WATER POLLUTION ABATMENT PLAN MODIFICATION FOR INDIAN SPRINGS ELEMENTARY SCHOOL

PREPARED FOR:





DATE: MAY 2023

PREPARED BY:



12770 Cimarron Path, Ste 100 San Antonio, TX 78249 TBPE Firm #5297 Phone 210-698-5051 Fax 210-698-5085

CISD INDIAN SPRINGS ELEMENTARY SCHOOL WATER POLLUTION ABATEMENT PLAN MODIFICATION

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Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

- 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

- When an application is deemed administratively complete, the technical review period begins. The regional
 office will distribute copies of the application to the identified affected city, county, and groundwater
 conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days
 to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
- 2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

- clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.
- 3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
- 4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: CISD INDIAN SPRINGS ELEMENTARY SCHOOL				2. Regulated Entity No.: 106117658					
3. Customer Name: Comal ISD			4. Customer No.: 600249825			825			
5. Project Type: (Please circle/check one)	New	w Modification		Extension		Exception			
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residen	ntial 🤇	Non-residential		8. Site		e (acres):	15.20	
9. Application Fee:	\$6,500		10. Permanent I		3MP(s):		Sedimentation/Filtration Basin		
11. SCS (Linear Ft.):	N/A		12. AST/UST (No			o. Tar	o. Tanks): N/A		
13. County:	Bexar		14. Watershed:					Headwaters Salado Creek	

Application Distribution

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

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%2oGWCD%2omap.pdf

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

Austin Region					
County:	Hays	Travis	Williamson		
Original (1 req.)	_	_	_		
Region (1 req.)	_	_	_		
County(ies)	_	_	_		
Groundwater Conservation District(s)	Edwards Aquifer AuthorityBarton Springs/ Edwards AquiferHays TrinityPlum Creek	Barton Springs/ Edwards Aquifer	NA		
City(ies) Jurisdiction	AustinBudaDripping SpringsKyleMountain CitySan MarcosWimberleyWoodcreek	AustinBee CavePflugervilleRollingwoodRound RockSunset ValleyWest Lake Hills	AustinCedar ParkFlorenceGeorgetownJerrellLeanderLiberty HillPflugerville Round Rock		

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.				
Sean Smith, P.E.				
Print Name of Customer/Authorized Agent				
5/31/23				
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 Payable to TCEQ (Y/N):		/N):
Core Data Form Complete (Y/N):	l l	Check: Signed (Y/N): Less than 90 days old (Y/N):		
Core Data Form Incomplete Nos.:				ld (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:

Wa	was prepared by:					
Pri	Print Name of Customer/Agent: <u>Sean Smith, P.E.</u>					
Da	te: <u>05/31/2023</u>					
Sig	nature of Customer/Agent:					
Pi	roject Information					
1.	Regulated Entity Name: <u>CISD INDIAN SPRINGS ELEMENTARY SCHOOL</u>					
2.	County: Bexar County					
3.	Stream Basin: <u>Headwaters Salado Creek</u>					
4.	Groundwater Conservation District (If applicable): Edwards Aquifer Authority					
5.	Edwards Aquifer Zone:					
	Recharge Zone Transition Zone					
6.	Plan Type:					
	WPAPSCS✓ UST✓ Modification✓ Exception Request					

7.	Cus	stomer (Applicant):	
	Ent Ma City Tel	ntact Person: Alejandro Araujo city: Comal Independent School District illing Address: 1404 N Interstate 35 Frontage Rd y, State: New Braunfels, TX ephone: 830-221-2150 ail Address: alejandro.araujo@comalisd.org	Zip: <u>78130</u> FAX:
8.	Age	ent/Representative (If any):	
	Ent Ma City Tel	ntact Person: <u>Sean Smith, P.E.</u> city: <u>Moy Tarin Ramirez Engineers, LLC</u> ciling Address: <u>12770 Cimarron Path, Suite 100</u> cy, State: <u>San Antonio, TX</u> ephone: <u>210-698-5051</u> ail Address: <u>ssmith@mtrengineers.com</u>	Zip: <u>78249</u> FAX:
9.	Pro	eject Location:	
		The project site is located inside the city limits of the project site is located outside the city limits jurisdiction) of The project site is not located within any city's l	but inside the ETJ (extra-territorial
10.		The location of the project site is described belo detail and clarity so that the TCEQ's Regional st boundaries for a field investigation.	
		25751 Wilderness Oak, San Antonio, TX 78261	
11.		Attachment A – Road Map . A road map showing project site is attached. The project location and the map.	_
12.		Attachment B - USGS / Edwards Recharge Zone USGS Quadrangle Map (Scale: 1" = 2000') of the The map(s) clearly show:	
		 ☑ Project site boundaries. ☑ USGS Quadrangle Name(s). ☑ Boundaries of the Recharge Zone (and Transle) ☑ Drainage path from the project site to the boundaries. 	
13.		The TCEQ must be able to inspect the project so Sufficient survey staking is provided on the project the boundaries and alignment of the regulated features noted in the Geologic Assessment.	ect to allow TCEQ regional staff to locate
	\boxtimes	Survey staking will be completed by this date: $\underline{1}$	<u>1/1/2022</u>

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: Existing Elementary School
Prohibited Activities
16. X I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:
 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. X 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

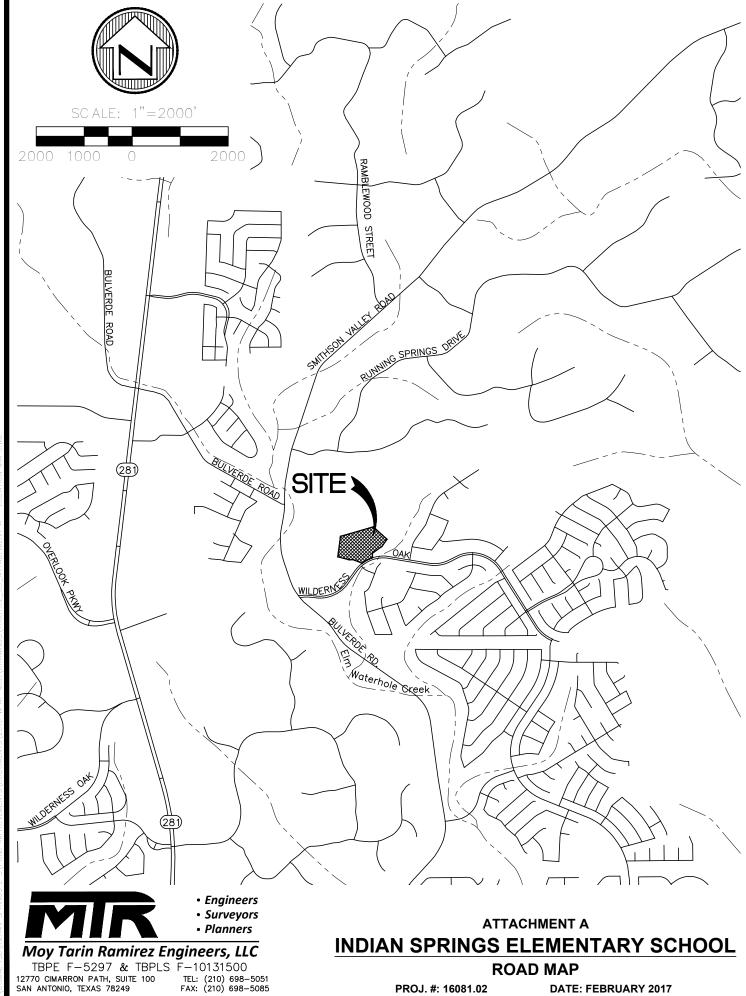
(2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

Injection Control);

(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.

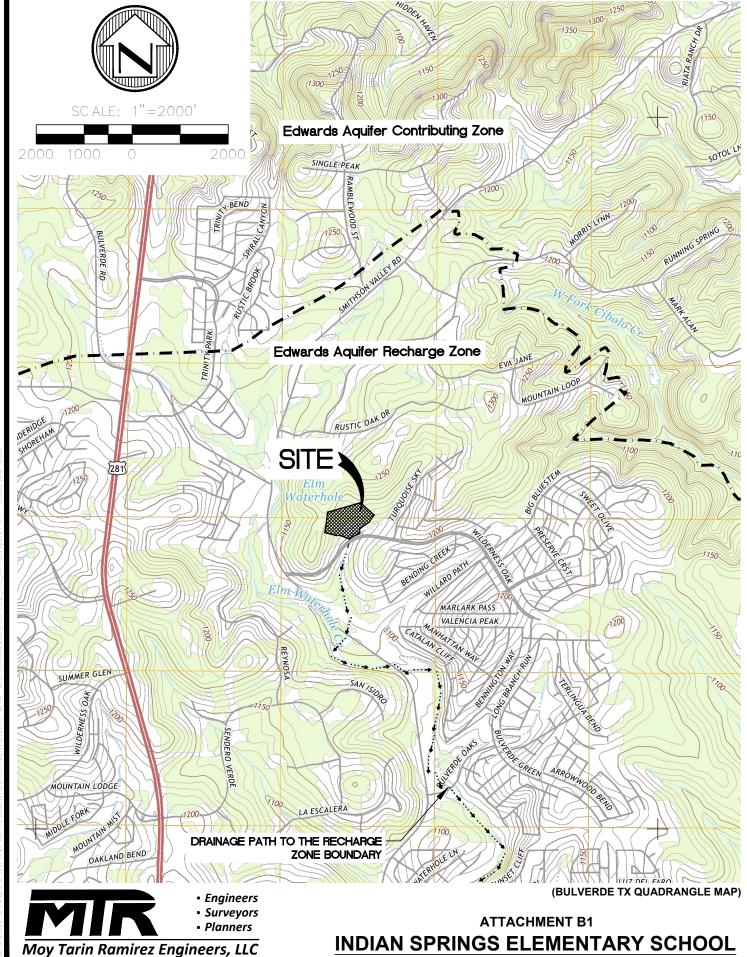
Administrative Information

18.	The fee for the plan(s) is based on:	
	 For a Water Pollution Abatement Plan or Modification, the total arwhere regulated activities will occur. For an Organized Sewage Collection System Plan or Modification, footage of all collection system lines. For a UST Facility Plan or Modification or an AST Facility Plan or Modification or an exception to any substantive portion of the regular protection of water quality. A request for an extension to a previously approved plan. 	the total linear odification, the total
19.	Application fees are due and payable at the time the application is fee is not submitted, the TCEQ is not required to consider the application correct fee is submitted. Both the fee and the Edwards Aquifer Fe sent to the Commission's:	lication until the
	 TCEQ cashier Austin Regional Office (for projects in Hays, Travis, and William San Antonio Regional Office (for projects in Bexar, Comal, Kinn Uvalde Counties) 	· ·
20.	Submit one (1) original and one (1) copy of the application, plus and needed for each affected incorporated city, groundwater conserve county in which the project will be located. The TCEQ will distribut copies to these jurisdictions. The copies must be submitted to the office.	ation district, and ite the additional
21.	No person shall commence any regulated activity until the Edward Plan(s) for the activity has been filed with and approved by the Ex	



PROJ. #: 16081.02

DATE: FEBRUARY 2017



USGS/EDWARDS RECHARGE ZONE MAP

DATE: FEBRUARY 2017

PROJ. #: 16081.02

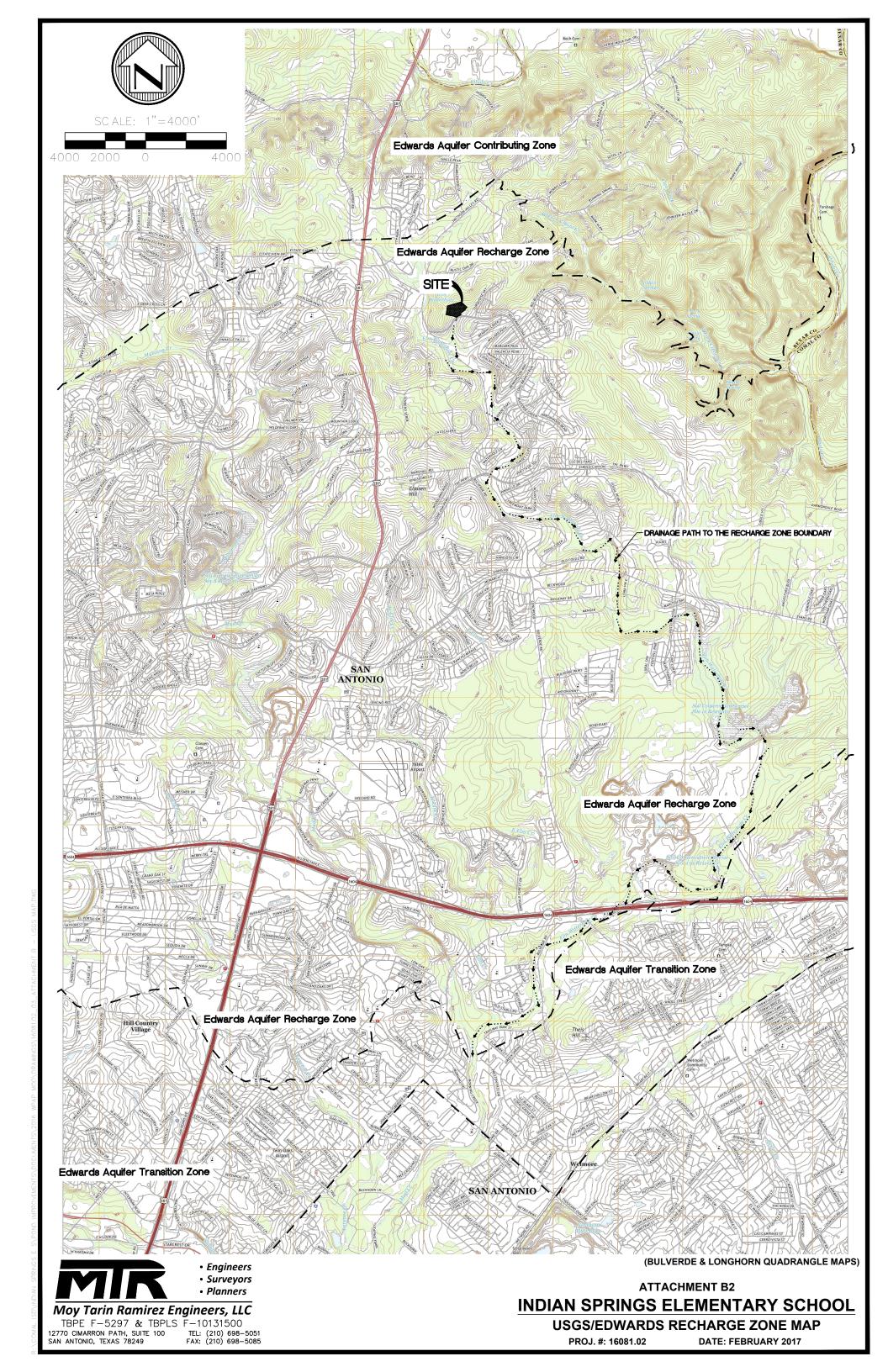
P. COMAL ICPLIND AN CEPINGS F SYDOND IMPROVEMENTS/DOCIMENTS/2018 WEAD MODIVE

TBPE F-5297 & TBPLS F-10131500

TEL: (210) 698-5051 FAX: (210) 698-5085

12770 CIMARRON PATH, SUITE 100

SAN ANTONIO, TEXAS 78249



ATTACHMENT C

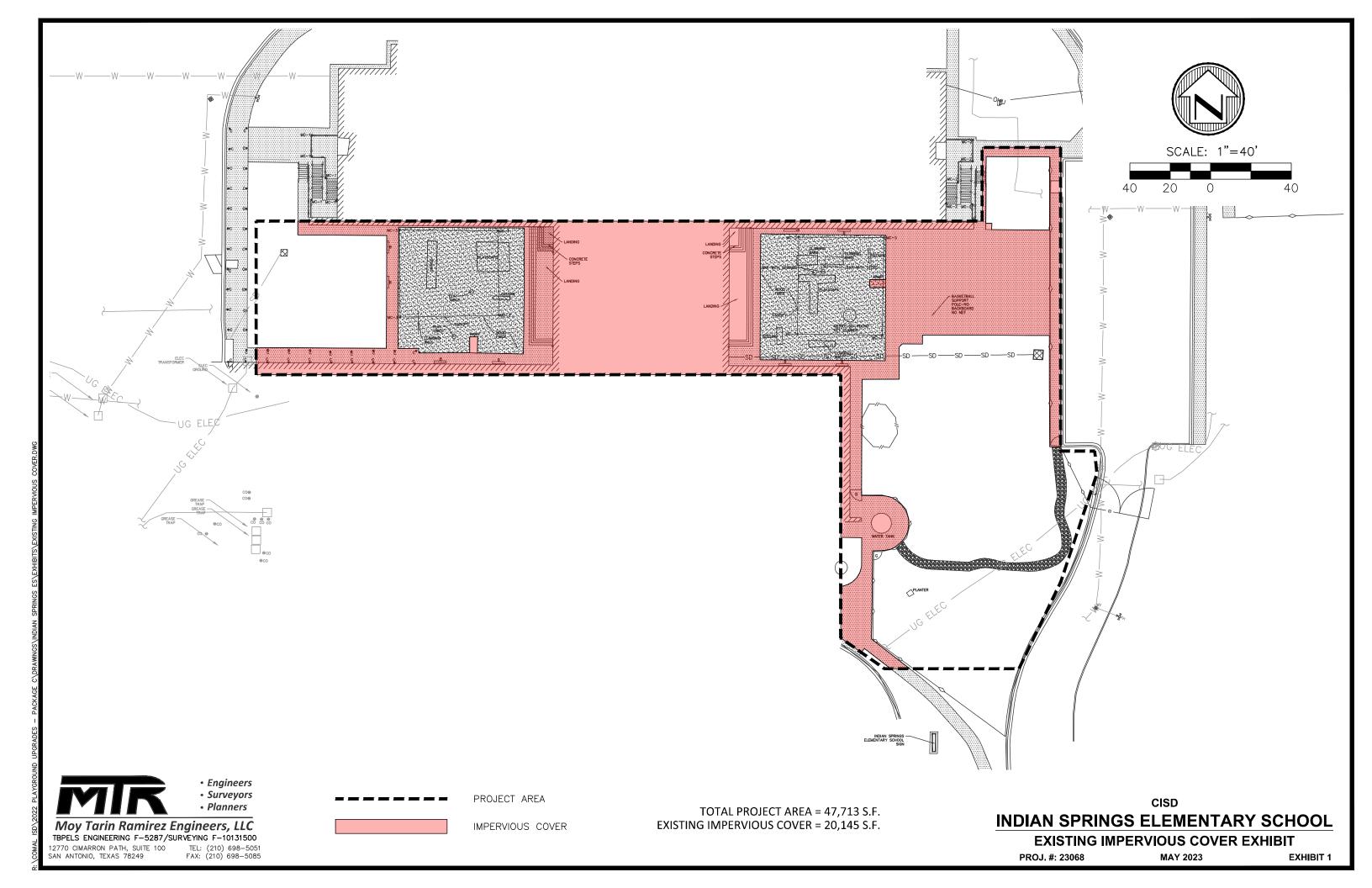
PROJECT DESCRIPTION

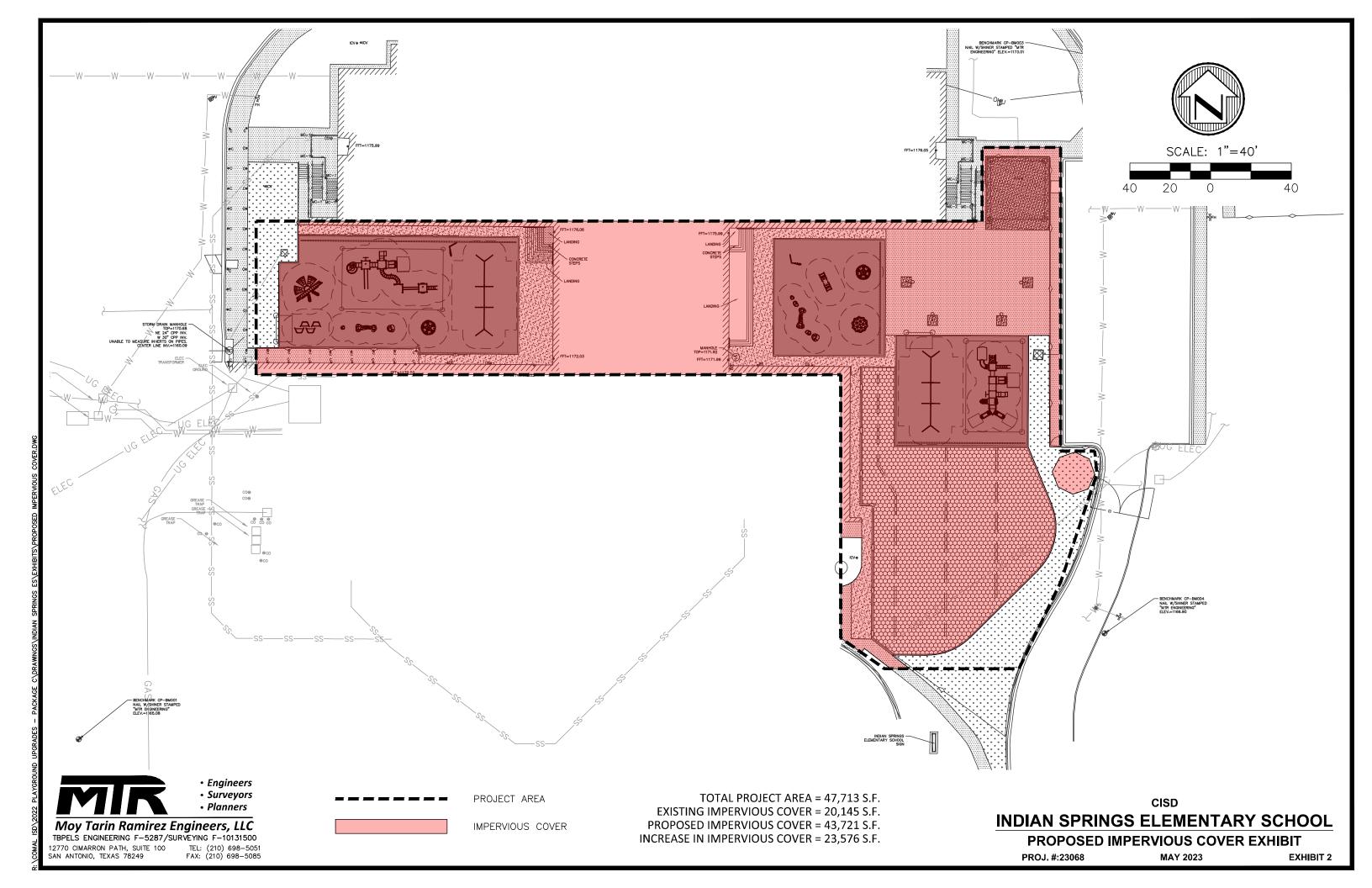
A Water Pollution Abatement Plan (WPAP) was first approved by the Texas Water Commission for the CISD Indian Springs Elementary School on June 16, 2011 for the construction of an elementary school building, as well as associated driveways, parking lots, playgrounds, and athletic fields. A modification to the WPAP was approved on April 18, 2017 for renovation of the existing sand filter basin. The modification did not result in any change to the impervious cover. The proposed project will be providing new playground equipment, new rubberized surface, and artificial turf play areas, associated concrete flatwork, and a new concrete outdoor learning pad.

The existing impervious cover for this site was 6.08 acres (40.00%). This project will result in an increase in impervious cover of 23,576 square feet (0.54 acres) for a total of 6.62 acres of impervious cover (43.55%). A portion of the proposed impervious cover is self-treating synthetic turf. The self-treating synthetic turf accounts for 0.19 acres of proposed impervious cover, resulting in a total of 0.35 acres of new impervious cover that requires treatment. The total amount of impervious cover requiring treatment is 6.43 acres (6.62 total acres of I.C. – 0.19 acres self-treating I.C.).

The site is located at 25751 Wilderness Oak, San Antonio, TX 78261 The property is located in the Edwards Aquifer Recharge Zone.

Current development consists of an Elementary School. The overall acreage of the site is 15.20 acres.





GEOLOGIC ASSESSMENT



Geologic Assessment for the Indian Springs Elementary Tract, Bexar County, Texas

MAY 2023

PREPARED FOR

Moy Tarin Ramirez Engineers, LLC

PREPARED BY

SWCA Environmental Consultants

Texas Board of Professional Geoscientists, Firm Registration No. 50159

GEOLOGIC ASSESSMENT FOR THE INDIAN SPRINGS ELEMENTARY SCHOOL, PLAYGROUND UPGRADES – PACKAGE C – GROUP 4 BEXAR COUNTY, TEXAS

Prepared for

Sean Smith, P.E.

Moy Tarin Ramirez Engineers, LLC

12770 Cimarron Path

San Antonio, Texas 78249

Prepared by

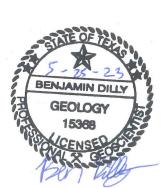
Ben Dilly, P.G. and Philip Pearce, P.G.

SWCA Environmental Consultants

Texas Board of Professional Geoscientists, Firm Registration No. 50159 4949 North Loop 1604 West, Suite 235 San Antonio, Texas, 78249 www.swca.com

SWCA Project No. 81802

May 2023



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Geologic Assessment for the Indian Springs Elementary School	
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1 INTRODUCTION

This narrative Geologic Assessment accompanies the Texas Commission on Environmental Quality (TCEQ) Geologic Assessment form TCEQ-0585 completed of two areas of proposed playground improvements within the Indian Springs Elementary School located within the Edwards Aquifer Recharge Zone on the east side of Highway 281 on Wilderness Oak Rd. in far North San Antonio, Texas. This Project Site consists of two areas of proposed playground improvements within the limits of the school property.

2 METHODOLOGY

SWCA scientists studied information sources pertaining to all reputed caves from the Project Site to gather information related to documented caves in the vicinity prior to conducting field work. These information sources include:

- ESRI® ArcGIS® Online Basemap Map Services;
- U.S. Geological Survey (2013) 7.5-minute topographic digital raster graphics;
- Geologic maps (Barnes 1974); and
- Mapped fault lines (Collins 1993).

An SWCA geologist conducted a field survey for a Geologic Assessment on May 16, 2023. The pedestrian survey was completed by traversing parallel transects spaced approximately 30 to 50 feet apart as directed by the Texas Commission on Environmental Quality (TCEQ) (2004) in the *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (Rev. 10-01-04). The Project Site is located on an existing elementary school property.

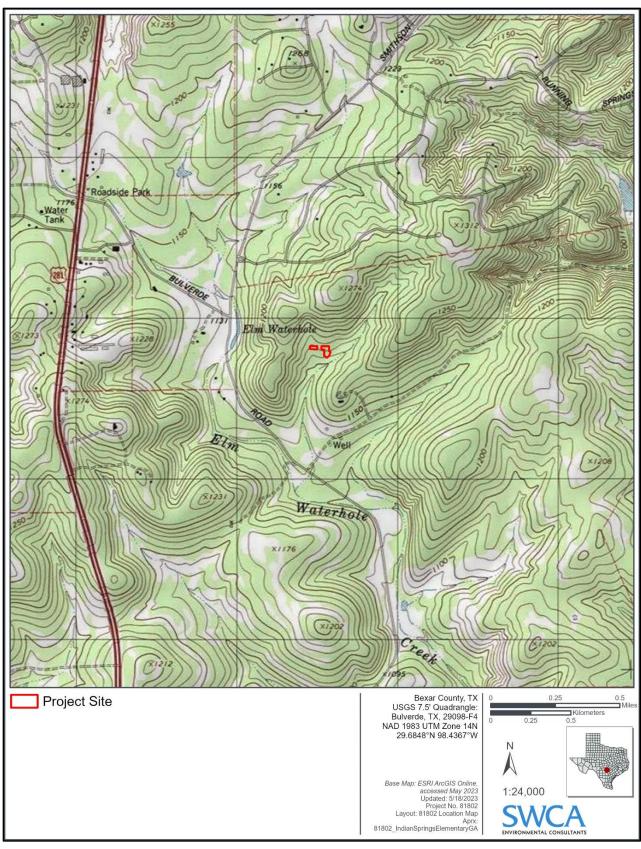


Figure 1. Project Site location map.

3 RESULTS

3.1 Project Site Overview

The Project Site lies within the Recharge Zone of the Edwards Aquifer (TCEQ 2023). Project Site topography ranges from approximately 1170 feet amsl near the southeast corner of the Project Site, to 1180 feet above mean sea level (amsl) at the northwest corner of the Project Site.

The Project Site consists of two areas of proposed playground improvements within an existing, elementary school property. The two areas proposed for improvements include areas that are paved and unpaved. North, east, and west of the Project Site is a single-family residential neighborhood, and south of the site is Wilderness Oak Road followed by a single-family residential neighborhood.

3.2 Geology

The Project Site is underlain by the Cretaceous-age basal nodular member of the Kainer Formation (Kk) of the Edwards Group (Appendix A: Attachment D). Project Site geology has been mapped most recently at a useful scale by Clark et al. (2016) and SWCA finds their interpretation of the geology to be generally accurate. The Stratigraphic Column is included as Attachment B within Appendix A.

The basal nodular member at the base of the Kainer Formation is typically 40–50 ft thick in the study area. The basal nodular member is a moderately hard, shaly, nodular, burrowed mudstone to miliolid grainstone that also contains dolomite (Clark 2016).

The Project Site occurs along the Balcones Fault Zone (BFZ) within the Edwards Aquifer Recharge Zone (TCEQ 2023). Structural down-warping occurred with the Gulf of Mexico's ancestral formation during the middle Tertiary. The earth's crust was stretched in response and the BFZ formed along a zone of weakness, which currently marks the boundary between the Edwards Plateau and the Gulf Coastal Plain in central Texas. The BFZ is characterized by a series of northeast-trending, predominantly normal, nearly vertical, en echelon faults.

Recharge into the Edwards Aquifer primarily occurs in areas where the Edwards Group and Georgetown Formation are exposed at the surface. Most recharge is from direct infiltration via precipitation and streamflow loss. Recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.).

3.3 Soils

The Natural Resources Conservation Service (NRCS) identifies one soil mapping unit, Eckrant very cobbly clay, 5-15% slopes (TaC), within the Project Area (NRCS 2023). This soil type is in the "D" classification of the hydrologic groups, which has a very slow infiltration rate when thoroughly wetted. A map showing the distribution of soil types is included within Appendix A, Attachment D.



Figure 3. Project Site soils map (Natural Resources Conservation Service 2022).

4 HYDROGEOLOGIC ASSESSMENT

The overall potential for fluid migration to the Edwards Aquifer for the Project Site appears relatively low compared to background infiltration rates, due to the presence of paved and landscaped surfaces and a lack of sensitive geologic features.

Because the basal nodular member of the Kainer Formation outcrops on site, the Edwards Group is relatively thin (<50 feet thick) and may not be water bearing. No records of water wells completed within the Edwards Aquifer within the vicinity of the Project Site were found in the Texas Water Development Board online records (TWDB 2023). Water wells drilled in the vicinity of the Project Site are completed in the Middle Trinity Aquifer. Table 2 shows water well number, depth to water and distance from the Project Site (TWDB 2023).

Table 1. Nearby water wells showing depth to water (TWDB 2023).

ID	Aquifer	Depth To Water (feet)	Year Measured	Distance From Project (miles)
68-21-519	Middle Trinity	260-380	2011-2023	0.5
68-21-501	Middle Trinity	450	1972	1

SWCA identified the following two manmade features within the Project Site. The feature locations are presented on the Site Geologic Map included in Appendix A, Attachment D. The features are described below:

- **F-1** Feature F-1 is a storm sewer drain that is an undetermined depth under existing infrastructure. Because the storm drain line is located within a developed area with compacted fill, the probability of rapid infiltration is low.
- **F-2** Feature F-2 is a storm sewer drain that is an undetermined depth under existing infrastructure. Because the storm drain line is located within a paved area with compacted fill, the probability of rapid infiltration is low.

5 REFERENCES

- Barnes, V.E. 1974. Geologic Atlas of Texas, San Antonio Sheet. University of Texas at Austin, Bureau of Economic Geology. Scale 1:250,000.
- Clark, A.K., Golab, J.A., and Morris, R.R., 2016, Geologic framework and hydrostratigraphy of the Edwards and Trinity aquifers within northern Bexar and Comal Counties, Texas, U.S. Geological Survey, Scientific Investigations Map SIM-3366, 1:24,000.
- Collins, E.W., 1993, Geologic map of the Bulverde quadrangle, Texas, University of Texas at Austin, Bureau of Economic Geology, Open-File Map OFM0095, 1:24,000.
- Natural Resources Conservation Service (NRCS). 2023. United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database. Available at: http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm. Accessed May, 2023.
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———. 2023. Edwards Aquifer Viewer v5.0. Available online at: https://www.tceq.texas.gov/gis/edwards-viewer.html. Accessed May 2023.

Texas Water Development Board (TWDB). 2023. Water Data Interactive— Viewer. Available online at: https://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer. Accessed May 2023.

U.S. Geological Survey. 2022. Bulverde, Anhalt, Texas 7.5-minute quadrangle topographic maps.

APPENDIX A

Texas Commission on Environmental Quality (TCEQ) Forms

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.

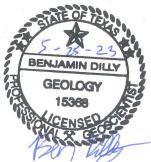
Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

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

Project Information	
Regulated Entity Name: Indian Springs Elemer	ntary, Playground Updrades - Package C - Group 4
Ben Rilly	
Signature of Geologist:	
Representing: <u>SWCA Environmental Consultan</u> Company and TBPG or TBPE registration numb	,
Date: <u>5/25/2023</u>	
	Fax: <u>210.877.2848</u>
Print Name of Geologist: Ben Dilly, P.G.	Telephone: <u>210.877.2847</u>
213.	

1.	Date(s) Geologic Assessment was performed: May	<u>16, 2023</u>
2.	Type of Project:	
3.	WPAP SCS Location of Project:	AST UST
	Recharge Zone Transition Zone	



	Contributir	ng Zone w	ithin the Transitio	n Zone
4.	. Attachment A - Geologic Assessment Table. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.			
5.	Hydrologic 55, Append	Soil Grou dix A, Soil	ps* (Urban Hydro Conservation Serv	rized in the table below and uses the SCS logy for Small Watersheds, Technical Release No. vice, 1986). If there is more than one soil type on the site Geologic Map or a separate soils map.
	ble 1 - Soil Ur aracteristics	=		* Soil Group Definitions (Abbreviated) A. Soils having a high infiltration
	Soil Name	Group*	Thickness(feet)	rate when thoroughly wetted. B. Soils having a moderate
	TaC: Eckrant ry cobbly clay	D	1-2	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.	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.	including a potential for	ny feature or fluid me	es identified in the	e Geologic Assessment Table, a discussion of the dwards Aquifer, stratigraphy, structure(s), and
8.			Geologic Map(s). Plan. The minimur	The Site Geologic Map must be the same scale as m scale is 1": 400'
	Site Geolog	gic Map So	Scale: 1" = <u>10</u> ' cale: 1" = <u>10</u> ' (if more than 1 so	il type): 1" = <u>416</u> '
9.	Method of coll	ecting po	sitional data:	
	=		rstem (GPS) techne ease describe metl	ology. hod of data collection:
10.				early shown and labeled on the Site Geologic Map.

11. $ imes$ 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 describe in the attached Geologic Assessment Table.
Geologic or manmade features were not discovered on the project site during the fie 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 (#) 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.

ATTACHMENT A

Geologic Assessment Table

GEOLO	GIC ASSES	SSMENT T	ABLE				PR	OJE	CT NAM	ΛE:	India	n Spri	ngs E	lementa	ry Tra	ct				
	LOCATION	1				FEA	TUR	E CH	IARAC1	ER	STICS	3			EVAL	_UA1	TION	PH	/SICA	L SETTING
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9		10	1	1	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NSIONS	(FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY		ENT AREA RES)	TOPOGRAPHY
						Х	Υ	Z		10						<40	<u>>40</u>	<1.6	<u>>1.6</u>	
F-1	29.684950°	-98.436248°	MB	30	Kek					0			N	5	35	Χ		Χ		Hillside
F-2	29.685090°	-98.437424°	MB	30	Kek					0			N	5	35	Х		Х		Hillside

* DATUM: NAD83

2A TYPE	TYPE	2B POINTS
С	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
0	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

N	None, exposed bedrock
С	Coarse - cobbles, breakdown, sand, gravel
0	Loose or soft mud or soil, organics, leaves, sticks, dark colors
-	Fine constant delication and another all mostly many and allow

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

8A INFILLING

12 TOPOGRAPHY

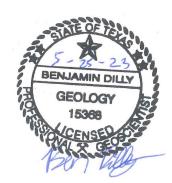
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

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.

Ben Pilly
______ Date 5/25/2023

Sheet 1 of 1



ATTACHMENT B

Stratigraphic Column

Stratigraphic Column

Note: The shaded areas represent the lithology that outcrops on the property.¹

	Upper Confining Units			Navarro and Taylor Groups, undivided; 600 feet thick				
snoəc				Austin Group; 130-150 feet thick				
Upper Cretaceous				Eagle Ford Group; 30-50 feet thick				
Uppe				Buda Limestone; 40-50 feet thick				
				Del Rio Clay; 40-50 feet thick				
	I		Georgetown Formation	10-40 feet thick				
	II			Person Formation;	Cyclic and Marine member, undivided			
	III	quifer	quifer	170-200 feet thick	Leached and Collapsed member, undivided			
aceons	IV	Edwards Aquifer	Group		Regional Dense member			
Lower Cretaceous	V	Edwa	Edwards Group	Kainer Formation;	Grainstone member			
Low	VI			260-310 feet thick	Kirschberg Evaporite member			
	VII				Dolomitic member			
	VIII				Basal Nodular member			
	Lower Confining Units			Glen Rose Formation; 3	50-500 feet thick			

¹ Blome, C.D., Faith, J.R., Pdraza, D.E, Ozuna, G.B, Cole, J.C., Clark, A.K., Small, T.A., and Morris, R.R. 2005. Geologic map of the Edwards aquifer recharge zone, south-central-Texas. U.S. Geological Survey SIM-2873. Scale 1:200,000.

ATTACHMENT C

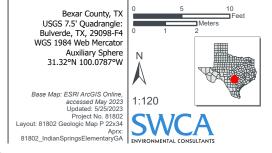
Narrative Description of Geology

Please refer to section 3.2 of this report for geologic narrative description.

ATTACHMENT D

Site Geologic Map and Soils Map





GEOLOGY



Please refer to section 3.3 of this report for the soils map.

ATTACHMENT E

Photographic Log



Photograph 1. Representative view of the Project Site.



Photograph 2. Representative view of the Project Site.



Photograph 3. Photograph of feature F-1.



Photograph 4. Photograph of feature F-2.

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: Sean Smith, P.E.

Date: 05/31/2023

Signature of Customer/Agent:

Project Information

1.	Current Regulated Entity Name: CISD INDIAN SPRINGS ELEMENTARY SCHOOL
	Original Regulated Entity Name: CISD INDIAN SPRINGS ELEMENTARY SCHOOL
	Regulated Entity Number(s) (RN): 106117658
	Edwards Aquifer Protection Program ID Number(s): 2974.00
	The applicant has not changed and the Customer Number (CN) is: 600249825
	The applicant or Regulated Entity has changed. A new Core Data Form has been
	provided.
_	

Physical or operation including but not lim diversionary structur Change in the nature originally approved or plan to prevent pollution abatement Physical modification Physical modification	or character of the regulated activer a change which would significant ition of the Edwards Aquifer; I previously identified as undevelor	cion abatement structure(s) ge treatment plants, and vity from that which was tly impact the ability of the ped in the original water e collection system; rage tank system;
plan has been modified	lodifications (select plan type being more than once, copy the appropri the information for each addition	ate table below, as
WPAP Modification	Approved Project	Proposed Modification
Summary		
Acres	See Attached Summary	<u>15.20</u>
Type of Development		Elementary School
Number of Residential		<u>N/A</u>
Lots		
Impervious Cover (acres)		<u>6.62</u>
Impervious Cover (%		<u>43.55</u>
Permanent BMPs		Sand Filter Basin
Other		<u>N/A</u>
SCS Modification	Approved Project	Proposed Modification
Summary		
Linear Feet		
Pipe Diameter		
Other		

AST M	odification	Approved Project	Proposed Modification
Summo	ary		
Numbe	er of ASTs		
Volum	e of ASTs		
Other			
UST M	odification	Approved Project	Proposed Modification
Summo	ary		
Numbe	er of USTs		
Volum	e of USTs		
Other			
5. 🔀	the nature of the proposed	of Proposed Modification. A detadd modification is attached. It discudifications, and how this proposed	usses what was approved,
6.	the existing site developm modification is attached. Modification is required elements any subsequent modification document that the approved construction illustrates that the site The approved construction illustrates that the site The approved construction approved construction The approved construction a	ction has not commenced. The original transfer include ication approval letters are include	e time this application for roposed in the submitted ginal approval letter and ed as Attachment A to n completed. Attachment Concepted. Attachment Concepted as approved. Eructed as approved.
7.	provided for the new acre	ed plan has increased. A Geologic age. ed to or removed from the approv	
8. 🔀	needed for each affected i county in which the project	d one (1) copy of the application, p ncorporated city, groundwater con it will be located. The TCEQ will di ns. The copies must be submitted	nservation district, and stribute the additional

SUMMARY OF PREVIOUS & PROPOSED MODIFICATIONS

WPAP Modification Summary	Pre-June 1, 1999	Original WPAP	Proposed Project Modification 1	Proposed Project Modification 2
Acres	15.20	15.20	15.20	15.20
Type of Development	Undeveloped	Elementary School	Elementary School	Elementary School
Number of Residential Lots	N/A	N/A	N/A	N/A
Total Impervious Cover (acres)	N/A	6.08	6.08	6.62
Impervious Cover (%)	N/A	40.00%	40.00%	43.55%
Permanent BMPs	N/A	Sand Filter Basin	Sand Filter Basin	Sand Filter Basin
Other	N/A	N/A	N/A	N/A
Approval Letter Date	N/A	June 16, 2011	April 18, 2017	TBD

ATTACHMENT A

ORIGINAL AND MODIFICATION APPROVAL LETTERS

Bryan W. Shaw, Ph.D., Chairman Buddy Garcia, Commissioner Carlos Rubinstein, Commissioner Mark R. Vickery, P.G., Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 16, 2011

Mr. Thomas Bloxham Comal Independent School District 1404 IH-35 North New Braunfels, TX 78130

Re: Edwards Aquifer Protection Program, Bexar County

Name of Project: Indian Springs Elementary School; Located on the north side of Wilderness Oaks, west of Bulverde Rd., San Antonio, Texas

Type of Plan: Request for the Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Edwards Aquifer Protection Program San Antonio File No. 2974.00; Investigation No. 912598; Regulated Entity No. RN106117658

Dear Mr. Bloxham:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP application for the above-referenced project submitted to the San Antonio Regional Office by Gil Engineering, Inc. on behalf of Comal ISD on March 30, 2011. Final review of the WPAP was completed after additional material was received on May 26, 2011 and June 16, 2011. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aguifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

Project Description

The proposed school project will have an area of approximately 15.20 acres. It will include the construction of the school building, turn lanes, driveways and parking areas. The impervious cover will be 6.08 acres total with 5.10 acres of impervious cover located onsite (33.56 percent).

REPLY TO: REGION 13 • 14250 JUDSON RD. • SAN ANTONIO, TEXAS 78233-4480 • 210-490-3096 • FAX 210-545-4329

Project wastewater will be disposed of by conveyance to the existing Dos Rios Water Recycling Center owned by the San Antonio Water System.

Permanent Pollution Abatement Measures

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a sand filter basin, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 4,961 pounds of TSS generated from the 6.08 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The earthen sand filter basin has been designed for a drainage area of 7.89 acres with 5.60 acres of impervious cover and will account for 4,961 pounds of TSS. The amount includes compensation for 0.48 acres of impervious cover that is not captured by the basin. The basin will have a total water quality volume of 53,210 cubic feet (46,072 cubic feet required) and a sand filter area of 3,839 square feet (4,047 square feet required). The basin will have sloped floors leading to the underdrain pipes and contain at least 18 inches of sand and three inches of gravel around six inch schedule 40 PVC perforated pipes.

Geology

According to the geologic assessment included with the application, the site is located on the Person Formation of the Edwards Group. The project geologist evaluated six geologic features and scored the features as not sensitive. The San Antonio Regional Office site assessment conducted on June 13, 2011 revealed the site as adequately described by the geologic assessment.

Special Conditions

- 1. The permanent BMP shall be operational prior to occupancy of the facility.
- 2. All sediment and/or media removed from the permanent BMP during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

Standard Conditions

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

Prior to Commencement of Construction:

- 4. 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 WPAP 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 WPAP 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 WPAP 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 WPAP, 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 are located onsite. 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 storm 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 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.

If you have any questions or require additional information, please contact Charly Fritz of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4065.

Sincerely,

Mark R. Vickery, P.G., Executive Director Texas Commission on Environmental Quality

MRV/CEF/eg

Enclosures:

Deed Recordation Affidavit, Form TCEQ-0625

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

10263

cc:

Mr. Victor Gil, P.E., Gil Engineering Associates, Inc.

Mr. Scott Halty, San Antonio Water System

Ms. Renee Green, P.E., Bexar County Public Works

Mr. Karl Dreher, General Manager, Edwards Aquifer Authority

Mr. George Wissmann, Trinity Glen Rose UCD TCEO Central Records, Building F, MC 212

Bryan W. Shaw, Ph.D., P.E., Chairman Toby Baker, Commissioner Jon Niermann, Commissioner Richard A. Hyde, P.E., Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 18, 2017

Mr. John Tucker Comal Independent School District 1404 IH-35 North New Braunfels, Texas 78130-2817

Re: Edwards Aquifer, Bexar County

NAME OF PROJECT: CISD Indian Springs; Located approximately 1,760 feet east of the intersection of Wilderness Oak & Bulverde Road; San Antonio, Texas

TYPE OF PLAN: Request for Modification of an Approved Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN106117658; Additional ID No. 13000346

Dear Mr. Tucker:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP modification for the above-referenced project submitted to the San Antonio Regional Office by Moy Tarin Ramirez Engineers, LLC on behalf of Comal Independent School District on February 24, 2017. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

BACKGROUND

The original Indian Springs Elementary School project was approved by letter dated June 16, 2011. The project was approved to construct a school building, turn lanes, driveways and parking areas on a 15.20 acre site. The impervious cover was 6.08 acres.

PROJECT DESCRIPTION

The proposed project will have an area of approximately 15.20 acres. It will include the construction of a permanent BMP interceptor channel and a physical modification of the existing sedimentation/filtration basin from an earthen basin to a concrete lined basin. The impervious cover will be 6.08 acres (40 percent). Project wastewater will be disposed of by conveyance to the existing Dos Rios Water Recycling Center owned by the San Antonio Water System.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, the existing partial sedimentation/filtration basin, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be modified and will continue to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 4,961 pounds of TSS generated from the 6.08 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The partial sedimentation/filtration basin will be modified to have a concrete liner and is designed with a 4 inch perforated PVC underdrain system that will be covered with a minimum 6 inch gravel layer. Geotextile fabric will be placed over the gravel layer and topped with a minimum of 18 inches of sand (ASTM C-33 compliant). The basin is designed with a water quality volume of 54,837 cubic feet (46,072 cubic feet required), and a sand filter area of 5,445 square feet (3,839 square feet required).

GEOLOGY

According to the geologic assessment included with the application, the site is located over the Person Formation of the Edwards Group. The project geologist identified six non-sensitive features; four closed depressions, one solution cavity, and one other feature in bedrock. The San Antonio Regional Office did not conduct a site assessment.

SPECIAL CONDITIONS

- I. This modification is subject to all Special and Standard Conditions listed in the WPAP approval letter dated June 16, 2011.
- II. All sediment and/or media removed from the water quality basin during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.
- III. This letter does not authorize the discharge of total suspended solids during basin modification activities. Practices and measures must be implemented to meet requirements for sediment removal while the basin is being modified.

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 WPAP 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 WPAP 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 WPAP 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 WPAP, 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 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 Mr. Alex Grant of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4035

Sincerely,

Lynn Bumguardner, Water Section Manager

San Antonio Region

Texas Commission on Environmental Quality

LB/AG/eg

CC:

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625

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

Mr. Duane A. Moy, Moy Tarin Ramirez Engineers, LLC

Ms. Renee Green, P.E., Bexar County Public Works

Mr. George Wissmann, Trinity Glen Rose GCD

Mr. Scott Halty, San Antonio Water System

Mr. Roland Ruiz, Edwards Aquifer Authority

ATTACHMENT B

NARRATIVE OF PROPOSED MODIFICATION

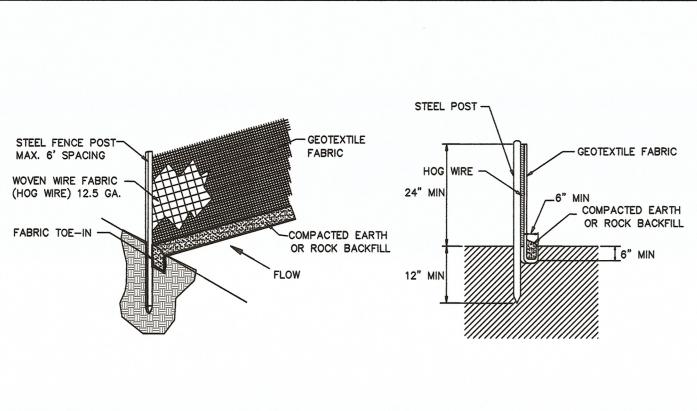
A Water Pollution Abatement Plan (WPAP) was first approved by the Texas Commission on Environmental Quality on June 16, 2011. The WPAP was then modified on April 18, 2017 to correct deficiencies in the existing sand filter basin. This modification will consist of the demolition and construction of playground equipment, the installation of rubberized surface, the construction of artificial turf, the construction of shade structures, and the construction of associated flatwork. The proposed impervious cover will drain to the existing sand filter basin, which has sufficient capacity to treat the increase in impervious cover without any modification to the basin. The proposed total impervious cover for the site will be 6.62 acres. The impervious cover will be increased by 0.54 acres from the previous WPAP approval. A portion of the proposed impervious cover is considered self-treating synthetic turf due to the presence of an underdrain and liner. Therefore, only 6.43 acres of impervious cover is required to be treated.

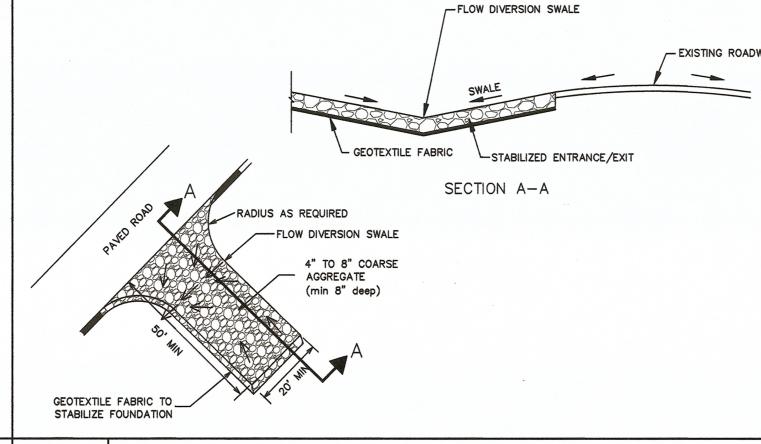
ATTACHMENT C

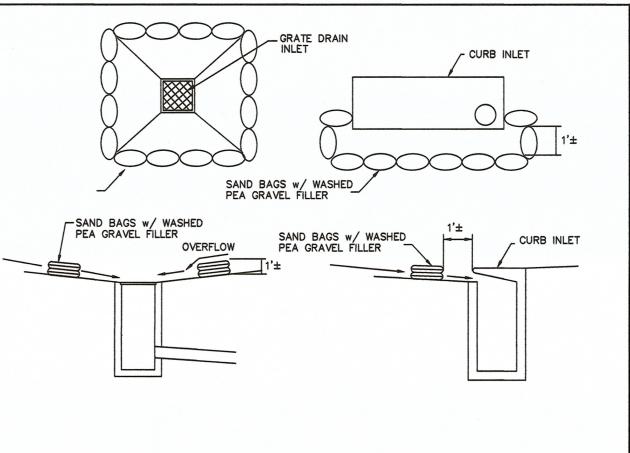
CURRENT SITE PLAN OF THE APPROVED PROJECT

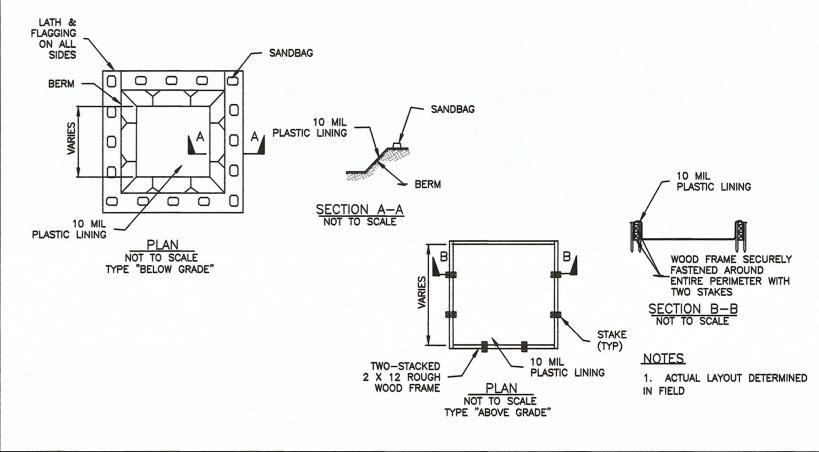
GENERAL NOTES

- I. LOCATIONS OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS ARE LABELED. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT
- 2. SOIL STABILIZATION PRACTICES SHALL OCCUR OVER THE AREAS DISTURBED THROUGH THE USE OF CONCRETE, GRASS SOD, GRASS SEEDING AND/OR MULCH.
- 3. THERE ARE NO SURFACE WATERS ON THE SITE; THUS, THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER. 4. AREAS OF SOIL DISTURBANCE ARE WITHIN THE DASHED
- BLUE BOUNDARY SHOWN HEREIN. ALL OTHER AREAS WILL NOT BE DISTURBED. 5. THERE IS NO EXISTING 100 YEAR FEMA FLOODPLAIN ON
- THE SITE (FIRM PANELS NO:48029C0140G AND 48029C0145G, DATED SEPTEMBER 29, 2010).
- 6. A TCEQ APPROVED EDWARDS AQUIFER WATER POLLUTION ABATEMENT PLAN (WPAP) EXISTS FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS SET FORTH BY SAID PLAN AND TCEQ APPROVAL CONDITIONS.
- SILT FENCE, CONSTRUCTION ENTRANCES/EXITS, INLET PROTECTION, AND OTHER TEMPORARY BMPs SHOWN ARE TO BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.









SCALE: NONE

SILT FENCE DETAIL

SCALE: NONE

TEMPORARY STABILIZED **CONSTRUCTION ENTRANCE / EXIT**

BAGGED GRAVEL INLET FILTER (BGIF) SCALE: NONE

CONCRETE TRUCK WASHOUT PIT

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

Edwards Aquifer Protection Program Construction Notes - Legal Disclaims

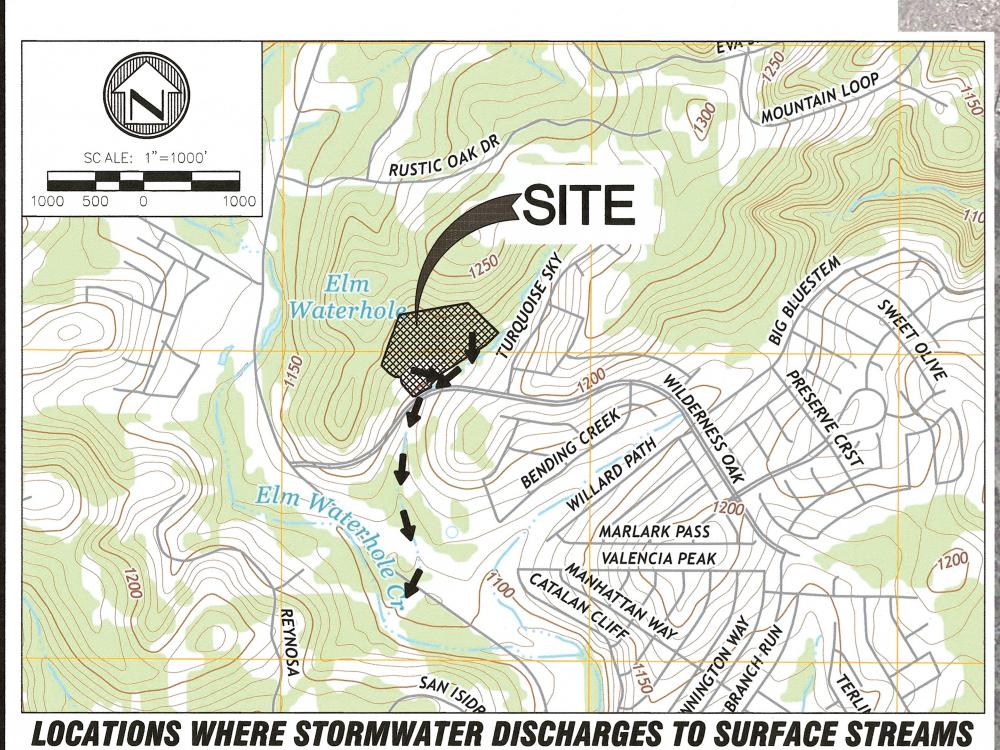
The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may 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

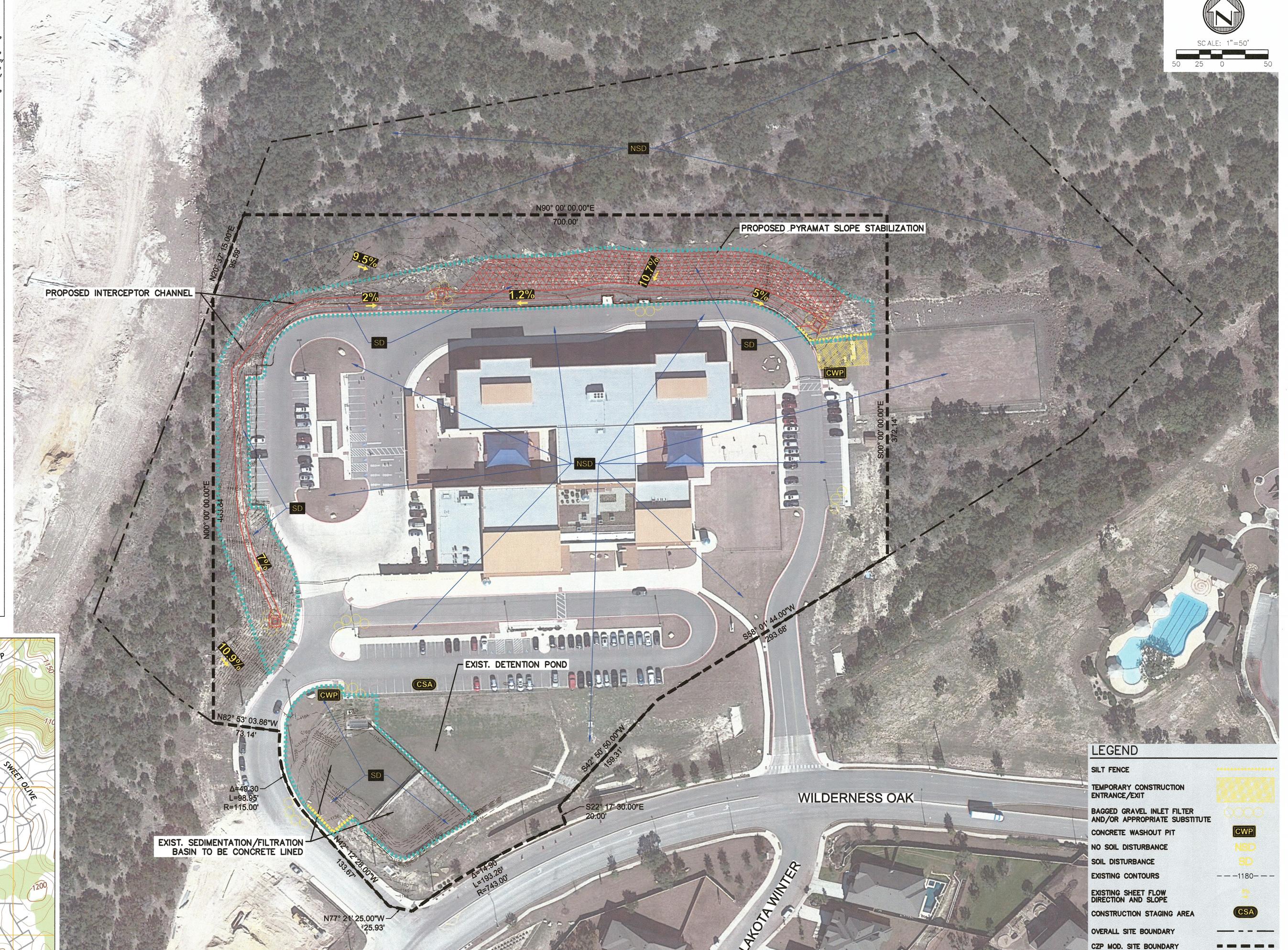
- A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This
- notice must include: the name of the approved project;
- the activity start date; and
- the contact information of the prime contractor.
- All contractors 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.
- 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.
- 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.
- 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.
- 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.
- Sediment must be removed from the sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.
- Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
- 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.
- 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 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.
- 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.
- 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:
- . 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;
- any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office San Antonio Regional Office 14250 Judson Road 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 San Antonio, Texas 78233-4480 Phone (512) 339-2929 Phone (210) 490-3096 Fax (512) 339-3795 Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

TCEQ-0592 (Rev. July 15, 2015)







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NSD / SD LIMITS

PROPOSED IMPROVEMENT

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: Sean Smith, P.E.
Date: <u>05/31/2023</u>
Signature of Customer/Agent:
hut
Regulated Entity Name: CISD INDIAN SPRINGS ELEMENTARY SCHOOL
Regulated Entity Information

The type of project is:
Residential: Number of Lots:_____
Residential: Number of Living Unit Equivalents:_____
Commercial
Industrial
Other: Elementary School

- 2. Total site acreage (size of property): 15.20
- 3. Estimated projected population: +/- 775
- 4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	57,476	÷ 43,560 =	1.32
Parking	97,323	÷ 43,560 =	2.23
Other paved surfaces	133570	÷ 43,560 =	3.07
Total Impervious Cover	288,367	÷ 43,560 =	6.62

Total Impervious Cover $\underline{6.62}$ ÷ Total Acreage $\underline{15.20}$ X 100 = $\underline{43.55}$ % 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. $L \times W = Ft^2 \div 43,560 Ft^2/Acre = acres.$
10.	Length of pavement area: feet.
	Width of pavement area: feet. L x W = $Ft^2 \div 43,560 Ft^2/Acre = acres$. Pavement area acres \div 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.

TCEQ Executive Director. Modif	ting roadways that do not require approval from the fications to existing roadways such as widening g more than one-half (1/2) the width of one (1) existing in the TCEQ.
Stormwater to be gener	ated by the Proposed Project
volume (quantity) and characte occur from the proposed project quality and quantity are based	aracter of Stormwater. A detailed description of the er (quality) of the stormwater runoff which is expected to et is attached. The estimates of stormwater runoff on the area and type of impervious cover. Include the both pre-construction and post-construction conditions
Wastewater to be gener	rated by the Proposed Project
14. The character and volume of waste	water is shown below:
75% Domestic 25% Industrial% Commingled TOTAL gallons/day 4,000	3,000 Gallons/day 1,000 Gallons/day Gallons/day
15. Wastewater will be disposed of by:	
On-Site Sewage Facility (OSSF/S	Septic Tank):
will be used to treat and dis licensing authority's (authority the land is suitable for the uthe requirements for on-sit relating to On-site Sewage I Each lot in this project/devesize. The system will be des	Letter from Authorized Agent. An on-site sewage facility spose of the wastewater from this site. The appropriate rized agent) written approval is attached. It states that use of private sewage facilities and will meet or exceed a sewage facilities as specified under 30 TAC Chapter 285 Facilities. Elopment is at least one (1) acre (43,560 square feet) in signed by a licensed professional engineer or registered a licensed installer in compliance with 30 TAC Chapter
Sewage Collection System (Sew	er Lines):
to an existing SCS.	the wastewater generating facilities will be connected the wastewater generating facilities will be connected
The SCS was previously substituted.The SCS was submitted with.The SCS will be submitted a be installed prior to Execution.	t this application. t a later date. The owner is aware that the SCS may not

	The sewage collection system will convey the wastewater to the <u>SAWS Salado Creek</u> <u>WW</u> (name) Treatment Plant. The treatment facility is:	
	☑ Existing.☐ Proposed.	
16.	. $igorimes$ 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.	. \square The Site Plan must have a minimum scale of 1" = 400'.	
	Site Plan Scale: 1" = <u>10</u> '.	
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): FEMA Maps #48029C0140G & #48029C0145G, dated Sept. 29, 2010 	
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 $\underline{0}$ (#) 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. 	
	igspace 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).
\boxtimes	N/A
27.	Locations where stormwater discharges to surface water or sensitive features are to occur.
\boxtimes	There will be no discharges to surface water or sensitive features.
28. 🔀	Legal boundaries of the site are shown.
Adn	ninistrative 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 WATER QUALITY

Landscaping, vehicular traffic, and various construction activities may affect the quality of stormwater originating on the proposed site. These factors may cause small amounts of oil, grease, suspended solids, fertilizers, and pesticides to enter into the stormwater runoff. However, temporary BMPs have been designed on the basis of the Technical Guidance Manual to treat the required amount of stormwater runoff as to not adversely affect water quality entering into any surface water or groundwater.

ATTACHMENT B VOLUME AND CHARACTER OF STORMWATER

Volume

The rational method (Q=CIA) was used to calculate the 25-year storm event. The following areas and volumes were calculated:

On-Site Drainage Area A

Existing Conditions
Area = 7.89 acres
Impervious Cover = 5.60 acres
Runoff Coefficient = 0.81
Percent Impervious = 70.98%
Q₂₅ = 71.48 cfs

Proposed Conditions
Area = 7.89 acres
Impervious Cover = 6.14 acres
Runoff Coefficient = 0.85
Percent Impervious = 77.82%
Q₂₅ = 74.87 cfs

Character of Storm Water

Stormwater runoff generated from the site during construction will be typical of an elementary school educational facility with buildings, parking lots, and basin maintenance projects. The runoff should consist of small amounts of suspended solids created by sediments from disturbed soils, construction dust, sawdust and hydrocarbons from construction equipment. Temporary BMP's have been selected from the TCEQ Publication, "Complying with the Edwards Aquifer Rules: Technical Guidance for Best Management Practices," to treat the required volume and character of storm water runoff to remove the increased total suspended solids (TSS) due to the proposed maintenance activities. Permanent stabilization of areas where soil is disturbed by construction activities will be accomplished by solid sodding in those areas.

Stormwater runoff generated after construction is complete will also be typical of an elementary school educational facility. The runoff will contain sediments from rooftops, driveways, parking lots, sidewalks, landscape areas, and other miscellaneous impervious areas from the site. The runoff may contain small amounts of oil, grease, suspended solids, fertilizers, and pesticides. The post construction runoff will be treated through the existing grassy swales, VFS, and extended detention basin, as well as the proposed JellyFish filter and VFS.

ATTACHMENT C WPAP SITE PLAN

- WRITTEN CONSTRUCTION NOTIFICATION MUST BE GIVEN TO THE APPROPRIATE TCEQ REGIONAL OFFICE NO LATER THAN 48 HOURS PRIOR TO COMMENCEMENT OF THE REGULATED ACTIVITY. INFORMATION MUST INCLUDE THE DATE ON WHICH THE REGULATED ACTIVITY WILL COMMENCE, THE NAME OF THE APPROVED PLAN FOR THE REGULATED ACTIVITY, AND THE NAME OF THE PRIME CONTRACTOR AND THE NAME AND TELEPHONE NUMBER OF THE CONTACT PERSON.
- 2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN 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 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. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROTECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.
- 4. NO TEMPORARY ABOVEGROUND HYDROCARBON AND HAZARDOUS SUBSTANCE STORAGE TANK SYSTEM IS INSTALLED WITHIN 150 FEET OF A DOMESTIC, INDUSTRIAL, IRRIGATION, OR PUBLIC WATER SUPPLY WELL, OR OTHER SENSITIVE FEATURE.
- 5. PRIOR TO COMMENCEMENT OF CONSTRUCTION, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. CONTROLS SPECIFIED IN THE TEMPORARY STORM WATER SECTION OF THE APPROVED EDWARDS AQUIFER PROTECTION PLAN ARE REQUIRED DURING CONSTRUCTION. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THE CONTROLS MUST REMAIN IN PLACE UNTIL DISTURBED AREAS ARE REVEGETATED AND THE AREAS HAVE BECOME PERMANENTLY STABILIZED.
- 6. 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).
- 7. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS NOT LATER THAN WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%. A PERMANENT STAKE MUST BE PROVIDED THAT CAN INDICATE WHEN THE SEDIMENT OCCUPIES 50% OF THE BASIN VOLUME.
- 8. 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).
- 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. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE TEMPORARILY OR PERMANENTLY CEASED. 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 MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY HAS
- 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.

TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SEASONAL ARID CONDITIONS,

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:

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

- 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 2800 S. IH 35, SUITE 100 AUSTIN, TEXAS 78704-5712 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

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

GENERAL NOTES:

- 1. PROVIDE BAGGED GRAVEL INLET FILTERS AT ALL EXPOSED DRAINAGE
- 3. LOCATIONS OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS

2. SOIL DISTURBANCES WILL OCCUR OVER PARTS OF SITE AS INDICATED

- 4. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT
- 5. SOIL STABILIZATION PRACTICES SHALL OCCUR OVER THE ENTIRE SITE WITH THE USE OF PAVEMENT, BUILDINGS, SIDEWALKS, GRASS SOD,
- GRASS SEEDING AND MULCH.
- 6. THERE ARE NO LOCATIONS WHERE STORM WATER DISCHARGES TO
- 7. CONTRACTOR SHALL MODIFY PLAN AS NECESSARY TO PROVIDE FOR PROPER STORM WATER POLLUTION PREVENTION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. ALL MODIFICATIONS ARE TO BE NOTED ON CONTRACTOR'S COPY OF

THE WPAP SITE PLAN DRAWING AND REPORT ON THE PROJECT SITE.

8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER POLLUTION CONTROLS OF THE PROJECT SITE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.

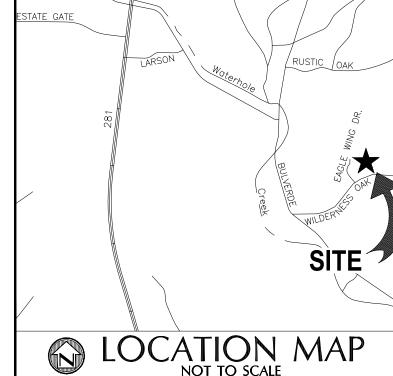
SITE INFORMATION:

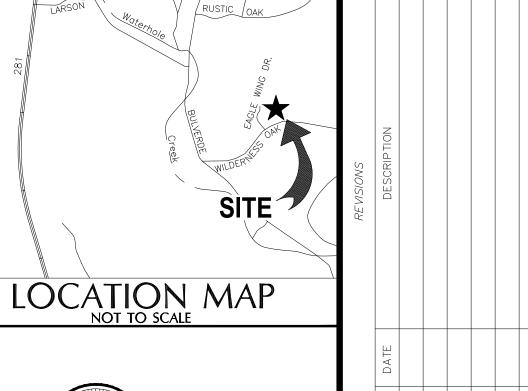
- DATA ON INDICATED SUBSURFACE CONDITIONS ARE NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF ACCURACY OR CONTINUITY BETWEEN SOIL BORINGS. IT IS EXPRESSLY UNDERSTOOD THAT THE OWNER, ARCHITECT, AND/OR STRUCTURAL, CIVIL OR MECHANICAL, PLUMBING OR ÉLECTRICAL ENGINÉER WILL NOT BE RESPONSIBLE FOR
- INTERPRETATIONS OR CONCLUSIONS DRAWN THEREFROM BY CONTRACTOR. DATA ARE MADE AVAILABLE FOR CONVENIENCE OF CONTRACTOR ONLY AND AS SUCH, THE SOIL BORINGS ARE NOT CONSIDERED TO BE A PART OF THESE CONTRACT DOCUMENTS. THE CONTRACTOR MAY, AT HIS OPTION, OBTAIN A COPY OF THE GEOTECHNICAL

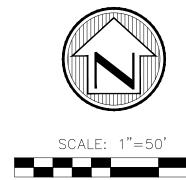
PROPERTY DATA:

1) SIZE ~ 15.20 ACRES 2) LOTS ~ 1 LOT

3) OWNER ~ COMAL INDEPENDENT SCHOOL DISTRICT





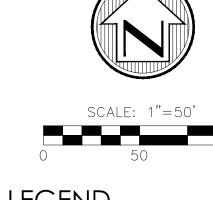


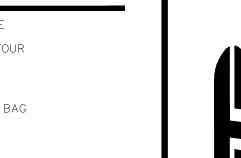


PROPERTY LINE EXISTING CONTOUR SAND/GRAVEL BAG

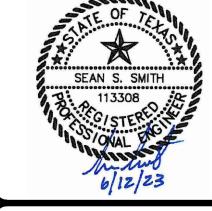
> ROCK BERM GRAVEL INLET FILTER

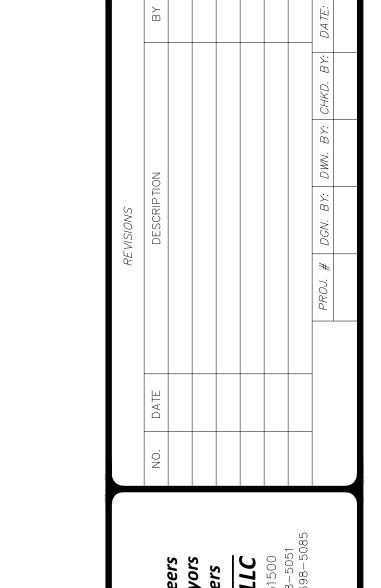
NEW CONCRETE SIDEWALK/FLATWORK

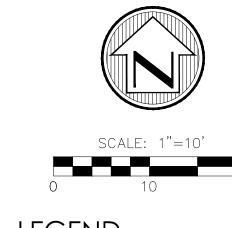




RUBBERIZED PLAYGROUND SURFACE ARTIFICIAL TURF PLAY AREA







LEGEND

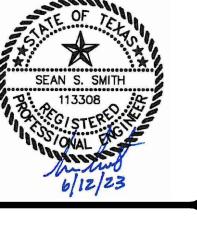
SAND/GRAVEL BAG

ROCK BERM

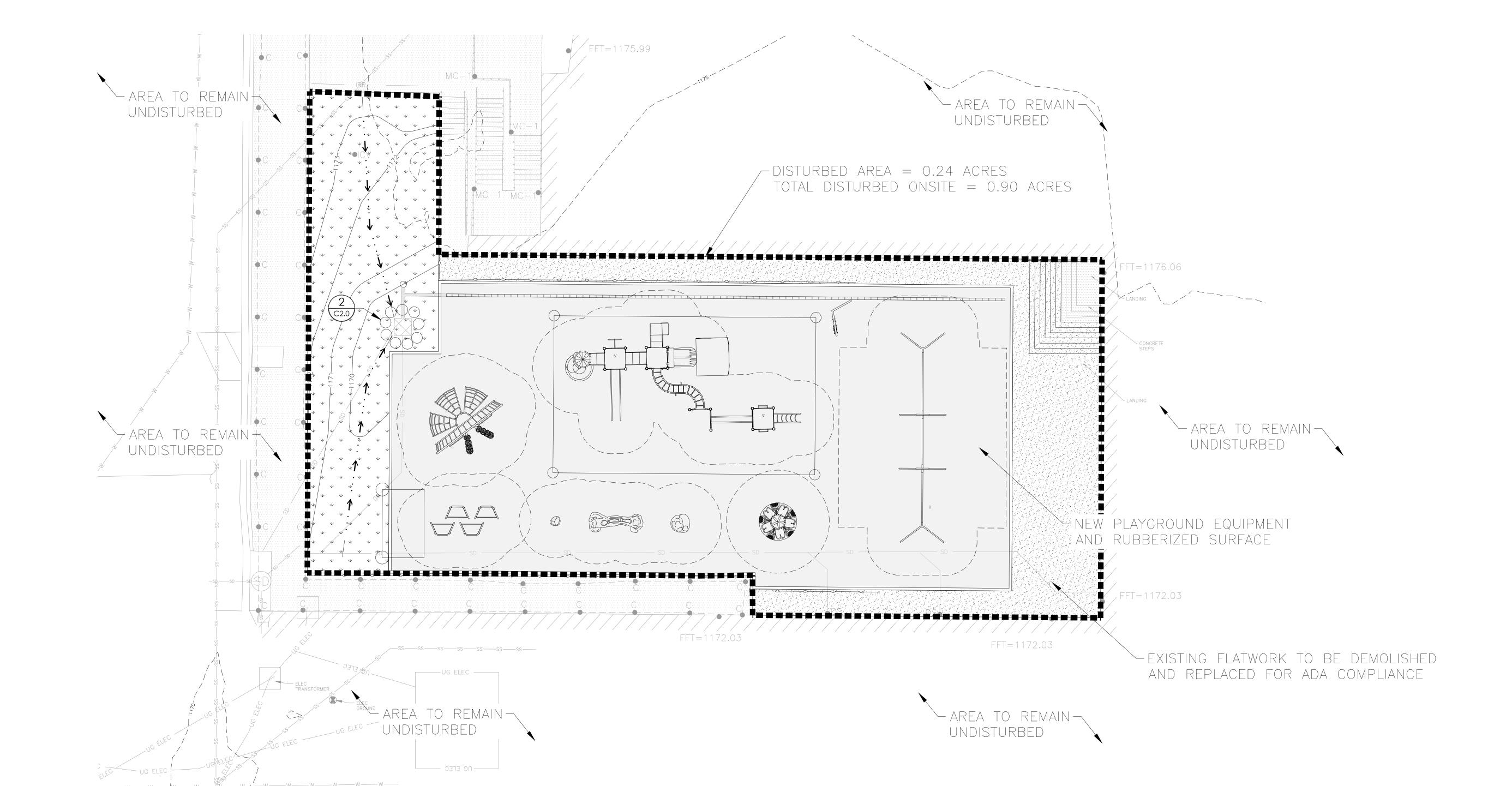
GRAVEL INLET FILTER

RUBBERIZED PLAYGROUND SURFACE

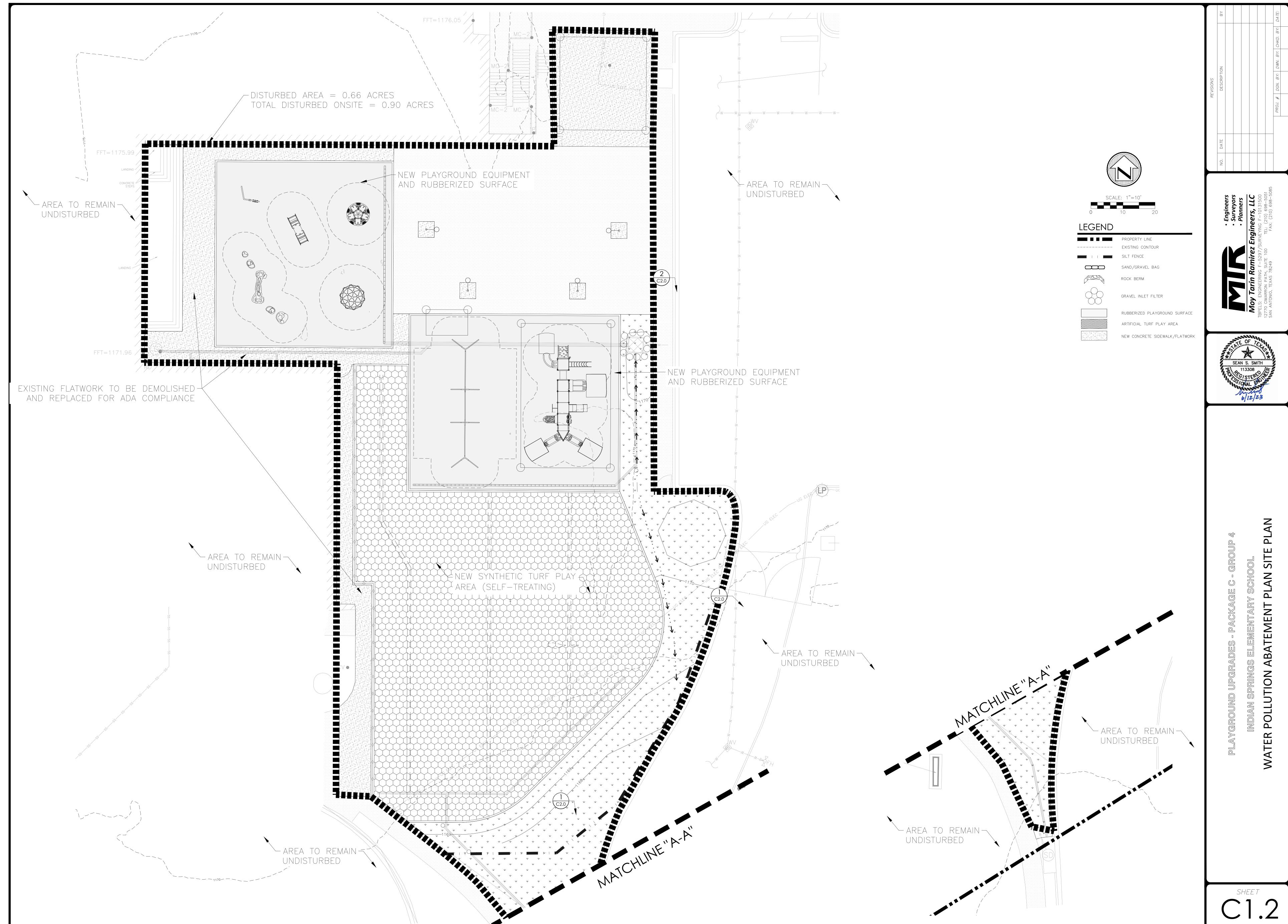
artificial turf play area NEW CONCRETE SIDEWALK/FLATWORK

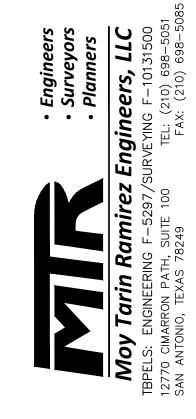






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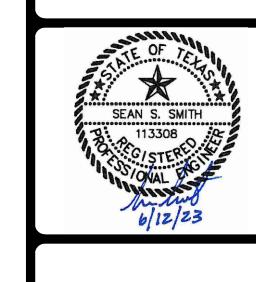


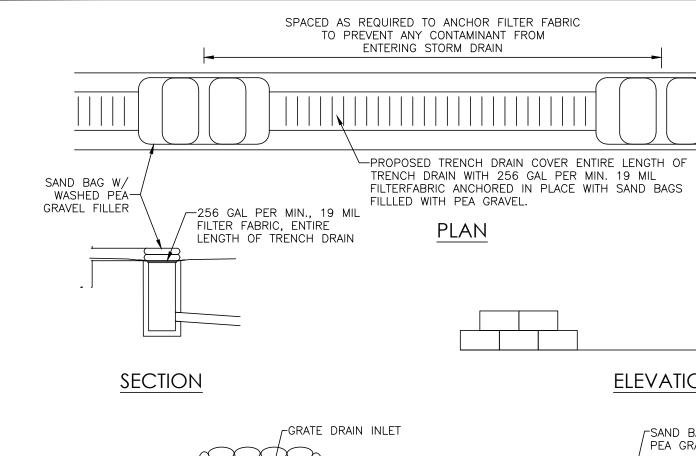


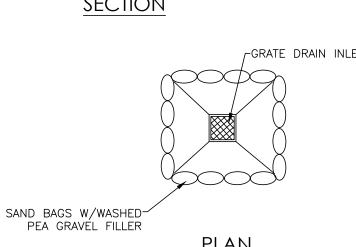


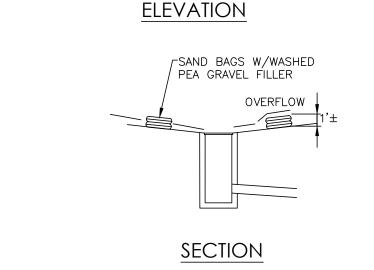












WASHED PEA

GRAVEL FILLER

- THE GRAVEL BAG MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, POLYAMIDE OR COTTON BULAP WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OZ/YD 2, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70 PERCENT.
- 2. THE BAG LENGTH SHOULD BE 24 INCHES, WIDTH SHOULD BE 18 INCHES AND THICKNESS SHOULD BE 6 INCHES. 3. THE GRAVEL BAGS SHOULD BE FILLED WITH 3/4" GRAVEL.
- WHEN A GRAVEL BAG IS FILED WITH GRAVEL, THE OPEN END OF THE GRAVEL BAG SHOULD BE STAPLED OR TIED WITH NYLON OR POLY
- THE GRAVEL BAGS SHOULD BE PLACED AS SHOWN ON THE DETAIL. THE GRAVEL BAGS SHALL BE STACKED TO FORM A CONTINUOUS
- BARRIER AROUND THE INLETS. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING
- INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
- 7. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND CURB.
- 8. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. . STRUCTURE SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY

- WOVEN WIRE SHEATING

- WOVEN WIRE SHEATING

THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.

2. CLEAN, OPEN GRADED 3 TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES

OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-TO 8-INCH DIAMETER ROCKS MAY BE USED.

4. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.

6. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE

SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.

8. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN

INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE. THE BERM SHOULD BE

10. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED

11. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT

12. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED

. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.

9. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR

A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

SILT OF IN AN APPROVED MANNER AND REPAIR ANY LOOSE WIRE SHEATHING.

ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

3. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE.

5. PLACE THE ROCK ALONG THE SHEATHING TO A HEIGHT NOT LESS THAN 18".

ISOMETRIC PLAN

PLAN - SAND BAG CONTROL DETAIL SCALE: NONE

OF FLOW

- EMERGENCY SPILLWAY

-24" OPENING IN SILT FENCE

SAND BAG CONTROL

24" IN HEIGHT

SILT FENCE DETAIL

A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.

SILT FENCE NOTES

SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

STORM FLOW OR DRAINAGE.

SCALE: NONE

BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

WOVEN WIRE FABRIC -HOG WIRE) 12.5 GA.

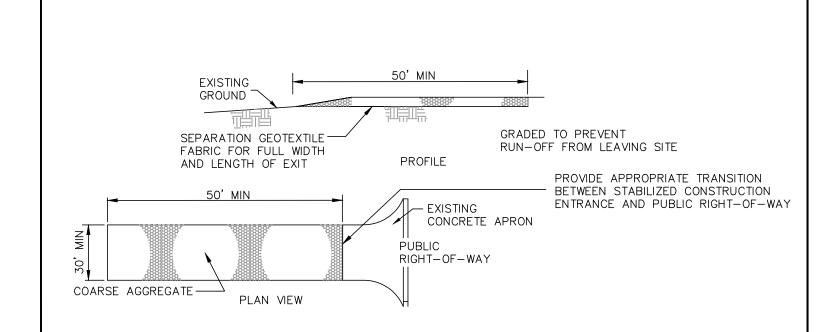
-ABRIC TOE-IN ----

BAGGED GRAVEL INLET FILTER

ROCK BERM

RESHAPED AS NEEDED DURING INSPECTION.

ROCK BERM NOTES



SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE

EXCEEDING 190 LB/SQ IN, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S.

WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12.5 GAUGE MINIMUM.

ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1 FOOT DEEP AND SPACED NOT MORE THAN

LAY OUT FENCING DOWN—SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE

THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE

DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE

TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL

THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO

SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF

SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE

REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES, OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE

REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL

PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO

REPLACE ANY TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH

FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM NOMINAL WEIGHT 1.25 LB/SQ FT, AND BRINDELL HARDNESS

STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE

FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.

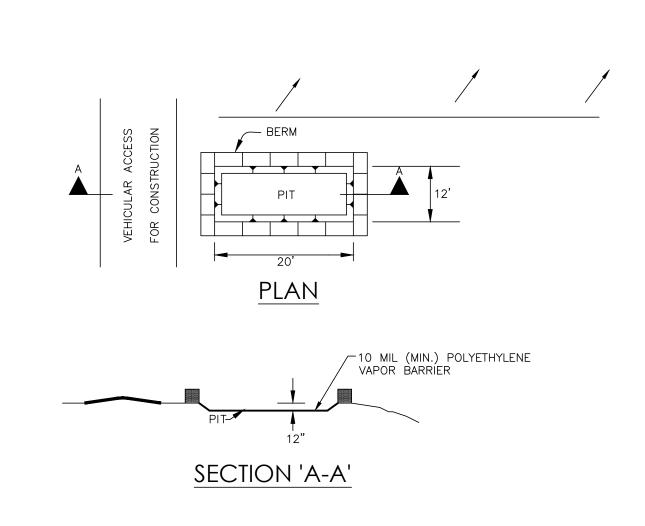
HOG WIRE-

BACKFILL

TEMPORARY CONSTRUCTION ENTRANCE/EXIT NOTES

- 1. THE AGGREGATE SHOULD CONSIST OF 4 TO 8 INCH WASHED STONE OVER A STABLE FOUNDATION. 2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8 INCHES.
- 3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/SQ YD, A MULLEN BURST RATING OF 140 LB/SQ IN, AND AN EQUIVALENT OPENING
- 4. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
- 5. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
- 6. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
- 7. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED. 8. PLACE STONE TO DIMENSIONS AND GRADE SHOWN. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
- 9. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- 10. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- 11. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC
- 12. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS

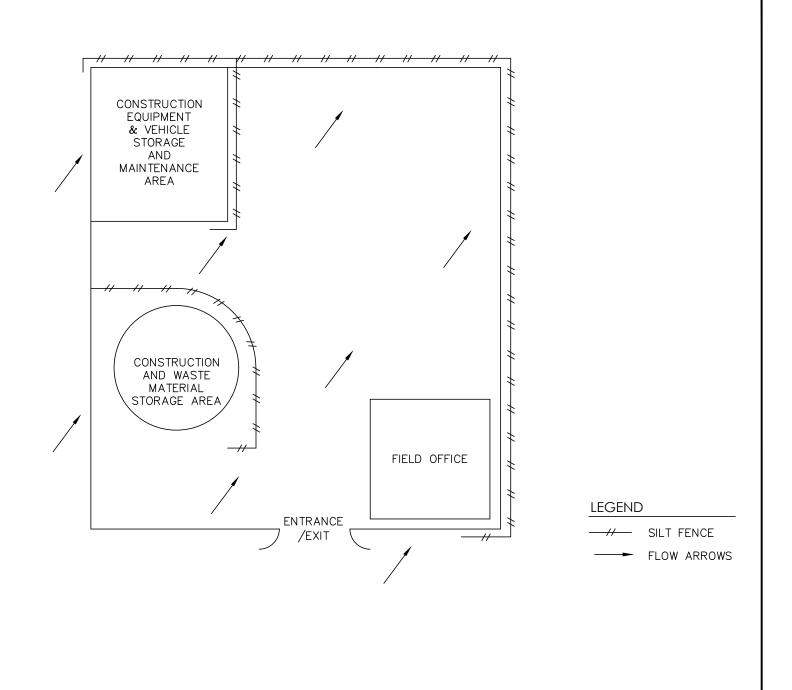
13. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE.



CONCRETE TRUCK WASHOUT PIT NOTES:

1. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.

2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC. 3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.



STABILIZED CONSTRUCTION ENTRANCE/EXIT

CONCRETE TRUCK WASHOUT PIT

CONSTRUCTION STAGING AREA

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: Sean Smith, P.E.

Date: 05/31/2023

Signature of Customer/Agent:

Regulated Entity Name: CISD INDIAN SPRINGS ELEMENTARY SCHOOL

Project Information

Potential Sources of Contamination

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

1.	Fuels for construction equipment and hazardous substances which will be used during construction:
	The following fuels and/or hazardous substances will be stored on the site:
	These fuels and/or hazardous substances will be stored in:
	Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

	 Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year. Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
	Fuels and hazardous substances will not be stored on the site.
2.	Attachment A - Spill Response Actions. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
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.
Se	equence 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

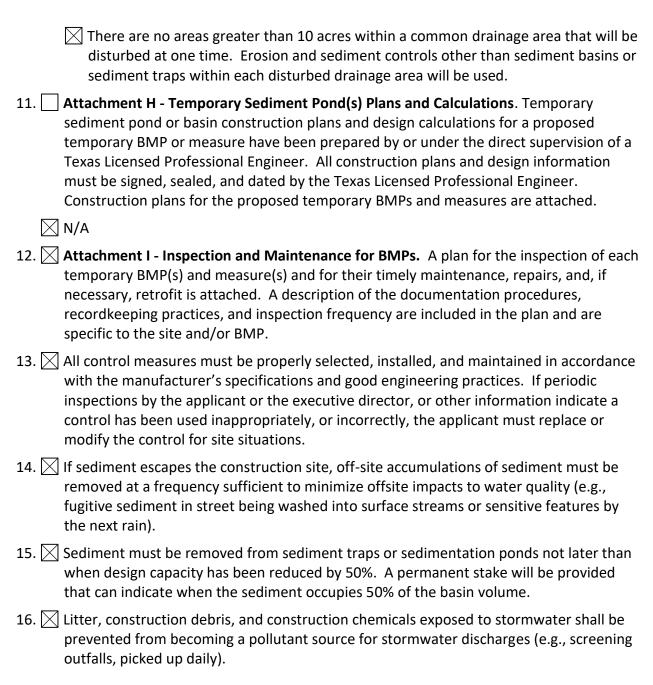
Temporary Best Management Practices (TBMPs)

receive discharges from disturbed areas of the project: Elm Waterhole

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.



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 RESPONSE ACTIONS

1. Housekeeping

- A. Minimize materials: An effort will be made to store only enough materials required to do the job.
- B. Storage: All materials stored on site will be stored in a neat, orderly manner in their appropriate containers in a covered area. If storage in a covered area is not feasible, then the materials will be covered with polyethylene or polypropylene sheeting to protect them from the elements.
- C. Labeling: Products will be kept in their original containers with the original manufacturer's label affixed to each container.
- D. Mixing: Substances will not be mixed with one another unless this is recommended by the manufacturer.
- E. Disposal: Whenever possible, all of a product will be used prior to disposal of the container. Manufacturer's recommendations will be followed for proper use and disposal of materials on site.
- F. Inspections: The site superintendent will inspect the site daily to ensure proper use and disposal of materials on site.
- G. Spoil Materials: Any excavated earth that will not be used for fill material and all demolished pavement will be hauled off site immediately and will be disposed of properly, in accordance with all applicable state/local regulations.

2. Product Specific Practices

- A. Petroleum Products: All on site vehicles will be monitored for leaks and will receive regular preventive maintenance to reduce the chance of leakage. If petroleum products will be present at the site, then they will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used on site will be applied according to the manufacturer's recommendations.
- B. Concrete Trucks: Ready/Transit Mix Trucks will not be allowed to wash out or discharge surplus concrete or drum wash water except in the designated location on site as shown on the SWPPP site plan.
- C. Paints: All containers will be tightly sealed and stored when not required for use. Excess paint will not be poured into storm sewer system or drainage channels, but will be properly disposed of according to manufacturers' instructions or state/local regulations.

D. Fertilizers: Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The fertilizer will be stored in a covered area, and any partially used bags will be transferred to a sealable plastic bin to avoid spills.

3. Spill Control and Response Measures

A spill prevention and response team will be designated by the site superintendent. In addition, the following practices will be followed for spill cleanup:

- A. Information: Manufacturers' recommended methods for spill cleanup will be clearly posted, and site personnel will be made aware of the procedures and location of the information and cleanup supplies.
- B. Equipment: Materials and equipment necessary for spill cleanup will be present on the site at all times. Equipment and materials will include, but not be limited to brooms, shovels, rags, gloves, goggles, absorbent materials (sand, sawdust, etc.) and plastic or metal trash containers specifically designed for this purpose. The materials and equipment necessary for spill cleanup will be dependent upon the nature and quantity of the material stored on site.
- C. Response: All spills will be cleaned up immediately upon discovery.

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 TCEQ Technical Guidance Manual RG-348 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

Semi-significant spills still 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 the 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 in 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.
- D. 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 run-on of stormwater and the 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 a 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 trash cans 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 be recycled. Ask the oil supplier or recycler about recycling oil filters.
- (9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

E. Vehicle and Equipment Fueling

- (1) If fueling must occur onsite, use designated areas, located away from drainage courses, to prevent the run-on 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.
- F. Safety: The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with hazardous substances.
- G. Reporting: Spills of toxic or hazardous material (if present on site) will be reported to the appropriate state or local government agency, regardless of the spill's size.
- H. Record Keeping: The spill prevention plan will be modified to include measures to prevent this type of spill from recurring as well as improved methods for cleaning up any future spills. A description of each spill, what caused it, and the cleanup measures used will be kept with this plan.

ATTACHMENT B POTENTIAL SOURCES OF CONTAMINATION

Potential Source Oil, grease, fuel and hydraulic fluid contamination from construction equipment

and vehicle dripping.

Preventive Measure Vehicle maintenance, when possible, will be performed within a construction

staging area specified by the General Contractor.

Potential Source Miscellaneous trash and litter from construction workers and material

wrappings.

Preventive Measure Trash containers will be placed throughout the site to encourage proper trash

disposal.

Potential Source Construction debris.

Preventive Measure Construction debris will be monitored daily by contractor. Debris will be

collected weekly and placed in disposal bins. Situations requiring immediate

attention will be addressed on a case by case basis.

Potential Source Stormwater contamination from excess application of fertilizers, herbicides and

pesticides.

Preventive Measure Fertilizers, herbicides and pesticides will be applied only when necessary and in

accordance with manufacturers directions.

Potential Source Soil and mud from construction vehicle tires as they leave the site.

Preventive Measure A stabilized construction exit shall be utilized as vehicles leave the site. Any soil,

mud, etc. carried from the project onto public roads shall be cleaned up within

24 hours.

Potential Source Sediment from soil, sand, gravel and excavated materials stockpiled on site.

Preventive Measure Silt fence shall be installed on the downgradient side of all stockpiled materials.

Reinforced rock berms shall be installed at all downstream discharge locations.

ATTACHMENT C SEQUENCE OF MAJOR ACTIVITIES

Construction Sequencing

- A. Installation of temporary BMPs as shown on the WPAP Site Plan. Silt fence will be placed along the down gradient boundary. (0.009 acres disturbed)
- B. Demolition and grading. (0.90 acres disturbed)
- C. Seeding and soil stabilization. (0.15 acres disturbed)

ATTACHMENT D TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Description of Temporary Best Management Practices:

Vegetation will be used as a temporary stabilization technique for all areas disturbed by construction, not covered in pavement, buildings, or other structures.

Sequence of installation during construction process for each phase of construction:

Vegetation as a temporary control will only be utilized in the event a disturbed area has been left denuded for more than 14 days.

Up gradient storm water flowing across the site:

There is minimum upgradient flow entering the construction area. All upgradient flow will be treated along with the stormwater generated onsite.

Onsite storm water flowing across and off the site:

The storm water originating onsite and flowing off the site will be treated through temporary BMPs. Silt fences will be installed at all locations where non-concentrated storm water exits the site.

Prevention of pollutants from entering surface streams, sensitive features and the aquifer:

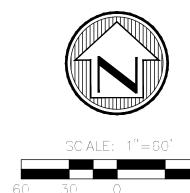
The storm water originating onsite and flowing off the site will be treated using temporary BMPs prior to it entering surface streams, sensitive features and the aquifer. Silt fences will be installed at all locations where non-concentrated storm water may leave the site. These silt fences should filter the storm water prior to it leaving the site.

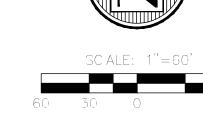
Maintaining flow to naturally-occurring sensitive features:

The storm water originating onsite and flowing off the site will continue to flow into the down gradient receiving waters. Any sensitive features downstream will continue to receive flow originating on the site. Prior to the flow leaving the site, it will be treated through temporary BMPs. These temporary BMPs should remove sediment, pollutants and debris if installed and maintained properly.

ATTACHMENT F STRUCTURAL PRACTICES

Vegetation will be used as a temporary stabilization technique for all areas disturbed by construction, not covered by pavement, buildings, or other structures. Temporary stabilization shall consist of temporary seeding of disturbed areas that are denuded beyond 14 days without construction restart within 21 days. As a temporary control, the vegetation will be used to stabilize barren areas that are inactive for long periods of time.







DRAINAGE AREA BOUNDARY TIME OF CONCENTRATION

CALCULATION POINT

FLOW ARROWS

NO. ACCUMULATION ACRES C-VALUE (min) (in/hr) (in/hr) (cfs) (cfs) (cfs)				EXISTING CO	NDITIONS C	CALCULA	TION				
1 A 7.89 0.81 5.00 7.96 11.22 14.26 50.69 71.48 90				C-VALUE		15 (in/hr)			1		Q100 (cfs)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	A	7.89	0.81	5.00	7.96	11.22	14.26	50.69	71.48	90.8

PROPOSED DRAINAGE CALCULATIONS

	PROPOSED/ULTIMATE CONDITIONS Q CALCULATION									
PT. NO.	AREA OF ACCUMULATION	TOTAL ACRES	C-VALUE	Tc (min)	15 (in/hr)	125 (in/hr)	1100 (in/hr)	Q5 (cfs)	Q25 (cfs)	Q100 (cfs)
1	A	7.89	0.85	5.00	7.96	11.22	14.26	53.09	74.87	95.1

EXISTING DRAINAGE CALCULATIONS

	PROPOSED/ULTIMATE CONDITIONS Q CALCULATION									
PT. NO.	AREA OF ACCUMULATION	TOTAL ACRES	C-VALUE	Tc (min)	15 (in/hr)	l25 (in/hr)	1100 (in/hr)	Q5 (cfs)	Q25 (cfs)	Q100 (cfs)
1	Α	7.89	0.85	5.00	7.96	11.22	14.26	53.09	74.87	95.1

SHEET

ATTACHMENT I INSPECTION AND MAINTENANCE FOR BMPS

Silt Fence

- 1. Inspect all fencing weekly, and after any rainfall.
- 2. Remove sediment when buildup reaches 6 inches, or install a second line of fencing parallel to the old fence.
- 3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
- 4. Replace or repair any sections crushed or collapsed in the course of construction activity.

Bagged Gravel Inlet Filter

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

CISD INDIAN SPRINGS ELEMENTARY SCHOOL

Responsible Party Form

Pollution Prevention Measure			Corrective Action Date Completed				
			Description	Date Completed			
	Inspections						
nce	Fencing						
Silt Fence	Sediment Removal						
Sil	Torn Fabric						
	Crushed/Collapsed Fencing						
ed el t rs	Inspections						
Bagged Gravel Inlet Filters	Replaced/Reshaped						
B G	Silt Removed						
Inspector's Nam	ie	_	Inspector's Signature				
Name of Owner/Operator			Date				

Note: Inspector is to attach a brief statement of his qualifications to this report.

ATTACHMENT J SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases 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 the site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

Temporary stabilization shall consist of temporary seeding of disturbed areas that are denuded beyond 14 days without construction restart within 21 days.

As pad sites (buildings, sidewalks and pavement) are completed, permanent landscaping and sod shall be planted and irrigated. Curb and gutter will direct runoff into the permanent water quality basin.

Temporary vegetation stabilization techniques shall be in accordance with the TCEQ Technical Guidance Manual RG-248 (*Complying with the Edwards Aquifer Rules – Technical Guidance on Best Management Practices*), Chapter 1 Temporary Best Management Practices, Section 1.3.8 Temporary Vegetation, as follows:

Temporary Vegetation

Vegetation is used as a temporary or permanent stabilization technique for areas disturbed by construction, but not covered by pavement, buildings, or other structures. As a temporary control, vegetation can be used to stabilize stockpiles and barren areas that are inactive for long periods of time.

Vegetative techniques can and should apply to every construction project with few exceptions. Vegetation effectively reduces erosion in swales, stockpiles, berms, mild to medium slopes, and along roadways.

Other techniques may be required to assist in the establishment of vegetation. These other techniques include erosion control matting, mulches, surface roughening, swales and dikes to direct runoff around newly seeded areas, and proper grading to limit runoff velocities during construction. (NCTCOG, 1993b)

Materials:

The type of temporary vegetation used on a site is a function of the season and the availability of water for irrigation. For areas that are not irrigated, the year can be divided into two temporary planting seasons and one season for planting of permanent warm weather groundcovers. These periods are shown in Figure 1-19 for Bexar, Comal, Kinney, Medina, and Uvalde Counties. Appropriate temporary vegetation for these areas is shown in Table 1-4.

Other vegetation may perform as well as the recommended varieties, especially where irrigation is available. County agricultural extension agents are a good source for suggestions for other types of temporary vegetation. All seed should be high quality, U.S. Dept. of Agriculture certified seed.

Installation:

- (1) Interim or final grading must be completed prior to seeding, minimizing all steep slopes. In addition, all necessary erosion structures such as dikes, swales, and diversions, should also be installed.
- (2) Seedbed should be well pulverized, loose, and uniform.
- (3) Fertilizer should be applied at the rate of 40 pounds of nitrogen and 40 pounds of phosphorus per acre, which is equivalent to about 1.0 pounds of nitrogen and phosphorus per 1000 square feet. Compost can be used instead of fertilizer and applied at the same time as the seed.

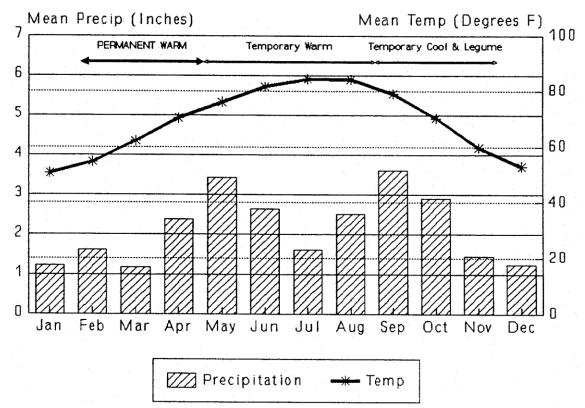


Figure 1-19 Planting Dates for Bexar, Comal, Kinney, Medina, and Uvalde Counties (Northcutt, 1993)

Table 1-4 Temporary Seeding for Bexar, Comal, Kinney, Medina, and Uvalde Counties (Northcutt, 1993)

Dates	Climate	Species (lb/ac)	
Sept 1 to Nov 30	Temporary Cool Season	Tall Fescue	4.0
		Oats	21.0
		Wheat (Red,	30.0
		Winter)	30.0
		Total	55.0
Sept 1 to Nov 30	Cool Season Legume	Hairy Vetch	8.0
May 1 to Aug 31	Temporary Warm Season	Foxtail Millet	30.0

- (4) Seeding rates should be as shown in Table 1-4 or as recommended by the county agricultural extension agent.
- (5) The seed should be applied uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed, fertilizer and binder).

(6) Slopes that are steeper than 3:1 should be covered with appropriate soil stabilization matting as described in the following section to prevent loss of soil and seed.

Irrigation:

Temporary irrigation should be provided according to the schedule described below, or to

replace moisture loss to evapotranspiration (ET), whichever is greater. Significant rainfall (on-site rainfall of $\frac{1}{2}$ " or greater) may allow watering to be postponed until the next scheduled irrigation.

Time Period	Irrigation Amount and Frequency
Within 2 hours of installation	Irrigate entire root depth, or to germinate seed
During the next 10 business days	Irrigate entire root depth every Monday, Wednesday, and Friday
During the next 30 business days or until Substantial Completion	Irrigate entire root depth a minimum of once per week, or as necessary to ensure vigorous growth
During the next 4 months or until Final Acceptance of the Project	Irrigate entire root depth once every two weeks, or as necessary to ensure vigorous growth

If cool weather induces plant dormancy, water only as necessary to maintain plant health.

Irrigate in a manner that will not erode the topsoil but will sufficiently soak the entire depth of roots.

Inspection and Maintenance Guidelines:

- (1) Temporary vegetation should be inspected weekly and after each rain event to locate and repair any erosion.
- (2) Erosion from storms or other damage should be repaired as soon as practical by regrading the area and applying new seed.
- (3) If the vegetated cover is less than 80%, the area should be reseeded.

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: Sean Smith, P.E.

Date: <u>05/31/2023</u>

Signature of Customer/Agent

Regulated Entity Name: CISD INDIAN SPRINGS ELEMENTARY SCHOOL

Permanent Best Management Practices (BMPs)

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

1.	pollution from regulated activities after the completion of construction.
	□ N/A
2.	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. \square 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 multifamily 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.
6.	☐ The site will not be used for multi-family residential developments, schools, or small business sites. Attachment B - BMPs for Upgradient Stormwater.
n.	TATACIONENLO - DIVIPSTOL UDPLACIENL SCOCMWALEC.

		 □ 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.
	\boxtimes	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 retrofitA 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 BMP'S FOR UPGRADIENT STORM WATER

There is no upgradient storm water from adjacent properties. Therefore, no storm water runoff enters the site which will require treatment by permanent BMPs. During construction, there will not be any permanent BMPs required.

ATTACHMENT C BMPs FOR ON-SITE STORMWATER

There will be an increase of 23,576 SF (0.54 acres) in impervious cover due to the proposed project. However, 0.19 acres of this increase is synthetic turf that is considered self-treating due to the presence of an underdrain and liner. Therefore, this project is only required to provide treatment for 0.35 acres of impervious cover. Currently, all impervious cover on-site is treated with an existing sedimentation/filtration basin. The basin was enlarged in 2016 and has the capacity to treat all 0.35 acres of impervious cover requiring treatment with this modification. According to the 2016 WPAP Modification, the sand filter bed was enlarged to 5,455 S.F. and the water quality volume increased to 54,837 C.F.

According to the approved 2016 WPAP Modification TSS Calculations, 6.08 acres of impervious cover required treatment. 5.60 acres of impervious cover generated stormwater flowing directly to the sedimentation/filtration basin, while the remainder requiring treatment was offsite impervious cover accounted for with overtreatment in the basin. The increase in impervious cover associated with the proposed playground upgrades takes place within the drainage area flowing directly to the basin. This brings the total amount of impervious cover flowing directly to the basin to 6.14 acres. However, 0.19 acres are considered self-treating, therefore it has been excluded from the TSS calculations spreadsheet for the basin. The resulting impervious cover flowing to the pond for the purpose of calculating TSS removal requirements is 5.95 acres (5.60 existing acres + 0.54 acres of new impervious cover - 0.19 acres of self treating impervious cover). For consistency, the 0.19 acres of self-treating impervious cover has also been excluded from Item #1 of the calculations. This results in an overall treatment requirement of 6.43 acres, or 5,247 lbs of TSS to be removed. The water quality volume required to remove 5,247 lbs of TSS is 50,477 C.F., which is 4,360 C.F. less than the volume provided by the basin. The minimum filter area required to remove 5,247 lbs of TSS is 4,206 S.F., which is 1,249 S.F. less than the filter area provided by the basin.

ATTACHMENT D

BMPS FOR SURFACE STREAMS

No surface streams or sensitive features exist on the property and therefore it is not necessary to implement any additional permanent BMPs to prevent pollutants from entering said features. The existing sedimentation/filtration basin being modified as part of this Modification Request will prevent pollutants from entering the aquifer.

ATTACHMENT F CONSTRUCTION PLANS

GENERAL NOTES

- IS TAKEN TO. THE OWNER WILL NOT BE HELD LIABLE FOR WASTE MATERIAL.
- PRIOR TO THE START OF CONSTRUCTION. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY THE SAME MATERIALS AS WELL AS VERTICAL AND HORIZONTAL ALIGNMENT.
- CONDITIONS (BOTH NEW AND EXISTING). HE SHALL REPORT ANY DISCREPANCIÈS TO THE PROJECT ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK AS HE WILL BE RESPONSIBLE FOR ALL WORK AS INTENDED BY THE DRAWINGS AND SPECIFICATIONS.
- SAFETY OF ALL PERSONS AND PROPERTY.
- 6. BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND GENERALLY BE LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION AT ALL TIMES DURING CONSTRUCTION.
- DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE PROJECT ARCHITECT AT THE CONTRACTOR'S EXPENSE.
- BETTER CONDITION, ANY DAMAGES DONE TO EXISTING FENCES, CURBS, SHALL BE CONDUCTED WITH THE CONTRACTOR AND OWNER PRIOR TO
- 9. CONTRACTOR SHALL MAINTAIN CONTINUAL ALL UTILITY SERVICES (GAS, TELE, CATV, ELEC., WATER, SEWER, STORM SEWER, ETC.) TO EXISTING FACILITIES AND BUILDINGS. WHERE CONSTRUCTION IS IN THE PROXIMITY OF A UTILITY, THE CONTRACTOR WILL TAKE PRECAUTION TO PROTECT AND/OR SUPPORT

- 13. ADJUST ALL EXISTING VALVES & UTILITIES TO REMAIN TO FINISH GRADE. REFERENCE GRADING & UTILITY PLAN.
- 15. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH UTILITY PLANS.
- 16. CONTRACTOR IS RESPONSIBLE FOR CLEARING THE ALIGNMENT FOR ALL NEW FENCING. CLEARING TO INCLUDE ALL VEGETATION, TREE LIMBS, AND SHRUBS WITHIN 5' OF NEW FENCE ALIGNMENT ON EACH SIDE.

- 1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BEGINNING
- 2. ALL WASTE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE SITE TO A STATE LICENSED LANDFILL. CONTRACTOR WILL BE REQUIRED TO PROVIDE DOCUMENTATION WHERE DISPOSED MATERIAL
- 3. CONTRACTOR IS REQUIRED TO SET AND VERIFY ALL PROJECT ELEVATIONS
- 4. GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSION & GRADE
- 5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING
- PERSONNEL AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW
- 7. ANY EXISTING OFF-SITE IMPROVEMENTS AND/OR UTILITIES REMOVED,
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR CONCRETE DRIVEWAYS, SIDEWALK STRUCTURES AND PAVEMENT, THAT ARE NOT INDICATED TO BE REMOVED. AN INVENTORY OF EXISTING CONDITIONS
- CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 12. NOTIFY OWNER 72 HOURS IN ADVANCE OF UTILITY
- 14. CONTRACTOR SHALL COORDINATE ALL DEMOLITION CONSTRUCTION ACTIVITIES WITH OTHER DISCIPLINES AS
- 17. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL SILT FROM THE DRAINAGE SYSTEM AND FLUSH THE DRAINAGE SYSTEM UPON SUBSTANTIAL COMPLETION
- 18. CONTRACTOR TO RESTRIPE ALL FIRE LANE STRIPING TO MATCH EXISTING WHERE PAVEMENT HAS BEEN REMOVED AND REPLACED.

PAINT SPECIFICATION

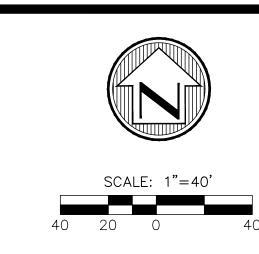
THE PAVEMENT MARKING PAINT TO BE USED ON THIS PROJECT WILL BE GORILLA HI—PERFORMANCE ACRYLIC ZONE MARKING PAINT FROM AEXCEL OR APPROVED EQUAL. WHITE PAINT 22W—E008 AND LEAD—FREE YELLOW 22Y—E006. SURFACE PREPARATION: SURFACES WILL BE CLEAN, DAY AND FREE FROM LOOSE OR PEELING SURFACES. DO NOT APPLY WHEN AIR TEMPERATURES ARE BELOW 50DEG. F. OR WHEN THE RELATIVE HUMIDITY EXCEEDS 85%, OR WHEN THE TEMPERATURE FALLS BELOW THE DEW POINT. IT IS RECOMMENDED TO PLACE AN INCONSPICUOUS TEST STRIP TO DETERMINE IF THE NEW ASPHALT SURFACES HAVE CURED SUFFICIENTLY TO PAINT. WAIT 24 HOURS AFTER A RAIN TO PAINT ASPHALT SURFACES. APPLICATION RATES: APPLY PAINT AT FILM THICKNESS AND SPREADING RATE AS RECOMMENDED BY THE PAINT SUPPLIER. ALL OF THE NEW ASPHALT SURFACES WILL BE PAINTED WITH TWO (2) COATS OF 15.0 MILS WET, 8.0 MILS DRY. THE FIRST COAT MUST BE COMPLETELY DRY BEFORE THE SECOND COAT IS APPLIED. WAIT A MINIMUM OF 10 DAYS BETWEEN THE ASPHALT PLACEMENT AND THE PERMANENT TRAFFIC STRIPING AND

IF 10 DAYS CANNOT BE ACHIEVED CONTRACTOR TO PROVIDE TWO (2) ADDITIONAL COATS OF 15.0 MILS WET, 8.0 MILS DRY 10 DAYS AFTER ASPHALT PLACEMENT. THE ADDITIONAL COATS ARE TO BE COORDINATED WITH THE OWNER AND WILL NOT DISRUPT OPERATIONS.

1. CLEAR COVER FOR REINFORCEMENT STEEL IS 2" UNLESS OTHERWISE NOTED.

DRAINAGE AND STORM SEWER NOTES:

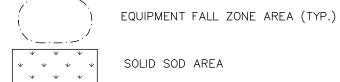
- 2. MATERIAL SPECIFICATIONS:
- CONCRETE/CONCRETE RIPRAP: CLASS A 3000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED ON PLANS.
- REINFORCING STEEL: CONFORM TO A.S.T.M. A-615, GRADE 60 (2" CLEAR COVER UNLESS OTHERWISE NOTED ON PLANS) PIPE RAILING: CONFORM TO A.S.T.M. A-53, GRADE B, OR A-501
- 3. STORM SEWER PIPE MATERIAL SPECIFICATIONS: PIPE MATERIAL SHALL BE AS NOTED ON DRAINAGE PLANS. WHEN SPECIFIED: A) REINFORCED CONCRETE PIPE (RCP) CLASS IV UNLESS OTHERWISE SPECIFIED ON B) PRECAST BOX CULVERT OLDCASTLE PRECAST TYPE I OR EQUAL APPROVED BY
- C) POLYVINYL CHLORIDE (PVC) PIPE SHALL BE SDR 26 (115 psi) D) ALUMINIZED STEEL (AS) 1. CORRUGATIONS: $\frac{3}{4}$ " χ_4^3 " χ_7 -1/2" HELICAL CORRUGATIONS PER ASSHTO M-36, TYPE IR (ASTM A-760)
- 2. MATERIAL: ALUMINIZED TYPE 2 STEEL PER AASHTO M-274 (ASTM A-819) 3. JOINT: HUGGER BAND WITH TECHNO ANGLES. CONTRACTOR TO PROVIDE 5-C BANDS WITH BAR BOLT AND STRAP CONNECTION AND 12" WIDE
- NEOPRENE GASKET FOR ALL STORM PIPE UNDER PAVEMENT AREAS. 4. THICKNESS: 0.064" (16 GAUGE)
- 4. ALL STORM SEWER INLET GRATES SHALL BE GALVANIZED. 5. CONCRETE COLLARS SHALL BE PROVIDED ON ALL STORM DRAIN TO JUNCTION
- BOX/GRATE INLET CONNECTIONS. REFERENCE DETAILS. 6. GROUT INVERTS OF ALL JUNCTION BOXES AND GRATE INLETS TO DRAIN.
- 7. ALL JUNCTION BOXES SHALL HAVE MANHOLES FOR ACCESS WITH BOLTED MANHOLE
- 8. ALL DRAINAGE STRUCTURES, LIDS AND GRATES SHALL BE RATED FOR H20 LOADING.
- 9. ALL PIPE TRENCHES SHALL CONTAIN FILTER FABRIC BETWEEN THE INITIAL AND SECONDARY BACKFILL. REFERENCE DETAILS AND SPECIFICATIONS FOR CONSTRUCTION
- 10. ALL CONCRETE STORM DRAIN STRUCTURES TO HAVE A 32" CLEAR OPENING FOR ACCESS. CONTRACTOR TO PROVIDE CORRESPONDING LID AND FRAME TO PROVIDE 32"





+ 802.97 EXISTING SPOT ELEVATION PROPOSED ELEVATION TOP OF CONCRETE TOP OF CURB ELEVATION NATURAL GROUND ELEVATION INVERT ELEVATION TOP OF GRATE ELEVATION

TOB TOP OF COMPACTED BASE 1004 NEW CONTOUR — — —1004— — EXISTING CONTOUR ───── CHAINLINK FENCE



SOLID SOD AREA POURED-IN-PLACE RUBBER



NEW CONCRETE FLATWORK



N N SP INDIAN

LEGEND

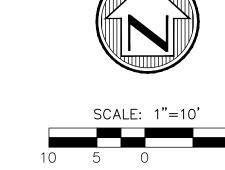
+ 802.97 EXISTING SPOT ELEVATION PROPOSED ELEVATION TOP OF CONCRETE TOP OF CURB ELEVATION NATURAL GROUND ELEVATION INVERT ELEVATION TOP OF GRATE ELEVATION TOP OF COMPACTED BASE — — — 1004— — EXISTING CONTOUR

───── CHAINLINK FENCE EQUIPMENT FALL ZONE AREA (TYP.) SOLID SOD AREA

POURED-IN-PLACE RUBBER

NEW CONCRETE FLATWORK

SYNTHETIC TURF



SITE GRADING/DRAINAGE KEYNOTES:

NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE SECTION DETAIL NO. 6, SHEET C5.0. 2 NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. PROVIDE EXPANSION JOINT AT JUNCTURE PER DETAIL NO. 6, SHEET C5.0. 3 EXISTING CONCRETE SIDEWALK/FLATWORK/STRUCTURAL CONCRETE TO REMAIN IN PLACE.

4 NEW SIDEWALK/FLATWORK TO MATCH STRUCTURAL CONCRETE/RIGID PAVEMENT. PROVIDE DOWELS AND EXPANSION JOINT AT JUNCTURE PER DETAIL NO. 6, SHEET C5.0. 5 NEW SYNTHETIC TURF PLAYGROUND SECTION. REFERENCE DETAIL NO. 1, SHEET C5.1. 6 NEW POURED-IN-PLACE RUBBER PLAYGROUND SECTION. REFERENCE DETAIL NO. 2, SHEET C5.1.

7) NEW PLAYGROUND EQUIPMENT. CONTRACTOR TO INSTALL PLAYGROUND EQUIPMENT PER MANUFACTURING REQUIREMENTS. NEW SHADE STRUCTURE. REFERENCE SPECIFICATIONS. REFERENCE DIMENSIONAL CONTROL PLANS FOR DIMENSIONS.

9 NEW DUAL FOUNDATION CANTILEVER SHADE STRUCTURE. REFERENCE SPECIFICATIONS. (10) CONTRACTOR TO PROVIDE CATCH BASIN AT TRENCH DRAIN. REFERENCE INVERT ELEVATIONS FOR DEPTH. (11) CONTRACTOR TO GRADE AREA TO DRAIN.

(12) NEW SOLID SOD. REFERENCE LANDSCAPING NOTES. CONTRACTOR TO CONNECT DOWNSPOUT TO UNDERGROUND DRAINAGE SYSTEM AND PROVIDE CLEANOUT. CONTRACTOR TO CONFIRM SIZE OF EXISTING DOWNSPOUT FOR SQUARE TO ROUND FITTING. REFERENCE DETAIL NEW SDR26 PVC DRAINAGE PIPING. REFERENCE SIZE, LENGTH AND INVERT ELEVATIONS SHOWN ON PLAN.

(15) CONTRACTOR TO PROVIDE SANITARY WYE AND 1/8 BEND CONNECTION. (16) CONTRACTOR TO PROVIDE SANITARY WYE BEND CONNECTION. (17) CONTRACTOR TO PROVIDE MANUFACTURED BEND.

(18) CONTRACTOR TO CORE DRILL EXISTING INLET AND EXTEND STORM PIPE INTO THE FACE OF THE BOX. (19) EXISTING CHAIN—LINK FENCE TO REMAIN IN PLACE. CONTRACTOR TO REMOVE AND REPLACE AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.

NEW 9' HIGH BASKETBALL GOAL. MIRACLE EQUIPMENT MODEL# 360-757 OR APPROVED EQUAL. CONTRACTOR TO INSTALL CONCRETE FOOTING PER MANUFACTURER REQUIREMENTS.

CONTRACTOR TO PROVIDE THICKENED EDGE. REFERENCE DETAIL NO. 6E, SHEET C5.0. EXISTING GRATE INLET TO REMAIN IN PLACE. CONTRACTOR TO ADJUST LID TO FINISH GRADE.

(24) EXISTING HANDRAILS TO REMAIN IN PLACE. (25) NEW LOCATION OF RELOCATED GAGA PIT.

(27) NEW CLEANOUT. REFERENCE DETAIL NO. 7, SHEET C5.0.

(21) NEW CONCRETE HEADER (FLUSH) CURB.

EXISTING FENCE TO REMAIN IN PLACE. CONTRACTOR TO REMOVE AND REPLACE AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.

CONTRACTOR TO SEAL LINER AROUND PIPE AND TRANSITION TO SOLID PIPE. SEAL PER MANUFACTURER REQUIREMENTS. NEW 12" CATCH BASIN WITH ADA GRATE (NYLOPLAST OR APPROVED EQUAL). REFERENCE DETAIL NO. 5, SHEET C5.0.

NEW J-DRAIN MVP-12 12" FLAT DRAIN (NO FILTER SOCK) OR APPROVED EQUAL. (31) CONTRACTOR TO PROVIDE PARGED FINISH ON EXISTING CONCRETE.

(32) NEW ELEVATED CURB. REFERENCE DETAIL NO. 12, SHEET C5.0. NEW CONCRETE RISERS WITH ADJACENT HANDRAILS. HANDRAILS ARE TO EXTEND 1'-0" MIN. BEYOND LIMITS OF RISERS. REFERENCE DETAIL NO. 1, SHEET C5.2. REFERENCE DETAIL NOS. 2 AND 3 FOR SECTION DETAILS. 34 NEW 4' HIGH CHAIN-LINK FENCING. REFERENCE DETAIL NO. 4, SHEET

NEW 6' HIGH CHAIN-LINK FENCING. REFERENCE DETAIL NO. 4, SHEET C5.2.

(36) CONTRACTOR TO REMOVE EXISTING JOINT SEALANT AND REPLACE WITH A HIGH-STRENGTH NON-SHRINK GROUT. (37) CONTRACTOR TO PROVIDE 12" HEADER (FLUSH) CURB.

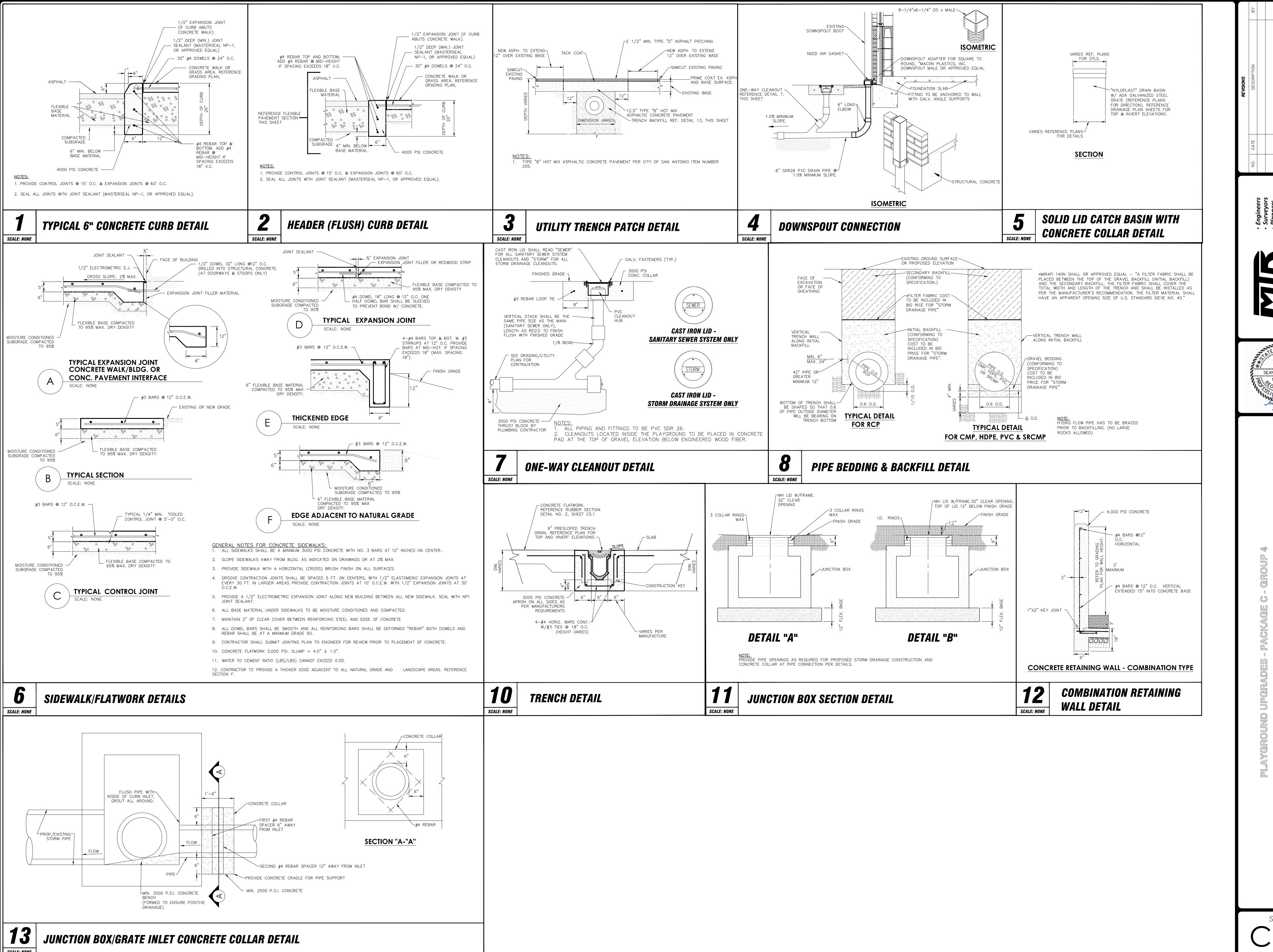
NEW JUNCTION BOX (OLD CASTLE OR APPROVED EQUAL). REFERENCE DETAIL NO 11, SHEET C5.0. SEE GRADING AND DRAINAGE PLAN FOR SIZE AND ELEVATIONS. 39 CONTRACTOR TO PROVIDE VERTICAL STACK. REFERENCE DETAIL NO. 4, SHEET C5.1. REFERENCE GRADING AND DRAINAGE PLAN FOR INVERTS. NEW 4' WIDE CHAIN—LINK FENCE GATE. REFERENCE DETAIL NO. 4, SHEET C5.2. CONTRACTOR TO PROVIDE PANIC HARDWARE. (41) NEW TRENCH DRAIN, ACO OR APPROVED EQUAL. REFERENCE DETAIL NO. 10, SHEET C5.0. NEW 6" PERFORATED PIPE. REFERENCE SYNTHETIC TURF SECTION DETAIL NO. 1, SHEET C5.1.

CONTRACTOR TO PROVIDE NEW (12"X18") ADA ACCESSIBLE ROUTE SIGN INSIDE BUILDING DIRECTING ADA TRAFFIC SOUTH TO LOWER DOOR. REFERENCE DETAIL NO. 14, SHEET C5.0.





RING S



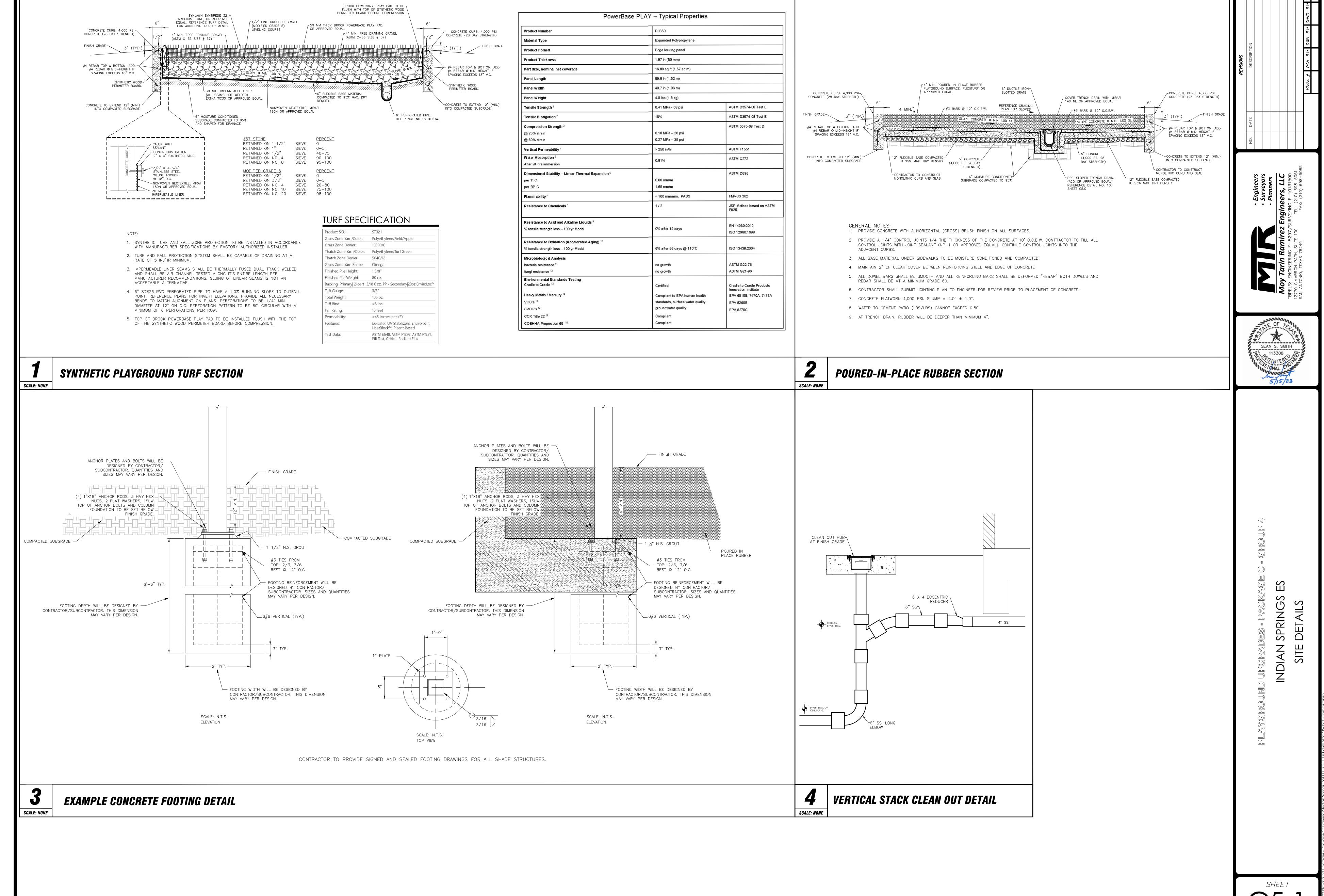


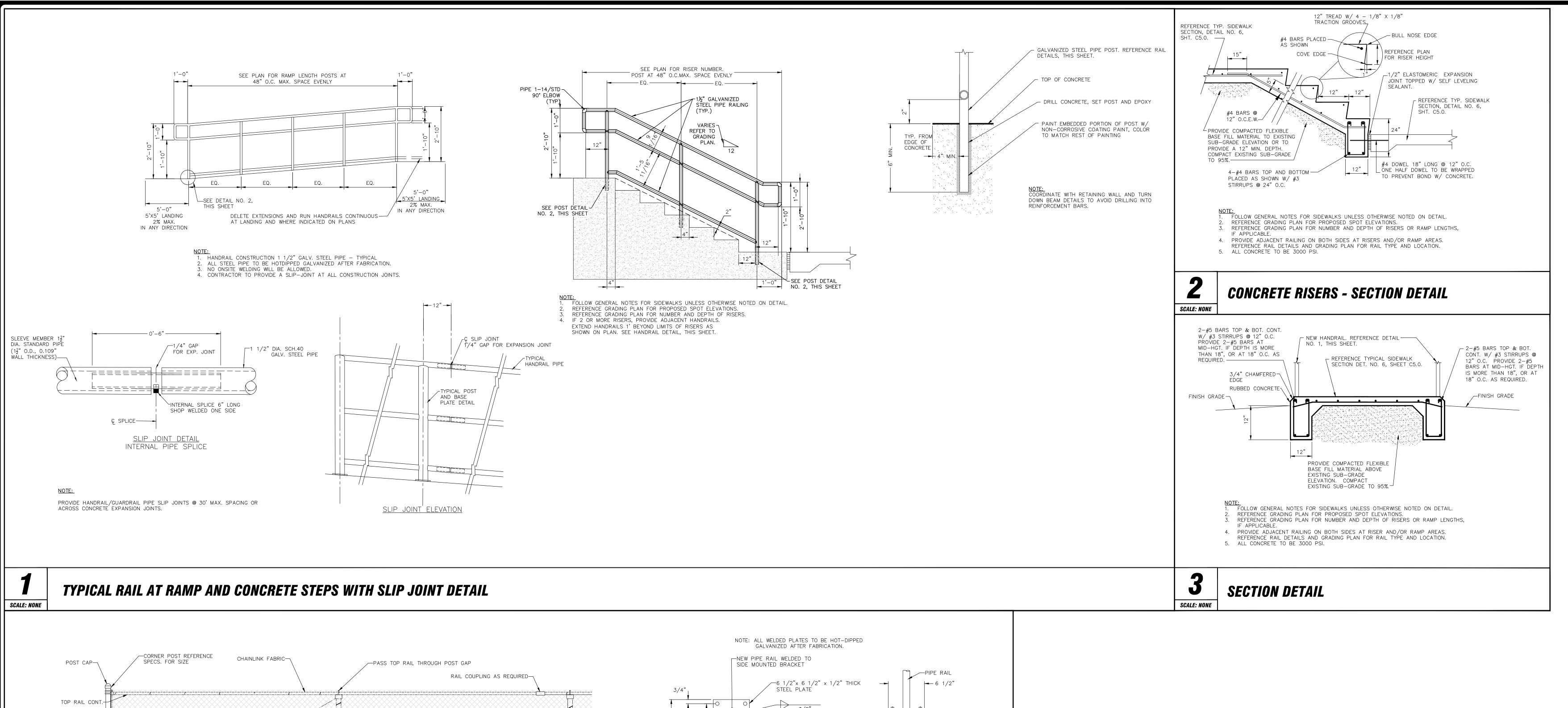


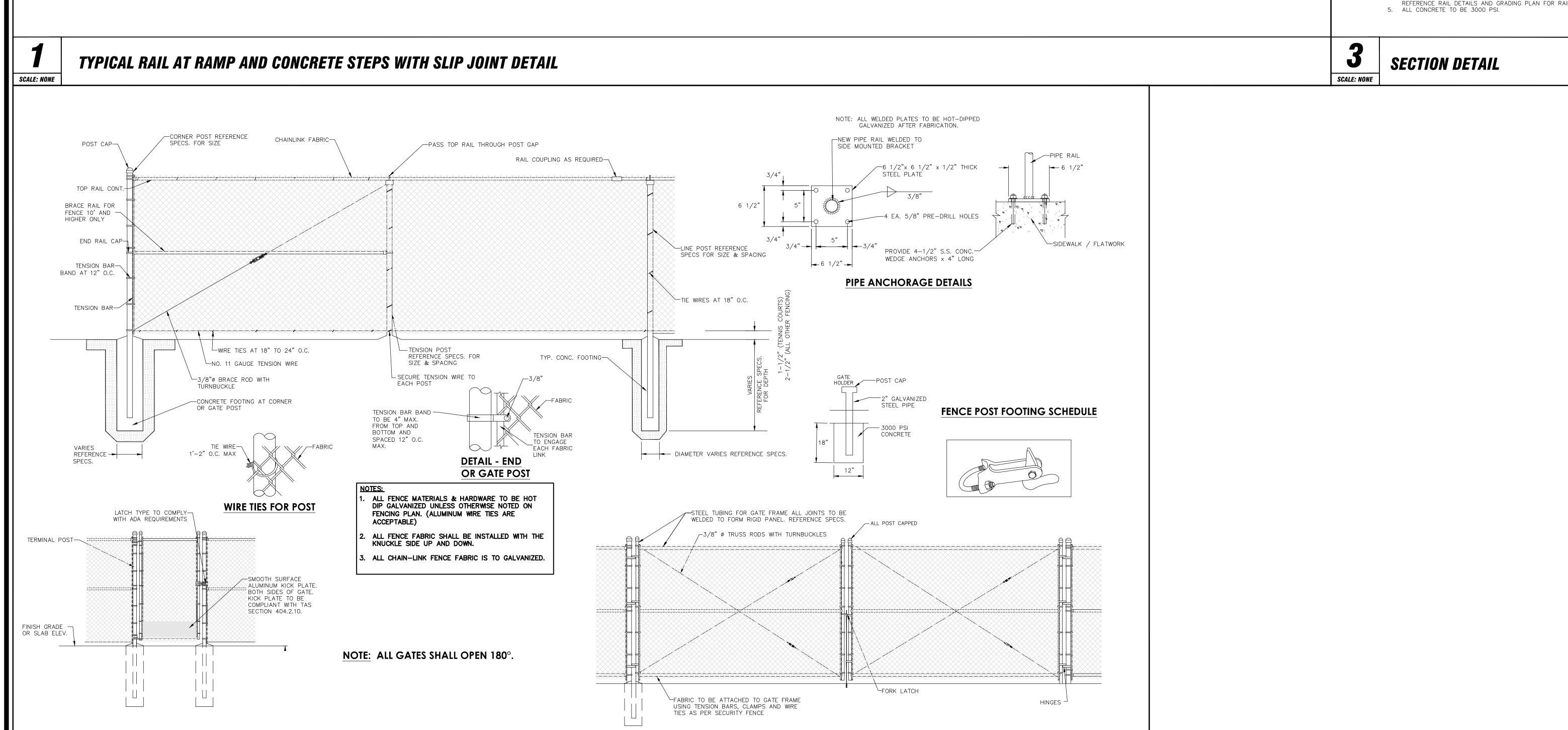
INDIAN SPRINGS ES

SITE DETA

SHEET **C5.0**

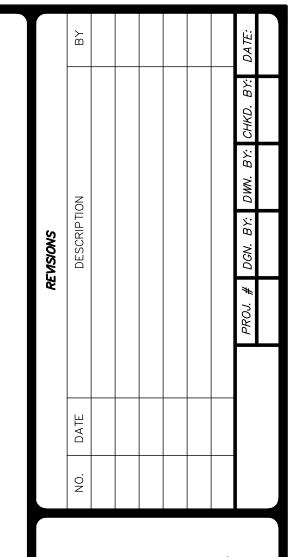






CHAINLINK FENCE DETAILS

SCALE: NONE







SPRING

INDIAN SITE D

ATTACHMENT G

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

SAND FILTER SYSTEM

The biggest threat to the filtering system is exposure to heavy sediment loads that clog the filter media. The sand filter BMP shall be inspected on a quarterly basis and after large storms for the first year of operation. Subsequent inspections shall be semi-annually or more often if deemed necessary.

During Construction - Construction within the area draining to the system shall be complete prior to exposing the filter to stormwater runoff. All exposed areas shall be stabilized to minimize sediment loads.

Inspections - Inspect the sand filter BMP at least twice a year (once during or immediately following wet weather) to evaluate facility operation. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately. With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) must be identified and repaired immediately. Cracks, voids and undermining should be patched/filled to prevent additional structurally damage. Trees and root systems should be removed to prevent growth in cracks and joints that can cause structural damage.

Sediment Removal - Remove sediment from the inlet structure and filtration chamber when sediment buildup reaches a depth of 6 inches or when the proper functioning of inlet and outlet structures is impaired. Sediment should be cleared from the inlet structure at least every year and from the filtration basin at least every 5 years.

Media Replacement – Maintenance of the filter media is necessary when the drawdown time exceeds 48 hours. When this occurs, the upper layer of sand should be removed and replaced with new material meeting the original specifications. Any discolored sand should also be removed and replaced. In filters that have been regularly maintained, this should be limited to the top 2 to 3 inches.

Debris and Litter Removal – Debris and litter that accumulates within the basin should be removed during regular mowing operations and inspections.

Particular attention should be paid to floating debris that can eventually clog the control device or riser.

Filter Underdrain – Clean underdrain piping network to remove any sediment buildup as needed to maintain design drawdown time.

Mowing – Grass areas in and around sand filters must be mowed at least twice annually to limit vegetation height to 18 inches.

- · Cleaning. The unit must be cleaned annually. This cleaning includes removal and appropriate disposal of all water, sediment, oil and grease, and debris that has accumulated within the unit. The Jellyfish Filter is inspected and maintained by professional vacuum cleaning service providers with experience in the maintenance of underground tanks, sewers and catch basins. Since some of the maintenance procedures require manned entry into the Jellyfish structure, only professional maintenance service providers trained in confined space entry procedures should enter the vessel. Service provider companies typically have personnel who are trained and certified in confined space entry procedures according to local, state, and federal standards.
- · Filter Cartridge Testing. Filter cartridges should be tested for adequate flow rate, every 12 months and cleaned and re-commissioned, or replaced if necessary. A manual backflush must be performed on a single draindown cartridge using a Jellyfish Cartridge Backflush pipe (described in the Jellyfish Filter Owner's manual). If the time required to drain 14 gallons of backflush water from the Backflush Pipe (from top of pipe to the top of the open flapper valve) exceeds 15 seconds, it is recommended to perform a manual backflush on each of the cartridges. After the manual backflush, the draindown test should be repeated on a single cartridge to determine if the cartridge can drain 14 gallons of water in 15 seconds. If the cartridge still does not achieve the design flow rate, it must be replaced. The unit should be cleaned out immediately after an oil, fuel or chemical spill.
- · Filter Cartridge Cleaning. This cartridge cleaning procedure is performed by removing the cartridge from the cartridge deck and externally rinsing the filtration tentacles using a low-pressure water sprayer, as described in the Jellyfish Filter Owner's Manual. If this procedure is performed within the structure, the cartridge or individual filtration tentacles should be rinsed while safely suspended over the maintenance access wall opening in the cartridge deck, such that rinsate flows into the lower chamber of the Jellyfish Filter. If the rinsing procedure is performed outside the structure, the cartridge or individual filtration tentacles should be rinsed in a suitable basin such as a plastic barrel or tub, and rinsate subsequently poured into the maintenance access wall opening in the cartridge deck. Sediment is subsequently removed from the lower chamber by standard vacuum service.

RECORD KEEPING

Maintenance and inspection records should be kept on file by the Owner of the permanent BMPs for a period of at least three (3) years. Repair and retrofit records should be kept on file by the Owner of the permanent BMPs for a period of at least five (5) years.

Print Name

Signature of Applicant/Owner/Agent

6.9-22

Date

ATTACHMENT I

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

Both permanent and temporary BMP's, as shown on the WPAP Site Plan, shall be used to minimize contamination to surface streams, both during and after construction. During construction, temporary BMPs will consist of silt fence and bagged gravel inlet filters. After construction, the permanent BMPs for the overall site will consist of the existing grassy swales, VFS, and extended detention basin as well as the proposed JellyFish Filter system and proposed VFS.

The proposed BMPs and other storm drainage systems are designed to avoid or minimize surface stream contamination and changes in the way in which water enters a stream. The proposed JellyFish filter will remove contaminations from the proposed on-site runoff.

Agent Authorization Form

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

1	John E. Chapman III	
	Print Name	
	Superintendent	
	Title - Owner/President/Other	
of	Comal Independent School District	
	Corporation/Partnership/Entity Name	
have authorized	Moy Tarin Ramirez Engineers, LLC	
	Print Name of Agent/Engineer	
of	Moy Tarin Ramirez Engineers, LLC	
	Print Name of Firm	

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

I also understand that:

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

SIGNATURE PAGE:

Applicant's Signature

May 23, 2023 Date

THE STATE OF Texas §
County of Comal §

BEFORE ME, the undersigned authority, on this day personally appeared **bhr Liver TIL** 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 23

NOTARY PUBLIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: Z-19-Z0Z4

Application Fee Form

Texas Commission on Environmental Quality							
Name of Proposed Regulated Entity: CISD INDIAN SPRINGS ELEMENTARY SCHOOL							
Regulated Entity Location: 25751 Wilderness Oak, San Antonio, TX 78261							
Name of Customer: Comal ISD							
Contact Person: <u>Jeffrey Smith</u>	Pho	one: <u>830-221-2000</u>					
Customer Reference Number (if issu	ied):CN <u>600249825</u>						
Regulated Entity Reference Number	(if issued):RN <u>1061</u>	17658					
Austin Regional Office (3373)							
Hays	Travis	w	/illiamson				
San Antonio Regional Office (3362)							
⊠ Bexar	Medina	□ υ	valde				
Comal	Kinney						
Application fees must be paid by che	eck, certified check,	or money order, payal	ole to the Texas				
Commission on Environmental Qua							
form must be submitted with your							
Austin Regional Office		San Antonio Regional C	Office				
Mailed to: TCEQ - Cashier		Overnight Delivery to:					
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	e Trans	ition Zone				
Type of Plan		Size	Fee Due				
Water Pollution Abatement Plan, Co	ntributing Zone						
Plan: One Single Family Residential [Owelling	Acres	\$				
Water Pollution Abatement Plan, Co	ntributing Zone						
Plan: Multiple Single Family Residen	tial and Parks	Acres	\$				
Water Pollution Abatement Plan, Co	ntributing Zone						
Plan: Non-residential		15.20 Acres	\$ 6,500.00				
	1.5	\$					
Sewage Collection System		L.F.	Ŷ				
Lift Stations without sewer lines		Acres	\$				
	ge Tank Facility						
Lift Stations without sewer lines	ge Tank Facility	Acres	\$				
Lift Stations without sewer lines Underground or Aboveground Stora	ge Tank Facility	Acres Tanks	\$ \$				
Lift Stations without sewer lines Underground or Aboveground Stora Piping System(s)(only)	ge Tank Facility	Acres Tanks Each	\$ \$ \$				
Lift Stations without sewer lines Underground or Aboveground Stora Piping System(s)(only) Exception	ge Tank Facility	Acres Tanks Each Each	\$ \$ \$ \$				

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1 Peason fo	r Suhmis	sion (If other is ch	hocked please d	lacarih	o in snace r	orovide	nd)				
		tration or Authoriz	•		, ,		•	the program	applicatio	n.)	
Renewal (Core Data Form should be submitted with the renewal form)											
2. Customer Reference Number (if issued) Follow this link to search 3. Regulated Entity Reference Number (if issued)								f issued)			
	CN 600249825 Follow this link to search for CN or RN numbers in Central Registry** Central Registry** S. Regulated Entity Reference Number (If Issued) RN 106117658										
ECTION II: Customer Information											
4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)											
☐ New Cust☐ Change in		me (Verifiable with			o Customer of State or ⁻				•	Ū	Entity Ownership
The Custo	mer Nan	ne submitted	here may be	upda	ated auto	matic	allv ba	sed on wh	hat is cu	rrent and	active with the
		State (SOS)	-	-			-				
6. Customer	Legal Nar	ne (If an individual,	print last name fir	rst: eg:	: Doe, John)		<u>If ne</u>	ew Customer,	enter previ	ious Custome	er below:
7. TX SOS/CI	PA Filing I	Number	8. TX State Ta	ix ID (1	11 digits)		9. F	ederal Tax I	D (9 digits)	10. DUNS	Number (if applicable)
11. Type of C	Customer:	☐ Corporation	on		Individ	ual		Partnershi	p: Gener	ral Limited	
-		County Federal	State Other		Sole P	ropriet	orship	Other:			
12. Number o	of Employ	ees 101-250	251-500	☐ 5 ^t	01 and high		13.	Independen Yes	tly Owned	l and Opera	ted?
14. Custome	r Role (Pro	oposed or Actual) –	as it relates to the				this form	. Please check	k one of the	following	
Owner Occupatio	nal License	☐ Operato	or nsible Party]	Owner & Voluntary			icant]Other:		
15. Mailing Address:											
	City			Sta	ate		ZIP			ZIP + 4	
16. Country	Mailing In	formation (if outsid	le USA)			17. E	-Mail Ad	Idress (if appl	licable)		
18. Telephon	e Number		1:	9. Ext	ension or C	Code		20. F	ax Numbe	r (if applicat	ole)
()	-							()	-	
SECTION	III: Re	egulated En	tity Inforn	natio	on						
21. General F	Regulated	Entity Information	on (If 'New Regu	ulated	Entity" is se	electea	below th	his form shou	ıld be acco	mpanied by	a permit application)
☐ New Regu	ulated Enti	ty Update	to Regulated En	tity Na	ame 🔲 l	Update	to Regu	ılated Entity I	Information	1	
_		ity Name subi Indings such a	•	•		order	to me	et TCEQ A	gency D	ata Stano	lards (removal
		ame (Enter name o			•	is takin	g place.)				
CISD IND	OIAN SF	PRINGS ELE	MENTARY	Z SCI	HOOL						

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23. Street Address of	25751 V	Wilderness Oa	ak								
the Regulated Entity:											
(No PO Boxes)	City	SanAntonio	State	TX	ZIP	78261		ZIP + 4			
24. County	Bexar		-	1	1	1.0201		1 -			
		Inter Physical Lo	cation Descript	ion if no str	eet address	s is provide	ed.				
25. Description to Physical Location:		Enter Physical Location Description if no street address is provided. Near the corner of Bulverde Rd and Wilderness Oaks.									
26. Nearest City	ı					State		Near	rest ZIP Code		
San Antonio						TX		782	61		
27. Latitude (N) In Decir	nal:	29.68489			•	N) In Decim	nal:	98.43697			
Degrees	Minutes	S	econds	Degree	es	Minu	ıtes		Seconds		
29		41	05.61		98		26	,	13.10		
29. Primary SIC Code (4	digits) 30.	Secondary SIC	Code (4 digits)	31. Primai (5 or 6 digits	ry NAICS C	ode	32. Sec (5 or 6 dig	ondary NAI	CS Code		
8211				611110							
33. What is the Primary	Business o	of this entity?	Do not repeat the SIC	C or NAICS desc	cription.)						
Elementary School											
				25751 W	ilderness (Dak					
34. Mailing											
Address:	City	City San Antonio State				782	61	ZIP + 4			
35. E-Mail Address			5.00	jeffrey.smit	ZIP h@comalis						
	one Numbe	r	37. Extensi	•	<u> </u>		ax Numl	ber (if appli	cable)		
•	885-9300						() -	•		
9. TCEQ Programs and II orm. See the Core Data Form	Numbers instructions fo	Check all Programs or additional guidance	and write in the pe	ermits/registra	tion numbers	that will be a	ffected by	the updates	submitted on this		
☐ Dam Safety	☐ Distric	_		uifer	er				Hazardous Waste		
☐ Municipal Solid Waste	☐ New S	Source Review Air	OSSF		☐ Petroleum Storage Tank			PWS			
_	<u> </u>		_								
Sludge	Storm	Water	☐ Title V Air		Tires			Used Oil			
☐ Voluntary Cleanup	□ Wasto	Water	☐ Wastewater	Aariculture	☐ Water	Righte		Other:			
□ Voluntary Cleanup □ Waste Water □ Was			vvasiewalel .	, ignoultule	vvalel	i ayino		Outel.			
SECTION IV: Pre	parer I	nformation	I		<u> </u>						
40. Sean Smith,	P.E.			41. Title:	Senio	or Vice P	resider	nt			
42. Telephone Number	43. Ext./Co	de 44. Fax	Number	45. E-Ma	ail Address	3					
(210) 698-5051			698-5085	ssmith	@mtren	gineers.c	om				
,		1 (= 10)									
SECTION V. And	horized			~~		<u> </u>					
SECTION V: Aut 6. By my signature below.		Signature					is true an	d complete	and that I have		

identified in field 39.

Company:	Moy Tarin Ramirez Engineers, LLC Job Title: Senior V				
Name (In Print): Sean Smith, P.E.			Phone:	(210) 698- 5051	
Signature:	he hit			Date:	

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