

**MODIFICATION OF A PREVIOUSLY APPROVED EDWARDS AQUIFER
CONTRIBUTION ZONE PLAN**

FOR

**LAKE TRAVIS HIGH SCHOOL 2024
PHASE 1 & 2 IMPROVEMENTS**

Prepared for:

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

Prepared by:



CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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



November 2023



Lake Travis High School 2024 Phase 1 & 2 Improvements

MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN CHECKLIST



CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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

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

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

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

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

Attachment J - BMPs for Upgradient Stormwater

Attachment K - BMPs for On-site Stormwater

Attachment L - BMPs for Surface Streams

Attachment M - Construction Plans

Attachment N - Inspection, Maintenance, Repair and Retrofit Plan

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

Attachment P - Measures for Minimizing Surface Stream Contamination

Storm Water Pollution Prevention Plan (SWPPP)



Modification of a Previously Approved Contributing Zone Plan Checklist (continued)

Copy of Notice of Intent (NOI)

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

Application Fee Form (TCEQ-0574)

Copy of Check Payable to the "Texas Commission on Environmental Quality"

Core Data Form (TCEQ-10400)





Lake Travis High School 2024 Phase 1 & 2 Improvements

**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.: 600783575				
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			
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.)	—	<u>X</u>	—
Region (1 req.)	—	<u>X</u>	—
County(ies)	—	<u>X</u>	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek	<input type="checkbox"/> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek	<input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills	<input type="checkbox"/> Austin <input type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input type="checkbox"/> Georgetown <input type="checkbox"/> Jerrell <input type="checkbox"/> Leander <input type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <input type="checkbox"/> Round Rock

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

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

Jesse B. Malone, P.E.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

Date

11/21/2023

****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):



Lake Travis High School 2024 Phase 1 & 2 Improvements

**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: 11/21/2023

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.

<i>CZP Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Acres	<u>124.41</u>	<u>124.44</u>
Type of Development	<u>Educational</u>	<u>Educational</u>
Number of Residential Lots	<u>N/A</u>	<u>N/A</u>
Impervious Cover (acres)	<u>39.17</u>	<u>43.95</u>
Impervious Cover (%)	<u>31.20</u>	<u>35.32</u>
Permanent BMPs	<u>3</u>	<u>2</u>
Other	<u> </u>	<u>TSS removal provided for additional 5.22 acres of future impervious</u>
<i>AST Modification</i>		
<i>Summary</i>		
Number of ASTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>
<i>UST Modification</i>		
<i>Summary</i>		
Number of USTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>

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

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

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

**MODIFICATION OF A PREVIOUSLY APPROVED
CONTRIBUTING ZONE PLAN**

**ATTACHMENT A – ORIGINAL APPROVAL LETTER
AND APPROVED MODIFICATION LETTERS**

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, 2022. 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.

During Construction:

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 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.

Mr. Robert Winovitch

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April 14, 2022

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, 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.

During Construction:

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

**MODIFICATION OF A PREVIOUSLY APPROVED
CONTRIBUTING ZONE PLAN**

**ATTACHMENT B – NARRATIVE OF PROPOSED
MODIFICATION**

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 April 14, 2022, for Lake Travis High School. The original CZP was approved in 2019. As part of the previously approved modification plan, a batch detention pond was modified to provide additional volume to provide the required TSS removal for new impervious cover. The construction associated with that modification is complete.

This new modification includes two phases for construction at Lake Travis High School in 2024, Phase 1 and Phase 2. The first phase will change one of the BMPs, WQ Pond 1, from a sand filter system to a batch detention pond. Another existing BMP, WQ Pond 2, will be removed. The area previously draining to WQ Pond 2 will now be routed to WQ Pond 1.

WQ Pond 1 modifications and the removal of WQ Pond 2 will occur in the Phase 1 plans. Construction associated with Phase 2 plans will route some of runoff from WQ Pond 3 to WQ Pond 1. WQ Pond 1 has been sized to accommodate the additional area that was previously draining to WQ Ponds 2 & 3. WQ Pond 1 is providing the TSS removal for 10 acres of additional impervious cover than was being accounted for in the previously approved modified CZP.



Lake Travis High School 2024 Phase 1 & 2 Improvements

**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)



Lake Travis High School 2024 Phase 1 & 2 Improvements

**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: 11/21/2023

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 Independent School District

Mailing Address: 3324 Ranch Road. 620 S

City, State: Austin, TX

Telephone: 512-533-6000

Email Address: winovitchr@ltisdschools.org

Zip: 78738

Fax: 512-533-6001

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 City of Lakeway.

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: 19.83 Acres

14. Estimated projected population: N/A

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

Table 1 - Impervious Cover

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
Structures/Rooftops		÷ 43,560 =	
Parking		÷ 43,560 =	
Other paved surfaces	1,914,462	÷ 43,560 =	43.95
Total Impervious Cover	1,914,462	÷ 43,560 =	43.95

Total Impervious Cover 43.95 ÷ **Total Acreage** 124.44 X 100 = 35.3 % Impervious Cover

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

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

For Road Projects Only

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

N/A

18. Type of project:

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

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

- Concrete
- Asphaltic concrete pavement
- Other: _____

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

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

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

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

21. Pavement Area:

Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

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

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

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

A rest stop will not be included in this project.

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

N/A

26. Wastewater will be disposed of by:

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

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

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

Sewage Collection System (Sewer Lines):

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

Existing.

Proposed.

N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

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

Total x 1.5 = _____ Gallons

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

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

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

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

Table 3 - Secondary Containment

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

Total: _____ Gallons

30. Piping:

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

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

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

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

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

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

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

Site Plan Requirements

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

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

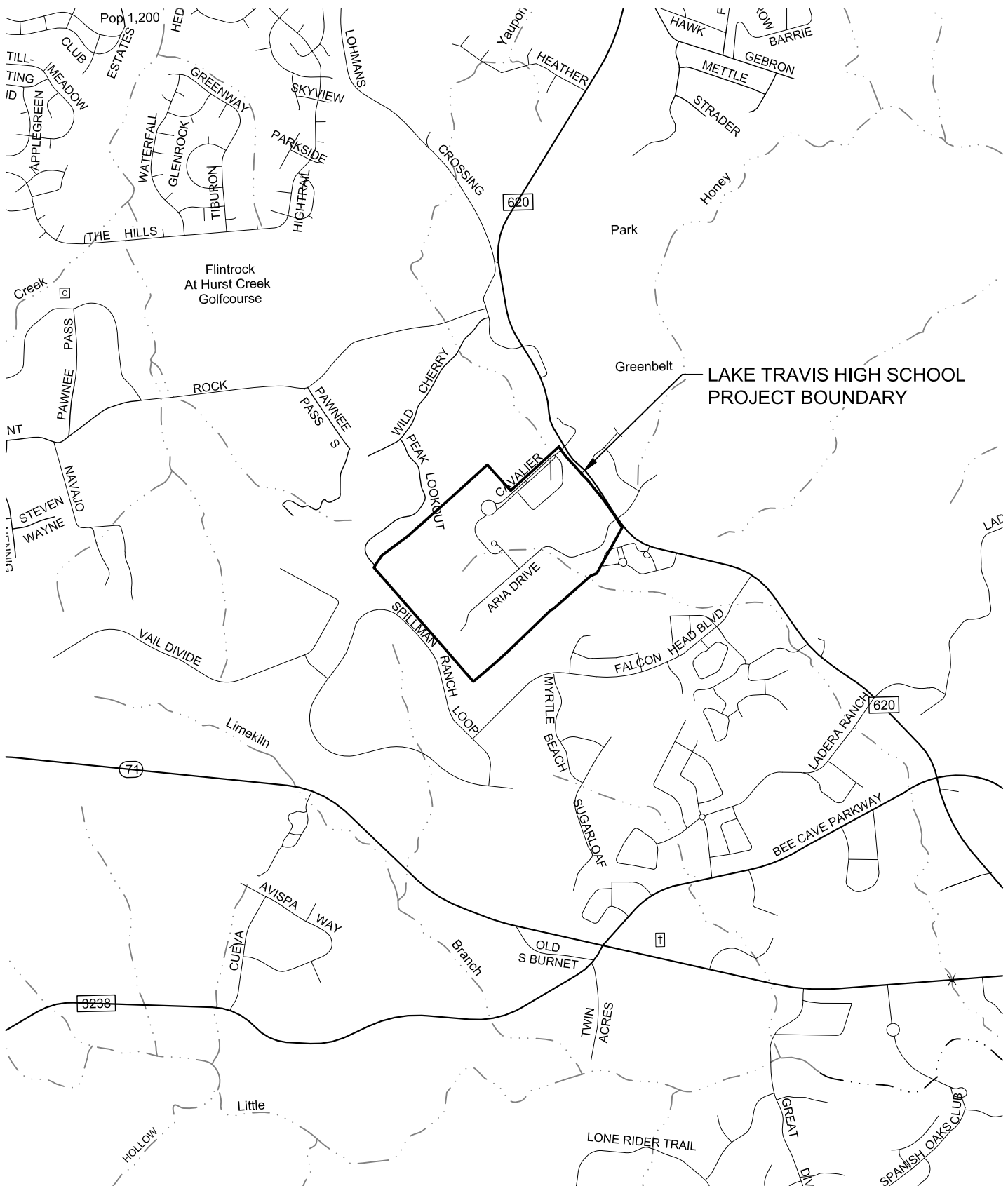
Administrative Information

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.

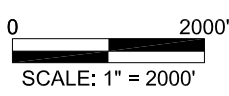


Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT A – ROAD MAP



LAKE TRAVIS HIGH SCHOOL
PROJECT BOUNDARY



ROAD MAP

MALONE★WHEELER
SINCE INC. 1995

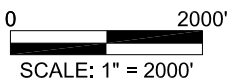
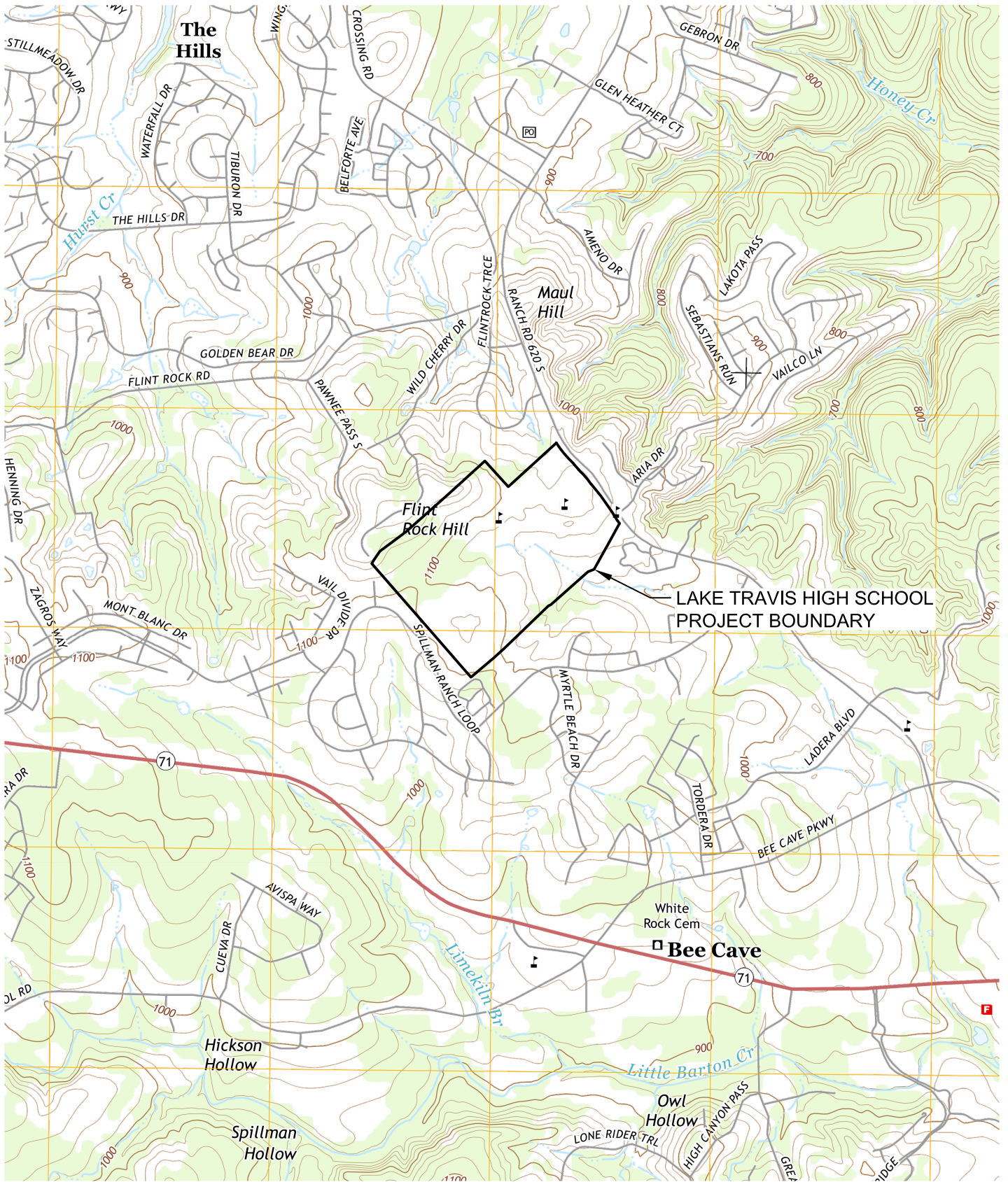
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT B – USGS QUADRANGLE MAP



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



Lake Travis High School 2024 Phase 1 & 2 Improvements

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 124.45 acres.

This application is a proposed modification to a previously modified Contributing Zone Plan approved April 14, 2022, for Lake Travis High School. The original CZP was approved in 2019. As part of the previously approved modification plan, a batch detention pond was modified to provide additional volume to provide the required TSS removal for new impervious cover. The construction associated with that modification is complete.

This new modification includes two phases for construction at Lake Travis High School in 2024, Phase 1 and Phase 2. The first phase will change one of the BMPs, WQ Pond 1, from a sand filter system to a batch detention pond. Another existing BMP, WQ Pond 2, will be removed. The area previously draining to WQ Pond 2 will now be routed to WQ Pond 1.

WQ Pond 1 modifications and the removal of WQ Pond 2 will occur in the Phase 1 plans. Construction associated with Phase 2 plans will route some of runoff from WQ Pond 3 to WQ Pond 1. WQ Pond 1 has been sized to accommodate the additional area that was previously draining to WQ Ponds 2 & 3. WQ Pond 1 is providing the TSS removal for 10 acres of additional impervious cover than was being accounted for in the previously approved modified CZP.

Lake Travis High School 2024 Phase 1 & Phase 2 plans propose a total of 4.78 acres of impervious cover. An additional 5.22 acres of future impervious cover is accounted for in this plan. The previously approved modified CZP had a TSS removal of 12,943 lbs. This updated plan provides a TSS removal of 21,647 lbs.



Lake Travis High School 2024 Phase 1 & 2 Improvements

**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 asphalt pavement drives & parking lots, concrete sidewalks, storm drainage structures, driveways and detention structures 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, drives and parking lots 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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

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



CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT E - Volume and Character of Stormwater

Following the 2024 Improvement projects there will be 43.95 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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

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



Lake Travis High School 2024 Phase 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT F – Suitability Letter from Authorized Agent

Not Applicable to this project.

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

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



CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT G – Alternative Secondary Containment Methods

Not Applicable to this project.



Lake Travis High School 2024 Phase 1 & 2 Improvements

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



Lake Travis High School 2024 Phase 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT H – AST Containment Structure Drawings

Not Applicable to this project.

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

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



Lake Travis High School 2024 Phase 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT I – 20% or Less Impervious Cover Declaration

Not Applicable to this project.

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Firm Registration No. 786 ★ www.malonewheeler.com



Lake Travis High School 2024 Phase 1 & 2 Improvements

**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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

**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:

- One proposed and one existing batch detention pond 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

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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

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 and seeding. These BMPs will mitigate pollution and sedimentation from being conveyed offsite or downstream to surface streams.

Permanent BMPs to be implemented for the proposed improvements are one existing and one proposed batch detention pond & two existing sand filter systems. These BMPs will permanently mitigate pollution and sediments from being conveyed offsite or downstream to surface streams.



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION ATTACHMENT M – CONSTRUCTION PLANS



CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT M – Construction Plans

The construction plans and design calculations for the modification of 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.

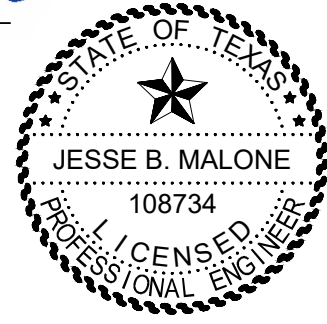
ENGINEER'S CERTIFICATION:

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 THE CITY OF LAKEWAY AND OTHER FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS IN EFFECT ON THIS DATE.

SUBMITTED FOR APPROVAL BY MALONE/WHEELER, INC.

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

9/29/2023 DATE



REVIEWED BY:

CODE OFFICIAL: PLANNING, DEVELOPMENT & CODE ENFORCEMENT DEPARTMENT DATE

CITY OF LAKEWAY ENGINEER DATE

CITY OF LAKEWAY SITE DEVELOPMENT PERMIT NUMBER

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 DATE

Table with 4 columns: Slope Category, Gross Site Area Acres, Allowable Percentage, Net Site Area Acres. Totals: 155.74 Gross Site Area, 142.13 Net Site Area.

Table with 3 columns: Item, Acres, Square Feet (Sq. Ft.). Rows for Existing, Proposed, and Total Impervious Cover.

Table with 4 columns: Allowable, Existing, Proposed, Total Impervious Cover/Net Site Area Calculations.

Table with 10 columns: 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.

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.

CONSTRUCTION PLANS

FOR

LAKE TRAVIS HIGH SCHOOL 2024

PHASE 1

3324 RANCH RD 620 SOUTH, AUSTIN TEXAS 78738

SHEET INDEX

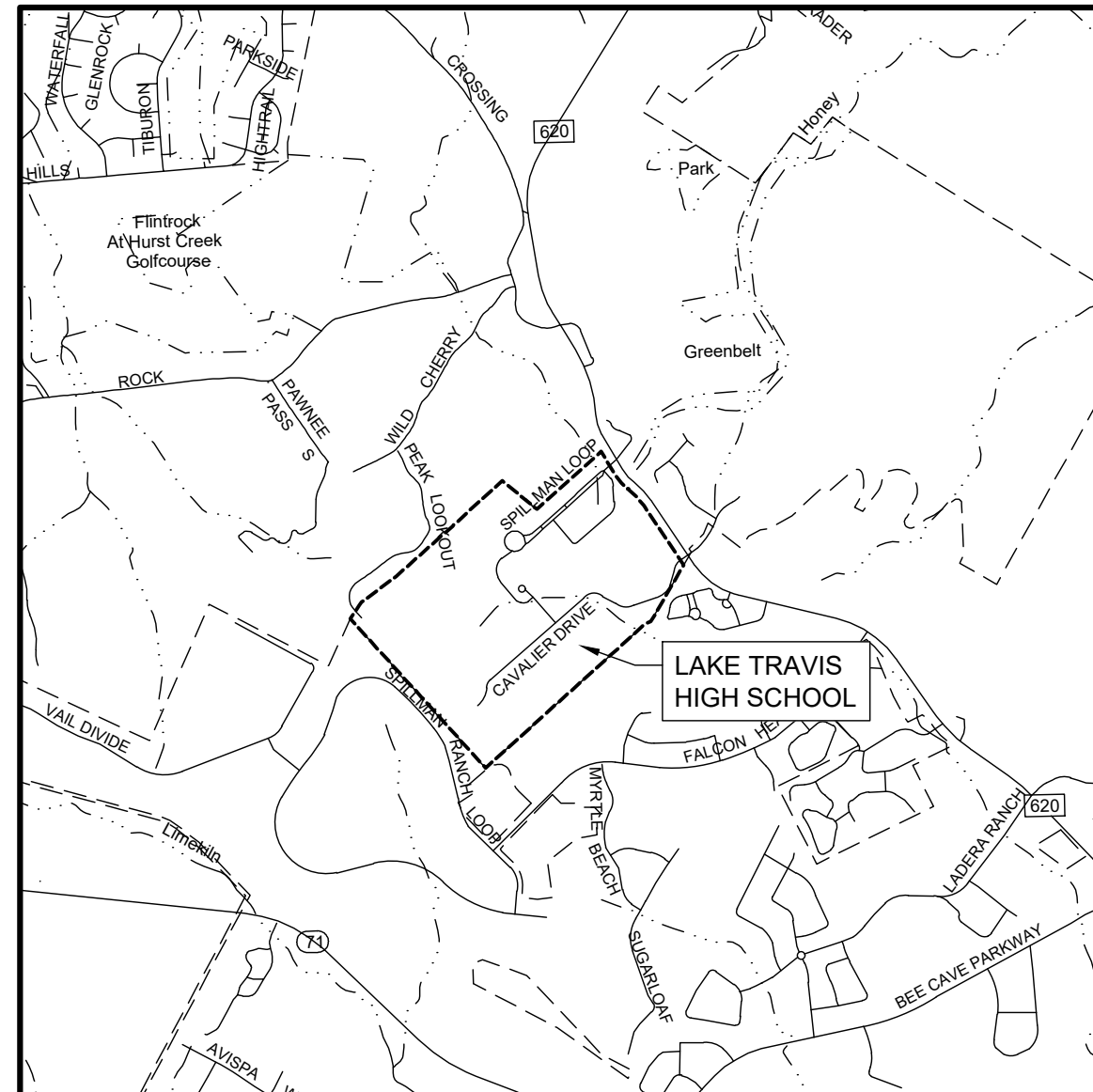
- 01 COVER
02 GENERAL NOTES
03 GENERAL NOTES
04 EXISTING CONDITIONS
05 DEMOLITION PLAN OVERALL
06 PARKING LOT DEMOLITION
07 SOFTBALL FIELD PARKING DEMOLITION
08 CAFETERIA PARKING DEMOLITION
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21 SOFTBALL FIELD EROSION & SEDIMENTATION CONTROL PLAN
22 CAFETERIA PARKING EROSION & SEDIMENTATION CONTROL PLAN
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38 WATER QUALITY POND 3 (1 OF 2)
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41 DETENTION POND 2 MODIFICATIONS PLAN
42 DETENTION POND 2 WEIR MODIFICATIONS
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50 ENLARGED PARKING LOT RESTORATION
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55 WL-A & WL-B PLAN & PROFILES
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58 STANDARD DETAILS
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61 LIGHTING PLAN
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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.

GENERAL PLAN NOTES:

- 1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF LAKEWAY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
2. THIS PROJECT IS PARTIALLY LOCATED IN THE LITTLE BARTON CREEK WATERSHED & THE YAUPON WATERSHED.
3. 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.
4. 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.
5. THE AREA WITHIN THE LIMITS OF CONSTRUCTION IS 10.69 ACRES. THE TOTAL DISTURBED AREA IS 10.69 ACRES.
6. A TPDES/SWPPP IS REQUIRED PRIOR TO STARTING CONSTRUCTION.
7. WATER, WASTEWATER AND POTABLE IRRIGATION IMPROVEMENTS ARE PERMITTED BY WCID 17.
8. THIS PROJECT IS PARTIALLY LOCATED WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE.
9. THIS SITE PLAN HAS BEEN APPROVED BY TRAVIS COUNTY TNR UNDER PERMIT NUMBER
10. THE BERM AND OUTLET STRUCTURE FOR EXISTING DETENTION POND 2 HAS BEEN ADDED TO THE TEXAS INVENTORY OF DAMS AND ASSIGNED THE IDENTIFIER TX09744.
11. DOWNSTREAM RECEIVING WATERS: LAKE TRAVIS (SEGMENT ID 1404) & BARTON CREEK (SEGMENT ID 1430)
12. 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.
13. ALL STRUCTURAL FIELD CHANGES REQUIRE A PLAN REVISION APPROVAL IN WRITING BEFORE COMMENCEMENT OF THE WORK.



LOCATION MAP

SCALE: 1" = 2000'

DATE OF SUBMITTAL: SEPTEMBER 29, 2023

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

SURVEYOR: 4WARD LAND SURVEYING, LLC P.O. BOX 90876 AUSTIN, TX 78709 (512) 537-2384

ELECTRICAL- MEP ENGINEERING 1120 S CAPITAL OF TEXAS HWY. AUSTIN, TX 78746 (512) 306-9650

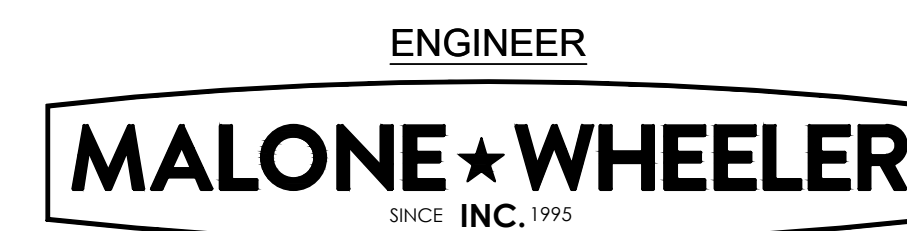
STRUCTURAL: PICKETT KELM & ASSOCIATES 4100 DUVAL RD. AUSTIN, TX 78759 (512) 345-5538

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

ARCHITECT: PFLUGER 209 EAST RIVERSIDE DRIVE AUSTIN, TX 78704 (512) 476-4040

I, _____ HEREBY ACKNOWLEDGE THAT I HAVE READ AND UNDERSTOOD PLAN NOTES ON ALL ATTACHED DRAWINGS REGARDING MY RESPONSIBILITIES AS OWNER. DATE: _____ OWNER

I, _____ AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING AND HEREBY CERTIFY THAT THE NOTES, INFORMATION, AND PROVISIONS CONTAINED ON THIS PLAN COMPLY WITH THE SURVEY REQUIREMENTS OF THE DEVELOPMENT ORDINANCES ADOPTED BY THE CITY OF LAKEWAY, AND WAS PREPARED FROM A SURVEY MADE ON THE GROUND UNDER MY DIRECT SUPERVISION. DATE: _____ REGISTERED PROFESSIONAL LAND SURVEYOR REGISTRATION NO. 5057 DELTA SURVEY GROUP, INC. 8213 BRODIE LANE, SUITE 102 AUSTIN, TX 78745



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

CONSTRUCTION PLANS

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1

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...

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...

- 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...

- 1. THE SWP3 SITE NOTEBOOK FOR THE PROJECT, INCLUDING REVIEW OF COMPLETENESS, SIGNATURES, CONSISTENCY WITH THE APPROVED CONSTRUCTION AND ESC PLANS...
2. THE SEQUENCE OF CONSTRUCTION AND ESC PLAN IMPLEMENTATION; SEDIMENT BASIN CONSTRUCTION SCOPE PRIOR TO FULL SITE GRADING...
3. SEDIMENT CONTROLS; PHASING OF PERIMETER AND INTERIOR SEDIMENT CONTROLS DURING CONSTRUCTION...
4. ADEQUACY OF THE FIRST ESC PHASE AND FUTURE ESC PHASES TO ADDRESS SPECIFIC SITE CONDITIONS...
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...
9. INSPECTION AND PREPARATION OF THE WEEKLY SWP3 INSPECTION REPORTS BY THE PRIMARY OPERATOR'S QUALIFIED INSPECTOR...
10. OBSERVATION AND DOCUMENTATION OF EXISTING SITE CONDITIONS ADJACENT TO THE LIMITS OF CONSTRUCTION BEFORE CONSTRUCTION...
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...
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:

Table with 3 columns: PAVEMENT TYPE, TRAFFIC DESIGN INDEX, DESCRIPTION. Includes rows for Parking Areas (Passenger Vehicles Only) and Primary Driveways.

Table for FLEXIBLE PAVEMENT SYSTEM. Columns: COMPONENT, MATERIAL THICKNESS (INCHES) DI-1, DI-3. Rows include Asphaltic Concrete, Crushed Limestone Base, and Moisture Conditioned Subgrade.

Table for RIGID PAVEMENT SYSTEM. Columns: COMPONENT, MATERIAL THICKNESS (INCHES) DI-1, DI-3. Rows include Reinforced Concrete (PCC) and Moisture Conditioned Subgrade.

MOISTURE CONDITIONED SUBGRADE
AFTER PROOF-ROLLING, AND JUST PRIOR TO PLACEMENT OF FILL, THE EXPOSED SOIL SUBGRADE IN ALL CONSTRUCTION AREAS (EXCEPT LANDSCAPING) SHOULD BE EVALUATED FOR MOISTURE AND DENSITY THROUGH FIELD DENSITY TESTING...

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 OUTCROPS). SALVAGED TOPSOIL FROM THE SITE SHOULD BE USED WHENEVER POSSIBLE...
B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

Table with 4 columns: DATES, CLIMATE, SPECIES (lb/acre), and values. Shows seeding rates for different seasons and species like Purple Three-Awn, Sideoats Grama, etc.

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). ACKFIER, 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 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.

D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1/2 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

Table with 2 columns: WCID Inspectors, Phone Numbers. Lists contact info for Juan Sanchez, Dany Ramirez, Jesus Herrera, and Storm Inspector.

- 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 M54 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 NOTES
A. LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR AS A RESULT OF THE CONTRACTOR FAILURE TO LOCATE AND PRESERVE ALL UTILITIES.
B. ALL EASEMENTS ARE REQUIRED TO BE STAKED-OUT.
C. THE BACK OF THE CURB AND THE FINISHED GRADE ARE REQUIRED TO BE STAKED-OUT.
D. ALL BENDS, GATE VALVES, TEES, AND REDUCERS MUST BE RESTRAINED.
E. ALL MAINS MUST HAVE A MAXIMUM 48 INCHES OF COVER FROM FINISHED GRADE TO TOP OF PIPE.
F. WATER LINE PIPE MUST BE C-900 DR-14 BLUE IN COLOR OR DUCTILE IRON PIPE CLASS 350.
G. ALL FIRE LINES MUST BE DUCTILE IRON PIPE CLASS 350.
H. GAS MAINS MUST BE INSTALLED BEFORE WATER SERVICES ARE PUT IN.
I. ALL DRY UTILITIES (IE. ELECTRICAL, TELECOMMUNICATIONS, ETC.) MUST MAINTAIN A 5-FOOT HORIZONTAL SEPARATION (STARTING AT THE PIPE'S WALL) FROM WCID #17 APPURTENANCES.
J. WHEN WATER/WASTEWATER UTILITIES CROSS ANY DRY UTILITY, A 2-FOOT VERTICAL SEPARATION (STARTING AT THE PIPE'S WALL) MUST BE MAINTAINED FROM WCID #17 APPURTENANCES.
K. THE WATER SERVICE SHOULD BE INSTALLED ONE FOOT AWAY FROM THE PROPERTY WITHIN AN EASEMENT.
L. FIRE HYDRANTS MUST HAVE A 7-FOOT SEPARATION FROM ANY STORM SEWER INLETS.
M. WATER LINES WITH 10% GRADE OR MORE MUST HAVE CONCRETE RETARDS EVERY 20 FEET PER WCID #17 DETAILS.
N. NO WATER UTILITIES THROUGH ANY ISLANDS.

- WASTEWATER NOTES
A. LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR AS A RESULT OF THE CONTRACTOR FAILURE TO LOCATE AND PRESERVE ALL UTILITIES.
B. ALL EASEMENTS ARE REQUIRED TO BE STAKED-OUT.
C. THE BACK OF THE CURB AND THE FINISHED GRADE ARE REQUIRED TO BE STAKED-OUT.
D. ALL DRY UTILITIES (IE. ELECTRICAL, TELECOMMUNICATIONS, ETC.) MUST MAINTAIN A 5-FOOT HORIZONTAL SEPARATION (STARTING AT THE PIPE'S WALL) FROM WCID #17 APPURTENANCES.
E. WHEN WATER/WASTEWATER UTILITIES CROSS ANY DRY UTILITY, A 2-FOOT VERTICAL SEPARATION (STARTING AT THE PIPE'S WALL) MUST BE MAINTAINED FROM WCID #17 APPURTENANCES.
F. ALL GRAVITY WASTEWATER UTILITIES AND SERVICES MUST BE GREEN COLOR PIPE ONLY AND SDR-26.
G. WASTEWATER SERVICE MUST HAVE A 7-FOOT SEPARATION FROM ANY STORM SEWER INLETS.
H. BOLT DOWN RING AND COVERS ON ALL MANHOLES THAT ARE NOT IN THE PAVEMENT ARE REQUIRED.
I. MANHOLES NOT IN THE ROAD-WAY MUST BE 1 FOOT ABOVE FINISHED GRADE.
J. NO WASTEWATER UTILITIES THROUGH ANY ISLANDS.

- IRRIGATION NOTES:
WCID #17 WILL NOT SIGN OFF ON IRRIGATION PLANS AS PART OF THE SITE PLAN. IRRIGATION PLANS MUST BE SUBMITTED SEPARATELY TO CSR PERMITS COORDINATOR, NANCY CARDOSO, AT NCARDOSO@WCID17.ORG, 512-266-1111 EXT. 110. SUBMISSIONS MUST INCLUDE:
1) IRRIGATION PERMIT APPLICATION. A COPY OF THE FORM CAN BE OBTAINED THROUGH THE DISTRICT'S WEBSITE, HTTPS://WWW.WCID17.ORG/FORMS/BUILDERS/NUMBERS
2) LIST OF HYDRAULICS
3) LEGEND
4) ANNUAL WATER BUDGET. (ADD THIS NOTE TO THE IRRIGATION SHEETS IN SITE PLANS IN BOLD RED LETTERS)

LANDSCAPE NOTE: TREES MUST BE 7.5 FEET AWAY FROM ALL WCID #17 APPURTENANCES. (IE. WATER, WASTEWATER, METERS, ETC.)

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

GENERAL NOTES

MALONE WHEELER INC. logo and contact information: 5113 Southwest Pkwy, Suite 240, Austin, Texas 78735. Phone: (512) 899-0601. Fax: (512) 899-0655. Firm Registration No. F-786.

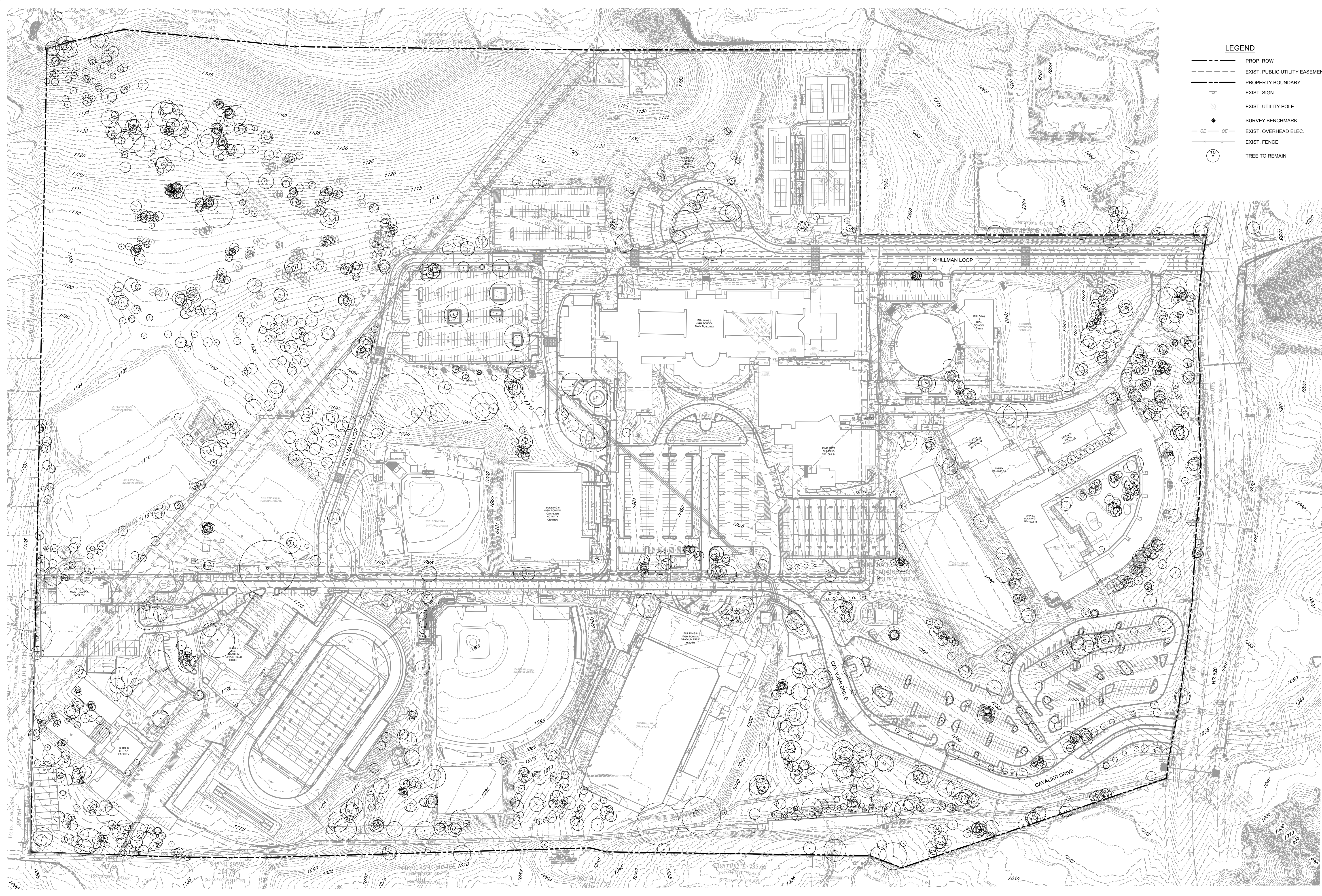


DESIGN BY: SGC
CHECKED BY: SGC
APPROVED BY: JBM
DATE: 9/29/2023

SHEET 03 OF 62

F:\UTSD\OVERLAP\PROJECTS\2-105-AUS-UTSD HS 2023\PRKNGLOT\DRAWINGS\PLAN\BET02_GENERAL NOTES.DWG, 9/29/2023, ANTHONY VINCENT

F:\UTSD OVERALL\PROJECTS\2-105-AUS LTSD HS 2023 PRKNG\DRAWINGS\PLANS\104 EXISTING CONDITIONS DWG_9/29/2023_ ANTHONY VINCENT



- LEGEND**
- PROP. ROW
 - - - - EXIST. PUBLIC UTILITY EASEMENT
 - PROPERTY BOUNDARY
 - EXIST. SIGN
 - EXIST. UTILITY POLE
 - ◆ SURVEY BENCHMARK
 - - - - EXIST. OVERHEAD ELEC.
 - EXIST. FENCE
 - TREE TO REMAIN

NO.	DATE	REVISION	BY

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

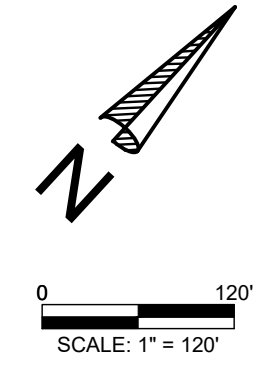
EXISTING CONDITIONS

MALONE ★ WHEELER
INC. 1976

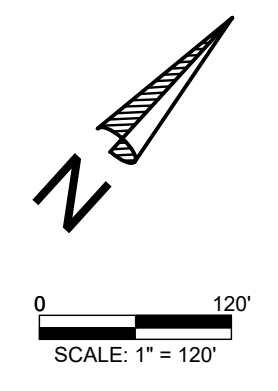
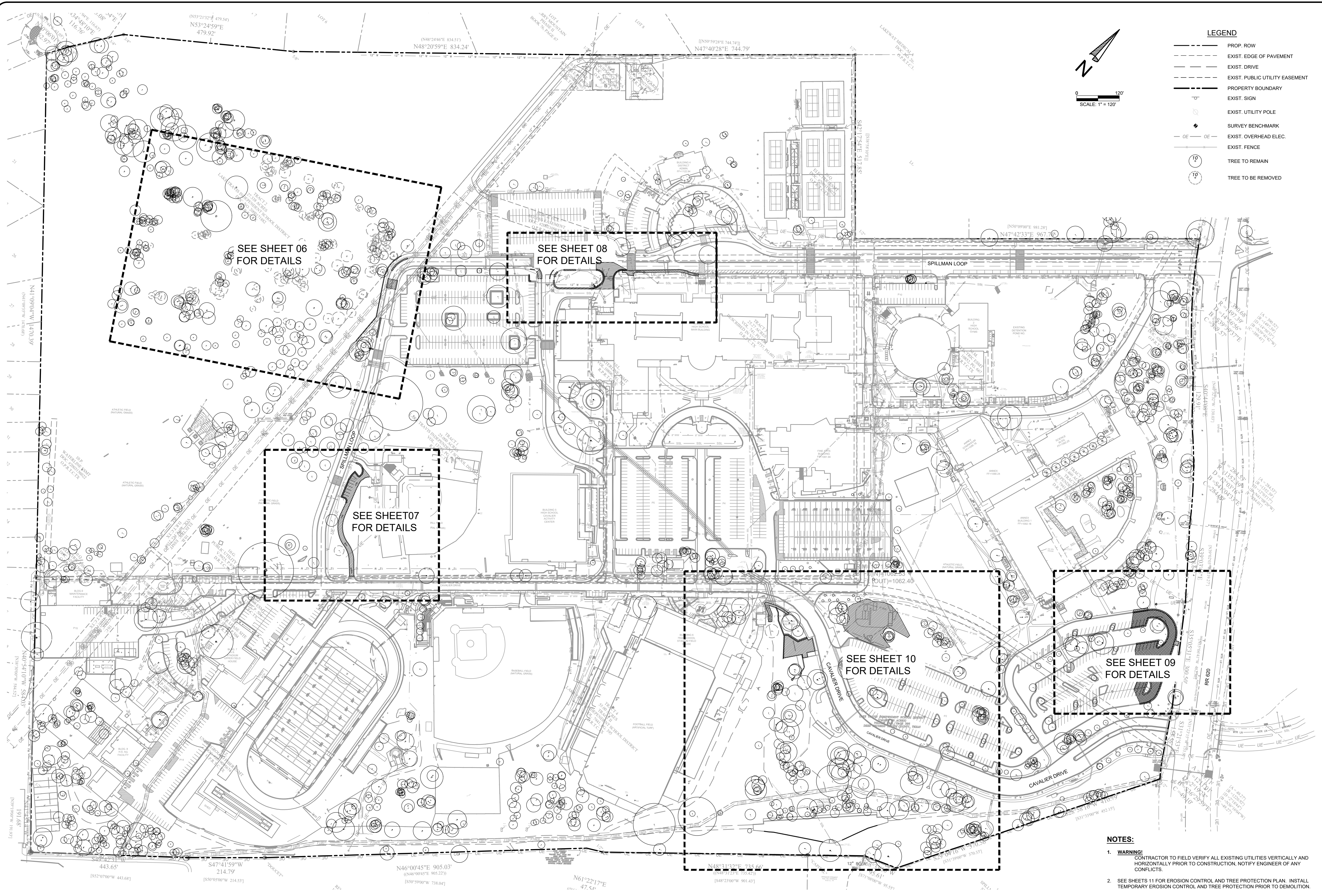
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 240
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023



FILED OVERALL PROJECTS: 2-105-AUS-175D HS 2023 PRKNGLOTDRAWINGS\PLANSHEET104 DEMOLITION PLAN.DWG 9/29/2023, ANTHONY VINCENT



LEGEND	
	PROP. ROW
	EXIST. EDGE OF PAVEMENT
	EXIST. DRIVE
	EXIST. PUBLIC UTILITY EASEMENT
	PROPERTY BOUNDARY
	EXIST. SIGN
	EXIST. UTILITY POLE
	SURVEY BENCHMARK
	EXIST. OVERHEAD ELEC.
	EXIST. FENCE
	TREE TO REMAIN
	TREE TO BE REMOVED

SEE SHEET 06 FOR DETAILS

SEE SHEET 08 FOR DETAILS

SEE SHEET 07 FOR DETAILS

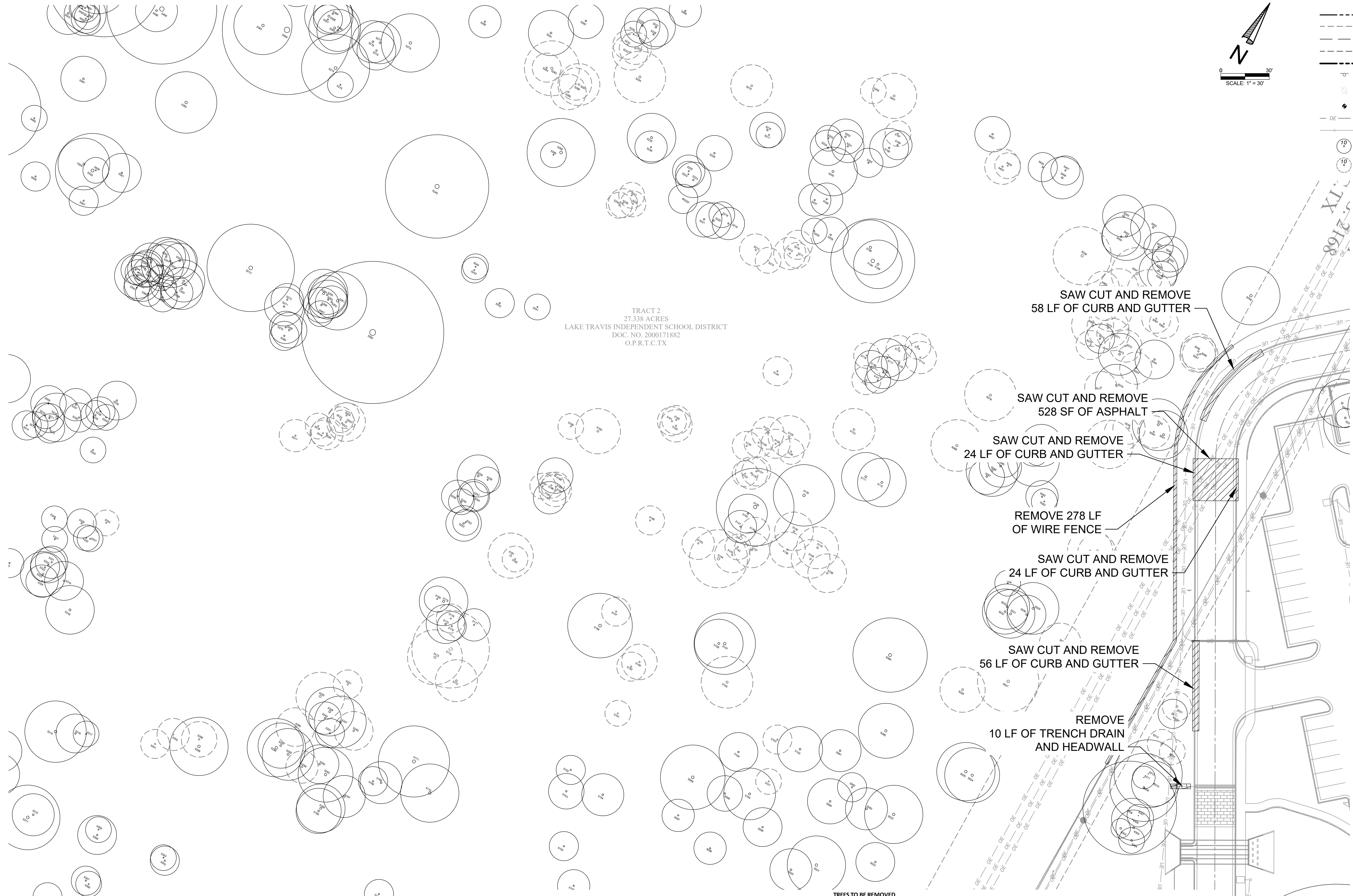
SEE SHEET 10 FOR DETAILS

SEE SHEET 09 FOR DETAILS

- NOTES:**
- WARNING!** CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
 - SEE SHEETS 11 FOR EROSION CONTROL AND TREE PROTECTION PLAN. INSTALL TEMPORARY EROSION CONTROL AND TREE PROTECTION PRIOR TO DEMOLITION.
 - CONTACT UTILITY COMPANIES PRIOR TO REMOVAL OF ANY ON-SITE UTILITY IMPROVEMENTS. COORDINATE SHUT-OFF OF SERVICE.
 - COMPLY WITH ALL APPLICABLE UTILITY COMPANY REGULATIONS AS WELL AS CITY, STATE, AND / OR FEDERAL REGULATIONS.
 - COMPLY WITH APPLICABLE "GENERAL CONSTRUCTION NOTES". SEE SHEET 02.
 - A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
 - RELOCATE/REPLACE EXISTING SIGNS AS NEEDED.
 - COORDINATE LANDSCAPING & IRRIGATION WITH LANDSCAPE ARCHITECT.

BY			
REVISION			
DATE			
NO.			
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1			
3324 RANCH ROAD 620 SOUTH			
DEMOLITION PLAN OVERALL			
MALONE ★ WHEELER			
<small>CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT</small> <small>5113 Southwest Pkwy, Suite 260</small> <small>Austin, Texas 78735</small> <small>Phone: (512) 899-0601 Fax: (512) 899-0655</small> <small>Firm Registration No. F-786</small>			
DESIGN BY:	SGC		
CHECKED BY:	SGC		
APPROVED BY:	JBM		
DATE:	9/29/2023		
SHEET 05			
OF 62			

F:\UTLSD\OVERALL\PROJECTS\2-105-AUS-UTLSD-HS-2023\PRKNGLOTDRAWINGS\PLANE104-DEMOLITION.PLAN.DWG 9/29/2023, ANTHONY VINCENT



TRACT 2
27.338 ACRES
LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT
DOC. NO. 2000171882
O.P.R.T.C.TX

LEGEND

---	PROP. ROW
- - - -	EXIST. EDGE OF PAVEMENT
---	EXIST. DRIVE
---	EXIST. PUBLIC UTILITY EASEMENT
---	PROPERTY BOUNDARY
---	EXIST. SIGN
○	EXIST. UTILITY POLE
◆	SURVEY BENCHMARK
— OE — OE —	EXIST. OVERHEAD ELEC.
---	EXIST. FENCE
○	TREE TO REMAIN
○	TREE TO BE REMOVED

TREES TO BE REMOVED					
NUMBER	DESCRIPTION	NUMBER	DESCRIPTION	NUMBER	DESCRIPTION
5026	14" RED OAK	5064	12" LIVE OAK	5113	10" LIVE OAK
5027	19" RED OAK	5065	10" LIVE OAK	5114	8" LIVE OAK
5028	13" CEDAR ELM 9-7	5066	9" LIVE OAK	5115	8" LIVE OAK
5035	14" LIVE OAK	5067	9" LIVE OAK	5118	8" LIVE OAK
5036	12" LIVE OAK	5068	13" LIVE OAK	5144	18" LIVE OAK 14-8
5037	15" LIVE OAK	5069	13" LIVE OAK	5122	9" LIVE OAK
5038	11" LIVE OAK	5070	13" LIVE OAK	5123	13" LIVE OAK
5039	10" LIVE OAK	5071	10" LIVE OAK	5146	9" SHIN OAK
5040	10" LIVE OAK	5072	10" LIVE OAK	5124	9" SHIN OAK
5043	10" LIVE OAK	5075	9" LIVE OAK	5125	13" LIVE OAK
5045	11" LIVE OAK	5077	10" LIVE OAK	5126	8" LIVE OAK
5046	11" LIVE OAK	5078	16" LIVE OAK	5127	10" LIVE OAK
5047	11" LIVE OAK	5079	9" LIVE OAK	5128	9" LIVE OAK
5056	18" LIVE OAK	5088	16" CEDAR ELM 11-10	5173	13" LIVE OAK
5057	16" CEDAR ELM	5101	8" SHIN OAK	5130	9" LIVE OAK
5060	14" LIVE OAK	5103	9" SHIN OAK	5174	24" RED OAK
5061	8" LIVE OAK	5105	16" CEDAR ELM 8-7	5178	9" LIVE OAK
5062	9" LIVE OAK	5108	12" LIVE OAK	5131	9" LIVE OAK
5063	9" LIVE OAK	5109	12" LIVE OAK	5132	10" LIVE OAK
		5110	13" CEDAR ELM	5133	8" LIVE OAK
				5135	12" LIVE OAK
				5136	9" LIVE OAK
				5137	11" LIVE OAK
				5186	8" LIVE OAK
				5187	8" LIVE OAK
				5189	8" LIVE OAK
				5190	14" LIVE OAK 10-8
				5191	9" LIVE OAK
				5192	9" LIVE OAK
				5193	10" LIVE OAK
				5197	8" LIVE OAK
				5210	9" LIVE OAK
				5211	8" LIVE OAK
				5212	10" LIVE OAK
				5213	10" LIVE OAK 8-4
				5214	8" CEDAR
				5215	13" LIVE OAK
				5231	10" LIVE OAK
				5232	9" LIVE OAK
				5233	11" LIVE OAK
				5234	16" LIVE OAK
				5237	8" LIVE OAK
				5238	8" CEDAR
				5239	9" LIVE OAK
				5240	8" LIVE OAK
				5246	12" LIVE OAK
				5250	15" LIVE OAK
				5251	9" LIVE OAK
				5283	17" LIVE OAK 12-9
				5284	9" CEDAR
				5285	11" LIVE OAK
				5286	10" LIVE OAK
				5287	13" LIVE OAK 10-6
				5290	12" LIVE OAK
				5294	10" RED OAK
				5299	11" LIVE OAK 10"
				5300	10" LIVE OAK
				5301	9" LIVE OAK
				5302	9" SHIN OAK
				5303	11" LIVE OAK
				5304	8" CEDAR
				5400	8" LIVE OAK
				5401	14" LIVE OAK
				5403	11" LIVE OAK
				5404	8" LIVE OAK
				5517	10" LIVE OAK
				5518	8" LIVE OAK
				5519	8" LIVE OAK
				5520	10" LIVE OAK
				5521	8" LIVE OAK
				5522	12" LIVE OAK 8-7
				5523	8" LIVE OAK
				5524	8" LIVE OAK
				6004	14" SPANISH OAK
				6261	19" ELM
				6309	11" 10" LIVE OAK
				6310	14" LIVE OAK
				6311	7" LIVE OAK
				6312	12" 9" LIVE OAK
				6313	9" LIVE OAK
				6314	8" LIVE OAK
				6321	9" LIVE OAK

- NOTES:**
- WARNING!** CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
 - SEE SHEETS 11 FOR EROSION CONTROL AND TREE PROTECTION PLAN. INSTALL TEMPORARY EROSION CONTROL AND TREE PROTECTION PRIOR TO DEMOLITION.
 - CONTACT UTILITY COMPANIES PRIOR TO REMOVAL OF ANY ON-SITE UTILITY IMPROVEMENTS. COORDINATE SHUT-OFF OF SERVICE.
 - COMPLY WITH ALL APPLICABLE UTILITY COMPANY REGULATIONS AS WELL AS CITY, STATE, AND / OR FEDERAL REGULATIONS.
 - COMPLY WITH APPLICABLE "GENERAL CONSTRUCTION NOTES". SEE SHEET 02.
 - A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
 - RELOCATE/REPLACE EXISTING SIGNS AS NEEDED.
 - COORDINATE LANDSCAPING & IRRIGATION WITH LANDSCAPE ARCHITECT.

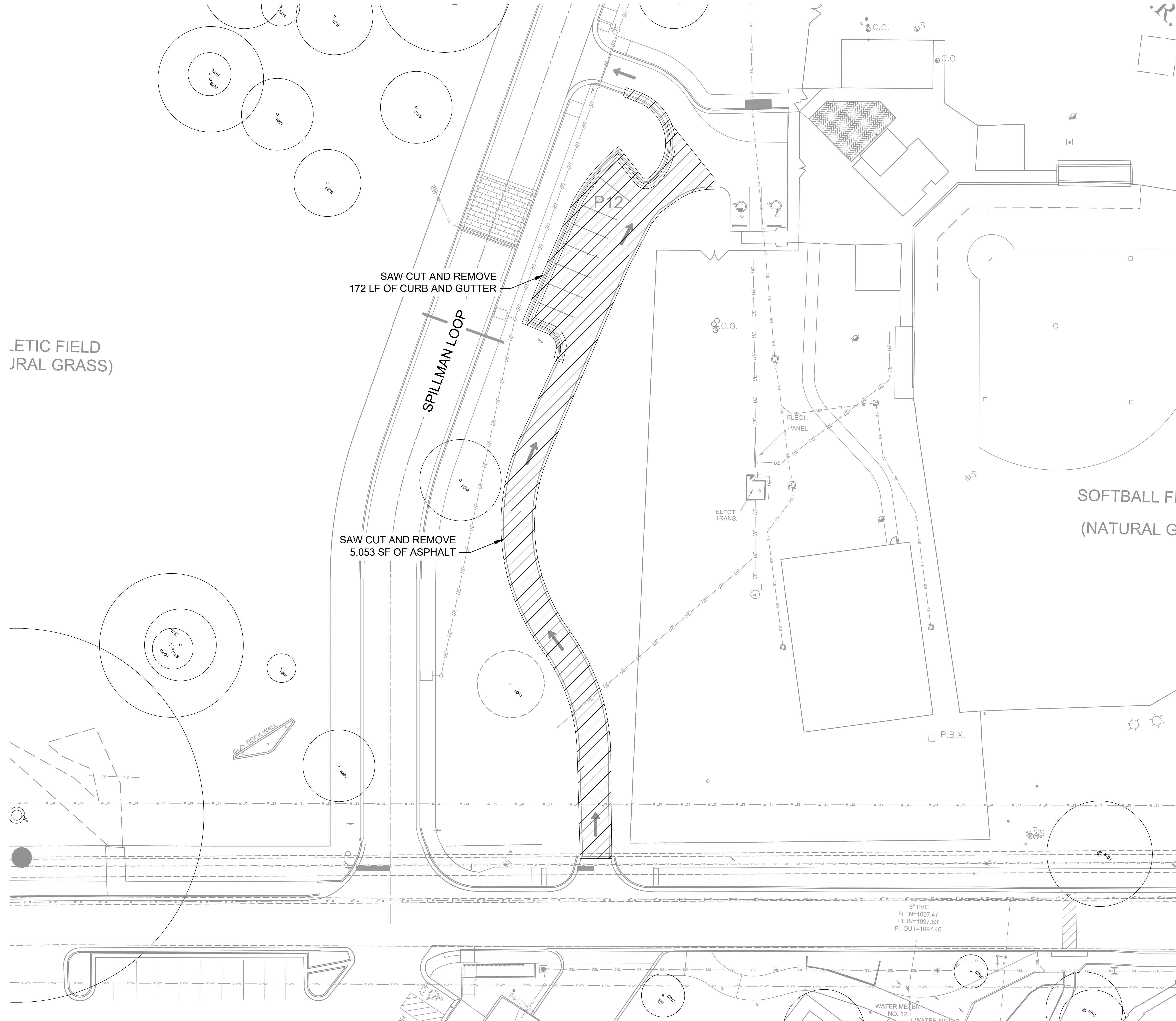
BY	
REVISION	
NO.	
DATE	

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

MALONE WHEELER
INC. SINCE 1976
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

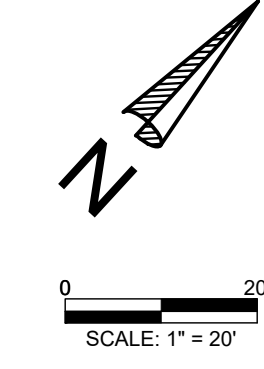


DESIGN BY: SGC
CHECKED BY: SGC
APPROVED BY: JBM
DATE: 9/29/2023



.ETIC FIELD
(RURAL GRASS)

SOFTBALL FIELD
(NATURAL GRASS)



LEGEND

- PROP. ROW
- EXIST. EDGE OF PAVEMENT
- EXIST. DRIVE
- EXIST. PUBLIC UTILITY EASEMENT
- PROPERTY BOUNDARY
- EXIST. SIGN
- EXIST. UTILITY POLE
- ◆ SURVEY BENCHMARK
- OE --- EXIST. OVERHEAD ELEC.
- EXIST. FENCE
- (with T) TREE TO REMAIN
- (with X) TREE TO BE REMOVED

NOTES:

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5. COMPLY WITH APPLICABLE "GENERAL CONSTRUCTION NOTES". SEE SHEET 02.
6. A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
7. RELOCATE/REPLACE EXISTING SIGNS AS NEEDED.
8. COORDINATE LANDSCAPING & IRRIGATION WITH LANDSCAPE ARCHITECT.

NO.	DATE	REVISION	BY

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

SOFTBALL FIELD PARKING DEMOLITION

MALONE ★ WHEELER
INC. SINCE 1976

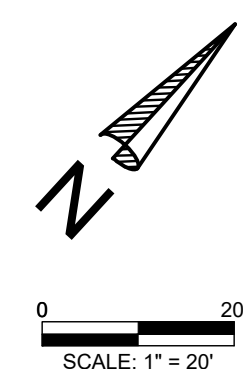
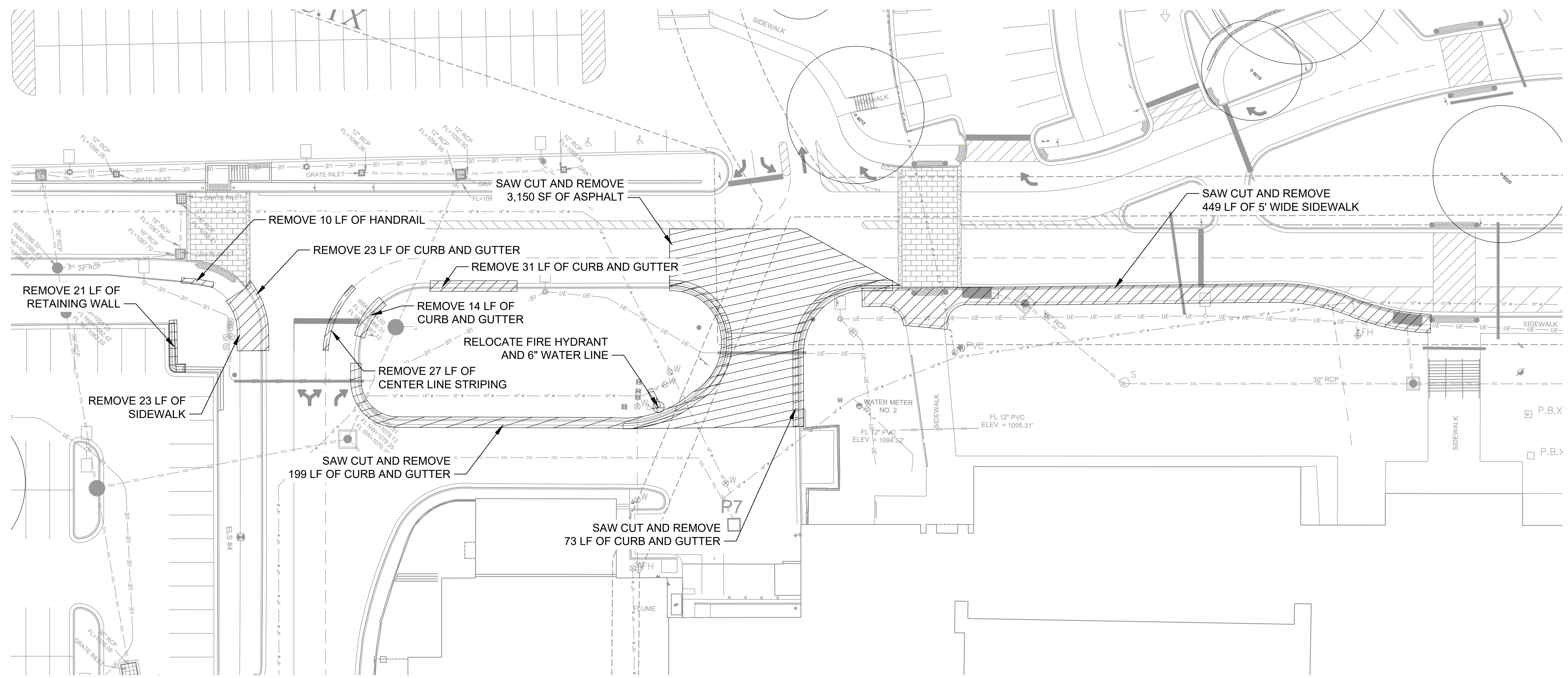
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
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Phone: (512) 899-0601 Fax: (512) 899-0655
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SHEET 07
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F:\UTISD OVERALL\PROJECTS\2-105-AUS LTSD HS 2023 PRKNGLOTDRAWINGS\PLAN\DWG 9/29/2023 ANTHONY VINCENT



- NOTES:**
- WARNING!** CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION, NOTIFY ENGINEER OF ANY CONFLICTS.
 - SEE SHEETS 11 FOR EROSION CONTROL AND TREE PROTECTION PLAN. INSTALL TEMPORARY EROSION CONTROL AND TREE PROTECTION PRIOR TO DEMOLITION.
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- LEGEND**
- PROP. ROW
 - EXIST. EDGE OF PAVEMENT
 - EXIST. DRIVE
 - EXIST. PUBLIC UTILITY EASEMENT
 - PROPERTY BOUNDARY
 - EXIST. SIGN
 - EXIST. UTILITY POLE
 - ◆ SURVEY BENCHMARK
 - OE --- EXIST. OVERHEAD ELEC.
 - EXIST. FENCE
 - (with T) TREE TO REMAIN
 - (with X) TREE TO BE REMOVED

NO.	DATE	REVISION	BY

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

CAFETERIA PARKING DEMOLITION

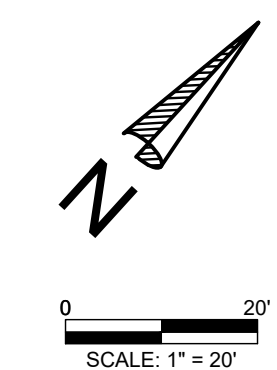
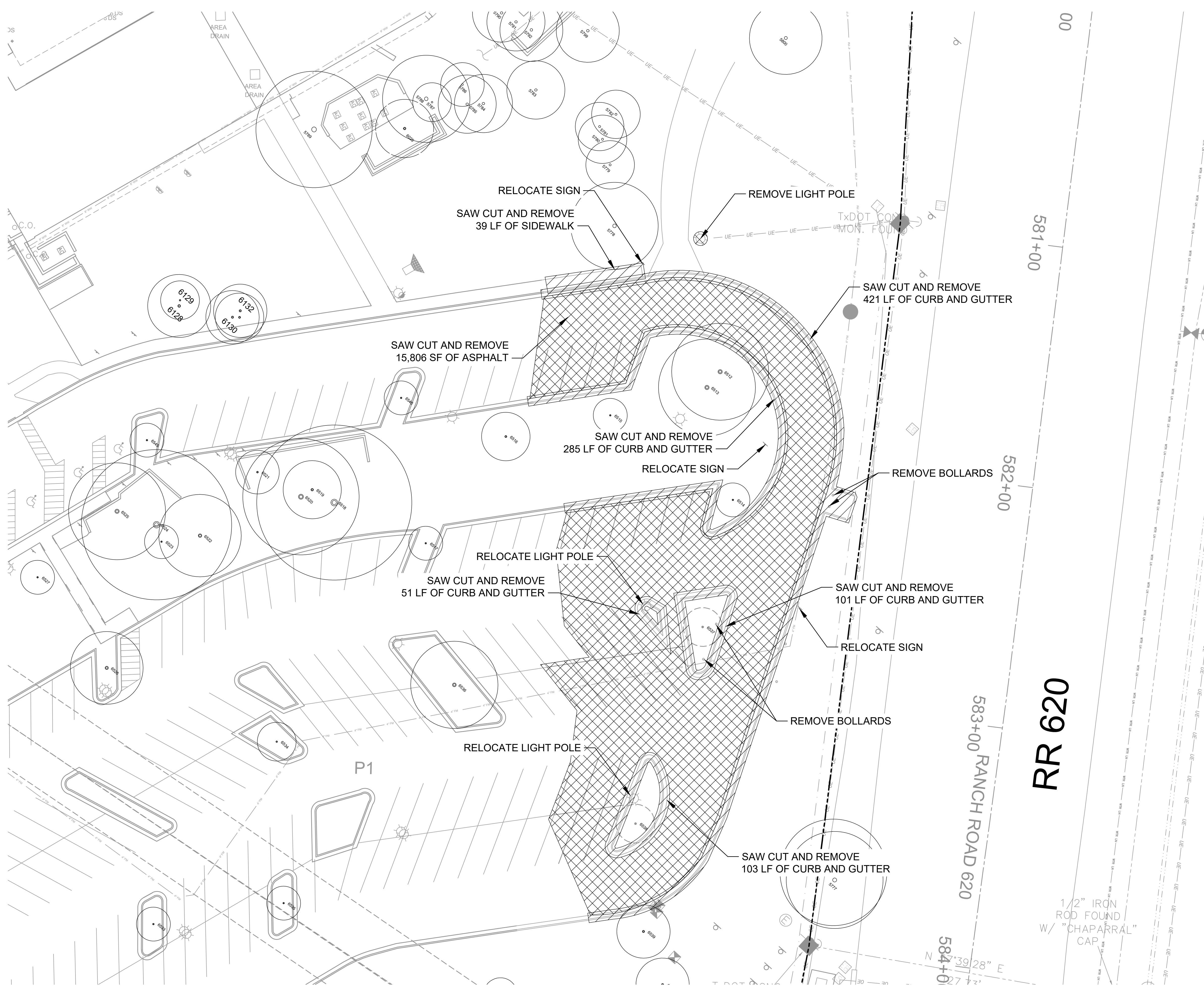
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LEGEND

	PROP. ROW
	EXIST. EDGE OF PAVEMENT
	EXIST. DRIVE
	EXIST. PUBLIC UTILITY EASEMENT
	PROPERTY BOUNDARY
	EXIST. SIGN
	EXIST. UTILITY POLE
	SURVEY BENCHMARK
	EXIST. OVERHEAD ELEC.
	EXIST. FENCE
	TREE TO REMAIN
	TREE TO BE REMOVED

- NOTES:**
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NO.	DATE	REVISION	BY

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

ANNEX BLDG 1 PARKING DEMOLITION

MALONE ★ WHEELER
SINCE 1976

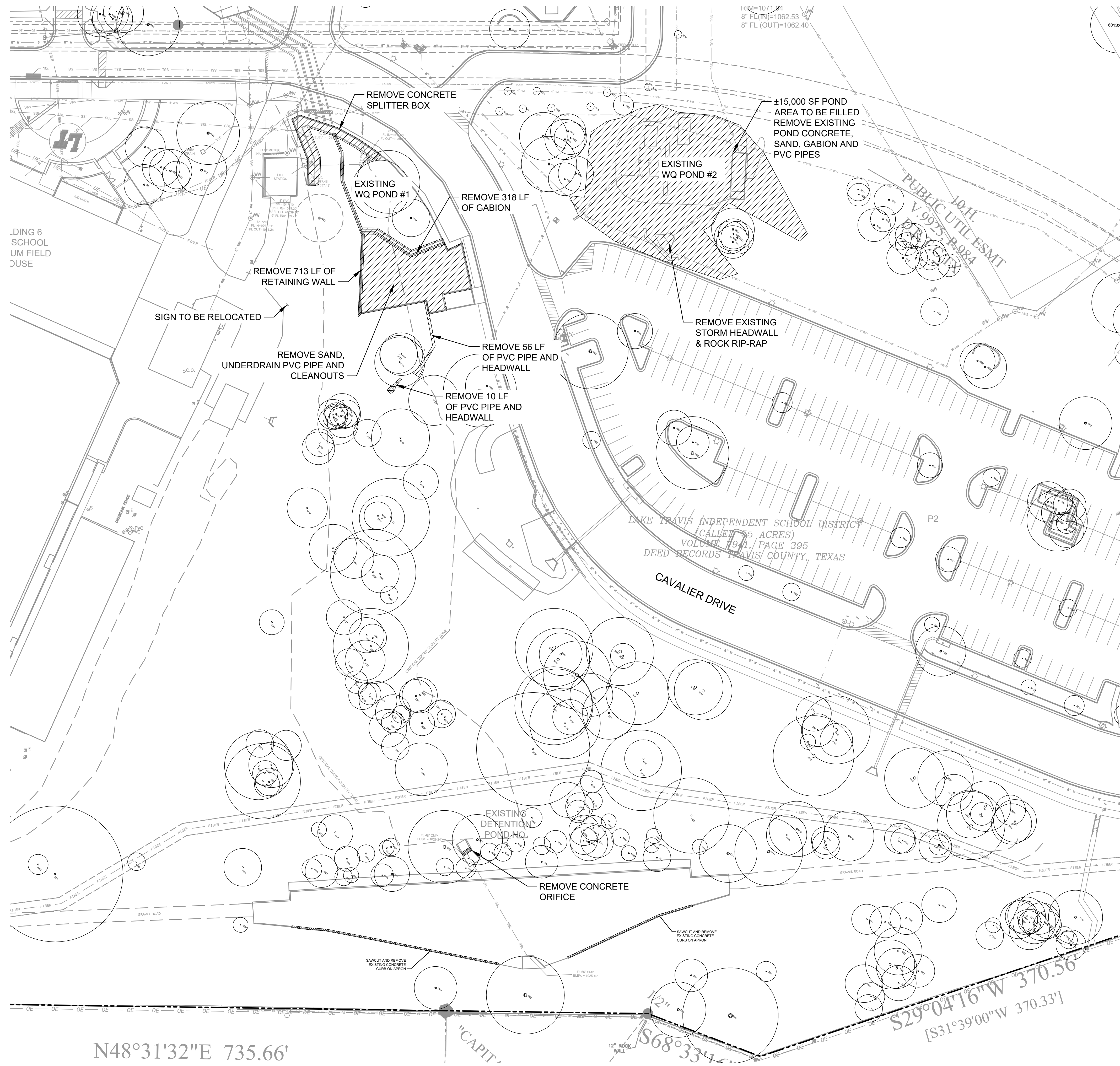
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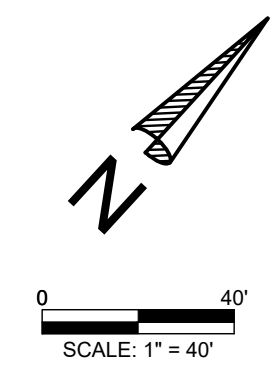


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HNM=10/1/14
8" FL(IN)=1062.53
8" FL (OUT)=1062.40



LEGEND

- PROP. ROW
- - - - EXIST. EDGE OF PAVEMENT
- - - - EXIST. DRIVE
- - - - EXIST. PUBLIC UTILITY EASEMENT
- — — — PROPERTY BOUNDARY
- — — — EXIST. SIGN
- — — — EXIST. UTILITY POLE
- ◆ SURVEY BENCHMARK
- OE — OE — EXIST. OVERHEAD ELEC.
- — — — EXIST. FENCE
- ⊙ (T) TREE TO REMAIN
- ⊙ (D) TREE TO BE REMOVED
- ▨ IMPROVEMENTS TO BE REMOVED

NOTES:

1. **WARNING!** CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH

WATER QUALITY POND DEMOLITION

MALONE ★ WHEELER
INC. SINCE 1975

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SHEET 10
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F:\ULTSD OVERALL\PROJECTS\2-105-AUS LTSD HS 2023 PRKNGLOTDRAWINGS\PLANS\105 PRE-DEVELOPED DRAINAGE AREAS.DWG. 9/29/2023, ANTHONY VINCENT

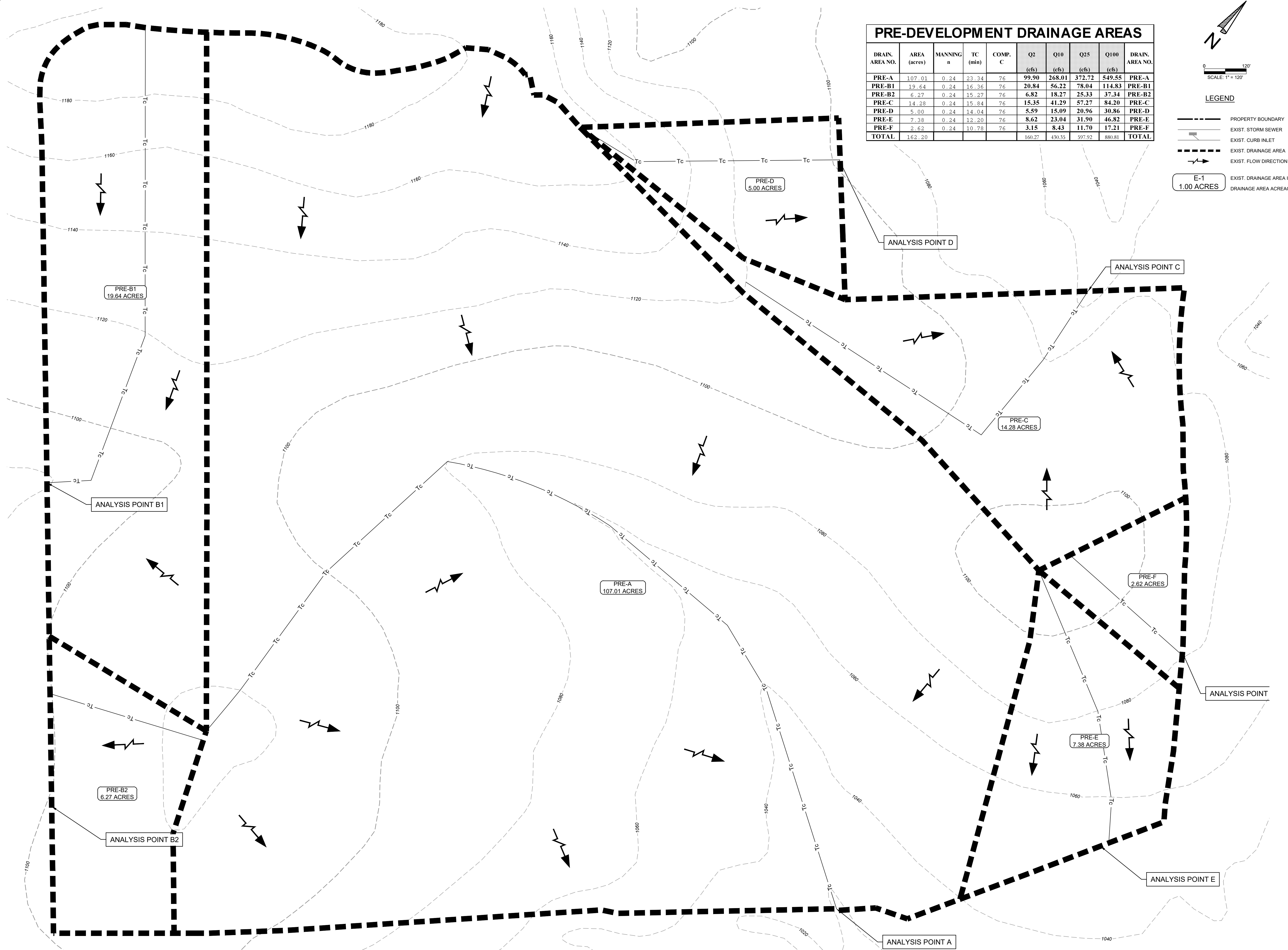
PRE-DEVELOPMENT DRAINAGE AREAS									
DRAIN. AREA NO.	AREA (acres)	MANNING n	TC (min)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
PRE-A	107.01	0.24	23.34	76	99.90	268.01	372.72	549.55	PRE-A
PRE-B1	19.64	0.24	16.36	76	20.84	56.22	78.04	114.83	PRE-B1
PRE-B2	6.27	0.24	15.27	76	6.82	18.27	25.33	37.34	PRE-B2
PRE-C	14.28	0.24	15.84	76	15.35	41.29	57.27	84.20	PRE-C
PRE-D	5.00	0.24	14.04	76	5.59	15.09	20.96	30.86	PRE-D
PRE-E	7.38	0.24	12.20	76	8.62	23.04	31.90	46.82	PRE-E
PRE-F	2.62	0.24	10.78	76	3.15	8.43	11.70	17.21	PRE-F
TOTAL	162.20				160.27	430.35	597.92	880.81	TOTAL

0 120'

SCALE: 1" = 120'

LEGEND

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



NO.	DATE	REVISION	BY

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

PRE-DEVELOPED DRAINAGE AREAS

MALONE WHEELER
SINCE 1976

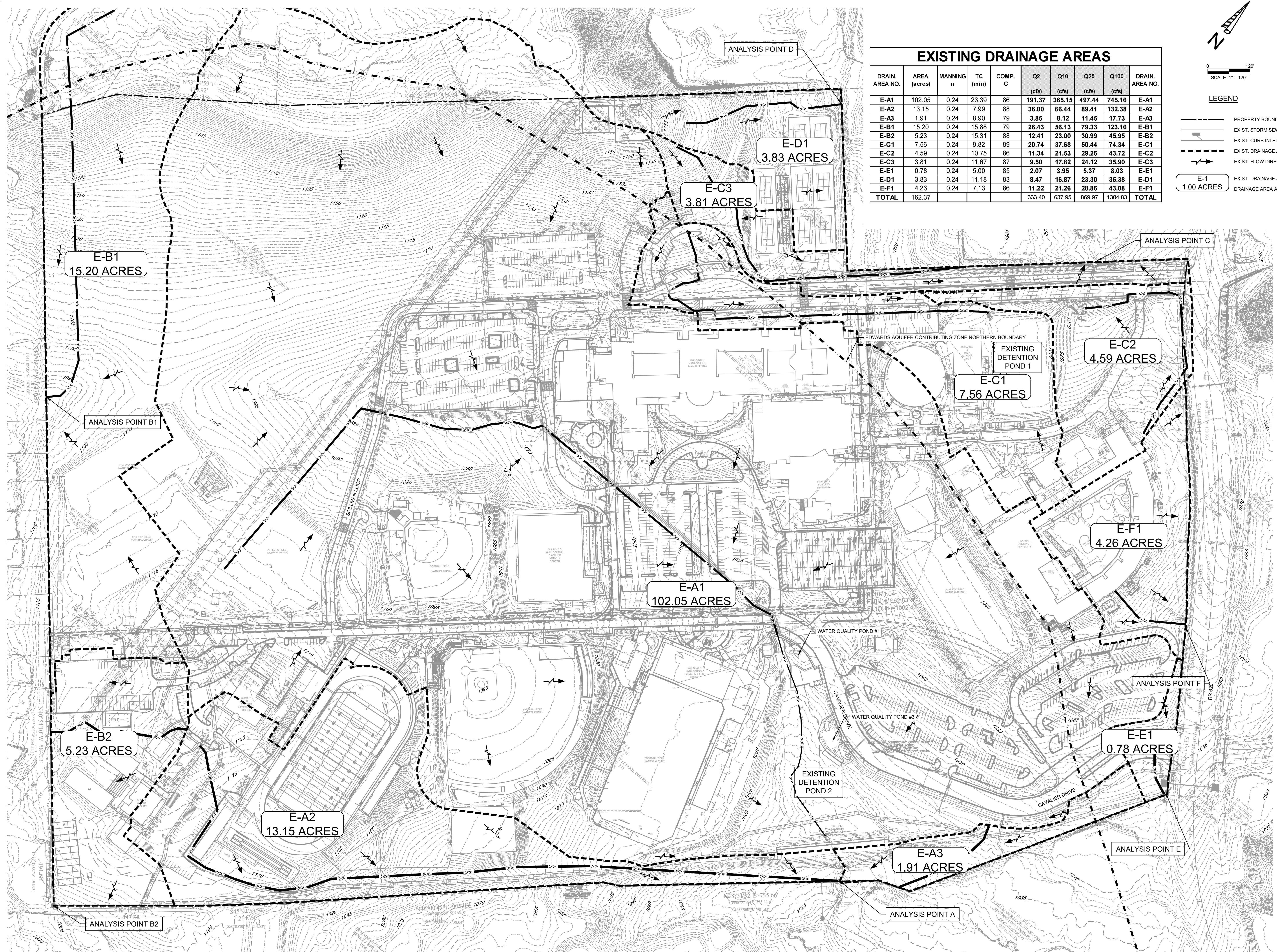
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 Austin, Texas 78735
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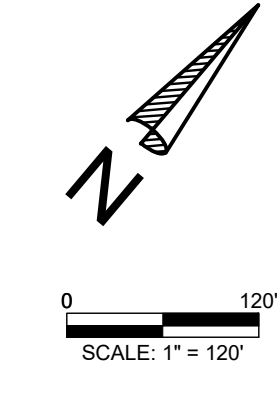
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EXISTING DRAINAGE AREAS

DRAIN. AREA NO.	AREA (acres)	MANNING n	TC (min)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
E-A1	102.05	0.24	23.39	86	191.37	365.15	497.44	745.16	E-A1
E-A2	13.15	0.24	7.99	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-B1	15.20	0.24	15.88	79	26.43	56.13	79.33	123.16	E-B1
E-B2	5.23	0.24	15.31	88	12.41	23.00	30.99	45.95	E-B2
E-C1	7.56	0.24	9.82	89	20.74	37.68	50.44	74.34	E-C1
E-C2	4.59	0.24	10.75	86	11.34	21.53	29.26	43.72	E-C2
E-C3	3.81	0.24	11.67	87	9.50	17.82	24.12	35.90	E-C3
E-D1	0.78	0.24	5.00	85	2.07	3.95	5.37	8.03	E-D1
E-E1	3.83	0.24	11.18	83	8.47	16.87	23.30	35.38	E-E1
E-F1	4.26	0.24	7.13	86	11.22	21.26	28.86	43.08	E-F1
TOTAL	162.37				333.40	637.95	869.97	1304.83	TOTAL



- LEGEND**
- PROPERTY BOUNDARY
 - EXIST. STORM SEWER
 - EXIST. CURB INLET
 - EXIST. DRAINAGE AREA
 - EXIST. FLOW DIRECTION
 - E-1 EXIST. DRAINAGE AREA ID
 - 1.00 ACRES DRAINAGE AREA ACCEAAGE

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
EXISTING DRAINAGE AREA MAP

MALONE WHEELER
INC. SINCE 1976
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 240
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



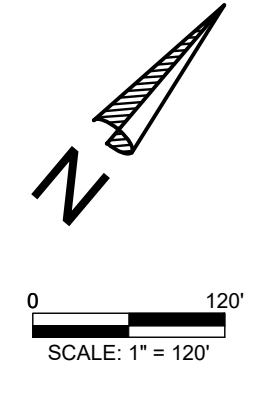
DESIGN BY: SGC
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 APPROVED BY: JBM
 DATE: 9/29/2023

F:\UTSD\OVERALL\PROJECTS\2-105-AUS\UTSD HS 2023\PRKNG\DRAWINGS\PLANS\106 PROPOSED DRAINAGE AREA MAP.DWG, 9/29/2023, ANTHONY VINCENT

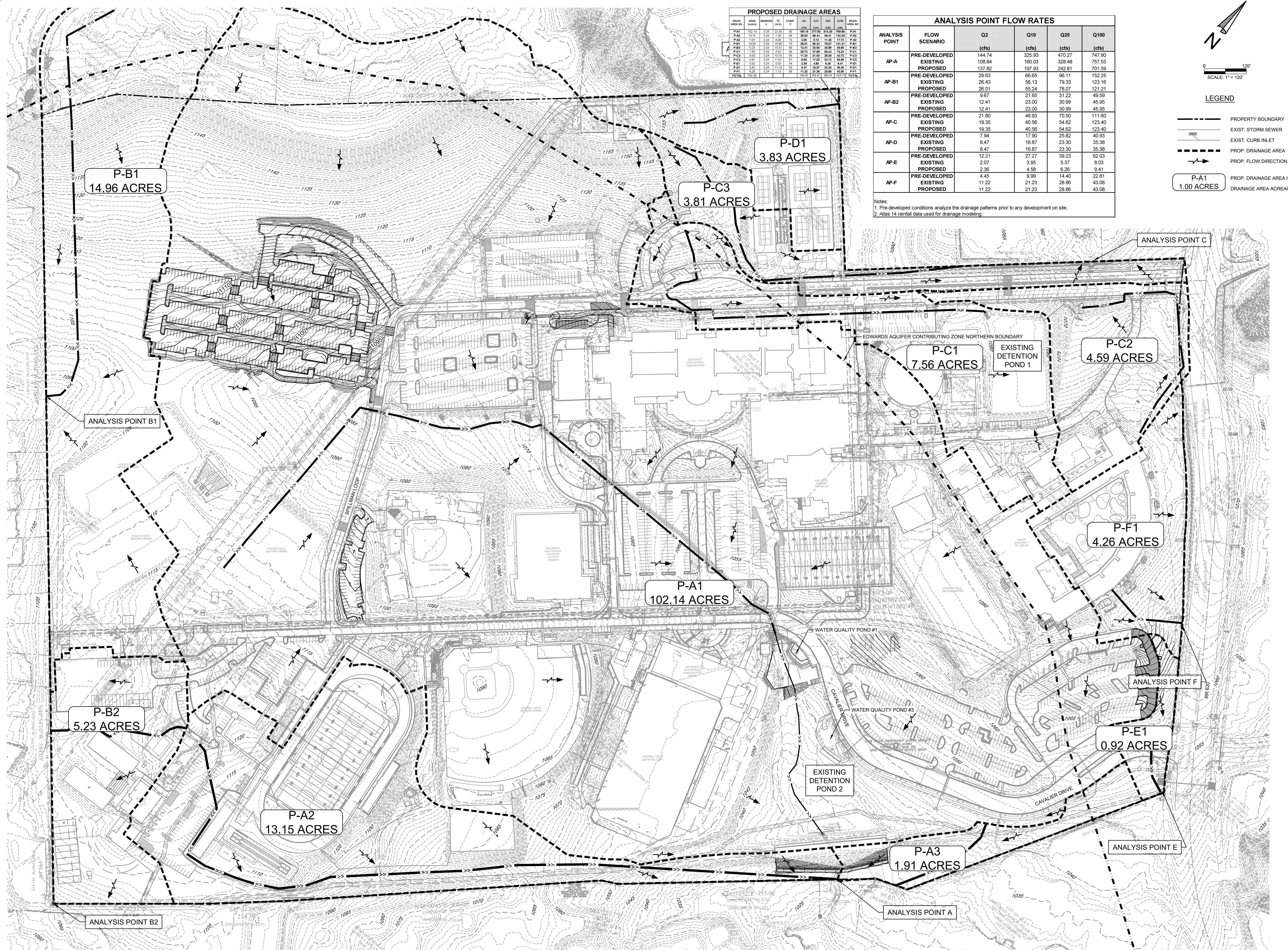
DRAIN AREA NO.	AREA (ACRES)	PERCENT IMPERVIOUS	TC	COEFF	Q2	Q10	Q25	Q100	DRAIN AREA NO.
P-A1	102.14	0.24	23.50	80	188.19	377.41	542.99	789.89	P-A1
P-A2	13.15	0.24	7.00	80	36.00	66.41	88.41	123.39	P-A2
P-A3	1.91	0.24	8.00	70	3.89	6.15	7.48	10.21	P-A3
P-B1	14.96	0.24	15.00	70	28.91	55.54	70.97	101.21	P-B1
P-B2	5.23	0.24	15.00	80	12.41	23.60	30.99	45.95	P-B2
P-B3	7.56	0.24	8.00	80	20.74	37.86	50.44	74.34	P-B3
P-C1	7.56	0.24	11.00	87	9.80	17.82	24.12	35.80	P-C1
P-C2	4.59	0.24	11.00	74	2.98	4.88	6.38	9.41	P-C2
P-C3	3.81	0.24	11.00	87	8.87	16.87	23.30	35.38	P-C3
P-D1	3.83	0.24	11.00	80	11.92	23.26	30.99	45.95	P-D1
P-E1	0.92	0.24	11.00	80	1.84	3.68	4.88	7.41	P-E1
P-F1	4.26	0.24	11.00	80	8.52	17.04	22.81	34.22	P-F1
TOTAL	162.30				381.00	762.00	1031.41	1531.20	TOTAL

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 PROPOSED	108.84	160.03	328.48	757.53
AP-B1	PRE-DEVELOPED	29.63	66.65	96.11	152.25
	EXISTING PROPOSED	26.43	56.13	79.33	123.16
AP-B2	PRE-DEVELOPED	26.01	55.24	78.07	121.21
	EXISTING PROPOSED	9.67	21.65	31.22	49.59
AP-C	PRE-DEVELOPED	12.41	23.00	30.99	45.95
	EXISTING PROPOSED	12.41	23.00	30.99	45.95
AP-D	PRE-DEVELOPED	21.80	48.93	70.50	111.60
	EXISTING PROPOSED	19.35	40.56	54.62	123.40
AP-E	PRE-DEVELOPED	19.35	40.56	54.62	123.40
	EXISTING PROPOSED	7.94	17.50	25.92	40.93
AP-F	PRE-DEVELOPED	8.47	16.87	23.30	35.38
	EXISTING PROPOSED	8.47	16.87	23.30	35.38
AP-F	PRE-DEVELOPED	12.21	27.27	39.23	62.03
	EXISTING PROPOSED	2.07	3.95	5.37	8.03
AP-F	PRE-DEVELOPED	2.36	4.58	6.26	9.41
	EXISTING PROPOSED	4.45	8.99	14.40	22.81
AP-F	PRE-DEVELOPED	11.22	21.23	28.86	43.08
	EXISTING 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. Atlas 14 rainfall data used for drainage modeling.



- LEGEND**
- PROPERTY BOUNDARY
 - EXIST. STORM SEWER
 - EXIST. CURB INLET
 - PROP. DRAINAGE AREA
 - PROP. FLOW DIRECTION
 - P-A1 PROP. DRAINAGE AREA ID
 - DRAINAGE AREA ACRES



NO.	DATE	REVISION

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
 3324 RANCH ROAD 620 SOUTH
 PROPOSED DRAINAGE AREA MAP

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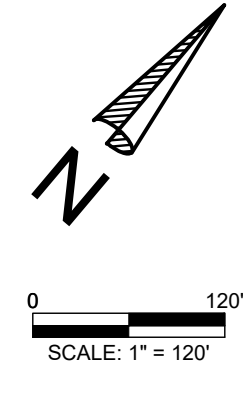
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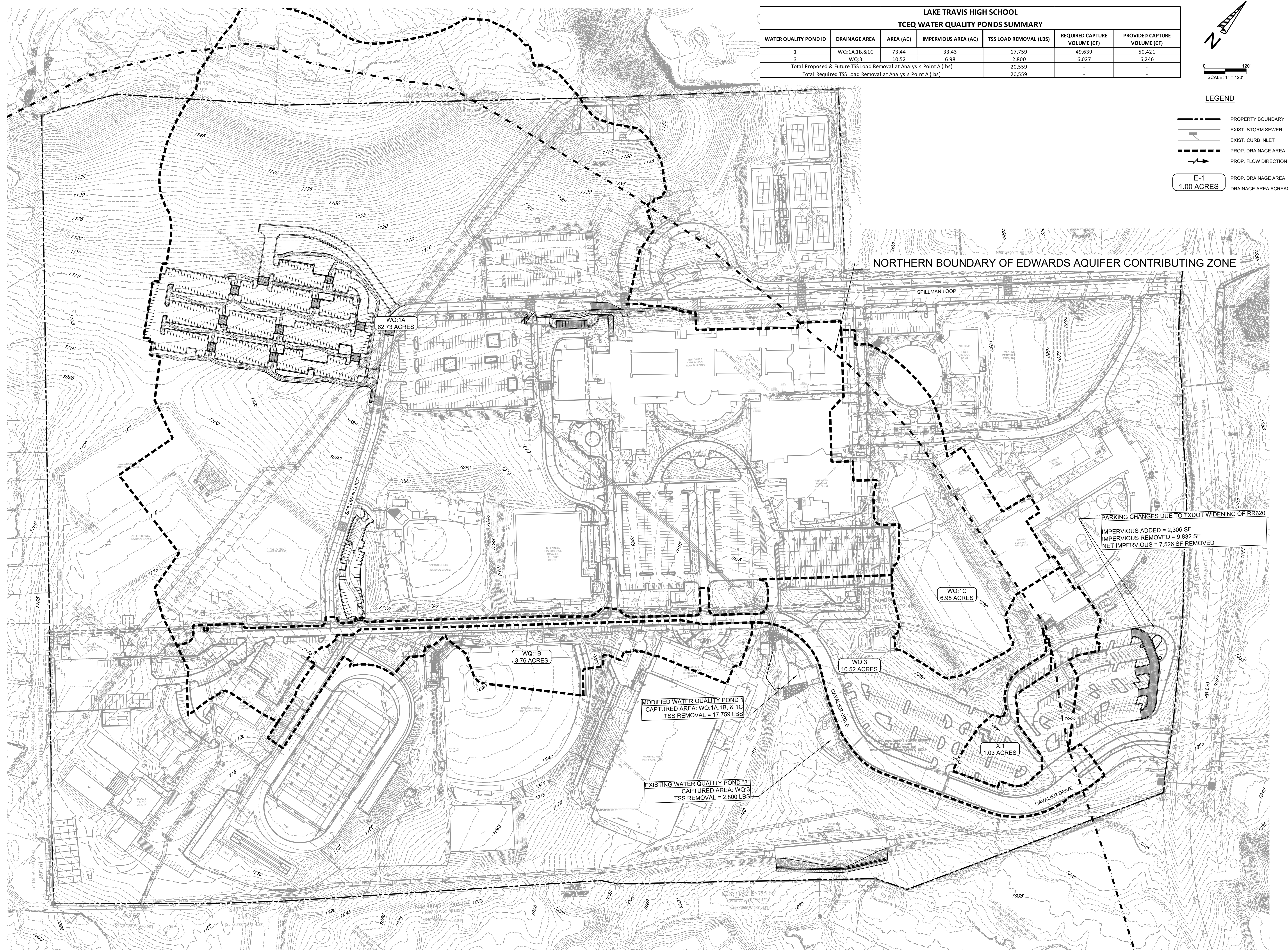
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SHEET 14 OF 62

LAKE TRAVIS HIGH SCHOOL TCEQ WATER QUALITY PONDS SUMMARY						
WATER QUALITY POND ID	DRAINAGE AREA	AREA (AC)	IMPERVIOUS AREA (AC)	TSS LOAD REMOVAL (LBS)	REQUIRED CAPTURE VOLUME (CF)	PROVIDED CAPTURE VOLUME (CF)
1	WQ:1A,1B,&1C	73.44	33.43	17,759	49,639	50,421
3	WQ:3	10.52	6.98	2,800	6,027	6,246
Total Proposed & Future TSS Load Removal at Analysis Point A (lbs)				20,559	-	-
Total Required TSS Load Removal at Analysis Point A (lbs)				20,559	-	-



- LEGEND**
- PROPERTY BOUNDARY
 - EXIST. STORM SEWER
 - EXIST. CURB INLET
 - PROP. DRAINAGE AREA
 - PROP. FLOW DIRECTION
 - E-1
1.00 ACRES
 - PROP. DRAINAGE AREA ID
 - DRAINAGE AREA ACREAGE



NO.	DATE	REVISION

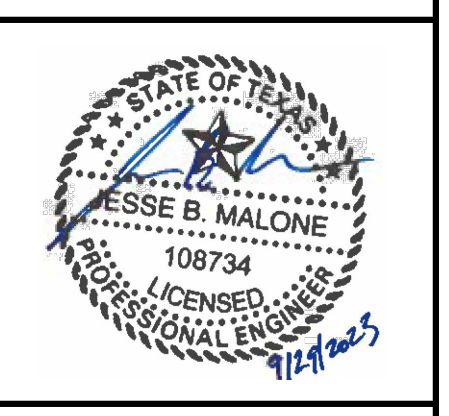
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
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PROPOSED WATER QUALITY DRAINAGE AREA MAP

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PLT/STD OVERALL PROJECTS:2-105-AUS LITSD HS 2023 PRKGLDTPDRAWINGS\PLAN107 SITE DRAINAGE AREA WAP DWG 9/29/2023, ANTHONY VINCENT



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3324 RANCH ROAD 620 SOUTH

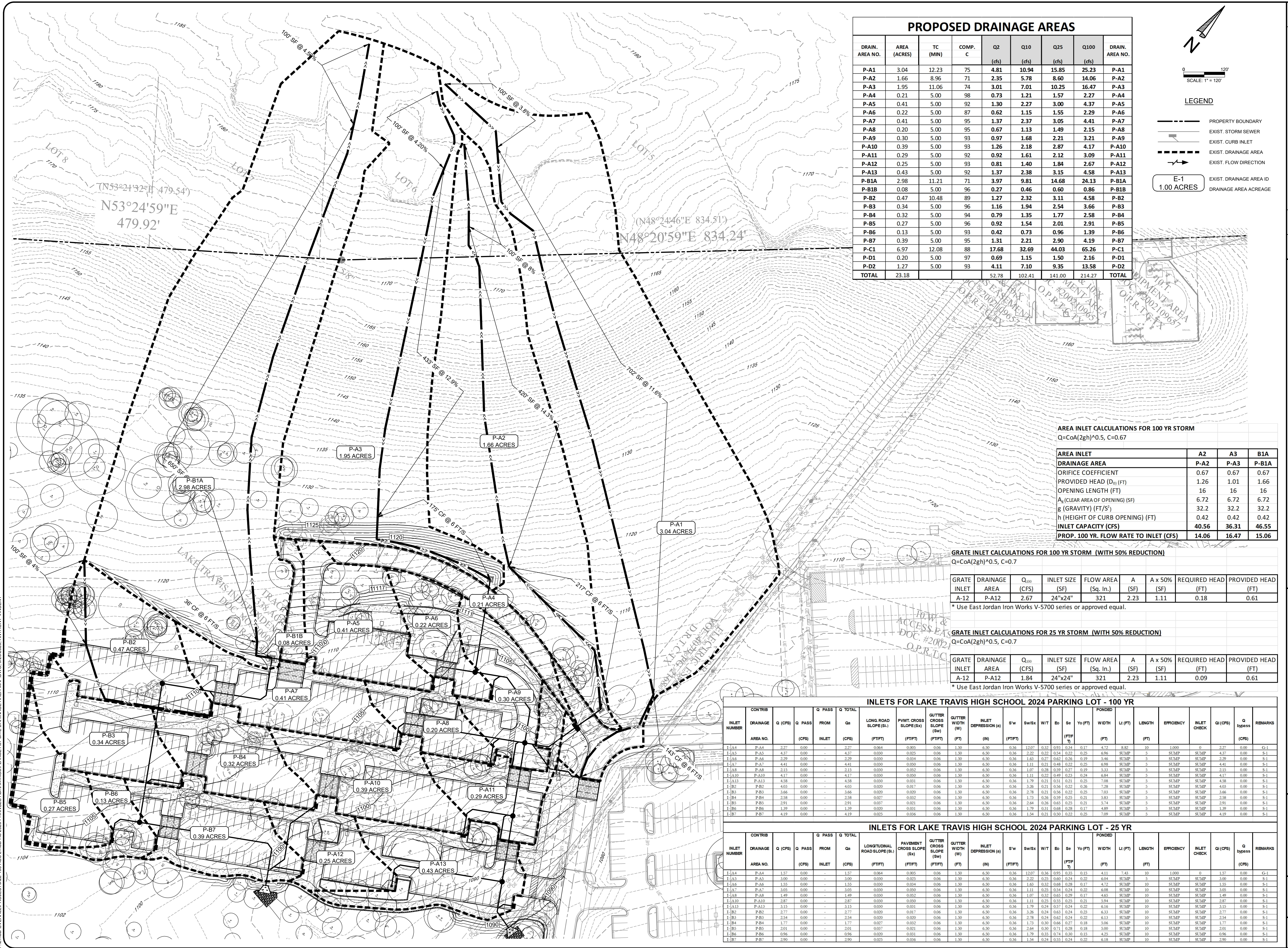
OVERALL STORM SEWER DRAINAGE AREA PLAN

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INC.

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PROPOSED DRAINAGE AREAS

DRAIN. AREA NO.	AREA (ACRES)	TC (MIN)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
P-A1	3.04	12.23	75	4.81	10.94	15.85	25.23	P-A1
P-A2	1.66	8.96	71	2.35	5.78	8.60	14.06	P-A2
P-A3	1.95	11.06	74	3.01	7.01	10.25	16.47	P-A3
P-A4	0.21	5.00	98	0.73	1.21	1.57	2.27	P-A4
P-A5	0.41	5.00	92	1.30	2.27	3.00	4.37	P-A5
P-A6	0.22	5.00	87	0.62	1.15	1.55	2.29	P-A6
P-A7	0.41	5.00	95	1.37	2.37	3.05	4.41	P-A7
P-A8	0.20	5.00	95	0.67	1.13	1.49	2.15	P-A8
P-A9	0.30	5.00	93	0.97	1.68	2.21	3.21	P-A9
P-A10	0.39	5.00	93	1.26	2.18	2.87	4.17	P-A10
P-A11	0.29	5.00	92	0.92	1.61	2.12	3.09	P-A11
P-A12	0.25	5.00	93	0.81	1.40	1.84	2.67	P-A12
P-A13	0.43	5.00	92	1.37	2.38	3.15	4.58	P-A13
P-B1A	2.98	11.21	71	3.97	9.81	14.68	24.13	P-B1A
P-B1B	0.08	5.00	96	0.27	0.46	0.60	0.86	P-B1B
P-B2	0.47	10.48	89	1.27	2.32	3.11	4.58	P-B2
P-B3	0.34	5.00	96	1.16	1.94	2.54	3.66	P-B3
P-B4	0.32	5.00	94	0.79	1.35	1.77	2.58	P-B4
P-B5	0.27	5.00	96	0.92	1.54	2.01	2.91	P-B5
P-B6	0.13	5.00	93	0.42	0.73	0.96	1.39	P-B6
P-B7	0.39	5.00	95	1.31	2.21	2.90	4.19	P-B7
P-C1	6.97	12.08	88	17.68	32.69	44.03	65.26	P-C1
P-D1	0.20	5.00	97	0.69	1.15	1.50	2.16	P-D1
P-D2	1.27	5.00	93	4.11	7.10	9.35	13.58	P-D2
TOTAL	23.18			52.78	102.41	141.00	214.27	TOTAL

LEGEND

- PROPERTY BOUNDARY
- EXIST. STORM SEWER
- EXIST. CURB INLET
- EXIST. DRAINAGE AREA
- EXIST. FLOW DIRECTION
- EXIST. DRAINAGE AREA ID
- DRAINAGE AREA ACRES

E-1
1.00 ACRES

AREA INLET CALCULATIONS FOR 100 YR STORM

$Q = CoA(2gh)^{0.5}$, $C = 0.67$

AREA INLET DRAINAGE AREA	A2	A3	B1A
ORFICE COEFFICIENT	0.67	0.67	0.67
PROVIDED HEAD (D ₀) (FT)	1.26	1.01	1.66
OPENING LENGTH (FT)	16	16	16
A ₀ (CLEAR AREA OF OPENING) (SF)	6.72	6.72	6.72
g (GRAVITY) (FT/S ²)	32.2	32.2	32.2
h (HEIGHT OF CURB OPENING) (FT)	0.42	0.42	0.42
INLET CAPACITY (CFS)	40.56	36.31	46.55
PROP. 100 YR. FLOW RATE TO INLET (CFS)	14.06	16.47	15.06

GRATE INLET CALCULATIONS FOR 100 YR STORM (WITH 50% REDUCTION)

$Q = CoA(2gh)^{0.5}$, $C = 0.7$

GRATE INLET AREA (CFS)	Q ₁₀₀ (CFS)	INLET SIZE (SF)	FLOW AREA (Sq. In.)	A (SF)	A x 50% (SF)	REQUIRED HEAD (FT)	PROVIDED HEAD (FT)	
A-12	P-A12	2.67	24"x24"	321	2.23	1.11	0.18	0.61

* Use East Jordan Iron Works V-5700 series or approved equal.

GRATE INLET CALCULATIONS FOR 25 YR STORM (WITH 50% REDUCTION)

$Q = CoA(2gh)^{0.5}$, $C = 0.7$

GRATE INLET AREA (CFS)	Q ₁₀₀ (CFS)	INLET SIZE (SF)	FLOW AREA (Sq. In.)	A (SF)	A x 50% (SF)	REQUIRED HEAD (FT)	PROVIDED HEAD (FT)	
A-12	P-A12	1.84	24"x24"	321	2.23	1.11	0.09	0.61

* Use East Jordan Iron Works V-5700 series or approved equal.

INLETS FOR LAKE TRAVIS HIGH SCHOOL 2024 PARKING LOT - 100 YR

INLET NUMBER	CONTRIB DRAINAGE AREA NO.	Q (CFS)	Q PASS (CFS)	Q TOTAL (CFS)	LONG. ROAD SLOPE (S)	PVMT. CROSS SLOPE (S)	GUTTER CROSS SLOPE (S)	GUTTER WIDTH (W)	INLET DEPRESSION (d)	S'w	SW/Sw	W/T	Es	Ed	Yo (FT)	WIDTH (FT)	Lt (FT)	LENGTH (FT)	EFFICIENCY	INLET CHECK	Q1 (CFS)	Q bypass (CFS)	REMARKS
I-A4	P-A4	2.97	0.00	2.97	0.004	0.005	0.06	1.50	6.50	0.36	12.07	0.36	0.95	0.33	0.15	4.11	7.43	10	1.000	0	2.27	0.00	G-1
I-A5	P-A5	4.37	0.00	4.37	0.009	0.025	0.06	1.50	6.50	0.36	2.28	0.25	0.54	0.25	0.25	6.96	SEMP	5	SEMP	SEMP	4.37	0.00	S-1
I-A6	P-A6	2.29	0.00	2.29	0.004	0.004	0.06	1.50	6.50	0.36	1.63	0.27	0.62	0.26	0.19	3.46	SEMP	5	SEMP	SEMP	2.29	0.00	S-1
I-A7	P-A7	4.41	0.00	4.41	0.009	0.050	0.06	1.50	6.50	0.36	1.11	0.21	0.48	0.22	0.25	6.98	SEMP	5	SEMP	SEMP	4.41	0.00	S-1
I-A8	P-A8	2.15	0.00	2.15	0.004	0.052	0.06	1.50	6.50	0.36	1.07	0.28	0.59	0.27	0.19	3.33	SEMP	5	SEMP	SEMP	2.15	0.00	S-1
I-A9	P-A9	4.17	0.00	4.17	0.009	0.050	0.06	1.50	6.50	0.36	1.11	0.23	0.49	0.23	0.24	6.84	SEMP	5	SEMP	SEMP	4.17	0.00	S-1
I-A10	P-A10	4.03	0.00	4.03	0.009	0.031	0.06	1.50	6.50	0.36	1.79	0.21	0.51	0.21	0.25	7.08	SEMP	5	SEMP	SEMP	4.03	0.00	S-1
I-B1	P-B1	3.66	0.00	3.66	0.009	0.009	0.06	1.50	6.50	0.36	3.38	0.21	0.56	0.22	0.26	7.28	SEMP	5	SEMP	SEMP	4.03	0.00	S-1
I-B2	P-B2	2.58	0.00	2.58	0.007	0.002	0.06	1.50	6.50	0.36	2.78	0.21	0.56	0.22	0.25	7.03	SEMP	5	SEMP	SEMP	3.66	0.00	S-1
I-B3	P-B3	2.91	0.00	2.91	0.007	0.002	0.06	1.50	6.50	0.36	1.73	0.26	0.59	0.23	0.21	3.83	SEMP	5	SEMP	SEMP	2.58	0.00	S-1
I-B4	P-B4	2.91	0.00	2.91	0.007	0.002	0.06	1.50	6.50	0.36	2.64	0.26	0.65	0.25	0.21	3.74	SEMP	5	SEMP	SEMP	2.91	0.00	S-1
I-B5	P-B5	1.39	0.00	1.39	0.003	0.011	0.06	1.50	6.50	0.36	1.29	0.31	0.68	0.28	0.17	4.89	SEMP	5	SEMP	SEMP	1.39	0.00	S-1
I-B6	P-B6	4.19	0.00	4.19	0.009	0.006	0.06	1.50	6.50	0.36	1.54	0.21	0.50	0.22	0.25	7.09	SEMP	5	SEMP	SEMP	4.19	0.00	S-1

INLETS FOR LAKE TRAVIS HIGH SCHOOL 2024 PARKING LOT - 25 YR

INLET NUMBER	CONTRIB DRAINAGE AREA NO.	Q (CFS)	Q PASS (CFS)	Q TOTAL (CFS)	LONG. ROAD SLOPE (S)	PVMT. CROSS SLOPE (S)	GUTTER CROSS SLOPE (S)	GUTTER WIDTH (W)	INLET DEPRESSION (d)	S'w	SW/Sw	W/T	Es	Ed	Yo (FT)	WIDTH (FT)	Lt (FT)	LENGTH (FT)	EFFICIENCY	INLET CHECK	Q1 (CFS)	Q bypass (CFS)	REMARKS
I-A4	P-A4	1.57	0.00	1.57	0.004	0.005	0.06	1.50	6.50	0.36	12.07	0.36	0.95	0.33	0.15	4.11	7.43	10	1.000	0	1.57	0.00	G-1
I-A5	P-A5	3.00	0.00	3.00	0.009	0.025	0.06	1.50	6.50	0.36	2.28	0.25	0.60	0.24	0.25	6.04	SEMP	5	SEMP	SEMP	3.00	0.00	S-1
I-A6	P-A6	1.55	0.00	1.55	0.004	0.004	0.06	1.50	6.50	0.36	1.23	0.25	0.64	0.25	0.19	3.72	SEMP	5	SEMP	SEMP	1.55	0.00	S-1
I-A7	P-A7	3.05	0.00	3.05	0.009	0.050	0.06	1.50	6.50	0.36	1.11	0.23	0.54	0.24	0.22	6.08	SEMP	5	SEMP	SEMP	3.05	0.00	S-1
I-A8	P-A8	1.49	0.00	1.49	0.003	0.052	0.06	1.50	6.50	0.36	1.07	0.32	0.65	0.29	0.17	4.65	SEMP	5	SEMP	SEMP	1.49	0.00	S-1
I-A9	P-A9	2.87	0.00	2.87	0.009	0.050	0.06	1.50	6.50	0.36	1.11	0.23	0.55	0.23	0.24	6.84	SEMP	5	SEMP	SEMP	2.87	0.00	S-1
I-A10	P-A10	3.15	0.00	3.15	0.009	0.031	0.06	1.50	6.50	0.36	1.79	0.24	0.57	0.24	0.25	6.16	SEMP	5	SEMP	SEMP	3.15	0.00	S-1
I-B1	P-B1	2.77	0.00	2.77	0.009	0.007	0.06	1.50	6.50	0.36	3.38	0.24	0.63	0.24	0.23	6.33	SEMP	5	SEMP	SEMP	2.77	0.00	S-1
I-B2	P-B2	2.54	0.00	2.54	0.007	0.002	0.06	1.50	6.50	0.36	2.78	0.24	0.62	0.24	0.22	6.13	SEMP	5	SEMP	SEMP	2.54	0.00	S-1
I-B3	P-B3	2.91	0.00	2.91	0.007	0.002	0.06	1.50	6.50	0.36	1.73	0.26	0.64	0.27	0.18	3.96	SEMP	5	SEMP	SEMP	2.91	0.00	S-1
I-B4	P-B4	1.77	0.00	1.77	0.007	0.002	0.06	1.50	6.50	0.36	2.64	0.30	0.71	0.28	0.18	5.00	SEMP	5	SEMP	SEMP	1.77	0.00	S-1
I-B5	P-B5	2.01	0.00	2.01	0.007	0.002	0.06	1.50	6.50	0.36	1.79	0.32	0.74	0.30	0.15	4.25	SEMP	5	SEMP	SEMP	2.01	0.00	S-1
I-B6	P-B6	0.96	0.00	0.96	0.003	0.011	0.06	1.50	6.50	0.36	1.29	0.31	0.74	0.30	0.15	4.25	SEMP	5	SEMP	SEMP	0.96	0.00	S-1
I-B7	P-B7	2.90	0.00	2.90	0.009	0.006	0.06	1.50	6.50	0.36	1.54	0.24	0.55	0.24	0.23	6.18	SEMP	5	SEMP	SEMP	2.90	0.00	S-1

P:\UTSD\OVERALL\PROJECTS\2024\HS 2024\PRKNG\DRAWINGS\PLANS\107 SITE DRAINAGE AREA MAP.DWG, 9/29/2023, ANTHONY VINCENT

BY	
REVISION	
DATE	
NO.	

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1

3324 RANCH ROAD 620 SOUTH

STORM SEWER DRAINAGE AREA MAP 1

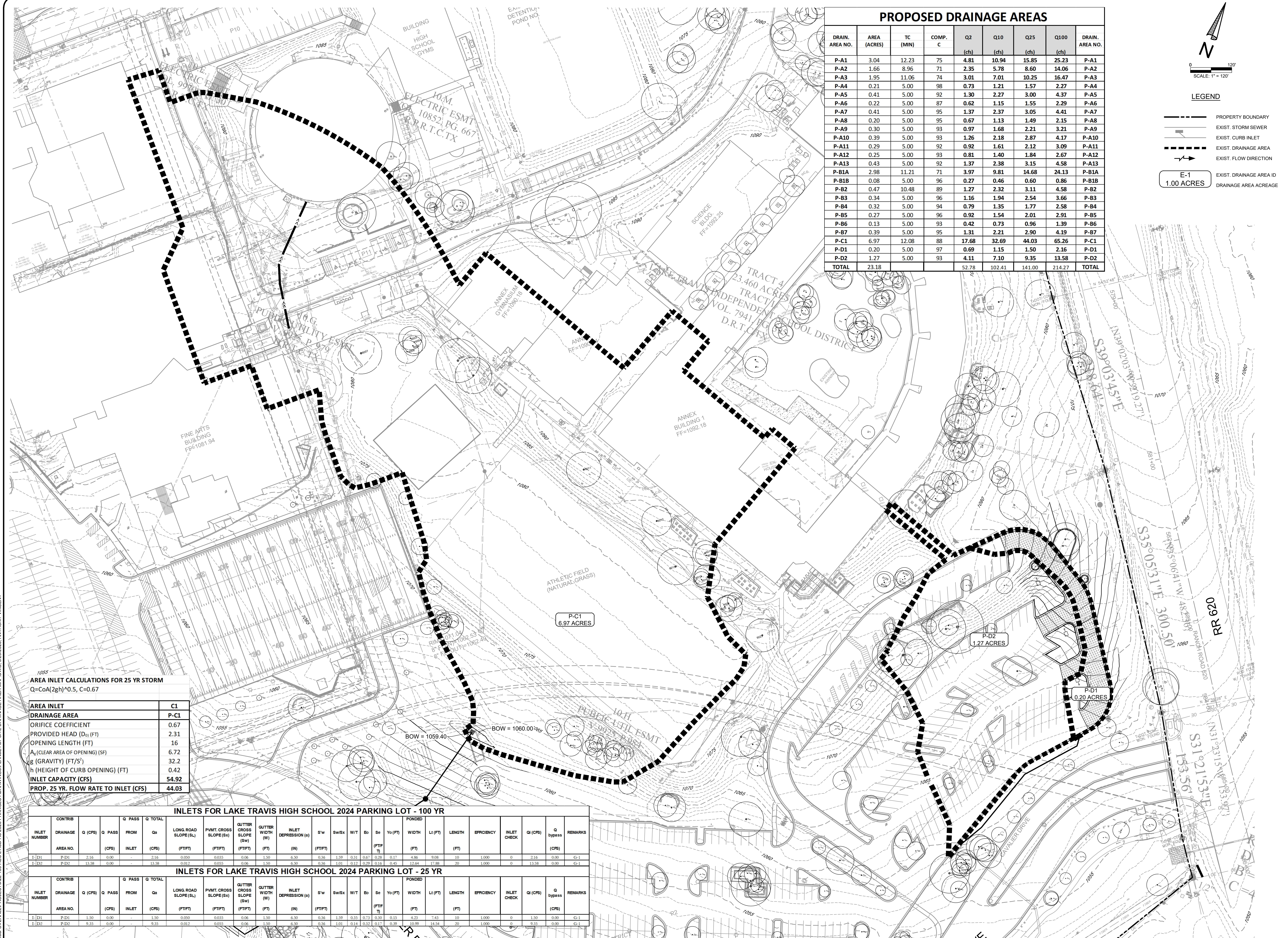
CIVIL ENGINEERING & DEVELOPMENT CONSULTING & PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78745
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786

DESIGN BY :	SGC
CHECKED BY :	SGC
APPROVED BY :	JBM
DATE :	9/29/2023

SHEET 17

OF 62

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PROPOSED DRAINAGE AREAS

DRAIN. AREA NO.	AREA (ACRES)	TC (MIN)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
P-A1	3.04	12.23	75	4.81	10.94	15.85	25.23	P-A1
P-A2	1.66	8.96	71	2.35	5.78	8.60	14.06	P-A2
P-A3	1.95	11.06	74	3.01	7.01	10.25	16.47	P-A3
P-A4	0.21	5.00	98	0.73	1.21	1.57	2.27	P-A4
P-A5	0.41	5.00	92	1.30	2.27	3.00	4.37	P-A5
P-A6	0.22	5.00	87	0.62	1.15	1.55	2.29	P-A6
P-A7	0.41	5.00	95	1.37	2.37	3.05	4.41	P-A7
P-A8	0.20	5.00	95	0.67	1.13	1.49	2.15	P-A8
P-A9	0.30	5.00	93	0.97	1.68	2.21	3.21	P-A9
P-A10	0.39	5.00	93	1.26	2.18	2.87	4.17	P-A10
P-A11	0.29	5.00	92	0.92	1.61	2.12	3.09	P-A11
P-A12	0.25	5.00	93	0.81	1.40	1.84	2.67	P-A12
P-A13	0.43	5.00	92	1.37	2.38	3.15	4.58	P-A13
P-B1A	2.98	11.21	71	3.97	9.81	14.68	24.13	P-B1A
P-B1B	0.08	5.00	96	0.27	0.46	0.60	0.86	P-B1B
P-B2	0.47	10.48	89	1.27	2.32	3.11	4.58	P-B2
P-B3	0.34	5.00	96	1.16	1.94	2.54	3.66	P-B3
P-B4	0.32	5.00	94	0.79	1.35	1.77	2.58	P-B4
P-B5	0.27	5.00	96	0.92	1.54	2.01	2.91	P-B5
P-B6	0.13	5.00	93	0.42	0.73	0.96	1.39	P-B6
P-B7	0.39	5.00	95	1.31	2.21	2.90	4.19	P-B7
P-C1	6.97	12.08	88	17.68	32.69	44.03	65.26	P-C1
P-D1	0.20	5.00	97	0.69	1.15	1.50	2.16	P-D1
P-D2	1.27	5.00	93	4.11	7.10	9.35	13.58	P-D2
TOTAL	23.18			52.78	102.41	141.00	214.27	TOTAL

LEGEND

- PROPERTY BOUNDARY
- EXIST. STORM SEWER
- EXIST. CURB INLET
- EXIST. DRAINAGE AREA
- EXIST. FLOW DIRECTION
- EXIST. DRAINAGE AREA ID
- DRAINAGE AREA ACRES

E-1
1.00 ACRES

AREA INLET CALCULATIONS FOR 25 YR STORM
 $Q = CoA(2gh)^{0.5}$, $C = 0.67$

AREA INLET	C1
DRAINAGE AREA	P-C1
ORIFICE COEFFICIENT	0.67
PROVIDED HEAD (D ₀) (FT)	2.31
OPENING LENGTH (FT)	16
A ₀ (CLEAR AREA OF OPENING) (SF)	6.72
B (GRAVITY) (FT/S ²)	32.2
h (HEIGHT OF CURB OPENING) (FT)	0.42
INLET CAPACITY (CFS)	54.92
PROP. 25 YR. FLOW RATE TO INLET (CFS)	44.03

INLETS FOR LAKE TRAVIS HIGH SCHOOL 2024 PARKING LOT - 100 YR

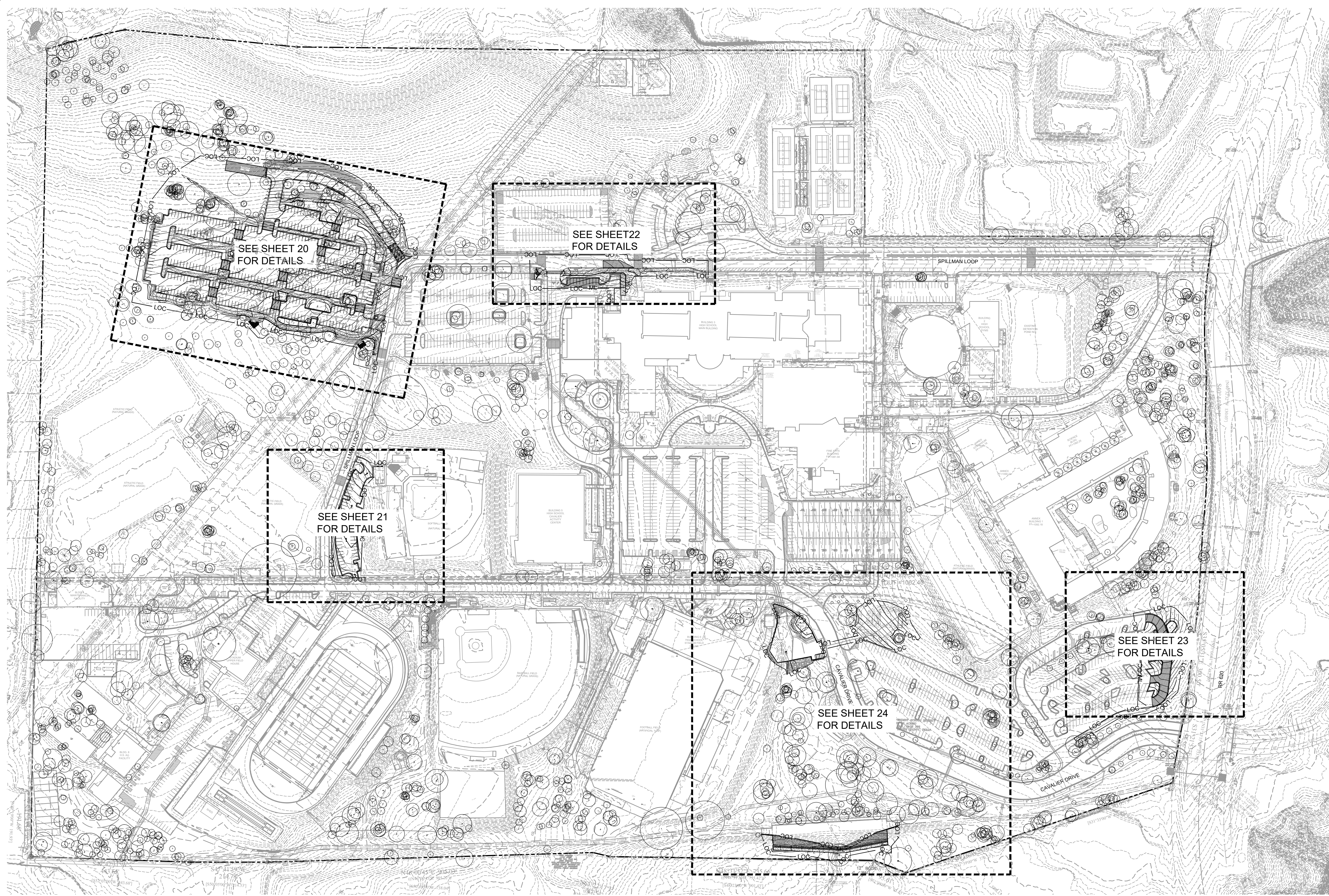
INLET NUMBER	CONTRIB DRAINAGE AREA NO.	Q (CFS)	Q PASS (CFS)	Q TOTAL (CFS)	FROM INLET (CFS)	Q _a (CFS)	LONG ROAD SLOPE (S _L) (F/100)	PVMT. CROSS SLOPE (S _X) (F/100)	GUTTER CROSS SLOPE (S _W) (F/100)	GUTTER WIDTH (W) (FT)	INLET DEPRESSION (a) (IN)	S _w (F/100)	S _w x (F/100)	W/T	E ₀	S _e (F/100)	Y ₀ (FT)	WIDTH (FT)	L _t (FT)	LENGTH (FT)	EFFICIENCY	INLET CHECK	Q (CFS)	Q BYPASS (CFS)	REMARKS
I-D1	P-D1	2.16	0.00	2.16	2.16	0.050	0.035	0.06	1.50	6.30	0.36	1.59	0.31	0.67	0.28	0.17	4.86	9.08	10	1.000	0	2.16	0.00	G-1	
I-D2	P-D2	13.38	0.00	13.38	13.38	0.050	0.035	0.06	1.50	6.30	0.36	1.00	0.12	0.29	0.10	0.43	12.64	17.98	20	1.000	0	13.38	0.00	G-1	

INLETS FOR LAKE TRAVIS HIGH SCHOOL 2024 PARKING LOT - 25 YR

INLET NUMBER	CONTRIB DRAINAGE AREA NO.	Q (CFS)	Q PASS (CFS)	Q TOTAL (CFS)	FROM INLET (CFS)	Q _a (CFS)	LONG ROAD SLOPE (S _L) (F/100)	PVMT. CROSS SLOPE (S _X) (F/100)	GUTTER CROSS SLOPE (S _W) (F/100)	GUTTER WIDTH (W) (FT)	INLET DEPRESSION (a) (IN)	S _w (F/100)	S _w x (F/100)	W/T	E ₀	S _e (F/100)	Y ₀ (FT)	WIDTH (FT)	L _t (FT)	LENGTH (FT)	EFFICIENCY	INLET CHECK	Q (CFS)	Q BYPASS (CFS)	REMARKS
I-D1	P-D1	1.50	0.00	1.50	1.50	0.050	0.035	0.06	1.50	6.30	0.36	1.29	0.33	0.13	0.15	0.23	7.40	10	1.000	0	1.50	0.00	G-1		
I-D2	P-D2	9.35	0.00	9.35	9.35	0.050	0.035	0.06	1.50	6.30	0.36	1.00	0.12	0.12	0.10	0.39	10.29	14.34	20	1.000	0	9.35	0.00	G-1	

BY									
REVISION									
DATE									
NO.									
<p>LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 3324 RANCH ROAD 620 SOUTH STORM SEWER DRAINAGE AREA MAP 2</p>									
<p>MALONE WHEELER <small>INC. SINCE 1975</small></p> <p>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</p>									
<p>DESIGN BY: SGC CHECKED BY: SGC APPROVED BY: JBM DATE: 9/29/2023</p>									
<p>SHEET 18 OF 62</p>									

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SEE SHEET 20 FOR DETAILS

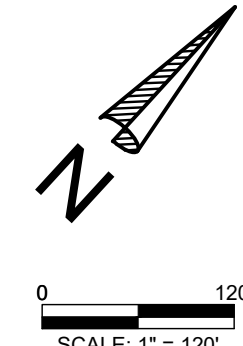
SEE SHEET 22 FOR DETAILS

SEE SHEET 21 FOR DETAILS

SEE SHEET 24 FOR DETAILS

SEE SHEET 23 FOR DETAILS

LEGEND			
---	PROPERTY BOUNDARY	IP	INLET PROTECTION
---	PLAT BOUNDARY	TP	TREE PROTECTION
LOC	LIMITS OF CONSTRUCTION	ML	MULCH LOG
SF	SILT FENCE	RB	ROCK BERM
JH	SILT FENCE W/ J HOOKS	CSA	CONTRACTOR'S STAGING/SPOILS AREA
		SCE	STABILIZED CONSTRUCTION ENTRANCE
		10	PROPOSED FINISHED GRADE
		10	TREE TO REMAIN
		10	TREE TO BE REMOVED



NO.	DATE	REVISION	BY

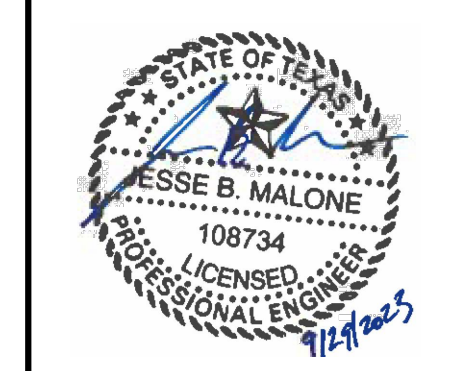
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH

OVERALL EROSION & SEDIMENTATION CONTROL PLAN

MALONE WHEELER
INC. SINCE 1976

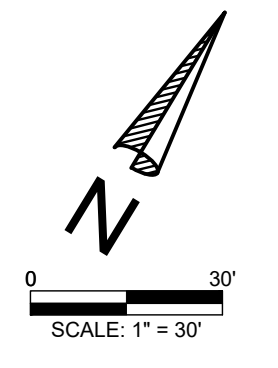
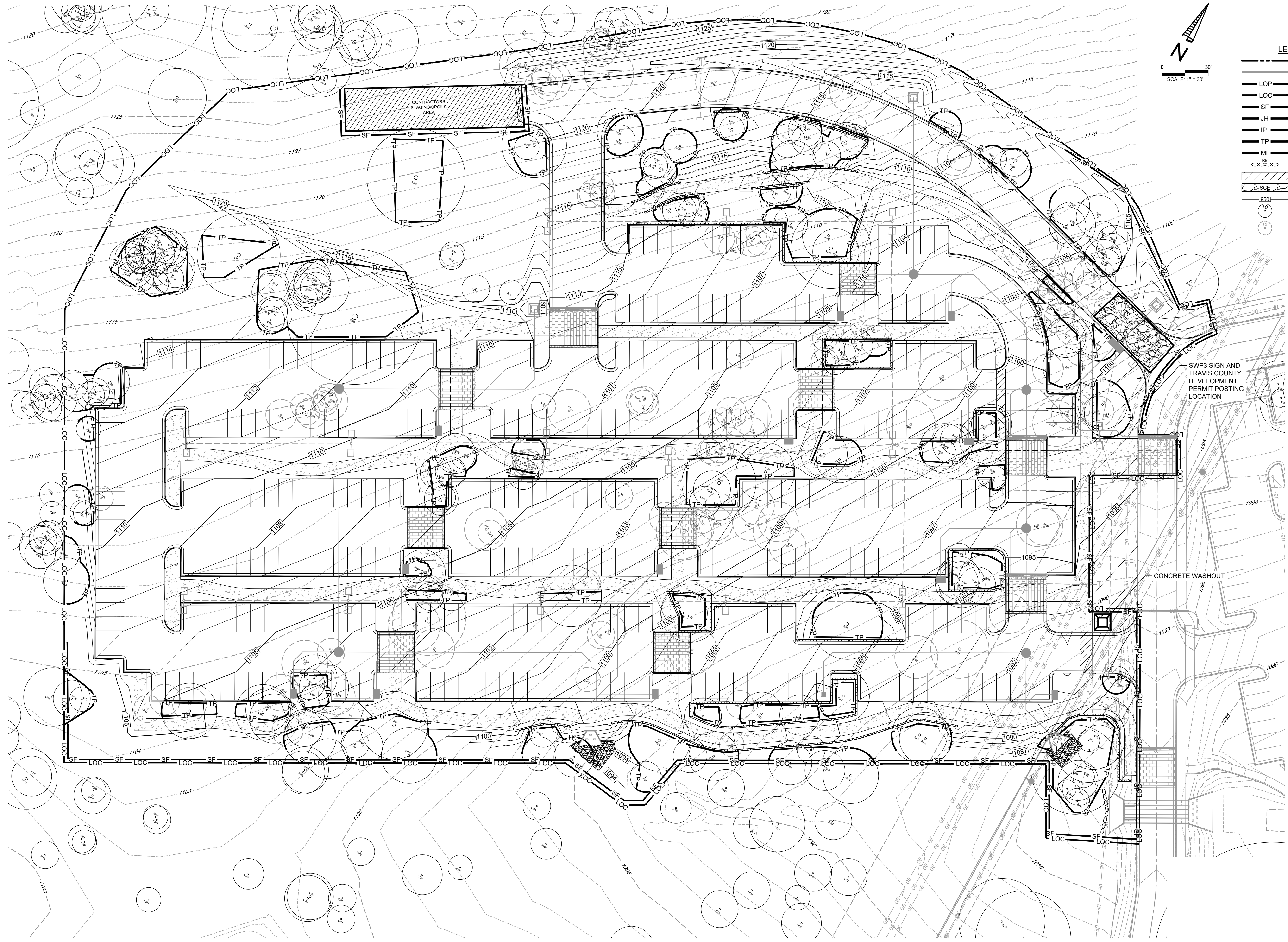
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

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



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023

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- LEGEND**
- PROPERTY BOUNDARY
 - - - PLAT BOUNDARY
 - == LOP LIMITS OF PROJECT
 - == LOC LIMITS OF CONSTRUCTION
 - == SF SILT FENCE
 - == JH SILT FENCE W/ J HOOKS
 - == IP INLET PROTECTION
 - == TP TREE PROTECTION
 - == ML MULCH LOG
 - RB ROCK BERM
 - ▨ CSA CONTRACTOR'S STAGING/SPOILS AREA
 - ▨ SCE STABILIZED CONSTRUCTION ENTRANCE
 - PFG PROPOSED FINISHED GRADE
 - TR TREE TO REMAIN
 - TRB TREE TO BE REMOVED

SWP3 SIGN AND TRAVIS COUNTY DEVELOPMENT PERMIT POSTING LOCATION

CONCRETE WASHOUT

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
PARKING LOT EROSION & SEDIMENTATION CONTROL PLAN

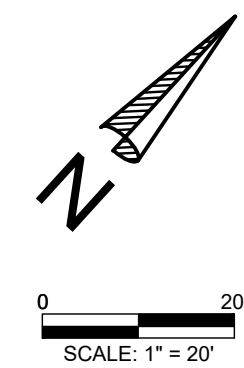
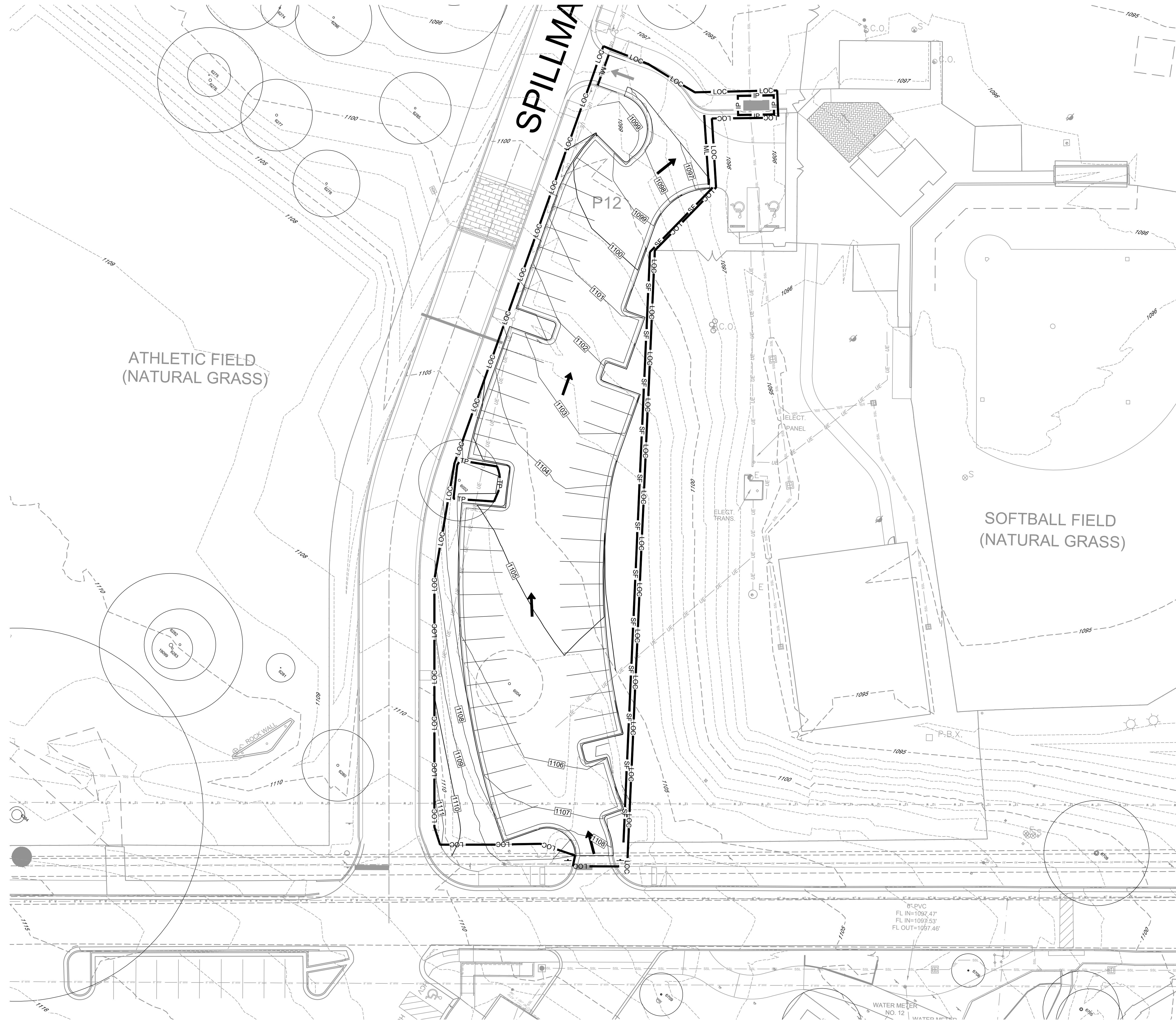
MALONE ★ WHEELER
INC. 1976

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



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023

F:\UTISD\OVERALL\PROJECTS\2-105-AUS-UTISD HS 2023 PRKNGLOTDRAWINGS\PLAN\BET118 OVERALL EROSION & SEDIMENTATION CONTROL PLAN.DWG. 9/29/2023. ANTHONY VINCENT



- LEGEND**
- PROPERTY BOUNDARY
 - PLAT BOUNDARY
 - LOP LIMITS OF PROJECT
 - LOC LIMITS OF CONSTRUCTION
 - SF SILT FENCE
 - JH SILT FENCE W/ J HOOKS
 - IP INLET PROTECTION
 - TP TREE PROTECTION
 - ML MULCH LOG
 - RB ROCK BERM
 - CONTRACTOR'S STAGING/SPOILS AREA
 - SCE STABILIZED CONSTRUCTION ENTRANCE
 - PROPOSED FINISHED GRADE
 - TREE TO REMAIN
 - TREE TO BE REMOVED

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
SOFTBALL FIELD EROSION & SEDIMENTATION CONTROL PLAN

MALONE WHEELER

SINCE 1975

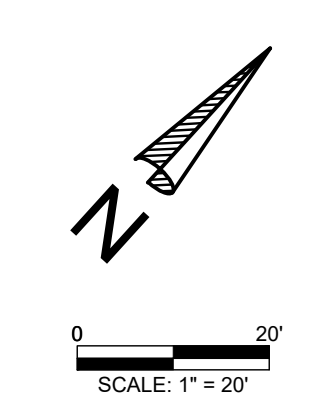
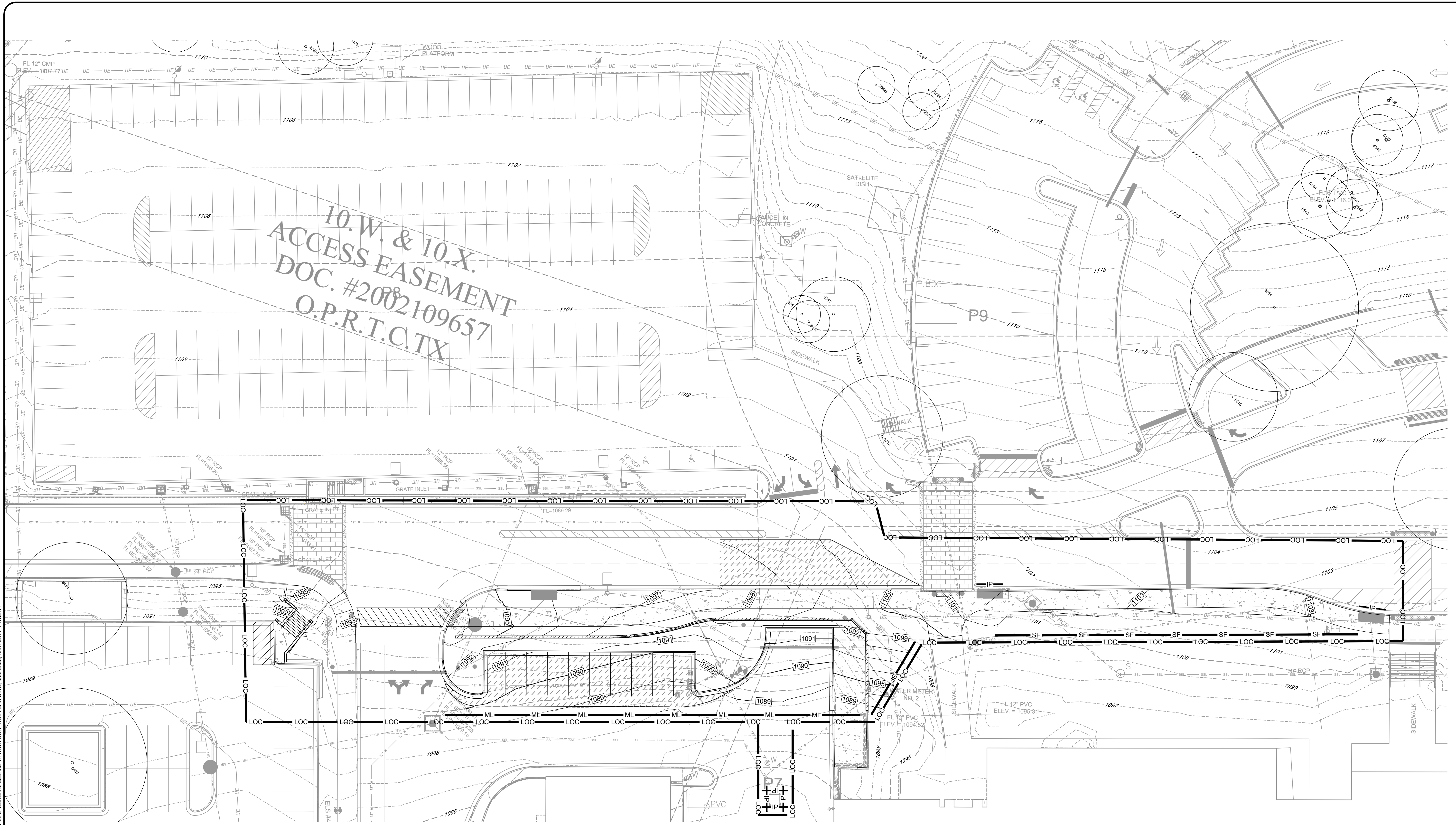
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

5113 Southwest Pkwy, Suite 240
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



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 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023

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- LEGEND**
- PROPERTY BOUNDARY
 - PLAT BOUNDARY
 - - - LOP LIMITS OF PROJECT
 - - - LOC LIMITS OF CONSTRUCTION
 - SF SILT FENCE
 - JH SILT FENCE W/ J HOOKS
 - IP INLET PROTECTION
 - TP TREE PROTECTION
 - ML MULCH LOG
 - RB ROCK BERM
 - SCE CONTRACTOR'S STAGING/SPOILS AREA
 - PROPOSED FINISHED GRADE
 - (T) TREE TO REMAIN
 - (R) TREE TO BE REMOVED

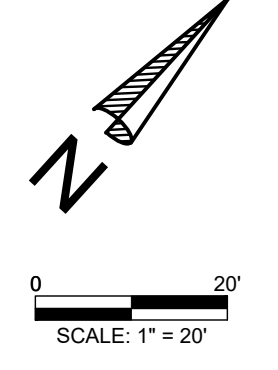
NO.	DATE	REVISION

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
CAFETERIA PARKING EROSION & SEDIMENTATION CONTROL PLAN

MALONE ★ WHEELER
SINCE 1975
 CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023



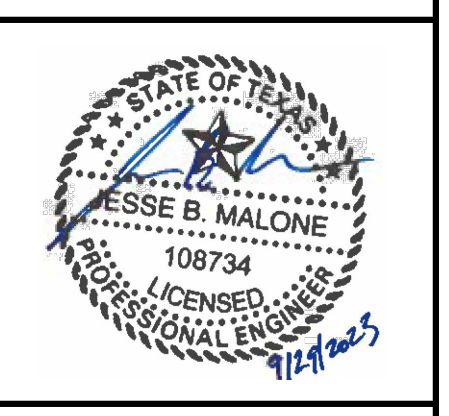
LEGEND

	PROPERTY BOUNDARY
	PLAT BOUNDARY
	LIMITS OF PROJECT
	LIMITS OF CONSTRUCTION
	SILT FENCE
	SILT FENCE W/ J HOOKS
	INLET PROTECTION
	TREE PROTECTION
	MULCH LOG
	ROCK BERM
	CONTRACTOR'S STAGING/SPOILS AREA
	STABILIZED CONSTRUCTION ENTRANCE
	PROPOSED FINISHED GRADE
	TREE TO REMAIN
	TREE TO BE REMOVED

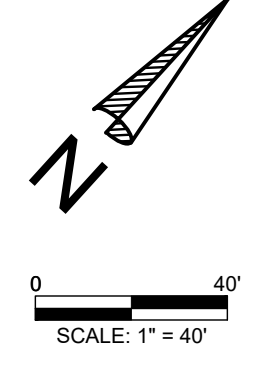
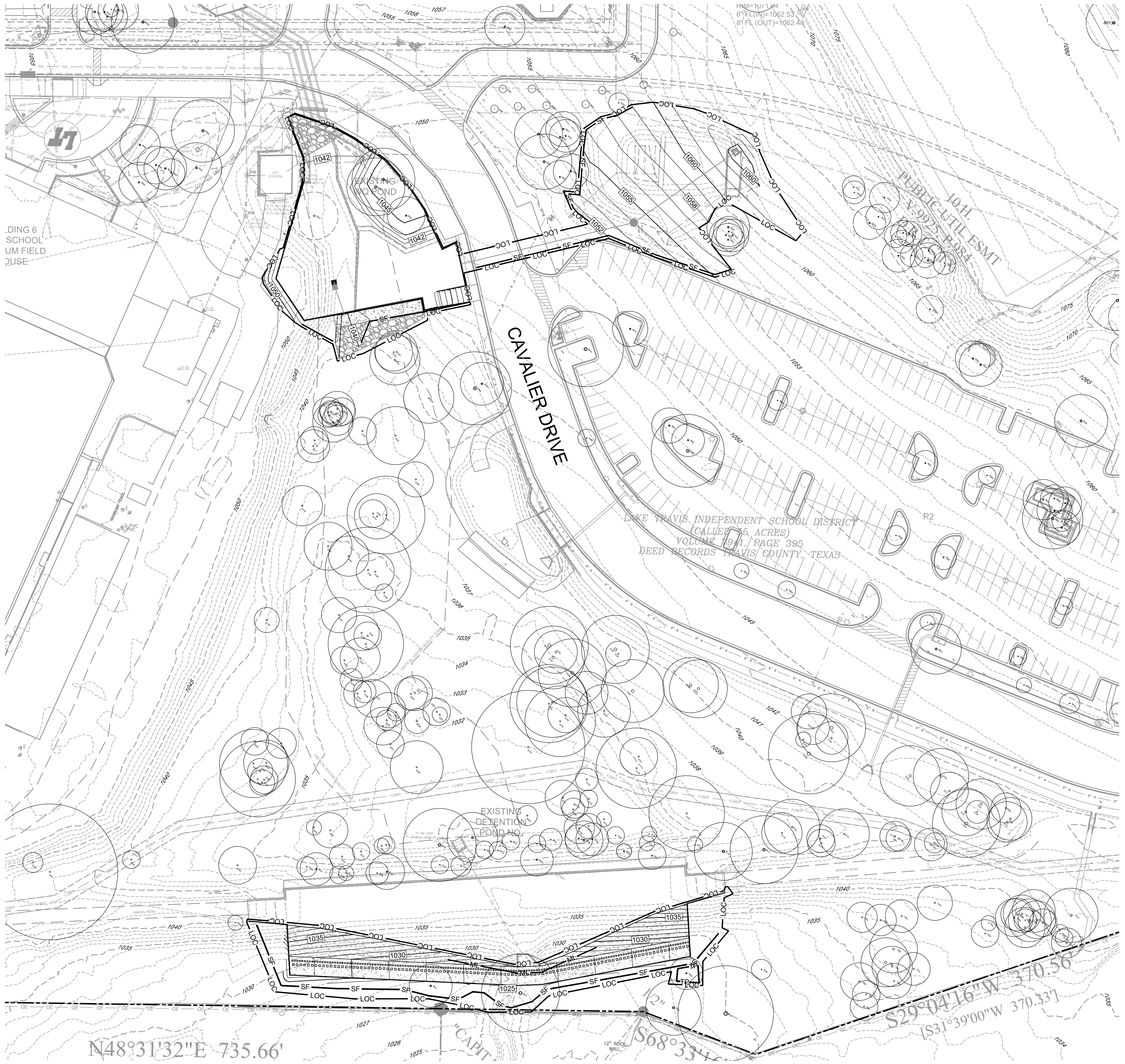
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
ANNEX BLDG 1 PARKING EROSION & SEDIMENTATION CONTROL PLAN

MALONE WHEELER
SINCE 1975
 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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 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023



LEGEND

	PROPERTY BOUNDARY
	PLAT BOUNDARY
	LOP LIMITS OF PROJECT
	LOC LIMITS OF CONSTRUCTION
	SF SILT FENCE
	JH SILT FENCE W/ J HOOKS
	IP INLET PROTECTION
	TP TREE PROTECTION
	ML MULCH LOG
	ROCK BERM
	CONTRACTOR'S STAGING/SPOILS AREA
	STABILIZED CONSTRUCTION ENTRANCE
	PROPOSED FINISHED GRADE
	TREE TO REMAIN
	TREE TO BE REMOVED

NO.	DATE	REVISION	BY

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

WATER QUALITY POND EROSION & SEDIMENTATION CONTROL PLAN

MALONE WHEELER
SINCE 1975

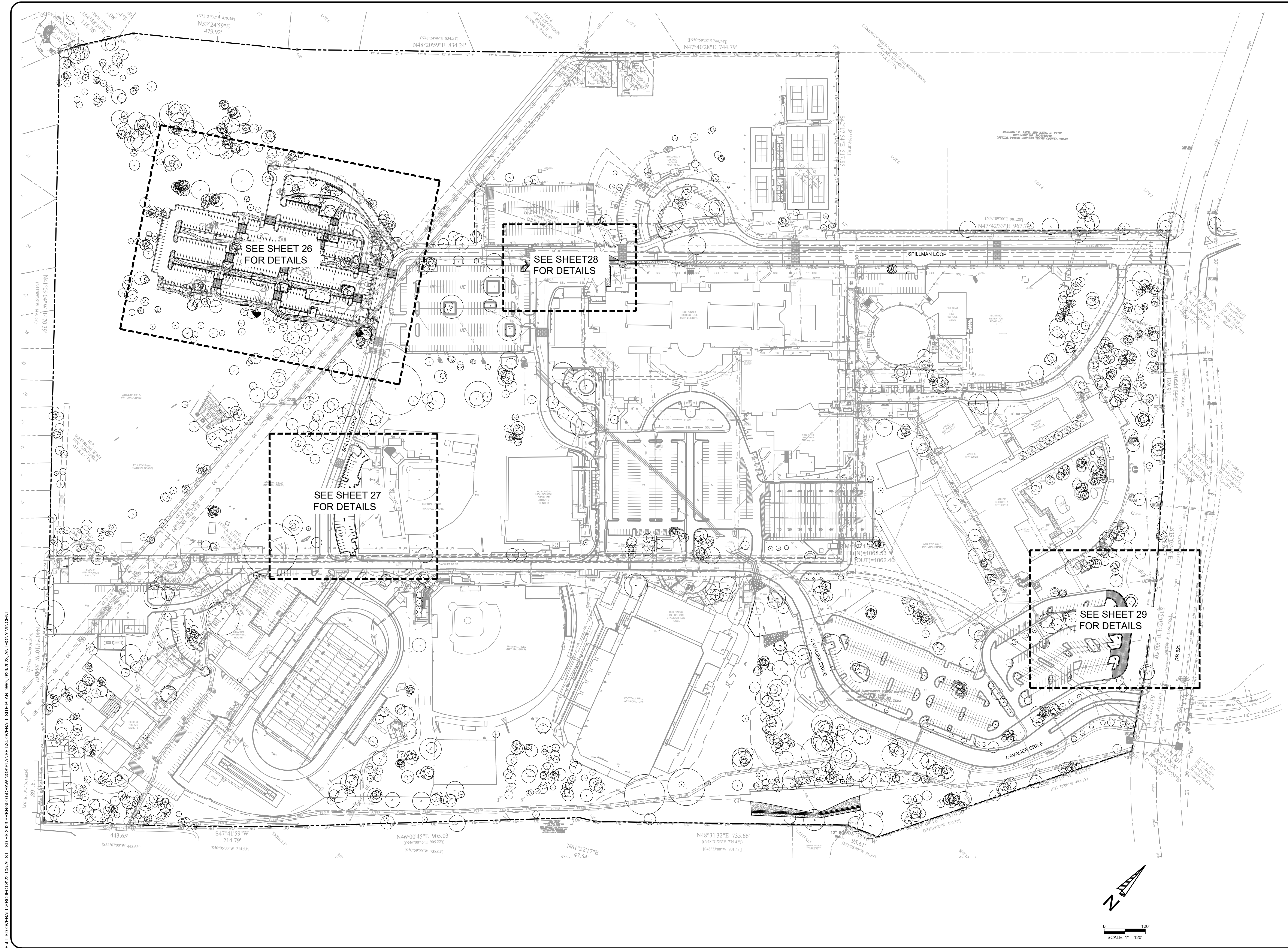
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

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



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023

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NO.	DATE	REVISION	BY

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

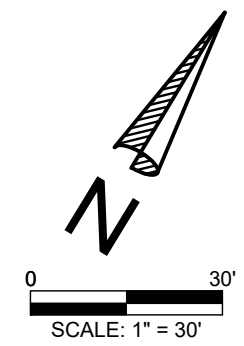
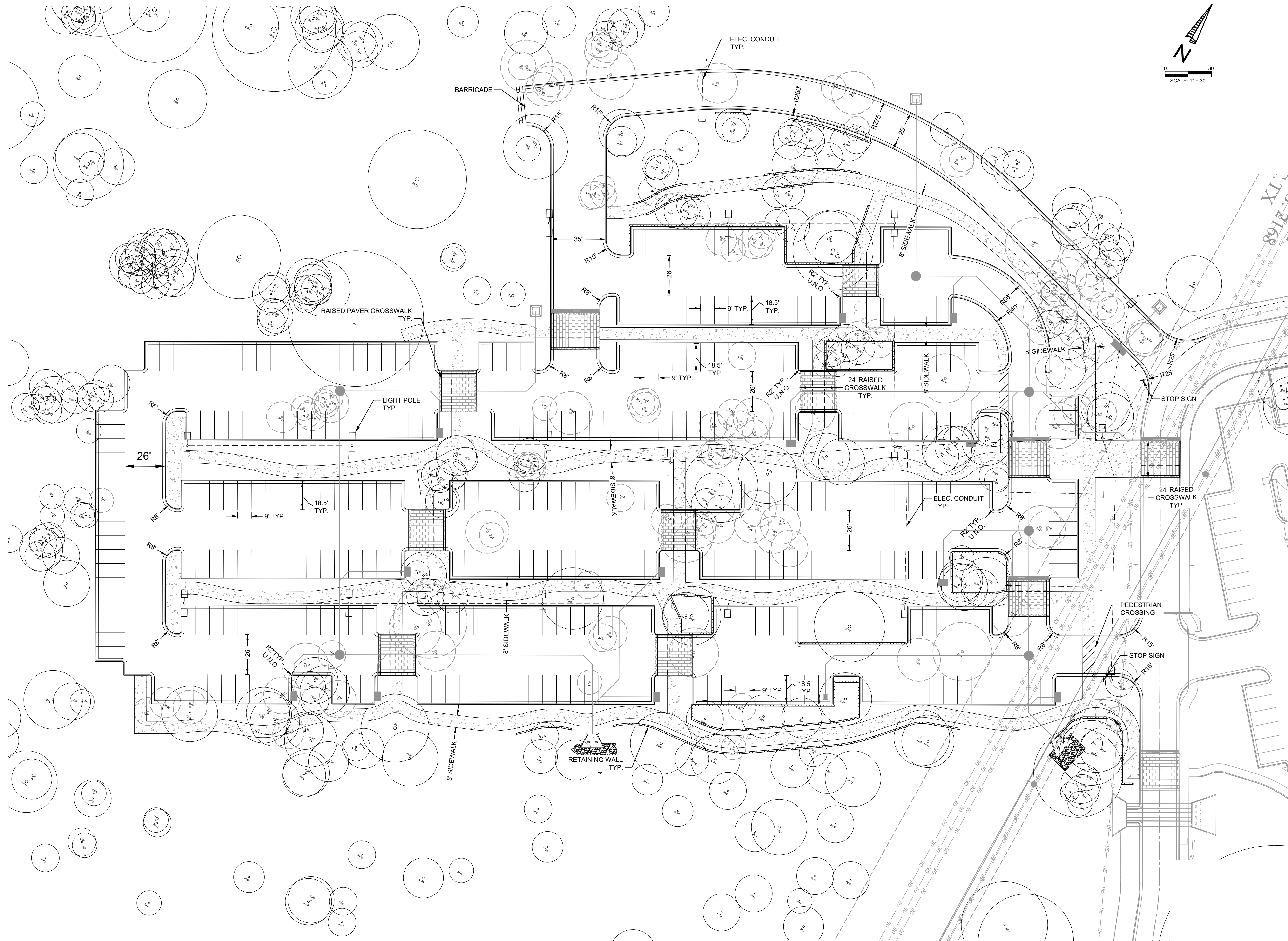
OVERALL SITE PLAN

MALONE WHEELER INC. SINCE 1975
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023

FLUTSD OVERALL PROJECTS: 2-105-AUS-LTSD HS 2023 PRKNGLOT DRAWINGS PLAN SET 104 OVERALL SITE PLAN DWG. 9/29/2023. ANTHONY VINCENT



LEGEND

	BOUNDARY LINE
	PROP. CENTER LINE
	PROP. SIDEWALK
	PROP. FIRE LANE
	PROP. METAL FENCE
	PROP. CURB AND GUTTER
	PROP. SPILL CURB
	PROP. CONCRETE
	PROP. STORM SEWER
	PROP. ELEC. CONDUIT
	PROP. LIGHT POLE
	PROP. STORM INLET
	PROP. STORM MANHOLE
	PROP. SLOTTED DRAIN
	PROP. GRATE INLET
	PROP. AREA INLET
	PROP. RETAINING WALL

- NOTES:**
1. ALL CURBS SHALL BE SPILL CURBS.
 2. CONTRACTOR TO STAKE PROPOSED SIDEWALK. OWNER, ENGINEER & LANDSCAPE ARCHITECT MUST APPROVE STAKED SIDEWALK PRIOR TO CONSTRUCTION.
 3. 354 PARKING SPACES PROVIDED.

NO.	DATE	REVISION

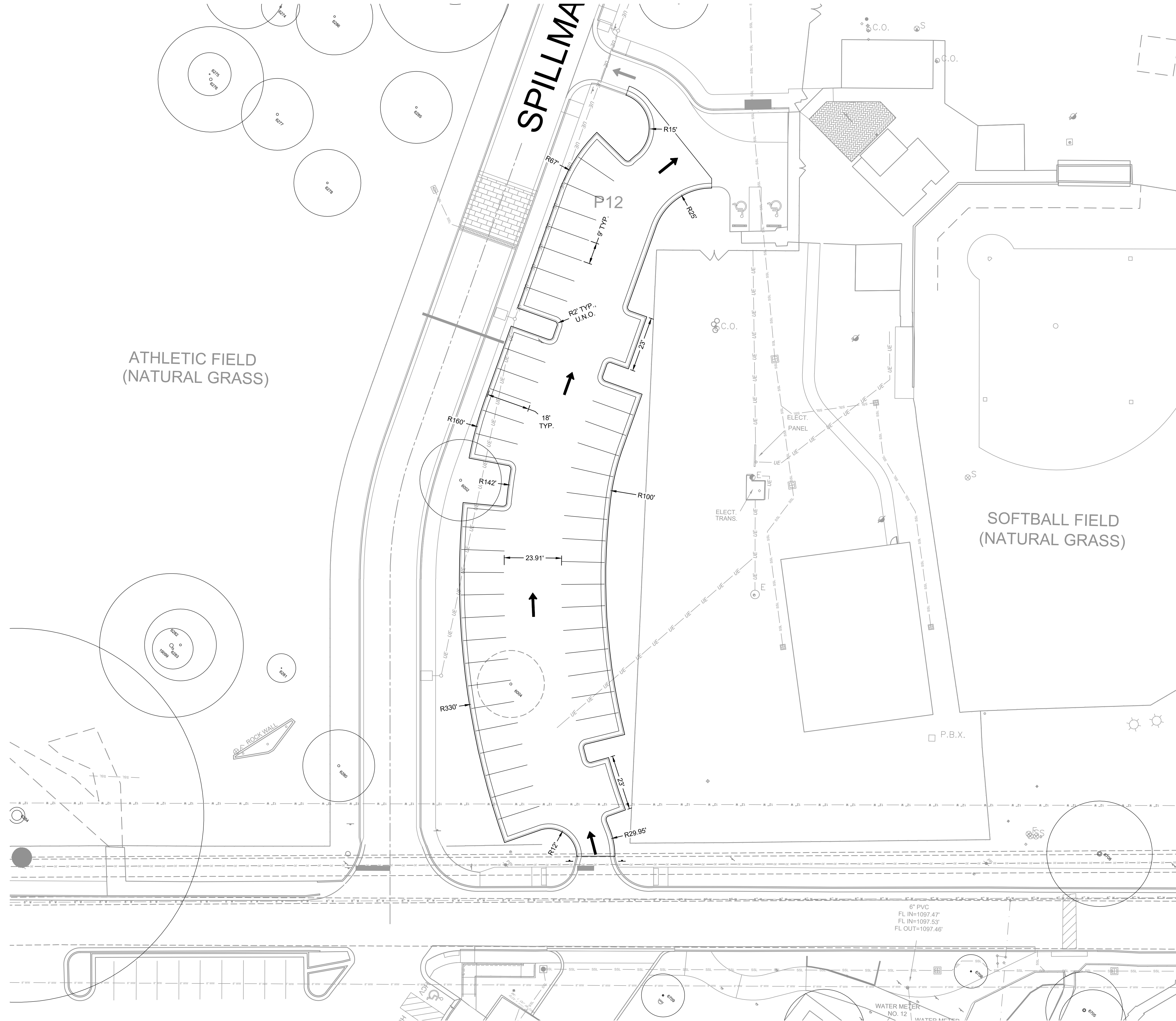
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
ENLARGED PARKING LOT

MALONE WHEELER
INC. 1976
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 240
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023

FILED OVERALL PROJECTS2-105-AUS LTSD HS 2023 PRKGLTDRWINGSPLANSET04 OVERALL SITE PLAN.DWG. 9/29/2023. ANTHONY VINCENT



0 20'
SCALE: 1" = 20'

LEGEND

- BOUNDARY LINE
- - - PROP. CENTER LINE
- ==== PROP. SIDEWALK
- ==== PROP. FIRE LANE
- PROP. METAL FENCE
- ==== PROP. CURB AND GUTTER
- ==== PROP. SPILL CURB
- ==== PROP. RIBBON CURB
- ==== PROP. CONCRETE
- PROP. STORM SEWER
- PROP. WATER LINE
- PROP. FORCE MAIN LINE
- PROP. WASTEWATER LINE
- PROP. LIGHT POLE
- PROP. STORM INLET
- PROP. STORM MANHOLE
- PROP. SLOTTED DRAIN
- PROP. GRATE INLET
- PROP. AREA INLET

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
ENLARGED SOFTBALL FIELD PARKING

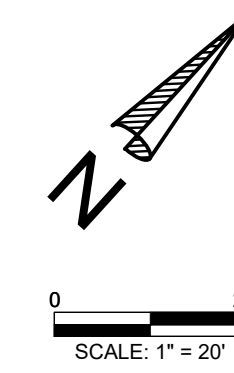
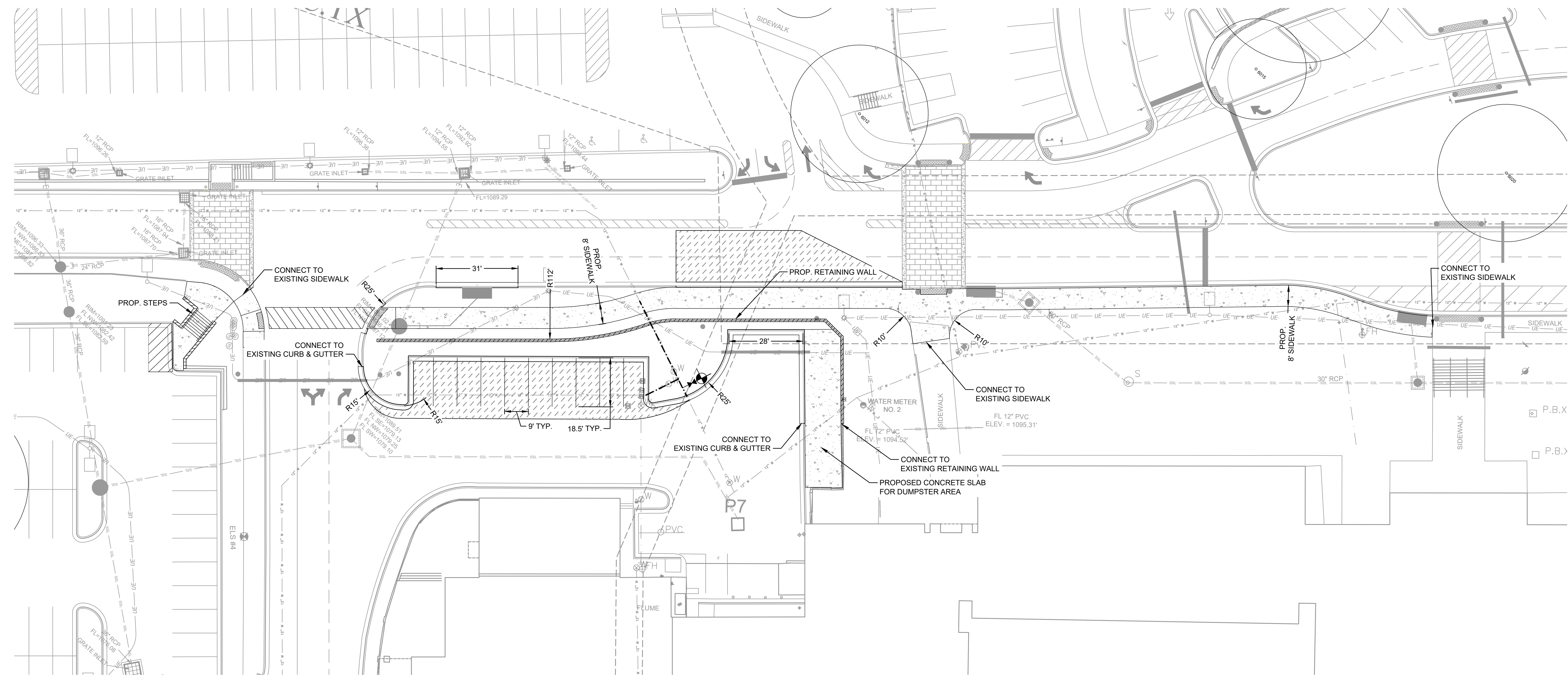
MALONE ★ WHEELER
INC. 1976

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023



LEGEND

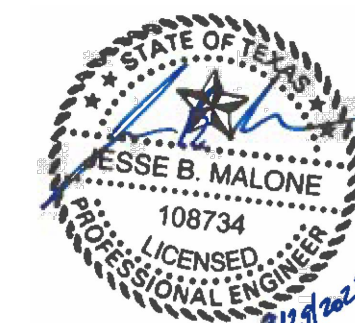
- BOUNDARY LINE
- PROP. CENTER LINE
- PROP. SIDEWALK
- PROP. FIRE LANE
- PROP. METAL FENCE
- PROP. CURB AND GUTTER
- PROP. SPILL CURB
- PROP. RIBBON CURB
- PROP. CONCRETE
- PROP. STORM SEWER
- PROP. WATER LINE
- PROP. FORCE MAIN LINE
- PROP. WASTEWATER LINE
- PROP. LIGHT POLE
- PROP. STORM INLET
- PROP. STORM MANHOLE
- PROP. SLOTTED DRAIN
- PROP. GRATE INLET
- PROP. AREA INLET

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

ENLARGED SITE PLAN CAFETERIA PARKING

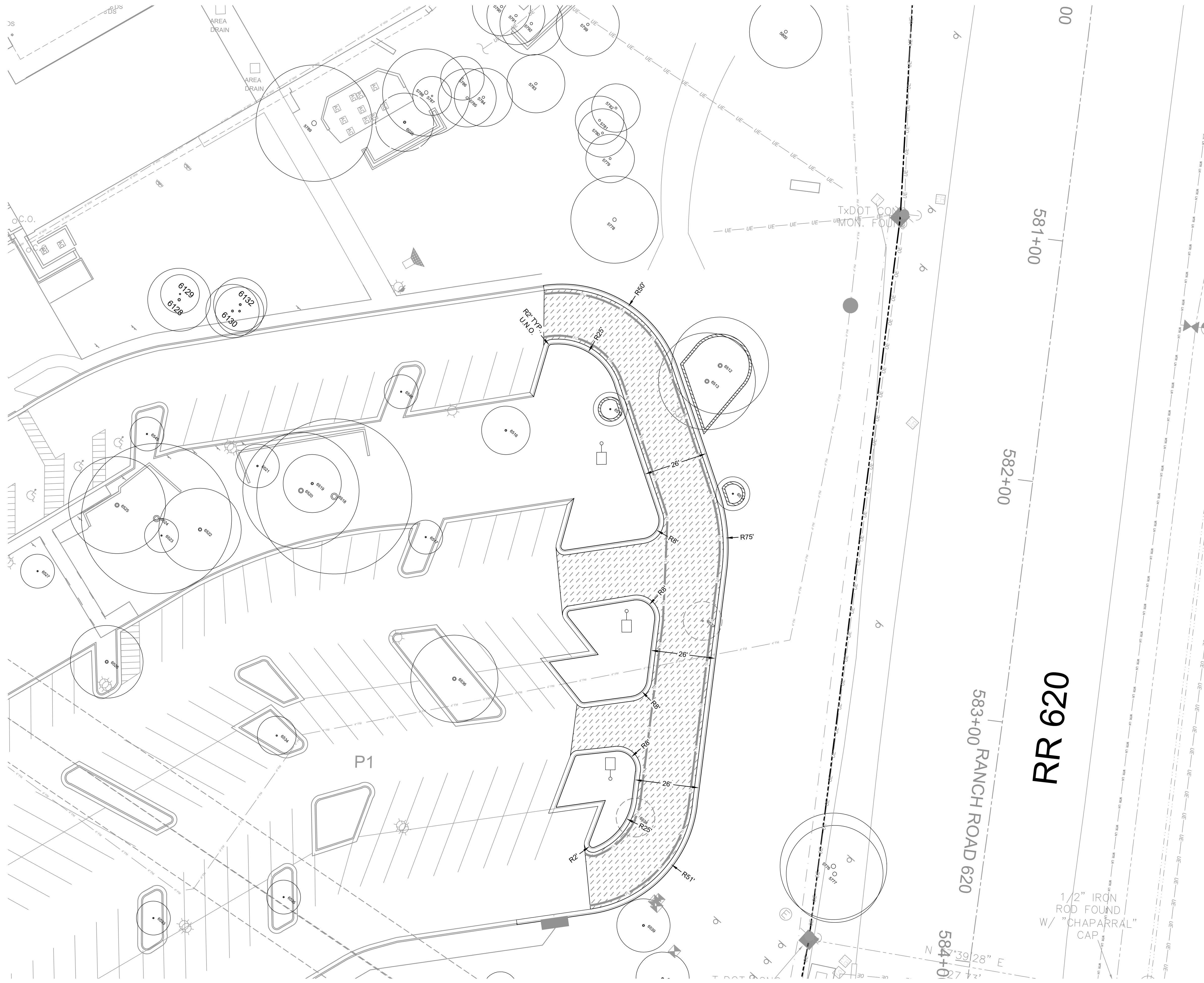
MALONE ★ WHEELER
INC. 1976

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

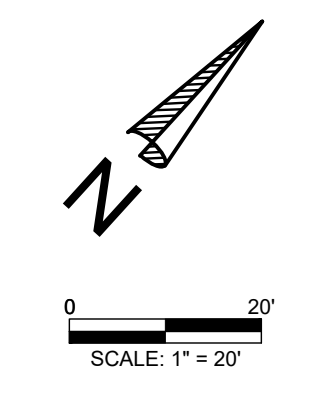


DESIGN BY: SGC
CHECKED BY: SGC
APPROVED BY: JBM
DATE: 9/29/2023

NO.	DATE	REVISION	BY



F:\UTISD\OVERALL\PROJECTS\2-105-AUS-LTSD-HS-2023-PRK\GLOTDRAWINGS\PLAN\B104-OVERALL SITE PLAN.DWG, 9/29/2023, ANTHONY VINCENT



LEGEND

- - - - - BOUNDARY LINE
- · - · - PROP. CENTER LINE
- ▬▬▬▬ PROP. SIDEWALK
- ▬▬▬▬ PROP. FIRE LANE
- ▬▬▬▬ PROP. METAL FENCE
- ▬▬▬▬ PROP. CURB AND GUTTER
- ▬▬▬▬ PROP. SPILL CURB
- ▬▬▬▬ PROP. RIBBON CURB
- ▬▬▬▬ PROP. CONCRETE
- - - - - PROP. STORM SEWER
- · - · - PROP. WATER LINE
- - - - - PROP. FORCE MAIN LINE
- - - - - PROP. WASTEWATER LINE
- - - - - PROP. LIGHT POLE
- PROP. STORM INLET
- PROP. STORM MANHOLE
- ▬ PROP. SLOTTED DRAIN
- ▬ PROP. GRATE INLET
- ▬ PROP. AREA INLET

NO.	DATE	REVISION	BY

<p style="text-align: center;">LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 3324 RANCH ROAD 620 SOUTH</p>	<p>ENLARGED SITE PLAN ANNEX BLDG 1 PARKING</p>
--	---

<p style="text-align: center; font-weight: bold; font-size: 1.2em;">MALONE ★ WHEELER</p> <p style="text-align: center; font-size: 0.8em;">SINCE 1976</p> <p style="text-align: center; font-size: 0.7em;">CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT</p> <p style="text-align: center; font-size: 0.7em;">5113 Southwest Pkwy, Suite 260 Austin, Texas 78735 Phone: (512) 899-0601 Fax: (512) 899-0655 Firm Registration No. F-786</p>	
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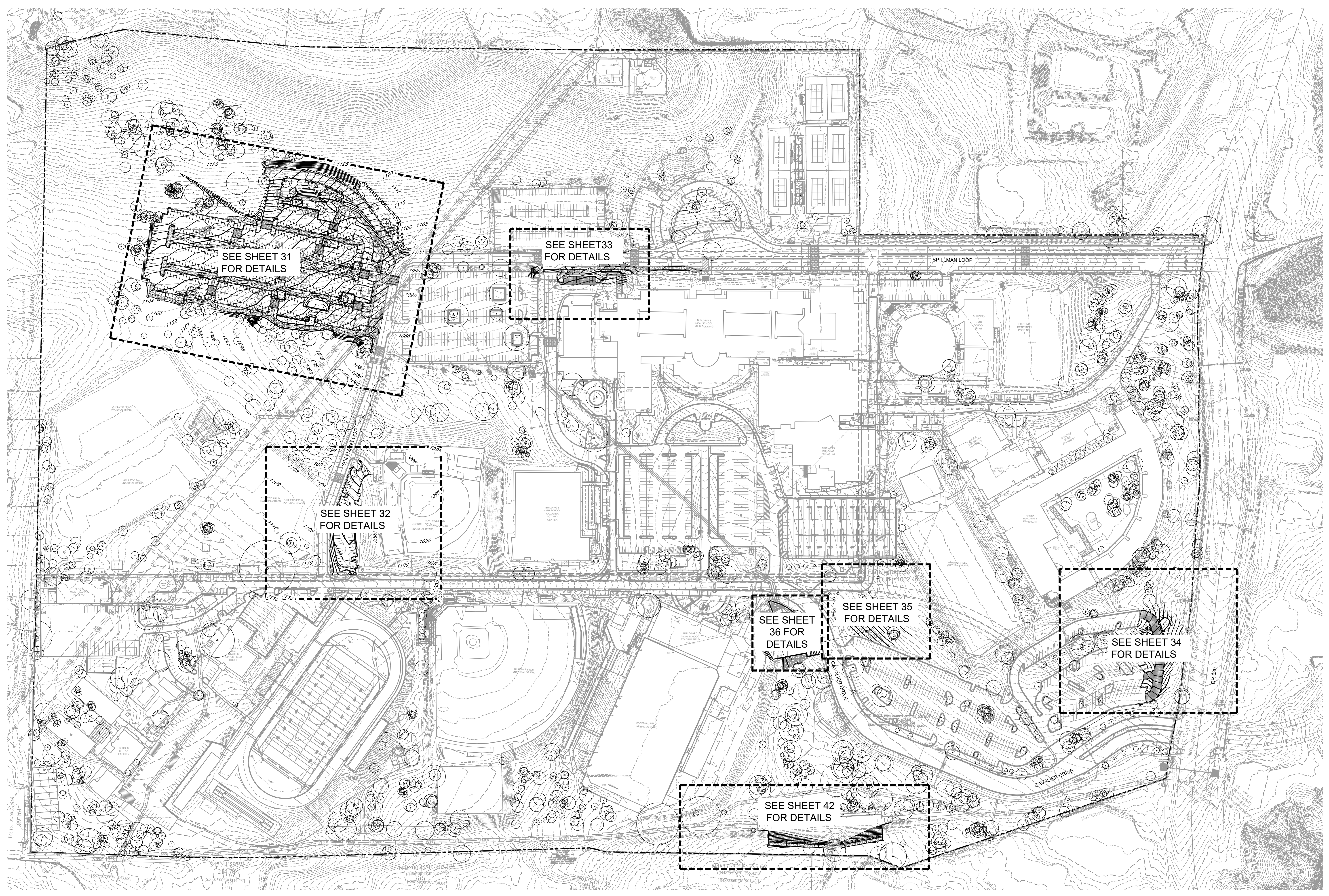
<p>DESIGN BY: SGC</p> <p>CHECKED BY: SGC</p> <p>APPROVED BY: JBM</p> <p>DATE: 9/29/2023</p>
<p>SHEET 29 OF 62</p>

RR 620

583+00 RANCH ROAD 620

1/2" IRON
ROD FOUND
W/ "CHAPARRAL"
CAP

F:\UTSD\OVERALL\PROJECTS\2-105-AUS\UTSD HS 2023\PRKGL\DRAWINGS\PLAN\ENLARGED GRADING PLAN POND FILL AREA.DWG, 9/29/2023, ANTHONY VINCENT



NO.	DATE	REVISION	BY

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

OVERALL GRADING PLAN

MALONE WHEELER
 INC. 1976

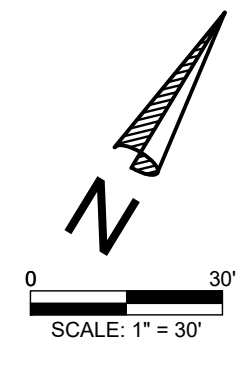
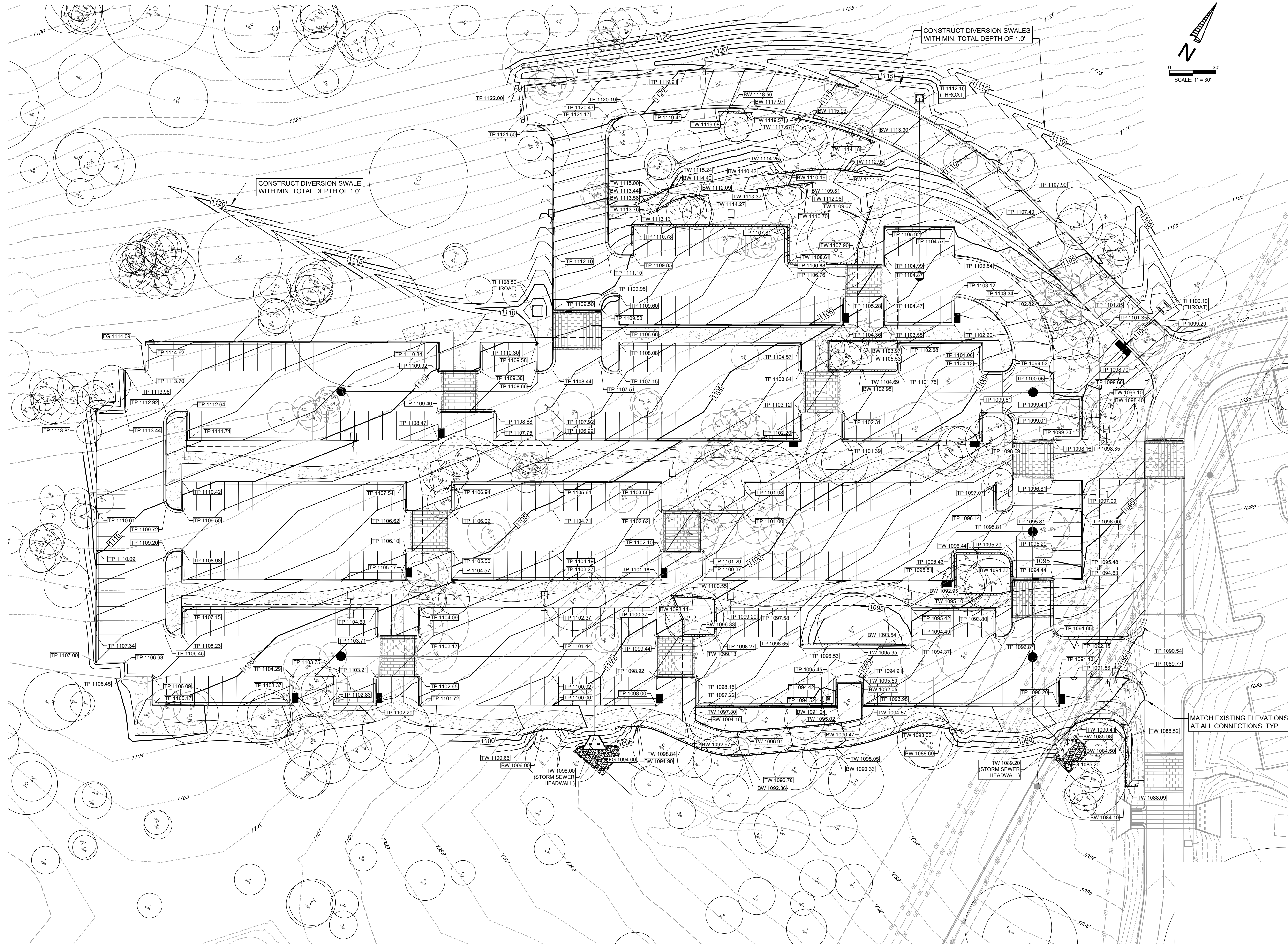
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

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



DESIGN BY: SGC
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 APPROVED BY: JBM
 DATE: 9/29/2023

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- LEGEND**
- BOUNDARY LINE
 - PROP. CENTER LINE
 - PROP. SIDEWALK
 - PROP. FIRE LANE
 - PROP. METAL FENCE
 - PROP. CURB AND GUTTER
 - PROP. SPILL CURB
 - PROP. RIBBON CURB
 - PROP. CONCRETE
 - PROP. STORM SEWER
 - PROP. WATER LINE
 - PROP. FORCE MAIN LINE
 - PROP. WASTEWATER LINE
 - PROP. LIGHT POLE
 - PROP. STORM INLET
 - PROP. STORM MANHOLE
 - PROP. SLOTTED DRAIN
 - PROP. GRATE INLET
 - PROP. AREA INLET

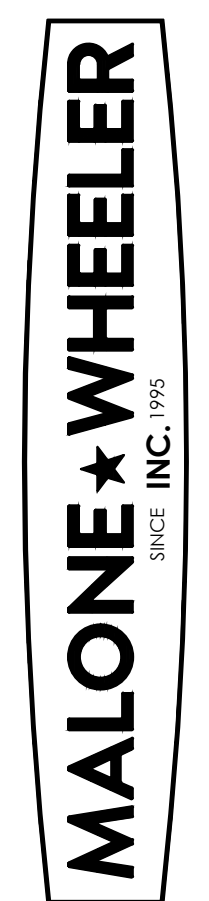
- SPOT ELEVATION KEY**
- CS CONCRETE SURFACE
 - TP TOP OF PAVEMENT
 - SW TOP OF SIDEWALK
 - TW TOP OF WALL
 - BW BOTTOM OF WALL
 - HP HIGH POINT
 - TI TOP OF INLET
 - FFE FINISHED FLOOR ELEVATION
 - FG FINISHED GRADE

- NOTE:**
1. ALL SPOT ELEVATIONS ARE GROUND/PAVEMENT UNLESS NOTED OTHERWISE.
 2. WALL ELEVATIONS ARE FOR GRADING PURPOSES ONLY AND A STRUCTURAL DESIGN IS REQUIRED BY OTHERS.
 3. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [ANSI 403.3]
 4. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [ANSI 403.3]

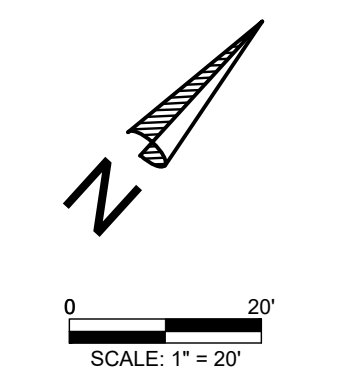
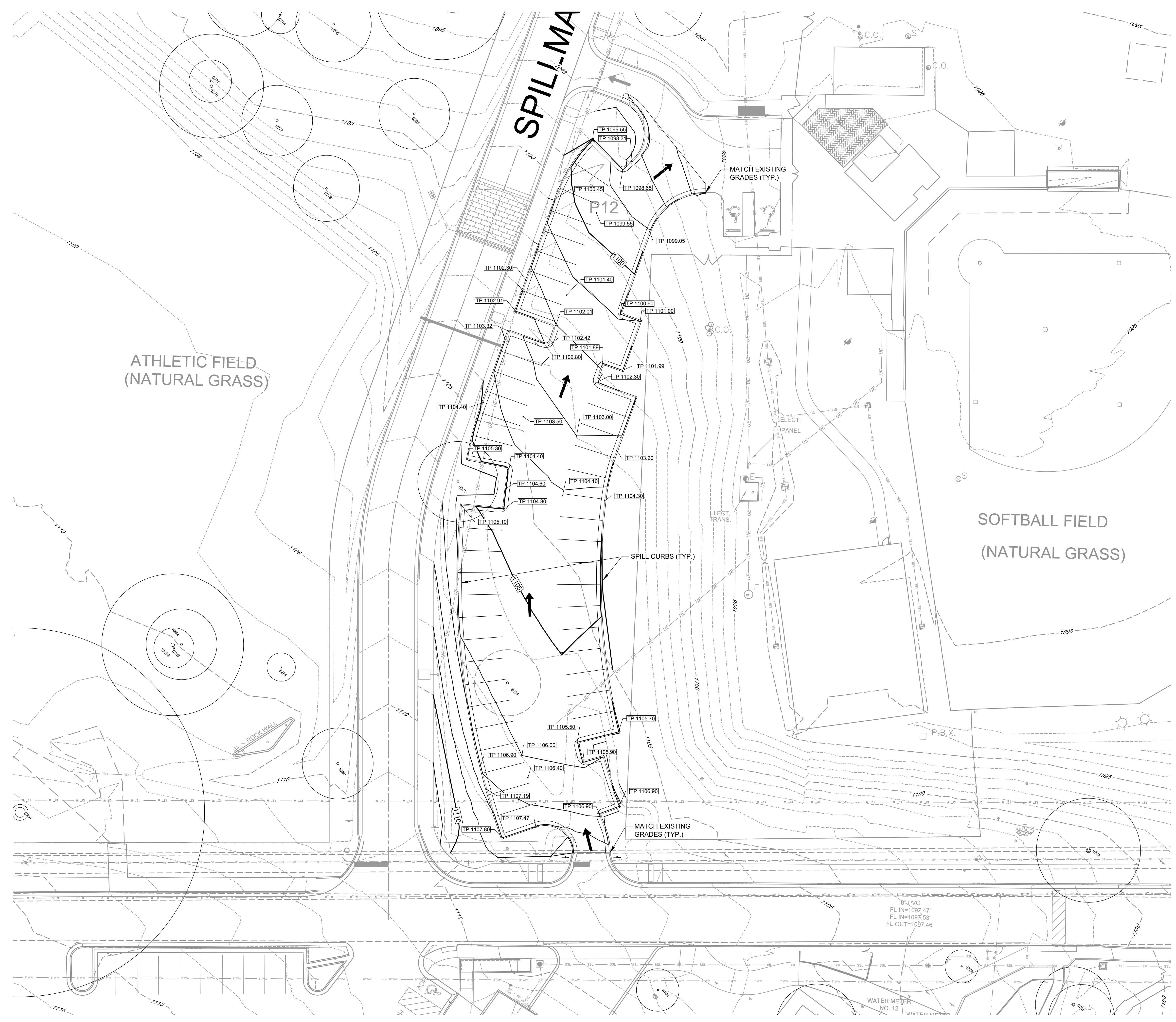
NO.	DATE	REVISION

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

ENLARGED GRADING PLAN PARKING LOT



DESIGN BY: SGC
 CHECKED BY: SGC
 APPROVED BY: JBM
 DATE: 9/29/2023



LEGEND

---	BOUNDARY LINE
- - -	PROP. CENTER LINE
==	PROP. SIDEWALK
---	PROP. FIRE LANE
---	PROP. METAL FENCE
---	PROP. CURB AND GUTTER
---	PROP. SPILL CURB
---	PROP. RIBBON CURB
---	PROP. CONCRETE
---	PROP. STORM SEWER
---	PROP. WATER LINE
---	PROP. FORCE MAIN LINE
---	PROP. WASTEWATER LINE
□	PROP. LIGHT POLE
■	PROP. STORM INLET
●	PROP. STORM MANHOLE
▣	PROP. SLOTTED DRAIN
■	PROP. GRATE INLET
□	PROP. AREA INLET

SPOT ELEVATION KEY

CS	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
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE

- NOTE:**
1. ALL SPOT ELEVATIONS ARE GROUND/PAVEMENT UNLESS NOTED OTHERWISE.
 2. WALL ELEVATIONS ARE FOR GRADING PURPOSES ONLY AND A STRUCTURAL DESIGN IS REQUIRED BY OTHERS.
 3. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [ANSI 403.3]
 4. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [ANSI 403.3]

BY	
REVISION	
DATE	
NO.	

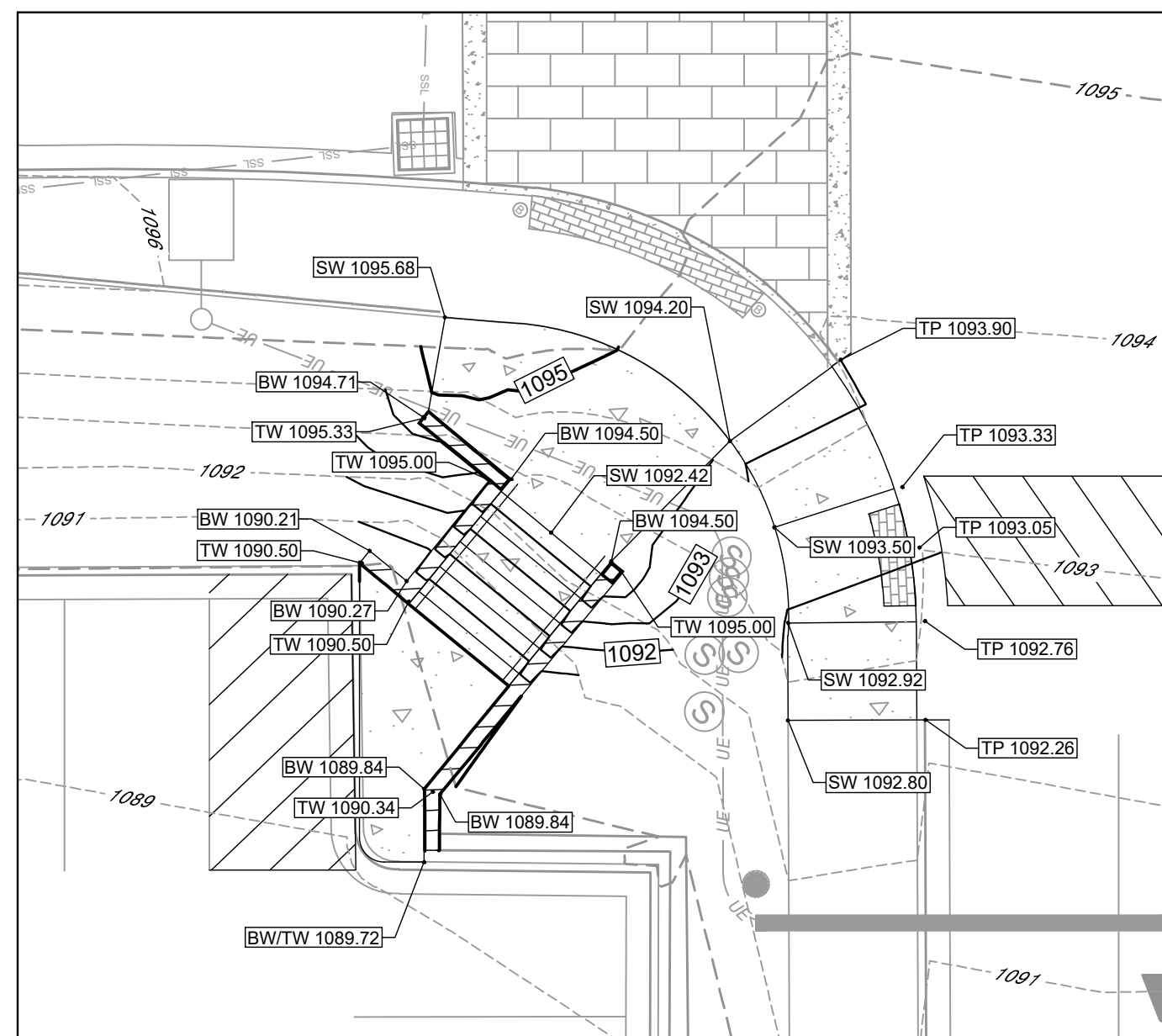
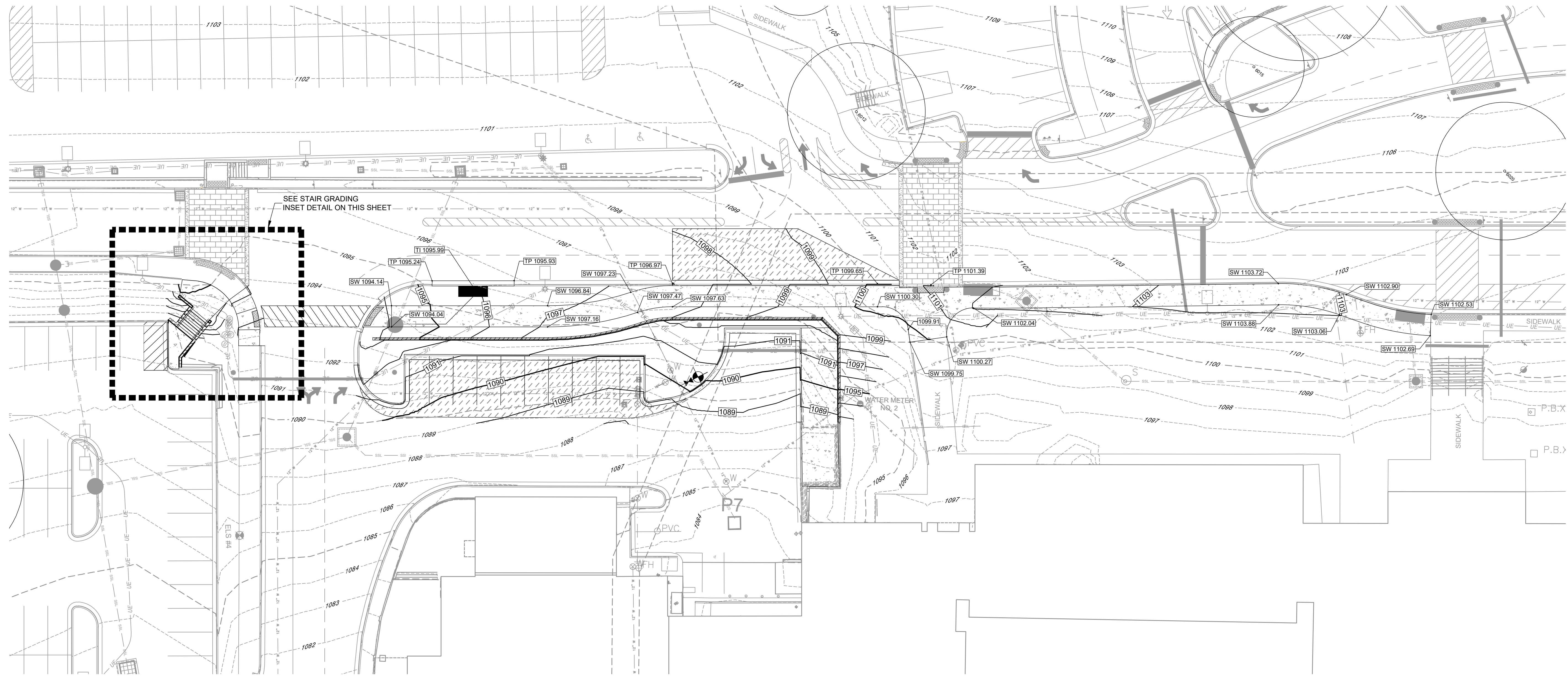
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
 3324 RANCH ROAD 620 SOUTH
 ENLARGED GRADING PLAN SOFTBALL FIELD PARKING

MALONE WHEELER INC. SINCE 1975
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 240
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786

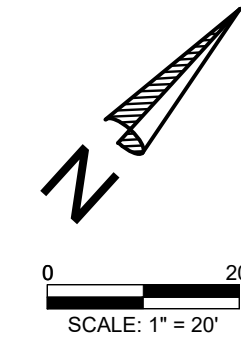


DESIGN BY:	SGC
CHECKED BY:	SGC
APPROVED BY:	JBM
DATE:	9/29/2023

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STAIR GRADING INSET DETAIL
SCALE: 1" = 10'



SPOT ELEVATION KEY

- CS 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
- FFE FINISHED FLOOR ELEVATION
- FG FINISHED GRADE

LEGEND

- BOUNDARY LINE
- - - PROP. CENTER LINE
- PROP. SIDEWALK
- PROP. FIRE LANE
- PROP. METAL FENCE
- PROP. CURB AND GUTTER
- PROP. SPILL CURB
- PROP. RIBBON CURB
- PROP. CONCRETE
- PROP. STORM SEWER
- PROP. WATER LINE
- PROP. FORCE MAIN LINE
- PROP. WASTEWATER LINE
- + PROP. LIGHT POLE
- PROP. STORM INLET
- PROP. STORM MANHOLE
- PROP. SLOTTED DRAIN
- PROP. GRATE INLET
- PROP. AREA INLET

NOTE:

1. ALL SPOT ELEVATIONS ARE GROUND/PAVEMENT UNLESS NOTED OTHERWISE.
2. WALL ELEVATIONS ARE FOR GRADING PURPOSES ONLY AND A STRUCTURAL DESIGN IS REQUIRED BY OTHERS.
3. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [ANSI 403.3]
4. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [ANSI 403.3]

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

ENLARGED GRADING PLAN CAFETERIA PARKING

MALONE WHEELER
INC. 1976

CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
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Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
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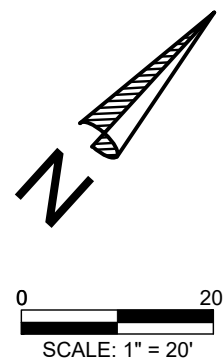
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SHEET 33
OF 62

F:\UTSD\OVERALL\PROJECTS\2-105-AUS LTSD HS 2023 PRKNG\DRAWINGS\PLAN\ENLARGED GRADING PLAN POND FILL AREA.DWG. 9/29/2023. ANTHONY VINCENT

NO.	DATE	REVISION	BY

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SCALE: 1" = 20'

LEGEND

- BOUNDARY LINE
- PROP. CENTER LINE
- PROP. SIDEWALK
- PROP. FIRE LANE
- PROP. METAL FENCE
- PROP. CURB AND GUTTER
- PROP. SPILL CURB
- PROP. RIBBON CURB
- PROP. CONCRETE
- PROP. STORM SEWER
- PROP. WATER LINE
- PROP. FORCE MAIN LINE
- PROP. WASTEWATER LINE
- PROP. LIGHT POLE
- PROP. STORM INLET
- PROP. STORM MANHOLE
- ▬ PROP. SLOTTED DRAIN
- PROP. GRATE INLET
- PROP. AREA INLET

SPOT ELEVATION KEY

- CS 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
- FFE FINISHED FLOOR ELEVATION
- FG FINISHED GRADE

NOTE:

1. ALL SPOT ELEVATIONS ARE GROUND/PAVEMENT UNLESS NOTED OTHERWISE.
2. WALL ELEVATIONS ARE FOR GRADING PURPOSES ONLY AND A STRUCTURAL DESIGN IS REQUIRED BY OTHERS.
3. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [ANSI 403.3]
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NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
ENLARGED GRADING PLAN ANNEX BLDG 1 PARKING

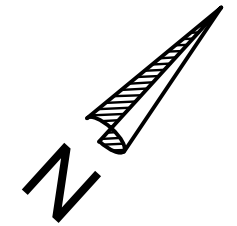
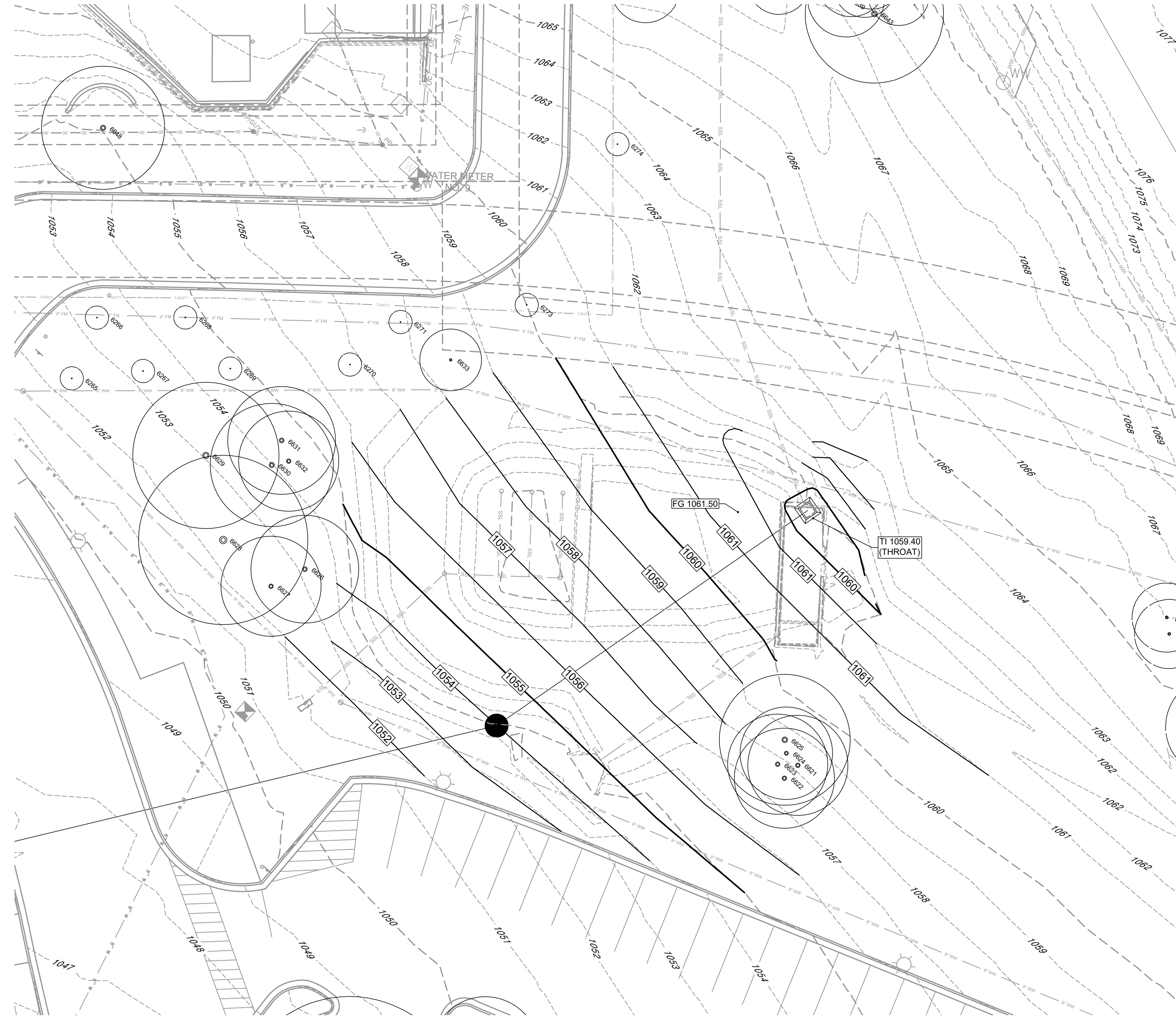
MALONE ★ WHEELER
INC. SINCE 1975

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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SCALE: 1" = 20'

LEGEND

	BOUNDARY LINE
	PROP. CENTER LINE
	PROP. SIDEWALK
	PROP. FIRE LANE
	PROP. METAL FENCE
	PROP. CURB AND GUTTER
	PROP. SPILL CURB
	PROP. RIBBON CURB
	PROP. CONCRETE
	PROP. STORM SEWER
	PROP. WATER LINE
	PROP. FORCE MAIN LINE
	PROP. WASTEWATER LINE
	PROP. LIGHT POLE
	PROP. STORM INLET
	PROP. STORM MANHOLE
	PROP. SLOTTED DRAIN
	PROP. GRATE INLET
	PROP. AREA INLET

SPOT ELEVATION KEY

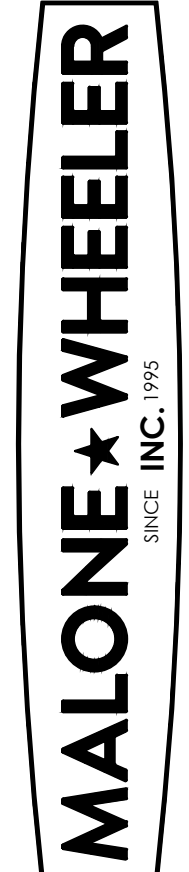
CS	CONCRETE SURFACE
TP	TOP OF PAVEMENT
SW	TOP OF SIDEWALK
TW	TOP OF WALL
BW	BOTTOM OF WALL
HP	HIGH POINT
TI	TOP OF INLET
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE

- NOTE:**
1. ALL SPOT ELEVATIONS ARE GROUND/PAVEMENT UNLESS NOTED OTHERWISE.
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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
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ENLARGED GRADING PLAN POND FILL AREA

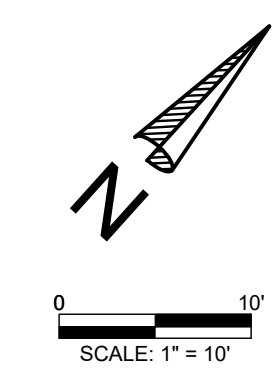
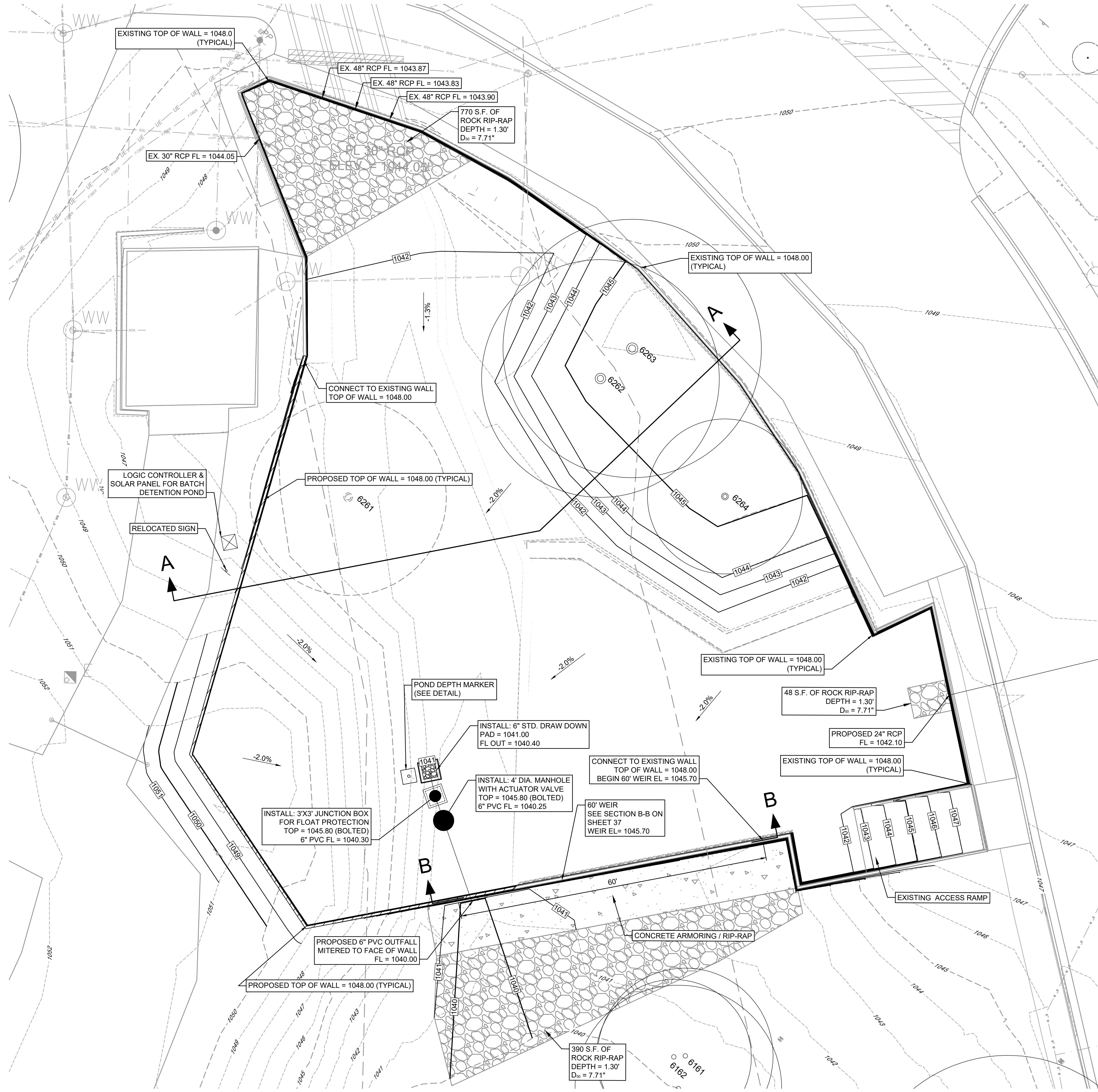


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LEGEND

- PROPERTY BOUNDARY
- - - - - EXIST. GROUND CONTOUR
- 940 --- PROP. FINISHED CONTOUR
- FG 100.00 --- X PROP. SPOT ELEVATION
- PROP. CURB
- PROP. SIDEWALK
- PROP. BUILDING SETBACK
- PROP. EASEMENT
- PROP. HANDRAIL / FENCE
- PROP. RETAINING WALL
- PROP. STORM SEWER
- PROP. STORM SEWER MANHOLE
- PROP. GRATE INLET
- ▽ PROP. HEADWALL

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

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WATER QUALITY POND 1 PLAN

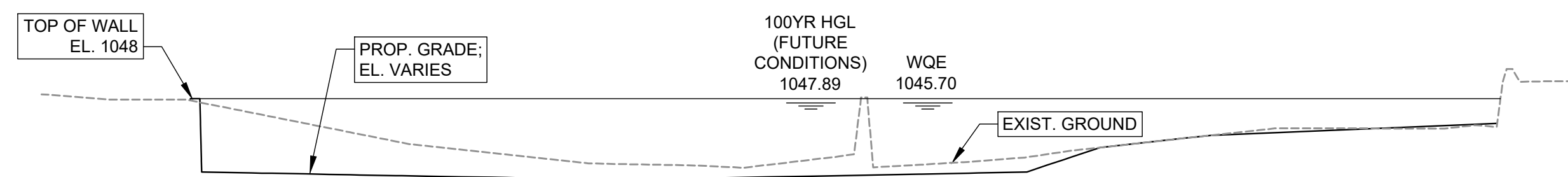
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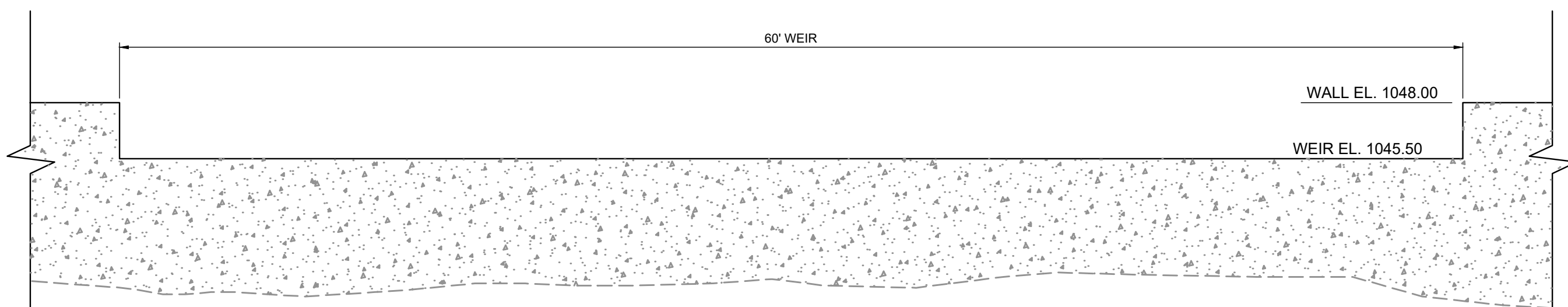
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POND 1 SECTION A-A
APPROX. SCALE: 1" = 10'



WEIR STRUCTURE SECTION B-B
APPROX. SCALE: 1" = 5'

POND "1A" WEIR CALCULATIONS
100yr.

BROAD-CRESTED RECTANGULAR WEIR:

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

WHERE:

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

GIVEN:

- Q100= 600
 - C= 2.7
 - H= 2.5
 - L= 60
- NOTE: WEIR SIZED FOR FUTURE CONDITIONS

CALCULATIONS:

SOLVE FOR LENGTH

$$L = \frac{600}{2.7 \cdot 2.5^{3/2}} = \frac{600}{10.6727} = 56$$

SOLVE FOR HEAD

$$H = \left(\frac{600}{2.7 \cdot 60} \right)^{2/3} = \left(\frac{600}{162} \right)^{2/3} = \left(3.7037 \right)^{2/3} = 2.39$$

USE 60' WEIR AT 2.39' OF HEAD

OPERATIONS & TEST CYCLE CONTROL FOR BATCH DETENTION POND VALVE CONTROLLER

SYSTEM OVERVIEW
-THIS SYSTEM SHALL UTILIZE A SINGLE FLOAT SWITCH TO ACTIVATE TIMERS THAT CONTROL A SINGLE VALVE OPEN AND CLOSE COMMANDS.

MODES OF OPERATION
-THE SYSTEM SHALL HAVE THREE BASIC MODES OF OPERATION: OFF, MANUAL, AND AUTOMATIC.
-WHEN THE ON/OFF SWITCH IS IN THE 'OFF' POSITION, POWER SHALL NOT BE PROVIDED TO THE VALVE ACTUATOR OR VALVE PROGRAMMABLE LOGIC CONTROLLER (PLC).
-WHEN THE ON/OFF SWITCH IS IN THE 'ON' POSITION, THE SYSTEM SHALL OPERATE BASED ON THE OPEN/AUTO/CLOSE SWITCH POSITION. THE SOLAR CIRCUIT IS FULLY OPERATIONAL, TO CHARGE THE BATTERY, WHILE THE SWITCH IS IN THE 'ON' OR 'OFF' POSITION.

MANUAL CONTROL
-THE OPEN/AUTO/CLOSE SWITCH SHALL HAVE TWO MANUAL POSITIONS, OPEN AND CLOSE.
-THERE SHOULD BE A FIVE SECOND DELAY BEFORE THEY SYSTEM SHALL RECOGNIZE THE AUTO POSITION, SO THE VALVE CAN BE SWITCHED FROM OPEN TO CLOSE WITHOUT AUTOMATIC OPERATION.
-WHEN THE OPEN/AUTO/CLOSE SWITCH IS IN THE OPEN POSITION, THE VALVE SHALL OPEN AND STAY OPEN. WHEN THE OPEN/AUTO/CLOSE SWITCH IS IN THE CLOSE POSITION, THE VALVE SHALL CLOSE AND STAY CLOSED.

AUTOMATIC CONTROL
-VALVE SHALL HAVE A DEFAULT CLOSED POSITION. AN INSTALLED FLOAT SWITCH SHALL INDICATE THE PRESENCE OF WATER FOLLOWING A RAIN EVENT.
-UPON ACTIVATION OF THE FLOAT SWITCH, A 12 HOUR DETENTION TIMER SHALL BE STARTED. THE VALVE SHALL REMAIN CLOSED.
-AFTER THE 12 HOUR TIMER EXPIRES, THE VALVE SHALL OPEN. VALVE SHALL

REMAIN OPEN WHILE WATER IS DRAINING AND REMAIN OPEN AS LONG AS THE FLOAT SWITCH CONTACT REMAINS CLOSED.
-WHEN THE WATER LEVEL FALLS BELOW THE FLOAT SWITCH ELEVATION, AND THE FLOAT SWITCH CONTACT OPENS, A 2 HOUR TIMER SHALL BE STARTED. AFTER THE 2 HOUR TIMER EXPIRES, THE VALVE SHALL CLOSE.
-WHEN THE VALVE CLOSES, THE SYSTEM BEGINS A STANDBY PERIOD, WITH THE VALVE CLOSED, UNTIL THE WATER LEVEL RISES ABOVE THE FLOAT SWITCH ELEVATION.

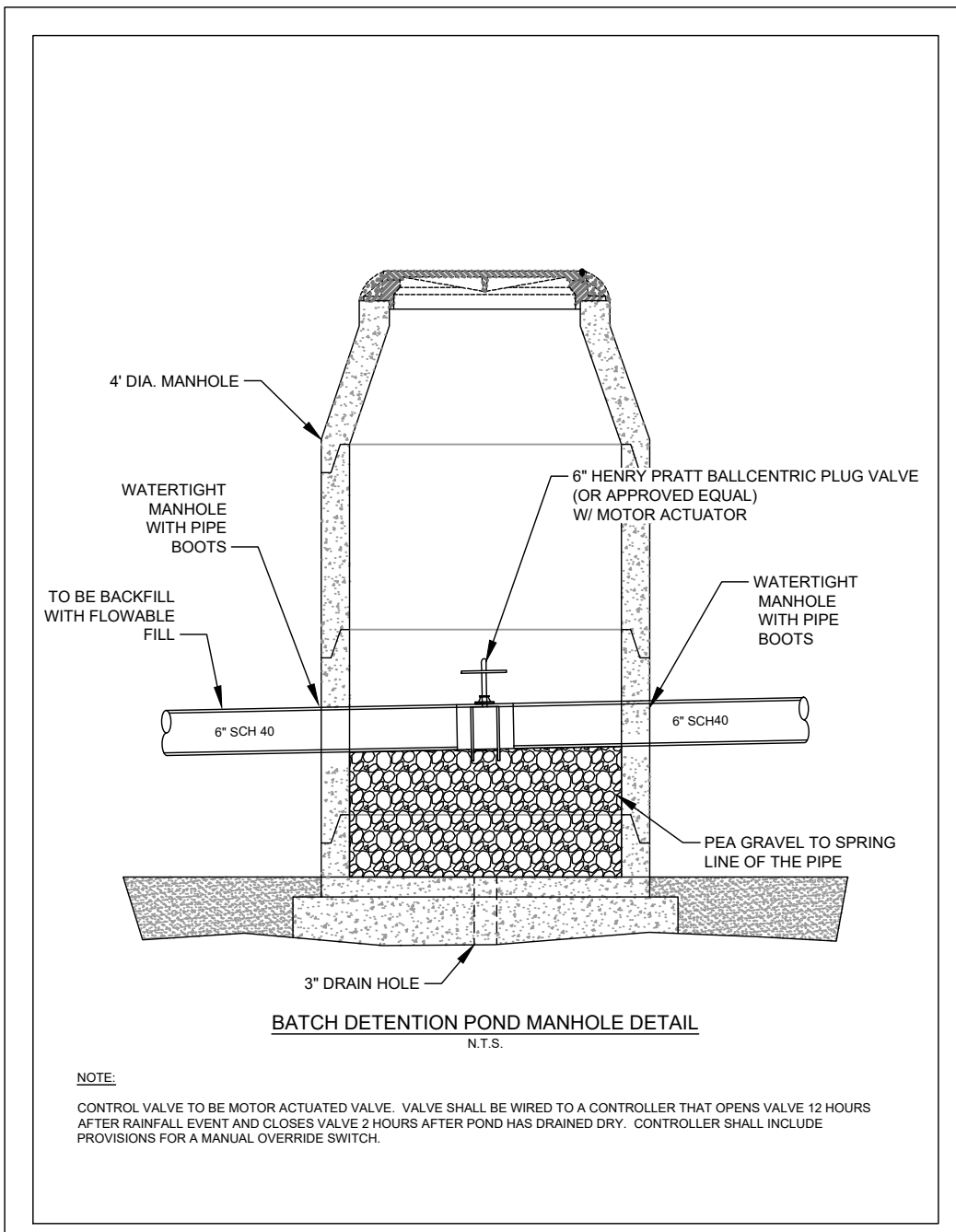
ADDITIONAL FEATURES
THE FOLLOWING FEATURES SHALL BE PART OF THE NORMAL CONTROL SEQUENCE OF OPERATION.

VALVE EXERCISE
-A TIMER IN THE VALVE CONTROLLER, SET AT ONE WEEK, SHALL START WHEN THE FLOAT SWITCH CONTACT HAS REMAINED OPEN FOR THE SEVEN DAYS. THE VALVE CONTROLLER SHALL OPEN THE VALVE FOR 120 MINUTES. AFTER 120 MINUTES THE VALVE CONTROLLER SHALL CLOSE THE VALVE.
VALVE ACTUATION TIME
-A TIMER IN THE VALVE CONTROLLER SHALL MONITOR THE VALVE OPEN OR CLOSE COMMAND TIME. THIS TIMER SHALL BE SYNCHRONIZED WITH THE VALVE OPENING AND CLOSING SEQUENCE, TO SAVE BATTERY POWER.

CHANGING TIMER SET POINTS
-FOUR TIMERS SHALL BE PROVIDED AND MODIFIED AS NEEDED FOR FINE TUNED CONTROL. THESE TIMERS, IN ORDER OF DISPLAY ON THE PLC SCREEN, SHALL BE:
-DELAY ON TIME (DEFAULT 12 HOURS): TIME DELAY BETWEEN THE FLOAT INDICATING WATER IS PRESENT AND THE VALVE AUTOMATICALLY OPENING.
-DELAY OFF TIME (DEFAULT 2 HOURS): TIME DELAY BETWEEN THE FLOAT INDICATING WAS EMPLOYED AND THE VALVE AUTOMATICALLY CLOSING.
-EXERCISE TIME (DEFAULT 120 MINUTES): LENGTH OF TIME THE VALVE SHALL STAY OPEN WHILE IN EXERCISE MODE.
-ACTUATION TIME (DEFAULT 60 SECONDS): LENGTH OF TIME THE OPEN OR CLOSE COMMANDS SHALL BE GIVEN TO THE VALVE ACTUATOR.

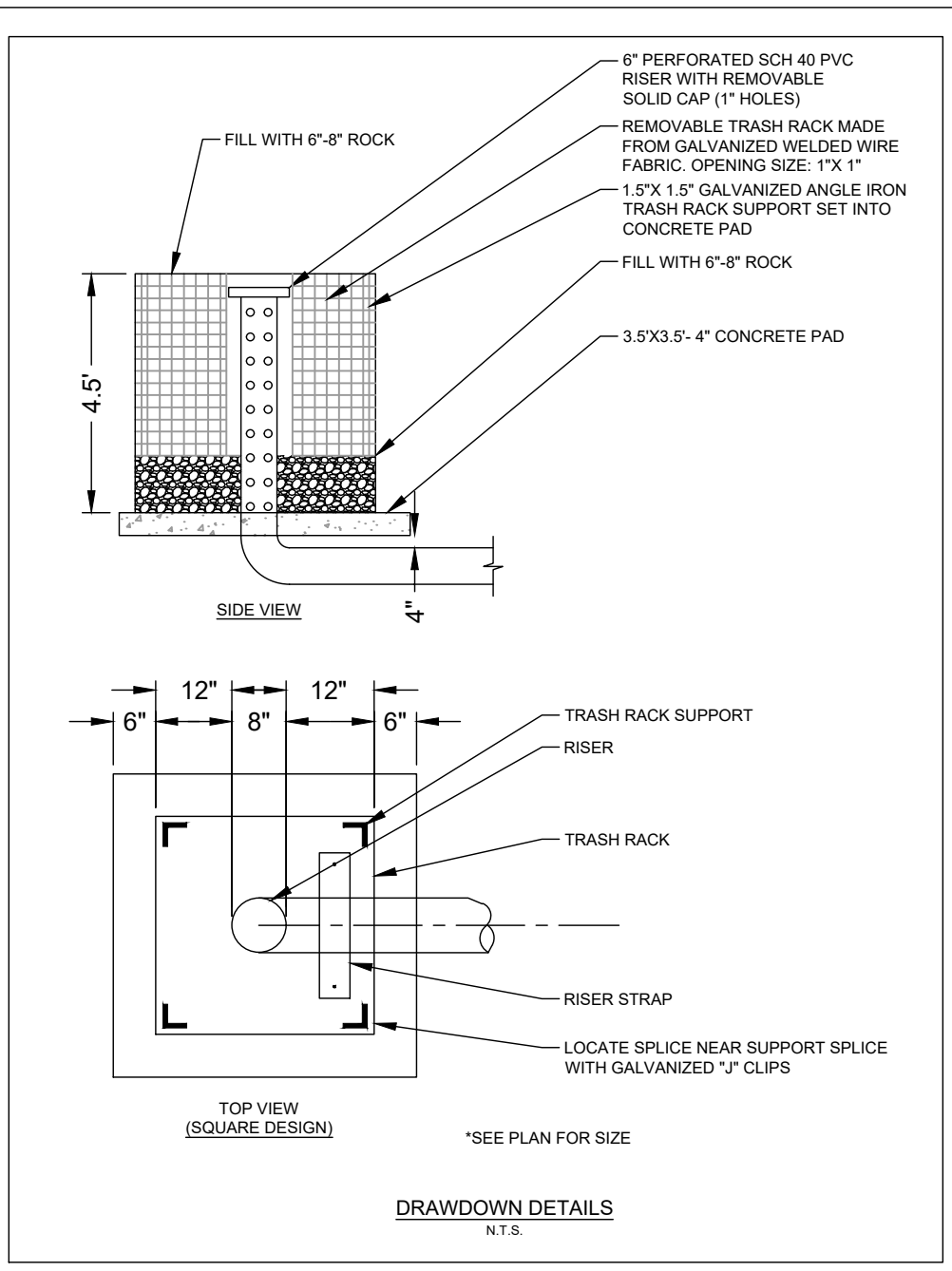
NOTES:

1. WATER QUALITY POND IS A BATCH DETENTION POND PER TCEQ DESIGN CRITERIA.
2. OUTLET STRUCTURE FOR WATER QUALITY POND IS A PVC PIPE (PER DETAIL) WITH A DOWNSTREAM ACTUATOR VALVE.
3. ACTUATOR VALVE IS TO BE CONTROLLED SUCH THAT A 12 HOUR MINIMUM DETENTION TIME IS ACHIEVED AND SHALL REMAIN OPEN FOR TWO HOURS AFTER THE LEVEL SENSOR INDICATES THE BASIN IS EMPTY TO ALLOW ANY REMAINING SHALLOW WATER TO BE DISCHARGED.
4. ORIFICE/PIPE HAS BEEN SIZED TO ALLOW COMPLETE DRAWDOWN OF WATER QUALITY VOLUME WITHIN 48 HOURS AFTER THE 12 HOUR DETENTION TIME.
5. ELECTRIC CONTROL PANEL SHALL BE CAPABLE OF:
 1. 12 HOUR DELAY PRIOR TO OPENING ACTUATED VALVE
 2. PROVIDE MANUAL OVERRIDE TO ACTUATOR



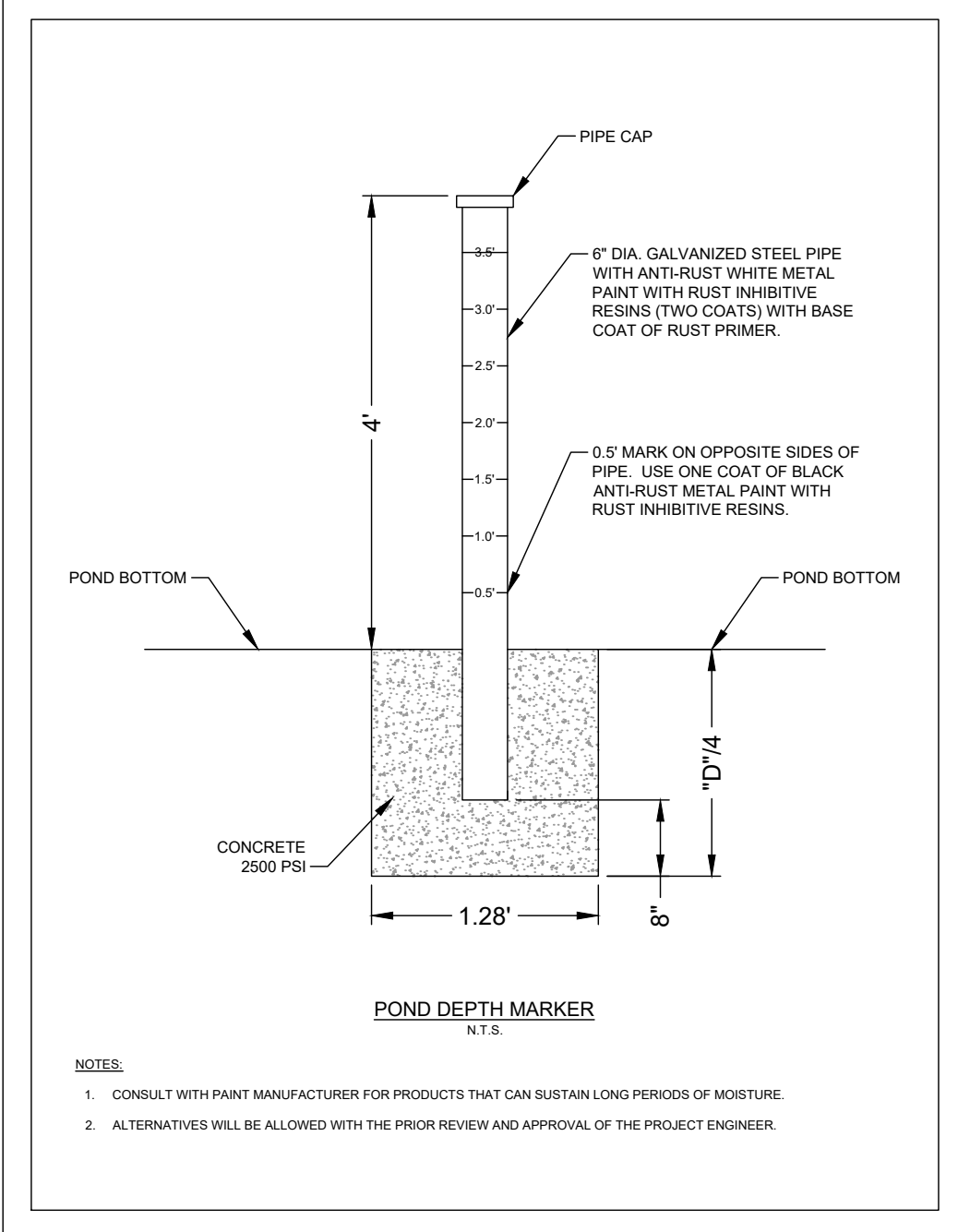
BATCH DETENTION POND MANHOLE DETAIL
N.T.S.

NOTE:
CONTROL VALVE TO BE MOTOR ACTUATED VALVE. VALVE SHALL BE WIRED TO A CONTROLLER THAT OPENS VALVE 12 HOURS AFTER MANUAL VIEW AND CLOSES VALVE 2 HOURS AFTER POND HAS DRAINED DRY. CONTROLLER SHALL INCLUDE PROVISIONS FOR A MANUAL OVERRIDE SWITCH.



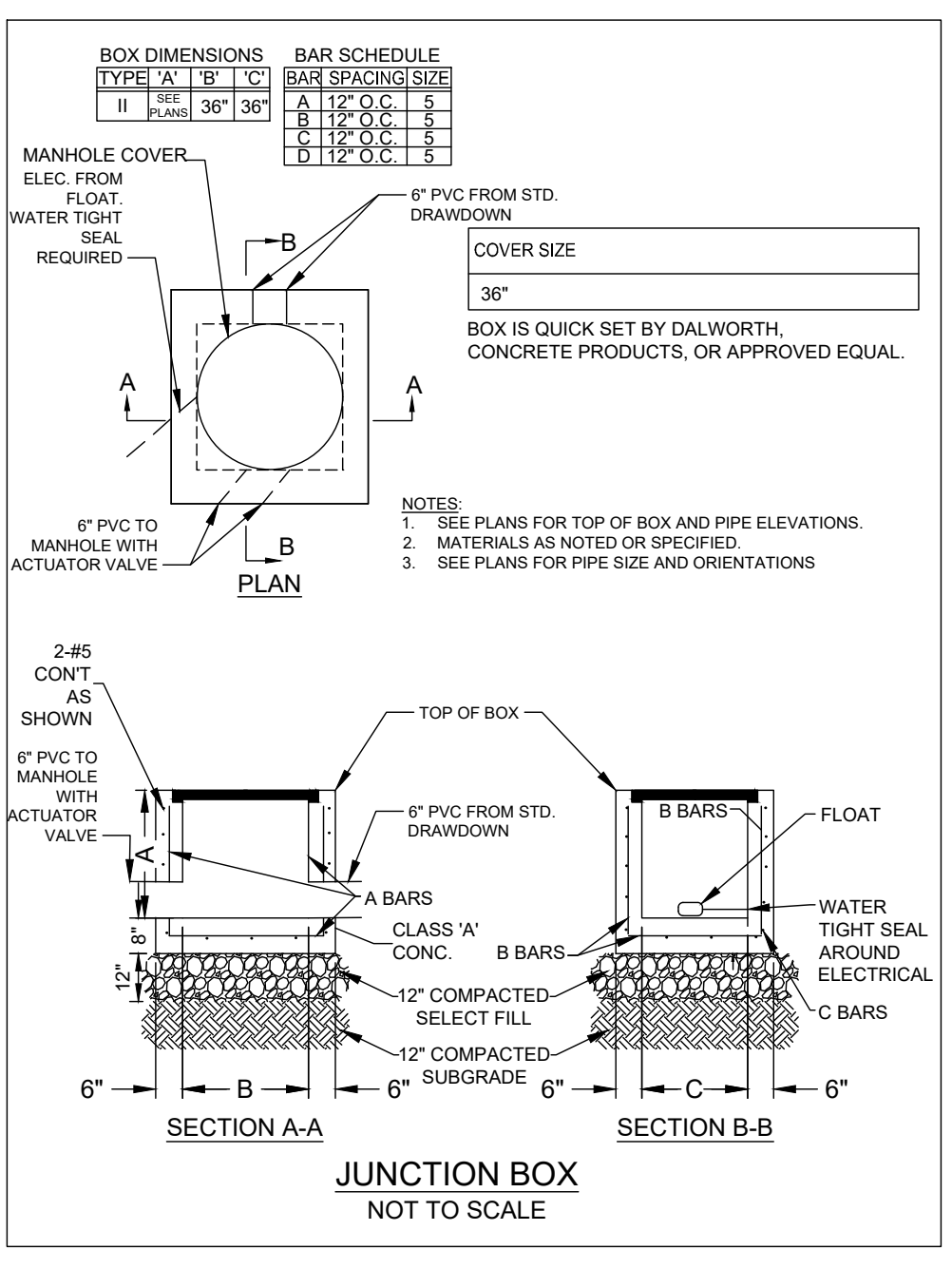
DRAWDOWN DETAILS
N.T.S.

*SEE PLAN FOR SIZE

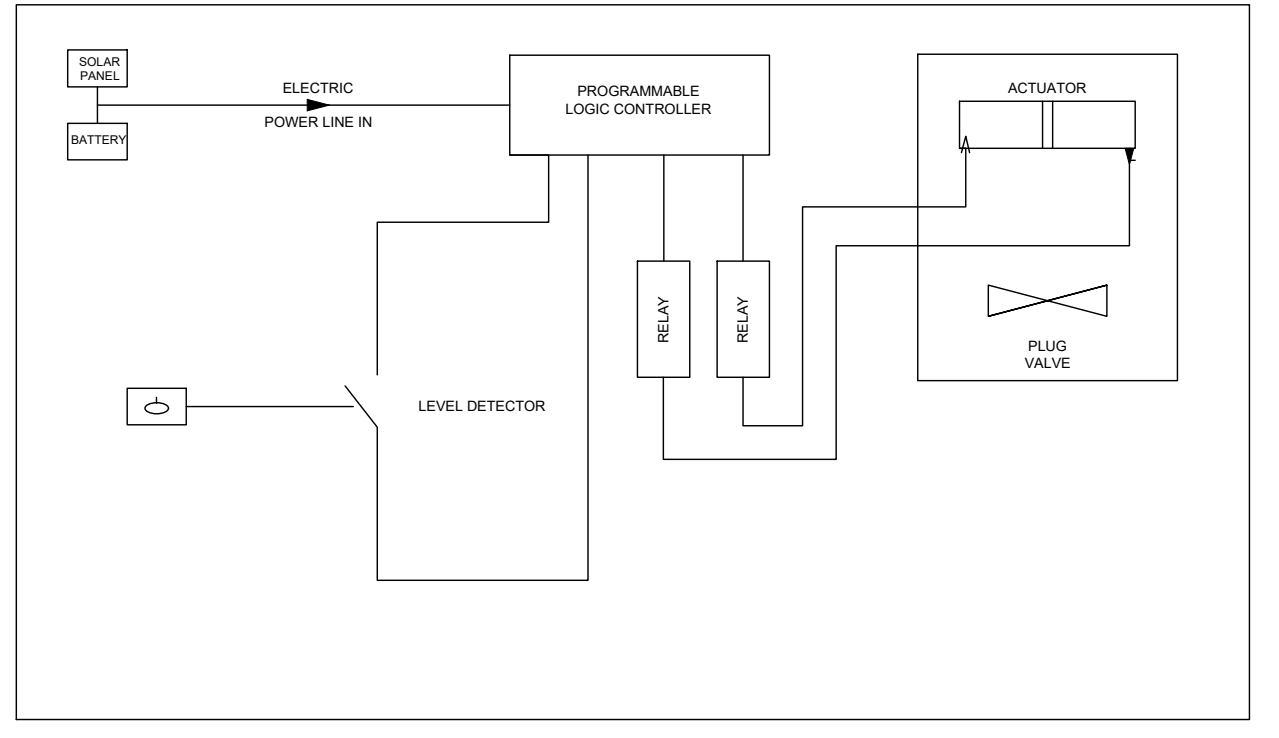


POND DEPTH MARKER
N.T.S.

NOTES:
1. CONSULT WITH PAINT MANUFACTURER FOR PRODUCTS THAT CAN SUSTAIN LONG PERIODS OF MOISTURE.
2. ALTERNATIVES WILL BE ALLOWED WITH THE PRIOR REVIEW AND APPROVAL OF THE PROJECT ENGINEER.



JUNCTION BOX
NOT TO SCALE



Batch Detention Pond Valve and Actuator	
COMPONENT	DESCRIPTION
Power	System to be solar powered. See plans for location of solar panels. Actuator and Controller are 24V. Backup battery to be provided.
Logic Controller	Allen Bradley 810 Programmable Logic Controller. (Or approved equal). See attached notes for operations and test cycle control.
Parts Enclosure	Saginaw SCE-24EL2416SSLP NEMA 4X, 304 stainless steel lockable enclosure. (Or approved equal)
Circuit	See below block diagram for controller circuit.
Nature of Event Sensing	ECO-FLOAT Model G Mercury Free Float Sensor. (Or approved equal). Float to be located within a concrete box with manhole cover for access. Stormwater will flow through trash rack and perforated pipe to remove vegetation and debris prior to reaching the float.
Actuator	EIM HQ series Electric Quarter turn actuator Model HQ-015 with no local controls for 24V power supply with integral condensation heater and manual handwheel override with padlock capability. (Or approved equal).
Valve Type	Henry Pratt Ballcentric Plug Valve with over torque sensors. Able to withstand 100 PSI minimum. (Or approved equal).

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

WATER QUALITY POND 1 SECTIONS & DETAILS

MALONE WHEELER
INC. SINCE 1975
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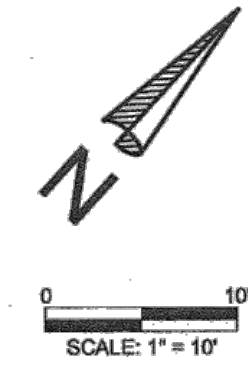


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SHEET 37
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FOR INFORMATIONAL
USE ONLY



LEGEND

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

NOTES:

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

BATCH POND WEIR CALCULATIONS

BROAD-CRESTED RECTANGULAR WEIR:

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

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

$$L = \frac{Q}{C \cdot H^{3/2}} = \frac{84.84}{2.7 \cdot 0.5^{3/2}} = \frac{84.84}{0.954594} = 88.88$$

SOLVE FOR HEAD

$$H = \left(\frac{Q}{C \cdot L} \right)^{2/3} = \left(\frac{84.84}{2.7 \cdot 60.75} \right)^{2/3} = \left(\frac{84.84}{164.025} \right)^{2/3} = (0.517238)^{2/3} = 0.6444$$

USE 60.75' WEIR AT 0.64' OF HEAD
0.6400

BATCH POND WEIR CALCULATIONS

BROAD-CRESTED RECTANGULAR WEIR:

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

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

$$L = \frac{Q}{C \cdot H^{3/2}} = \frac{62.73}{2.7 \cdot 0.5^{3/2}} = \frac{62.73}{0.954594} = 65.71$$

SOLVE FOR HEAD

$$H = \left(\frac{Q}{C \cdot L} \right)^{2/3} = \left(\frac{62.73}{2.7 \cdot 60.75} \right)^{2/3} = \left(\frac{62.73}{164.025} \right)^{2/3} = (0.382442)^{2/3} = 0.5269$$

USE 60.75' WEIR AT 0.53' OF HEAD
0.5300

PROP. BATCH POND

CONTOUR	AREA	AVERAGE AREA	INCREMENTAL STORAGE (CF)	CUMULATIVE STORAGE (CF)
1035.66	14.06	0	0	0
1036	179	96.30	26.73	26.73
1037	2,972	1,575.34	2,081.43	2,108.16
1038	3,885	3,428.66	3,400.38	5,508.54
1038.02	3,902	3,893.61	96.66	5,605.20
1039	4,870	4,386.25	3,776.22	9,381.42

$$A_o = \frac{0.001 \text{ BMP Vol.}}{C \sqrt{2gH_{avg}}}$$

- 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/s²)
- H_{avg} = H_r/2, average hydraulic head (ft)
- H_r = total hydraulic head determined from difference between the WQ elev. and the center of orifice

A _o =	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 _r / 2 (average hydraulic head)
H _r =	3.96	ft	total hydraulic head determined from difference between the WQ elev and the center of the orifice
A _o =	0.797302	sq. in.	maximum orifice area

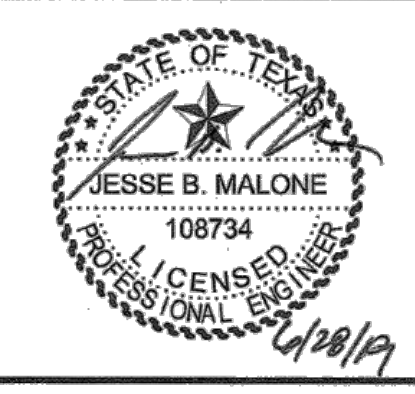
WATER QUALITY ZONE

LAKE TRAVIS HIGH SCHOOL 2019 IMPROVEMENTS
3324 RANCH RD 620 SOUTH

EXISTING WQ POND 3 (1 OF 2)

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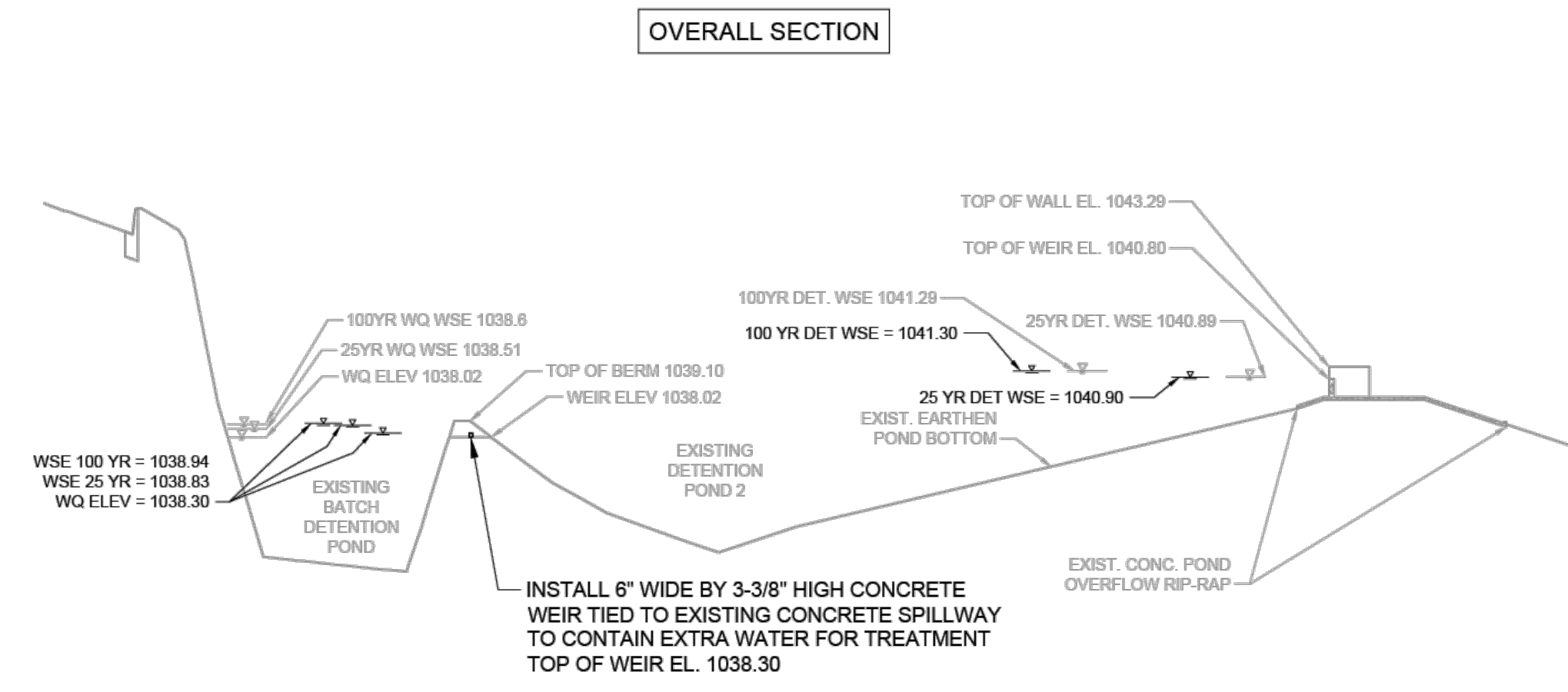
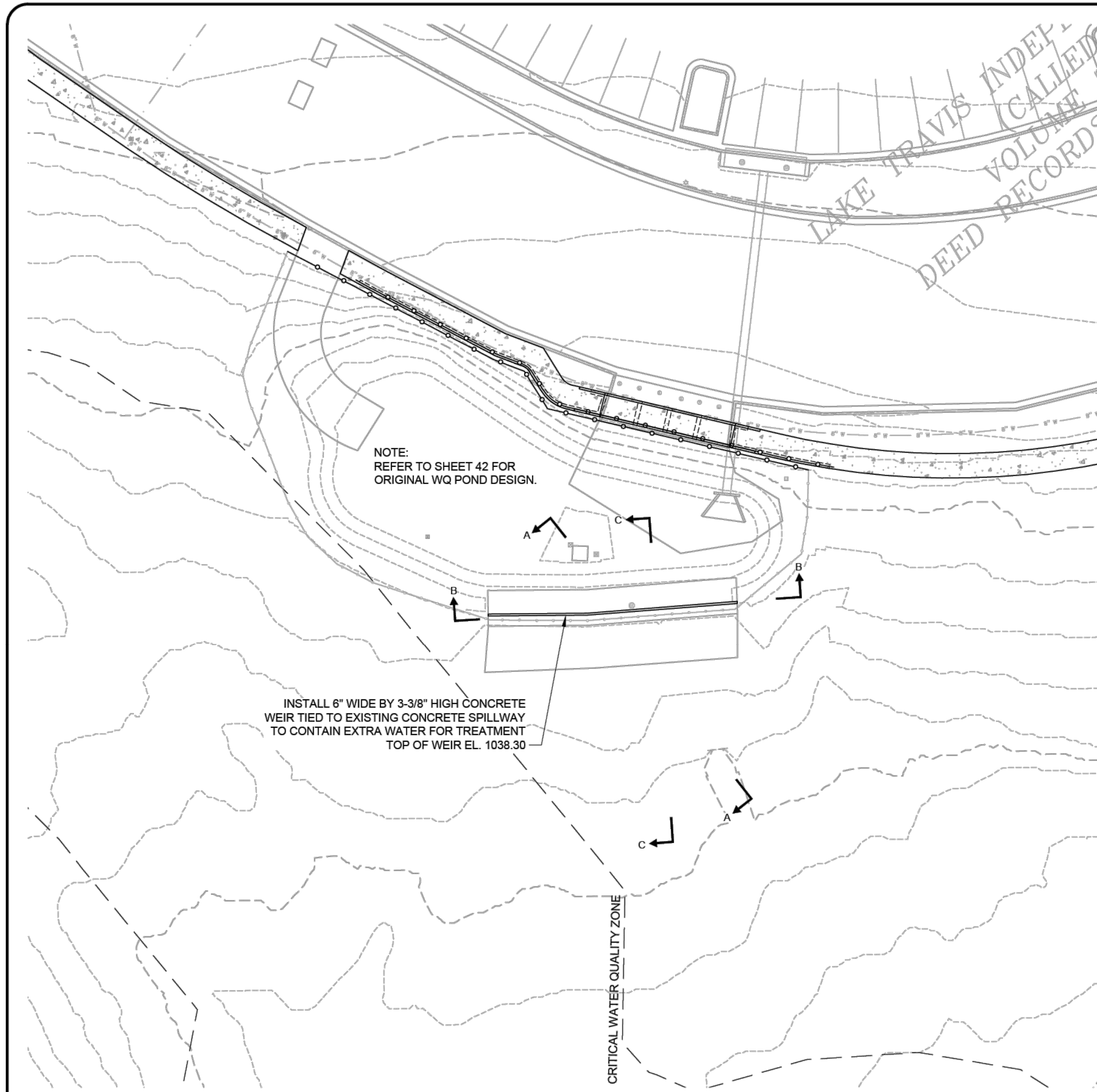
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SHEET 75
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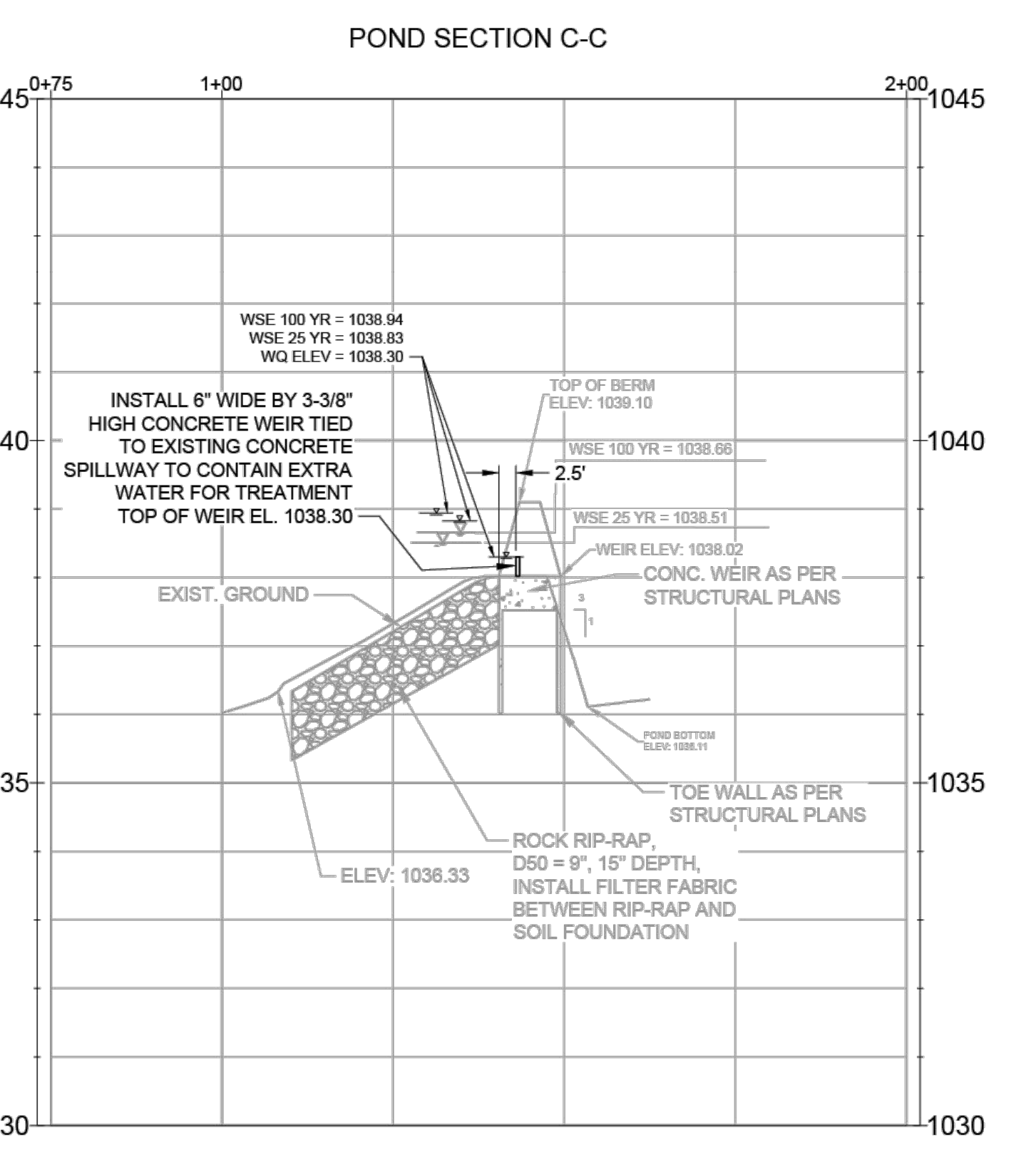
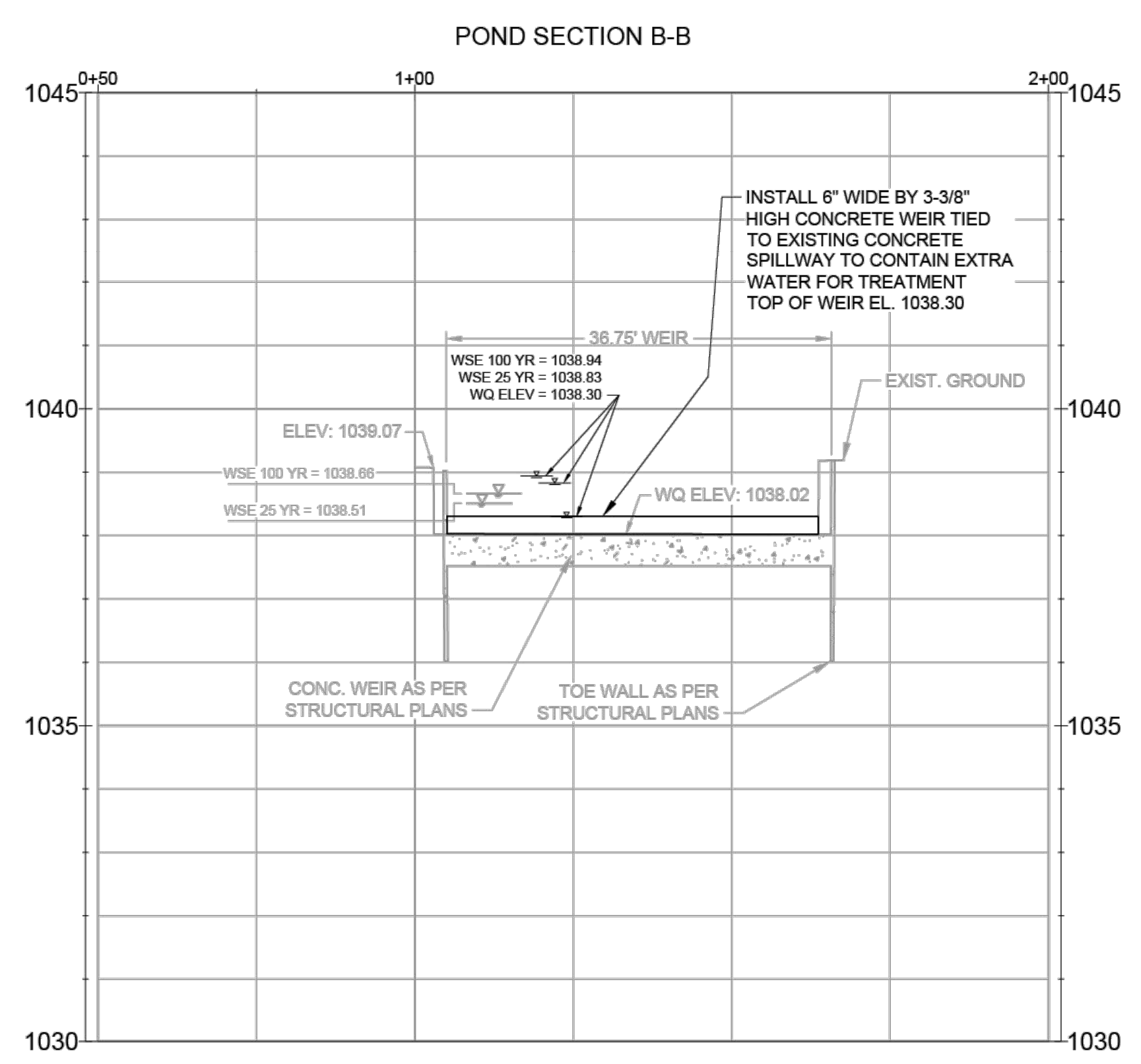
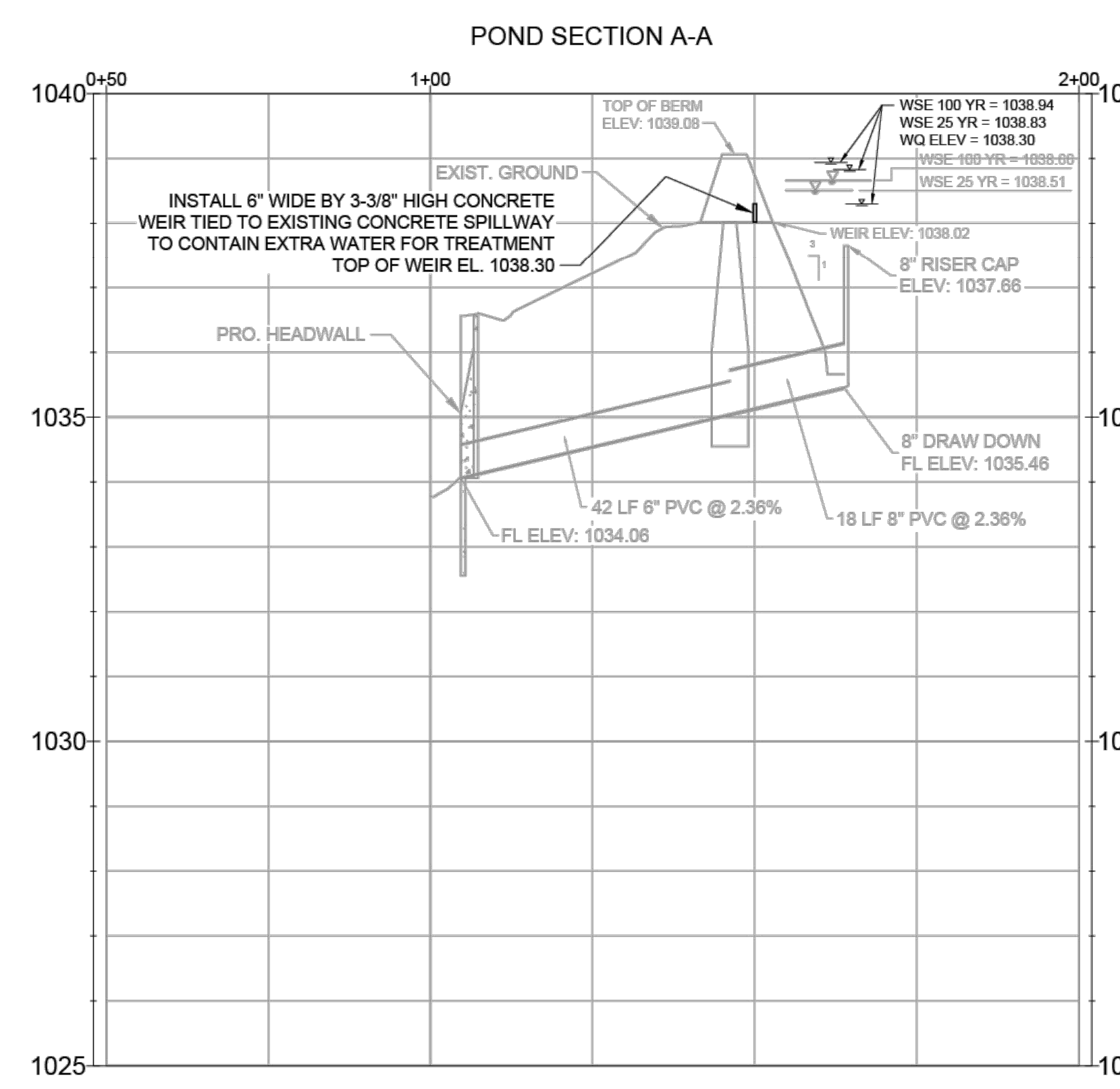
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CONCRETE CURB REINFORCEMENT:
REINFORCE THE CURB WITH 1 - #4 BAR CONTINUOUS AND #4 "L" BARS 6" LG. X 12" LG. AT 24" O.C. ATTACHED TO THE EXISTING WALL WITH ANCHORING ADHESIVE AND 4" EMBEDMENT (PER RECOMMENDATIONS BY PICKETT, KELM & ASSOCIATES, INC.).

- NOTES
- CONTACT POSTINSPECTION@TRAVISCOUNTYTX.GOV TO SCHEDULE THE FOLLOWING MILESTONE INSPECTIONS FOR THE WATER QUALITY STRUCTURES WITH AT LEAST A 48-HOUR NOTICE, IF APPLICABLE:
 - PRE-POUR OF ALL CONCRETE WITHIN THE FOOTPRINT OF THE WQ CONTROL OR POND
 - PLACEMENT OF ALL ROCK-FILLED GABIONS/MATTRESSES AND LEVEL SPREADERS
 - INSPECTION OF SANDBIO-FILTRATION MEDIA AND/OR ROCK PRIOR TO INSTALLING
 - UNDERDRAIN PIPING PRIOR TO COVERING WITH SANDBIO-FILTRATION MEDIA OR ROCK IN INFILTRATION TRENCH - IF COVERED, REMOVAL OF MATERIAL WILL BE REQUIRED
 - COMPLETED CONSTRUCTION OF WATER QUALITY STRUCTURE(S)

FOR INFORMATIONAL USE ONLY



NO.	DATE	REVISION	BY

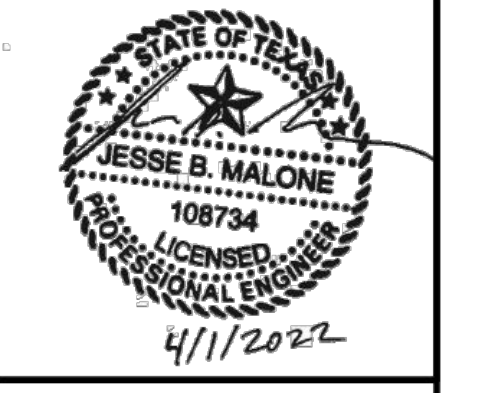
LAKE TRAVIS HIGH SCHOOL 2022 IMPROVEMENTS
3324 RANCH ROAD 620 SOUTH

EXISTING WQ POND 3 (2 OF 2)

MALONE WHEELER
SINCE 1975
INC.

CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

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



DESIGN BY: SGC
CHECKED BY: SGC
APPROVED BY: JBM
DATE: 4/1/2022

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

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

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

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

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

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

County =	Travis	acres
Total project area included in plan *	124.44	acres
Predevelopment impervious area within the limits of the plan *	25.55	acres
Total post-development impervious area within the limits of the plan *	49.17	acres
Total post-development impervious cover fraction *	0.40	
P =	32	inches

2022 Approved CZP + LTHS 2024 PH1 & PH2 + 5.22 acres future impervious

$L_{M \text{ TOTAL PROJECT}} = 20559$ lbs.

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

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

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

Drainage Basin/Outfall Area No. =	1	
Total drainage basin/outfall area =	75.87	acres
Predevelopment impervious area within drainage basin/outfall area =	14.37	acres
Post-development impervious area within drainage basin/outfall area =	32.43	acres
Post-development impervious fraction within drainage basin/outfall area =	0.43	
$L_{M \text{ THIS BASIN}} =$	15719	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: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

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

$A_C =$	75.87	acres
$A_i =$	32.43	acres
$A_p =$	43.44	acres
$L_R =$	33358	lbs

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

Desired $L_{M \text{ THIS BASIN}} = 18109$ lbs.

$F = 0.54$

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 =	0.47	inches
Post Development Runoff Coefficient =	0.32	
On-site Water Quality Volume =	41793	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 =	1570	cubic feet

Storage for Sediment = 8673

Total Capture Volume (required water quality volume(s) x 1.20) = 52036 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 = 52036 cubic feet

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

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

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

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

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

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

County =	Travis	acres
Total project area included in plan *	124.44	acres
Predevelopment impervious area within the limits of the plan *	24.30	acres
Total post-development impervious area within the limits of the plan *	49.17	acres
Total post-development impervious cover fraction *	0.40	
P =	32	inches

2022 Approved CZP + LTHS 2024 PH1 & PH2 + 5.22 acres future impervious

$L_{M \text{ TOTAL PROJECT}} = 21647$ lbs.

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

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

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

Drainage Basin/Outfall Area No. =	3	
Total drainage basin/outfall area =	8.09	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	4.84	acres
Post-development impervious fraction within drainage basin/outfall area =	0.60	
$L_{M \text{ THIS BASIN}} =$	4216	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: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

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

$A_C =$	8.09	acres	43.15-72
$A_i =$	4.84	acres	
$A_p =$	3.25	acres	
$L_R =$	4931	lbs	

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

Desired $L_{M \text{ THIS BASIN}} = 2450$ 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 =	0.42	
On-site Water Quality Volume =	5198	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 = 1040

Total Capture Volume (required water quality volume(s) x 1.20) = 6237 cubic feet

8. Batch Detention Basin System

Designed as Required in RG-348

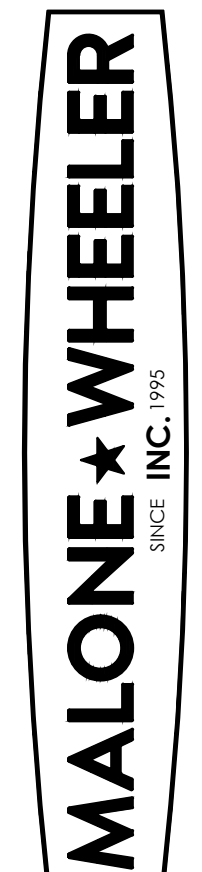
Pages 3-46 to 3-51

Required Water Quality Volume for batch detention basin = 6237 cubic feet

BY	
REVISION	
DATE	
NO.	

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

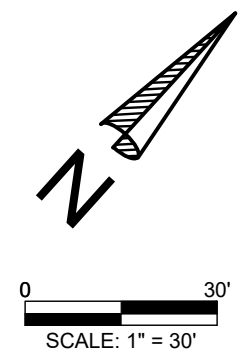
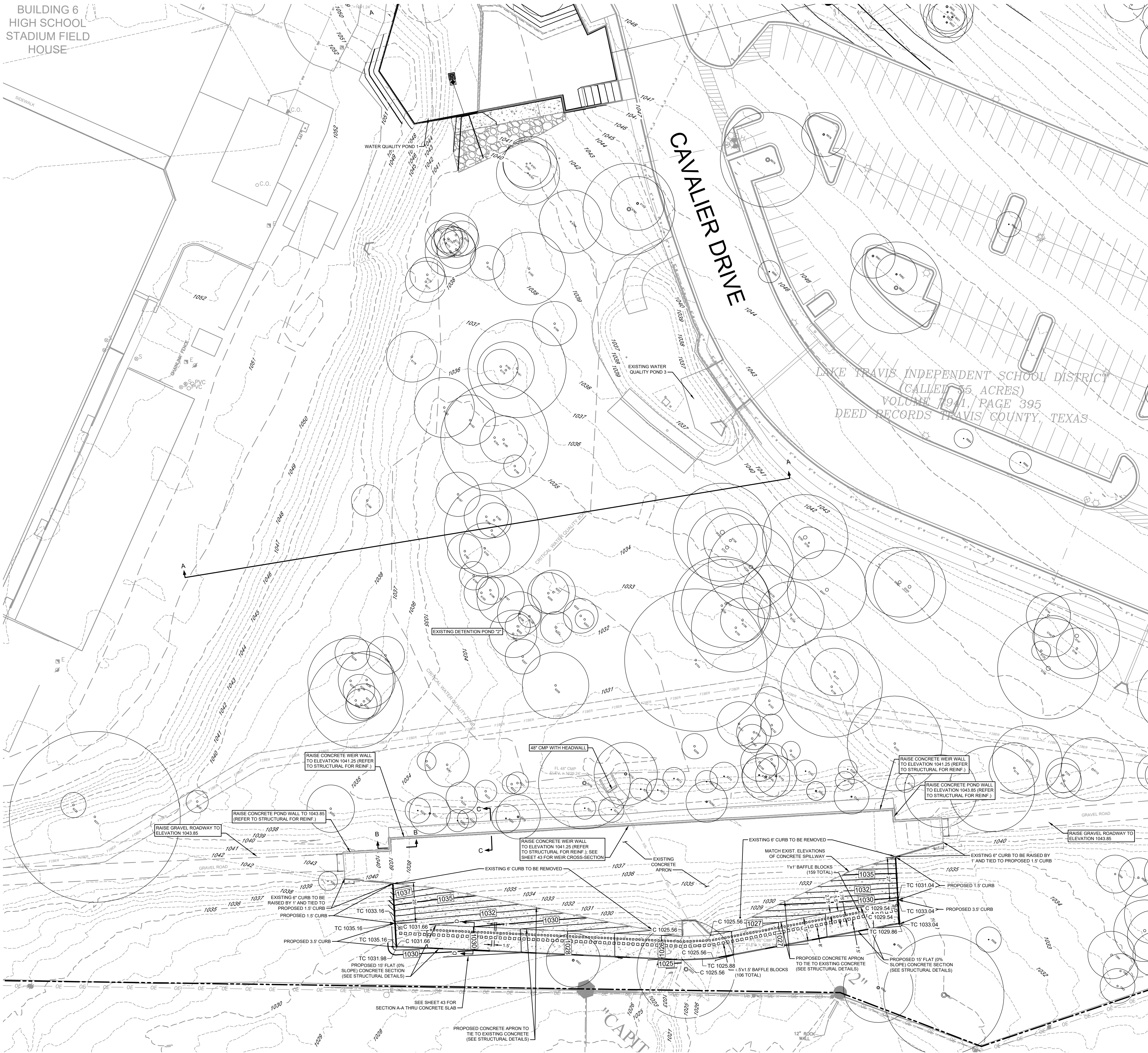
TCEQ WATER QUALITY CALCULATIONS



DESIGN BY: SGC
CHECKED BY: SGC
APPROVED BY: JBM
DATE: 11/29/2023

SHEET 40
OF 62

BUILDING 6
HIGH SCHOOL
STADIUM FIELD
HOUSE



- LEGEND**
- PROPERTY BOUNDARY
 - - - EXIST. GROUND CONTOUR
 - - - 940 - - - PROP. FINISHED CONTOUR
 - FG 100.00 - X PROP. SPOT ELEVATION
 - PROP. CURB
 - PROP. SIDEWALK
 - PROP. BUILDING SETBACK
 - - - PROP. EASEMENT
 - PROP. HANDRAIL / FENCE
 - PROP. RETAINING WALL
 - PROP. STORM SEWER
 - PROP. STORM SEWER MANHOLE
 - PROP. GRATE INLET
 - ▽ PROP. HEADWALL

DETENTION POND 2 STAGE-STORAGE-DISCHARGE			
STORM EVENT	MAX. POND WSE (FT)	PEAK DISCHARGE (CFS)	MAX. POND STORAGE (CU-FT)
2-YEAR	1,035.69	125.37	146,678
10-YEAR	1,038.95	171.16	412,756
25-YEAR	1,040.90	193.44	661,220
100-YEAR	1,041.82	644.05	796,118

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

DETENTION POND 2 MODIFICATIONS PLAN

MALONE WHEELER
INC. SINCE 1976

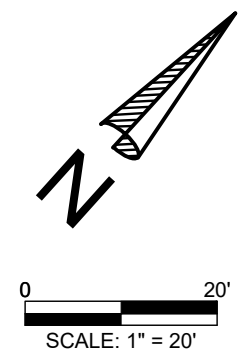
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5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786









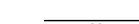

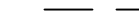
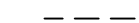


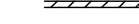

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APPROVED BY: JBM
DATE: 9/29/2023

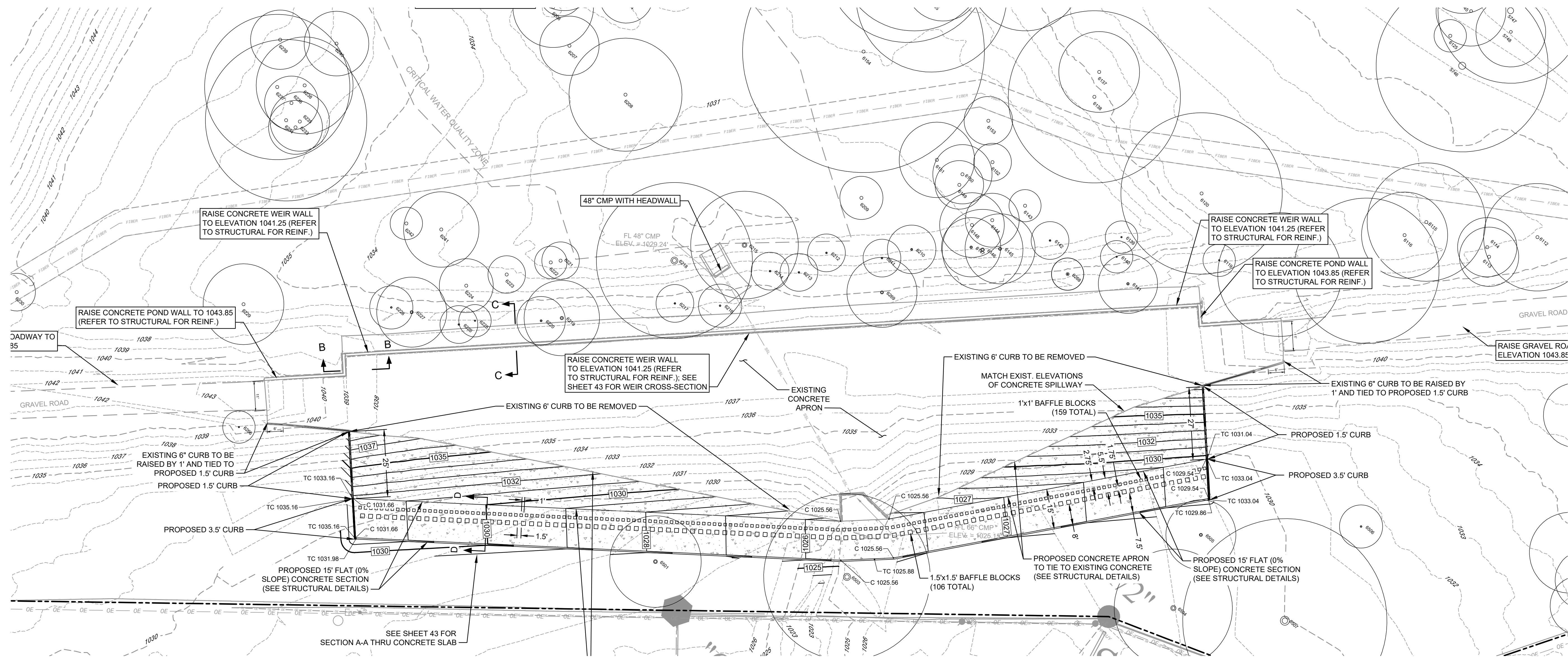
SHEET 41
OF 62

F:\UTSD\OVERALL\PROJECTS\2-105-AUS-UTSD-HS-2023\PRK\GL\DRAWINGS\PLAN\2-DETENTION POND 2 SECTIONS & DETAILS.DWG. 9/29/2023. ANTHONY VINCENT



LEGEND

-  PROPERTY BOUNDARY
-  EXIST. GROUND CONTOUR
-  PROP. FINISHED CONTOUR
-  PROP. SPOT ELEVATION
-  PROP. CURB
-  PROP. SIDEWALK
-  PROP. BUILDING SETBACK
-  PROP. EASEMENT
-  PROP. HANDRAIL / FENCE
-  PROP. RETAINING WALL
-  PROP. STORM SEWER
-  PROP. STORM SEWER MANHOLE
-  PROP. GRATE INLET
-  PROP. HEADWALL



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

DETENTION POND 2 WEIR MODIFICATIONS

MALONE WHEELER
INC. 1976

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Phone: (512) 899-0601 Fax: (512) 899-0655
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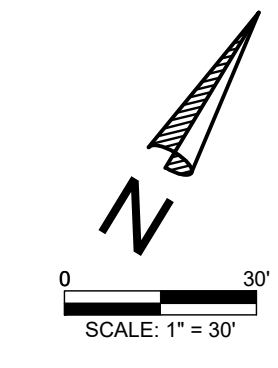
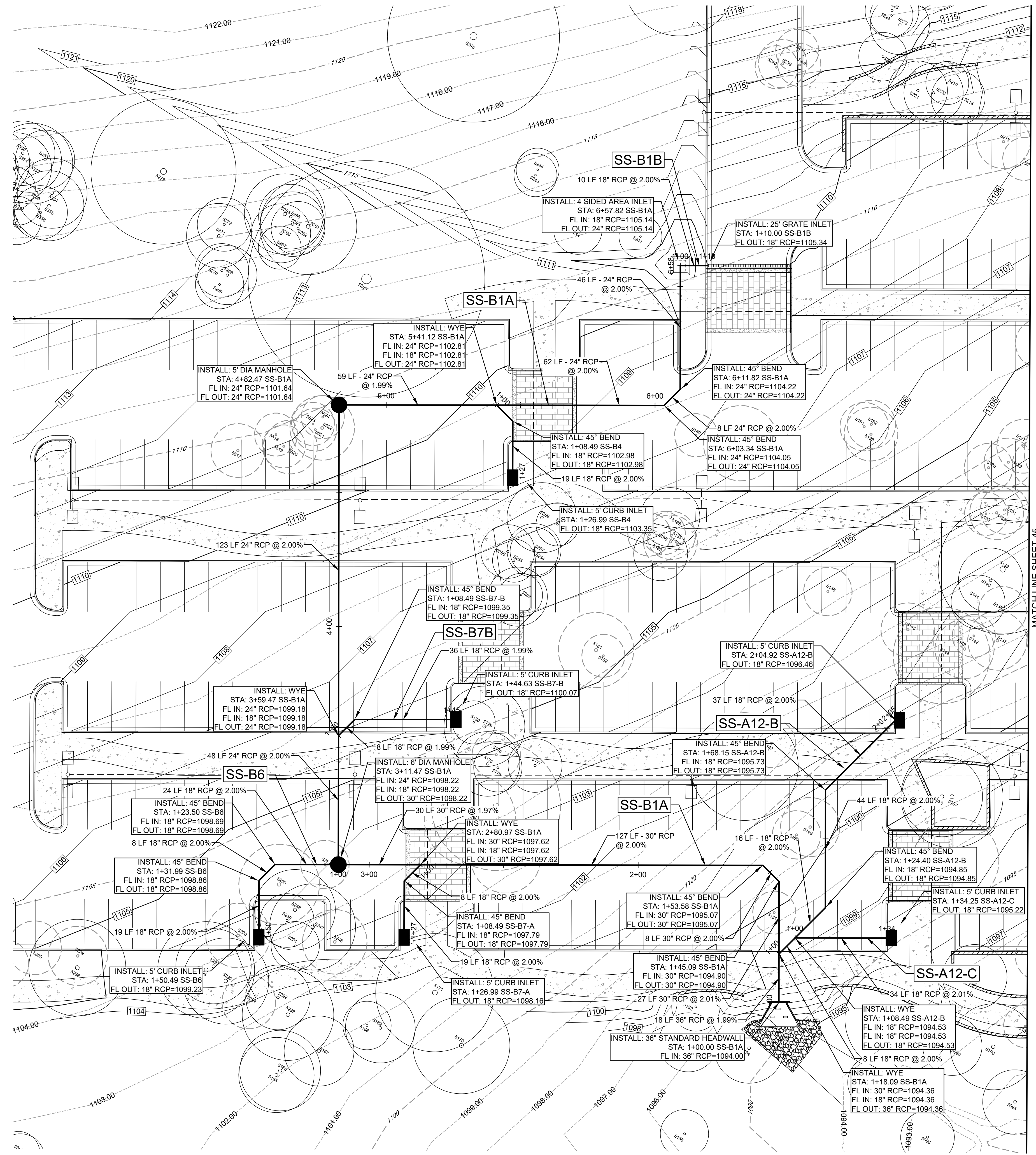


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APPROVED BY: JBM
DATE: 9/29/2023

SHEET 42
OF 62

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F:\UTSD\OVERALL\PROJECTS\2-105-AUS-UTSD-HS-2023\PRKNG\DRAWINGS\PLAN\146-ENLARGED STORM PLAN ANNEX BLDG - PARKING DWG. 9/29/2023. ANTHONY VINCENT



- LEGEND**
- PROPERTY LINE
 - PROP. STORM SEWER
 - PROP. CURB INLET
 - PROP. STORM SEWER MANHOLE
 - PROP. WATER LINE
 - PROP. FORCE MAIN LINE
 - PROP. SLOTTED DRAIN
 - PROP. ROOF DRAIN
 - PROP. AREA INLET
 - PROP. GRATE INLET

- NOTES:**
- EXISTING UTILITIES SHOWN FROM RECORD DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
ENLARGED STORM PLAN PARKING LOT

MALONE WHEELER
INC. 1976

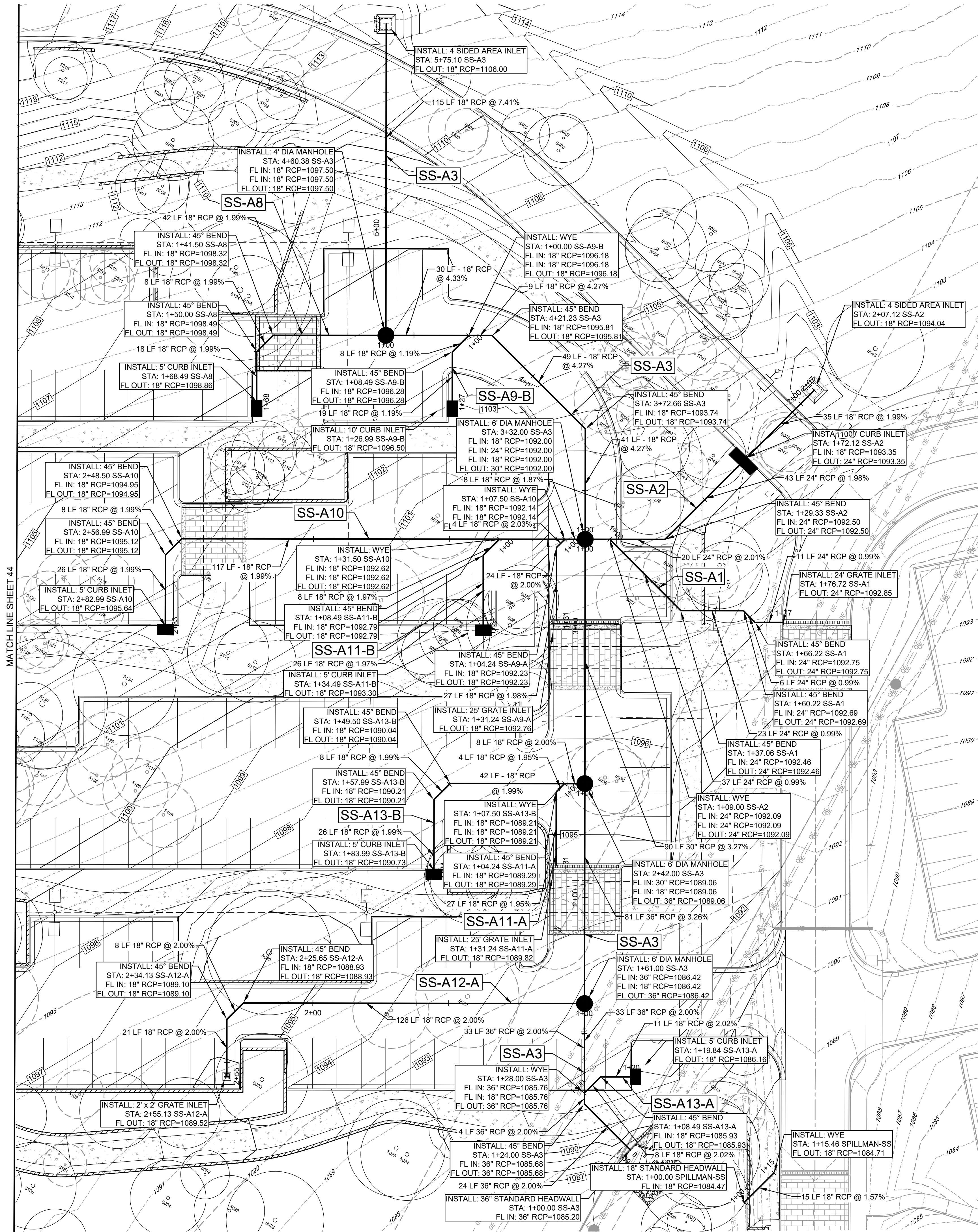
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Austin, Texas 78735
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LEGEND

- PROPERTY LINE
- PROP. STORM SEWER
- PROP. CURB INLET
- PROP. STORM SEWER MANHOLE
- PROP. WATER LINE
- PROP. FORCE MAIN LINE
- PROP. SLOTTED DRAIN
- PROP. ROOF DRAIN
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- PROP. GRATE INLET

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MATCH LINE SHEET 44

BY	
REVISION	
DATE	
NO.	

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH
ENLARGED STORM PLAN PARKING LOT

MALONE WHEELER
INC. 1976

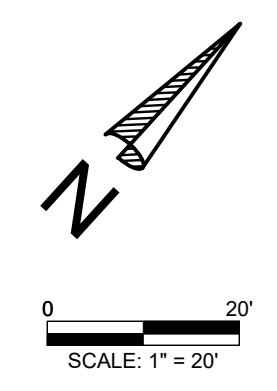
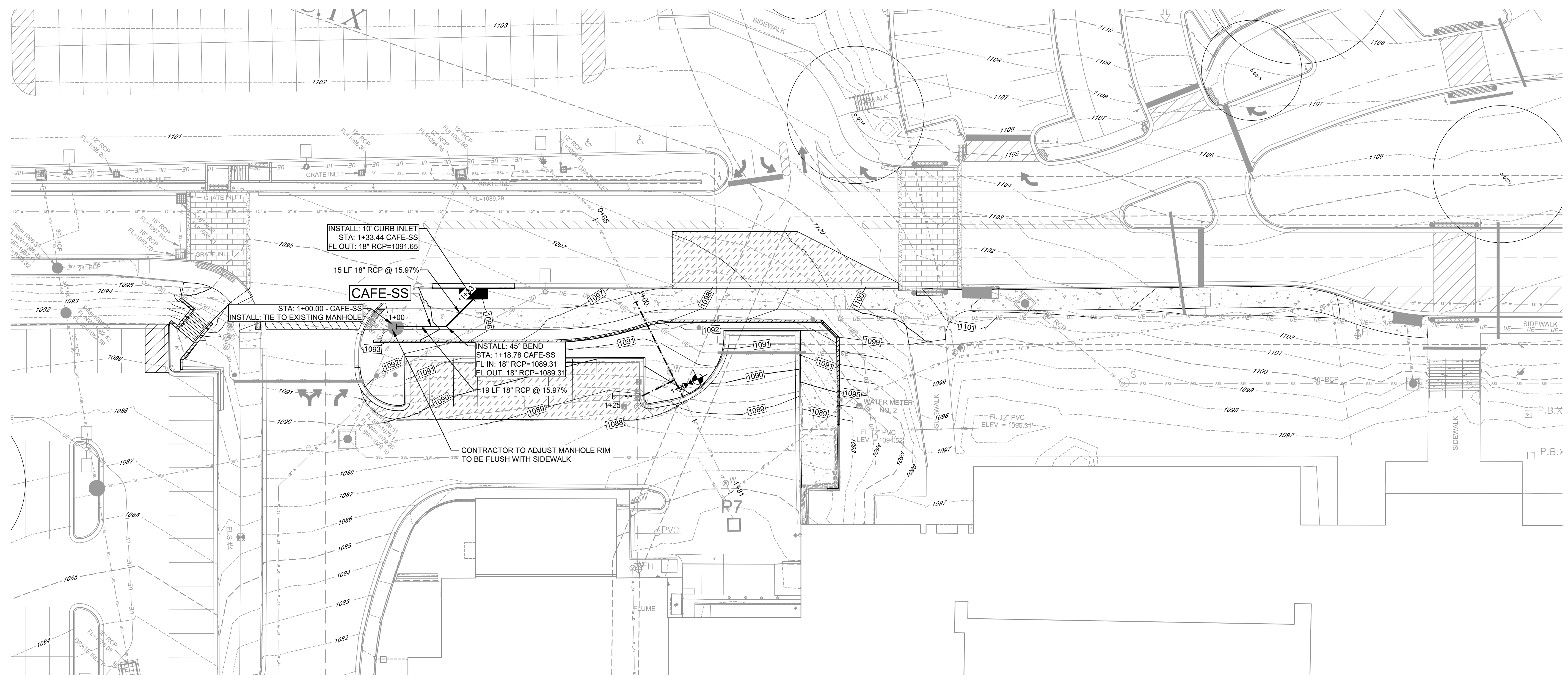
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FLUTSD OVERALL PROJECTS 22-105-AUS LTSD HS 2023 PRKGLTD DRAWING PLAN 146 ENLARGED STORM PLAN ANNEX BLDG 1 PARKING DWG. 9/29/2023. ANTHONY VINCENT



LEGEND

---	PROPERTY LINE
---	PROP. STORM SEWER
---/---	PROP. CURB INLET
●	PROP. STORM SEWER MANHOLE
---	PROP. WATER LINE
---	PROP. FORCE MAIN LINE
---	PROP. SLOTTED DRAIN
○	PROP. ROOF DRAIN
□	PROP. AREA INLET
■	PROP. GRATE INLET

- NOTES:**
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**LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH**

ENLARGED STORM PLAN CAFETERIA PARKING

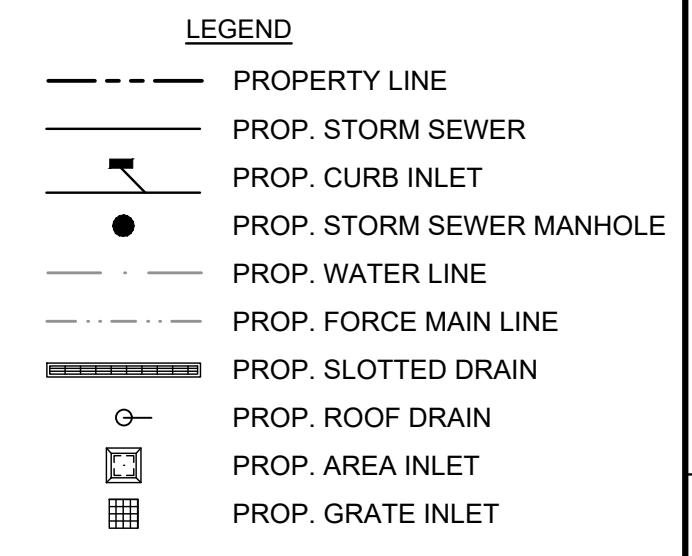
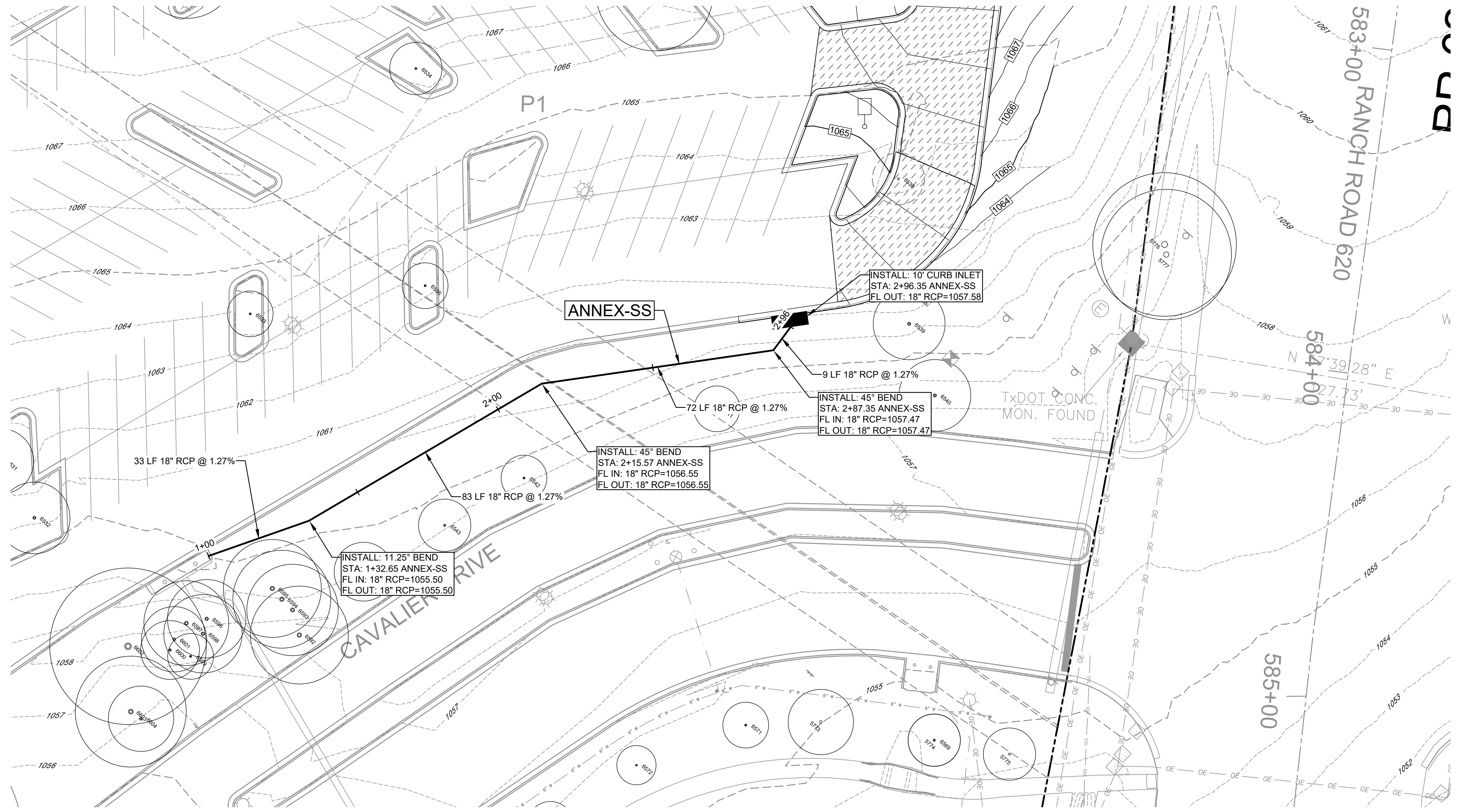
MALONE ★ WHEELER
INC. SINCE 1975

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

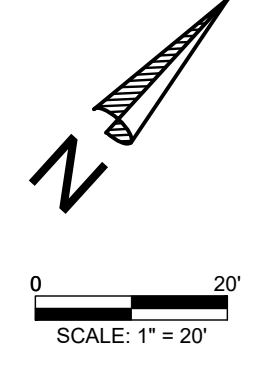
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APPROVED BY:	JBM
DATE:	9/29/2023



- NOTES:**
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NO.	DATE	REVISION	BY

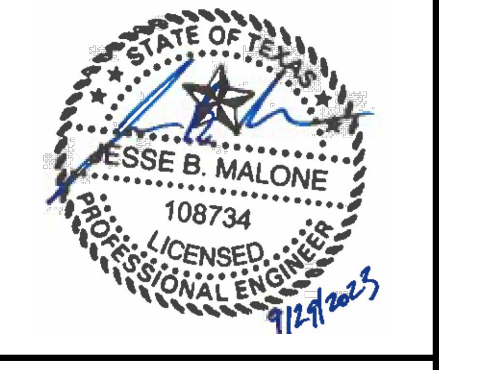
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
 3324 RANCH ROAD 620 SOUTH

ENLARGED STORM PLAN ANNEX BLDG 1 PARKING

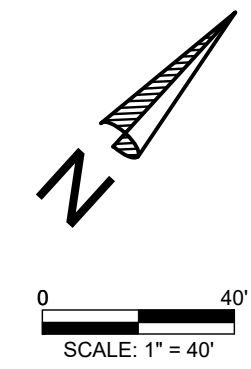
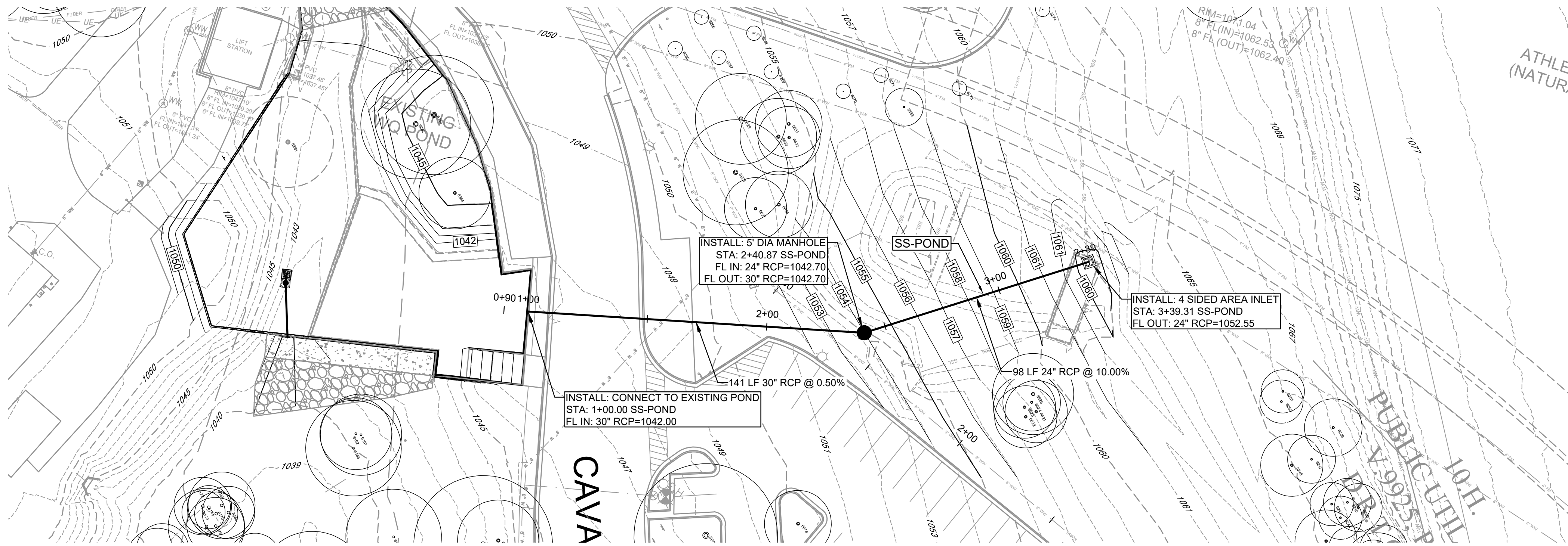
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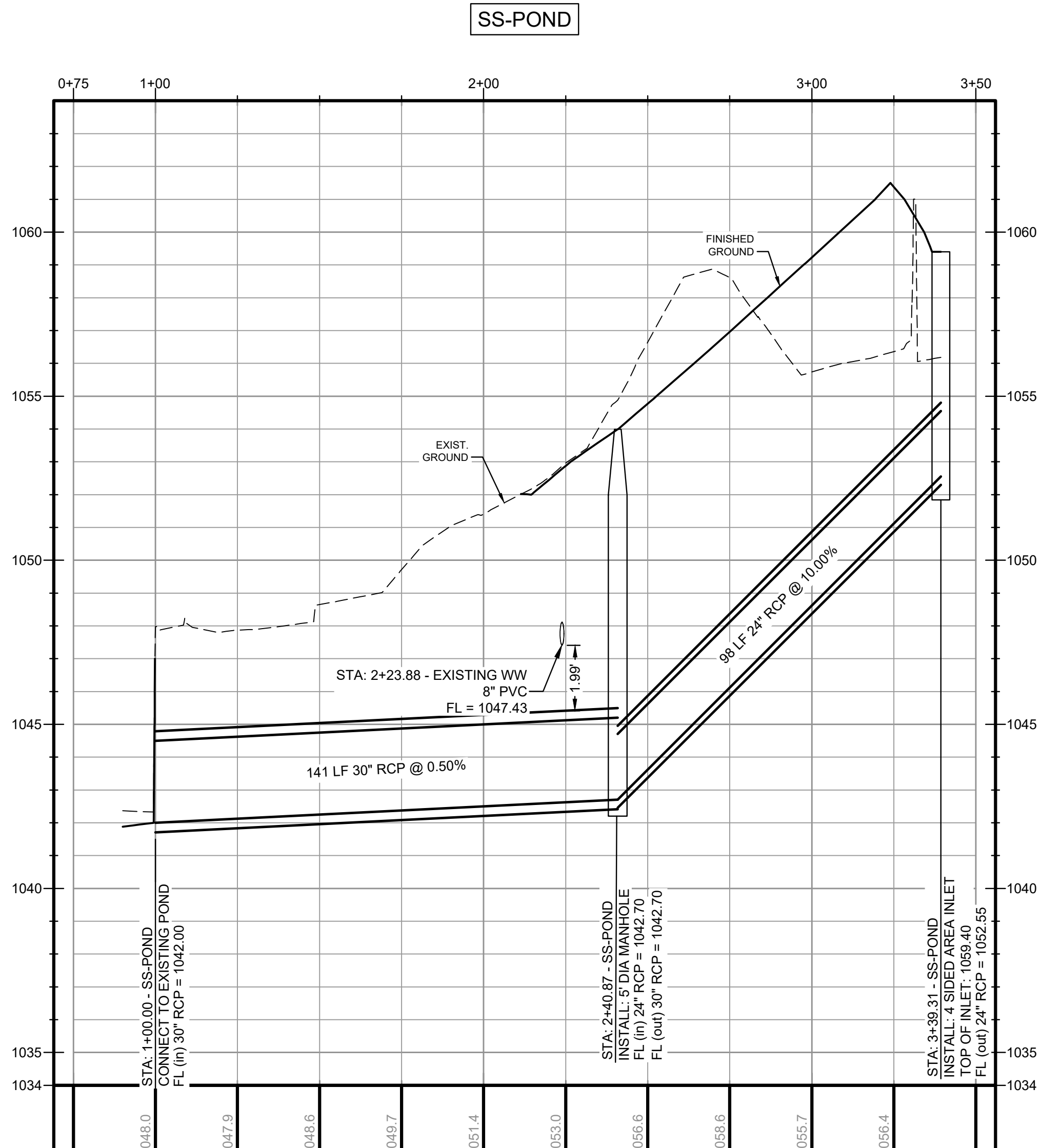
- LEGEND**
- PROPERTY LINE
 - PROP. STORM SEWER
 - PROP. CURB INLET
 - PROP. STORM SEWER MANHOLE
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NO.	DATE	REVISION	BY

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

ENLARGED STORM PLAN WATER QUALITY POND



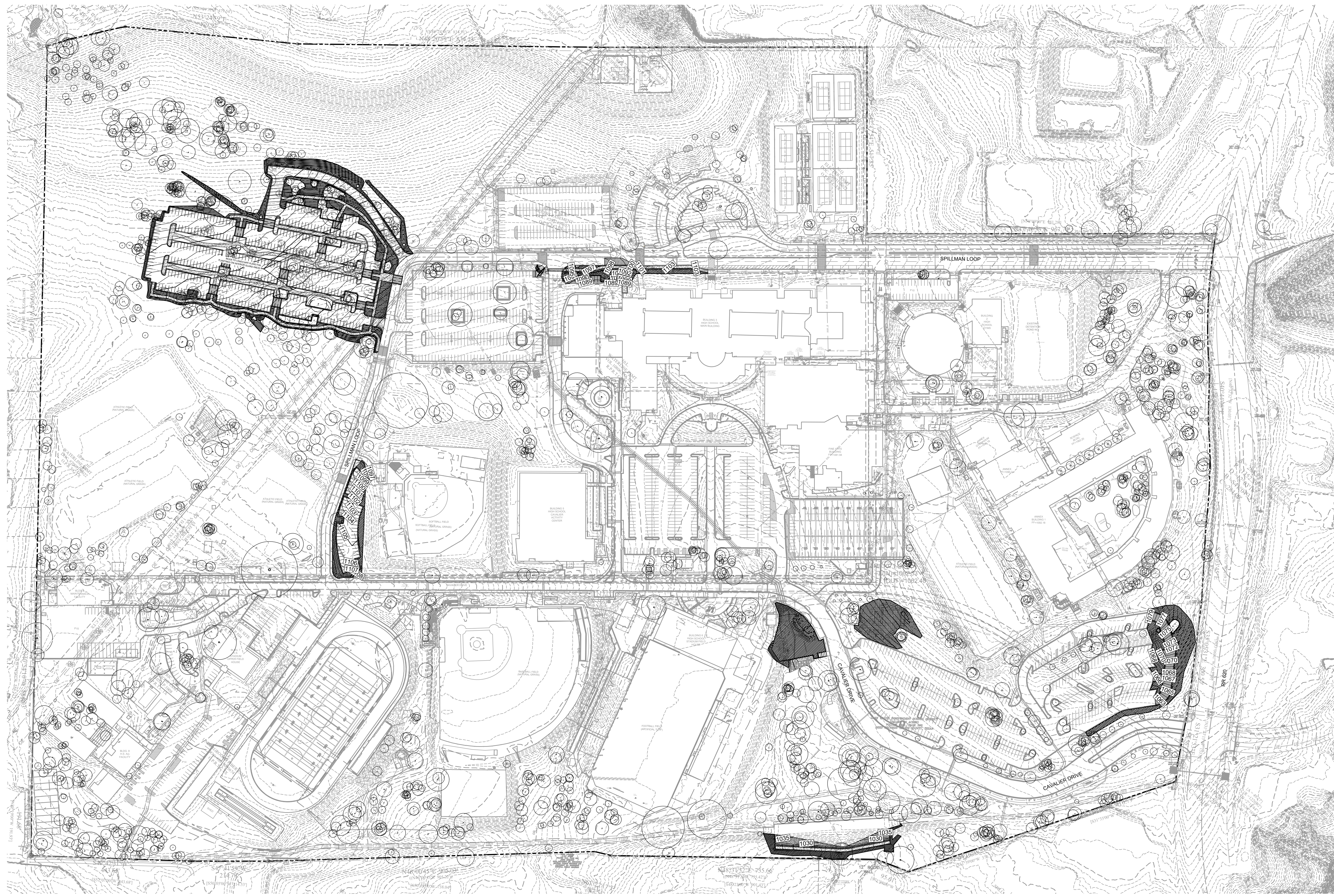
MALONE WHEELER
SINCE 1976

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



DESIGN BY: SGC
CHECKED BY: SGC
APPROVED BY: JBM
DATE: 9/29/2023

FILED OVERALL PROJECTS: 2-105-AUS-17-SD HS 2023 PRKGLDTPDRAWINGPLAN#E152 ENLARGED WATER QUALITY POND RESTORATION DWG. 9/29/2023. ANTHONY VINCENT



NO.	DATE	REVISION	BY

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

OVERALL RESTORATION PLAN

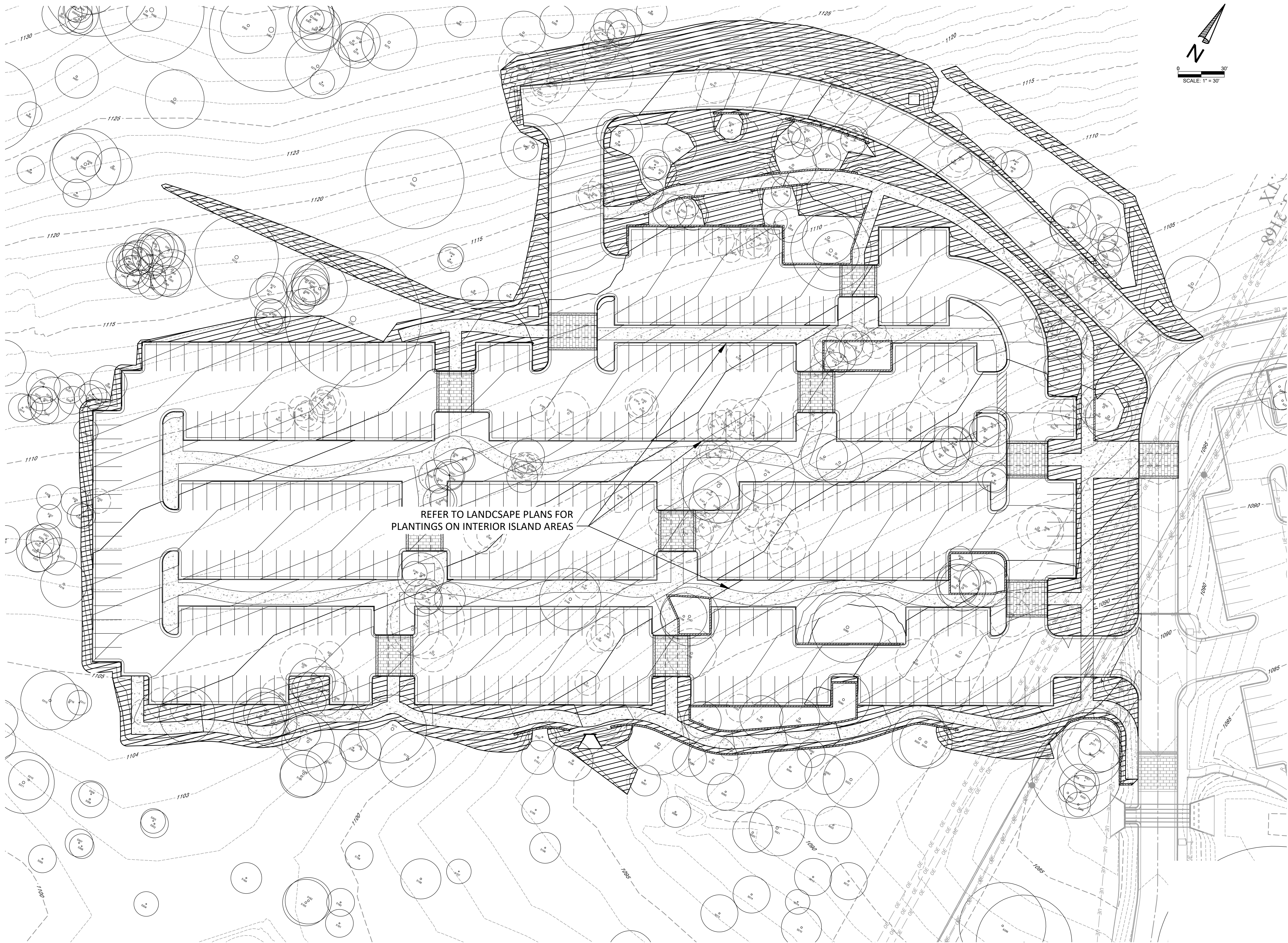
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INC. 1976

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Austin, Texas 78735
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DATE: 9/29/2023

F:\UTSD OVERALL\PROJECTS\2-105-AUS LTSD HS 2023 PRKGLT\DRAWINGS\102 ENLARGED WATER QUALITY POND RESTORATION.DWG, 9/29/2023, ANTHONY VINCENT



REFER TO LANDSCAPE PLANS FOR PLANTINGS ON INTERIOR ISLAND AREAS

LEGEND

- PROP. ROW
- PROP. PLAT BOUNDARY
- LOC
- PROP. HYDROMULCH
- R TREE TO REMAIN
- X TREE TO BE REMOVED

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.

NO.	DATE	REVISION	BY

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

ENLARGED PARKING LOT RESTORATION

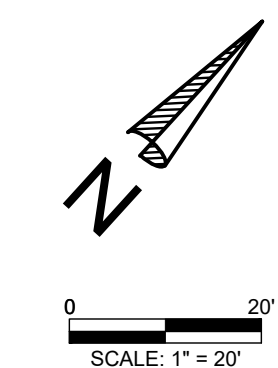
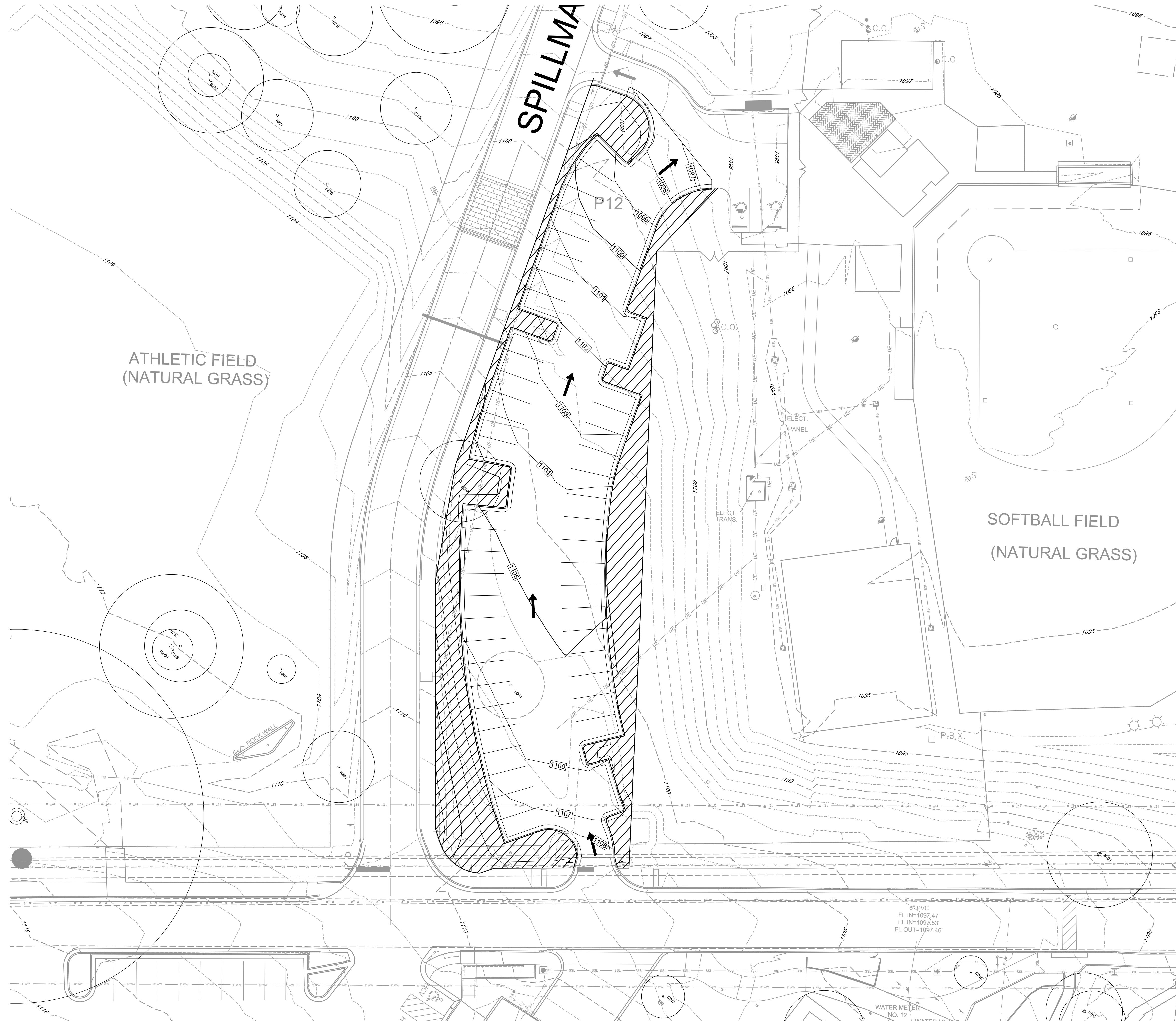
MALONE ★ WHEELER
INC. SINCE 1976

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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APPROVED BY: JBM
DATE: 9/29/2023

F:\UTSD OVERALL\PROJECTS\2-105-AUS-LTSD HS 2023 PRKNG\DRAWINGS\PLANS\102 ENLARGED WATER QUALITY POND RESTORATION.DWG, 9/29/2023, ANTHONY VINCENT



LEGEND

---	PROP. ROW
- - - -	PROP. PLAT BOUNDARY
---	LIMIT OF CONSTRUCTION
▨	PROP. HYDROMULCH
○	TREE TO REMAIN
○	TREE TO BE REMOVED

- NOTES:**
- NO CONSTRUCTION EQUIPMENT OR VEHICLE ALLOWED OUTSIDE LIMITS OF CONSTRUCTION (LOC).
 - SLOPE MATTING ON ALL SLOPES 3:1 OR GREATER, CLASS 1, TYPE B PER LCRA TECHNICAL MANUAL.

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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
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ENLARGED SOFTBALL FIELD PARKING RESTORATION

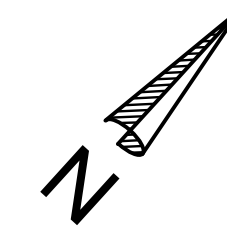
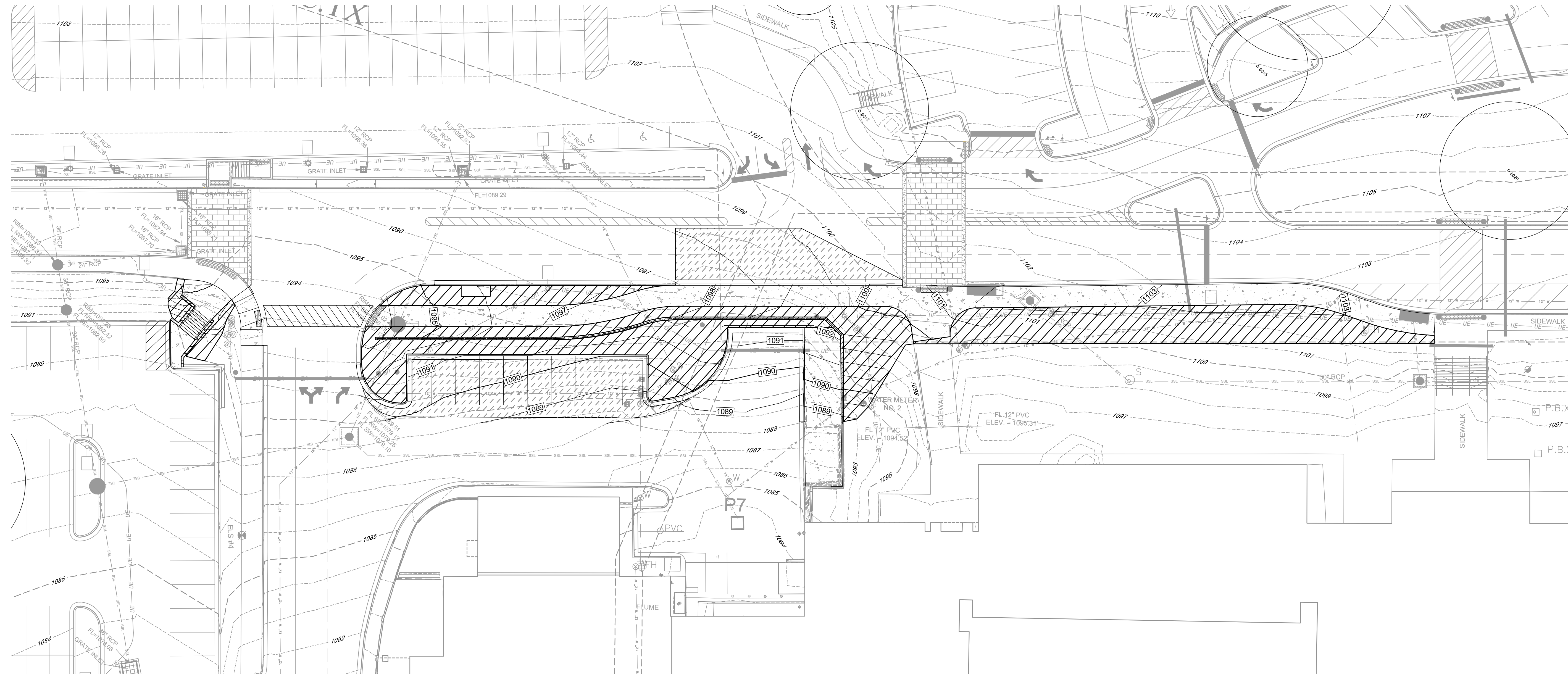
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SINCE 1975
INC.

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SCALE: 1" = 20'

LEGEND

- PROP. ROW
- PROP. PLAT BOUNDARY
- LOC LIMIT OF CONSTRUCTION
- ▨ PROP. HYDROMULCH
- 10 TREE TO REMAIN
- 10 TREE TO BE REMOVED

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.

NO.	DATE	REVISION	BY

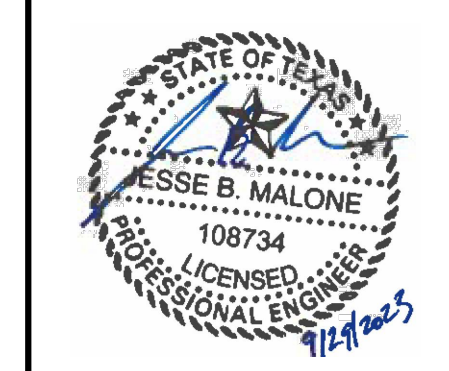
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ENLARGED CAFETERIA PARKING RESTORATION

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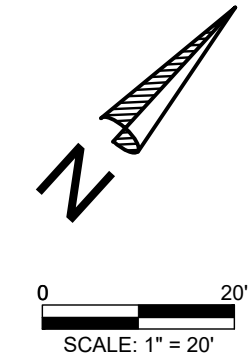
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LEGEND

	PROP. ROW
	PROP. PLAT BOUNDARY
	LOC
	PROP. HYDROMULCH
	TREE TO REMAIN
	TREE TO BE REMOVED

- NOTES:**
- NO CONSTRUCTION EQUIPMENT OR VEHICLE ALLOWED OUTSIDE LIMITS OF CONSTRUCTION (LOC).
 - SLOPE MATTING ON ALL SLOPES 3:1 OR GREATER, CLASS 1, TYPE B PER LCRA TECHNICAL MANUAL.

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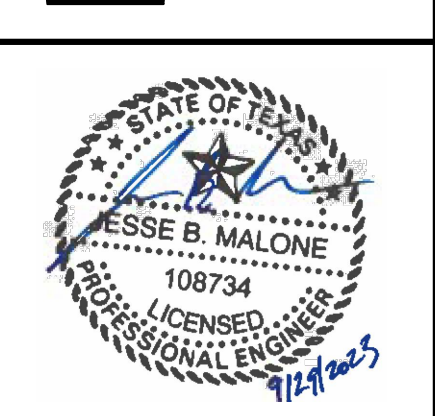
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ENLARGED ANNEX BLDG 1 PARKING RESTORATION

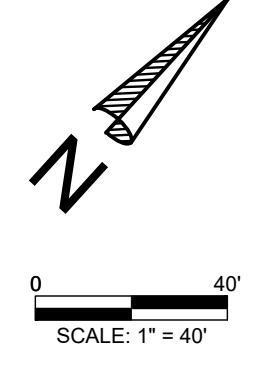
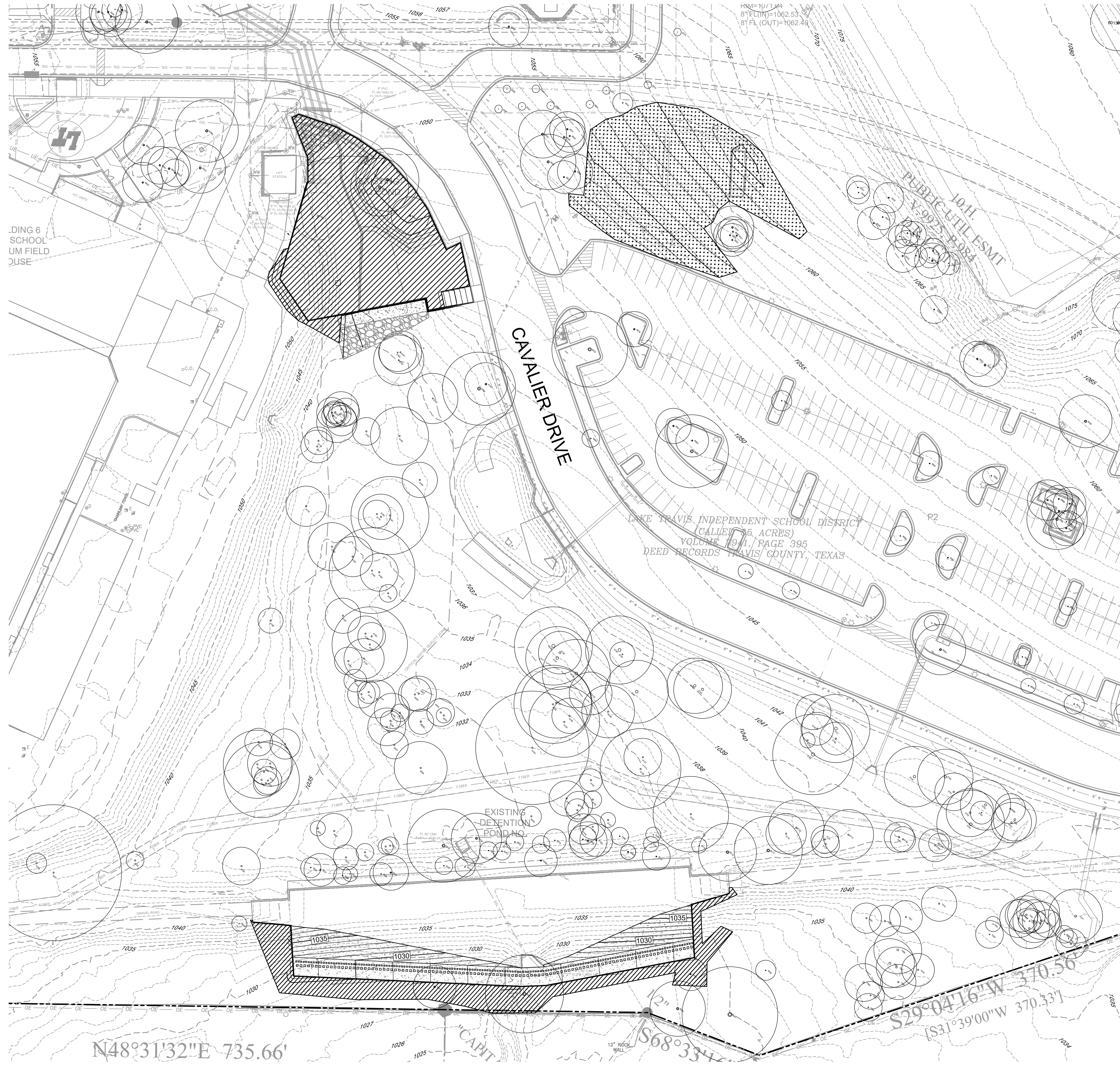
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LEGEND

	PROP. ROW
	PROP. PLAT BOUNDARY
	LOC
	PROP. HYDROMULCH
	PROP. SOD
	TREE TO REMAIN
	TREE TO BE REMOVED

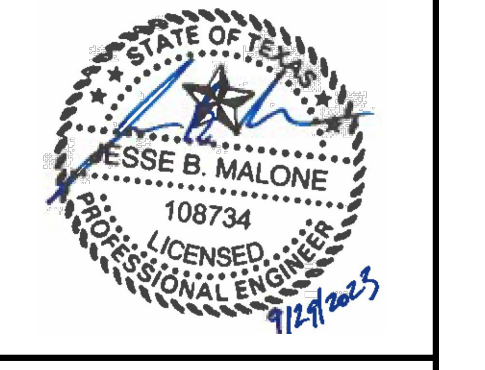
- NOTES:**
- NO CONSTRUCTION EQUIPMENT OR VEHICLE ALLOWED OUTSIDE LIMITS OF CONSTRUCTION (LOC).
 - SLOPE MATTING ON ALL SLOPES 3:1 OR GREATER, CLASS 1, TYPE B PER LCRA TECHNICAL MANUAL.

- NOTES:**
- INITIATE PERMANENT STABILIZATION IMMEDIATELY ONCE WORK HAS CEASED AND FINAL GRADE HAS BEEN ACHIEVED IN ANY GIVEN AREA.
 - THE FINAL STABILIZATION/REVEGETATION EFFORTS SHALL BE IN ACCORDANCE WITH THE APPROVED RESTORATION PLAN DETAILS AND SPECIFICATIONS.
 - ALL 3:1 SLOPES OR STEEPER REQUIRE SOIL RETENTION BLANKET (SRB).
 - 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.
 - ALL COMMON AREAS INCLUDING PWQC STRUCTURES MUST BE PERMANENTLY STABILIZED PER JURISDICTIONAL TECHNICAL SPECIFICATIONS BEFORE A CONDITIONAL ACCEPTANCE CAN BE ISSUED.
 - 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.
 - ANY DISTURBED AREA(S) NOT INDICATED TO BE RESTORED ON THE RESTORATION PLAN REQUIRES THE SAME EFFORTS AS THOSE INDICATED.
 - ALL DISTURBED AREAS MUST MEET THE REQUIREMENT FOR PERMANENT STABILIZATION.

NO.	DATE	REVISION	BY

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

MALONE ★ WHEELER
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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:

- 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.
- 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).
- 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.
- Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strap-on planking to a height of 6 feet (or to the limits of lower branching) in addition to the reduced fencing provided.
- 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)

- Measure tree diameters at a height of 4-1/2 feet (4 feet 8 inches).
- If the tree forks at 4-1/2 feet, measure below the swell.
- 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")
- 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.
 - Measure all trunks larger than 6 inches at a height of 4-1/2 feet and add for total diameter inches.
 - 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.
 - Example: A Spanish oak with three 8 inch stems and two 4 inch stems would be shown as "24 inch multi-stem Spanish Oak."
 - Only the three 8 inch stems would count toward the total.
 - Show the total diameter inches in the tree list. Do not show as "8" 8" SD" or "8 inch triple oak", etc.
- Clusters of many small stems forking from the ground do not need to be measured or shown on the tree survey.
 - The only exception is the rare Texas Madrone, for which the tree survey should show an approximate height and drip line.

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

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 Plans, Subdivision Improvement Plans and Site Development Plans require an accurate tree survey which meets the following specifications:

- The surveyor should locate and measure the following trees according to City of Lakeway standards:
 - All hardwood trees six (6) inches and larger in diameter.
 - All trees of any size of the following species which is rare in Lakeway: Texas Madrone (*Asplenium platyneuron* var. *texanum*).
- All trees should be tagged and numbered on site.
- The tree survey plat should include a tree list showing tag number, DBH and species.
- The tree list should show the total diameter inches of multi-trunk trees, with the exception of Texas Madrone.
- Texas Madrone should be shown in the tree list and on the survey with an approximate height and an actual (not calculated) drip line.
- 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.
 - Example: a 10 inch diameter oak would show a calculated drip line with a 10 foot radius.
- The tree survey plat must contain a surveyor's certification (Exhibit I).
- 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 the 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.

SILT FENCE FABRIC SPECIFICATIONS (PER TCEQ RG348-1.4.3(1))

MINIMUM UNIT WEIGHT = 4.5 OZ/YD
MINIMUM MULLEN BURST STRENGTH = 190 LB/SQ. IN.
MINIMUM ULTRAVIOLET STABILITY = 70%
MINIMUM APPARENT OPENING SIZE = US SIEVE NO. 30

STANDARD SYMBOL FOR SILT FENCE (SF)

- 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).
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SHARP OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- 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.
- SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE WHICH IS IN TURN ATTACHED TO THE FENCE POST.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 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.

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09/01/2011
432S-1

ROCK BERM

STANDARD SYMBOL FOR ROCK BERM (RB)

NOTES:

- USE ONLY OPEN GRADE ROCK 75 to 125 mm (3 to 5") DIAMETER FOR ALL CONDITIONS.
- 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).
- 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.
- IF SEDIMENT REACHES A DEPTH EQUAL TO ONE THIRD THE HEIGHT OF THE BERM OR 100 mm (4 INCHES) OR LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION PROBLEM.
- WHEN THE SITE IS COMPLETELY STABILIZED THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

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02/04/2010
639S-1

STABILIZED CONSTRUCTION ENTRANCE

NOTES:

- STONE SIZE: 75-125 mm (3"-5") OPEN GRADE ROCK.
- LENGTH: AS EFFECTIVE BUT NOT LESS THAN 8 m (26').
- THICKNESS: NOT LESS THAN 200 mm (8").
- WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
- 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 DRAINAGE INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, CATCH OR WATERCOURSE USING APPROVED METHODS.
- 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. ALL SEDIMENT THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
- DRAINAGE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

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02/23/2010
641S-1

CONCRETE WASHOUT AREA

CONCRETE WASHOUT AREA INSTALLATION NOTES:

- SEE PLAN VIEW FOR LOCATIONS OF CONCRETE WASHOUT AREA (TO BE PLACED A MINIMUM OF 100' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS.)
- THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- STABILIZED CONSTRUCTION ENTRANCE (DETAIL 641S-1) IS REQUIRED AT THE ACCESS POINT.
- 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 TRUCKS.
- EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES:

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

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641S-1

INLET PROTECTION DETAIL FOR SUMP INLETS

MAINTENANCE NOTES:

- SEDIMENT ACCUMULATION SHOULD BE REMOVED IF IT EXCEEDS 10% HEIGHT OF THE BAGS.
- REPLACE BAGS AS APPROPRIATE IF HOLES OR EXTREME WEATHERING IS APPARENT.
- BAGS SHALL BE INTERVIEWED TO ELIMINATE GAPS.
- INSPECT AFTER RAINFALL TO DETERMINE IF SEDIMENT REMOVAL OR REPAIRS ARE NEEDED TO RESTORE PROPER FUNCTION OF THE BMP.

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REINFORCED CURB AND GUTTER SECTION

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01/04/10
430S-2

SIDEWALK

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03/26/08
432S-1

SIDEWALK

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SIDEWALK OVER UTILITY SERVICE LINES

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BAGGED GRAVEL GRATE INLET PROTECTION DETAIL

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03/26/08
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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH

STANDARD DETAILS

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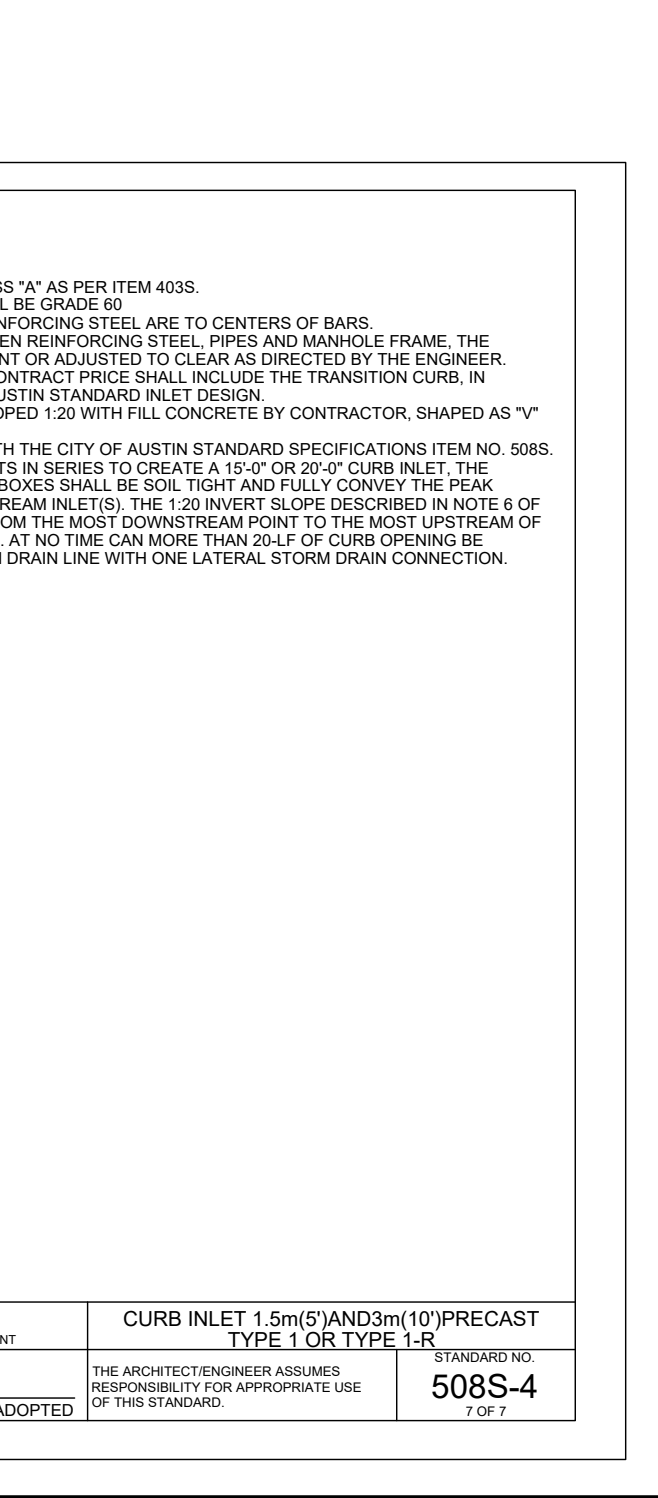
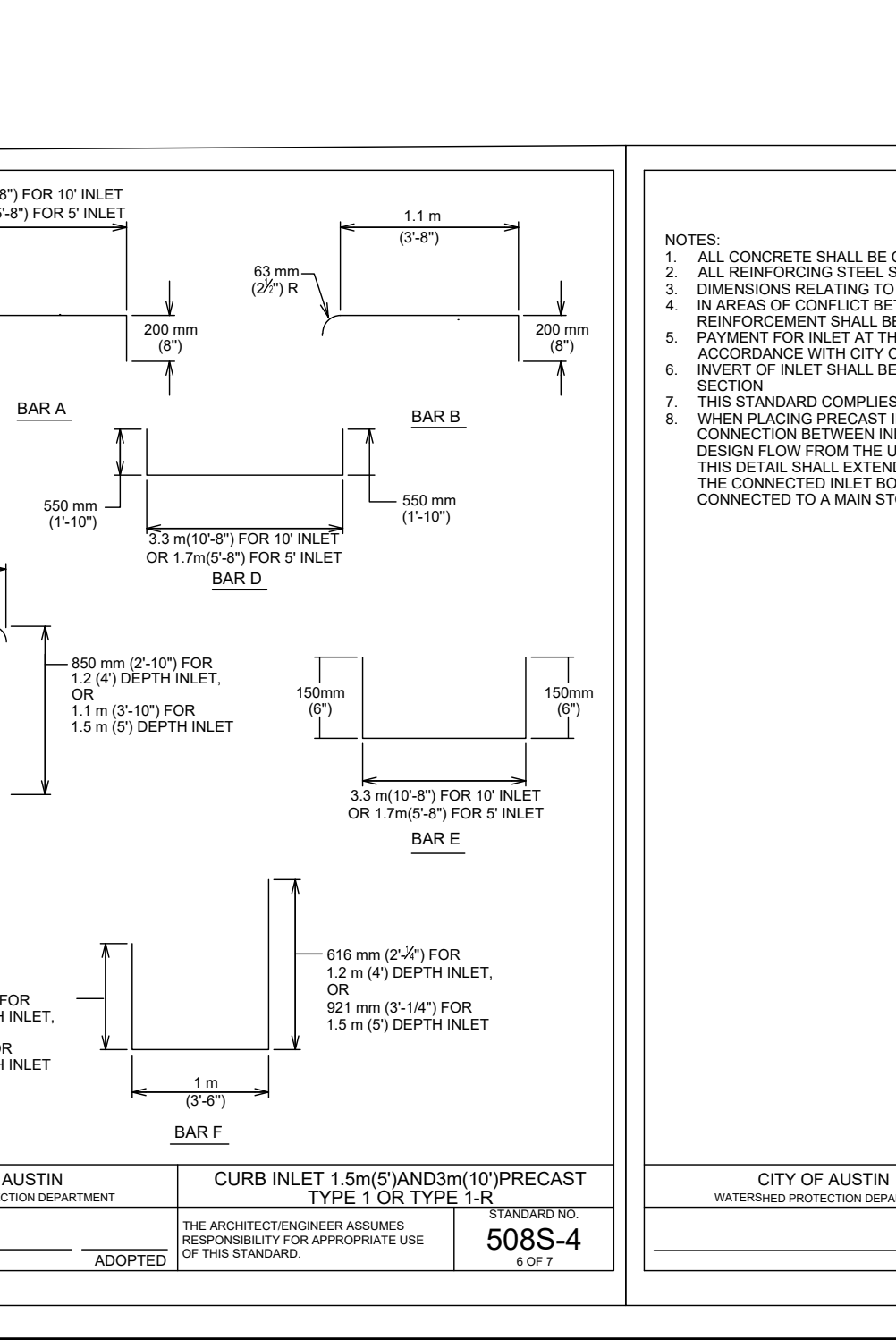
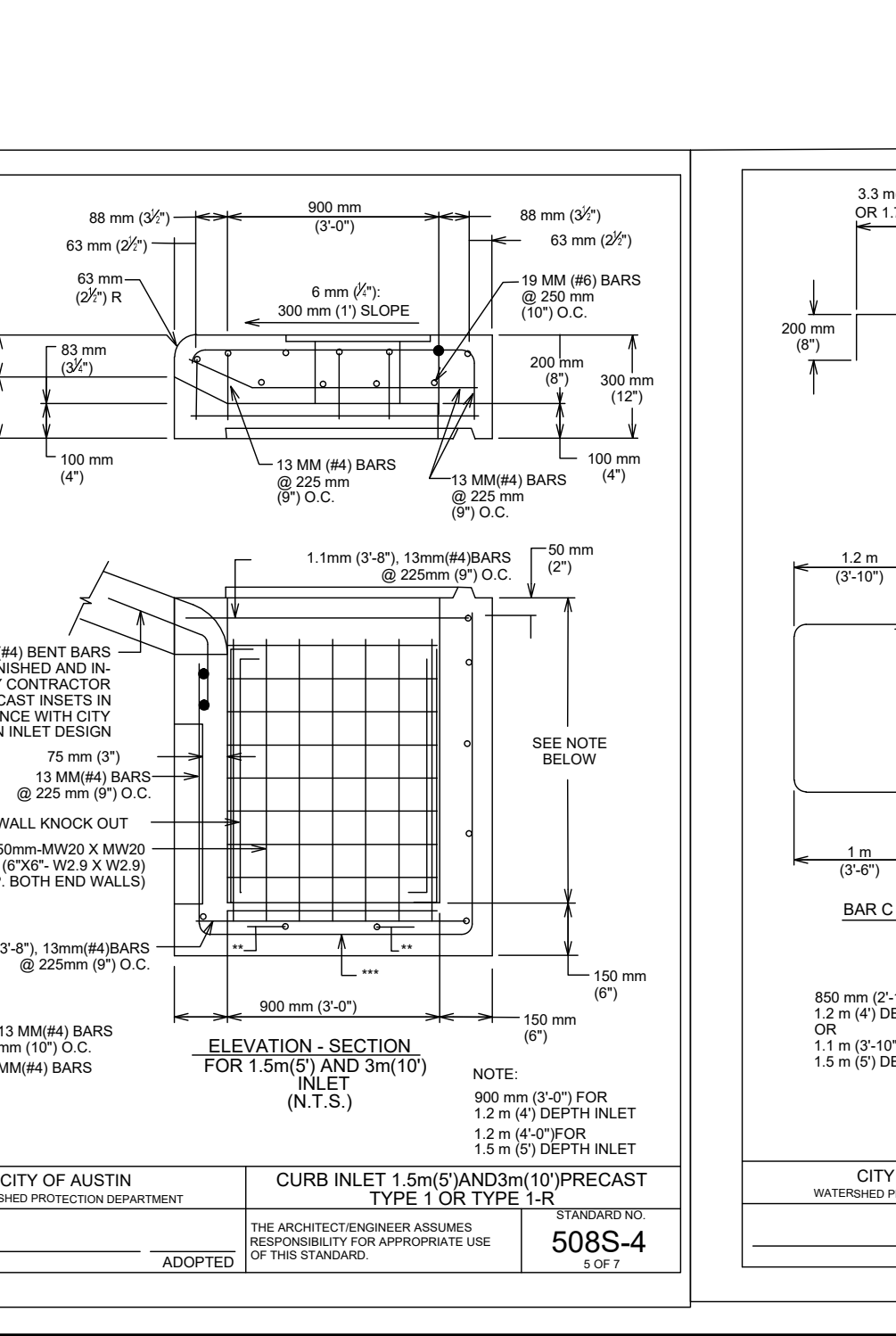
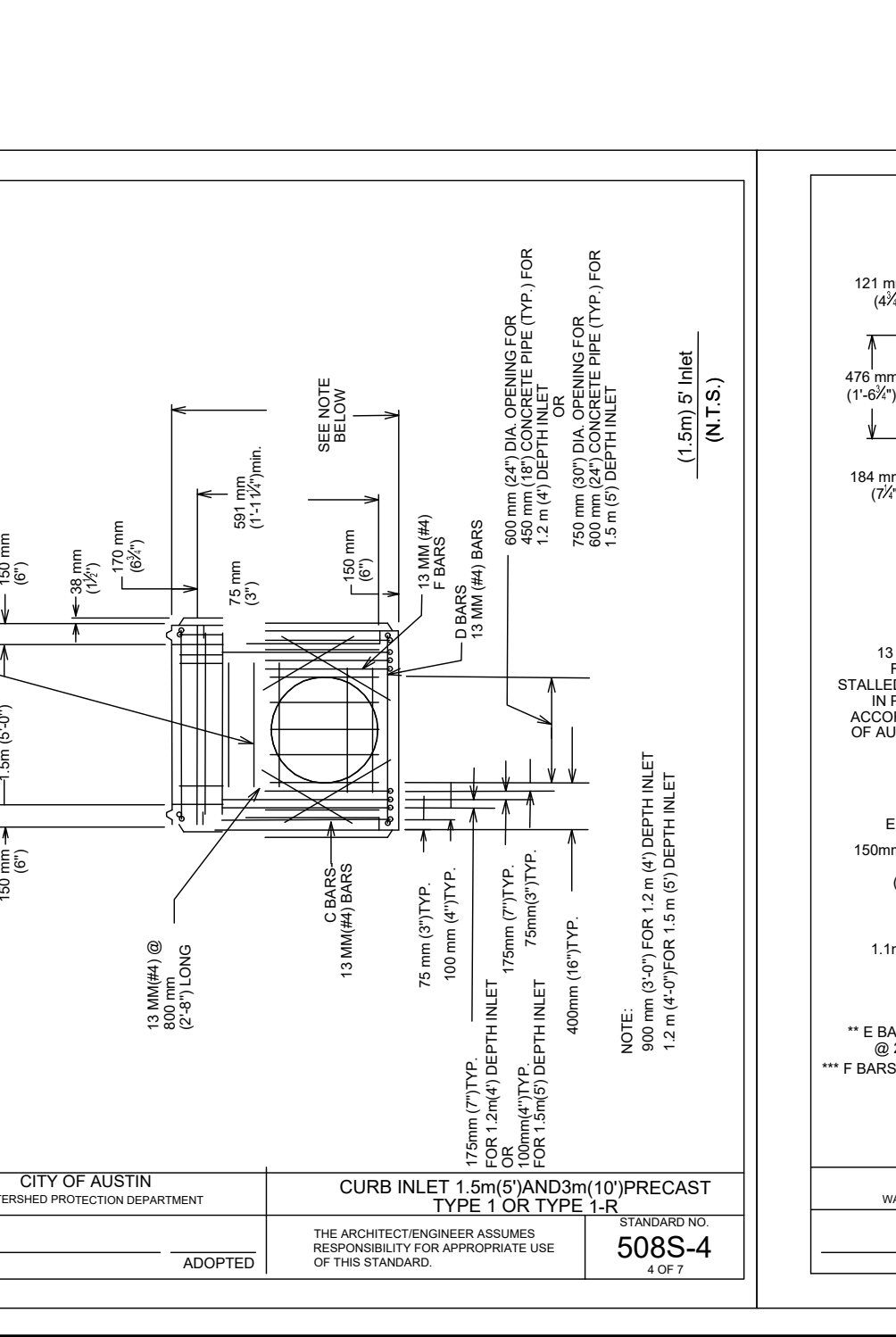
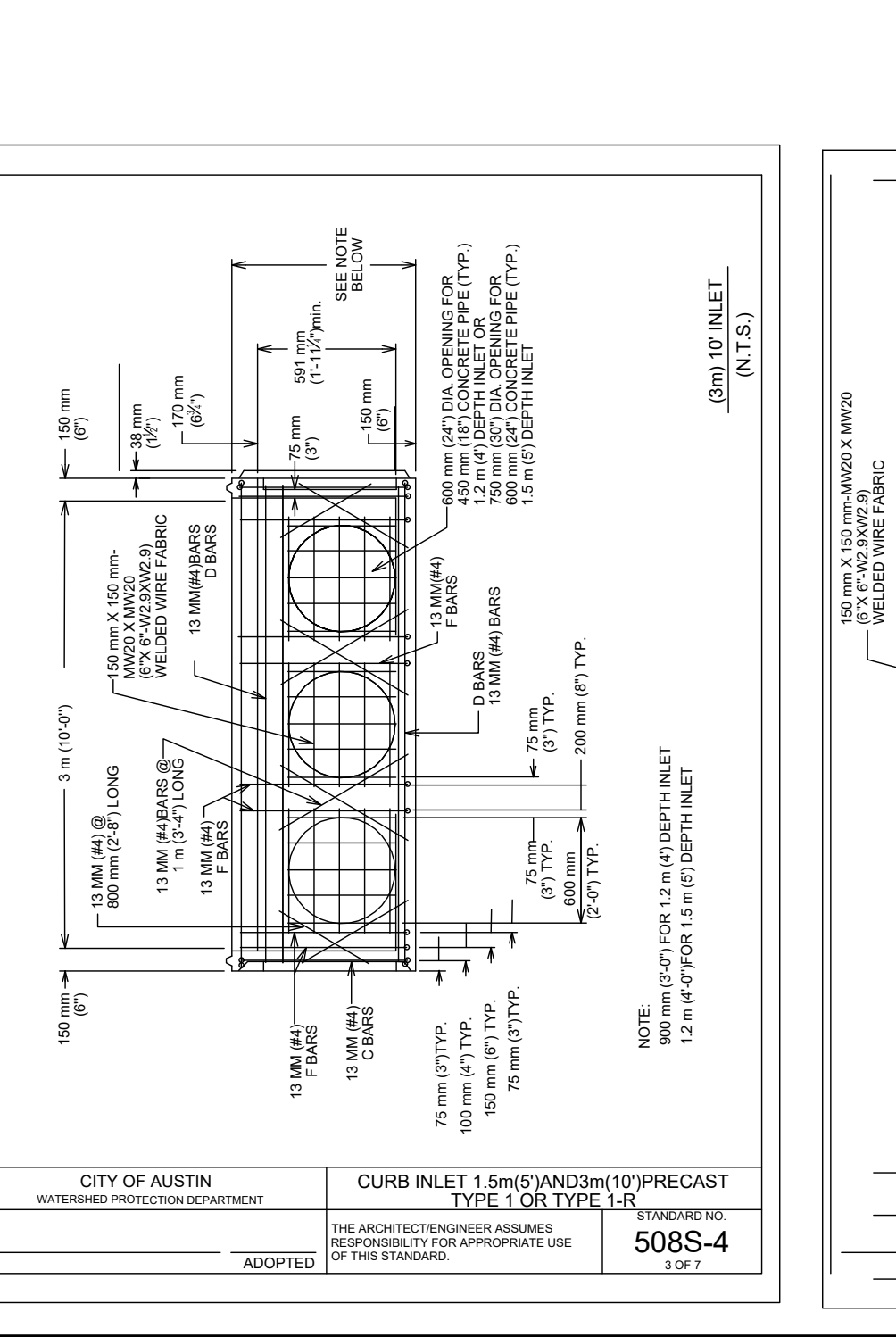
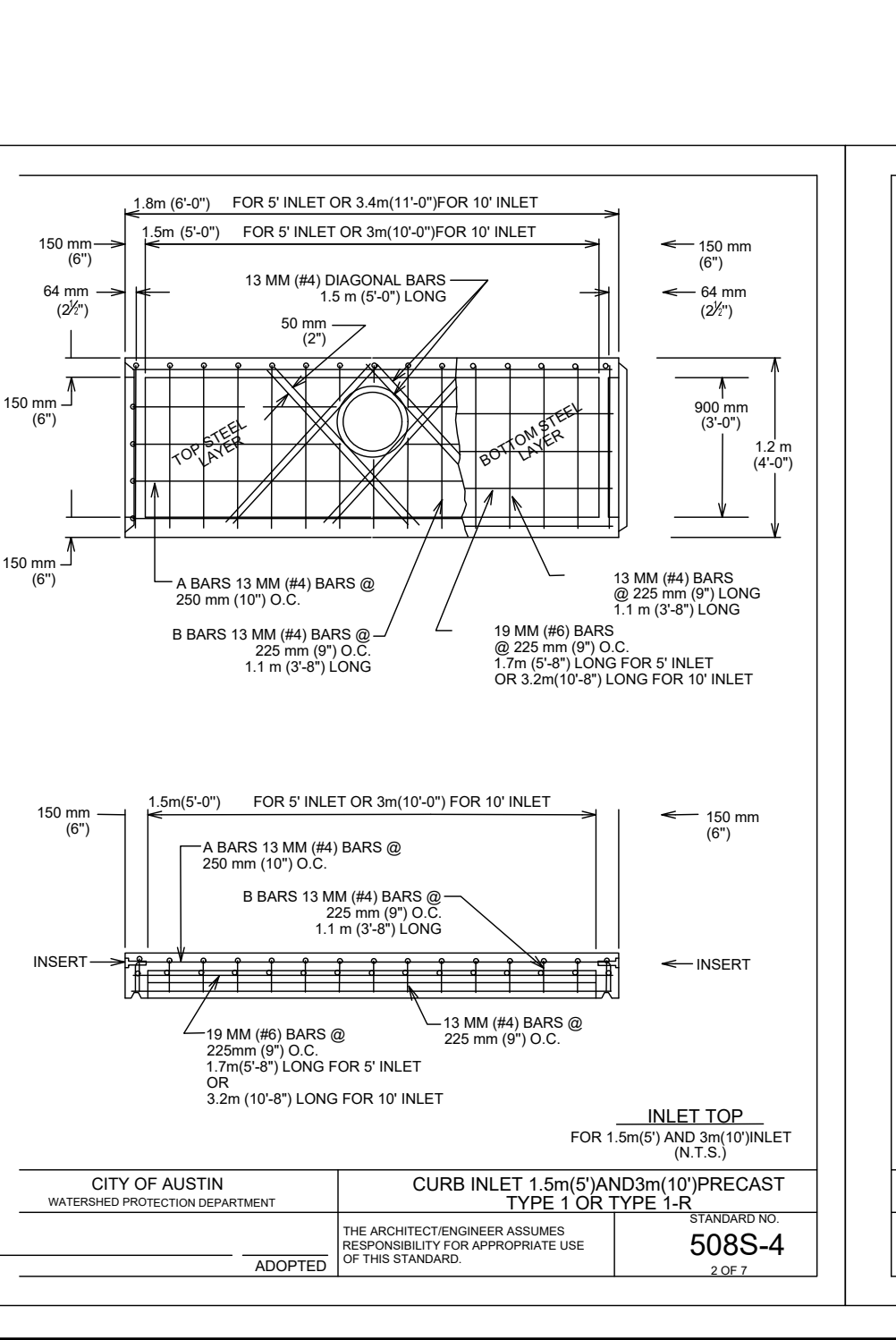
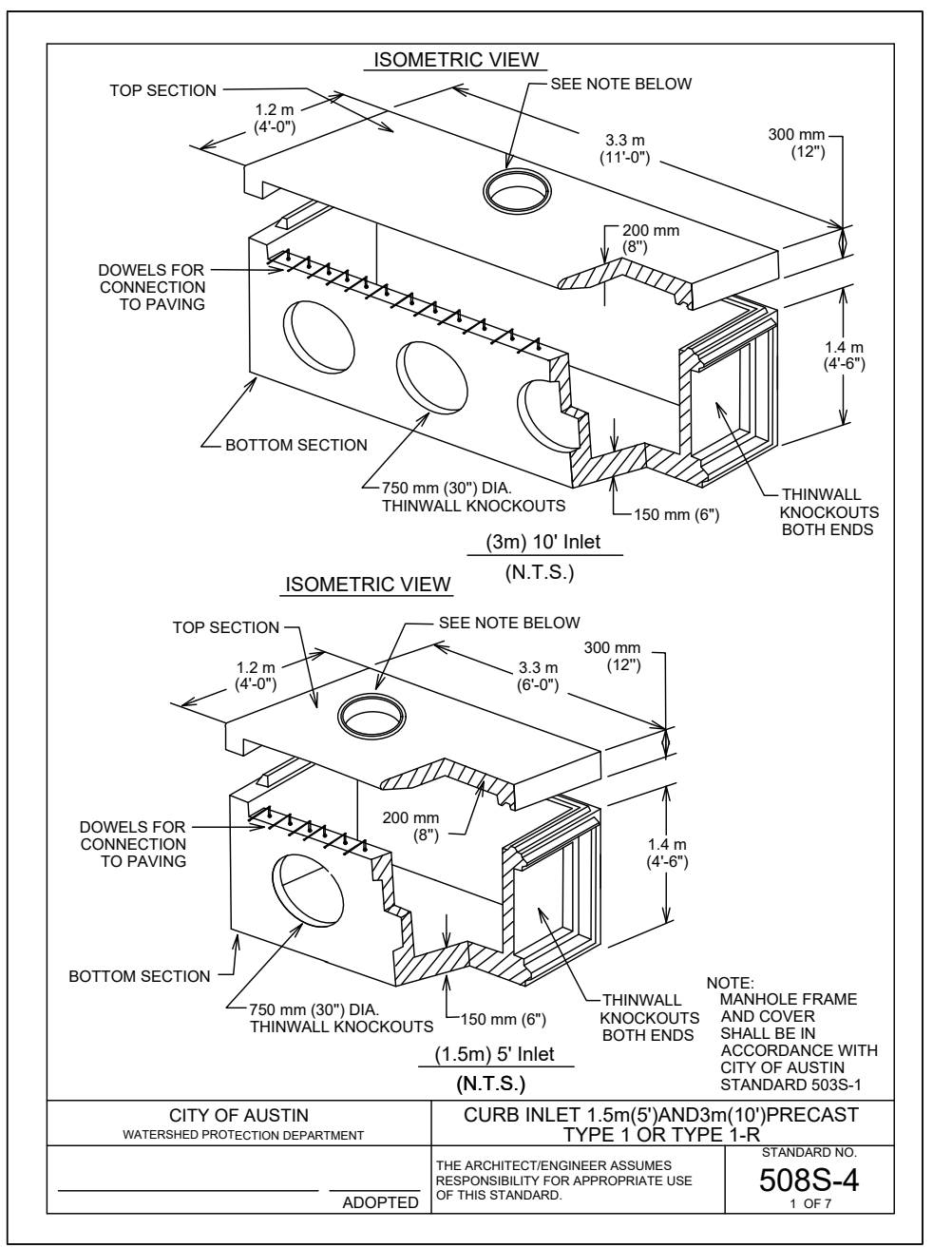
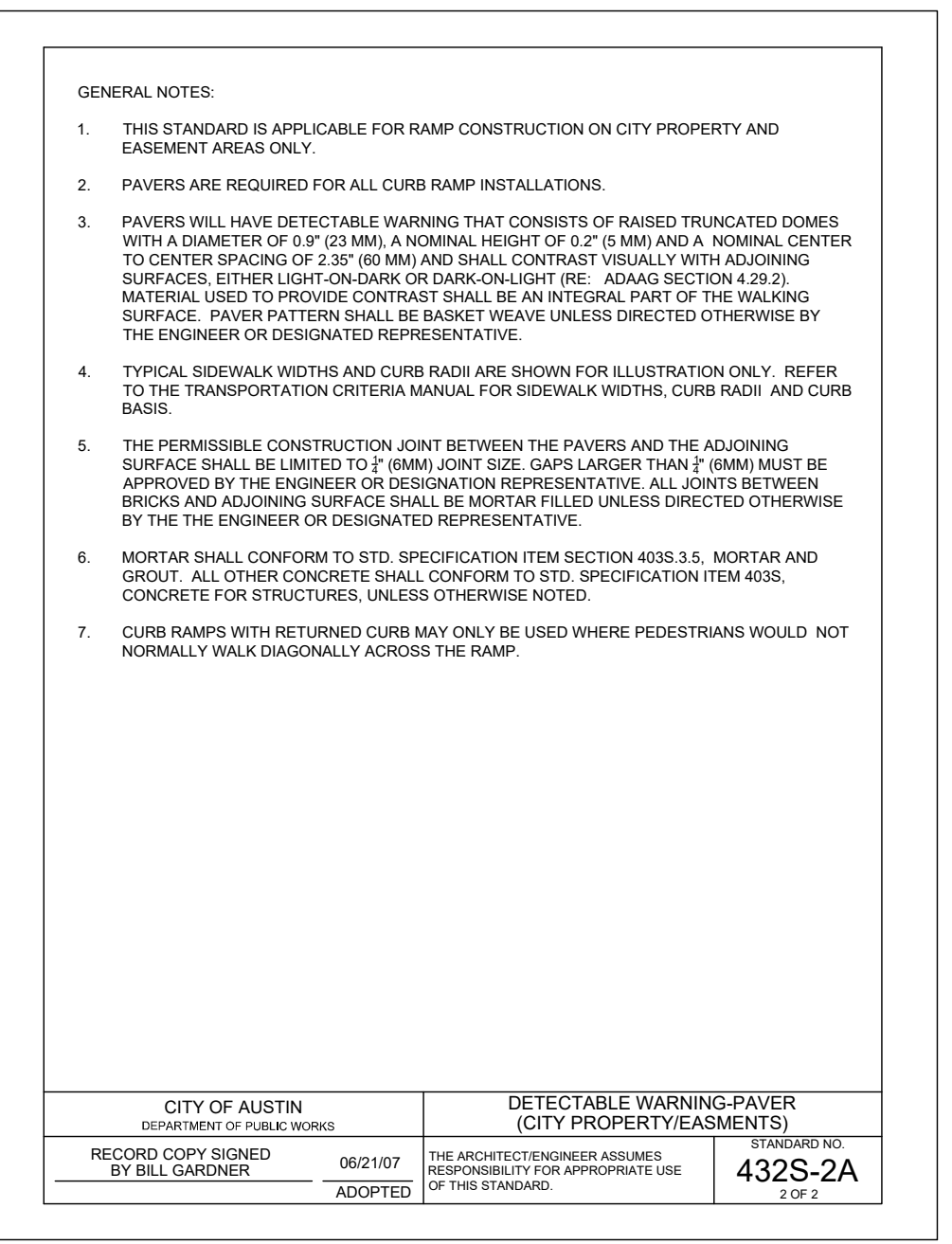
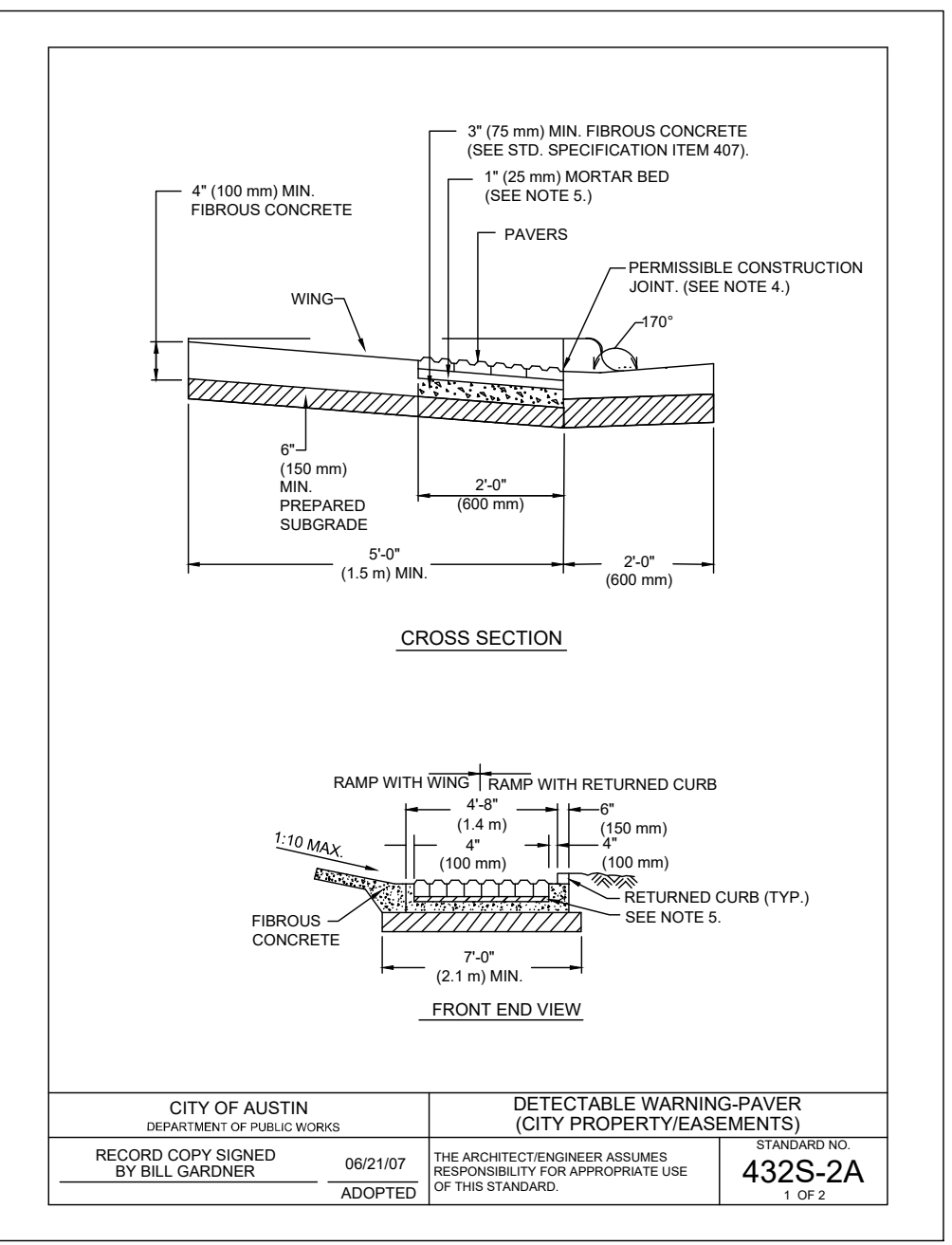
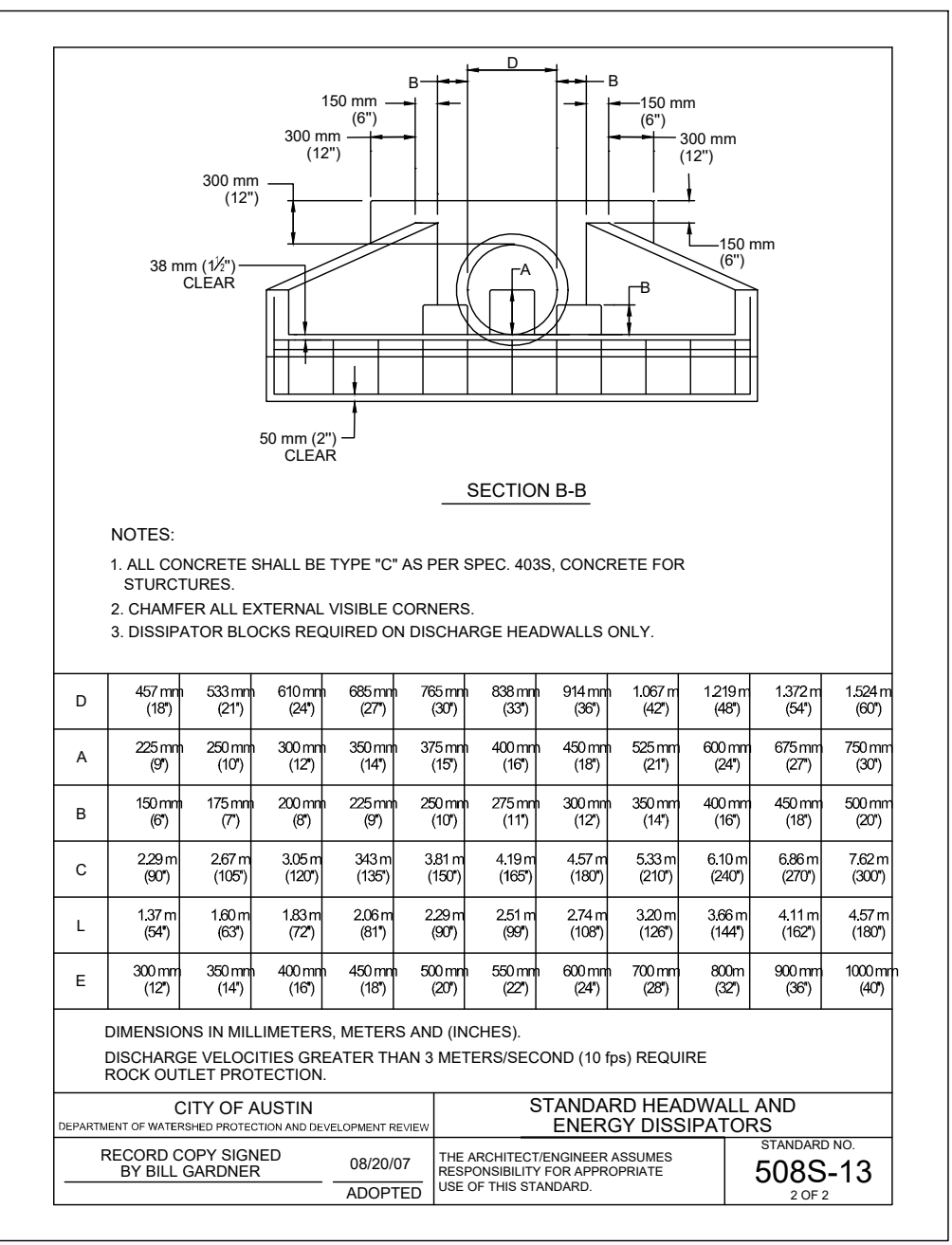
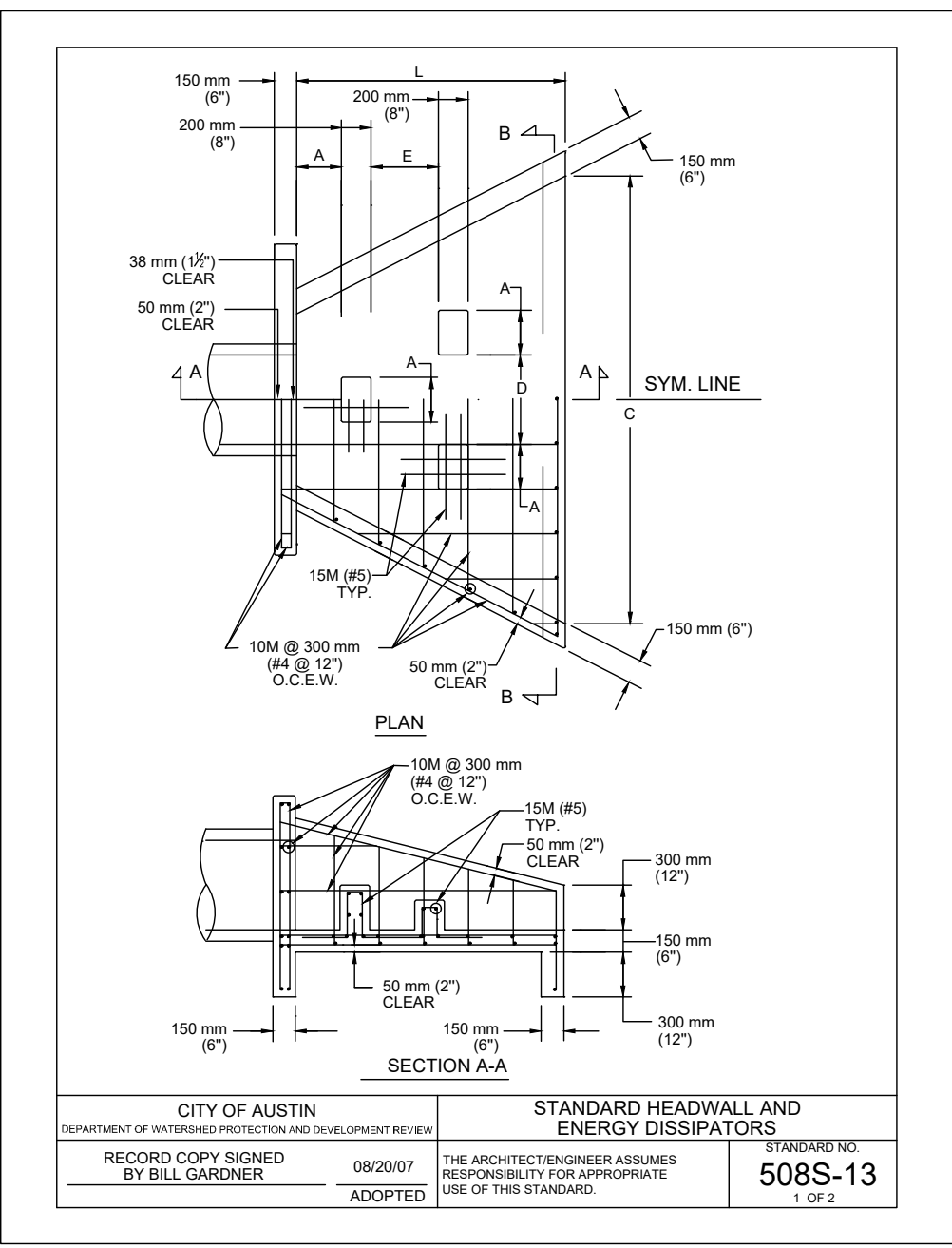
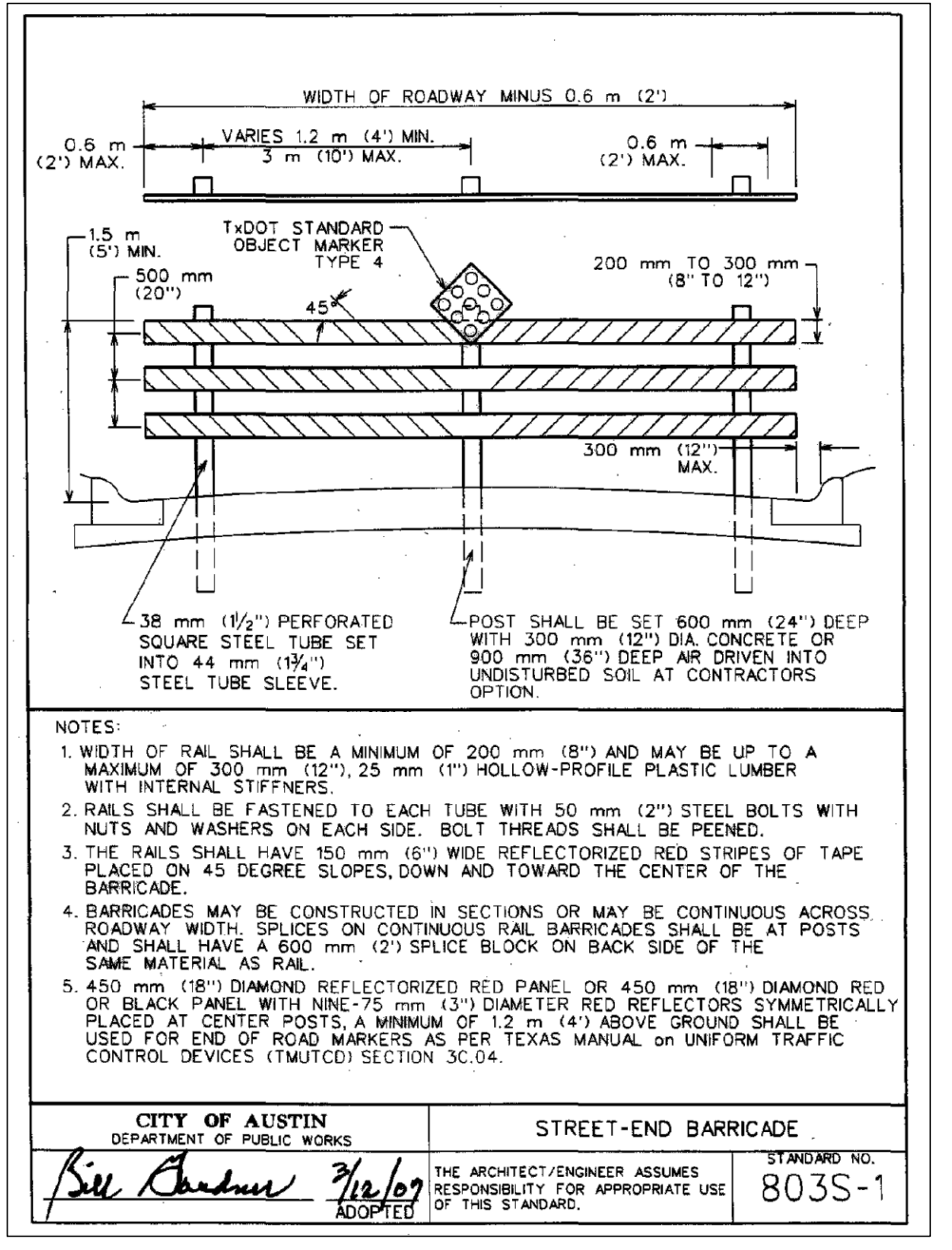
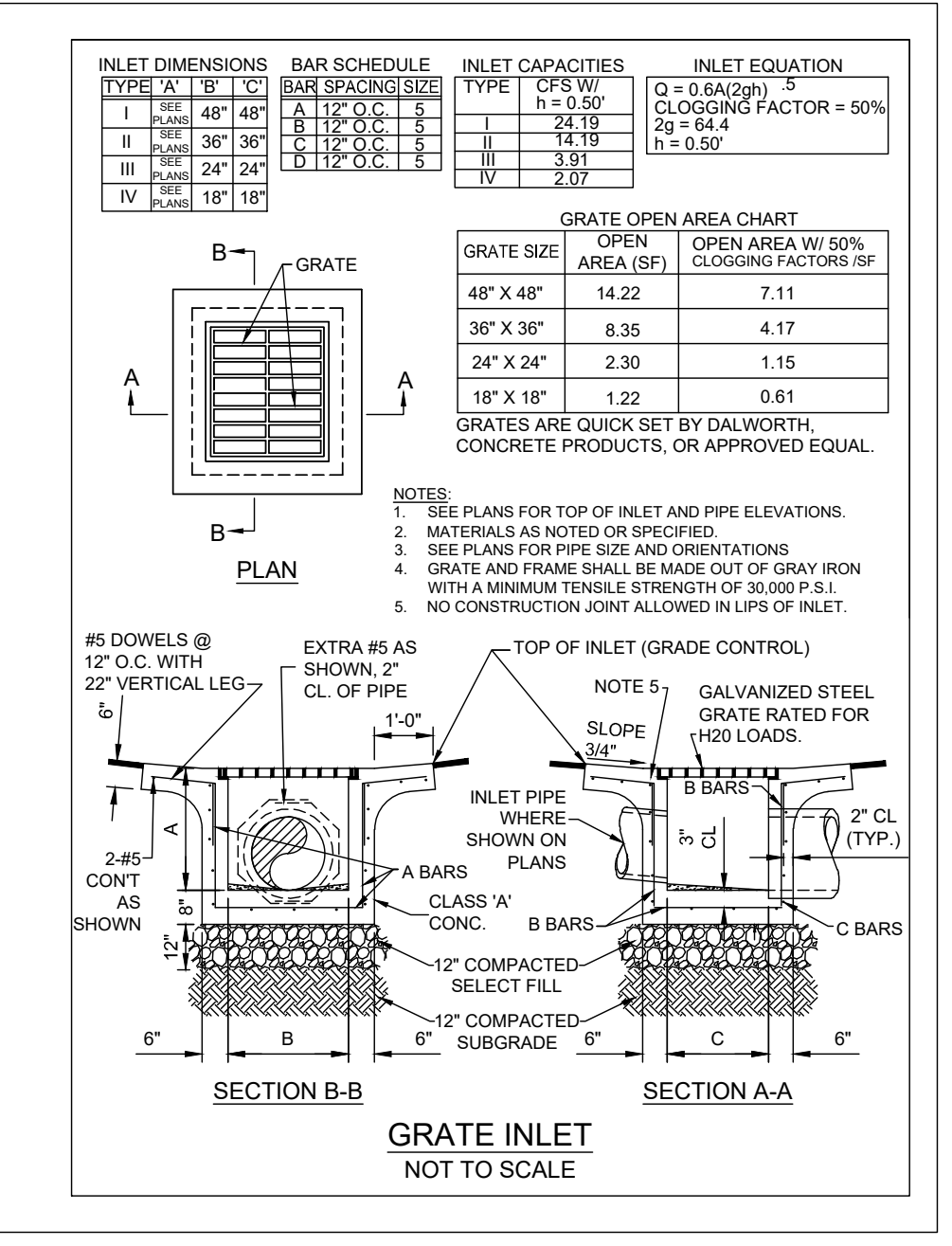
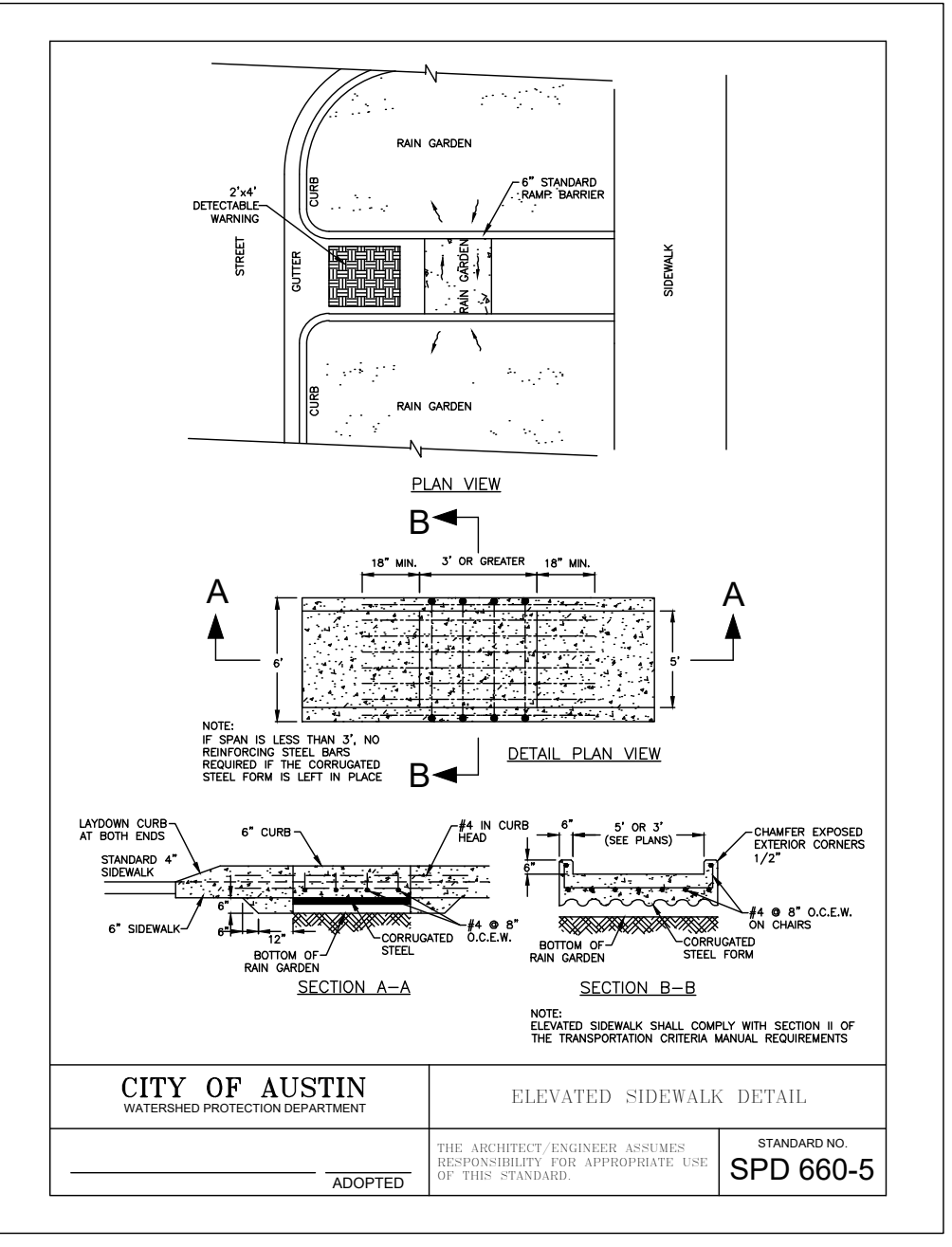
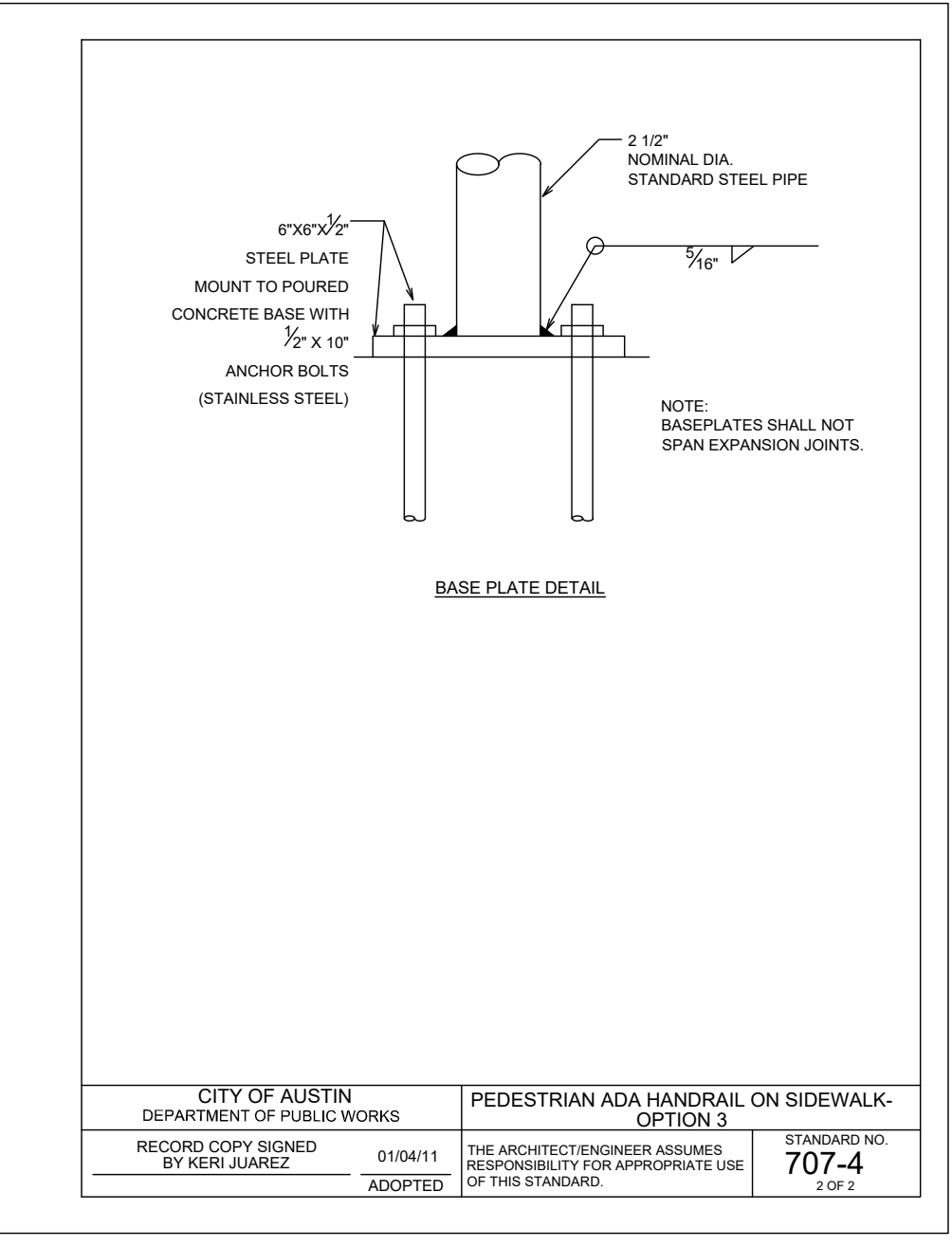
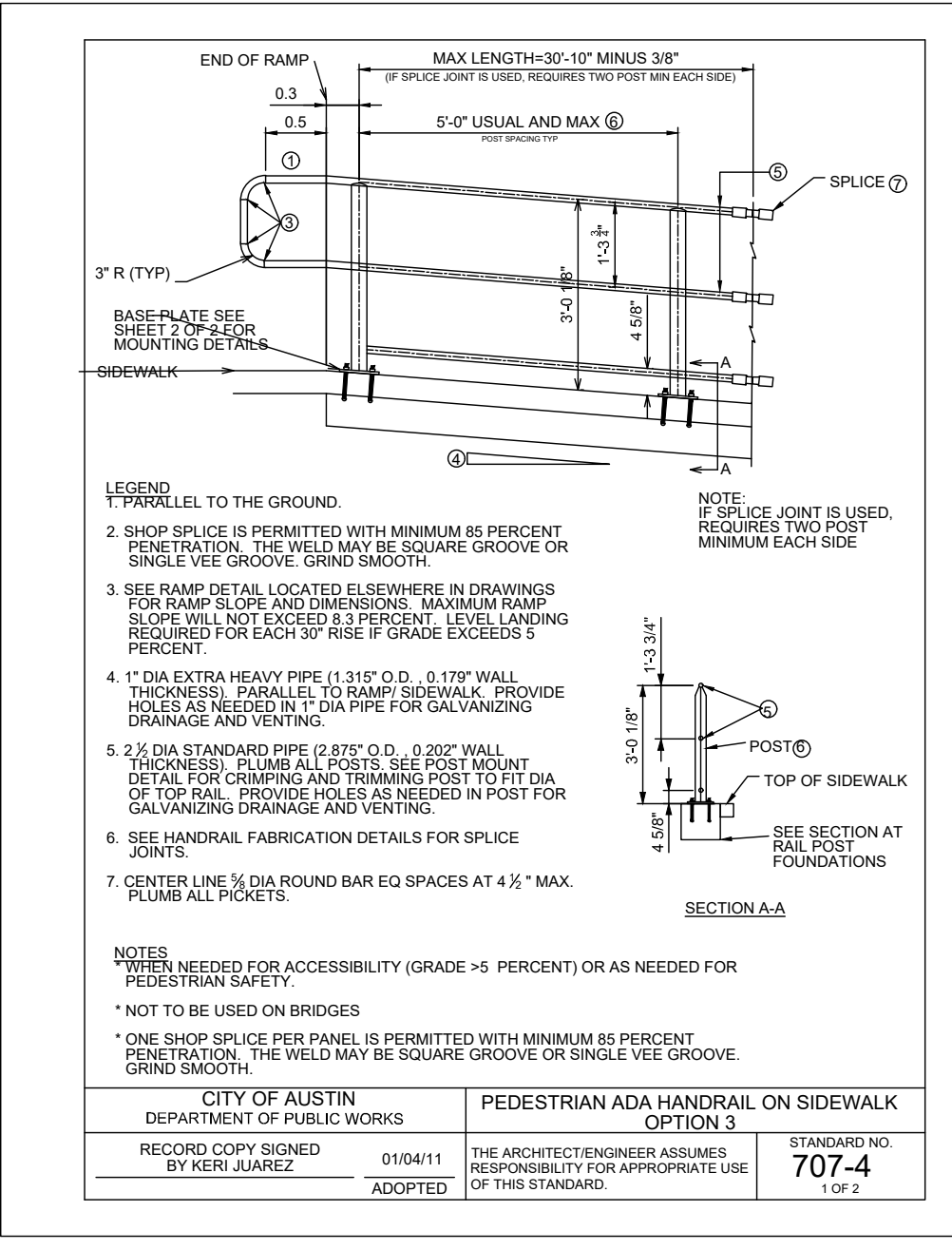
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CHECKED BY: JGM
APPROVED BY: SGC
DATE: 9/29/2023

SHEET 56
OF 62

F:\LTD OVERALL\PROJECTS\2-105-AUS-LTSD HS 2023 PRKNG\DRAWINGS\PLANS\104 STANDARD DETAILS.DWG, 9/29/2023, ANTHONY VINCENT



BY: _____

REVISION: _____

DATE: _____

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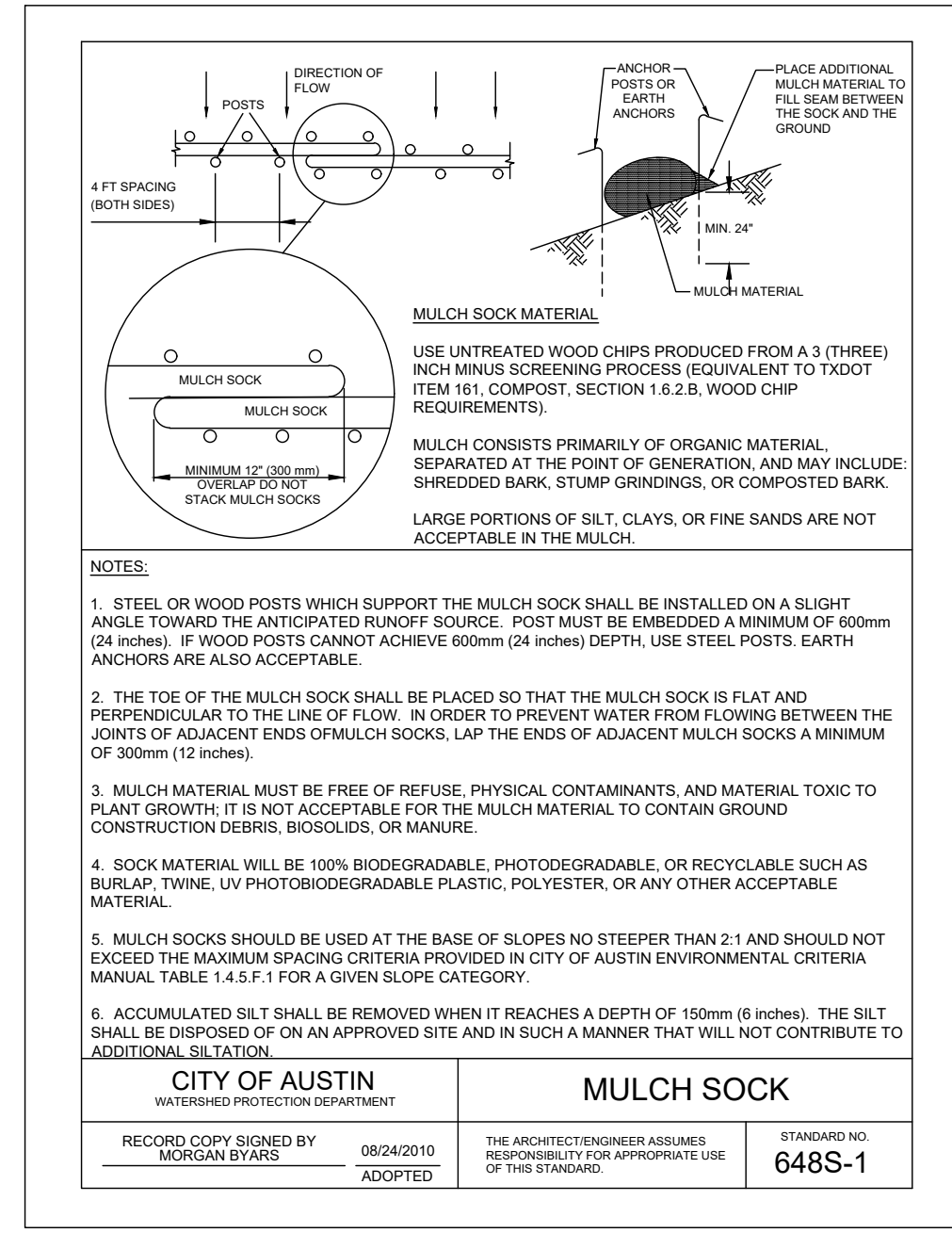
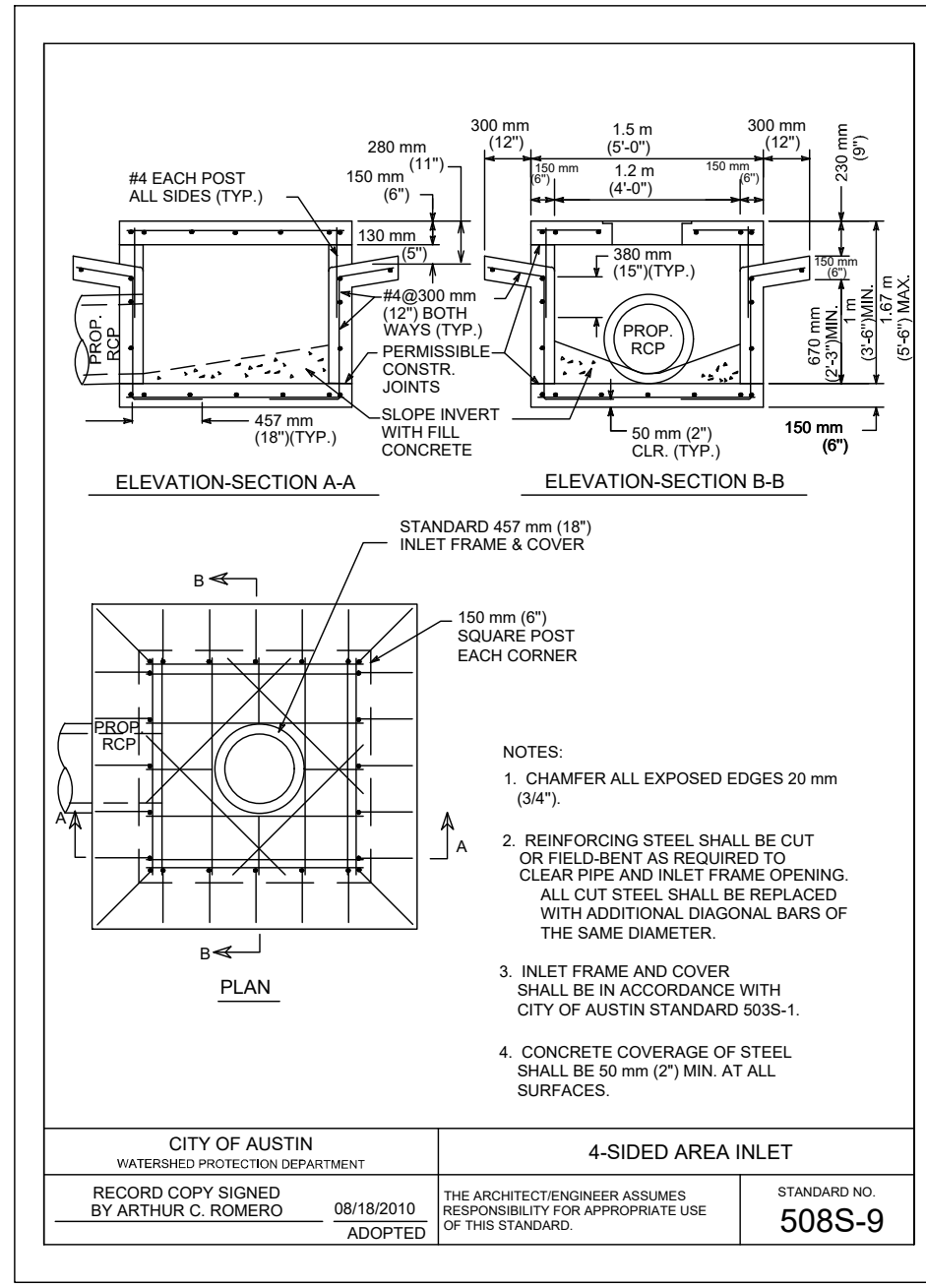
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
3324 RANCH ROAD 620 SOUTH

STANDARD DETAILS

MALONE WHEELER
INC. 1975
CIVIL ENGINEERING & DEVELOPMENT CONSULTING & PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

DESIGN BY: SGC
CHECKED BY: JGM
APPROVED BY: SGC
DATE: 9/29/2023

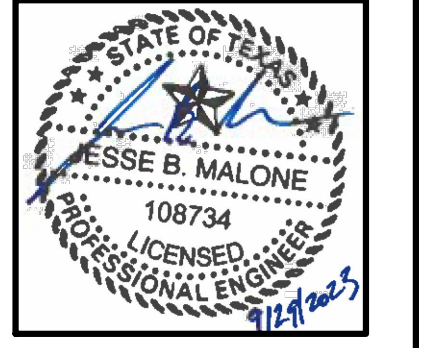
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OF 62



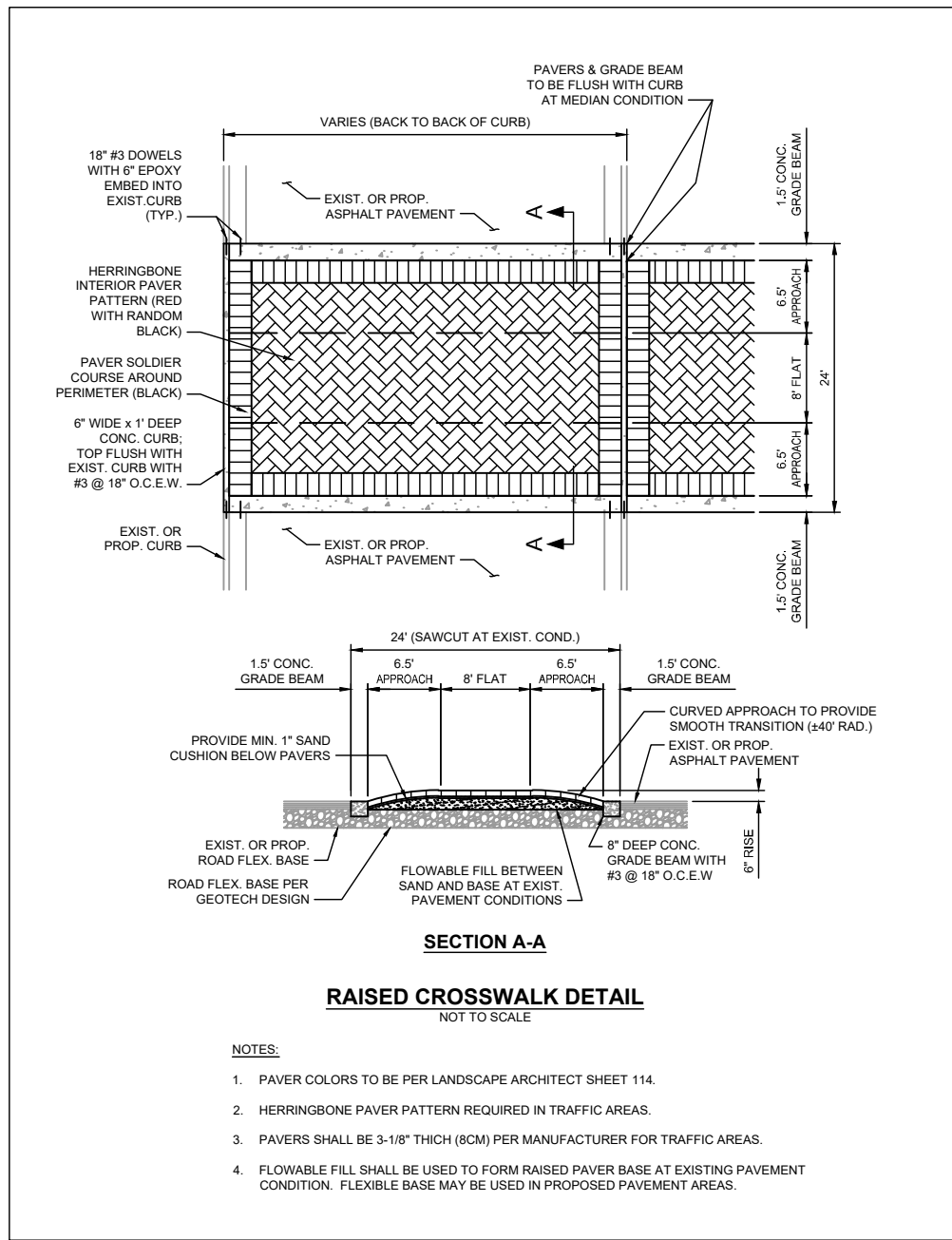
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1
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DESIGN BY : SGC
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 APPROVED BY : JBM
 DATE : 9/29/2023



R-4900 HEAVY DUTY TRENCH

Materials: All forms and granules are furnished in granular form, meeting ASTM A44 Class 55-9 for heavy-duty use. For extra heavy-duty use or superior durability requirements, see our ductile iron Alloy and Port Grating Series on page 286.

Neenah recommends project engineers avoid the use of light duty trench installations because it is likely that installation will be subjected to heavy loading which will cause more time, failure. The use of a light duty trench will be changed to heavy duty use unless otherwise specified.

Dimensions in inches.

Line Number	Quantity	A	B	C	Type A	Type C	Type D	Type E	Type P	Type Q
R-4900-001	1	12	12	12	x	x	x	x	x	x
R-4900-002	1	12	12	12	x	x	x	x	x	x
R-4900-003	1	12	12	12	x	x	x	x	x	x
R-4900-004	1	12	12	12	x	x	x	x	x	x
R-4900-005	1	12	12	12	x	x	x	x	x	x
R-4900-006	1	12	12	12	x	x	x	x	x	x
R-4900-007	1	12	12	12	x	x	x	x	x	x
R-4900-008	1	12	12	12	x	x	x	x	x	x
R-4900-009	1	12	12	12	x	x	x	x	x	x
R-4900-010	1	12	12	12	x	x	x	x	x	x
R-4900-011	1	12	12	12	x	x	x	x	x	x
R-4900-012	1	12	12	12	x	x	x	x	x	x
R-4900-013	1	12	12	12	x	x	x	x	x	x
R-4900-014	1	12	12	12	x	x	x	x	x	x
R-4900-015	1	12	12	12	x	x	x	x	x	x
R-4900-016	1	12	12	12	x	x	x	x	x	x
R-4900-017	1	12	12	12	x	x	x	x	x	x
R-4900-018	1	12	12	12	x	x	x	x	x	x
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R-4900-025	1	12	12	12	x	x	x	x	x	x
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R-4900-030	1	12	12	12	x	x	x	x	x	x
R-4900-031	1	12	12	12	x	x	x	x	x	x
R-4900-032	1	12	12	12	x	x	x	x	x	x
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R-4900-041	1	12	12	12	x	x	x	x	x	x
R-4900-042	1	12	12	12	x	x	x	x	x	x
R-4900-043	1	12	12	12	x	x	x	x	x	x
R-4900-044	1	12	12	12	x	x	x	x	x	x
R-4900-045	1	12	12	12	x	x	x	x	x	x
R-4900-046	1	12	12	12	x	x	x	x	x	x
R-4900-047	1	12	12	12	x	x	x	x	x	x
R-4900-048	1	12	12	12	x	x	x	x	x	x
R-4900-049	1	12	12	12	x	x	x	x	x	x
R-4900-050	1	12	12	12	x	x	x	x	x	x

Notes: * Indicates availability. ** Deep ribs (smooth shop drawing for dimensions). Class B is "12" dimension times 1/2" or greater.

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

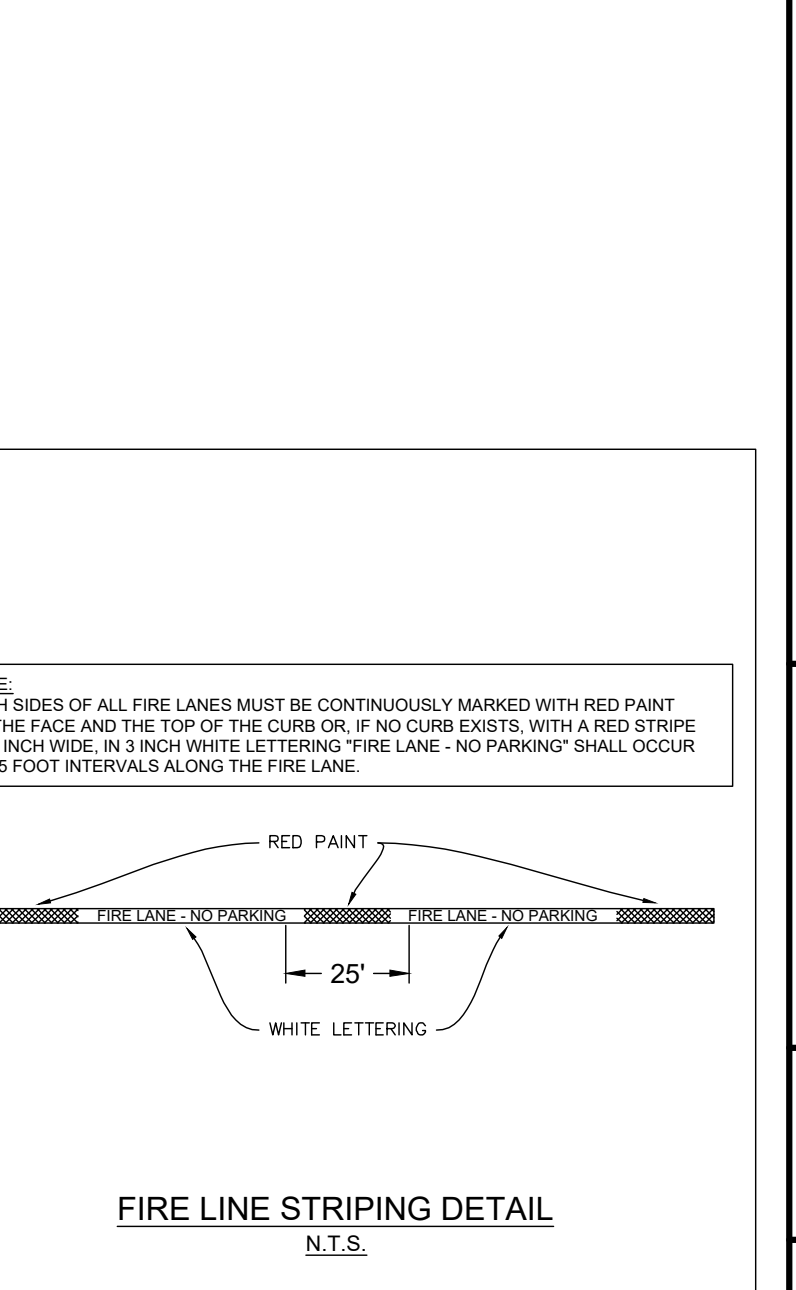
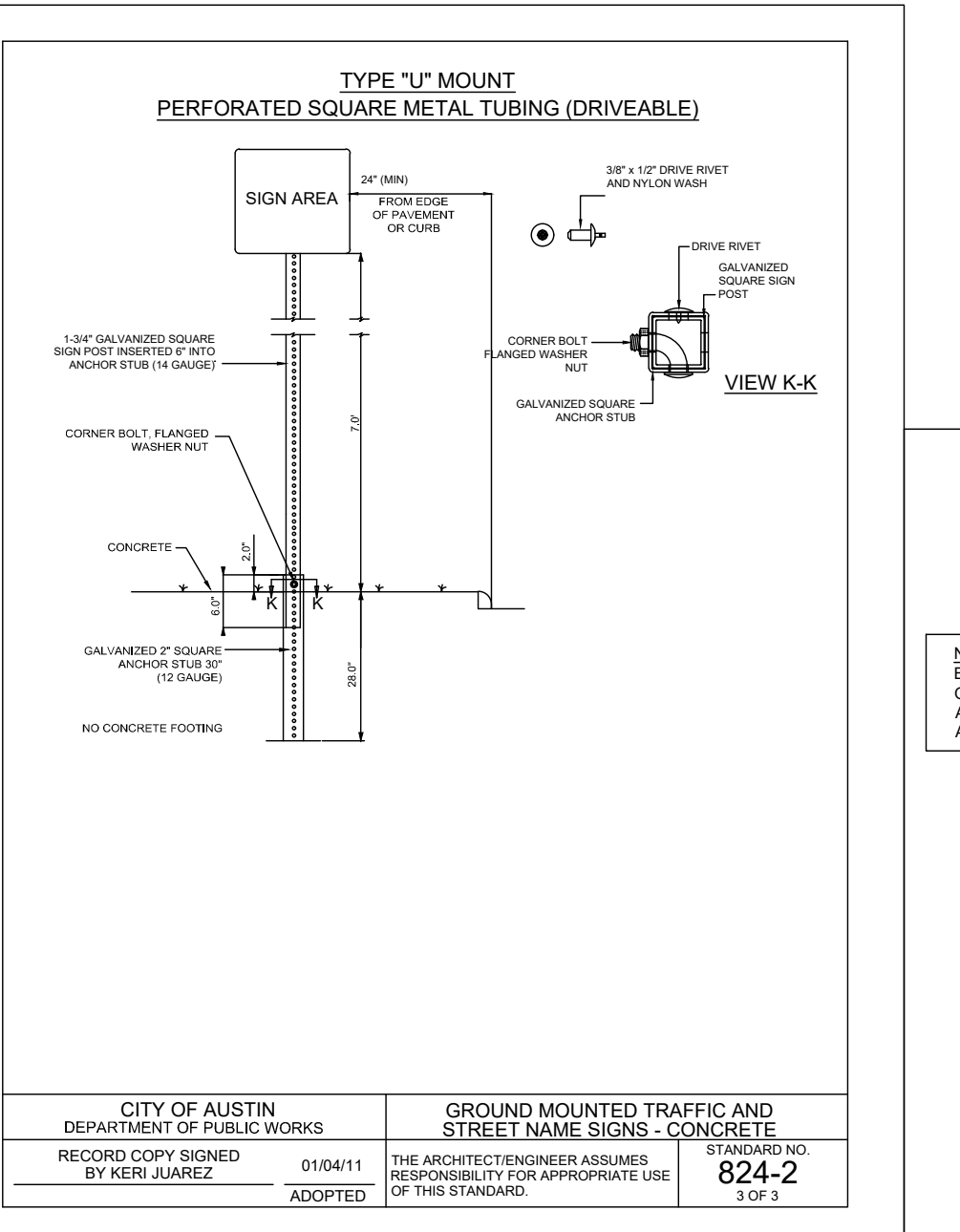
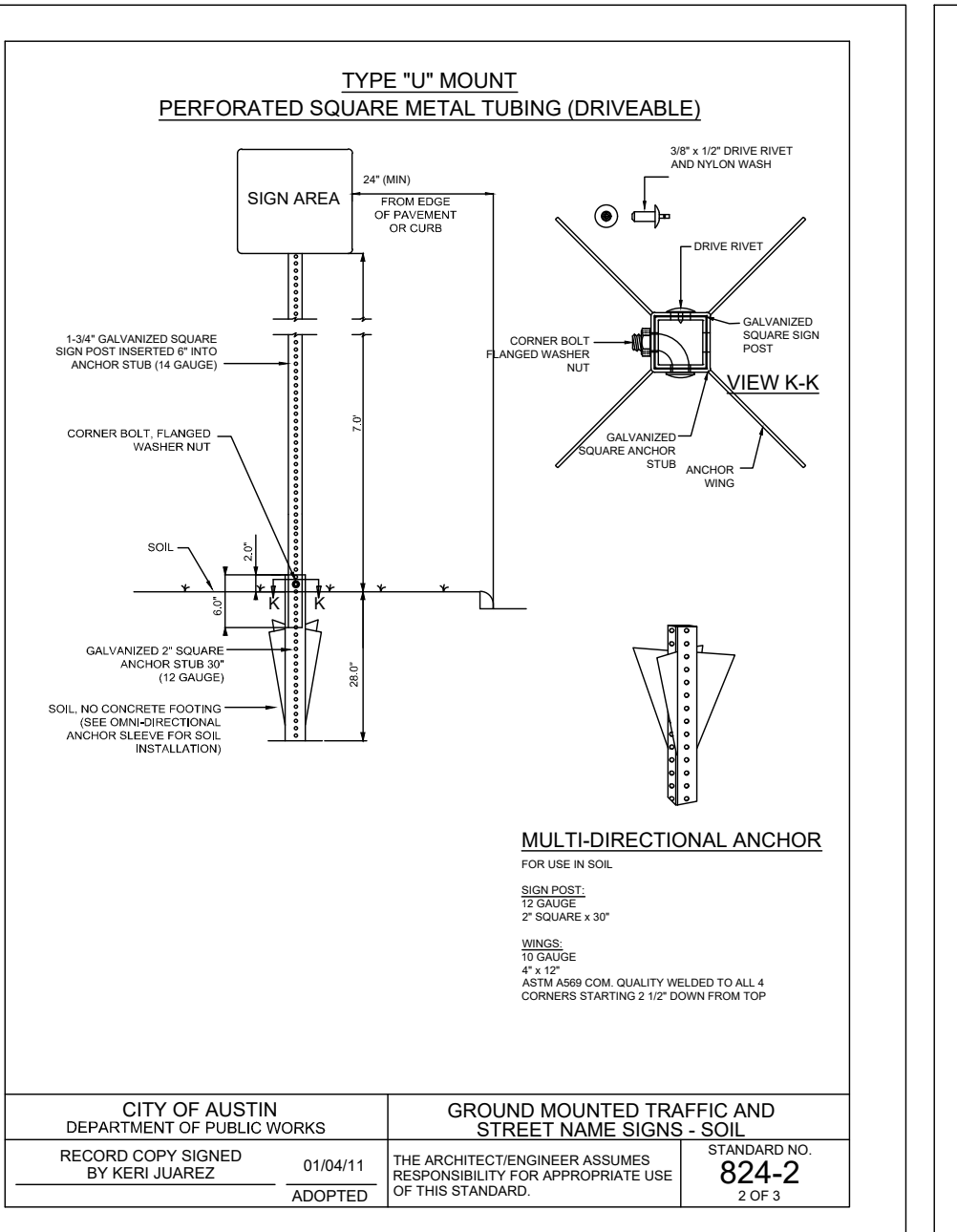
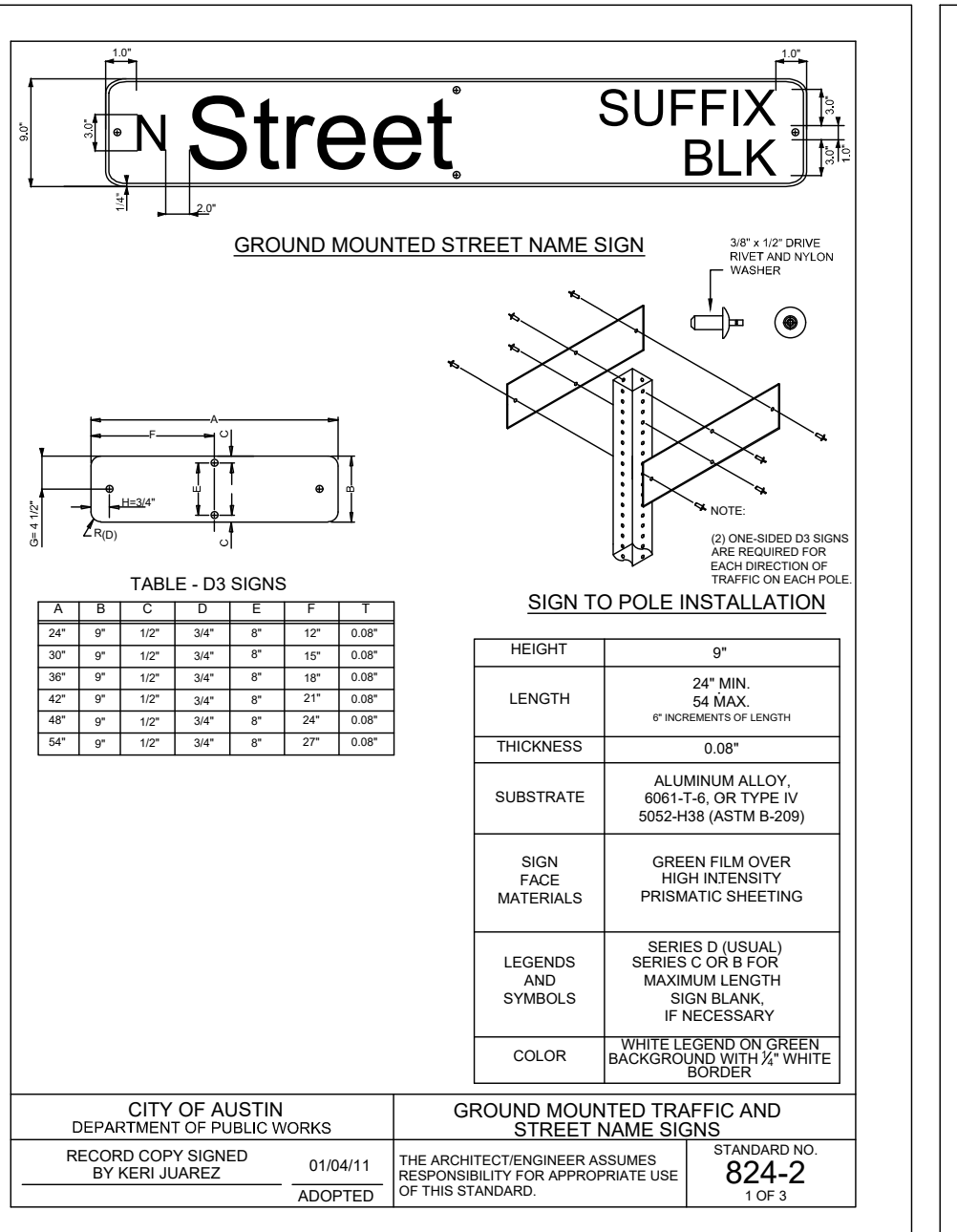
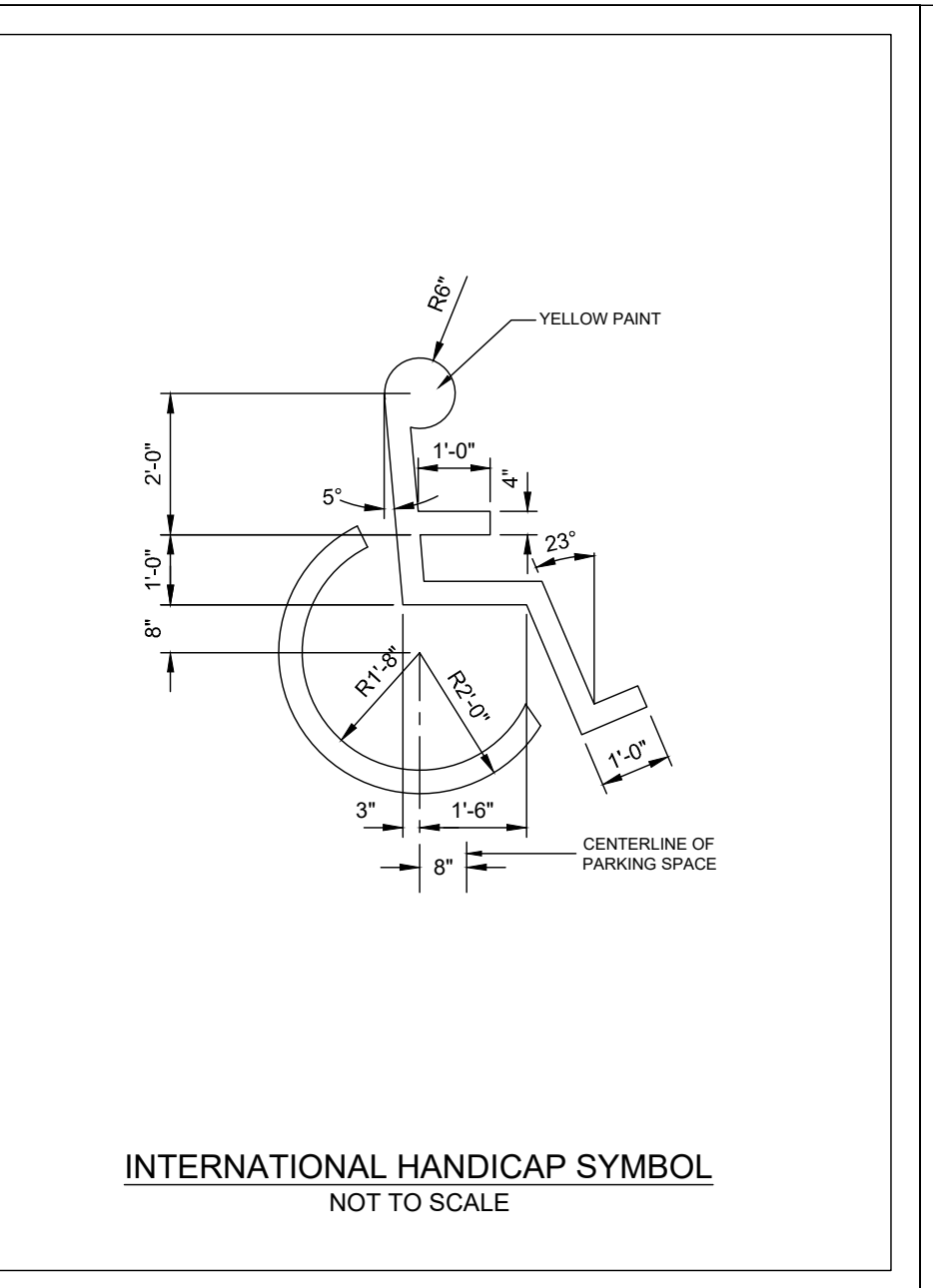
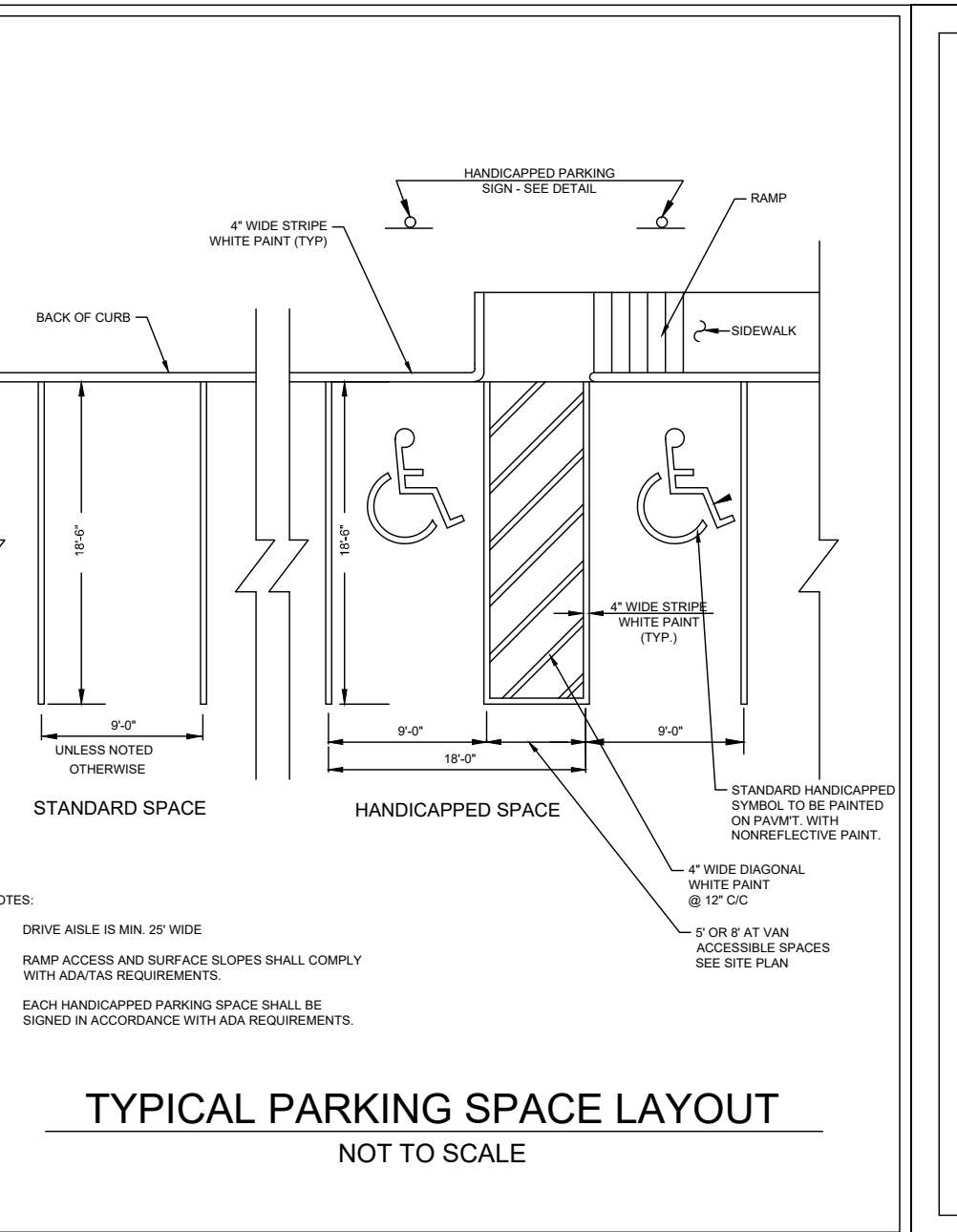
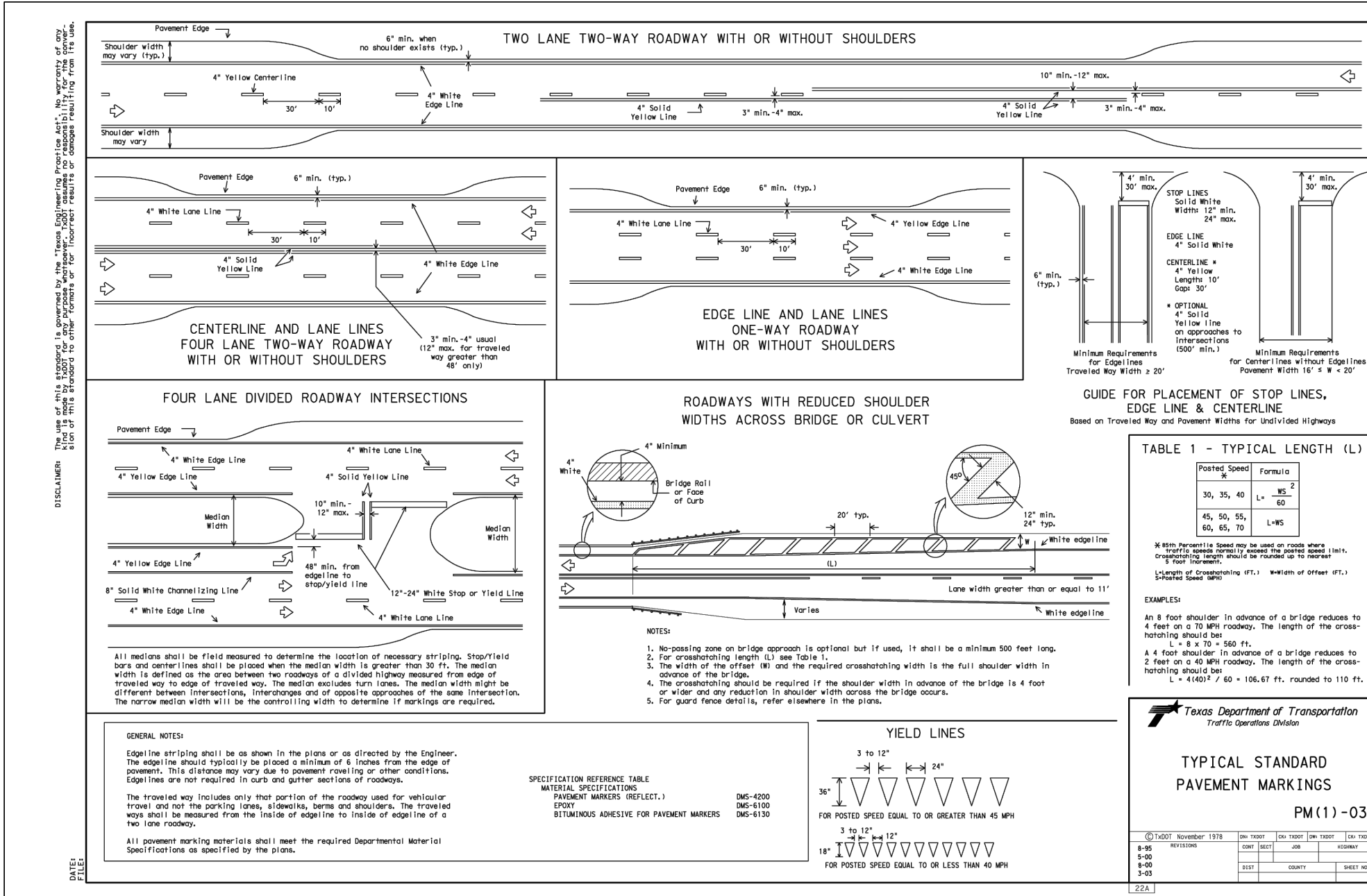
Note: In Type A and F grates the slots are perpendicular to the trench axis. In Type C and G grates the slots are parallel with the trench axis.

Read Carefully Before Ordering: The various standard trench drains are available with a number of alternatives. It is important to measure all of the variables 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 plates, when required
- Type of grate (A, C, D, E, F, P, Q)
- Length of trench section*
- 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. 800-866-0015

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



REVISION

DATE

NO.

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

STANDARD DETAILS

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

DESIGN BY: SGC
CHECKED BY: SGC
APPROVED BY: JBM
DATE: 9/29/2023

SHEET 59 OF 62

ENGINEER'S CERTIFICATION:

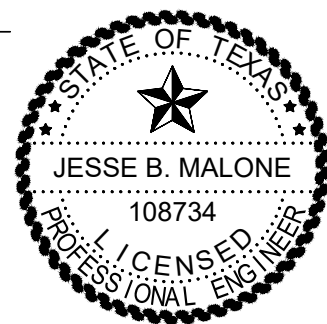
I, THE UNDERSIGNED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, THAT ALL REQUIRED DOCUMENTS ENCLOSED ARE ACCURATE AND COMPLETE AND THAT THE PROVISIONS CONTAINED ON THIS PLAN COMPLY WITH THE DEVELOPMENT ORDINANCES AND DRAINAGE POLICIES ADOPTED BY THE CITY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

SUBMITTED FOR APPROVAL BY MALONE/WHEELER, INC.

Handwritten signature of Jesse B. Malone

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

11/21/2023 DATE



REVIEWED BY:

CODE OFFICIAL: PLANNING, DEVELOPMENT & CODE ENFORCEMENT DEPARTMENT DATE

CITY OF LAKEWAY ENGINEER DATE

CITY OF LAKEWAY SITE DEVELOPMENT PERMIT NUMBER

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 DATE

Table with 4 columns: SLOPE CATEGORY, GROSS SITE AREA ACRES, ALLOWABLE PERCENTAGE, NET SITE AREA ACRES. Totals: 155.74 Gross Area, 142.13 Net Area.

Table with 3 columns: ITEM, IMPERVIOUS COVER ACRES, SQUARE FEET (SQ. FT.). Totals: 58.86 ACRES, 2,563,815 SQ. FT.

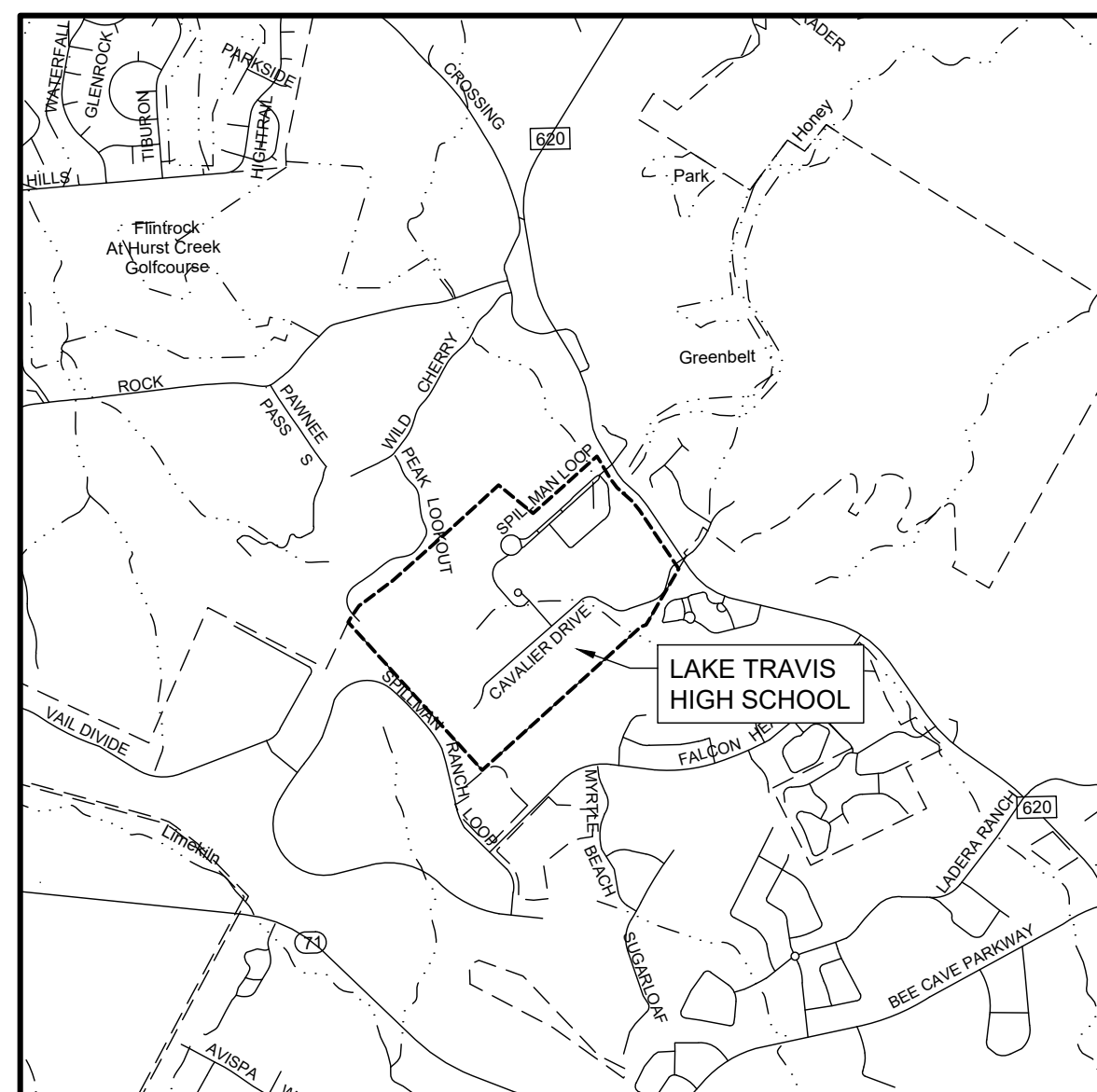
Table with 4 columns: ALLOWABLE IMPERVIOUS COVER, EXISTING IMPERVIOUS COVER, PROPOSED IMPERVIOUS COVER, TOTAL. Totals: 50.00%, 40.99%, 41.42%.

Table with 10 columns: 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.

CONSTRUCTION PLANS FOR LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2 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... 6. TOTAL ACRES IN PROJECT = 155.738.



LOCATION MAP

SCALE: 1" = 2000'

DATE OF SUBMITTAL: NOVEMBER 2, 2023

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

SURVEYOR: 4WARD LAND SURVEYING, LLC P.O. BOX 90876 AUSTIN, TX 78709 (512) 537-2384

ELECTRICAL-MEP ENGINEERING 1120 S CAPITAL OF TEXAS HWY. AUSTIN, TX 78746 (512) 306-9650

STRUCTURAL: PICKETT KELM & ASSOCIATES 4100 DUVAL RD. AUSTIN, TX 78759 (512) 345-5538

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

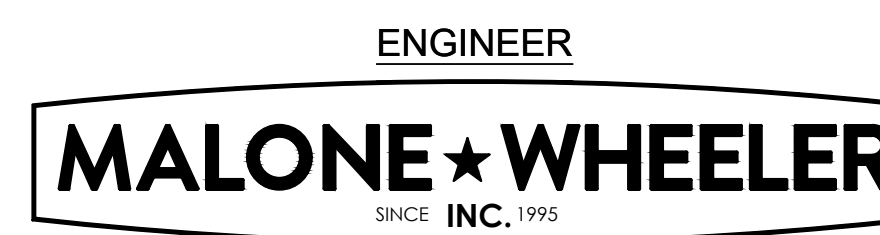
ARCHITECT: PFLUGER 209 EAST RIVERSIDE DRIVE AUSTIN, TX 78704 (512) 476-4040

GENERAL PLAN NOTES:

- 1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM... 14. ALL STRUCTURAL FIELD CHANGES REQUIRE A PLAN REVISION APPROVAL IN WRITING BEFORE COMMENCEMENT OF THE WORK.

I, _____ HEREBY ACKNOWLEDGE THAT I HAVE READ AND UNDERSTOOD PLAN NOTES ON ALL ATTACHED DRAWINGS REGARDING MY RESPONSIBILITIES AS OWNER. DATE: _____ OWNER

I, _____ AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING AND HEREBY CERTIFY THAT THE NOTES, INFORMATION, AND PROVISIONS CONTAINED ON THIS PLAN COMPLY WITH THE SURVEY REQUIREMENTS OF THE DEVELOPMENT ORDINANCES ADOPTED BY THE CITY OF LAKEWAY... REGISTERED PROFESSIONAL LAND SURVEYOR REGISTRATION NO. 6057 DELTA SURVEY GROUP, INC. 8213 BRODIE LANE, SUITE 102 AUSTIN, TX 78745



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

SHEET INDEX

- 01 COVER 02 GENERAL NOTES 03 GENERAL NOTES 04 EXISTING CONDITIONS 05 DEMOLITION PLAN OVERALL 06 PARKING LOT DEMOLITION 07 PARKING LOT DEMOLITION 08 CAVALIER DRIVE DEMOLITION 09 CAVALIER DRIVE DEMOLITION 10 CAVALIER DRIVE DEMOLITION 11 BUS LOOP DEMOLITION 12 EXISTING TREE LIST 13 EROSION & SEDIMENTATION CONTROL PLAN OVERALL 14 PARKING LOT EROSION & SEDIMENTATION CONTROL PLAN 15 PARKING LOT EROSION & SEDIMENTATION CONTROL PLAN 16 CAVALIER DRIVE EROSION & SEDIMENTATION CONTROL PLAN 17 CAVALIER DRIVE EROSION & SEDIMENTATION CONTROL PLAN 18 CAVALIER DRIVE EROSION & SEDIMENTATION CONTROL PLAN 19 BUS LOOP EROSION & SEDIMENTATION CONTROL PLAN 20 SITE PLAN OVERALL 21 ENLARGED PARKING LOT 22 ENLARGED PARKING LOT 23 ENLARGED CAVALIER DRIVE 24 ENLARGED CAVALIER DRIVE 25 ENLARGED CAVALIER DRIVE 26 ENLARGED BUS LOOP 27 GRADING PLAN OVERALL 28 PARKING LOT GRADING 29 PARKING LOT GRADING 30 CAVALIER DRIVE GRADING 31 CAVALIER DRIVE GRADING 32 CAVALIER DRIVE GRADING 33 BUS LOOP GRADING 34 PRE-DEVELOPED DRAINAGE AREAS 35 EXISTING DRAINAGE AREAS 36 PROPOSED DRAINAGE AREAS 37 PROPOSED WATER QUALITY DRAINAGE AREAS 38 SITE DRAINAGE AREAS 39 DETENTION POND 1 & VFS MODIFICATIONS 40 DETENTION POND 2 MODIFICATIONS PLAN 41 DETENTION POND 2 WEIR MODIFICATIONS 42 DETENTION POND 2 SECTIONS & DETAILS 43 WATER QUALITY POND 1 PLAN 44 WATER QUALITY POND 1 SECTIONS & DETAILS 45 WATER QUALITY POND 3 (1 OF 2) 46 WATER QUALITY POND 3 (2 OF 2) 47 TCEQ WATER QUALITY CALCULATIONS 48 STORM PLAN OVERALL 49 ENLARGED STORM PLAN 50 OVERALL MILL AND OVERLAY PLAN 51 PARKING LOT MILL AND OVERLAY PLAN 52 PARKING LOT MILL AND OVERLAY PLAN 53 CAVALIER DRIVE MILL AND OVERLAY PLAN 54 CAVALIER DRIVE MILL AND OVERLAY PLAN 55 CAVALIER DRIVE MILL AND OVERLAY PLAN 56 BUS LOOP MILL AND OVERLAY PLAN 57 OVERALL RESTORATION PLAN 58 PARKING LOT RESTORATION 59 PARKING LOT RESTORATION 60 CAVALIER DRIVE RESTORATION 61 CAVALIER DRIVE RESTORATION 62 CAVALIER DRIVE RESTORATION 63 BUS LOOP RESTORATION 64 WATER PLAN OVERALL 65 ENLARGED WATER PLAN 66 STANDARD DETAILS 67 STANDARD DETAILS 68 STANDARD DETAILS 69 STANDARD DETAILS

CONSTRUCTION PLANS

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2

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...

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...

- 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...

- 1. THE SWP3 SITE NOTEBOOK FOR THE PROJECT, INCLUDING REVIEW OF COMPLETENESS, SIGNATURES, CONSISTENCY WITH THE APPROVED CONSTRUCTION AND ESC PLANS...
2. THE SEQUENCE OF CONSTRUCTION AND ESC PLAN IMPLEMENTATION; SEDIMENT BASIN CONSTRUCTION SCOPE PRIOR TO FULL SITE GRADING...
3. SEDIMENT CONTROLS; PHASING OF PERIMETER AND INTERIOR SEDIMENT CONTROLS DURING CONSTRUCTION...
4. ADEQUACY OF THE FIRST ESC PHASE AND FUTURE ESC PHASES TO ADDRESS SPECIFIC SITE CONDITIONS...
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...
9. INSPECTION AND PREPARATION OF THE WEEKLY SWP3 INSPECTION REPORTS BY THE PRIMARY OPERATOR'S QUALIFIED INSPECTOR...
10. OBSERVATION AND DOCUMENTATION OF EXISTING SITE CONDITIONS ADJACENT TO THE LIMITS OF CONSTRUCTION BEFORE CONSTRUCTION...
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...
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:

Table with 3 columns: PAVEMENT TYPE, TRAFFIC DESIGN INDEX, DESCRIPTION. Includes rows for Parking Areas (Passenger Vehicles Only) and Primary Driveways.

FLEXIBLE PAVEMENT SYSTEM

Table with 3 columns: COMPONENT, MATERIAL THICKNESS (INCHES) DI-1, DI-3. Includes rows for Asphaltic Concrete, Crushed Limestone Base, and Moisture Conditioned Subgrade.

Table with 3 columns: COMPONENT, MATERIAL THICKNESS (INCHES) DI-1, DI-3. Includes rows for Reinforced Concrete (PCC) and Moisture Conditioned Subgrade.

MOISTURE CONDITIONED SUBGRADE
AFTER PROOF-ROLLING, AND JUST PRIOR TO PLACEMENT OF FILL, THE EXPOSED SOIL SUBGRADE IN ALL CONSTRUCTION AREAS (EXCEPT LANDSCAPING) SHOULD BE EVALUATED FOR MOISTURE AND DENSITY THROUGH FIELD DENSITY TESTING...

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

Table with 4 columns: DATES, CLIMATE, SPECIES (lb/acre), and values. Includes rows for Permanent Cool/Warm Season and Permanent Warm Season.

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.

- MULCH FROM SEPTEMBER 15 TO MARCH 1, OATS (21 lb/acre) AND WINTER WHEAT (30 lb/acre) MAY BE SUBSTITUTED FOR RYE.
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...
D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1/2 INCHES HIGH WITH 70% COVERAGE...

WCID-17 PRE-CONSTRUCTION CONFERENCE CHECKLIST:

PRE-CONSTRUCTION CONFERENCE CHECKLIST

Table with 2 columns: WCID Inspectors, Phone Numbers. Lists contact info for Juan Sanchez, Dany Ramirez, Jesus Herrera, and Storm Inspector.

- 1. OUR DISTRICT CONSTRUCTION STANDARDS CAN BE FOUND ONLINE AT WWW.WCID17.ORG. MAKE SURE YOU HAVE THE MOST CURRENT REVISION OF THESE STANDARDS...
2. CHANGE ORDERS: SUBMIT ONE COPY TO THE DISTRICT OFFICE AND ONE TO THE INSPECTOR...
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...
4. NO UTILITY LINES WILL BE COVERED UNTIL THEY HAVE BEEN INSPECTED AND PASSED BY THE INSPECTOR...
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...
7. CONNECTIONS WILL ONLY BE MADE TO WCID-17 EXISTING SYSTEMS WITH AN INSPECTOR PRESENT...
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...
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 NOTES

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

WASTEWATER NOTES

- A. LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE APPROXIMATE LOCATIONS ONLY...
B. ALL EASEMENTS ARE REQUIRED TO BE STAKED-OUT.
C. THE BACK OF THE CURB AND THE FINISHED GRADE ARE REQUIRED TO BE STAKED-OUT.
D. ALL DRY UTILITIES (IE. ELECTRICAL, TELECOMMUNICATIONS, ETC.) MUST MAINTAIN A 5-FOOT HORIZONTAL SEPARATION (STARTING AT THE PIPE'S WALL) FROM WCID #17 APPURTENANCES.
E. WHEN WATER/WASTEWATER UTILITIES CROSS ANY DRY UTILITY, A 2-FOOT VERTICAL SEPARATION (STARTING AT THE PIPE'S WALL) MUST BE MAINTAINED FROM WCID #17 APPURTENANCES.
F. ALL GRAVITY WASTEWATER UTILITIES AND SERVICES MUST BE GREEN COLOR PIPE ONLY AND SDR-26.
G. WASTEWATER SERVICE MUST HAVE A 7-FOOT SEPARATION FROM ANY STORM SEWER INLETS.
H. BOLT DOWN RING AND COVERS ON ALL MANHOLES THAT ARE NOT IN THE PAVEMENT ARE REQUIRED.
I. MANHOLES NOT IN THE ROAD-WAY MUST BE 1 FOOT ABOVE FINISHED GRADE.
J. NO WASTEWATER UTILITIES THROUGH ANY ISLANDS.

IRRIGATION NOTES:

- WCID #17 WILL NOT SIGN OFF ON IRRIGATION PLANS AS PART OF THE SITE PLAN. IRRIGATION PLANS MUST BE SUBMITTED SEPARATELY TO CSR PERMITS COORDINATOR, NANCY CARDOSO, AT NCARDOSO@WCID17.ORG, 512-266-1111 EXT. 110. SUBMISSIONS MUST INCLUDE:
1) IRRIGATION PERMIT APPLICATION, A COPY OF THE FORM CAN BE OBTAINED THROUGH THE DISTRICT'S WEBSITE, HTTPS://WWW.WCID17.ORG/FORM-BUILDERS/IRRIUMBERS
2) LIST OF HYDRALICS
3) LEGEND
4) ANNUAL WATER BUDGET. (ADD THIS NOTE TO THE IRRIGATION SHEETS IN SITE PLANS IN BOLD RED LETTERS)

LANDSCAPE NOTE:

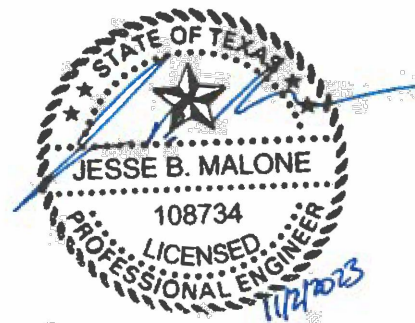
TREES MUST BE 7.5 FEET AWAY FROM ALL WCID #17 APPURTENANCES. (IE. WATER, WASTEWATER, METERS, ETC.)

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

GENERAL NOTES



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Firm Registration No. F-786

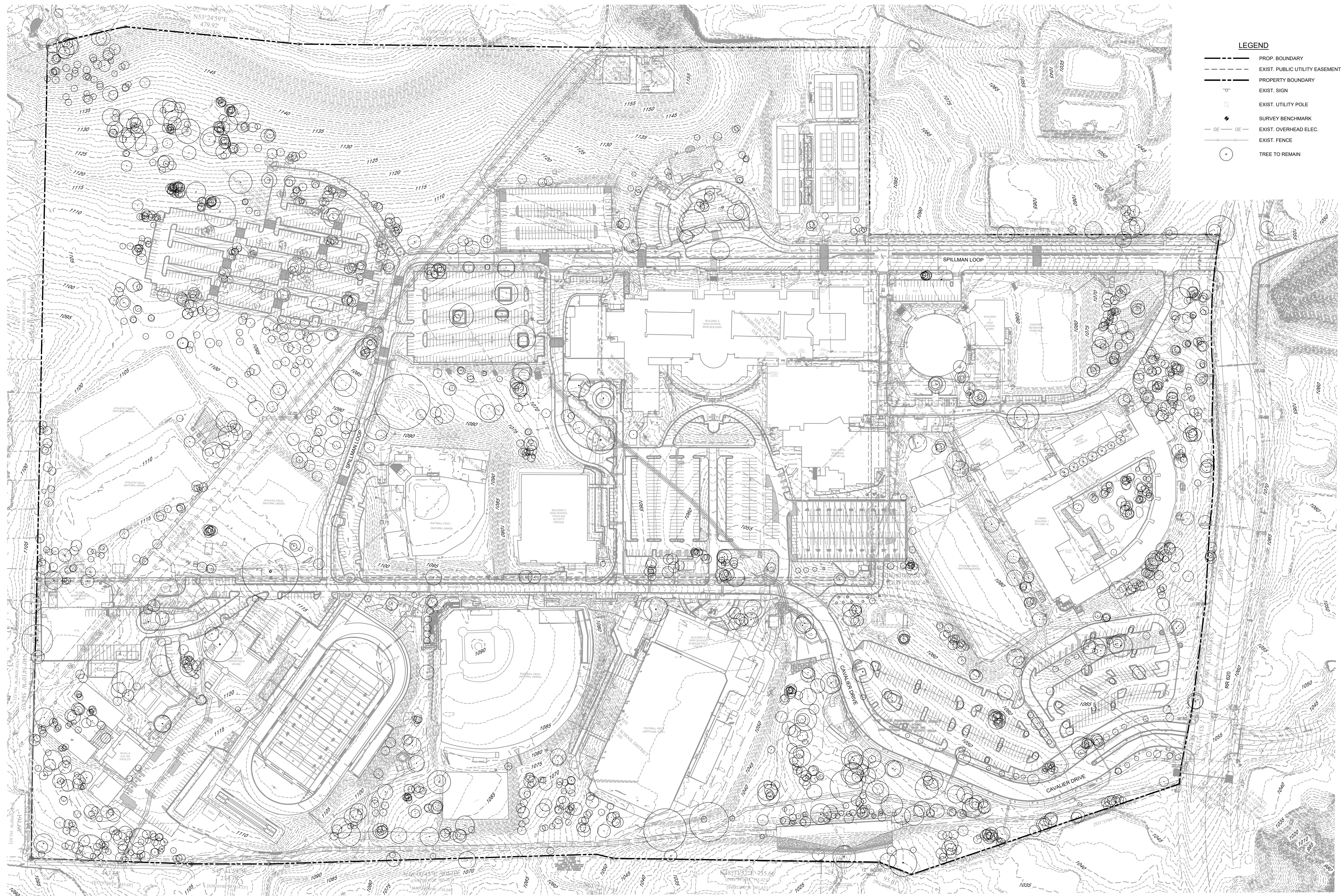


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APPROVED BY : JBM
DATE : 11/2/2023

SHEET 03 OF 69

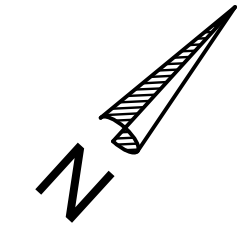
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LEGEND

	PROP. BOUNDARY
	EXIST. PUBLIC UTILITY EASEMENT
	PROPERTY BOUNDARY
	EXIST. SIGN
	EXIST. UTILITY POLE
	SURVEY BENCHMARK
	EXIST. OVERHEAD ELEC.
	EXIST. FENCE
	TREE TO REMAIN



SCALE: 1" = 120'

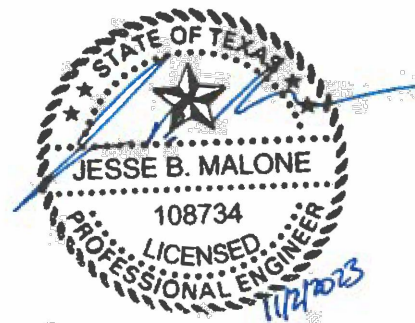
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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

EXISTING CONDITIONS

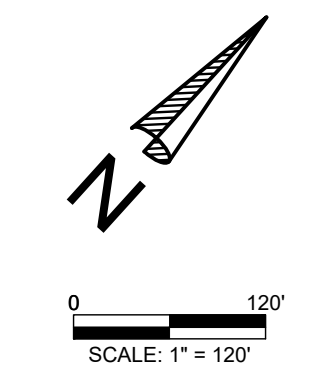
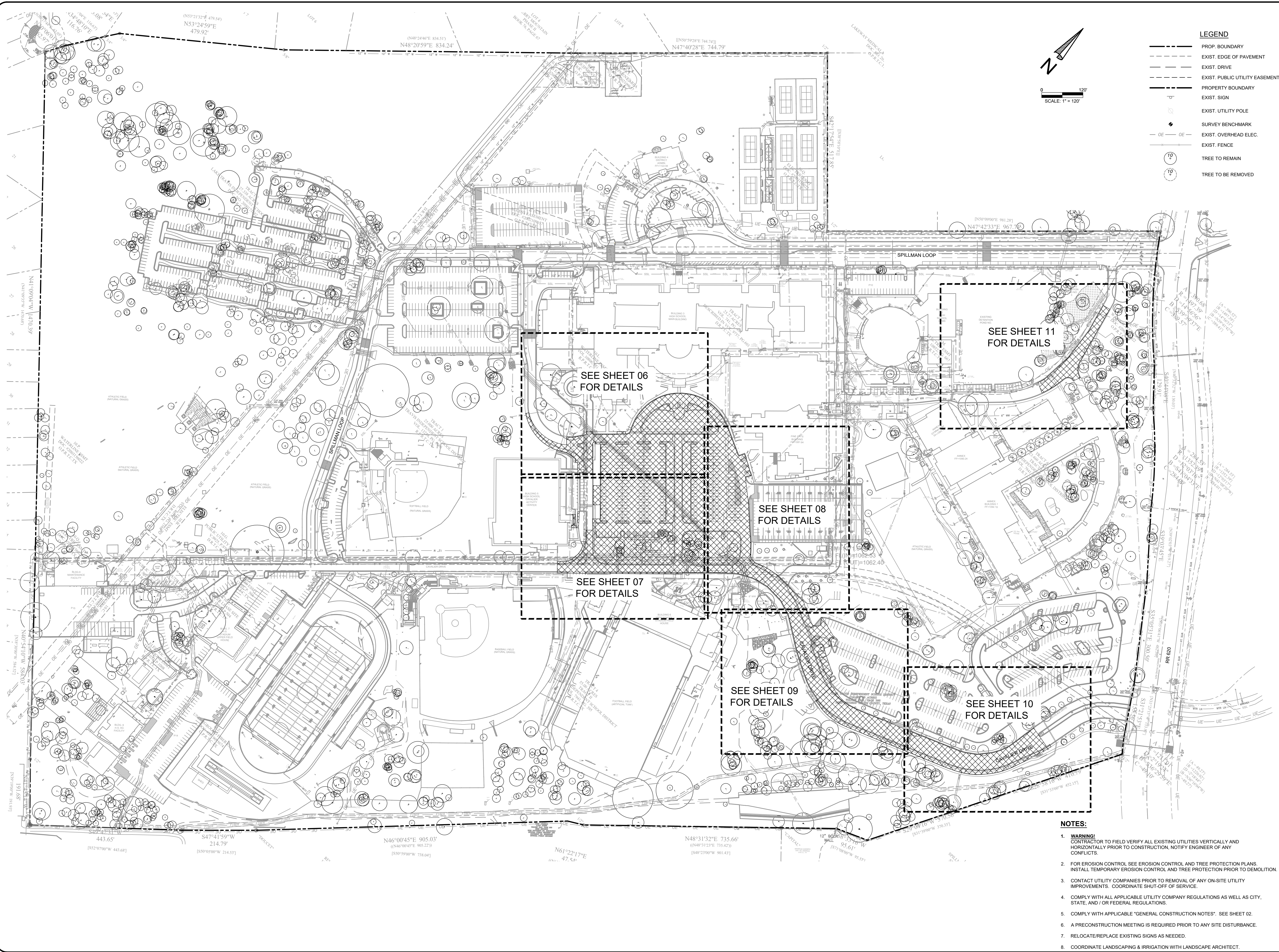
MALONE ★ WHEELER
INC. SINCE 1975

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 Austin, Texas 78735
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 DATE: 11/2/2023

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LEGEND

	PROP. BOUNDARY
	EXIST. EDGE OF PAVEMENT
	EXIST. DRIVE
	EXIST. PUBLIC UTILITY EASEMENT
	PROPERTY BOUNDARY
	EXIST. SIGN
	EXIST. UTILITY POLE
	SURVEY BENCHMARK
	EXIST. OVERHEAD ELEC.
	EXIST. FENCE
	TREE TO REMAIN
	TREE TO BE REMOVED

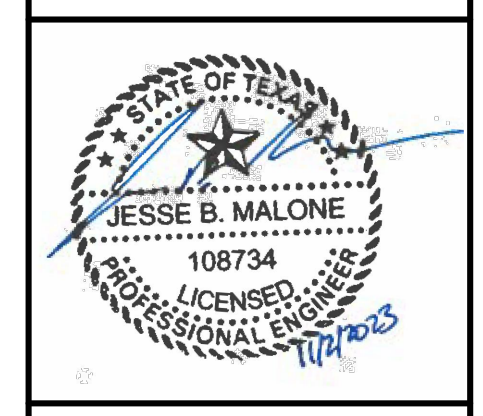
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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

DEMOLITION PLAN OVERALL

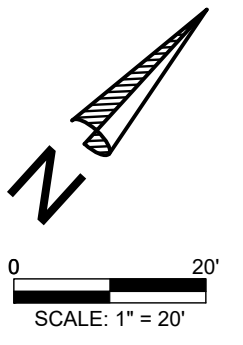
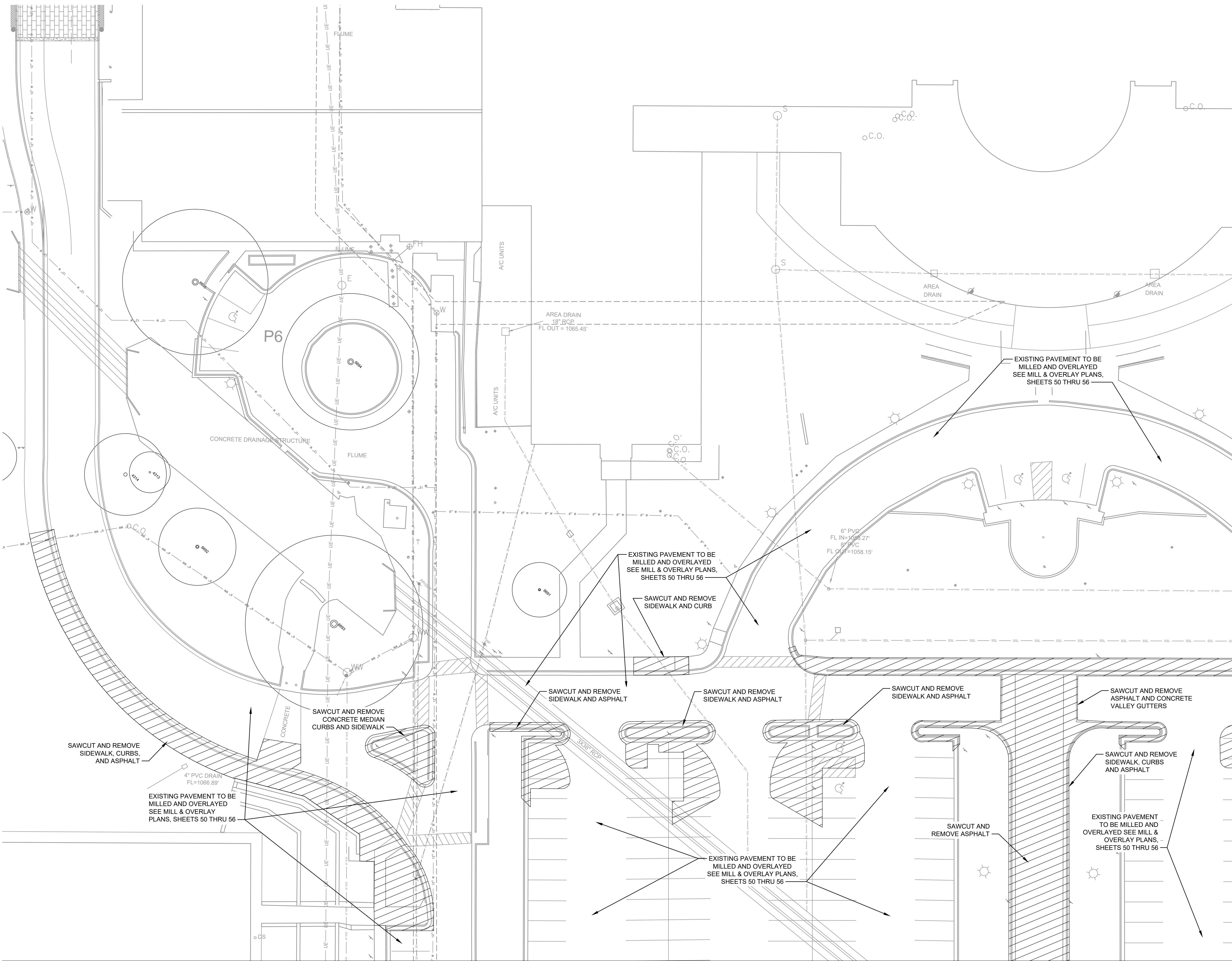
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- NOTES:**
- WARNING! CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
 - FOR EROSION CONTROL SEE EROSION CONTROL AND TREE PROTECTION PLANS. INSTALL TEMPORARY EROSION CONTROL AND TREE PROTECTION PRIOR TO DEMOLITION.
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 - COMPLY WITH ALL APPLICABLE UTILITY COMPANY REGULATIONS AS WELL AS CITY, STATE, AND / OR FEDERAL REGULATIONS.
 - COMPLY WITH APPLICABLE "GENERAL CONSTRUCTION NOTES". SEE SHEET 02.
 - A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
 - RELOCATE/REPLACE EXISTING SIGNS AS NEEDED.
 - COORDINATE LANDSCAPING & IRRIGATION WITH LANDSCAPE ARCHITECT.

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APPROVED BY :	JBM
DATE :	11/22/2023
SHEET 05	
OF 69	



LEGEND

- PROP. BOUNDARY
- - - - EXIST. EDGE OF PAVEMENT
- - - - EXIST. DRIVE
- - - - EXIST. PUBLIC UTILITY EASEMENT
- PROPERTY BOUNDARY
- EXIST. SIGN
- ⊙ EXIST. UTILITY POLE
- ◆ SURVEY BENCHMARK
- EXIST. OVERHEAD ELEC.
- - - - EXIST. FENCE
- (10) TREE TO REMAIN
- (10) TREE TO BE REMOVED

- NOTES:**
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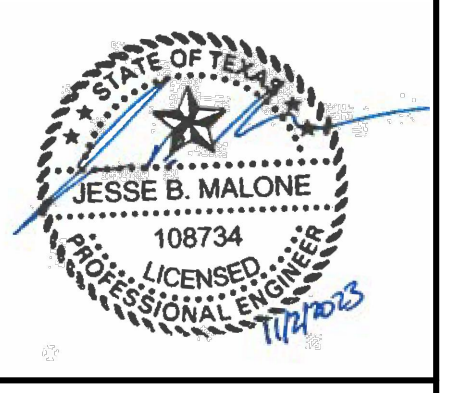
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
PARKING LOT DEMOLITION

MALONE ★ WHEELER
INC. 1975

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

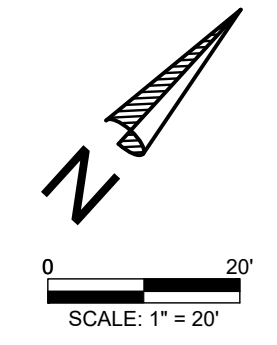
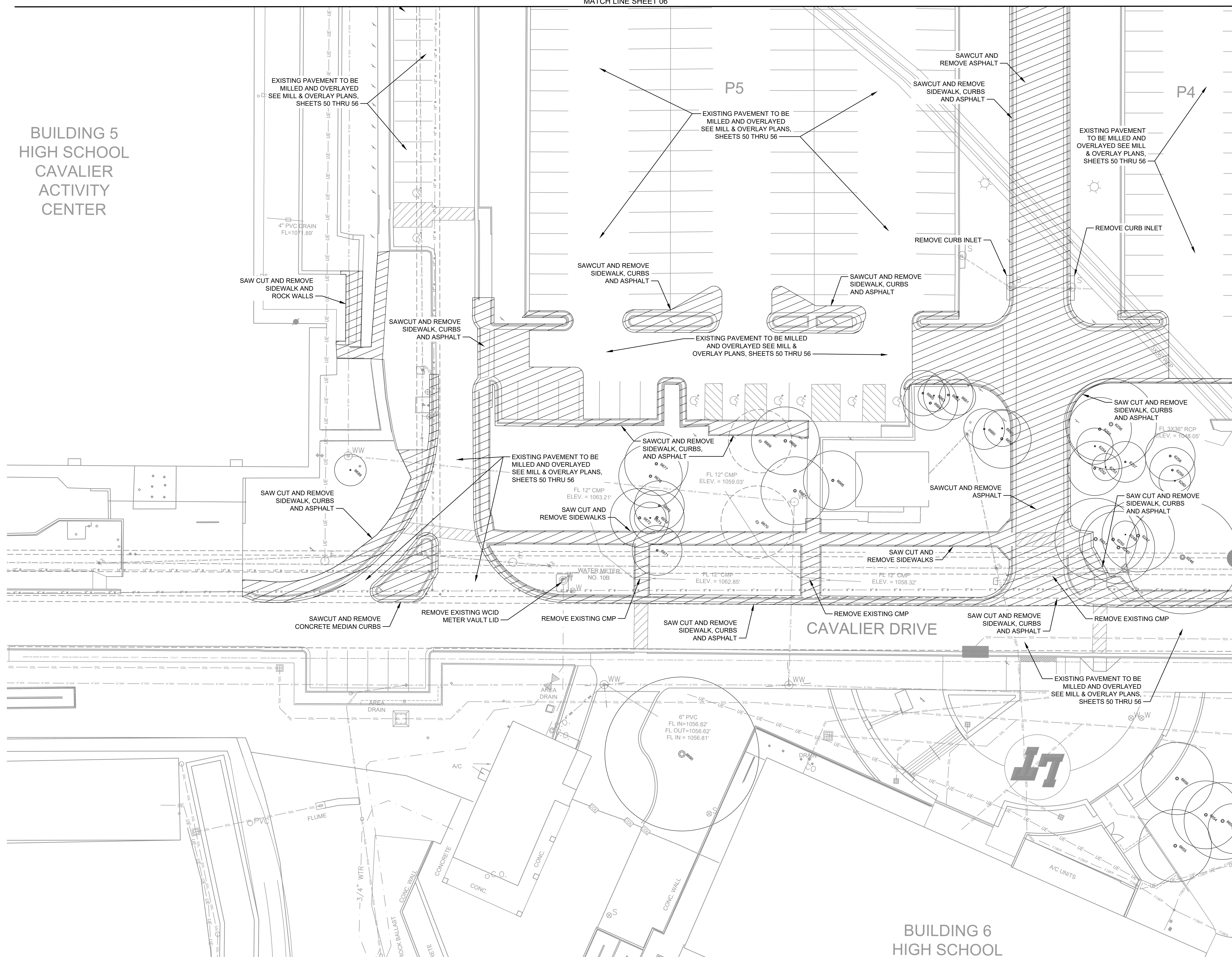
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 Phone: (512) 899-0601 Fax: (512) 899-0655
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 APPROVED BY: JBM
 DATE: 11/2/2023

SHEET 06
OF 69

BUILDING 5 HIGH SCHOOL CAVALIER ACTIVITY CENTER



LEGEND

- PROP. BOUNDARY
- - - - EXIST. EDGE OF PAVEMENT
- - - - EXIST. DRIVE
- - - - EXIST. PUBLIC UTILITY EASEMENT
- PROPERTY BOUNDARY
- - - - EXIST. SIGN
- EXIST. UTILITY POLE
- ◆ SURVEY BENCHMARK
- - - - EXIST. OVERHEAD ELEC.
- - - - EXIST. FENCE
- (10) TREE TO REMAIN
- (10) TREE TO BE REMOVED

NOTES:

1. **WARNING!** CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
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7. RELOCATE/REPLACE EXISTING SIGNS AS NEEDED.
8. COORDINATE LANDSCAPING & IRRIGATION WITH LANDSCAPE ARCHITECT.

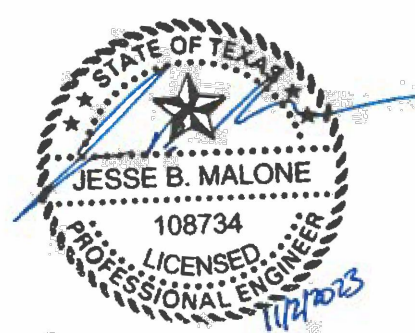
MATCH LINE SHEET 08

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
 3324 RANCH ROAD 620 SOUTH

PARKING LOT DEMOLITION

MALONE ★ WHEELER
INC. SINCE 1975

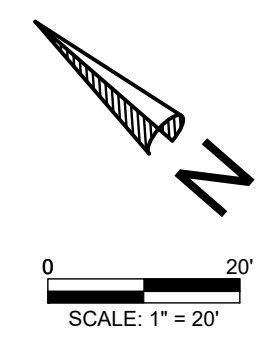
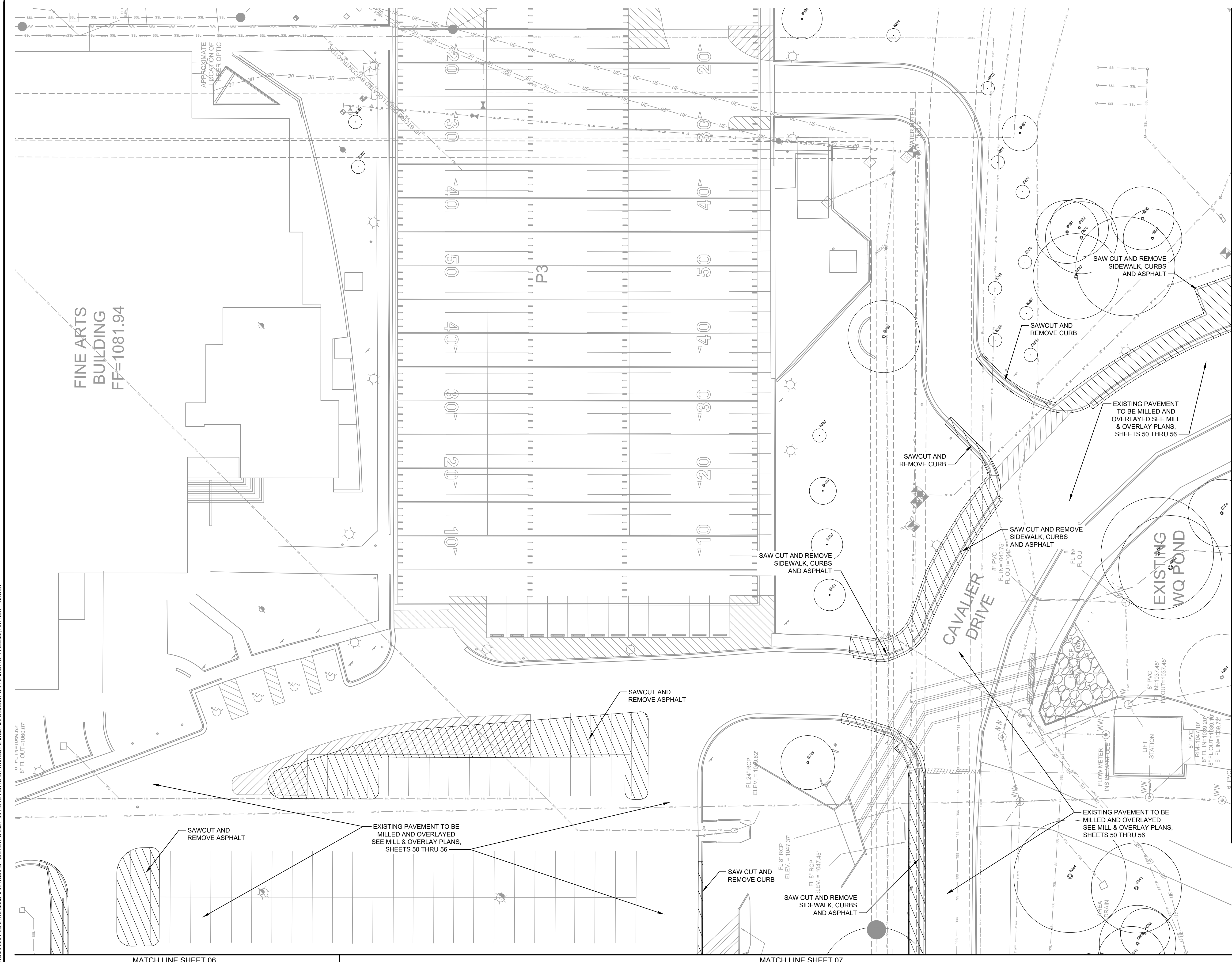
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SHEET 07
 OF 69

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LEGEND

- PROP. BOUNDARY
- - - - EXIST. EDGE OF PAVEMENT
- - - - EXIST. DRIVE
- - - - EXIST. PUBLIC UTILITY EASEMENT
- PROPERTY BOUNDARY
- - - - EXIST. SIGN
- EXIST. UTILITY POLE
- ◆ SURVEY BENCHMARK
- - - - EXIST. OVERHEAD ELEC.
- - - - EXIST. FENCE
- TREE TO REMAIN
- TREE TO BE REMOVED

NOTES:

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7. RELOCATE/REPLACE EXISTING SIGNS AS NEEDED.
8. COORDINATE LANDSCAPING & IRRIGATION WITH LANDSCAPE ARCHITECT.

MATCH LINE SHEET 08

MATCH LINE SHEET 06

MATCH LINE SHEET 07

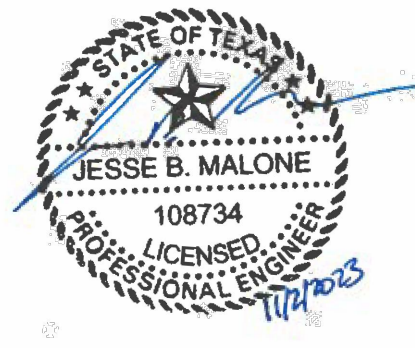
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE DEMOLITION

MALONE ★ WHEELER
INC. SINCE 1975

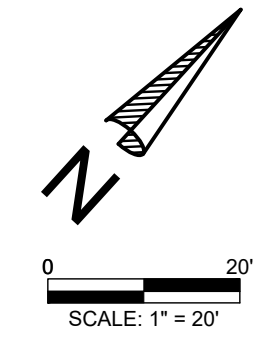
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



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SHEET 08
OF 69

6" PVC
FL IN=104'.31'
FL OUT=1041.24'



- LEGEND**
- PROP. BOUNDARY
 - - - EXIST. EDGE OF PAVEMENT
 - - - EXIST. DRIVE
 - - - EXIST. PUBLIC UTILITY EASEMENT
 - - - PROPERTY BOUNDARY
 - - - EXIST. SIGN
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LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT
(CALLED 55 ACRES)
VOLUME 7941, PAGE 395
DEED RECORDS TRAVIS COUNTY, TEXAS

CAVALIER DRIVE

CRITICAL WATER QUALITY ZONE

EXISTING PAVEMENT TO BE MILLED AND OVERLAYED
SEE MILL & OVERLAY PLANS,
SHEETS 50 THRU 56

SAWCUT AND REMOVE ASPHALT

SAW CUT AND REMOVE SIDEWALK, CURBS AND ASPHALT

SAW CUT AND REMOVE SIDEWALK, CURBS AND ASPHALT

SAW CUT AND REMOVE SIDEWALK, CURBS AND ASPHALT

SAW CUT AND REMOVE SIDEWALK, CURBS AND ASPHALT

EXISTING PAVEMENT TO BE MILLED AND OVERLAYED
SEE MILL & OVERLAY PLANS,
SHEETS 50 THRU 56

SAW CUT AND REMOVE CURBS AND ASPHALT

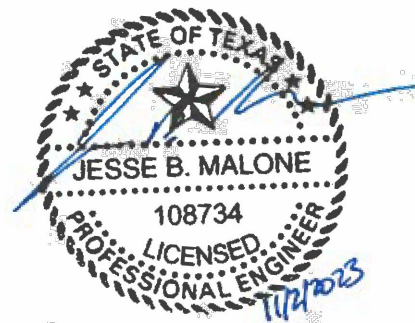
MATCH LINE SHEET 10

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE DEMOLITION

MALONE WHEELER
INC. 1976

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

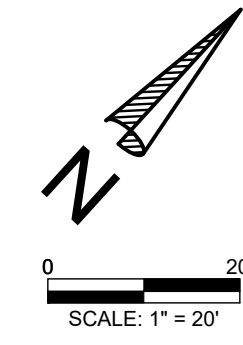
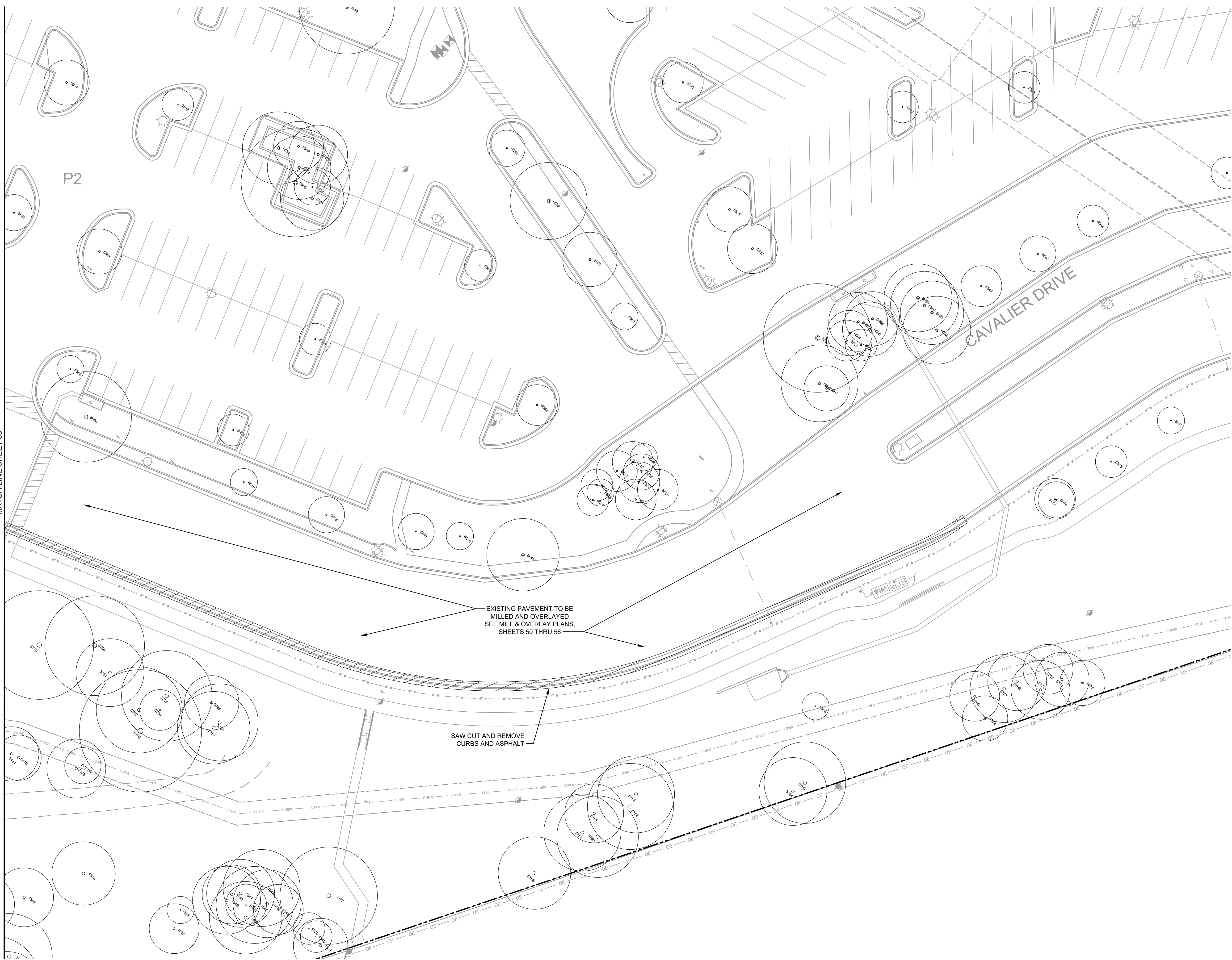


DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

SHEET 09
OF 69

F:\UTISD OVERALL\PROJECTS\2024-AUS-LTHS 620\DRAWINGS\PLANS\SETLTHS 2024 IMPROVEMENTS\DRAWINGS\DEMOLITION PLAN.DWG, 11/22/2023, ANTHONY VINCENT

MATCH LINE SHEET 09



LEGEND

- PROP. BOUNDARY
- EXIST. EDGE OF PAVEMENT
- EXIST. DRIVE
- EXIST. PUBLIC UTILITY EASEMENT
- PROPERTY BOUNDARY
- EXIST. SIGN
- EXIST. UTILITY POLE
- ◆ SURVEY BENCHMARK
- OE --- EXIST. OVERHEAD ELEC.
- EXIST. FENCE
- 10 TREE TO REMAIN
- 10 TREE TO BE REMOVED

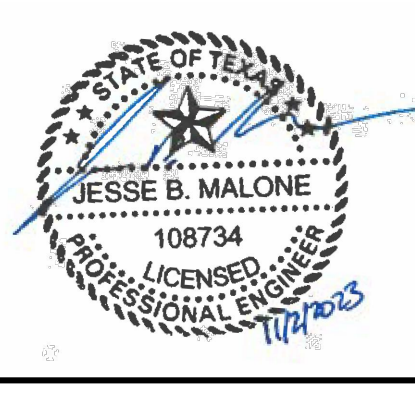
NOTES:

1. **WARNING!** CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.
2. FOR EROSION CONTROL SEE EROSION CONTROL AND TREE PROTECTION PLANS. INSTALL TEMPORARY EROSION CONTROL AND TREE PROTECTION PRIOR TO DEMOLITION.
3. CONTACT UTILITY COMPANIES PRIOR TO REMOVAL OF ANY ON-SITE UTILITY IMPROVEMENTS. COORDINATE SHUT-OFF OF SERVICE.
4. COMPLY WITH ALL APPLICABLE UTILITY COMPANY REGULATIONS AS WELL AS CITY, STATE, AND / OR FEDERAL REGULATIONS.
5. COMPLY WITH APPLICABLE "GENERAL CONSTRUCTION NOTES". SEE SHEET 02.
6. A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
7. RELOCATE/REPLACE EXISTING SIGNS AS NEEDED.
8. COORDINATE LANDSCAPING & IRRIGATION WITH LANDSCAPE ARCHITECT.

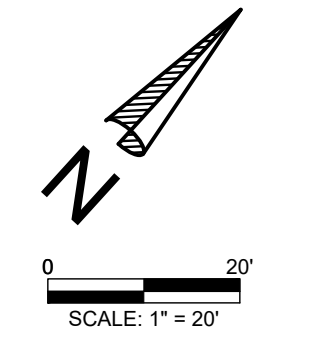
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
CAVALIER DRIVE DEMOLITION

MALONE ★ WHEELER
INC. SINCE 1975
 CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023



LEGEND

- PROP. BOUNDARY
- EXIST. EDGE OF PAVEMENT
- EXIST. DRIVE
- EXIST. PUBLIC UTILITY EASEMENT
- PROPERTY BOUNDARY
- EXIST. SIGN
- EXIST. UTILITY POLE
- SURVEY BENCHMARK
- EXIST. OVERHEAD ELEC.
- EXIST. FENCE
- TREE TO REMAIN
- TREE TO BE REMOVED

- NOTES:**
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NO.	DATE	REVISION	BY

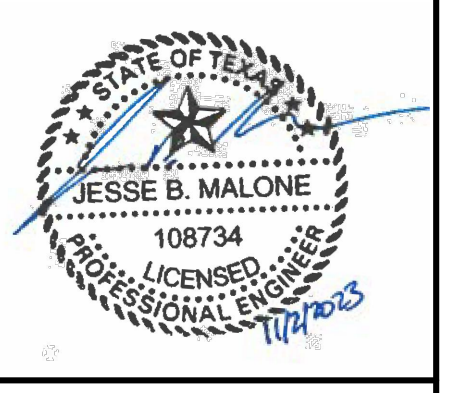
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

BUS LOOP DEMOLITION

MALONE ★ WHEELER

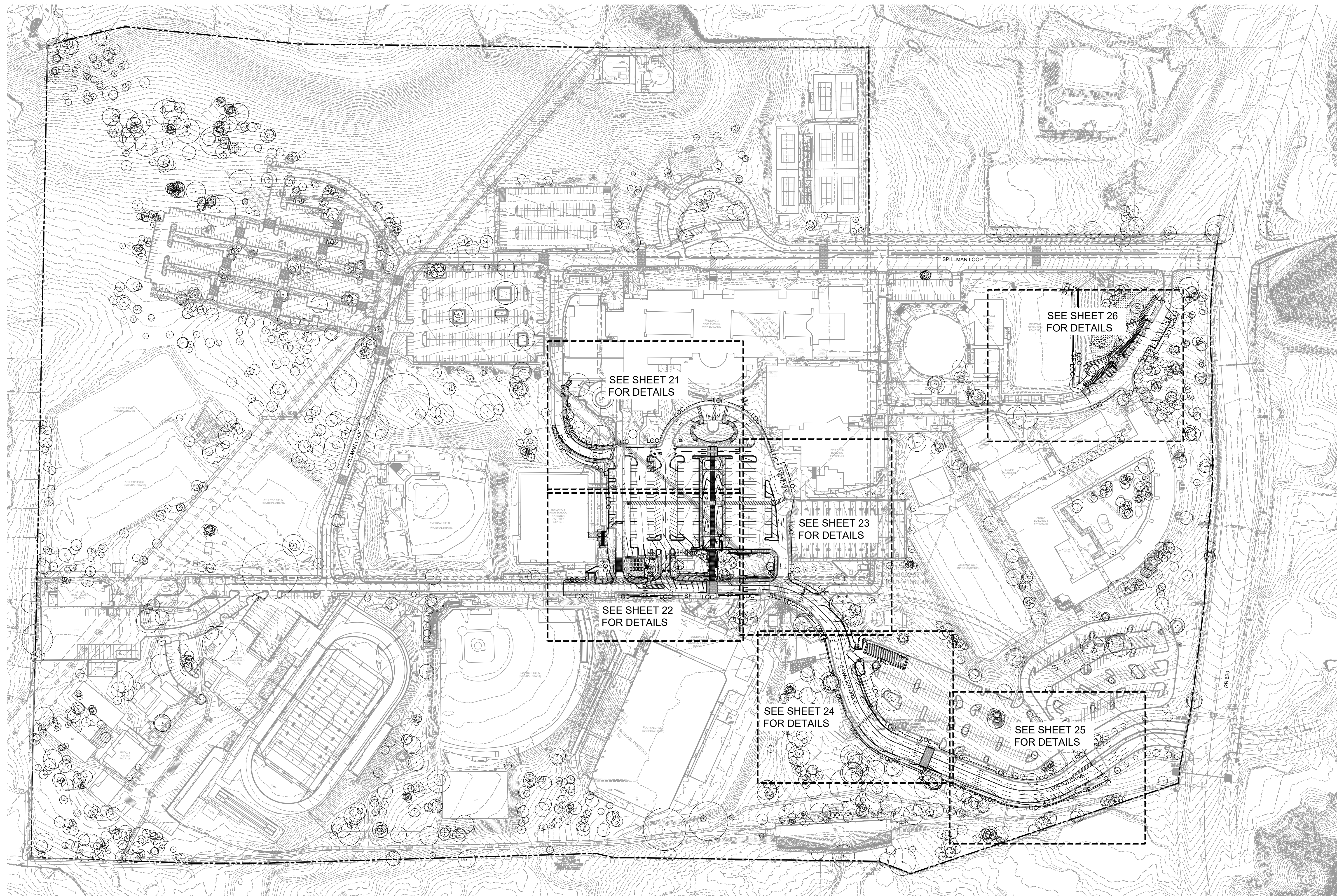
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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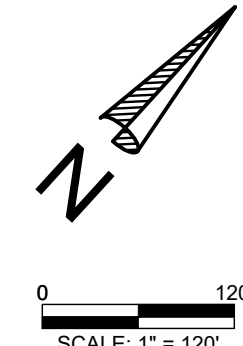


DESIGN BY :	SGC
CHECKED BY :	AV
APPROVED BY :	JBM
DATE :	11/2/2023

F:\UTSD OVERALL\PROJECTS\2024-060-AUS-LTHS 620\DRAWINGS\PLANS\12.12.2024\EROSION CONTROL AND SEDIMENTATION PLAN.DWG, 11/2/2024, ANTHONY VINCENT



LEGEND						
	PROPERTY BOUNDARY		IP	INLET PROTECTION		PROPOSED FINISHED GRADE
	PLAT BOUNDARY		TP	TREE PROTECTION		TREE TO REMAIN
	LIMITS OF CONSTRUCTION		ML	MULCH LOG		TREE TO BE REMOVED
	SILT FENCE		RB	ROCK BERM		
	SILT FENCE W/ J HOOKS		SCE	CONTRACTOR'S STAGING/SPOILS AREA		
				STABILIZED CONSTRUCTION ENTRANCE		



NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

EROSION & SEDIMENTATION CONTROL PLAN OVERALL

MALONE WHEELER
INC. 1976

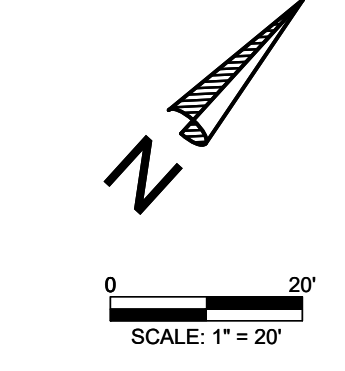
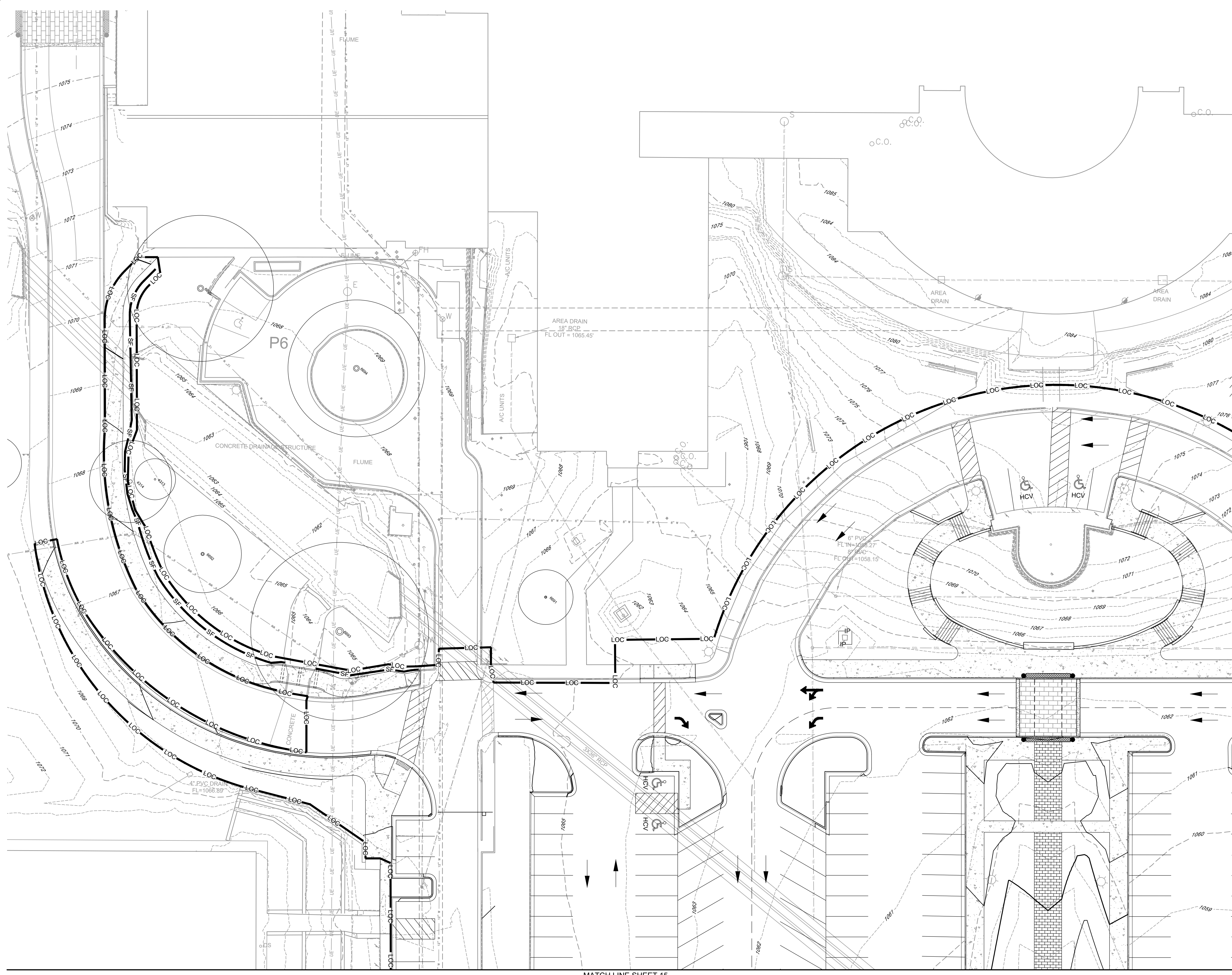
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

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



DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

P:\UTSD\OVERALL\PROJECTS\24-066-AUS-LTMS\2024\DRAWINGS\PLANS\SET12\EROSION CONTROL AND SEDIMENTATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT



- LEGEND**
- PROPERTY BOUNDARY
 - - - PLAT BOUNDARY
 - LOP LIMITS OF PROJECT
 - LIMITS OF CONSTRUCTION
 - SF SILT FENCE
 - JH SILT FENCE W/ J HOOKS
 - IP INLET PROTECTION
 - TP TREE PROTECTION
 - ML MULCH LOG
 - RB ROCK BERM
 - CSA CONTRACTOR'S STAGING/SPOLS AREA
 - SCE STABILIZED CONSTRUCTION ENTRANCE
 - (ESC) PROPOSED FINISHED GRADE
 - (TR) TREE TO REMAIN
 - (TR) TREE TO BE REMOVED

- NOTES:**
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 - ALL REQUIRED NOTICES AND PERMITS MUST BE PLACED IN A HIGHLY VISIBLE LOCATION ONSITE BEFORE THE COMMENCEMENT OF CONSTRUCTION.
 - ALL EROSION AND SEDIMENTATION CONTROLS (ESC) MUST BE INSTALLED PRIOR TO ANY DISTURBANCE TO THE PROJECT SITE.
 - 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.
 - ALL ESC USED ONSITE MUST BE REGULARLY MONITORED AND MAINTAINED AS NEEDED.
 - MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
 - EXCESS MATERIALS THAT WILL BE TRANSPORTED TO AN OFFSITE LOCATION MUST HAVE THAT LOCATION CLEARED BY COUNTY INSPECTOR.
 - LOOSE TRASH AND DEBRIS MUST BE DISPOSED OF PROPERLY ONSITE.
 - CONTRACTOR SHALL MAINTAIN AND UTILIZE DUST CONTROL FOR THE DURATION OF THE PROJECT.
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 - PERMITEE 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, MODIFICATION OF INLET PROTECTION SHOULD BE MADE TO PREVENT FLOODING OR PONDING OF WATER IF TRAFFIC OR PROPERTY CONCERNS ARISE.
 - ANY MULCH THAT IS CREATED BE RETAINED AND STOCKPILED ON SITE TO BE USED AS A TEMPORARY/TRANSITIONAL STABILIZATION MEASURES AS NEEDED/REQUIRED.

BY	
REVISION	
DATE	
NO.	

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

PARKING LOT EROSION & SEDIMENTATION CONTROL PLAN

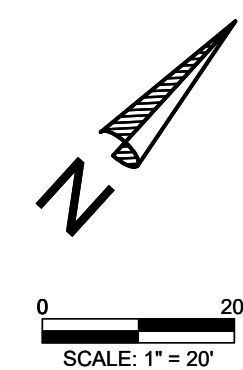
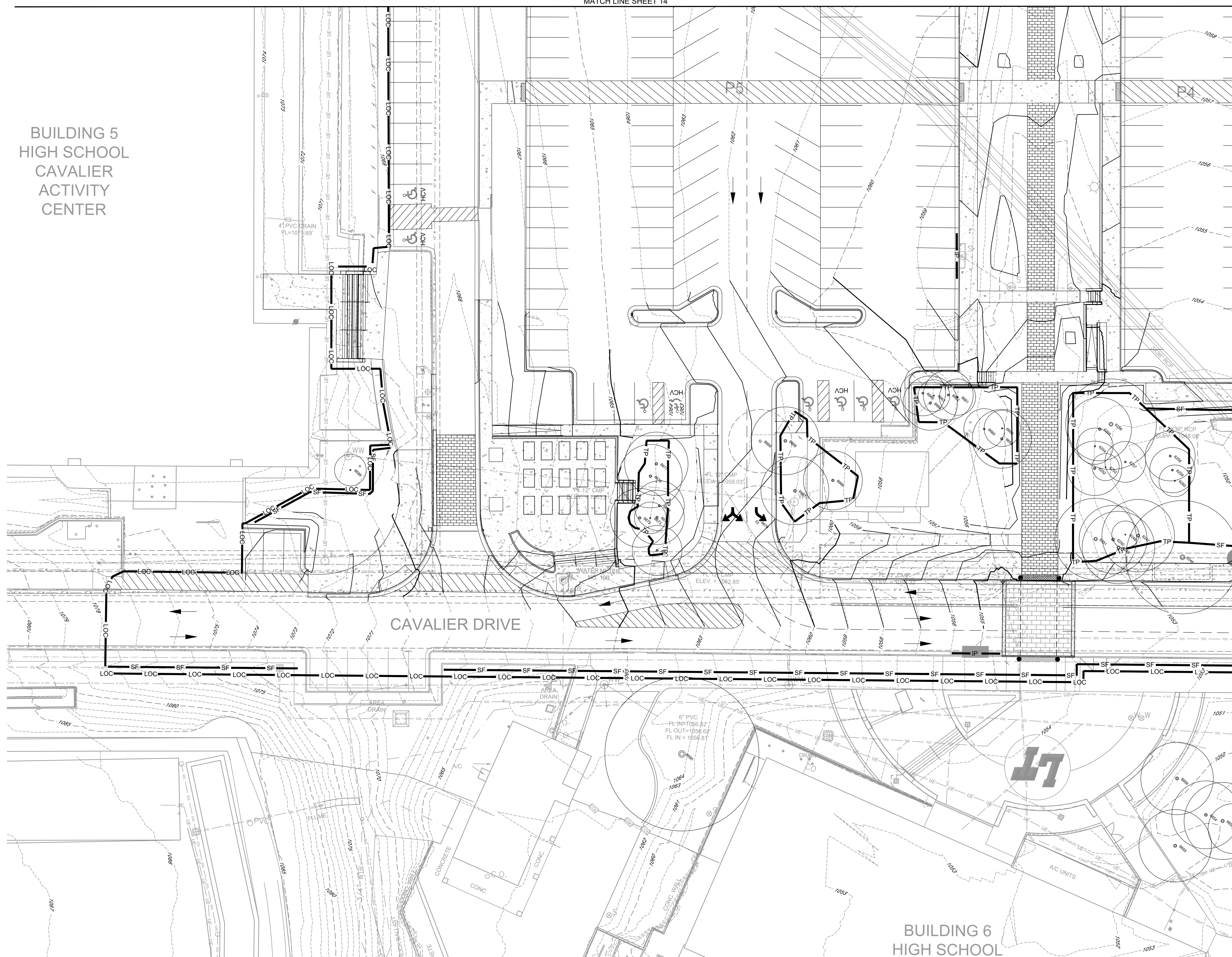
MALONE WHEELER INC.
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

JESSE B. MALONE
108734
LICENSED PROFESSIONAL ENGINEER

DESIGN BY : SGC
CHECKED BY : AV
APPROVED BY : JBM
DATE : 11/2/2023

SHEET 14
OF 69

BUILDING 5
HIGH SCHOOL
CAVALIER
ACTIVITY
CENTER



- LEGEND**
- PROPERTY BOUNDARY
 - PLAT BOUNDARY
 - LOP LIMITS OF PROJECT
 - LLOC LIMITS OF CONSTRUCTION
 - SF SILT FENCE
 - JH SILT FENCE W/ J HOOKS
 - IP INLET PROTECTION
 - TP TREE PROTECTION
 - ML MULCH LOG
 - RB ROCK BERM
 - CSA CONTRACTOR'S STAGING/SPOILS AREA
 - SCE STABILIZED CONSTRUCTION ENTRANCE
 - (550) PROPOSED FINISHED GRADE
 - (T) TREE TO REMAIN
 - (R) TREE TO BE REMOVED

- 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.
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 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.
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 18. TRAVIS COUNTY REQUIRES CERTIFIED SWP3 INSPECTORS TO CONDUCT SWP3 INSPECTIONS AND REPORTING ON ALL PROJECTS WITH ONE ACRE OF DISTURBANCE AND LARGER.
 19. PERMITTEE 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. 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 BE RETAINED AND STOCKPILE ON SITE TO BE USED A TEMPORARY/TRANSITIONAL STABILIZATION MEASURES AS NEEDED/REQUIRED.

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
PARKING LOT EROSION & SEDIMENTATION CONTROL PLAN

MALONE WHEELER
INC. 1975

CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

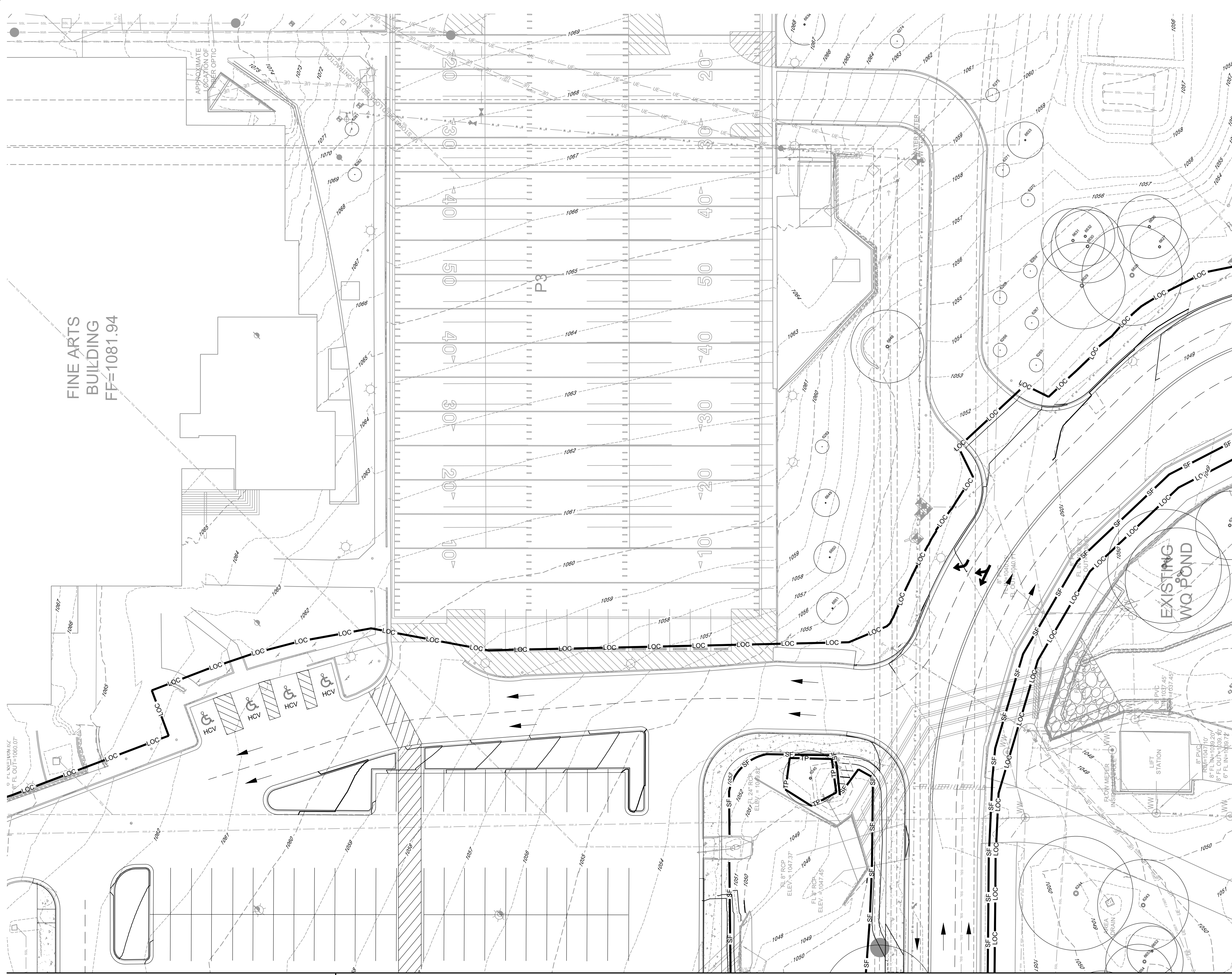
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F:\UTSD_OVERALL\PROJECTS\2024-AUS-LTHS\2024-DRAWINGS\PLANS\SET15\2024 IMPROVEMENT\DRAWINGS\PLANS\SET15\2024 IMPROVEMENT PLAN.DWG, 11/2/2023, ANTHONY VINCENT

F:\UTSD_OVERALL\PROJECTS\24-066-AUS-LTMS\2024_DRAWINGS\PLANS\SET1\2. EROSION CONTROL AND SEDIMENTATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT



N

SCALE: 1" = 20'

LEGEND

- PROPERTY BOUNDARY
- PLAT BOUNDARY
- LOP - LIMITS OF PROJECT
- LOC - LIMITS OF CONSTRUCTION
- SF - SILT FENCE
- JH - SILT FENCE W/ J HOOKS
- IP - INLET PROTECTION
- TP - TREE PROTECTION
- ML - MULCH LOG
- RB - ROCK BERM
- CONTRACTOR'S STAGING/SPILLS AREA
- SCE - STABILIZED CONSTRUCTION ENTRANCE
- (R) 15 - PROPOSED FINISHED GRADE
- (R) 15 - TREE TO REMAIN
- (R) 15 - TREE TO BE REMOVED

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NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE EROSION & SEDIMENTATION CONTROL PLAN

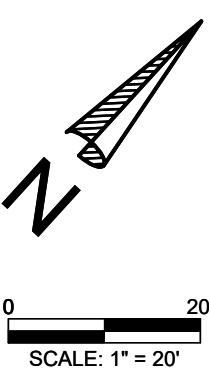
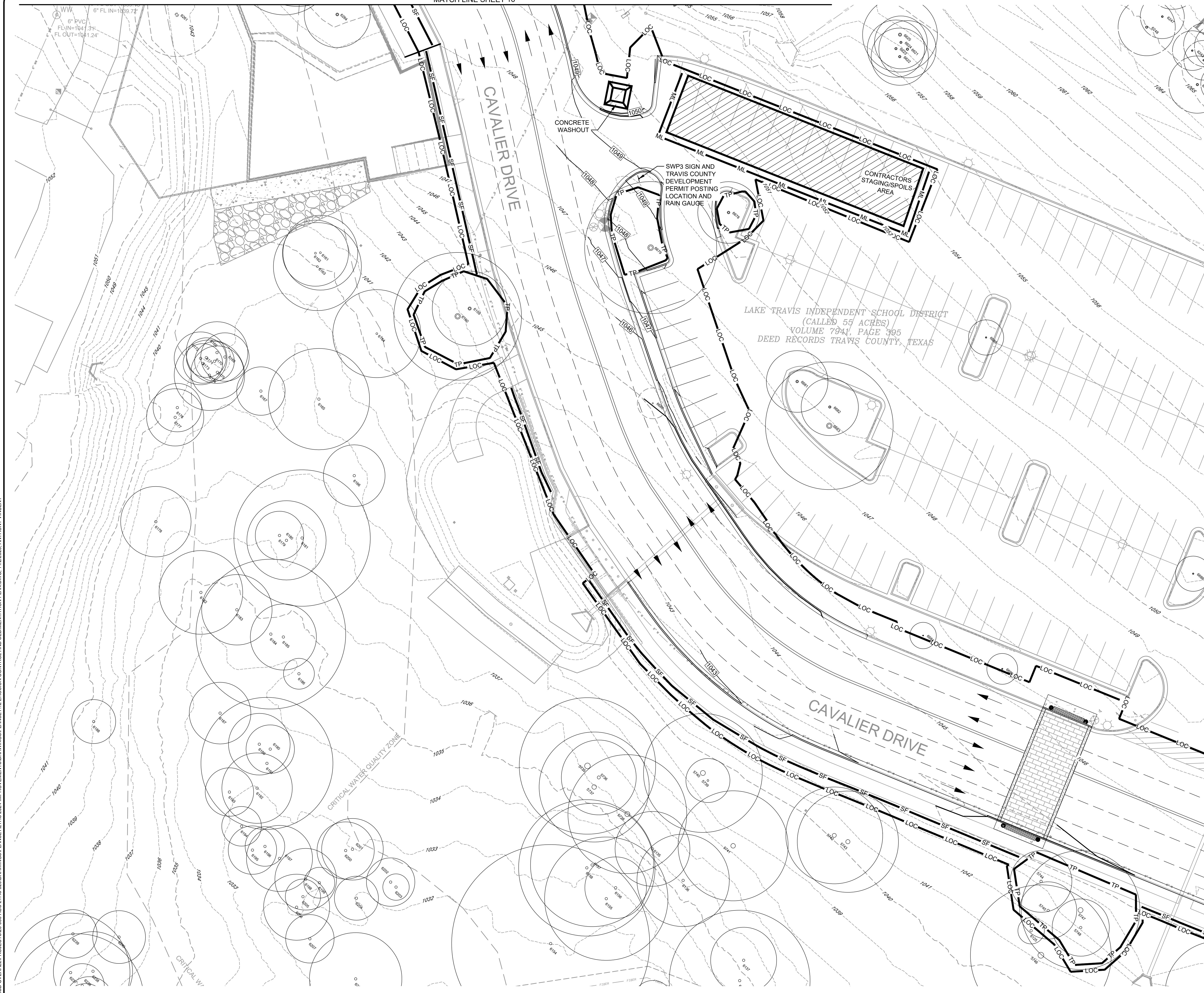
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Phone: (512) 899-0601 Fax: (512) 899-0655
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JESSE B. MALONE
108734
LICENSED PROFESSIONAL ENGINEER

DESIGN BY :	SGC
CHECKED BY :	AV
APPROVED BY :	JBM
DATE :	11/2/2023

SHEET 16
OF 69



LEGEND

---	PROPERTY BOUNDARY
- - - -	PLAT BOUNDARY
---	LIMITS OF PROJECT
---	LIMITS OF CONSTRUCTION
---	SILT FENCE
---	SILT FENCE W/ J HOOKS
---	INLET PROTECTION
---	TREE PROTECTION
---	MULCH LOG
---	ROCK BERM
---	CONTRACTOR'S STAGING/SPOILS AREA
---	STABILIZED CONSTRUCTION ENTRANCE
---	PROPOSED FINISHED GRADE
---	TREE TO REMAIN
---	TREE TO BE REMOVED

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 - CONTRACTOR MUST REMOVE SEDIMENT FROM ALL STORM SEWER INLET BOXES, LINES, PIPES AND CULVERTS BEFORE CONDITIONAL/FINAL ACCEPTANCE CAN OBTAINED.
 - TRAVIS COUNTY REQUIRES CERTIFIED SWP3 INSPECTORS TO CONDUCT SWP3 INSPECTIONS AND REPORTING ON ALL PROJECTS WITH ONE ACRE OF DISTURBANCE AND LARGER.
 - PERMITEE 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, MODIFICATION OF INLET PROTECTION SHOULD BE MADE TO PREVENT FLOODING OR PONDING OF WATER IF TRAFFIC OR PROPERTY CONCERNS ARISE.
 - ANY MULCH THAT IS CREATED BE RETAINED AND STOCKPILED ON SITE TO BE USED AS A TEMPORARY/TRANSITIONAL STABILIZATION MEASURES AS NEEDED/REQUIRED.

BY	
REVISION	
DATE	
NO.	

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
CAVALIER DRIVE EROSION & SEDIMENTATION CONTROL PLAN

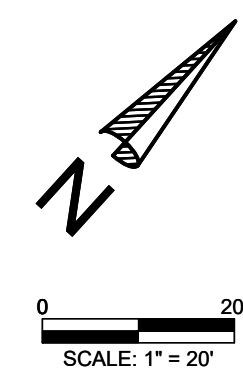
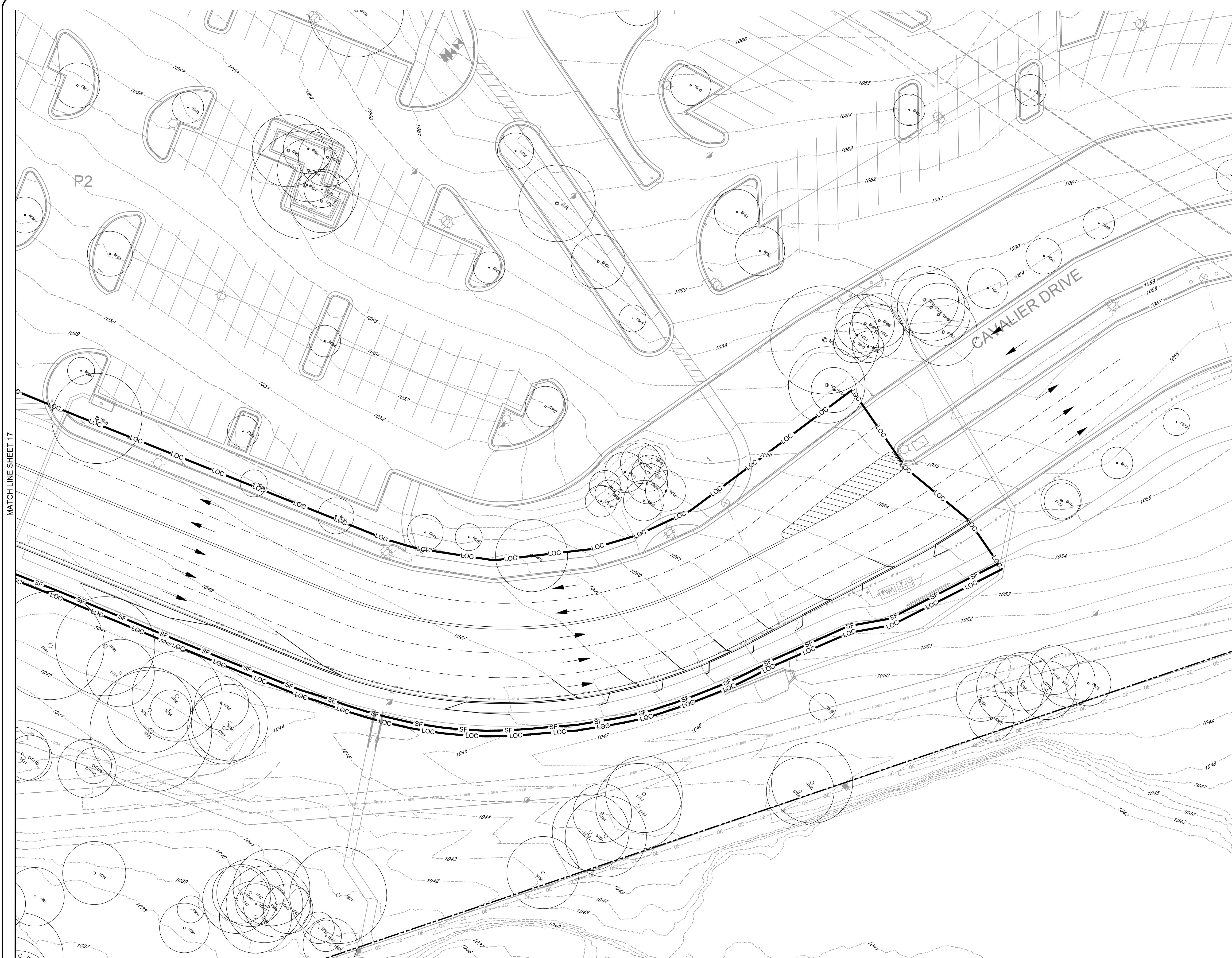
MALONE WHEELER INC.
INC. 1975
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

F:\UTSD OVERALL PROJECTS\2024-AUS-LTHS 620DRAWINGS\PLANS\SET12 EROSION CONTROL AND SEDIMENTATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT

PLUTISD OVERALL PROJECTS 2024 IMPROVEMENTS PLAN SHEET 12 EROSION CONTROL AND SEDIMENTATION PLAN DWG. 11/2/2023. ANTHONY VINCENT



LEGEND

	PROPERTY BOUNDARY
	PLAT BOUNDARY
	LOP - LIMITS OF PROJECT
	LOC - LIMITS OF CONSTRUCTION
	SF - SILT FENCE
	JH - SILT FENCE W/ J HOOKS
	IP - INLET PROTECTION
	TP - TREE PROTECTION
	ML - MULCH LOG
	ROCK BERM
	CONTRACTOR'S STAGING/SPOILS AREA
	SCE - STABILIZED CONSTRUCTION ENTRANCE
	PROPOSED FINISHED GRADE
	TREE TO REMAIN
	TREE TO BE REMOVED

- NOTES:**
- 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.
 - ALL REQUIRED NOTICES AND PERMITS MUST BE PLACED IN A HIGHLY VISIBLE LOCATION ONSITE BEFORE THE COMMENCEMENT OF CONSTRUCTION.
 - ALL EROSION AND SEDIMENTATION CONTROLS (ESC) MUST BE INSTALLED PRIOR TO ANY DISTURBANCE TO THE PROJECT SITE.
 - 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.
 - ALL ESC USED ONSITE MUST BE REGULARLY MONITORED AND MAINTAINED AS NEEDED.
 - MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
 - EXCESS MATERIALS THAT WILL BE TRANSPORTED TO AN OFFSITE LOCATION MUST HAVE THAT LOCATION CLEARED BY COUNTY INSPECTOR.
 - LOOSE TRASH AND DEBRIS MUST BE DISPOSED OF PROPERLY ONSITE.
 - CONTRACTOR SHALL MAINTAIN AND UTILIZE DUST CONTROL FOR THE DURATION OF THE PROJECT.
 - THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING ONTO THE PUBLIC ROADWAY ON AN ONGOING/REGULAR BASIS.
 - INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY UPON INLET INSTALLATION.
 - INITIATE TEMPORARY STABILIZATION WHEN CONSTRUCTION CEASES IN A DISTURBED AREA FOR 14 DAYS.
 - INITIATE PERMANENT STABILIZATION IMMEDIATELY ONCE WORK HAS CEASED AND FINAL GRADE HAS BEEN ACHIEVED.
 - 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.
 - COUNTY INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE AS NEEDED.
 - TEMPORARY ESC MEASURES SHALL REMAIN IN PLACE IN ALL DISTURBED AREAS UNTIL ADEQUATE STABILIZATION HAS BEEN ACHIEVED.
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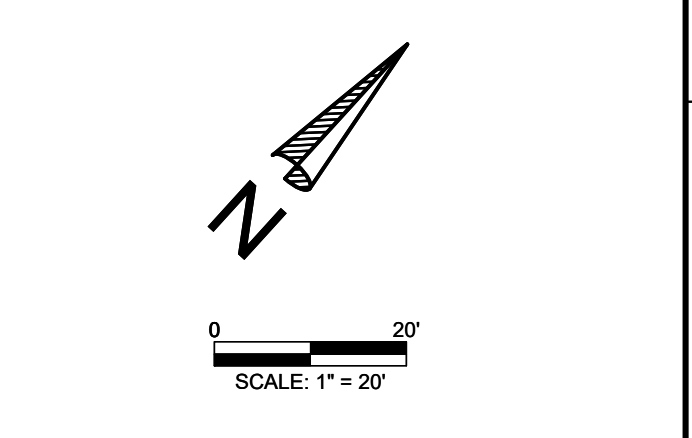
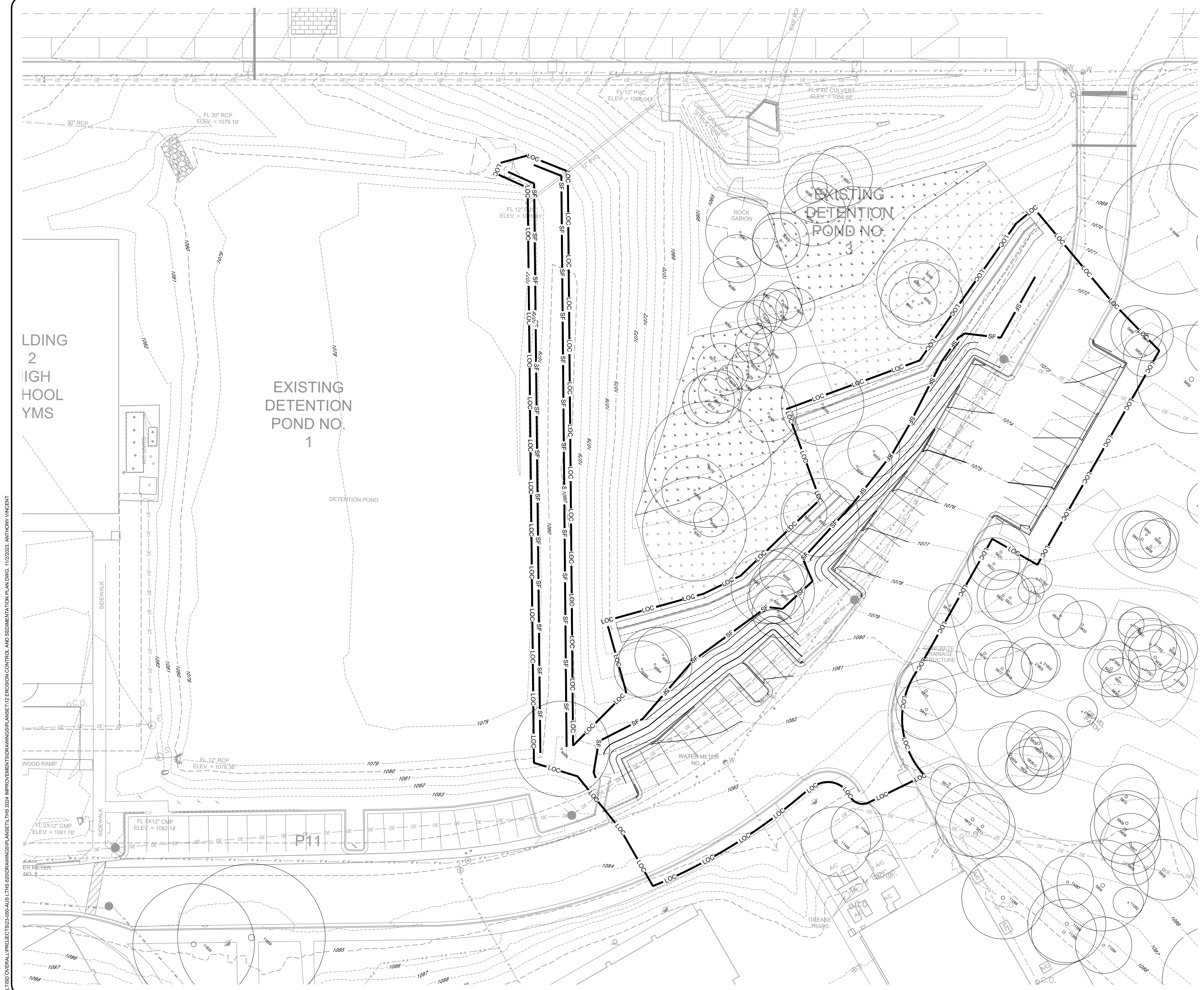
NO.	DATE	REVISION

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
 3324 RANCH ROAD 620 SOUTH
 CAVALIER DRIVE EROSION & SEDIMENTATION CONTROL PLAN

MALONE WHEELER
INC. SINCE 1975
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023



LEGEND

---	PROPERTY BOUNDARY
- - - -	PLAT BOUNDARY
—●—	LIMITS OF PROJECT
—●—	LIMITS OF CONSTRUCTION
—	SILT FENCE
—	SILT FENCE W/ J HOOKS
—	INLET PROTECTION
—	TREE PROTECTION
—	MULCH LOG
○	ROCK BERM
□	CONTRACTOR'S STAGING/SPILLS AREA
□	STABILIZED CONSTRUCTION ENTRANCE
○	PROPOSED FINISHED GRADE
○	TREE TO REMAIN
○	TREE TO BE REMOVED

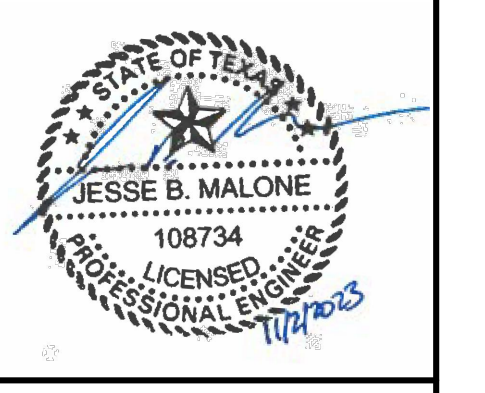
- NOTES:**
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NO.	DATE	REVISION

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
BUS LOOP EROSION & SEDIMENTATION CONTROL PLAN

MALONE WHEELER
INC. 1975

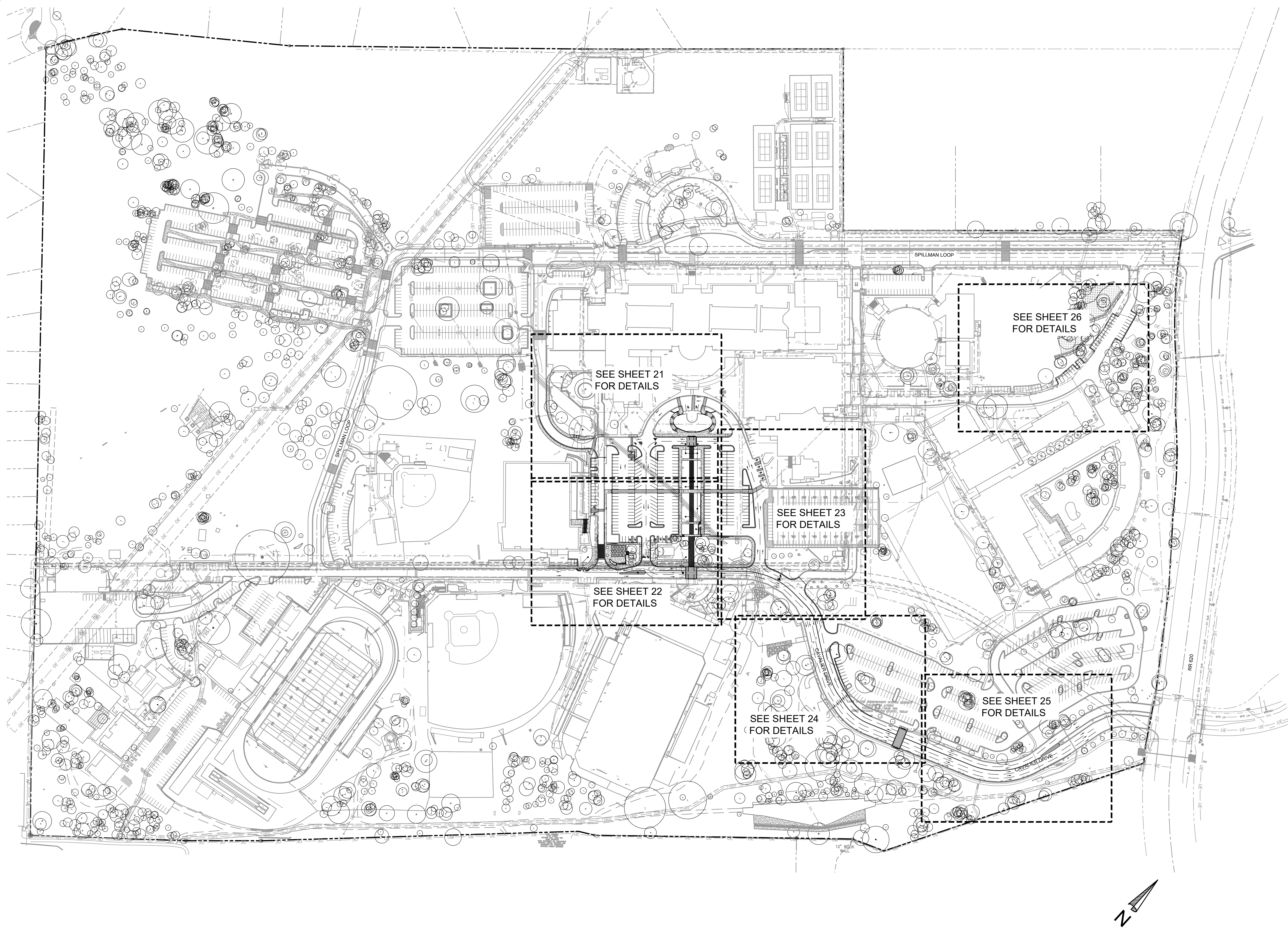
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



DESIGN BY : SGC
CHECKED BY : AV
APPROVED BY : JBM
DATE : 11/2/2023

PULISD OVERALLPROJECTS02-090-AUS.LTHS 620DRAWINGS\PLANS\SET12 EROSION CONTROL AND SEDIMENTATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT

FINAL SITE PLAN OVERALL PROJECTS 2024 IMPROVEMENTS DRAWINGS PLANSET 10 SITE PLAN DWG. 11/2/2023 ANTHONY VINCENT



NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

SITE PLAN OVERALL

MALONE ★ WHEELER
INC. 1976

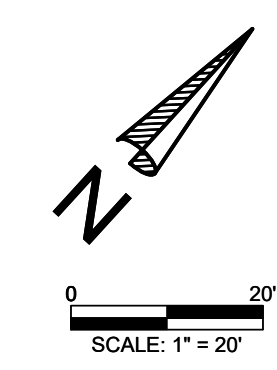
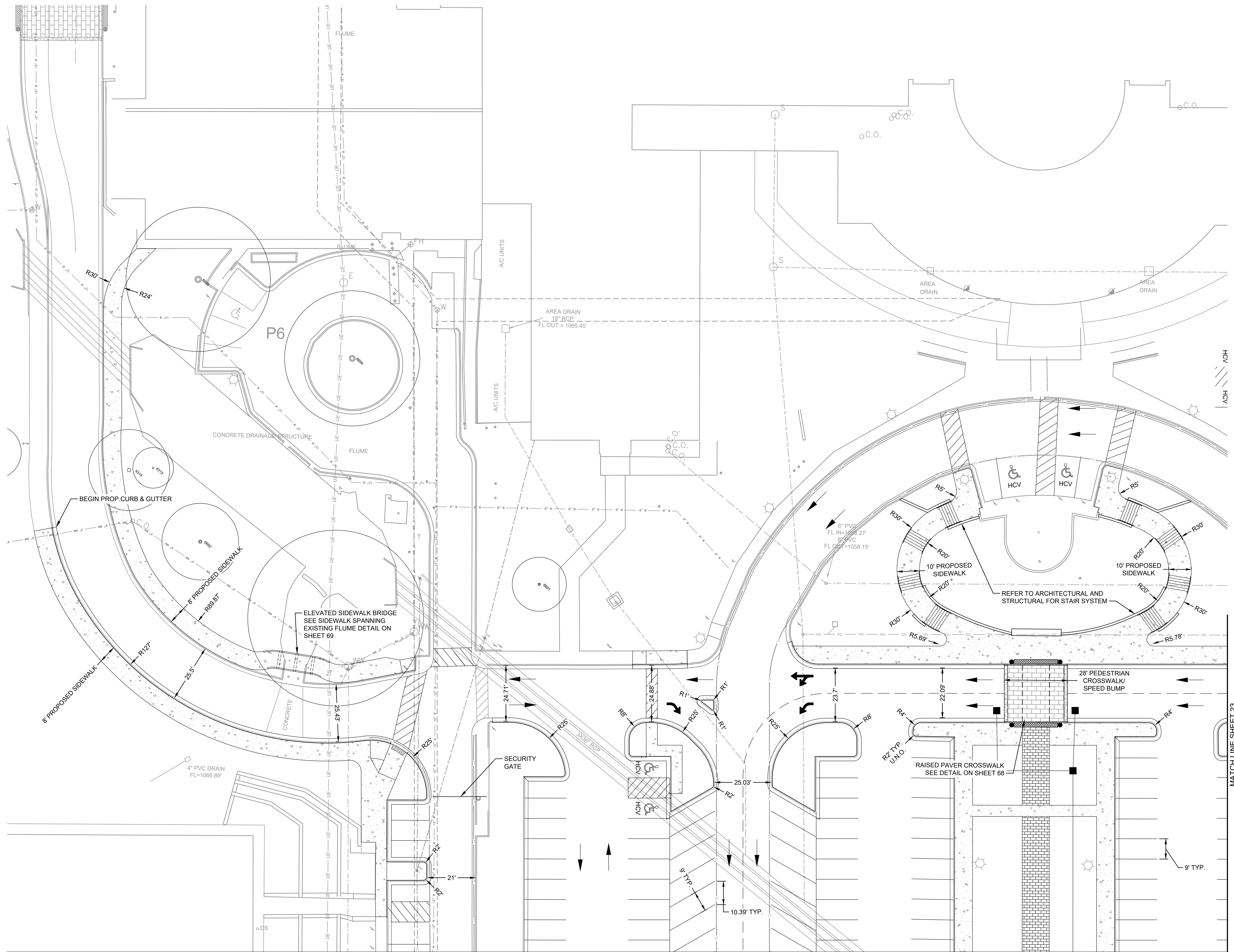
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD OVERALL PROJECTS\2024-096-AUS-LTHS 2024 IMPROVEMENTS\DRAWINGS\PLANS\SET110 SITE PLAN.DWG: 11/2/2023, ANTHONY VINCENT



- LEGEND**
- BOUNDARY LINE
 - - - PROP. CENTER LINE
 - ==== PROP. SIDEWALK
 - ==== PROP. FIRE LANE
 - PROP. METAL FENCE
 - ==== PROP. CURB AND GUTTER
 - ==== PROP. SPILL CURB
 - ==== PROP. CONCRETE
 - PROP. STORM SEWER
 - PROP. ELEC. CONDUIT
 - PROP. LIGHT POLE
 - PROP. STORM INLET
 - PROP. STORM MANHOLE
 - ▣ PROP. SLOTTED DRAIN
 - PROP. GRATE INLET
 - PROP. AREA INLET
 - ▨ PROP. RETAINING WALL

NO.	DATE	REVISION

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

ENLARGED PARKING LOT

MALONE WHEELER
INC. 1976

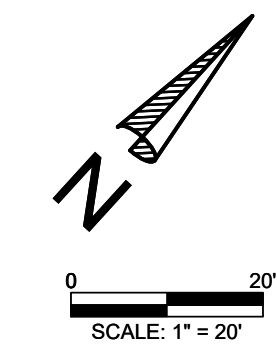
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
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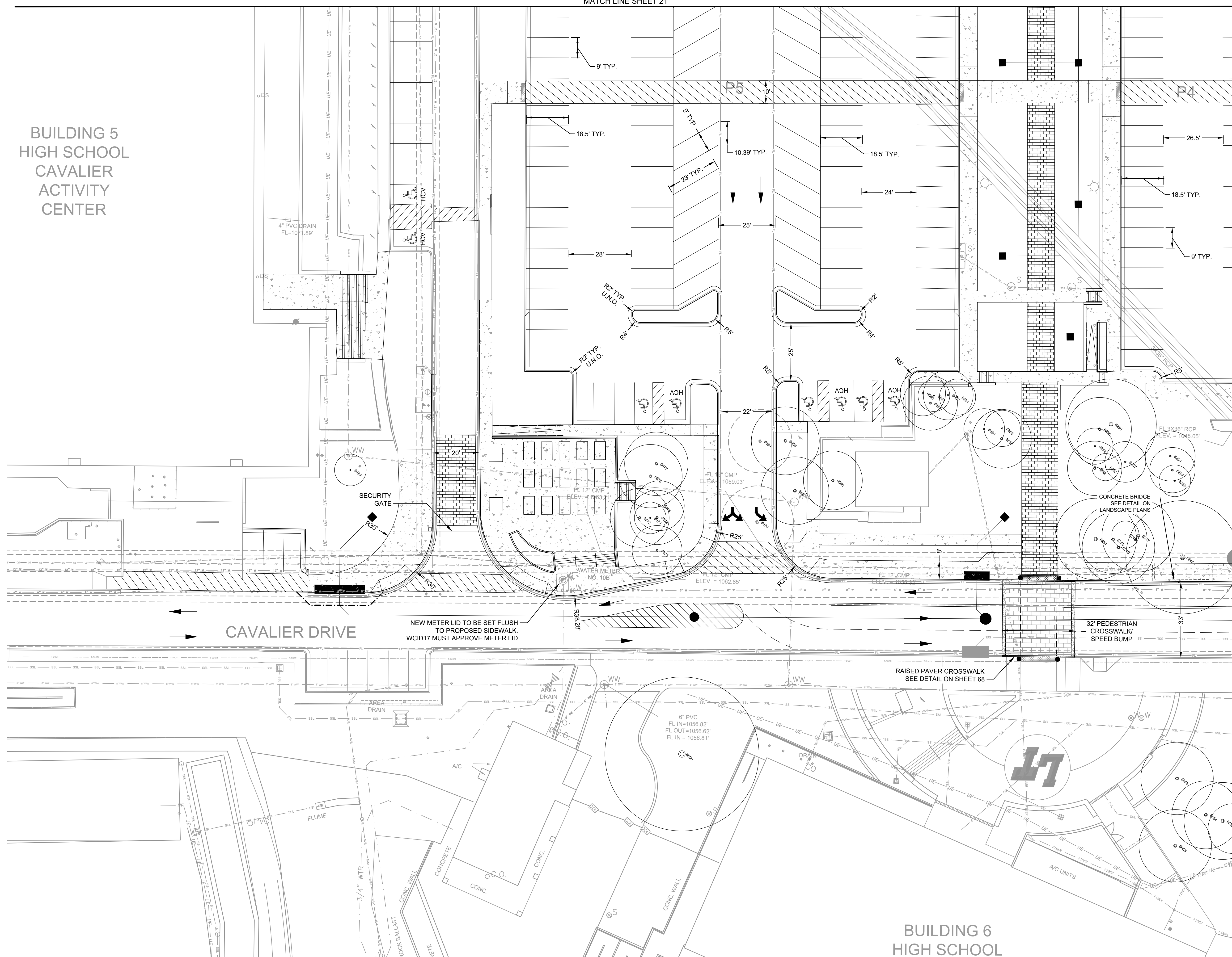


DESIGN BY : SGC
CHECKED BY : AV
APPROVED BY : JBM
DATE : 11/2/2023

BUILDING 5
HIGH SCHOOL
CAVALIER
ACTIVITY
CENTER



- LEGEND**
- BOUNDARY LINE
 - - - PROP. CENTER LINE
 - ==== PROP. SIDEWALK
 - ==== PROP. FIRE LANE
 - PROP. METAL FENCE
 - ==== PROP. CURB AND GUTTER
 - ==== PROP. SPILL CURB
 - ==== PROP. CONCRETE
 - PROP. STORM SEWER
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 - PROP. LIGHT POLE
 - PROP. STORM INLET
 - PROP. STORM MANHOLE
 - ▬ PROP. SLOTTED DRAIN
 - PROP. GRATE INLET
 - PROP. AREA INLET
 - ▨ PROP. RETAINING WALL



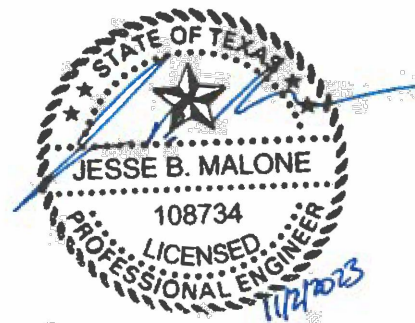
MATCH LINE SHEET 23

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

ENLARGED PARKING LOT

MALONE ★ WHEELER
INC. 1975

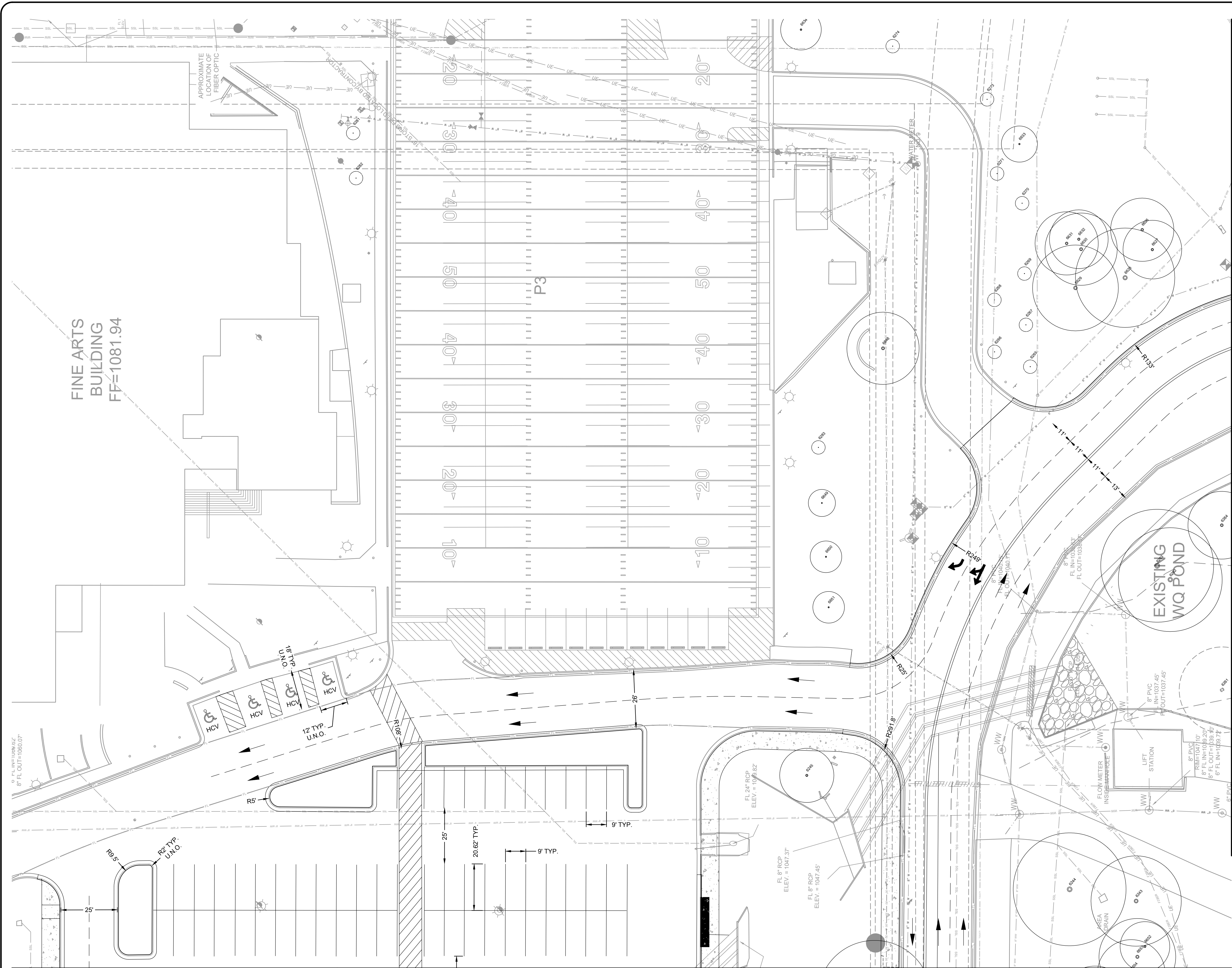
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD_OVERALL\PROJECTS\2024-AUS-LTHS\DRAWINGS\PLANS\SET110 SITE PLAN.DWG: 11/2/2023, ANTHONY VINCENT

F:\UTSD_OVERALL\PROJECTS\2024-AUS-LTHS\2024-DRAWINGS\PLANS\SET110 SITE PLAN.DWG: 11/2/2023: ANTHONY VINCENT



0 20'
 SCALE: 1" = 20'
LEGEND
 --- BOUNDARY LINE
 --- PROP. CENTER LINE
 --- PROP. SIDEWALK
 --- PROP. FIRE LANE
 --- PROP. METAL FENCE
 --- PROP. CURB AND GUTTER
 --- PROP. SPILL CURB
 [Hatched] PROP. CONCRETE
 --- PROP. STORM SEWER
 --- PROP. ELEC. CONDUIT
 □ PROP. LIGHT POLE
 ■ PROP. STORM INLET
 ● PROP. STORM MANHOLE
 [Hatched] PROP. SLOTTED DRAIN
 [Hatched] PROP. GRATE INLET
 [Hatched] PROP. AREA INLET
 [Hatched] PROP. RETAINING WALL

MATCH LINE SHEET 24

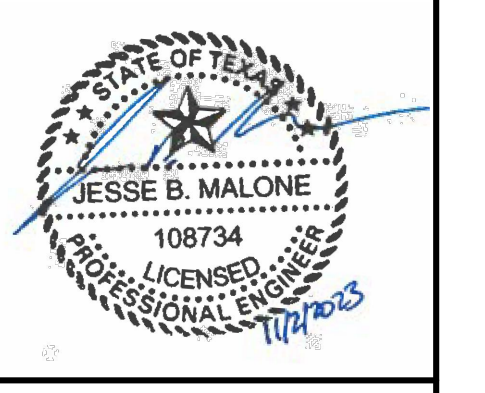
MATCH LINE SHEET 21

MATCH LINE SHEET 22

NO.	DATE	REVISION	BY

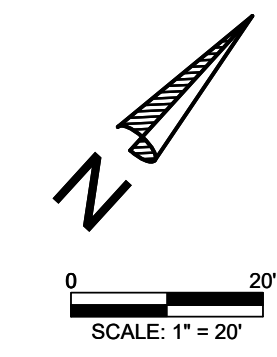
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
 3324 RANCH ROAD 620 SOUTH
ENLARGED CAVALIER DRIVE

MALONE ★ WHEELER
INC. 1975
 CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
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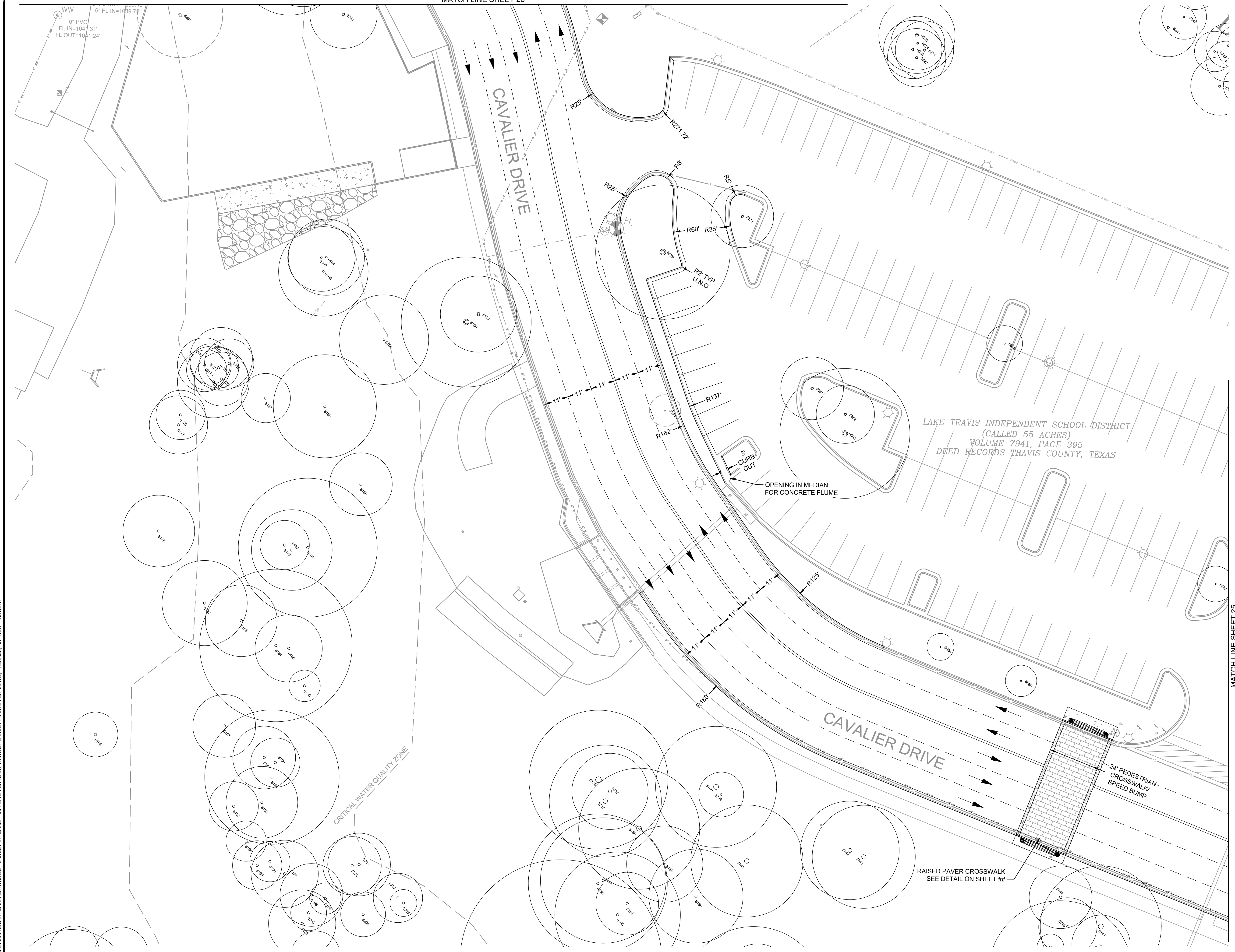


DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

WW
6" PVC
FL IN=104.31'
FL OUT=104.24'



- LEGEND**
- BOUNDARY LINE
 - - - PROP. CENTER LINE
 - ==== PROP. SIDEWALK
 - ==== PROP. FIRE LANE
 - PROP. METAL FENCE
 - ==== PROP. CURB AND GUTTER
 - ==== PROP. SPILL CURB
 - ==== PROP. CONCRETE
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 - ▬ PROP. SLOTTED DRAIN
 - PROP. GRATE INLET
 - PROP. AREA INLET
 - ▨ PROP. RETAINING WALL

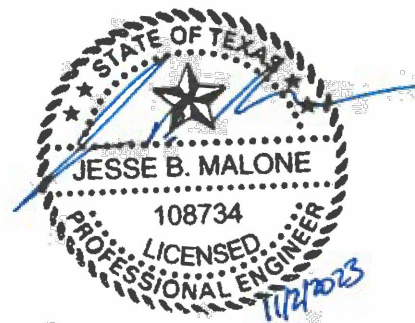


LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT
(CALLED 55 ACRES)
VOLUME 7941, PAGE 395
DEED RECORDS TRAVIS COUNTY, TEXAS

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

ENLARGED CAVALIER DRIVE

MALONE WHEELER
INC. 1976
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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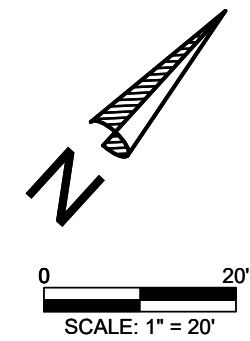
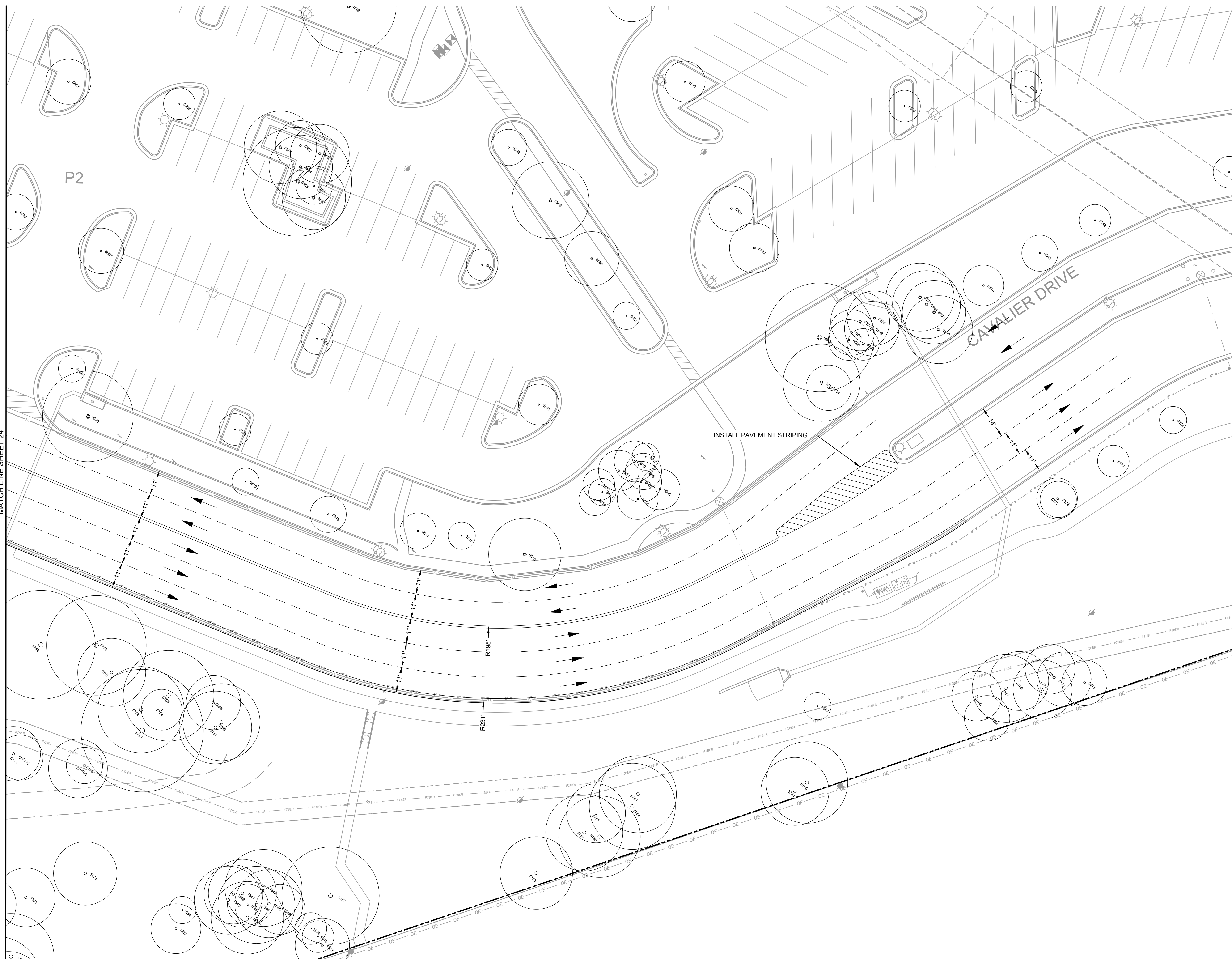


DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD OVERALL\PROJECTS\2024-AUS-LTHS 620\DRAWINGS\PLANS\110 SITE PLAN.DWG: 11/2/2023, ANTHONY VINCENT

F:\UTISD_OVERALL\PROJECTS\02-060-AUS_LTHS_02\DRAWINGS\PLANS\ELTHS_2024_IMPROVEMENT\DRAWINGS\PLANSET\10 SITE PLAN.DWG: 11/2/2023: ANTHONY VINCENT

MATCH LINE SHEET 24



LEGEND

- BOUNDARY LINE
- - - PROP. CENTER LINE
- ===== PROP. SIDEWALK
- ==== PROP. FIRE LANE
- PROP. METAL FENCE
- ===== PROP. CURB AND GUTTER
- ===== PROP. SPILL CURB
- ===== PROP. CONCRETE
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- PROP. SLOTTED DRAIN
- PROP. GRATE INLET
- PROP. AREA INLET
- ===== PROP. RETAINING WALL

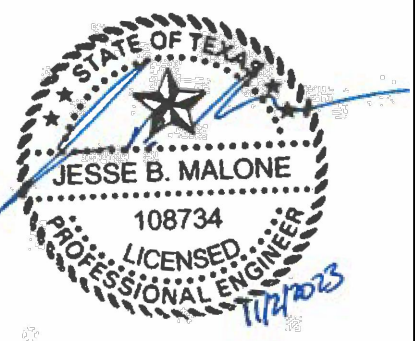
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

ENLARGED CAVALIER DRIVE

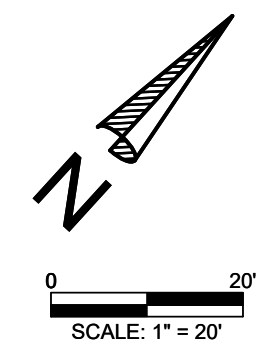
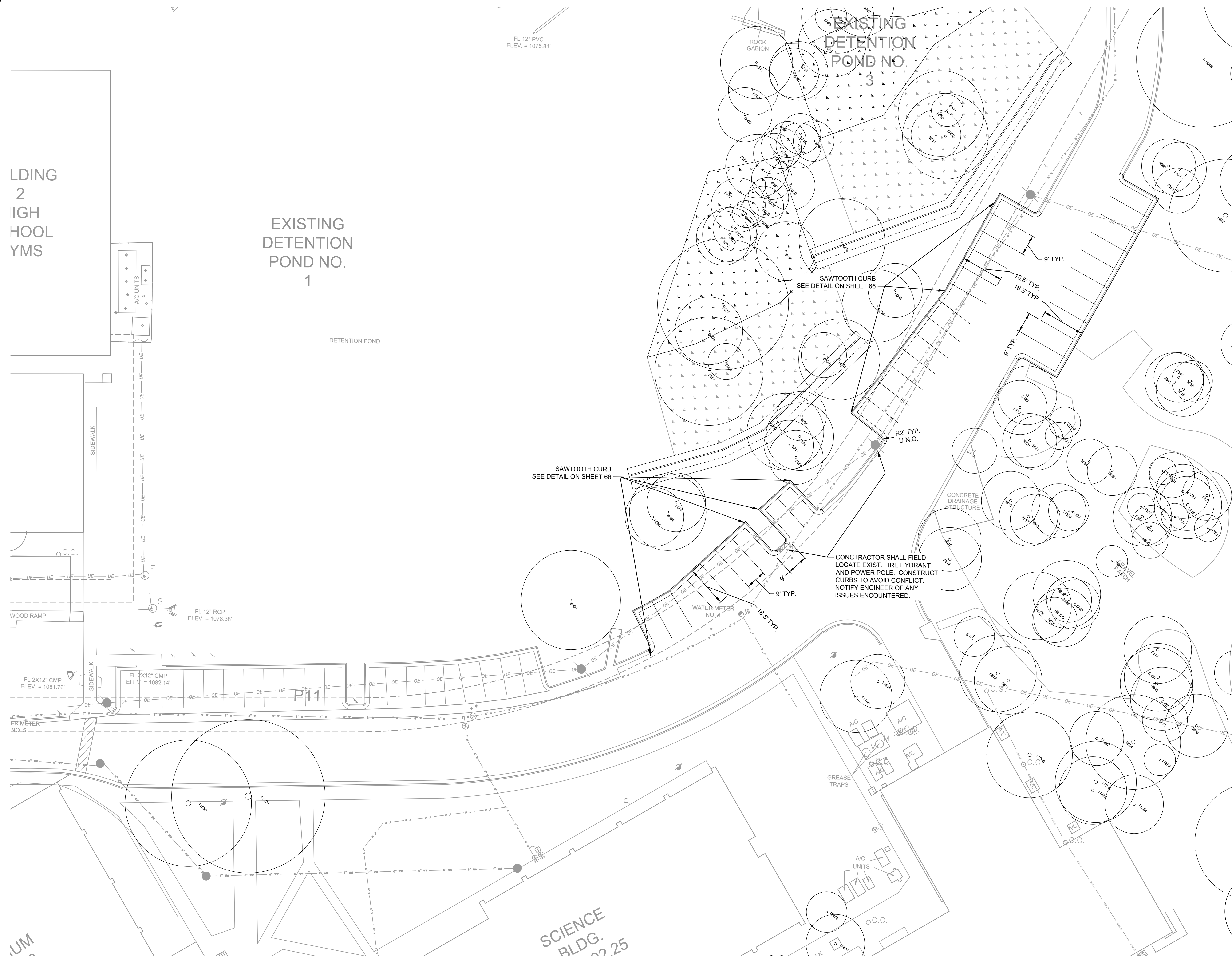
MALONE WHEELER
INC. 1975

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



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

P:\ULTSD OVERALL PROJECTS\2024-066-AUS-LTHS 2024 IMPROVEMENTS\DRAWINGS\PLANS\SET110 SITE PLAN.DWG, 11/2/2023, ANTHONY VINCENT



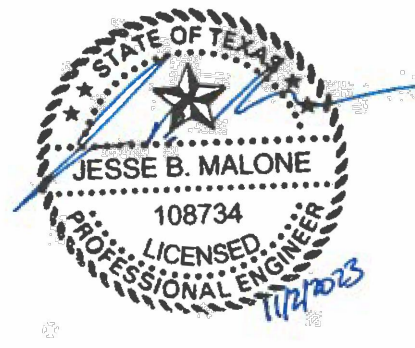
- LEGEND**
- BOUNDARY LINE
 - PROP. CENTER LINE
 - PROP. SIDEWALK
 - PROP. FIRE LANE
 - PROP. METAL FENCE
 - PROP. CURB AND GUTTER
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 - PROP. AREA INLET
 - PROP. RETAINING WALL

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
 3324 RANCH ROAD 620 SOUTH

ENLARGED BUS LOOP

MALONE WHEELER
INC. SINCE 1975

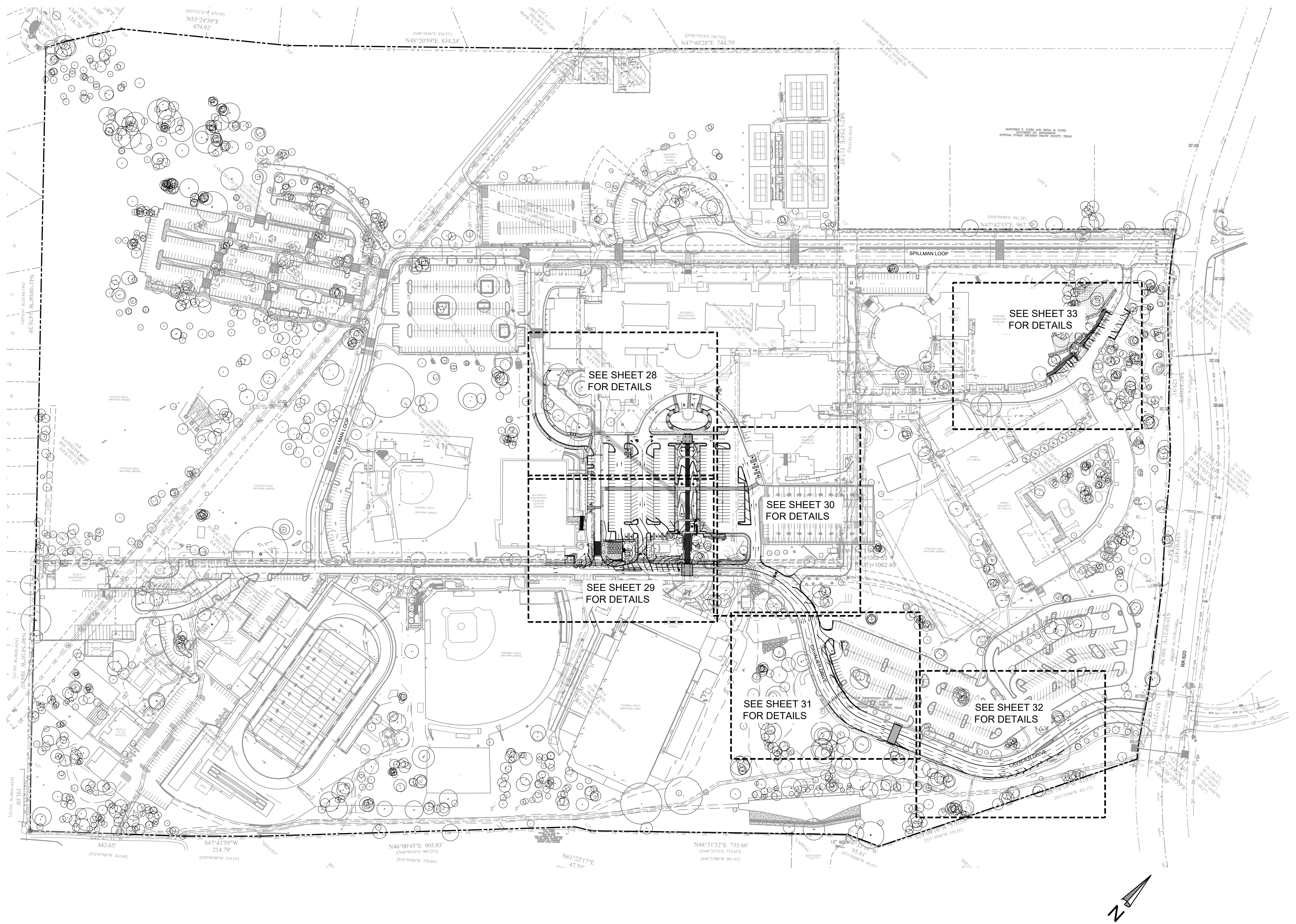
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

SHEET 26
 OF 69

PLTSD OVERALL PROJECTS 092-090-AUS-LTIS 620 DRAWINGS PLAN SET 125 GRADING PLAN DWG. 11/22/2023. ANTHONY VINCENT



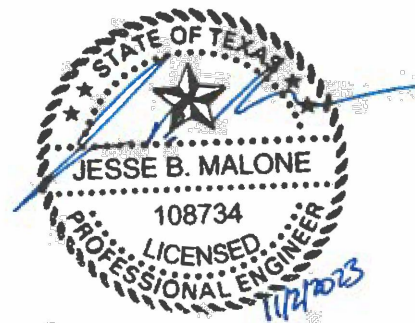
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

GRADING PLAN OVERALL

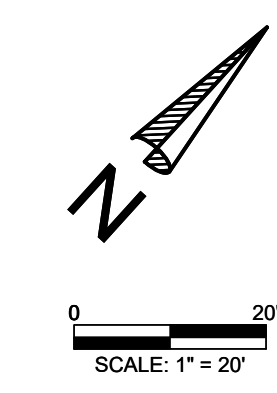
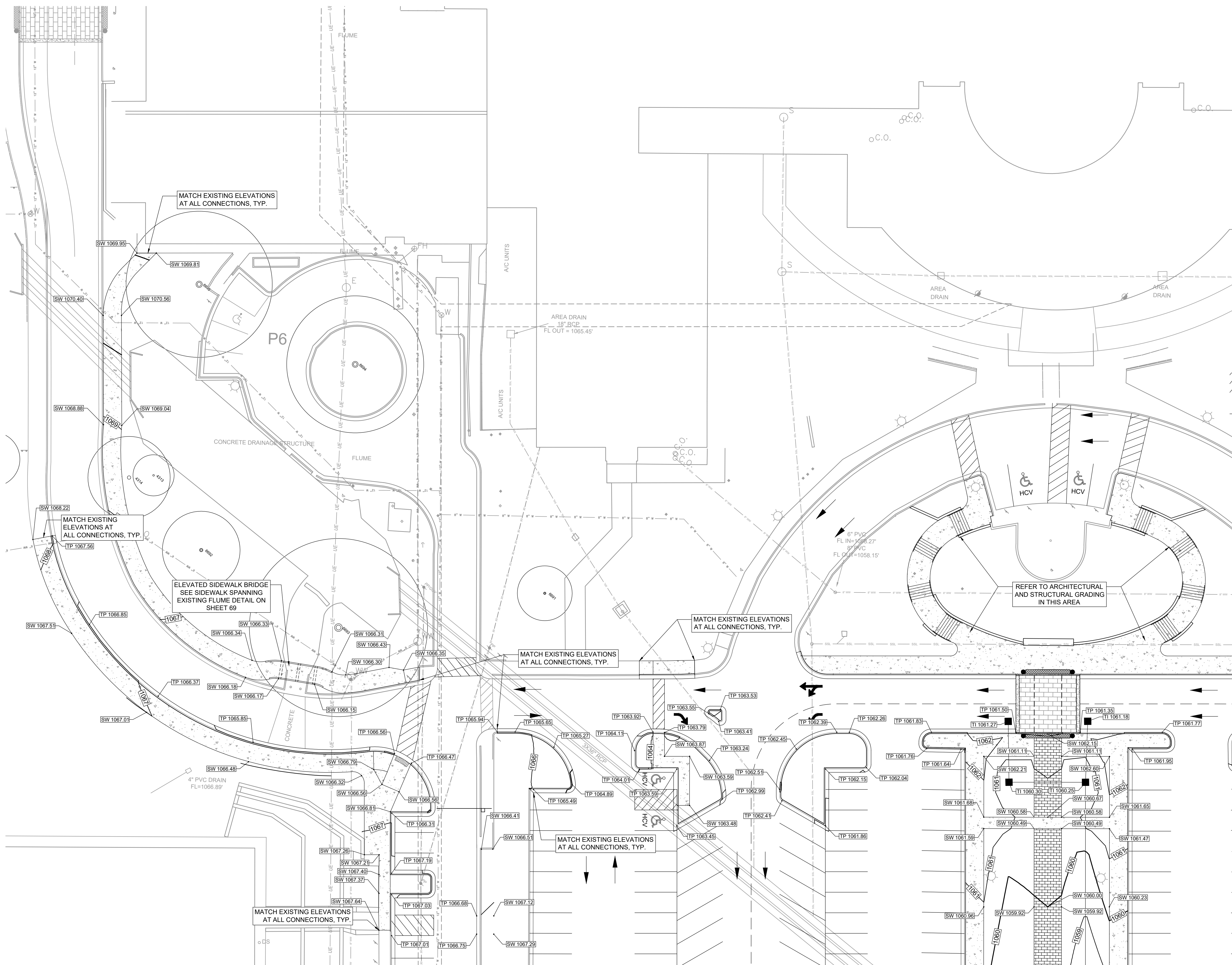
MALONE ★ WHEELER
INC. 1976

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



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

P:\UTLSD\OVERALL\PROJECTS\06-AUS-LTHS 2024 IMPROVEMENTS\DRAWINGS\PLANSET\125 GRADING PLAN.DWG, 11/22/2023, ANTHONY VINCENT



- LEGEND**
- BOUNDARY LINE
 - - - - - EXIST. GROUND CONTOUR
 - - - - - 350 PROP. GROUND CONTOUR
 - 930.00 X PROP. SPOT ELEVATION
 - - - - - PROP. GROUND CONTOUR
 - PROP. CENTER LINE
 - - - - - PROP. SIDEWALK
 - - - - - PROP. FIRE LANE
 - - - - - PROP. METAL FENCE
 - - - - - PROP. CURB AND GUTTER
 - - - - - PROP. SPILL CURB
 - - - - - PROP. RIBBON CURB
 - [Hatched Box] PROP. CONCRETE
 - - - - - PROP. STORM SEWER
 - - - - - PROP. WATER LINE
 - - - - - PROP. FORCE MAIN LINE
 - - - - - PROP. WASTEWATER LINE
 - PROP. LIGHT POLE
 - PROP. STORM INLET
 - PROP. STORM MANHOLE
 - PROP. SLOTTED DRAIN
 - PROP. GRATE INLET
 - PROP. AREA INLET

- SPOT ELEVATION KEY**
- CS 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
 - FFE FINISHED FLOOR ELEVATION
 - FG FINISHED GRADE

NOTE:

1. ALL SPOT ELEVATIONS ARE GROUND/PAVEMENT UNLESS NOTED OTHERWISE.
2. WALL ELEVATIONS ARE FOR GRADING PURPOSES ONLY AND A STRUCTURAL DESIGN IS REQUIRED BY OTHERS.
3. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [ANSI 403.3]
4. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [ANSI 403.3]

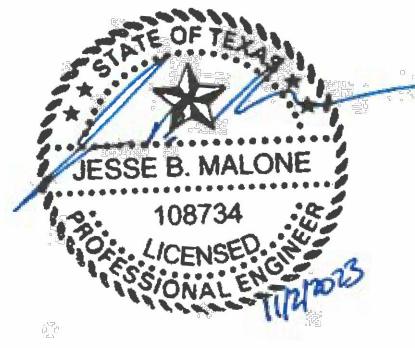
NO.	DATE	REVISION	BY

**LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH**

PARKING LOT GRADING

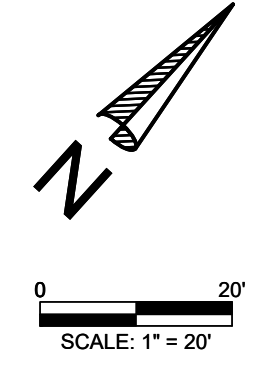
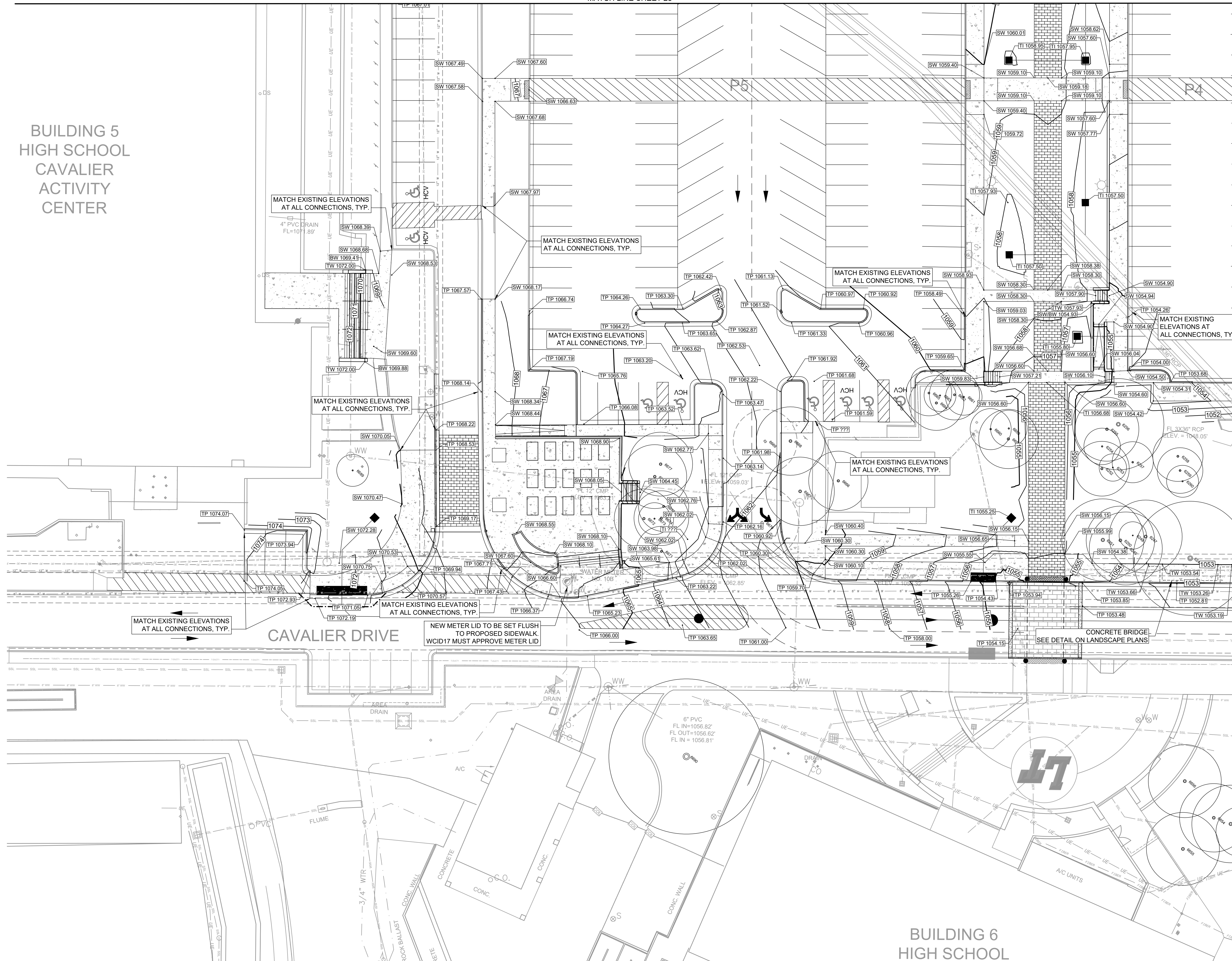
MALONE ★ WHEELER
INC. SINCE 1975

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



DESIGN BY : SGC
CHECKED BY : AV
APPROVED BY : JBM
DATE : 11/22/2023

BUILDING 5
HIGH SCHOOL
CAVALIER
ACTIVITY
CENTER



- LEGEND**
- BOUNDARY LINE
 - - - - EXIST. GROUND CONTOUR
 - PROP. GROUND CONTOUR
 - PROP. SPOT ELEVATION
 - PROP. GROUND CONTOUR
 - PROP. CENTER LINE
 - PROP. SIDEWALK
 - PROP. FIRE LANE
 - PROP. METAL FENCE
 - PROP. CURB AND GUTTER
 - PROP. SPILL CURB
 - PROP. RIBBON CURB
 - PROP. CONCRETE
 - PROP. STORM SEWER
 - PROP. WATER LINE
 - PROP. FORCE MAIN LINE
 - PROP. WASTEWATER LINE
 - PROP. LIGHT POLE
 - PROP. STORM INLET
 - PROP. STORM MANHOLE
 - PROP. SLOTTED DRAIN
 - PROP. GRATE INLET
 - PROP. AREA INLET

- SPOT ELEVATION KEY**
- CS 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
 - FFE FINISHED FLOOR ELEVATION
 - FG FINISHED GRADE

- NOTE:**
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CAVALIER DRIVE

BUILDING 6
HIGH SCHOOL

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

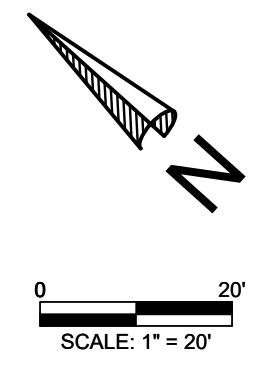
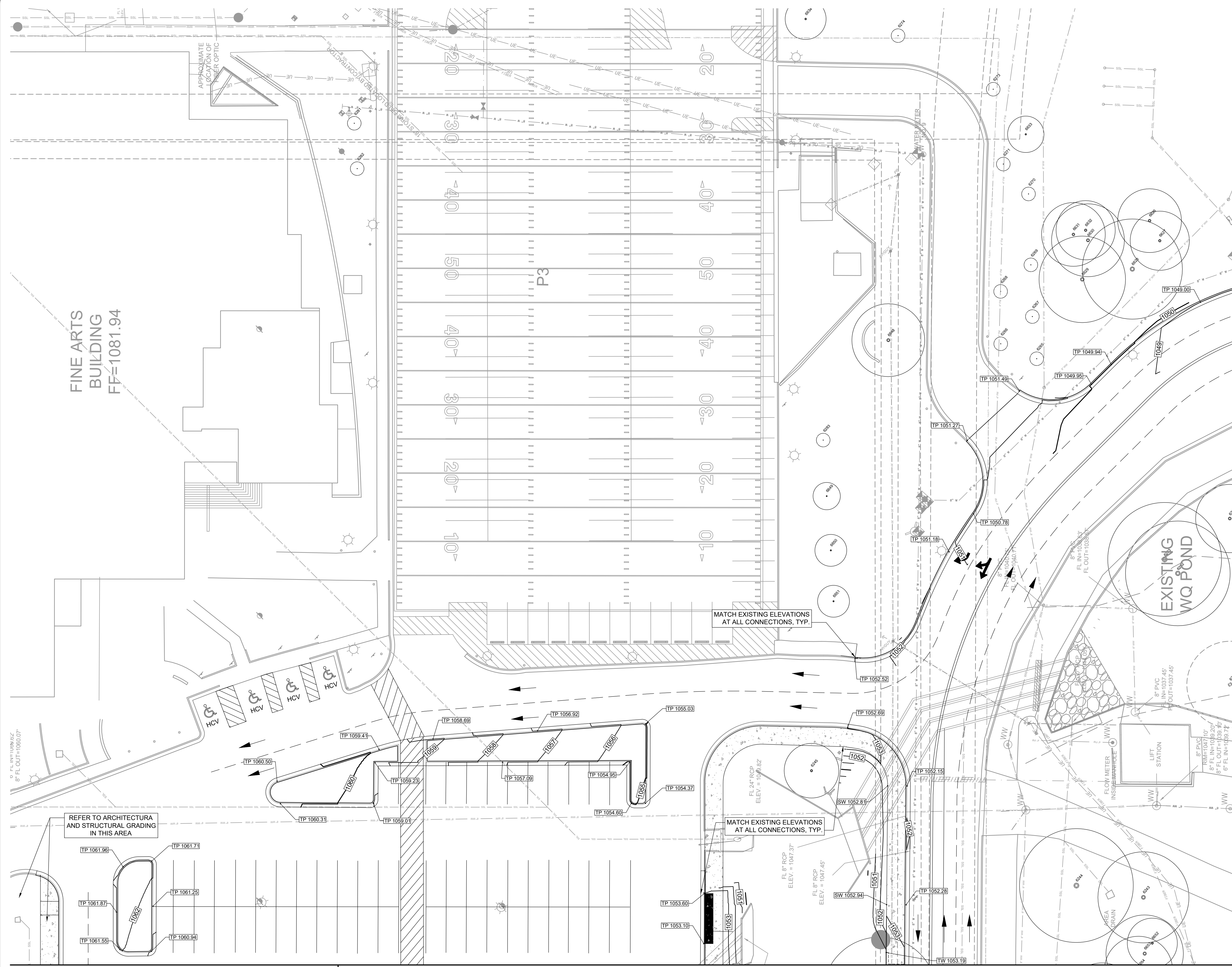
PARKING LOT GRADING

MALONE WHEELER
INC. 1976
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

DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

FLUTSD OVERALLPROJECTS02-060-AUS-LTHS 020DRAWINGSPLANSET125 GRADING PLAN DWG. 11/22/2023, ANTHONY VINCENT



- LEGEND**
- BOUNDARY LINE
 - - - - EXIST. GROUND CONTOUR
 - 350 --- PROP. GROUND CONTOUR
 - 930.00 X PROP. SPOT ELEVATION
 - PROP. GROUND CONTOUR
 - PROP. CENTER LINE
 - PROP. SIDEWALK
 - PROP. FIRE LANE
 - PROP. METAL FENCE
 - PROP. CURB AND GUTTER
 - PROP. SPILL CURB
 - PROP. RIBBON CURB
 - PROP. CONCRETE
 - PROP. STORM SEWER
 - PROP. WATER LINE
 - PROP. FORCE MAIN LINE
 - PROP. WASTEWATER LINE
 - PROP. LIGHT POLE
 - PROP. STORM INLET
 - PROP. STORM MANHOLE
 - ▣ PROP. SLOTTED DRAIN
 - PROP. GRATE INLET
 - PROP. AREA INLET

- SPOT ELEVATION KEY**
- CS 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
 - FFE FINISHED FLOOR ELEVATION
 - FG FINISHED GRADE

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 - ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [ANSI 403.3]

MATCH LINE SHEET 31

MATCH EXISTING ELEVATIONS AT ALL CONNECTIONS, TYP.

MATCH EXISTING ELEVATIONS AT ALL CONNECTIONS, TYP.

REFER TO ARCHITECTURE AND STRUCTURAL GRADING IN THIS AREA

MATCH LINE SHEET 28

MATCH LINE SHEET 29

NO.	DATE	REVISION	BY

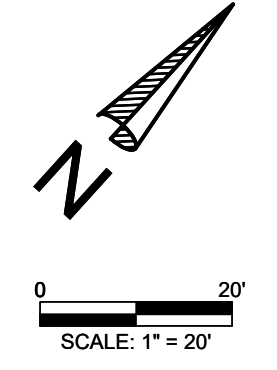
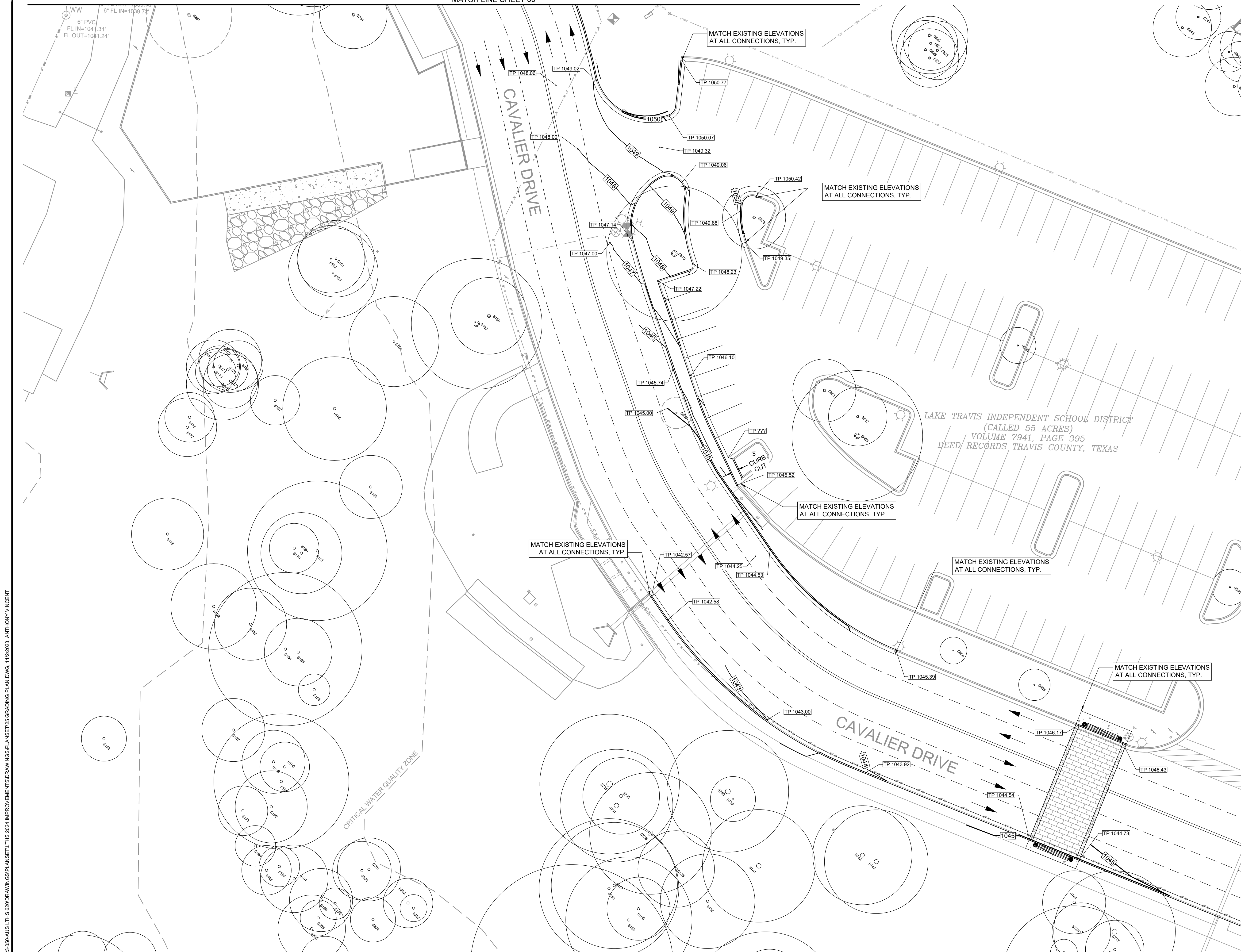
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE GRADING

MALONE WHEELER
INC. SINCE 1975

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

DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023



LEGEND

---	BOUNDARY LINE
---	EXIST. GROUND CONTOUR
---	PROP. GROUND CONTOUR
---	PROP. SPOT ELEVATION
---	PROP. GROUND CONTOUR
---	PROP. CENTER LINE
---	PROP. SIDEWALK
---	PROP. FIRE LANE
---	PROP. METAL FENCE
---	PROP. CURB AND GUTTER
---	PROP. SPILL CURB
---	PROP. RIBBON CURB
---	PROP. CONCRETE
---	PROP. STORM SEWER
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---	PROP. LIGHT POLE
---	PROP. STORM INLET
---	PROP. STORM MANHOLE
---	PROP. SLOTTED DRAIN
---	PROP. GRATE INLET
---	PROP. AREA INLET

SPOT ELEVATION KEY

CS	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
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE

NOTE:

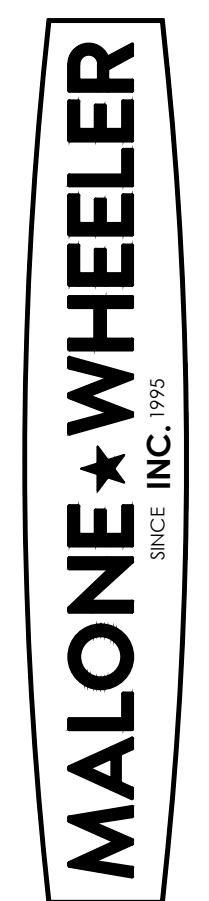
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MATCH LINE SHEET 32

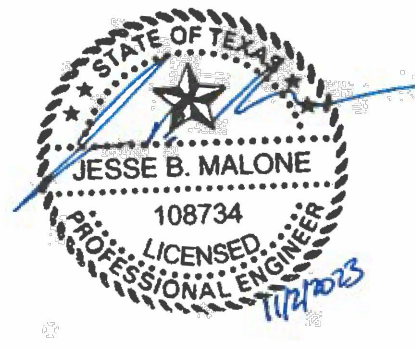
BY	
REVISION	
DATE	
NO.	

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE GRADING



5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
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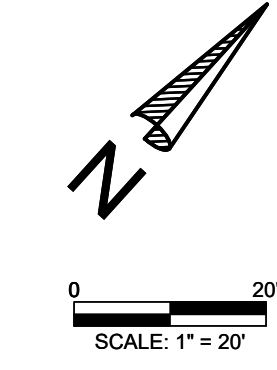
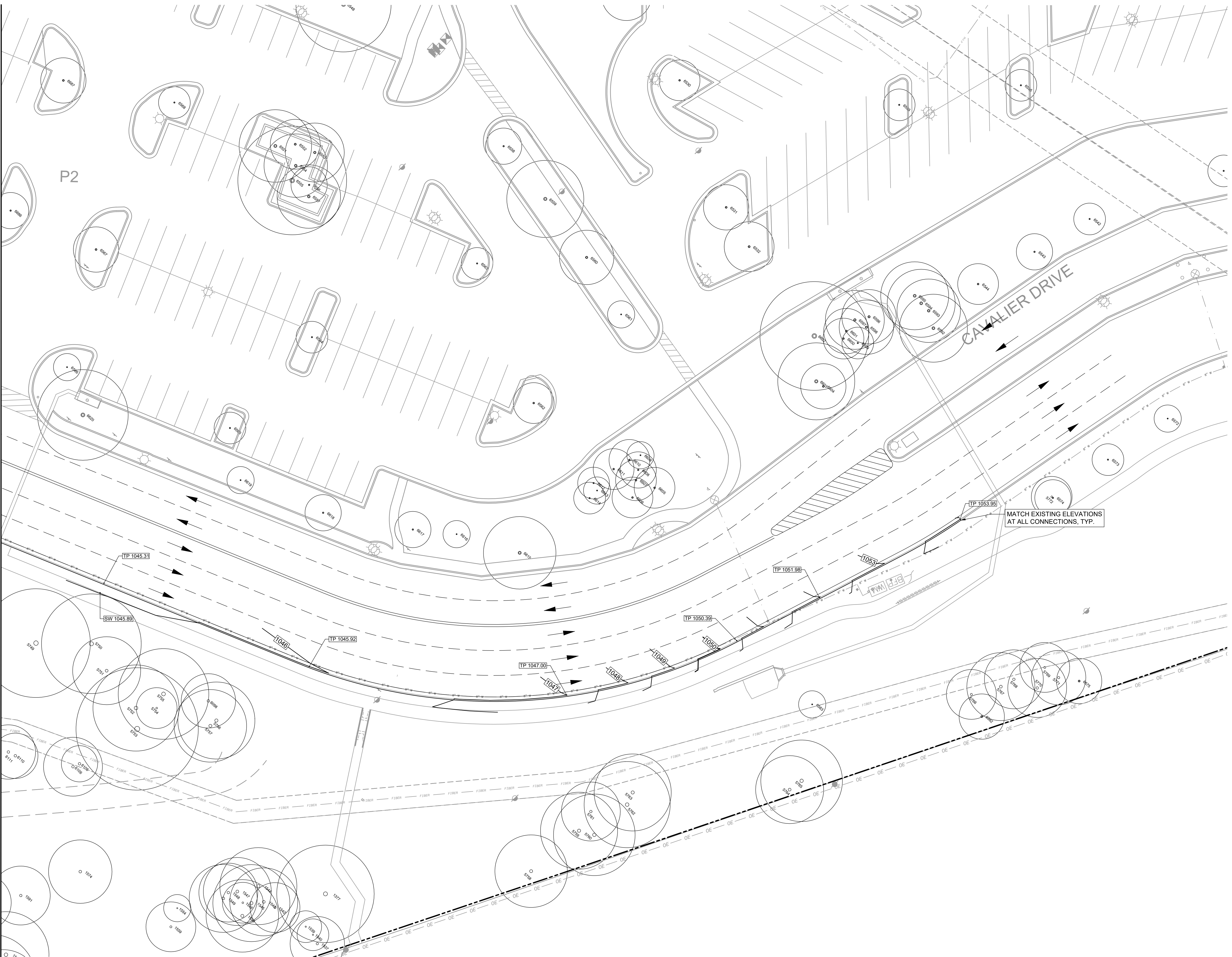


DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD\OVERALL\PROJECTS\2024-AUS-LTHS\2024-DRAWINGS\PLANS\2024 GRADING PLAN.DWG, 11/2/2023, ANTHONY VINCENT

F:\UTISD_OVERALL\PROJECTS\093-060-AUS LTHS 620\DRAWINGS\PLANS\SET\125 GRADING PLAN.DWG, 11/22/2023, ANTHONY VINCENT

MATCH LINE SHEET 31



LEGEND

---	BOUNDARY LINE
--- 350 ---	EXIST. GROUND CONTOUR
--- 930.00 X ---	PROP. GROUND CONTOUR
---	PROP. SPOT ELEVATION
- - - -	PROP. GROUND CONTOUR
---	PROP. CENTER LINE
---	PROP. SIDEWALK
---	PROP. FIRE LANE
---	PROP. METAL FENCE
---	PROP. CURB AND GUTTER
---	PROP. SPILL CURB
---	PROP. RIBBON CURB
---	PROP. CONCRETE
---	PROP. STORM SEWER
---	PROP. WATER LINE
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---	PROP. LIGHT POLE
---	PROP. STORM INLET
---	PROP. STORM MANHOLE
---	PROP. SLOTTED DRAIN
---	PROP. GRATE INLET
---	PROP. AREA INLET

SPOT ELEVATION KEY

CS	CONCRETE SURFACE
TP	TOP OF PAVEMENT
SW	TOP OF SIDEWALK
TW	TOP OF WALL
BW	BOTTOM OF WALL
HP	HIGH POINT
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FG	FINISHED GRADE

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NO.	DATE	REVISION	BY

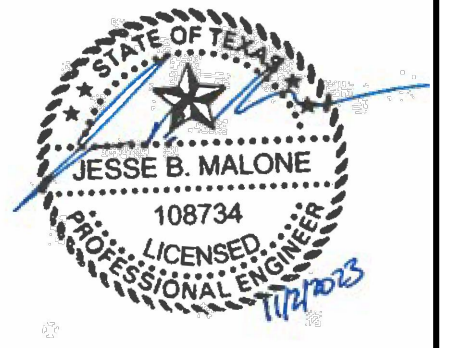
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE GRADING

MALONE WHEELER
INC. SINCE 1975

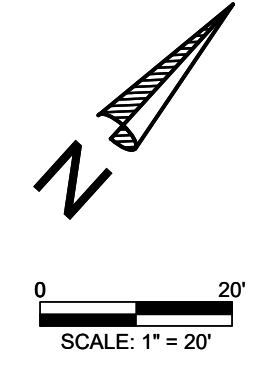
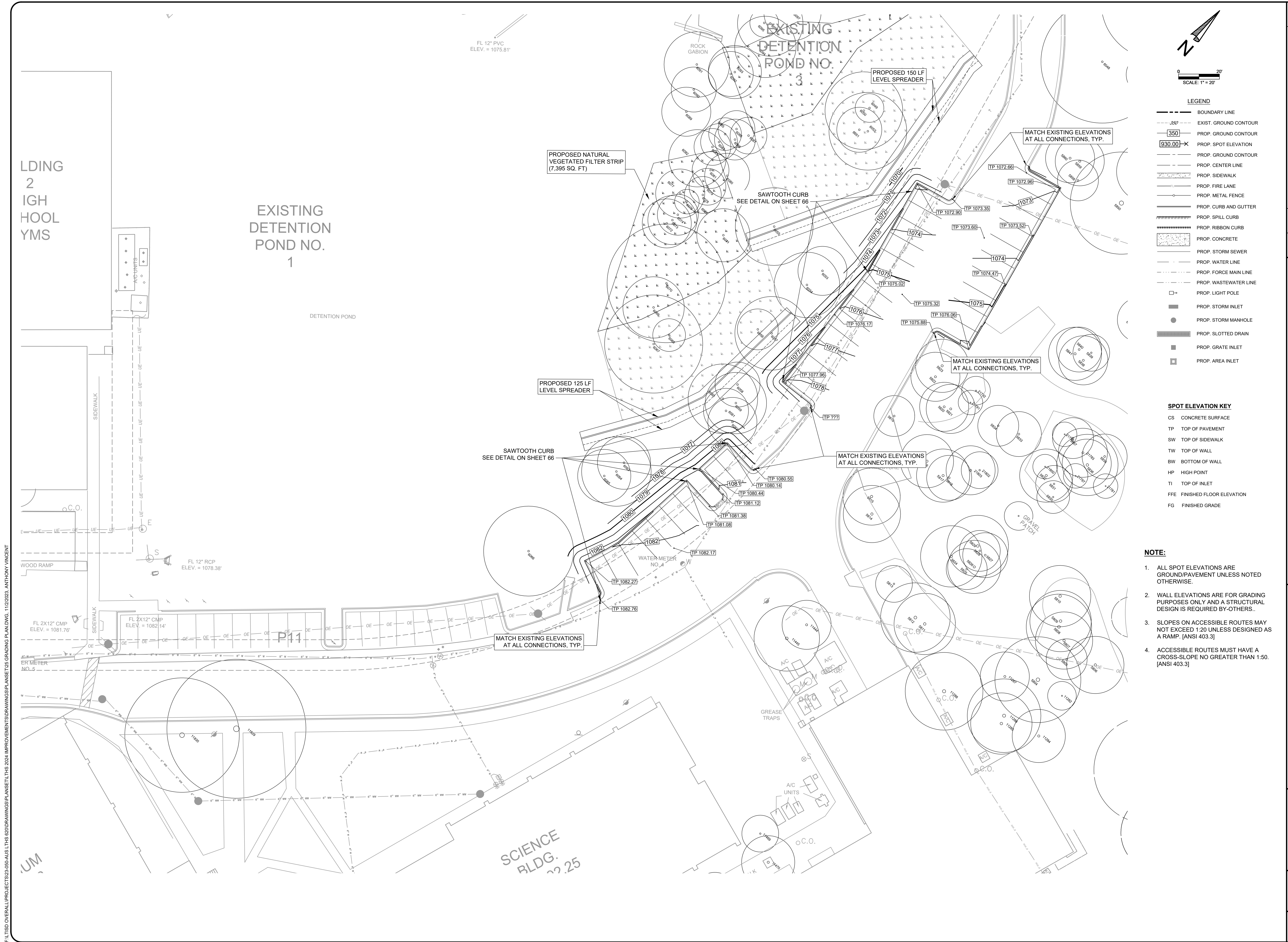
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

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



DESIGN BY :	SGC
CHECKED BY :	AV
APPROVED BY :	JBM
DATE :	11/22/2023

SHEET 32
OF 69



LEGEND

(---)	BOUNDARY LINE
(---)	EXIST. GROUND CONTOUR
(---)	PROP. GROUND CONTOUR
(---)	PROP. SPOT ELEVATION
(---)	PROP. GROUND CONTOUR
(---)	PROP. CENTER LINE
(---)	PROP. SIDEWALK
(---)	PROP. FIRE LANE
(---)	PROP. METAL FENCE
(---)	PROP. CURB AND GUTTER
(---)	PROP. SPILL CURB
(---)	PROP. RIBBON CURB
(---)	PROP. CONCRETE
(---)	PROP. STORM SEWER
(---)	PROP. WATER LINE
(---)	PROP. FORCE MAIN LINE
(---)	PROP. WASTEWATER LINE
(---)	PROP. LIGHT POLE
(---)	PROP. STORM INLET
(---)	PROP. STORM MANHOLE
(---)	PROP. SLOTTED DRAIN
(---)	PROP. GRATE INLET
(---)	PROP. AREA INLET

SPOT ELEVATION KEY

CS	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
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE

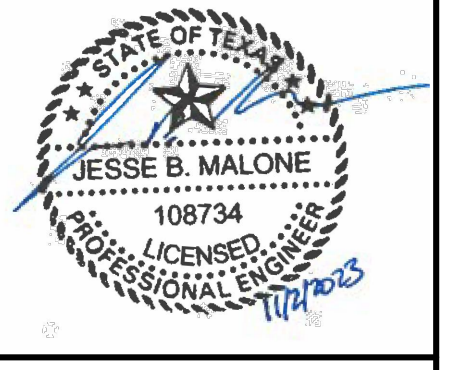
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 4. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [ANSI 403.3]

BY	
DATE	
NO.	
REVISION	

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
BUS LOOP GRADING

MALONE WHEELER
INC. 1976
SINCE 1976

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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DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\ULTSD-OVERALL\PROJECTS\2024-AUS-LTHS 2024 IMPROVEMENTS\DRAWINGS\PLANS\SET1\4 PRE-DEVELOPED DRAINAGE AREAS.DWG. 11/22/2023, ANTHONY VINCENT

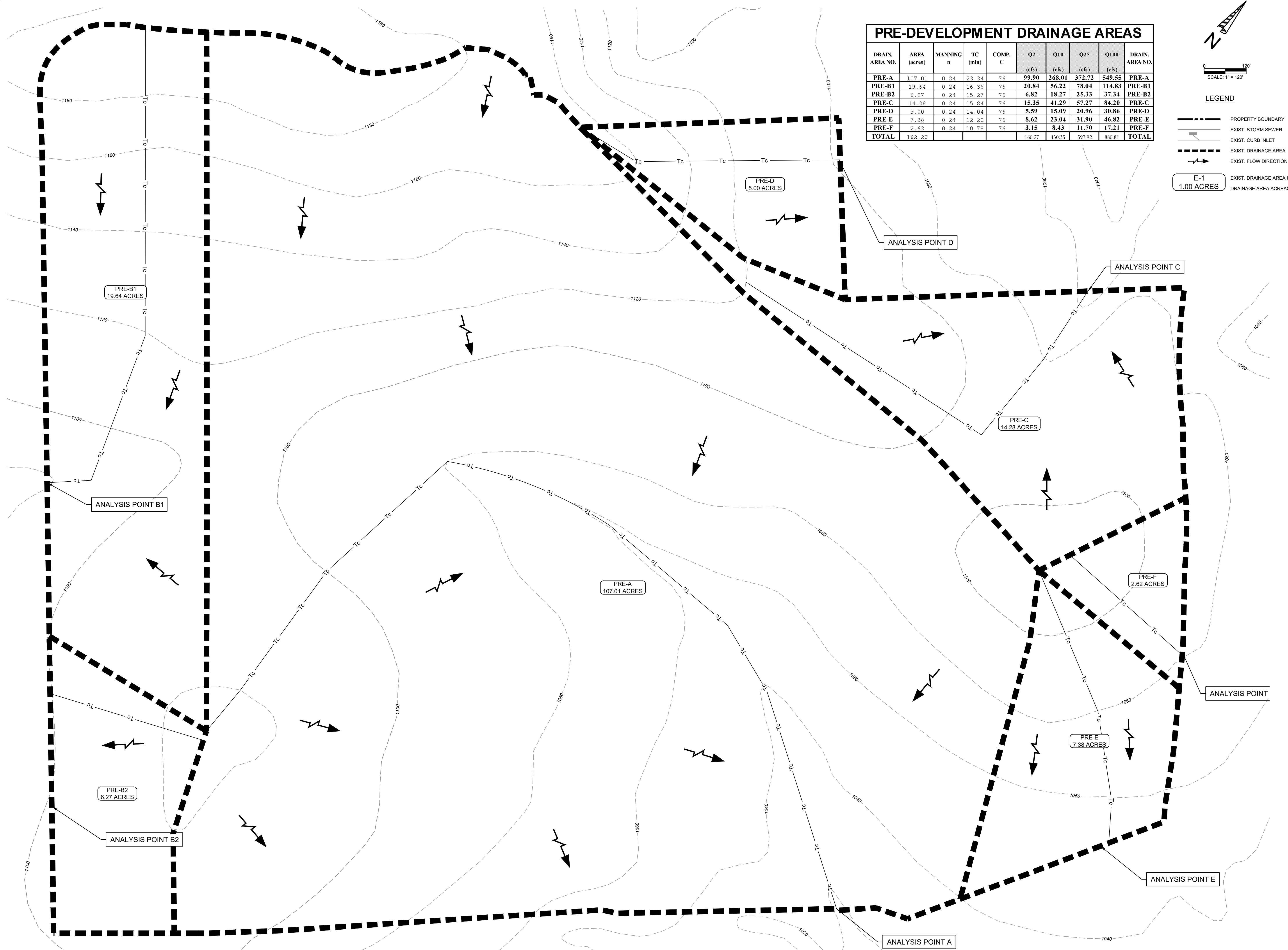
PRE-DEVELOPMENT DRAINAGE AREAS									
DRAIN. AREA NO.	AREA (acres)	MANNING n	TC (min)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
PRE-A	107.01	0.24	23.34	76	99.90	268.01	372.72	549.55	PRE-A
PRE-B1	19.64	0.24	16.36	76	20.84	56.22	78.04	114.83	PRE-B1
PRE-B2	6.27	0.24	15.27	76	6.82	18.27	25.33	37.34	PRE-B2
PRE-C	14.28	0.24	15.84	76	15.35	41.29	57.27	84.20	PRE-C
PRE-D	5.00	0.24	14.04	76	5.59	15.09	20.96	30.86	PRE-D
PRE-E	7.38	0.24	12.20	76	8.62	23.04	31.90	46.82	PRE-E
PRE-F	2.62	0.24	10.78	76	3.15	8.43	11.70	17.21	PRE-F
TOTAL	162.20				160.27	430.35	597.92	880.81	TOTAL

0 120'

SCALE: 1" = 120'

LEGEND

- PROPERTY BOUNDARY
- EXIST. STORM SEWER
- EXIST. CURB INLET
- EXIST. DRAINAGE AREA
- EXIST. FLOW DIRECTION
- EXIST. DRAINAGE AREA ID
- DRAINAGE AREA ACREAGE



NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

PRE-DEVELOPED DRAINAGE AREAS

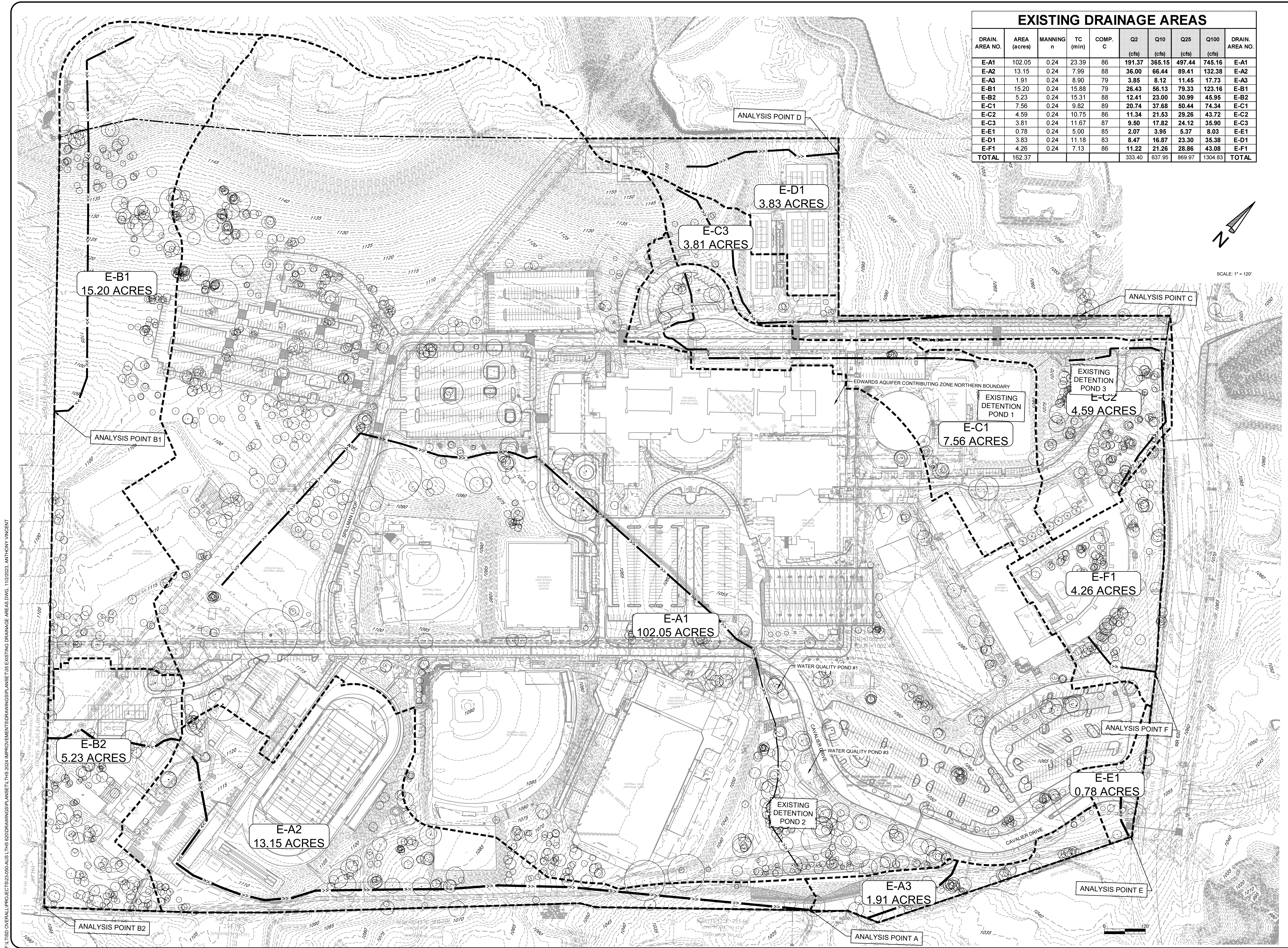
MALONE WHEELER
INC. SINCE 1976

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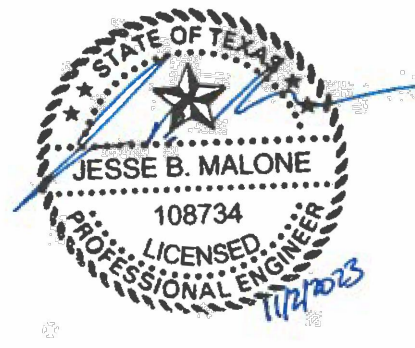
EXISTING DRAINAGE AREAS										
DRAIN. AREA NO.	AREA (acres)	MANNING n	TC (min)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.	
E-A1	102.05	0.24	23.39	86	191.37	365.15	497.44	745.16	E-A1	
E-A2	13.15	0.24	7.99	88	36.00	66.44	89.41	132.38	E-A2	
E-A3	1.91	0.24	8.90	79	3.85	8.12	11.45	17.73	E-A3	
E-B1	15.20	0.24	15.88	79	26.43	56.13	79.33	123.16	E-B1	
E-B2	5.23	0.24	15.31	88	12.41	23.00	30.99	45.95	E-B2	
E-C1	7.56	0.24	9.82	89	20.74	37.68	50.44	74.34	E-C1	
E-C2	4.59	0.24	10.75	86	11.34	21.53	29.26	43.72	E-C2	
E-C3	3.81	0.24	11.67	87	9.50	17.82	24.12	35.90	E-C3	
E-D1	0.78	0.24	5.00	85	2.07	3.95	5.37	8.03	E-D1	
E-E1	3.83	0.24	11.18	83	8.47	16.87	23.30	35.38	E-E1	
E-F1	4.26	0.24	7.13	86	11.22	21.26	28.86	43.08	E-F1	
TOTAL	162.37				333.40	637.95	869.97	1304.83	TOTAL	

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

EXISTING DRAINAGE AREAS

MALONE WHEELER
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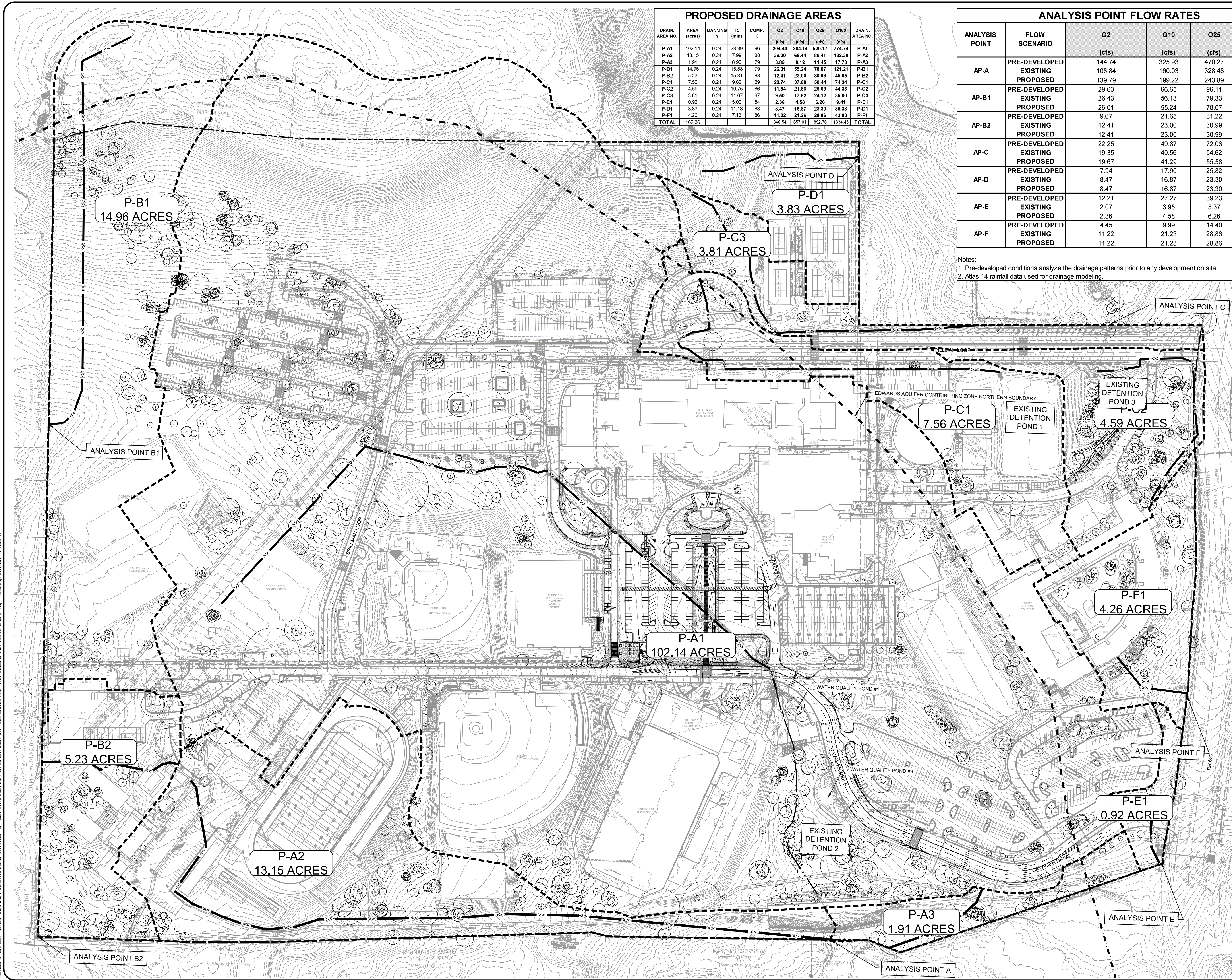
DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

SHEET 35
OF 69

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	204.44	384.14	520.17	774.74	P-A1	
P-A2	13.15	0.24	7.99	86	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-B1	14.96	0.24	15.88	79	28.01	55.24	78.07	121.21	P-B1	
P-B2	5.23	0.24	15.31	88	12.41	23.00	30.99	45.95	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	11.54	21.86	29.69	44.33	P-C2	
P-C3	3.81	0.24	11.67	87	9.50	17.82	24.12	36.90	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	162.36				346.54	657.01	892.76	1334.45	TOTAL	

ANALYSIS POINT FLOW RATES					
ANALYSIS POINT	FLOW SCENARIO	Q2	Q10	Q25	Q100
		(cfs)	(cfs)	(cfs)	(cfs)
AP-A	PRE-DEVELOPED	144.74	325.93	470.27	747.90
	EXISTING	108.84	160.03	328.48	757.53
AP-B1	PRE-DEVELOPED	139.79	199.22	243.89	710.46
	EXISTING	29.63	66.65	96.11	152.25
AP-B2	PRE-DEVELOPED	26.43	56.13	79.33	123.16
	EXISTING	26.01	55.24	78.07	121.21
AP-C	PRE-DEVELOPED	9.67	21.65	31.22	49.59
	EXISTING	12.41	23.00	30.99	45.95
AP-D	PRE-DEVELOPED	12.41	23.00	30.99	45.95
	EXISTING	22.25	49.87	72.06	114.39
AP-E	PRE-DEVELOPED	19.35	40.56	54.62	123.40
	EXISTING	19.67	41.29	55.58	111.10
AP-F	PRE-DEVELOPED	7.94	17.90	25.82	40.93
	EXISTING	8.47	16.87	23.30	35.38
AP-F	PRE-DEVELOPED	8.47	16.87	23.30	35.38
	EXISTING	12.21	27.27	39.23	62.03
AP-F	PRE-DEVELOPED	2.07	3.95	5.37	8.03
	EXISTING	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
AP-F	PRE-DEVELOPED	11.22	21.23	28.86	43.08
	EXISTING	11.22	21.23	28.86	43.08

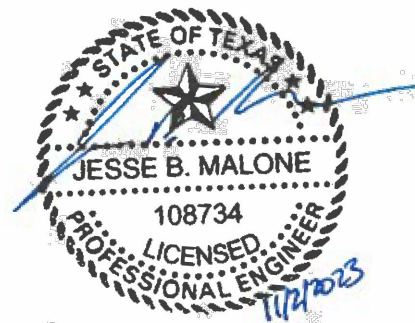
Notes:
 1. Pre-developed conditions analyze the drainage patterns prior to any development on site.
 2. Atlas 14 rainfall data used for drainage modeling.



LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
 3324 RANCH ROAD 620 SOUTH

PROPOSED DRAINAGE AREAS

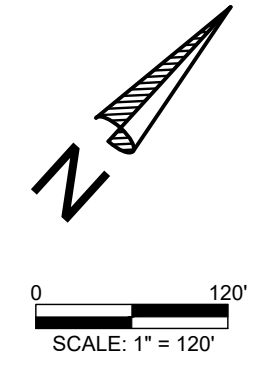
MALONE WHEELER
 INC. 1976
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786



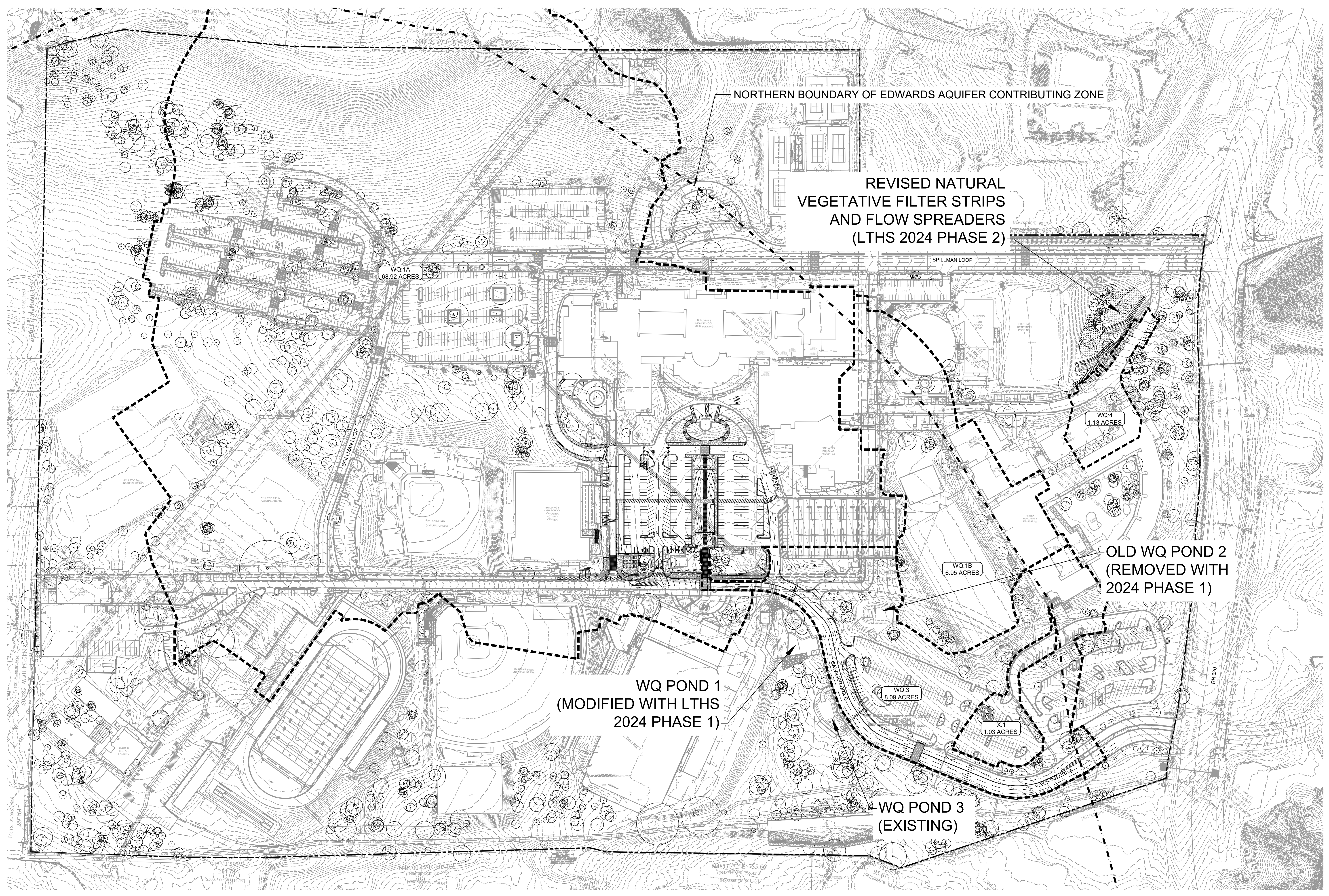
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 CHECKED BY: JBM
 APPROVED BY: JBM
 DATE: 11/2/2023

SHEET 36
 OF 69

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NORTHERN BOUNDARY OF EDWARDS AQUIFER CONTRIBUTING ZONE

REVISED NATURAL VEGETATIVE FILTER STRIPS AND FLOW SPREADERS (LTHS 2024 PHASE 2)

WQ-1A
68.92 ACRES

WQ-4
1.13 ACRES

WQ-1B
6.95 ACRES

OLD WQ POND 2
(REMOVED WITH 2024 PHASE 1)

WQ POND 1
(MODIFIED WITH LTHS 2024 PHASE 1)

WQ-3
8.09 ACRES

X-1
1.03 ACRES

WQ POND 3
(EXISTING)

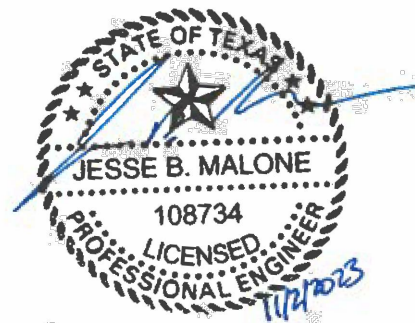
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

PROPOSED WATER QUALITY DRAINAGE AREAS

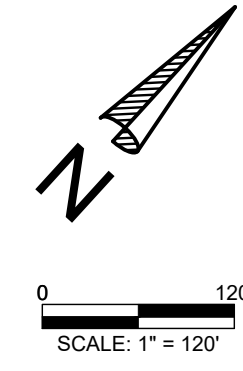
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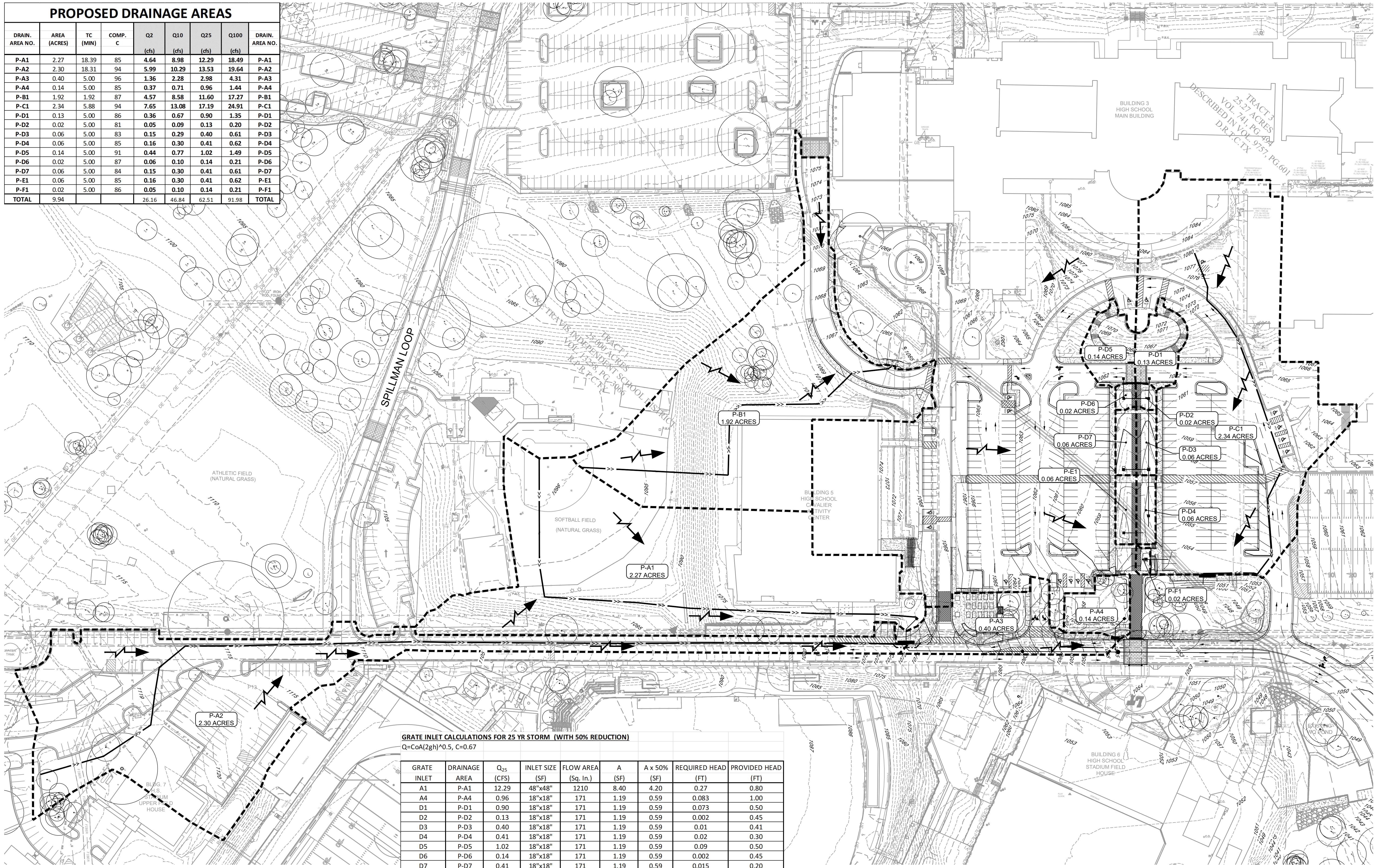
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OF 69



PROPOSED DRAINAGE AREAS

DRAIN. AREA NO.	AREA (ACRES)	TC (MIN)	COMP. C	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)	DRAIN. AREA NO.
P-A1	2.27	18.39	85	4.64	8.98	12.29	18.49	P-A1
P-A2	2.30	18.31	94	5.99	10.29	13.53	19.64	P-A2
P-A3	0.40	5.00	96	1.36	2.28	2.98	4.31	P-A3
P-A4	0.14	5.00	85	0.37	0.71	0.96	1.44	P-A4
P-B1	1.92	1.92	87	4.57	8.58	11.60	17.27	P-B1
P-C1	2.34	5.88	94	7.65	13.08	17.19	24.91	P-C1
P-D1	0.13	5.00	86	0.36	0.67	0.90	1.35	P-D1
P-D2	0.02	5.00	81	0.05	0.09	0.13	0.20	P-D2
P-D3	0.06	5.00	83	0.15	0.29	0.40	0.61	P-D3
P-D4	0.06	5.00	85	0.16	0.30	0.41	0.62	P-D4
P-D5	0.14	5.00	91	0.44	0.77	1.02	1.49	P-D5
P-D6	0.02	5.00	87	0.06	0.10	0.14	0.21	P-D6
P-D7	0.06	5.00	84	0.15	0.30	0.41	0.61	P-D7
P-E1	0.06	5.00	85	0.16	0.30	0.41	0.62	P-E1
P-F1	0.02	5.00	86	0.05	0.10	0.14	0.21	P-F1
TOTAL	9.94			26.16	46.84	62.51	91.98	TOTAL



GRATE INLET CALCULATIONS FOR 25 YR STORM (WITH 50% REDUCTION)

$Q = CoA(2gh)^{0.5}$, $C = 0.67$

GRATE INLET	DRAINAGE AREA	Q ₂₅ (CFS)	INLET SIZE (SF)	FLOW AREA (Sq. In.)	A (SF)	A x 50% (SF)	REQUIRED HEAD (FT)	PROVIDED HEAD (FT)
A1	P-A1	12.29	48"x48"	1210	8.40	4.20	0.27	0.80
A4	P-A4	0.96	18"x18"	171	1.19	0.59	0.083	1.00
D1	P-D1	0.90	18"x18"	171	1.19	0.59	0.073	0.50
D2	P-D2	0.13	18"x18"	171	1.19	0.59	0.002	0.45
D3	P-D3	0.40	18"x18"	171	1.19	0.59	0.01	0.41
D4	P-D4	0.41	18"x18"	171	1.19	0.59	0.02	0.30
D5	P-D5	1.02	18"x18"	171	1.19	0.59	0.09	0.50
D6	P-D6	0.14	18"x18"	171	1.19	0.59	0.002	0.45
D7	P-D7	0.41	18"x18"	171	1.19	0.59	0.015	0.20
E1	P-E1	0.41	18"x18"	171	1.19	0.59	0.015	0.50
F1	P-F1	0.14	18"x18"	171	1.19	0.59	0.002	0.75

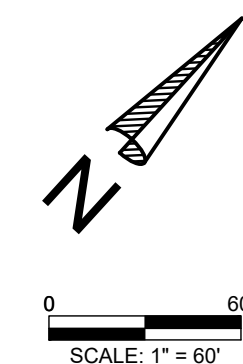
* Use East Jordan Iron Works V-5700 series or approved equal.

INLETS FOR LAKE TRAVIS HIGH SCHOOL 2024 PARKING LOT - 25 YR

INLET NUMBER	CONTRIB DRAINAGE AREA NO.	Q (CFS)	Q PASS (CFS)	FROM INLET	Qa (CFS)	LONGITUDINAL ROAD SLOPE (S)	PAVEMENT CROSS SLOPE (Sx)	GUTTER CROSS SLOPE (Sf)	GUTTER WIDTH (W)	INLET DEPRESSION (a)	S'w (FT/FT)	Sw/Sx	W/T	Eo	Se (FT/FT)	Yo (FT)	PONDED		EFFICIENCY	INLET CHECK	Qi (CFS)	Q bypass (CFS)	REMARKS	
																	WIDTH (FT)	Lt (FT)						
I-A2	P-A2	13.53	0.00	-	13.53	0.057	0.016	0.06	1.50	6.50	0.36	3.47	0.16	0.45	0.18	0.34	9.43	26.50	20	0.920	0	12.45	1.08	G-1
I-A3	P-A3	2.98	0.00	-	2.98	0.063	0.016	0.06	1.50	6.50	0.36	3.47	0.29	0.73	0.28	0.19	5.25	SUMP	10	SUMP	SUMP	2.98	0.00	S-1
I-C1	P-C1	17.19	0.00	-	17.19	0.036	0.005	0.06	1.50	6.50	0.36	11.10	0.13	0.54	0.20	0.40	11.24	SUMP	20	SUMP	SUMP	17.19	0.00	S-1

LEGEND

- PROPERTY BOUNDARY
- PROP. STORM SEWER
- PROP. CURB INLET
- TIME OF CONCENTRATION
- PROP. DRAINAGE AREA
- PROP. FLOW DIRECTION
- A-1 PROP. DRAINAGE AREA ID
- 1.00 ACRES DRAINAGE AREA ACREAGE

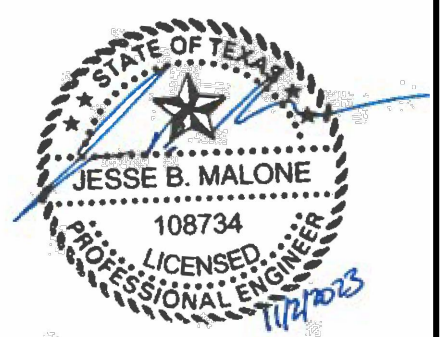


LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

SITE DRAINAGE AREAS

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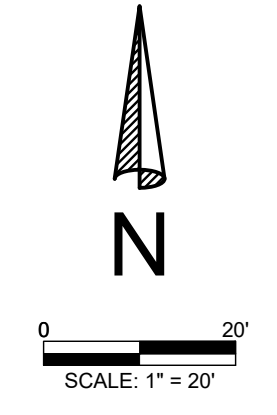
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F:\UTSD\OVERALL\PROJECTS\2024-AUS-LTHS\2024-DRAWINGS\PLANS\SET138 SITE DRAINAGE AREAS.DWG, 11/2/2023, ANTHONY VINCENT



DETENTION POND 1 STAGE-STORAGE-DISCHARGE			
STORM EVENT	MAX. POND WSE (FT)	PEAK DISCHARGE (CFS)	MAX. POND STORAGE (CU-FT)
2-YEAR	1,079.08	1.47	44,688
10-YEAR	1,080.05	3.29	87,856
25-YEAR	1,080.36	13.85	102,311
100-YEAR	1,080.88	42.55	126,869

**LCRA HIGHLAND LAKES WATERSHED
WATER QUALITY ANALYSIS**

SITE DATA

Proposed BMP	Natural Vegetated Filter Strips
Drainage Area to Control	WQ4
Developed Acres to BMP	1.13
2019 Prop. Impervious Cover within LCRA's Jurisdiction	0.35
2024 Prop. Impervious Cover within LCRA's Jurisdiction	0.13
Required Impervious Cover to be Treated within LCRA's Jurisdiction	0.48
Impervious Cover to be Treated (Ac.)	0.87
% of Contributing Drainage Area	77%
Runoff Volume (in)	1.41
WQV (cf)	5784

Required VFS Acres per LCRA Nonpoint Source Pollution Control Technical	
Contributing DA (Ac)	1.13
Runoff Volume (in)	1.41
WQV (cf)	5,784
Required Filter Strip Area (SF)	13,129
Required Filter Strip Area (Ac)	0.301
Provided Filter Strip Area (SF)	14,923

- LEVEL SPREADER NOTES:**
- INSTALLATION:**
- LEVEL SPREADERS SHOULD BE CONSTRUCTED ON UNDISTURBED SOIL (NOT FILL MATERIAL)
 - THE ENTRANCE TO THE SPREADER SHOULD BE SHAPED IN SUCH A MANNER AS TO INSURE THAT RUNOFF ENTERS DIRECTLY ONTO THE 0% GRADE CHANNEL
 - CONSTRUCT A TRANSITION SECTION FROM THE DIVERSION CHANNEL TO BLEND SMOOTHLY TO THE WIDTH AND DEPTH OF THE SPREADER.
 - THE LEVEL LIP SHOULD BE CONSTRUCTED AT 0% GRADE TO INSURE UNIFORM SPREADING OF STORMWATER RUNOFF.
 - IMMEDIATELY AFTER ITS CONSTRUCTION, ESTABLISH VEGETATION ALONG THE ENTIRE DISTURBED AREA OF THE SPREADER. A VEGETATIVE COVER DENSITY OF 80% WITH NO LARGE BARE AREAS IS REQUIRED.
 - LEVEL SPREADER TO BE STAKED ALONG A CONTOUR PRIOR TO CONSTRUCTION
- INSPECTION AND MAINTENANCE GUIDELINES:**
- THE LEVEL SPREADER SHOULD BE INSPECTED ANNUALLY AND REPAIRS MADE, IF REQUIRED.
 - LEVEL SPREADER LIP SHOULD REMAIN AT 0% SLOPE TO ALLOW PROPER FUNCTION OF MEASURE.
 - THE CONTRACTOR SHOULD AVOID THE PLACEMENT OF ANY MATERIAL ON AND PREVENT CONSTRUCTION TRAFFIC ACROSS THE STRUCTURE. IF THE MEASURE IS DAMAGED BY CONSTRUCTION TRAFFIC, IT SHOULD BE REPAIRED IMMEDIATELY.

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

DETENTION POND 1 & VFS MODIFICATIONS

MALONE WHEELER
INC. 1975

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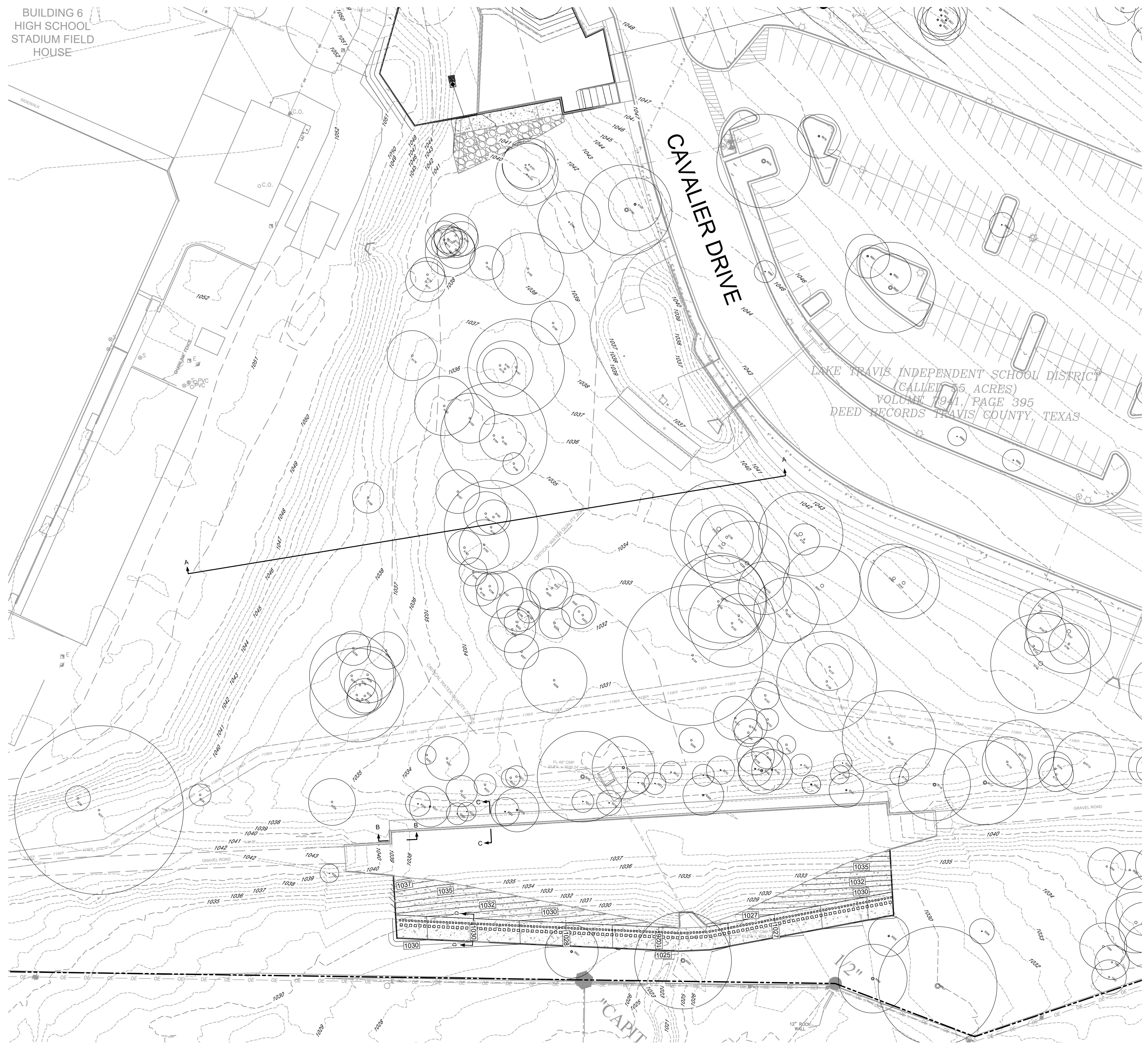
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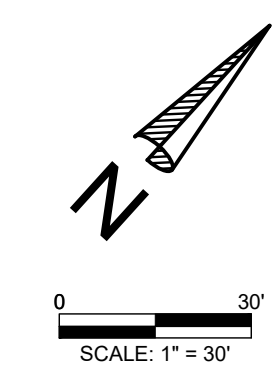
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BUILDING 6
HIGH SCHOOL
STADIUM FIELD
HOUSE

CAVALIER DRIVE

LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT
(CALLED 55 ACRES)
VOLUME 7941, PAGE 395
DEED RECORDS TRAVIS COUNTY, TEXAS



- LEGEND**
- PROPERTY BOUNDARY
 - - - - - EXIST. GROUND CONTOUR
 - 940 --- PROP. FINISHED CONTOUR
 - FG 100.00 - X PROP. SPOT ELEVATION
 - PROP. CURB
 - PROP. SIDEWALK
 - PROP. BUILDING SETBACK
 - PROP. EASEMENT
 - PROP. HANDRAIL / FENCE
 - PROP. RETAINING WALL
 - PROP. STORM SEWER
 - PROP. STORM SEWER MANHOLE
 - PROP. GRATE INLET
 - ▽ PROP. HEADWALL

DETENTION POND 2 STAGE-STORAGE-DISCHARGE			
STORM EVENT	MAX. POND WSE (FT)	PEAK DISCHARGE (CFS)	MAX. POND STORAGE (CU-FT)
2-YEAR	1,035.82	127.55	154,392
10-YEAR	1,039.04	172.36	423,890
25-YEAR	1,040.98	194.37	673,318
100-YEAR	1,041.83	652.91	797,447

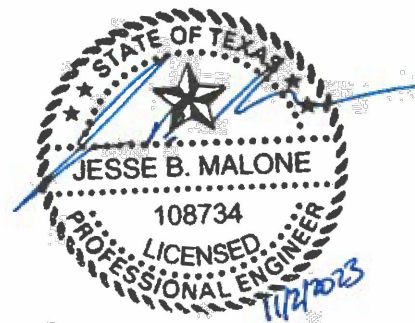
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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

DETENTION POND 2 MODIFICATIONS PLAN

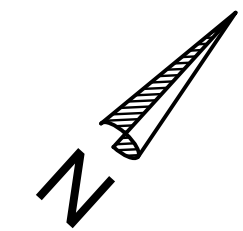
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INC. SINCE 1975

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Phone: (512) 899-0601 Fax: (512) 899-0655
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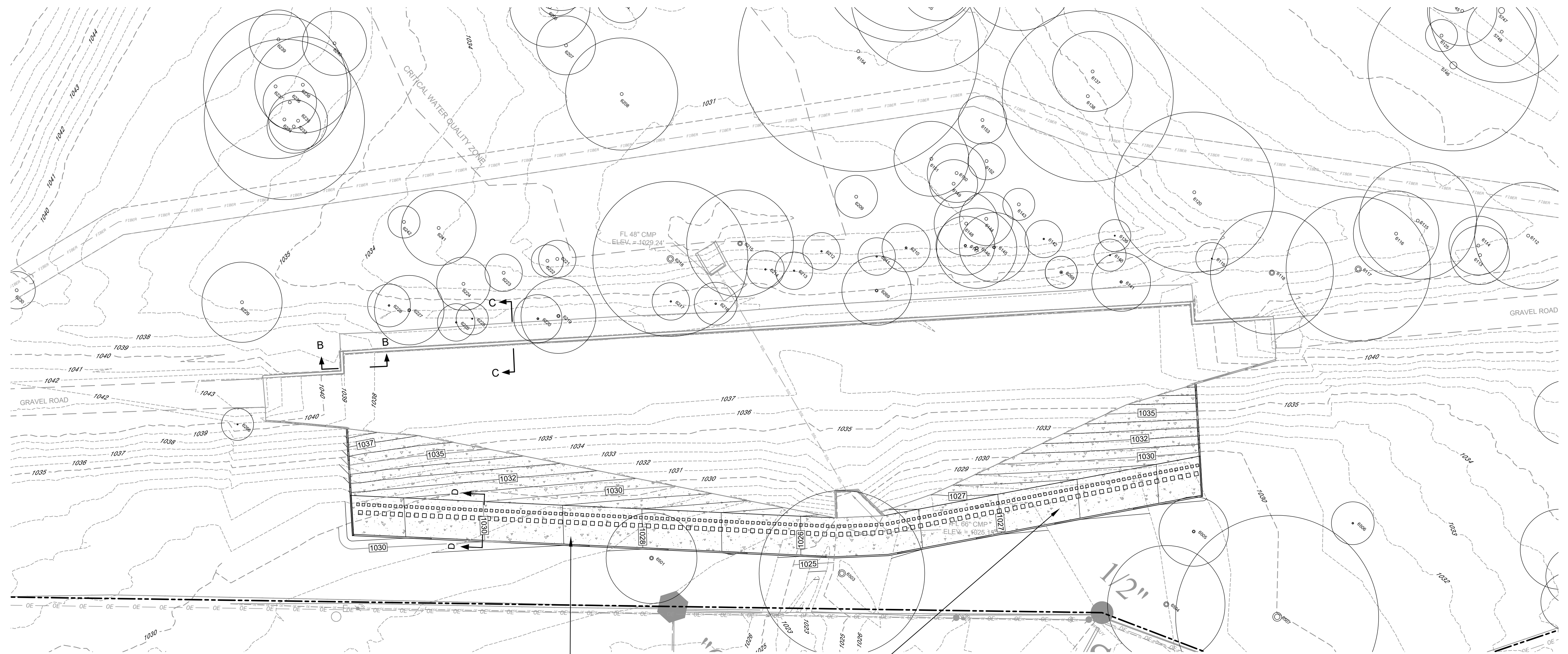
SHEET 40
OF 69



SCALE: 1" = 20'

LEGEND

- PROPERTY BOUNDARY
- EXIST. GROUND CONTOUR
- PROP. FINISHED CONTOUR
- FG 100.00 PROP. SPOT ELEVATION
- PROP. CURB
- PROP. SIDEWALK
- PROP. BUILDING SETBACK
- PROP. EASEMENT
- PROP. HANDRAIL / FENCE
- PROP. RETAINING WALL
- PROP. STORM SEWER
- PROP. STORM SEWER MANHOLE
- PROP. GRATE INLET
- PROP. HEADWALL



DETENTION POND 2
MODIFICATIONS INCLUDED IN
LTHS 2024 PHASE 1
IMPROVEMENTS

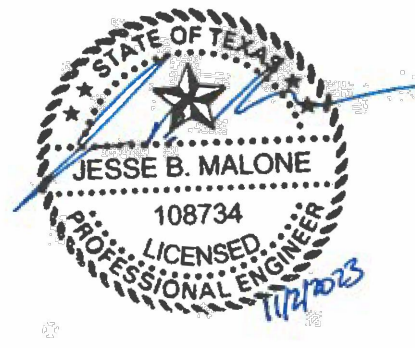
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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

DETENTION POND 2 WEIR MODIFICATIONS

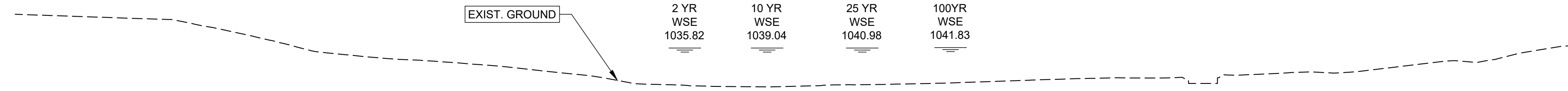
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INC.

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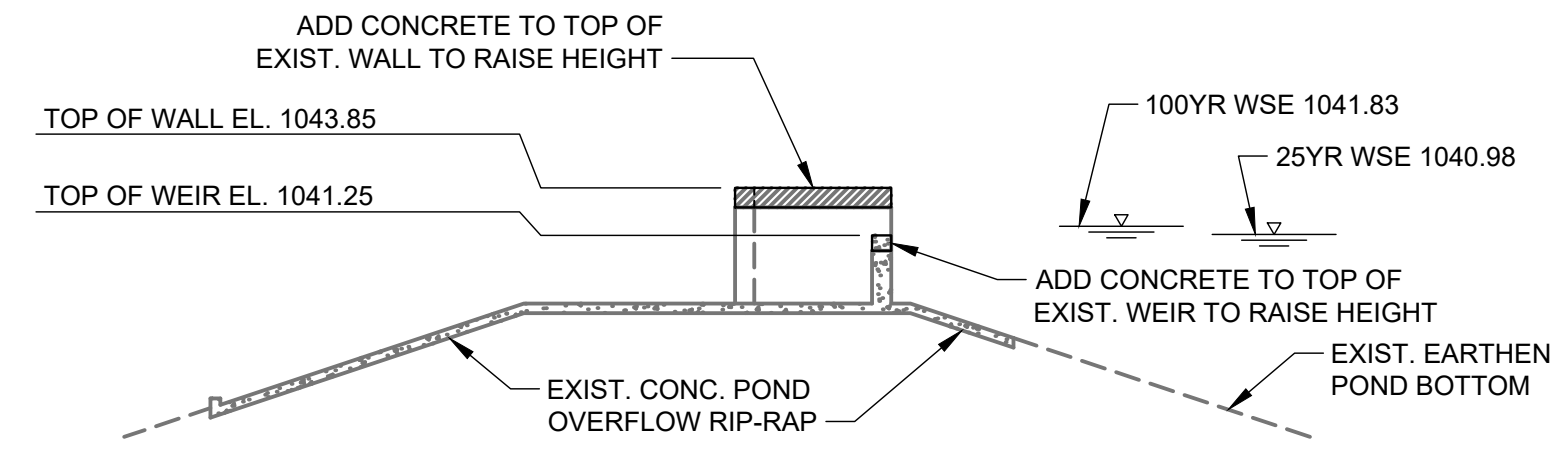


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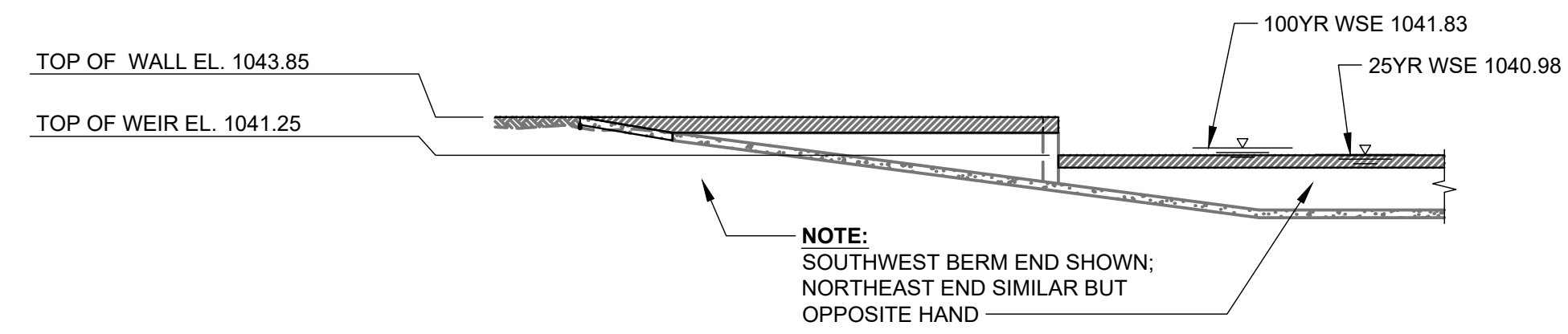
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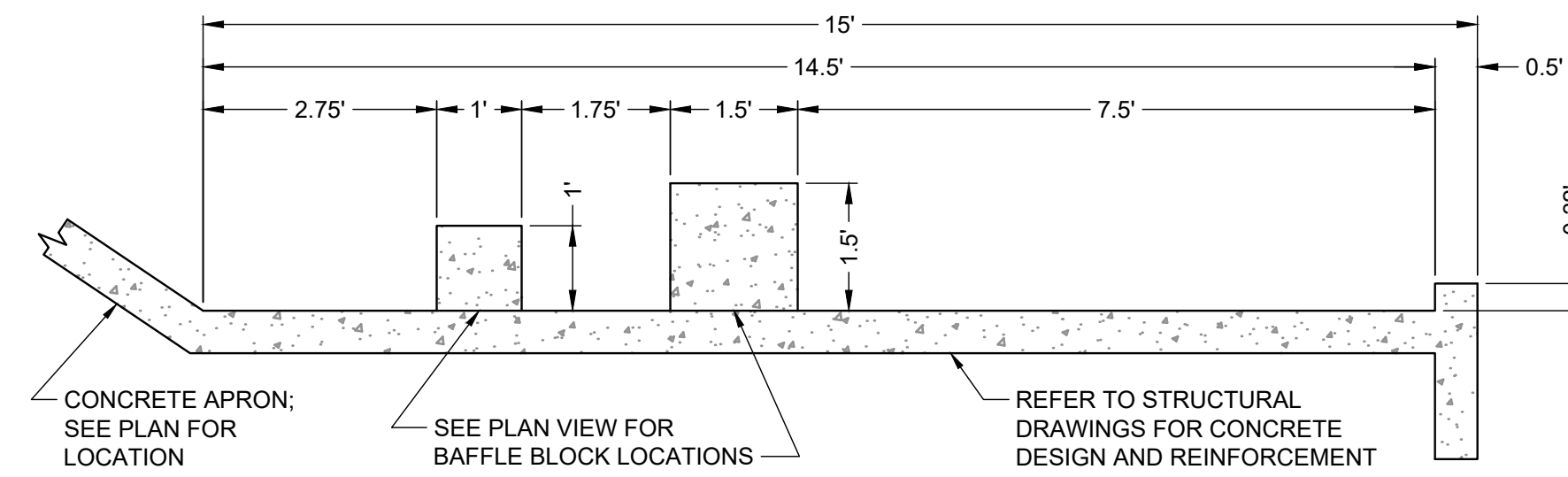
DETENTION POND 2 SECTION A-A
APPROX. SCALE: 1" = 20'



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



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



SECTION D-D THROUGH SPILLWAY SLAB
SCALE: 1" = 2'

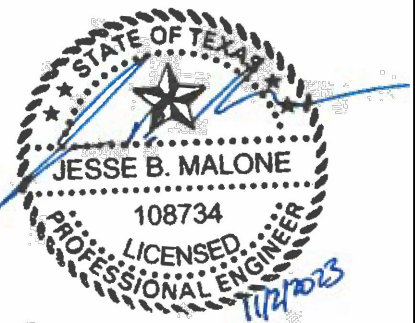
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LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
 3324 RANCH ROAD 620 SOUTH

DETENTION POND 2 SECTIONS & DETAILS

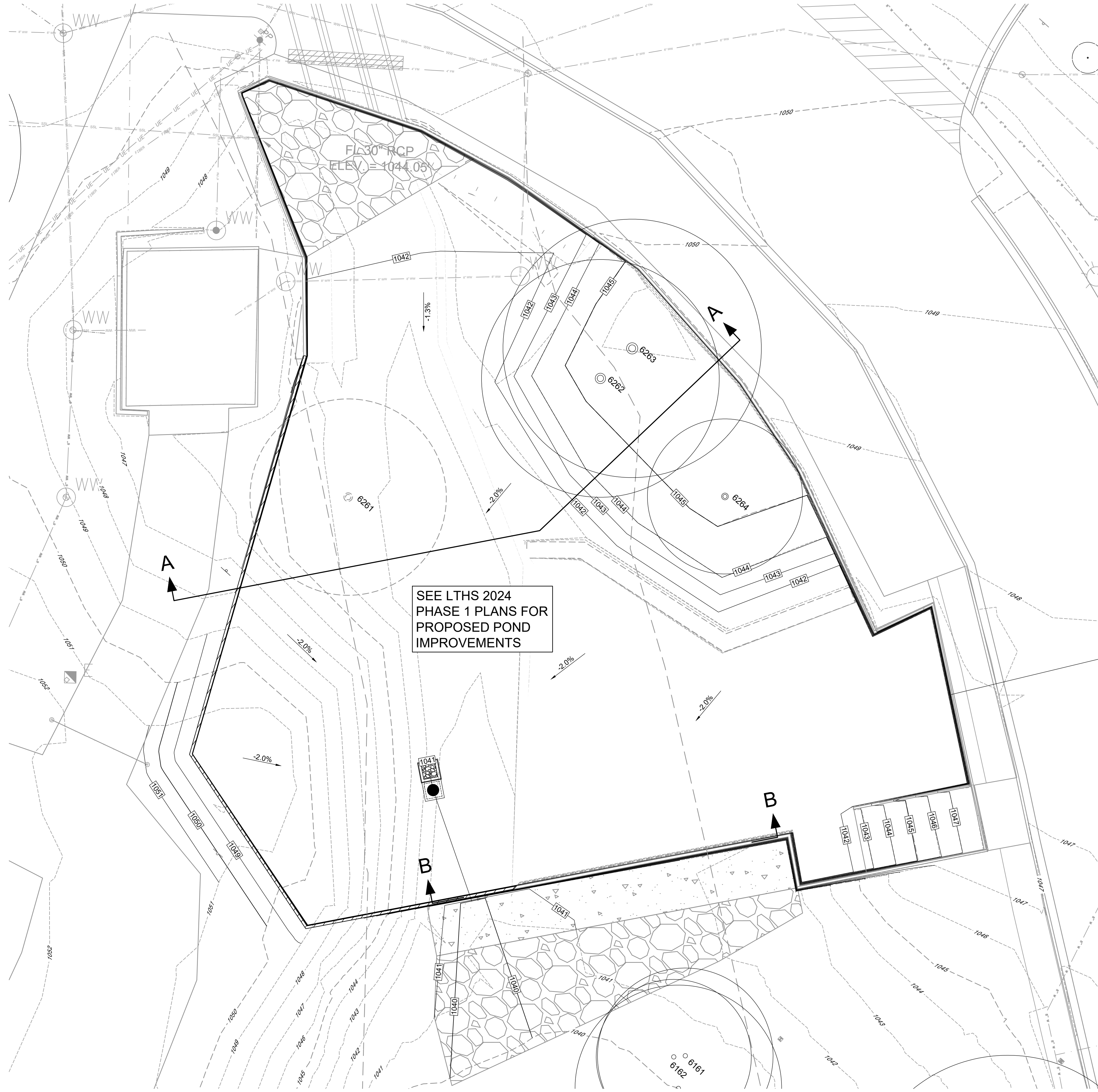
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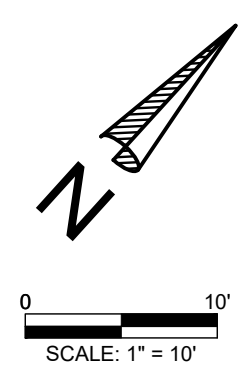


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SEE LTHS 2024
PHASE 1 PLANS FOR
PROPOSED POND
IMPROVEMENTS



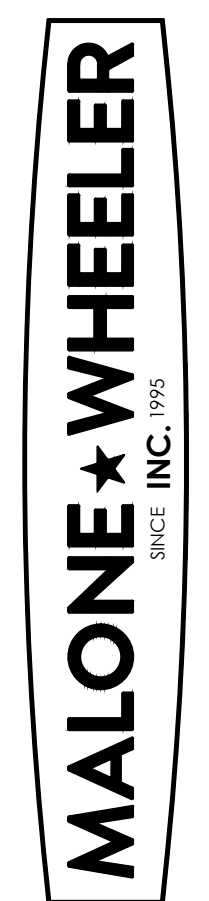
LEGEND

- PROPERTY BOUNDARY
- EXIST. GROUND CONTOUR
- PROP. FINISHED CONTOUR
- PROP. SPOT ELEVATION
- PROP. CURB
- PROP. SIDEWALK
- PROP. BUILDING SETBACK
- PROP. EASEMENT
- PROP. HANDRAIL / FENCE
- PROP. RETAINING WALL
- PROP. STORM SEWER
- PROP. STORM SEWER MANHOLE
- PROP. GRATE INLET
- PROP. HEADWALL

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

WATER QUALITY POND 1 PLAN

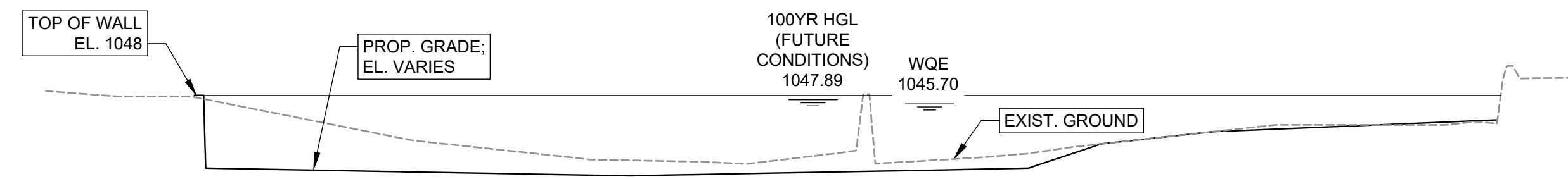


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5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

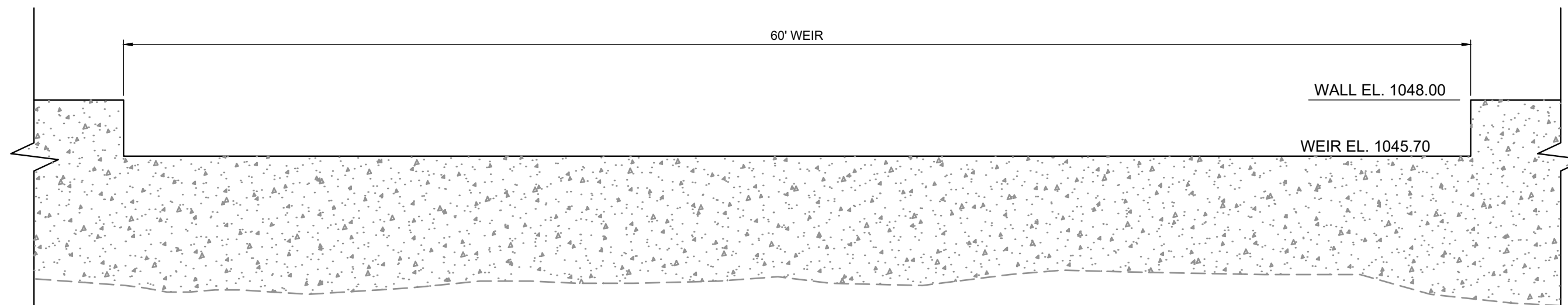


DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD_OVERALL\PROJECTS\24-060-AUS-LTHS\2024 IMPROVEMENT\DRAWINGS\PLANS\WQ\WATER QUALITY POND 1 SECTIONS & DETAILS.DWG - 11/2/2023 - ANTHONY VINCENT



POND 1 SECTION A-A
APPROX. SCALE: 1" = 10'



WEIR STRUCTURE SECTION B-B
APPROX. SCALE: 1" = 5'

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

POND "1A" WEIR CALCULATIONS

BROAD-CRESTED RECTANGULAR WEIR:

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

WHERE:

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

GIVEN:

- Q₁₀₀ = 600 NOTE: WEIR SIZED FOR FUTURE CONDITIONS
- C = 2.7
- H = 2.5
- L = 60

CALCULATIONS:

SOLVE FOR LENGTH

$$L = \frac{600}{2.7 \cdot 2.5^{3/2}} = \frac{600}{10.6727} = 56$$

SOLVE FOR HEAD

$$H = \left(\frac{600}{2.7 \cdot 60} \right)^{2/3} = \left(\frac{600}{162} \right)^{2/3} = \left(3.7037 \right)^{2/3} = 2.39$$

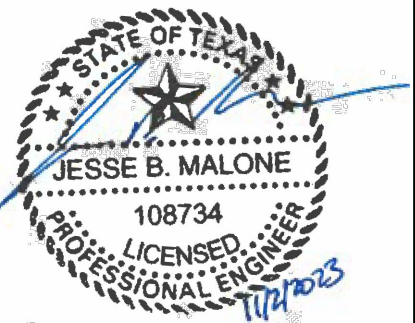
USE 60' WEIR AT 2.39' OF HEAD

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
WATER QUALITY POND 1 SECTIONS & DETAILS

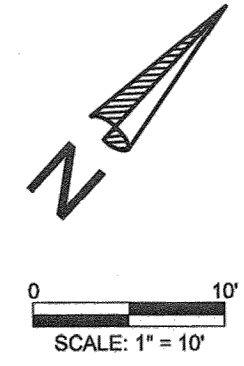


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APPROVED BY: JBM
DATE: 11/2/2023

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LEGEND

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

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

BATCH POND WEIR CALCULATIONS

BROAD-CRESTED RECTANGULAR WEIR:

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

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

$$L = \frac{Q}{C \cdot H^{3/2}} = \frac{84.84}{2.7 \cdot 0.5^{3/2}} = 88.88$$

SOLVE FOR HEAD

$$H = \left(\frac{Q}{C \cdot L} \right)^{2/3} = \left(\frac{84.84}{2.7 \cdot 60.75} \right)^{2/3} = 0.6444$$

USE 60.75' WEIR AT 0.64' OF HEAD

BATCH POND WEIR CALCULATIONS

BROAD-CRESTED RECTANGULAR WEIR:

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

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

$$L = \frac{Q}{C \cdot H^{3/2}} = \frac{62.73}{2.7 \cdot 0.5^{3/2}} = 65.71$$

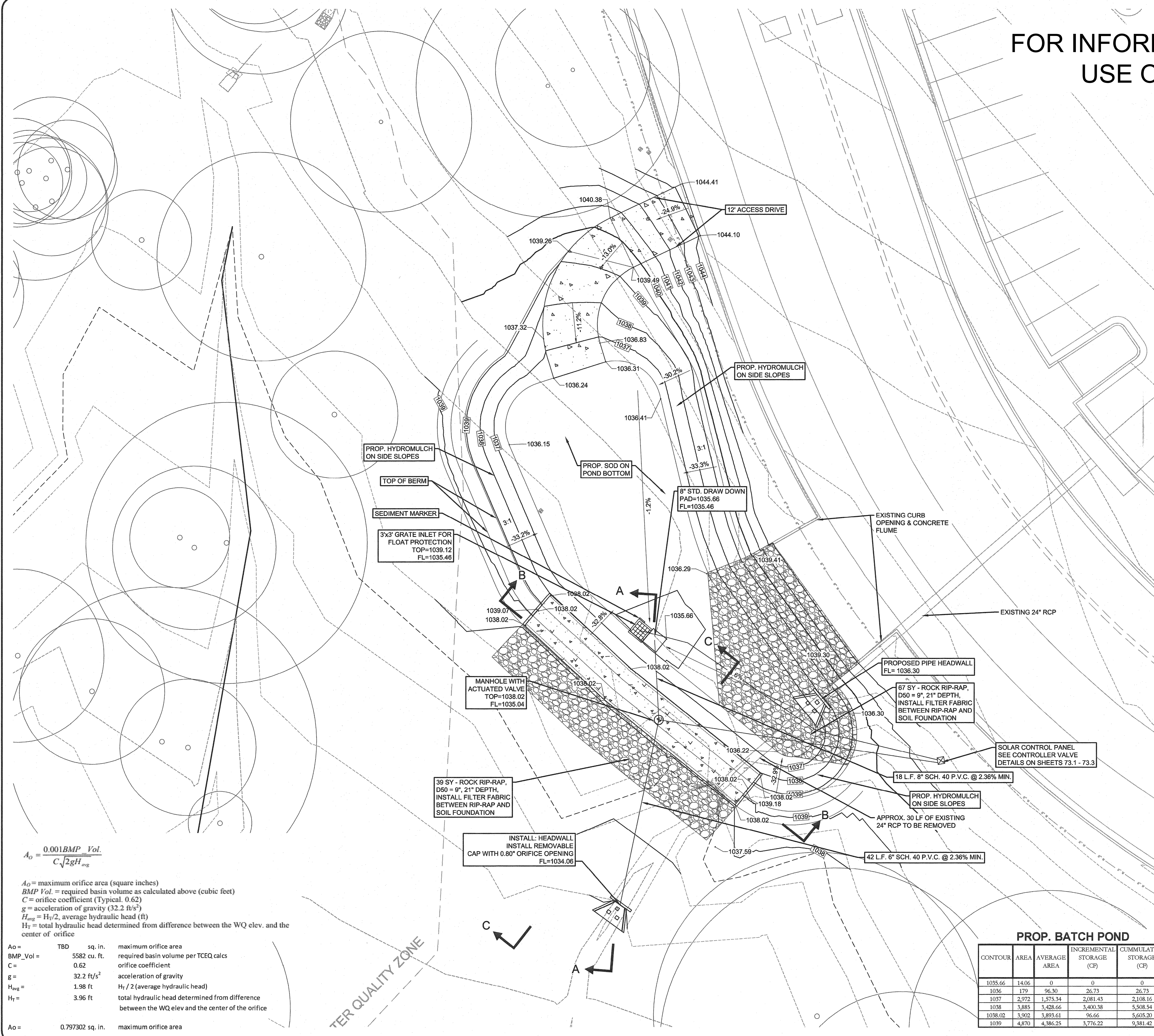
SOLVE FOR HEAD

$$H = \left(\frac{Q}{C \cdot L} \right)^{2/3} = \left(\frac{62.73}{2.7 \cdot 60.75} \right)^{2/3} = 0.5269$$

USE 60.75' WEIR AT 0.53' OF HEAD

PROP. BATCH POND

CONTOUR	AREA	AVERAGE AREA	INCREMENTAL STORAGE (CF)	CUMULATIVE STORAGE (CF)
1035.66	14.06	0	0	0
1036	179	96.30	26.73	26.73
1037	2,972	1,575.34	2,081.43	2,108.16
1038	3,885	3,428.66	3,400.38	5,508.54
1038.02	3,902	3,893.61	96.66	5,605.20
1039	4,870	4,386.25	3,776.22	9,381.42



$A_o = \frac{0.001 \text{ BMP Vol.}}{C \sqrt{2gH_{avg}}}$

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/s²)
 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

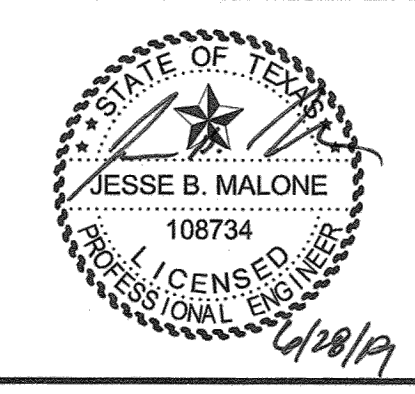
A _o =	TBD	sq. in.	maximum orifice area
BMP_Vol =	5582	cu. ft.	required basin volume per TCEQ calcs
C =	0.62		orifice coefficient
g =	32.2	ft/s ²	acceleration of gravity
H _{avg} =	1.98	ft	H _t / 2 (average hydraulic head)
H _t =	3.96	ft	total hydraulic head determined from difference between the WQ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

A_o = 0.797302 sq. in. maximum orifice area

LAKE TRAVIS HIGH SCHOOL 2019 IMPROVEMENTS
 3324 RANCH RD 620 SOUTH
 EXISTING WQ POND 3 (1 OF 2)

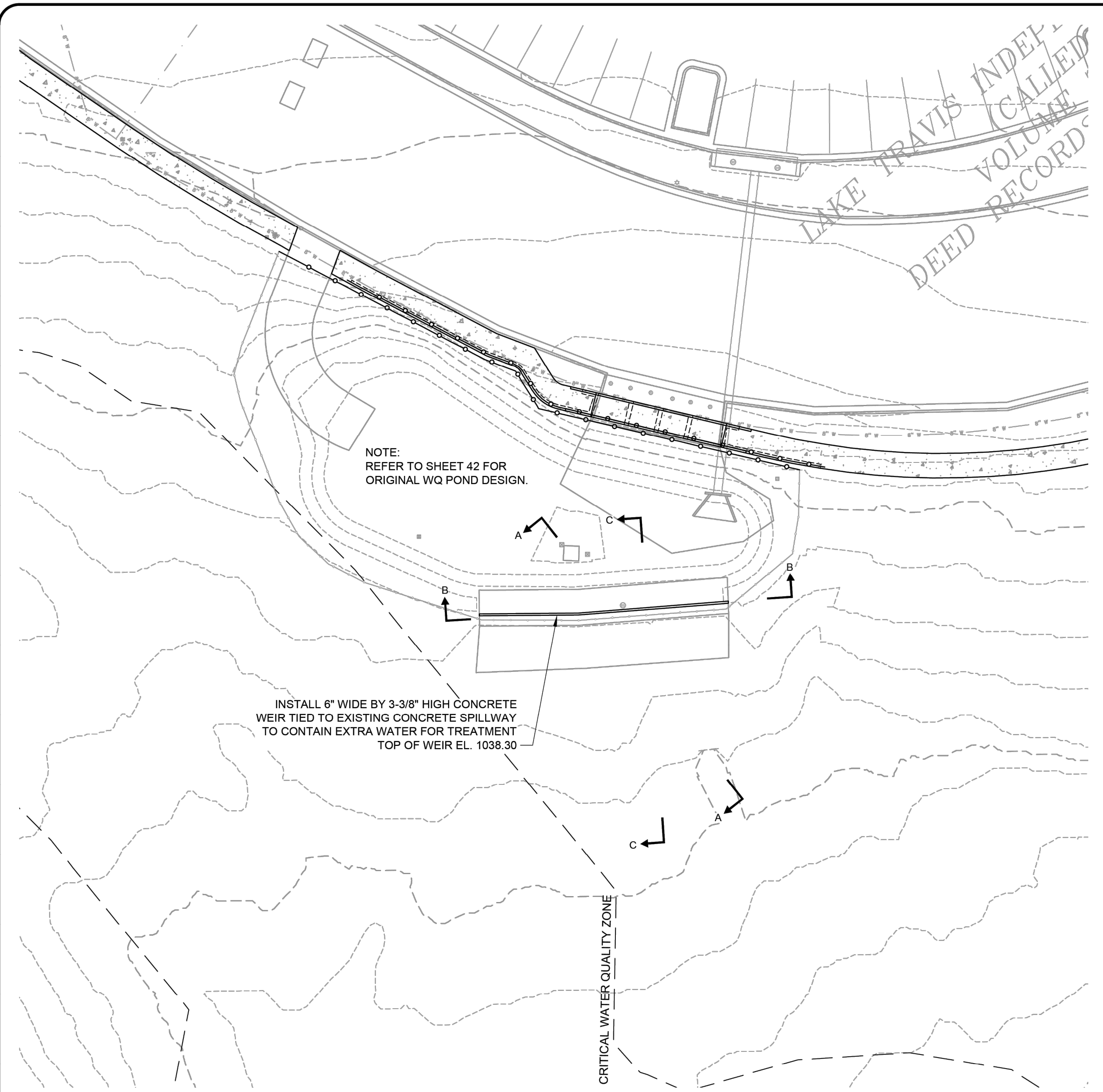
MALONE WHEELER
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. 17-796



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

SHEET 75
 OF 134

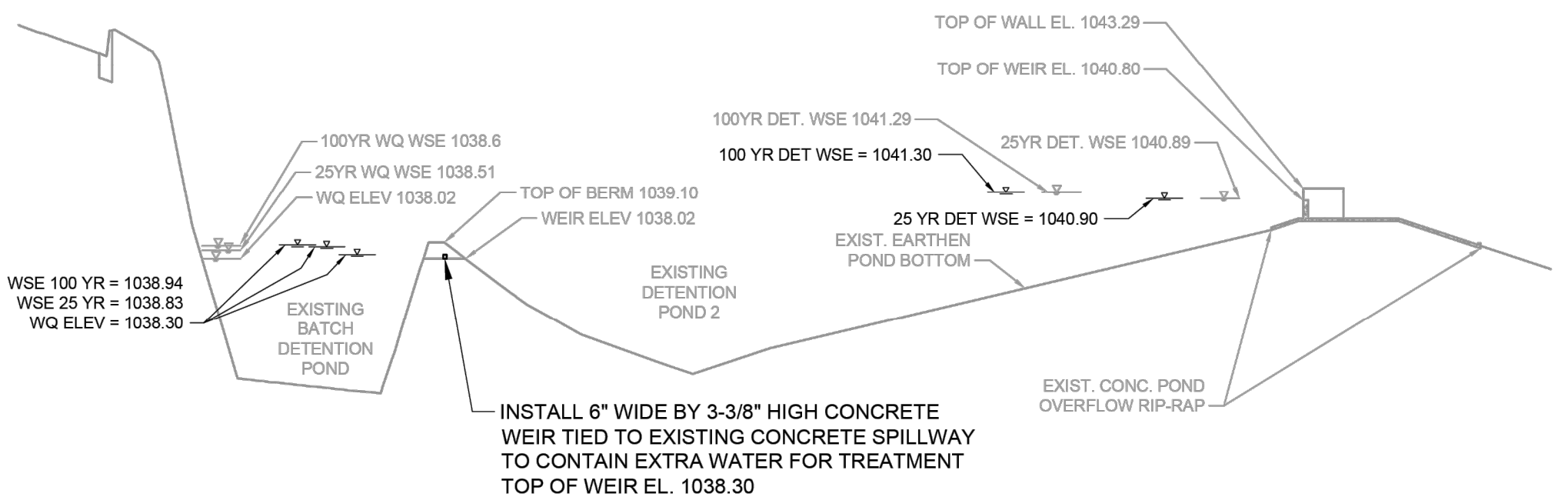


NOTE:
REFER TO SHEET 42 FOR
ORIGINAL WQ POND DESIGN.

INSTALL 6" WIDE BY 3-3/8" HIGH CONCRETE WEIR TIED TO EXISTING CONCRETE SPILLWAY TO CONTAIN EXTRA WATER FOR TREATMENT
TOP OF WEIR EL. 1038.30

CRITICAL WATER QUALITY ZONE

OVERALL SECTION



INSTALL 6" WIDE BY 3-3/8" HIGH CONCRETE WEIR TIED TO EXISTING CONCRETE SPILLWAY TO CONTAIN EXTRA WATER FOR TREATMENT
TOP OF WEIR EL. 1038.30

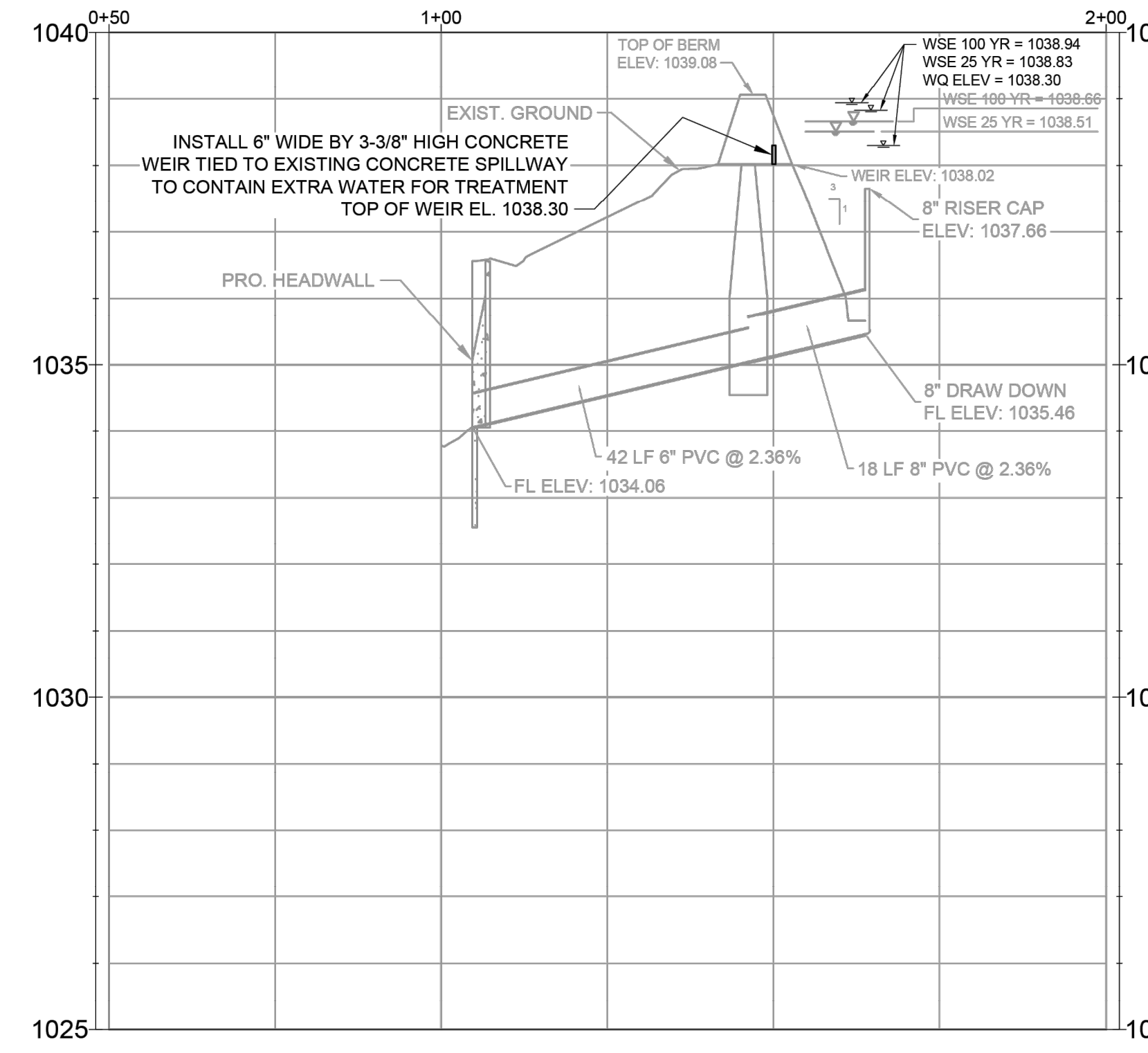
CONCRETE CURB REINFORCEMENT:

REINFORCE THE CURB WITH 1 - #4 BAR CONTINUOUS AND #4 "L" BARS 6" LG. X 12" LG. AT 24" O.C. ATTACHED TO THE EXISTING WALL WITH ANCHORING ADHESIVE AND 4" EMBEDMENT (PER RECOMMENDATIONS BY PICKETT, KELM & ASSOCIATES, INC.).

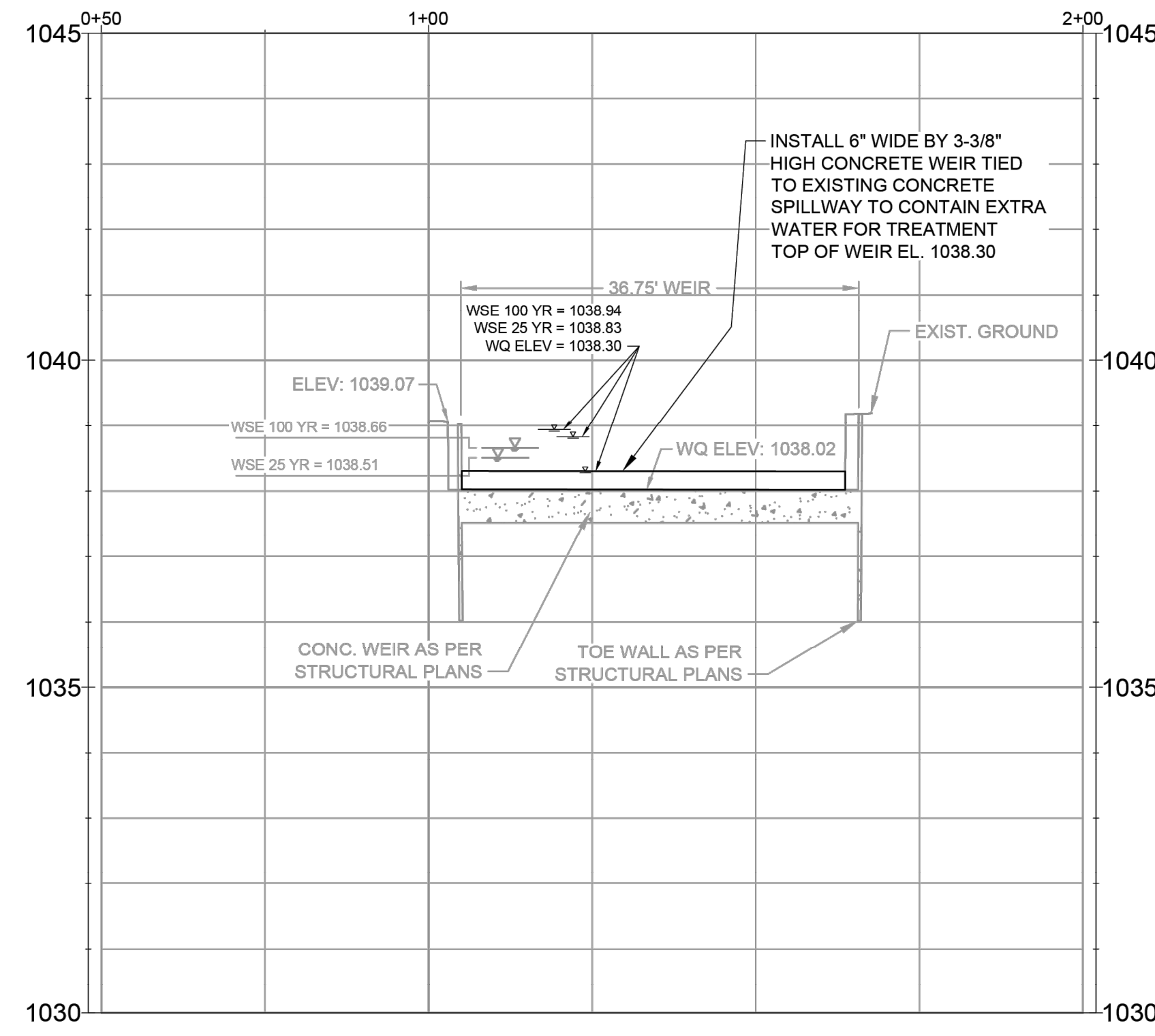
- NOTES:
- CONTACT POSTINSPECTION@TRAVISCOUNTYTX.GOV TO SCHEDULE THE FOLLOWING MILESTONE INSPECTIONS FOR THE WATER QUALITY STRUCTURES WITH AT LEAST A 48-HOUR NOTICE, IF APPLICABLE.
 - PRE-POUR OF ALL CONCRETE WITHIN THE FOOTPRINT OF THE WQ CONTROL OR POND
 - PLACEMENT OF ALL ROCK-FILLED GABIONS/MATTRESSES AND LEVEL SPREADERS
 - INSPECTION OF SANDBIO-FILTRATION MEDIA AND/OR ROCK PRIOR TO INSTALLING
 - UNDERDRAIN PIPING PRIOR TO COVERING WITH SAND/BIO-FILTRATION MEDIA OR ROCK IN INFILTRATION TRENCH - IF COVERED, REMOVAL OF MATERIAL WILL BE REQUIRED.
 - COMPLETED CONSTRUCTION OF WATER QUALITY STRUCTURE(S)

FOR INFORMATIONAL
USE ONLY

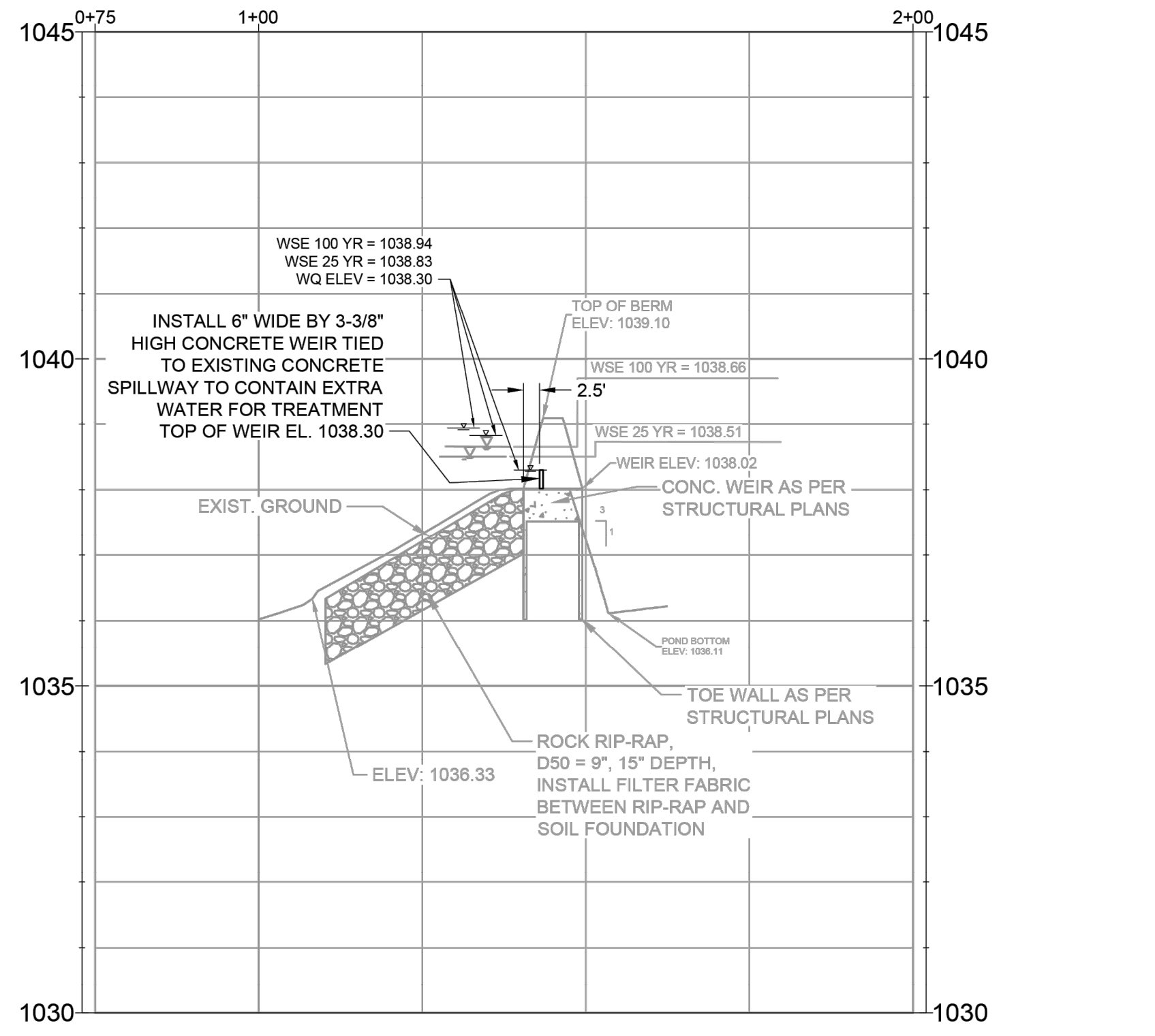
POND SECTION A-A



POND SECTION B-B



POND SECTION C-C



F:\LITSD\Overall\Projects\19-094-AUS.LTISD.HS.2020.Improvements\Drawings\Plans\Set37.Proposed Water Quality Improvements.dwg, 4/1/2022, SCOTT COLE

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2022 IMPROVEMENTS
3324 RANCH ROAD 620 SOUTH

EXISTING WQ POND 3 (2 OF 2)



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



DESIGN BY: SGC
CHECKED BY: SGC
APPROVED BY: JBM
DATE: 4/1/2022

SHEET 37
OF 60

SHEET 46 OF 69

F:\LITSD\Overall\Projects\19-094-AUS.LTISD.HS.2020.Improvements\Drawings\Plans\Set37.Proposed Water Quality Improvements.dwg, 4/1/2022, 3:40:12 PM, SCOTT

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: $L_M = 27.2(A_{NI} \times P)$

where: $L_{M \text{ TOTAL PROJECT}} =$ Required TSS removal resulting from the proposed development = 80% of increased load
 $A_{NI} =$ 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 = 25.55 acres
Total post-development impervious area within the limits of the plan = 49.17 acres
Total post-development impervious cover fraction = 0.40
 $P = 32$ inches
2022 Approved CZP + LTHS 2024 PH1 & PH2 + 5.22 acres future impervious

$L_{M \text{ TOTAL PROJECT}} = 20559$ lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area = 75.87 acres
Predevelopment impervious area within drainage basin/outfall area = 14.37 acres
Post-development impervious area within drainage basin/outfall area = 32.43 acres
Post-development impervious fraction within drainage basin/outfall area = 0.43
 $L_{M \text{ THIS BASIN}} = 15719$ 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: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

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

$A_C = 75.87$ acres
 $A_i = 32.43$ acres
 $A_p = 43.44$ acres
 $L_R = 33358$ lbs

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

Desired $L_{M \text{ THIS BASIN}} = 18109$ lbs.

$F = 0.54$

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 = 0.47 inches
Post Development Runoff Coefficient = 0.32
On-site Water Quality Volume = 41793 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 = 1570 cubic feet

Storage for Sediment = 8673
Total Capture Volume (required water quality volume(s) x 1.20) = 52036 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 = 52036 cubic feet

Table with 5 columns: CONTOUR, AREA (SF), AVERAGE AREA (SF), INCREMENTAL STORAGE (CF), CUMULATIVE STORAGE (CF). Rows 1041 to 1047.

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: $L_M = 27.2(A_{NI} \times P)$

where: $L_{M \text{ TOTAL PROJECT}} =$ Required TSS removal resulting from the proposed development = 80% of increased load
 $A_{NI} =$ 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 = 24.30 acres
Total post-development impervious area within the limits of the plan = 49.17 acres
Total post-development impervious cover fraction = 0.40
 $P = 32$ inches
2022 Approved CZP + LTHS 2024 PH1 & PH2 + 5.22 acres future impervious

$L_{M \text{ TOTAL PROJECT}} = 21647$ lbs.

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

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

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

Drainage Basin/Outfall Area No. = 3

Total drainage basin/outfall area = 8.09 acres
Predevelopment impervious area within drainage basin/outfall area = 0.00 acres
Post-development impervious area within drainage basin/outfall area = 4.84 acres
Post-development impervious fraction within drainage basin/outfall area = 0.60
 $L_{M \text{ THIS BASIN}} = 4216$ 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: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

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

$A_C = 8.09$ acres 43.15-72
 $A_i = 4.84$ acres
 $A_p = 3.25$ acres
 $L_R = 4931$ lbs

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

Desired $L_{M \text{ THIS BASIN}} = 2450$ 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 = 0.42
On-site Water Quality Volume = 5198 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 = 1040
Total Capture Volume (required water quality volume(s) x 1.20) = 6237 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 = 6237 cubic feet

Table with 5 columns: CONTOUR, AREA (SF), AVERAGE AREA (SF), INCREMENTAL STORAGE (CF), CUMULATIVE STORAGE (CF). Rows 1035.66 to 1039.

F:\UTSD\OVERALL\PROJECTS\04-20-09-AUS-LTHS 2024 IMPROVEMENTS\DRAWINGS\PLANS\SET\17 TCEQ WATER QUALITY CALCULATIONS.DWG, 11/29/2023, ANTHONY VINCENT

Table with columns: NO., DATE, REVISION.

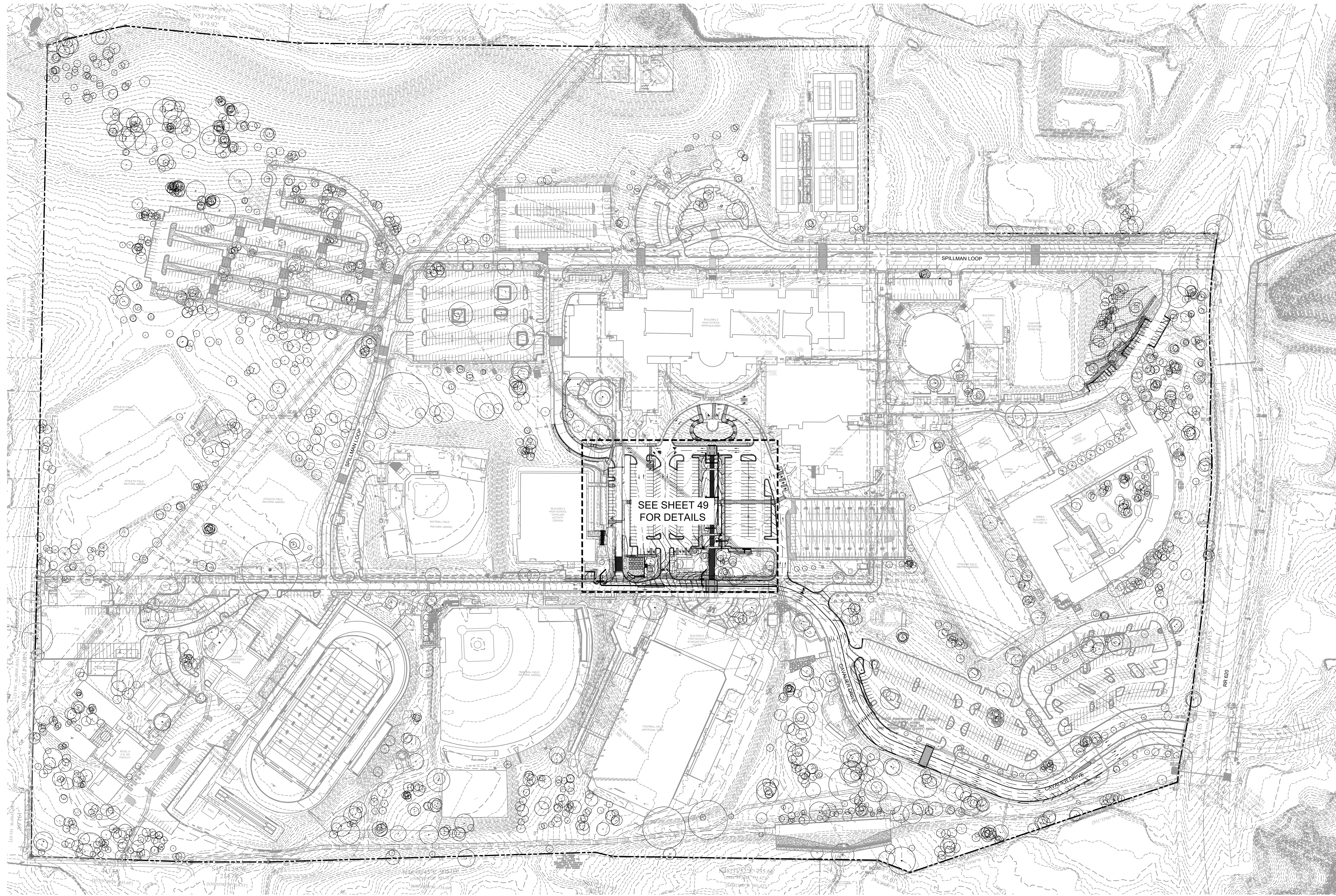
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
TCEQ WATER QUALITY CALCULATIONS

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

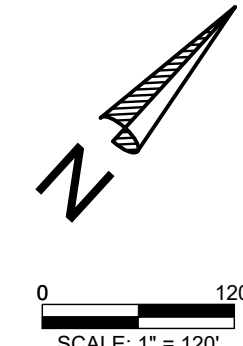


DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/21/2023

F:\UTILSD\OVERALL\PROJECTS\02-060-AUS\LTIS\020\DRAWINGS\PLANSET\18 STORM PLAN OVERALL.DWG, 11/22/2023, ANTHONY VINCENT



SEE SHEET 49
FOR DETAILS



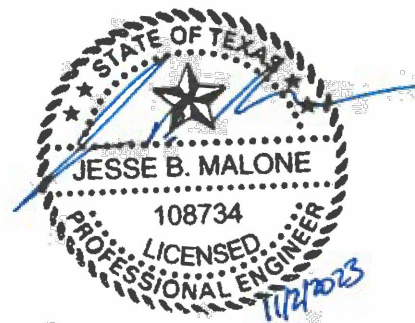
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

STORM PLAN OVERALL

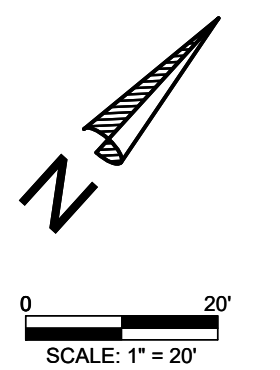
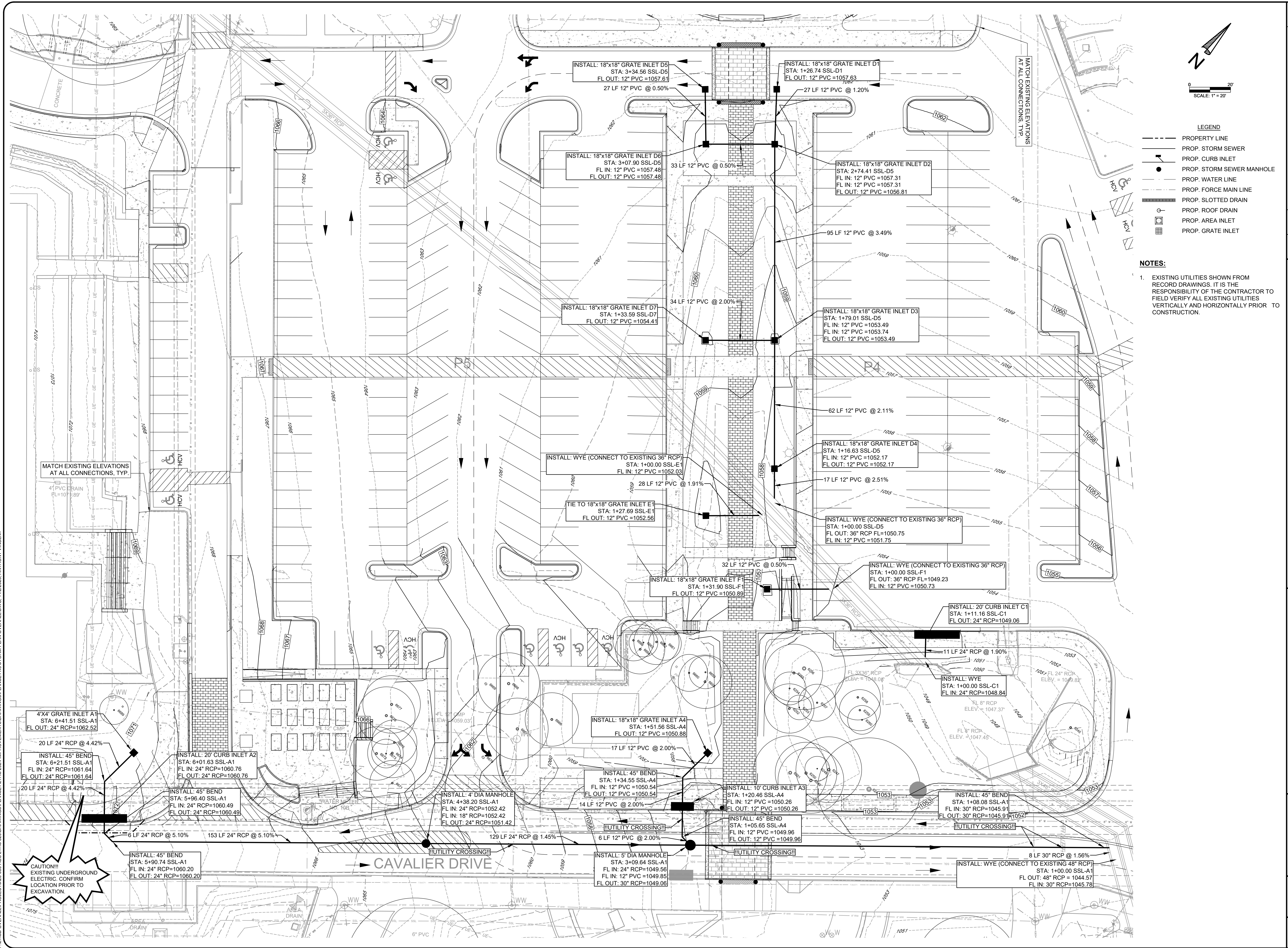
MALONE ★ WHEELER
INC. 1976

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
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Firm Registration No. F-786



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CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD\OVERALL\PROJECTS\2024\IMPROVEMENT\DRAWINGS\PLANSET\M8 STORM PLAN OVERALL.DWG, 11/22/2023, ANTHONY VINCENT



- LEGEND**
- PROPERTY LINE
 - - - PROP. STORM SEWER
 - - - PROP. CURB INLET
 - PROP. STORM SEWER MANHOLE
 - - - PROP. WATER LINE
 - - - PROP. FORCE MAIN LINE
 - - - PROP. SLOTTED DRAIN
 - PROP. ROOF DRAIN
 - PROP. AREA INLET
 - PROP. GRATE INLET

NOTES:

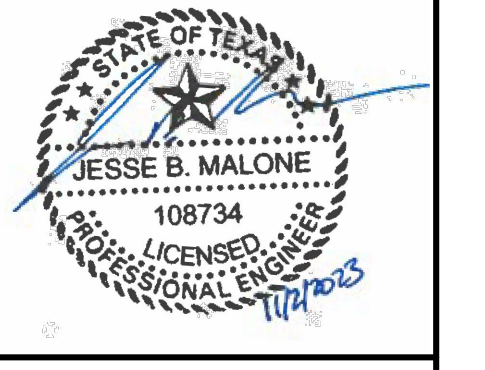
- EXISTING UTILITIES SHOWN FROM RECORD DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
ENLARGED STORM PLAN

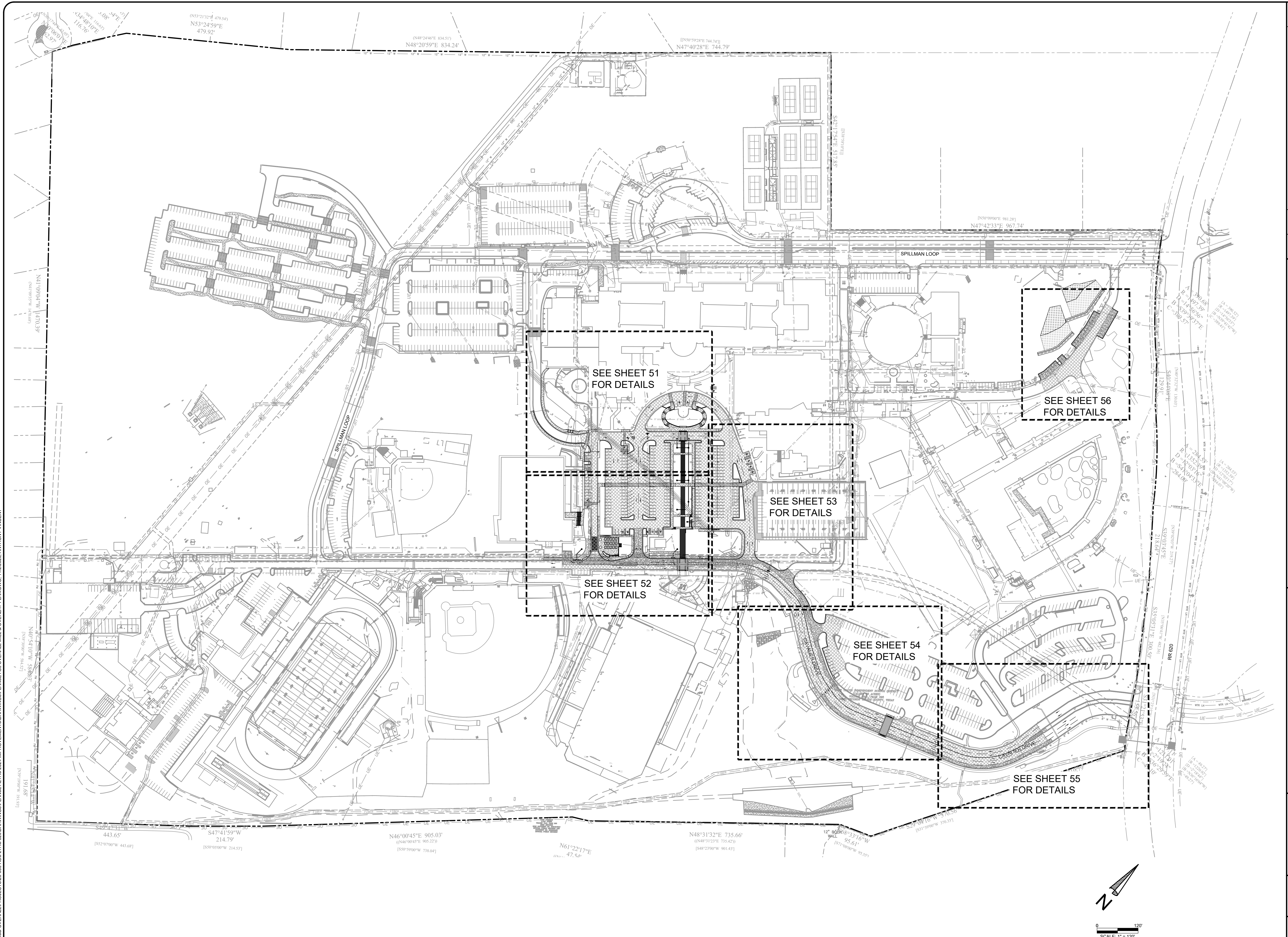
MALONE WHEELER
INC. 1975

CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
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 Firm Registration No. F-786



DESIGN BY : SGC
 CHECKED BY : AV
 APPROVED BY : JBM
 DATE : 11/22/2023

F:\UTSD\OVERALL\PROJECTS\2024-AUS-LTHS\2024-DRAWINGS\PLANSET\190-OVERALL MILL & OVERLAY PLAN.DWG, 11/22/2023, ANTHONY VINCENT



NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

OVERALL MILL AND OVERLAY PLAN

MALONE ★ WHEELER
INC. 1975

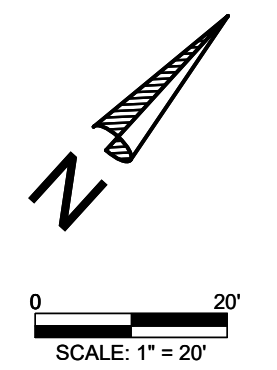
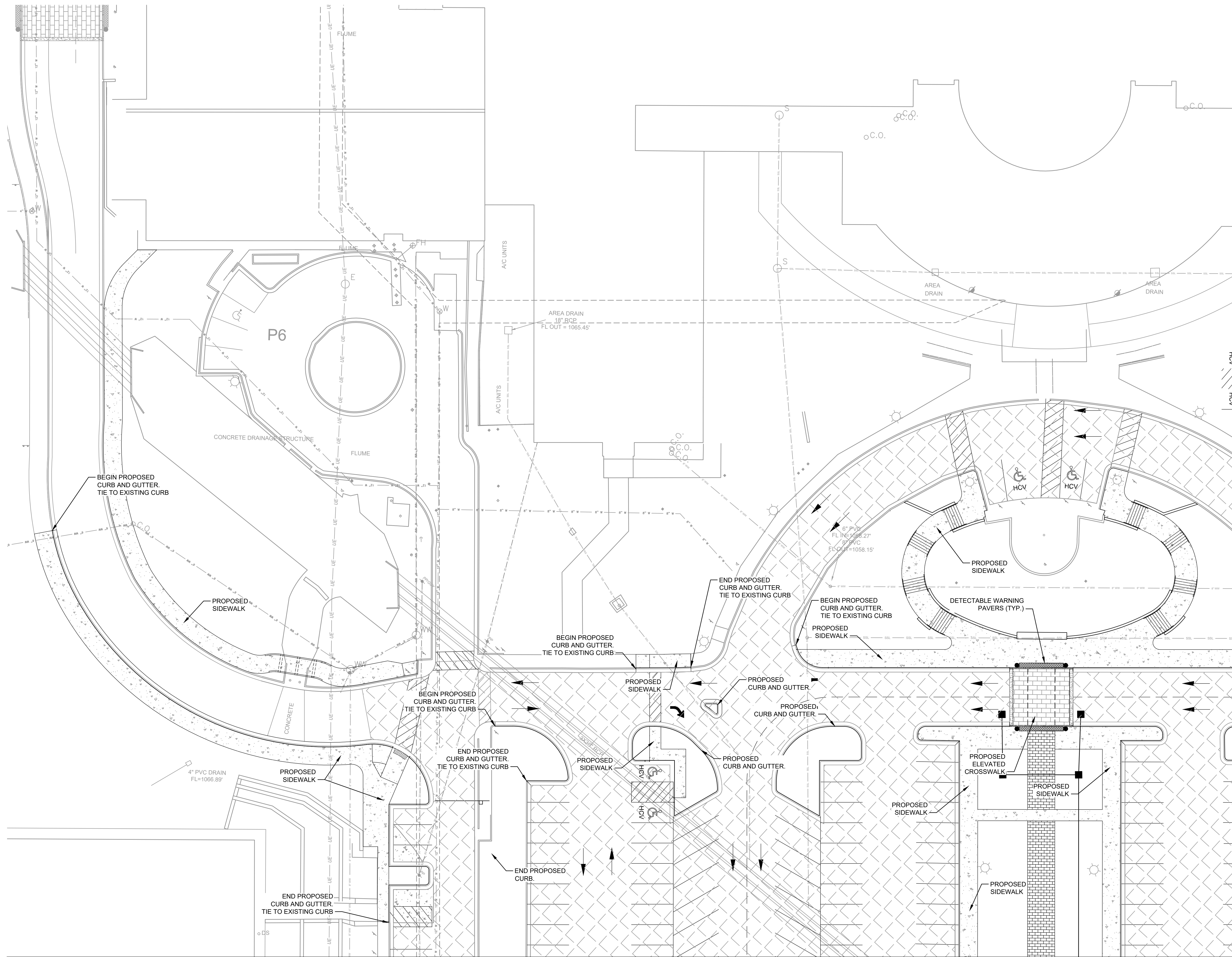
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

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



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD OVERALL\PROJECTS\2024-066-AUS-LTHS 2024 IMPROVEMENTS\DRAWINGS\PLANS\SETLTHS 2024 IMPROVEMENTS\PLANS\SETLTHS 2024 IMPROVEMENTS\OVERALL MILL & OVERLAY PLAN.DWG. 11/22/2023. ANTHONY VINCENT



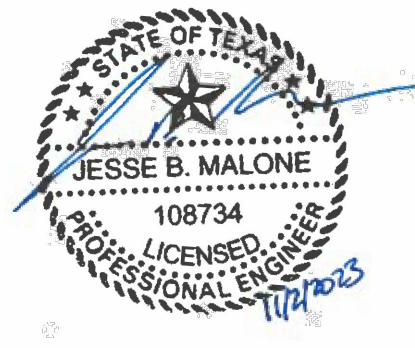
LEGEND

	PROP. ASPHALT MILL & OVERLAY
	PROP. NEW PAVEMENT

NO.	DATE	REVISION	BY

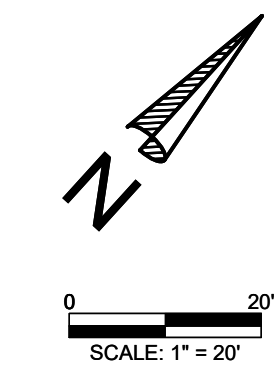
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
PARKING LOT MILL AND OVERLAY PLAN

MALONE WHEELER
INC. 1976
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
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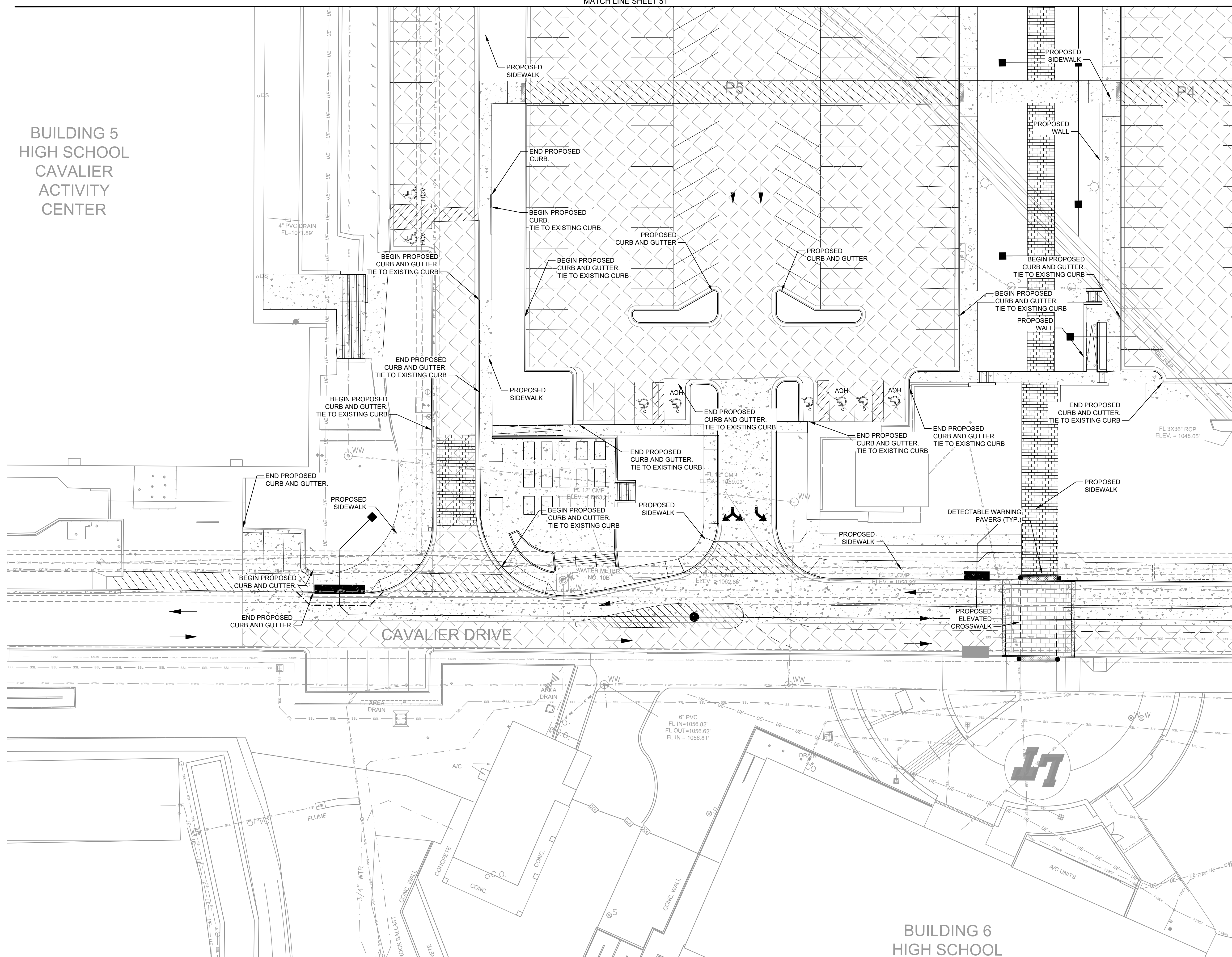
DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

BUILDING 5
HIGH SCHOOL
CAVALIER
ACTIVITY
CENTER



LEGEND

	PROP. ASPHALT MILL & OVERLAY
	PROP. NEW PAVEMENT



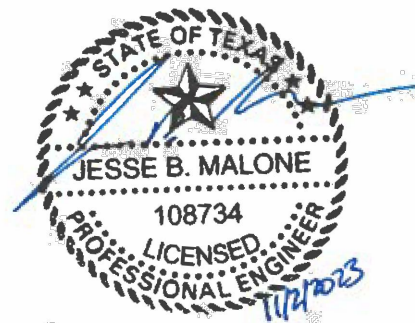
MATCH LINE SHEET 53

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

PARKING LOT MILL AND OVERLAY PLAN

MALONE WHEELER
INC. 1976

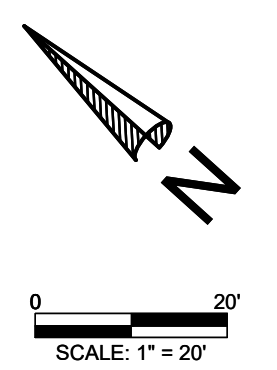
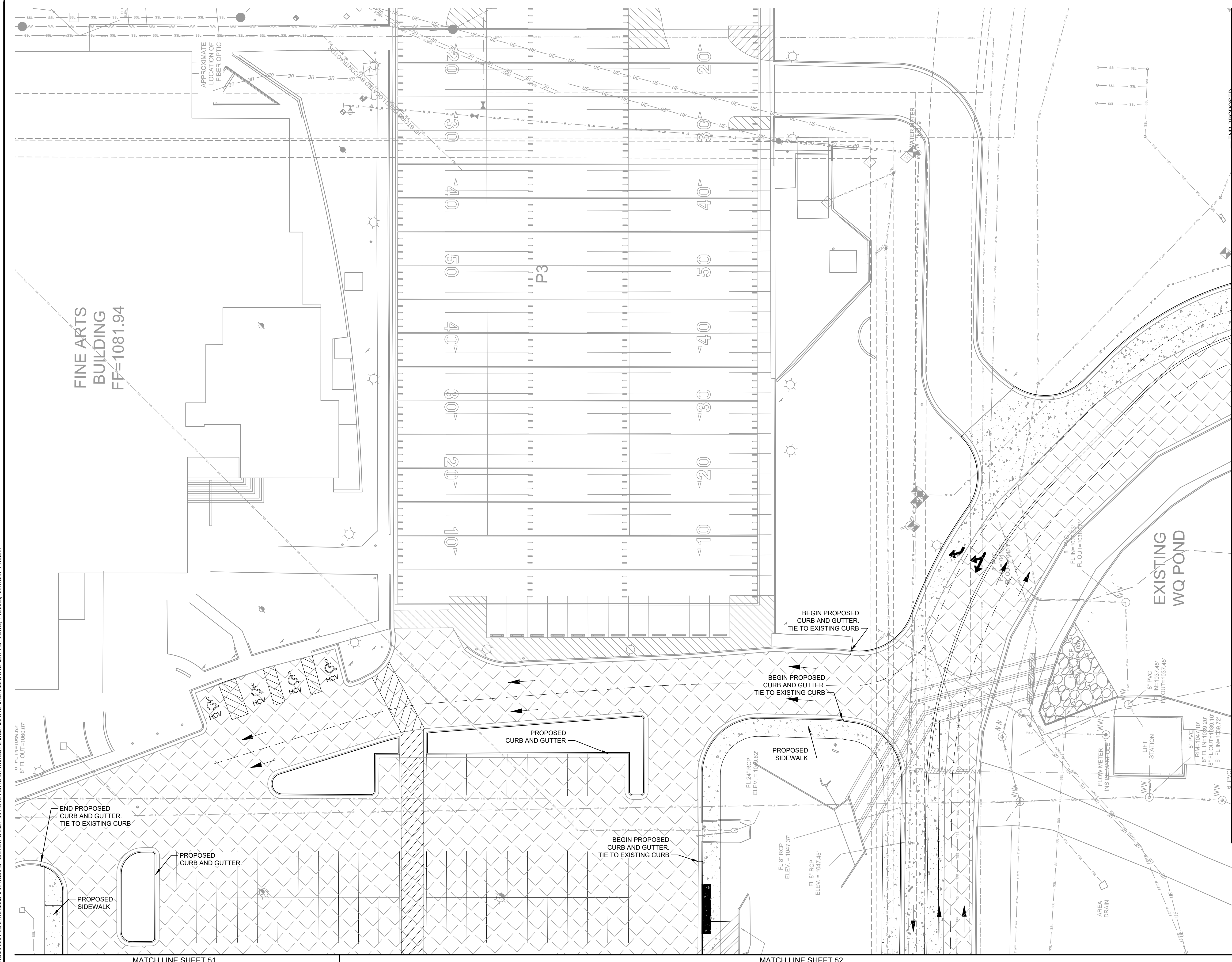
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD\OVERALL\PROJECTS\23-069-AUS-LTHS\2024\DRAWINGS\PLANS\SETLTHS 2024 IMPROVEMENT\DRAWINGS\OVERALL MILL & OVERLAY PLAN.DWG. 11/22/2023. ANTHONY VINCENT

F:\UTSD_OVERALL\PROJECTS\2024-060-AUS-LTHS 620\DRAWINGS\PLANS\SET150 OVERALL MILL & OVERLAY PLAN.DWG, 11/22/2023, ANTHONY VINCENT



LEGEND

	PROP. ASPHALT MILL & OVERLAY
	PROP. NEW PAVEMENT

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
 3324 RANCH ROAD 620 SOUTH
CAVALIER DRIVE MILL AND OVERLAY PLAN

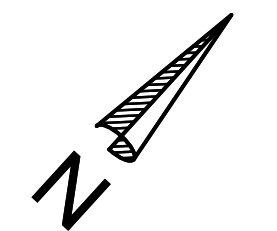
MALONE WHEELER
INC. 1976
 CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
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DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

MATCH LINE SHEET 53

7" FL IN=1039.72'

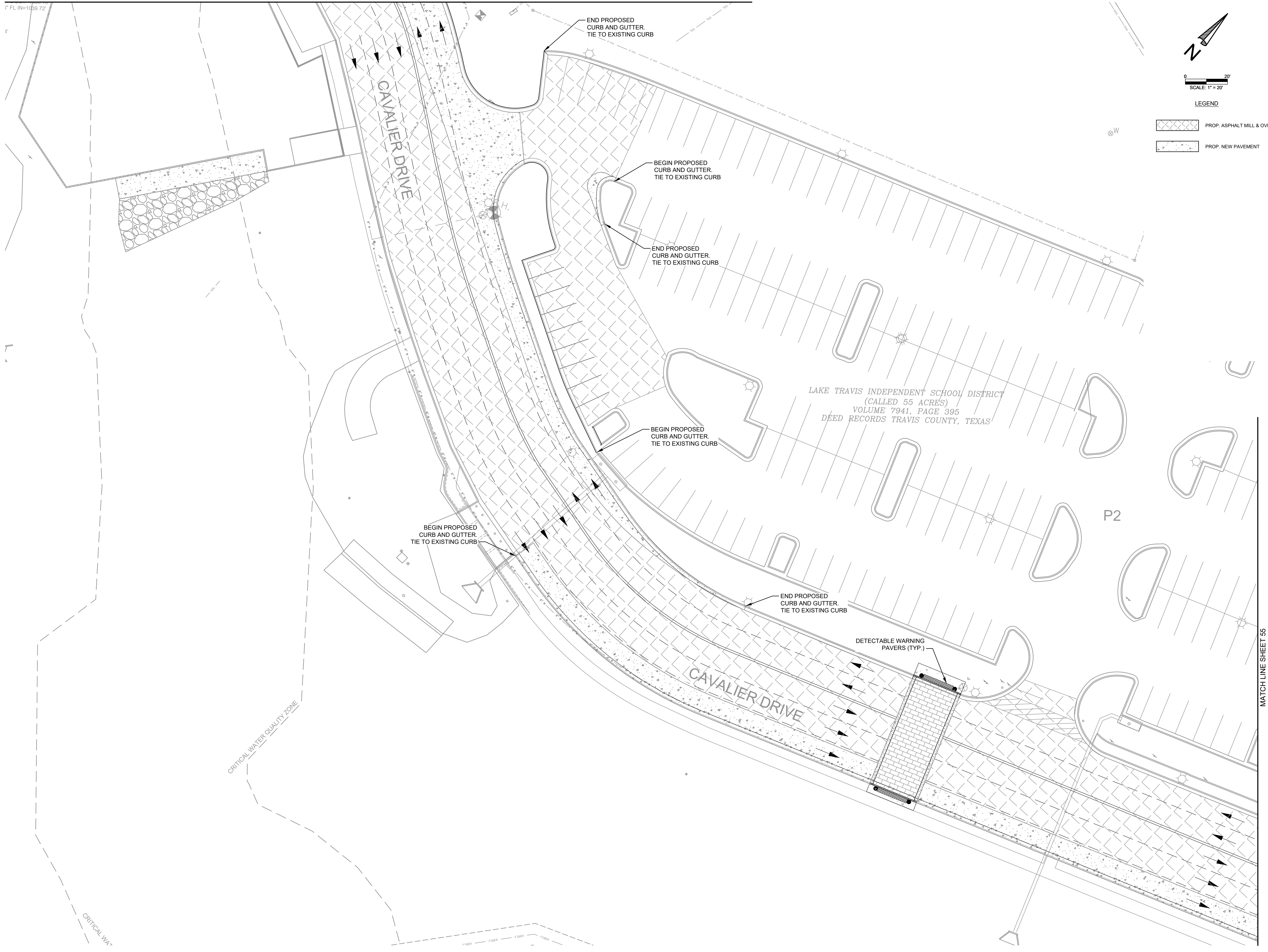


SCALE: 1" = 20'

LEGEND

- PROP. ASPHALT MILL & OVERLAY
- PROP. NEW PAVEMENT

NO.	DATE	REVISION	BY



LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE MILL AND OVERLAY PLAN

MALONE ★ WHEELER
INC. SINCE 1975

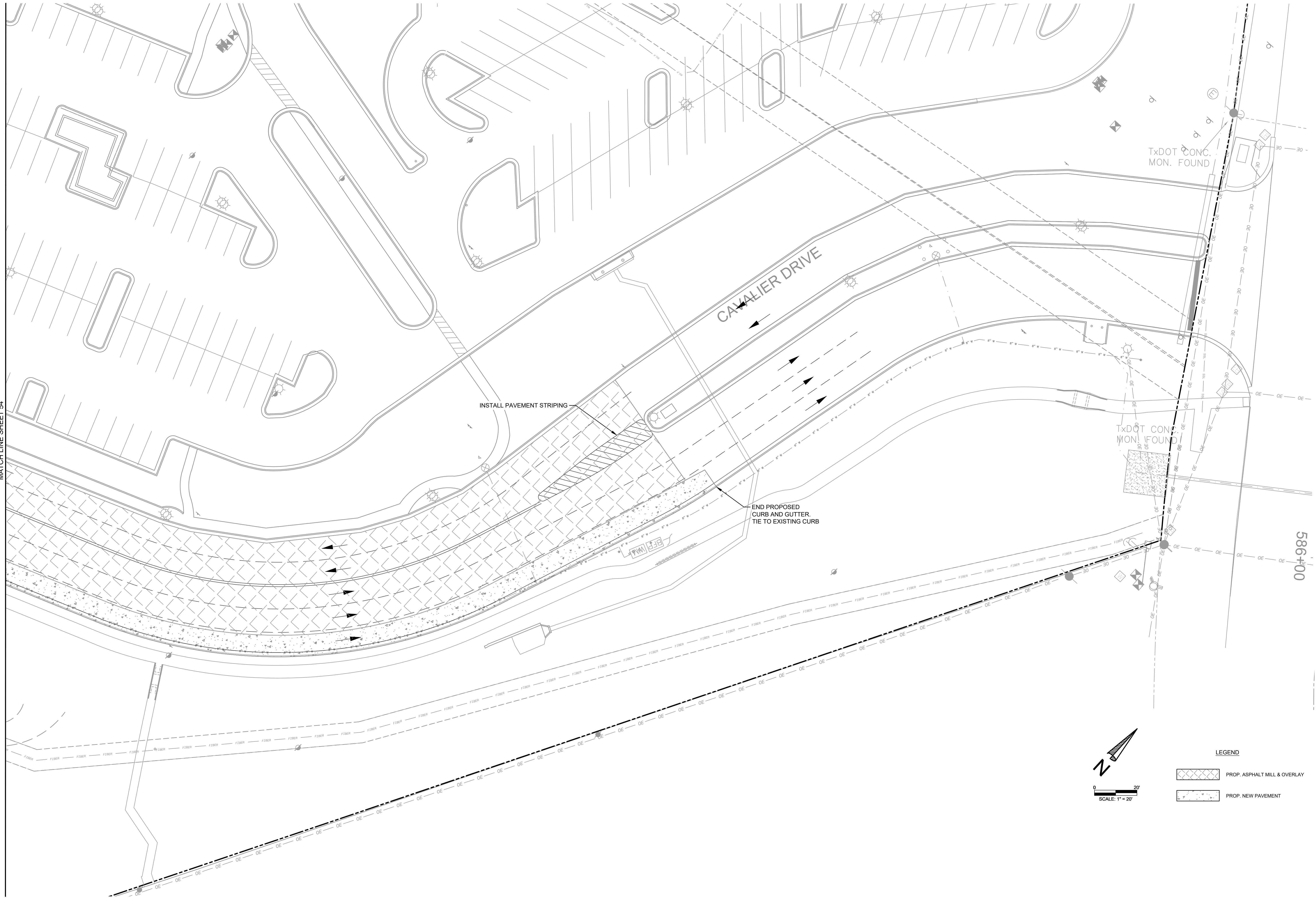
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
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DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

F:\UTSD OVERALL\PROJECTS\23-060-AUS.LTMS 2024\DRAWINGS\PLANS\SETLTHS 2024 IMPROVEMENT\DRAWINGS\PLANS\SETLTHS 2024 OVERLAY PLAN.DWG. 11/2/2023. ANTHONY VINCENT

MATCH LINE SHEET 54



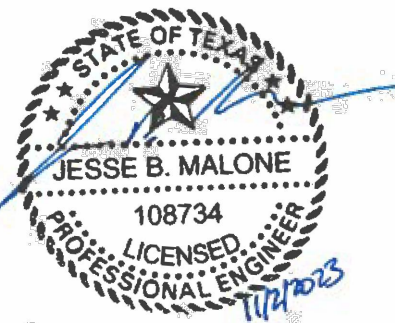
NO.	DATE	REVISION	BY

**LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH**

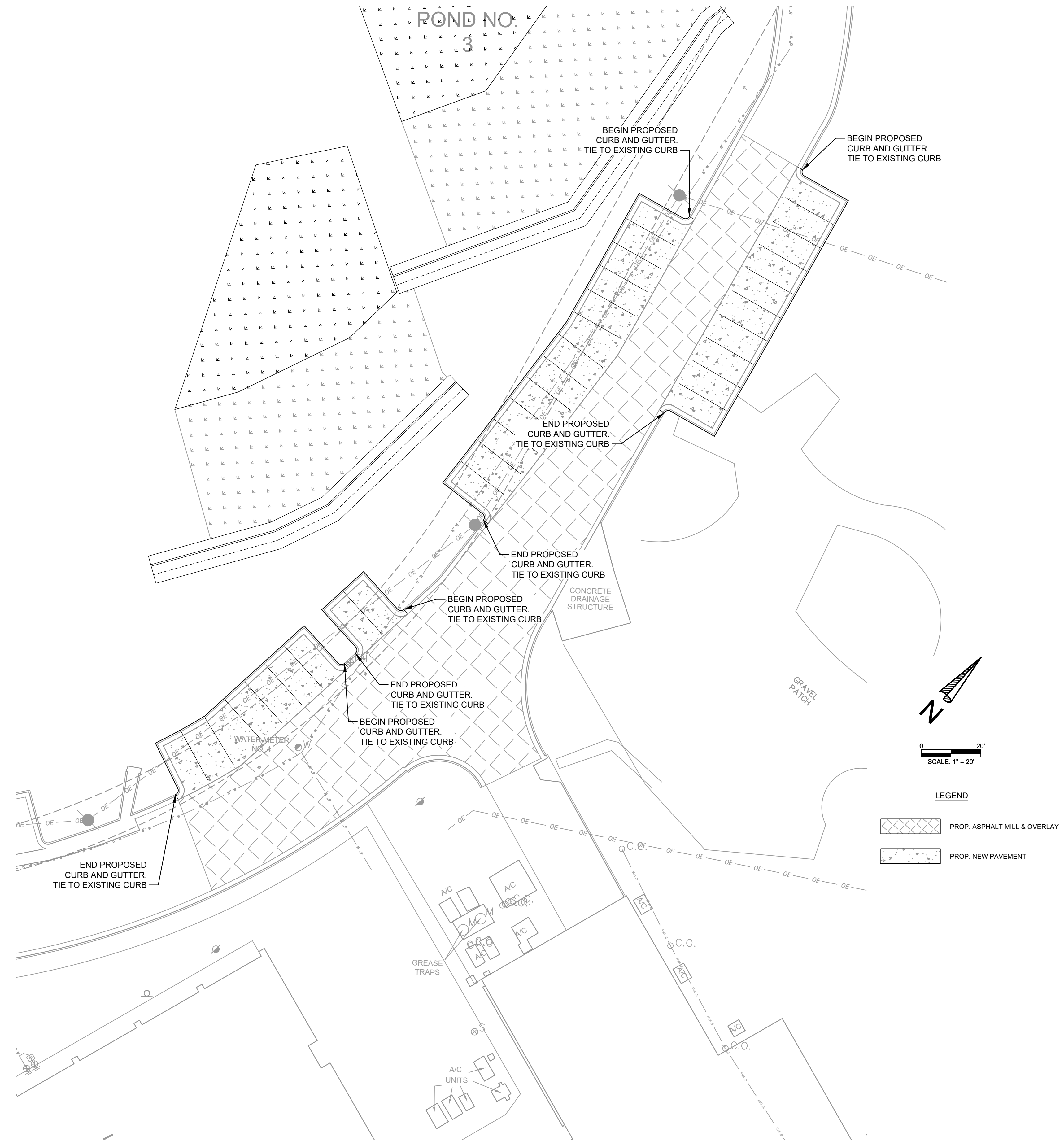
CAVALIER DRIVE MILL AND OVERLAY PLAN

MALONE ★ WHEELER
INC. SINCE 1975

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
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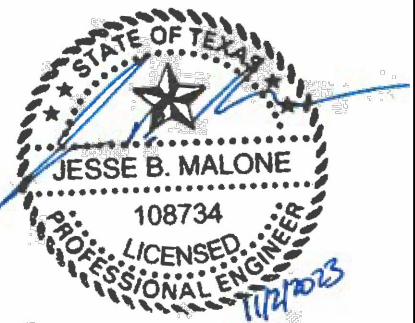
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

BUS LOOP MILL AND OVERLAY PLAN

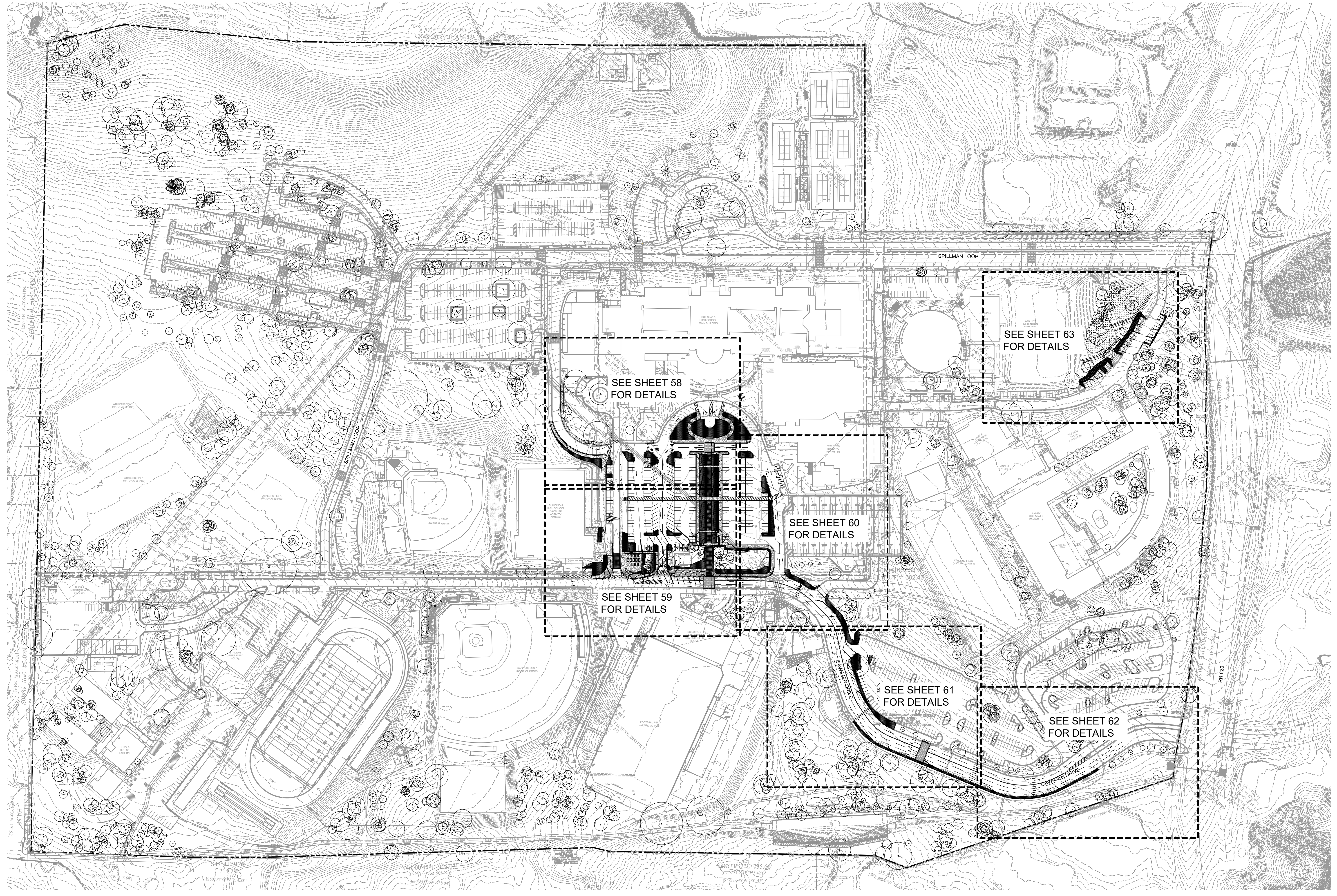
MALONE ★ WHEELER
INC. SINCE 1975

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



DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

ULTISO OVERALL PROJECTS 2024-AUS-LTHS 620 DRAWINGS PLAN SET 197 OVERALL RESTORATION PLAN DWG. 11/2/2023. ANTHONY VINCENT



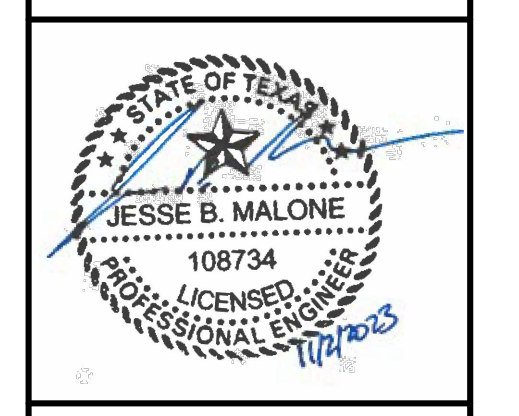
NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
OVERALL RESTORATION PLAN

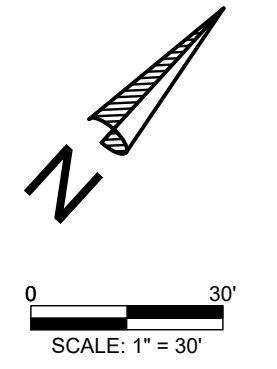
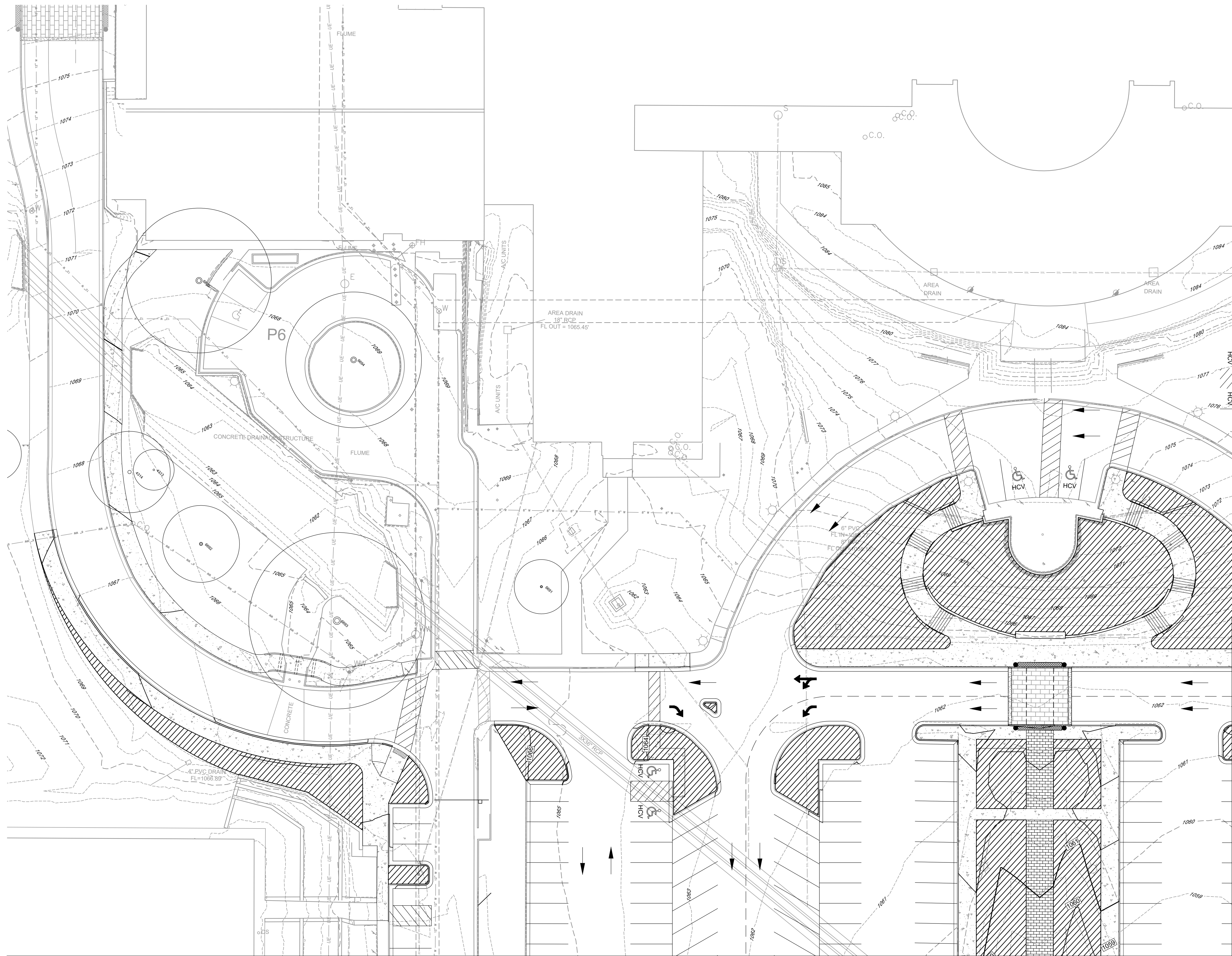
MALONE ★ WHEELER
INC. 1976

CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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



DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023



LEGEND

- PROPERTY BOUNDARY
- LOC LIMIT OF CONSTRUCTION
- [Hatched Box] PROP. HYDROMULCH
- [Dotted Box] PROP. SOD
- (10) TREE TO REMAIN
- (10) TREE TO BE REMOVED

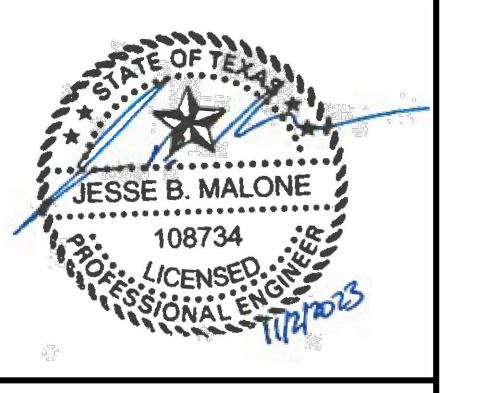
NOTES:

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 STABILIZATION IMMEDIATELY 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 PWOC 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 INDICATED 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.

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
PARKING LOT RESTORATION

MALONE ★ WHEELER
INC. 1975
 CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786

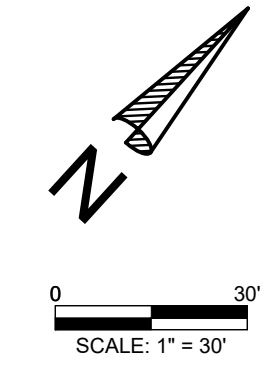
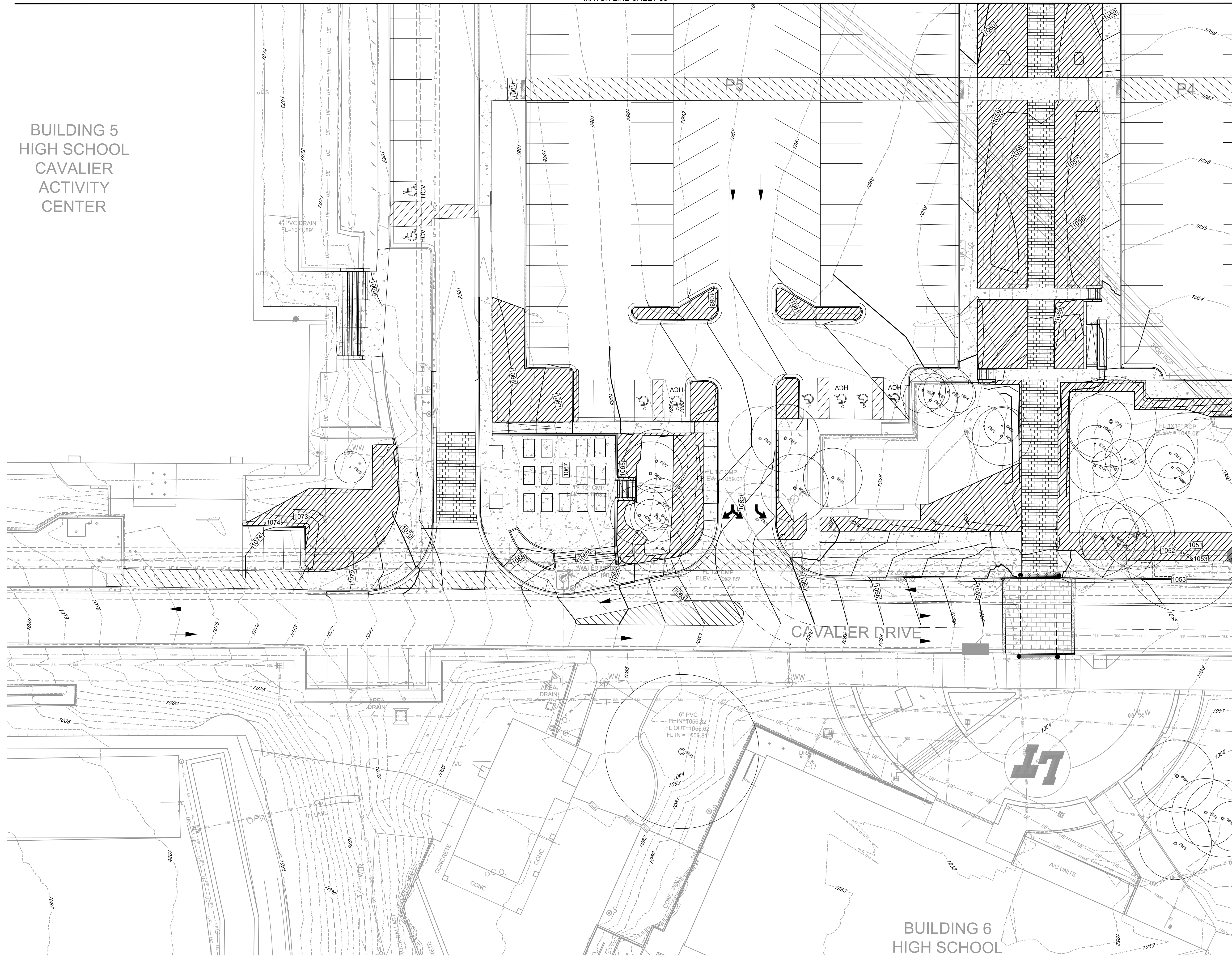


DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

MATCH LINE SHEET 59

MATCH LINE SHEET 60

BUILDING 5
HIGH SCHOOL
CAVALIER
ACTIVITY
CENTER



LEGEND

- PROPERTY BOUNDARY
- LOC LIMIT OF CONSTRUCTION
- PROP. HYDOMULCH
- PROP. SOD
- TREE TO REMAIN
- TREE TO BE REMOVED

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 STABILIZATION IMMEDIATELY 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 PWOC 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 INDICATED 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.

MATCH LINE SHEET 60

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

PARKING LOT RESTORATION

MALONE WHEELER
INC. 1976

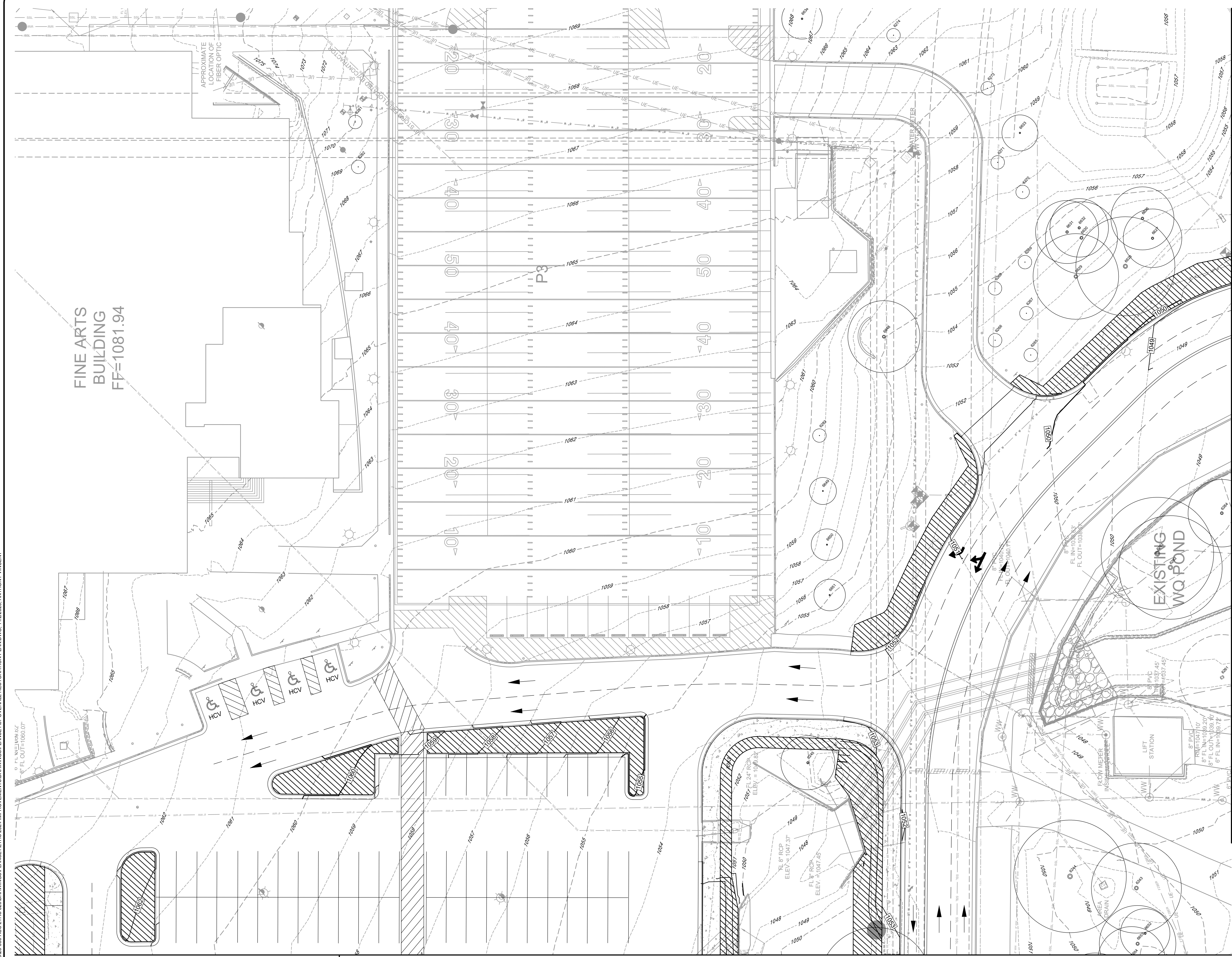
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD_OVERALL\PROJECTS\24-060-AUS-LTHS 620\DRAWINGS\PLANS\SET17\OVERALL RESTORATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT

FLUTISD OVERALL PROJECTS 2024 IMPROVEMENT DRAWINGS PLANSET 177 OVERALL RESTORATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT



FINE ARTS BUILDING
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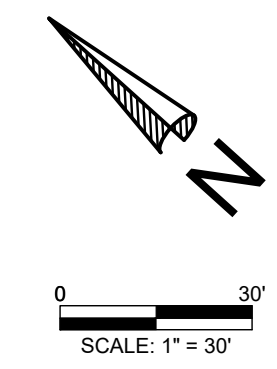
HCV
HCV
HCV
HCV

EXISTING
WQ POND

MATCH LINE SHEET 58

MATCH LINE SHEET 59

MATCH LINE SHEET 61



LEGEND

- PROPERTY BOUNDARY
- LOC LIMIT OF CONSTRUCTION
- PROP. HYDROMULCH
- PROP. SOD
- TREE TO REMAIN
- TREE TO BE REMOVED

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.
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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.
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12. THE NOTICE OF TERMINATION (NOT) FOR THIS PROJECT SHALL NOT BE SUBMITTED UNTIL THE TRAVIS COUNTY ENVIRONMENTAL INSPECTOR APPROVES CLEARANCE.

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE RESTORATION

MALONE ★ WHEELER
INC. 1975

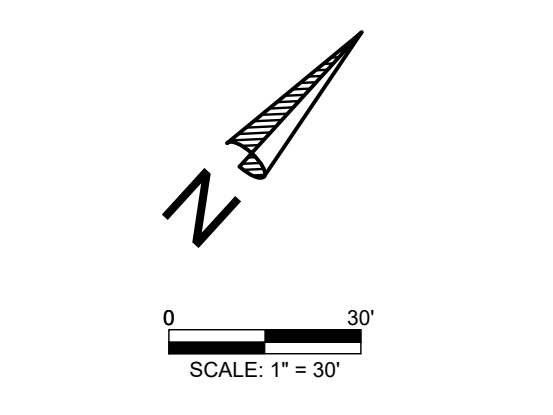
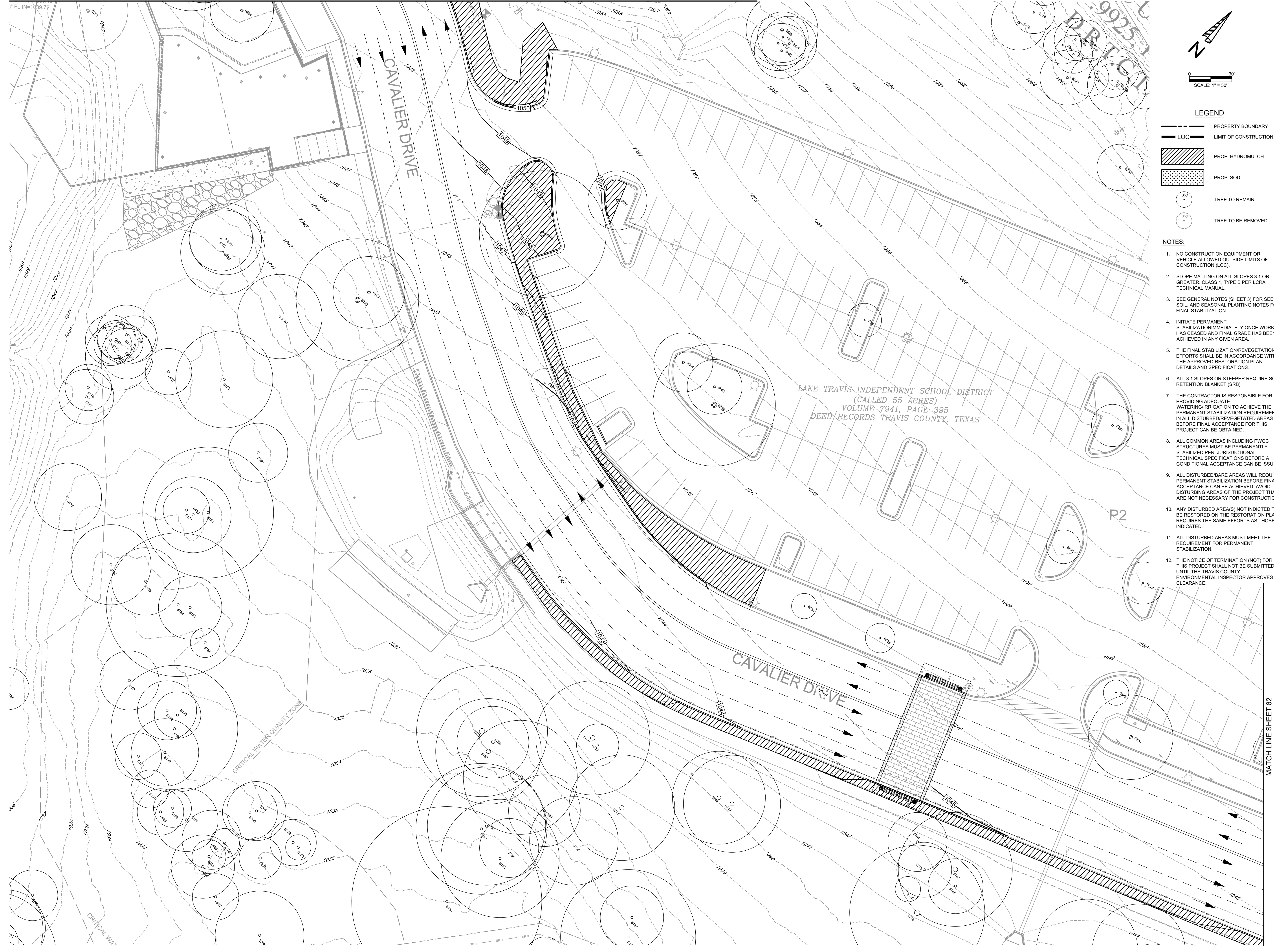
CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT

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



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\LITSD\OVERALL\PROJECTS\02-060-AUS\LTHS 620\DRAWINGS\PLANS\SET17\OVERALL RESTORATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT



- LEGEND**
- PROPERTY BOUNDARY
 - LOC LIMIT OF CONSTRUCTION
 - ▨ PROP. HYDROMULCH
 - ▤ PROP. SOD
 - TREE TO REMAIN
 - TREE TO BE REMOVED

- 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 STABILIZATION IMMEDIATELY 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.
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 12. THE NOTICE OF TERMINATION (NOT) FOR THIS PROJECT SHALL NOT BE SUBMITTED UNTIL THE TRAVIS COUNTY ENVIRONMENTAL INSPECTOR APPROVES CLEARANCE.

LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT
(CALLED 55 ACRES)
VOLUME 7941, PAGE 395
DEED RECORDS TRAVIS COUNTY, TEXAS

CRITICAL WATER QUALITY ZONE

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
CAVALIER DRIVE RESTORATION

MALONE ★ WHEELER
INC. 1976

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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DESIGN BY: SGC
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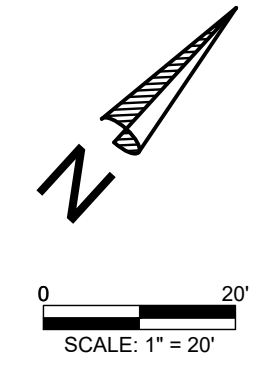
UTILS/OVERALL/PROJECTS/2024-AUS-LT/HS 620/DRAWINGS/PLANS/SET1/2024 OVERALL RESTORATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT

MATCH LINE SHEET 61



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 STABILIZATION IMMEDIATELY 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 PWOC 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.



LEGEND

- PROPERTY BOUNDARY
- LOC LIMIT OF CONSTRUCTION
- PROP. HYDOMULCH
- PROP. SOD
- TREE TO REMAIN
- TREE TO BE REMOVED

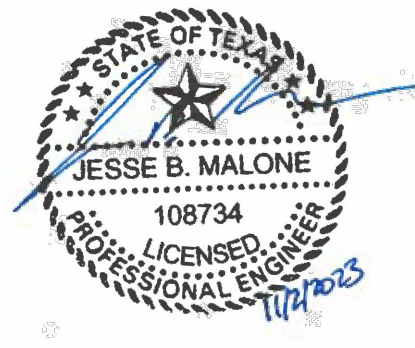
NO.	DATE	REVISION

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

CAVALIER DRIVE RESTORATION

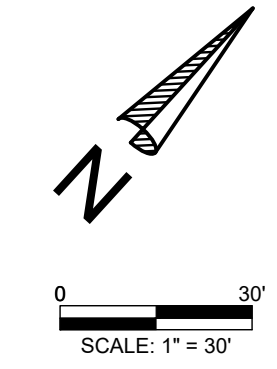
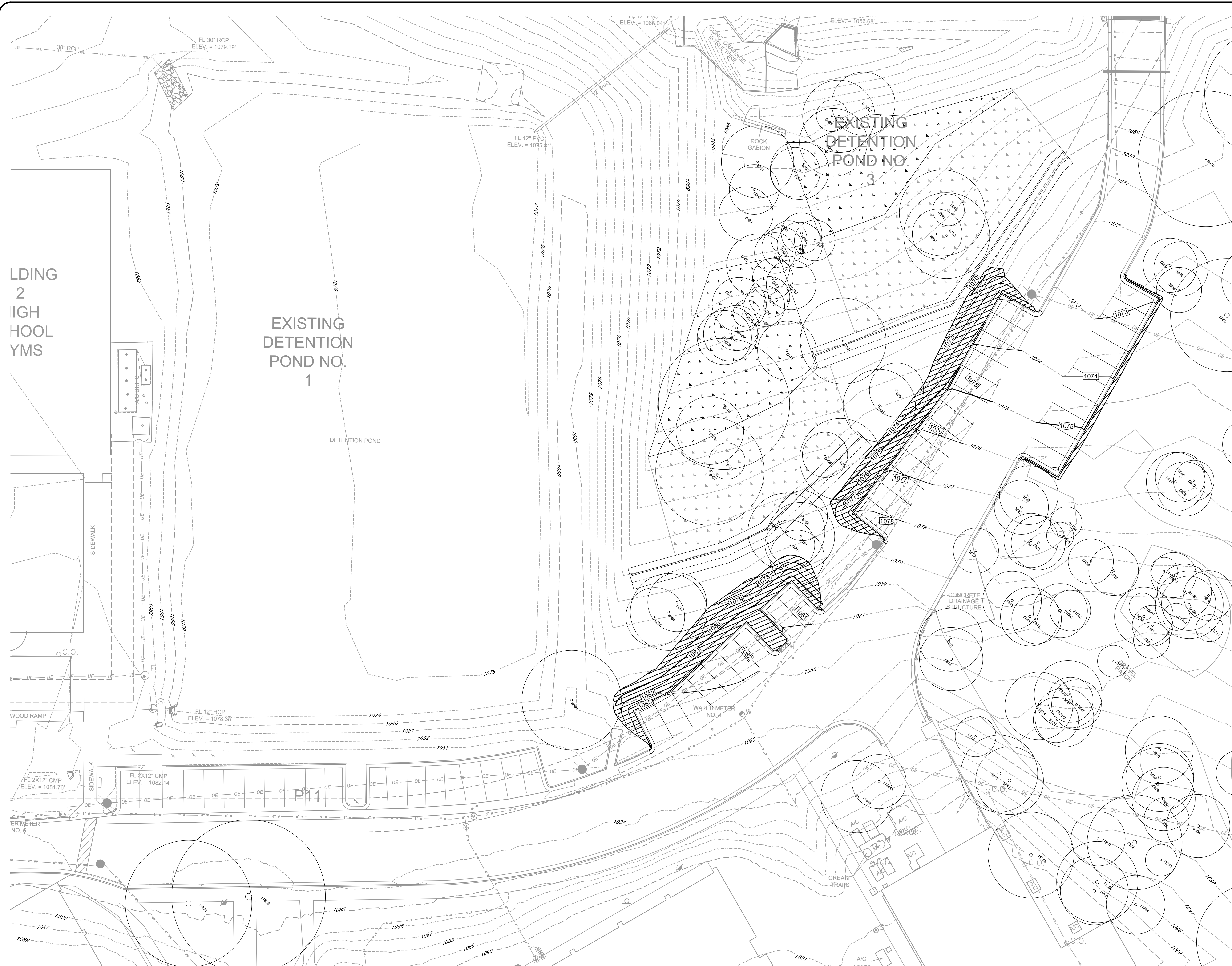
MALONE WHEELER
INC. SINCE 1976

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



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\UTSD OVERALL PROJECTS\2024-06-09-AUS-LTIS 2024 IMPROVEMENTS\DRAWINGS\PLANS\17 OVERALL RESTORATION PLAN.DWG, 11/2/2023, ANTHONY VINCENT



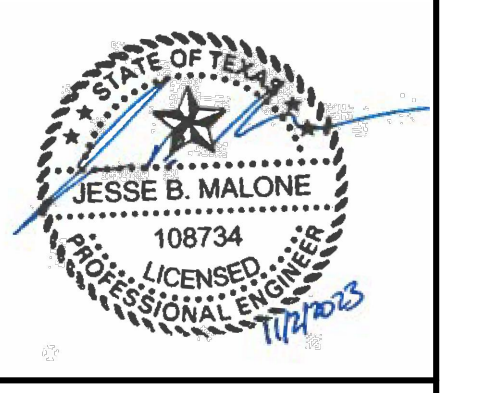
- LEGEND**
- PROPERTY BOUNDARY
 - LOC LIMIT OF CONSTRUCTION
 - PROP. HYDROMULCH
 - PROP. SOD
 - TREE TO REMAIN
 - TREE TO BE REMOVED

- 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 STABILIZATION IMMEDIATELY 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 PWOC 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 INDICATED 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.

NO.	DATE	REVISION	BY

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH
BUS LOOP RESTORATION

MALONE ★ WHEELER
INC. SINCE 1975
 CIVIL ENGINEERING ★ DEVELOPMENT CONSULTING ★ PROJECT MANAGEMENT
 5113 Southwest Pkwy, Suite 260
 Austin, Texas 78735
 Phone: (512) 899-0601 Fax: (512) 899-0655
 Firm Registration No. F-786

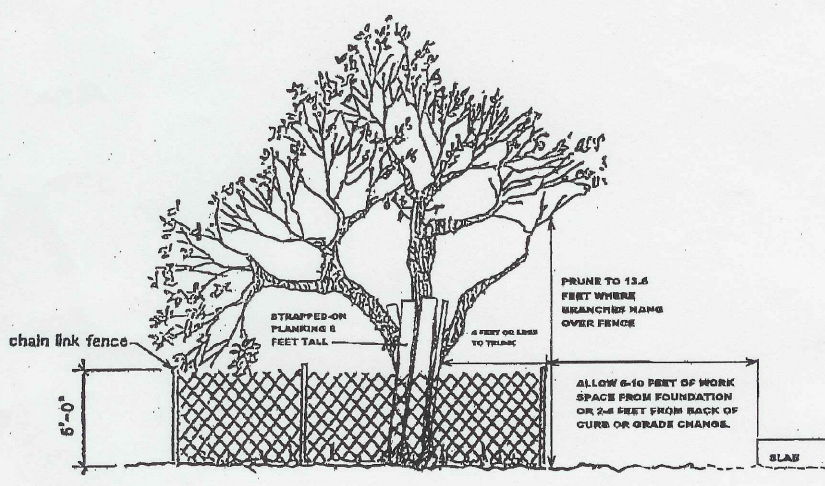


DESIGN BY: SGC
 CHECKED BY: AV
 APPROVED BY: JBM
 DATE: 11/2/2023

Development Ordinance – EXHIBIT U
Tree Survey and Protection Specifications

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

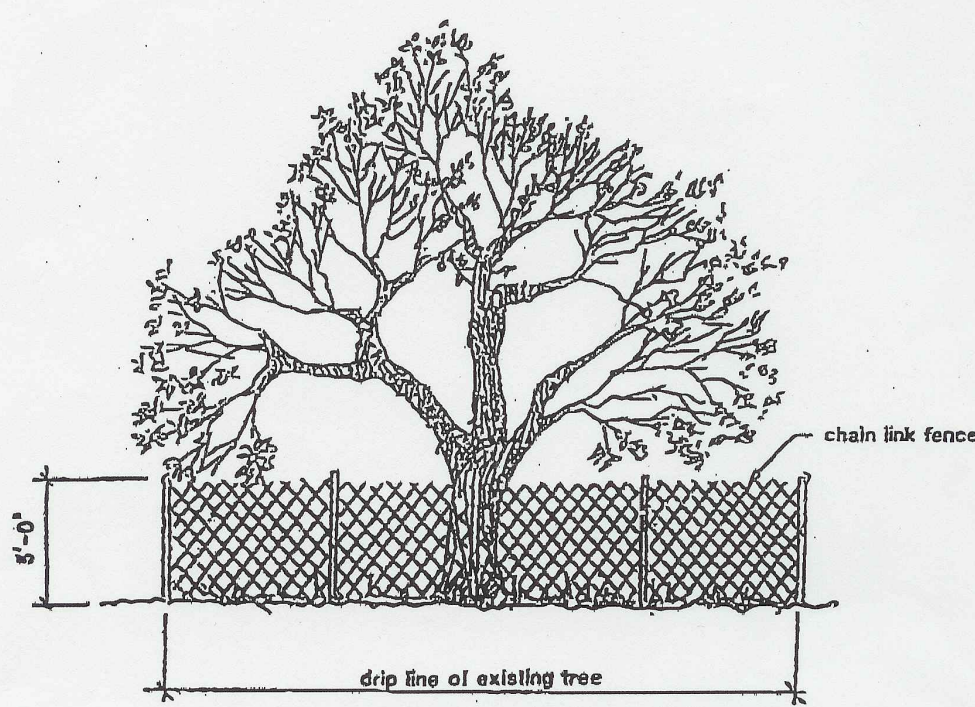
- Exceptions to installing fences at tree drip lines may be permitted in the following cases:
- Where there is to be an approved grade change, impermeable paving surface, tree well, or other such site development, erect the fence approximately 2 to 4 feet behind the area in question.
 - Where permeable 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).
 - 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.
 - Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strap-on planking to a height of 6 feet (or to the limits of lower branching) in addition to the reduced fencing provided.
 - 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)

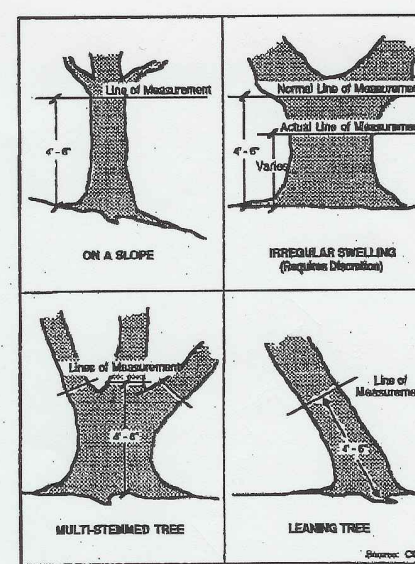
Development Ordinance – EXHIBIT U
Tree Survey and Protection Specifications

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

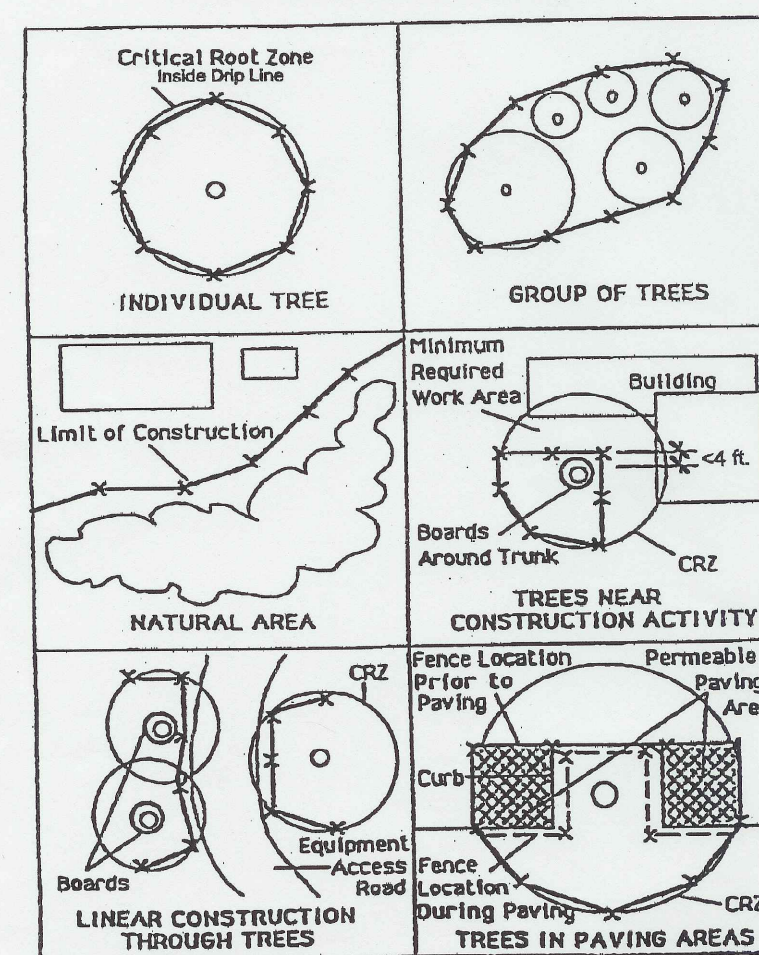


MEASURING TREE DIAMETERS
(Section 10.04, Exhibits B, C, D, F and G)

- Measure tree diameters at a height of 4-1/2 feet (4 feet 8 inches).
- If the tree forks at 4-1/2 feet, measure below the swell.
- 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")
- 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.
 - Measure all trunks larger than 6 inches at a height of 4-1/2 feet and add for total diameter inches.
 - 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.
- 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."
 - Only the three 8 inch stems would count toward the total.
 - Show the total diameter inches in the tree list. Do not show as "8" 8" 8" SD" or "8 inch triple oak", etc.
- Clusters of many small stems poking from the ground do not need to be measured or shown on the tree survey.
 - 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

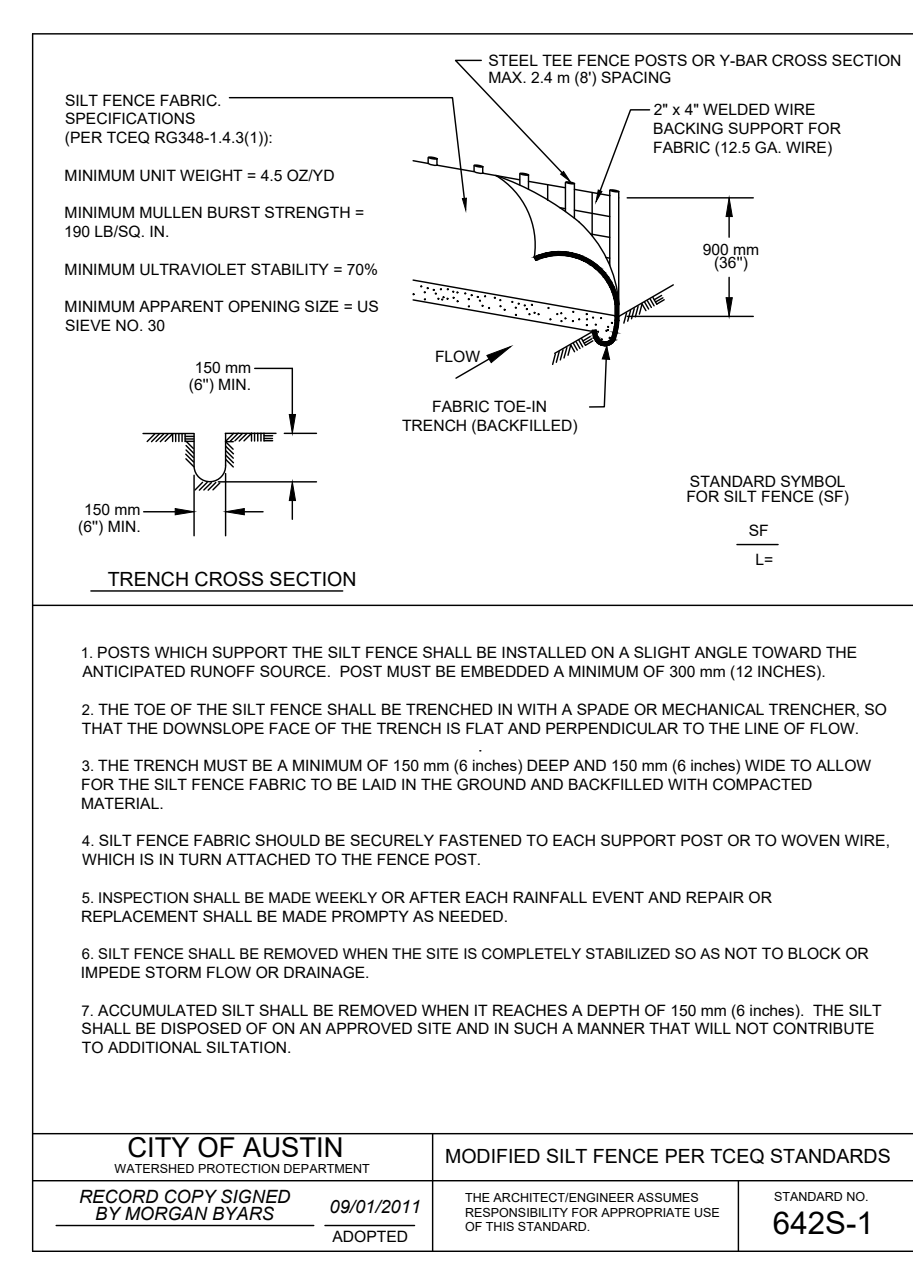
TREE SURVEY SPECIFICATIONS
(Section 10.04, Exhibits B, C, D, F and G)

- All General Development Plans, Preliminary Plans, Final Plans, Subdivision Improvement Plans and Site Development Plans require an accurate tree survey which meets the following specifications:
- The surveyor should locate and measure the following trees according to City of Lakeway standards:
 - All hardwood trees six (6) inches and larger in diameter.
 - All trees of any size of the following species which is rare in Lakeway: Texas Madrone (*Ashtabula xalapensis var. texana*)
 - All trees should be tagged and numbered on site.
 - The tree survey plat should include a tree list showing tag number, DBH and species.
 - The tree list should show the total diameter inches of multi-trunk trees, with the exception of Texas Madrone.
 - Texas Madrone should be shown in the tree list and on the survey with an approximate height and an actual (not calculated) drip line.
 - 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.
 - Example: a 10 inch diameter oak would show a calculated drip line with a 10 foot radius.
 - The tree survey plat must contain a surveyor's certification (Exhibit I).
 - 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.

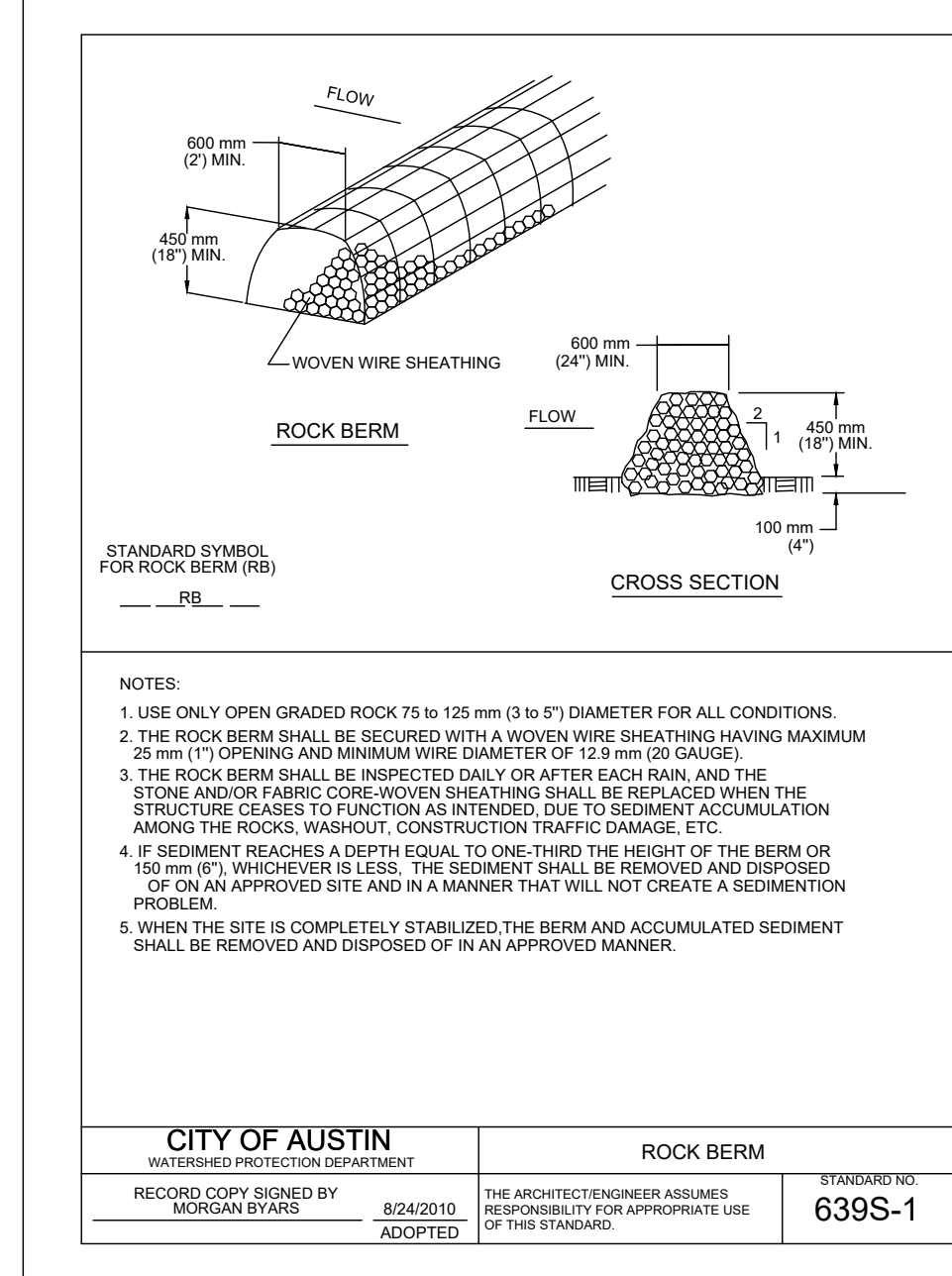


CITY OF AUSTIN
WATERWAYS DEPARTMENT

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

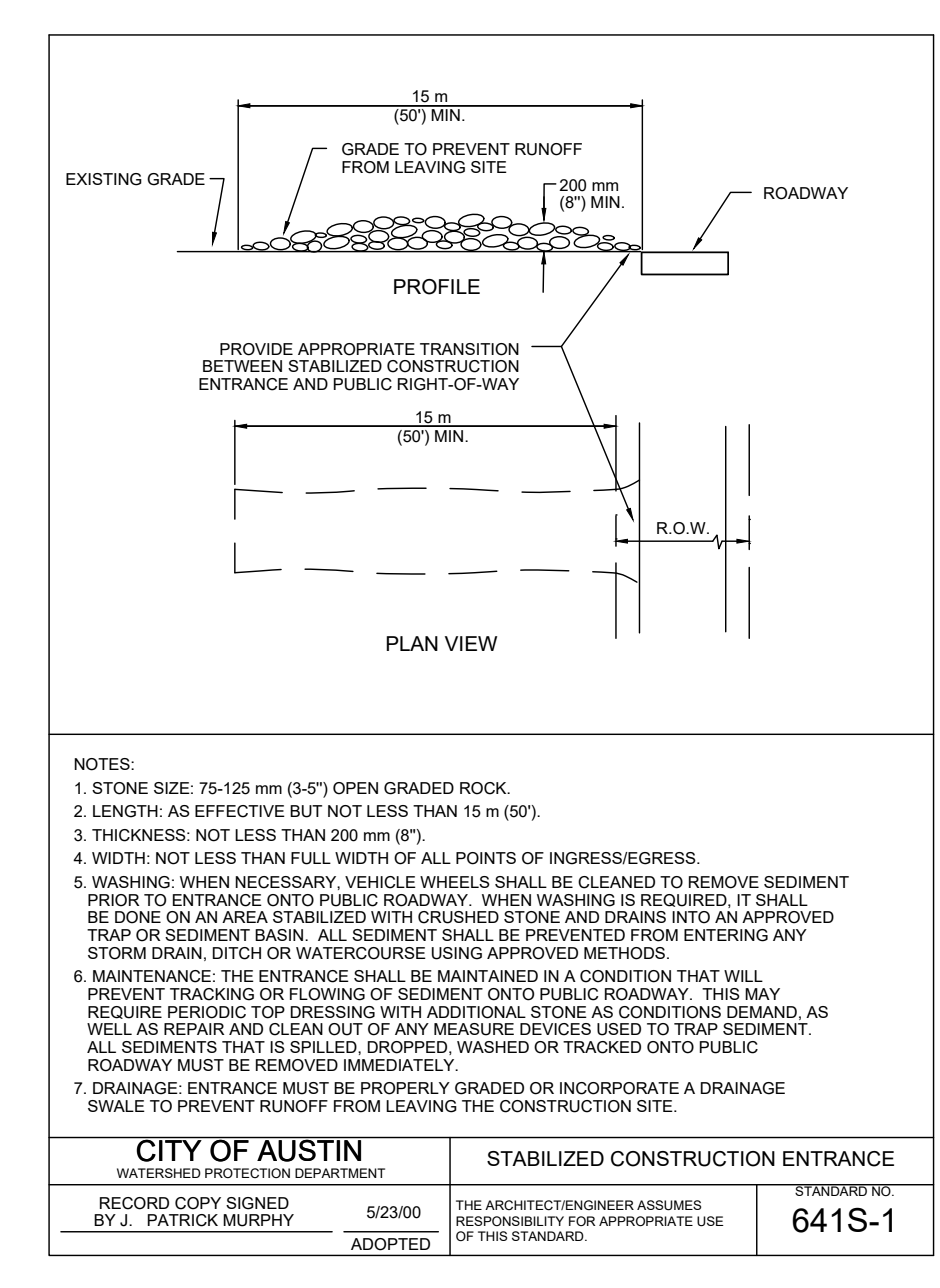


CITY OF AUSTIN
WATERWAYS DEPARTMENT

RECORD COPY SIGNED BY MORGAN BYARS 08/24/2010 ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 639S-1

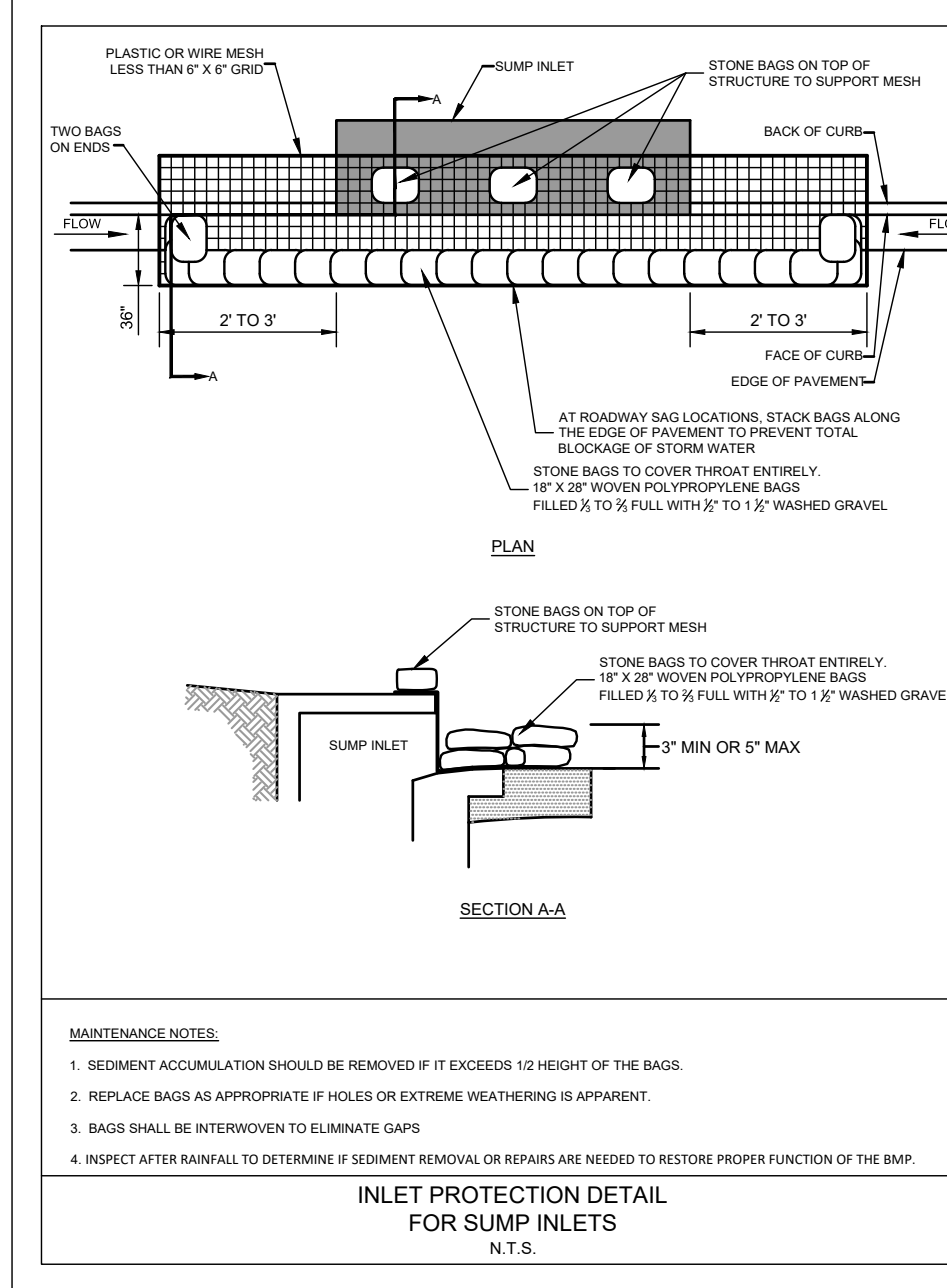


CITY OF AUSTIN
WATERWAYS DEPARTMENT

RECORD COPY SIGNED BY J. PATRICK MURPHY 5/23/00 ADOPTED

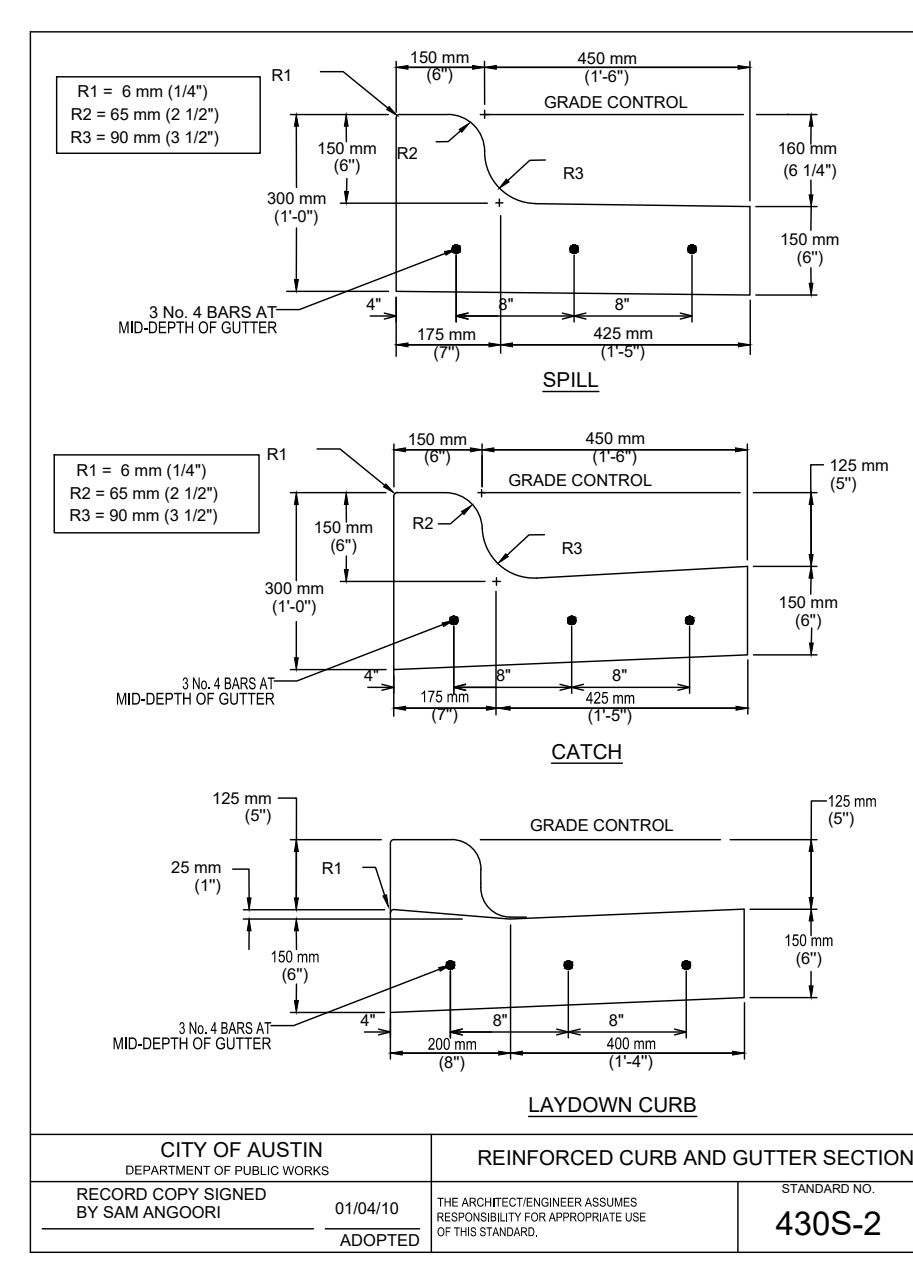
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 641S-1



Maintenance Notes:

- SEDIMENT ACCUMULATION SHOULD BE REMOVED IF IT EXCEEDS 12 HEIGHT OF THE BAGS.
- REPLACE BAGS AS APPROPRIATE IF ELIMINE OR EXTREME WEATHERING IS APPARENT.
- BAGS SHALL BE INTERVENED TO ELIMINATE GAPS
- INSPECT AFTER ANNUAL TO DETERMINE IF SEDIMENT REMOVAL OR REPAIRS ARE NEEDED TO RESTORE PROPER FUNCTION OF THE BMP.

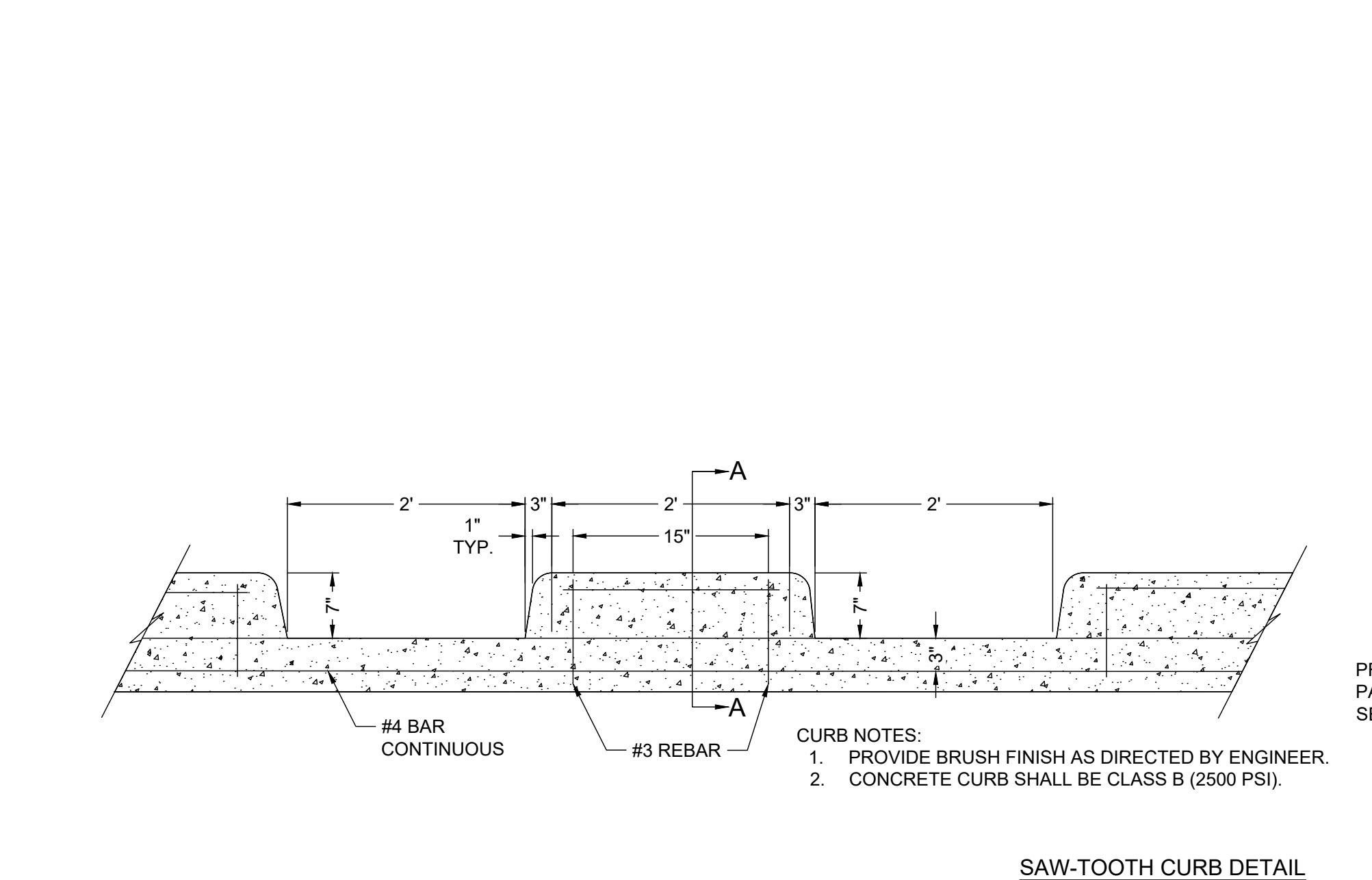


CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

RECORD COPY SIGNED BY SAM ANGOUZI 01/04/10 ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 430S-2

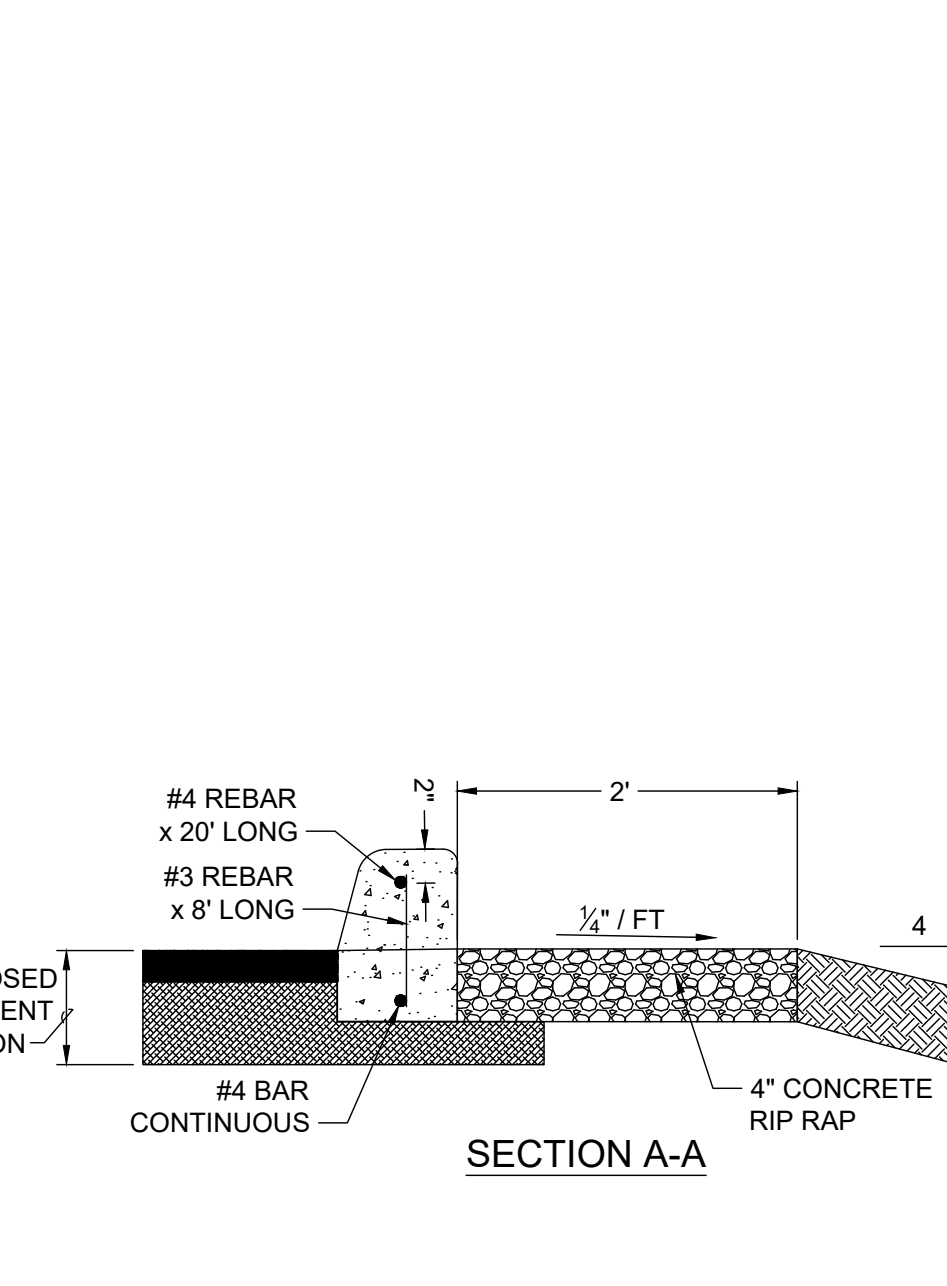


CITY OF AUSTIN
WATERWAYS DEPARTMENT

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



Maintenance Notes:

- SEDIMENT ACCUMULATION SHOULD BE REMOVED IF IT EXCEEDS 12 HEIGHT OF THE BAGS.
- REPLACE BAGS AS APPROPRIATE IF ELIMINE OR EXTREME WEATHERING IS APPARENT.
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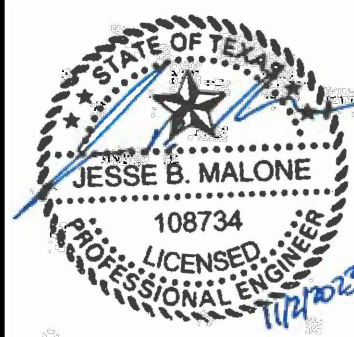
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

STANDARD DETAILS

MALONE WHEELER INC.
SINCE 1975

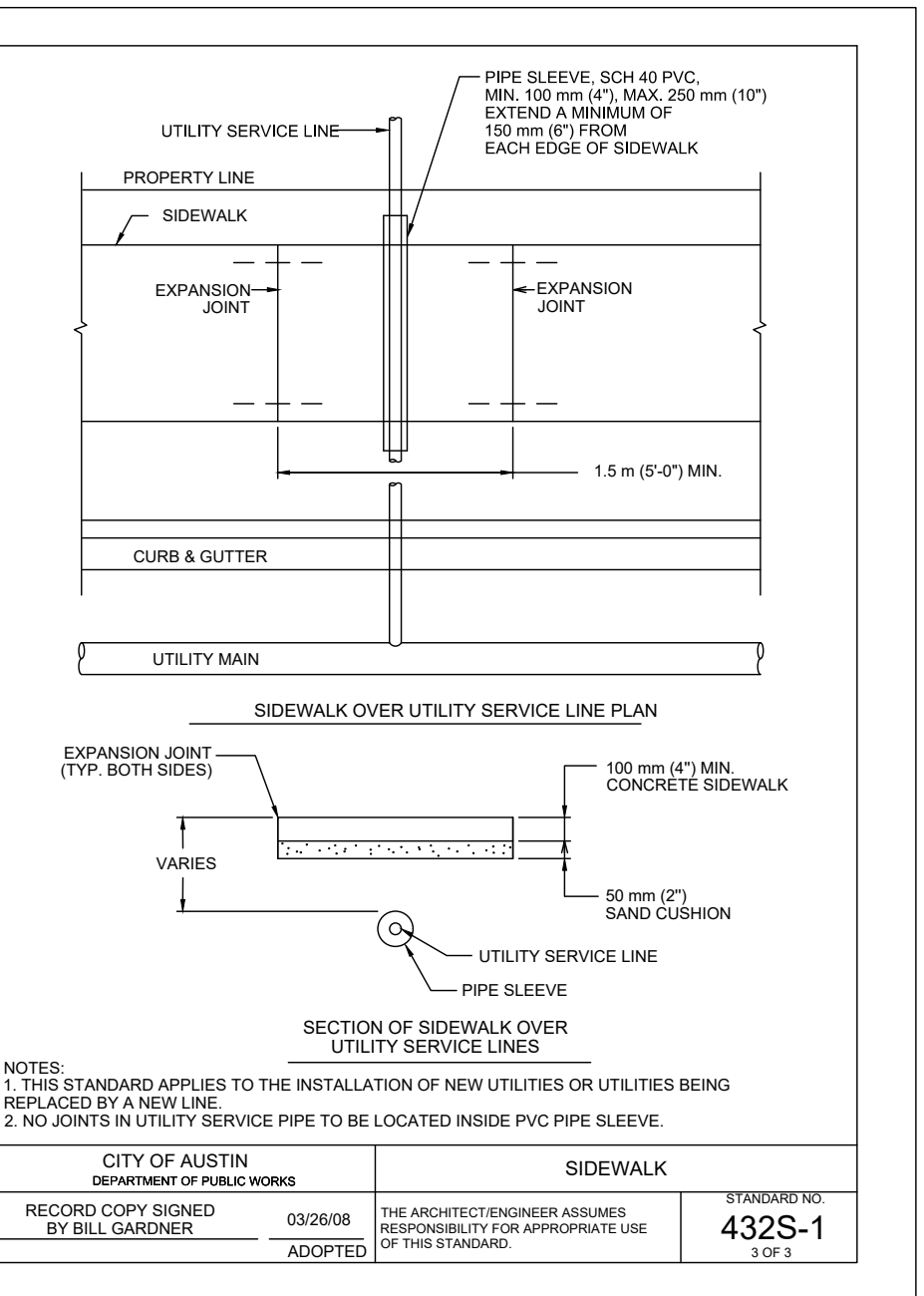
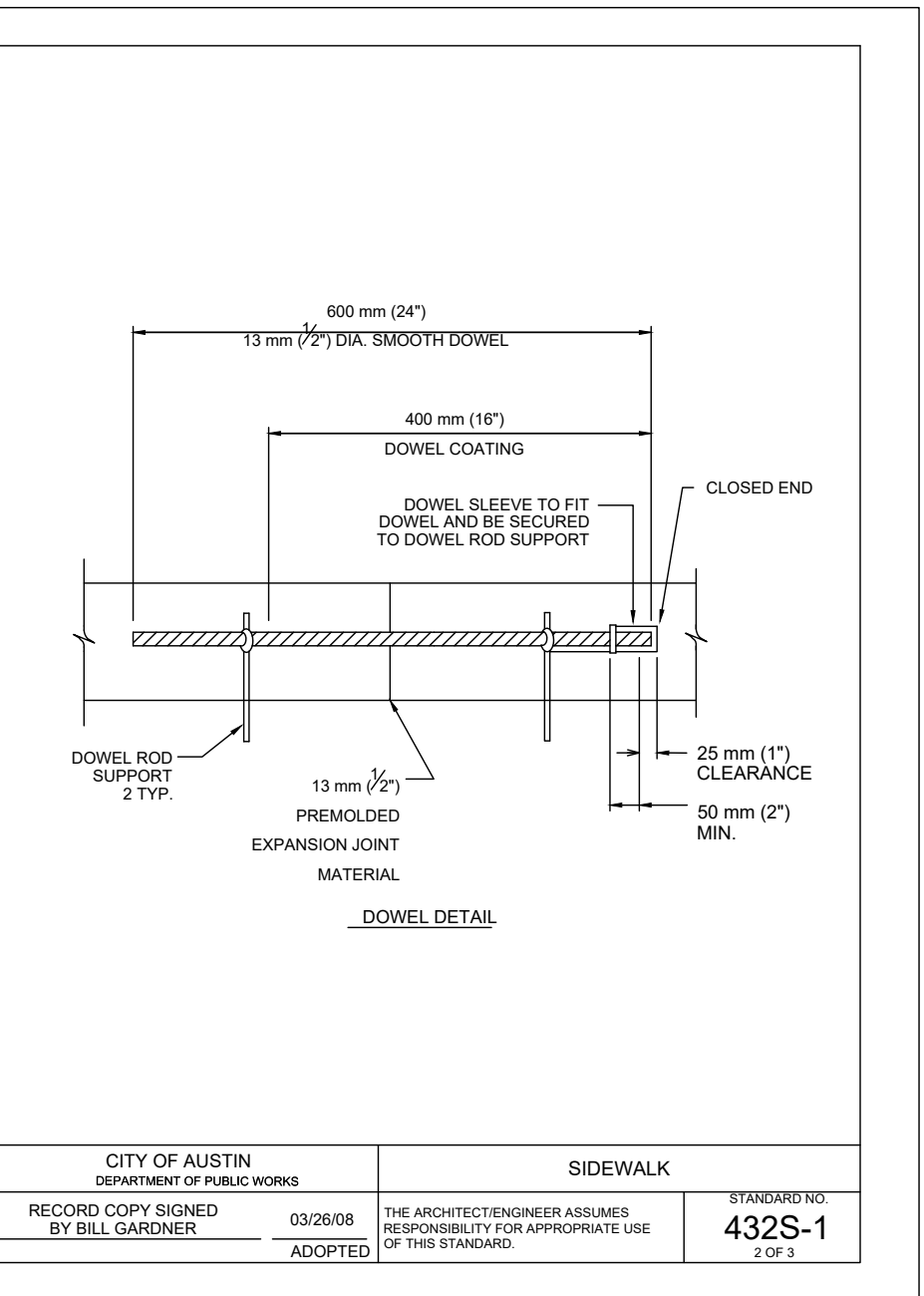
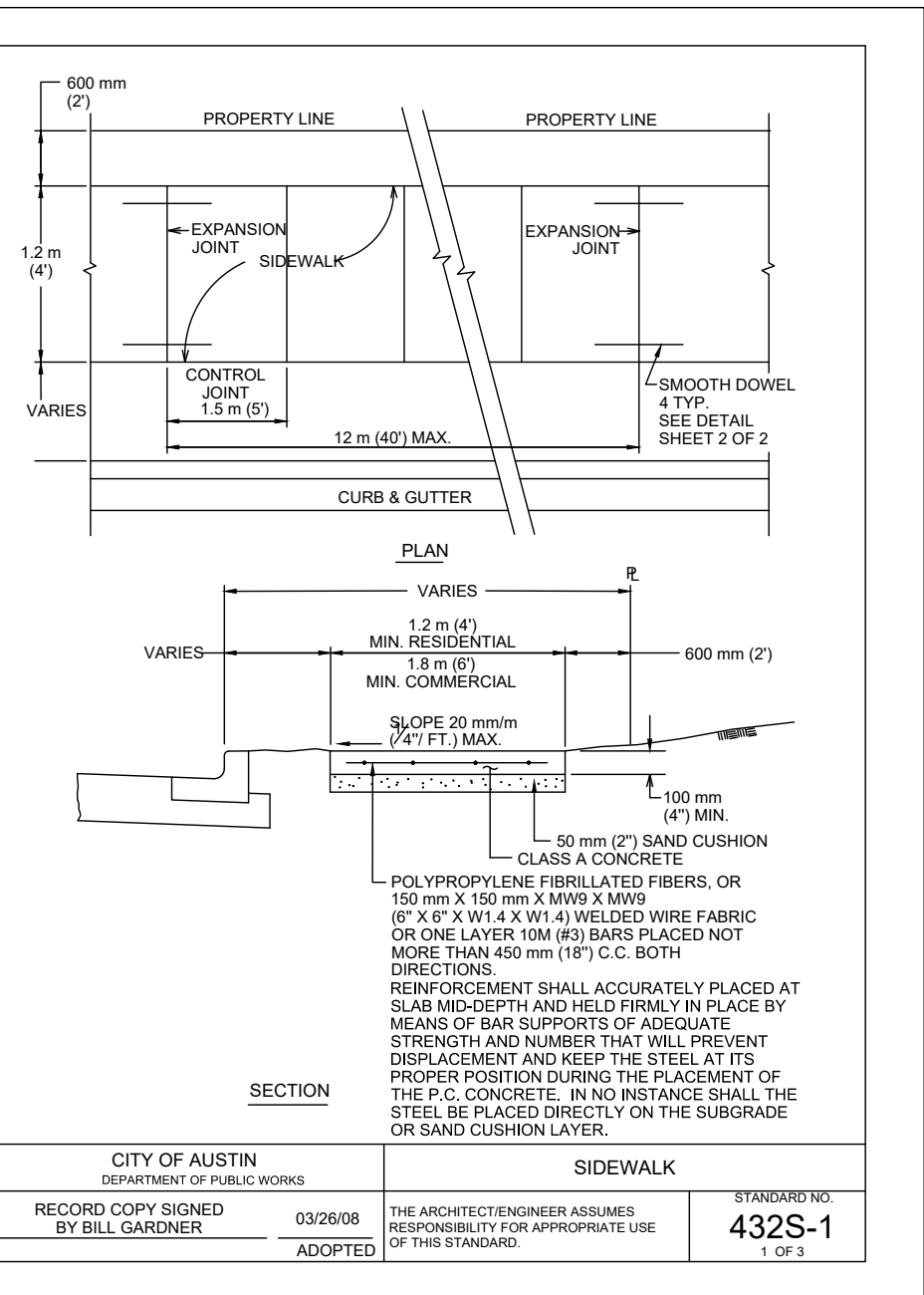
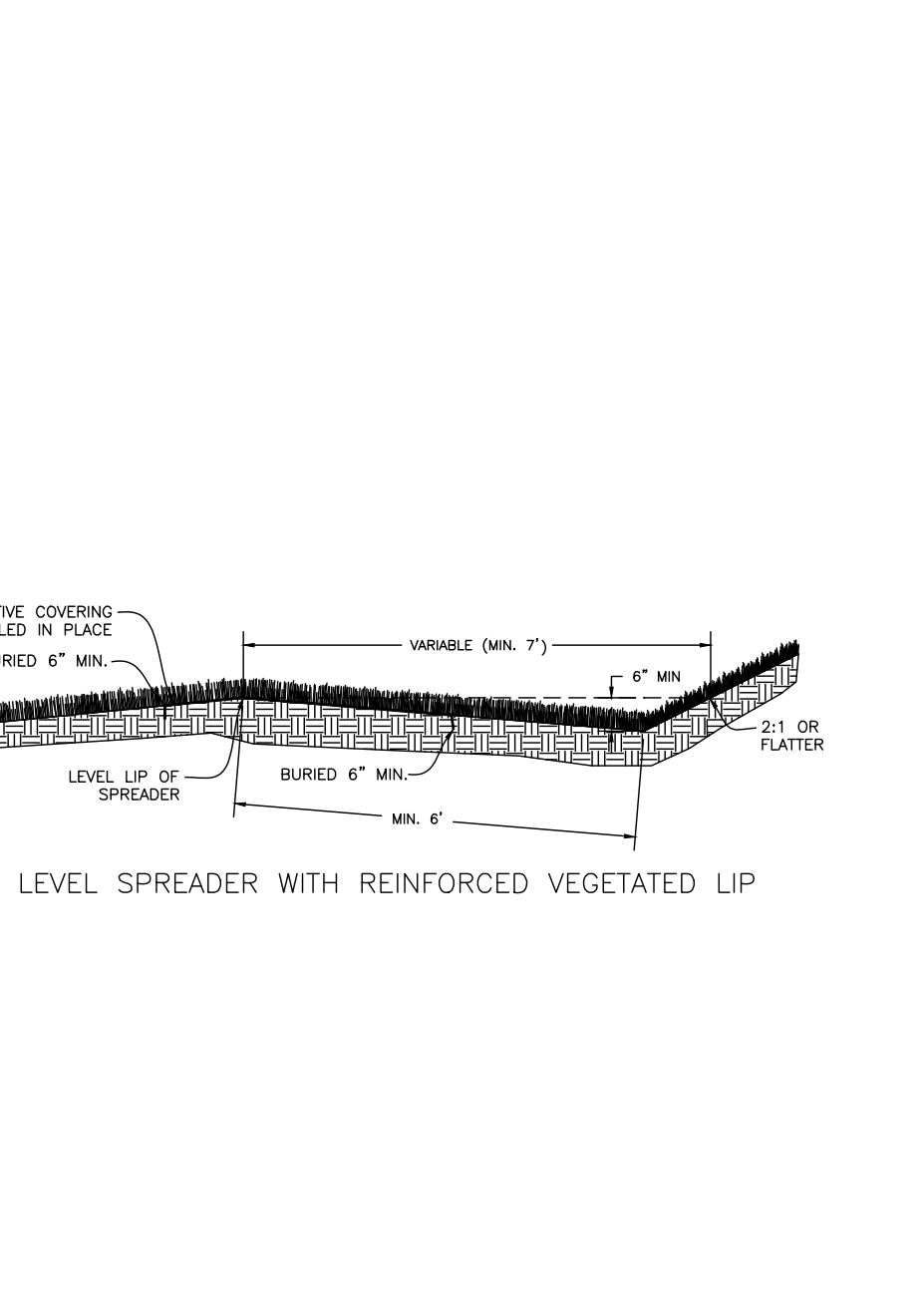
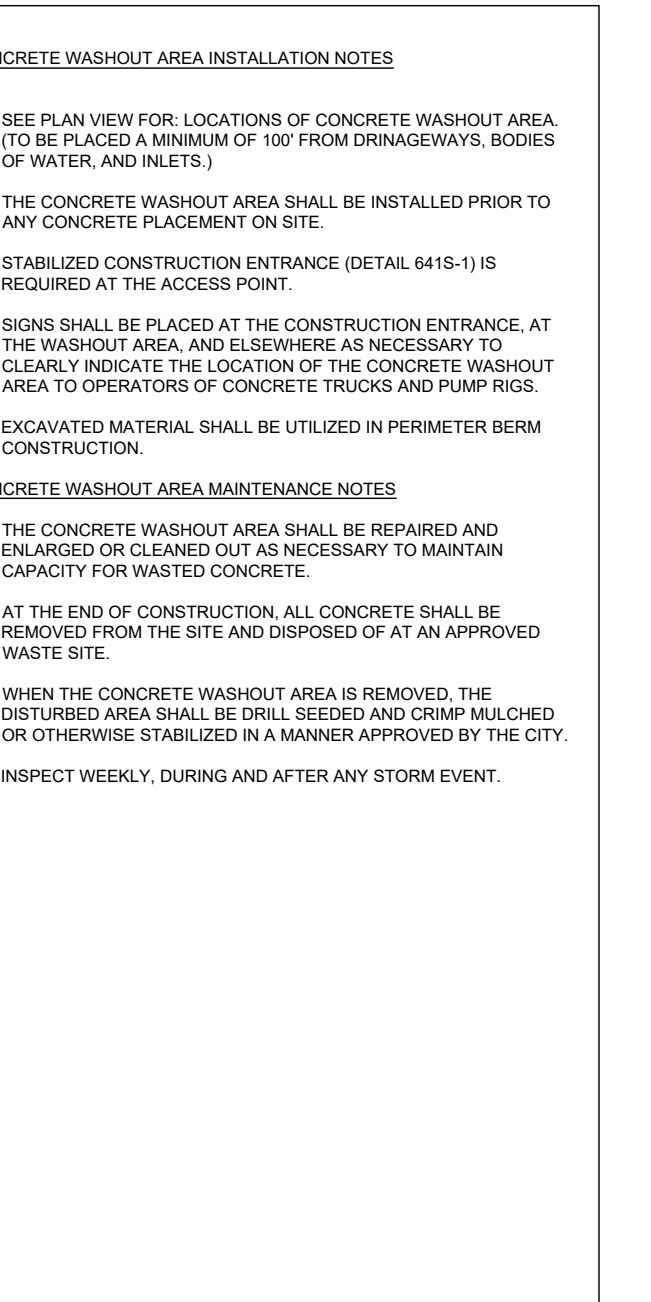
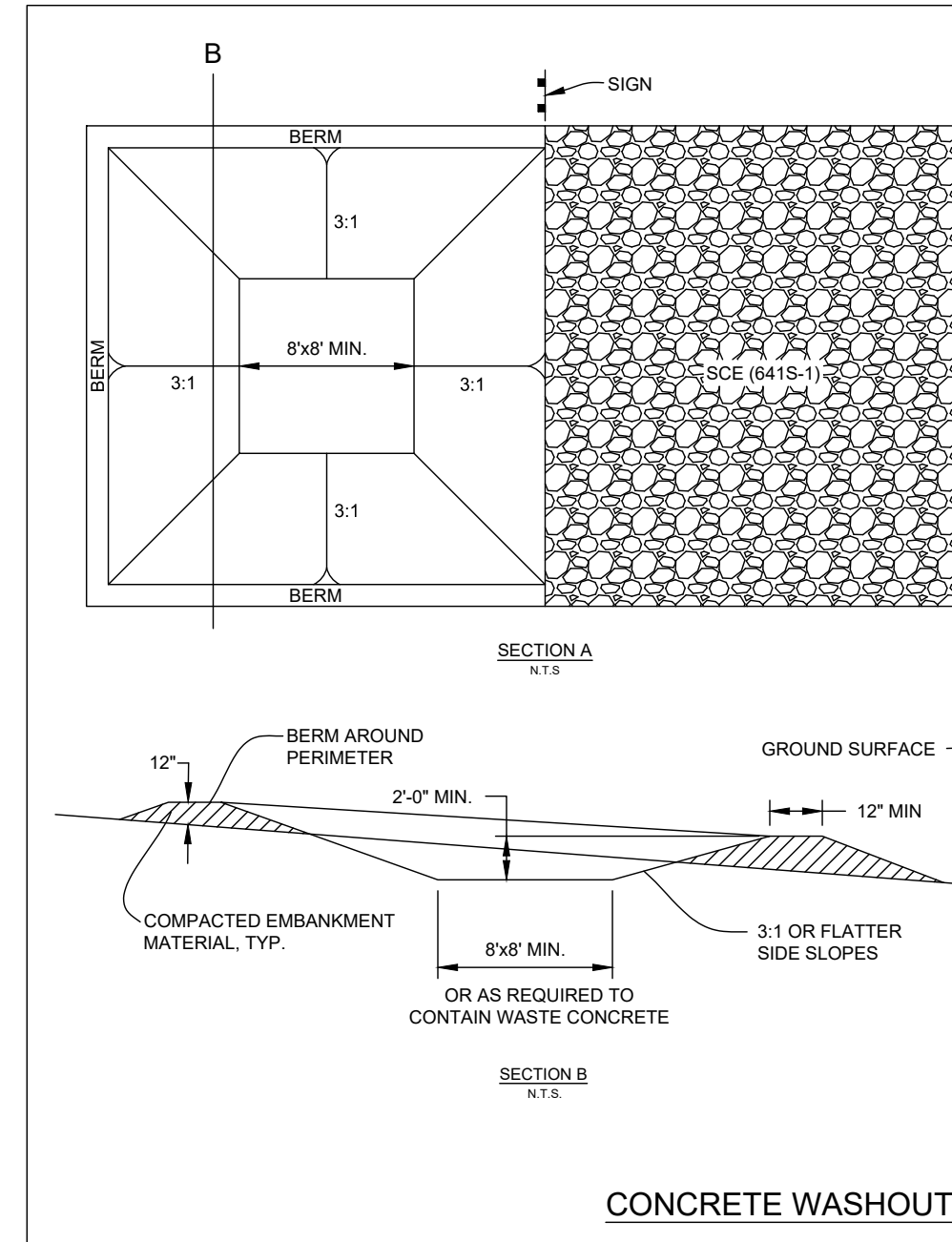
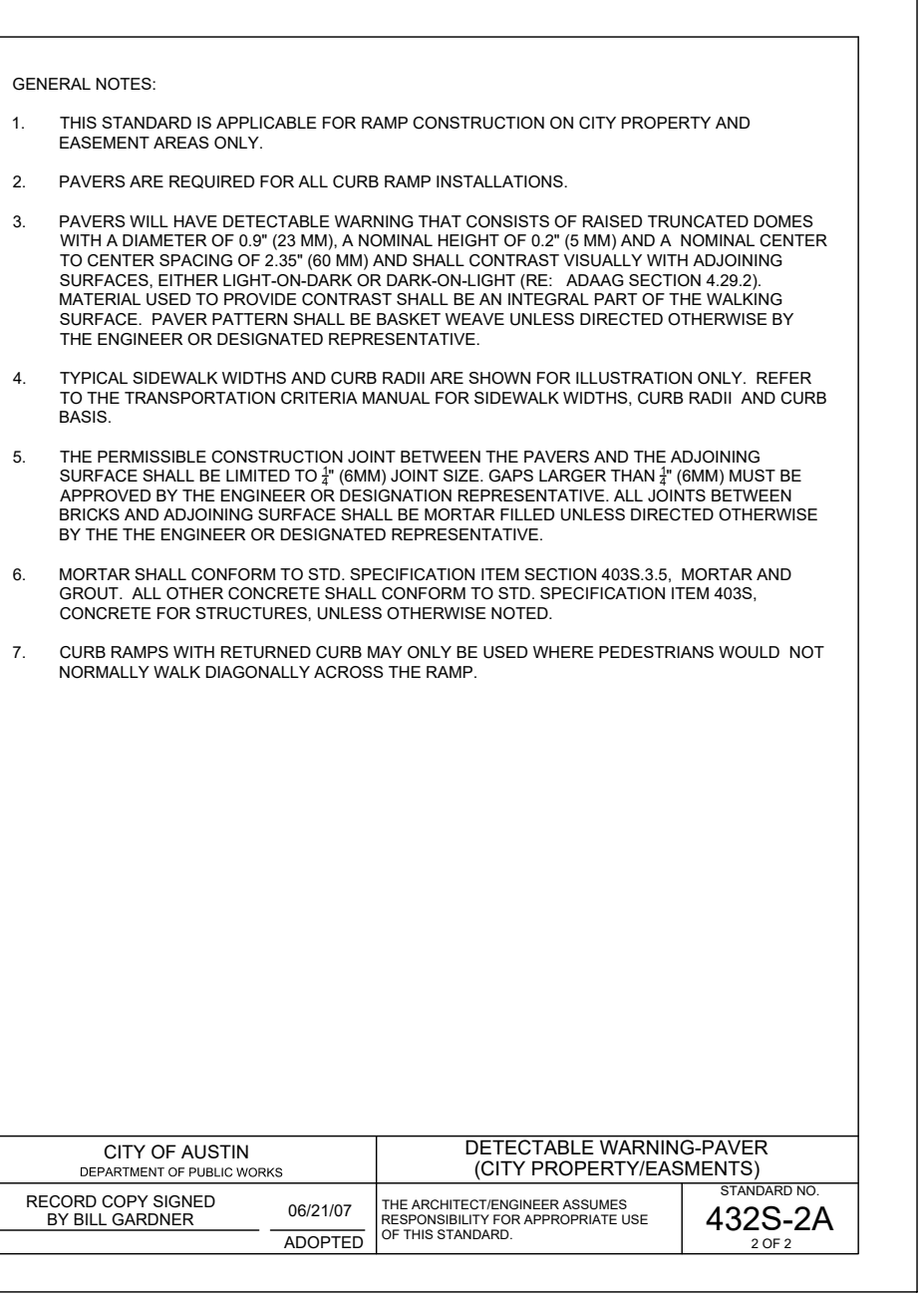
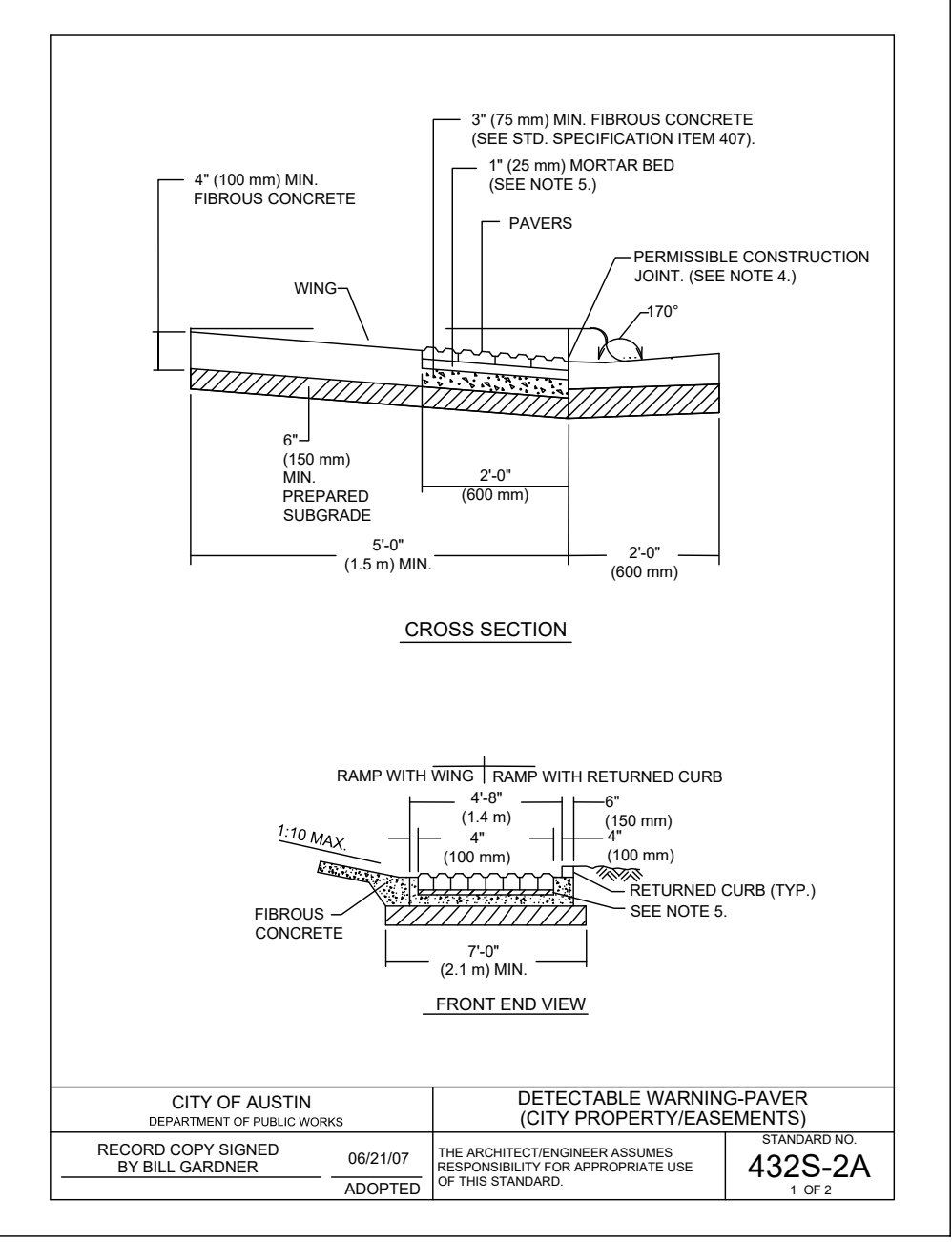
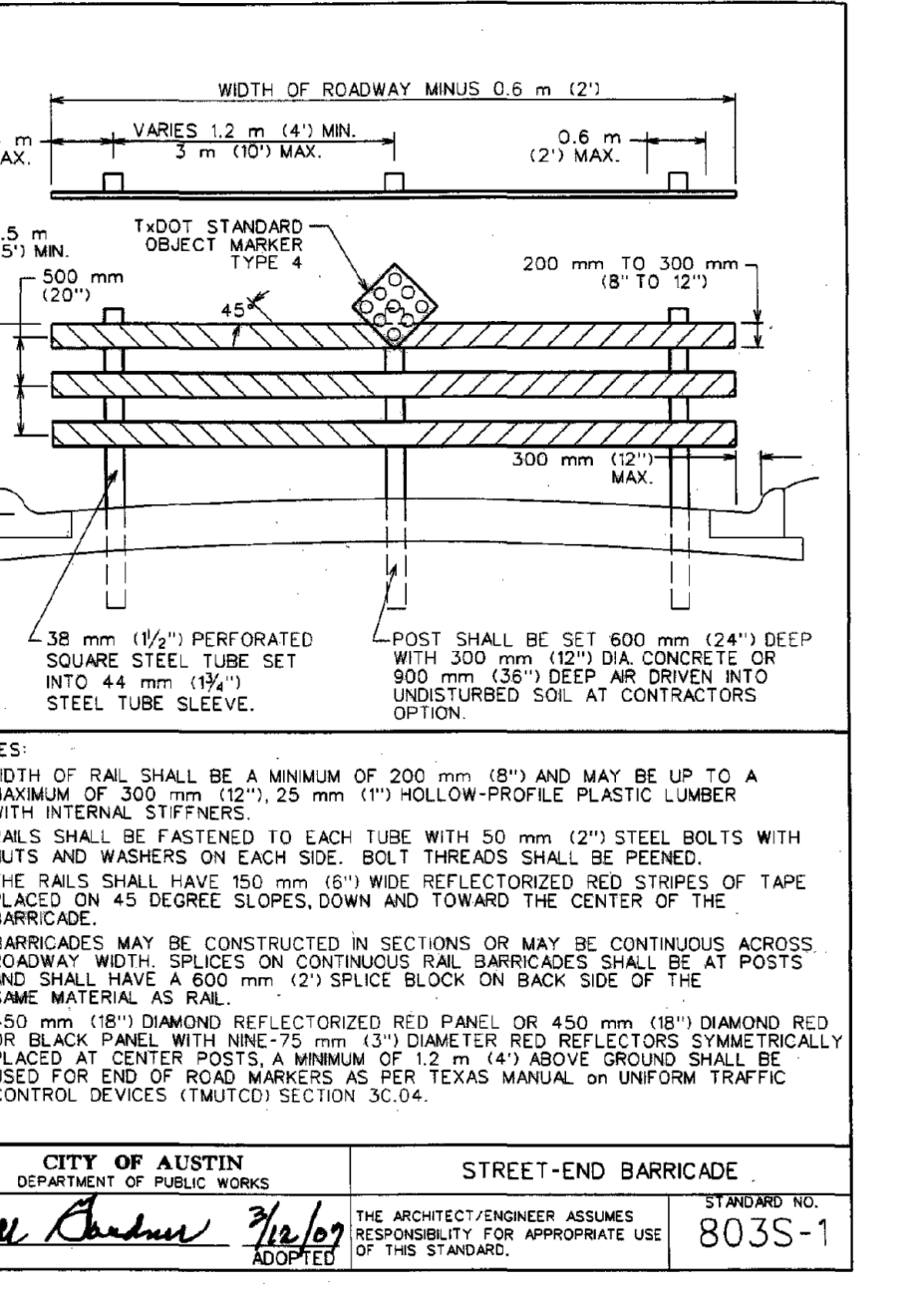
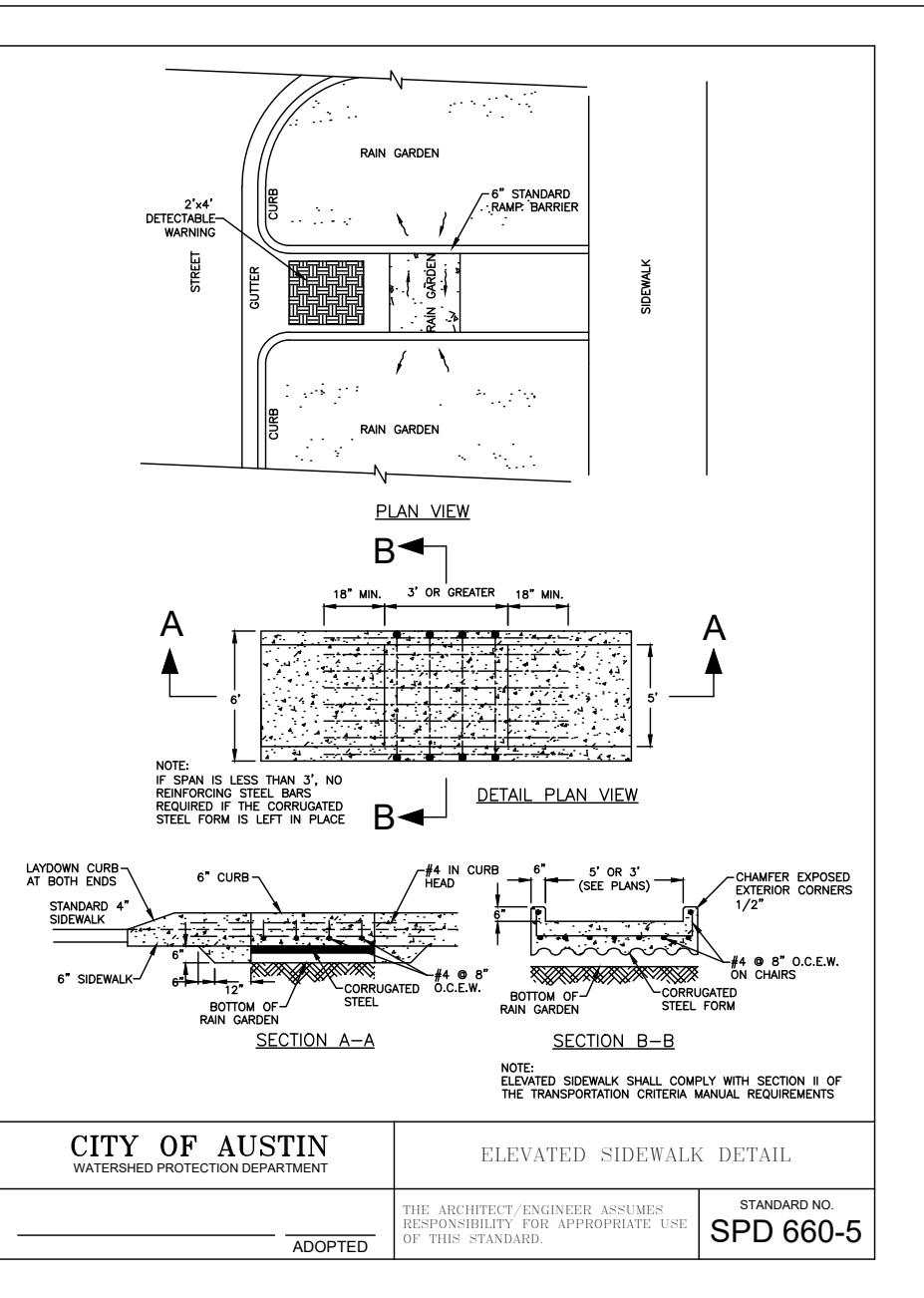
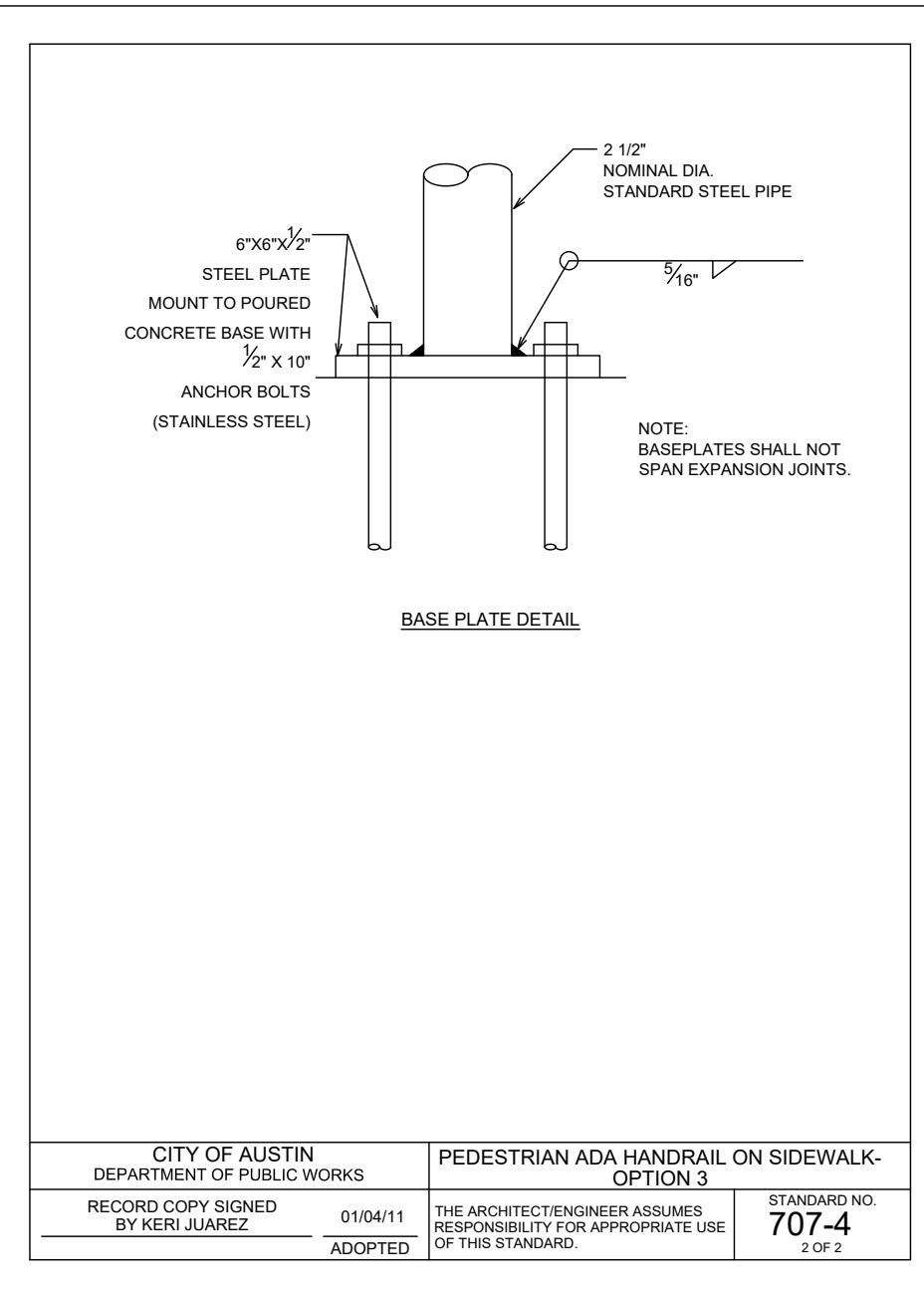
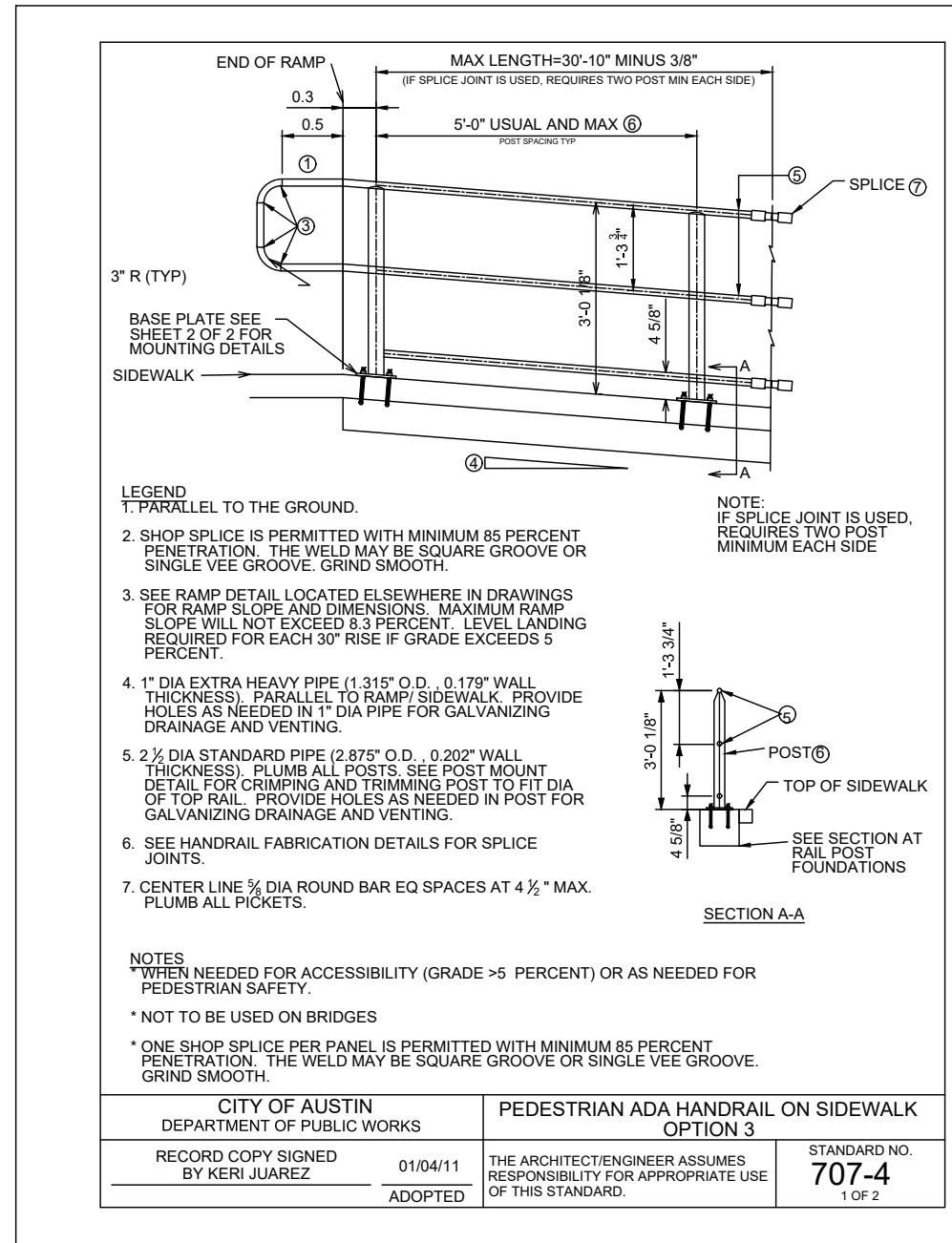
CIVIL ENGINEERING • DEVELOPMENT CONSULTING • PROJECT MANAGEMENT

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



DESIGN BY: SGC
CHECKED BY: AV
APPROVED BY: JBM
DATE: 11/2/2023

F:\LISD OVERALL\PROJECTS\2024-AUS-LTHS 620\DRAWINGS\PLANS\TDS 2024 IMPROVEMENT\DRAWINGS\PLANS\TDS 2024 PHASE 2\STANDARD DETAILS.DWG, 11/2/2023, ANTHONY YINCENT



LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

STANDARD DETAILS

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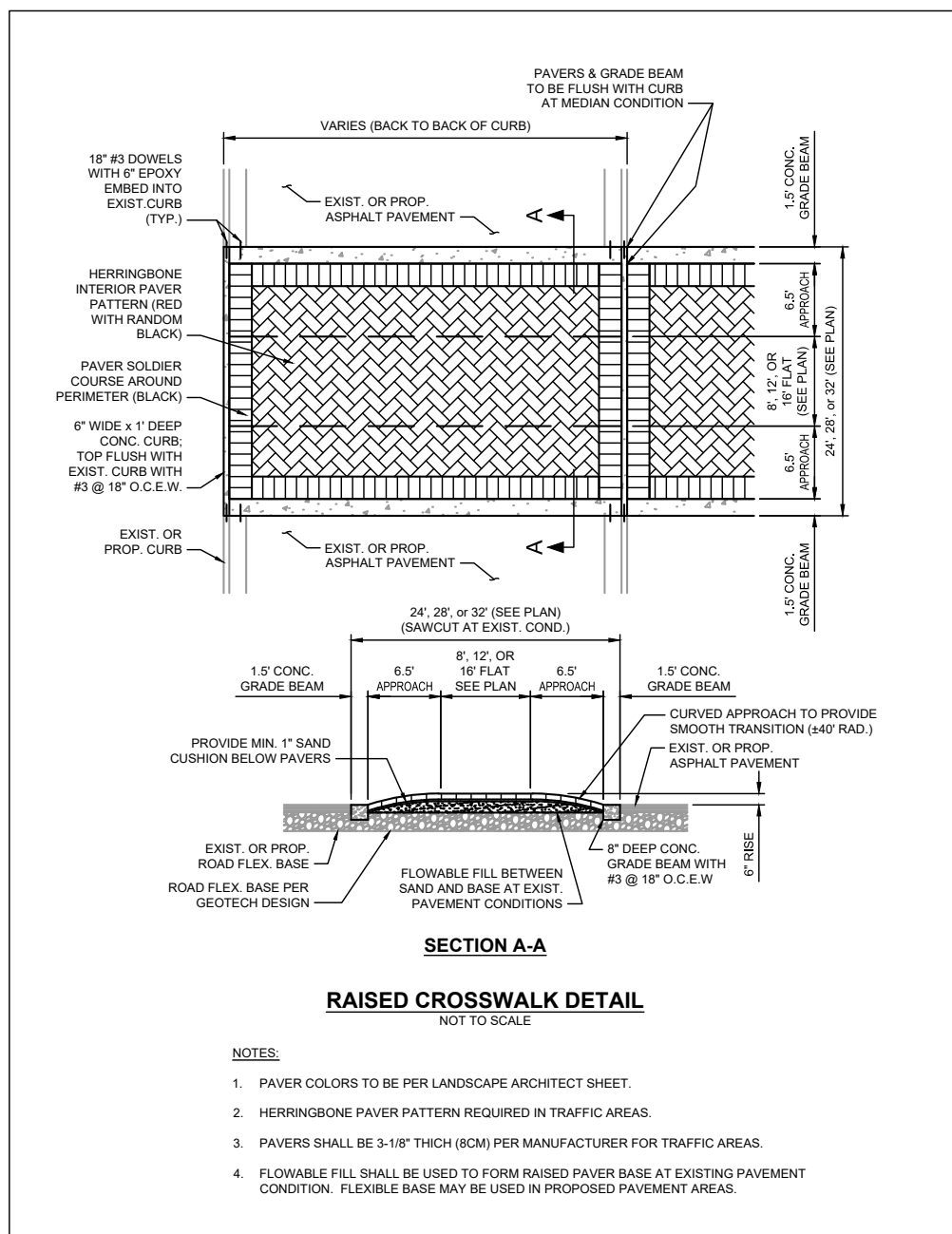
5113 Southwest Pkwy, Suite 260
Austin, Texas 78735
Phone: (512) 899-0601 Fax: (512) 899-0655
Firm Registration No. F-786

JESSE B. MALONE
108734
LICENSED PROFESSIONAL ENGINEER
TYP

DESIGN BY: SGC
CHECKED BY: JV
APPROVED BY: JBM
DATE: 11/2/2023

SHEET 67
OF 69

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**R-4999
HEAVY DUTY TRENCH**

Materials: All forms and gaskets are furnished standard in gray iron, meeting ASTM A48 Class 20-B for heavy-duty use. For extra heavy-duty use or superior durability requirements, use an ductile iron A152 and Part Gaskets on page 236.

Normal requirements 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 light duty could be changed to heavy duty use conditions at an unspecified later date.

Dimensions in inches

Un-Banded Catalog No.	A	B	C	Type A	Type C	Type D	Type P	Type Q
R4999-00	8	12	0	x	x	x	x	x
R4999-01	12	12	0	x	x	x	x	x
R4999-02	12	12	12	x	x	x	x	x
R4999-03	12	12	12	x	x	x	x	x
R4999-04	12	12	12	x	x	x	x	x
R4999-05	12	12	12	x	x	x	x	x
R4999-06	12	12	12	x	x	x	x	x
R4999-07	12	12	12	x	x	x	x	x
R4999-08	12	12	12	x	x	x	x	x
R4999-09	12	12	12	x	x	x	x	x
R4999-10	12	12	12	x	x	x	x	x
R4999-11	12	12	12	x	x	x	x	x

General comments shown may not apply to all drawings. See each drawing for details and dimensions. Use of a different color and style, if you project the design, indicates a modification or a different standard or product engineering.

Standard dimensions shown in parentheses. Check this detail also showing for dimensions. Dimensions are in inches unless otherwise noted.



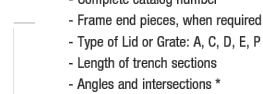
Marking Type C trench. Trench sections are furnished in 24" standard length.

Note: Type C trench grate is perpendicular to the trench run. In Type C and Q grates the slots are parallel to the trench run.

Read Carefully Before Ordering
The various trench sections are available with a number of alternatives. It is important to review all of the available options and specify your requirements fully. Your order will be entered correctly and promptly if it includes the following information:

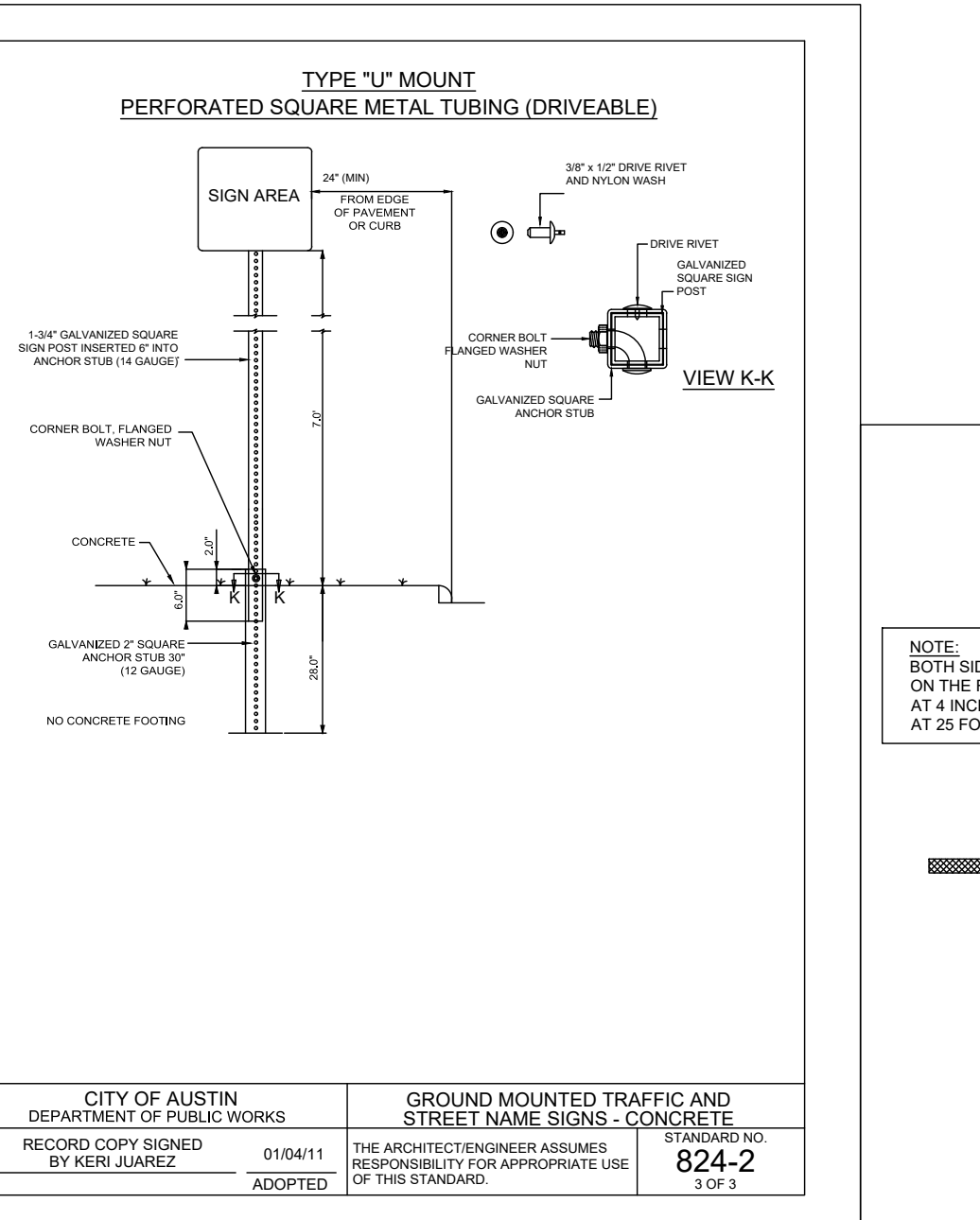
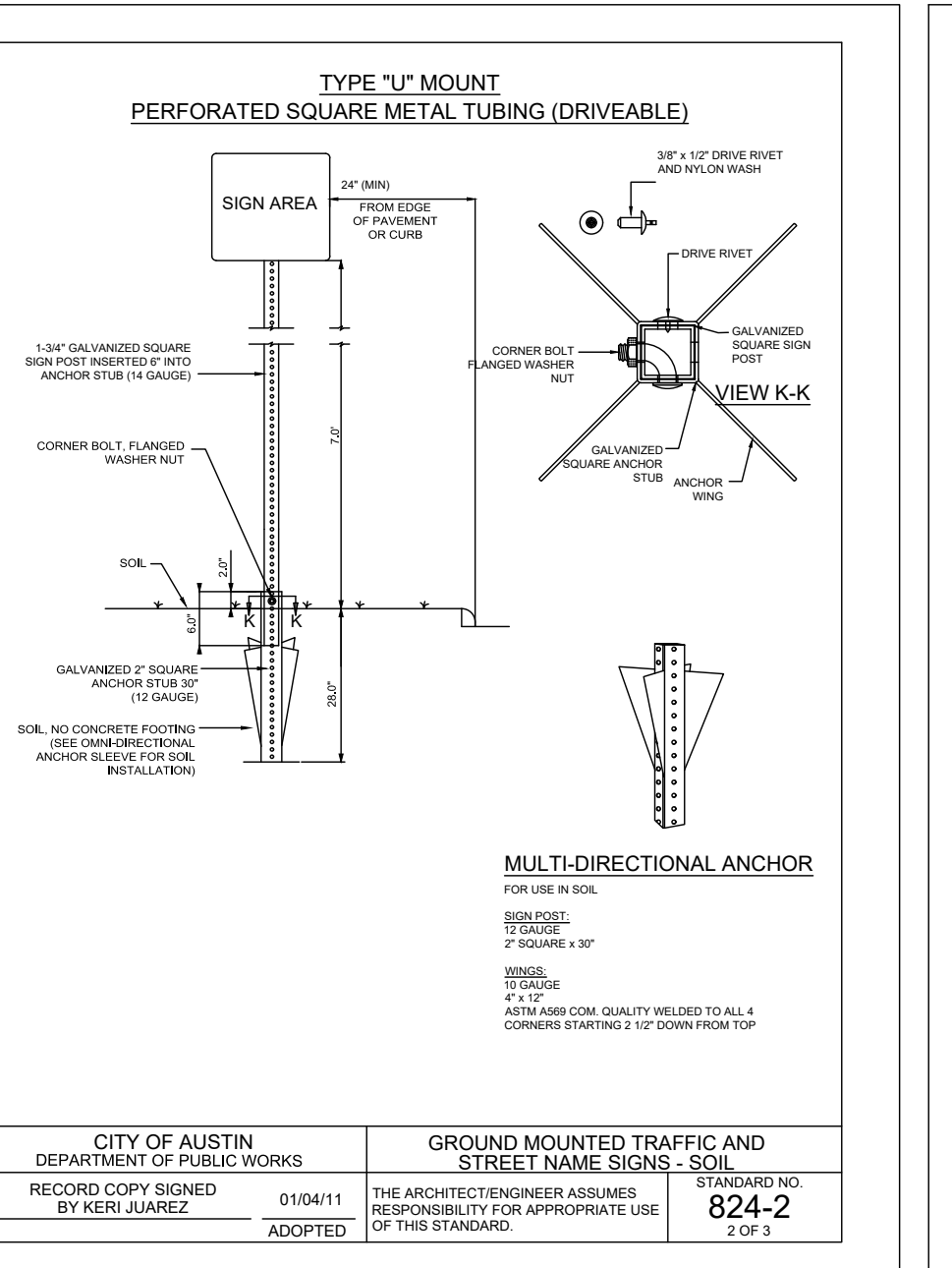
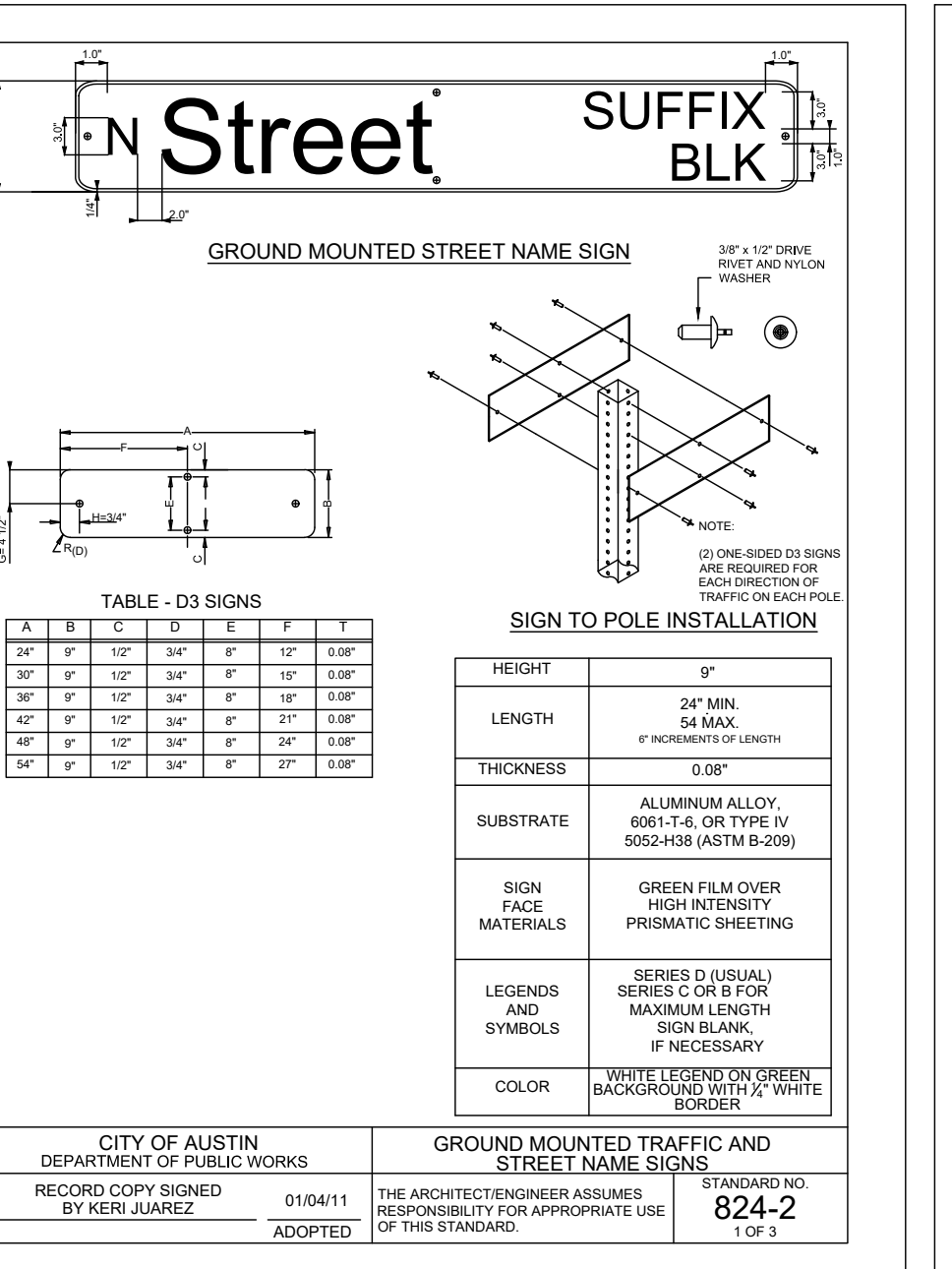
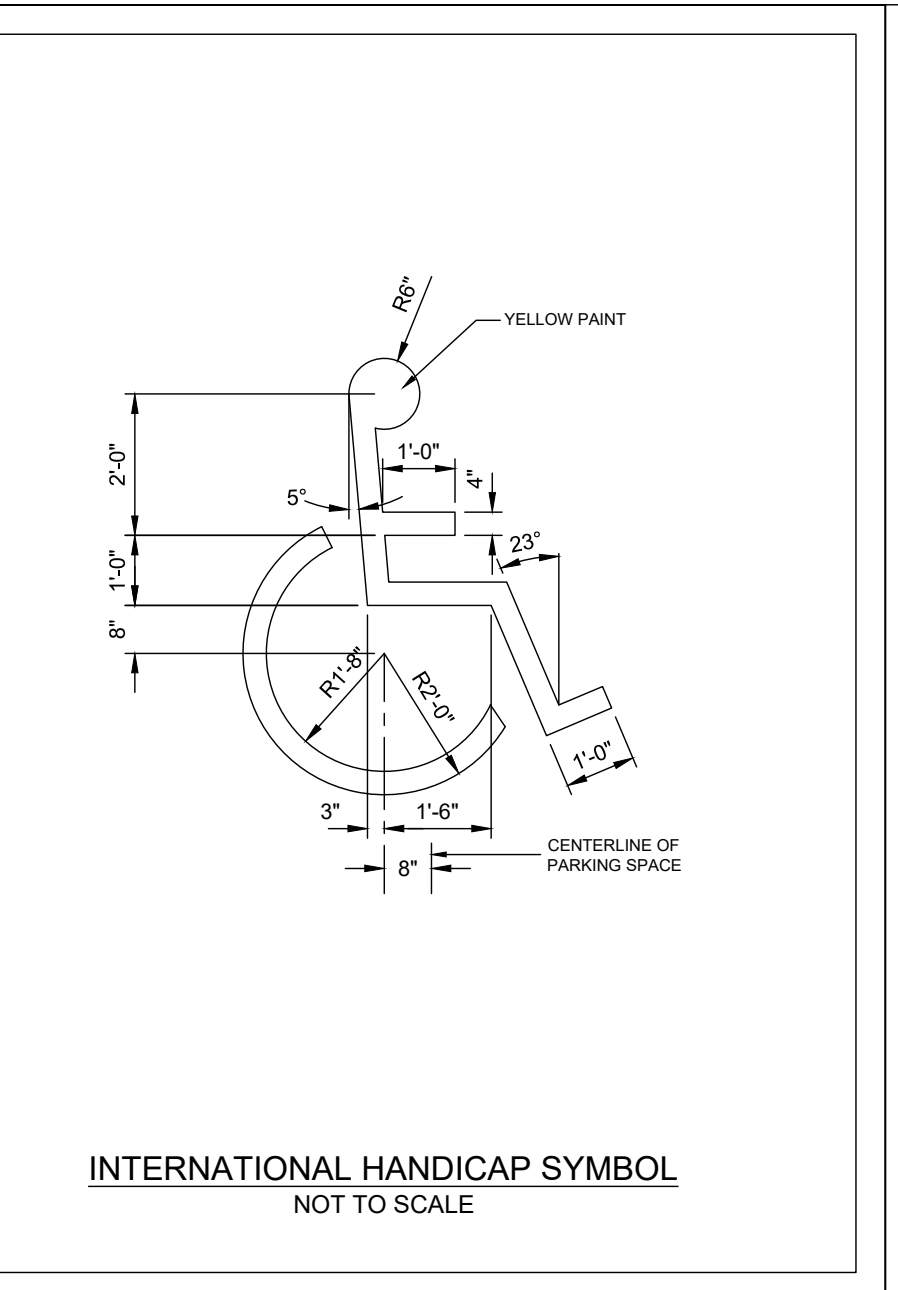
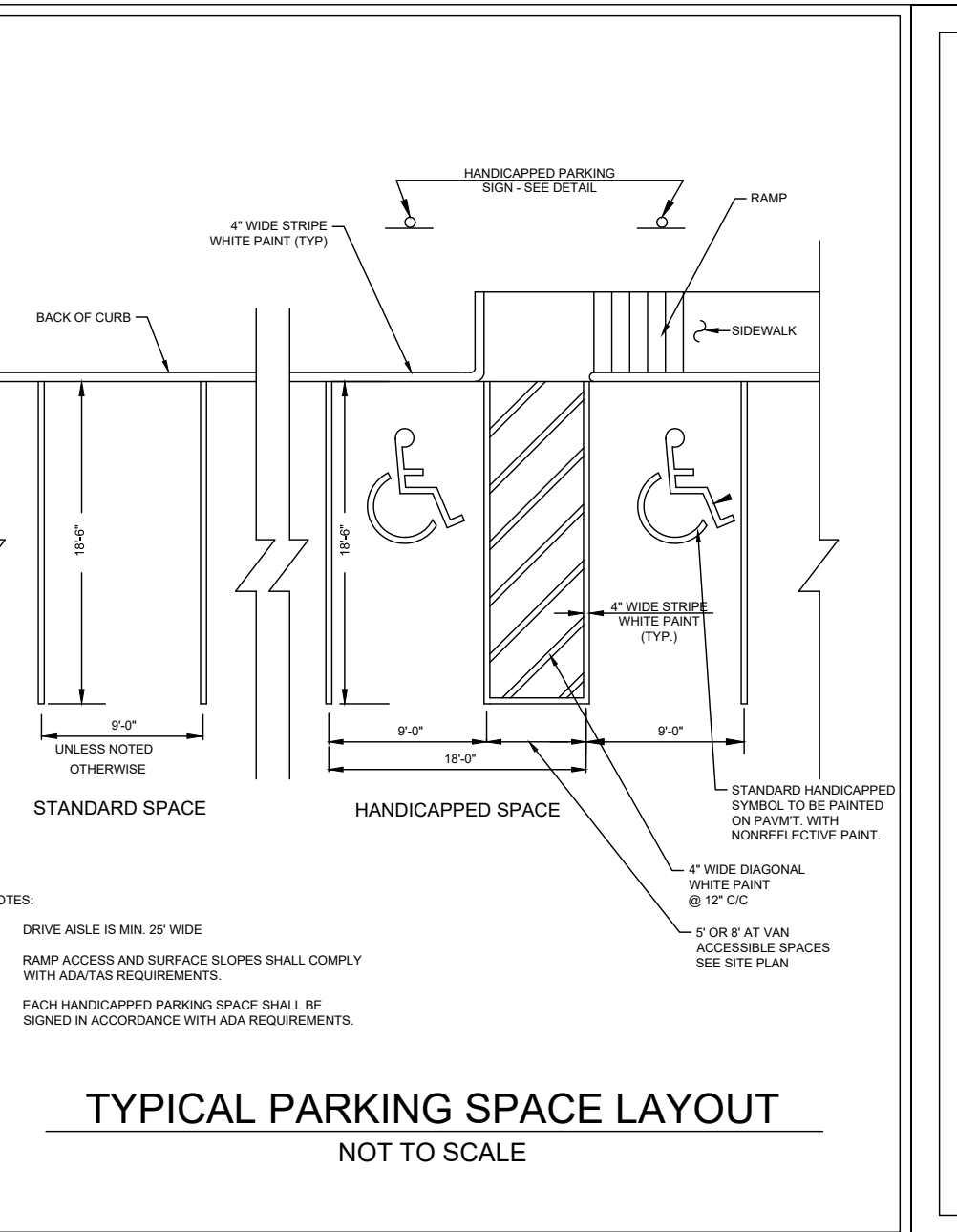
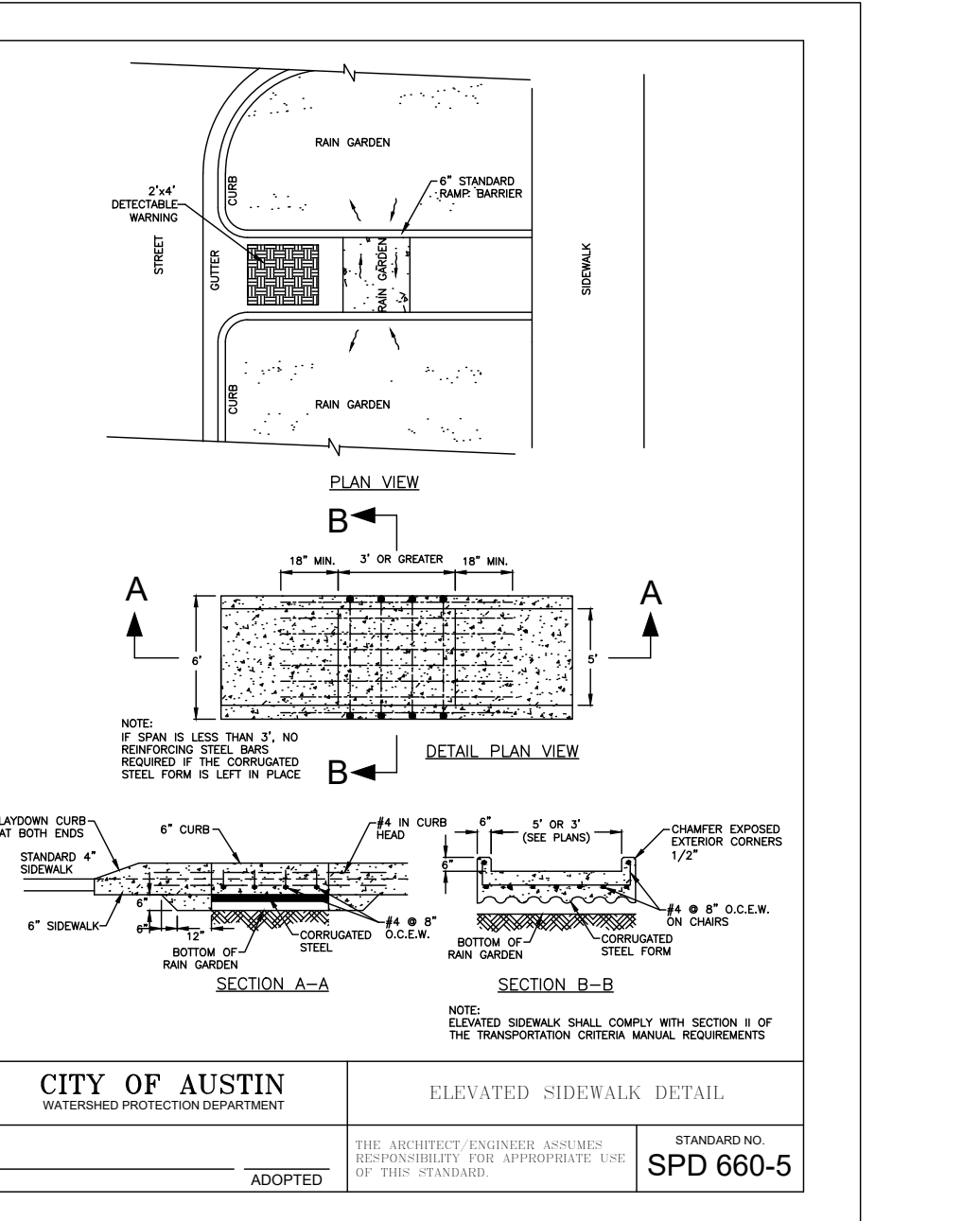
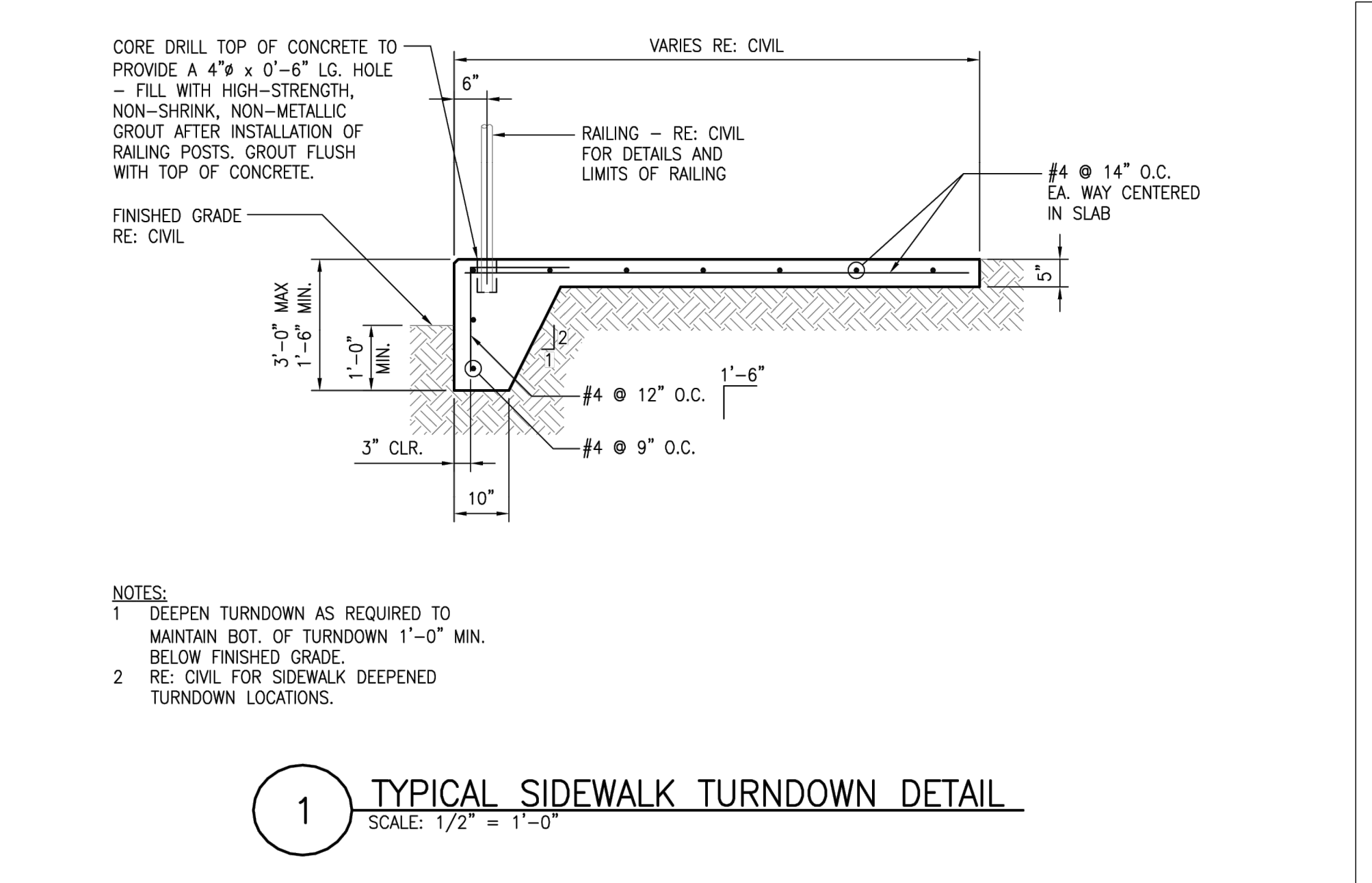
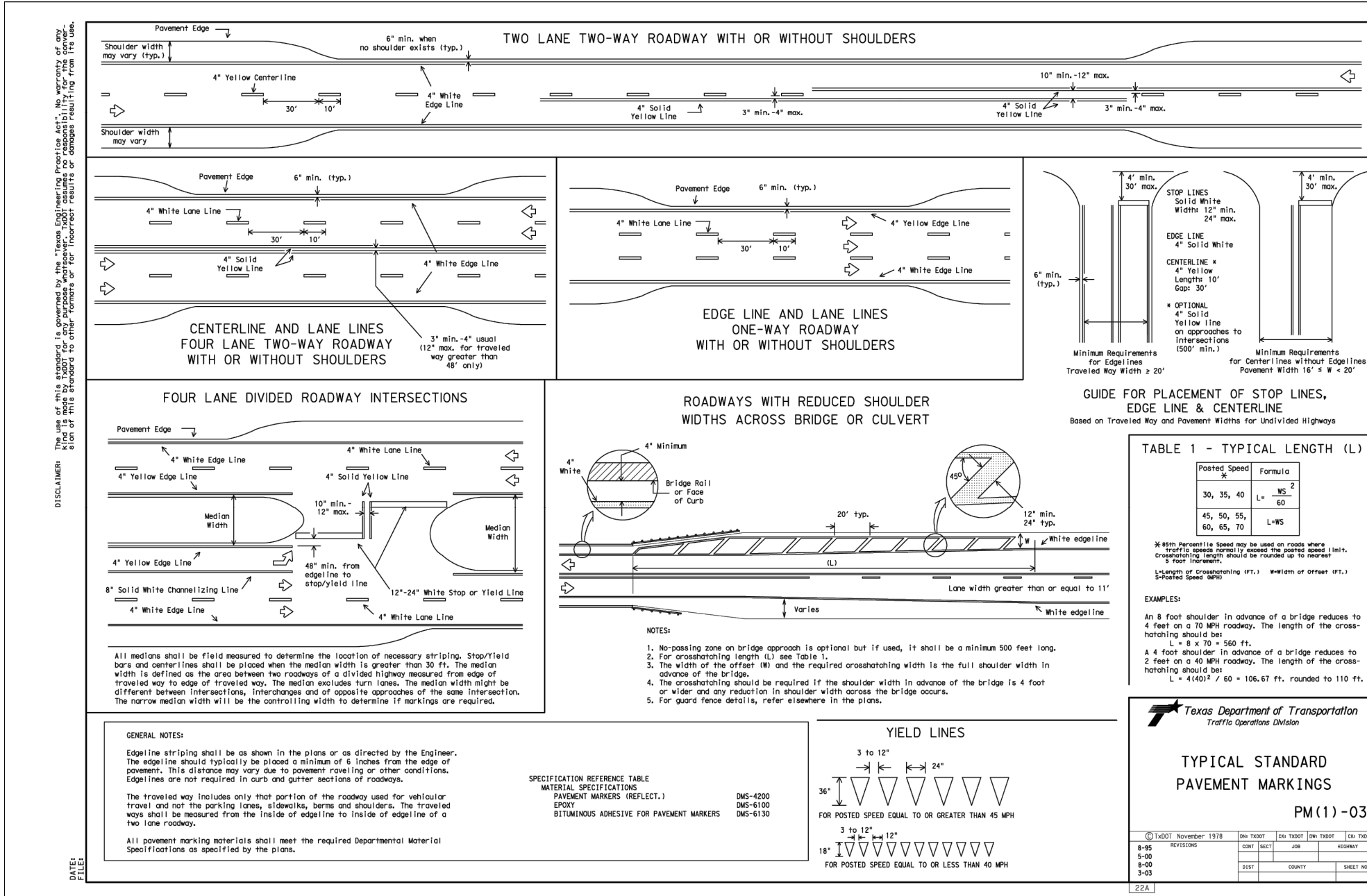
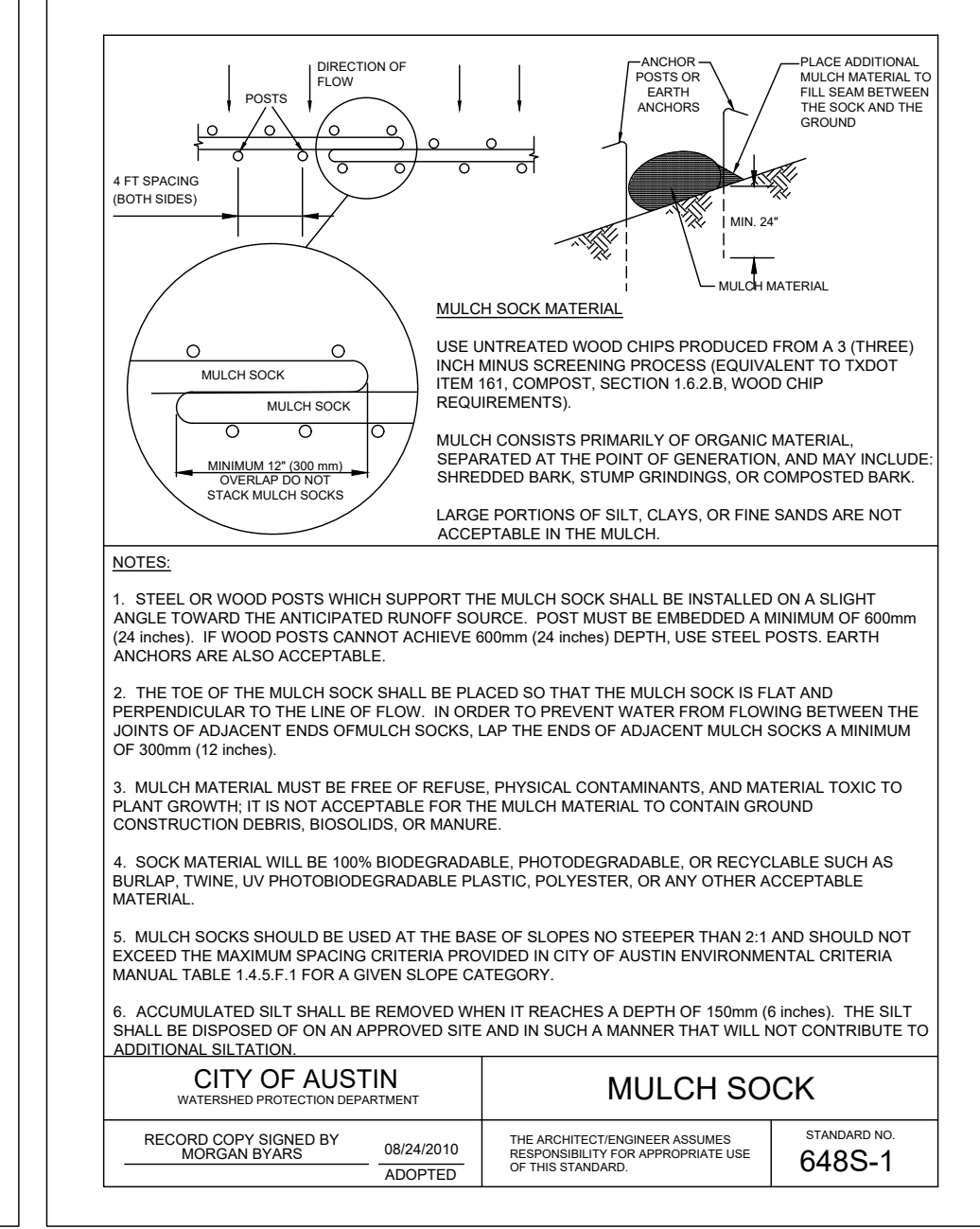
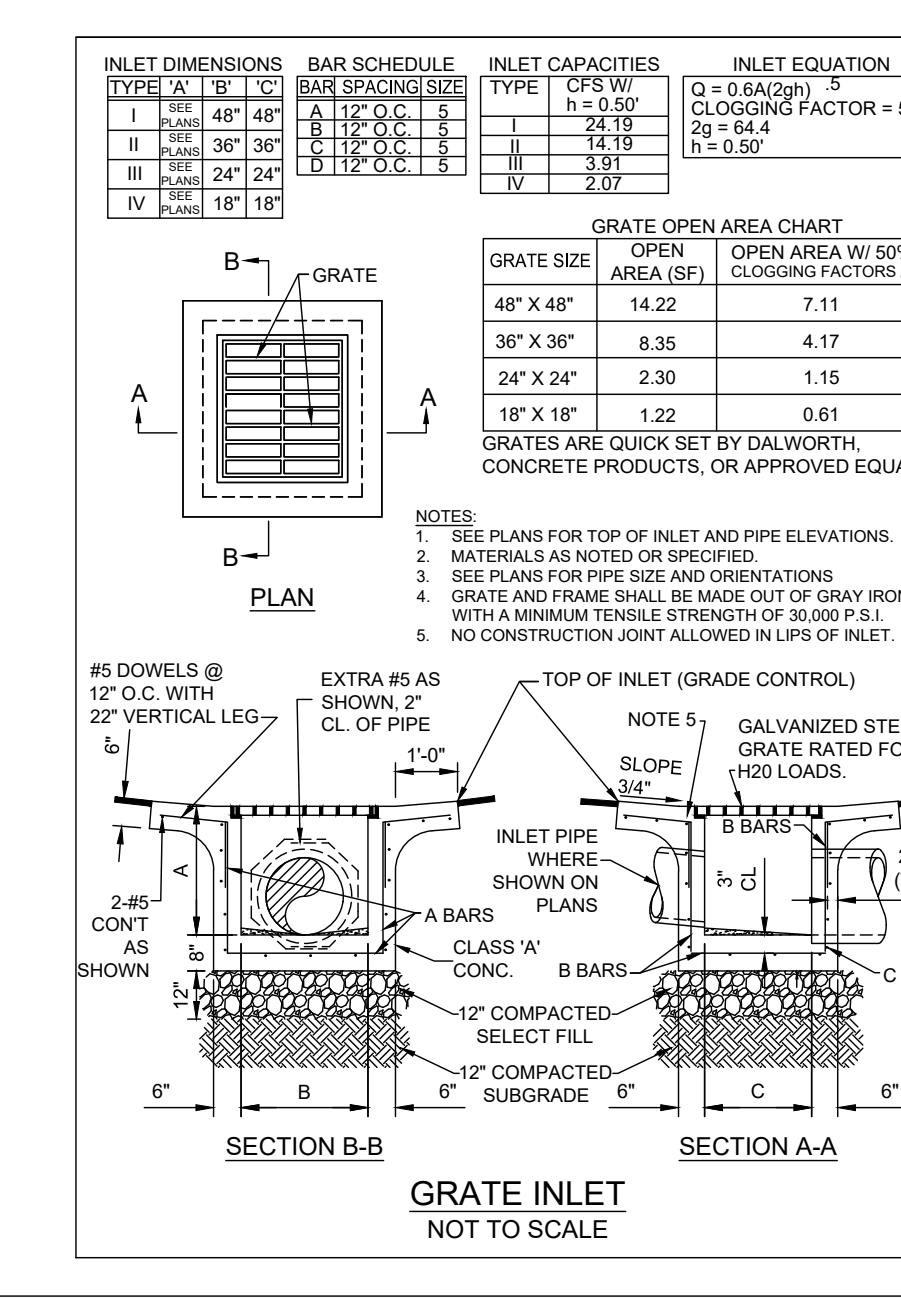
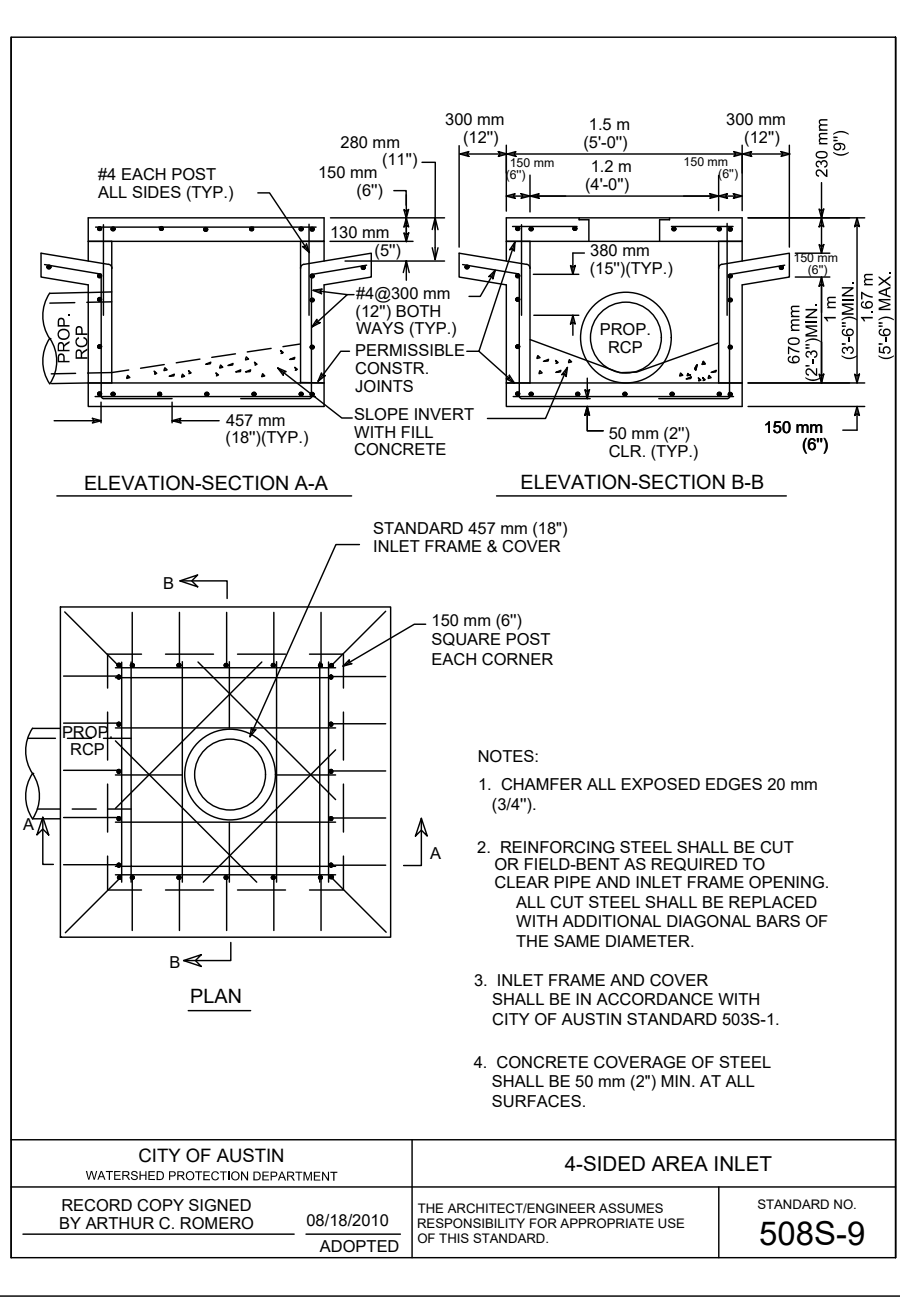
- Complete coding number
- Frame and plates, when required
- Type of soil: A, C, D, E, F, or G
- Length of trench sections
- Angles and intersections *
- Load requirements

*Available with angles, intersections, color changes or other special requirements require detail drawings prior to ordering. Contact your sales representative or product engineering for assistance.
800-868-0875



Note: 48", 60" and 72" available in limited stock only.

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



LAKE TRAVIS HIGH SCHOOL 2024 PHASE 2
3324 RANCH ROAD 620 SOUTH

MALONE WHEELER
INC. SINCE 1975
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
CIVIL

DESIGN BY: SGC
CHECKED BY: JBM
APPROVED BY: AV
DATE: 11/20/2023

SHEET 68
OF 69



Lake Travis High School 2024 Phase 1 & 2 Improvements

**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 2024 IMPROVEMENTS

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, City of Cedar Park, and Williamson County rules and regulations.

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:** winovitchr@ltisdschools.org



Signature of Responsible Party

11-17-23

Date

ROBERT WINOVITCH, LTISD



Lake Travis High School 2024 Phase 1 & 2 Improvements

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



Lake Travis High School 2024 Phase 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

ATTACHMENT O – Pilot-Scale Field Testing Plan

Not Applicable to this project.

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

**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 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 an existing water quality batch detention pond and a proposed batch detention pond. 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

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: 11/21/2023

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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT A – SPILL RESPONSE ACTIONS

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "A"

SPILL RESPONSE ACTIONS

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT B – POTENTIAL SOURCES OF CONTAMINATION

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "B"

POTENTIAL SOURCES OF CONTAMINANTS

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

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 2024 PHASE 1 & 2 IMPROVEMENTS

Phase 1

1. CLEAR & GRUB (Area= 7.00 acres)
2. ROUGH GRADE (Area = 7.00 acres)
3. POND CONSTRUCTION (Area = 0.36 acres)
4. INSTALL STORM SEWER SYSTEM (Area = 0.73 acres)
5. BASE AND PAVING APPLICATION (Area = 4.17 acres)
6. RESTORATION OF SITE (Area = 3.73 acres)

Phase 2

1. ROUGH GRADE (Area = 0.40 acres)
2. INSTALL STORM SEWER SYSTEM (Area = 0.04 acres)
3. BASE AND PAVING APPLICATION (Area = 4.18 acres)
4. RESTORATION OF SITE (Area = 11.12 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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

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
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT E – REQUEST TO TEMPORARILY SEAL A FEATURE, IF SEALING A FEATURE

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "E"

REQUEST TO TEMPORARILY SEAL A FEATURE
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

Attachment E is not applicable, this project does not propose sealing a feature.



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT F – STRUCTURAL PRACTICES

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "F"

STRUCTURAL PRACTICES

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT G – DRAINAGE AREA MAP

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "G"

DRAINAGE AREA MAP

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

Refer to the Drainage Area Maps in the construction plans.



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT H – TEMPORARY SEDIMENT BASIN

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "H"

TEMPORARY SEDIMENT BASIN

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

CONTRIBUTING ZONE PLAN APPLICATION

TEMPORARY STORMWATER ATTACHMENT I – INSPECTION AND MAINTENANCE TEMPORARY BMPS

CONTRIBUTING ZONE PLAN APPLICATION
TEMPORARY STORMWATER
ATTACHMENT "I"

INSPECTION AND MAINTENANCE OF TEMPORARY BMPS
LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

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.



Lake Travis High School 2024 Phase 1 & 2 Improvements

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**

LAKE TRAVIS HIGH SCHOOL 2024 PHASE 1 & 2 IMPROVEMENTS

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

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:

[Signature]
Applicant's Signature

11-17-23
Date

ROBERT WINOVITZ, LTI SB

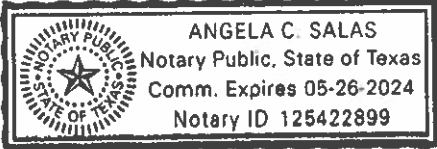
THE STATE OF TEXAS §

County of TRAVIS §

BEFORE ME, the undersigned authority, on this day personally appeared Robert Winovitch 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 17th day of November, 2023

[Signature]
NOTARY PUBLIC
ANGELA SALAS
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 05-26-2024



Lake Travis High School 2024 Phase 1 & 2 Improvements

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 Independent 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 San Antonio Regional Office
 Mailed to: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier
 Revenues Section 12100 Park 35 Circle
 Mail Code 214 Building A, 3rd Floor
 P.O. Box 13088 Austin, TX 78753
 Austin, TX 78711-3088 (512)239-0357

Site Location (Check All That Apply):

Recharge Zone Contributing Zone Transition Zone

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	124.41 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: 11-17-23
 ROBERT WINOVITCH, LTISD

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	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	≥ 500	\$10,000
	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

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



Lake Travis High School 2024 Phase 1 & 2 Improvements

FEE CHECK - COPY



Lake Travis High School 2024 Phase 1 & 2 Improvements

CORE DATA FORM (TCEQ-10400)



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600783575		RN 101495851

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		11/14/2023	
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information		<input type="checkbox"/> Change in Regulated Entity Ownership	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				If new Customer, enter previous Customer below:	
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:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
12. Number of Employees		<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher		13. Independently Owned and Operated?	
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator		<input checked="" type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> 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)		
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information		
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).		
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)		
Lake Travis High School		

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	3325 Ranch Road. 620 S						
	City	Austin	State	TX	ZIP	78738	ZIP + 4
24. County							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:						
26. Nearest City	State			Nearest ZIP Code		
	Texas			78613		
27. Latitude (N) In Decimal:	30.32768			28. Longitude (W) In Decimal:	-97.96753	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
30	19	39.65	-97	58	3.11	
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? <i>(Do not repeat the SIC or NAICS description.)</i>						
Education						
34. Mailing Address:	3324 Ranch Road. 620 S					
	City	Austin	State	TX	ZIP	78738
35. E-Mail Address:						
36. Telephone Number		37. Extension or Code		38. Fax Number <i>(if applicable)</i>		
(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.

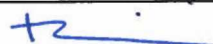
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source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

SECTION IV: Preparer Information

40. Name:	Jesse Malone, P.E.	41. Title:	Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512)899-0601		(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 WINOVITZ, LTCSB.	Phone:	(512)-956-5600
Signature:		Date:	11-17-23