



BRUSHY CREEK ELEMENTARY SCHOOL

3800 Stonebridge Drive
Round Rock, Williamson County, Texas

WPAP-EXCEPTION

Prepared by:

GARZA EMC, LLC.
7708 Rialto Blvd., Suite 125
Austin, Texas 78735
TBPE Registration No. F-1462

From: James Slone <james.slone@tceq.texas.gov>
Sent: Monday, July 1, 2024 9:18 AM
To: Julia Spelhaug
Cc: Ricardo Torres
Subject: RE: Brushy Creek Elementary school Approval

Follow Up Flag: Follow up
Flag Status: Flagged

Julia,
Approval of an Exception Request will be required for the project. Please retain this email for your records, and present it with the Exception Request application submittal.
Have a great week,
Bo

James "Bo" Slone, P.G.
Geoscientist
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality
(512) 239-6994

From: Julia Spelhaug <jspelhaug@garzaemc.com>
Sent: Monday, July 1, 2024 9:15 AM
To: James Slone <james.slone@tceq.texas.gov>
Cc: Ricardo Torres <rtorres@garzaemc.com>
Subject: FW: Brushy Creek Elementary school Approval

Hi Bo,

Thanks for the quick call. To recap our conversation, the Owner on this project is considering some material changes that would impact the approved amount of impervious cover noted on the attached approval letter.

The updated total for proposed impervious cover would not exceed the existing impervious cover on the site but would be more than what is specified on the approval letter. There are no on-site BMPs, as the site utilizes a regional pond, so there would be no changes to BMP design.

Per our discussion, I understand that we can submit an Exception Request for this change. Please confirm.

Thank you.

Julia L. Spelhaug, P.E.
Vice President



7708 Rialto Blvd., Ste. 125
Austin, TX 78735
512.298.3284 x106 TEL
512.971.5533 CELL
jspelhaug@garzaemc.com

Please visit us at www.garzaemc.com
TBPE #F-14629

From: James Slone <james.slone@tceq.texas.gov>

Sent: Friday, December 2, 2022 3:29 PM

To: Hillary Paris <hparis@garzaemc.com>

Cc: Ricardo Torres <rtorres@garzaemc.com>

Subject: Brushy Creek Elementary school Approval

The approval is attached. A hard copy will mailed to your client. Have a great weekend.
Bo

James "Bo" Slone, P.G.
Geoscientist
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality
(512) 239-5711

EDWARDS
AQUIFER
APPLICATION
COVER PAGE
(TCEQ-20705)

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

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

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: BRUSHY CREEK ELEMENTARY SCHOOL					2. Regulated Entity No.: 104928809				
3. Customer Name: Round Rock Independent School District					4. Customer No.: 600355358				
5. Project Type: (Please circle/check one)	New	Modification			Extension	Exception			
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-residential				8. Site (acres):		10.9	
9. Application Fee:	\$500.00		10. Permanent BMP(s):			Regional Wet Pond			
11. SCS (Linear Ft.):	N/A✓		12. AST/UST (No. Tanks):			N/A			
13. County:	Williamson		14. Watershed:			Brushy Creek			

Application Distribution

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

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

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

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

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.	
Julia Spelhaug, P.E.	
Print Name of Customer/Authorized Agent	07/17/2024
Signature of Customer/Authorized Agent	Date

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

**GENERAL
INFORMATION
FORM
(TCEQ-0587)**

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

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

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

Signature

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

Print Name of Customer/Agent: Julia Spelhaug, P.E.

Date: 07/5/2022

Signature of Customer/Agent:

Julia Spelhaug

Project Information

1. Regulated Entity Name: BRUSHY CREEK ELEMENTARY SCHOOL

2. County: Williamson County

3. Stream Basin: Brushy Creek

4. Groundwater Conservation District (If applicable): N/A

5. Edwards Aquifer Zone:

☒ Recharge Zone

☐ Transition Zone

6. Plan Type:

☐ WPAP

☐ SCS

☐ Modification

☐ AST

☐ UST

☒ Exception Request

7. Customer (Applicant):

Contact Person: Nathan Shetter
Entity: Round Rock ISD
Mailing Address: 1311 Round Rock Ave
City, State: Round Rock, TX Zip: 78681
Telephone: 512-464-5908 FAX: _____
Email Address: nathan_shetter@roundrockisd.org

8. Agent/Representative (If any):

Contact Person: Julia Spelhaug, P.E.
Entity: GarzaEMC
Mailing Address: 7708 Rialto Blvd Ste. 125
City, State: Austin, Texas Zip: 78735
Telephone: 512-298-3284 FAX: _____
Email Address: jspelhaug@garzaemc.com

9. Project Location:

- ☐ The project site is located inside the city limits of _____.
☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Round Rock.
☐ The project site is not located within any city's limits or ETJ.

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

The site is located at 3800 Stonebridge Dr, Round Rock Texas 78681. It is one tract totaling 10.9 ac. The site is bound by Stonebridge Dr to the west and south, Great Oaks Drive to the east, and a residential neighborhood to the north.

11. ☒ **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:
- ☒ Project site boundaries.
 - ☒ USGS Quadrangle Name(s).
 - ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
 - ☒ Drainage path from the project site to the boundary of the Recharge Zone.
13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned.** Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

☒ Survey staking will be completed by this date: January 2022

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

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

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

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

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

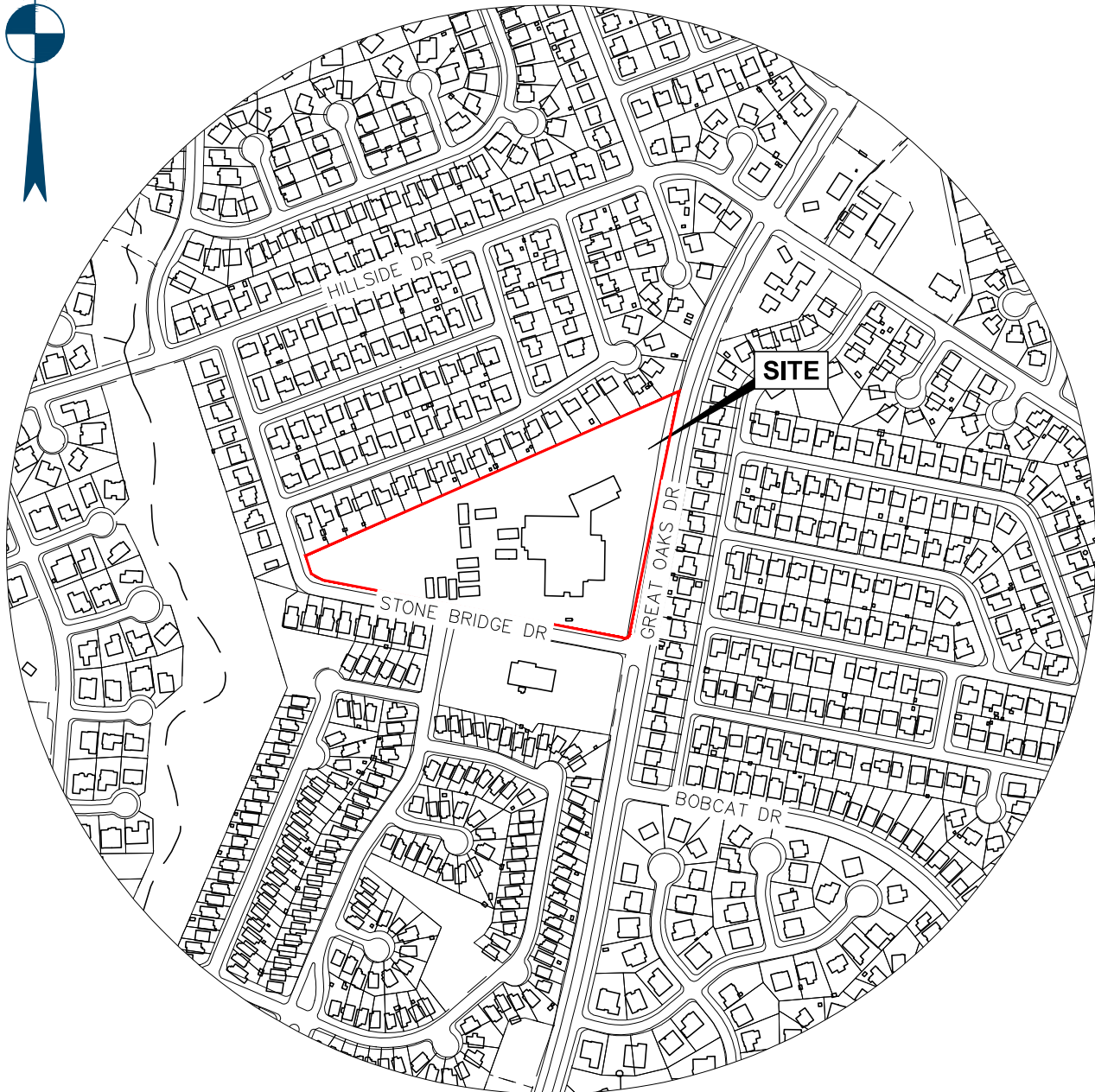
- ☐ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- ☒ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- ☐ A request for an extension to a previously approved plan.

19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

- ☒ TCEQ cashier
- ☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

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

21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.



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Austin, Texas 78735
Tel. (512) 298-3284 Fax (512) 298-2592
TBPE # F-14629
GarzaEMC, LLC © Copyright 2021

BRUSHY CREEK ELEMENTARY SCHOOL
3800 STONEBRIDGE DR

**ROUND ROCK INDEPENDENT
SCHOOL DISTRICT**

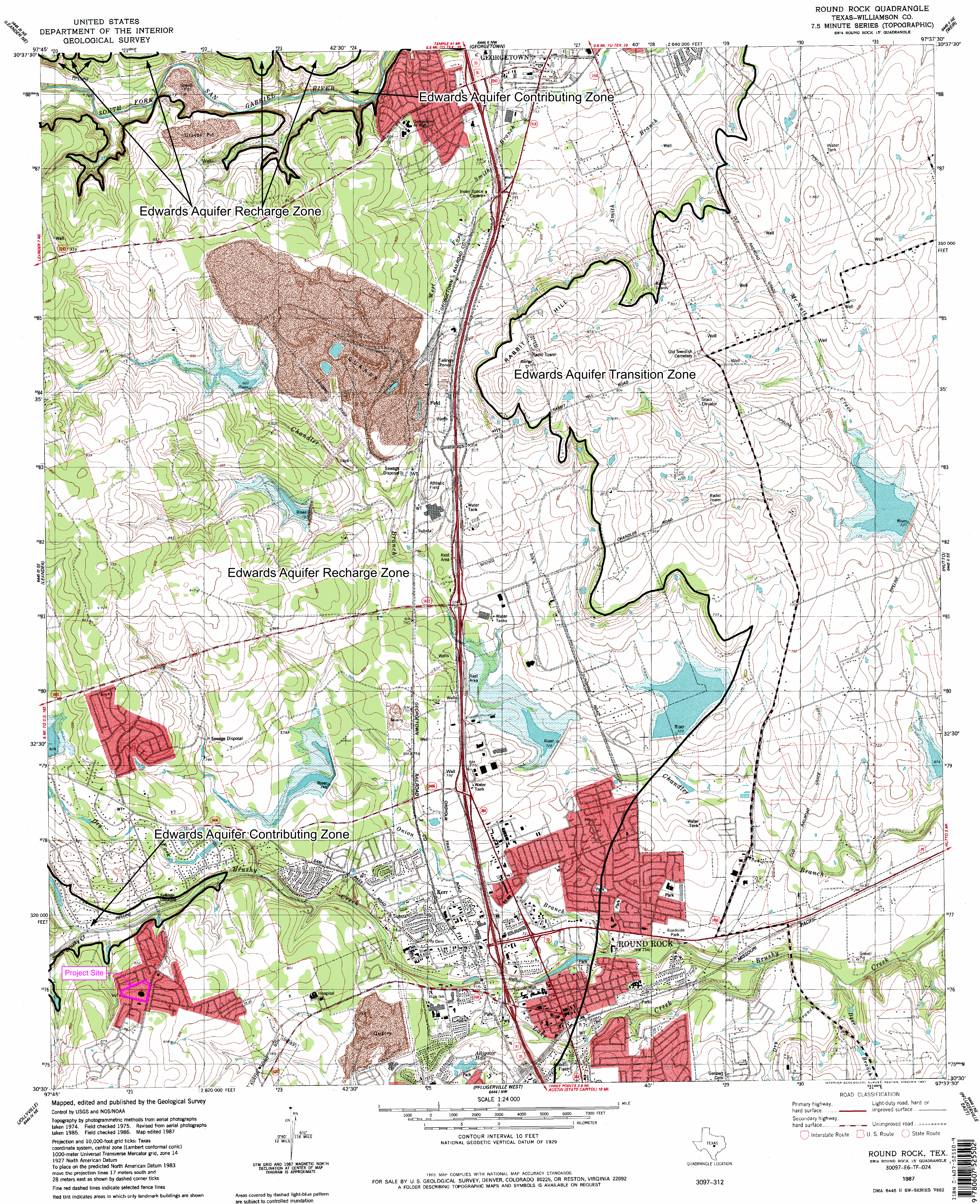
EXHIBIT 1

DATE: 09/27/2021

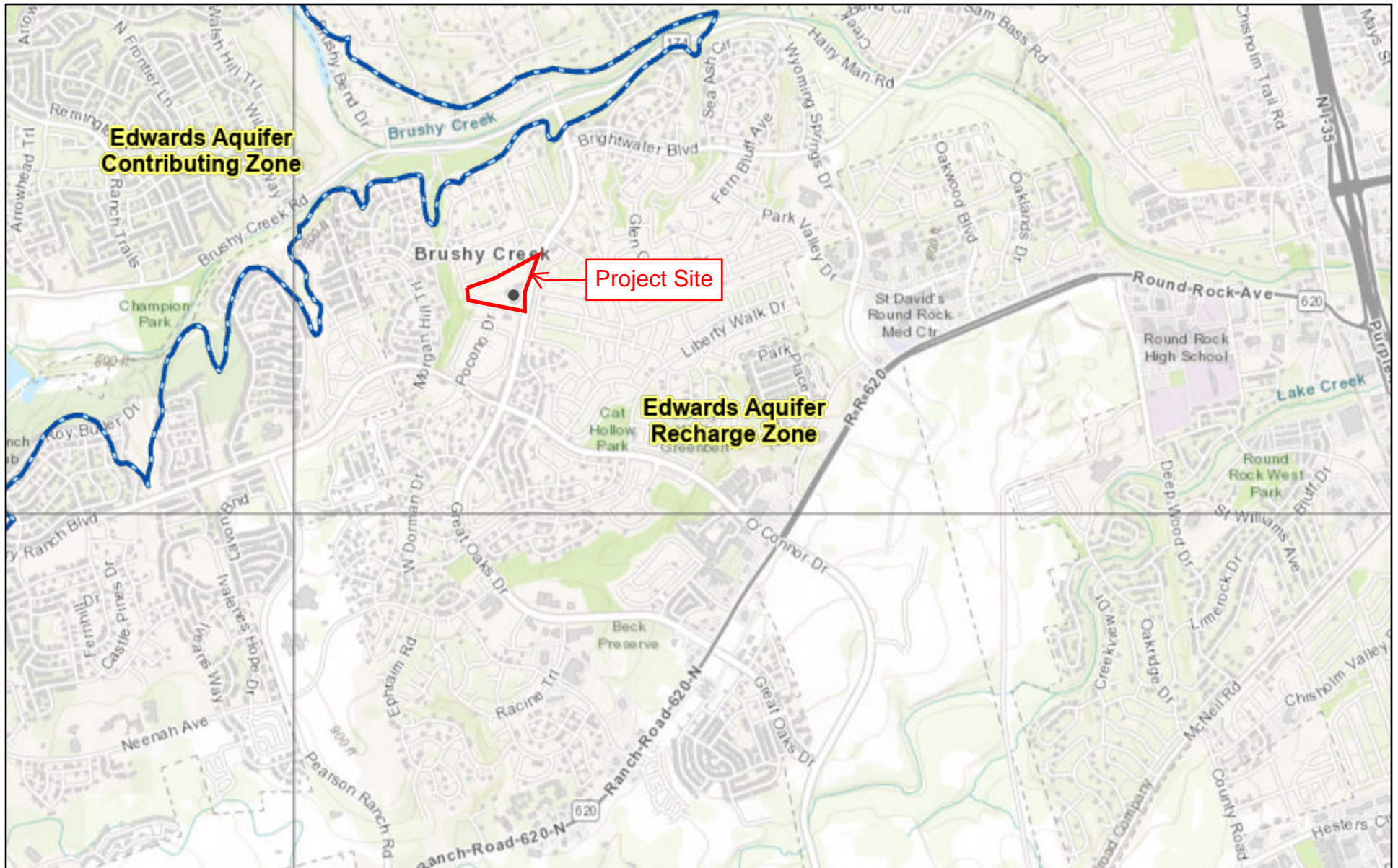
SCALE: NTS

DRAWN BY: LRT

PROJECT No. 113635-00001



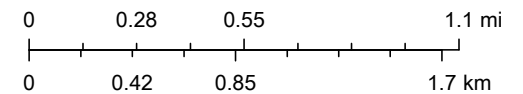
Edwards Aquifer Viewer Custom Print



10/19/2021, 7:43:51 AM

- Edwards Aquifer Boundary central line
- Edwards Aquifer Boundary
- Edwards Aquifer Label
- TX Counties
- TCEQ_EDWARDS_OFFICIAL_MAPS

1:36,112



Austin Community College, City of Austin, County of Williamson, Texas Parks

Web AppBuilder for ArcGIS

Austin Community College, City of Austin, County of Williamson, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA | TCEQ |

ATTACHMENT C

PROJECT DESCRIPTION

Brushy Creek Elementary School is located near Stonebridge Drive and Great Oaks Drive intersection. The proposed improvements include a new 15,865-sf school building, interior renovation within the existing school building, sidewalks, and utility improvements.

The project lies within the extra-territorial jurisdiction of the City of Round Rock and is a single tract of approximately 10.91-acres. The existing site conditions include a school with portable buildings, a playground, two parking lots, and a recreational basketball court and track. The existing school was built in 1980. The site is bound by adjacent residential lots to the north, southwest, and east. The property is bounded by Stonebridge Dr along the southern and western boundary, and Great Oaks Dr along the eastern boundary. Currently, the site has approximately 172,983 square feet of existing impervious cover (3.97-acres or 36.39%). The total impervious cover after construction of the proposed improvements will be 173,925 square feet (3.99-acres or 36.59%). The proposed project is set to demolish the existing portable buildings and associated hardscape.

Water quality and detention pond improvements are not proposed within the project scope. The proposed conditions peak flow runoff rates will not exceed the existing conditions peak flow runoff rates. Additionally, the water quality and detention for this school is treated and accounted for by existing regional wet pond McShirley Mac Pond.

A WPAP for this project was previously approved under EAPP ID No. 11003267, which included an approved proposed impervious cover total of 3.87-acres (35.5%). This Exception Request is being submitted because the Owner is proposing to change the material of the permeable paver fire lane from grass to decomposed granite. Through our coordination with the Brushy Creek MUD and Williamson County reviewers, the decomposed granite material is considered impervious. The changes increase the proposed impervious cover total, and result in an update to the site drainage calculations. The updated calculations show that proposed conditions peak flow runoff rates do not exceed the existing conditions peak flow runoff rates.

**GEOLOGIC
ASSESSMENT
FORM
(TCEQ-0585)**

EXCEPTION TO THE REQUIRED GEOLOGIC ASSESSMENT

The site is an existing school with portable buildings, playground, two parking lots, and a recreational basketball court and track. The proposed improvements will be demolishing and removing the existing hardscape, and portable buildings in order to construct the proposed building in the same area. An exception to the required geologic assessment is requested because the proposed activities are within the previously developed site; therefore, a Geologic Assessment would not reveal any undisturbed, natural geologic condition.

**RECHARGE AND
TRANSITION ZONE
EXCEPTION
REQUEST FORM
(TCEQ-0628)**

Recharge and Transition Zone Exception Request Form

Texas Commission on Environmental Quality

30 TAC §213.9 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 **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Julia Spelhaug, P.E.

Date: 07/5/2024

Signature of Customer/Agent:



Regulated Entity Name: BRUSHY CREEK ELEMENTARY SCHOOL

Exception Request

1. ☒ **Attachment A - Nature of Exception.** A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
2. ☒ **Attachment B - Documentation of Equivalent Water Quality Protection.** Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

3. ☒ 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.
4. ☒ The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
5. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

ATTACHMENT A

NATURE OF EXCEPTION

On behalf of Round Rock ISD, we are submitting a proposed Recharge and Transition Zone Exception Request for Brushy Creek Elementary School. The project is located at 3800 Stonebridge Dr, Round Rock 78681. The proposed improvements include a new 15,865-sf building and a partial building interior renovation with associated hardscape and site utilities.

The site was developed prior to 1988, see below aerial image from TxDOT dated 1988. Currently, the site is an existing school with portable buildings, playground, two parking lots, and a recreational basketball court and track. The site has approximately 172,983 square feet of existing impervious cover (3.97-acres or 36.39%). The total impervious cover after construction of the proposed improvements will be 173,925 square feet (3.99-acres or 36.59%). There is a regional wet pond, Shirley Mac Pond, downstream of the school property that accounts for this site, therefore no water quality or detention is proposed, and the proposed peak runoff rates will be at or under the existing peak runoff rates.

A WPAP for this project was previously approved under EAPP ID No. 11003267, which included an approved proposed impervious cover total of 3.87-acres (35.5%). This Exception Request is being submitted because the Owner is proposing to change the material of the permeable paver fire lane from grass to decomposed granite. Through our coordination with the Brushy Creek MUD and Williamson County reviewers, the decomposed granite material is considered impervious. The changes increase the proposed impervious cover total, and result in an update to the site drainage calculations. The updated calculations show that proposed conditions peak flow runoff rates do not exceed the existing conditions peak flow runoff rates.



Source of aerial:

<https://data.tnris.org/collection?c=dd26beeb-c2b7-4917-a7b6-8711ecbb3553#10.9/30.5826/-97.6641>

ATTACHMENT B

DOCUMENTATION OF EQUIVALENT WATER QUALITY PROTECTION

The school property does not have on-site detention or water quality ponds. Per conversations with Brushy Creek MUD, there exists a regional stormwater facility called Shirley McDonald Park Pond that is being used to provide detention and water quality treatment for this property. The stormwater runoff from the on-site drainage areas is conveyed to and will drain along Great Oaks Drive, then into a drainage easement between Great Oak Cove and Stillhouse Springs. Within the drainage easement, there is an existing drainage channel that conveys drainage to Shirley McDonald Park.

**TEMPORARY
STORMWATER
SECTION
(TCEQ-0602)**

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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


Signature

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

Print Name of Customer/Agent: Julia Spelhaug, P.E.

Date: 07/05/2024

Signature of Customer/Agent:



Regulated Entity Name: BRUSHY CREEK 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.

Sequence of Construction

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

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

- 7. ☒ **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- ☐ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - ☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - ☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - ☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- ☐ **Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
- ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. ☒ **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. ☒ **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

**ATTACHMENT A –
Spill Response Actions
Temporary Stormwater Section / TCEQ-0602**

Fuels and hazardous materials will not be stored at the site during construction of the modification and expansion of the existing building and new building addition, and its improvements ; however, the use of these materials is inherent with the operation of heavy machinery and equipment, which will be used during preparation and construction. Equipment refueling and emergency maintenance will be performed over impervious materials such as mats or drip pans. No routine equipment maintenance will be performed at the site.

In the event of a spill of hydrocarbon or hazardous substance, the City of Austin Hazardous Material Response Team will be contacted (in emergencies via 911). The contractor shall be responsible for adequate cleanup of any chemical spill during construction. The clean up will be performed to the TNRCC Regulatory Guidance Handbook standards, RG-285, June 1997. In the event of substance spill defined by the Reportable Quantities on the TCEQ'S website at <https://www.tceq.texas.gov/response/spills>, the contractor will notify TCEQ of any chemical spills as required and outlined in the TNRCC Regulatory Guidance Handbook, at 512-463-7727 or 512-239-2507.

Reportable quantities as defined by 30 TAC Chapter 327 are as follows:

(a) Hazardous substances. The reportable quantities for hazardous substances shall be:

1. for spills or discharges onto land--the quantity designated as the Final Reportable Quantity (RQ) in Table 302.4 in 40 CPR §302.4; or
2. for spills or discharges into waters in the state--the quantity designated as the Final RQ in Table 302.4 in 40 CPR §302.4, except where the Final RQ is greater than 100 pounds in which case the RQ shall be 100 pounds.

(b) Oil, petroleum product, and used oil.

1. The RQ for crude oil and oil other than that defined as petroleum product or used oil shall be:
 - (A) for spills or discharges onto land--210 gallons (five barrels); or
 - (B) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.
2. The RQ for petroleum product and used oil shall be:
 - (A) except as noted in subparagraph (B) of this paragraph, for spills or discharges onto land--25 gallons;
 - (B) for spills or discharges to land from PST exempted facilities--210 gallons (five barrels); or
 - (C) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.

(c) Industrial solid waste or other substances. The RQ for spills or discharges into water in the state shall be 100 pounds.

**ATTACHMENT B –
Potential Sources of Contamination
Temporary Stormwater Section / TCEQ-0602**

Potential sources of contamination at the site include:

1. Sediment and soil from disturbed areas;
2. Construction vehicles tracking mud onto roadways;
3. Fueling of construction vehicles and equipment;
4. Placement of asphaltic products on the road and parking areas;
5. Possible littering around the construction site.

All activities will be constructed in a manner to protect against potential impacts to the environment.

**ATTACHMENT C –
Sequence of Major Activities
Temporary Stormwater Section / TCEQ-0602**

The sequence of major activities for development of the Brushy Elementary School site includes:

1. Install temporary erosion/sediment control and tree protection per approved plans (Approximately 1.81 Acres).
2. Hold required environmental pre-construction conference.
3. Begin demolition of current on-site developments per plans (Approximately 0.77 Acres).
4. Begin trenching for proposed utility improvements (Approximately 0.11 Acres).
5. Install proposed utility improvements (Approximately 0.11 Acres).
6. Begin grading and rough excavation for Classroom addition (Approximately 0.91 Acres).
7. Begin construction of Classroom addition (Approximately 0.36 Acres)
8. Begin construction of hardscape and landscape areas (Approximately 0.55 Acres)
9. Hold environmental post-construction conference.
11. Restore disturbed areas (Approximately 0..55 Acres).
12. Remove temporary erosion/sedimentation controls and tree protection. Restore any areas disturbed during removal of temporary controls.

ATTACHMENT D – Temporary Best Management Practices and Measures Temporary Stormwater Section / TCEQ-0602

Temporary Erosion and Sediment Control Best Management Practices (BMPs) shall be designed and placed in accordance with Brushy Creek MUD, Williamson County, and TNRC requirements. The temporary BMPs as shown on Sheet C.07 of the Site Plans, shall be installed prior to any site preparation work (clear, grubbing, or excavation work.)

Temporary Sediment Trap

A temporary sediment trap will be constructed on-site to prevent sediment from entering the proposed grate inlet.

Stabilized Construction Entrances

Stabilized Construction Entrance will be not provided for this project.

Silt Fence

Silt fence will be installed immediately down-gradient of areas of soil disturbance. A permanent stake will be installed to identify when 50-percent capacity of the silt fence is reached. The proposed locations of silt fence can be seen on Sheet C.11 EROSION & SEDIMENTATION CONTROL PLAN & EROSION & C.12 SEDIMENTATION CONTROL DETAILS

Tree Protection

Tree protection will be installed around trees to prevent tree damage and potential damage or disturbance of the tree's root zone. The proposed locations for tree protection can be seen on Sheet C.11 EROSION & SEDIMENTATION CONTROL PLAN & EROSION & C.12 SEDIMENTATION CONTROL DETAILS.

Dust Control

Dust control can prevent blowing and movement of dust from exposed soil surfaces, reduces on-site and off-site damage, and improves traffic safety. Dust control will be implemented during all phases of site construction.

The project site slopes gently north to the existing drainage channel on the northern boundary, and then drain northeast onto Great Oaks Drive.

Potential pollutants generated on site are unlikely to enter any nearby surface water or sensitive features due to the absence of either of the features near the site. The controls discussed above will prevent pollutants generated on site from making to waterway or other sensitive features.

Naturally Occurring Sensitive Features

There are no known naturally occurring sensitive features on the existing school site. However, should features be encountered during construction, the following will be implemented:

- Notify the TCEQ Regional Office
- Notify the City of Austin Department of Environmental Resources
- Implement appropriate mitigation, such as filling the feature with clean gravel. This will prevent obstruction of low to the feature while allowing continued construction of the utilities.

ATTACHMENT F – Structural Practices Temporary Stormwater Section / TCEQ-0602

Structural practices are utilized to limit the pollution potential from exposed areas at the project site. The exposed areas that are to be protected include the following: graded loose topsoil, spoil piles from pond excavation, deep grading, trenching supply lines and drain lines, or miscellaneous accumulations of soils from trenching.

Stabilized Construction Entrances

Stabilized Construction Entrance is not provided for this project. The existing parking lot will provide access to the project site during construction.

Dikes and Diversions

Areas that might be disturbed from stormwater runoff will be protected using dikes and diversions intended to intercept runoff and divert it to silt fencing or the wet pond.

Silt Fences / Mulch Sock

Silt fencing, trenching, and mulch sock will be used as the primary structure control to divert overland flows away from erodible sites and keep and runoff generated onsite within construction boundaries. During temporary pauses in construction activities or after construction is completed for a specific activity, protective fencing will be installed around each soil accumulation to minimize the risk of erosion.

Stabilization

Stabilization measures shall be initiated soon as practical in parts of the site where construction activities have temporary or permanently ceased. Smaller spoil piles will be protected with plastic sheeting or tarp coverings. Larger stockpiles will be protected/stabilized with erosion blankets and/or mulching. The cover will be securely fastened to the surrounding ground via stakes, gravel, or other compacted material that will resist erosion and undercutting.

Rock Berm

Rock berms are proposed in various location in the existing drainage channels to prevent silts and sediments from discharging offsite.

**ATTACHMENT G –
Drainage Area Map
Temporary Stormwater Section / TCEQ-0602**

The drainage area maps for Brushy Creek Elementary School are provided on Sheet C.09 Existing Drainage Area Map and Sheet C.10 Proposed Drainage Area Map. All disturbed areas within a drainage area on the project site are less than 10 acres; therefore a temporary sediment basin is not required.

**ATTACHMENT I –
Inspection and Maintenance for BMPs
Temporary Stormwater Section / TCEQ-0602**

A weekly assessment of the Temporary BMP and Measures will occur to maintain compliance of control measures with ongoing construction progress. Weekly inspections will be documented on a form such as the one included at the end of this Attachment. Records will be maintained by the contractor.

Any control measure needing updating due to unanticipated activities will be documented by the site project manager and the individual in charge of that specific activity (environmental, utility, roadway, etc.). All activities not restricted and recorded in the BMP and Measures will cease operations until written documentation is recorded and approval by all appropriate involved parties is granted. Any Temporary BMP and Measures change will be submitted to Engineer of Record and all affected contractors prior to activity resumption.

If, under this periodic review, a control measure becomes either obsolete, inappropriate for that activity, unattainable due to unexpected site situations, or any new activities not anticipated in the original BMP and Measures, the control measures will be immediately modified to suit that particular activity.

Completing versions of a table like one attached to this Attachment I will be regularly completed in order to verify inspection and maintenance activities are occurring at the agreed scheduled timetable.

The following BMP's must be maintained after a rain storm:

Inlet protection and temporary sedimentation traps must be checked for silt build up and when it is prohibiting the conveyance of water into the storm sewer, the silt must be removed.

The construction entrance shall be inspected after a rain storm to make sure it is still in adequate condition and intact to support and function as designed.

The washout pits shall be monitored and cleaned after a storm to limit the pollution and run-off.

The silt fences around the stock piles need to be checked and cleaned after a rain storm to remove the silt deposits over 6 inches.

Repairs must be made immediately to the damaged areas and when the silt accumulates in the controls to 6 inches it must be removed.

Week_____

Week_____

[illegible]

ATTACHMENT J – Schedule of Interim and Permanent Soil Stabilization Practices Temporary Stormwater Section / TCEQ-0602

Soil stabilization practices will be implanted throughout the construction of Brushy Creek Elementary School project. A general schedule of interim and permanent soil stabilization practices is provided below:

Prior to Site Disturbance

Install all temporary erosion and sediment control measures.

During Construction

Maintain all temporary erosion and sediment control measures, and perform scheduled inspections. Protect vegetation including trees in developed and undeveloped portions of the site, and native grass to the extent practical. Measures will be taken to stabilize soil in areas where construction has temporarily ceased or has been permanently completed. Stabilization measures during construction may include, but are not limited to the following:

- Vegetation -effectively reduces erosion in swales, stockpiles, berms, mild slopes, and along roadways. Matting, mulches, and grading may be required to assist the establishment of vegetation.
- Blankets and/or Matting - good erosion control during establishment period of vegetation. Excellent placement in channels, swales, diversion dikes, steep slopes.
- Mulch - applied to unprotected soil for erosion control and conservation of soil moisture. Can be applied temporarily for new vegetation growth, or be permanent such as wood or rock chips, decorative bark, or other wood products.
- Sod - placement dictated for disturbed areas requiring immediate vegetative covering. Near water-prone areas or near residential areas where aesthetics are factors.

After Completion of Construction

Install all permanent erosion and sediment controls including protection of storm drains and permanent vegetation.

After Completion of Permanent Erosion and Sediment Controls

Remove all temporary erosion and sediment control features and restore areas disturbed by their removal.

Bare soils should be seeded or otherwise stabilized within 14 calendar days after final grading or where construction activity has temporarily ceased for more than 21 days.

**PERMANENT
STORMWATER
SECTION
(TCEQ-0600)**

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: Julia Spelhaug, P.E.

Date: 07/05/2021

Signature of Customer/Agent



Regulated Entity Name: BRUSHY CREEK ELEMENTARY SCHOOL

Permanent Best Management Practices (BMPs)

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

1. ☐ Permanent BMPs and measures must be implemented to control the discharge of 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.

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

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

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

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

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

6. ☒ **Attachment B - BMPs for Upgradient Stormwater.**

- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- ☒ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7. ☒ **Attachment C - BMPs for On-site Stormwater.**
- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8. ☐ **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- ☒ N/A
9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- ☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
- ☐ **Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. ☐ **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- ☐ Design calculations (TSS removal calculations)
- ☐ TCEQ construction notes
- ☐ All geologic features
- ☐ All proposed structural BMP(s) plans and specifications
- ☒ N/A

11. ☐ **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- ☐ Prepared and certified by the engineer designing the permanent BMPs and measures
 - ☐ Signed by the owner or responsible party
 - ☐ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
 - ☐ A discussion of record keeping procedures
- ☒ N/A
12. ☐ **Attachment H - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
- ☒ N/A
13. ☐ **Attachment I - Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.
- ☒ N/A

Responsibility for Maintenance of Permanent BMP(s)

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

14. ☐ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- ☒ N/A
15. ☐ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- ☒ N/A

ATTACHMENT B
BMP FOR UPGRADIENT STORMWATER

There are no proposed permanent BMPs as part of this project because there is an existing regional pond providing stormwater management (water quality and detention) for the site. Surface water, groundwater, or stormwater that originates upgradient from the site is diverted around the site by the adjacent street curb and gutter systems.

ATTACHMENT C

BMPS FOR ON-SITE STORMWATER

The primary purpose for BMPs is to prevent degradation of groundwater. The school property does not have an on-site detention or water quality ponds. There exists a regional wetland called Shirley McDonald Park Pond that is being used to provide detention and treat water quality for this property. The stormwater runoff from the property's all drainage areas will drain along Great Oaks Drive, then into a drainage easement between Great Oak Cove and Stillhouse Springs. Within a drainage easement, there is an existing drainage channel that will drain to Shirley McDonald Park Pond. Shirley McDonald Park is located southwest of the intersection of Hairy Man Rd and Great Oaks Dr.

The proposed peak flow runoff leaving the site does not exceed existing conditions peak flow runoff leaving the site. Therefore, no changes or modifications to the regional pond are proposed.

**AGENT
AUTHORIZATION
FORM
(TCEQ-0599)**

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

I Terry Worcester
Print Name

Chief Operating Officer
Title - Owner/President/Other

of Round Rock ISD
Corporation/Partnership/Entity Name

have authorized Hillary Paris
Print Name of Agent/Engineer

of GarzaEMC
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:

Terry Worcester
Applicant's Signature

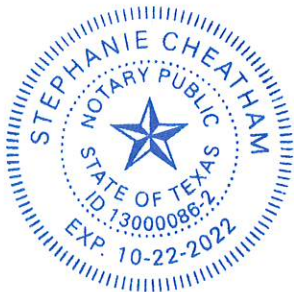
07 20 2022
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Terry Worcester 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 20 day of July, 2022



Stephanie Cheatham
NOTARY PUBLIC
Stephanie Cheatham
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 10-22-22

**APPLICATION
FEE FORM
(TCEQ-0574)**

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: BRUSHY CREEK ELEMENTARY SCHOOL

Regulated Entity Location: 1311 Round Rock Ave, Round Rock TX 78681

Name of Customer: Round Rock Independent School District

Contact Person: Nathan Setter

Phone: 512-464-5908

Customer Reference Number (if issued): CN 600355358

Regulated Entity Reference Number (if issued): RN 104928809

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357


Site Location (Check All That Apply):

☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	1 Each	\$ 500
Extension of Time	Each	\$

Signature: 

Date: 07/17/2024

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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

**CORE DATA
FORM
(TCEQ-10400)**



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600355358		RN 104928809

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Round Rock Independent School District			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:			
	City	State	ZIP
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
() -		() -	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)		
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information		
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).		
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)		

23. Street Address of the Regulated Entity: (No PO Boxes)	3800 STONEBRIDGE DR.						
	City	Round Rock	State	TX	ZIP	78681	ZIP + 4
24. County	USA						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:					
26. Nearest City	State		Nearest ZIP Code		
27. Latitude (N) In Decimal:	30.511736		28. Longitude (W) In Decimal:	-97.73825	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	30	42.25N	97	44	17.70W
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)	
8211			611110		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)					
34. Mailing Address:					
	City		State		ZIP
35. E-Mail Address:					
36. Telephone Number		37. Extension or Code		38. Fax Number (if applicable)	
() -				() -	

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


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
		11-06033102 11-07030901 11-07030901		
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

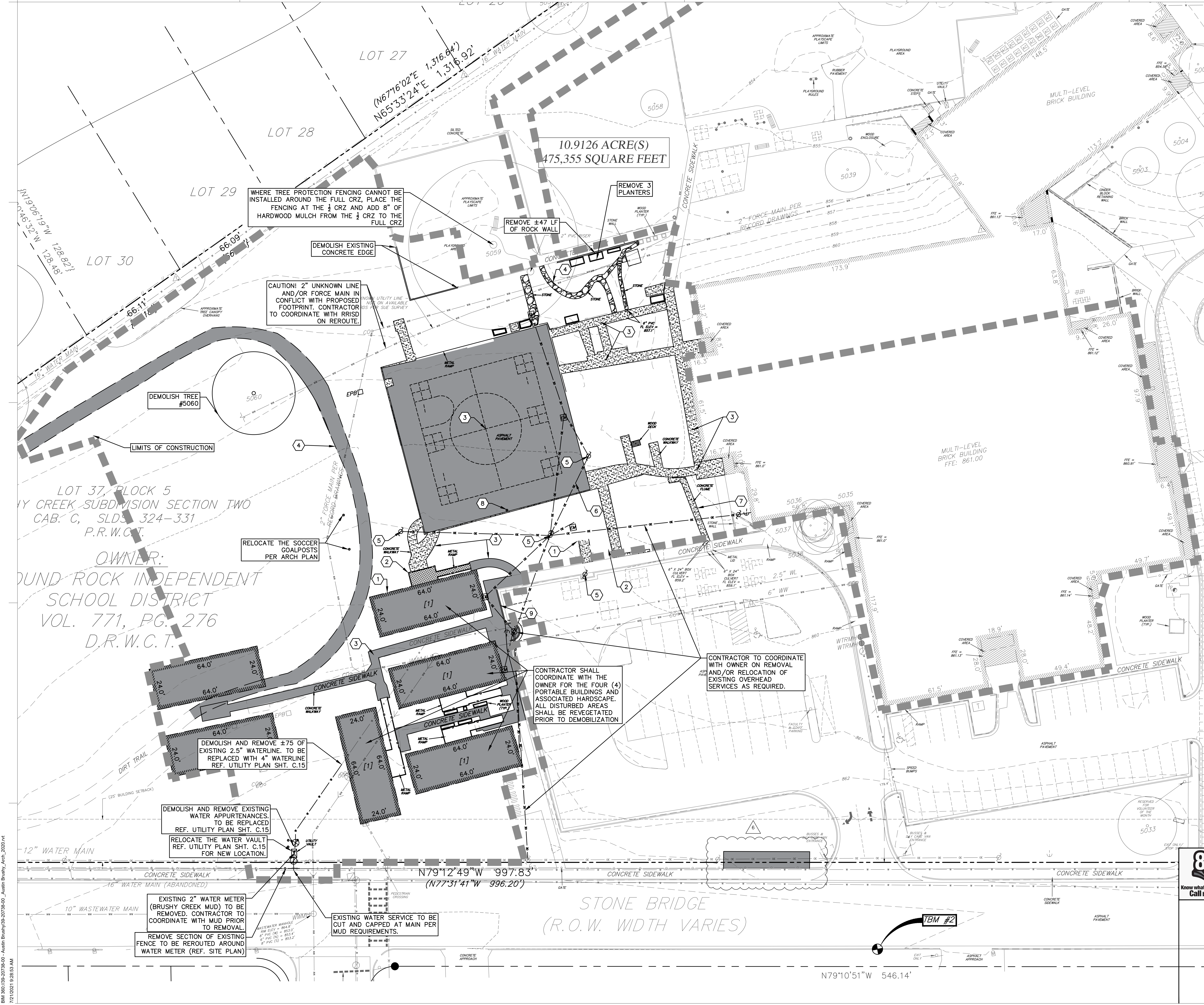
SECTION IV: Preparer Information

40. Name:	Hillary Paris, P.E.		41. Title:	Senior Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(512) 298-3284	106	() -	hparis@garzaemc.com	

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	GarzaEMC	Job Title:	Vice President	
Name (In Print):	Julia Spelhaug		Phone:	(512) 298- 3284
Signature:			Date:	07/17/2024



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
(---)	(---)	PROPERTY LINE / R.O.W. LINE
(---)	(---)	RECORD INFORMATION
(---)	(---)	LIGHT POLE
(---)	(---)	GROUND LIGHT
(---)	(---)	POWER POLE
(---)	(---)	DOWN GUY
(---)	(---)	WATER MANHOLE
(---)	(---)	WATER LINE MARKER
(---)	(---)	UNDERGROUND CABLE MARKER
(---)	(---)	UNDERGROUND GAS LINE MARKER
(---)	(---)	UNDERGROUND TELEPHONE MARKER
(---)	(---)	GAS RISER
(---)	(---)	TELEPHONE RISER
(---)	(---)	SPRINKLER CONTROL BOX
(---)	(---)	SWITCH GEAR & PAD
(---)	(---)	TRANSFORMER (SIZE VARIES)
(---)	(---)	FIRE HYDRANT
(---)	(---)	WATER VALVE
(---)	(---)	WATER METER
(---)	(---)	WATER METER VAULT (SIZE VARIES)
(---)	(---)	CABLE TV RISER
(---)	(---)	ELECTRIC BOX
(---)	(---)	ELECTRIC METER
(---)	(---)	GAS METER
(---)	(---)	GAS VALVE
(---)	(---)	TRAFFIC CONTROL BOX
(---)	(---)	TRAFFIC SIGNAL POST
(---)	(---)	GRATE INLET
(---)	(---)	CURB INLET (SIZE VARIES)
(---)	(---)	GREASE TRAP (SIZE VARIES)
(---)	(---)	ELECTRIC MANHOLE (SIZE VARIES)
(---)	(---)	WASTEWATER MANHOLE (SIZE VARIES)
(---)	(---)	STORMSEWER MANHOLE (SIZE VARIES)
(---)	(---)	TELEPHONE MANHOLE (SIZE VARIES)
(---)	(---)	WASTEWATER CLEANOUT
(---)	(---)	WIRE FENCE
(---)	(---)	WOOD FENCE
(---)	(---)	CHAIN LINK FENCE
(---)	(---)	DUMPSITE
(---)	(---)	CURB & GUTTER
(---)	(---)	EDGE OF PAVEMENT
(---)	(---)	FIRE LANE DESIGNATION
(---)	(---)	HANDICAP ACCESS ROUTE
(---)	(---)	CONCRETE SIDEWALKS
(---)	(---)	WALL
(---)	(---)	WHEELSTOP
(---)	(---)	BOLLARD
(---)	(---)	FINISH FLOOR ELEVATION
(---)	(---)	PARKING COUNT (REGULAR SPACES)
(---)	(---)	PARKING COUNT (HANDICAP SPACES)
(---)	(---)	PARKING COUNT (PARALLEL SPACES)
(---)	(---)	HANDICAP SPACE
(---)	(---)	BIKE PARKING
(---)	(---)	BARRICADE
(---)	(---)	LIMITS OF CONSTRUCTION

GENERAL NOTES:

- CONTRACTOR TO COORDINATE REMOVAL AND RELOCATION OF EXISTING UTILITIES AS REQUIRED.
- THE TREE PROTECTION LOCATIONS SHOWN ON THE EROSION & SEDIMENTATION CONTROL SHEET SHOULD BE IMPLEMENTED ONCE DEMO IS COMPLETE.
- ONLY VISIBLE EVIDENCE OF SURFACE IMPROVEMENTS AND UTILITIES WERE LOCATED BY SURVEY IN THE FIELD AS SHOWN HEREON. EXISTING UTILITIES SHOWN HEREON ARE BASED ON RECORD MAPS AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. ANY AND ALL DISCREPANCIES BETWEEN THE DESIGN PLANS AND THE FIELD CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR RECORD IMMEDIATELY.

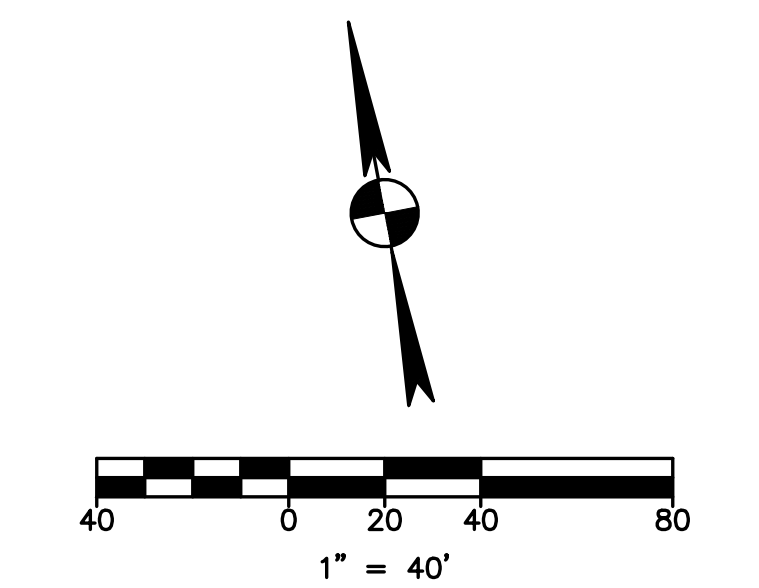
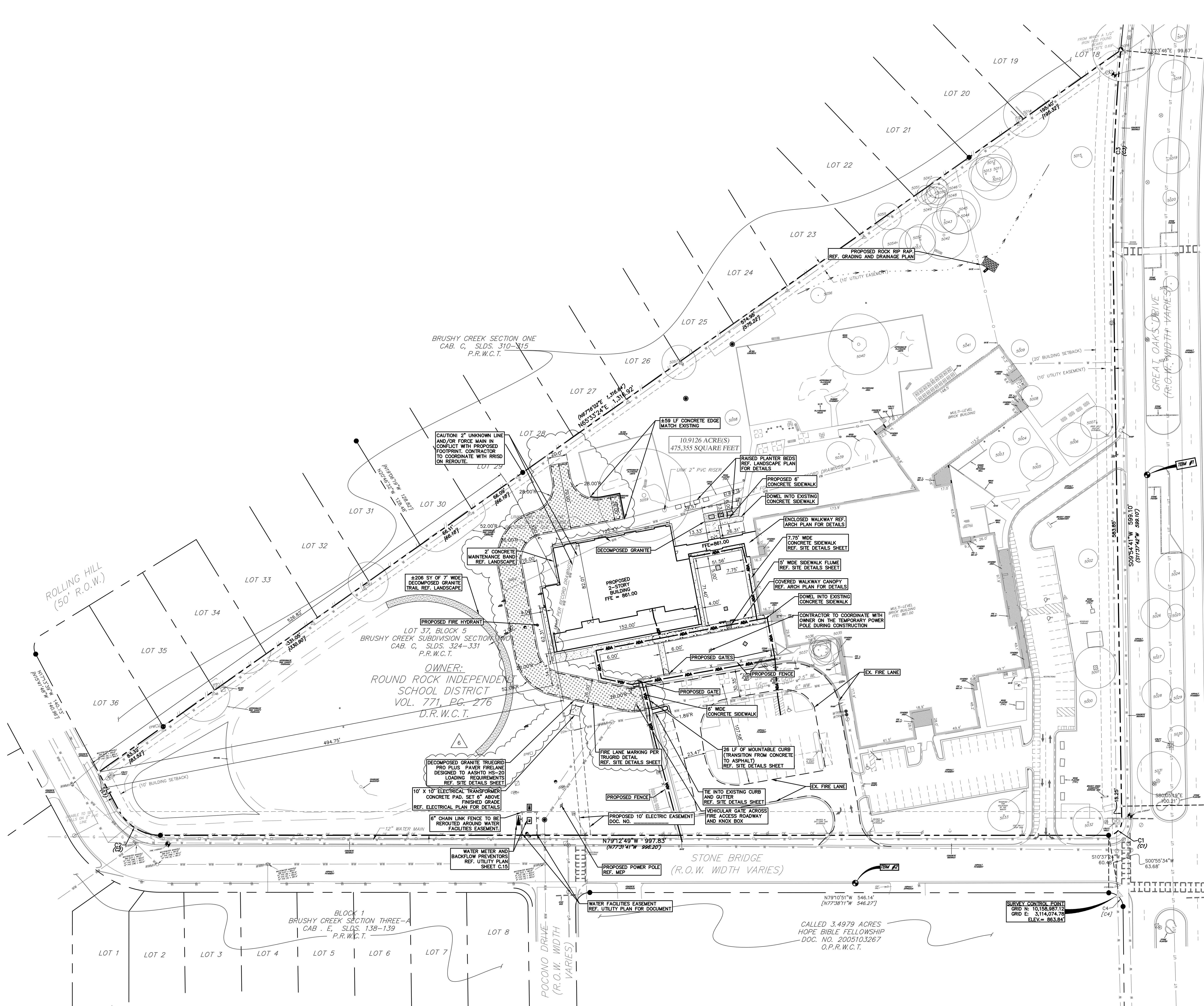
PLAN KEY NOTES	
1	REMOVE EXISTING PORTABLE BUILDING
2	REMOVE ALUMINUM WALKWAY/RAMP
3	REMOVE EXISTING CONCRETE
4	RELOCATE EXISTING GRAVEL PATHWAY
5	REMOVE POWER POLE/DOWN GUYS
6	REMOVE EXISTING OVERHEAD ELECTRIC
7	REMOVE EXISTING CONCRETE FLUME
8	REMOVE BASKETBALL POLE
9	SAWOUT AND REMOVE CURB



THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



7708 Rialto Blvd., Suite 125
Austin, Texas 78735
Tel. (512) 298-3284 Fax (512) 298-2592
TBPE # F-14629
Garza EMC, LLC © Copyright 2024



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
		WATER MANHOLE
		WATER LINE MARKER
		UNDERGROUND CABLE MARKER
		UNDERGROUND GAS LINE MARKER
		UNDERGROUND TELEPHONE MARKER
		GAS RISER
		TELEPHONE RISER
		SPRINKLER CONTROL BOX
		SWITCH GEAR & PAD
		TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
		ELECTRIC BOX
		ELECTRIC METER
		GAS METER
		GAS VALVE
		TRAFFIC CONTROL BOX
		TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
		ELECTRIC MANHOLE (SIZE VARIES)
		WASTEWATER MANHOLE (SIZE VARIES)
		STORMWATER MANHOLE (SIZE VARIES)
		TELEPHONE MANHOLE (SIZE VARIES)
		WASTEWATER CLEANOUT
		WIRE FENCE
		WOOD FENCE
		CHAIN LINK FENCE
		DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		FIRE LANE DESIGNATION
		HANDICAP ACCESS ROUTE
		CONCRETE SIDEWALKS
		WALL
		WHEELSTOP
		BOLLARD
		FINISH FLOOR ELEVATION
		PARKING COUNT (REGULAR SPACES)
		PARKING COUNT (HANDICAP SPACES)
		PARKING COUNT (PARALLEL SPACES)
		HANDICAP SPACE
		BIKE PARKING
		BARRICADE
		LIMITS OF CONSTRUCTION

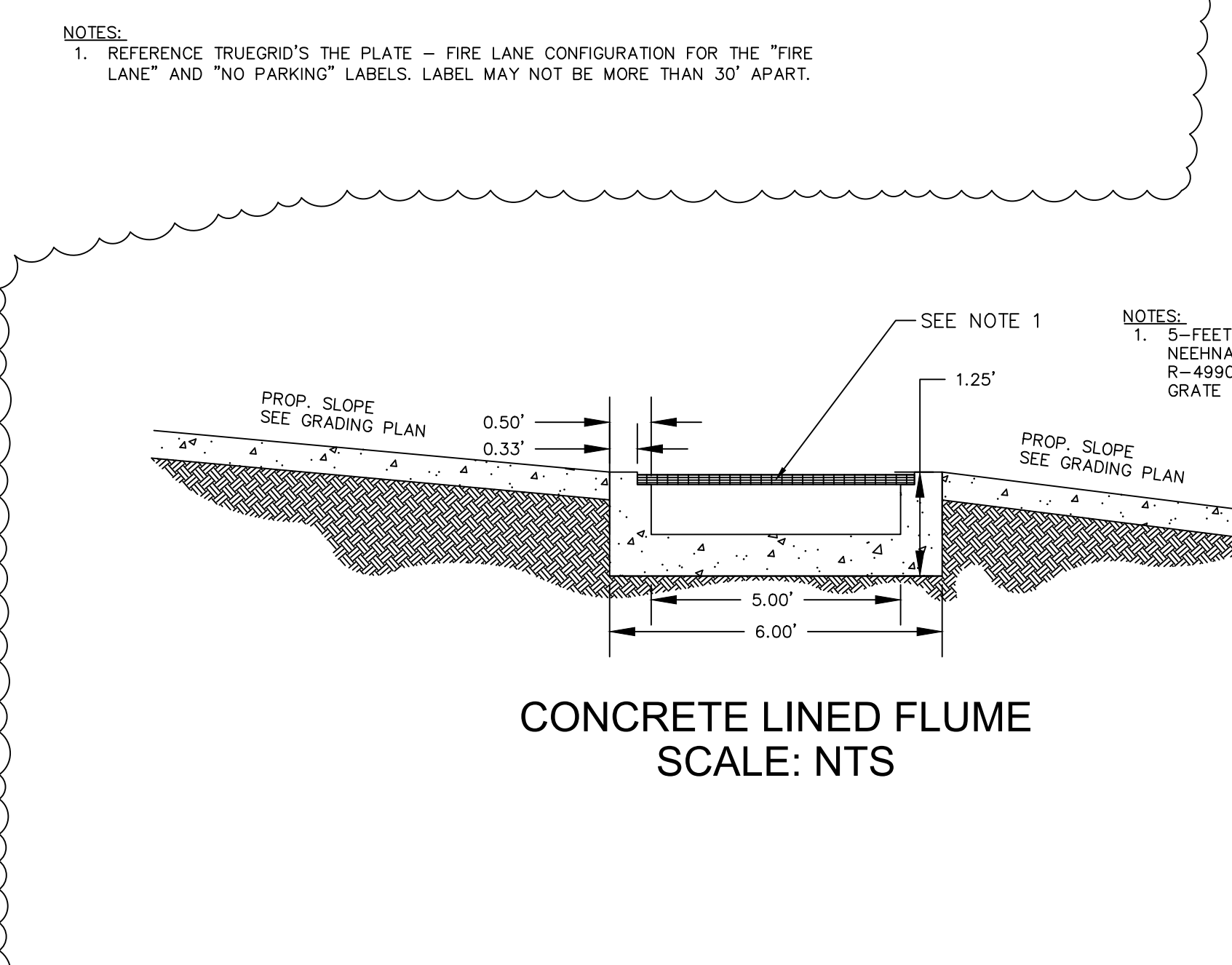
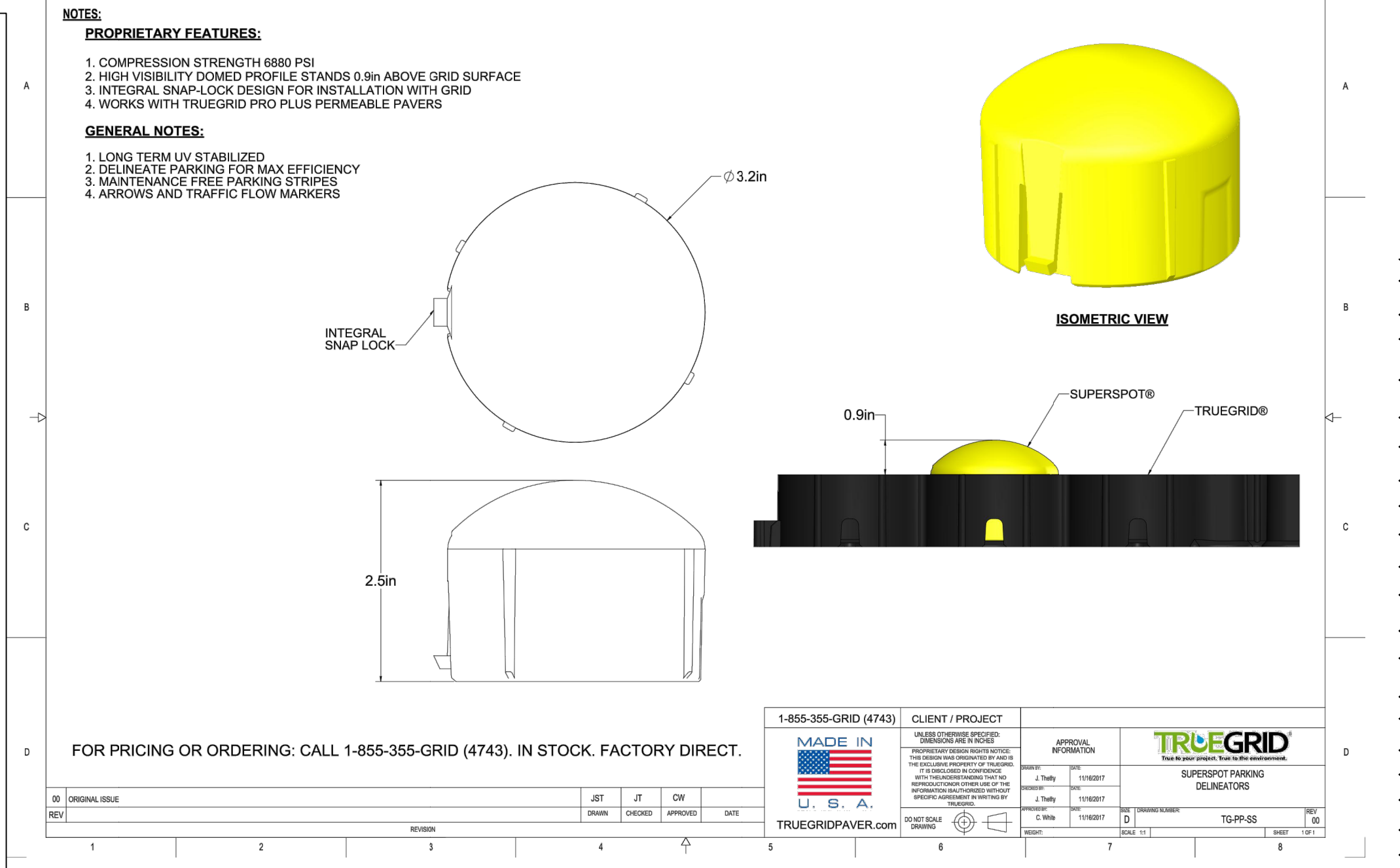
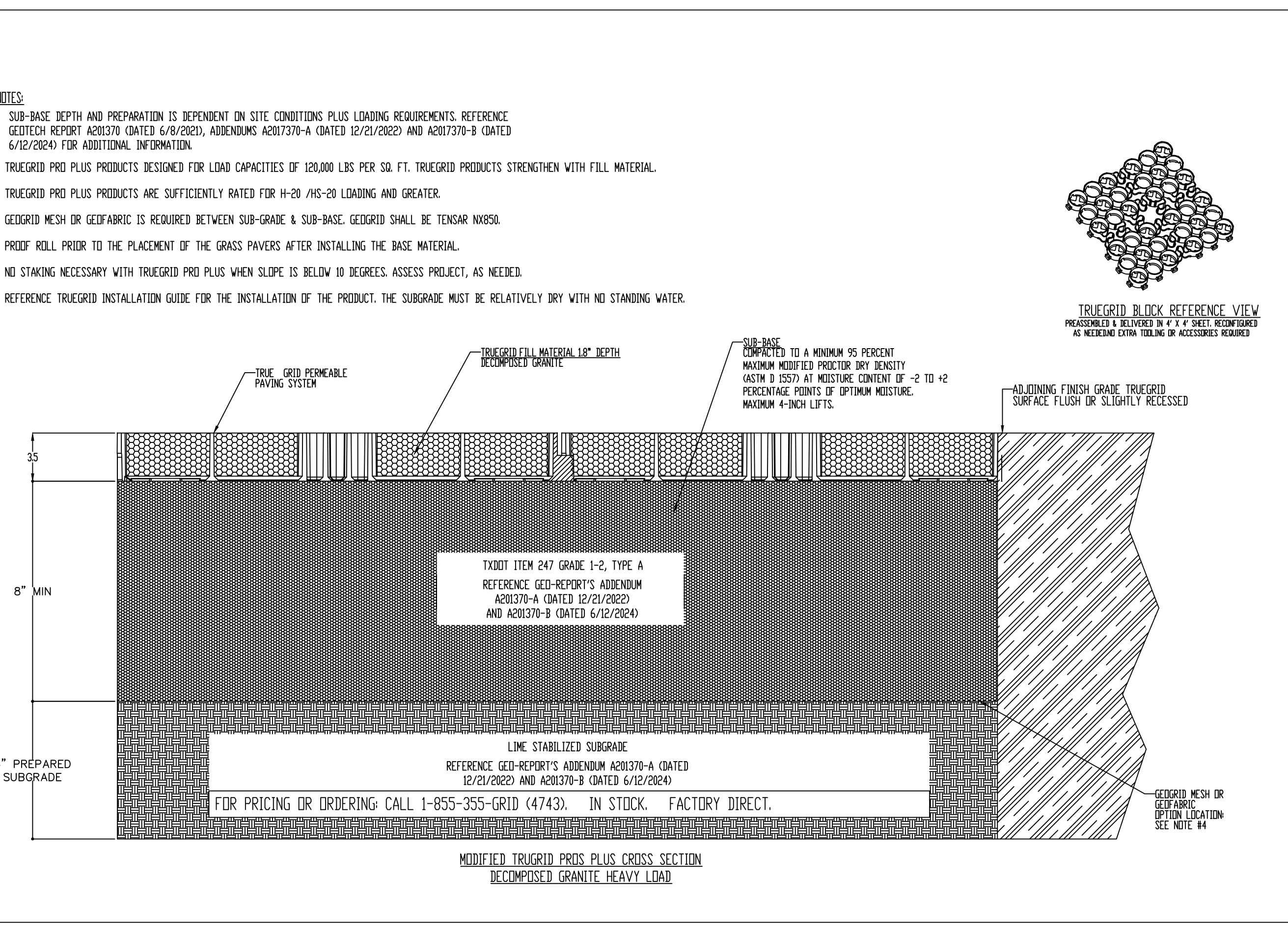
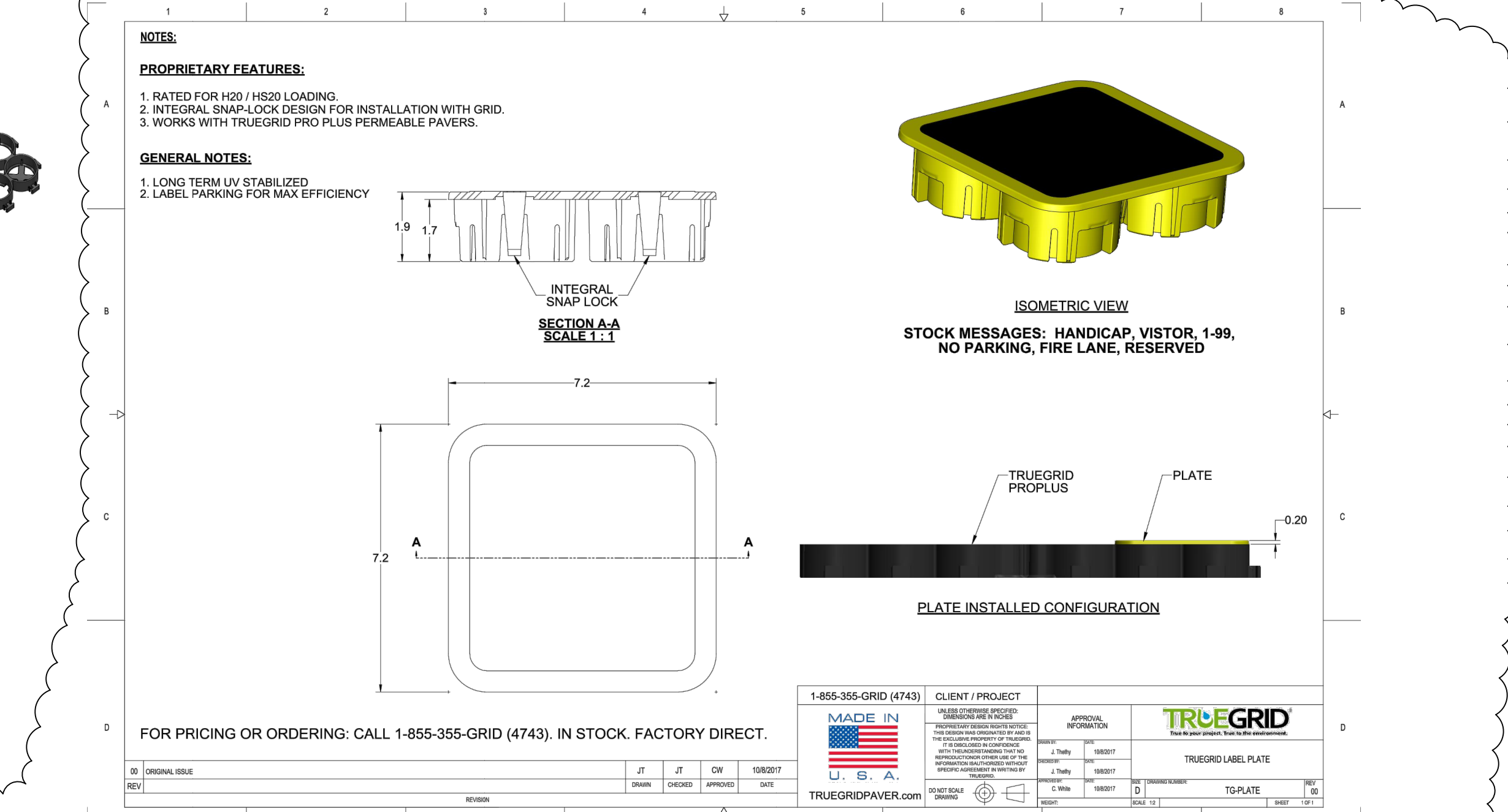
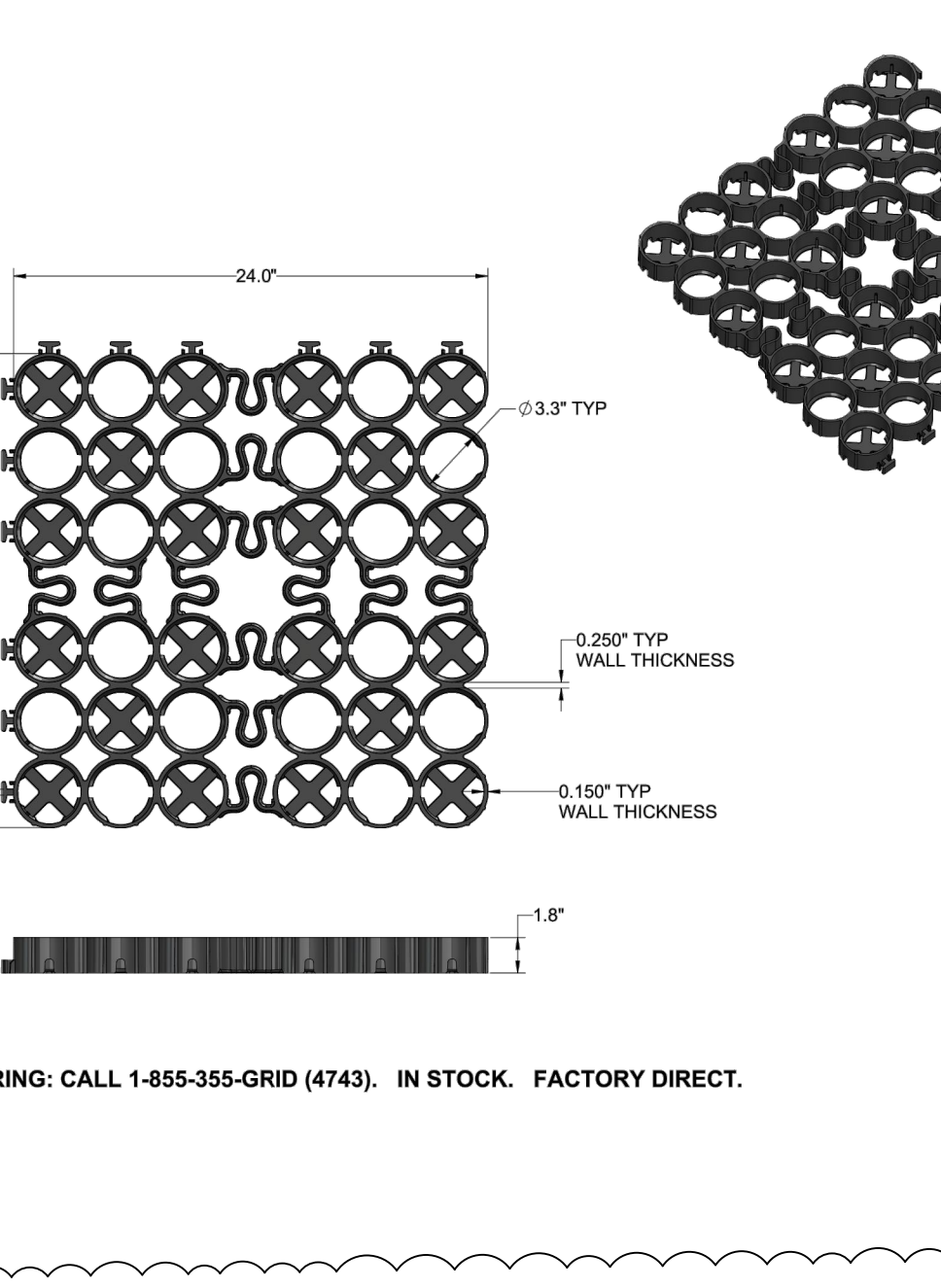
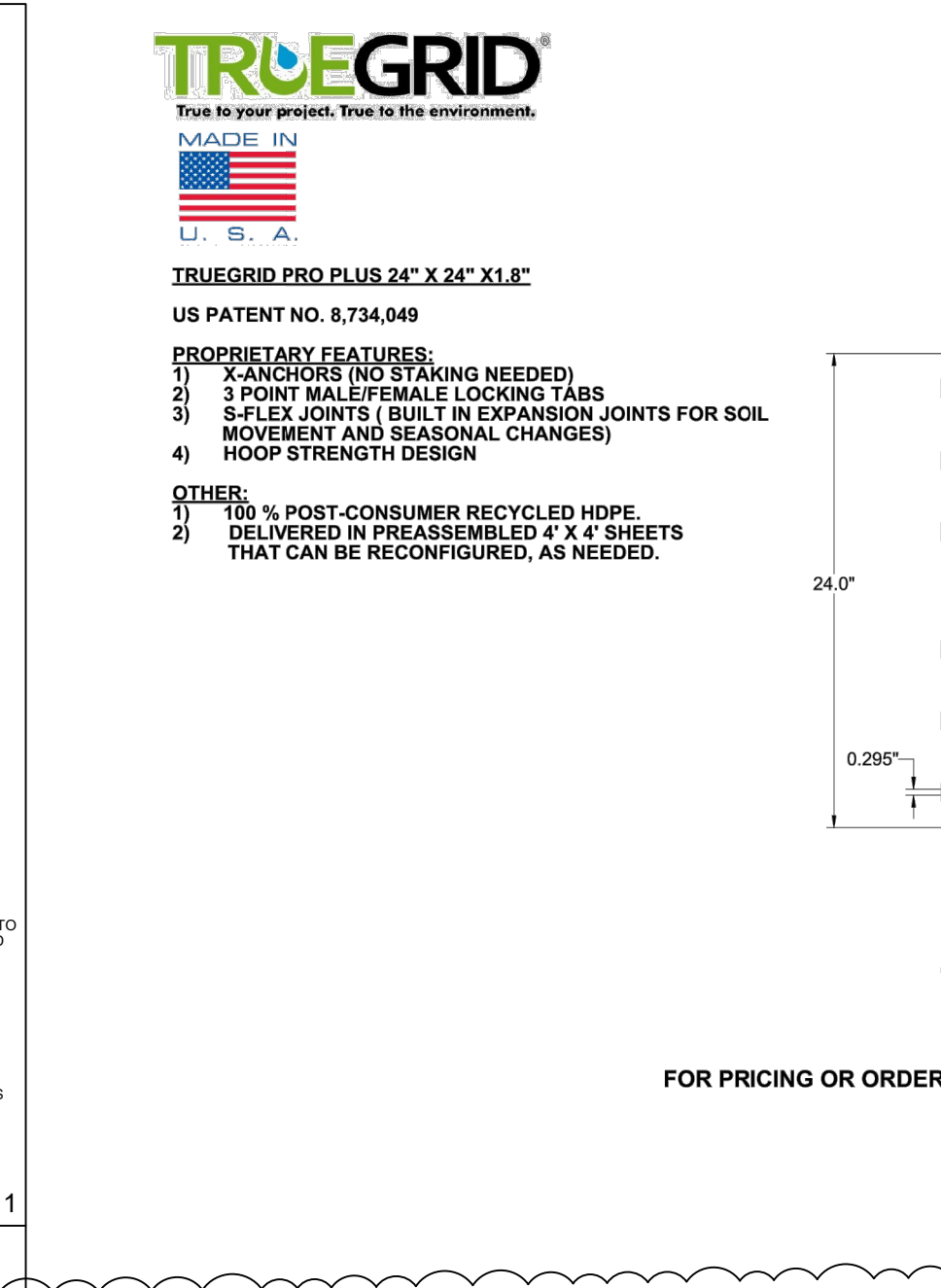
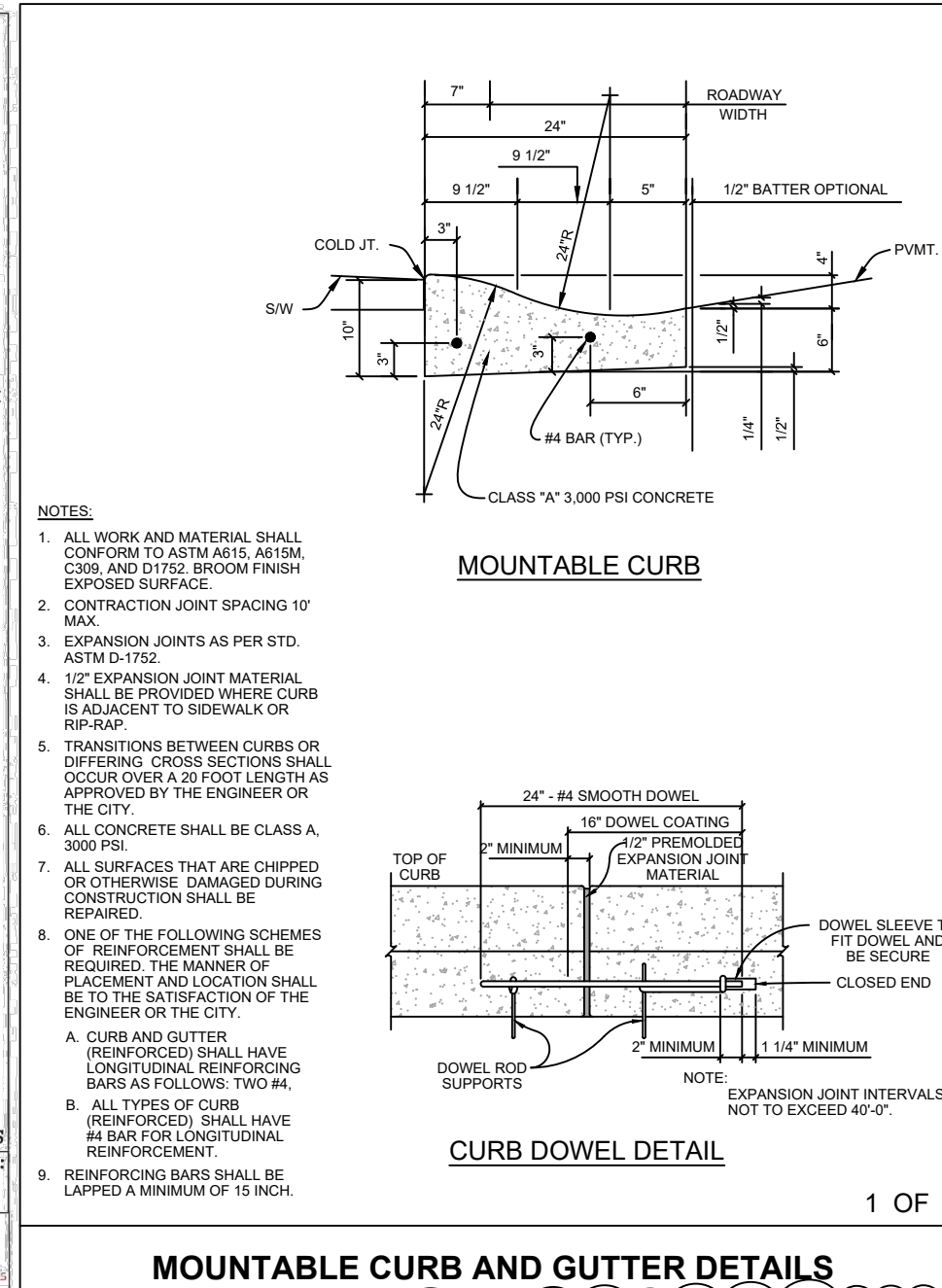
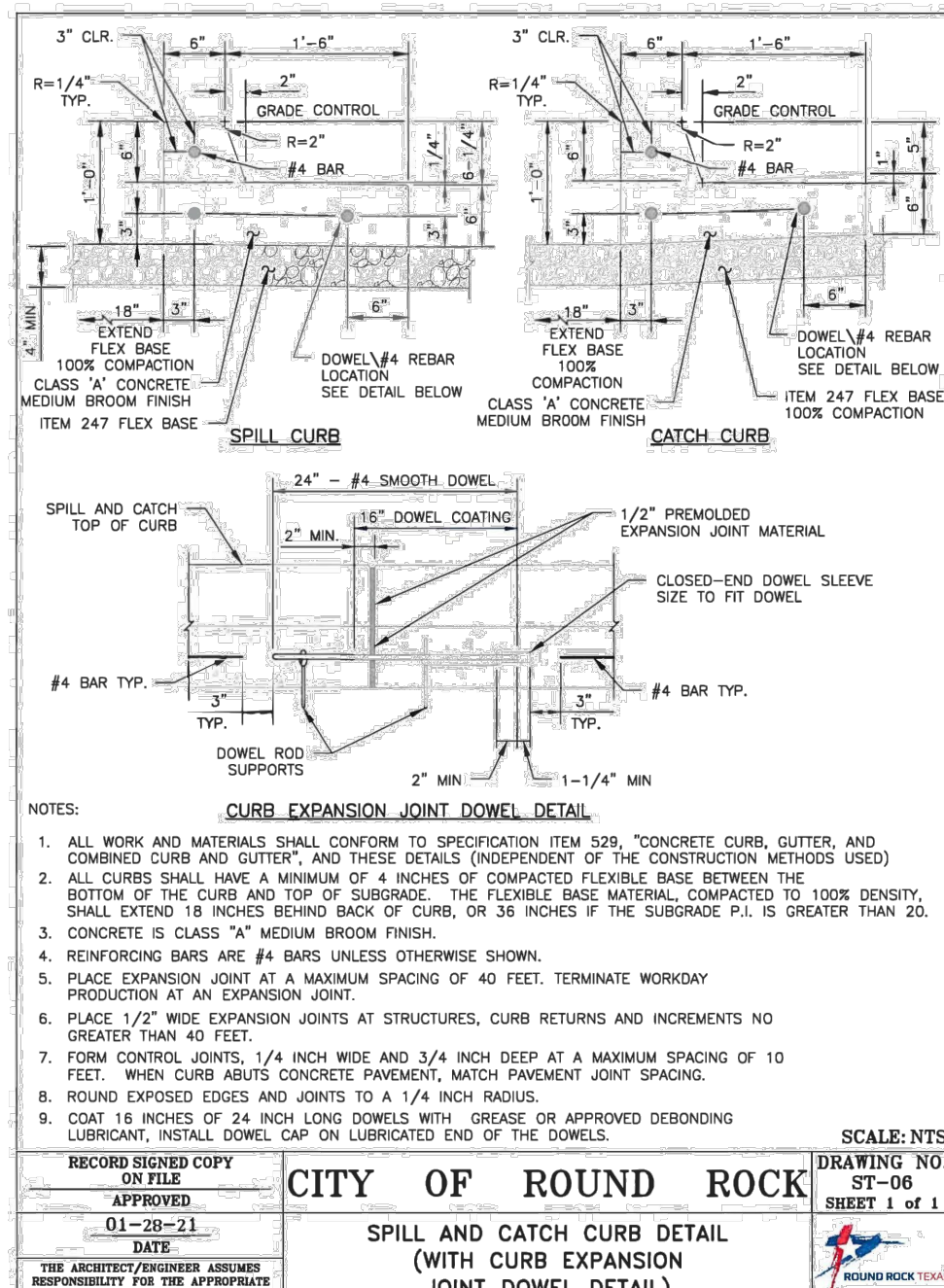
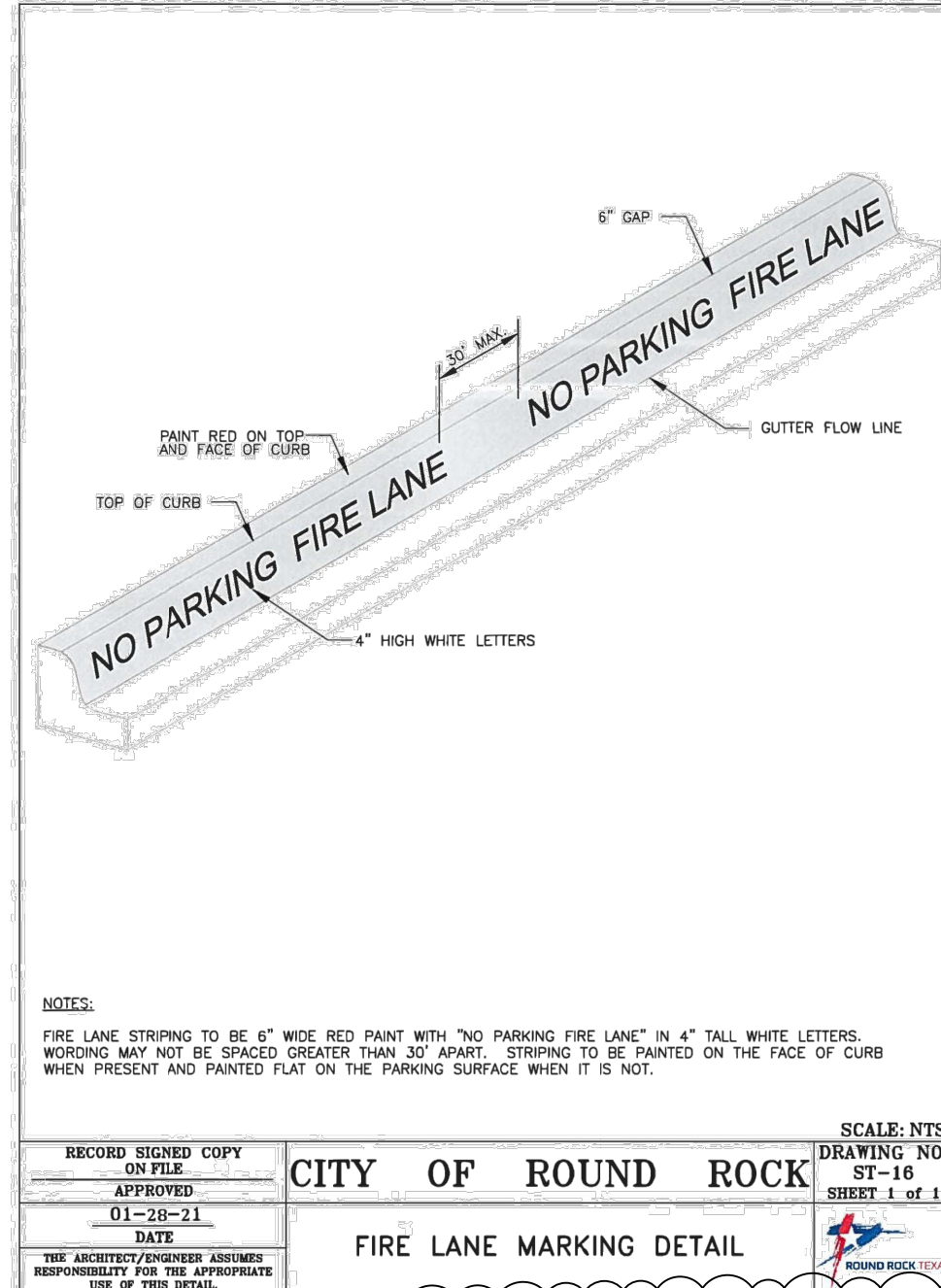
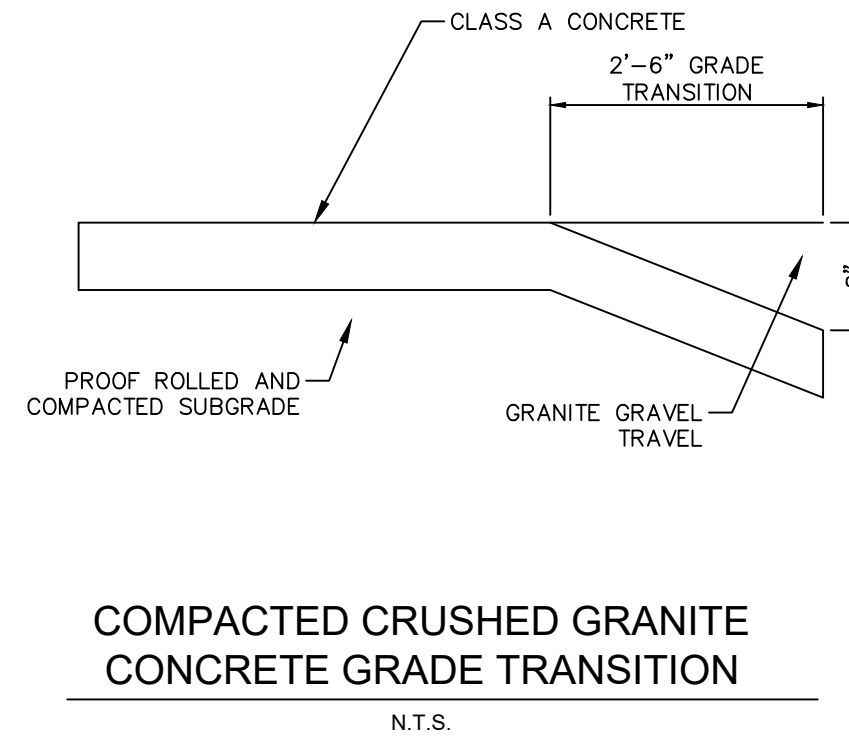
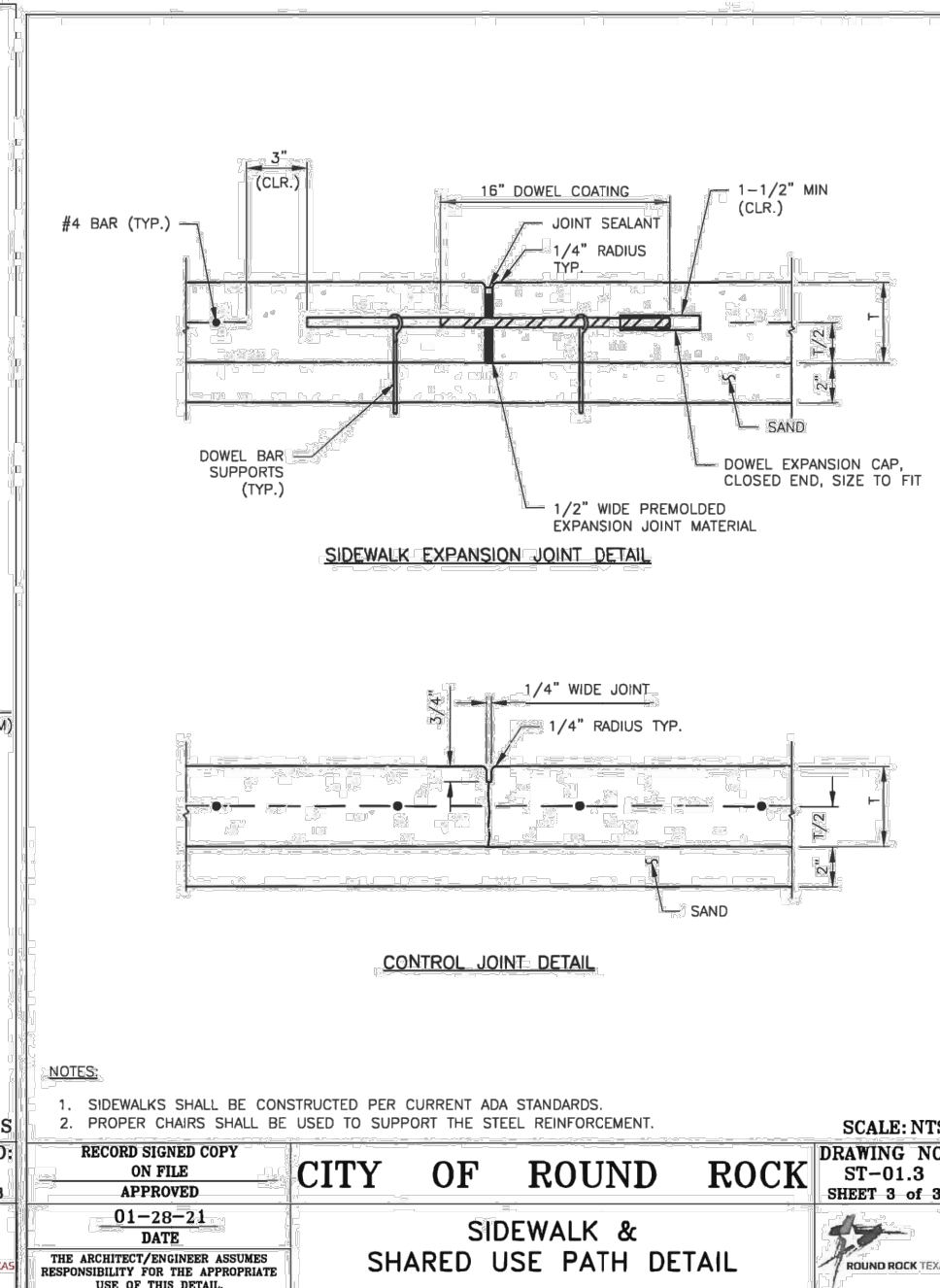
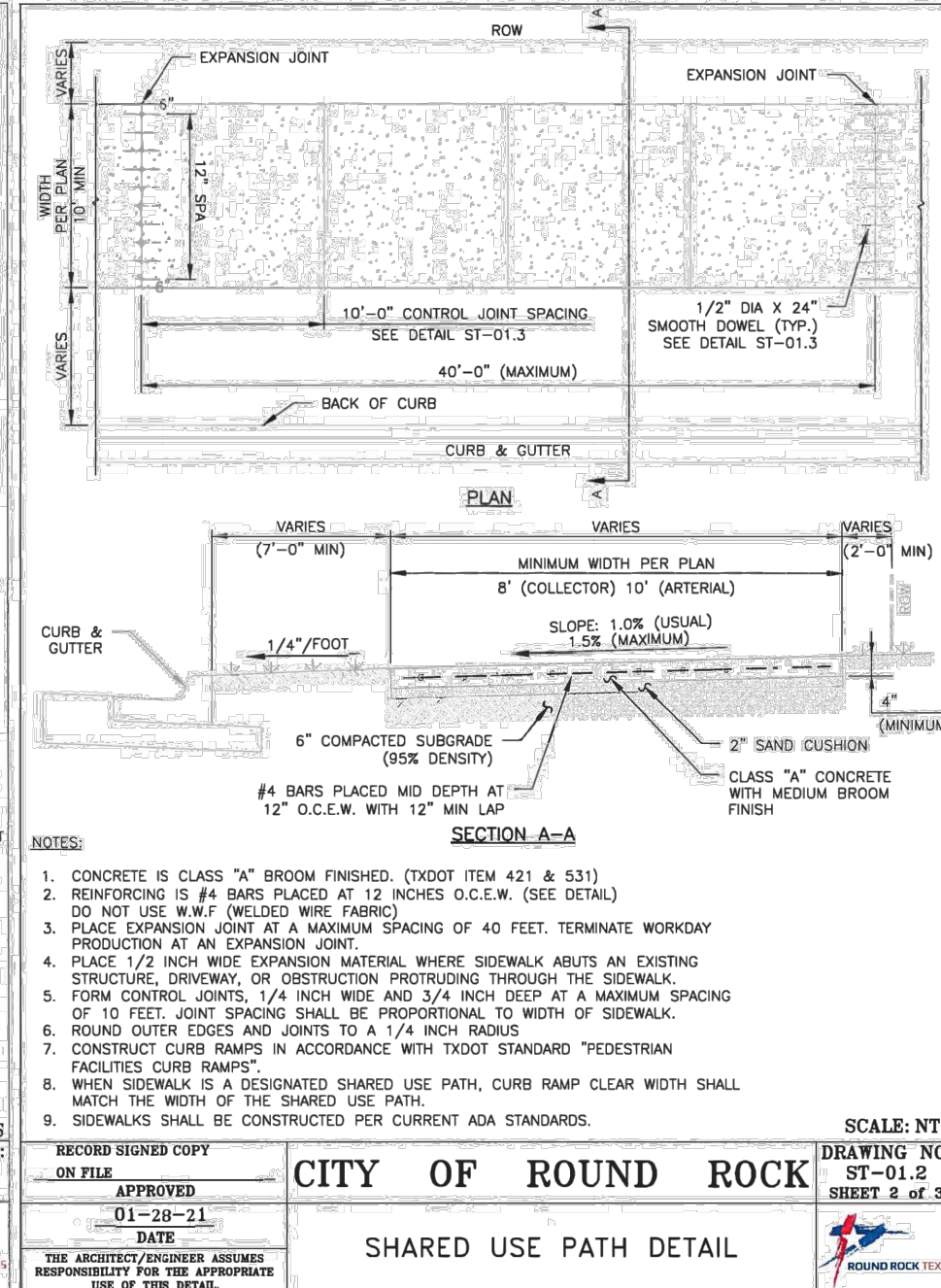
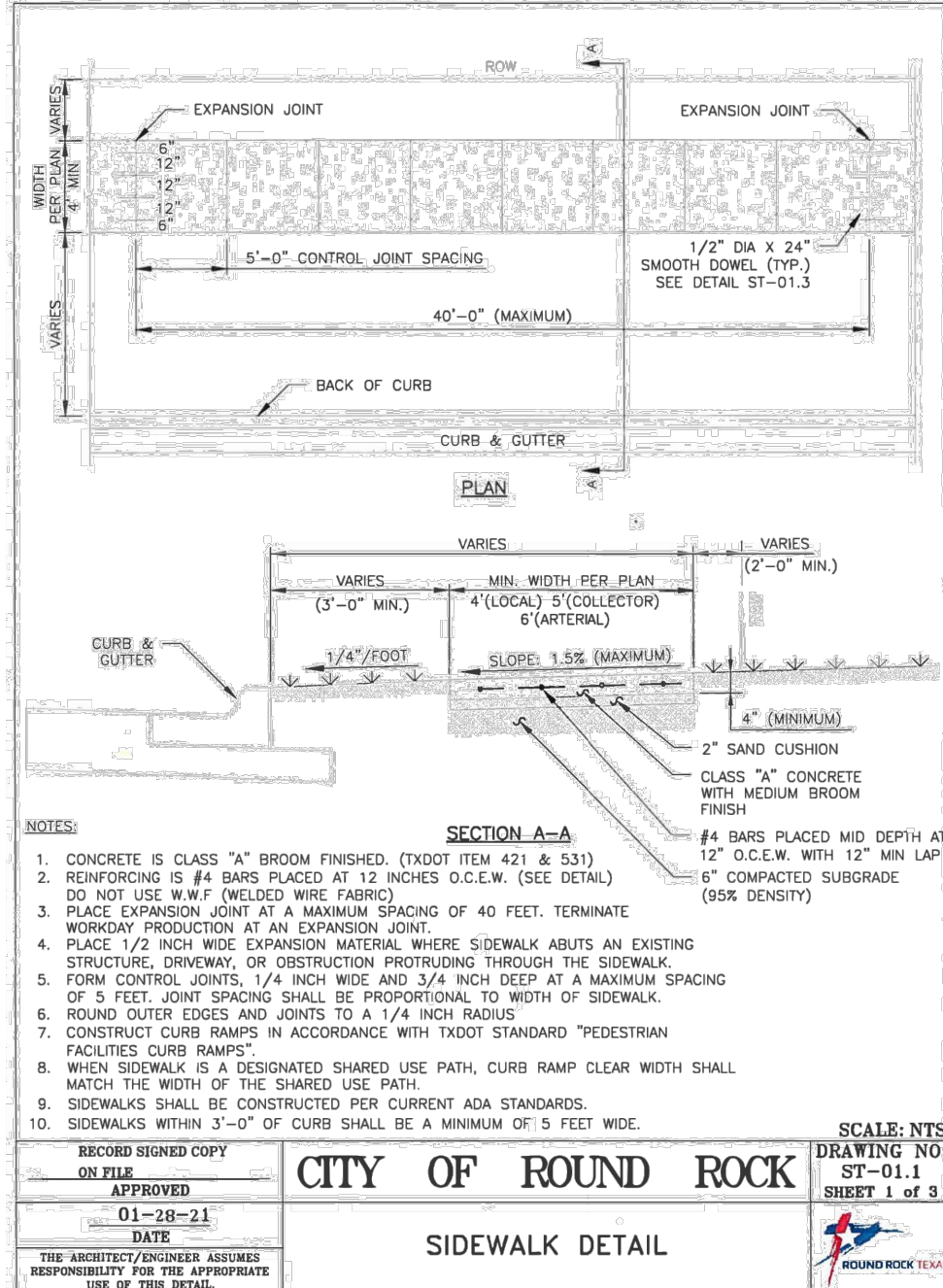
- ACCESSIBILITY NOTES
1. SLOPES ON ACCESSIBLE ROUTES SHALL COMPLY WITH T&S SECTION 402 INCLUDING A MAXIMUM CROSS SLOPE OF 1:48 AND MAXIMUM RUNNING SLOPE OF 1:20.
 2. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH T&S SECTION 405.
 3. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH T&S SECTION 403.
- SITE NOTES
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS AREA MEASURED TO BACK OF CURB.
 2. ALL PARKING CURB RADI ARE 2.5' AS MEASURED TO BACK OF CURB EXCEPT WHERE NOTED OTHERWISE.
 3. TRASH PICKUP SHALL NOT CONCOIDE WITH BUS DROP OFF/PICKUP SCHEDULE.

Know what's below.
Call before you dig.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



garza
emc

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TBPE # F-14629
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	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
	Unpaved	Paved	Pipe Flow	Open Channel			
Length (L)	100		169			1040	
Select Surface Type:	Short-grass prairie		N/A	N/A		Grass, Bermuda	
Manning's (n)	0.150					0.040	
Change in Elevation (ΔE)	2.25		3.85			18.07	
Slope=ΔE/L	0.0225		0.0228			0.0174	
Tc	9.02		1.16			6.69	16.86

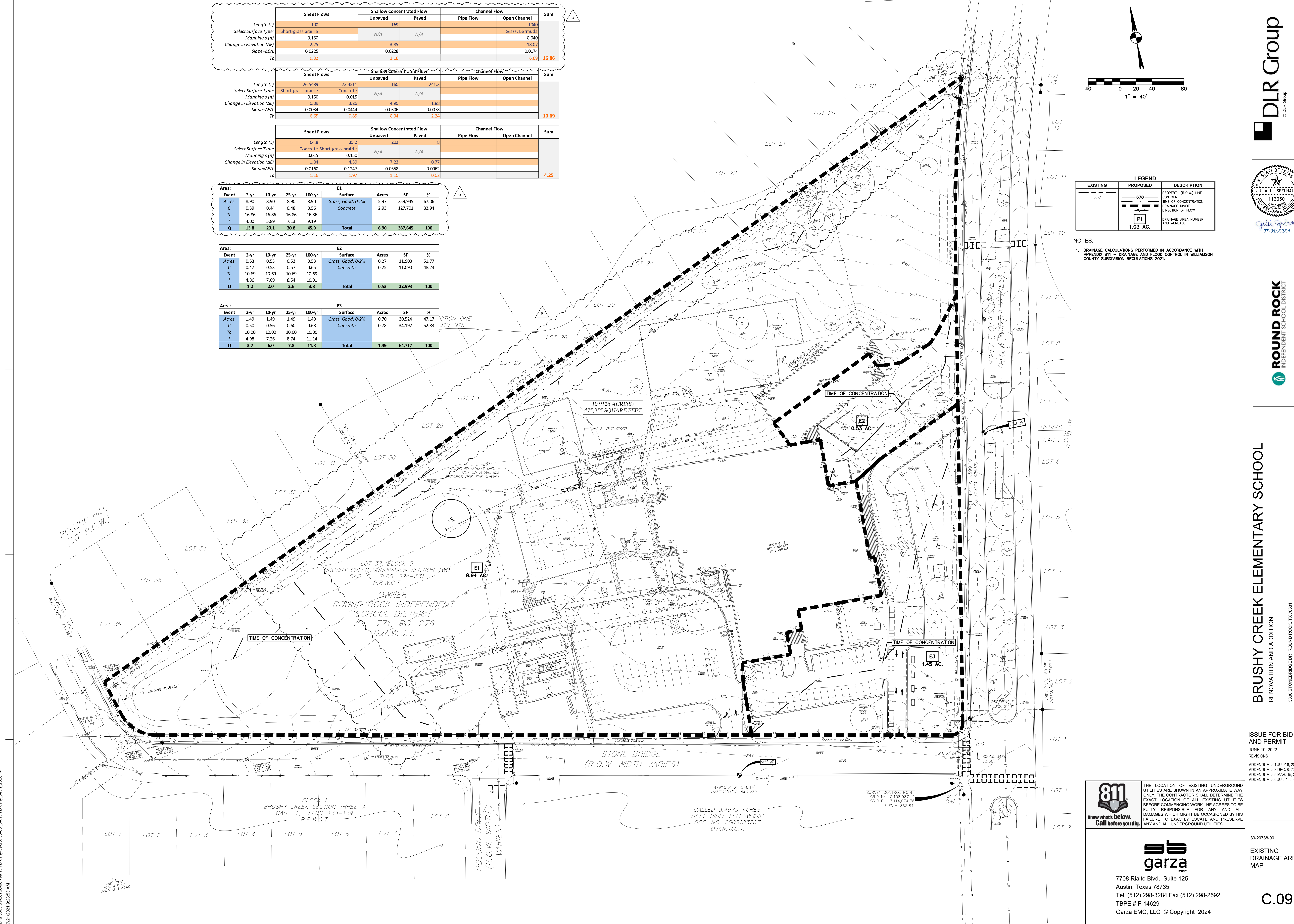
	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
	Unpaved	Paved	Pipe Flow	Open Channel			
Length (L)	26.5489	73.4511	160	241.3			
Select Surface Type:	Short-grass prairie	Concrete	N/A	N/A			
Manning's (n)	0.150	0.015					
Change in Elevation (ΔE)	0.09	3.26	4.90	1.88			
Slope=ΔE/L	0.0034	0.0444	0.0306	0.0078			
Tc	6.65	0.85	0.94	2.24			10.69

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
	Unpaved	Paved	Pipe Flow	Open Channel			
Length (L)	64.8	35.2	202	8			
Select Surface Type:	Concrete	Short-grass prairie	N/A	N/A			
Manning's (n)	0.015	0.150					
Change in Elevation (ΔE)	1.04	4.39	7.23	0.77			
Slope=ΔE/L	0.0160	0.1247	0.0358	0.0962			
Tc	1.16	1.97	1.10	0.02			4.25

Area:		2-yr	10-yr	25-yr	100-yr	E1		Surface	Acres	SF	%
Event								Grass, Good, 0-2%	5.97	259,945	67.06
Acres		8.90	8.90	8.90	8.90			Concrete	2.93	127,701	32.94
C		0.39	0.44	0.48	0.56						
Tc		16.86	16.86	16.86	16.86						
I		4.00	5.89	7.13	9.19						
Q		13.8	23.1	30.8	45.9	Total			8.90	387,645	100

Area:		2-yr	10-yr	25-yr	100-yr	E2		Surface	Acres	SF	%
Event								Grass, Good, 0-2%	0.27	11,903	51.77
Acres		0.53	0.53	0.53	0.53			Concrete	0.25	11,090	48.23
C		0.47	0.53	0.57	0.65						
Tc		10.69	10.69	10.69	10.69						
I		4.86	7.09	8.54	10.91						
Q		1.2	2.0	2.6	3.8	Total			0.53	22,993	100

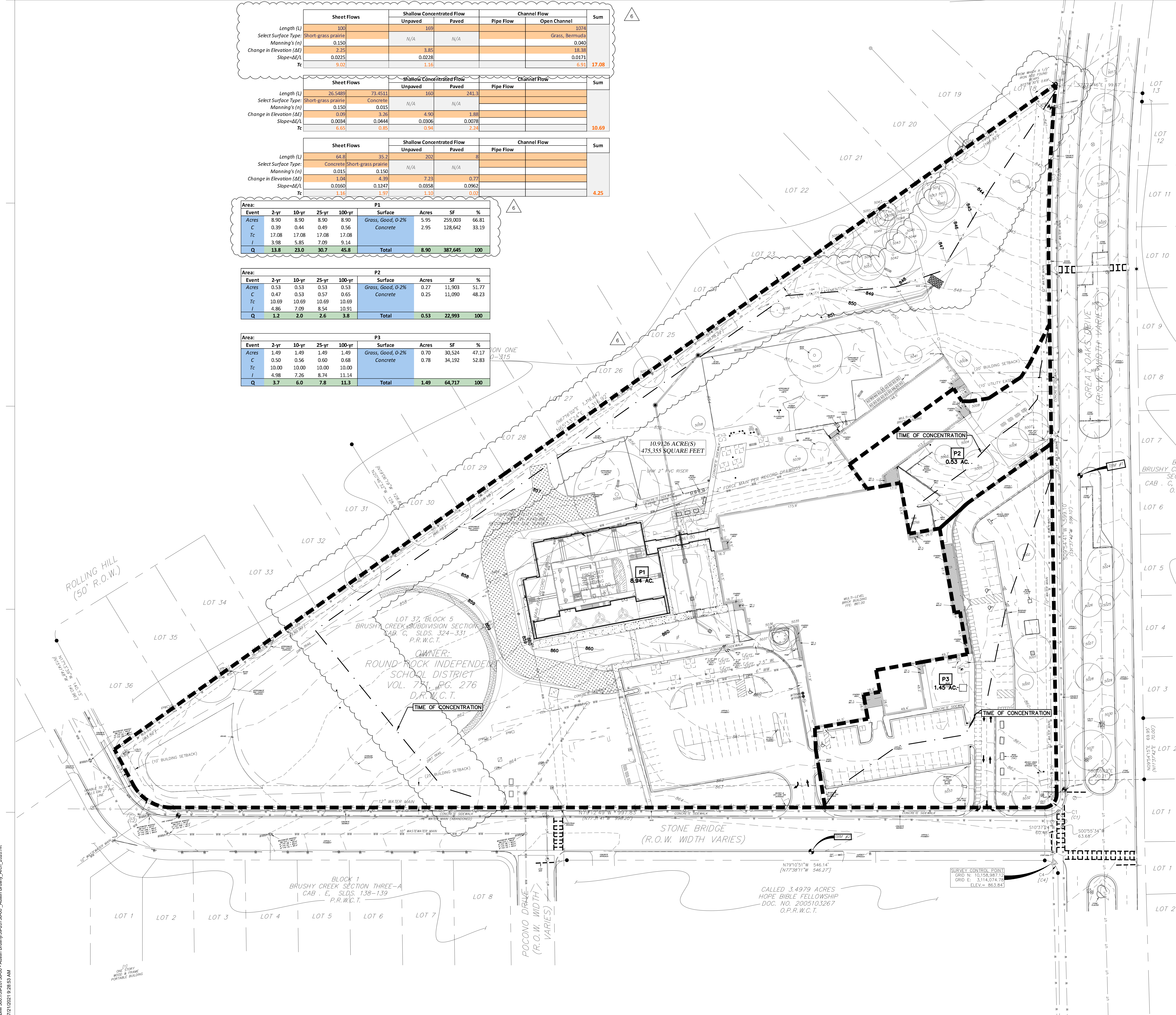
Area:		2-yr	10-yr	25-yr	100-yr	E3		Surface	Acres	SF	%
Event								Grass, Good, 0-2%	0.70	30,524	47.17
Acres		1.49	1.49	1.49	1.49			Concrete	0.78	34,192	52.83
C		0.50	0.56	0.60	0.68						
Tc		10.00	10.00	10.00	10.00						
I		4.98	7.26	8.74	11.14						
Q		3.7	6.0	7.8	11.3	Total			1.49	64,717	100



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
---	---	PROPERTY (R.O.W.) LINE
---	---	CONTOUR
---	---	TIME OF CONCENTRATION
---	---	DRAINAGE DIVIDE
---	---	DIRECTION OF FLOW
---	---	DRAINAGE AREA NUMBER
---	---	AND KOREAGE

NOTES:
1. DRAINAGE CALCULATIONS PERFORMED IN ACCORDANCE WITH
APPENDIX B11 - DRAINAGE AND FLOOD CONTROL IN WILLIAMSON
COUNTY SUBDIVISION REGULATIONS 2021.

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	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
	Unpaved	Paved	Pipe Flow	Open Channel			
Length (L)	100	169					1074
Select Surface Type	Short-grass prairie	N/A	N/A		Grass, Bermuda		
Manning's (n)	0.150				0.040		
Change in Elevation (ΔE)	2.25	3.85			18.38		
Slope=ΔE/L	0.0225	0.0228			0.0171		
Tc	9.02	1.16			6.91		17.08

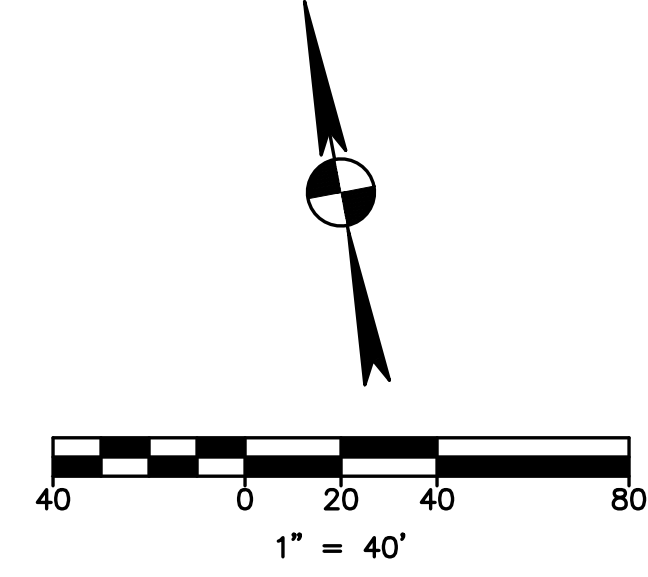
	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
	Unpaved	Paved	Pipe Flow	Open Channel			
Length (L)	26.5489	73.4511	160	241.3			
Select Surface Type	Short-grass prairie	Concrete					
Manning's (n)	0.150	0.015	N/A	N/A			
Change in Elevation (ΔE)	0.09	3.26	4.90	1.88			
Slope=ΔE/L	0.0034	0.0444	0.0306	0.0078			
Tc	6.65	0.85	0.94	2.24			10.69

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
	Unpaved	Paved	Pipe Flow	Open Channel			
Length (L)	64.8	35.2	202	8			
Select Surface Type	Concrete	Short-grass prairie					
Manning's (n)	0.015	0.150	N/A	N/A			
Change in Elevation (ΔE)	1.04	4.39	7.23	0.77			
Slope=ΔE/L	0.0160	0.1247	0.0358	0.0962			
Tc	1.16	1.97	1.10	0.02			4.25

Area:					P1				
Event	2-yr	10-yr	25-yr	100-yr	Surface	Acres	SF	%	
Acres	8.90	8.90	8.90	8.90	Grass, Good, 0-2%	5.95	259,003	66.81	
C	0.39	0.44	0.49	0.56	Concrete	2.95	128,642	33.19	
Tc	17.08	17.08	17.08	17.08					
I	3.98	5.85	7.09	9.14					
Q	13.8	23.0	30.7	45.8	Total	8.90	387,645	100	

Area:					P2				
Event	2-yr	10-yr	25-yr	100-yr	Surface	Acres	SF	%	
Acres	0.53	0.53	0.53	0.53	Grass, Good, 0-2%	0.27	11,903	51.77	
C	0.47	0.53	0.57	0.65	Concrete	0.25	11,090	48.23	
Tc	10.69	10.69	10.69	10.69					
I	4.86	7.09	8.54	10.91					
Q	1.2	2.0	2.6	3.8	Total	0.53	22,993	100	

Area:					P3				
Event	2-yr	10-yr	25-yr	100-yr	Surface	Acres	SF	%	
Acres	1.49	1.49	1.49	1.49	Grass, Good, 0-2%	0.70	30,524	47.17	
C	0.50	0.56	0.60	0.68	Concrete	0.78	34,192	52.83	
Tc	10.00	10.00	10.00	10.00					
I	4.98	7.26	8.74	11.14					
Q	3.7	6.0	7.8	11.3	Total	1.49	64,717	100	



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
---	---	PROPERTY (R.O.W.) LINE
---	---	CONTOUR
---	---	TIME OF CONCENTRATION
---	---	DRAINAGE DIVIDE
---	---	DIRECTION OF FLOW
---	---	DRAINAGE AREA NUMBER
---	---	AND KOREAGE

NOTES:
1. DRAINAGE CALCULATIONS PERFORMED IN ACCORDANCE WITH
APPENDIX B11 - DRAINAGE AND FLOOD CONTROL IN WILLIAMSON
COUNTY SUBDIVISION REGULATIONS 2021.



BRUSHY CREEK ELEMENTARY SCHOOL
RENOVATION AND ADDITION

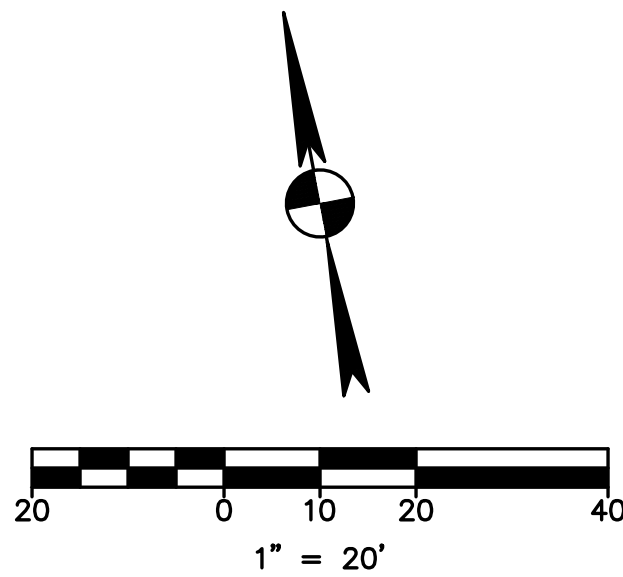
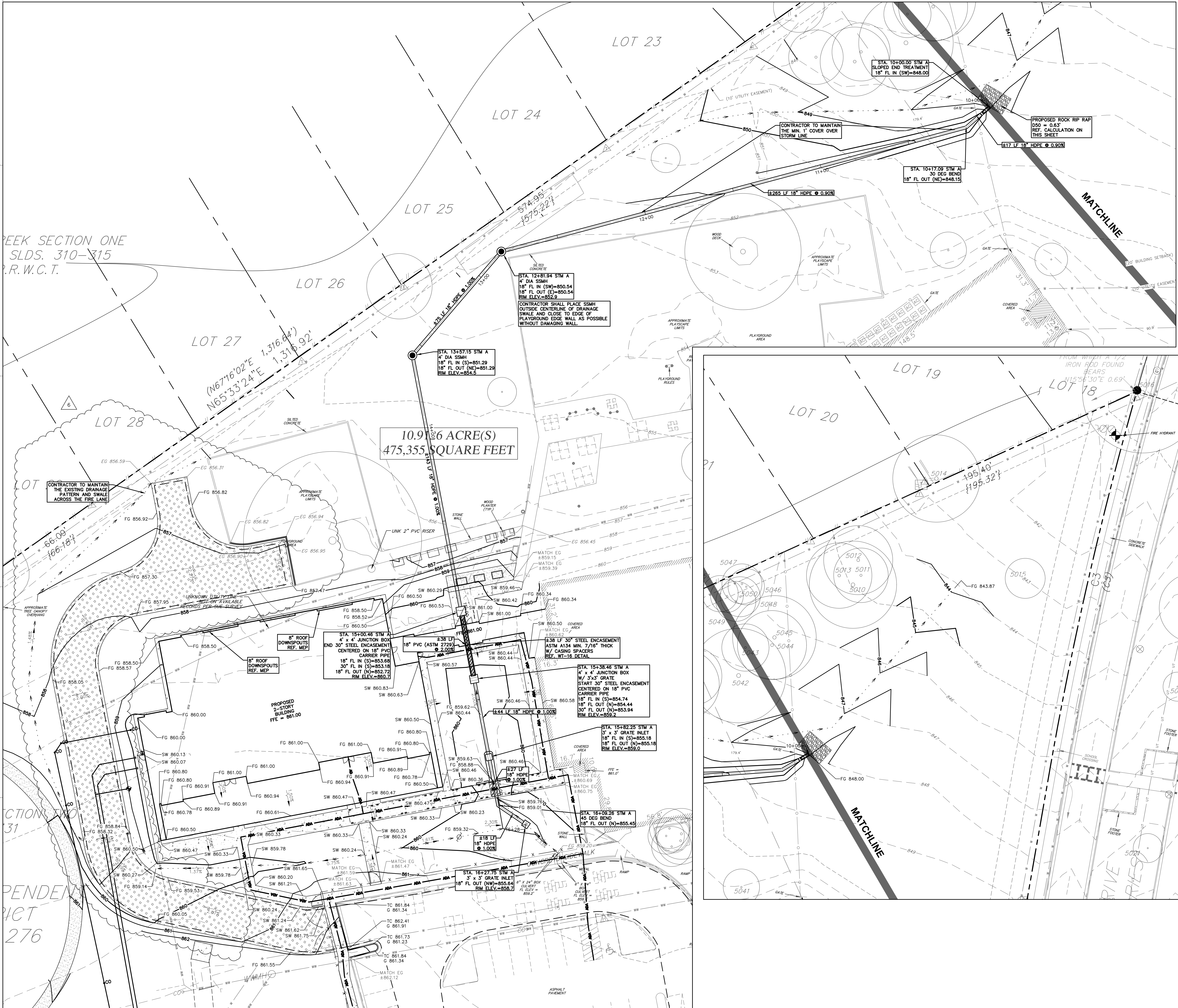
ISSUE FOR BID
AND PERMIT
JUNE 10, 2022
REVISIONS
ADDENDUM #01 JULY 8, 2022
ADDENDUM #03 DEC. 8, 2022
ADDENDUM #05 MAR. 15, 2023
ADDENDUM #06 JUL. 1, 2024

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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TBPE # F-14629
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39-20738-00
PROPOSED
DRAINAGE AREA
MAP

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LEGEND		
EXISTING	PROPOSED	DESCRIPTION
(Dashed line)	(Solid line)	PROPERTY LINE / R.O.W. LINE
(Circle with cross)	(Circle with cross)	RECORD INFORMATION
(Circle with dot)	(Circle with dot)	LIGHT POLE
(Circle with cross)	(Circle with cross)	GROUND LIGHT
(Circle with cross)	(Circle with cross)	POWER POLE
(Circle with cross)	(Circle with cross)	DOWN GUY
(Circle with cross)	(Circle with cross)	WATER MANHOLE
(Circle with cross)	(Circle with cross)	WATER LINE MARKER
(Circle with cross)	(Circle with cross)	UNDERGROUND CABLE MARKER
(Circle with cross)	(Circle with cross)	UNDERGROUND GAS LINE MARKER
(Circle with cross)	(Circle with cross)	UNDERGROUND TELEPHONE MARKER
(Circle with cross)	(Circle with cross)	GAS RISER
(Circle with cross)	(Circle with cross)	TELEPHONE RISER
(Circle with cross)	(Circle with cross)	SPRINKLER CONTROL BOX
(Circle with cross)	(Circle with cross)	SWITCH GEAR & PAD
(Circle with cross)	(Circle with cross)	TRANSFORMER (SIZE VARIES)
(Circle with cross)	(Circle with cross)	FIRE HYDRANT
(Circle with cross)	(Circle with cross)	WATER VALVE
(Circle with cross)	(Circle with cross)	WATER METER
(Circle with cross)	(Circle with cross)	WATER METER VAULT (SIZE VARIES)
(Circle with cross)	(Circle with cross)	CABLE TV RISER
(Circle with cross)	(Circle with cross)	ELECTRIC BOX
(Circle with cross)	(Circle with cross)	ELECTRIC METER
(Circle with cross)	(Circle with cross)	GAS METER
(Circle with cross)	(Circle with cross)	GAS VALVE
(Circle with cross)	(Circle with cross)	TRAFFIC CONTROL BOX
(Circle with cross)	(Circle with cross)	TRAFFIC SIGNAL POST
(Circle with cross)	(Circle with cross)	GRATE INLET
(Circle with cross)	(Circle with cross)	CURB INLET (SIZE VARIES)
(Circle with cross)	(Circle with cross)	ELECTRIC MANHOLE (SIZE VARIES)
(Circle with cross)	(Circle with cross)	WASTEWATER MANHOLE (SIZE VARIES)
(Circle with cross)	(Circle with cross)	STORMSEWER MANHOLE (SIZE VARIES)
(Circle with cross)	(Circle with cross)	TELEPHONE MANHOLE (SIZE VARIES)
(Circle with cross)	(Circle with cross)	WASTEWATER CLEANOUT
(Circle with cross)	(Circle with cross)	WIRE FENCE
(Circle with cross)	(Circle with cross)	WOOD FENCE
(Circle with cross)	(Circle with cross)	CHAIN LINK FENCE
(Circle with cross)	(Circle with cross)	DUMPER
(Circle with cross)	(Circle with cross)	CURB & GUTTER
(Circle with cross)	(Circle with cross)	EDGE OF PAVEMENT
(Circle with cross)	(Circle with cross)	CONCRETE SIDEWALKS
(Circle with cross)	(Circle with cross)	WALL
(Circle with cross)	(Circle with cross)	LIMITS OF CONSTRUCTION
(Circle with cross)	(Circle with cross)	CONTOUR
(Circle with cross)	(Circle with cross)	STORMSEWER LINE
(Circle with cross)	(Circle with cross)	WATER LINE
(Circle with cross)	(Circle with cross)	WASTEWATER LINE
(Circle with cross)	(Circle with cross)	GAS LINE
(Circle with cross)	(Circle with cross)	UNDERGROUND ELECTRIC LINE
(Circle with cross)	(Circle with cross)	OVERHEAD ELECTRIC LINE
(Circle with cross)	(Circle with cross)	UNDERGROUND TELEPHONE LINE
(Circle with cross)	(Circle with cross)	UNDERGROUND CABLE AND INTERNET
(Circle with cross)	(Circle with cross)	UNDERGROUND TELECOMMUNICATIONS
(Circle with cross)	(Circle with cross)	HANDICAP ACCESS ROUTE
(Circle with cross)	(Circle with cross)	SILO
(Circle with cross)	(Circle with cross)	WHEELSTOP
(Circle with cross)	(Circle with cross)	ROLLUP
(Circle with cross)	(Circle with cross)	FINISH FLOOR ELEVATION
(Circle with cross)	(Circle with cross)	HANDICAP SPACE
(Circle with cross)	(Circle with cross)	BIKE PARKING
(Circle with cross)	(Circle with cross)	SHADE
(Circle with cross)	(Circle with cross)	DIRECTION OF FLOW
(Circle with cross)	(Circle with cross)	TREE TO BE SAVED
(Circle with cross)	(Circle with cross)	HERITAGE / MATURE TREE
(Circle with cross)	(Circle with cross)	HIGH POINT
(Circle with cross)	(Circle with cross)	TOP OF WALL
(Circle with cross)	(Circle with cross)	TOP OF CURB
(Circle with cross)	(Circle with cross)	GUTTER
(Circle with cross)	(Circle with cross)	SPOT ELEVATION

ACCESSIBILITY NOTES

1. SLOPES ON ACCESSIBLE ROUTES SHALL COMPLY WITH TAS SECTION 402 INCLUDING A MAXIMUM CROSS SLOPE OF 1:48 AND MAXIMUM RUNNING SLOPE OF 1:20.
2. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH TAS SECTION 405.
3. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH TAS SECTION 403.
4. ACCESSIBLE PARKING SPACES MUST BE LOCATED ON A SURFACE WITH A SLOPE NOT EXCEEDING 1:50. [ANSI 502.5]

STORM SEWER NOTES

1. OWNER ACKNOWLEDGES AND APPROVES THE PROPOSED STORM SEWER BETWEEN STA 15+00.46 STM A AND STA 15+38.46 STA A, SHOWN UNDER THE EXISTING BUILDING WALKWAY. THE STORM PIPE MATERIAL MEETS PLUMBING CODE REQUIREMENTS FOR PLACEMENT UNDER THE BUILDING FOUNDATION, AND A SLEEVE IS PROPOSED FOR ADDITIONAL PROTECTION AND MAINTENANCE ACCESS TO STORM SEWER PIPING.

PROPOSED SWALE CAPACITY

Uniform Flow	Gradually Varied Flow	Messages
Solve For: Discharge	Determine Rip-Rap Size	
Bureau of Reclamation*		
$D_{50} = 0.105V^{0.84}$		
STORM		
V = 7.31 fpm		
Rip Rap Dia., 50% of Rip Rap shall be smaller than D_{50}		
Roughness Coefficient: 0.030	Rip Rap Dia., ft	in
Channel Slope: 3.370 %	D_{50}	0.63 7.59
Elevation: 848.00 ft	Rip Rap to be graded in size between 0.2 D_{50} and 2.0 D_{50}	
Elevation Range: 847.4 to 848.0 ft	0.2 D_{50}	0.13 1.52
Discharge: 51.75 cfs	2.0 D_{50}	1.26 15.17
1. ACTUAL SWALE PEAK FLOW (CFS) = 37.4 CFS.		

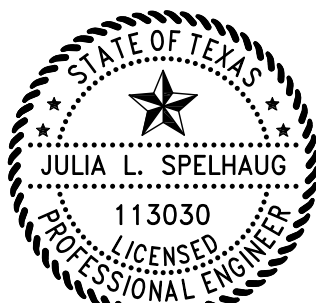
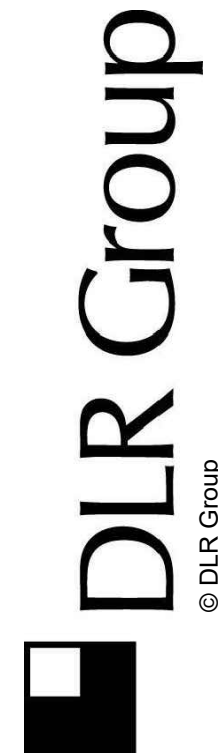
*Hydraulic Design of Stilling Basins and Energy Dissipators, Engineering Monograph No. 25, (1983)



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GRADING AND
DRAINAGE PLAN

C.13