

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: Liberty Hill Middle School No. 3					2. Regulated Entity No.: RN 111535720				
3. Customer Name: Liberty Hill ISD					4. Customer No.: CN 600788483				
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):		59.6	
9. Application Fee:	\$8,000.00		10. Permanent BMP(s):			Sand Filter Basin			
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):			None			
13. County:	Williamson		14. Watershed:			South Fork San Gabriel River			

Application Distribution

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

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

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

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	—	_1_
Region (1 req.)	—	—	_1_
County(ies)	—	—	_1_
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___ Barton Springs/ Edwards Aquifer ___ Hays Trinity ___ Plum Creek	___ Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___ Austin ___ Buda ___ Dripping Springs ___ Kyle ___ Mountain City ___ San Marcos ___ Wimberley ___ Woodcreek	___ Austin ___ Bee Cave ___ Pflugerville ___ Rollingwood ___ Round Rock ___ Sunset Valley ___ West Lake Hills	___ Austin ___ Cedar Park ___ Florence ___ Georgetown ___ Jarrell ___ Leander _1_ Liberty Hill ___ Pflugerville ___ Round Rock

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.	
Matt Hardy, PE	
Print Name of Customer/Authorized Agent	02/08/2024
Signature of Customer/Authorized Agent	Date

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

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: Matt Hardy, PE

Date: 02-08-2024

Signature of Customer/Agent:



Project Information

- Current Regulated Entity Name: Liberty Hill Middle School No. 3
Original Regulated Entity Name: Liberty Hill Middle School No. 3
Assigned Regulated Entity Number(s) (RN): 111535720
Edwards Aquifer Protection Program ID Number(s): 11003161
☒ The applicant has not changed and the Customer Number (CN) is: 600788483
☐ The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
- ☒ **Attachment A: Original Approval Letter and Approved Modification Letters.** A copy of the original approval letter and copies of any modification approval letters are attached.
- A modification of a previously approved plan is requested for (check all that apply):

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

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

<i>CZP Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Acres	<u>59.64</u>	<u>59.64</u>
Type of Development	<u>School</u>	<u>School</u>
Number of Residential Lots	<u>0</u>	<u>0</u>
Impervious Cover (acres)	<u>16.72</u>	<u>18.51</u>
Impervious Cover (%)	<u>28.03%</u>	<u>31.04%</u>
Permanent BMPs	_____	_____
Other	_____	_____
<i>AST Modification</i>		
<i>Summary</i>		
Number of ASTs	<u>0</u>	<u>0</u>
Other	<u>0</u>	<u>0</u>
<i>UST Modification</i>		
<i>Summary</i>		
Number of USTs	<u>0</u>	<u>0</u>
Other	<u>0</u>	<u>0</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.

Contributing Zone Plan Modification Submittal - TCEQ Form 10259

Attachment A: Original Approval Letter

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

September 2, 2022

Mr. Steven Snell
Liberty Hill Independent School District
301 Forrest St
Liberty Hill, Texas 78642

Re: Edwards Aquifer, Williamson County

NAME OF PROJECT: Liberty Hill Middle School 3; Located 0.5 miles north of intersection 183 & SH 29; Liberty Hill, Texas

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

Regulated Entity No. RN111535720; Additional ID No. 11003161

Dear Mr. Snell:

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 Langan Engineering on behalf of Liberty Hill Independent School District on July 14, 2022. Final review of the CZP was completed after additional material was received on August 30, 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.*

PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 59.64 acres. It will include a new middle school, turf athletic fields, parking, drives, and various supporting elements. The impervious cover will be 16.72 acres (28.03 percent). Project wastewater will be disposed of by conveyance to the existing Liberty Hill Wastewater Treatment Plant owned by the City of Liberty Hill.

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/filtration basins, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 14,553 pounds of TSS generated from the 16.72 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 first occupancy of the facilities within their respective drainage areas.
- II. 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 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 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

Mr. Steven Snell
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September 2, 2022

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 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/jv

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

cc: Mr. Jack Garner, P.E., Langan Engineering

**Change in Responsibility for Maintenance
on Permanent Best Management Practices and Measures**

The applicant is no longer responsible for maintaining the permanent best management practice (BMP) and other measures. The project information and the new entity responsible for maintenance is listed below.

Customer: _____

Regulated Entity Name: _____

Site Address: _____

City, Texas, Zip: _____

County: _____

Approval Letter Date: _____

BMPs for the project: _____

New Responsible Party: _____

Name of contact: _____

Mailing Address: _____

City, State: _____ Zip: _____

Telephone: _____ FAX: _____

Signature of New Responsible Party Date

I acknowledge and understand that I am assuming full responsibility for maintaining all permanent best management practices and measures approved by the TCEQ for the site, until another entity assumes such obligations in writing or ownership is transferred.

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

Contributing Zone Plan Modification Submittal - TCEQ Form 10259

Attachment B: Project Narrative

The subject site is located at 450 County Road 258, Liberty Hill, Texas and is located in the Edwards Aquifer Contributing Zone. The overall tract is 59.64 acres and is bisected by an existing drainage ditch that generally runs north and south. The Previously approved Liberty Hill Middle School No. 3 is located on the east side of the drainage channel and there are no proposed changes to the water quality ponds treating the eastern portion of the site. This project has commenced construction but has not been completed.

The west side of the channel remains undeveloped with open pasture and some copse of primarily oak trees with some cedar elm and cedar trees in its current condition. The proposed improvements under this package include an extension of the on-site driveway west to the subject property's intersection with the US Hwy 183 Right-of-Way, a proposed turn lane to service the new driveway, and a new sand filter water quality pond to treat stormwater from the west side of the site.

The new impervious cover is addressed using a new sand filter basin shown in the plans just west of the central channel. The overflow from the basin splitter structure is routed to a storm water detention basin and ultimately discharges to the drainage ditch east of the new pond. The drainage area discharging into the new basin is 15.31 acres and for this initial permit treats 1.79 acres of impervious cover.

When considering the total 59.64-acre site the currently proposed permit includes 1.79 acres of impervious cover in addition to 16.72 acres of impervious cover under the previous permit, for a total of 31.0% of the overall site.

This site is planned to be expanded in the future to accommodate additional education facilities resulting in additional site impervious coverage. The sand filter basin and detention basin have been over-sized to accommodate the additional impervious cover. The ultimate drainage area is anticipated to remain 15.31 acres and is designed to treat 12.25 acres or 80% impervious cover.

Upgradient storm water flowing towards the site will be intercepted at the Western boundary and routed via channel through the site to an unnamed tributary central to the site which ultimately flows to the South Fork of the San Gabriel River.

Contributing Zone Plan Modification Submittal - TCEQ Form 10259

Attachment C: Current Site Plan of the Approved Project

****NOTICE TO CONTRACTORS - UTILITIES****

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ANY EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, THE GOVERNING MUNICIPALITY, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

**** NOTICE TO CONTRACTORS - TOPOGRAPHIC SURVEY ****

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY JPH LAND SURVEYING, INC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PSE), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTORS FAILURE TO NOTIFY ENGINEER AND OWNER.

****CZP CALCULATIONS****

SITE AREA: 59.64 ACRES

IMPERVIOUS SUMMARY: 143,039 SQ FT = 3.28 AC
STRUCTURES/ROOFTOPS: 574,044 SQ FT = 13.18 AC
PARKING, ACCESS DRIVES & SIDEWALKS: 11,564 SQ FT = 0.26 AC
OTHER IMPERVIOUS COVER: 728,137 SQ FT = 16.72 AC = 28 %
TOTAL IC

NOTE: WATER QUALITY AND DETENTION PONDS WERE DESIGNED TO ACCOMMODATE APPROXIMATELY 75% IMPERVIOUS COVER ON THE EAST SIDE OF DRAINAGE CHANNEL.

SITE BENCHMARK

TBM #1 - THE FIRST SITE BENCHMARK (TBM #1) IS A MAG NAIL WITH METAL WASHER STAMPED "JPH BENCHMARK" SET IN A CONCRETE CULVERT DRAIN ON THE EAST MARGIN OF US HIGHWAY NO. 183, LOCATED APPROXIMATELY 12 FEET WESTERLY FROM THE FROM THE EAST RIGHT-OF-WAY LINE OF US HIGHWAY NO. 183, AND APPROXIMATELY 1125 FEET SOUTHEASTERLY FROM THE INTERSECTION OF U.S. HIGHWAY 183 AND COUNTY ROAD 258. BENCHMARK ELEVATION = 1,046.29' (NAVD'88).

TBM #2 - THE SECOND SITE BENCHMARK (TBM #2) IS A MAG NAIL WITH METAL WASHER STAMPED "JPH BENCHMARK" SET IN A CONCRETE CULVERT DRAIN ON THE NORTH MARGIN OF COUNTY ROAD 258, LOCATED APPROXIMATELY 2,580 FEET NORTHEASTERLY FROM THE INTERSECTION OF U.S. HIGHWAY 183 AND COUNTY ROAD 258, AND APPROXIMATELY 500 FEET SOUTHEASTERLY FROM THE INTERSECTION OF COUNTY ROAD 260 AND COUNTY ROAD 258. BENCHMARK ELEVATION = 1,055.98' (NAVD'88).

WILLIAMSON COUNTY FFE NOTE

THE MINIMUM FINISHED FLOOR ELEVATIONS (FFE) FOR LOTS SHOWN ON THE SITE PLAN ARE DETERMINED BY A STUDY PREPARED BY LANGAN, DATED JANUARY 6, 2023.

VEHICLE STACKING SUMMARY

PARENT STACKING PROVIDED

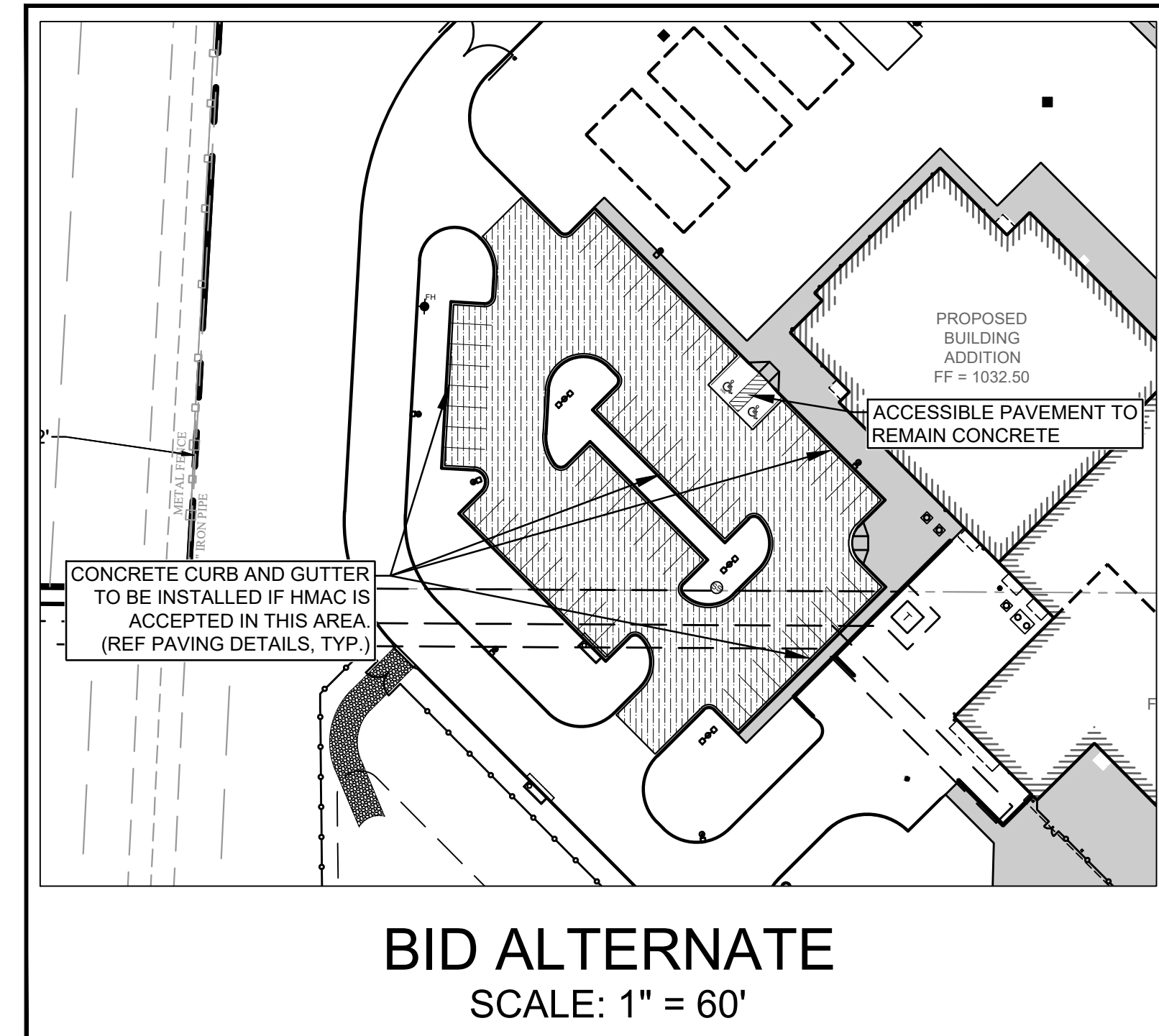
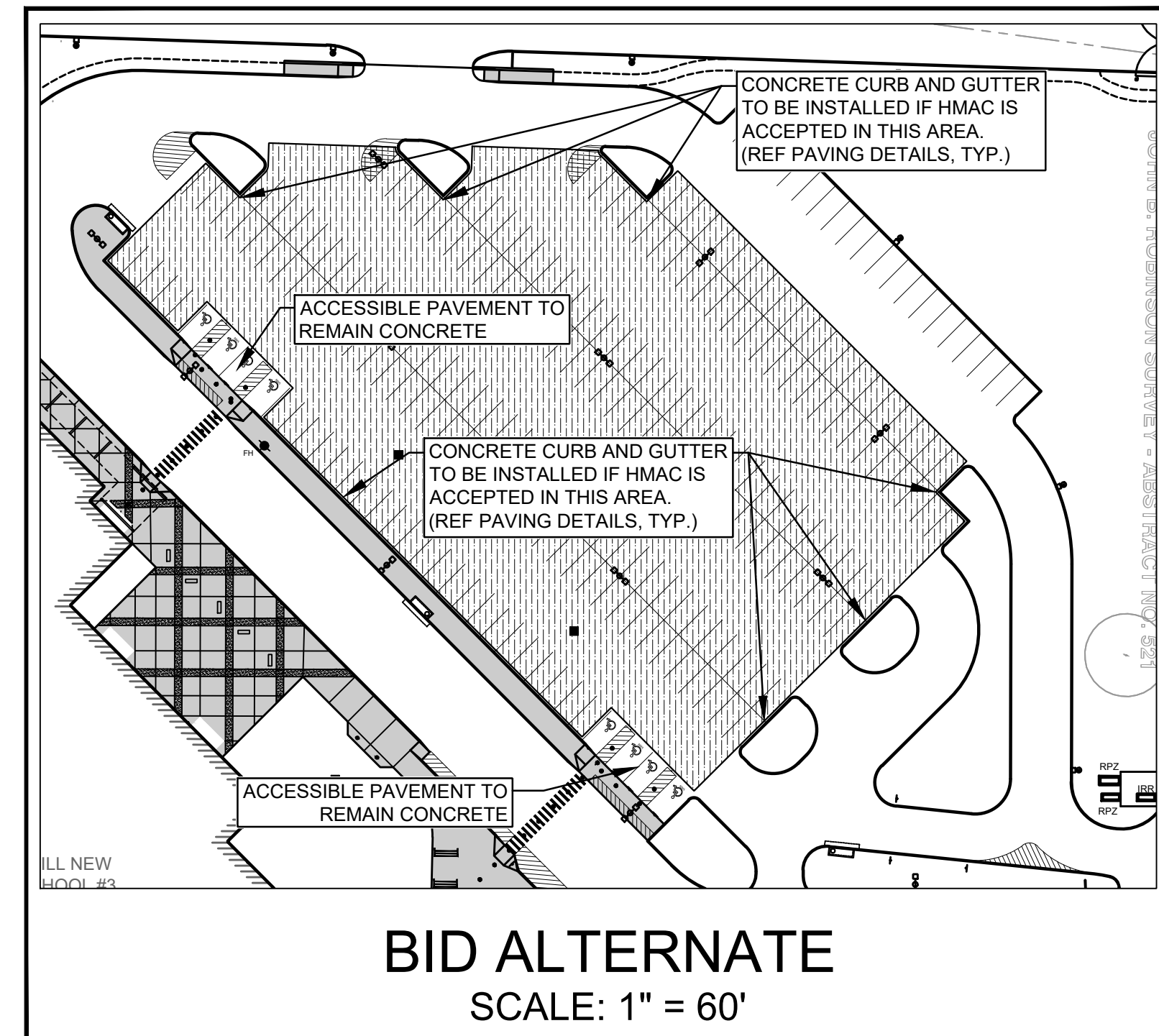
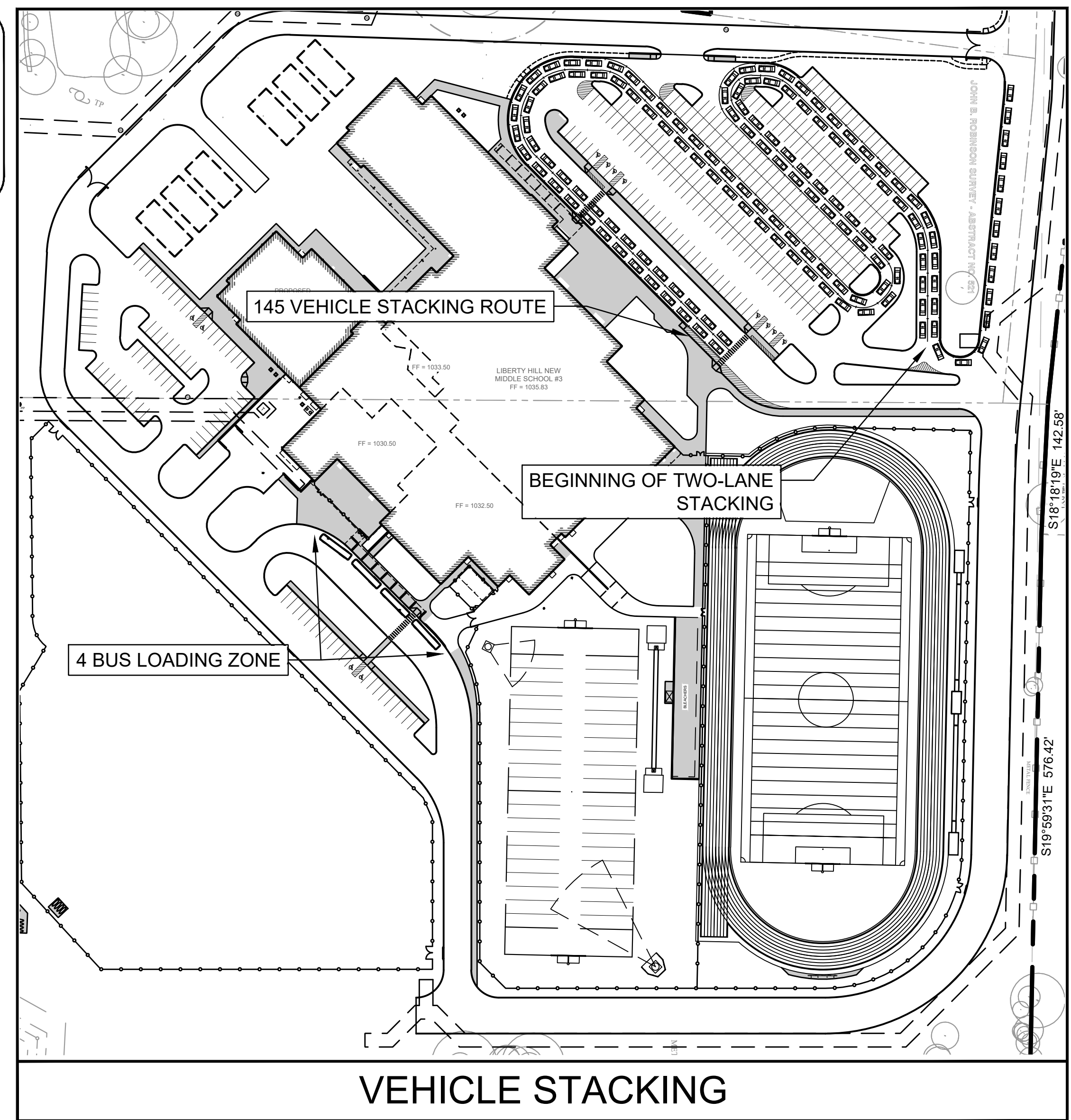
TOTAL STACKING LANE LENGTH - 3600'
SINGLE CAR LENGTH - 25'
TOTAL STACKING - 3600/25 = 144 VEHICLES

BUS STACKING PROVIDED

TOTAL STACKING LANE LENGTH - 180'
SINGLE BUS LENGTH - 45'
TOTAL STACKING - 180/45 = 4 BUSES

GRAPHIC SCALE

0 100 200 FEET



- 1) CLARIFIED LOCATIONS OF TRACTS 1.2 AND 3 AND INFORMATION ABOUT THE DEED
- 1) ADDED BID ALTERNATE FOR STAFF PARKING LOT PAVING
- 1) ADDED WILLIAMSON COUNTY FFE NOTE

Date	Description	No.
01/30/23	CPR 03	1
11/11/22	CPR 01	1
09/26/22	ADDENDUM 1	1

Revisions

01-30-2023
TBPE Registration #: P-13,709

LANGAN

Langan Engineering and Environmental Services, Inc.

9606 N. Mopac Expressway, Suite 110
Austin, TX 78759

T: 737.289.7800 F: 737.289.7801 www.langan.com
TBPE FIRM REG. #P-13709

Project

NEW LIBERTY HILL MIDDLE SCHOOL #3
450 CR 258

LIBERTY HILL TEXAS
Drawing Title

OVERALL SITE PLAN

Project No. 531013304
Date SEPTEMBER 2022
Drawn By
Checked By

Drawing No. C-010
Sheet 10 of 49

PAVING LEGEND

BUS TRAFFIC LOOP, ACCESS ROAD AND FIRE LANES
6" REINFORCED CONCRETE,
6" FLEXIBLE BASE,
12" MOISTURE CONDITIONED SUBGRADE
REF GEOTECH REPORT

CAR PARKING LOT AND PARENT DROP-OFF LOOP
5" REINFORCED CONCRETE,
6" FLEXIBLE BASE,
12" MOISTURE CONDITIONED SUBGRADE
REF GEOTECH REPORT

DUMPSTER APPROACH AND MAINTENANCE COURTYARDS
7" REINFORCED CONCRETE,
6" FLEXIBLE BASE,
12" MOISTURE CONDITIONED SUBGRADE
REF GEOTECH REPORT

CAR PARKING LOT ASPHALT ALTERNATE (THIS SHEET)
2" HMA - TYPE D OR C,
6" FLEXIBLE BASE,
12" MOISTURE CONDITIONED SUBGRADE
REF GEOTECH REPORT

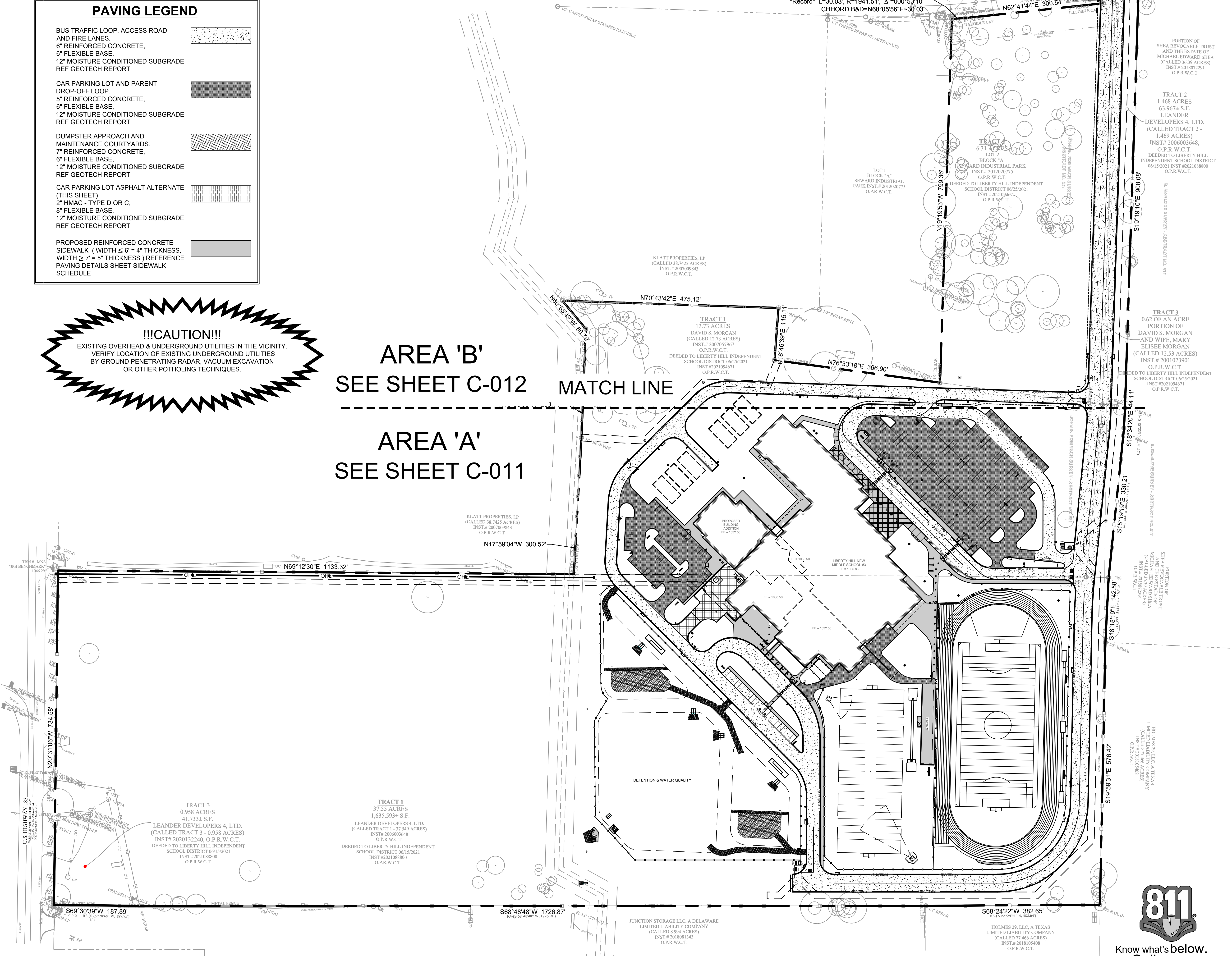
PROPOSED REINFORCED CONCRETE SIDEWALK (WIDTH ≤ 6" = 4" THICKNESS, WIDTH ≥ 7" = 5" THICKNESS) REFERENCE PAVING DETAILS SHEET SIDEWALK SCHEDULE

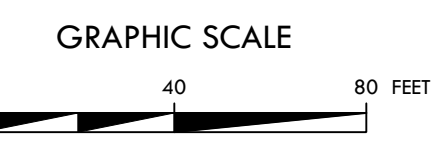
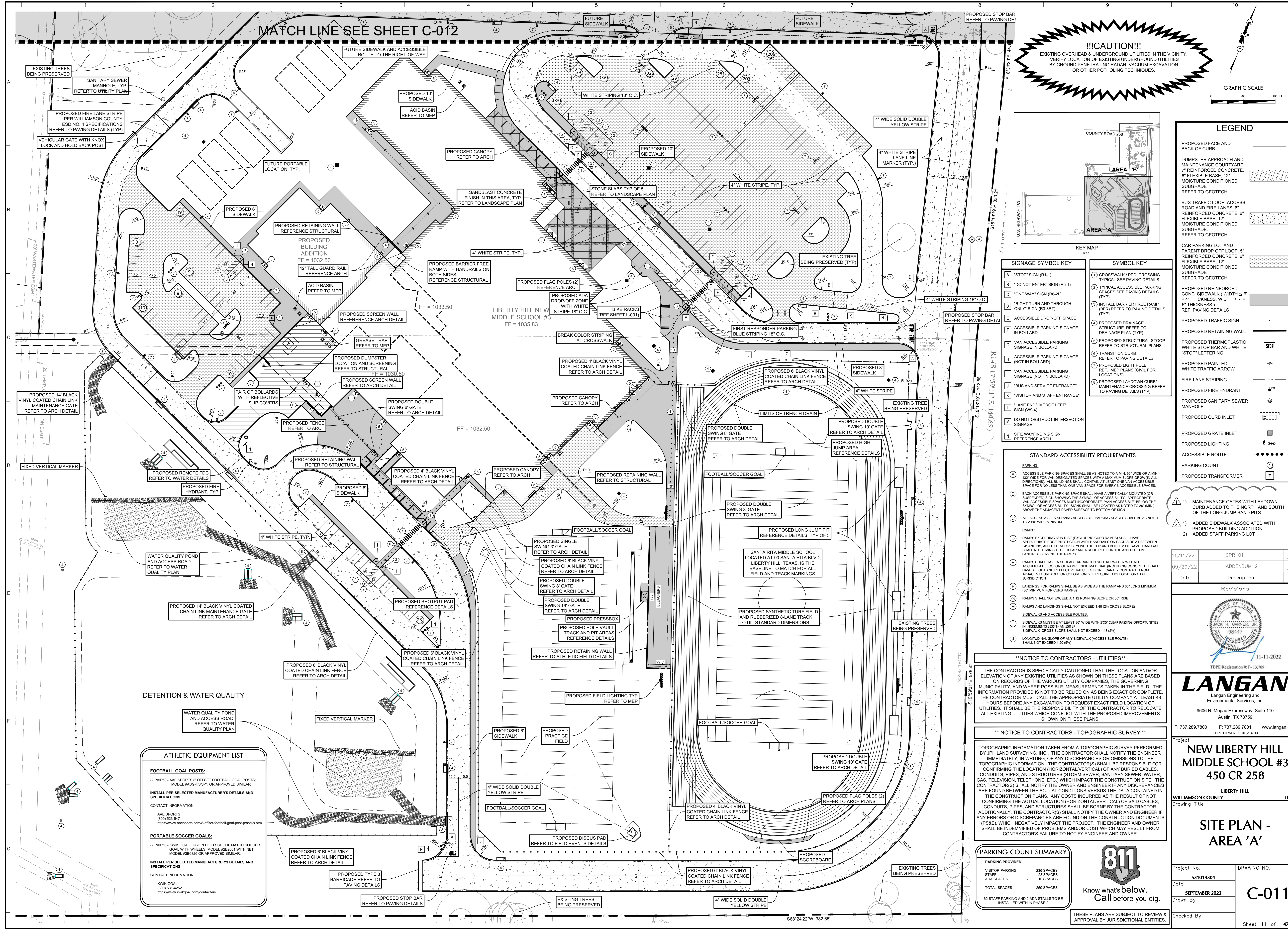
!!!CAUTION!!!

EXISTING OVERHEAD & UNDERGROUND UTILITIES IN THE VICINITY. VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES BY GROUND PENETRATING RADAR, VACUUM EXCAVATION OR OTHER POTHOLING TECHNIQUES.

AREA 'B'
SEE SHEET C-012

AREA 'A'
SEE SHEET C-011





LEGEND

- PROPOSED FACE AND BACK OF CURB
- DUMPSTER APPROACH AND MAINTENANCE COURTYARD, 7" REINFORCED CONCRETE, 6" FLEXIBLE BASE, 12" MOISTURE CONDITIONED SUBGRADE, REFER TO GEOTECH
- BUS TRAFFIC LOOP, ACCESS ROAD AND FIRE LANES, 6" REINFORCED CONCRETE, 6" FLEXIBLE BASE, 12" MOISTURE CONDITIONED SUBGRADE, REFER TO GEOTECH
- CAR PARKING LOT AND PARENT DROP OFF LOOP, 5" REINFORCED CONCRETE, 6" FLEXIBLE BASE, 12" MOISTURE CONDITIONED SUBGRADE, REFER TO GEOTECH
- PROPOSED REINFORCED CONC. SIDEWALK (WIDTH $\geq 6'$ = 4" THICKNESS, WIDTH $\geq 7'$ = 5" THICKNESS), REF: PAVING DETAILS
- PROPOSED TRAFFIC SIGN
- PROPOSED RETAINING WALL
- PROPOSED THERMOPLASTIC WHITE STOP BAR AND WHITE "STOP" LETTERING
- PROPOSED PAINTED WHITE TRAFFIC ARROW
- FIRE LANE STRIPING
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED CURB INLET
- PROPOSED GRATE INLET
- PROPOSED LIGHTING
- ACCESSIBLE ROUTE
- PARKING COUNT
- PROPOSED TRANSFORMER

- SIGNAGE SYMBOL KEY**
- A "STOP" SIGN (R1-1)
 - B "DO NOT ENTER" SIGN (R5-1)
 - C "ONE WAY" SIGN (R6-2L)
 - D "RIGHT TURN AND THROUGH ONLY" SIGN (R3-BRT)
 - E ACCESSIBLE DROP-OFF SPACE
 - F ACCESSIBLE PARKING SIGNAGE IN BOLLARD
 - G VAN ACCESSIBLE PARKING SIGNAGE IN BOLLARD
 - H ACCESSIBLE PARKING SIGNAGE (NOT IN BOLLARD)
 - I VAN ACCESSIBLE PARKING SIGNAGE (NOT IN BOLLARD)
 - J "BUS AND SERVICE ENTRANCE"
 - K "VISITOR AND STAFF ENTRANCE"
 - L "LANE ENDS MERGE LEFT" SIGN (W9-4)
 - M DO NOT OBSTRUCT INTERSECTION SIGNAGE
 - N SITE WAYFINDING SIGN REFERENCE ARCH
- SYMBOL KEY**
- 1 CROSSWALK / PED. CROSSING TYPICAL SEE PAVING DETAILS
 - 2 TYPICAL ACCESSIBLE PARKING SPACES SEE PAVING DETAILS (TYP)
 - 3 INSTALL BARRIER FREE RAMP (BFR) REFER TO PAVING DETAILS (TYP)
 - 4 PROPOSED DRAINAGE STRUCTURE, REFER TO DRAINAGE PLAN (TYP)
 - 5 PROPOSED STRUCTURAL STOOP REFER TO STRUCTURAL PLANS
 - 6 TRANSITION CURB REFER TO PAVING DETAILS
 - 7 PROPOSED LIGHT POLE REF. MEP PLANS (CIVIL FOR LOCATIONS)
 - 8 PROPOSED LAYDOWN CURB/ MAINTENANCE CROSSING REFER TO PAVING DETAILS (TYP)

- STANDARD ACCESSIBILITY REQUIREMENTS**
- PARKING:**
- A ACCESSIBLE PARKING SPACES SHALL BE AS NOTED TO A MIN. 30' WIDE OR A MIN. 132' WIDE FOR VAN DESIGNATED SPACES WITH A MAXIMUM SLOPE OF 2% (IN ALL DIRECTIONS). ALL BUILDINGS SHALL CONTAIN AT LEAST ONE VAN ACCESSIBLE SPACE FOR NO LESS THAN ONE VAN SPACE FOR EVERY 6 ACCESSIBLE SPACES.
 - B EACH ACCESSIBLE PARKING SPACE SHALL HAVE A VERTICALLY MOUNTED (OR SUSPENDED) SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. APPROPRIATE VAN ACCESSIBLE SPACES MUST BE INCORPORATED BELOW THE SYMBOL OF ACCESSIBILITY. SIGNS SHALL BE LOCATED AS NOTED TO 80" (MIN.) ABOVE THE ADJACENT PAVED SURFACE TO BOTTOM OF SIGN.
 - C ALL ACCESSIBLE SERVING ACCESSIBLE PARKING SPACES SHALL BE AS NOTED TO A MIN. 30' WIDE MINIMUM.
 - D RAMP EXCEEDING 6" IN RISE (EXCLUDING CURB RAMP) SHALL HAVE APPROPRIATE EDGE PROTECTION WITH HANDRAILS ON EACH SIDE AT BETWEEN 34" AND 38" AND EXTEND 12" BEYOND THE TOP AND BOTTOM OF RAMP. HANDRAIL SHALL NOT DIMINISH THE CLEAR AREA REQUIRED FOR TOP AND BOTTOM LANDINGS SERVING THE RAMP.
 - E RAMP SHALL HAVE A SURFACE ARRANGED SO THAT WATER WILL NOT ACCUMULATE. COLOR OF RAMP FINISH MATERIAL (INCLUDING CONCRETE) SHALL HAVE A LIGHT AND REFLECTIVE VALUE TO SIGNIFICANTLY CONTRAST FROM ADJACENT SURFACES OR COLORS ONLY IF REQUIRED BY LOCAL OR STATE JURISDICTION.
 - F LANDINGS FOR RAMP SHALL BE AS WIDE AS THE RAMP AND 60" LONG MINIMUM (36" MINIMUM FOR CURB RAMP).
 - G RAMP SHALL NOT EXCEED A 1:12 RUNNING SLOPE OR 30° RISE.
 - H RAMP AND LANDINGS SHALL NOT EXCEED 1:48 (2% CROSS SLOPE).
- SIDEWALKS AND ACCESSIBLE ROUTES:**
- I SIDEWALKS MUST BE AT LEAST 36" WIDE WITH 5'X5' CLEAR PASSING OPPORTUNITIES IN INCREMENTS LESS THAN 150 LF.
 - J SIDEWALK CROSS SLOPE SHALL NOT EXCEED 1:48 (2%).
 - K LONGITUDINAL SLOPE OF ANY SIDEWALK (ACCESSIBLE ROUTE) SHALL NOT EXCEED 1:20 (5%).

"NOTICE TO CONTRACTORS - UTILITIES"

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ANY EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, THE GOVERNING MUNICIPALITY, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

"NOTICE TO CONTRACTORS - TOPOGRAPHIC SURVEY"

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY JPH LAND SURVEYING, INC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE ENGINEER AND ENGINEER IN CHARGE OF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&S), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.

PARKING COUNT SUMMARY

PARKING PROVIDED	
VISITOR PARKING	236 SPACES
STAFF	23 SPACES
ADA SPACES	19 SPACES
TOTAL SPACES	259 SPACES

62 STAFF PARKING AND 2 ADA STALLS TO BE INSTALLED WITH IN PHASE 2



THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

- 1) MAINTENANCE GATES WITH LAYDOWN CURB ADDED TO THE NORTH AND SOUTH OF THE LONG JUMP SAND PITS
- 1) ADDED SIDEWALK ASSOCIATED WITH PROPOSED BUILDING ADDITION
- 2) ADDED STAFF PARKING LOT

11/11/22	CPR 01	
09/29/22	ADDENDUM 2	
Date	Description	No.

Revisions



LANGAN
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9606 N. Mopac Expressway, Suite 110
Austin, TX 78759
T: 737.289.7800 F: 737.289.7801 www.langan.com
TBPE FIRM REG. #F-13709

Project
NEW LIBERTY HILL MIDDLE SCHOOL #3
450 CR 258
LIBERTY HILL TEXAS
Drawing Title

SITE PLAN - AREA 'A'

Project No.	531013304	DRAWING NO.	C-011
Date	SEPTEMBER 2022	Drawn By	
Checked By		Sheet	11 of 47

****NOTICE TO CONTRACTORS - UTILITIES****

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LEGEND	
PROPOSED FACE AND BACK OF CURB	
DUMPSTER APPROACH AND MAINTENANCE COURTYARD, 7" REINFORCED CONCRETE, 6" FLEXIBLE BASE, 12" MOISTURE CONDITIONED SUBGRADE	
REFER TO GEOTECH	
BUS TRAFFIC LOOP, ACCESS ROAD AND FIRE LANES, 6" REINFORCED CONCRETE, 6" FLEXIBLE BASE, 12" MOISTURE CONDITIONED SUBGRADE	
REFER TO GEOTECH	
CAR PARKING LOT AND PARENT DROP OFF LOOP, 5" REINFORCED CONCRETE, 6" FLEXIBLE BASE, 12" MOISTURE CONDITIONED SUBGRADE	
REFER TO GEOTECH	
PROPOSED REINFORCED CONC. SIDEWALK (WIDTH ≤ 6' ± 4" THICKNESS, WIDTH ≥ 7' = 5" THICKNESS)	
REFER TO PAVING DETAILS	
PROPOSED TRAFFIC SIGN	
PROPOSED RETAINING WALL	
PROPOSED THERMOPLASTIC WHITE STOP BAR AND WHITE "STOP" LETTERING	
PROPOSED PAINTED WHITE TRAFFIC ARROW	
FIRE LANE STRIPING	
PROPOSED FIRE HYDRANT	
PROPOSED SANITARY SEWER MANHOLE	
PROPOSED CURB INLET	
PROPOSED GRATE INLET	
PROPOSED LIGHTING	
ACCESSIBLE ROUTE	
PARKING COUNT	
PROPOSED TRANSFORMER	

!!!CAUTION!!!

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811

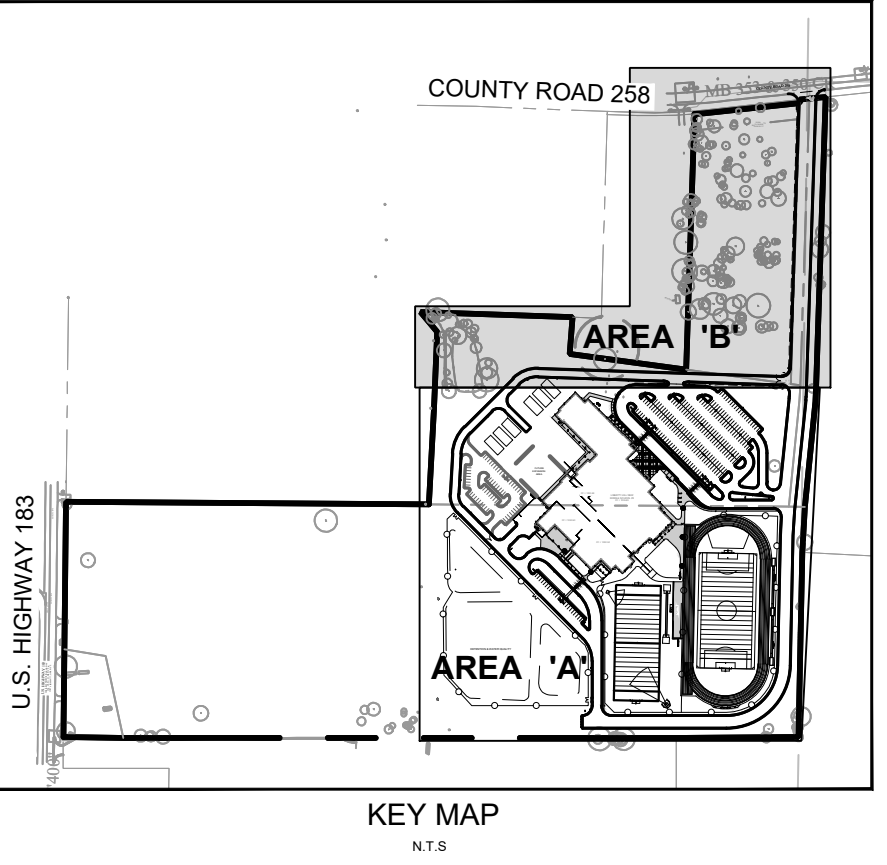
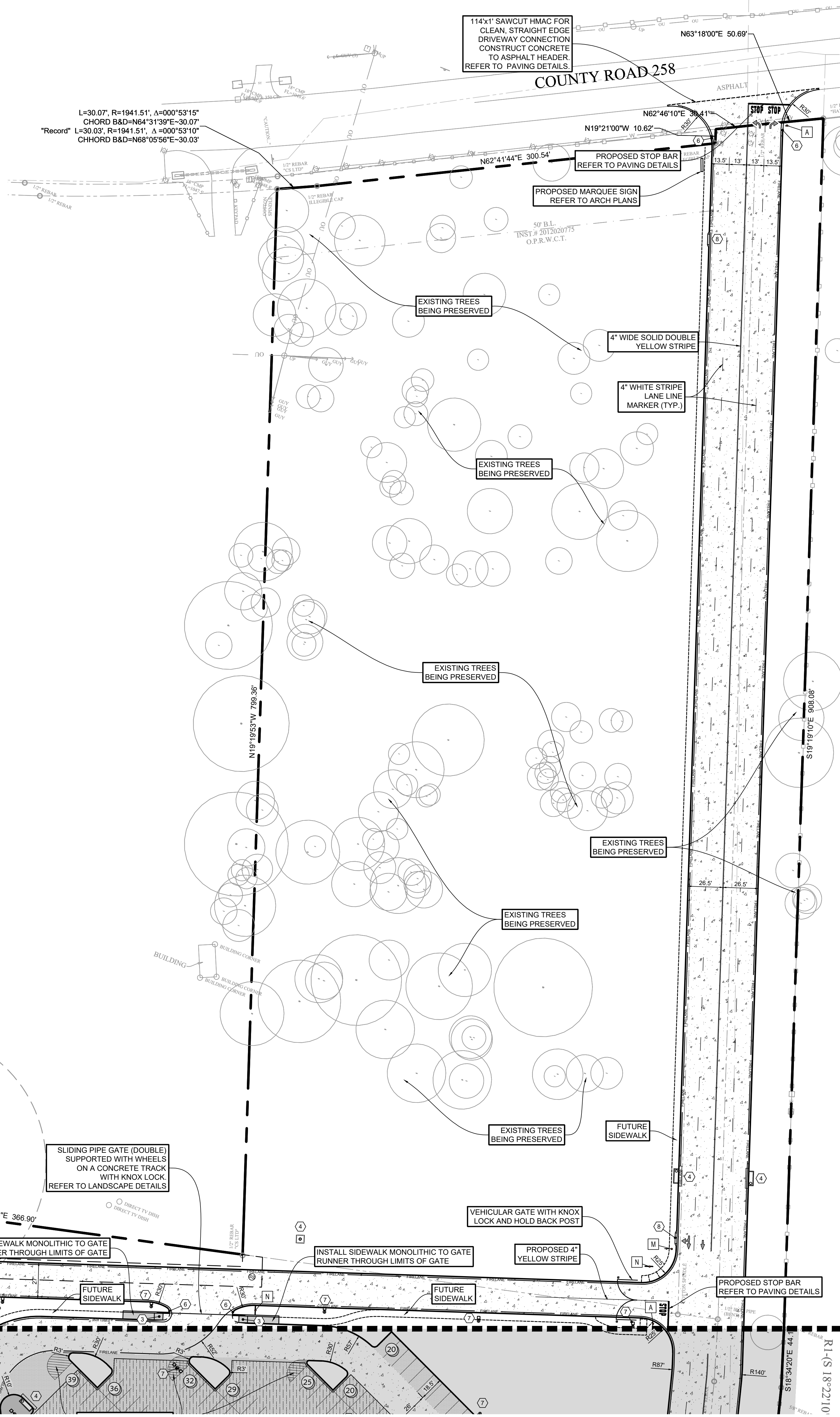
Know what's below.
Call before you dig.

THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

STANDARD ACCESSIBILITY REQUIREMENTS	
PARKING:	
(A)	ACCESSIBLE PARKING SPACES SHALL BE AS NOTED TO A MIN. 96" WIDE OR A MIN. 132" WIDE FOR VAN DESIGNATED SPACES WITH A MAXIMUM SLOPE OF 2% (IN ALL DIRECTIONS). ALL BUILDINGS SHALL CONTAIN AT LEAST ONE VAN ACCESSIBLE SPACE FOR NO LESS THAN ONE VAN SPACE FOR EVERY 6 ACCESSIBLE SPACES.
(B)	EACH ACCESSIBLE PARKING SPACE SHALL HAVE A VERTICALLY MOUNTED (OR SUSPENDED) SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. APPROPRIATE VAN ACCESSIBLE SPACES MUST INCORPORATE "VAN ACCESSIBLE" BELOW THE SYMBOL OF ACCESSIBILITY. SIGNS SHALL BE LOCATED AS NOTED TO 80" (MIN.) ABOVE THE ADJACENT PAVED SURFACE TO BOTTOM OF SIGN.
(C)	ALL ACCESSIBLE SERVING ACCESSIBLE PARKING SPACES SHALL BE AS NOTED TO A 60" WIDE MINIMUM.
RAMPS:	
(D)	RAMPS EXCEEDING 6" IN RISE (EXCLUDING CURB RAMPS) SHALL HAVE APPROPRIATE EDGE PROTECTION WITH HANDRAILS ON EACH SIDE AT BETWEEN 34" AND 38" AND EXTEND 12" BEYOND THE TOP AND BOTTOM OF RAMP. HANDRAIL SHALL NOT DIMINISH THE CLEAR AREA REQUIRED FOR TOP AND BOTTOM LANDINGS SERVING THE RAMPS.
(E)	RAMPS SHALL HAVE A SURFACE ARRANGED SO THAT WATER WILL NOT ACCUMULATE. COLOR OF RAMP FINISH MATERIAL (INCLUDING CONCRETE) SHALL HAVE A LIGHT AND REFLECTIVE VALUE TO SIGNIFICANTLY CONTRAST FROM ADJACENT SURFACES OR COLORS ONLY IF REQUIRED BY LOCAL OR STATE JURISDICTION.
(F)	LANDINGS FOR RAMPS SHALL BE AS WIDE AS THE RAMP AND 60" LONG MINIMUM (36" MINIMUM FOR CURB RAMPS).
(G)	RAMPS SHALL NOT EXCEED A 1:12 RUNNING SLOPE OR 30° RISE.
(H)	RAMPS AND LANDINGS SHALL NOT EXCEED 1:48 (2% CROSS SLOPE).
SIDEWALKS AND ACCESSIBLE ROUTES:	
(I)	SIDEWALKS MUST BE AT LEAST 36" WIDE WITH 5'X5' CLEAR PASSING OPPORTUNITIES IN INCREMENTS LESS THAN 150' IF SIDEWALK CROSS SLOPE SHALL NOT EXCEED 1:20 (5%).
(J)	LONGITUDINAL SLOPE OF ANY SIDEWALK (ACCESSIBLE ROUTE) SHALL NOT EXCEED 1:20 (5%).

SIGNAGE SYMBOL KEY	
(A)	"STOP" SIGN (R1-1)
(B)	"DO NOT ENTER" SIGN (R5-1)
(C)	"ONE WAY" SIGN (R6-2L)
(D)	"RIGHT TURN AND THROUGH ONLY" SIGN (R3-8RT)
(E)	ACCESSIBLE DROP-OFF SPACE
(F)	ACCESSIBLE PARKING SIGNAGE IN BOLLARD
(G)	VAN ACCESSIBLE PARKING SIGNAGE IN BOLLARD
(H)	ACCESSIBLE PARKING SIGNAGE (NOT IN BOLLARD)
(I)	VAN ACCESSIBLE PARKING SIGNAGE (NOT IN BOLLARD)
(J)	"BUS AND SERVICE ENTRANCE"
(K)	"VISITOR AND STAFF ENTRANCE"
(L)	"LANE ENDS MERGE LEFT" SIGN (W9-4)
(M)	DO NOT OBSTRUCT INTERSECTION SIGNAGE
(N)	SITE WAYFINDING SIGN REFERENCE ARCH

SYMBOL KEY	
(1)	CROSSWALK / PED. CROSSING TYPICAL SEE PAVING DETAILS
(2)	TYPICAL ACCESSIBLE PARKING SPACES SEE PAVING DETAILS (TYP)
(3)	INSTALL BARRIER FREE RAMP (BFR) REFER TO PAVING DETAILS (TYP)
(4)	PROPOSED DRAINAGE STRUCTURE REFER TO DRAINAGE PLAN (TYP)
(5)	PROPOSED STRUCTURAL STOOP REFER TO STRUCTURAL PLANS
(6)	TRANSITION CURB REFER TO PAVING DETAILS
(7)	PROPOSED LIGHT POLE REF: MEP PLANS (CIVIL FOR LOCATIONS)
(8)	PROPOSED LAYDOWN CURB/ MAINTENANCE CROSSING REFER TO PAVING DETAILS (TYP)



Date	Description	No.
Revisions		
LANGAN Langan Engineering and Environmental Services, Inc. 9606 N. Mopac Expressway, Suite 110 Austin, TX 78759 T: 737.289.7800 F: 737.289.7801 www.langan.com TBPE Registration #: F-13,709		
Project NEW LIBERTY HILL MIDDLE SCHOOL #3 450 CR 258 LIBERTY HILL TEXAS WILLAMSON COUNTY Drawing Title SITE PLAN - AREA 'B'		
Project No. 531013304	DRAWING NO. C-012	
Date SEPTEMBER 2022		
Drawn By		
Checked By		
Sheet 12 of 47		

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: Matt Hardy, PE

Date: 02-08-2024

Signature of Customer/Agent:



Regulated Entity Name: Liberty Hill Middle School No. 3

Project Information

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

Contact Person: Dustin Akin

Entity: Liberty Hill Independent School District

Mailing Address: 301 Forrest Street

City, State: Liberty Hill, Texas

Telephone: 512.260.5580

Email Address: dakin@libertyhill.txed.net

Zip: 78642

Fax: 512.260.5581

5. Agent/Representative (If any):

Contact Person: Matt Hardy, PE

Entity: Langan Engineering

Mailing Address: 9606 N. Mopac Expressway, Suite 110

City, State: Austin, TX

Zip: 78759

Telephone: 737.289.7800

Fax: 737.289.7801

Email Address: mhardy@langan.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 Liberty Hill.
- ☐ 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.

Liberty Hill Middle School #3 is located at 450 County Road 258, Liberty Hill, Texas. It is on the east side of US 183 about 0.5 miles north of its intersection with SH 29.

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 School Site

12. The type of project is:

- ☐ Residential: # of Lots: _____
- ☐ Residential: # of Living Unit Equivalents: _____
- ☐ Commercial
- ☐ Industrial
- ☒ Other: Additions to Middle School Site

13. Total project area (size of site): 59.64 Acres

Total disturbed area: 21.4 Acres

14. Estimated projected population: 1,500

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	0	÷ 43,560 =	0
Parking	72,710	÷ 43,560 =	1.67
Other paved surfaces	5,263	÷ 43,560 =	0.12
Total Impervious Cover	77,973	÷ 43,560 =	1.79

Total Impervious Cover 16.72 (existing) + 1.79 (proposed) = 18.51 ac ÷ Total Acreage 59.64 X 100 = 31.0% 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" = 40'.
35. 100-year floodplain boundaries:
- ☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
 - ☒ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA FIRM 48491C0275E, effective on 09/26/2008.
36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
- ☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.
38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
39. ☒ Areas of soil disturbance and areas which will not be disturbed.
40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41. ☒ Locations where soil stabilization practices are expected to occur.
42. ☐ Surface waters (including wetlands).
☒ N/A
43. ☐ Locations where stormwater discharges to surface water.
☒ There will be no discharges to surface water.
44. ☐ Temporary aboveground storage tank facilities.

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

Permanent Best Management Practices (BMPs)

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

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

☒ The site will not be used for low density single-family residential development.

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

☐ **Attachment I - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

☒ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

☐ The site will not be used for multi-family residential developments, schools, or small business sites.

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

☒ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.

☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.

☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

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

☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.

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

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

☐ N/A

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

dated. Construction plans for the proposed permanent BMPs and measures are attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

☐ N/A

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

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

☐ N/A

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

☒ N/A

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

☐ N/A

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

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

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

Administrative Information

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

Contributing Zone Application - TCEQ Form 10257

Attachment A: Road Map





U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



TCEQ Form 10257 - Attachment B
USGS Map

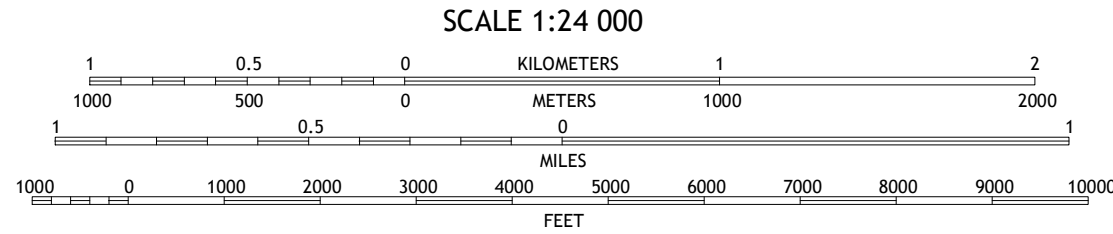
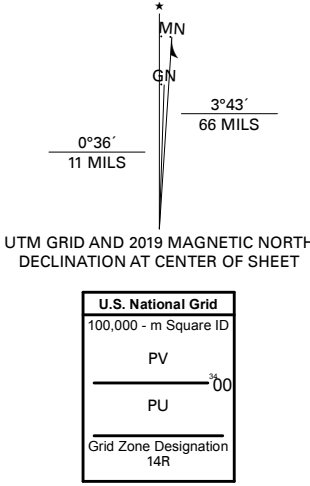
LEANDER NE QUADRANGLE
TEXAS - WILLIAMSON COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection and
1 000 meter grid/Universal Transverse Mercator, Zone 14R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAIP, August 2016 - November 2016
Roads.....U.S. Census Bureau, 2015
Names.....GNS, 1979 - 2018
Hydrography.....National Hydrography Dataset, 2002 - 2011
Contours.....National Elevation Dataset, 2002 - 2004
Boundaries.....Multiple sources; see metadata file 2016 - 2017
Wetlands.....FWS National Wetlands Inventory 1982



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18



1	2	3
4	5	6
7	8	9

1 Mahomet
2 Florence
3 Cobbs Cavern
4 Liberty Hill
5 Georgetown
6 Nameless
7 Leander
8 Round Rock

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
US Route
State Route

LEANDER NE, TX
2019

*7643016396982
NSN 7643016396982
NSA REF NO. USGS X 2.4 K 2.5 2.9

Contributing Zone Plan Application - TCEQ Form 10257

Attachment C: Project Narrative

The subject site is located at 450 County Road 258, Liberty Hill, Texas and is located in the Edwards Aquifer Contributing Zone. The overall tract is 59.64 acres and is bisected by an existing drainage ditch that generally runs north and south. The Previously approved Liberty Hill Middle School No. 3 is located on the east side of the drainage channel and there are no proposed changes to the water quality ponds treating the eastern portion of the site. This project has commenced construction but has not been completed.

The west side of the channel remains undeveloped with open pasture and some copse of primarily oak trees with some cedar elm and cedar trees in its current condition. The proposed improvements under this package include an extension of the on-site driveway west to the subject property's intersection with the US Hwy 183 Right-of-Way, a proposed turn lane to service the new driveway, and a new sand filter water quality pond to treat stormwater from the west side of the site.

The new impervious cover is addressed using a new sand filter basin shown in the plans just west of the central channel. The overflow from the basin splitter structure is routed to a storm water detention basin and ultimately discharges to the drainage ditch east of the new pond. The drainage area discharging into the new basin is 15.31 acres and for this initial permit treats 1.79 acres of impervious cover.

When considering the total 59.64-acre site the currently proposed permit includes 1.79 acres of impervious cover in addition to 16.72 acres of impervious cover under the previous permit, for a total of 31.0% of the overall site.

This site is planned to be expanded in the future to accommodate additional education facilities resulting in additional site impervious coverage. The sand filter basin and detention basin have been over-sized to accommodate the additional impervious cover. The ultimate drainage area is anticipated to remain 15.31 acres and is designed to treat 12.25 acres or 80% impervious cover.

Upgradient storm water flowing towards the site will be intercepted at the Western boundary and routed via channel through the site to an unnamed tributary central to the site which ultimately flows to the South Fork of the San Gabriel River.

Contributing Zone Plan Application - TCEQ Form 10257

Attachment D: Factors Affecting Surface Water Quality

The potential factors affecting **construction period surface water quality** from this site are: sediment runoff from disturbed areas, petroleum products runoff from drips from construction equipment, pesticides and fertilizers from landscaping activities, and high pH washwater from concrete and masonry cleanup/ washout facilities. Sediment runoff will be significantly reduced during construction by the use of an onsite temporary sedimentation ponds. The high pH washwater potential will be controlled by requiring the use of appropriately sized, plastic-lined containment areas for concrete and masonry cement washout and cleanup activities. The petroleum and pesticide/ fertilizer sources will be minimized by the use of good housekeeping procedures and inspections by trained personnel to ensure that all construction activities follow the procedures given on SWPPP Plan included as part of the construction drawings prepared for the site.

The potential factors affecting **post-construction surface water quality** from this site are: pesticide and fertilizer runoff from vegetated areas, petroleum products runoff from parking areas and drives. Sediment runoff from the site will be significantly reduced by the action of the water quality/ detention pond with sand filter permanent BMP. Pesticide/ fertilizer runoff will be minimized by education of the school employees or outside landscaping firm relative to acceptable landscaping practices after construction activities are completed.

Contributing Zone Plan Application TCEQ Form 10257

Attachment E: Volume and Character of Stormwater

Please refer to Drainage Area Maps in the construction plans for more details on the information presented below.

Pre-construction conditions: The total studied drainage area is 242.10 acres. All areas labeled with a suffix of "BP-" are bypassing the existing detention and water quality basins and discharging directly to the North-South running channel central to the site. Onsite hydrology is as shown on existing drainage area map with 31.68 acres contributing to the existing sand filters and detention pond that were constructed with previously approved middle school. Calculations are based on the Rational Method $Q = C \cdot I \cdot A$, as presented in the 2020 Round Rock Drainage Criteria Manual.

PRE-DEVELOPMENT DRAINAGE AREA CALCULATIONS														
Drainage Area Designation	Drainage Area	Runoff Coefficient "C"				Time of Concentration	2-Year Rainfall Intensity (I2)	2-Year Peak Discharge (Q2)	10-Year Rainfall Intensity (I10)	10-Year Peak Discharge (Q10)	25-Year Rainfall Intensity (I25)	25-Year Peak Discharge (Q25)	100-Year Rainfall Intensity (I100)	100-Year Peak Discharge (Q100)
-	(ac)	2- Yr	10- Yr	25- Yr	100- Yr	(min)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)
BP-1	5.48	0.33	0.38	0.42	0.49	25	2.93	5.3	4.77	9.9	5.91	13.6	7.79	20.9
BP-2	4.80	0.33	0.38	0.42	0.49	26	2.87	4.5	4.68	8.5	5.79	11.7	7.64	18.0
BP-3	11.03	0.33	0.38	0.42	0.49	14	3.92	14.3	6.30	26.4	7.72	35.8	10.01	54.1
BP-4	132.49	0.43	0.48	0.52	0.60	42	2.15	121.1	3.54	226.4	4.42	307.0	5.90	468.0
BP-5	56.61	0.38	0.43	0.48	0.55	24	3.00	64.6	4.88	119.9	6.03	162.3	7.94	246.3
DA-1	31.68	-	-	-	-	-	-	46.9	-	113.0	-	140.1	-	184.4
Total	242.10							256.64		504.14		670.45		991.70
Note: Calculations based on the Rational Method: Q = C*I*A														

Note: Calculations based on the Rational Method: $Q = C \cdot I \cdot A$

Post-construction conditions: Similar to the existing condition, the total study area and bypass designations do not change. The peak discharge rates for post-construction are equal to or less than pre-developed discharge rates.

POST-DEVELOPMENT DRAINAGE AREA CALCULATIONS														
Drainage Area Designation	Drainage Area	Runoff Coefficient "C"				Time of Concentration	2-Year Rainfall Intensity (I2)	2-Year Peak Discharge (Q2)	10-Year Rainfall Intensity (I10)	10-Year Peak Discharge (Q10)	25-Year Rainfall Intensity (I25)	25-Year Peak Discharge (Q25)	100-Year Rainfall Intensity (I100)	100-Year Peak Discharge (Q100)
-	(ac)	2- Yr	10- Yr	25- Yr	100- Yr	(min)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)
BP-1	5.48	0.33	0.38	0.42	0.49	25	2.93	5.3	4.77	9.9	5.91	13.6	7.79	20.9
BP-2	4.80	0.33	0.38	0.42	0.49	26	2.87	4.5	4.68	8.5	5.79	11.7	7.64	18.0
BP-3	11.03	0.33	0.38	0.42	0.49	14	3.92	14.3	6.30	26.4	7.72	35.8	10.01	54.1
BP-4	132.49	0.43	0.48	0.52	0.60	42	2.15	121.1	3.54	226.4	4.42	307.0	5.90	468.0
BP-5	19.64	0.38	0.43	0.48	0.55	20	3.30	24.7	5.35	45.6	6.60	61.6	8.65	93.0
BP-6	21.66	0.39	0.44	0.48	0.56	24	3.00	25.2	4.88	46.8	6.03	63.3	7.94	95.9
DA-1	31.68	-	-	-	-	-	-	46.9	-	113.0	-	140.1	-	184.4
DA-2	15.31	-	-	-	-	-	-	2.0	-	26.7	-	44.2	-	62.1
Total	242.10							234.17		484.92		651.95		957.50

Note: Calculations based on the Rational Method: $Q = C \cdot I \cdot A$

Contributing Zone Plan Application TCEQ Form 10257

Attachment J: BMPs for Upgradient Stormwater

Upgradient stormwater will be captured in a channel along the west property line and diverted to an unnamed tributary of the South Fork of the San Gabriel River central to the site. Therefore, no upgradient stormwater will cross the surface of the proposed school site.

Contributing Zone Plan Application TCEQ Form 10257

Attachment K: BMPs for onsite stormwater

Construction Phase

Please refer to Plan Sheets for more information and details about the information presented below.

Stabilization practices for this site include:

1. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed
2. Frequent watering of excavation and fill areas to minimize wind erosion during construction.
3. Permanent seeding and planting of all unpaved areas.
4. Use of stabilization fabric for all slopes having a slope of 1V:3H or greater
5. For all disturbed areas where construction activities have temporarily or permanently ceased for more than 14 days, stabilization activities shall commence no later than the 14th day after cessation of construction activities.

Structural practices for this site include:

1. Inlet protection using block and gravel filled bags and silt fence
2. Perimeter protection using silt fencing and/or erosion control logs
3. Stabilized construction exit point
4. Contractor shall provide sufficient velocity dissipation devices in the form of rock check dams and/or rock rip rap for velocity dissipation at areas with existing or potential channelized flow.

Permanent phase: water quality/ detention pond with sand filter

An on-site water quality/ detention pond with sand filter, which has been designed in accordance with the TCEQ Edwards Aquifer Compliance Technical Guidance Manual on Best Management Practices, will be constructed by the Owner for use as a permanent water quality and water quantity control system. All storm water runoff from the school site will be routed to inlets in the subsurface storm water collection system and will then flow to the on-site water quality/ detention pond with sand filter.

Contributing Zone Plan Application TCEQ Form 10257

Attachment L: BMPs for surface streams

The stormwater runoff from this site will flow into an on-site water quality/ detention pond with sand filter, built and maintained by the Owner, before passing into a seasonal tributary of the South Fork of the San Gabriel River. These ponds will provide effective protection to the water quality of this surface stream.

Contributing Zone Plan Application TCEQ Form 10257

Attachment M: Construction Plans

Please refer to construction plans prepared for this construction site which are a separate part of the permit application package.

Contributing Plan Application TCEQ Form 10257

Attachment N: Inspection, maintenance, repair, and retrofit plan for sand filter

The Owner shall implement the following inspection, maintenance, repair, and record keeping procedures for the sand filter located within the detention pond designed to serve the site.

1. **Inspection:** Owner's representative shall visually inspect the extended detention pond at least every 3 months, and after each large storm for the first year of operation. For the second and following years, inspections may be limited to every 6 months and at least one time per year after a large storm. Because construction activities can contribute heavy sediment and debris loads, construction activities should be completed, and all areas should be stabilized, prior to exposing the sand filter to stormwater runoff. During each inspection, erosion areas inside and downstream of the sand filter shall be identified and repaired or revegetated immediately. Any damage to structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) shall be identified and repaired immediately. Cracks, voids, and undermining effects shall be patched/filled to prevent additional structural damage. Trees and root systems shall be removed to prevent growth in cracks and joints that can lead to structural damage.

2. **Sediment Removal:** Sediment shall be removed from the inlet structure and sedimentation chamber when sediment buildup reaches a depth of 6" or when the proper functioning of inlet and outlet structure is impaired. Sediment shall be cleared from the inlet structure at least once per year and from the sedimentation basin at least once every 5 years.

3. **Media Replacement:** Maintenance of the filter media shall be accomplished when the drawdown time exceeds 48 hours. When this maintenance is required, the upper layer of sand shall be removed and replaced with new material meeting the original specifications. Any discolored sand shall also be removed and replaced. IN filters that have been regularly maintained, this media replacement should be limited to the top 2-3".

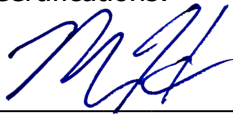
4. **Debris and Litter Removal:** Debris and litter that has accumulated near the sedimentation basin outlet device should be removed during regular mowing operations and during all inspections. Particular attention shall be directed towards floating debris that could eventually clog the control device or riser.

5. **Filter Underdrain:** Clean underdrain piping network to remove any sediment buildup, on an as needed basis, to maintain design drawdown time.

6. **Mowing:** Grassy areas in and around the sand filter shall be mowed at least two times per year, with more frequent mowing as necessary to maintain aesthetic appeal. Vegetation height should be limited to 18". Vegetation on the pond embankments shall be mowed as often as is necessary to prevent the establishment of woody vegetation.

7. Record Keeping: The Owner's representative shall prepare a signed, written record of each inspection performed and actions performed as a result of the inspection observations, shall maintain those records in the Owner's office for a period of 5 years, and shall, upon request, make those records available to TCEQ personnel and other agencies with jurisdiction over the site.

Certifications:



Design Engineer

Matt Hardy, PE

Printed Name

2/9/2024

Date



PE Seal



Owner

DUSTIN AKIN

Printed Name

02/09/2024

Date

Contributing Zone Plan Application TCEQ Form 10257

Attachment P: Measures for minimizing surface stream contamination

An Owner's representative shall visually inspect all roof drains and drive/ parking area inlets in the collection system at a minimum interval of every 3 months, and at least once during or immediately following wet weather. Specific items to be observed are: the amount of sediment and/or trash buildup at inlets (removal required if > 10% of the inlet opening is blocked), the presence of standing water or soggy conditions, indicative of poor drainage, and damage to structural components (pipes, curb inlets, grate inlets, etc...)

The stormwater runoff from this site will flow into an on-site water quality/ detention pond with sand filter, built and maintained by the Owner, before passing into a seasonal tributary of the South Fork of the San Gabriel River. An Owner's representative shall visually inspect all downstream flow path at a minimum interval of every 3 months. These combined onsite and offsite practices will provide effective measures to minimize surface stream contamination.

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: Matt Hary, PE

Date: 02/08/2024

Signature of Customer/Agent:



Regulated Entity Name: Liberty Hill Middle School No. 3

Project Information

Potential Sources of Contamination

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

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

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

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

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

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

Sequence of Construction

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

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.

Temporary Stormwater Management Practices TCEQ Form 0602

Attachment A Spill Response Actions

SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN

1 MATERIALS COVERED

The following materials or substances with known hazardous properties are expected to be present onsite during construction:

Concrete	Cleaning solvents
Detergents	Petroleum based products
Paints	Pesticides
Paint solvents	Acids
Fertilizers	Concrete additives
Soil stabilization additives	

2 MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

2.1 Good Housekeeping

The following good housekeeping practices will be followed onsite during the construction project.

- A. An effort will be made to store only enough product required to do the job.
- B. All materials stored onsite will be stored in a neat, orderly manner and, if possible, under a roof or other enclosure.
- C. Products will be kept in their original containers with the original manufacturer's label in legible condition.
- D. Substances will not be mixed with one another unless recommended by the manufacturer.
- E. Whenever possible, all of a product will be used up before disposing of the container.
- F. Manufacturer's recommendations for proper use and disposal will be followed.
- G. The job site superintendent will be responsible for daily inspections to ensure proper use and disposal of materials.

2.2 Hazardous Products

These practices will be used to reduce the risks associated with hazardous materials.

- A. Products will be kept in original containers with the original labels in legible condition.
- B. Original labels and material safety data sheets (MSDS's) will be procured and used for each material.
- C. If surplus product must be disposed of, manufacturers or local/state/federal recommended methods for proper disposal will be followed.
- D. A spill control and containment kit (containing, for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.
- E. All of the product in a container will be used before the container is disposed of. All such containers will be triple rinsed with water prior to disposal. The rinse water used in these containers will be disposed of in a manner in compliance with state and federal regulations and will not be allowed to mix with stormwater discharges.

2.3 Product Specific Practices

The following product specific practices will be followed on the job site.

A. Petroleum Products

All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any petroleum storage tanks used onsite will have a dike or berm containment structure constructed around it to contain any spills which may occur. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

B. Fertilizers

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

C. Paints, Paint Solvents, and Cleaning Solvents

All containers will be tightly sealed and stored when not in use. Excess paint and solvents will not be discharged to the storm sewer system but will be properly disposed of according to manufacturer's instructions or state and federal regulations.

D. Concrete Trucks

The CGP authorizes the land disposal of wash out water from concrete trucks at construction sites that are regulated under the CGP, as long as the discharge is in compliance with the restrictions given in Section 3.02.4.B of this SWPPP. This authorization is limited to the land disposal of wash out water from concrete trucks only. Any other direct discharge of concrete production waste water is not authorized by the CGP and must be authorized under a separate TCEQ General Permit or individual permit.

2.4 Spill Prevention Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup.

- A. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.
- B. Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite in spill control and containment kit (containing, for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.).
- C. All spills will be cleaned up immediately after discovery.
- D. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substances.
- E. Spills of toxic or hazardous materials will be reported to the appropriate federal, state, and/or local government agency, regardless of the size of the spill. Spills of amounts that exceed Reportable Quantities of certain substances specifically mentioned in federal regulations (40 CFR 302 list and oil) will be immediately reported to the TCEQ National Response Center, telephone **1-800-832-8224**. Reportable Quantities of some substances which may be used at the job site are as follows:
 - oil - appearance of a film or sheen on water
 - pesticides - usually 1 lb.
 - acids - 5000 lb.
 - solvents, flammable - 100 lb.
- F. The SPCC plan will be adjusted to include measures to prevent this type of spill from recurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included. If the spill exceeds a

Reportable Quantity, all federal regulations regarding reports of the incident will be complied with.

- G. The job site superintendent will be the spill prevention and cleanup coordinator. He will designate the individuals who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of these personnel will be posted in the material storage area and in the office trailer onsite.

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Attachment B Potential Sources of Contamination

The following are the potential pollutants and their sources which may occur at this construction site: offsite vehicle tracking of mud from vehicle traffic through inadequate construction exit, petroleum based products from vehicle/ equipment leaks and drips (maintenance and petroleum storage areas will not be allowed on the construction site), pesticides and fertilizers from landscaping activities, and high pH washwater from concrete and masonry cleanup/ washout facilities.

Temporary Stormwater Management Practices TCEQ Form 0602

Attachment C Sequence of Major Activities

The Contractor will be responsible for implementing the following erosion and sediment control and stormwater management control structures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the general contractor. The order of activities will be as follows (refer to Erosion Control Plan contained in the Construction Plans for the project for details):

- A. Install silt fence around perimeter of property and disturbed areas as shown on the SWPPP plan sheet. (Approx. 21.4 acres)
- B. Install inlet protection for all existing grate inlets, curb inlets, and at the end of all exposed storm sewer pipes, if present. (Approx. 0.5 acres)
- C. Construct temporary construction exit. (Approx 0.1 acres)
- D. Commence grubbing and removal of vegetation in area to receive cut or fill. (Approx. 21.4 acres)
- E. Construct temporary sediment pond with Faircloth skimmer outlet structure, as shown on the plans. (Approx. 3 acres)
- F. Install all underground utilities. (Approx. 1.0 acre)
- G. Finalize pavement subgrade preparation. (Approx. 5.3 acres)
- H. Install all proposed storm sewer pipes and install inlet protection silt fences at ends of exposed pipes. (Approx. 0.5 acres)
- I. Construct all grate inlets and drainage structures. Inlet protection silt fences may be removed temporarily for this construction. (Approx. 0.5 acres)
- J. Temporary sediment pond and outlet structure may be removed after the storm sewer system is installed and functional and inlet protection is in place and functional at all storm sewer inlets. Sediment removed from the sediment pond may be relocated on site. (Approx. 3 acres)
- K. Install base material as required for pavement, curb and gutter. (Approx. 5.3 acres)
- L. Install all paving, curb and gutter. (Approx. 5.3 acres)
- M. Complete planting and/or seeding of vegetated areas to accomplish stabilization, in accordance with the landscaping plan. (Approx. 21.4 acres)
- N. Remove temporary construction exit, silt fence, inlet protection, and all other temporary sediment controls. (Approx. 21.4 acres)

Temporary Stormwater Management Practices TCEQ Form 0602

Attachment D Temporary Best Management Practices

The following temporary best management practices will be used on the construction site

Stabilization Practices

1. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed
2. Frequent watering of excavation and fill areas to minimize wind erosion during construction.
3. Use of stabilization fabric for all slopes having a slope of 1V:3H or greater.
4. Permanent seeding and planting of all unpaved areas.
5. For all disturbed areas where construction activities have temporarily or permanently ceased for more than 14 days, stabilization activities shall commence no later than the 14th day after cessation of construction activities or after final grades have been achieved.

Temporary Stormwater Management Practices TCEQ Form 0602

Attachment F Structural Practices

The following structural best management practices will be used on the construction site

1. Inlet protection using gravel filled bags and silt fence.
2. Perimeter protection using silt fencing and/or erosion control logs
3. Stabilized construction exit point
4. Temporary sediment pond with Faircloth skimmer and emergency overflow weir outlet structures for dewatering.
5. Diversion berm/ swale to channel onsite runoff flow into the sediment basin.
6. Rock check dams
7. Temporary concrete washout area
8. Use of rock rip rap for velocity dissipation at areas with existing or potential channelized flow.

Temporary Stormwater Management Practices TCEQ Form 0602

Attachment G Drainage Area Map

Please refer to Plan Sheets Existing Drainage Area Map and Proposed Drainage Area Map of the Construction Plans for this project.

Temporary Stormwater Management Practices TCEQ Form 0602

Attachment H Temporary sediment pond plans and calculations

The temporary sediment basin has been sized to accommodate the expected stormwater runoff from the 2 yr 24 hr storm.

Sizing of the temporary sediment basin was done using the Rational method for runoff calculation with a weighted runoff coefficient of 0.30, 3.94" rainfall for the 2yr/ 24h storm in Williamson County, and 15.31 acres of drainage area. The calculated stormwater runoff to be contained in the sediment pond is 1.51 acre feet or 65,690 cubic feet. The volume provided is 69,006 cubic feet.

$$\text{Runoff} = 3.94" / 12 * 0.30 * 15.31\text{ac} * 43560 = 65,690 \text{ cubic feet} = 1.51 \text{ AF}$$

Sediment Basin Volume provided: 69,006 cubic feet = 1.58 AF

Three Faircloth skimmer dewatering devices will be used to release the detained stormwater over a period of 36-48 hours.

Temporary Stormwater Management Practices TCEQ Form 0602

Attachment I Inspection/ Maintenance for BMPs

I. Erosion and Sediment Control Maintenance and Inspection Practices

A. The following is a list of erosion and sediment controls to be used on this site during construction practice.

1. Stabilization practices for this site include:

- A. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed
- B. Frequent watering of excavation and fill areas to minimize wind erosion during construction.
- C. Use of stabilization fabric for all slopes having a slope of 1V:3H or greater.
- D. Permanent seeding and planting of all unpaved areas.
- E. For all disturbed areas where construction activities have temporarily or permanently ceased for more than 14 days, soil stabilization activities shall commence as soon as practicable but no later than the 14th day after cessation of construction activities.

2. Structural practices for this site include:

- A. Inlet protection using block and gravel-filled bags and fabric filter material
- B. Perimeter protection using silt fencing and/or straw roll wattles
- C. Stabilized construction exit point
- D. Temporary sediment pond with outlet structure and Faircloth skimmer for dewatering

Velocity Dissipation: Contractor shall provide sufficient velocity dissipation devices to prevent soil erosion at discharge points where concentrated flow occurs or is expected to occur.

B. The following inspection and maintenance practices will be used to maintain erosion and sediment controls.

- 1. All control measures will be inspected weekly and after each rainfall event.

2. All measures will be maintained in good working order; if repairs are found to be necessary, they will be initiated within 24 hours of report and completed prior to the next anticipated rainfall event. If completion of required repairs cannot be accomplished prior to the next anticipated rainfall event, the reason shall be documented in the SWPPP for the site and completion shall be accomplished as soon as practicable.
3. Built up sediment will be removed from silt fence when it has reached one-third the height of the fence.
4. Silt fences will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are securely in the ground.
5. The sediment basin, if present, will be inspected for depth of sediment, and built up sediment will be removed when it reaches 50 percent of the design capacity. **Contractor shall install a depth gauge in the sediment basin to use in evaluating the depth of accumulated sediment to determine when sediment removal is required.**
6. Temporary and permanent seeding will be inspected for bare spots, washouts, and healthy growth.
7. A maintenance inspection report will be made after each inspection. Copies of the report forms to be completed by the inspector are included in the SWPPP for the site.
8. The job site superintendent will be responsible for selecting and training the individuals who will be responsible for these inspections, maintenance and repair activities, and filling out inspection and maintenance reports.
9. Personnel selected for the inspection and maintenance responsibilities will receive training from the job site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls that are used onsite in good working order. They will also be trained in the completion of, initiation of actions required by, and the filing of the inspection forms. Documentation of the qualifications of inspection personnel must be kept in the SWPPP for the site.

II. Inspection and Maintenance Report Forms

Once installation of any required or optional erosion control device or measure has been implemented, weekly inspections of each measure shall be performed by the Contractor's inspection personnel. The Inspection and Maintenance Reports found in the SWPPP for the site (or other forms which the Contractor desires to use that have been approved by

the Engineer) shall be used by the inspectors to inventory and report the condition of each measure to assist in maintaining the erosion and sediment control measures in good working order.

Based on the results of the periodic inspections, necessary control modifications shall be initiated within 24 hours and completed prior to the next anticipated rain event. These inspection reports shall be kept on file as part of the Storm Water Pollution Prevention Plan for at least three years from the date of completion and submission of the Notice of Termination.

These report forms shall become an integral part of the SWPPP for the site and shall be made readily accessible to TCEQ inspection officials, the Civil Engineering Consultant, and the Owner for review upon request during visits to the project site. In addition, copies of the reports shall be provided to any of these persons, upon request, via mail or facsimile transmission.

The following forms shall be utilized by inspectors to report on the incremental status and condition of the control measures used on the site:

III. Summary of Erosion and Sediment Control Maintenance/Inspection Procedures

- ☐ All control measures will be at least weekly and after each rainfall event.
- ☐ All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report and completed prior to the next anticipated rain event.
- ☐ Built-up sediment will be removed from silt fences when it has reached one-third the height of the fence.
- ☐ Silt fences will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- ☐ Sediment basins, if present, will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 50% of the design capacity or at the end of the job. **Contractor shall install a depth gauge in the sediment basin to use in evaluating the depth of accumulated sediment to determine when sediment removal is required.**
- ☐ Diversion dikes, if present, will be inspected and any breaches promptly repaired.
- ☐ If sediment escapes the site, accumulations will be removed at a frequency to minimize further negative effects, and whenever feasible, prior to the next forecasted rain event.
- ☐ Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.

- ☐ A maintenance inspection report will be made after each inspection. Copies of the report forms to be used are included in the SWPPP for the site.
- ☐ The site job superintendent will select the individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance reports.
- ☐ Personnel selected for inspection and maintenance responsibilities will receive training from the site job superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order. Records documenting the training and experience qualifications of each and every inspector shall be kept with the Inspection Record Forms in the SWPPP for the site.

IV. Construction/Implementation Checklist

1. Maintain Records of Construction Activities, including:

- Dates when major grading activities occur
- Dates when construction activities temporarily cease on a portion of the site
- Dates when construction activities permanently cease on a portion of the site
- Dates when stabilization measures are initiated on the site
- Dates of rainfall events and post-rainfall inspections

2. Prepare Inspection Reports summarizing:

- Name of inspector
- Qualifications of Inspector
- Control measures/areas inspected
- Observed conditions and areas of non-compliance
- Location of any discharges of sediments or other pollutants from the site
- Recommended remedial actions and action on previously recommended remedial actions
- Statement that the site is or is not in compliance with the Permit/SWPPP
- Changes necessary to the SWPPP for the site

3. Report Releases of Reportable Quantities of Oil or Hazardous Materials (if they occur):

- Notify TCEQ Spill Response Center (**1-800-832-8224**) immediately
- Notify permitting authority in writing within 14 days
- Modify the pollution prevention plan to include:
 - the date of release
 - circumstances leading to the release
 - steps taken to prevent recurrence of the release

4. Modify Pollution Prevention Plan as necessary to:

- ☐ Comply with the minimum permit requirements when notified by TCEQ that the plan does not comply
- ☐ Address a change in design, construction operation, or maintenance which has an effect on the potential for discharge of pollutants
- Prevent recurrence of reportable quantity releases of a hazardous material or oil

Temporary Stormwater Management Practices TCEQ Form 0602

Attachment J Interim/ permanent soil stabilization practices

Final Stabilization/Termination Checklist

1. ▪ All soil disturbing activities are complete
2. ▪ Temporary erosion and sediment control measures have been removed or will be removed at an appropriate time
3. ▪ All areas of the construction site not otherwise covered by a permanent pavement or structure have been stabilized with a uniform perennial vegetative cover with a density of 70% or equivalent measures have been employed

Plans for the Construction of
WATER, PAVING, GRADING
& DRAINAGE IMPROVEMENTS
To Serve
LIBERTY HILL MIDDLE SCHOOL #3
WEST CONNECTOR DRIVE
450 COUNTY ROAD 258

JOHN B. ROBINSON SURVEY, ABSTRACT NO. 521
CITY OF LIBERTY HILL ETJ
WILLIAMSON COUNTY, TEXAS

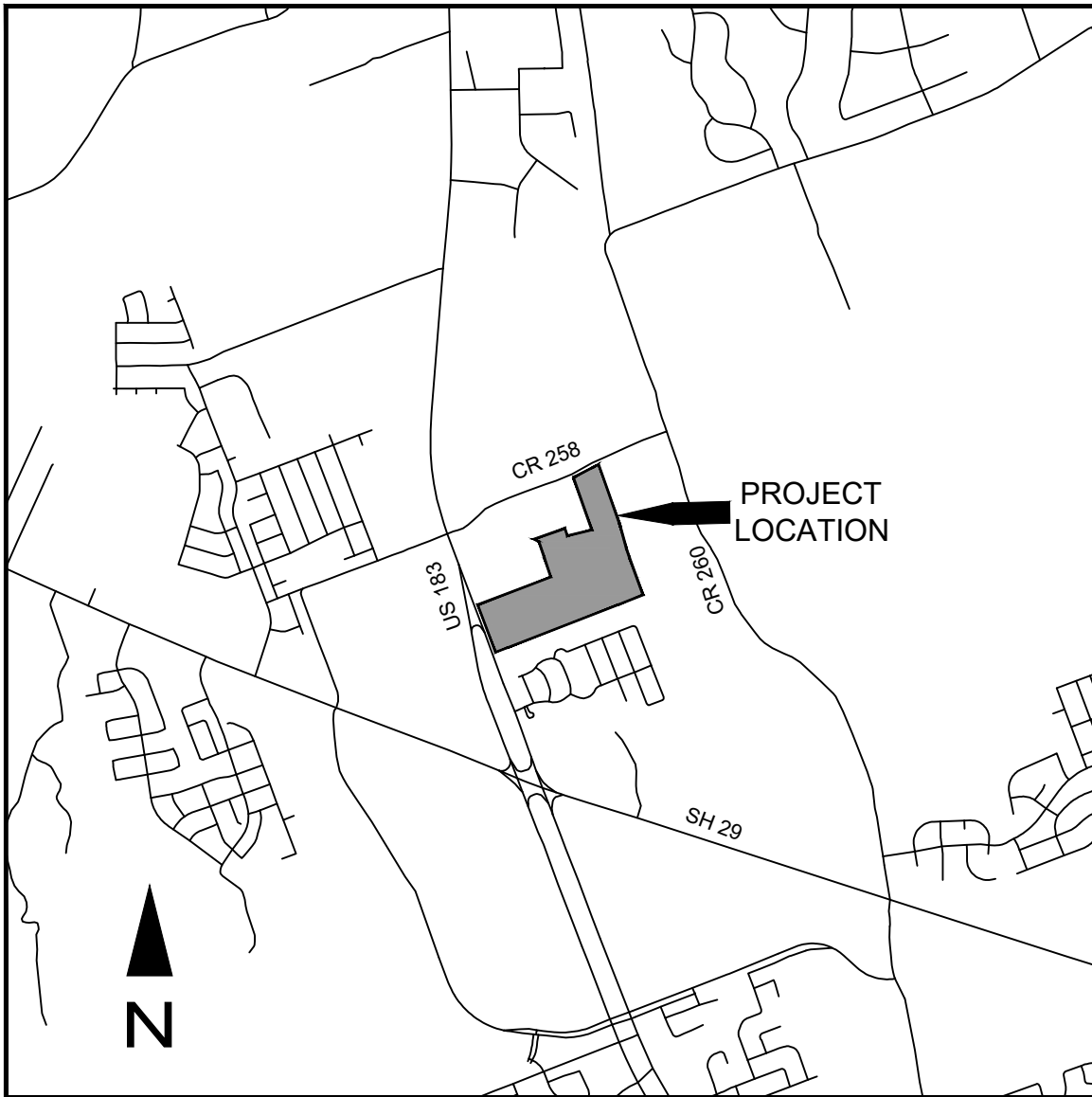
INDEPENDENT SCHOOL DISTRICT
LIBERTY HILL ISD
301 FORREST STREET
LIBERTY HILL, TX 78642
CONTACT: DUSTIN AKIN
PHONE: (512) 260-5580
EMAIL: DAKIN@LIBERTYHILL.TXED.NET

CIVIL ENGINEER
LANGAN
9606 N. MOPAC EXPRESSWAY, SUITE 110
AUSTIN, TX 78759
CONTACT: MATT HARDY, PE
PHONE: (817) 328-3240
EMAIL: MHARDY@LANGAN.COM

LANDSCAPE ARCHITECT
LANGAN
9606 N. MOPAC EXPRESSWAY, SUITE 110
AUSTIN, TX 78759
CONTACT: BEN HENRY, PLA, LEED AP BD+C
PHONE: (817) 328-3217
EMAIL: BHENRY@LANGAN.COM

SURVEYOR
JPH LAND SURVEYING, INC.
1516 E. PALM VALLEY BOULEVARD, SUITE A4
ROUND ROCK, TX 78664
CONTACT: CHRIS HENDERSON , R.P.L.S.
PHONE: (817) 431-4971
EMAIL: CHRIS@JPHLS.COM

CERTIFICATE OF COMPLIANCE (C OF C) PERMIT NUMBER _____



SITE MAP

1" = 1/2 MILE

LANGAN

9606 N. Mopac Expressway, Suite 110 ■ Austin, Texas 78759 ■ (737) 289-7800

LANGAN PROJECT NO. 531013311

February 2024

"WILLIAMSON COUNTY NOTE"
THE CONTRACTOR SHALL OBTAIN A "NOTICE OF PROPOSED INSTALLATION OF UTILITY LINE" PERMIT FROM WILLIAMSON COUNTY FOR ANY WORK PERFORMED IN THE EXISTING COUNTY RIGHT-OF-WAY (DRIVEWAY APRON, WATER MAIN TIE-IN, ETC.) THIS PERMIT APPLICATION WILL REQUIRE A LIABILITY AGREEMENT, A CONSTRUCTION COST ESTIMATE FOR WORK WITHIN THE RIGHT-OF-WAY INCLUDING PAVEMENT REPAIR (IF NEEDED), A PERFORMANCE BOND, CONSTRUCTION PLANS AND, IF NECESSARY, A TRAFFIC CONTROL PLAN, AN INSPECTION FEE, AND A PRE-CONSTRUCTION MEETING MAY ALSO BE REQUIRED, DEPENDING ON THE SCOPE OF WORK. THE PERMIT WILL BE REVIEWED AND APPROVED BY THE COUNTY ENGINEER, AND MUST ALSO BE APPROVED BY THE WILLIAMSON COUNTY COMMISSIONERS COURT IF ANY ROAD CLOSURE IS INVOLVED.

SHEET LIST TABLE	
C1.00	COVER SHEET
C2.00	GENERAL NOTES
C3.00	TCEQ NOTES
C4.00	TOPOGRAPHIC SURVEY
C5.00	OVERALL GRADING AND EROSION PLAN
C6.00	183 EXTENSION PAVING PLAN-PROFILE (1 OF 2)
C6.01	183 EXTENSION PAVING PLAN-PROFILE (2 OF 2)
C7.00	183 EXTENSION EXISTING DRAINAGE AREA MAP
C8.00	183 EXTENSION PROPOSED DRAINAGE AREA MAP
C9.00	183 EXTENSION WATER QUALITY PLAN
C10.00	183 EXTENSION WATER QUALITY CALCULATIONS
C11.00	183 EXTENSION WATER PLAN-PROFILE (1 OF 2)
C11.01	183 EXTENSION WATER PLAN-PROFILE (2 OF 2)
C12.00	EROSION CONTROL DETAILS
C13.00	WATER DETAILS
C14.00	DRAINAGE DETAILS
C15.00	PAVING DETAILS

MCKENZI HICKS, DIRECTOR OF PLANNING
CITY OF LIBERTY HILL, TEXAS

DATE

LIZ BRANIGAN, MAYOR
CITY OF LIBERTY HILL, TEXAS

DATE

ELAINE SIMPSON, CITY SECRETARY
CITY OF LIBERTY HILL, TEXAS

DATE

CURTIS STEGER, P.E., CITY ENGINEER
CITY OF LIBERTY HILL, TEXAS

DATE

Based on the design engineer's certification of compliance with all applicable City, State and Federal regulations, the plans and specifications contained herein have been reviewed and are found to be in compliance with the requirements of the City of Liberty Hill.

REVIEWED FOR COMPLIANCE WITH WILLIAMSON COUNTY REQUIREMENTS.

SIGNATURE

DATE

REVIEWED FOR COMPLIANCE WITH CITY OF GEORGETOWN WATER DEPARTMENT REQUIREMENTS.

SIGNATURE

DATE

Date

Description

No.

Revisions

STATE OF TEXAS
MATTHEW S. HARTY
134448
LICENSED PROFESSIONAL ENGINEER

02-08-2024

TBPE Registration #: F-13709

LANGAN

Langan Engineering and Environmental Services, Inc.

9606 N. Mopac Expressway, Suite 110
Austin, TX 78759

T: 737.289.7800 F: 737.289.7801 www.langan.com
TBPE FIRM REG. #F-13709

Project
LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE

LIBERTY HILL TEXAS
Drawing Title

COVER SHEET


Project No.
531013311

Date
FEBRUARY 2024

Drawn By
NPF

Checked By
MSH

Drawing No.
C1.00

Date	Description	No.
Revisions		
		
TBPE Registration #: F-13709		
<h1>LANGAN</h1> <p>Langan Engineering and Environmental Services, Inc.</p> <p>9606 N. Mopac Expressway, Suite 110 Austin, TX 78759</p> <p>T: 737.289.7800 F: 737.289.7801 www.langan.com TBPE FIRM REG. #F-13709</p>		
Project		
<h2>LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE</h2> <p>LIBERTY HILL TEXAS</p>		
Drawing Title		
<h1>GENERAL NOTES</h1>		
Project No.		Drawing No.
531013111		C2.00
Date		
FEBRUARY 2024		
Drawn By		
NPF		
Checked By		
MSH		

Field: AC/RJ 2023/12/21 CTX7263
Revision: RDG 2024/01/03
Revision:

- LEGEND OF SYMBOLS**
- air conditioner
 - berchole
 - cable tv
 - electric meter
 - fence or handrail
 - fire dept. connection
 - fire hydrant
 - fire lane
 - guard rail
 - grease trap
 - bollard
 - grate inlet
 - gas meter
 - gas line
 - utility pole anchor
 - irrigation valve
 - landscape or tree line
 - landscape electric box
 - landscape light
 - light pole
 - mailbox
 - monitoring well
 - overhead utility lines
 - pool equipment
 - road sign
 - roof drain
 - silt fence
 - spot elevation
 - sanitary sewer manhole
 - sanitary sewer pipe
 - storm water manhole
 - storm water pipe
 - telephone manhole
 - tank fill lid
 - telephone riser
 - traffic signal pole
 - unknown manhole
 - utility clean out
 - utility cabinet
 - utility vault
 - utility pole
 - utility pole with riser
 - utility sign
 - water shutoff
 - water valve
 - water manhole
 - water meter
 - well
 - water line
 - one-foot contour lines
 - tree trunk (with canopy)
 - caliper inches at breast height
 - ornamental tree
 - multiple trunks
 - Google 360 Hyperlink

UTILITY WARNING

Unless otherwise stated, the client or client's representative did not provide JPH with plans and/or reports, and JPH did not coordinate a private utility locate request. If these Table A items are listed in the certification, the client, being aware of the factors listed above, has agreed for these Table A items to be addressed from a combination of online GIS maps, markings from locate request(s) to municipalities and 811 and observed evidence of utilities. The client is aware locate requests to 811 and the like, may be ignored or result in an incomplete response, in which case utilities may not have been marked, or not completely marked, at the time the fieldwork was performed. Therefore, utilities may exist which are not shown on this survey. Lacking excavation and/or a private utility locate request, the exact location of underground features cannot be accurately, completely, and reliably depicted.

FLOOD ZONE CLASSIFICATION

This property lies within ZONE(S) X (UNSHADED) of the Flood Insurance Rate Map for Williamson County, Texas and Incorporated Areas, map no. 48491C0245F, dated 2019/12/20, and map no. 48491C0275F, dated 2008/09/26, via scaled map location and graphic plotting and/or the National Flood Hazard Layer (NFHL) Web Map Service (WMS) at <http://hazards.fema.gov>.

TEXAS811 MARKED UTILITY LEGEND

ELECTRIC	1"	2"
GAS GAS-STEEL	1"	2"
COMMUNICATION-CATV	1"	2"
WATER	1"	2"
SEWER	1"	2"

MONUMENTS/DATUMS/BEARING BASIS

Monuments are found if not marked MNS or CRS.
CRS 1/2" rebar stamped "JPH Land Surveying" set
MNS 1/2" rebar stamped "JPH Land Surveying" set
TBM 4" site benchmark (see vicinity map for general location)
"1/2" cut in concrete
Vertex or common point (not a monument)
Coordinate values, if shown, are US SyFt/TxCS/83,CZ
Elevations, if shown, are NAVD83 (Geoid 18)
Bearings are based on the TxCS/83,CZ
Distances & areas shown are represented in surface values
Type I TxDOT Right of Way tapered concrete monument
Type II TxDOT Right of Way bronze cap in concrete
Type III TxDOT Right of Way aluminum cap

LEGEND OF ABBREVIATIONS

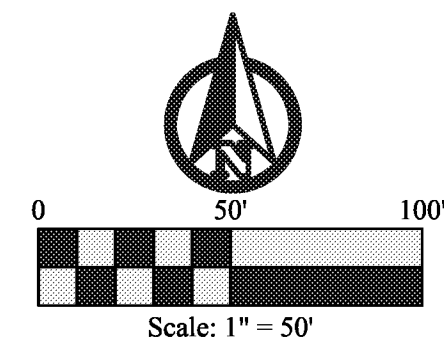
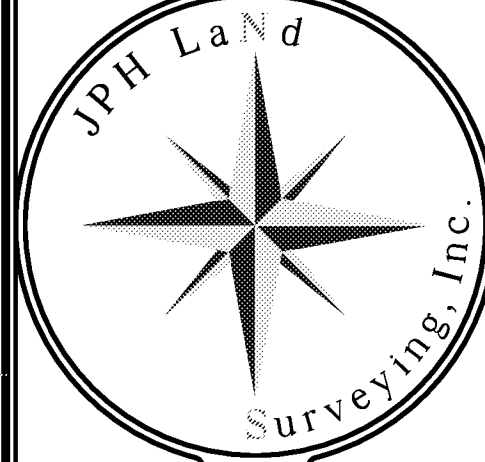
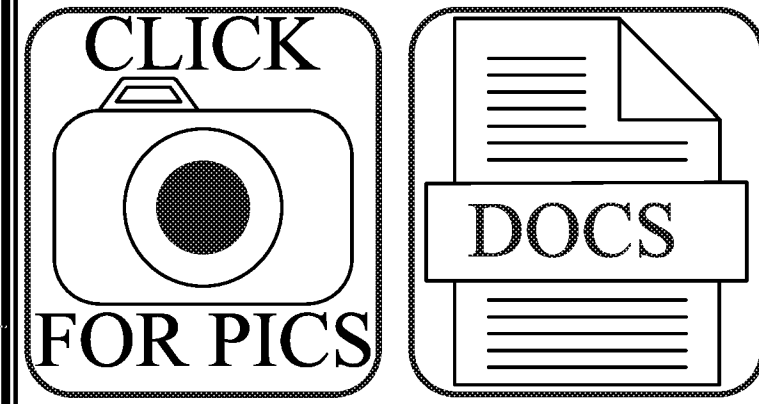
US.SyFt. United States Survey Feet
TxCS/83,CZ Texas Coordinate System of 1983, Central Zone
NAVD88 North American Vertical Datum of 1988
P.R.W.C.T. Plat Records of Williamson County, Texas
O.P.R.W.C.T. Official Public Records of Williamson County, Texas
D.R.W.C.T. Deed Records of Williamson County, Texas
VOL/PGLINST# Volume/Page/Instrument Number
POB/POC Point of Beginning/Point of Commencing
ESMT/BL Easement/Building Line
PVC/RCP Polyvinyl Chloride Pipe/Reinforced Concrete Pipe
CPP Corrugated Plastic Pipe

CITY OF GEORGETOWN UTILITY MAP

CLICK HERE FOR MAP IN PDF FORMAT

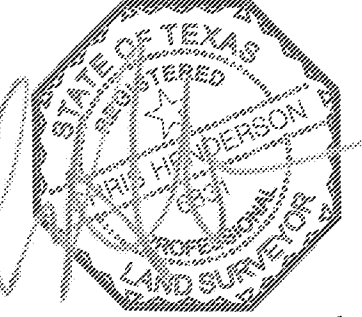


NOTE REGARDING UTILITIES:
Utility locations are per observed evidence and sources listed below:
TEXAS811 - ticket number(s) 2384860283
<https://portal.texas811.org/ticket/2384860283>
GIS MAPS - City of Georgetown Utility Information Interactive Map
<https://opendata-georgetownwtx.opendata.arcgis.com/pages/interactivemap>



JPH Job/Drawing No. (see below)
2020.128.004 450 N HWY 183, Liberty Hill, Williamson Co, TX - TOPO-CTX7263.dwg
© 2024 JPH Land Surveying, Inc. - All Rights Reserved
1516 E. Pains Valley Blvd., Ste. A4, Round Rock, Texas 78664
Telephone (817) 431-4971 www.jphlandsurveying.com
TBPELS Firm #10019500
DFW (Central Texas) West Texas | Houston | San Antonio

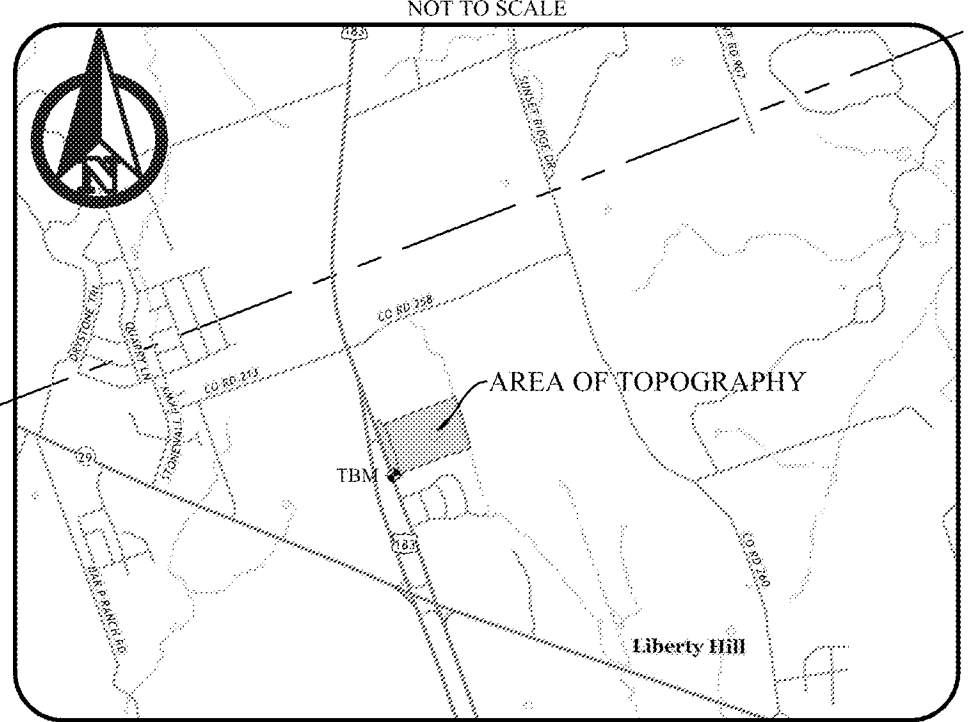
Chris Henderson
Registered Professional
Land Surveyor No. 6831
Chris@jphls.com
January 4, 2024



SURVEYOR'S NOTES:

- The site benchmark (TBM) is a mag nail with metal washer stamped "JPH BENCHMARK" set in a concrete driveway in the east margin of U.S. Highway 183, located approximately 1,860 feet southeasterly from the centerline intersection of U.S. Highway 183 and County Road 258. Benchmark Elevation = 1,045.18' (NAVD88, GEIOD 18). See vicinity map for general location.
- The site surface is natural ground/dirt, unless noted otherwise.
- Only trees 6" and greater, measured at chest height, were located for the purposes of this survey. This service excludes low-quality trees such as but not limited to, Chinaberry, Hackberry, Ashe Juniper (Cedar), Chinese Tallow, or Horse Apple.
- A portion of field work was completed August 22, 2023 as shown hereon, and the remainder of field work shown hereon was completed December 21, 2023.
- This survey was performed without the benefit of a title commitment. Complete copies of the record description of the property, any record easements benefiting the property, the record easements or servitudes and covenants affecting the property ("Record Documents"), documents of record referred to in the Record Documents, and any other documents containing desired appropriate information affecting the property being surveyed and to which the survey shall make reference were not provided to this surveyor for notation on the survey. Therefore, easements, agreements, or other documents, either recorded, or unrecorded may exist that affect the subject property that are not shown on this survey.
- This is not a boundary survey. Boundary lines shown hereon are for reference only for the purposes of this topographic survey and should not be construed as a "boundary survey" in compliance with the Texas Board of Professional Engineers and Land Surveyors minimum standards of procedures for boundary surveys.

VICINITY MAP

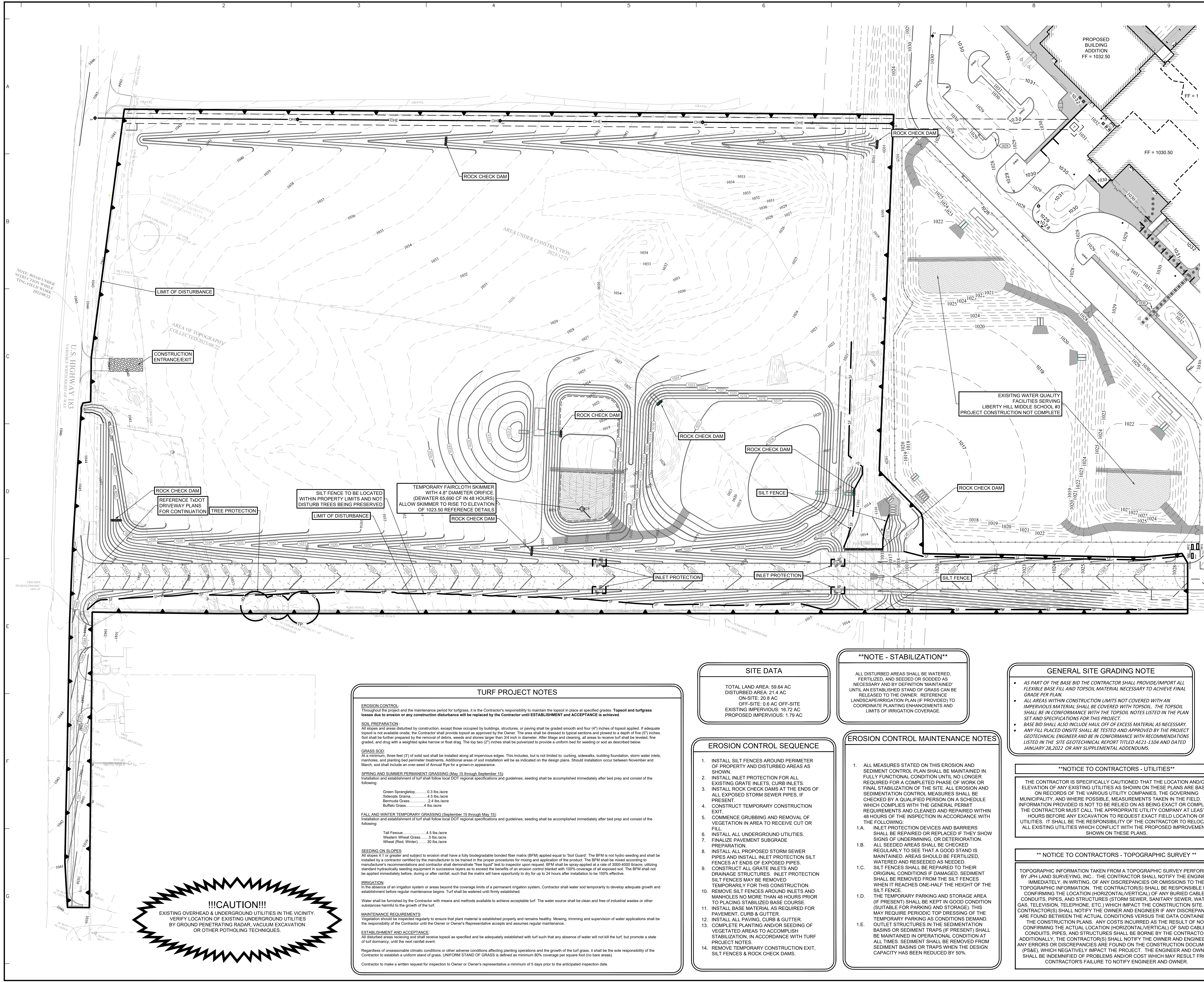


TOPOGRAPHIC SURVEY

BEING A PORTION OF
450 N. HIGHWAY 183

SITUATED IN THE
JOHN B. ROBINSON SURVEY, ABSTRACT NO. 521
CITY OF LIBERTY HILL, TEXAS
WILLIAMSON COUNTY, TEXAS

Date	Description	No.
Revisions		
TBPE Registration #: F-13709		
LANGAN Langan Engineering and Environmental Services, Inc. 9606 N. Mopac Expressway, Suite 110 Austin, TX 78759 T: 737.289.7800 F: 737.289.7801 www.langan.com TBPE FIRM REG. #F-13709		
Project LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE		
LIBERTY HILL TEXAS Drawing Title TOPOGRAPHIC SURVEY		
Project No. 531013311		C4.00
Date FEBRUARY 2024		
Drawn By		
Checked By		



LEGEND

PROPOSED CONTOUR
EXISTING CONTOUR
SPOT GRADE
PROPOSED FLOW ARROW
FG FINISHED GRADE
TP TOP OF PAVEMENT
TC TOP OF CURB
FL FLOWLINE
LIMITS OF DISTURBANCE
SILT FENCE
TREE PROTECTION
INLET PROTECTION
CONSTRUCTION EXIT
ROCK CHECK DAM

811
Know what's below.
Call before you dig.

THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

TURF PROJECT NOTES

EROSION CONTROL:
Throughout the project and the maintenance period for turfgrass, it is the Contractor's responsibility to maintain the topsoil in place at specified grades. Topsoil and turfgrass losses due to erosion or any construction disturbance will be replaced by the Contractor until ESTABLISHMENT AND ACCEPTANCE is achieved.

SOIL PREPARATION:
All slopes and areas disturbed by construction, except those occupied by buildings, structures, or paving shall be graded smooth and four (4") inches of topsoil applied. If adequate topsoil is not available onsite, the Contractor shall provide topsoil as approved by the Owner. The area shall be dressed to typical sections and plowed to a depth of five (5") inches. Soil shall be further prepared by the removal of debris, weeds and stones larger than 3/4 inch in diameter. After tillage and clearing, all areas to receive turf shall be leveled, fine graded, and drag with a weighted spike harrow or float drag. The top two (2") inches shall be pulverized to provide a uniform bed for seeding or sod as described below.

GRASS SOD:
At a minimum, three feet (3') of solid sod shall be installed along all impervious edges. This includes, but is not limited to: curbing, sidewalks, building foundation, storm water inlets, manholes, and parking bed perimeter treatments. Additional areas of sod installation will be as indicated on the design plans. Sod installation cover between November and March, and shall include an over-seed of Annual Ryegrass for a green-in appearance.

SPRING AND SUMMER PERMANENT GRASSING (May 15 through September 15):
Installation and establishment of turf shall follow local DOT regional specifications and guidelines; seeding shall be accomplished immediately after bed prep and consist of the following:

Green Sprangtop..... 0.3 lbs./acre
Sideoats Grama..... 4.5 lbs./acre
Bermuda Grass..... 2.4 lbs./acre
Buffalo Grass..... 4 lbs./acre

FALL AND WINTER TEMPORARY GRASSING (September 15 through May 15):
Installation and establishment of turf shall follow local DOT regional specifications and guidelines; seeding shall be accomplished immediately after bed prep and consist of the following:

Tall Fescue..... 4.5 lbs./acre
Western Wheat Grass..... 5 lbs./acre
Wheat (Red, Winter)..... 30 lbs./acre

SEEDING ON SLOPES:
All slopes 4:1 or greater and subject to erosion shall have a fully biodegradable bonded fiber matrix (BFM) applied equal to 'Soil Guard'. The BFM is not hydro seeding and shall be installed by a contractor certified by the manufacturer to be trained in the proper procedures for mixing and application of the product. The BFM shall be mixed according to manufacturer's recommendations and contractor shall demonstrate "free liquid" test to inspector upon request. BFM shall be spray-applied at a rate of 3000-4000 lbs/acre, utilizing standard hydraulically seeding equipment in successive layers as to exceed the benefits of an erosion control blanket with 100% coverage of all exposed soil. The BFM shall not be applied immediately before, during or after rainfall, such that the matrix will have opportunity to dry for up to 24 hours after installation to be 100% effective.

IRRIGATION:
In the absence of an irrigation system or areas beyond the coverage limits of a permanent irrigation system, Contractor shall water sod temporarily to develop adequate growth and establishment before regular maintenance begins. Turf shall be watered until firmly established.

Water shall be furnished by the Contractor with means and methods available to achieve acceptable turf. The water source shall be clean and free of industrial wastes or other substances harmful to the growth of the turf.

MAINTENANCE REQUIREMENTS:
Vegetation should be inspected regularly to ensure that plant material is established properly and remains healthy. Mowing, trimming and supervision of water applications shall be the responsibility of the Contractor until the Owner or Owner's Representative accepts and assumes regular maintenance.

ESTABLISHMENT AND ACCEPTANCE:
All disturbed areas receiving sod shall receive topsoil as specified and be adequately established with turf such that any absence of water will not kill the turf, but promote a state of turf dormancy, until the next rainfall event.

Regardless of unreasonable climatic conditions or other adverse conditions affecting planting operations and the growth of the turf grass, it shall be the sole responsibility of the Contractor to establish a uniform stand of grass. UNIFORM STAND OF GRASS is defined as minimum 80% coverage per square foot (no bare areas).

Contractor to make a written request for inspection to Owner or Owner's representative a minimum of 5 days prior to the anticipated inspection date.

SITE DATA

TOTAL LAND AREA: 59.64 AC
DISTURBED AREA: 21.4 AC
ON-SITE: 20.8 AC
OFF-SITE: 0.6 AC OFF-SITE
EXISTING IMPERVIOUS: 16.72 AC
PROPOSED IMPERVIOUS: 1.79 AC

EROSION CONTROL SEQUENCE

1. INSTALL SILT FENCES AROUND PERIMETER OF PROPERTY AND DISTURBED AREAS AS SHOWN.
2. INSTALL INLET PROTECTION FOR ALL EXISTING GRATE INLETS, CURB INLETS.
3. INSTALL ROCK CHECK DAMS AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES, IF PRESENT.
4. CONSTRUCT TEMPORARY CONSTRUCTION EXIT.
5. COMMENCE GRUBBING AND REMOVAL OF VEGETATION IN AREA TO RECEIVE CUT OR FILL.
6. INSTALL ALL UNDERGROUND UTILITIES.
7. FINALIZE PAVEMENT SUBGRADE PREPARATION.
8. INSTALL ALL PROPOSED STORM SEWER PIPES AND INSTALL INLET PROTECTION SILT FENCES AT ENDS OF EXPOSED PIPES.
9. CONSTRUCT ALL GRATE INLETS AND DRAINAGE STRUCTURES. INLET PROTECTION SILT FENCES MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION.
10. REMOVE SILT FENCES AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
11. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT; CURB & GUTTER.
12. INSTALL ALL PAVING, CURB & GUTTER.
13. COMPLETE PLANTING AND/OR SEEDING OF VEGETATED AREAS TO ACCOMPLISH STABILIZATION, IN ACCORDANCE WITH TURF PROJECT NOTES.
14. REMOVE TEMPORARY CONSTRUCTION EXIT, SILT FENCES & ROCK CHECK DAMS.

EROSION CONTROL MAINTENANCE NOTES

1. ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON ON A SCHEDULE WHICH COMPLES WITH THE GENERAL PERMIT REQUIREMENTS AND CLEANED AND REPAIRED WITHIN 48 HOURS OF THE INSPECTION IN ACCORDANCE WITH THE FOLLOWING:
- 1.A. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- 1.B. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED.
- 1.C. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
- 1.D. THE TEMPORARY PARKING AND STORAGE AREA (IF PRESENT) SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- 1.E. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS OR SEDIMENT TRAPS (IF PRESENT) SHALL BE MAINTAINED IN OPERATIONAL CONDITION AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

****NOTE - STABILIZATION****

ALL DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND SEEDED OR SODDED AS NECESSARY AND BY DEFINITION MAINTAINED UNTIL AN ESTABLISHED STAND OF GRASS CAN BE RELEASED TO THE OWNER. REFERENCE LANDSCAPE/IRRIGATION PLAN (IF PROVIDED) TO COORDINATE PLANTING ENHANCEMENTS AND LIMITS OF IRRIGATION COVERAGE.

GENERAL SITE GRADING NOTE

- AS PART OF THE BASE BID THE CONTRACTOR SHALL PROVIDE/IMPORT ALL FLEXIBLE BASE FILL AND TOPSOIL MATERIAL NECESSARY TO ACHIEVE FINAL GRADE PER PLAN.
- ALL AREAS WITHIN CONSTRUCTION LIMITS NOT COVERED WITH AN IMPERVIOUS MATERIAL SHALL BE COVERED WITH TOPSOIL. THE TOPSOIL SHALL BE IN CONFORMANCE WITH THE TOPSOIL NOTES LISTED IN THE PLAN SET AND SPECIFICATIONS FOR THIS PROJECT.
- BASE BID SHALL ALSO INCLUDE HAUL OFF OF EXCESS MATERIAL AS NECESSARY.
- ANY FILL PLACED ON-SITE SHALL BE TESTED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER AND BE IN CONFORMANCE WITH RECOMMENDATIONS LISTED IN THE SITE GEOTECHNICAL REPORT TITLED AE21-1104 AND DATED JANUARY 28, 2022 OR ANY SUPPLEMENTAL ADDENDUMS.

****NOTICE TO CONTRACTORS - UTILITIES****

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ANY EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, THE GOVERNING MUNICIPALITY, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

**** NOTICE TO CONTRACTORS - TOPOGRAPHIC SURVEY ****

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY JPH LAND SURVEYING, INC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.

Date Description No.

Revisions

LANGAN
Langan Engineering and Environmental Services, Inc.
9606 N. Mopac Expressway, Suite 110
Austin, TX 78759
T: 737.289.7800 F: 737.289.7801 www.langan.com
TBPE FIRM REG. #F-13709

Project **LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE**

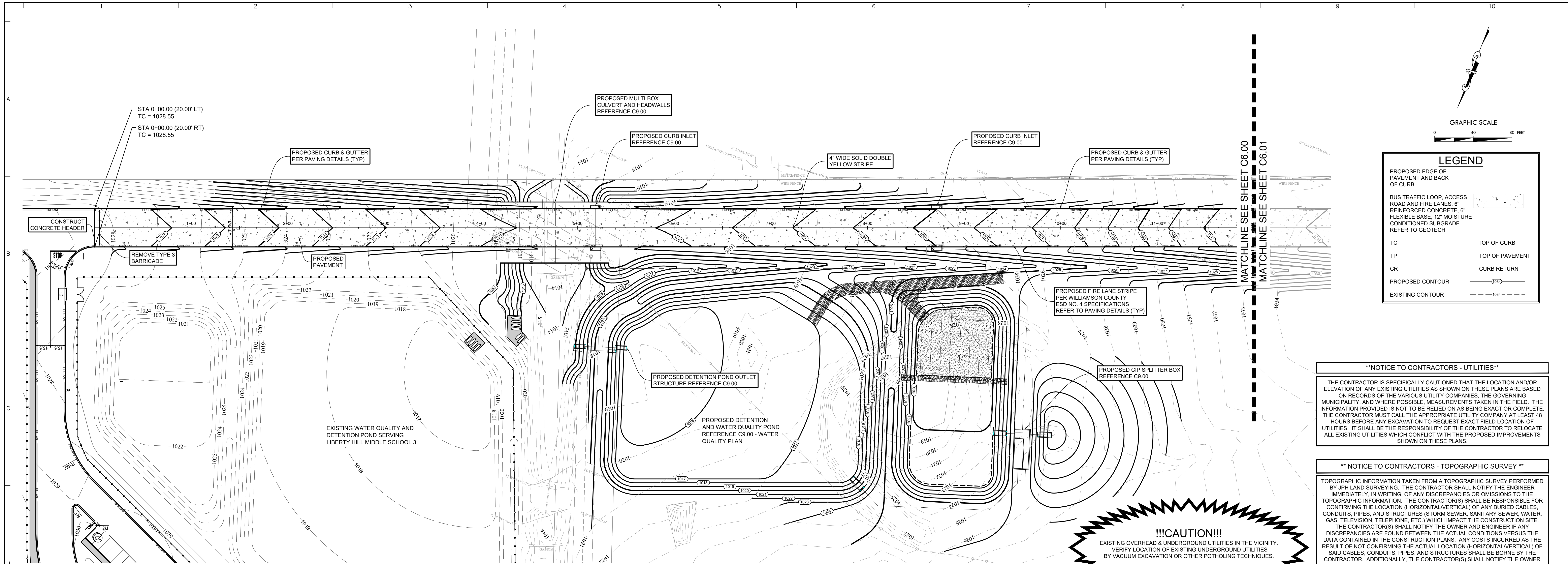
OVERALL GRADING AND EROSION CONTROL PLAN

Project No. **531013311** Drawing No. **C5.00**

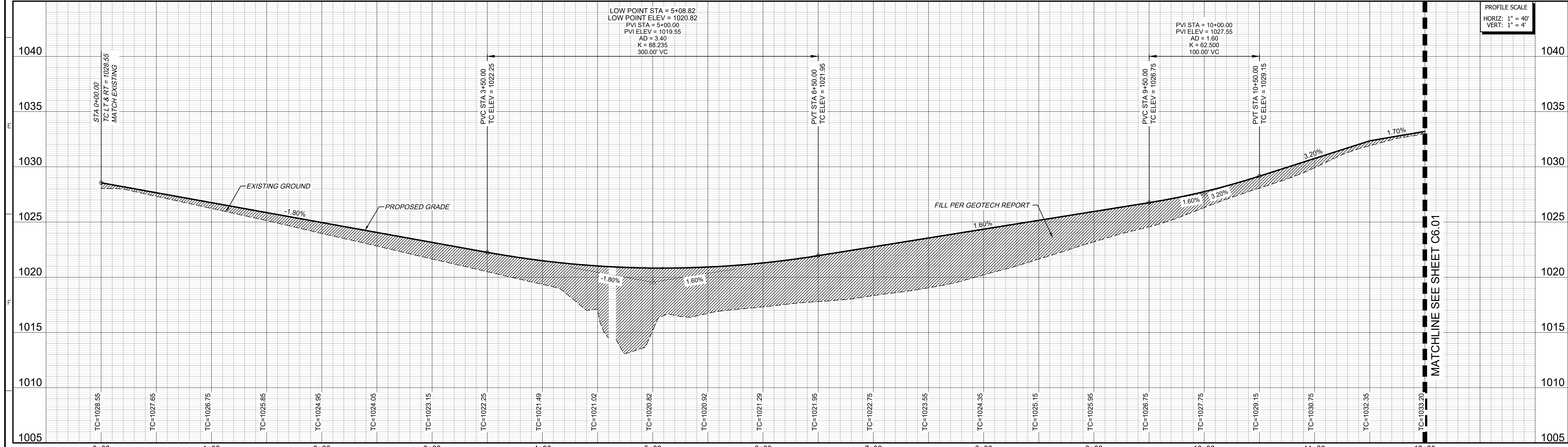
Date **FEBRUARY 2024**

Drawn By **MSH**

Checked By **MSH**



ROAD A ~ STA 0+00 TO 12+00



LEGEND

PROPOSED EDGE OF PAVEMENT AND BACK OF CURB

BUS TRAFFIC LOOP, ACCESS ROAD AND FIRE LANES, 6\"/>

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!!!CAUTION!!!

EXISTING OVERHEAD & UNDERGROUND UTILITIES IN THE VICINITY. VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES BY VACUUM EXCAVATION OR OTHER POTHOLING TECHNIQUES.

Date	Description	No.
Revisions		
TBPE Registration #: F-13709		

LANGAN

Langan Engineering and Environmental Services, Inc.

9606 N. Mopac Expressway, Suite 110
Austin, TX 78759

T: 737.289.7800 F: 737.289.7801 www.langan.com
TBPE FIRM REG. #F-13709

Project
LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE

LIBERTY HILL TEXAS

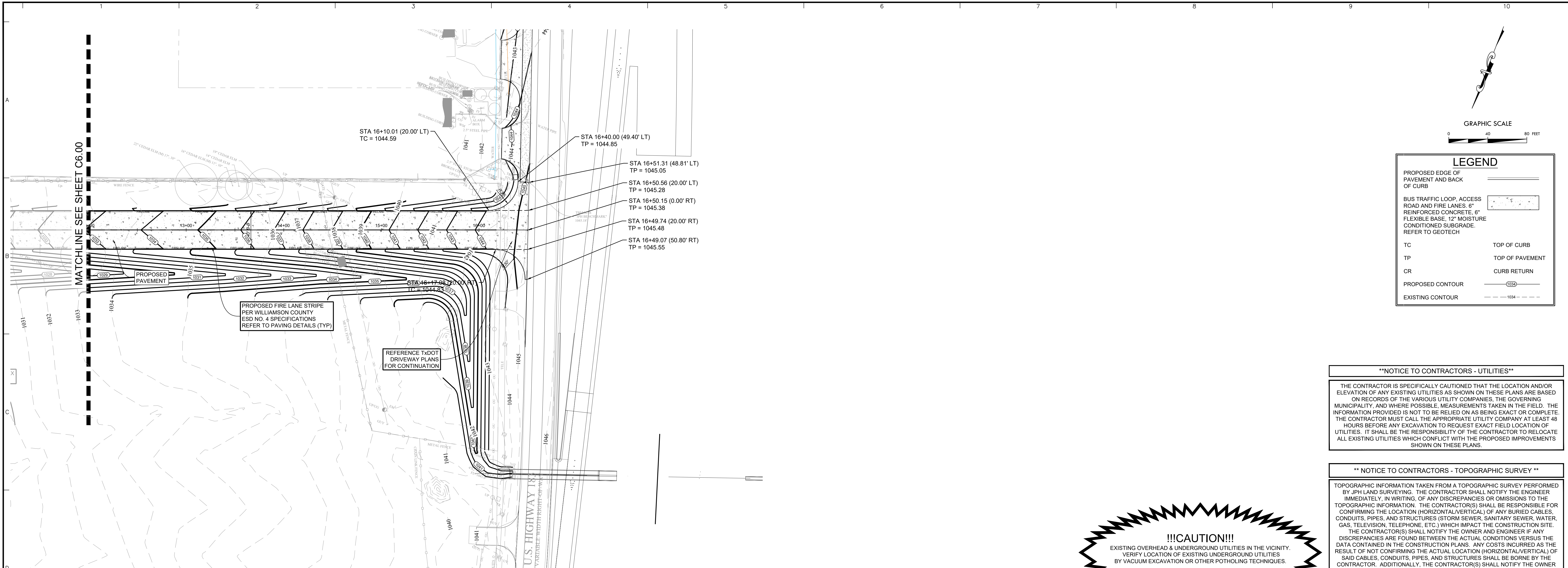
Drawing Title
183 EXTENSION PAVING PLAN-PROFILE (1 OF 2)

Project No.	Drawing No.
531013311	C6.00
Date FEBRUARY 2024	
Drawn By RWA	
Checked By MSH	

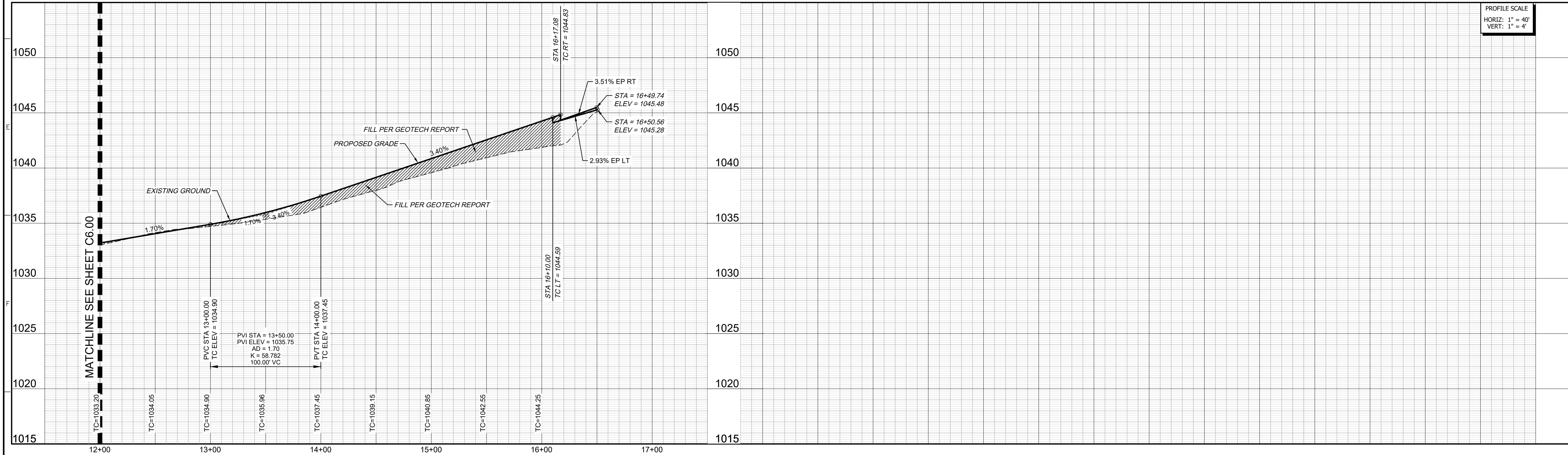
811

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ROAD A ~ STA 12+00 TO END

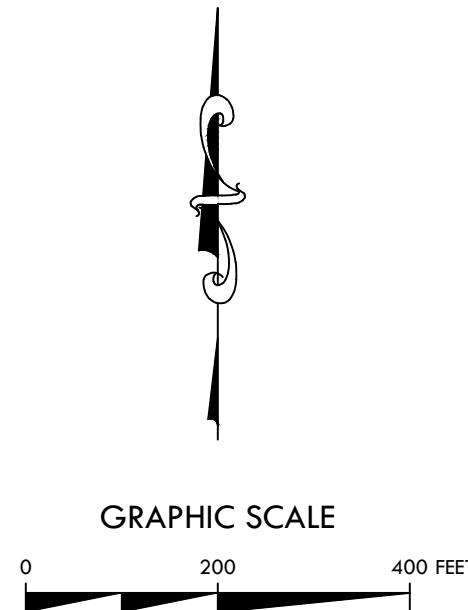
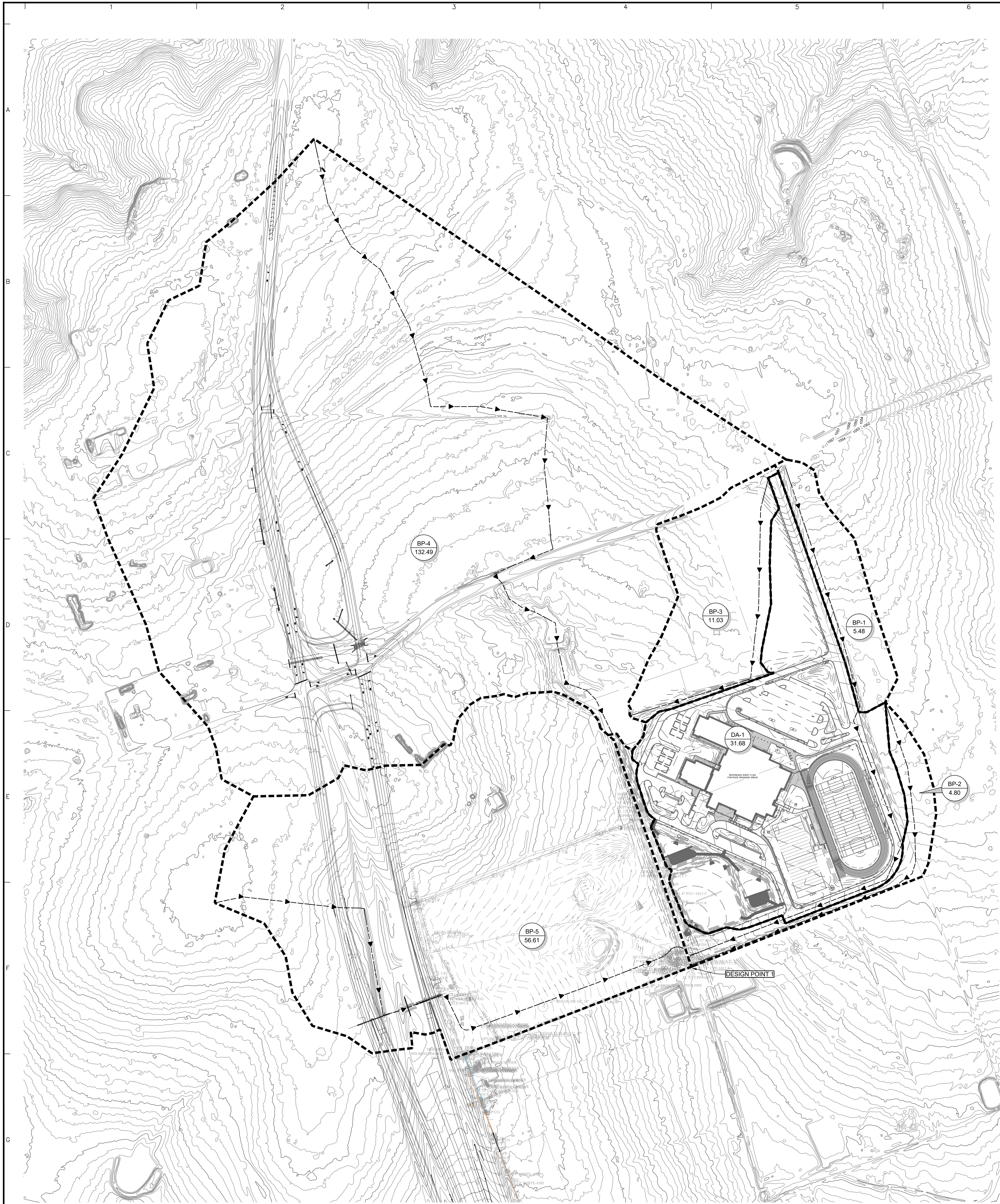


Date	Description	No.
Revisions		
TBPE Registration #: F-13709		
LANGAN Langan Engineering and Environmental Services, Inc. 9606 N. Mopac Expressway, Suite 110 Austin, TX 78759 T: 737.289.7800 F: 737.289.7801 www.langan.com TBPE FIRM REG. #F-13709		
Project LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE LIBERTY HILL TEXAS		
Drawing Title 183 EXTENSION PAVING PLAN-PROFILE (2 OF 2)		
Project No. 531013311		C6.01
Date FEBRUARY 2024		
Drawn By RWA		
Checked By MSH		



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LEGEND

DRAINAGE BASIN: BASIN NAME (DA-00), ACRES (1.00)

DRAINAGE AREA: Dashed line

PROPOSED FLOW ARROW: Arrow pointing right

TC PATH: Dashed line with arrow

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****OFF-SITE TOPOGRAPHIC INFO****

OFF-SITE TOPOGRAPHIC INFORMATION WAS ACQUIRED FROM THE WILLAMSON COUNTY GIS DEPARTMENT THROUGH THE LIDAR REQUEST SYSTEM.

TIME OF CONCENTRATION CALCULATIONS - EXISTING CONDITIONS														
Drainage Area Designation	Sheet Flow					Shallow Concentrated Flow					Channel Flow			Total Time (min)
	Manning's (n)	Length (L) (ft)	Slope (S) (ft/ft)	2-Yr. 24-hr rainfall (in)	Time (T _f) (min)	Length (L) (ft)	Slope (S) (ft/ft)	Cover Type	Velocity (ft/sec)	Time (T _f) (min)	Length (L) (ft)	Velocity (ft/sec)	Time (T _f) (min)	
BP-1	0.15	100	0.01	4.06	11.5	1066	0.017	Unpaved	2.10	8.4	1832	6.25	4.9	25
BP-2	0.15	100	0.01	4.06	11.5	1835	0.016	Unpaved	2.04	15.0	0	0.00	0.0	25
BP-3	0.15	100	0.05	4.06	6.2	839	0.023	Unpaved	2.42	5.8	587	4.00	2.4	14
BP-4	0.15	100	0.01	4.06	12.0	2458	0.011	Unpaved	1.89	24.2	1314	4.00	5.5	42
BP-5	0.15	100	0.01	4.06	11.5	602	0.0249	Unpaved	2.55	3.9	2138	4.00	8.9	24

Note: The time of concentration for each watershed was calculated using equations given in Chapter 3 of TR-55 - Urban Hydrology for Small Watersheds. Values for each overland "n" are taken from Table 3-1 of the previously reference manual.

PRE-DEVELOPMENT DRAINAGE AREA CALCULATIONS												
Drainage Area Designation	Drainage Area (ac)	Runoff Coefficient "C"				Time of Concentration (min)	2-Year Rainfall Intensity (I ₂) (in/hr)	2-Year Peak Discharge (Q ₂) (cfs)	10-Year Rainfall Intensity (I ₁₀) (in/hr)	10-Year Peak Discharge (Q ₁₀) (cfs)	25-Year Rainfall Intensity (I ₂₅) (in/hr)	25-Year Peak Discharge (Q ₂₅) (cfs)
		2- Yr	10- Yr	25- Yr	100- Yr							
-	-	-	-	-	-	-	-	-	-	-	-	-
BP-1	5.48	0.33	0.38	0.42	0.49	25	2.93	5.3	4.77	9.9	5.91	13.6
BP-2	4.80	0.33	0.38	0.42	0.49	26	2.87	4.5	4.68	8.5	5.79	11.7
BP-3	11.03	0.33	0.38	0.42	0.49	14	3.92	14.3	6.30	26.4	7.72	35.8
BP-4	132.49	0.43	0.48	0.52	0.60	42	2.15	121.1	3.54	226.4	4.42	307.0
BP-5	56.61	0.38	0.43	0.48	0.55	24	3.00	64.6	4.88	119.9	6.03	162.3
DA-1	31.68	-	-	-	-	-	-	46.8	-	113.0	-	140.1
Total	242.10	-	-	-	-	-	-	255.84	-	504.14	-	670.45

Note: Calculations based on the Rational Method: Q = C*I*A



TBPE Registration #: F-13709

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TBPE FIRM REG. #F-13709

Project
LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE

LIBERTY HILL
WILLAMSON COUNTY TEXAS

Drawing Title

EXISTING DRAINAGE AREA PLAN

Project No.

531013311

Date

FEBRUARY 2024

Drawn By

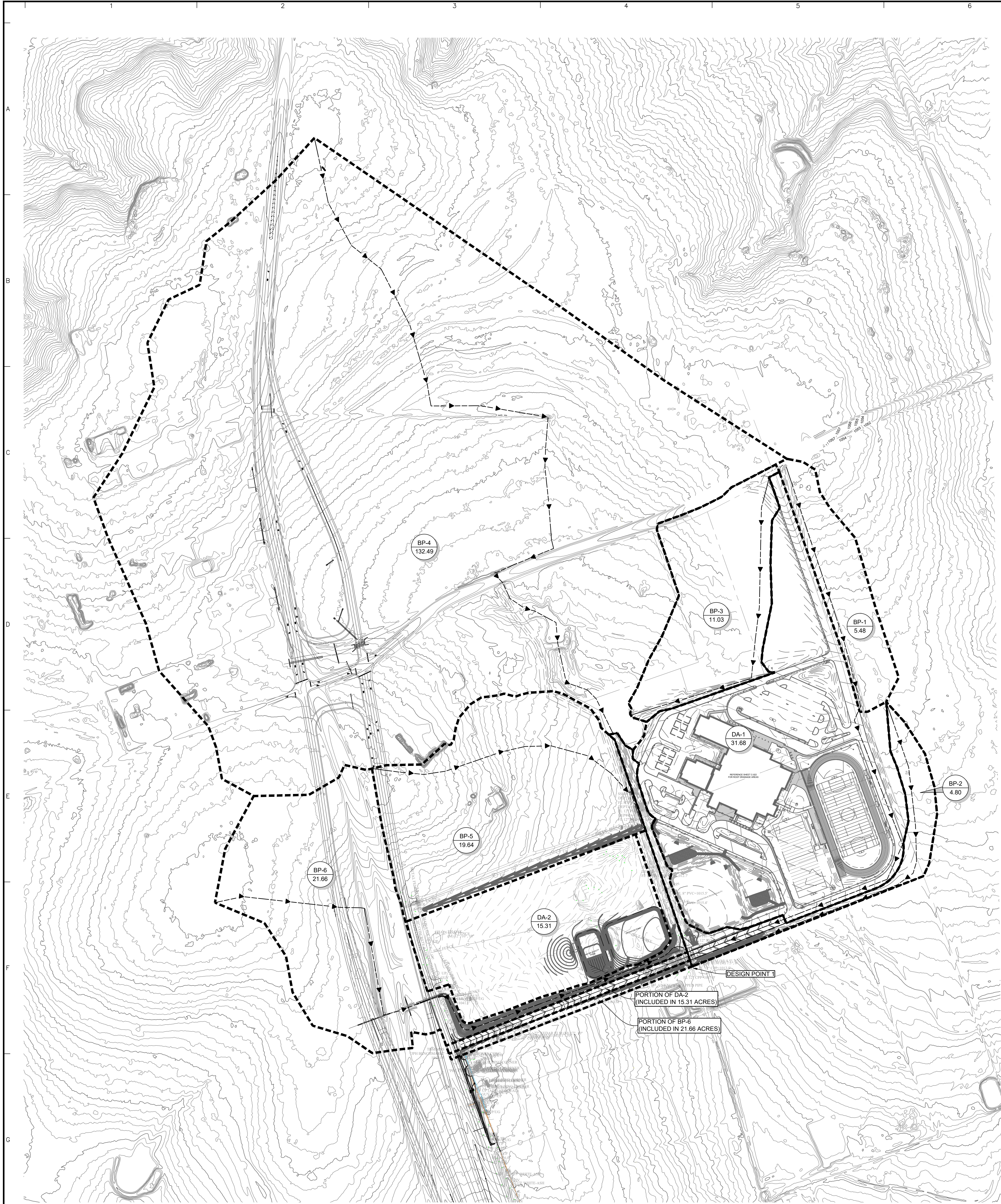
NPF

Checked By

MSH

Drawing No.

C7.00



GRAPHIC SCALE
0 200 400 FEET

LEGEND

DRAINAGE BASIN: BASIN NAME (DA-00), ACRES (1.00)

DRAINAGE AREA: Dashed line

PROPOSED FLOW ARROW: Arrow

TC PATH: Dashed line with arrow

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TIME OF CONCENTRATION CALCULATIONS														
Drainage Area Designation	Sheet Flow					Shallow Concentrated Flow					Channel Flow			Total
	Manning's (n)	Length (L)	Slope (s)	2-Yr, 24-hr rainfall	Time (T _t)	Length (L)	Slope (s)	Cover Type	Velocity	Time (T _t)	Length (L)	Velocity	Time (T _t)	Time (T _t)
		(ft)	(ft/ft)	(in)	(min)	(ft)	(ft/ft)	-	(ft/sec)	(min)	(ft)	(ft/sec)	(min)	(min)
BP-1	0.15	100	0.01	4.06	11.5	1066	0.017	Unpaved	2.10	8.4	1832	6.25	4.9	25
BP-2	0.15	100	0.01	4.06	11.5	1835	0.016	Unpaved	2.04	15.0	0	0.00	0.0	26
BP-3	0.15	100	0.05	4.06	6.2	639	0.023	Unpaved	2.42	5.8	587	4.00	2.4	14
BP-4	0.15	100	0.01	4.06	12.0	2458	0.011	Unpaved	1.89	24.2	1314	4.00	5.5	42
BP-5	0.15	100	0.01	4.06	11.5	1187	0.0253	Unpaved	2.57	7.7	172	4.00	0.7	20
BP-6	0.15	100	0.01	4.06	11.5	602	0.0249	Unpaved	2.55	3.9	2138	4.00	8.9	24

Note: The time of concentration for each watershed was calculated using equations given in Chapter 3 of TR-55 - Urban Hydrology for Small Watersheds. Values for each overland "n" are taken from Table 3-1 of the previously reference manual.

POST-DEVELOPMENT DRAINAGE AREA CALCULATIONS															
Drainage Area Designation	Drainage Area	Runoff Coefficient "C"				Time of Concentration		2-Year Rainfall Intensity (I ₂)	2-Year Peak Discharge (Q ₂)	10-Year Rainfall Intensity (I ₁₀)	10-Year Peak Discharge (Q ₁₀)	25-Year Rainfall Intensity (I ₂₅)	25-Year Peak Discharge (Q ₂₅)	100-Year Rainfall Intensity (I ₁₀₀)	100-Year Peak Discharge (Q ₁₀₀)
-	(ac)	2-Yr	10-Yr	25-Yr	100-Yr	(min)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)	(cfs)	(in/hr)
BP-1	5.48	0.33	0.38	0.42	0.49	25	2.93	5.3	4.77	9.9	5.91	13.6	7.79	20.9	
BP-2	4.80	0.33	0.38	0.42	0.49	26	2.87	4.5	4.68	8.5	5.79	11.7	7.64	18.0	
BP-3	11.03	0.33	0.38	0.42	0.49	14	3.92	14.3	6.30	26.4	7.72	35.8	10.01	54.1	
BP-4	132.49	0.43	0.48	0.52	0.60	42	2.15	121.1	3.54	226.4	4.42	307.0	5.90	468.0	
BP-5	19.64	0.38	0.43	0.48	0.55	20	3.30	24.7	5.35	45.6	6.60	61.6	8.65	93.0	
BP-6	21.66	0.39	0.44	0.48	0.56	24	3.00	25.2	4.88	46.8	6.03	63.3	7.94	95.9	
DA-1	31.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DA-2	15.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	242.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
								234.17		484.92		891.95		987.50	

Note: Calculations based on the Rational Method: Q = C*I*A

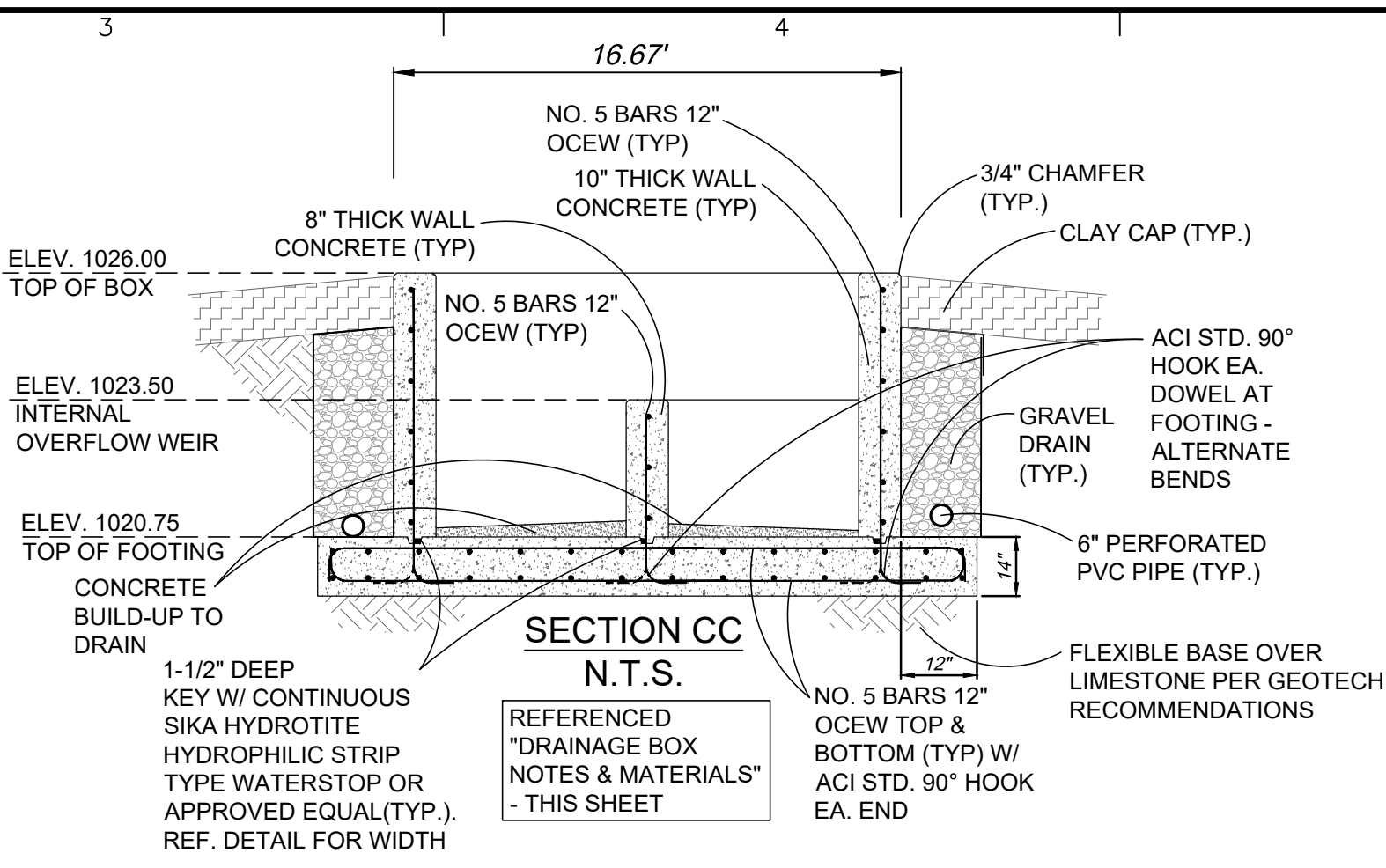
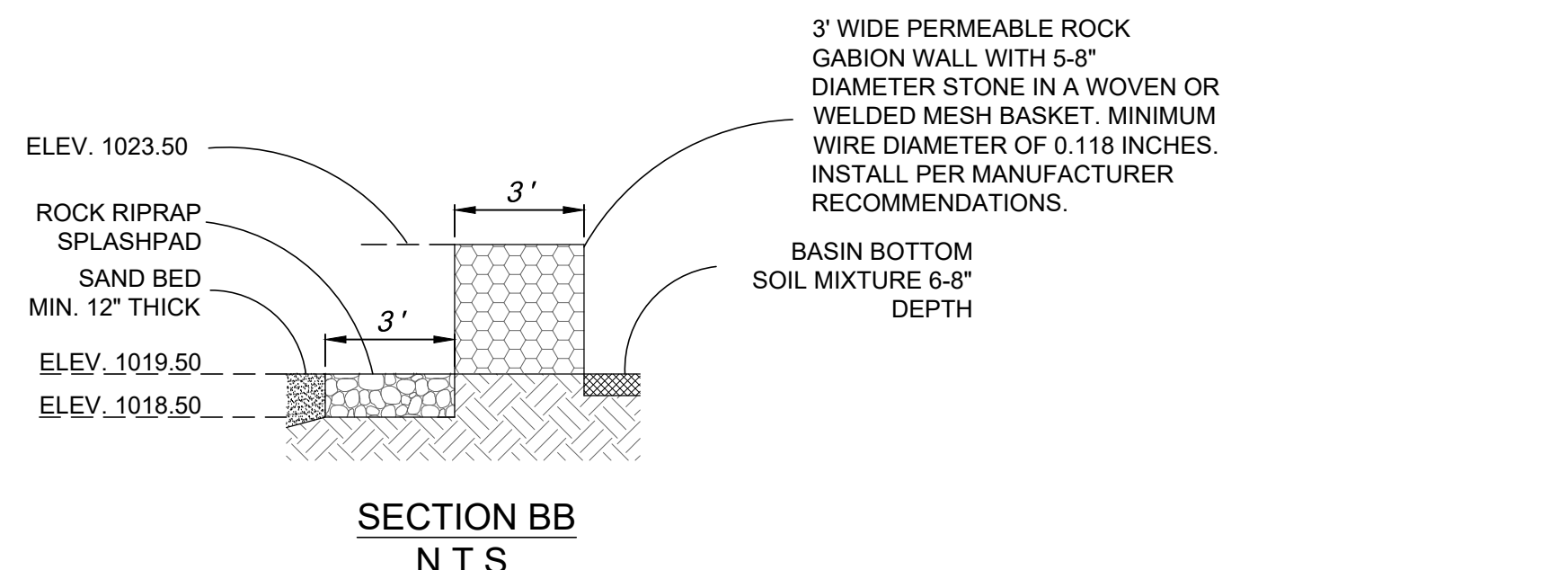
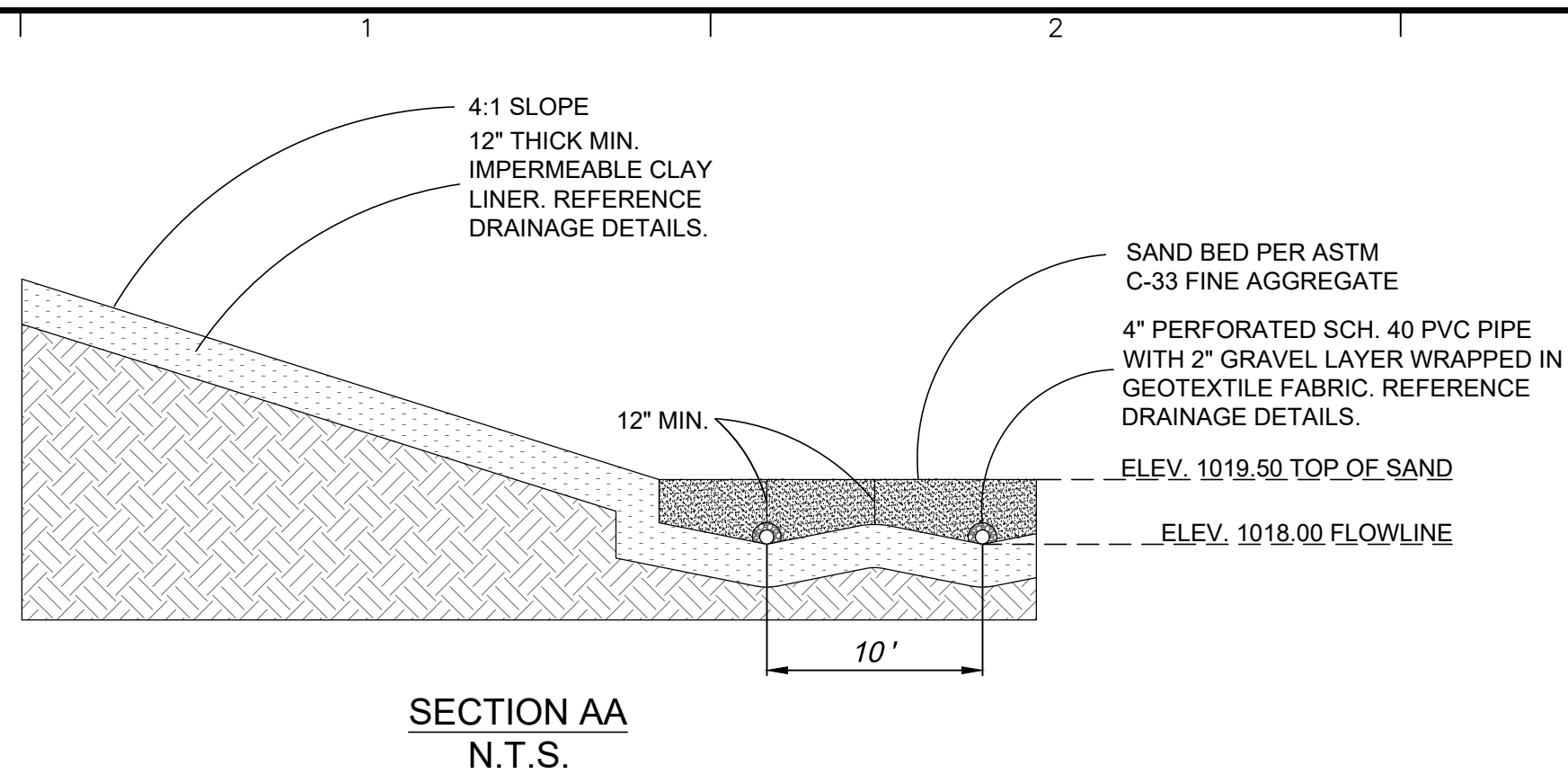
Date	Description	No.
Revisions		
TBPE Registration #: F-13709		
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Project
LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE

LIBERTY HILL
WILLAMSON COUNTY TEXAS

Drawing Title
PROPOSED DRAINAGE AREA PLAN

Project No. 531013311	Drawing No. C8.00
Date FEBRUARY 2024	
Drawn By NPF	
Checked By MSH	



****CZP CALCULATIONS****

183 EXTENSION POND
PROPOSED DRAINAGE AREA = 15.31 AC
PROPOSED ON-SITE IMPERVIOUS COVER = 1.70 AC
TURN LANE DEMOLITION = 0.09 AC
PROPOSED TURN LANE IMPERVIOUS COVER = 0.18 AC
TOTAL NET INCREASE: 1.79 AC

CURRENT PROPOSED REQUIRED VOLUME = 9,684 CF
CURRENT PROPOSED MINIMUM FILTER BASIN AREA = 807 SF

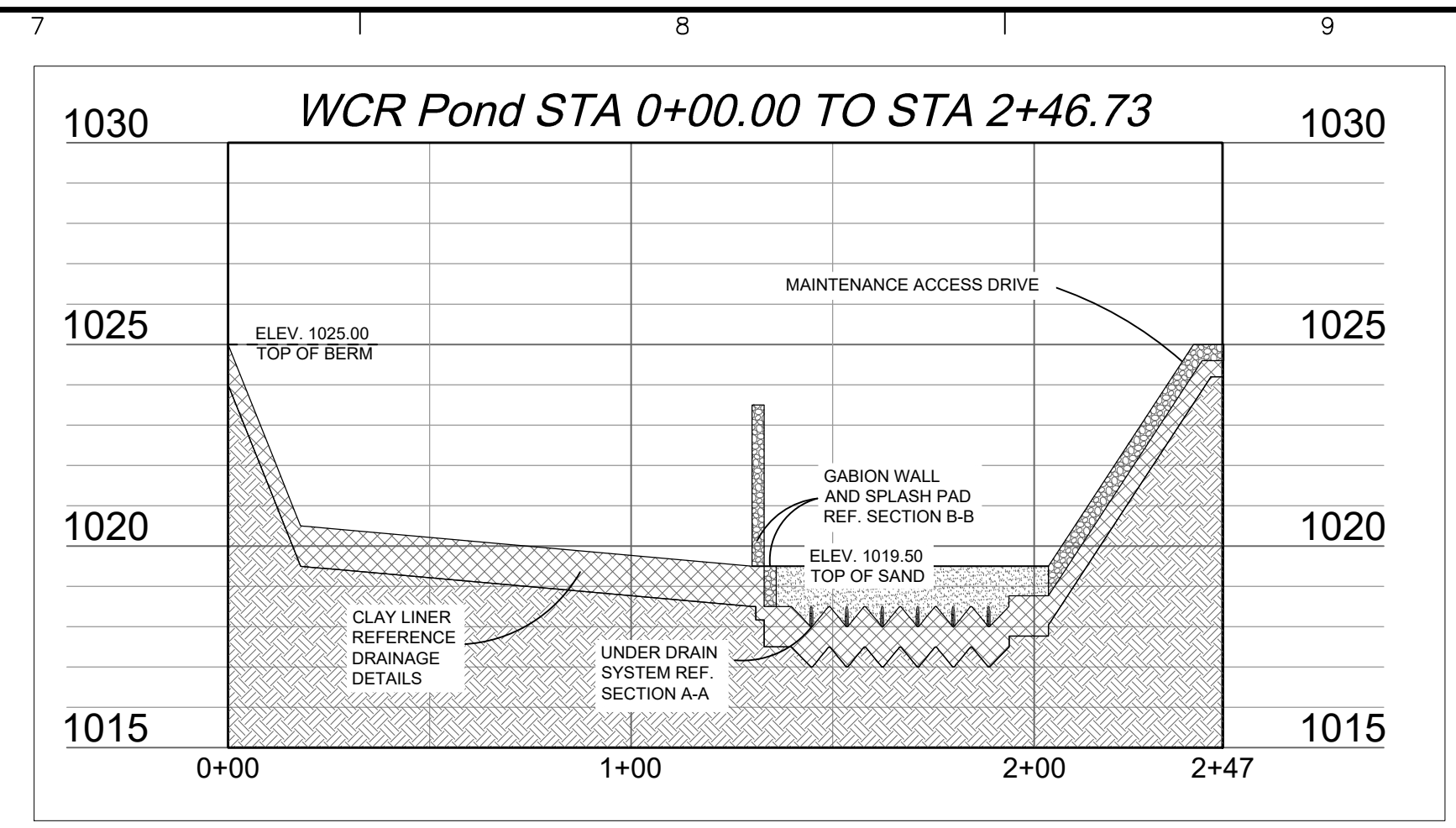
*FUTURE DRAINAGE AREA = 15.31 AC
*FUTURE IMPERVIOUS COVER (80%) = 12.25 AC
*FUTURE REQUIRED VOLUME = 62,424 CF
*FUTURE MINIMUM FILTER BASIN AREA = 5,202 SF

POND VOLUME PROVIDED = 69,006 CF
FILTER BASIN AREA PROVIDED = 5,252.5 SQ FT

*ALL FUTURE CONDITIONS ARE APPROXIMATE IN NATURE AND ARE NOT BASED ON ANY COMPLETED DESIGN. ANY FUTURE ADDITIONS TO THE PROPERTY WITHIN THE DRAINAGE BASIN OF THE DETENTION AND WATER QUALITY PONDS WILL BE SUBJECT TO REVIEW CRITERIA AT THE TIME OF THAT FUTURE SUBMITTAL.

- DRAINAGE BOX NOTES & MATERIALS:**
- CONCRETE-**
- CONCRETE WORK SHALL CONFORM TO ACI 301 AND ACI 350, LATEST EDITIONS.
 - f_c = 4,000 PSI COMPRESSIVE STRENGTH @ 28 DAYS
 - WATER CEMENT RATIO (w/c) OF 0.45
 - FLY ASH, IF USED, SHALL BE TYPE F CONFORMING TO ASTM C 618 AND SHALL NOT EXCEED 20% OF CEMENTITIOUS MATERIAL BY WEIGHT.
 - ENTRAINED AIR SHALL BE $6\% \pm 1.5\%$
- REBAR & ACCESSORIES -**
- ASTM D15, GRADE 60
 - REBAR WORK SHALL CONFORM TO ACI 315, LATEST EDITION, ACCESSORIES TO BE EXPOSED TO EARTH, WEATHER, WATER, OR HIGH HUMIDITY SHALL BE FABRICATED OF STAINLESS STEEL OR PLASTIC. PROVIDE BOLSTERS AT WALLS, AND PROVIDE STANDEES AT SLABS WITH TWO LAYERS OF REINFORCING. FOR SLAB-ON-GRADE REINFORCING, PROVIDE CHAIRS MANUFACTURED FROM STAINLESS STEEL, PLASTIC OR PRECAST CONCRETE BLOCKS OF EQUAL OR GREATER COMPRESSIVE STRENGTH AS THE CONCRETE BEING PLACED.
 - ALL BARS SHALL BE CONTINUOUS UNLESS NOTED OR SHOWN OTHERWISE. LAP SPLICES OF CONTINUOUS BARS SHALL BE 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED.
- DRAINAGE -**
- 2'-0" WIDE GRAVEL DRAIN TO 18" + BELOW FINISHED SURFACE WITH 6" DIAMETER PERFORATED PVC PIPE. CONNECT PVC TO DRAIN TO 48" LINE GOING TO DETENTION POND. FOR GRAVEL DRAIN, USE WASHED-AGGREGATE GRAVEL WRAPPED IN GEOTEXTILE FABRIC (NON-WOVEN POLYESTER - OVERLAP FABRIC MIN. 12"). MAXIMUM AGGREGATE SIZE 1-1/2" (NOMINAL 1").
 - MINIMUM 1'-0" CLAY CAP OVER GRAVEL DRAIN.

- GENERAL SITE NOTES:**
- CONTRACTOR TO ENSURE EDWARDS AQUIFER (EA) PERMITTING IS IN PLACE AND REVIEWED BEFORE BEGINNING ANY SITE DISTURBANCE.
 - ALL TEMPORARY EROSION CONTROLS SHALL BE INSTALLED PER EA REQUIREMENTS PRIOR TO ANY SITE DISTURBANCE.
 - CONTRACTOR SHALL REVIEW AND REFERENCE SITE GEOTECHNICAL REPORT PREPARED BY ALLIANCE ENGINEERING GROUP AND TITLED "SUBSURFACE EXPLORATION AND GEOTECHNICAL EVALUATION FOR LIBERTY HILL MIDDLE SCHOOL, #3 LIBERTY HILL, TEXAS" OR ANY ADDITIONS OR ADDENDUMS TO THE ORIGINAL REPORT.
 - CONTRACTOR SHALL PROPERLY DISPOSE OF ANY DEMOLISHED SITE FEATURES OR UTILITIES OFFSITE. BURYING DEMOLISHED ELEMENTS WILL NOT BE ALLOWED.
 - CONTRACTOR SHALL WORK WITH PROJECT GEOTECHNICAL ENGINEER AND PROJECT CONSTRUCTION MATERIALS TESTING LAB TO IDENTIFY ONSITE CLAY SOIL TO USE IN CREATING THE PERMANENT CLAY LINER FOR THE POND.
 - ONSITE TOPSOIL IN THE AREA OF DISTURBANCE SHALL BE STRIPPED AND STOCKPILED FOR USE IN REVEGETATION OF DISTURBED AREAS. NO ADDITIONAL PAY ITEM WILL BE ALLOWED FOR TOPSOIL IMPORT. CONTRACTOR TO USE ONSITE SOILS SUITABLE FOR HEALTHY REVEGETATION OF PROJECT.
 - ALL ONSITE FILL AREAS SHALL BE STRIPPED, PROCESSED, AND COMPACTED UNDER THE DIRECTION OF THE PROJECT GEOTECH AND PROJECT CMT LAB. THE DISTRICT WILL USE UNKNOWN PORTIONS OF THE FILL AREAS AS FUTURE BUILDING EXPANSIONS. THEREFORE, CONTRACTOR WILL NEED TO PLACE ALL FILL IN A CONTROLLED MANNER AS DIRECTED BY THE PROJECT GEOTECH AND THE PROJECT CMT LAB.
 - CONTRACTOR TO WORK CLOSELY WITH THE PROJECT GEOTECHNICAL ENGINEERING/MATERIAL TESTING FIRM TO ENSURE MATERIAL USED TO CONSTRUCT ANY FEATURE USED TO IMPOUND WATER WILL REMAIN WATER TIGHT AND RESISTANT TO SOIL PIPING THROUGH THE FEATURE'S LIFE SPAN.
 - ALL CONDUITS ENTERING THE WATER IMPOUNDMENT STRUCTURE (WATER QUALITY POND) SHALL INCLUDE CLAY DAMS TO ENSURE THERE IS NO SOIL PIPING TO OR FROM THE CONDUIT EMBEDMENT MATERIAL.



Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

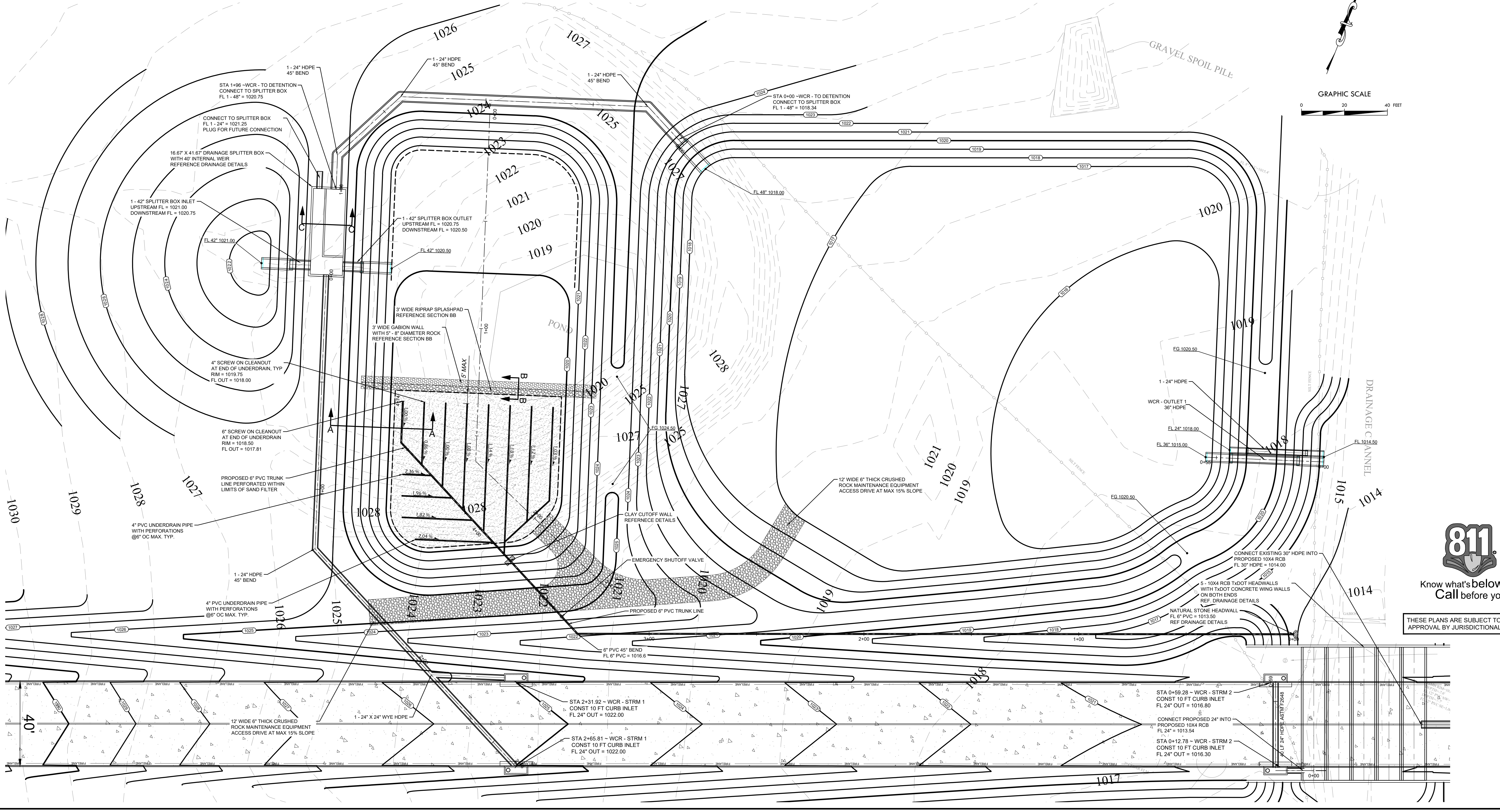
Pond No. 1 - West Connector WQ Pond

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begning Elevation = 1019.50 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1019.50	5,253	0	0
0.50	1020.00	14,567	4,761	4,761
1.50	1021.00	16,668	15,604	20,365
2.50	1022.00	18,870	17,756	38,121
3.50	1023.00	21,173	20,008	58,129
4.00	1023.50	22,345	10,877	69,006



811
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Date	Description	No.
Revisions		
TBPE Registration #: F-13709		
LANGAN Langan Engineering and Environmental Services, Inc. 9606 N. Mopac Expressway, Suite 110 Austin, TX 78759 T: 737.289.7800 F: 737.289.7801 www.langan.com TBPE FIRM REG. #F-13709		
Project LIBERTY HILL MIDDLE SCHOOL #3 WEST CONNECTOR DRIVE LIBERTY HILL TEXAS		
Drawing Title 183 EXTENSION WATER QUALITY PLAN		
Project No. 531013311	Drawing Sd./ch. C9.00	
Date February 2024		
Drawn By NPF		
Checked By MSH		

WEST CONNECTOR ROAD WQ POND - PROPOSED THIS PHASE

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name:Liberty Hill MS #3 Road Extension
Date Prepared: 2/8/2024

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: LM =27.2(AN x P)

where:

LM_{TOTAL PROJECT} =Required TSS removal resulting from the proposed development = 80% of increased load
AN =Net increase in impervious area for the project
P =Average annual precipitation, inches

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

County = Williamson

Total project area included in plan " = 15.31 acres

Predevelopment impervious area within the limits of the plan " = 0.00 acres

Total post-development impervious area within the limits of the plan" = 1.79 acres

Total post-development impervious cover fraction " = 0.12

P = 32 inches

LM_{TOTAL PROJECT} = 1558 lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area = 15.31 acres

Predevelopment impervious area within drainage basin/outfall area = 0.00 acres

Post-development impervious area within drainage basin/outfall area = 1.79 acres

Post-development impervious fraction within drainage basin/outfall area = 0.12

LM_{HIS BASIN} = 1558 lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =Sand Filter
Removal efficiency = 89 percent

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

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

RG-348 Page 3-33 Equation 3.7: LR =(BMP efficiency) x P x (AI x 34.6 + AP x 0.54)

where:

AC =Total On-Site drainage area in the BMP catchment area
AI =Impervious area proposed in the BMP catchment area
AP =Pervious area remaining in the BMP catchment area
LR =TSS Load removed from this catchment area by the proposed BMP

AC = 15.31 acres
AI = 1.79 acres
AP = 13.52 acres
LR = 1972 lbs

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

Desired LM_{HIS BASIN} = 1558 lbs.
F = 0.79

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

Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth = 1.04 inches
Post Development Runoff Coefficient = 0.14
On-site Water Quality Volume = 8070 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 = 1614
Total Capture Volume (required water quality volume(s) x 1.20) = 9684 cubic feet

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

7. Retention/Irrigation System Designed as Required in RG-348 Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

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

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

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

9. Filter area for Sand Filters Designed as Required in RG-348 Pages 3-58 to 3-63

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = 9684 cubic feet
Minimum filter basin area = 807 square feet
Maximum sedimentation basin area = 3228 square feetFor minimum water depth of 2 feet
Minimum sedimentation basin area = 202 square feetFor maximum water depth of 8 feet

WEST CONNECTOR ROAD WQ POND - ULTIMATE BUILD OUT

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name:Liberty Hill MS #3 Road Extension
Date Prepared: 2/8/2024

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: LM =27.2(AN x P)

where:

LM_{TOTAL PROJECT} =Required TSS removal resulting from the proposed development = 80% of increased load
AN =Net increase in impervious area for the project
P =Average annual precipitation, inches

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

County = Williamson

Total project area included in plan " = 15.31 acres

Predevelopment impervious area within the limits of the plan " = 0.00 acres

Total post-development impervious area within the limits of the plan" = 12.25 acres

Total post-development impervious cover fraction " = 0.80

P = 32 inches

LM_{TOTAL PROJECT} = 10662 lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area = 15.31 acres

Predevelopment impervious area within drainage basin/outfall area = 0.00 acres

Post-development impervious area within drainage basin/outfall area = 12.25 acres

Post-development impervious fraction within drainage basin/outfall area = 0.80

LM_{HIS BASIN} = 10662 lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =Sand Filter
Removal efficiency = 89 percent

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

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

RG-348 Page 3-33 Equation 3.7: LR =(BMP efficiency) x P x (AI x 34.6 + AP x 0.54)

where:

AC =Total On-Site drainage area in the BMP catchment area
AI =Impervious area proposed in the BMP catchment area
AP =Pervious area remaining in the BMP catchment area
LR =TSS Load removed from this catchment area by the proposed BMP

AC = 15.31 acres
AI = 12.25 acres
AP = 3.06 acres
LR = 12118 lbs

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

Desired LM_{HIS BASIN} = 10662 lbs.
F = 0.88

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

Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth = 1.50 inches
Post Development Runoff Coefficient = 0.62
On-site Water Quality Volume = 52020 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 = 10404
Total Capture Volume (required water quality volume(s) x 1.20) = 62424 cubic feet

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

7. Retention/Irrigation System Designed as Required in RG-348 Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

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

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

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

9. Filter area for Sand Filters Designed as Required in RG-348 Pages 3-58 to 3-63

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = 62424 cubic feet
Minimum filter basin area = 5202 square feet
Maximum sedimentation basin area = 20808 square feetFor minimum water depth of 2 feet
Minimum sedimentation basin area = 1301 square feetFor maximum water depth of 8 feet

CZP CALCULATIONS

183 EXTENSION POND:
PROPOSED DRAINAGE AREA = 15.31 AC
PROPOSED ON-SITE IMPERVIOUS COVER = 1.79 AC
TURN LANE DEMOLITION = 0.09 AC
PROPOSED TURN LANE IMPERVIOUS COVER = 0.18 AC
TOTAL NET INCREASE: 1.79 AC

CURRENT PROPOSED REQUIRED VOLUME = 9,684 CF
CURRENT PROPOSED MINIMUM FILTER BASIN AREA = 807 SF

*FUTURE DRAINAGE AREA = 15.31 AC
*FUTURE IMPERVIOUS COVER (80%) = 12.25 AC
*FUTURE REQUIRED VOLUME = 62,424 CF
*FUTURE MINIMUM FILTER BASIN AREA = 5,202 SF

POND VOLUME PROVIDED = 69,006 CF
FILTER BASIN AREA PROVIDED = 5,252.5 SQ FT

*ALL FUTURE CONDITIONS ARE APPROXIMATE IN NATURE AND ARE NOT BASED ON ANY COMPLETED DESIGN. ANY FUTURE ADDITIONS TO THE PROPERTY WITHIN THE DRAINAGE BASIN OF THE DETENTION AND WATER QUALITY PONDS WILL BE SUBJECT TO REVIEW CRITERIA AT THE TIME OF THAT FUTURE SUBMITTAL.

Date Description No.

Revisions



TBPE Registration #: F-13709

LANGAN

Langan Engineering and
Environmental Services, Inc.

9606 N. Mopac Expressway, Suite 110
Austin, TX 78759

T: 737.289.7800 F: 737.289.7801 www.langan.com
TBPE FIRM REG. #F-13709

Project

**LIBERTY HILL MIDDLE
SCHOOL #3 WEST
CONNECTOR DRIVE**

LIBERTY HILL

WILLIAMSON COUNTY TEXAS

Drawing Title

**183 EXTENSION
WATER QUALITY
CALCULATIONS**

Project No.

531013311

Date

FEBRUARY 2024

Drawn By

NPF

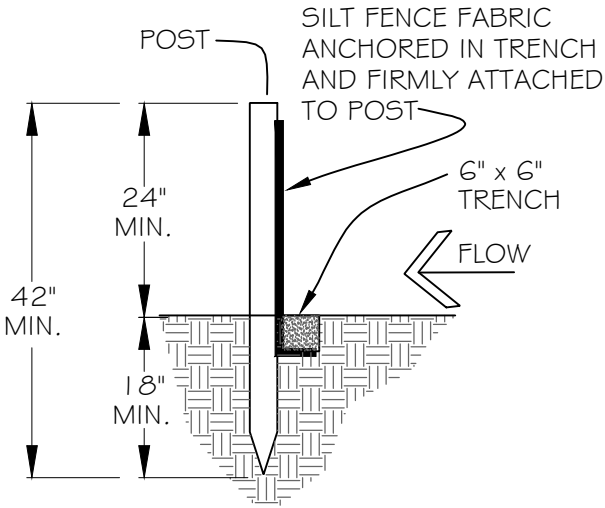
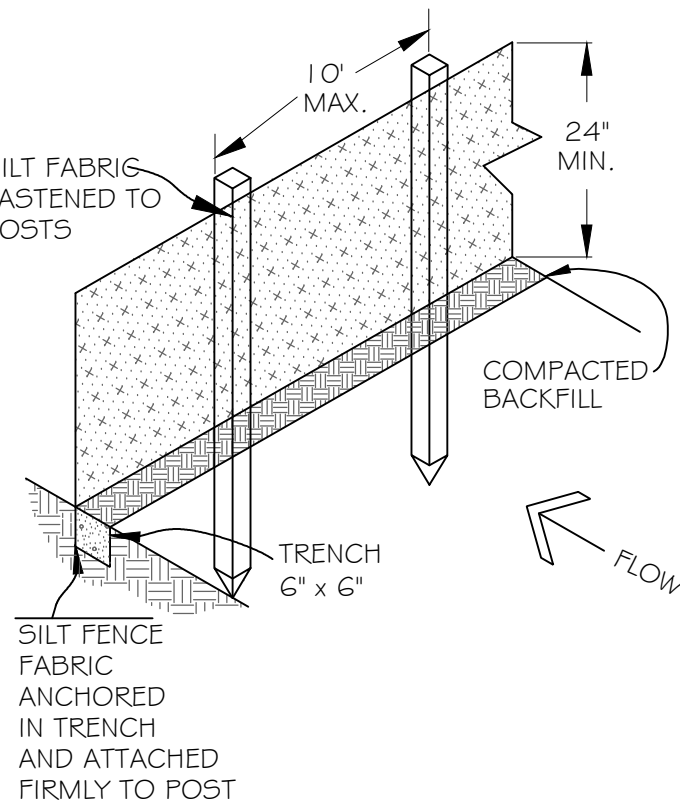
Checked By

MSH

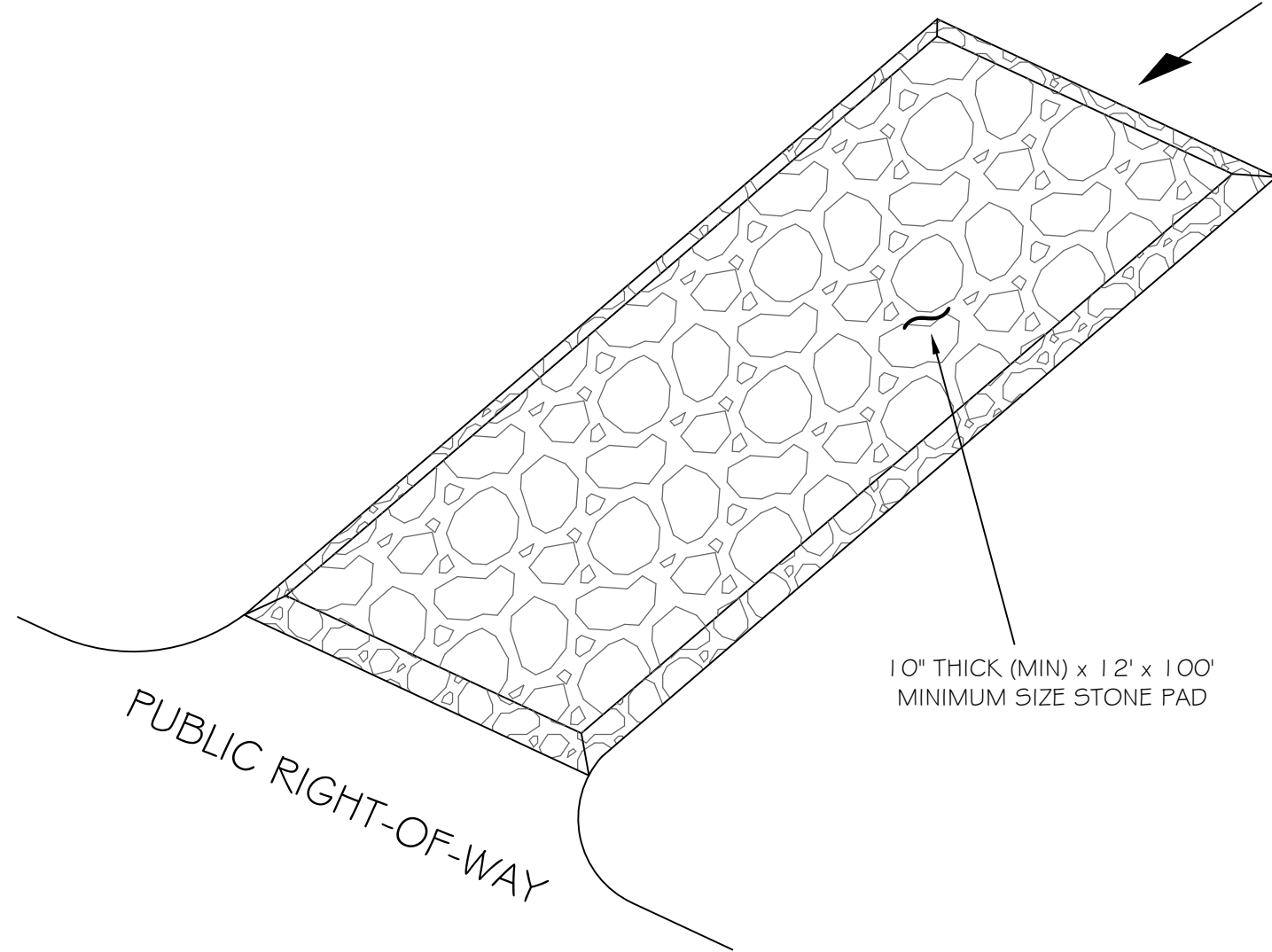
Drawing No.

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A
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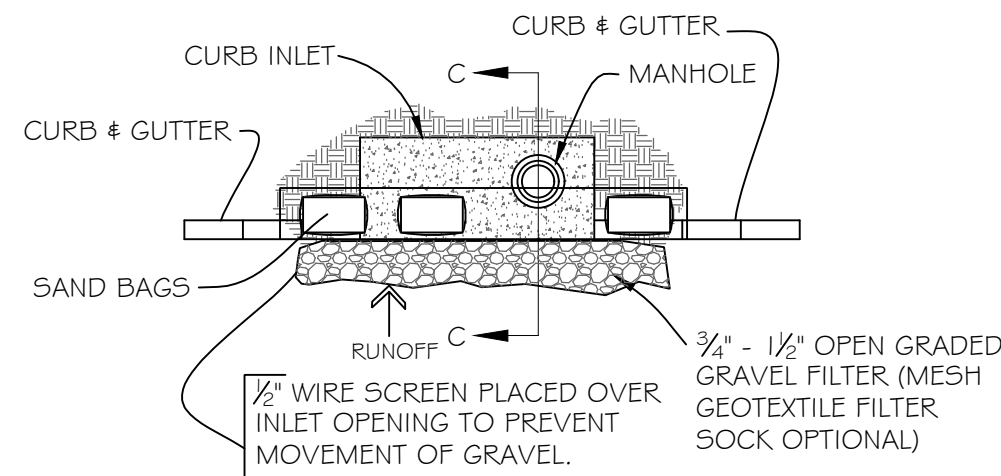


SF

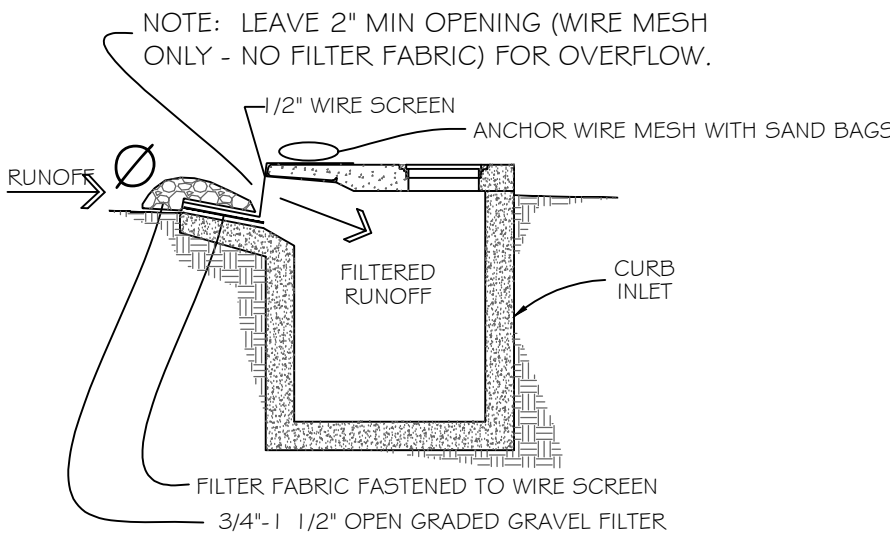


CE

SIZE OF ROCK (SS)	% SMALLER BY WEIGHT
200	100
50	35-65
3	0



PLAN VIEW



CROSS SECTION C-C

SEDIMENT REMOVAL SHALL BE PERFORMED CONTINUOUSLY FOR PROPER FUNCTION.

IP

CURB INLET PROTECTION

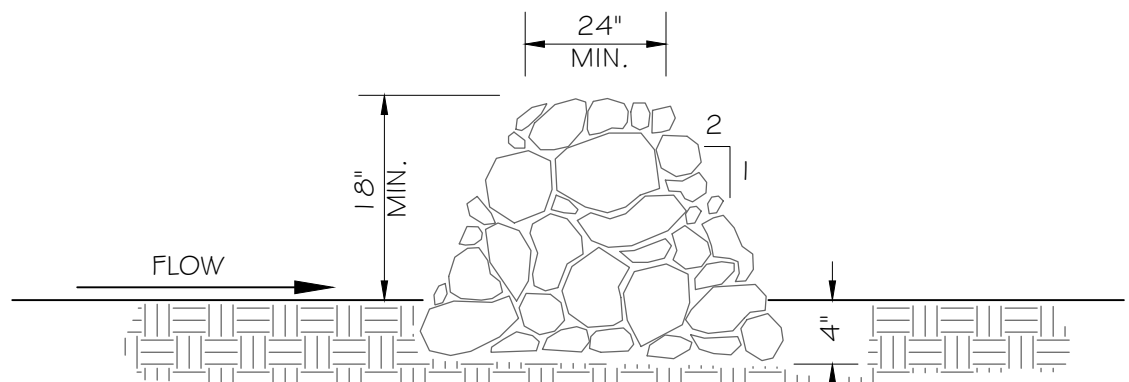
N.T.S.

NOTES:

- THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE DRESSING WITH ADDITIONAL STONE AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WASHING SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT CONTROLLING STRUCTURE. USE SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS TO PREVENT SEDIMENT FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

TEMPORARY CONSTRUCTION EXIT POINT

N.T.S.



SECTION

FLOW

ISOMETRIC

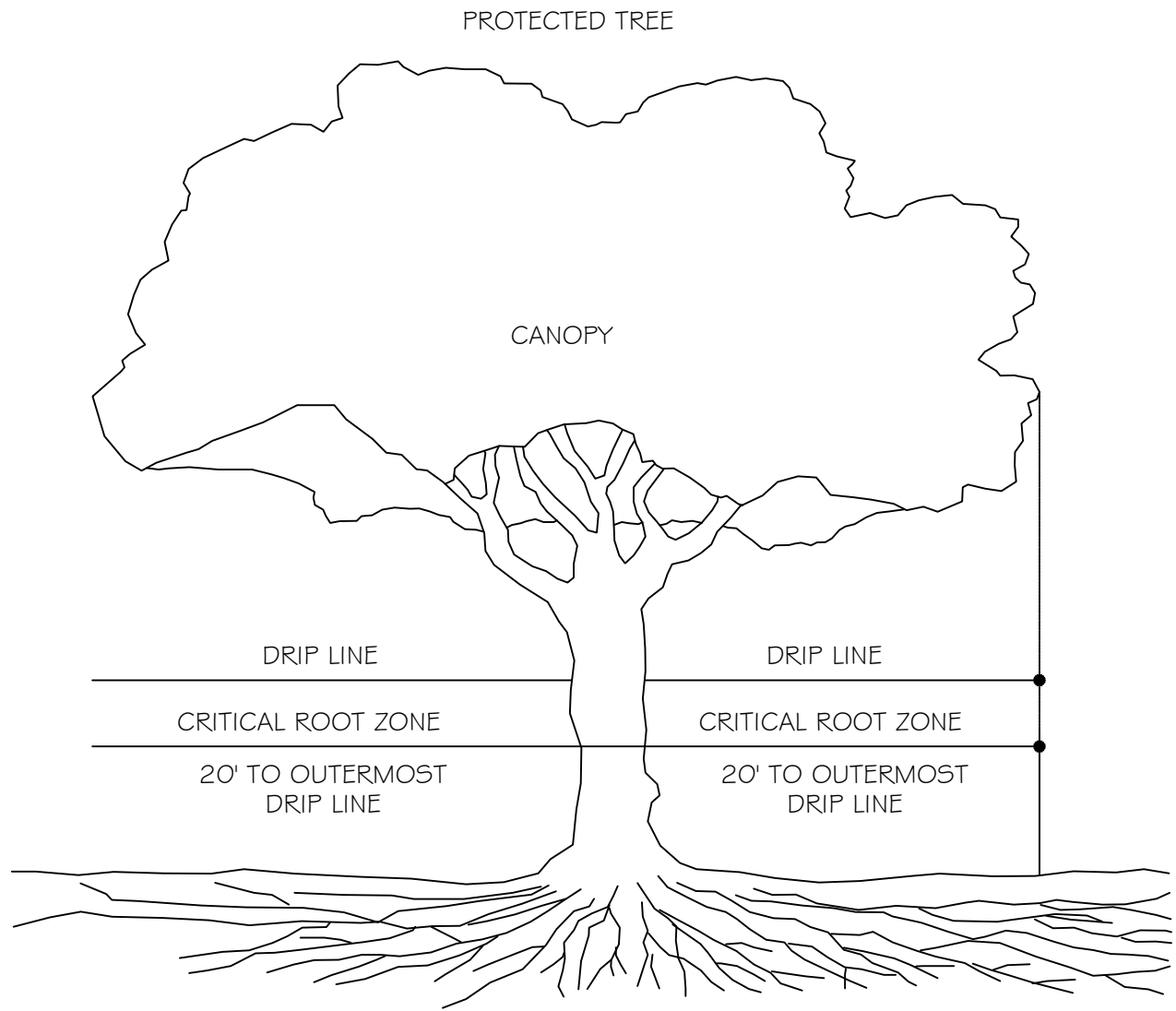
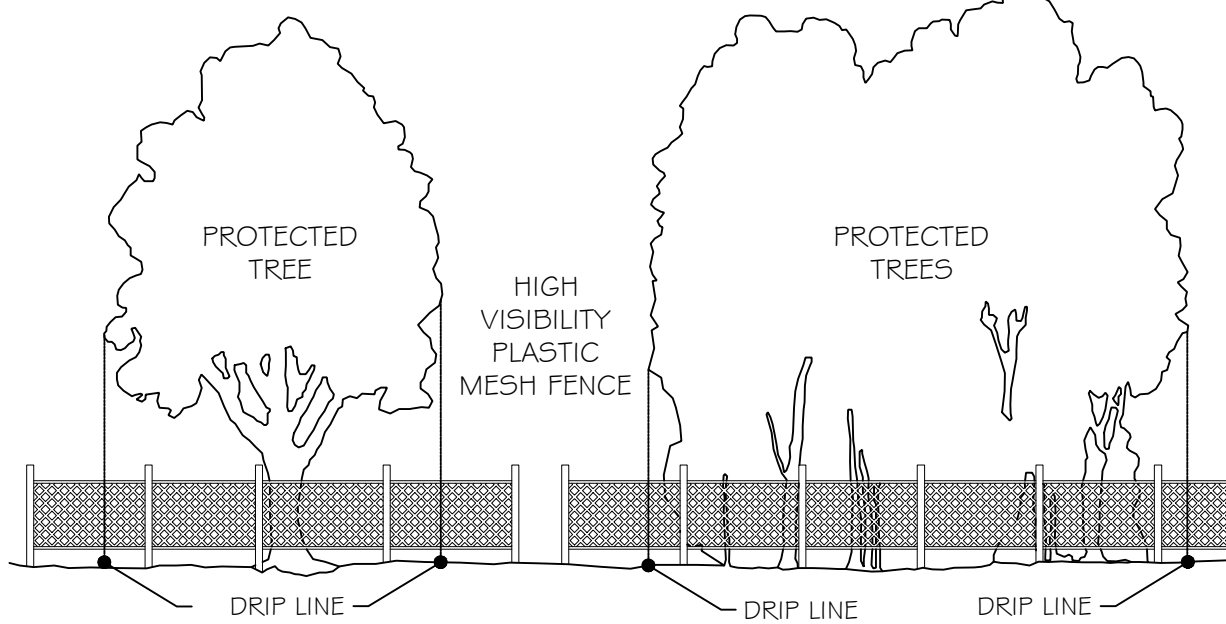
RCD

NOTES:

- USE ONLY OPEN-GRADED ROCK, WITH MOST OF THE FINES REMOVED.
- STONE SHALL BE CRUSHED, MIN. 3" DIAMETER, MAX. 1 CU. FT. IN VOLUME.
- THE ROCK BERM SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF 4 INCHES.
- INSPECT BERM AFTER EACH RAIN. REPLACE STONE WHEN THE STRUCTURE FAILS TO SERVE ITS PURPOSE DUE TO SILT ACCUMULATION, WASHOUT OR DAMAGE.
- REMOVE SILT WHEN IT REACHES A DEPTH OF 1/2 INCHES, OR ONE-THIRD OF THE HEIGHT OF THE BERM, WHICHEVER IS LESS. DISPOSE OF SILT IN APPROVED LOCATIONS.
- REMOVE BERM ONLY WHEN SITE IS COMPLETELY STABILIZED.

ROCK CHECK DAM

N.T.S.



CRITICAL ROOT ZONE AREA

N.T.S.

TREE PROTECTION FENCING

N.T.S.

PROTECTIVE FENCING: Orange vinyl construction fencing, chain link fencing, snow fencing, or other similar fencing at least four feet (4') high and supported at a maximum of ten-foot (10') intervals by approved methods sufficient enough to keep the fence upright and in place. The fencing shall be of a highly visible material.

PRIOR TO CONSTRUCTION: The contractor or subcontractor shall construct and maintain, for each protected tree or group of trees on a construction site, a protective fencing which encircles the outer limits of the critical root zone of the trees to protect it from construction activity. All protective fencing shall be in place prior to commencement of any site work and remain in place until all exterior work has been completed.

TP

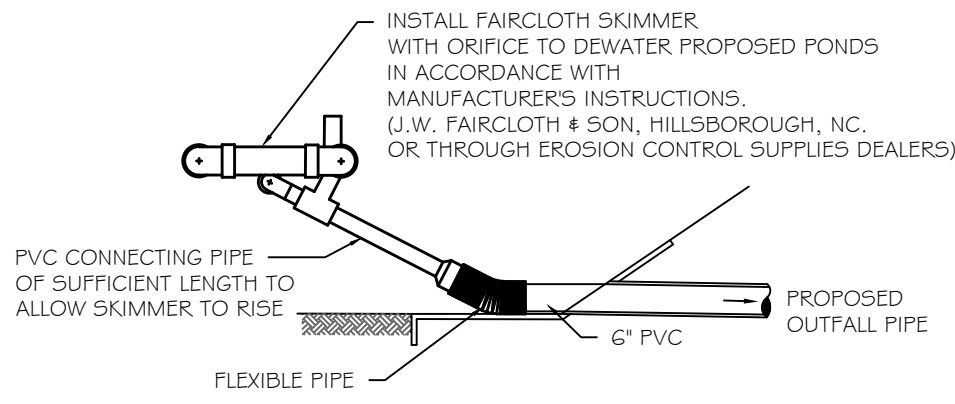
END VIEW

FRONT VIEW

PERSPECTIVE VIEW

FAIRCLOTH SKIMMER DETAIL

N.T.S.

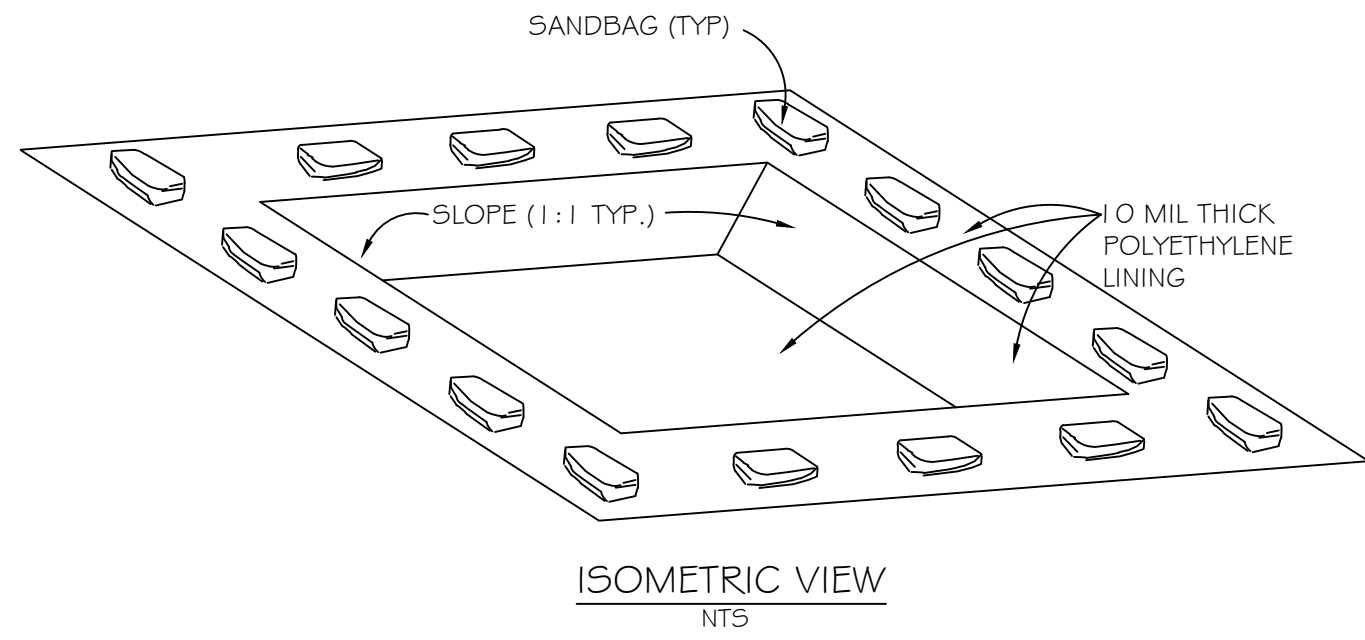


TEMPORARY OUTLET STRUCTURE DETAILS

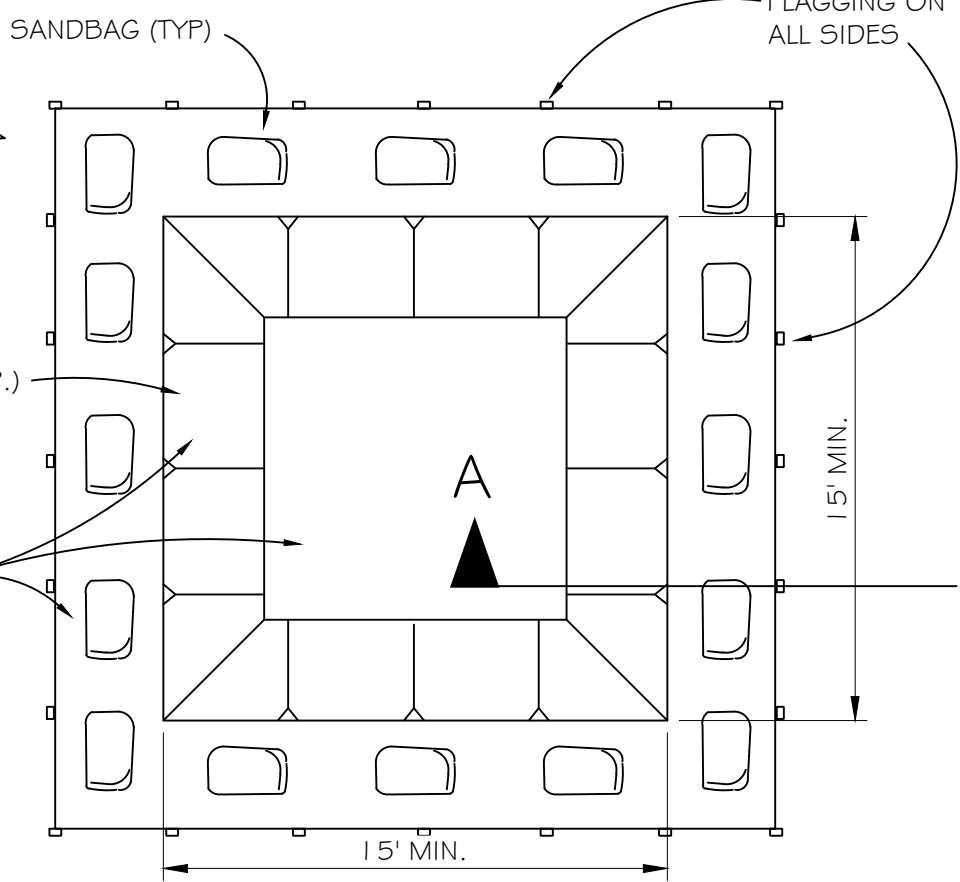
N.T.S.

SILT FENCE

N.T.S.



ISOMETRIC VIEW
NTS



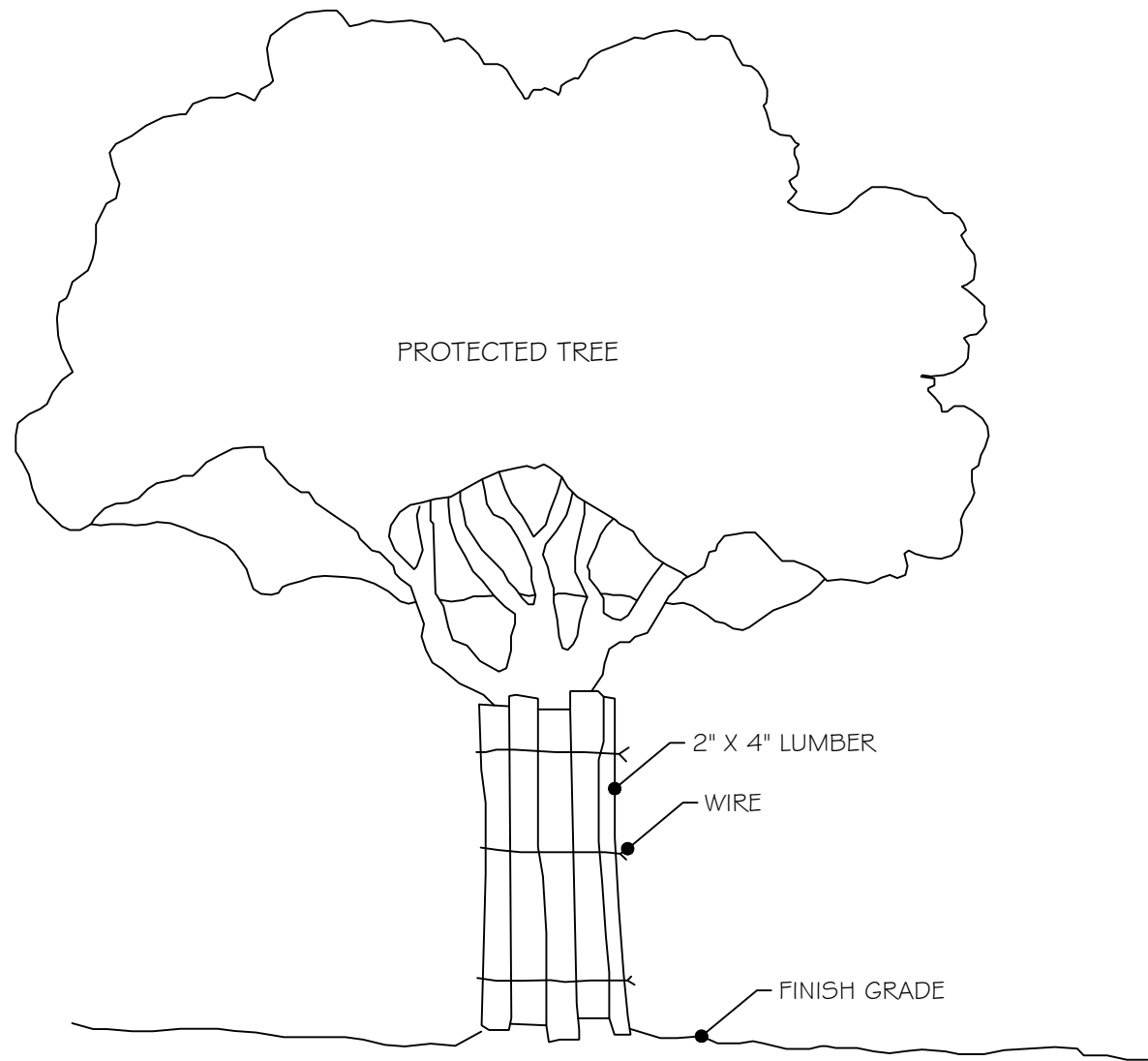
PLAN VIEW
NTS

NOTES:

- Actual layout, size and location to be determined by Contractor.
- The concrete washout sign shall be installed within 30 ft. of the temporary concrete washout facility.
- Once concrete wastes are allowed to harden, the concrete should be broken up, removed and disposed of properly. Dispose of hardened concrete on a regular basis.

TEMPORARY CONCRETE WASHOUT AREA

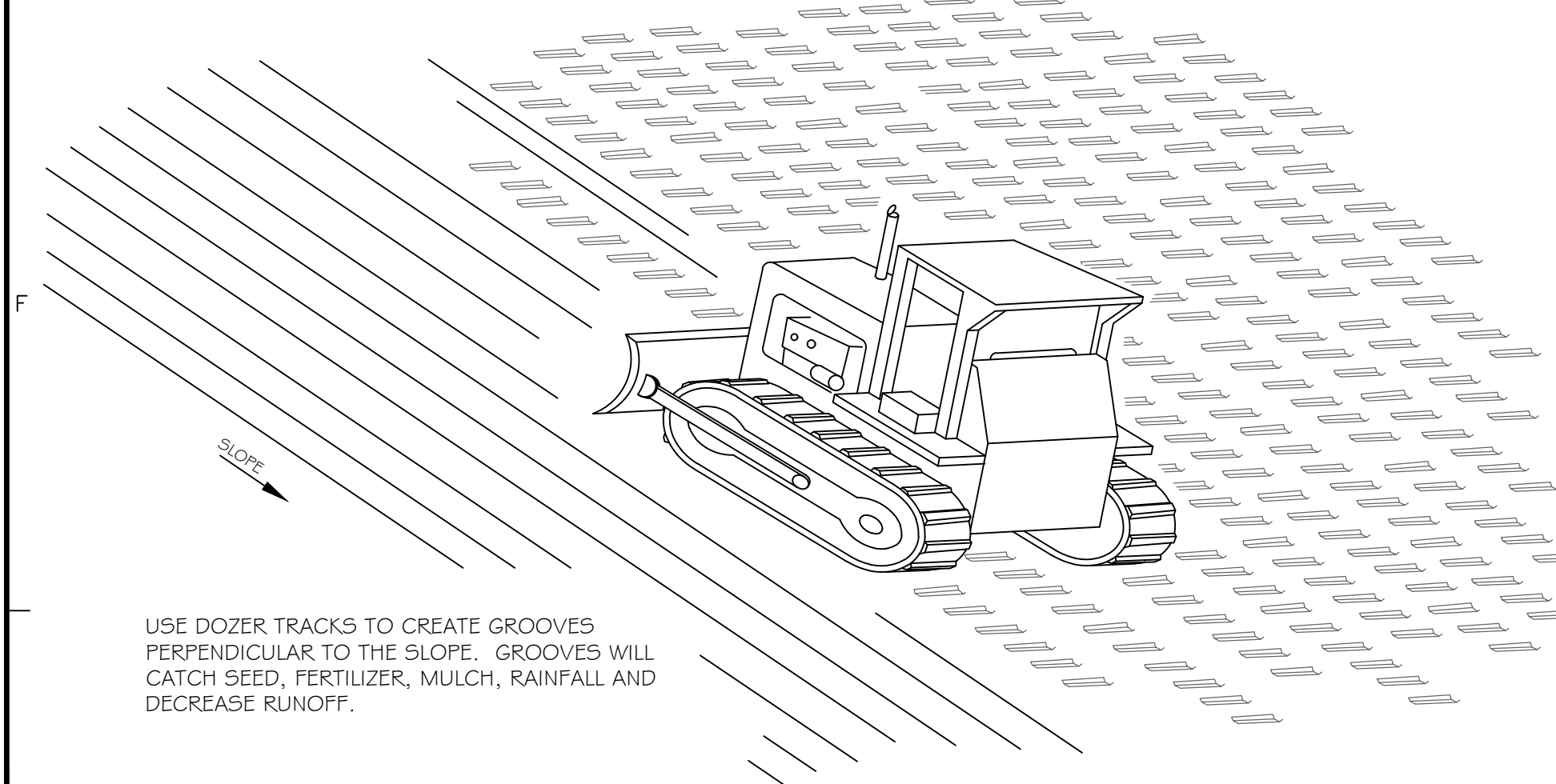
N.T.S.



In situations where a protected tree remains in the immediate area of intended construction and the tree may be in danger of being damaged by construction equipment or other activity, the contractor or subcontractor shall protect the tree with 2" x 4" lumber encircled with wire or other means that do not damage the tree. The intent is to protect the trunk of the tree against incidental contact by large construction equipment.

BARK PROTECTION

N.T.S.



USE DOZER TRACKS TO CREATE GROOVES PERPENDICULAR TO THE SLOPE. GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF.

TRACKING DETAIL

N.T.S.

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

I Dustin Akin,
Print Name

Director of Construction,
Title - Owner/President/Other

of Liberty Hill Independent School District,
Corporation/Partnership/Entity Name

have authorized Matt Hardy, PE
Print Name of Agent/Engineer

of Langan Engineering
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:

Dustin Akin
Applicant's Signature

01/30/2024
Date

THE STATE OF Texas §

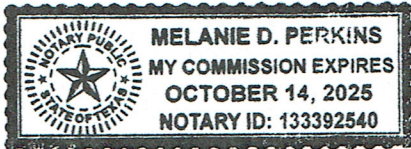
County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Dustin Akin 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 30th day of January 2024

Melanie D Perkins
NOTARY PUBLIC

Melanie D Perkins
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 10/14/25

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Liberty Hill Middle School No. 3

Regulated Entity Location: 30.660281, -97.874967

Name of Customer: Liberty Hill Independent School District

Contact Person: Dustin Akin

Phone: 512-260-5580

Customer Reference Number (if issued): CN 600788483

Regulated Entity Reference Number (if issued): RN 111535720

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	59.6 Acres	\$ 8,000.00
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: 02/08/2024

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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



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)		3. Regulated Entity Reference Number (if issued)
CN 600788483		RN 111535720

[Follow this link to search for CN or RN numbers in Central Registry**](#)

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		2/8/2024	
<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)				<i>If new Customer, enter previous Customer below:</i>	
Liberty Hill 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	
		<input type="checkbox"/> Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited			
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input checked="" type="checkbox"/> Other: ISD	
12. Number of Employees				13. Independently Owned and Operated?	
<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				<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 checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input 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:					
301 Forrest Street					
City: Liberty Hill State: TX ZIP: 78642 ZIP + 4:					
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				dakin@liberty.txed.net	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	
(512) 260-5580				(512) 260-5581	

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.)	
Liberty Hill Middle School No. 3	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	450 County Road 258						
	City	Liberty Hill	State	TX	ZIP	78642	ZIP + 4
24. County	Willamson						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	The poposed school is located on the East side of the US 183 about 0.5 miles North of it's intersection with SH 29 and about 0.35 miles East of US 183						
26. Nearest City	Liberty Hill				State	TX	Nearest ZIP Code
							78642
27. Latitude (N) In Decimal:	30.660281			28. Longitude (W) In Decimal:	-97.874967		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
30	39	37	97	52	30		
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			611110				
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>							
Public Education							
34. Mailing Address:	301 Forrest Street						
	City	Liberty Hill	State	TX	ZIP	78642	ZIP + 4
35. E-Mail Address:		dakin@libertyhill.txed.net					
36. Telephone Number		37. Extension or Code		38. Fax Number <i>(if applicable)</i>			
(512) 260-5580				(512) 260-5581			

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
		11003161		
<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:	Matt Hardy, PE	41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(817) 328-3240		(737) 289-7801	mhardy@langan.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:	Langan Engineering	Job Title:	Project Manager
Name <i>(In Print)</i> :	Matt Hardy, P.E.	Phone:	(817) 328- 3240
Signature:		Date:	2/8/2024