

# ■ Water Pollution Abatement Plan Modification

## Additions and Renovations to New Braunfels High School for New Braunfels I.S.D.

2551 TX-337 Loop,  
New Braunfels, Texas 78130

Prepared for:  
TCEQ



Applicant: Richard Underwood, P.E.

**Kimley»»Horn**

10101 Reunion Place, Suite 400  
San Antonio, TX 78216  
(210) 321-3415  
KHA No. 066017050

**Texas Commission on Environmental Quality  
Water Pollution Abatement Plan  
General Construction Notes**

**Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer**

*The following/listed “construction notes” are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed “construction notes” restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing “construction notes” is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED’s approval, whether or not in contradiction of any “construction notes,” is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed “construction notes” in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation*

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include:
  - the name of the approved project;
  - the activity start date; and
  - the contact information of the prime contractor.
2. All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
3. If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.
4. No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
5. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
6. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
7. Sediment must be removed from the sediment traps or sedimentation basins not later than

when it occupies 50% of the basin's design capacity.

8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
10. If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14<sup>th</sup> day of inactivity. If activity will resume prior to the 21<sup>st</sup> day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14<sup>th</sup> day, stabilization measures shall be initiated as soon as possible.
11. The following records shall be maintained and made available to the TCEQ upon request:
  - the dates when major grading activities occur;
  - the dates when construction activities temporarily or permanently cease on a portion of the site; and
  - the dates when stabilization measures are initiated.
12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
  - A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
  - B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
  - C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339-2929 Fax (512) 339-3795	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329
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**THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.**

# Modification of a Previously Approved Plan Checklist

- ✗ **Edwards Aquifer Application Cover Page (TCEQ-20705)**
- ✗ **General Information Form (TCEQ-0587)**
  - Attachment A - Road Map
  - Attachment B - USGS / Edwards Recharge Zone Map
  - Attachment C - Project Description
- ✗ **Geologic Assessment Form (TCEQ-0585)**
  - Attachment A - Geologic Assessment Table (TCEQ-0585-Table)
  - Attachment B - Stratigraphic Column
  - Attachment C - Site Geology
  - Attachment D - Site Geologic Map(s)
- ✗ **Modification of a Previously Approved Plan (TCEQ-0590)**
  - Attachment A - Original Approval Letter and Approved Modification Letters
  - Attachment B - Narrative of Proposed Modification
  - Attachment C - Current Site Plan of the Approved Project
- ✗ **Application Form (include any applicable to the proposed modification):**
  - Aboveground Storage Tank Facility Plan (TCEQ-0575)
  - Organized Sewage Collection System Application (TCEQ-0582)
  - Underground Storage Tank Facility Plan (TCEQ-0583)
  - Water Pollution Abatement Plan Application (TCEQ-0584)
  - Lift Station / Force Main System Application (TCEQ-0624)
- ✗ **Temporary Stormwater Section (TCEQ-0602)**
  - Attachment A - Spill Response Actions
  - Attachment B - Potential Sources of Contamination
  - Attachment C - Sequence of Major Activities
  - Attachment D - Temporary Best Management Practices and Measures
  - Attachment E - Request to Temporarily Seal a Feature (if requested)
  - Attachment F - Structural Practices
  - Attachment G - Drainage Area Map
  - Attachment H - Temporary Sediment Pond(s) Plans and Calculations
  - Attachment I - Inspection and Maintenance for BMPs
  - Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices
- ✗ **Permanent Stormwater Section (TCEQ-0600), if necessary**
  - Attachment A - 20% or Less Impervious Cover Declaration (if requested for multi-family, school, or small business site)
  - Attachment B - BMPs for Upgradient Stormwater

Attachment C - BMPs for On-site Stormwater

Attachment D - BMPs for Surface Streams

Attachment E - Request to Seal Features, if sealing a feature

Attachment F - Construction Plans

Attachment G - Inspection, Maintenance, Repair and Retrofit Plan

Attachment H - Pilot-Scale Field Testing Plan (if requested)

Attachment I - Measures for Minimizing Surface Stream Contamination

- ✘ Agent Authorization Form (TCEQ-0599), if application submitted by agent**
- ✘ Application Fee Form (TCEQ-0574)**
- ✘ Check Payable to the "Texas Commission on Environmental Quality"**
- ✘ Core Data Form (TCEQ-10400)**

# Texas Commission on Environmental Quality

## Edwards Aquifer Application Cover Page

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### 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.

<b>1. Regulated Entity Name: NBISD High School</b>					<b>2. Regulated Entity No.: RN102402526</b>				
<b>3. Customer Name: New Braunfels High School</b>					<b>4. Customer No.: CN600397814</b>				
<b>5. Project Type:</b> (Please circle/check one)	New	<b>Modification</b>			Extension	Exception			
<b>6. Plan Type:</b> (Please circle/check one)	<b>WPAP</b>	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
<b>7. Land Use:</b> (Please circle/check one)	Residential	<b>Non-residential</b>			<b>8. Site (acres):</b>			56	
<b>9. Application Fee:</b>	\$8,000	<b>10. Permanent BMP(s):</b>				1			
<b>11. SCS (Linear Ft.):</b>	N/A	<b>12. AST/UST (No. Tanks):</b>				N/A			
<b>13. County:</b>	Comal	<b>14. Watershed:</b>				Comal River-Guadalupe 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](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.

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

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

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

**Richard Underwood, P.E. (Authorized Agent)**

Print Name of Customer/Authorized Agent

02/23/2023

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):

# General Information Form

## Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) 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.**

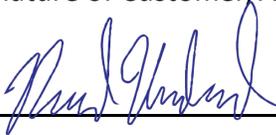
## Signature

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 **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Richard Underwood, P.E.

Date: 2/22/2023

Signature of Customer/Agent:

  
\_\_\_\_\_

## Project Information

1. Regulated Entity Name: NBISD High School
2. County: Comal
3. Stream Basin: Guadalupe River Basin
4. Groundwater Conservation District (If applicable): N/A
5. Edwards Aquifer Zone:  
 Recharge Zone  
 Transition Zone
6. Plan Type:  
 WPAP  
 SCS  
 Modification  
 AST  
 UST  
 Exception Request

7. Customer (Applicant):

Contact Person: Clint McLain

Entity: New Braunfels ISD

Mailing Address: 1000 N Walnut

City, State: New Braunfels, TX

Zip: 78130

Telephone: 8406435700

FAX: \_\_\_\_\_

Email Address: cmclain @nbisd.org

8. Agent/Representative (If any):

Contact Person: Richard Underwood, P.E.

Entity: Kimley-Horn & Associates Inc.

Mailing Address: 10101 Reunion Place, Suite 400

City, State: San Antonio, TX

Zip: 78216

Telephone: 2103213415

FAX: \_\_\_\_\_

Email Address: richard.underwood@kimley-horn.com

9. Project Location:

The project site is located inside the city limits of New Braunfels.

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

The project site is not located within any city's limits or ETJ.

10.  The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

2551 Loop 337, New Braunfels, TX 78130

11.  **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12.  **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

Project site boundaries.

USGS Quadrangle Name(s).

Boundaries of the Recharge Zone (and Transition Zone, if applicable).

Drainage path from the project site to the boundary of the Recharge Zone.

13.  **The TCEQ must be able to inspect the project site or the application will be returned.** Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

Survey staking will be completed by this date: \_\_\_\_\_

14.  **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. 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

15. 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/Uncleared)
- Other: \_\_\_\_\_

### ***Prohibited Activities***

16.  I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
- (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
- (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
- (4) The use of sewage holding tanks as parts of organized collection systems; and
- (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
- (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17.  I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

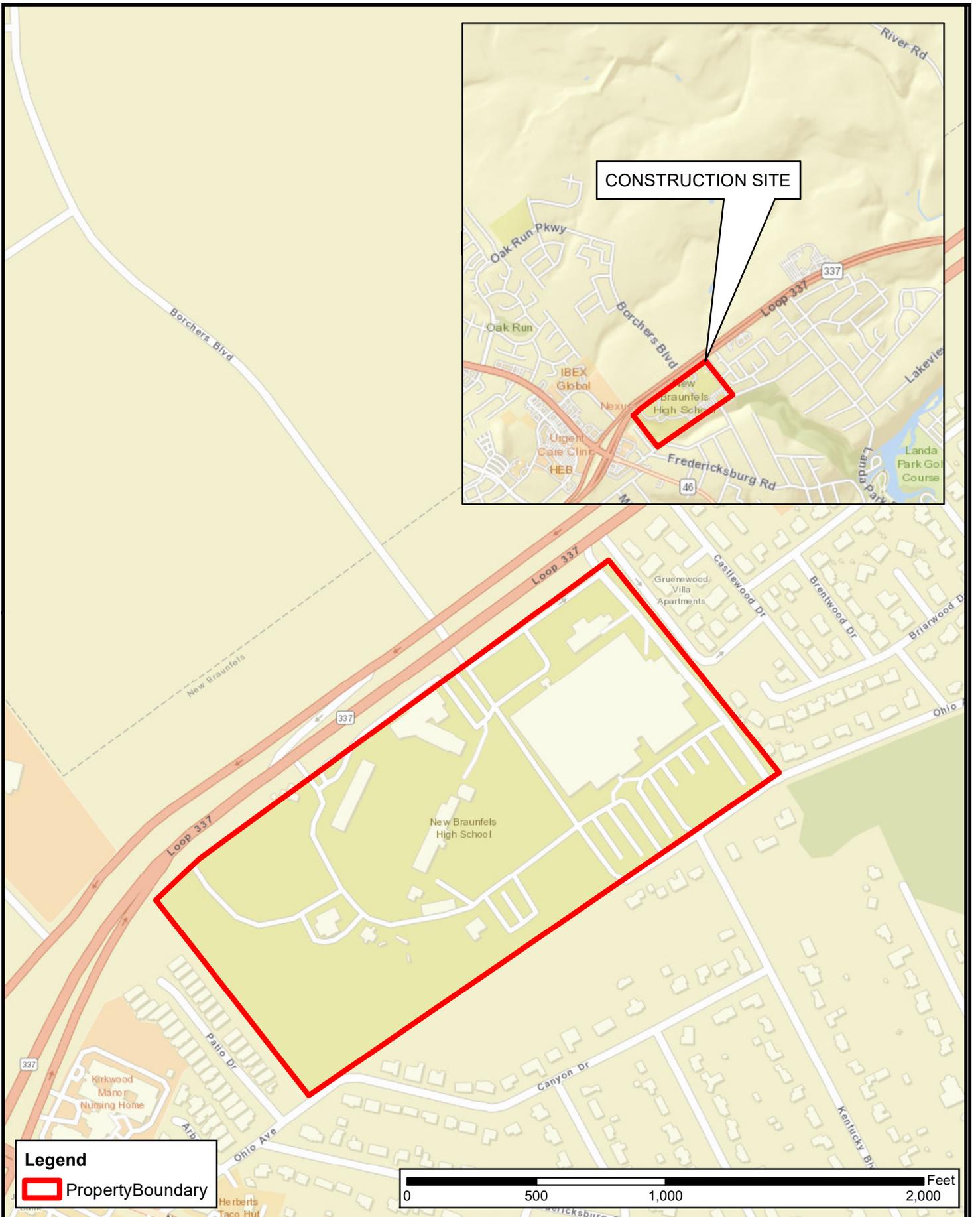
- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

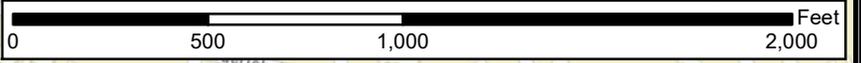
### ***Administrative Information***

18. The fee for the plan(s) is based on:

- For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
  - For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
  - For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
  - A request for an exception to any substantive portion of the regulations related to the protection of water quality.
  - A request for an extension to a previously approved plan.
19.  Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:
- TCEQ cashier
  - Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
  - San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
20.  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.
21.  No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.



**Legend**  
 Property Boundary



<b>1</b>	SHEET	DATE: 07/18/2022
	DESIGN: ME	
	DRAWN: ME	
	CHECKED: BE	
	OF 2 SHEETS	KHA NO.: 066017050

## Attachment A Road Map

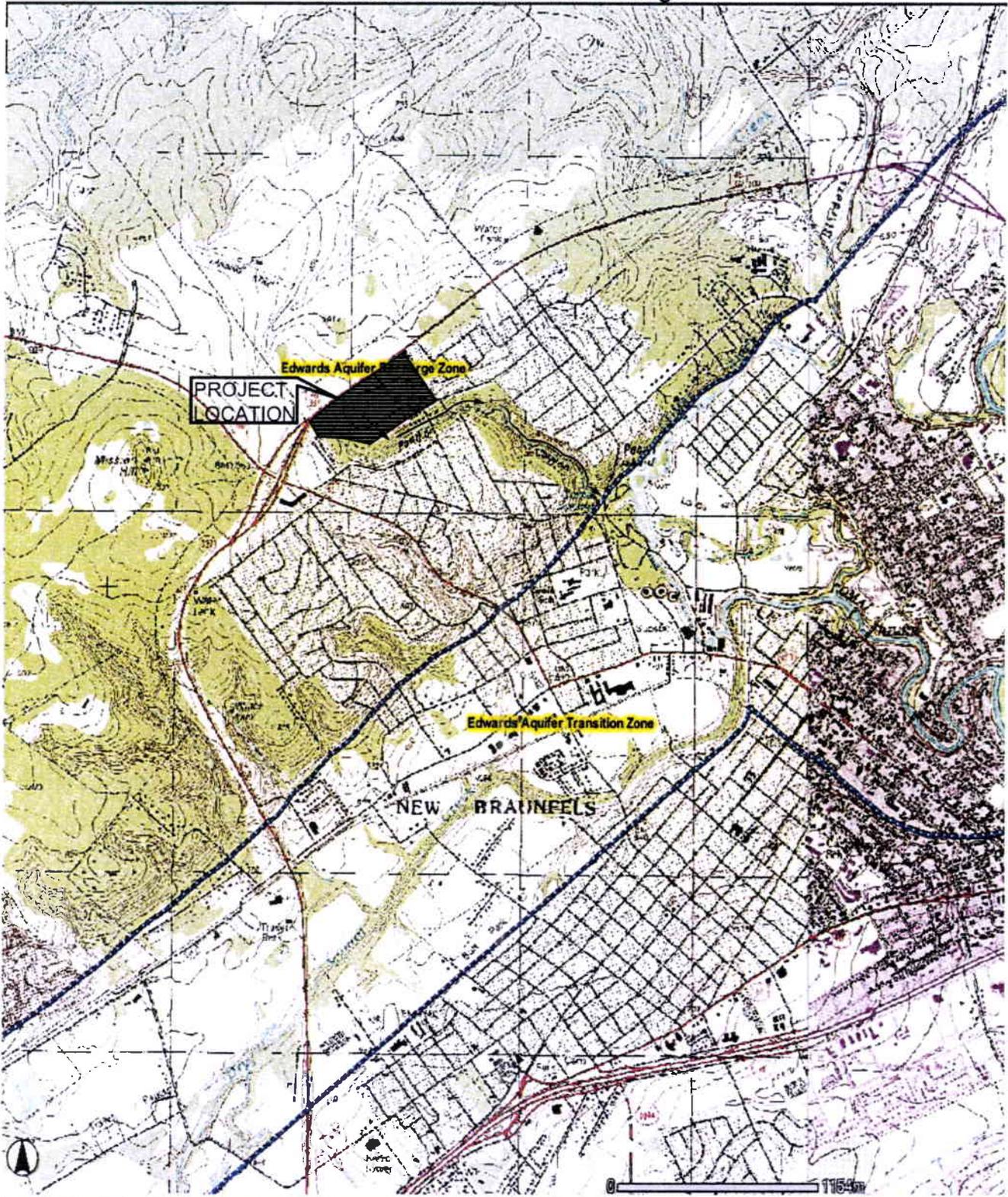
Storm Water Pollution  
Prevention Plan  
New Braunfels  
High School  
New Braunfels, Texas



**Kimley»Horn**

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

New Braunfels West Quadrangle



Scale 1:24,000 = 1" = 2,000'

ATTACHMENT B  
USGS/ Edwards Recharge Zone Map

# PROJECT DESCRIPTION

This modification is being submitted for the proposed additions to New Braunfels High School for New Braunfels I.S.D. in New Braunfels, Comal County, Texas. The site is located at 2551 TX-337 Loop, as shown in the Road Map (Attachment A).

A previous Water Pollution Abatement Plan (WPAP) was modified and approved on March 17, 2011 and included 29.96 acres of impervious cover, including the proposed Greenhouse addition (records not available upon request per TCEQ).

Another WPAP modification was approved in 2016 and decreased the overall impervious cover from 29.96 acres to 29.92 acres. The existing percentage of impervious cover is 53.42% of the site. All work for the 2016 modification has been completed. The water quality pond has been inspected, and a letter of substantial completion was submitted to the TCEQ. (Records not available upon request per TCEQ).

Then a WPAP Exception (#13001148) was approved in 2020 for the renovation and construction of facilities around the high school's baseball fields. The site's impervious cover increased to 53.53% of the entire 56-acre site (net increase of 0.058 ac).

The existing high school consists of school buildings, athletic facilities, associated parking, and drive aisles. Generally, the site sheet flows from the north to the southeast property line. The overall site drains into an existing private storm system and then discharges into a partial filtration / sedimentation and detention pond. Runoff from the football field is currently routed to the southeast via overland flow and exits the property without detention or treatment. A vegetative filter strip added for the WPAP exception, treats runoff generated by the baseball fields. The surrounding area has been fully developed, and the property is zoned as R-2 for Single Family and Two Family Residential. The site is not within the limits of any 100-yr flood plain and does not have a Critical Water Quality Zone. The site is however, located within the Edward's Aquifer Recharge Zone.

The proposed high school improvements include additional school buildings, athletic courts, athletic fields, locker room, associated parking, and drive aisles. The site's impervious cover will increase to 60.2% of the entire 56-acre site (31.12 ac). The existing sand filter pond will be demolished, and the proposed filtration / sedimentation and detention pond will be constructed in its place. A new, private storm system will convey runoff from the redeveloped portions of the site to the proposed pond. The existing storm sewer will also discharge to the new pond. The proposed pond will outfall to the flood plain east of the site, via structures depicted on the Pond Plan and Profiles sheet. A portion of the site to the north and west will continue to overland flow off site as before, in the existing condition.

# Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), 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. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Jonathan B. Selby

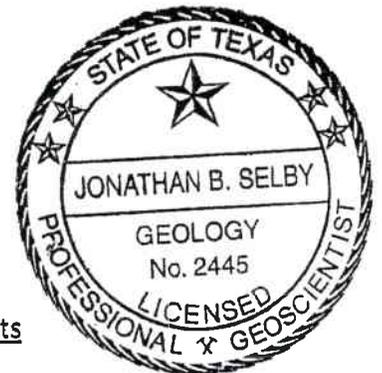
Telephone: 512-658-7178

Date: 07/19/2016

Fax: none

Representing: Jonathan B. Selby; #2455

Signature of Geologist:



Regulated Entity Name: NBISD New Braunfels High School Improvements

## Project Information

1. Date(s) Geologic Assessment was performed: 07/16/2016

2. Type of Project:

WPAP

AST

SCS

UST

3. Location of Project:

Recharge Zone

Transition Zone

Contributing Zone within the Transition Zone

4.  **Attachment A - Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
5.  Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups\* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

**Table 1 - Soil Units, Infiltration Characteristics and Thickness**

Soil Name	Group*	Thickness(feet)
Comfort-Rock outcrop complex (CrD)	D	1.67
Eckrant-Rock outcrop complex (ErG)	D	1.67
Rumple-Comfort association (RUD)	C	3.0

\* Soil Group Definitions (Abbreviated)

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted.

6.  **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7.  **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8.  **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'  
 Applicant's Site Plan Scale: 1" = 100'  
 Site Geologic Map Scale: 1" = 100'  
 Site Soils Map Scale (if more than 1 soil type): 1" = 500'
9. Method of collecting positional data:
  - Global Positioning System (GPS) technology.
  - Other method(s). Please describe method of data collection: \_\_\_\_\_

10.  The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11.  Surface geologic units are shown and labeled on the Site Geologic Map.
12.  Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- Geologic or manmade features were not discovered on the project site during the field investigation.
13.  The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- There are 4 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- The wells are not in use and have been properly abandoned.
- The wells are not in use and will be properly abandoned.
- The wells are in use and comply with 16 TAC Chapter 76.
- There are no wells or test holes of any kind known to exist on the project site.

### ***Administrative Information***

15.  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.

GEOLOGIC ASSESSMENT TABLE						PROJECT NAME: NBISD New Braunfels High School Improvements													
LOCATION			FEATURE CHARACTERISTICS										EVALUATION		PHYSICAL SETTING				
1A	1B*	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10	11		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DENSITY (KG/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY	CATCHMENT AREA (ACRES)		TOPOGRAPHY	
	N	W				X	Y	Z							40	200	<1.0	>1.0	
S1	29.717307	-98.152667	MB	30				25'						5	35	X		X	Hillside
S2	29.716845	-98.151788	MB	30				20'						5	35	X		X	Hillside
S3	29.718071	-98.15111	MB	30				20'						5	35	X		X	Hillside
S4	29.719122	-98.149965	MB	30				20'						5	35	X		X	Hillside

\* DATUM:

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
X	Other materials

12 TOPOGRAPHY  
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.

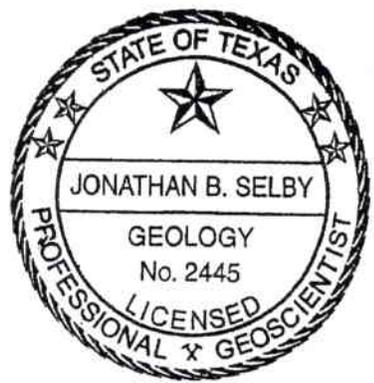
My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.



Date: 07/19/2016

Sheet \_\_\_1\_\_\_ of \_\_\_1\_\_\_

TCEQ-0585-Table (Rev. 10-01-04)



## STRATIGRAPHIC COLUMN

### NBISD New Braunfels High School Improvements 2551 Loop 337 New Braunfels TX, 78130

SYSTEM	FORMATION	THICKNESS	GENERAL DESCRIPTION
Cretaceous	Pearson (Kep)	~50' - 75'	<p><b>Cyclic and Marine Members, Undivided</b> Limestone, dolomite and chert: limestone is fine-grained, massive to thin bedded; dolomite is fine-grained, grayish brown and porous; chert nodules common. Vuggy.</p>
Cretaceous	Kainer (Kek)	100'	Massively bedded cyclic subtidal to tidal flat mudstone to grainstone dolomitic limestone

# SITE GEOLOGY

## NBISD New Braunfels High School Improvements 2551 Loop 337 New Braunfels TX, 78130

### **Description:**

The site is located at 2551 Loop 337, New Braunfels, Texas. The site, which slopes to the east and southeast, is located on the Cretaceous Pearson Formation (Kep) which dips gently to the southeast. Regional geologic maps do not indicate any faults transect the site.

### **Soils:**

The soil types on-site are: The Comfort-Rock outcrop complex (CrD), with 1 to 8 percent slopes, averaging 20 inches in thickness and possesses moderately slow permeability (0.06 – 0.20 in/hr). The Eckrant-Rock outcrop complex (ErG), with 8 to 30 percent slopes, averaging 20 inches in thickness and possesses moderately slow permeability (0.20 – 0.60 in/hr). The Rumble-Comfort association (RUD), with 1 to 8 percent slopes, averaging 36 inches in thickness and possesses moderately slow permeability (0.20 – 0.60 in/hr).

### **Features:**

The site was investigated according to TCEQ guidelines.

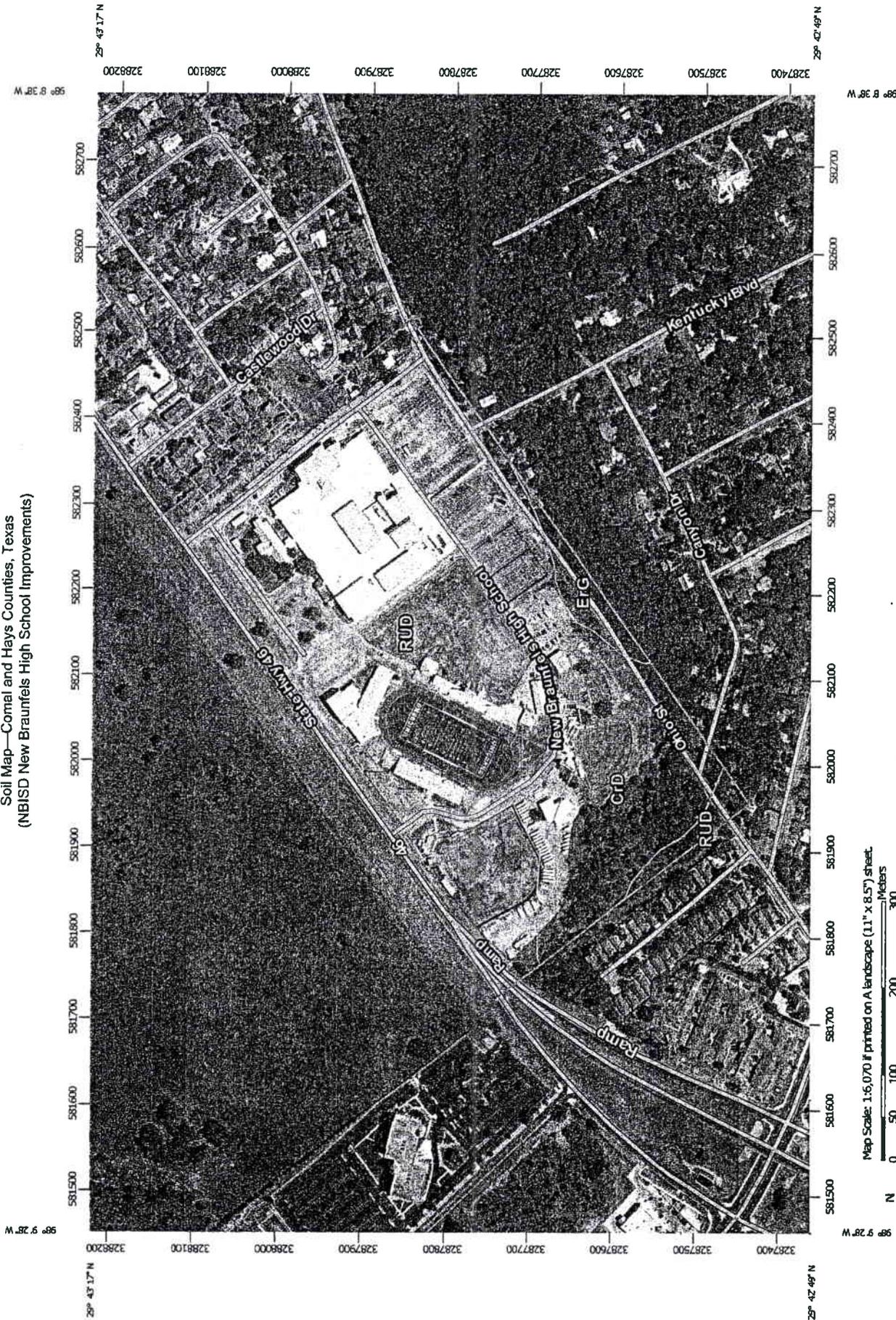
There are four boreholes located on the site. All boreholes were plugged according to regulations.

**S1-** Borehole 1 was drilled to a depth of 25'. Voids were discovered between 9' - 14½' and 19' – 23'. These voids are not connected to any visible recharge feature at the surface.

**S2, S3 & S4-** Boreholes 2-4 were drilled to a depth of 20'. No voids were penetrated during drilling.

No solution cavities, caves, sinkholes, faults, fractured outcrops, other karst-related features or water wells were discovered. No recharge features were discovered. Therefore, on a relative basis, recharge on-site is low.

Soil Map—Comal and Hays Counties, Texas  
 (NBISD New Braunfels High School Improvements)



Map Scale: 1:6,070 if printed on A landscape (11" x 8.5") sheet

Map projection: Web Mercator Corner coordinates: WGS84 Edge ticks: UTM Zone 14N WGS84

## MAP LEGEND

	Area of Interest (AOI)		Soil Map Unit Polygons		Spoil Area
	Area of Interest (AOI)		Soil Map Unit Lines		Stony Spot
	Soils		Soil Map Unit Points		Very Stony Spot
	Special Point Features		Blowout		Wet Spot
	Blowout		Borrow Pit		Other
	Clay Spot		Closed Depression		Special Line Features
	Gravel Pit		Gravelly Spot		Streams and Canals
	Landfill		Lava Flow		Transportation
	Marsh or swamp		Mine or Quarry		Rails
	Miscellaneous Water		Perennial Water		Interstate Highways
	Rock Outcrop		Saline Spot		US Routes
	Sandy Spot		Severely Eroded Spot		Major Roads
	Sinkhole		Slide or Slip		Local Roads
	Sodic Spot		Background		Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Comal and Hays Counties, Texas  
Survey Area Data: Version 11, Sep 24, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 6, 2011—Feb 12, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Comal and Hays Counties, Texas (TX004)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CrD	Comfort-Rock outcrop complex, 1 to 8 percent slopes	11.4	17.1%
ErG	Eckrant-Rock outcrop complex, 8 to 30 percent slopes	1.7	2.5%
RUD	Rumple-Comfort association, 1 to 8 percent slopes	53.8	80.4%
<b>Totals for Area of Interest</b>		<b>66.9</b>	<b>100.0%</b>

# Modification of a Previously Approved 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.***

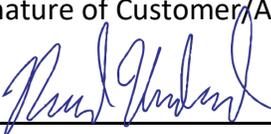
## Signature

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

Print Name of Customer/Agent: Richard Underwood, P.E.

Date: 2/22/2023

Signature of Customer/Agent:



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## Project Information

1. Current Regulated Entity Name: NBISD High School  
Original Regulated Entity Name: N/A  
Regulated Entity Number(s) (RN): RN102402526  
Edwards Aquifer Protection Program ID Number(s): \_\_\_\_\_  
 The applicant has not changed and the Customer Number (CN) is: CN600397814  
 The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
2.  **Attachment A: Original Approval Letter and Approved Modification Letters.** A copy of the original approval letter and copies of any modification approval letters are attached.

3. A modification of a previously approved plan is requested for (check all that apply):
- Physical or operational modification of any water pollution abatement structure(s) including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
  - Change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
  - Development of land previously identified as undeveloped in the original water pollution abatement plan;
  - Physical modification of the approved organized sewage collection system;
  - Physical modification of the approved underground storage tank system;
  - Physical modification of the approved aboveground storage tank system.
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.

<b><i>WPAP Modification</i></b>	<b><i>Approved Project</i></b>	<b><i>Proposed Modification</i></b>
<b><i>Summary</i></b>		
Acres	<u>56.57</u>	<u>56.57</u>
Type of Development	<u>Commercial</u>	<u>Commercial</u>
Number of Residential Lots	<u>N/A</u>	<u>N/A</u>
Impervious Cover (acres)	<u>30.46</u>	<u>34.56</u>
Impervious Cover (%)	<u>53.8</u>	<u>61.1</u>
Permanent BMPs	<u>Sand Filter</u>	<u>Sand Filter</u>
Other	_____	_____

<b><i>SCS Modification</i></b>	<b><i>Approved Project</i></b>	<b><i>Proposed Modification</i></b>
<b><i>Summary</i></b>		
Linear Feet	<u>N/A</u>	<u>N/A</u>
Pipe Diameter	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>

<b>AST Modification</b>	<b>Approved Project</b>	<b>Proposed Modification</b>
<b>Summary</b>		
Number of ASTs	<u>N/A</u>	<u>N/A</u>
Volume of ASTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>

<b>UST Modification</b>	<b>Approved Project</b>	<b>Proposed Modification</b>
<b>Summary</b>		
Number of USTs	<u>N/A</u>	<u>N/A</u>
Volume of USTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>

5.  **Attachment B: Narrative of Proposed Modification.** A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved, including any 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.  The acreage of the approved plan has increased. A Geologic Assessment has been provided for the new acreage.
  - Acreage has not been added to or removed from the approved plan.
  
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.

## Attachment A

**Original Approval Letter**  
(Unavailable upon request per TCEQ staff)

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*

July 16, 2020

Mr. Daryl Stoker  
New Braunfels Independent School District  
430 W. Mill Street  
New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: NBISD High School; Located at 2551 Loop 337 N; New Braunfels, Texas

TYPE OF PLAN: Request for an Exception to the Requirements of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN102402526; Additional ID No. 13001148

Dear Mr. Stoker:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the Exception Request application for the above-referenced project submitted to the San Antonio Regional Office by Gil Engineering Associates, Inc. on behalf of the New Braunfels Independent School District on May 22, 2020. Final review of the Exception Request was completed after additional material was received on June 16, 2020, June 26, 2020 and July 2, 2020. As presented to the TCEQ, the Exception Request proposed in the submittal is in general compliance with the requirements of 30 TAC Chapter 213. Therefore, the request for exception is 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 project site consists of the existing 56-acre New Braunfels Independent School District High School site. This project proposes the addition of 0.06 acres of impervious cover for concrete walkways, restroom, concession building, and parking associated with the existing baseball field. Total site impervious cover will increase to 29.98 acres (53.53 percent). Project wastewater will be disposed of by conveyance to the existing Kuehler Wastewater Treatment Plant owned and operated by New Braunfels Utilities.

### PERMANENT POLLUTION ABATEMENT MEASURES

---

TCEQ Region 13 • 14250 Judson Rd. • San Antonio, Texas 78233-4480 • 210-490-3096 • Fax 210-545-4329

Austin Headquarters: 512-239-1000 • [tceq.texas.gov](http://tceq.texas.gov) • How is our customer service? [tceq.texas.gov/customer-survey](http://tceq.texas.gov/customer-survey)

printed on recycled paper

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a 15-foot engineered vegetative filter strip, 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 54 pounds of TSS generated from the 0.06 acres of impervious cover. The approved measure meets the required 80 percent removal of the increased load in TSS caused by the project.

#### GEOLOGY

According to the geologic assessment included with the application, the site is located on the Person Formation. Four (4) non-sensitive manmade features in bedrock were noted by the project geologist. The TCEQ did not conduct a site assessment.

#### 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. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved Exception is enclosed.
5. 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 Exception and this notice of approval shall be maintained at the project location until all regulated activities are completed.
6. Modification to the activities described in the referenced Exception 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.
7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone

- number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Exception, 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.
  9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

10. During the course of regulated activities related to this project, the applicant or 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.
11. 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. 6, above.
12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
13. No wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
15. 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.
16. 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.
17. 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

Mr. Daryl Stoker  
Page 4  
July 16, 2020

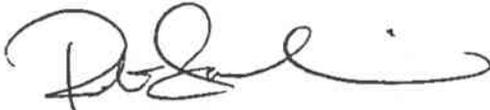
will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

18. 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 San Antonio Regional Office within 30 days of site completion.
19. 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. The regulated 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 San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
21. An Edwards Aquifer protection 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 Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
22. 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 Dianne Pavlicek-Mesa, P.G. of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4074.

Sincerely,



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

RCS/dpm

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625  
Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

Mr. Daryl Stoker  
Page 5  
July 16, 2020

cc: Mr. Victor Gil, P.E., Gil Engineering Associates  
Mr. Robert Camareno, City of New Braunfels  
Mr. Thomas H. Hornseth, P.E., Comal County Engineer  
Mr. H. L. Saur, Comal Trinity Groundwater Conservation District  
Mr. Roland Ruiz, Edwards Aquifer Authority

## NARRATIVE OF PROPOSED MODIFICATION

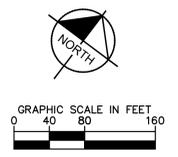
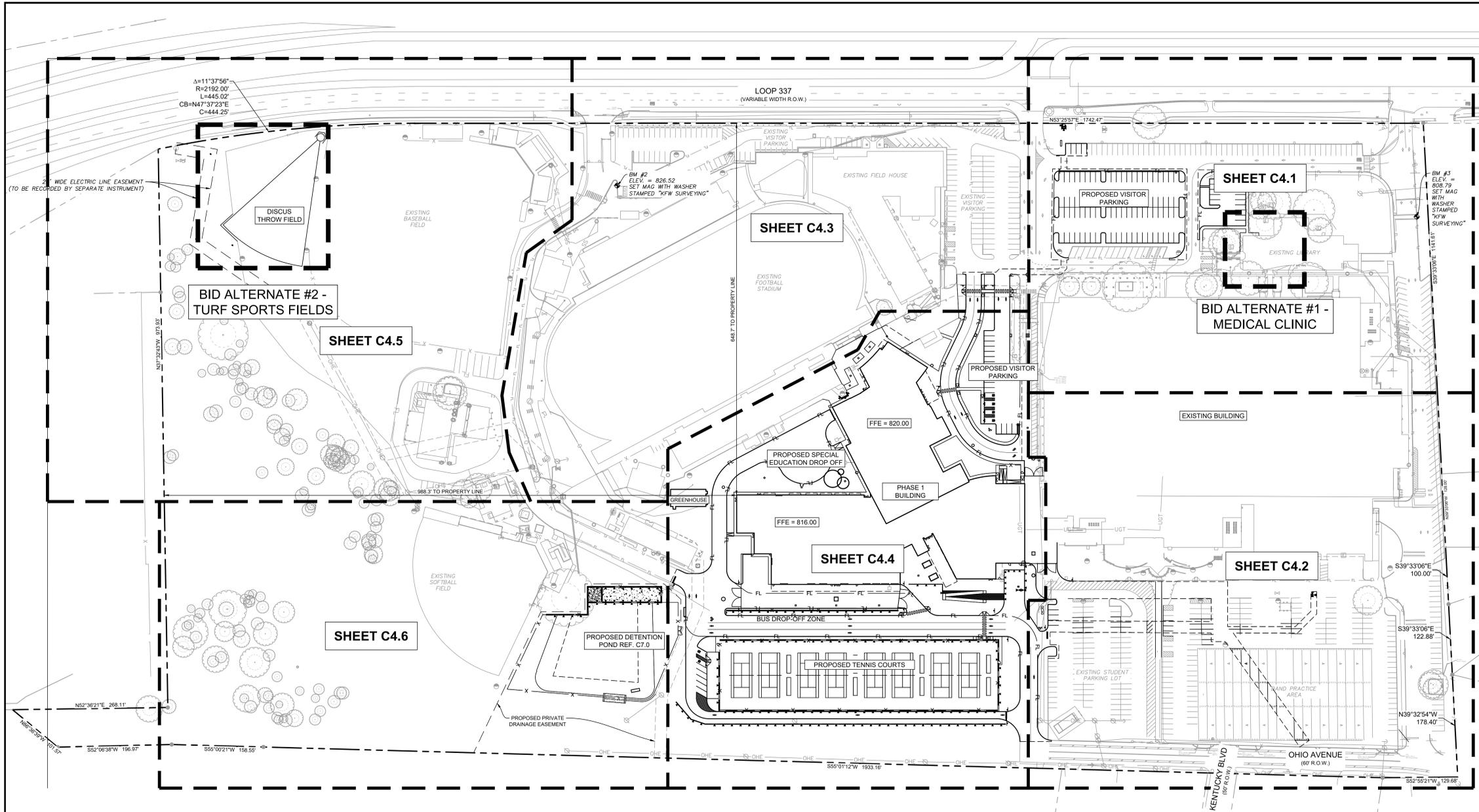
The proposed modification will increase the amount of impervious cover from 30.46 acres to 34.56 acres. This changes the overall site's impervious cover of 53.8% to 61.1%. The WPAP permitted in 2011 included 29.96 acres, so this modification will facilitate a net increase of 4.6 acres from the original plan.

Generally, the site sheet flows from the north to the southeast property line. The overall developed portion of the site drains into an existing private storm system and then discharges into a partial filtration / sedimentation and detention pond. Runoff from the football field is currently routed to the southeast via overland flow and exits the property without detention or treatment. A vegetative filter strip added from the WPAP exception, treats runoff generated by the baseball fields. The site is not within the limits of any 100-yr flood plain and does not have a Critical Water Quality Zone. The site is however, located within the Edward's Aquifer Recharge Zone.

The existing sand filter pond will be demolished, and the proposed filtration / sedimentation and detention pond will be constructed in its place. A new, private storm system will convey runoff from the redeveloped portions of the site to the proposed pond. The existing storm sewer will remain and discharge to the new pond. The proposed pond will outfall to the flood plain east of the site, via structures depicted on the Pond Plan and Profiles sheet. A portion of the site to the north and west will continue to overland flow off site as before, in the existing condition.

There are no factors affecting the surface water or ground water quality.

**ATTACHMENT C**  
Site Plan



**LEGEND**

- PROPERTY BOUNDARY
- - - PROPOSED SAWCUT LINE
- - - PROPOSED FIRE LANE
- - - PROPOSED GUARD RAIL
- - - PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL)
- - - PROPOSED BUILDING CANOPY
- PROPOSED PARKING COUNT
- PROPOSED ACCESSIBLE PARKING SPACE
- PROPOSED BARRIER FREE RAMP
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED CURB INLET
- PROPOSED FIRE HYDRANT
- PROPOSED POWER POLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE

- NOTES**
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
  - REFER TO ARCHITECTURAL CONSTRUCTION DRAWINGS FOR EXACT BUILDING DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAIL OF HARDSCAPE.
  - ALL CURB RADI ARE 3 FEET UNLESS DIMENSIONED OTHERWISE.
  - BUILDING, MECHANICAL EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND DIMENSIONS.
  - ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH CITY OF NEW BRAUNFELS STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED.

**SITE DATA TABLE**

GENERAL SITE DATA	
LEGAL DESCRIPTION	ANDRES SANCHEZ SURVEY NO. 286, ABSTRACT NO. 528, J.M. VERAMENDI SURVEY NO. 1, ABSTRACT NO. 2, J.M. VERAMENDI SURVEY NO. 2, ABSTRACT NO. 3
ZONING	R2
SITE ACREAGE	52.63
ADDRESS	5221 LOOP 337 NEW BRAUNFELS, TX 78130
BUILDING DATA	
PROPOSED BUILDING SQUARE FOOTAGE	209,630 SF
PROPOSED BUILDING HEIGHT	38'
PARKING DATA	
REQUIRED PARKING SPACES	647
STANDARD SPACES PROVIDED	644
ACCESSIBLE SPACES PROVIDED	19
ACCESSIBLE VAN SPACES PROVIDED	3
TOTAL SPACES PROVIDED	663

A=11°37'56"  
R=2192.00'  
L=445.02'  
CB=N47°37'23"E  
C=444.25'

**BID ALTERNATE #2 - TURF SPORTS FIELDS**

**BID ALTERNATE #1 - MEDICAL CLINIC**

**SHEET C4.3**

**SHEET C4.1**

**SHEET C4.5**

**SHEET C4.4**

**SHEET C4.2**

**SHEET C4.6**

**NEW BRAUNFELS HIGH SCHOOL PHASE 1  
FOR NEW BRAUNFELS, I.S.D.  
NEW BRAUNFELS, TEXAS**

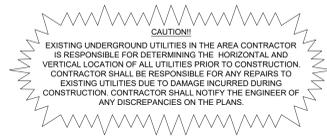
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**OVERALL DIMENSION CONTROL PLAN**

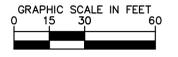
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Job No. 01935-02-01	Sheet No. C4.0
Drawn By: RAU	
Date: 12/21/2023	



**BENCHMARK LIST**

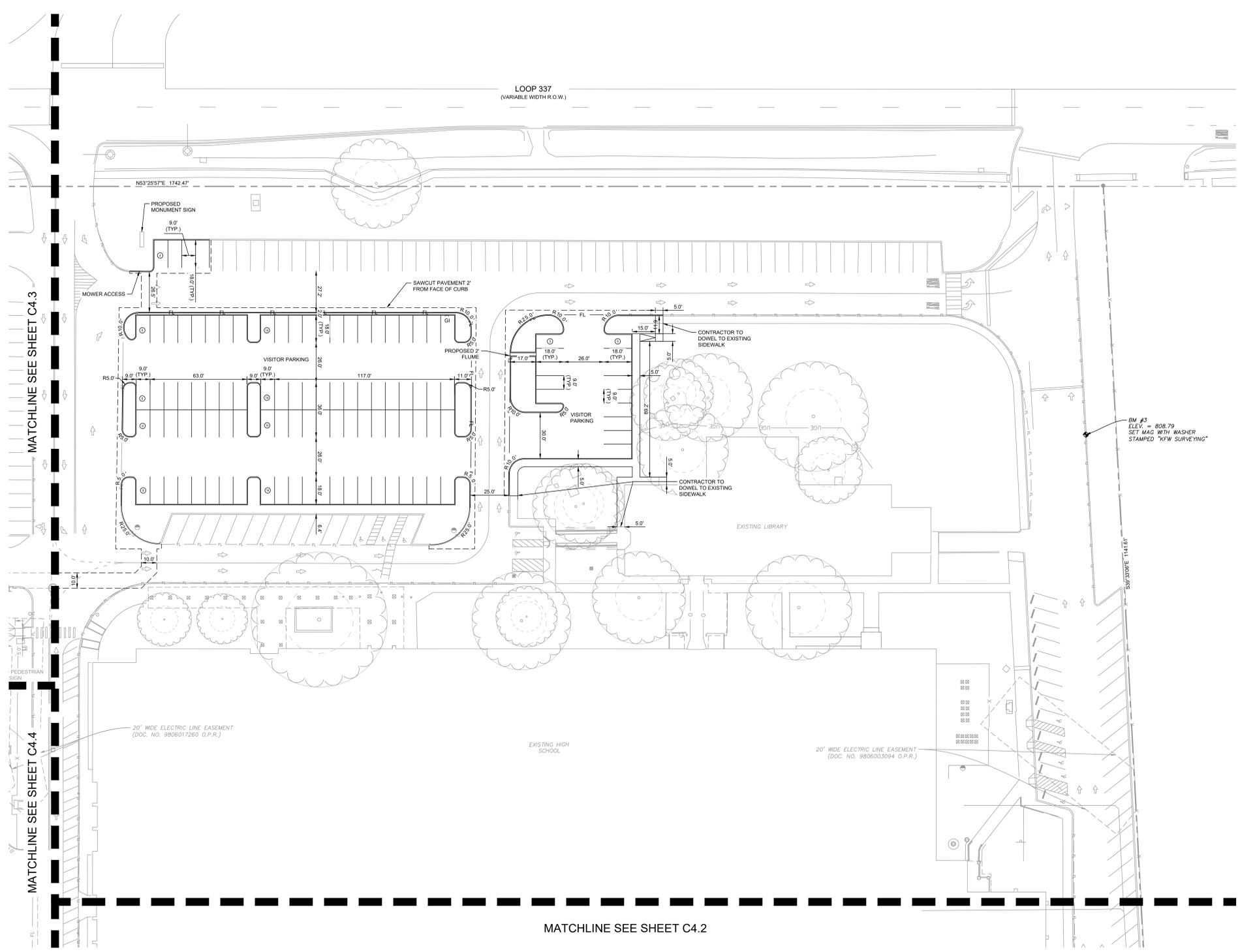
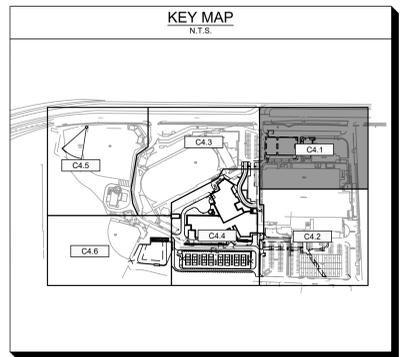
BM #2 ELEVATION: 826.52' SET MAG WITH WASHES STAMPED "KFW SURVEYING"
BM #3 ELEVATION: 808.72' SET MAG WITH WASHES STAMPED "KFW SURVEYING"

**CAUTION!**  
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LEGEND	
	PROPERTY BOUNDARY
	PROPOSED SAWCUT LINE
	PROPOSED FIRE LANE
	PROPOSED GUARD RAIL
	PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL)
	PROPOSED BUILDING CANOPY
	PROPOSED PARKING COUNT
	PROPOSED ACCESSIBLE PARKING SPACE
	PROPOSED BARRIER FREE RAMP
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED CURB INLET
	PROPOSED FIRE HYDRANT
	PROPOSED POWER POLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING POWER POLE

- NOTES**
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  6. MOWER ACCESS CONSISTS OF 6' OF LAY DOWN CURB WITH 2' TRANSITION ON EACH SIDE.
  7. PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.



MATCHLINE SEE SHEET C4.3

MATCHLINE SEE SHEET C4.4

MATCHLINE SEE SHEET C4.2

REVISION DATE

NEW BRAUNFELS HIGH SCHOOL PHASE 1  
FOR NEW BRAUNFELS, I.S.D.  
NEW BRAUNFELS, TEXAS

Project:

**Kimley»Horn**  
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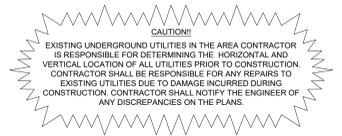
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**DIMENSION CONTROL PLAN (1 OF 6)**

PACKAGE	VOLUME
Job No. 01935-02-01	Sheet No. C4.1
Drawn By: RAU	
Date: 02/21/2023	

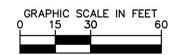
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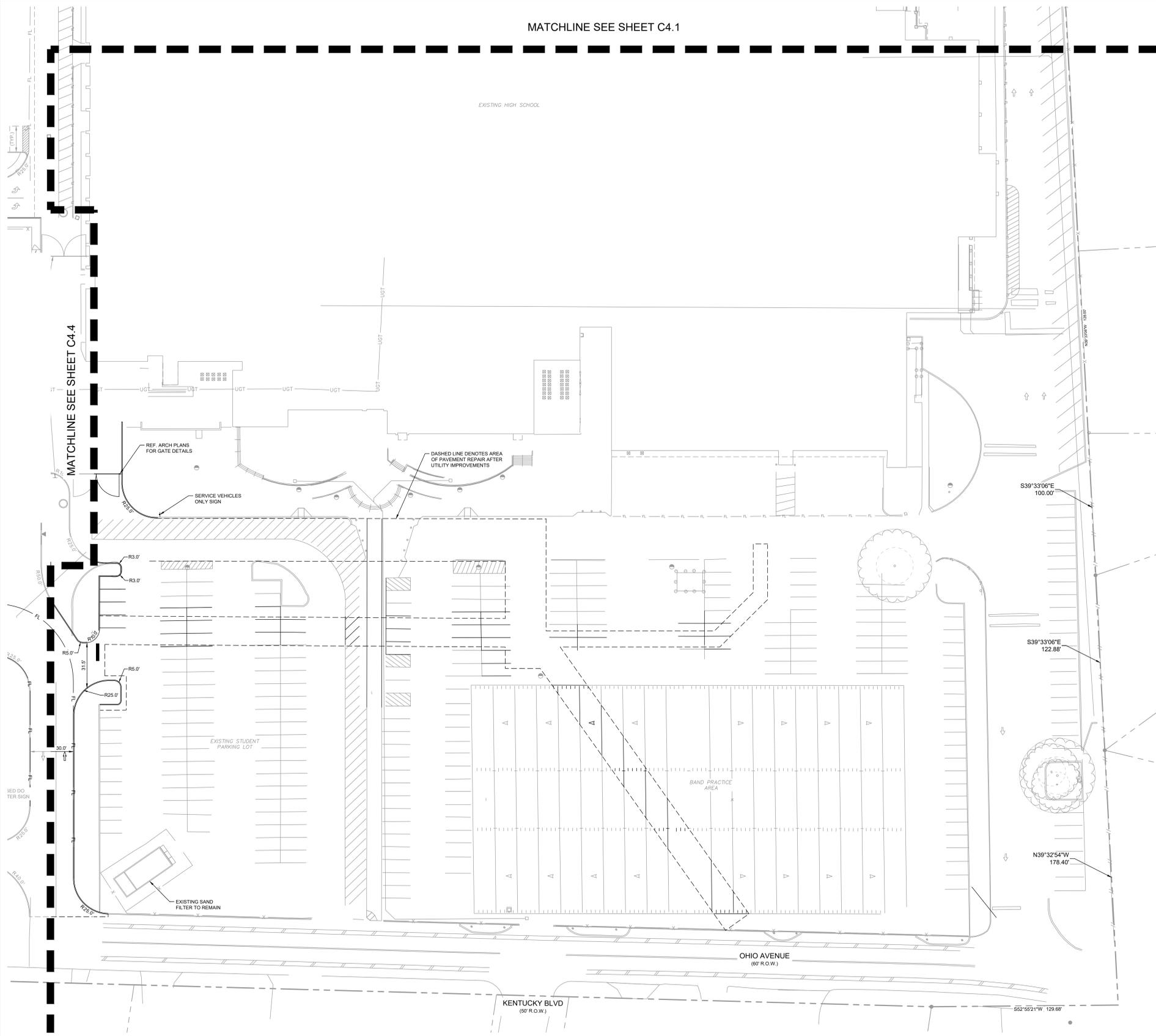
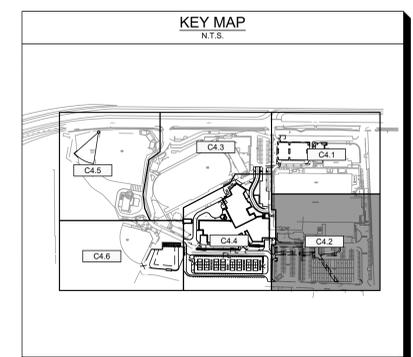
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MATCHLINE SEE SHEET C4.1



LEGEND	
	PROPERTY BOUNDARY
	PROPOSED SAWCUT LINE
	PROPOSED FIRE LANE
	PROPOSED GUARD RAIL
	PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL)
	PROPOSED PARKING COUNT
	PROPOSED ACCESSIBLE PARKING SPACE
	PROPOSED BARRIER FREE RAMP
	PROPOSED SANITARY SEWER MANHOLE
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	PROPOSED FIRE HYDRANT
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6.	MOWER ACCESS CONSISTS OF 6' OF LAY DOWN CURB WITH 2' TRANSITION ON EACH SIDE.
7.	PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.



REVISION DATE

NEW BRAUNFELS HIGH SCHOOL PHASE 1 FOR NEW BRAUNFELS, I.S.D. NEW BRAUNFELS, TEXAS

Project:

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 SAN ANTONIO, TX 78248  
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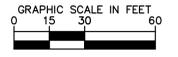
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BENCHMARK LIST	
BM #2	ELEVATION: 826.52' SET MAG WITH WASHNER STAMPED "KFW SURVEYING"
BM #3	ELEVATION: 808.72' SET MAG WITH WASHNER STAMPED "KFW SURVEYING"

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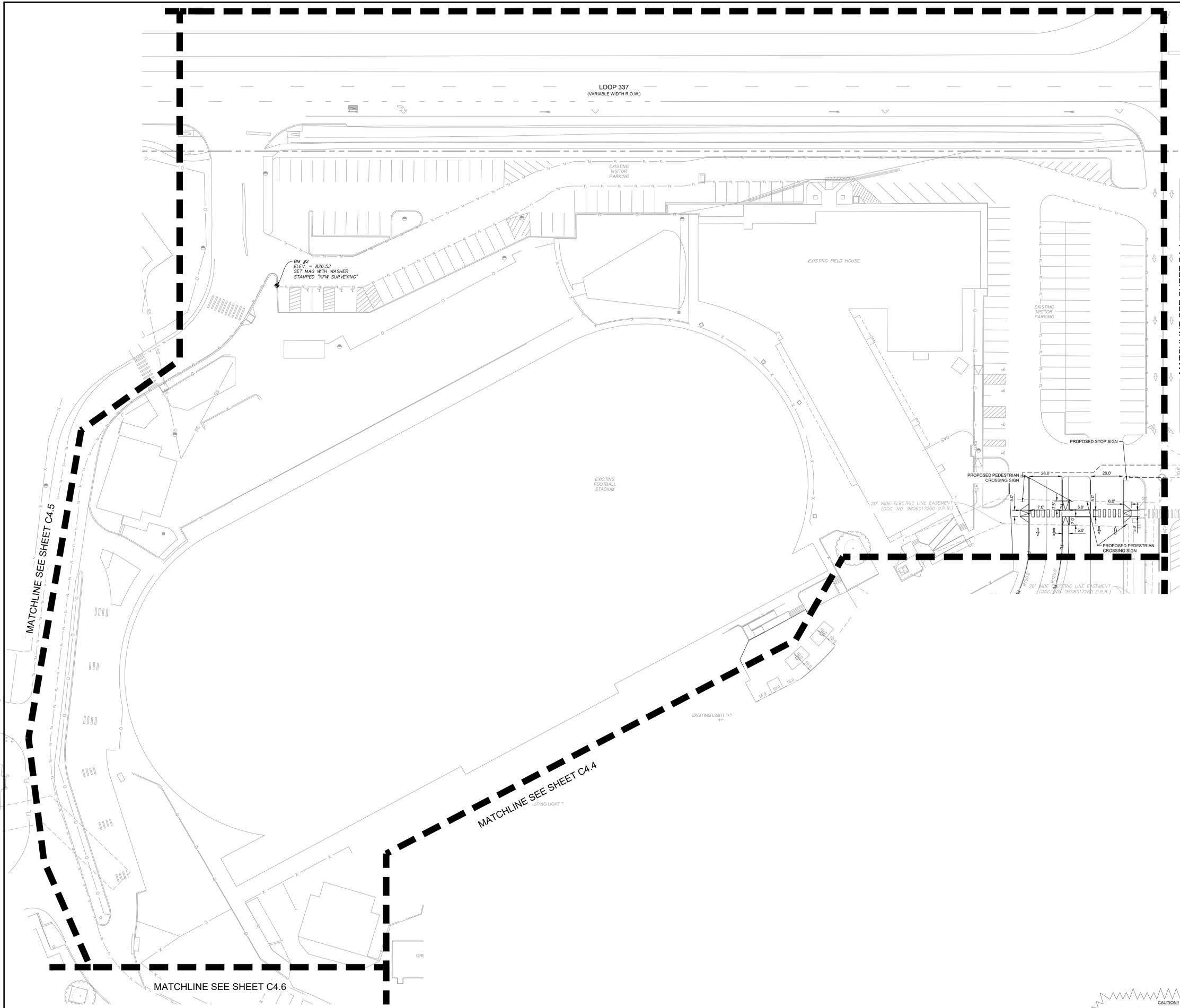
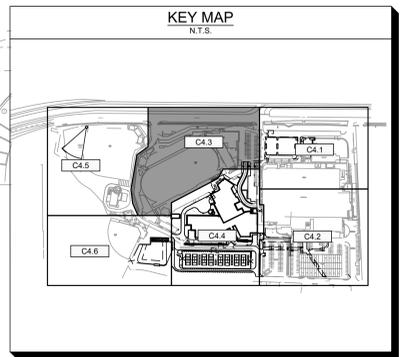


DIMENSION CONTROL PLAN (2 OF 6)	
PACKAGE	VOLUME
Job No. 019355-02-01	Sheet No. C4.2
Drawn By: RAU	
Date: 10/21/2023	



LEGEND	
	PROPERTY BOUNDARY
	PROPOSED SAWCUT LINE
	PROPOSED FIRE LANE
	PROPOSED GUARD RAIL
	PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL)
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MATCHLINE SEE SHEET C4.1

MATCHLINE SEE SHEET C4.5

MATCHLINE SEE SHEET C4.4

MATCHLINE SEE SHEET C4.6

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BM #3 ELEVATION: 808.72' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

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

REVISION

DATE

Project:  
**NEW BRAUNFELS HIGH SCHOOL PHASE 1  
FOR NEW BRAUNFELS I.S.D.  
NEW BRAUNFELS, TEXAS**

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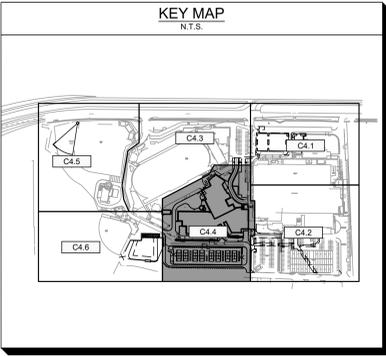
**DIMENSION CONTROL PLAN (3 OF 6)**

PACKAGE	VOLUME
Job No. 01935-02-01	Sheet No. C4.3
Drawn By: RAU	Date: 02/21/2023



LEGEND	
	PROPERTY BOUNDARY
	PROPOSED SAWCUT LINE
	PROPOSED FIRE LANE
	PROPOSED GUARD RAIL
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REVISION DATE

NEW BRAUNFELS HIGH SCHOOL PHASE 1  
FOR NEW BRAUNFELS I.S.D.  
NEW BRAUNFELS, TEXAS

Project:

**Kimley»Horn**  
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**DIMENSION CONTROL PLAN (4 OF 6)**

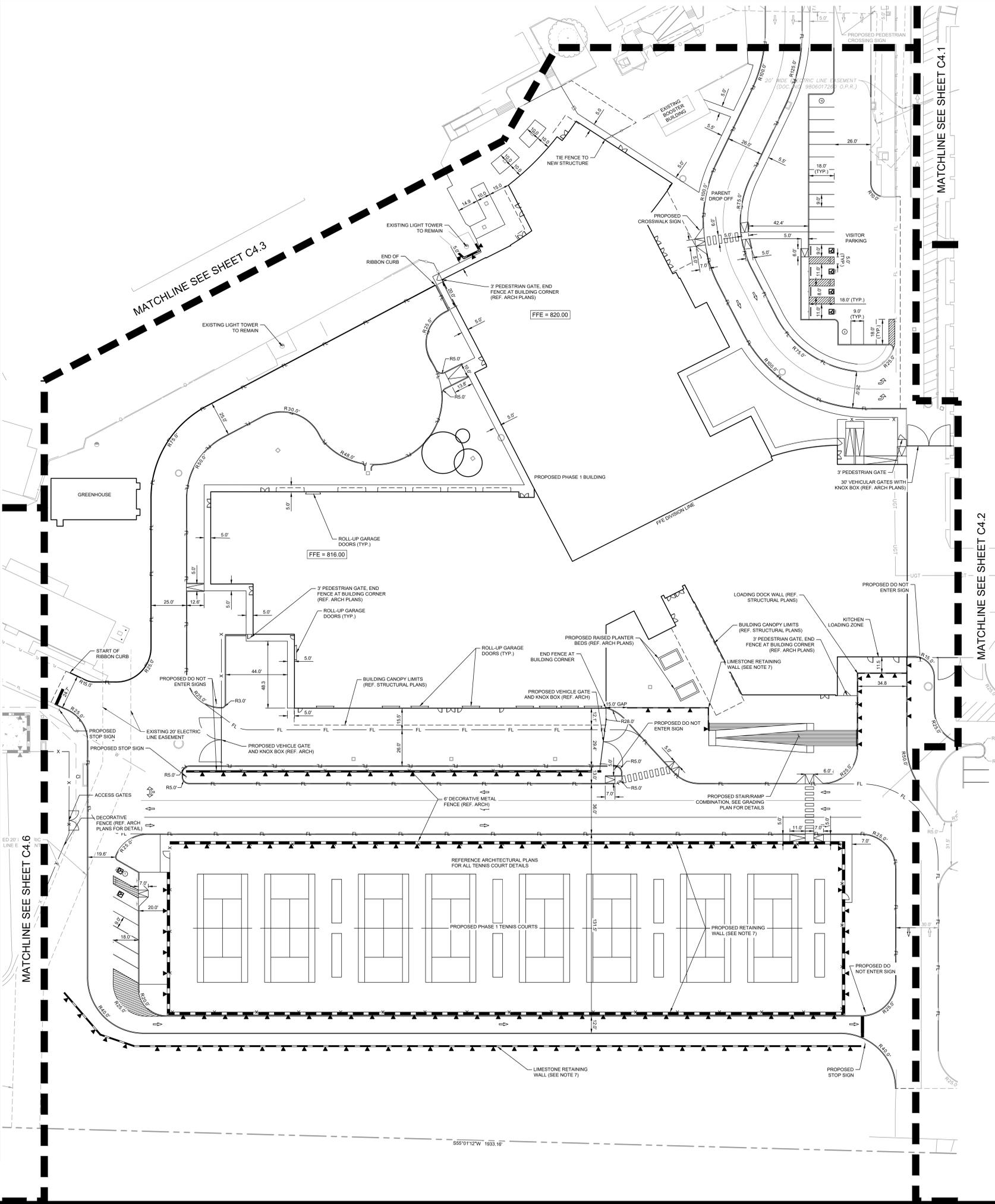
PACKAGE VOLUME  
Job No. 01935-02-01 Sheet No.  
Drawn By: RALU  
Date: 02/21/2023

**BENCHMARK LIST**

BM #2	ELEVATION: 826.52'
	SET MAG WITH WASHER
	STAMPED "KFW SURVEYING"
BM #3	ELEVATION: 808.72'
	SET MAG WITH WASHER
	STAMPED "KFW SURVEYING"



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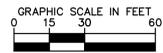
MATCHLINE SEE SHEET C4.3

MATCHLINE SEE SHEET C4.1

MATCHLINE SEE SHEET C4.2

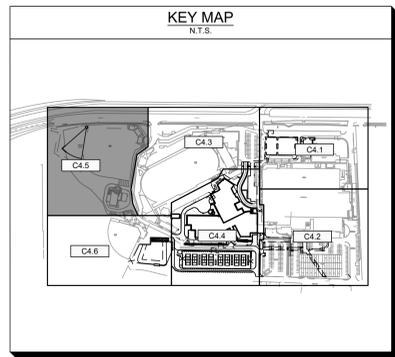
MATCHLINE SEE SHEET C4.6

S55°01'12"W 1933.16'



LEGEND	
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	PROPOSED SAWCUT LINE
	PROPOSED FIRE LANE
	PROPOSED GUARD RAIL
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  4. BUILDING, MECHANICAL EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND DIMENSIONS.
  5. ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH CITY OF NEW BRAUNFELS STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED.
  6. MOWER ACCESS CONSISTS OF 6' OF LAY DOWN CURB WITH 2' TRANSITION ON EACH SIDE.
  7. PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.



$\Delta=11^{\circ}37'56''$   
 $R=2192.00'$   
 $L=445.02'$   
 $CB=N47^{\circ}37'23''E$   
 $C=444.25'$

LOOP 337  
(VARIABLE WIDTH R.O.W.)

DISCUS RING (REF. ARCH PLANS)

DISCUS THROW FIELD

EXISTING BASEBALL FIELD

20' WIDE ELECTRIC LINE EASEMENT  
(DOC. NO. 200206015115 O.P.R.)

MATCHLINE SEE SHEET C4.3

MATCHLINE SEE SHEET C4.6

**CAUTION!**  
 EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

**BENCHMARK LIST**

BM #2	ELEVATION: 826.52'
SET MAG WITH WASHER	
STAMPED "KFW SURVEYING"	
BM #3	ELEVATION: 828.72'
SET MAG WITH WASHER	
STAMPED "KFW SURVEYING"	

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

REVISION

DATE

Project:  
**NEW BRAUNFELS HIGH SCHOOL PHASE 1  
 FOR NEW BRAUNFELS I.S.D.  
 NEW BRAUNFELS, TEXAS**

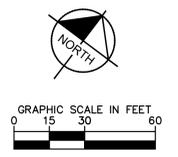
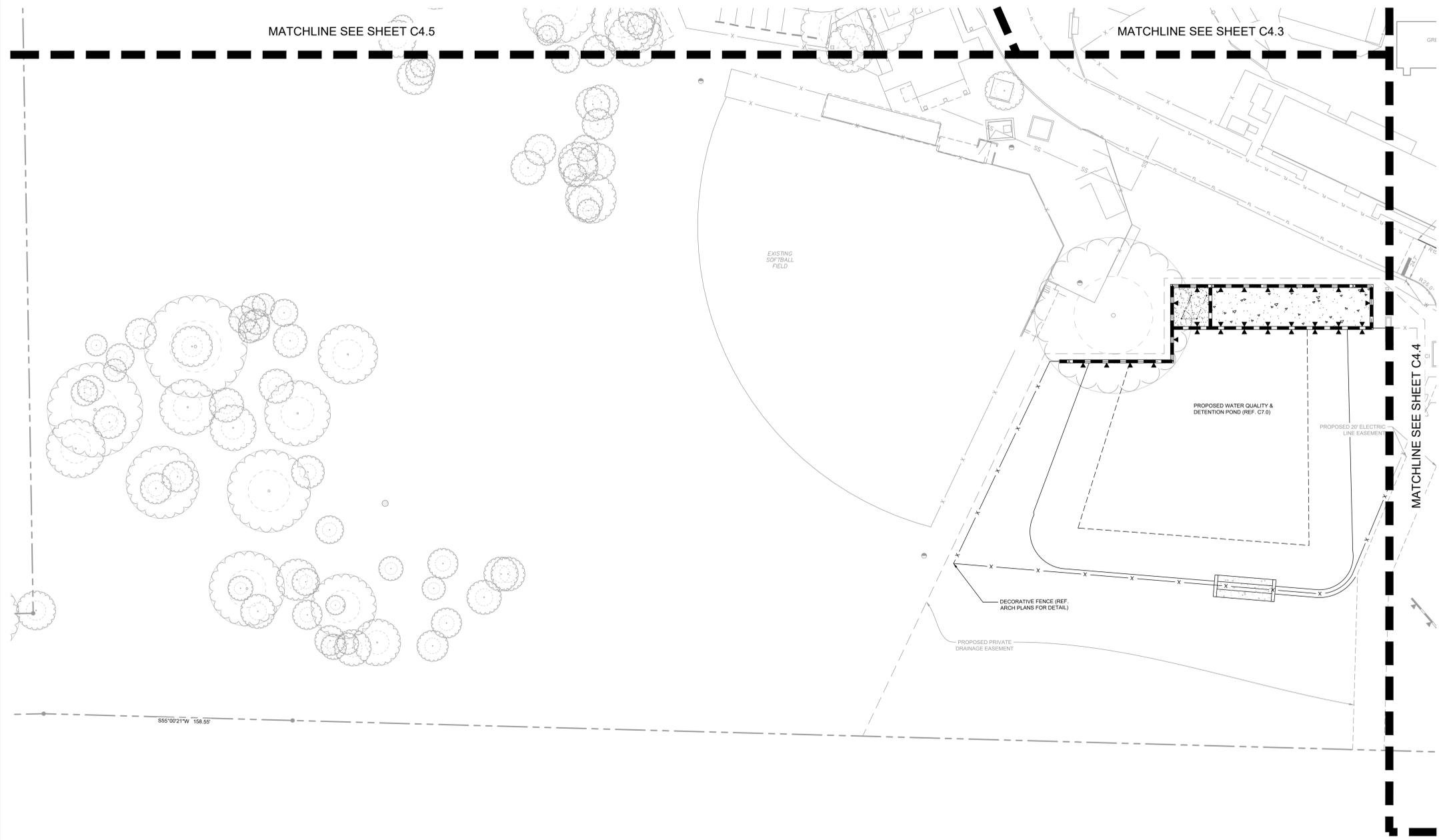
**Kimley»Horn**  
 © 2023 KIMLEY-HORN AND ASSOCIATES, INC.  
 1901 REYNOLDS PLACE, SUITE 400  
 SAN ANTONIO, TX 78208  
 PHONE: 781.451.9188 FAX: 781.451.9888  
 WWW.KIMLEY-HORN.COM TELE: FIRM NO. 028



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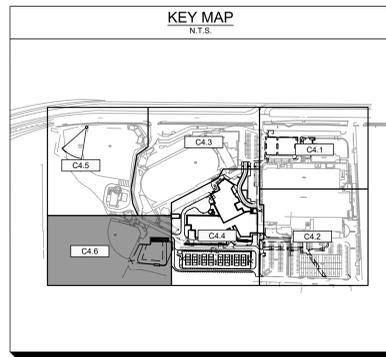
**DIMENSION CONTROL PLAN (5 OF 6)**

PACKAGE	VOLUME
Job No. 01935-02-01	Sheet No. C4.5
Drawn By: RAU	
Date: 02/12/2023	



LEGEND	
	PROPERTY BOUNDARY
	PROPOSED SAWCUT LINE
	PROPOSED FIRE LANE
	PROPOSED GUARD RAIL
	PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL)
	PROPOSED BUILDING CANOPY
	PROPOSED PARKING COUNT
	PROPOSED ACCESSIBLE PARKING SPACE
	PROPOSED BARRIER FREE RAMP
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED CURB INLET
	PROPOSED FIRE HYDRANT
	PROPOSED POWER POLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING POWER POLE

- NOTES**
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
  - REFER TO ARCHITECTURAL CONSTRUCTION DRAWINGS FOR EXACT BUILDING DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAIL OF HARDSCAPE.
  - ALL CURB RADI ARE 3 FEET UNLESS DIMENSIONED OTHERWISE.
  - BUILDING, MECHANICAL EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND DIMENSIONS.
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REVISION

DATE

NEW BRAUNFELS HIGH SCHOOL PHASE 1  
FOR NEW BRAUNFELS I.S.D.  
NEW BRAUNFELS, TEXAS

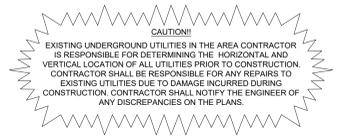
Project:

**Kimley»Horn**  
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.  
10101 REIMON PLACE, SUITE 400  
SAN ANTONIO, TX 78248  
PHONE: 214.481.9188 FAX: 214.544.4888  
WWW.KIMLEY-HORN.COM TELE: 800.451.9228



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BENCHMARK LIST	
BM #2	ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING"
BM #3	ELEVATION: 808.72' SET MAG WITH WASHER STAMPED "KFW SURVEYING"



**CAUTION!**  
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**DIMENSION CONTROL PLAN**  
(6 OF 6)

PACKAGE	VOLUME
Job No. 01935-02-01	Sheet No. C4.6
Drawn By: RALU	
Date: 02/11/2023	

# Water Pollution Abatement Plan Application

## Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), 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 **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of Customer/Agent:

  
\_\_\_\_\_

Regulated Entity Name: \_\_\_\_\_

## Regulated Entity Information

1. The type of project is:

- Residential: Number of Lots: \_\_\_\_\_
- Residential: Number of Living Unit Equivalents: \_\_\_\_\_
- Commercial
- Industrial
- Other: \_\_\_\_\_

2. Total site acreage (size of property): \_\_\_\_\_

3. Estimated projected population: \_\_\_\_\_

4. The amount and type of impervious cover expected after construction are shown below:

**Table 1 - Impervious Cover Table**

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

**Total Impervious Cover \_\_\_\_\_ ÷ Total Acreage \_\_\_\_\_ X 100 = \_\_\_\_\_% Impervious Cover**

5.  **Attachment A - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
6.  Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

***For Road Projects Only***

**Complete questions 7 - 12 if this application is exclusively for a road project.**

7. 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.
8. Type of pavement or road surface to be used:
  - Concrete
  - Asphaltic concrete pavement
  - Other: \_\_\_\_\_
9. Length of Right of Way (R.O.W.): \_\_\_\_\_ feet.  
 Width of R.O.W.: \_\_\_\_\_ feet.  
 L x W = \_\_\_\_\_ Ft<sup>2</sup> ÷ 43,560 Ft<sup>2</sup>/Acre = \_\_\_\_\_ acres.
10. Length of pavement area: \_\_\_\_\_ feet.  
 Width of pavement area: \_\_\_\_\_ feet.  
 L x W = \_\_\_\_\_ Ft<sup>2</sup> ÷ 43,560 Ft<sup>2</sup>/Acre = \_\_\_\_\_ acres.  
 Pavement area \_\_\_\_\_ acres ÷ R.O.W. area \_\_\_\_\_ acres x 100 = \_\_\_\_\_% impervious cover.
11.  A rest stop will be included in this project.  
 A rest stop will not be included in this project.

12.  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***

13.  **Attachment B - 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 the 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***

14. The character and volume of wastewater is shown below:

_____ % Domestic	_____ Gallons/day
_____ % Industrial	_____ Gallons/day
_____ % Commingled	_____ Gallons/day
TOTAL gallons/day _____	

15. Wastewater will be disposed of by:

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

**Attachment C - 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):

Private service laterals from the wastewater generating facilities will be connected to an existing SCS.

Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

The SCS was previously submitted on \_\_\_\_\_.

The SCS was submitted with this application.

The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

The sewage collection system will convey the wastewater to the \_\_\_\_\_ (name) Treatment Plant. The treatment facility is: N. Kuehler WWTP

Existing.

Proposed.

16.  All private service laterals will be inspected as required in 30 TAC §213.5.

## **Site Plan Requirements**

**Items 17 – 28 must be included on the Site Plan.**

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

Site Plan Scale: 1" = \_\_\_\_\_'.

18. 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): \_\_\_\_\_

19.  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, open space, etc. are shown on the plan.

The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

There are \_\_\_\_\_ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

The wells are not in use and have been properly abandoned.

The wells are not in use and will be properly abandoned.

The wells are in use and comply with 16 TAC §76.

There are no wells or test holes of any kind known to exist on the project site.

21. Geologic or manmade features which are on the site:

All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

No sensitive geologic or manmade features were identified in the Geologic Assessment.

**Attachment D - Exception to the Required Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.

- 22.  The drainage patterns and approximate slopes anticipated after major grading activities.
- 23.  Areas of soil disturbance and areas which will not be disturbed.
- 24.  Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25.  Locations where soil stabilization practices are expected to occur.
- 26.  Surface waters (including wetlands).  
 N/A
- 27.  Locations where stormwater discharges to surface water or sensitive features are to occur.  
 There will be no discharges to surface water or sensitive features.
- 28.  Legal boundaries of the site are shown.

### ***Administrative Information***

- 29.  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.
- 30.  Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

## **Attachment A – Factors Affecting Surface Water Quality**

Factors that could affect the quality of the water discharges for ultimate land use are:

- Oil, grease, and fuel from vehicle drippings;
- Dirt from vehicles;
- Trash and litter;
- Hydrocarbons from asphalt paving operations.

## **Attachment B – Volume and Character of Stormwater**

While the impervious cover on the site increases, a detention pond has been designed to reduce the peak flows from the site to below the existing conditions at the time of construction. The weighted curve number for the proposed improvements would be 94.5 after development. The curve number was obtained from the City of New Braunfels Drainage and Erosion Control Design manual.

# 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.**

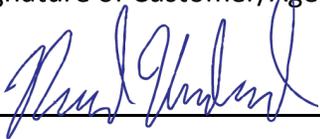
## Signature

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: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of Customer/Agent:

  
\_\_\_\_\_

Regulated Entity Name: \_\_\_\_\_

## 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: \_\_\_\_\_

### ***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.

## **ATTACHMENT A – Spill Report Actions**

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

### **Education**

- (1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a “significant spill” is for each material they use, and what is the appropriate response for “significant” and “insignificant” spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.
- (2) Educate employees and subcontractors on potential danger to humans and the environment from spills and leaks.
- (3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- (4) Establish a continuing education program to indoctrinate new employees.
- (5) Have contractor’s superintendent or representative oversee and enforce proper spill prevention and control measures.

### **General Measures**

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) Spills should be covered and protected from stormwater run-on during rainfall to the extent that it doesn’t compromise cleanup activities.
- (7) Do not bury or wash spills with water.
- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.

- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, cover, and liners should be repaired or replaced as needed to maintain proper function.

### **Cleanup**

- (1) Clean up leaks and spills immediately.
- (2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- (3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

### **Minor Spills**

- (1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- (2) Use absorbent materials on small spills rather than hosing down or burying the spill.
- (3) Absorbent materials should be promptly removed and disposed of properly.
- (4) Follow the practice below for a minor spill:
- (5) Contain the spread of the spill.
- (6) Recover spilled materials.
- (7) Clean the contaminated area and properly dispose of contaminated materials.

**Semi-Significant Spills** – can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities. Spills should be cleaned up immediately:

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

### **Significant/Hazardous Spills**

For significant or hazardous spills that are in reportable quantities:

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

## **ATTACHMENT B – Potential Sources of Contamination**

Sources of contamination during construction that could potentially affect surface and groundwater quality are as follows:

Potential Source	Preventative Measure
Asphalt Products used on this project	After placement of Asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur. The Contractor will be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain event.
Oil, grease, fuel and Hydraulic fluid drippings	Vehicle maintenance when possible will be performed within the construction staging area.
Miscellaneous trash and litter	Trash containers will be placed throughout the site to encourage proper trash disposal.
Construction Debris	Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addresses on a case-by-case basis

## **ATTACHMENT C – Sequence of Major Events**

The installation of erosion and sedimentation controls shall occur prior to any excavation of materials or major disturbances on the site.

The sequence of major construction activities will be as follows. Approximate acreage to be disturbed is listed in parentheses next to each activity.

1. Install all temporary erosion controls. (2.50 acres)
2. Clear and grub strip topsoil. (2.50 acres)
3. Grading (No additional area will be disturbed by this activity)
4. Rough Cut Drive Aisles and building pads (No additional area will be disturbed by this activity)
5. Install wet/dry utilities (No additional area will be disturbed by this activity)
6. Install paving improvements (No additional area will be disturbed by this activity)
7. Complete restoration of site vegetation. (No additional area will be disturbed by this activity)
8. Remove and dispose of temporary erosion controls when restoration has been accepted.

Maximum total construction time is not expected to exceed 12 months.

## **ATTACHMENT D – Temporary Best Management Practices and Measures**

Also refer to the TCEQ Site Plan for details of TBMP's.

Silt fencing will be installed prior to the commencement of construction to prohibit runoff of sediment. The silt fence shall be placed perpendicular to direction of flow, where feasible, to maximize efficiency. If there are any, potentially sensitive features, a silt fence will surround the site as specified by TCEQ Guidance Manual Chapter 5.

Bagged gravel inlet filters will be used and maintained in a condition to prevent runoff of sediment from flowing into drains during construction.

Stabilized construction entrance will be installed prior to the commencement of construction and will be used and maintained in a condition that will prevent tracking or flowing of sediment onto public roadway.

a.) Silt fence will not be placed on the upstream side of the site because there will be no stormwater that originates upgradient of the site. All upgradient stormwater is captured in onsite storm water system that discharges to an existing 24" stub. All storm water is discharged to an existing 5'X3' SBC.

b.) Silt fencing and bagged gravel inlet filters will be used on-site to filter out pollutants and restrict sediment from leaving the site. Silt fencing will be placed in existing and proposed channels and downstream of flow on site. Bagged gravel inlet filters will be placed around proposed inlets to capture any suspended solids.

c.) Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. Silt Fencing, bagged gravel inlet filters and construction entrance measures prevent sediment and pollution by filtering and routing water. These filtered pollutants are then removed and prevented from entering surface streams, sensitive features, or the aquifer.

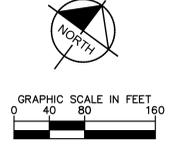
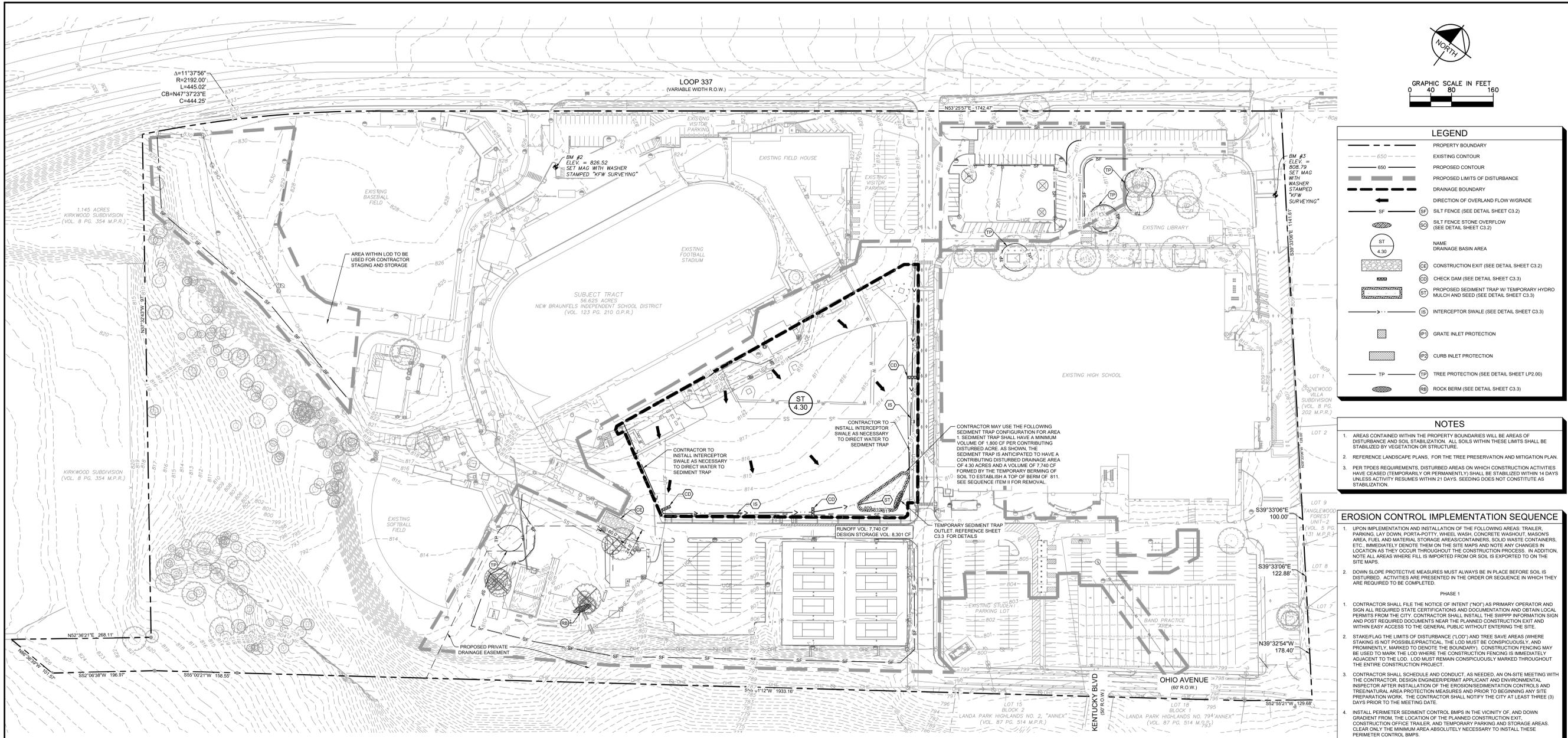
d.) BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMP's. Silt fencing and bagged gravel inlet filters will be placed to intercept and detain water with sediment or pollution from entering or leaving the site to any unprotected areas. The BMP's will filter out sediment and pollution while allowing filtered water to flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

## **Vehicle and Equipment Maintenance**

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

## **Vehicle and Equipment Fueling**

- (1) If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- (2) Discourage "topping off" of fuel tanks.
- (3) Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.



A=11°37'56"  
R=2192.00'  
L=445.02'  
CB=147°37'23"E  
C=444.25'

LOOP 337  
(VARIABLE WIDTH R.O.W.)

**LEGEND**

- PROPERTY BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED LIMITS OF DISTURBANCE
- DRAINAGE BOUNDARY
- DIRECTION OF OVERLAND FLOW WIGRADE
- SILT FENCE (SEE DETAIL SHEET C3.2)
- SILT FENCE STONE OVERFLOW (SEE DETAIL SHEET C3.2)
- NAME DRAINAGE BASIN AREA
- CONSTRUCTION EXIT (SEE DETAIL SHEET C3.2)
- CHECK DAM (SEE DETAIL SHEET C3.3)
- PROPOSED SEDIMENT TRAP W/ TEMPORARY HYDRO MULCH AND SEED (SEE DETAIL SHEET C3.3)
- INTERCEPTOR SWALE (SEE DETAIL SHEET C3.3)
- GRATE INLET PROTECTION
- CURB INLET PROTECTION
- TREE PROTECTION (SEE DETAIL SHEET LP2.00)
- ROCK BERM (SEE DETAIL SHEET C3.3)

- NOTES**
- AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE STABILIZED BY VEGETATION OR STRUCTURE.
  - REFERENCE LANDSCAPE PLANS, FOR THE TREE PRESERVATION AND MITIGATION PLAN.
  - PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.

- EROSION CONTROL IMPLEMENTATION SEQUENCE**
- UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, MASSES AREA, FUEL AND MATERIAL STORAGE AREAS/CONTAINERS, SOLID WASTE CONTAINERS, ETC. IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ALL AREAS WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.
  - DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED. ACTIVITIES ARE PRESENTED IN THE ORDER OR SEQUENCE IN WHICH THEY ARE REQUIRED TO BE COMPLETED.
- PHASE 1**
- CONTRACTOR SHALL FILE THE NOTICE OF INTENT (NOI) AS PRIMARY OPERATOR AND SIGN ALL REQUIRED STATE CERTIFICATIONS AND OBTAIN LOCAL PERMITS FROM THE CITY. CONTRACTOR SHALL INSTALL THE SWPPP INFORMATION SIGN AND POST REQUIRED DANGER PLANNED CONSTRUCTION EXIT AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE.
  - STAKEFLAG THE LIMITS OF DISTURBANCE (LOD) AND TREE SAVE AREAS (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY AND PERMANENTLY MARKED TO DENOTE THE BOUNDARY). CONSTRUCTION FENCING MAY BE USED TO MARK THE LOD WHERE THE CONSTRUCTION FENCING IS IMMEDIATELY ADJACENT TO THE LOD. LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT.
  - CONTRACTOR SHALL SCHEDULE AND CONDUCT, AS NEEDED, AN ON-SITE MEETING WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSTRUCTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROL STRUCTURES AND TREENATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.
  - INSTALL PERIMETER SEDIMENT CONTROL BMPs IN THE VICINITY OF, AND DOWN GRADIENT FROM, THE LOCATION OF THE PLANNED CONSTRUCTION EXIT, CONSTRUCTION OFFICE TRAILER, AND TEMPORARY PARKING AND STORAGE AREAS. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPs.
  - INSTALL STABILIZED CONSTRUCTION EXIT AND SET THE PROJECT OFFICE TRAILER.
  - INSTALL REMAINING PERIMETER SEDIMENT CONTROL BMPs INCLUDING CONSTRUCTION FENCING, PERIMETER SILT FENCE, STONE OVERFLOWS, INLET PROTECTION, ETC. AS SHOWN ON THE SITE MAPS. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL PERIMETER CONTROL BMPs.
  - PREPARE TEMPORARY PARKING AND STORAGE AREA.
  - GENERAL CONTRACTOR, AS REQUIRED, SHALL SCHEDULE AND CONDUCT THE STORMWATER PRE-CONSTRUCTION MEETING WITH THE CEC, OWNER'S CONSTRUCTION MANAGER, AGENCY(IES) AND SUBCONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
  - CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY FOR SPOIL FROM THESE REQUIRED STRUCTURAL SEDIMENT CONTROL BMPs.
  - CONSTRUCT AND STABILIZE THE SEDIMENT TRAP WITH APPROPRIATE OUTFALL STRUCTURES (TEMPORARY OR PERMANENT) AS SPECIFIED ON THE SITE MAPS. CONTRACTOR SHALL FOLLOW THE BUILDING PAD FOUNDATION PREPARATION, PER THE GEOTECHNICAL REPORT, AS IT PERTAINS TO THE EARTHWORK FOR THE BUILDING PAD.
  - SEDIMENT TRAP CAN BE REMOVED ONCE THE AREAS UPSTREAM HAVE BEEN STABILIZED AND/OR REDIRECTED TO AN APPROPRIATELY SIZED EROSION CONTROL DEVICE. PRIOR TO REMOVING, ALL SEDIMENT FROM THE TRAP SHALL BE REMOVED AND DISPOSED OFF-SITE. TRAP SHALL BE BACKFILLED MEETING THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
  - STABILIZE SIDE SLOPES, BOTTOM AND ALL SIDES OF EMBANKMENTS OR SLOPES OF THE SEDIMENT BASINS AND TRAPS IMMEDIATELY UPON COMPLETION, AS SPECIFIED IN THE SWPPP.
  - INSTALL HYDRAULIC CONTROL STRUCTURES (DIVERSION DIKES, DIVERSION SWALES, CHECK DAMS, ETC.) AS SPECIFIED ON THE SITE MAPS.
  - STABILIZE SIDE SLOPES AND FLOW LINE OF HYDRAULIC CONTROL STRUCTURES (DIVERSION DIKES AND SWALES) WITH SEED, FERTILIZER AND ROLLED EROSION CONTROL PRODUCTS OR OTHER EROSION RESISTANT LINING, AS SPECIFIED IN THE SWPPP.
- PHASE 2 SEQUENCE CONTINUED ON SHEET C3.1**

**SITE DATA**

TOTAL LOT AREA	51.20 AC	2,230,429 SF
TOTAL AREA DISTURBED	16.71 AC	727,688 SF
PAVED AREA	23.29 AC	1,014,826 SF
ROOFED AREA	2.88 AC	116,666 SF
NEW LANDSCAPED AREA	0.97 AC	42,241 SF

\* DOES NOT INCLUDE ANY OFF-SITE DISPOSAL OR BORROW AREAS - CONTRACTOR TO UPDATE AS NECESSARY DURING CONSTRUCTION.

\* NO SINGLE DRAINAGE AREA EXCEEDS 10 ACRES, THEREFORE SEDIMENTATION BASIN IS NOT REQUIRED.

**BENCHMARK LIST**

BM #2	ELEVATION: 826.52'
	SET MAG WITH WASHER
	STAMPED "KFW SURVEYING"
BM #3	ELEVATION: 808.72'
	SET MAG WITH WASHER
	STAMPED "KFW SURVEYING"

**CAUTION!**

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

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

DATE

REVISION

Project:

NEW BRAUNFELS HIGH SCHOOL PHASE 1 FOR NEW BRAUNFELS I.S.D. NEW BRAUNFELS, TEXAS

Project:

Project:

Project:

Project:

Project:

Project:

Project:

**Kimley-Horn**

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10901 REYNOLDS PLACE, SUITE 400  
SAN ANTONIO, TX 78218  
PHONE: 781-451-9888 FAX: 781-451-9889  
WWW.KIMLEY-HORN.COM TEPF: FIRM NO. 028

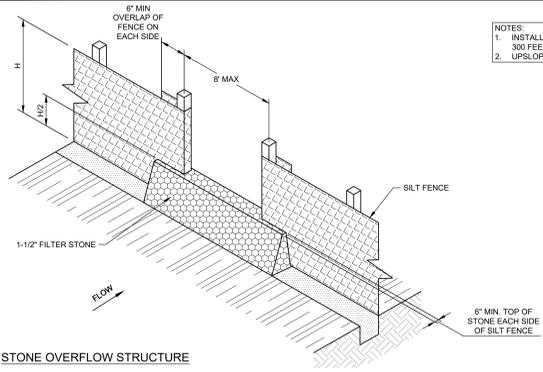


**Huckabee**

4051 N. DALY - 1001 WOODHILL - HOUSTON - TX 77055  
www.huckabee-inc.com  
800.687.1279

**EROSION CONTROL PLAN PHASE 1**

PACKAGE	VOLUME
Job No. 01935-02-01	Sheet No.
Drawn By:	C3.0
Date: 02/21/2023	



- NOTES:
1. INSTALL STONE OVERFLOW STRUCTURES AT ALL LOW POINTS AND EVERY 300 FEET WHERE NO LOW POINT IS APPARENT.
  2. UPSLOPE LENGTHS OF SILT FENCE SHALL BE A MINIMUM OF 10 FEET.

SO STONE OVERFLOW STRUCTURE  
D1 SILT FENCE / STONE OVERFLOW STRUCTURE DETAIL

SITE MAP - GENERAL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION AND REMOVAL DATES FOR EACH BMP EMPLOYED, WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT DIRECTLY ON THE SITE MAP.
3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMPs SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMPs SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
5. BMPs HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE, SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

TEMPORARY EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.
5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

PERMANENT EROSION CONTROL NOTES

- ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
- A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK) AND BETWEEN THE CURB AND THE RIGHT-OF-WAY LINE.
  - B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:
- BROADCAST SEEDING:
1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SQUARE FEET OF UNHILLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 80% GERMINATION.
  2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HILLED BERMUDA AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION.
- A. FERTILIZER SHALL BE A PELLETTED OR GRANULAR SLOW RELEASE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT THE RATE OF 1 POUND PER 1000 SQUARE FEET.
  - B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET.
- HYDRAULIC SEEDING:
1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000 SQUARE FEET OF UNHILLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 80% GERMINATION.
  2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HILLED BERMUDA AT A RATE OF 1 POUND PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION.
- A. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT THE RATE OF 15 POUNDS PER 1000 SQUARE FEET.
  - B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 14 POUNDS PER 1000 SQUARE FEET.
  - C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.
  - D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 FEET HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
  - E. WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL.

SITE MAPS - SITE SPECIFIC NOTES

1. CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
2. THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:
  - A. CLEARING AND GRUBBING
  - B. PRELIMINARY GRADING
  - C. UTILITY INSTALLATION
  - D. PAVEMENT CONSTRUCTION
  - E. BUILDING CONSTRUCTION
  - F. FINAL GRADING AND STABILIZATION
3. THE SUBSURFACE CONDITIONS ON-SITE CONSIST GENERALLY OF BROWN CLAYS, REDDISH CLAYS, TAN CLAYS, CLAYEY SAND, TAN SAND, AND TAN LIMESTONE. PER REPORT NO. AN-20-03-00, PREPARED BY RASA KISTNER, INC. ON JANUARY 24, 2023.
4. STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND UNDERGROUND PIPE.
5. POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.
6. VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.
7. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TIDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE FACILITIES.
8. ACCORDING TO COMMUNITY PANEL NO. 48091C435F, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UNSHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD AREA".
9. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMPs FOR ANY OFF-SITE MATERIAL WASTE, BOROVR OR EQUIPMENT STORAGE AREAS.
10. CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.

ISWM Technical Manual Construction Controls

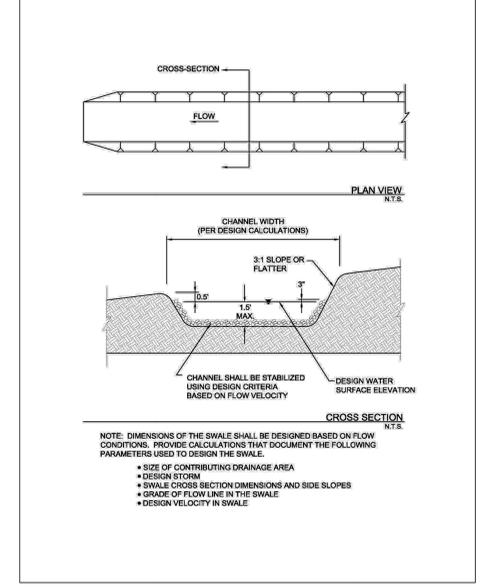
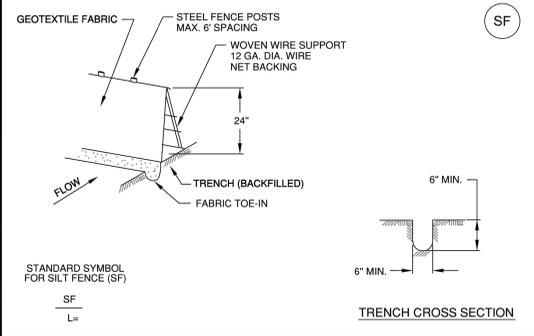


Figure 2.11 Schematics of Interceptor Swale

IS Interceptor Swale April 2010, Revised 9/2014 CC-35



- NOTES:
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1".
  2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CAN NOT BE TRENCHED INTO THE SURFACE (E.G. PAVEMENT), THE FABRIC FLAP SHALL BE WEIGHTED DOWN WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
  3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
  4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.
  5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
  7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

NBU NEW BRAUNFELS UTILITIES WATER SYSTEMS ENGINEERING  
STANDARD DRAWING: SILT FENCE  
DATE: 4-29-03 SCALE: N.T.S. SHEET: 1 OF 1 DRAWING NO: 501

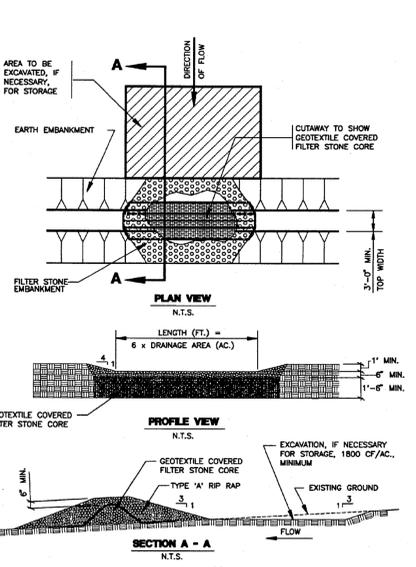


Figure 1-40 Schematic Diagram of a Sediment Trap (NCTCOG, 1993)

ST 1-103

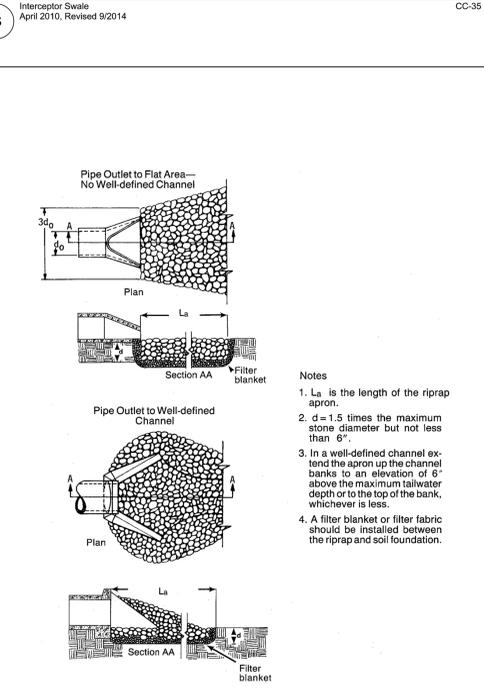
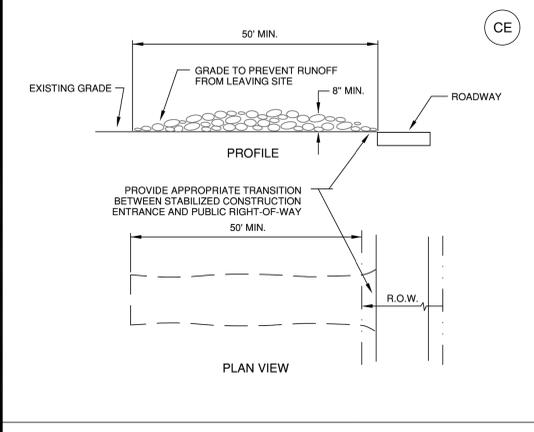


Figure 1-11 Riprap Outlet Design (North Carolina, 1993)

RR 1-24



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

NBU NEW BRAUNFELS UTILITIES WATER SYSTEMS ENGINEERING  
STANDARD DRAWING: STABILIZED CONSTRUCTION ENTRANCE  
DATE: 4-30-03 SCALE: N.T.S. SHEET: 1 OF 1 DRAWING NO: 506

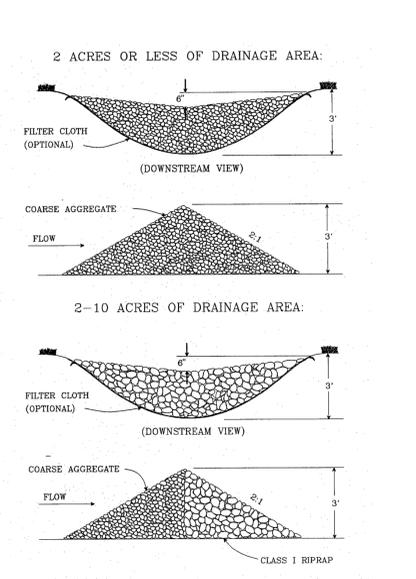


Figure 1-31 Diagram of a Rock Check Dam (VA Dept. of Conservation, 1992)

CD 1-83

DATE

REVISION

NEW BRAUNFELS HIGH SCHOOL PHASE 1 FOR NEW BRAUNFELS I.S.D. NEW BRAUNFELS, TEXAS

Project:

Kimley-Horn

STATE OF TEXAS  
COUNTY OF BRAUNFELS  
REGISTERED PROFESSIONAL ENGINEER  
No. 12574  
Date: 12/12/2023

Huckabee  
4051 N. DALSH • 10201 WOODHILL • HOUSTON • TX 77060  
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800.687.1279

EROSION CONTROL DETAILS (1 OF 2)

PACKAGE VOLUME  
Job No. 01935-02-01 Sheet No.  
Drawn By: C3.2  
Date: 03/20/2023

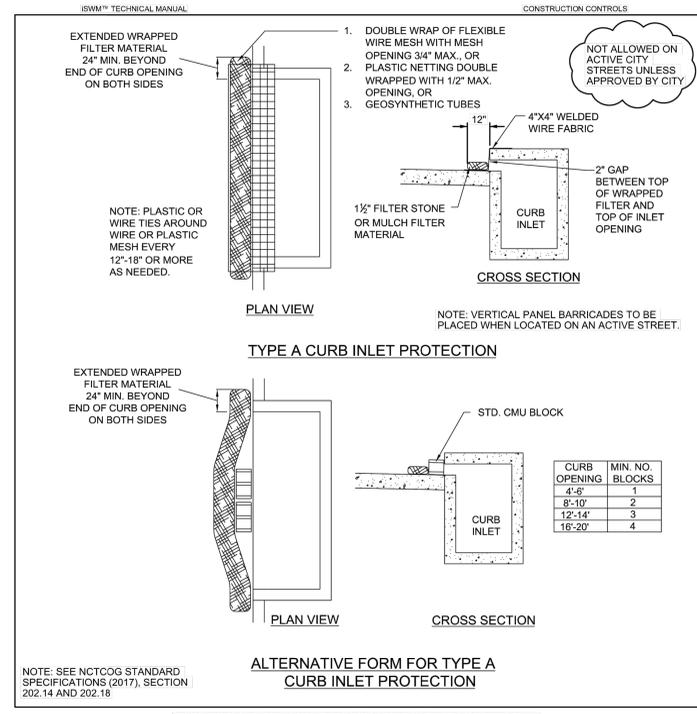


FIGURE 3.6 STANDARD CONSTRUCTION DETAIL - FILTER TUBE CURB INLET PROTECTION

INLET PROTECTION REVISED

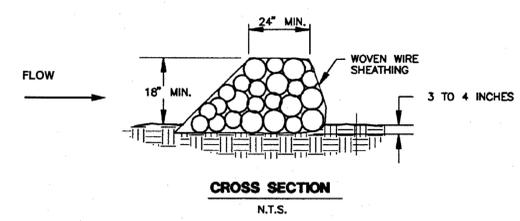


Figure 1-28 Schematic Diagram of a Rock Berm (NCTCOG, 1993)

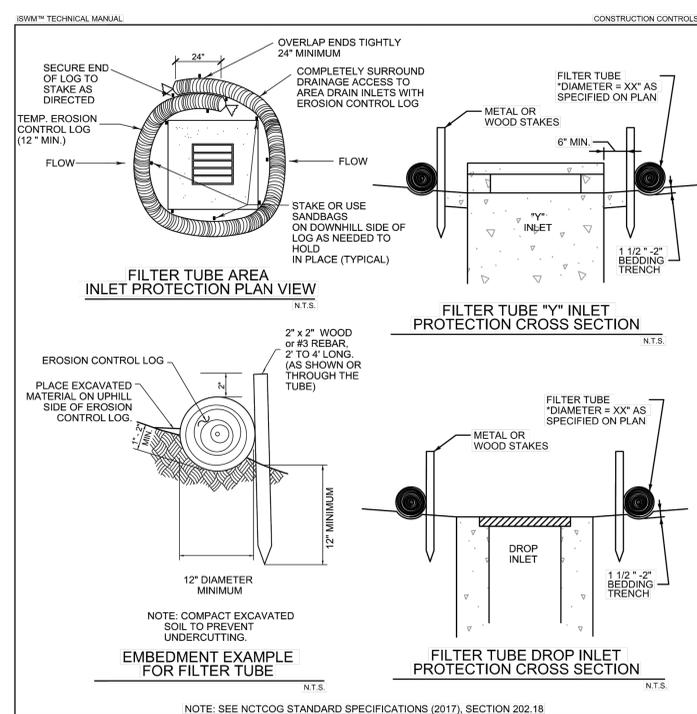


FIGURE 3.13 STANDARD CONSTRUCTION DETAIL - FILTER TUBE AREA INLET PROTECTION

INLET PROTECTION REVISED

DATE

REVISION

NEW BRAUNFELS HIGH SCHOOL PHASE 1 FOR NEW BRAUNFELS I.S.D. NEW BRAUNFELS, TEXAS

Project:

Kimley»Horn  
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.  
1901 REMLON PLACE, SUITE 400  
SAN ANTONIO, TX 78208  
PHONE: 781.451.9185 FAX: 781.451.9188  
WWW.KIMLEY-HORN.COM TEPF: FIRM NO. 028



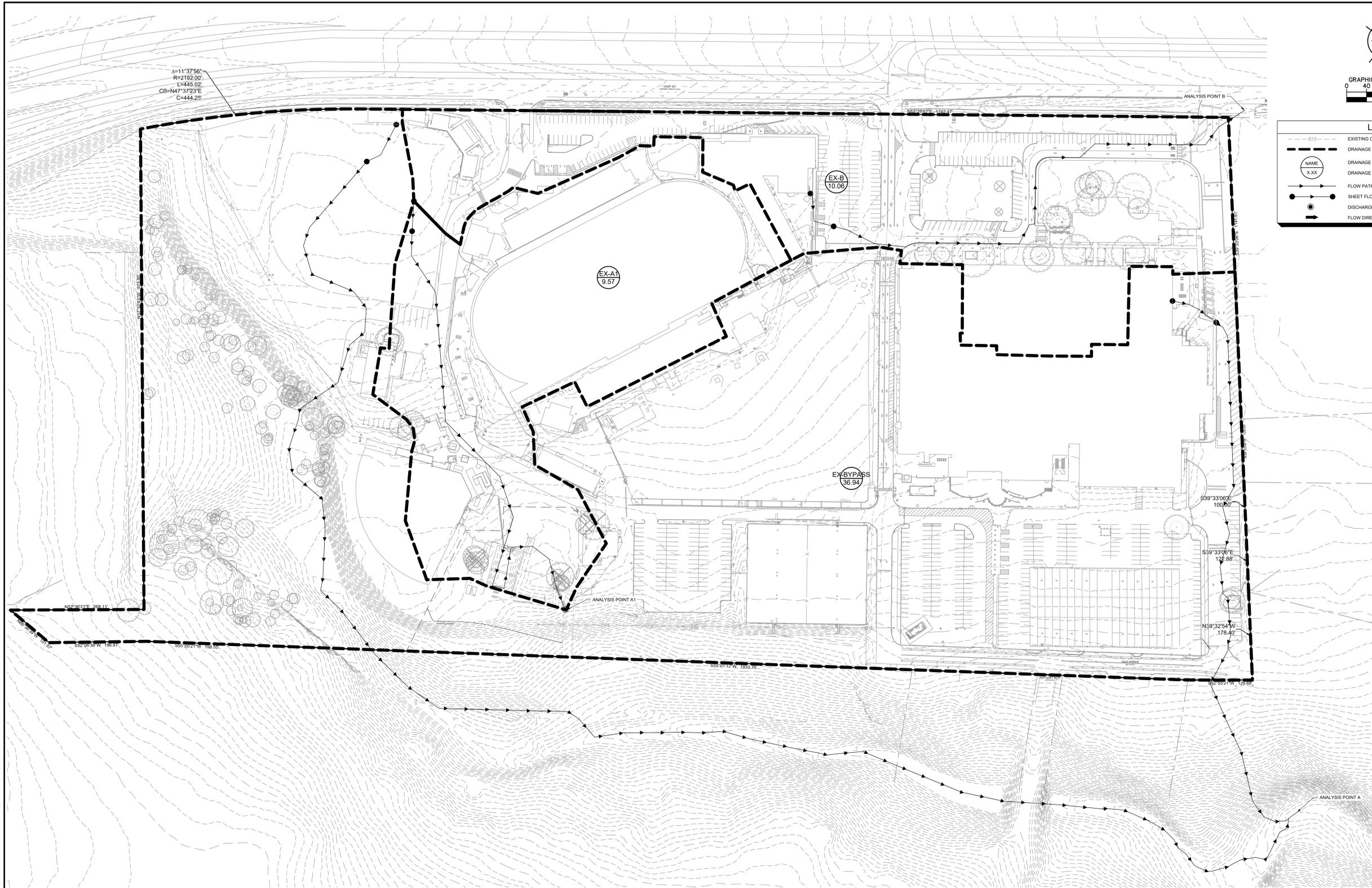
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EROSION CONTROL DETAILS (2 OF 2)

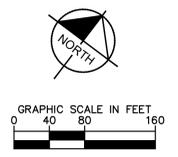
PACKAGE	VOLUME
Job No. 01935-02-01	Sheet No. C3.3
Drawn By:	Date: 03/20/2023

## **ATTACHMENT F – Structural Practices**

The structural practices that will be used to divert and store flows, and limit runoff discharge or pollutants will be the use of silt fences, inlet protection, and construction entrance stabilization.



A=11°37'56"  
R=2192.00'  
L=445.02'  
CB=N47°32'23"E  
C=444.25'



LEGEND	
	EXISTING CONTOURS
	DRAINAGE BOUNDARY
	DRAINAGE AREA NAME DRAINAGE AREA ACREAGE
	FLOW PATH
	SHEET FLOW LIMITS
	DISCHARGE POINT
	FLOW DIRECTION

PEAK FLOW CALCULATIONS									
Basin	Tc (min)	Area (a.c)	CN	Q-2 (cfs)	Q-10 (cfs)	Q-25 (cfs)	Q-50 (cfs)	Q-100 (cfs)	Collection Point
EX-A1	17.00	9.57	94.14	25.49	44.58	59.05	66.49	86.78	Existing Pond 1
EX-BYPASS	20.80	36.94	87.94	79.75	151.48	205.97	233.91	309.85	Point A
EX-BYPASS	10.00	10.06	91.90	30.29	54.33	72.49	81.82	107.22	Point B

BENCHMARK LIST	
BM #2	ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING"
BM #3	ELEVATION: 808.72' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

**CAUTION!**  
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

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

Project: NEW BRAUNFELS HIGH SCHOOL PHASE 1 FOR NEW BRAUNFELS I.S.D. NEW BRAUNFELS, TEXAS

**Kimley»Horn**  
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10101 REMLON PLACE, SUITE 400  
SAN ANTONIO, TX 78248  
PHONE: 781.451.9185 FAX: 781.451.9888  
WWW.KIMLEY-HORN.COM TEPF: FIRM NO. 028

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**EXISTING DRAINAGE AREA MAP**

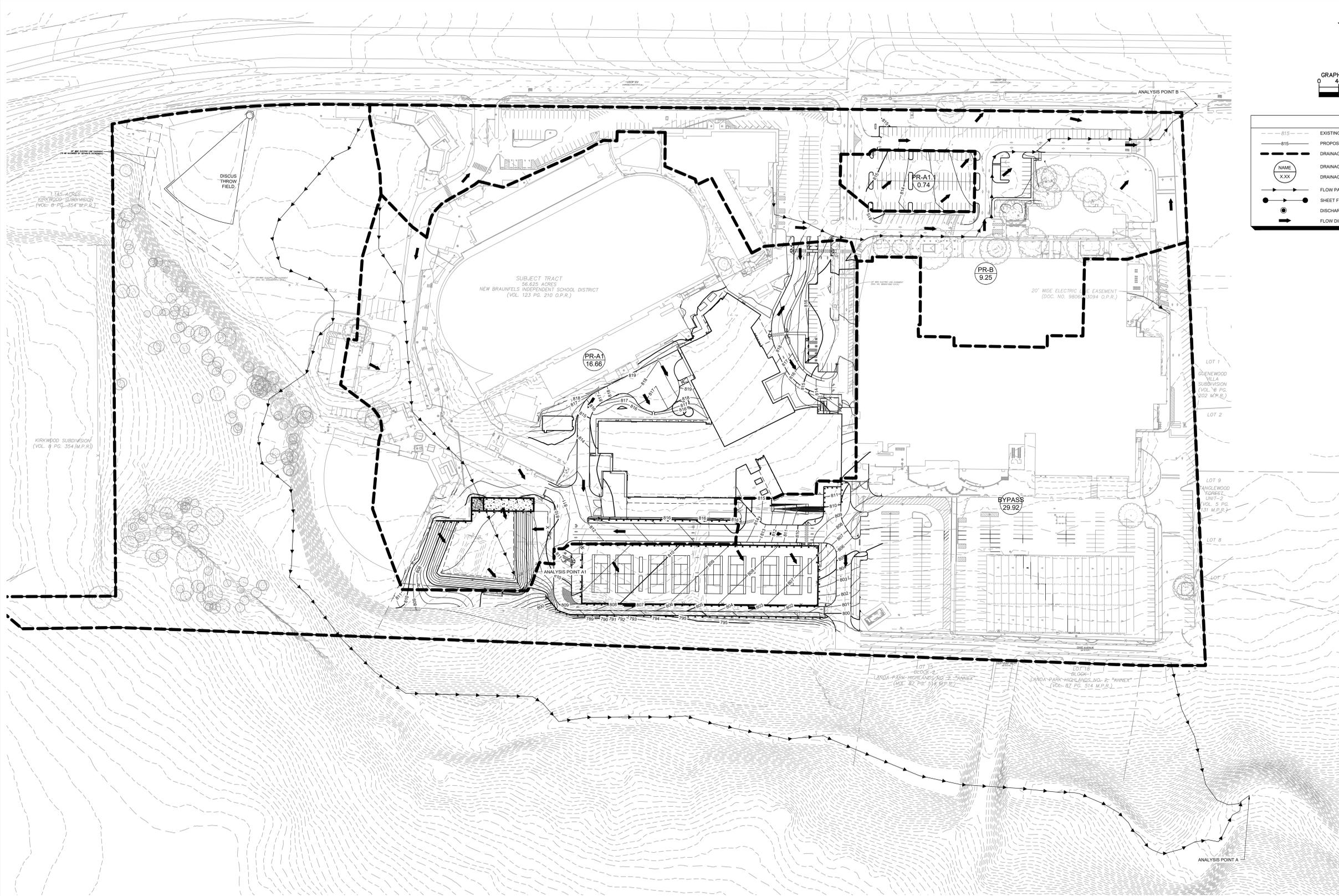
PACKAGE	VOLUME
Job No. 01935-02-01	Sheet No. C8.7
Drawn By: RAU	
Date: 02/11/2023	



GRAPHIC SCALE IN FEET  
0 40 80 160

**LEGEND**

- - - - - 815 - - - - - EXISTING CONTOURS
- - - - - 815 - - - - - PROPOSED CONTOURS
- - - - - DRAINAGE BOUNDARY
- (NAME) XXXX DRAINAGE AREA NAME
- (NAME) XXXX DRAINAGE AREA ACREAGE
- FLOW PATH
- SHEET FLOW LIMITS
- DISCHARGE POINT
- FLOW DIRECTION



**PEAK FLOW CALCULATIONS**

Basin	Tc (min)	Area (ac)	CN	Q-2 (cfs)	Q-10 (cfs)	Q-25 (cfs)	Q-50 (cfs)	Q-100 (cfs)	Collection Point
PR-A1	15.60	17.40	94.52	49.31	85.80	113.48	127.72	166.58	Pond 1
PR-B	9.25	10.00	92.51	28.24	50.27	66.93	75.49	98.81	Point B
PR-BYPASS	20.80	29.92	88.50	65.73	123.81	167.85	190.44	251.83	Point A

NOTE: THIS PLAN INCLUDES FUTURE PHASE 2 IMPROVEMENTS THAT ARE NOT PART OF THIS PERMIT PACKAGE. THESE IMPROVEMENTS ARE SHOWN TO DOCUMENT THAT THE PROPOSED PONDS HAVE SUFFICIENT CAPACITY FOR BOTH CURRENTLY PROPOSED AND FUTURE PLANNED IMPROVEMENTS.

**CAUTION!**  
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

**BENCHMARK LIST**

BM #2	ELEVATION: 826.52'
SET MAG WITH WASHNER	
STAMPED "KFW SURVEYING"	
BM #3	ELEVATION: 808.72'
SET MAG WITH WASHNER	
STAMPED "KFW SURVEYING"	

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

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**Kimley-Horn**  
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1001 REIMON PLACE, SUITE 400  
SAN ANTONIO, TX 78216  
PHONE: 214.348.7442 FAX: 214.348.8888  
WWW.KIMLEY-HORN.COM TEP# FIRM NO. 028



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4001 N. HALL ST. SUITE 1000 • HOUSTON • TX 77058  
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800.687.1279

**PROPOSED PHASE I DRAINAGE AREA MAP PACKAGE VOLUME**

Job No. 01935-02-01 Sheet No. C8.8  
Drawn By: \_\_\_\_\_  
Date: 02/21/2023

# **ATTACHMENT I – Inspection and Maintenance for BMP’s**

**PROJECT NAME:** New Braunfels High School  
**ADDRESS:** 2551 TX 337 Loop  
**CITY, STATE:** New Braunfels, TX

## **TEMPORARY BMP’S**

### **SILT FENCE**

- Inspections: Inspect all fencing weekly, and after any rainfall.
- Sediment Removal: Remove sediment when buildup reaches 6 inches.
- Replace any torn fabric or install a second line of fencing parallel to the torn section.
- Replace or repair any section crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.

When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

### **BAGGED GRAVEL INLET FILTER**

- Inspections: Should be made weekly, and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- Sediment Removal: Remove sediment when buildup reaches 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- Check placement of device to prevent gaps between device and curb.
- Inspect filter fabric and patch or replace if torn or missing.
- Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized

### **STABILIZED CONSTRUCTION ENTRANCE**

- The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public roadways. This may require periodic top dressing with additional stone as conditions demand, as well as repair and clean out of any measure devices used to trap sediment.
- All sediment that is spilled, dropped, washed or tracked onto public roadway must be removed immediately by contractor.

The stabilized construction entrance will be removed once the driveway to the proposed site is complete. Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

**Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities.**

**All inspections shall be documented.**

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

This Maintenance Plan is based on TCEQ Maintenance Guidelines.



## **ATTACHMENT J – Schedule of Interim and Permanent Soil Stabilization Practices**

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

### SOIL STABILIZATION PRACTICES:

- HYDROMULCHING
- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER: Disturbed areas, in which construction activity has ceased temporarily or permanently, shall be stabilized within 14 days unless activities are scheduled to resume and done within 21 days.

# Permanent 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)(C), (D)(li), (E), and (5), 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.**

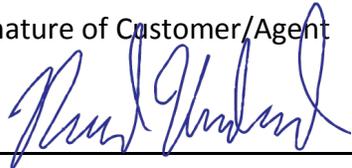
### Signature

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 **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of Customer/Agent

  
\_\_\_\_\_

Regulated Entity Name: \_\_\_\_\_

### Permanent Best Management Practices (BMPs)

**Permanent best management practices and measures that will be used during and after construction is completed.**

- Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.  
 N/A
- 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
3.  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
4. 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.
5. 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 A - 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.
6.  **Attachment B - 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.
7.  **Attachment C - 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.
8.  **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- N/A
9.  The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
  - Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10.  **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- Design calculations (TSS removal calculations)
  - TCEQ construction notes
  - All geologic features
  - All proposed structural BMP(s) plans and specifications
- N/A

11.  **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- Prepared and certified by the engineer designing the permanent BMPs and measures
  - Signed by the owner or responsible party
  - Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
  - A discussion of record keeping procedures
- N/A
12.  **Attachment H - 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
13.  **Attachment I -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 results in water quality degradation.
- N/A

### ***Responsibility for Maintenance of Permanent BMP(s)***

***Responsibility for maintenance of best management practices and measures after construction is complete.***

14.  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.
- N/A
15.  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.
- N/A

## **ATTACHMENT B – BMPs for Upgradient Stormwater**

Permanent water quality features have been installed and sized for upgradient stormwater.

## **ATTACHMENT C – BMPs for On-site Stormwater**

Permanent BMPS for the proposed High School Improvements is needed. A full sedimentation basin will treat the impervious cover.

**ATTACHMENT F – Construction Plans and  
Design Calculations**

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

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

**1. The Required Load Reduction for the total project:**

Calculations from RG-348

Pages 3-27 to 3-30

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

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

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

County =	Comal	
Total project area included in plan =	56.570	acres
Predevelopment impervious area within the limits of the plan =	30.46	acres
Total post-development impervious area within the limits of the plan =	34.56	acres
Total post-development impervious cover fraction =	0.61	
P =	33	inches

actual imp

$L_M$ Associated with New Project =	3680	lbs.
$L_M$ Associated with Old Sand Filter =	1654	lbs.
$L_M \text{ TOTAL PROJECT}$ =	5334	lbs.

Proposed plan replaces existing sand filter. The existing sand Filter was required to treat 1654 lbs of TSS. KH added this to the new load to determine the new required removal.

\* 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. =	A		Drainage Basin/Outfall Area No. =	B	
Total drainage basin/outfall area =	46.58	acres	Total drainage basin/outfall area =	9.25	acres
Predevelopment impervious area within drainage basin/outfall area =	23.81	acres	Predevelopment impervious area within drainage basin/outfall area =	6.65	acres
Post-development impervious area within drainage basin/outfall area =	28.13	acres	Post-development impervious area within drainage basin/outfall area =	6.43	acres
Post-development impervious fraction within drainage basin/outfall area =	0.60		Post-development impervious fraction within drainage basin/outfall area =	0.70	
$L_M \text{ THIS BASIN}$ =	3878	lbs.	$L_M \text{ THIS BASIN}$ =	-197	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 ( $L_R$ ) for this Drainage Basin by the selected BMP Type.**

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

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

$A_C$ =	17.40	acres
$A_i$ =	14.00	acres
$A_p$ =	3.40	acres
$L_R$ =	14281	lbs



*Richard J. Underwood* 02/23/2023

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

Desired  $L_M \text{ THIS BASIN}$  = 5334 lbs.  
F = 0.37

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

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth =	0.25	inches
Post Development Runoff Coefficient =	0.63	
On-site Water Quality Volume =	9952	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 = 1990

Total Capture Volume (required water quality volume(s) x 1.20) = 11942 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.

9. Filter area for Sand Filters

Designed as Required in RG-348

Pages 3-58 to 3-63

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin = 11942 cubic feet

We are doing full.

Minimum filter basin area = 553 square feet

Maximum sedimentation basin area = 4976 square feet For minimum water depth of 2 feet

Minimum sedimentation basin area = 1244 square feet For maximum water depth of 8 feet

Design sedimentation basin area for depth of 4' = 2488 square feet For design water depth of 4 feet

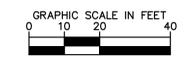
9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = N/A cubic feet

Minimum filter basin area = N/A square feet

Maximum sedimentation basin area = N/A square feet For minimum water depth of 2 feet

Minimum sedimentation basin area = N/A square feet For maximum water depth of 8 feet

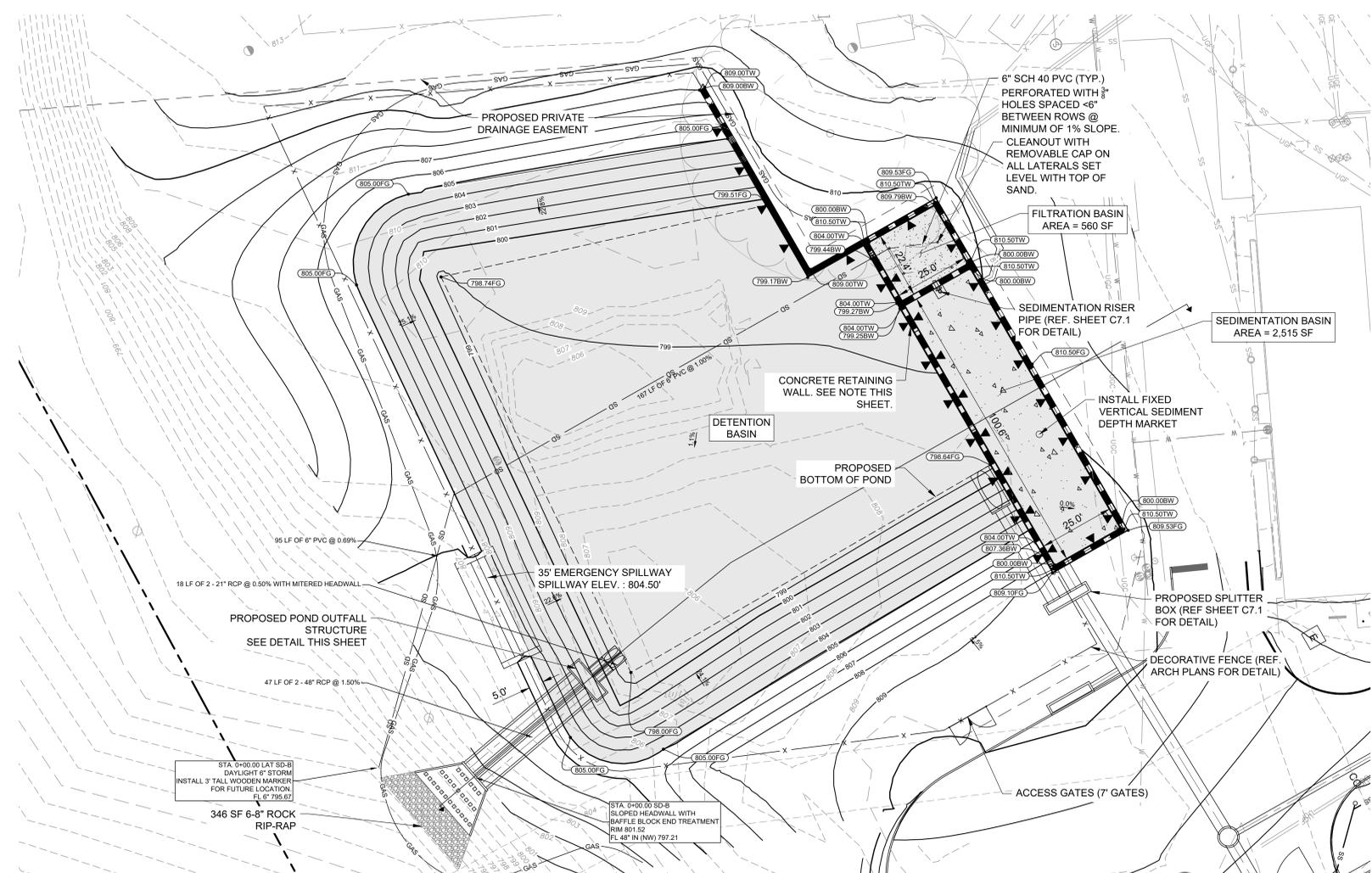


WATER QUALITY BASIN DETAILS	
ITEM	QUANTITY
WQ VOLUME REQUIRED	11,842 CF
WQ VOLUME PROVIDED	12,300 CF
SEDIMENTATION AREA REQUIRED	2,488 SF
SEDIMENTATION AREA PROVIDED	2,515 SF
FILTER AREA REQUIRED	563 SF
FILTER AREA PROVIDED	560 SF
WQ STORAGE DEPTH	4 FT
TSS REMOVED	5,334 LBS

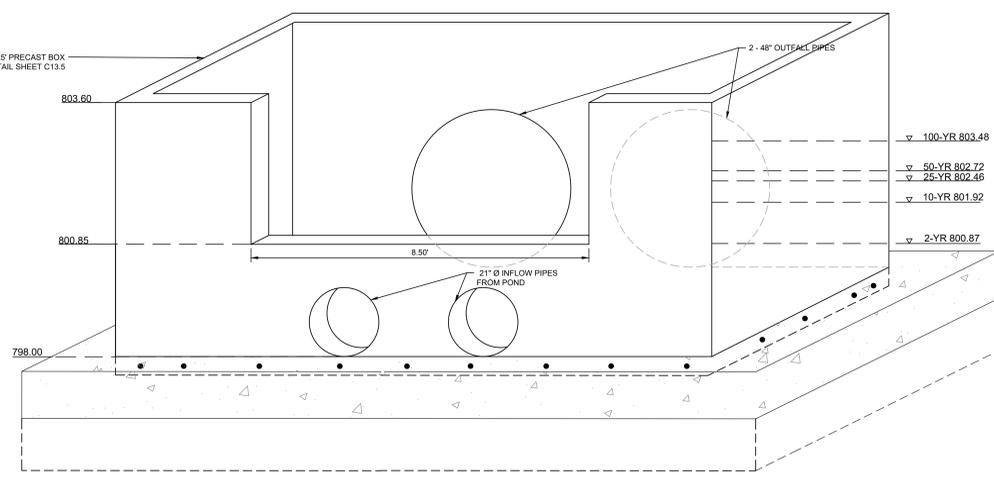
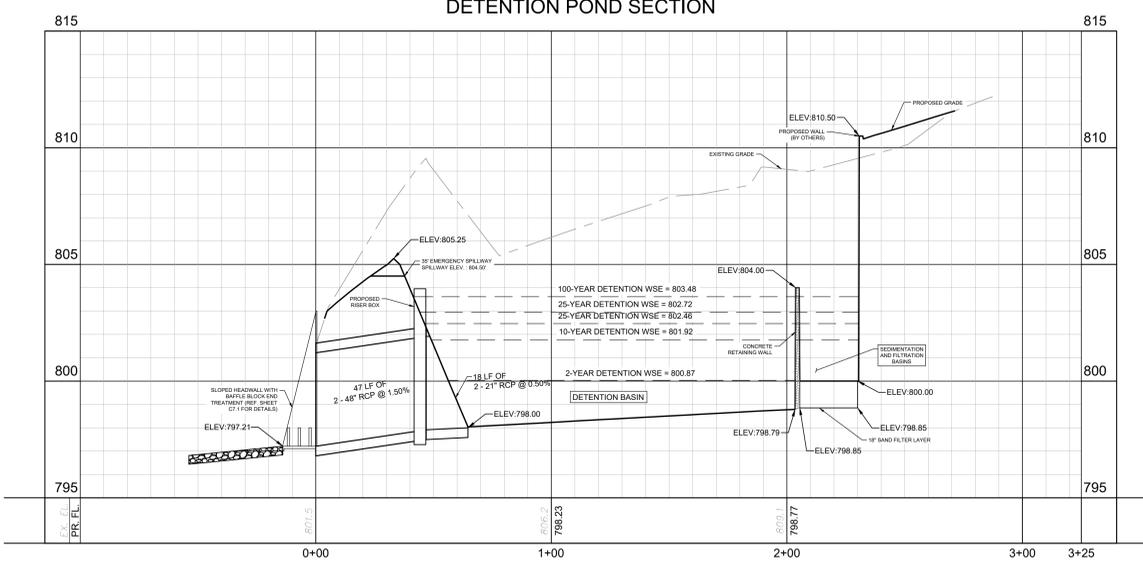
LEGEND	
	PROPOSED PROPERTY BOUNDARY
	EXISTING PROPERTY LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	PROPOSED RETAINING WALL
	PROPOSED FENCE
	PROPOSED STORM DRAIN (<12")
	PROPOSED STORM DRAIN (>=12")
	PROPOSED ROCK RIPRAP
	PROPOSED CURB INLET/GRATE INLET
	PROPOSED MANHOLE/JUNCTION BOX
	PROPOSED HEADWALL
	PROPOSED CONCRETE
	FINISHED GRADE AT BASE OF WALL
	TOP OF WALL
	BW
	TW

NOTE: EARTHEN EMBANKMENT SHALL HAVE A NON-PERMEABLE CORE AND SHALL BE COMPACTED TO 90% STANDARD PROCTOR.

STAGE STORAGE TABLE			
STAGE ELEVATION, FT.)	AREA (SQ. FT.)	INC. VOL (CU. FT.)	CUM. VOL (CU. FT.)
798.00	0.00		0.00
799.00	12,349.00	6,174.50	6,174.50
800.00	15,575.00	13,962.00	20,136.50
801.00	20,946.00	18,260.50	38,397.00
802.00	26,043.00	23,494.50	61,891.50
803.00	28,098.00	27,070.50	88,962.00
804.00	30,107.00	29,102.50	118,064.50
805.00	32,118.00	31,112.50	149,177.00

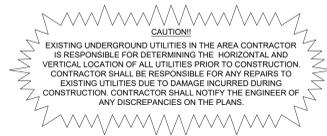


DETECTION POND SECTION



REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE ESTABLISHED UTILIZING NAVD88 (GEOID 12A)

BENCHMARK LIST	
BM #2	ELEVATION: 806.52'
	SET M&G WITH WASHER
	STAMPED "KFW SURVEYING"
BM #3	ELEVATION: 808.72'
	SET M&G WITH WASHER
	STAMPED "KFW SURVEYING"

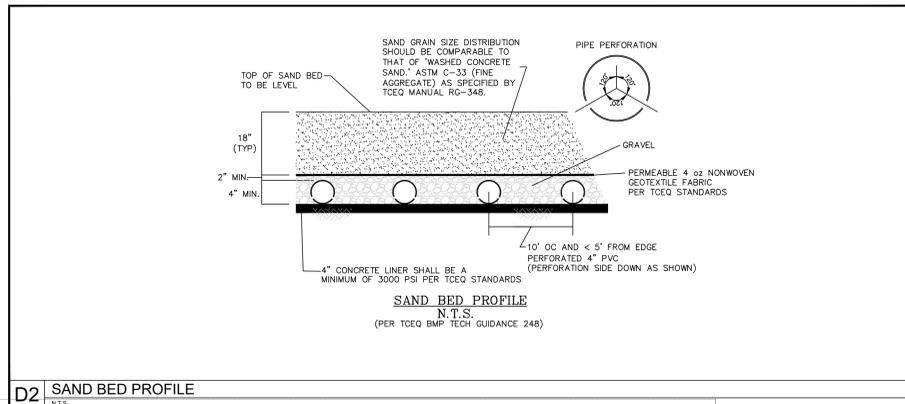
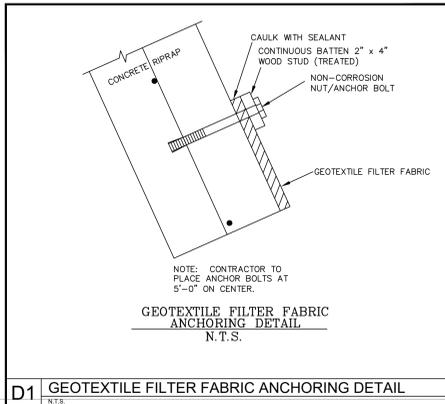


REVISION	DATE

NEW BRAUNFELS HIGH SCHOOL PHASE 1  
FOR NEW BRAUNFELS I.S.D.  
NEW BRAUNFELS, TEXAS



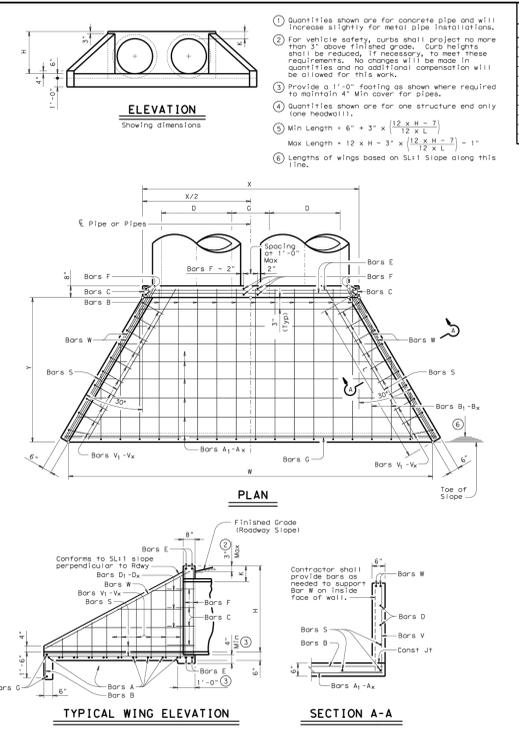
DETECTION AND WATER QUALITY POND PLAN	
PACKAGE	VOLUME
Job No. 01935-02-01	Sheet No. C7.0
Drawn By:	
Date: 03/20/2023	



**TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL**

Values for one pipe

PIPE DIA. (INCH)	W	X	Y	L	Reinforced (Lbs)	X and W	Reinforced (Lbs)
12"	4'-7 1/2"	3'-0"	2'-10"	3'-3 3/4"	84.0	6'-0"	20.0
15"	5'-5 3/4"	3'-0"	3'-4"	3'-10 1/4"	99.0	6'-0"	24.0
18"	6'-4 1/4"	3'-0"	3'-10"	4'-5"	120.0	6'-0"	32.0
21"	7'-2 3/4"	3'-0"	4'-0"	5'-0"	137.0	6'-0"	43.0
24"	8'-2 1/2"	3'-0"	4'-10"	5'-11 1/4"	158.0	6'-0"	50.0
27"	9'-1"	4'-0"	5'-4"	6'-2"	173.0	6'-0"	56.0
30"	9'-11 1/2"	4'-0"	5'-10"	6'-9 3/4"	197.0	6'-0"	65.0
33"	10'-10"	4'-0"	6'-4"	7'-3 3/4"	216.0	6'-0"	71.0
36"	11'-8 1/2"	4'-0"	6'-10"	8'-0"	239.0	6'-0"	77.0
42"	13'-5 1/2"	5'-0"	7'-10"	9'-0 1/2"	290.0	6'-0"	93.0
48"	15'-9 1/8"	5'-0"	9'-4"	10'-9 1/4"	350.0	6'-0"	113.0
54"	17'-5 1/8"	6'-0"	10'-4"	11-11 1/4"	415.0	6'-0"	131.0
60"	19'-2 3/8"	6'-0"	11'-4"	13'-1"	469.0	6'-0"	144.0
66"	20'-11 1/2"	7'-0"	12'-4"	14'-2 1/4"	520.0	6'-0"	156.0
72"	22'-8 1/2"	8'-0"	13'-4"	15'-3 3/4"	569.0	6'-0"	167.0
78"	24'-5 1/2"	8'-0"	14'-4"	16'-4 1/4"	616.0	6'-0"	177.0
84"	26'-2 1/2"	8'-0"	15'-4"	17'-5 1/4"	661.0	6'-0"	187.0
90"	27'-11 1/2"	8'-0"	16'-4"	18'-6 1/4"	704.0	6'-0"	196.0
96"	29'-8 1/2"	8'-0"	17'-4"	19'-7 1/4"	745.0	6'-0"	204.0
102"	31'-5 1/2"	8'-0"	18'-4"	20'-8 1/4"	784.0	6'-0"	212.0
108"	33'-2 1/2"	8'-0"	19'-4"	21'-9 1/4"	821.0	6'-0"	219.0
114"	34'-11 1/2"	8'-0"	20'-4"	22'-10 1/4"	856.0	6'-0"	225.0
120"	36'-8 1/2"	8'-0"	21'-4"	23'-11 1/4"	889.0	6'-0"	230.0
126"	38'-5 1/2"	8'-0"	22'-4"	24'-12 1/4"	920.0	6'-0"	235.0
132"	40'-2 1/2"	8'-0"	23'-4"	25'-11 1/4"	949.0	6'-0"	239.0
138"	41'-11 1/2"	8'-0"	24'-4"	26'-12 1/4"	976.0	6'-0"	243.0
144"	43'-8 1/2"	8'-0"	25'-4"	27'-11 1/4"	1001.0	6'-0"	246.0
150"	45'-5 1/2"	8'-0"	26'-4"	28'-12 1/4"	1024.0	6'-0"	249.0
156"	47'-2 1/2"	8'-0"	27'-4"	29'-11 1/4"	1045.0	6'-0"	251.0
162"	48'-11 1/2"	8'-0"	28'-4"	30'-12 1/4"	1064.0	6'-0"	253.0
168"	50'-8 1/2"	8'-0"	29'-4"	31'-11 1/4"	1081.0	6'-0"	255.0
174"	52'-5 1/2"	8'-0"	30'-4"	32'-12 1/4"	1096.0	6'-0"	257.0
180"	54'-2 1/2"	8'-0"	31'-4"	33'-11 1/4"	1109.0	6'-0"	258.0
186"	55'-11 1/2"	8'-0"	32'-4"	34'-12 1/4"	1120.0	6'-0"	259.0
192"	57'-8 1/2"	8'-0"	33'-4"	35'-11 1/4"	1129.0	6'-0"	260.0
198"	59'-5 1/2"	8'-0"	34'-4"	36'-12 1/4"	1136.0	6'-0"	261.0
204"	61'-2 1/2"	8'-0"	35'-4"	37'-11 1/4"	1141.0	6'-0"	261.0
210"	62'-11 1/2"	8'-0"	36'-4"	38'-12 1/4"	1144.0	6'-0"	261.0
216"	64'-8 1/2"	8'-0"	37'-4"	39'-11 1/4"	1145.0	6'-0"	261.0
222"	66'-5 1/2"	8'-0"	38'-4"	40'-12 1/4"	1144.0	6'-0"	260.0
228"	68'-2 1/2"	8'-0"	39'-4"	41'-11 1/4"	1141.0	6'-0"	259.0
234"	69'-11 1/2"	8'-0"	40'-4"	42'-12 1/4"	1136.0	6'-0"	257.0
240"	71'-8 1/2"	8'-0"	41'-4"	43'-11 1/4"	1129.0	6'-0"	255.0
246"	73'-5 1/2"	8'-0"	42'-4"	44'-12 1/4"	1119.0	6'-0"	252.0
252"	75'-2 1/2"	8'-0"	43'-4"	45'-11 1/4"	1107.0	6'-0"	248.0
258"	76'-11 1/2"	8'-0"	44'-4"	46'-12 1/4"	1092.0	6'-0"	244.0
264"	78'-8 1/2"	8'-0"	45'-4"	47'-11 1/4"	1075.0	6'-0"	239.0
270"	80'-5 1/2"	8'-0"	46'-4"	48'-12 1/4"	1056.0	6'-0"	233.0
276"	82'-2 1/2"	8'-0"	47'-4"	49'-11 1/4"	1034.0	6'-0"	226.0
282"	83'-11 1/2"	8'-0"	48'-4"	50'-12 1/4"	1009.0	6'-0"	218.0
288"	85'-8 1/2"	8'-0"	49'-4"	51'-11 1/4"	981.0	6'-0"	209.0
294"	87'-5 1/2"	8'-0"	50'-4"	52'-12 1/4"	950.0	6'-0"	200.0
300"	89'-2 1/2"	8'-0"	51'-4"	53'-11 1/4"	916.0	6'-0"	190.0
306"	90'-11 1/2"	8'-0"	52'-4"	54'-12 1/4"	879.0	6'-0"	179.0
312"	92'-8 1/2"	8'-0"	53'-4"	55'-11 1/4"	839.0	6'-0"	167.0
318"	94'-5 1/2"	8'-0"	54'-4"	56'-12 1/4"	796.0	6'-0"	154.0
324"	96'-2 1/2"	8'-0"	55'-4"	57'-11 1/4"	750.0	6'-0"	140.0
330"	97'-11 1/2"	8'-0"	56'-4"	58'-12 1/4"	701.0	6'-0"	125.0
336"	99'-8 1/2"	8'-0"	57'-4"	59'-11 1/4"	649.0	6'-0"	110.0
342"	101'-5 1/2"	8'-0"	58'-4"	60'-12 1/4"	594.0	6'-0"	94.0
348"	103'-2 1/2"	8'-0"	59'-4"	61'-11 1/4"	536.0	6'-0"	78.0
354"	104'-11 1/2"	8'-0"	60'-4"	62'-12 1/4"	475.0	6'-0"	61.0
360"	106'-8 1/2"	8'-0"	61'-4"	63'-11 1/4"	411.0	6'-0"	44.0
366"	108'-5 1/2"	8'-0"	62'-4"	64'-12 1/4"	344.0	6'-0"	27.0
372"	110'-2 1/2"	8'-0"	63'-4"	65'-11 1/4"	275.0	6'-0"	10.0



**TABLE OF REINFORCING STEEL CONSTANT DIMENSIONS**

Bar Size	Spd	No.	D	G	K	H	
A	4	1	12"	9"	0"	2"	0"
B	3	1	12"	11"	0"	2"	3"
C	4	1	10"	9"	0"	2"	0"
D	3	1	10"	11"	0"	2"	3"
E	5	1	10"	9"	0"	2"	0"
F	5	1	10"	11"	0"	2"	3"
G	3	2	24"	11"	0"	3"	0"
H	3	2	24"	13"	0"	3"	3"
I	4	2	27"	11"	0"	3"	3"
J	4	2	27"	13"	0"	3"	3"
K	3	3	33"	11"	0"	3"	3"
L	3	3	33"	13"	0"	3"	3"
M	5	1	4	4	0"	0"	0"
N	5	1	4	4	0"	0"	0"
O	5	1	4	4	0"	0"	0"
P	5	1	4	4	0"	0"	0"
Q	5	1	4	4	0"	0"	0"
R	5	1	4	4	0"	0"	0"
S	5	1	4	4	0"	0"	0"
T	5	1	4	4	0"	0"	0"
U	5	1	4	4	0"	0"	0"
V	5	1	4	4	0"	0"	0"

**CONCRETE HEADWALLS WITH FLARED WINGS FOR 0° SKEW PIPE CULVERTS**

CH-FW-0

**TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL**

Values for one pipe

PIPE DIA. (INCH)	W	X	Y	L	Reinforced (Lbs)	X and W	Reinforced (Lbs)
12"	4'-7 1/2"	3'-0"	2'-10"	3'-3 3/4"	84.0	6'-0"	20.0
15"	5'-5 3/4"	3'-0"	3'-4"	3'-10 1/4"	99.0	6'-0"	24.0
18"	6'-4 1/4"	3'-0"	3'-10"	4'-5"	120.0	6'-0"	32.0
21"	7'-2 3/4"	3'-0"	4'-0"	5'-0"	137.0	6'-0"	43.0
24"	8'-2 1/2"	3'-0"	4'-10"	5'-11 1/4"	158.0	6'-0"	50.0
27"	9'-1"	4'-0"	5'-4"	6'-2"	173.0	6'-0"	56.0
30"	9'-11 1/2"	4'-0"	5'-10"	6'-9 3/4"	197.0	6'-0"	65.0
33"	10'-10"	4'-0"	6'-4"	7'-3 3/4"	216.0	6'-0"	71.0
36"	11'-8 1/2"	4'-0"	6'-10"	8'-0"	239.0	6'-0"	77.0
42"	13'-5 1/2"	5'-0"	7'-10"	9'-0 1/2"	290.0	6'-0"	93.0
48"	15'-9 1/8"	5'-0"	9'-4"	10'-9 1/4"	350.0	6'-0"	113.0
54"	17'-5 1/8"	6'-0"	10'-4"	11-11 1/4"	415.0	6'-0"	131.0
60"	19'-2 3/8"	6'-0"	11'-4"	13'-1"	469.0	6'-0"	144.0
66"	20'-11 1/2"	7'-0"	12'-4"	14'-2 1/4"	520.0	6'-0"	156.0
72"	22'-8 1/2"	8'-0"	13'-4"	15'-3 3/4"	569.0	6'-0"	167.0
78"	24'-5 1/2"	8'-0"	14'-4"	16'-4 1/4"	616.0	6'-0"	177.0
84"	26'-2 1/2"	8'-0"	15'-4"	17'-5 1/4"	661.0	6'-0"	187.0
90"	27'-11 1/2"	8'-0"	16'-4"	18'-6 1/4"	704.0	6'-0"	196.0
96"	29'-8 1/2"	8'-0"	17'-4"	19'-7 1/4"	745.0	6'-0"	204.0
102"	31'-5 1/2"	8'-0"	18'-4"	20'-8 1/4"	784.0	6'-0"	212.0
108"	33'-2 1/2"	8'-0"	19'-4"	21'-9 1/4"	821.0	6'-0"	219.0
114"	34'-11 1/2"	8'-0"	20'-4"	22'-10 1/4"	856.0	6'-0"	225.0
120"	36'-8 1/2"	8'-0"	21'-4"	23'-11 1/4"	889.0	6'-0"	230.0
126"	38'-5 1/2"	8'-0"	22'-4"	24'-12 1/4"	920.0	6'-0"	235.0
132"	40'-2 1/2"	8'-0"	23'-4"	25'-11 1/4"	949.0	6'-0"	239.0
138"	41'-11 1/2"	8'-0"	24'-4"	26'-12 1/4"	976.0	6'-0"	243.0
144"	43'-8 1/2"	8'-0"	25'-4"	27'-11 1/4"	1001.0	6'-0"	246.0
150"	45'-5 1/2"	8'-0"	26'-4"	28'-12 1/4"	1024.0	6'-0"	249.0
156"	47'-2 1/2"	8'-0"	27'-4"	29'-11 1/4"	1045.0	6'-0"	251.0
162"	48'-11 1/2"	8'-0"	28'-4"	30'-12 1/4"	1064.0	6'-0"	253.0
168"	50'-8 1/2"	8'-0"	29'-4"	31'-11 1/4"	1081.0	6'-0"	255.0
174"	52'-5 1/2"	8'-0"	30'-4"	32'-12 1/4"	1096.0	6'-0"	257.0
180"	54'-2 1/2"	8'-0"	31'-4"	33'-11 1/4"	1109.0	6'-0"	258.0
186"	55'-11 1/2"	8'-0"	32'-4"	34'-12 1/4"	1120.0	6'-0"	259.0
192"	57'-8 1/2"	8'-0"	33'-4"	35'-11 1/4"	1129.0	6'-0"	260.0
198"	59'-5 1/2"	8'-0"	34'-4"	36'-12 1/4"	1136.0	6'-0"	261.0
204"	61'-2 1/2"	8'-0"	35'-4"	37'-11 1/4"	1141.0	6'-0"	261.0
210"	62'-11 1/2"	8'-0"	36'-4"	38'-12 1/4"	1144.0	6'-0"	261.0
216"	64'-8 1/2"	8'-0"	37'-4"	39'-11 1/4"	1145.0	6'-0"	261.0
222"	66'-5 1/2"	8'-0"	38'-4"	40'-12 1/4"	1144.0	6'-0"	260.0
228"	68'-2 1/2"	8'-0"	39'-4"	41'-11 1/4"	1141.0	6'-0"	259.0
234"	69'-11 1/2"	8'-0"	40'-4"	42'-12 1/4"	1136.0	6'-0"	257.0
240"	71'-8 1/2"	8'-0"	41'-4"	43'-11 1/4"	1129.0	6'-0"	255.0
246"	73'-5 1/2"	8'-0"	42'-4"	44'-12 1/4"	1119.0	6'-0"	252.0
252"	75'-2 1/2"	8'-0"	43'-4"	45'-11 1/4"	1107.0	6'-0"	248.0
258"	76'-11 1/2"	8'-0"	44'-4"	46'-12 1/4"	1092.0	6'-0"	244.0
264"	78'-8 1/2"	8'-0"	45'-4"	47'-11 1/4"	1075.0	6'-0"	239.0
270"	80'-5 1/2"	8'-0"	46'-4"	48'-12 1/4"	1056.0	6'-0"	233.0
276"	82'-2 1/2"	8'-0"	47'-4"	49'-11 1/4"	1034.0	6'-0"	226.0
282"	83'-11 1/2"	8'-0"	48'-4"	50'-12 1/4"	1009.0	6'-0"	218.0
288"	85'-8 1/2"	8'-0"	49'-4"	51'-11 1/4"	981.0	6'-0"	209.0
294"	87'-5 1/2"	8'-0"	50'-4"	52'-12 1/4"	950.0	6'-0"	200.0
300"	89'-2 1/2"	8'-0"	51'-4"	53'-11 1/4"	916.0	6'-0"	190.0
306"	90'-11 1/2"	8'-0"	52'-4"	54'-12 1/4"	879.0	6'-0"	179.0
312"	92'-8 1/2"	8'-0"	53'-4"	55'-11 1/4"	839.0	6'-0"	167.0
318"	94'-5 1/2"	8'-0"	54'-4"	56'-12 1/4"	796.0	6'-0"	154.0
324"	96'-2 1/2"	8'-0"	55'-4"	57'-11 1/4"	750.0	6'-0"	140.0
330"	97'-11 1/2"	8'-0"	56'-4"	58'-12 1/4"	701.0	6'-0"	125.0
336"	99'-8 1/2"	8'-0"	57'-4"	59'-11 1/4"	649.0	6'-0"	110.0
342"	101'-5 1/2"</						

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

I Clint McLain  
Print Name  
Asst. Superintendent  
Title - Owner/President/Other  
of New Braunfels ISD  
Corporation/Partnership/Entity Name  
have authorized Richard Underwood, P.E.  
Print Name of Agent/Engineer  
of Kimley-Horn & Associates Inc.  
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

[Signature]  
Applicant's Signature

2/13/2023  
Date

THE STATE OF Texas §  
County of Comal §

BEFORE ME, the undersigned authority, on this day personally appeared Clint McChain 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.

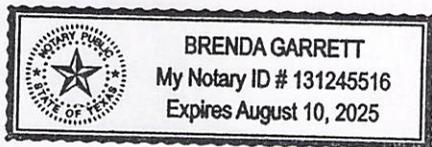
GIVEN under my hand and seal of office on this 13<sup>th</sup> day of February, 2023

[Signature]

NOTARY PUBLIC

Brenda Garrett  
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 8/10/25



**New Braunfels High School Renovations  
Water Pollution Abatement Plan  
Attachment G**

**Inspection, Maintenance, Repair, and Retrofit Plan**

The inspection and maintenance plan outlines the procedures necessary to maintain the performance of the Permanent Best Management Practices for this project. It should be noted that the plan provides guidelines that may have to be adjusted dependent on site-specific and weather-related conditions.

It is the responsibility of the owner of the property to provide the inspections and maintenance as outlined in the plan for the duration of the project. The owner will maintain this responsibility until it is assumed or transferred to another entity in writing. If the property is leased or sold, the responsibility for the maintenance will be required to be transferred through the lease agreement, binding covenants, closing documents, or other binding legal instrument.

Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities. All inspections shall be documented.

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

Responsible Party: New Braunfels Independent School District  
Mailing Address: 1000 N. Walnut  
City, State: New Braunfels, Texas 78130  
Telephone: 830-643-5700

I, the owner, have read and understand the requirements of the attached Inspection and Maintenance Plan for the proposed Permanent Best Management Practices for my project. I acknowledge that I will maintain responsibility for the implementation and execution of the plan until the responsibility is transferred to or assumed by another party in writing through a binding legal instrument.

Name of Responsible Party (Print): Mark Liggett

Signature of Responsible Party: Mark Liggett Date: 17 March 2023

***New Braunfels High School Renovations  
Water Pollution Abatement Plan  
Attachment G***

**Traditional Sand Filter Maintenance Guide**

The inspection and maintenance of the traditional sand filter includes the following action items:

1. Street Sweep Parking Lot
  - a. Sediment, debris, trash, and any other items in parking lot should be removed regularly (to be removed quarterly).
2. Trash Removal
  - a. Trash should be removed from the site regularly (to be removed monthly).
3. Inspection of Outlet for Obstructions
  - a. The sand filter outlet shall be inspected monthly for obstructions and cleaned out as necessary. This includes inspections after major rain events.
4. Inspection for Clogging
  - a. The sand filter shall be inspected monthly for clogging, followed by a cleaning to remove current clogs, or prevent future clogging from forming. This includes inspections after major rain events.
5. Inspection of Inlet Grates
  - a. The inlet grates of the storm structures leading to the sand filter shall be inspected monthly for debris or clogs and have any obstructions removed accordingly. This includes inspections after major rain events.
6. Skim Sand Media
  - a. The sand media shall be skimmed yearly in accordance with TCEQ standards, removing debris and excess material.
7. Pump Oil and Grit from Sedimentation Chamber
  - a. The sedimentation chamber shall be pumped to remove excess oil and grit yearly or at the point the chamber is 50% full, whichever comes first.
8. Replace Sand Media
  - a. The sand media in the sand filter shall be replaced as needed (expect 3 years).

These preventative action items will help maintain the sand filter to ensure proper treatment of stormwater runoff.

# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: New Braunfels High School

Regulated Entity Location: 2551 TX 337 Loop New Braunfels Tx

Name of Customer: New Braunfels ISD

Contact Person: Clint McLain

Phone: 840-643-5700

Customer Reference Number (if issued): CN 600397814

Regulated Entity Reference Number (if issued): RN 102402526

### Austin Regional Office (3373)

Hays

Travis

Williamson

### San Antonio Regional Office (3362)

Bexar

Medina

Uvalde

Comal

Kinney

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

Austin Regional Office

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

12100 Park 35 Circle

Mail Code 214

Building A, 3rd Floor

P.O. Box 13088

Austin, TX 78753

Austin, TX 78711-3088

(512)239-0357

### Site Location (Check All That Apply):

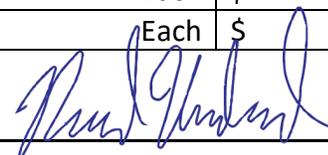
Recharge Zone

Contributing Zone

Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
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	56.57 Acres	\$ 8,000
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: \_\_\_\_\_



Date: 2-23-2023

## 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***

<b><i>Project</i></b>	<b><i>Fee</i></b>
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

<b>1. Reason for Submission</b> (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	
<b>2. Customer Reference Number (if issued)</b>	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number (if issued)</b>
CN 600397814		RN 102402526

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<b>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).</b>			
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
NBISD			
<b>7. TX SOS/CPA Filing Number</b>	<b>8. TX State Tax ID</b> (11 digits)	<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
0153150601	17429237443		
<b>11. Type of Customer:</b>	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>		<b>13. Independently Owned and Operated?</b>	
<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	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input checked="" type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
<b>15. Mailing Address:</b>	1117 N Academy Ave		
	City	New Braunfels	State TX ZIP 781320 ZIP + 4
<b>16. Country Mailing Information</b> (if outside USA)		<b>17. E-Mail Address</b> (if applicable)	
<b>18. Telephone Number</b>		<b>19. Extension or Code</b>	<b>20. Fax Number</b> (if applicable)
( ) -			( ) -

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input checked="" type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
<b>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).</b>	
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)	
Additions and Renovations to New Braunfels High School	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	2551 Tx 337 Loop							
	City	New Braunfels	State	TX	ZIP	78130	ZIP + 4	
24. County	Bexar							

**Enter Physical Location Description if no street address is provided.**

25. Description to Physical Location:									
26. Nearest City					State				Nearest ZIP Code
27. Latitude (N) In Decimal:				28. Longitude (W) In Decimal:					
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds				
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)						
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>									
High School									
34. Mailing Address:									
	City		State		ZIP		ZIP + 4		
35. E-Mail Address:									
36. Telephone Number	37. Extension or Code			38. Fax Number <i>(if applicable)</i>					
( ) -				( ) -					

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

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

**SECTION IV: Preparer Information**

40. Name:	Richard Underwood	41. Title:	Project Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 210 ) 541-9166		( ) -	richard.underwood@kimley-horn.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:	Kimley Horn	Job Title:	Agent for Owner
Name <i>(In Print)</i> :	Richard Underwood, P.E.	Phone:	( 210 ) 321- 3415

Signature:



Date:

2/26/23