Water Pollution Abatement Plan Table of Contents

Attachment F - Construction Plans
Attachment G - Inspection, Maintenance, Repair and Retrofit Plan
Attachment H - Pilot-Scale Field Testing Plan (if proposed)
Attachment I -Measures for Minimizing Surface Stream Contamination

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

<insert 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: Castle Garden Event Center						**2. Regulated Entity No.:**			
3. Customer Name: 3904 OAK RIDGE DR LLC						**4. Customer No.:**			
5. Project Type: **(Please circle/check one)**	New X		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP X	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential X			**8. Site (acres):** 2.598			
9. Application Fee:	$4,000		**10. Permanent BMP(s):**			Stormwater sediment pond, permeable pavement, cistern, berm/diverter			
11. SCS (Linear Ft.):			**12. AST/UST (No. Tanks):**			0			
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.)	___	___	_1_
Region (1 req.)	___	___	_1_
County(ies)	___	___	_1_
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville _1_Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	___	___	___	___
Region (1 req.)	___	___	___	___	___
County(ies)	___	___	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	___Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge ___New Braunfels ___Schertz	NA	___San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Paul H. Martin, P.E.
Print Name of Customer/Authorized Agent
Signature of Customer/Authorized Agent Date 10/15/2025

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):	

Insert 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.

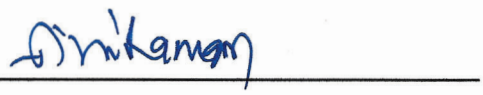
Signature

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: Sriramam Anusuri

Date: 10/1/2025

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Castle Garden Event Center
2. County: Williamson
3. Stream Basin: Brushy Creek
4. Groundwater Conservation District (If applicable): _____
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☐ Transition Zone

6. Plan Type:

   ☒ WPAP
   ☐ SCS
   ☐ Modification
   ☐ AST
   ☐ UST
   ☐ Exception Request

7. Customer (Applicant):
   Contact Person: Sriramam Anusuri
   Entity: 3904 OAK RIDGE DR LLC

8. Mailing Address: 3904 Oak Ridge Dr
   City, State: Round Rock, TX Zip: 78681
   Telephone: 510-282-0891 FAX: _____
   Email Address: sanusuri@gmail.com

9. Agent/Representative (If any):
   Contact Person: Karen Miller
   Entity: Bullock, Bennett, & Assoc
   Mailing Address: 165 N. Lampasas
   City, State: Bertram, TX Zip: 78605
   Telephone: 512-468-7325 FAX: _____
   Email Address: kmiller@bbaengineering.com

10. 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, TX.
   ☐ 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 project is located at 3904 Oak Ridge Dr, Round Rock, TX 78681

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

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

   ☒ Project site boundaries.
   ☒ USGS Quadrangle Name(s).
   ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
   ☒ Drainage path from the project site to the boundary of the Recharge Zone.

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

   ☐ Survey staking will be completed by this date: **

14. ☒ **Attachment C – Project Description**. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

- ☒ Area of the site
- ☐ Offsite areas
- ☒ Impervious cover
- ☒ Permanent BMP(s)
- ☒ Proposed site use
- ☒ Site history
- ☒ Previous development
- ☒ Area(s) to be demolished

15. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☒ Existing residential site
- ☒ Existing paved and/or unpaved roads
- ☐ Undeveloped (Cleared)
- ☐ Undeveloped (Undisturbed/Uncleared)
- ☐ Other: _____

Prohibited Activities

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

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

(2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;

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

(4) The use of sewage holding tanks as parts of organized collection systems; and

(5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).

(6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

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

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

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

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

Administrative Information

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

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

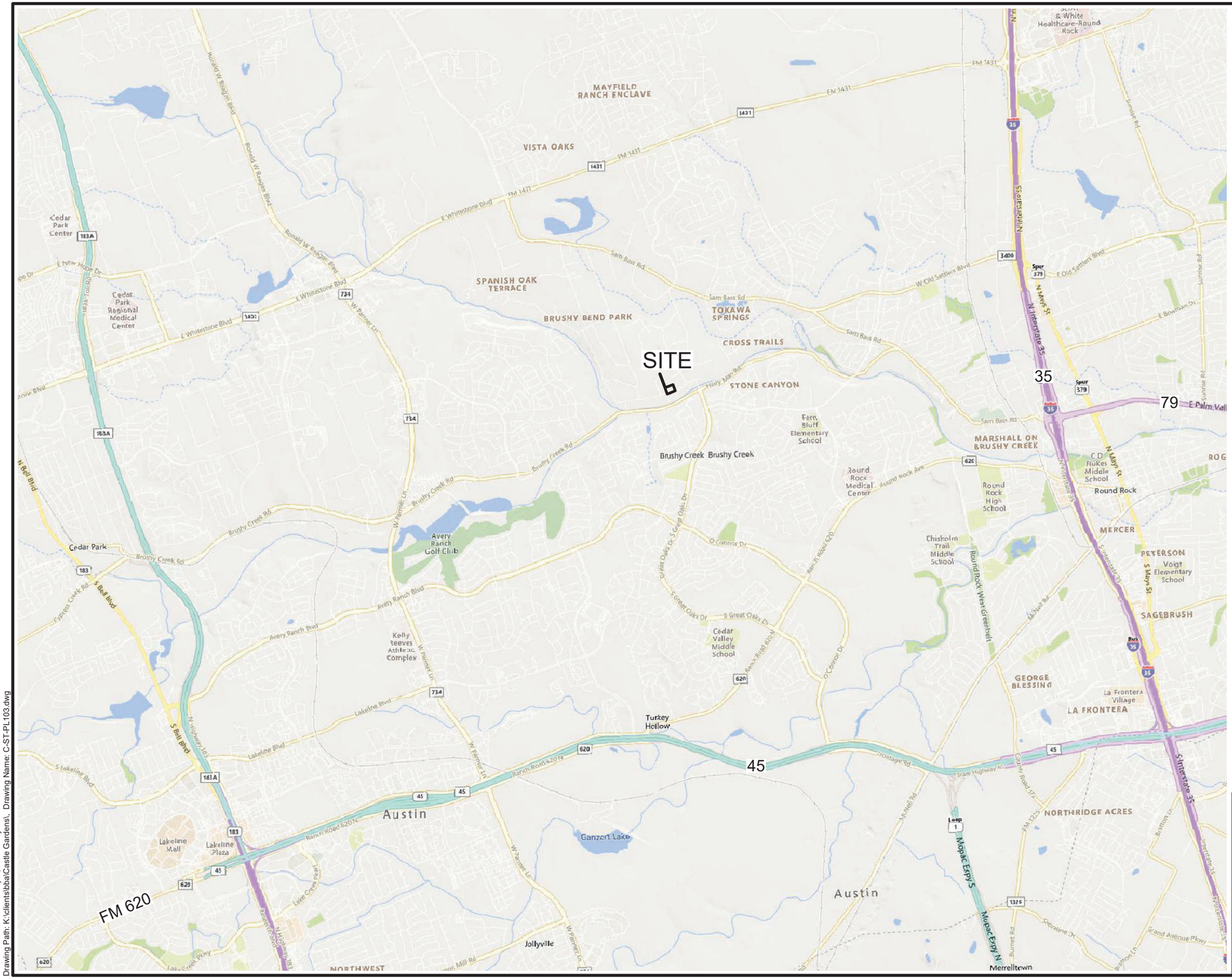
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

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

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

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

A. achment A – Road Map



Plot Date: 10/07/25 - 4:51pm, Plotted by: Admin
Drawing Path: K:\clients\bba\Castle Gardens\, Drawing Name: C-ST-PL103.dwg

Castle Garden Events Center
Water Pollution Abatement Plan

Attachment A

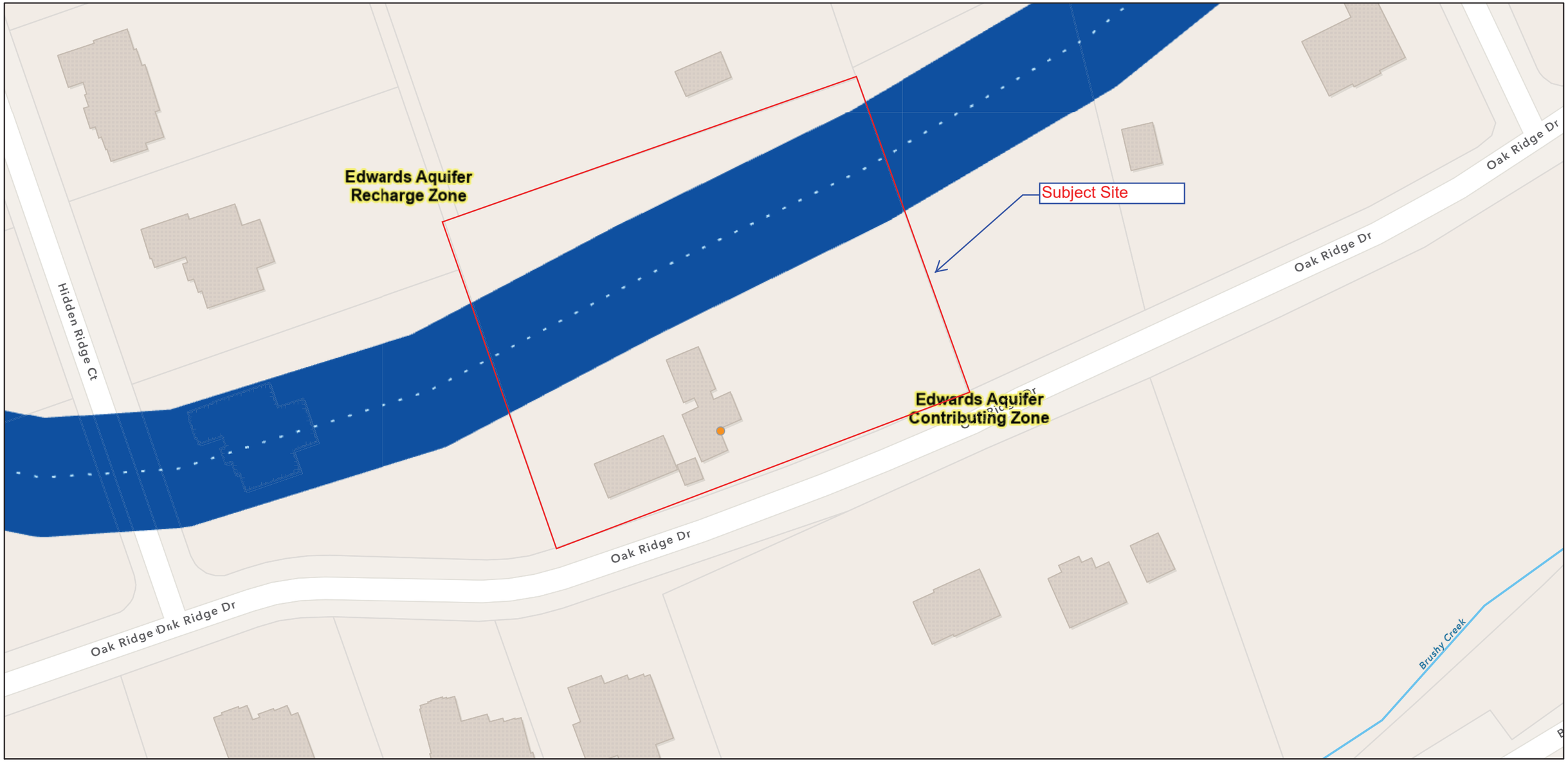
ROAD MAP

PROJECT: 25916	BY: RCAD-RR	DATE: OCT 2025	CHECKED: KMM

Bullock, Bennett & Associates, LLC
Engineering and Geoscience
Texas Registrations: Engineering F-8542, Geoscience 50127

Attachment B – USGS/Edwards Recharge Zone Map

Edwards Aquifer Viewer Custom Print



3/31/2025, 1:55:17 PM

- ArcGIS World Geocoding Service
- TCEQ_EDWARDS_OFFICIAL_MAPS
- 7.5 Minute Quad Grid
- TX Counties
- Edwards Aquifer Boundary central line
- Edwards Aquifer Boundary
- Edwards Aquifer Label

1:1,128

0 60 120 240 ft

0 15 30 60 m

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, TCEQ

Martin & Wallin
March 31, 2025

Attachment C – Project Description

Castle Garden Event Center Project Description

The Castle Garden Event Center (Castle Garden) will be located on an almost 2.6-acre property just to the north of Brushy Creek in Round Rock, Texas. The property is currently zoned for residen. al, but will be zoned as commercial.

The current site owner was not familiar with the site's history. According to the Williamson County Appraisal District data, the site was used for residential purposes from at least 2010 until December 4, 2023, when the current owner, 3904 Oak Ridge Dr LLC, purchased the property. According to historical aerial photographs, the home on the site was constructed between 2011 and 2012, and the property appeared undeveloped prior to then.

At the time of the current owner's purchase, the following were present on the site: an existing gravel drive, a 1-story garage, a 2-story house, a second building, gravel walks and rock walls, metal shed, gravel and spoils piles, and a concrete entry. Portions of the property are manicured lawn, while other parts are in a more natural condition with oak scrub and grasses.

Castle Garden plans to operate an event space for wedding ceremonies, graduation parties, special events, corporate functions, and similar. For this proposed use, which is to be covered by this Water Pollution Abatement Plan (WPAP), the existing second building, gravel drive, gravel walk and rock walls, and metal shed will be removed. Castle Garden plans to build a new building for events and a gazebo. Gravel parking will be added. A concrete drive will be poured. A stormwater sediment retention pond will be constructed on the downstream side of the property to serve as a permanent best management practice (BMP).

The amount of pervious cover to be added is 36,880.9 square feet (sf).

Geologic Assessment Form TCEQ-0585

Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

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

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

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Karen M. Miller Telephone: 512-468-7325

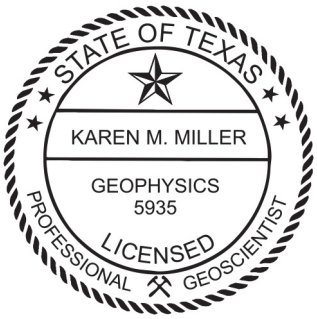
Date: 10/1/2025 Fax: _____

Representing: License # 5935

Bullock, Bennett & Associates, TBPG Registration Geoscience 50127 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

Karen M. Miller



Regulated Entity Name: Castle Garden Event Center

Project Information

1. Date(s) Geologic Assessment was performed: 8/1/2025
2. Type of Project:
   - ☒ WPAP
   - ☐ SCS
   - ☐ AST
   - ☐ UST
3. Location of Project:
   - ☒ Recharge Zone
   - ☐ Transition Zone

☒ Contributing Zone within the Transition Zone

4. ☒ **Attachment A - Geologic Assessment Table**. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.

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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)

Soil Name	Group*	Thickness(feet)
Eckrant-Rock Outcrop Assoc	D	1
Queeny clay loam	D	8
Fairlie clay	D	not observed on site

** Soil Group Definitions (Abbreviated)*

A. Soils having a high infiltration rate when thoroughly wetted.

B. Soils having a moderate infiltration rate when thoroughly wetted.

C. Soils having a slow infiltration rate when thoroughly wetted.

D. Soils having a very slow infiltration rate when thoroughly wetted.

6. ☒ **Attachment B – Stratigraphic Column**. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.

7. ☒ **Attachment C – Site Geology**. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.

8. ☒ **Attachment D – Site Geologic Map(s)**. The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1”: 400'

   Applicant's Site Plan Scale: 1" = 40'
   Site Geologic Map Scale: 1" = 40'
   Site Soils Map Scale (if more than 1 soil type): 1" = 40'

9. Method of collecting positional data:

   ☒ Global Positioning System (GPS) technology.
   ☐ Other method(s). Please describe method of data collection: _____

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.
12. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

    ☐ Geologic or manmade features were not discovered on the project site during the field investigation.
13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

    ☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
    - ☐ The wells are not in use and have been properly abandoned.
    - ☐ The wells are not in use and will be properly abandoned.
    - ☐ The wells are in use and comply with 16 TAC Chapter 76.

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

Administrative Information

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

Attachment A – Geologic Assessment Table and Soils Map

GEOLOGIC ASSESSMENT TABLE — PROJECT NAME:

LOCATION			FEATURE CHARACTERISTICS												EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DIP	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY
						X	Y	Z		10						<40	>40	<1.6	>1.6	
CD-1	30°31'19.05"N	97°44'20.77"W	CD	5	Qt	30	20	4	n/a	0	n/a	n/a	O, F,	5	10	X			X	Hillside

* DATUM:_____

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

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

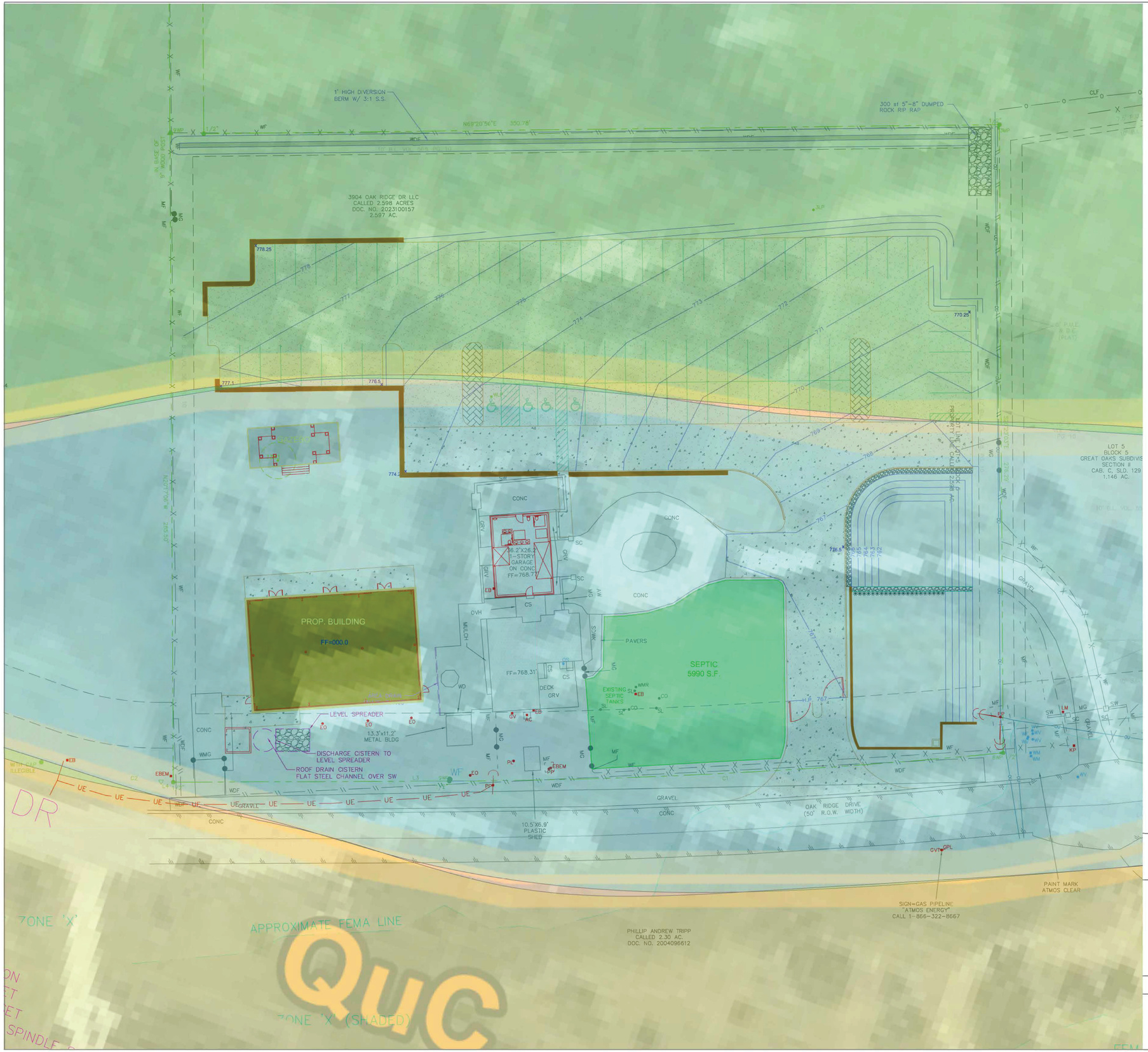
12 TOPOGRAPHY
Hillside

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.
My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

_____ Karen M. Miller _____ Date 9/1/2025

Sheet ___1___ of __1____

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



LEGEND

Soil Types

- ErE Eckrant-Rock Outcrop Assocation
- Fab Fairlie Clay
- QuC Queeny Clay Loam

Castle Garden Events Center

Water Pollution Abatement Plan

Attachment A

Site Soils Map

PROJECT: 25916	BY: SLB	DATE: 10/14/2025	CHECKED: KMM

Bullock, Bennett & Associates, LLC
Engineering and Geoscience
Texas Registrations: Engineering F-8542, Geoscience 50127

Attachment B – Stratigraphic Column

In preparation for this project, UES Professional Solutions 44, LLC conducted a geotechnical investigation of the site and drilled five test borings in February 2025. Based on their work, the stratigraphic columns shown below were developed based on both actual and interpretive information.

Generalized Subsurface Conditions Test Borings B-01, B-02, B-05			
Nominal Depth, feet		**General Description**	**Detailed Description**
Top of layer	**Bottom of layer**		
0	4.5	Fat clay	Firm to stiff fat clay (CH) [B-02]
0 to 4.5	2.5 to 8	Clayey sand	Dense Clayey Sand (SC) [B-01 B-02]
0 to 8	6.5 to 13.5	Weathered limestone	Light brown weathered limestone
6.5 to 13.5	20	Limestone	Light gray limestone

Generalized Subsurface Conditions Test Borings B-03, B-04			
Nominal Depth, feet		**General Description**	**Detailed Description**
Top of layer	**Bottom of layer**		
0	2.5 to 4.5	Fat clay	Firm to stiff fat clay (CH)
4.5	6	Clayey sand	Dense Clayey Sand (SC) [B-03]
2.5	6	Weathered limestone	Light brown weathered limestone [B-04]

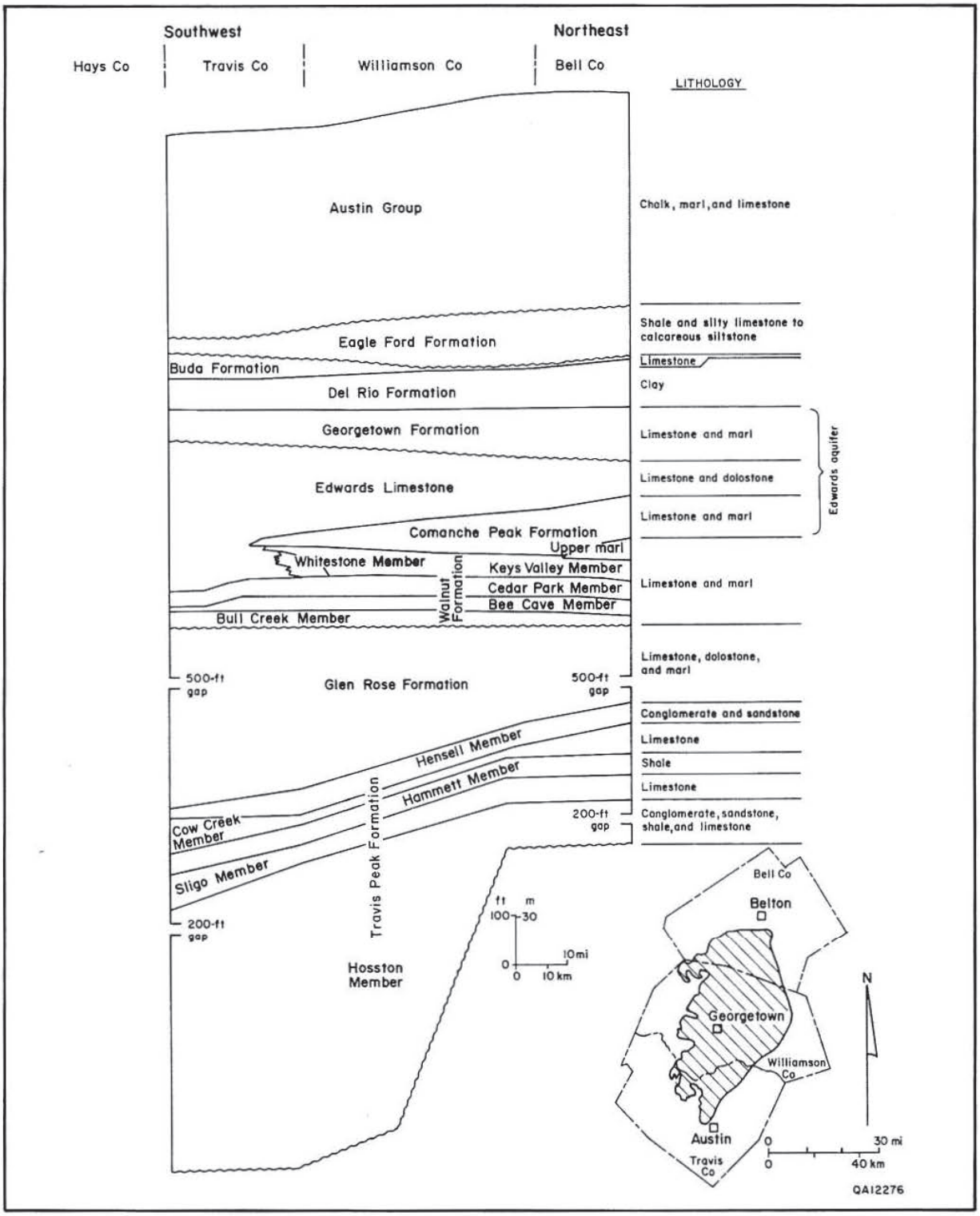


Figure 4. Stratigraphic column of Cretaceous rocks of the northern segment of the Edwards aquifer, Austin region.

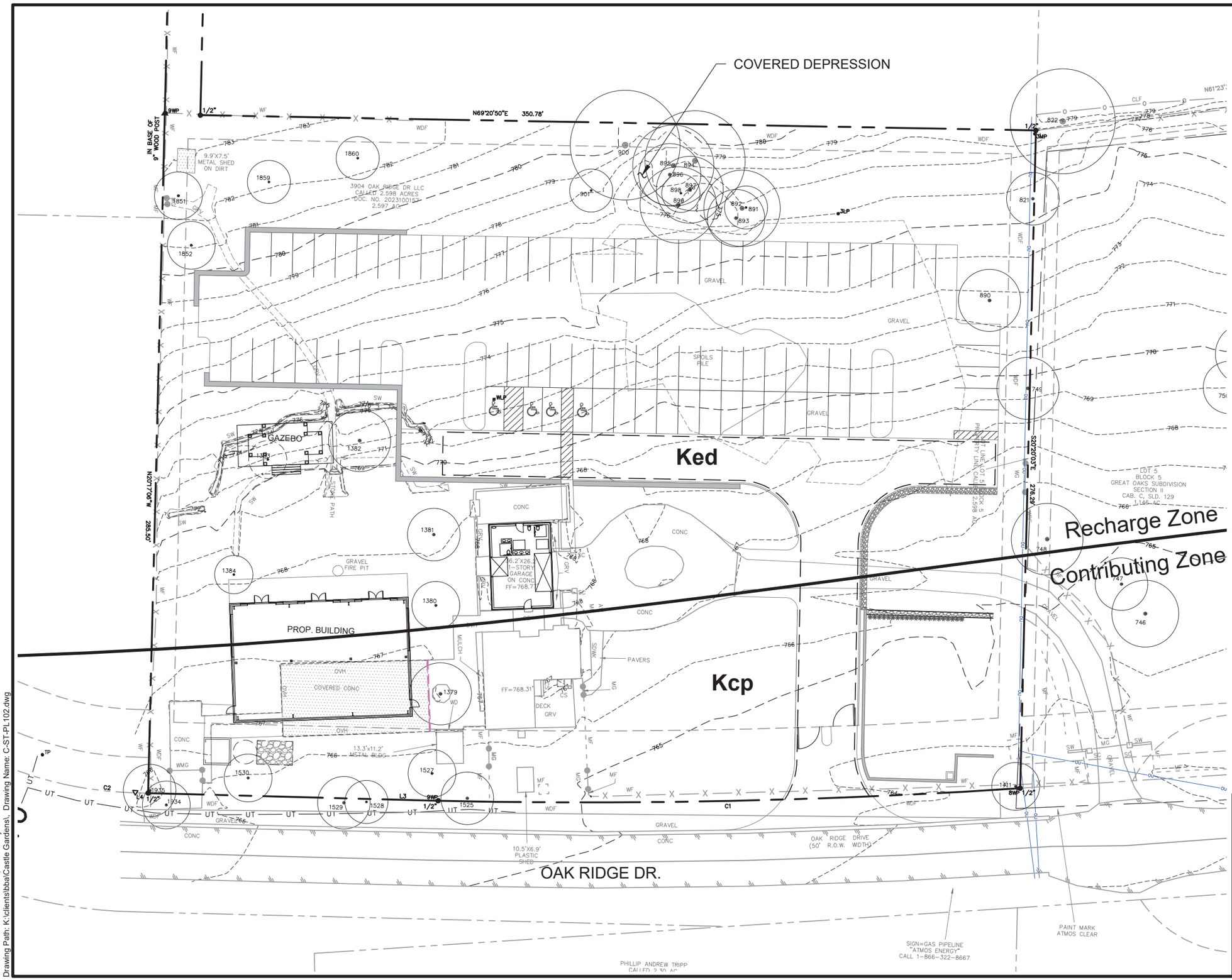
Attachment C – Site Geology

Attachment C – Site Geology

According to the Geologic Atlas of Texas, the subject property is located within the Edwards and Comanche Peak Limestones. The Edwards Limestone contains soft to extremely hard limestone, dolomitic limestone, and dolomite along with occasional marl or clay seams. The Edwards Limestone is susceptible to chemical weathering processes that produce solution cavities and voids and is typically vuggy when exposed. The Comanche Peak Limestone is comprised of limestone and marl that is nodular and fossiliferous. Observed at the site was weathered limestone that was dark gray, hard and extensive.

The project is within both the Edwards Aquifer Recharge as well as the Edwards Aquifer Contributing Zones. Recharge is primarily from direct infiltration via precipitation and streamflow loss, but can also occur along faults, fractures, and karst features.

Attachment D – Site Geologic Map



N

APPROXIMATE SCALE IN FEET

0 40 80

LEGEND:

	EDWARDS AQUIFER RECHARGE ZONE
Ked	EDWARDS LIMESTONE
Kcp	COMANCHE PEAK FORMATION

Castle Gardens Events Center

Water Pollution Abatement Plan

Attachment D

SITE GEOLOGIC MAP

PROJECT: 25916	BY: RCAD-RR	DATE: OCT 2025	CHECKED: KMM

Bullock, Bennett & Associates, LLC
Engineering and Geoscience
Texas Registrations: Engineering F-8542, Geoscience 50127

Plot Date: 10/08/25 - 9:19am, Plotted by: Admin
Drawing Path: K:\clients\bba\Castle Gardens\...Drawing Name: C-ST-PL102.dwg

Attachment E – Photographs of Non-Sensitive Feature

Photo 1: View of closed depression non-sensitive feature, looking towards the south.

Photo 2: View of closed depression non-sensitive feature, looking towards the west.

Photo 3: Close up view of a portion of the seep observed within the non-sensitive feature.

Attachment F – Bibliography

Attachment F - Bibliography

Atchison, Dick E., B.S., August 30, 1954, *Geology of Brushy Creek Quadrangle, Williamson County, Texas*.

Collins, Edward W., 2005, *Geologic Map of the West Half of the Taylor, Texas 30x60 Minute Quadrangle: Central Texas Urban Corridor, Encompassing Round Rock, Georgetown, Salado, Briggs, Liberty Hill, and Leader.*

Crouch, Brandon L., May 27, 2011, *A Conventional OSSF with Low Pressure Dose Disposal for a Church of 5,000 sq. ft. with water saving devices*.

Housh, Todd B., PhD, PG, 2007, *Bedrock Geology of Round Rock and Surrounding Areas, Williamson and Travis Counties, Texas*.

Martin & Wallin, August 27, 2025, *Castle Gardens Events Center Site Development* plans.

Senger, R. K., Collins, E. W., and Kreitler, C. W., 1990, *Hydrogeology of the Northern Segment of the Edwards Aquifer, Austin Region*: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 192, 58 p.

Texas Water Development Board, *Geologic Atlas of Texas*.

USDA Soil Conservation Service, January 1983, *Soil Survey of Williamson County, Texas*.

Insert tceq 0584

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), Effective June 1, 1999

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

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

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: 3904 OAK RIDGE DR LLC

Date: 10/1/2025

Signature of Customer/Agent: Ram Anusuri

Regulated Entity Name: Castle Garden Event Center

Regulated Entity Information

1. The type of project is:

   ☐ Residential: Number of Lots:_____
   ☐ Residential: Number of Living Unit Equivalents:_____
   ☒ Commercial
   ☐ Industrial
   ☐ Other:_____

2. Total site acreage (size of property):2.598

3. Estimated projected population:125

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

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	10,961	÷ 43,560 =	0.25
Parking	2,634	÷ 43,560 =	0.06
Other paved surfaces	12,952	÷ 43,560 =	0.30
Total Impervious Cover	26,547	÷ 43,560 =	0.61

Total Impervious Cover 0.61 **÷ Total Acreage** 2.5965 **X 100 =** 23.5**% Impervious Cover**

5. ☒ **Attachment A - Factors Affecting Surface Water Quality**. A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.

6. ☒ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

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

7. Type of project:

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

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

   ☐ Concrete
   ☐ Asphaltic concrete pavement
   ☐ Other: _____

9. Length of Right of Way (R.O.W.): _____ feet.

   Width of R.O.W.: _____ feet.
   L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.

10. Length of pavement area: _____ feet.

    Width of pavement area: _____ feet.
    L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.
    Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = _____% impervious cover.

11. ☐ A rest stop will be included in this project.

    ☐ A rest stop will not be included in this project.

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

100% Domestic	740 Gallons/day
0% Industrial	_____ Gallons/day
0% Commingled	_____ Gallons/day
TOTAL gallons/day _____	

15. Wastewater will be disposed of by:

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

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

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

☐ Sewage Collection System (Sewer Lines):

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

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

☐ The SCS was previously submitted on_____.

☐ The SCS was submitted with this application.

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

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

☐ Existing.
☐ Proposed.

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

Site Plan Requirements

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

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

Site Plan Scale: 1" = 20'.

18. 100-year floodplain boundaries:

☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
☒ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): 48491C0488F, revised 12/20/2019

19. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

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

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

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

☐ The wells are not in use and have been properly abandoned.
☐ The wells are not in use and will be properly abandoned.
☐ The wells are in use and comply with 16 TAC §76.

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

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

☐ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
☒ No sensitive geologic or manmade features were identified in the Geologic Assessment.
☐ **Attachment D - Exception to the Required Geologic Assessment**. A request and justification for an exception to a portion of the Geologic Assessment is attached.

22. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.

23. ☒ Areas of soil disturbance and areas which will not be disturbed.

24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

25. ☒ Locations where soil stabilization practices are expected to occur.

26. ☐ Surface waters (including wetlands).

    ☒ N/A

27. ☒ Locations where stormwater discharges to surface water or sensitive features are to occur.

    ☐ There will be no discharges to surface water or sensitive features.

28. ☒ Legal boundaries of the site are shown.

Administrative Information

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

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

Attachment A – Factors Affecting Surface Water Quality

Attachment A
Factors Affecting Water Quality

Potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the site during construction include:

- Soil erosion due to clearing;
- Fuel and maintenance fluids from construction vehicles and construction equipment;
- Trash and litter from construction workers;
- Concrete truck washout; and
- Potential overflow and spills from portable toilets.

Potential sources of pollutants that may be reasonably expected to affect the quality of stormwater discharge from the site after construction include:

- Fuel and maintenance fluids from vehicles;
- Miscellaneous trash and litter from events; and
- Grass clippings, fertilizer, and pesticides from lawn and property maintenance.

Attachment B – Volume and Character of Stormwater

Attachment B
Volume and Character of Stormwater

Stormwater runoff will decrease as a result of this development. Table B-1 describes the peak flow values for the 2 yr, 10 yr, 25 yr, and 100 yr storms before and after development. The HEC-HMS 24 hour frequency storm was used for each storm recurrence interval.

Table B-1: Peak flow values for predevelopment and post development conditions

Storm Recurrence Interval	Pre-development Total Peak	Post-development Total Peak
2 year	23 cfs	8 cfs
10 year	40 cfs	15 cfs
25 year	52 cfs	19 cfs
100 year	71 cfs	26 cfs

A 1.54 acre section of the property will be routed to a bioretention pond BMP to capture Total Suspended Solids. The area currently contributing runoff at the BMP location has a runoff coefficient of 0.10 (before development) and 0.19 after development. The runoff coefficients were calculated using TCEQ guidance (Technical Guidance on Best Management Practices, RG-348, 2005).

Table B-2. Runoff coefficients before and after development

	Contributing area	% Impervious	Runoff Coefficient
Before Development	8.95 acres	8%	0.10
After Development	1.54 acres	19%	0.19

Attachment C – Suitability Letter from Authorized Agent

Attachment D – Exception to the Required Geologic Assessment

Not applicable

Insert 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.

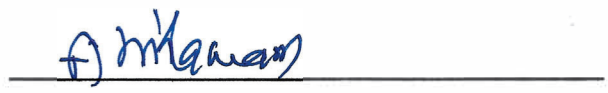
Signature

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: Sriramam Anusuri of 3904 Oak Ridge DR LLC

Date: 10/1/2025

Signature of Customer/Agent:



Regulated Entity Name: Castle Garden Event Center

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

Attachment A:
Spill Response Actions

It is not expected that the construction contractor and subcontractors will temporarily store gasoline and diesel in containers on the site. In the event that they do, they will only use containers smaller than 250 gallons. No other hazardous chemicals are expected to be stored on the site during construction activities. The site construction contractor will be required to provide secondary containment for fuel tanks/containers and to maintain spill response kits on the site.

In the event that gasoline or diesel is spilled, the following actions will be conducted:

1. **Assess and Alert**:
    - **Identify**: the substance spilled and its hazard level by checking the Safety Data Sheet (SDS).
    - **Alert**: others nearby to the spill and evacuate the area if necessary.
    - **Notify**: the site supervisor or call 911, if the spill is larger than can be handled with site personnel.
2. **Ensure Your Safety**:
    - **Wear**: appropriate Personal Protective Equipment (PPE), such as gloves, goggles, and protective clothing, before approaching the spill.
    - **Eliminate**: sources of ignition, such as flames or sparks, if the spill is of a flammable material and it is safe to do so.
3. **Stop the Spill**:
    - **Address**: the source of the leak and stop it by tightening a valve, rotating a container, or plugging a puncture, if it's safe.
4. **Contain and Remove the Spill**:
    - **Prevent**: the spill from spreading by placing absorbent socks, booms, or other barriers around its perimeter.
    - **Protect**: drains, sewers, and waterways by blocking or covering any nearby drains with appropriate materials.
    - **Collect**: the used absorbent material and place it in a designated contaminated waste bag or container.
    - **Dispose**: of the contaminated waste properly according to local regulations, contacting a waste disposal contractor if necessary.
5. **Restock and Review**:
    - **Restock**: the spill kit.
    - **Review**: the incident to identify ways to prevent similar spills in the future.
    - **Notify**: notify TCEQ if required. The following spills are reportable to TCEQ:
        1. 25 gallons of petroleum spilled to the ground surface.
        2. Oil sheen on water

Attachment B – Potential Sources of Contamination

Attachment B:
Potential Sources of Contamination

Potential sources of contamination during the construction phase include:

1. Fuel and petroleum-based maintenance fluids from vehicles and equipment.
   Preventative Measures: No vehicle maintenance will occur on site. Construction vehicles and equipment should be inspected regularly for leaks and repaired immediately. Contractor shall maintain spill response equipment onsite and respond promptly to spills.

2. Trash and litter from construction workers.

   Preventative Measures: Trash containers will be provided by the contractor. Contractor shall conduct daily pick up of trash and litter.

3. Construction debris.

   Preventative Measures: Contractor will monitor construction debris on a daily basis and will pick up debris and place it into disposal bins on a weekly basis.

4. Spills/overflow from portable toilets.
   Preventative Measures: Portable toilets will be placed away from sensitive features and high vehicular traffic areas. Toilets will be placed on level ground and will be staked if high winds are anticipated. Contractor shall regularly inspect toils for leaks and provide regular servicing to maintain sanitary conditions.

5. Sediment from soil-disturbing activities.
   Preventative Measures: Contractor shall conduct inspections as required in the WPAP and the Stormwater Pollution Prevention Plan. Corrective actions will be undertaken as required to reduce sediment flows and tracking from the site.

Attachment C – Sequence of Major Activities

Attachment C:
Sequence of Major Activities

Refer to Sheet C1.3 of the Site Development Plans. In general, the sequence of major activities will consist of the following steps, which may be modified based on site conditions:

- Installation of temporary BMPs, including construction entrance or driveway;
- Construction of stormwater detention pond;
- Clearing as needed;
- Grading as needed; and
- Construction of proposed structures.

Some of the activities may occur concurrently. All temporary BMPs will be installed prior to start of construction activities. The max area that may be disturbed for each these activities is 1.5 acres or less. Temporary BMPs are shown on Sheets C1.3 and C1.4.

Attachment D – Temporary Best Management Practices and Measures

Attachment D – Temporary Best Management Practices and Measures

a. 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.

As part of construction, one of the first steps will be the construction of a permanent berm on the upstream side of the facility. This will divert stormwater upgradient of the property around the proposed construction activities. Flows across the site will be directed to the proposed sediment basin, which will be constructed early in the project.

b. 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.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing the sediment and solids within the site, the pollutants will not enter surface streams and/or sensitive features.

Before any of this work can begin, the construction contractor will be responsible for the installation of on-site control measures. The methodology for pollution prevention of on-site stormwater will include: (1) installation of stabilized construction entrance/exit(s) to reduce the dispersion of sediment from the site, (2) installation of silt fencing and organic mulch socks on downgradient property boundaries, and (3) installation of construction staging area(s) and concrete wash-out pit.

c. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing the sediment and solids within the site, the pollutants will not enter surface streams and/or sensitive features. The inspection program proposed in this WPAP will ensure that BMPs are working as designed, and that corrective actions are implemented in a timely fashion.

d. 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.

Not applicable. No sensitive features were identified during the Geologic Assessment. However, should sensitive features be identified during construction, the owner's engineer and geologist will identify and implement measures to maintain flow.

Attachment E – Request to Temporarily Seal a Feature

Not applicable

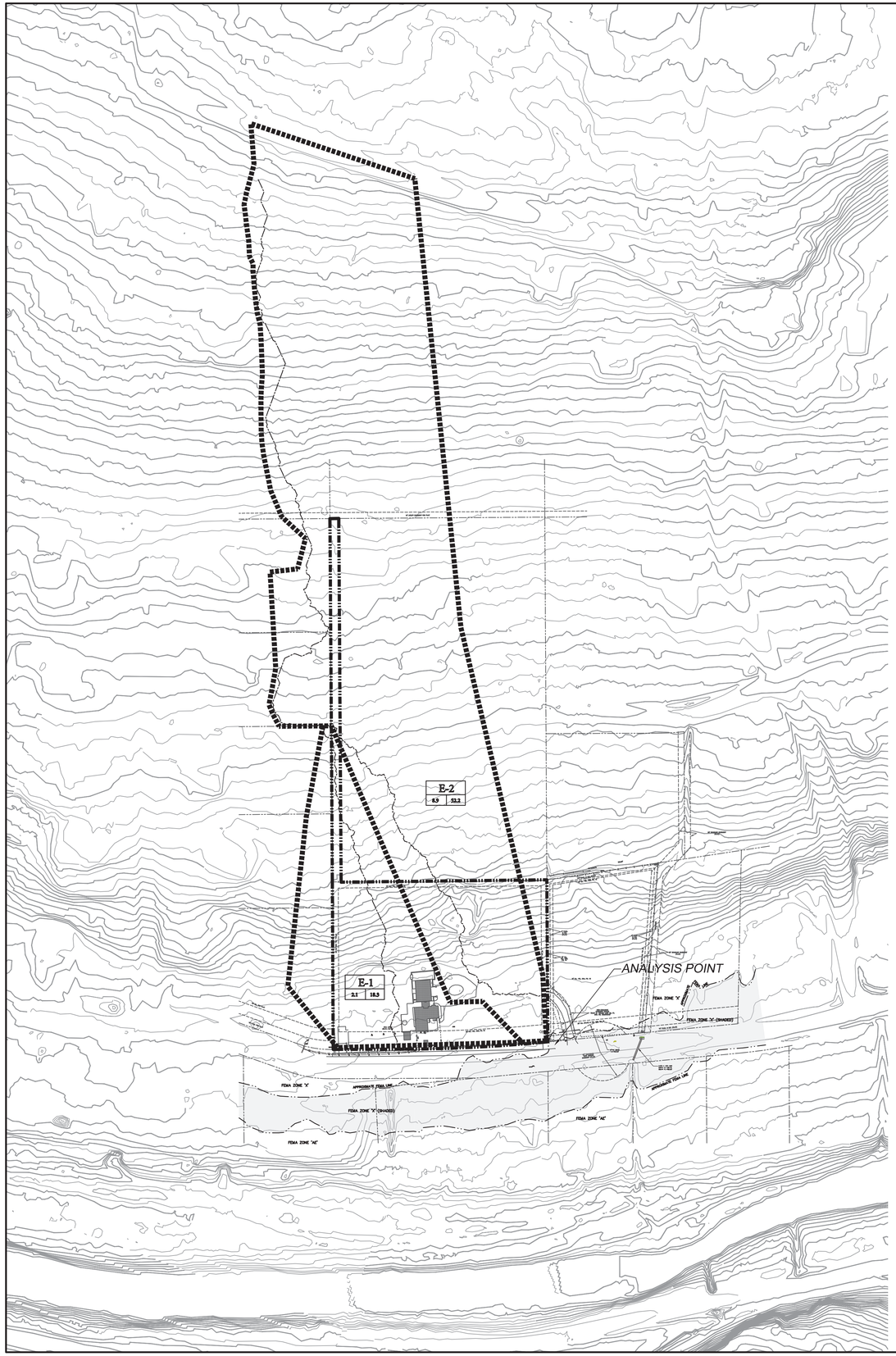
Attachment F – Structural Practices

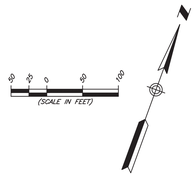
Attachment F – Structural Practices

The following structural measures will be installed at the initiation of site preparation activities or as appropriate based on construction sequencing:

- Installation of stabilized construction entrance/exit(s) and construction staging area(s), as located on Sheets C1.3 and C1.4.
- Construction of a permanent sediment basin. More detail is provided in the Permanent Stormwater section.

Attachment G – Drainage Area Map





LEGEND

A / 1.0 | 1.0	EXISTING / PROPOSED DRAINAGE SUB AREA AREA ACREAGE 100 YR. FLOW, C.F.S.
	SUB AREA BOUNDARY
	FLOW DIRECTION
CfB/GaB	SOIL CLASSIFICATION (CLASS D SOILS)
	Tc TRAVEL PATH
	EXISTING STORMSEWER
	PROPOSED STORMSEWER
SF	SHEET FLOW
SCF	SHALLOW CONCENTRATED FLOW

NOTES

1. THE SITE DRAINAGE ANALYSIS WAS DESIGNED USING HEC-HMS AND THE ATLAS 14 FREQUENCY STORM AS DEFINED IN THE DRAINAGE CRITERIA MANUAL FOR THE CITY OF ROUND ROCK.
2. REFER TO THE DRAINAGE CALCULATIONS AND THE ENGINEER'S REPORT FOR DETAILED INFORMATION ON ALL DRAINAGE CALCULATIONS.
3. AREAS SHOWN AS 'SUB AREAS' ARE ONLY USED FOR CALCULATING DRAINAGE CONDUITS AND INLETS. REFER TO DRAINAGE STUDY FOR IN DEPTH DRAINAGE INFORMATION.
4. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS, AND PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY OR FINAL INSPECTION RELEASE BY THE CITY, THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE AND DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS.
5. CONTRACTOR SHALL CALL THE TEXAS EXCAVATION SAFETY SYSTEM 1-800-DIG-TESS FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN UTILITY EASEMENTS OR STREET RIGHT OF WAY.

HEC-HMS SUMMARY

EXISTING CONDITIONS, AREAS E1 and E2

	Area (ac)	Imperv Cover (ac)	Hydrologic Soils	SCS CN	Tc (min)	Tlag (min)	Q2	Q10	Q25	Q100
Drainage E1	2.1	0.24	D	82	14.4	8.64	6.0	10.5	13.5	18.3
Drainage E2	8.9	0.69	D	82	33.0	19.8	16.7	29.6	38.1	52.2
Analysis Point							22.7	40.1	51.6	70.5

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Castle Garden Event Center
Site Development
3904 Oak Ridge Dr.
Round Rock, Tx. 78681

STATE OF TEXAS
PAUL H. MARTIN III
104704
REGISTERED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY PAUL H. MARTIN III, P.E. 104707 ON 11/10/2025. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Issue Date: November 6, 2025

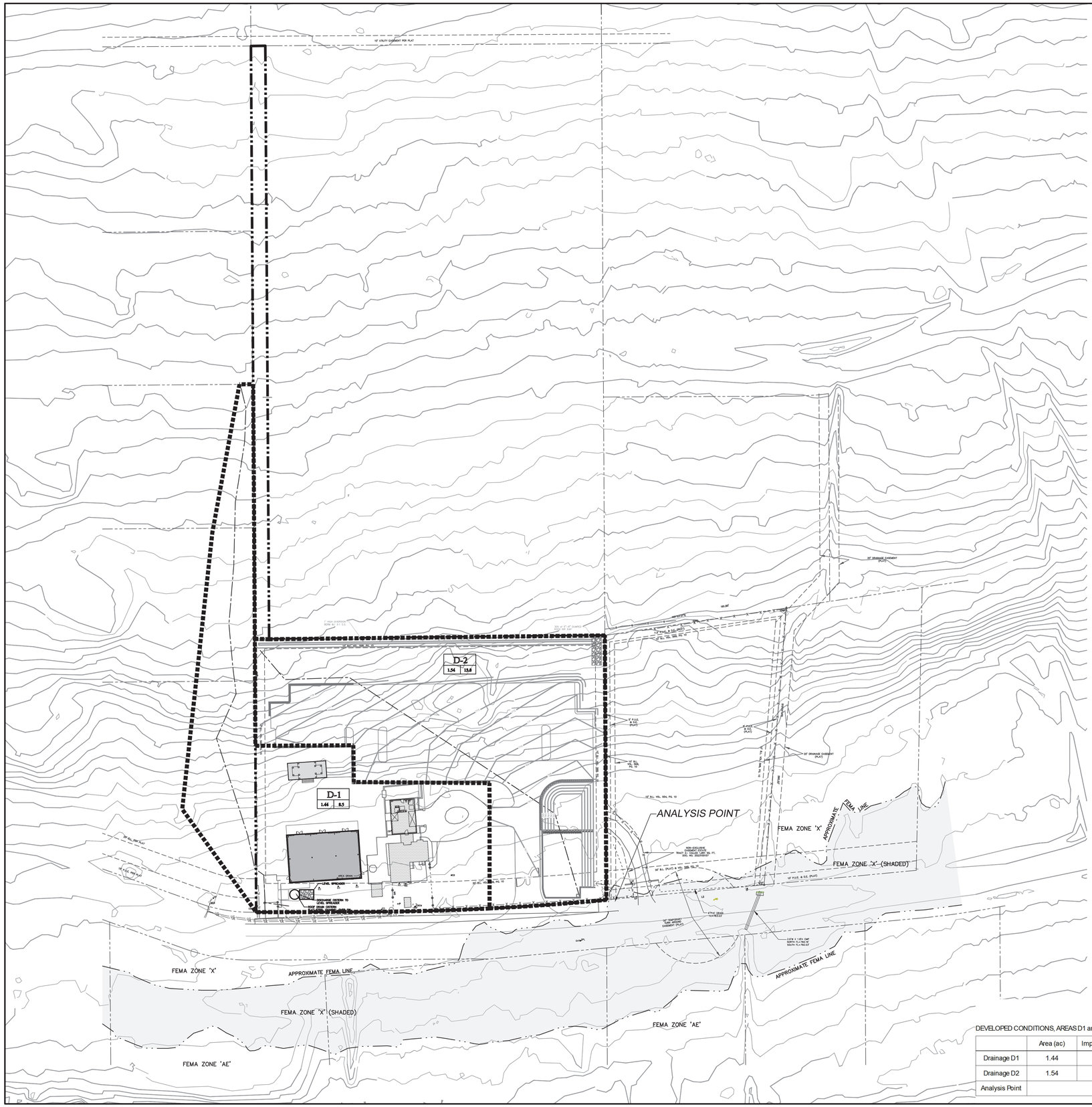
Revisions

No.	Date	Description
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title: EXISTING OVERALL DRAINAGE

Sheet No.: C1.7



LEGEND

A / 1.0 | 1.0	EXISTING / PROPOSED DRAINAGE SUB AREA / AREA ACREAGE / 100 YR. FLOW, C.F.S.
	SUB AREA BOUNDARY
	FLOW DIRECTION
LcB	SOIL CLASSIFICATION (CLASS C SOILS)
	Tc TRAVEL PATH
	EXISTING STORMSEWER
	PROPOSED STORMSEWER
SF	SHEET FLOW
SCF	SHALLOW CONCENTRATED FLOW

NOTES

1. THE SITE DRAINAGE ANALYSIS WAS DESIGNED USING HEC-HMS AND THE ATLAS 14 FREQUENCY STORM AS DEFINED IN THE DRAINAGE CRITERIA MANUAL FOR THE CITY OF ROUND ROCK.
2. REFER TO THE DRAINAGE CALCULATIONS AND THE ENGINEER'S REPORT FOR DETAILED INFORMATION ON ALL DRAINAGE CALCULATIONS.
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5. CONTRACTOR SHALL CALL THE TEXAS EXCAVATION SAFETY SYSTEM 1-800-DIG-TESS FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN UTILITY EASEMENTS OR STREET RIGHT OF WAY.

HEC-HMS SUMMARY

DEVELOPED CONDITIONS, AREAS D1 and D2

	Area (ac)	Imperv Cover (ac)	Hydrologic Soils	SCS CN	Tc (min)	Tlag (min)	Q2	Q10	Q25	Q100
Drainage D1	1.44	0.23	D	81	15.6	9.4	4.2	7.2	9.1	12.6
Drainage D2	1.54	0.29	D	91	6.0	3.6	3.8	7.6	10.0	13.8
Analysis Point							8.0	14.8	19.1	26.4

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STATE OF TEXAS
PAUL H. MARTIN III
104704
REGISTERED PROFESSIONAL ENGINEER

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Issue Date: November 6, 2025

Revisions

No.	Date	Description
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title: PROPOSED OVERALL DRAINAGE

Sheet No.: C1.8

Attachment H – Temporary Sediment Pond Plans and Calculations

Attachment I – Inspection and Maintenance for BMPs

Attachment I – Inspection and Maintenance for BMPs

INSPECTIONS

During construction activities, a qualified person shall inspect Best Management Practice (BMP) pollution control measures every week and within 24 hours after a storm event. A record of the inspection, including the name of the inspector, date of the inspection, major observations, and corrective actions undertaken as a result of the inspection will be recorded on the form on the attached page (or similar). Records shall be maintained for a year after final stabilization.

Inspection Form – Castle Garden Event Center

Pollution Prevention Measure	In compliance at time of inspection	Corrective Action Required	
		Description	Date Completed
Vegetated buffer strips			
Sediment control basin			
Silt fence			
Berm			
Concrete washout pit			
Construction entrance			
Other			
Evidence of Erosion			
Note areas where erosion observed			
Significant Observations			
Sediment discharges from site			
BMPs requiring maintenance			
BMPs requiring modification			
Additional BMPs required			
Other			

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

"I further certify I am an authorized signatory in accordance with the provisions of 30 TAC §305.128."

_____ _____ _____

Inspector's Name Inspector's Signature Date

Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

Interim on-site stabilization measures will include minimizing soil disturbances by exposing the smallest practical area of land required for the shortest period of time and maximizing the use of natural vegetation. As soon as practicable, all disturbed soil will be stabilized as per project specifications in accordance with pages 1-35 to 1-60 of TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) and Sheet C1.3. Mulching, netting, erosion blankets and seeding are acceptable.

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided below, will be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable.

Insert 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)(Ii), (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: 3904 OAK RIDGE DR LLC, Sriramam Anusuri

Date: 10/1/2025

Signature of Customer/Agent

Regulated Entity Name: Castle Garden Event Center

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 A – 20% or Less Impervious Cover Waiver

Not applicable

Attachment B – BMPs for Upgradient Stormwater

Attachment B – BMPs for Upgradient Stormwater

Castle Garden Event Center intends to construct an earthen berm along the upgradient property boundary to divert upgradient stormwater around the construction zone. Therefore, upgradient water will not flow across the project limits.

Attachment C – BMPs for On-Site Stormwater

Attachment C – BMPs for On-Site Stormwater

Castle Garden Event Center intends to construct a permanent sediment basin for the removal of silt from on-site stormwater. This basin in shown on the Sheets in Attachment F.

Attachment D – BMPs for Surface Streams

Attachment D – BMPs for Surface Streams

There are no on-site surface streams.

Castle Garden intends to rely on the following BMPs to protect surface water quality:

- The sediment basin will remove sediment from site stormwater and protect off-site, downgradient surface streams.
- The use of permeable paving will filter some sediments as stormwater infiltrates through the drainage layers beneath.
- An existing cistern reduces stormwater runoff from the site.

Attachment E – Request to Seal Features

Not applicable

Attachment F – Construction Plans

Project Title: Castle Garden Event Center

Legal Description: RCode: R-16-0179-0000-0004B
Tract 2: A TRACT OR PARCEL OF LAND, 2.609 ACRES, MORE OR LESS, OUT OF THE JOHN H. DILLARD SURVEY, ABSTRACT NO. 179

Project Address: Castle Garden Event Center
3904 Oak Ridge Drive
Round Rock, TX. 78681

Property Owner: Company: 3904 Oak Ridge LLC
Contact: Ram Anusuri
Street: 2929 PORTULACA DRIVE
GEORGETOWN, TX 78626
Email: sanusuri@gmail.com
Phone: (510) 282-0891

Civil Engineer: Martin & Wallin LLC
Contact: Paul Martin
PO Box 202043
Austin, TX 78720
pmartin@martinandwallin.com
512.368.4088

Structural Engineer: Martin & Wallin LLC
Contact: Paul Martin
PO Box 202043
Austin, TX 78720
pmartin@martinandwallin.com
512.368.4088

Septic Consultant: Company: BRANDON COUCH, R.S.
Street: 2314 ROCK LEDGE DRIVE
GEORGETOWN, TX 78626
Email: BCOUCH@VERIZON.NET
Phone: 512-630-8600

Architect: Company: Studio RM
Contact: Richard Mies
651 N. HWY-183, #335-110
Leander TX 78641
Email: rickmies@thestudiorm.com
Phone: 512-423-8147

Surveyor: Company: Diamond Surveying, Inc.
Contact:
116 Skyline Road
Georgetown, TX 78628
Email: keith@diamondsurveying.com
Phone: 512-931-3100

SITE CALCULATIONS

EXISTING SITE IMPERVIOUS COVER

TOTAL SITE AREA	113103 SQ. FT.	= 2.60 AC.
EXISTING IMPERVIOUS COVER	10979 SQ. FT.	= 0.25 AC.
	PERCENT OF TOTAL SITE	0.10%

PROPOSED SITE IMPERVIOUS COVER

TOTAL SITE AREA	113103 SQ. FT.	= 2.596 AC.
PROPOSED IMPERVIOUS COVER	47859 SQ. FT.	= 1.099 AC.
	PERCENT OF TOTAL SITE	0.42%

FLOOD PLAIN NOTE: THIS AREA IS NOT IN SPECIAL FLOOD HAZARD AREAS PER FEMA'S FLOOD INSURANCE RATE MAP #48491C0488F, EFF. 12/20/2019, THIS STATEMENT IS NOT MADE IN LIEU OF AN ELEVATION CERTIFICATE.

WATERSHED NOTE: TURKEY CREEK – BRUSHY CREEK

TCEQ NOTE: THIS PROJECT LIES IN THE EDWARDS AQUIFER, PARTIALLY IN THE CONTRIBUTING ZONE, AND PARTIALLY IN THE RECHARGE ZONE. A GEOLOGIC ASSESSMENT IS UNDERWAY AND A CZP & SWPPP FILED.

UTILITY CONTACTS:

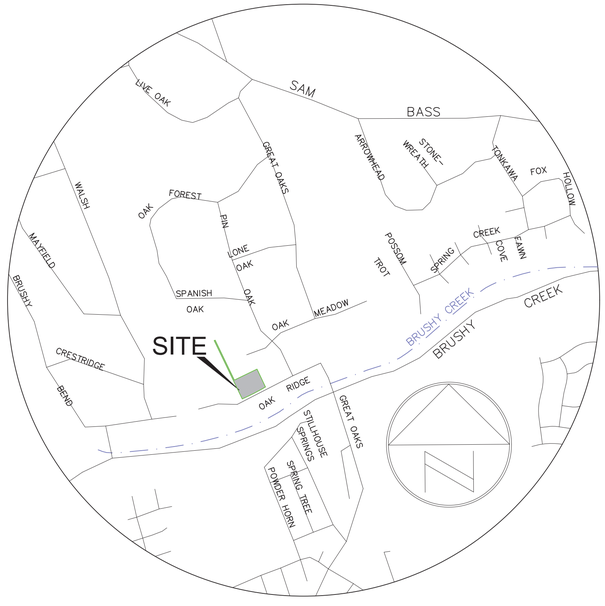
WATER:	AQUA TEXAS (WEST AUSTIN)	512-330-9904
WASTEWATER:	ON SITE SEPTIC	
ELECTRIC:	PEDERNALES ELECTRIC COOP	877-372-0391
CABLE/TELEPHONE:	SPECTRUM	833-951-0943
NATURAL GAS:	ATMOS	866-332-8667

REVISIONS / CORRECTIONS

No.	Description	Revise (R) Add (A) Void (V) Sheet No.'s	Total # Sheets in Plan Set	Net Change Imp. Cover (sq. ft.)	Total Site Imp. Cover (sq. ft.) / [%]	City of Round Rock Approval / Date	Date Imaged

CASTLE GARDEN EVENT CENTER

3904 Oak Ridge Dr.
Round Rock, TX
Jurisdiction: Williamson County



Project Location Map
N.T.S.

Civil List Table	
Sheet Number	Sheet Title
C0.1	COVER
C1.0	STANDARD NOTES
C1.1	FINAL PLAT
C1.2	EXISTING CONDITIONS & DEMO PLAN
C1.3	EROSION CONTROL NOTES
C1.4	EROSION CONTROL PLAN
C1.5	SITE PLAN
C1.6	GRADING PLAN
C1.7	EXISTING DRAINAGE PLAN
C1.8	PROPOSED DRAINAGE PLAN
C1.9	STORM SEWER PLAN
C1.10	POND PLAN & DETAILS
C1.11	POND CALCULATIONS
C1.12	UTILITY & FIRE PROTECTION PLAN
C2.0	CIVIL DETAILS
C2.1	CIVIL DETAILS

IMPORTANT NOTES TO CONTRACTOR

1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER, DESIGN ENGINEER OR THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, AND SHALL REPAIR OR REPLACE TO NEW QUALITY.
2. CAUTION: DO NOT USE THESE DRAWINGS FOR STAKING BUILDINGS ON THIS PROJECT. THE SIZE AND CONFIGURATION OF THESE BUILDINGS SHOWN HEREON ARE BASED ON THE LATEST ARCHITECTURAL INFORMATION AVAILABLE TO MARTIN AND WALLIN LLC. AT THE TIME OF COMPLETION OF THESE PLANS. THE FUTURE SIZE AND CONFIGURATION OF EACH BUILDING IS SUBJECT TO CHANGE. THE LATEST APPROVED, SIGNED AND SEALED ARCHITECTURAL PLANS SHOULD BE CONSULTED FOR THE ACTUAL SIZE, CONFIGURATION AND LOCATION OF EACH BUILDING.
3. CONTRACTOR SHALL REFER TO CITY OF ROUND ROCK CONSTRUCTION STANDARDS MANUAL AND SPECIFICATIONS, OR ANY REQUIRED LOCAL CODE WHICHEVER IS MOST STRINGENT.

1. I, Paul Martin, do hereby certify that the engineering work being submitted herein complies with all provisions of the Texas Engineering Practice Act, including Section 131.152(e). I hereby acknowledge that any misrepresentation regarding this certification constitutes a violation of the Act, and may result in criminal, civil and/or administrative penalties against me, as authorized by the Act.
2. I certify that these engineering documents are complete, accurate and adequate for the intended purposes, including construction, but are not authorized for construction prior to formal City approval.

STATE OF TEXAS
PAUL H. MARTIN, III
104704
LICENSED
PROFESSIONAL ENGINEER

Martin & Wallin
PO Box 202043
Austin, Texas 78720
512-368-4088
www.martinandwallin.com
TX Eng Firm F-12503
AUSTIN ♦ DENVER

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK (CORR) DESIGN AND CONSTRUCTION STANDARDS (DACS) SPECIFICATIONS MANUAL.
2. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC. (NOT PLANNED FOR DEMOLITION OR REMOVAL) THAT ARE DAMAGED OR REMOVED, SHALL BE REPAIRED, OR REPLACED, AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER WHO SHALL BE RESPONSIBLE FOR REVISING THE PLANS AS APPROPRIATE. FAILURE TO COMPLETE THIS STEP PRIOR TO COMMENCEMENT OF CONSTRUCTION MAY RESULT IN SIGNIFICANT DELAYS AND/OR EXPENDITURES FOR WHICH THE CITY SHALL NOT BE HELD LIABLE.
4. MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL PAVING CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE THE CITY OF ROUND ROCK WITH A 48-HOUR NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. TELEPHONE (512) 218-5428 (PLANNING AND DEVELOPMENT SERVICES DEPARTMENT --PDS)
6. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THIS INCLUDES ANY AREAS LOCATED OUTSIDE OF THE DEFINED LIMITS OF CONSTRUCTION (LOC), IN RIGHTS-OF-WAY (ROW), OR LOCATED ON ADJACENT PROPERTIES. REVEGETATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, AT THE CONTRACTOR'S DISCREPANCY, AS OUTLINED IN THE CITY'S DESIGN AND CONSTRUCTION STANDARDS. THE TYPE OF REVEGETATION PROVIDED MUST BE EQUIVALENT TO OR EXCEED THE TYPE OF VEGETATION PRESENT PRIOR TO CONSTRUCTION.
7. PRIOR TO ANY CONSTRUCTION, A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CITY OF ROUND ROCK, THE DESIGN ENGINEER, THE CONTRACTOR, SUBCONTRACTORS, OTHER UTILITY COMPANIES, AND ANY AFFECTED PARTIES OR OTHER ENTITY THE CITY OR DESIGN ENGINEER DEEM NECESSARY.
8. THE CONTRACTOR AND THE DESIGN ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. CHANGES TO APPROVED, CONSTRUCTION-STAMPED PLANS WILL REQUIRE A REVISION FROM THE DESIGN ENGINEER THAT IS APPROVED BY THE CITY PRIOR TO FIELD USE. THE DESIGN ENGINEER SHALL FURNISH THE CITY OF ROUND ROCK ACCURATE "AS-BUILT" RECORD DRAWINGS FOLLOWING COMPLETION OF ALL CONSTRUCTION. THESE "AS- BUILT" RECORD DRAWINGS SHALL MEET WITH THE SATISFACTION OF THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
9. THE CITY OF ROUND ROCK SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.
10. WHENEVER CONSTRUCTION ACTIVITIES ARE TAKING PLACE WITHIN AN EXISTING EASEMENT, THE CONTRACTOR SHALL CONFINE THEIR WORK TO WITHIN THE BOUNDS OF SAID EASEMENT. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN ANY PERMANENT OR TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE CITY OF ROUND ROCK CIVIL INSPECTOR AND/OR THE CITY ENGINEER.
11. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
12. AVAILABLE PERMANENT BENCHMARKS (CITY OF ROUND ROCK DATUM) WITH VERTICAL DATUM INFORMATION THAT MAY BE UTILIZED FOR THE CONSTRUCTION OF THIS PROJECT AND ARE DESCRIBED AS FOLLOWS:

    BENCHMARK 100: PK NAIL SET IN ASPHALT AT SOUTHWEST PORTION OF CUL-DE-SAC OF INDUSTRIAL BOULEVARD, IMMEDIATELY NORTH OF CENTERLINE OF CONCRETE DRAINAGE CHANNEL.
    ELEVATION=746.73'
    SURFACE COORDINATES: N=10163636.94 E=3127930.32

    BENCHMARK 2800: PK NAIL SET ON TOL OF CURB ON THE WEST SIDE OF INDUSTRIAL BOULEVARD AT THE START OF CUL-DE-SAC, APPROXIMATELY 100' NORTH OF CONCRETE DRAINAGE CHANNEL LOCATE AT SOUTHWEST PORTION OF CUL-DE-SAC.
    ELEVATION=748.10'
    SURFACE COORDINATES: N=10163730.73 E=3127895.64

    VERTICAL DATUM: NAVD-88 (GEOID 2012A) PER LEICA VRS (SMARTNET) GPS NETWORK, ESTABLISHED ON SITE FEBRUARY 7, 2024. HELD BENCHMARK & CONTROL POINT #100 (ELEVATION=746.73'). ALL OTHER CONTROL POINT ELEVATIONS ARE BASED ON CONVENTIONAL LEVELING METHODS.

STREET AND DRAINAGE NOTES

1. ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY AT THE OWNER'S EXPENSE. ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS. TESTING SHALL BE COORDINATED WITH THE CITY INSPECTOR, AND THEY SHALL BE GIVEN A MINIMUM 24-HOUR NOTICE PRIOR TO ANY TESTING.
2. PUBLIC ROADWAYS CONSTRUCTED AS PART OF ANY DEVELOPMENT PERMIT SHALL BE FREE FROM DEFECTS, PATCHES, OR REPAIRS PRIOR TO ACCEPTANCE BY THE CITY OF ROUND ROCK. ROADWAYS SHALL HAVE A CLEAR SURFACE FREE FROM ANY GOUGES, MARRING, OR CRACKING TO BE CONSIDERED SUITABLE TO THE CITY OF ROUND ROCK TRANSPORTATION DEPT. NO NEW ROADWAYS SHALL BE ACCEPTED UNTIL ALL CONSTRUCTION TRAFFIC RELATED TO THIS OR ANY ASSOCIATED PERMIT HAS CEASED, AND THE ROADWAY IS OPEN TO AND EXCLUSIVELY USED BY THE GENERAL PUBLIC.
3. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 3" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 3" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLUMPS AND SUITABLE FOR SUSTAINING PLANT LIFE.
4. THE DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT INCLUDING GAS, ELECTRIC, TELEPHONE, CABLE TV, WATER SERVICES, ETC. SHALL BE A MINIMUM OF 30" BELOW SUBGRADE.
5. STREET RIGHTS-OF-WAY SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OF-WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS SUBMITTED TO AND APPROVED BY THE CITY OF ROUND ROCK PLANNING AND DEVELOPMENT SERVICES DEPARTMENT.
6. BARRICADES, BUILT TO CITY OF ROUND ROCK STANDARDS, SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND, AS NECESSARY, DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
7. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE MINIMUM CLASS III. ALL PUBLIC RCP SHALL BE A MINIMUM OF 18-INCHES IN DIAMETER.
8. THE SUBGRADE MATERIAL FOR THE STREETS SHOWN HEREIN WAS TESTED BY _____(FIRM)_____ ON THIS DATE: _____(DATE)_____ AND THE PAVING SECTIONS DESIGNED IN ACCORDANCE WITH THE CURRENT CITY OF ROUND ROCK DESIGN CRITERIA. THE PAVING SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS:

STREET NAME	STATIONING	FLEX. BASE THICKNESS	HMAC THICKNESS	LIME STAB. THICKNESS

THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE ACCEPTED GEOTECHNICAL REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISION OF THE CONSTRUCTION PLANS AND ADDENDUM TO ANY ACCEPTED GEOTECHNICAL REPORT.

9. WHERE PLASTICITY INDEX (PI) IS OVER 20, SUBGRADES MUST BE STABILIZED UTILIZING A METHOD ACCEPTABLE TO THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT. THE GEOTECHNICAL ENGINEER SHALL RECOMMEND AN APPROPRIATE SUBGRADE STABILIZATION IF SULFATES ARE DETERMINED TO BE PRESENT. WHEN UTILIZING LIME FOR SOIL STABILIZATION, PLACEMENT SHALL BE IN THE FORM OF LIME SLURRY, NOT PELLETS.

10.

FIELD DENSITY CONTROL REQUIREMENTS		
SOIL DESCRIPTION	DENSITY, PERCENT	MOISTURE CONTENT
	TEX-115-E	
PI<15	>=98% Da*AND<=105% Da	N/A
15<=PI<=35	>=98% Da*AND<=102% Da	<=Wopt+3%
PI>35	>=98% Da*AND<=100% Da	<=Wopt+3%

TRENCH SAFETY NOTES

1. IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH, IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL, SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT SHALL BE PROVIDED AS PART OF A PACKAGE REQUIRED PRIOR TO THE PRE-CONSTRUCTION MEETING AND ANY CONSTRUCTION ACTIVITIES.
2. IN ACCORDANCE WITH THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN PERSONS ARE IN TRENCHES 4 FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED IN SUCH A MANNER AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
3. IF TRENCH SAFETY SYSTEM DETAILS WERE NOT PROVIDED IN THE PLANS BECAUSE TRENCHES WERE ANTICIPATED TO BE LESS THAN 5 FEET IN DEPTH BUT, DURING CONSTRUCTION, IT IS FOUND THAT TRENCHES ARE IN FACT 5 FEET OR MORE IN DEPTH (OR) TRENCHES LESS THAN 5 FEET IN DEPTH ARE IN AN AREA WHERE HAZARDOUS GROUND MOVEMENT IS EXPECTED, ALL CONSTRUCTION SHALL CEASE, THE TRENCHED AREA SHALL BE BARRICADED AND THE DESIGN ENGINEER NOTIFIED IMMEDIATELY. CONSTRUCTION SHALL NOT RESUME UNTIL APPROPRIATE TRENCH SAFETY SYSTEM DETAILS, AS DESIGNED BY A PROFESSIONAL ENGINEER, ARE SUBMITTED TO THE CITY OF ROUND ROCK FOR REVIEW AND APPROVAL.

WATER AND WASTEWATER NOTES

1. PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 200), OR DUCTILE IRON (AWWA
C- 100, MIN. CLASS 200). WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR 9).
2. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 150), SDR26 HIGHER PRESSURE RATED (160 PSI), OR DUCTILE IRON (AWWA C-100, MIN. CLASS 200). PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE SDR26 PVC, PVC (ASTM D2241 OR D3034, MAX. DR-26), DUCTILE IRON (AWWA C-100, MIN. CLASS 200).
3. UNLESS OTHERWISE ACCEPTED BY THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT, MINIMUM DEPTH OF COVER FOR ALL LINES OUTSIDE OF THE PAVED AREAS SHALL BE 42" BELOW FINISHED GRADE AND 30"BELOW SUBGRADE FOR ALL LINES LOCATED IN PAVED AREAS.
4. ALL FIRE HYDRANT AND SPRINKLER LEADS SHALL BE DUCTILE IRON PIPE (AWWA C-100, MIN. CLASS 200).
5. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH A MINIMUM OF 8-MIL POLYETHYLENE AND SEALED WITH DUCT TAPE OR EQUAL ACCEPTED BY THE CITY OF ROUND ROCK CIVIL INSPECTOR.
6. THE CONTRACTOR SHALL CONTACT THE CITY OF ROUND ROCK INSPECTOR TO COORDINATE UTILITY TIE-INS AND NOTIFY THEM AT LEAST 48 HOURS PRIOR TO CONNECTING TO ANY EXISTING LINES.
7. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. ALL MANHOLES LOCATED OUTSIDE OF THE PAVEMENT SHALL HAVE BOLTED COVERS. CORE CONNECTIONS TO FIBERGLASS MANHOLES ARE PROHIBITED.
8. THE CONTRACTOR MUST OBTAIN A BULK WATER PERMIT OR PURCHASE AND INSTALL A WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST ALWAYS BE POSSESSED BY ANY PARTIES WHO UTILIZE WATER. CONTACT WATER DISTRIBUTION AT (512) 801-4435 FOR ADDITIONAL INFORMATION.
9. LINE FLUSHING, OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER, MUST BE SCHEDULED A MINIMUM (10) DAYS IN ADVANCE WITH THE CITY OF ROUND ROCK CIVIL INSPECTOR.
10. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM STERILIZATION OF ALL POTABLE WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING TEST GAUGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTING MATERIAL), AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY THE CITY OF ROUND ROCK CIVIL INSPECTOR. WATER SAMPLES WILL BE COLLECTED BY THE CITY OF ROUND ROCK TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PPM. WHERE MEANS OF FLUSHING IS NECESSARY, THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FLUSHING DEVICES AND REMOVE SAID DEVICES PRIOR TO FINAL ACCEPTANCE BY THE CITY OF ROUND ROCK.
11. SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL. AT THE CONTRACTOR'S REQUEST, AND IN THEIR PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF ROUND ROCK NOT LESS THAN (24) HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY. THE CONTRACTOR SHALL SUPPLY A CHECK OR MONEY ORDER, PAYABLE TO THE CITY OF ROUND ROCK, TO COVER THE FEE CHARGED FOR TESTING EACH WATER SAMPLE. FEE AMOUNTS MAY BE OBTAINED BY CONTACTING THE CITY OF ROUND ROCK ENVIRONMENTAL SERVICES LABORATORY AT (512) 218-5561 OR WATERLAB@ROUNDROCKTEXAS.GOV.
12. THE CONTRACTOR, AT THEIR EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATERLINES CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES, AND LABOR NECESSARY TO PERFORM THESE TESTS. QUALITY AND PRESSURE TESTING SHALL BE MONITORED BY THE CITY OF ROUND ROCK CIVIL INSPECTOR.
13. THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY OF ROUND ROCK CIVIL INSPECTOR AND PROVIDE NO LESS THAN (24) HOURS OF NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING, OR PRESSURE TESTING.
14. THE CONTRACTOR (OR SUBCONTRACTORS) SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS DIRECTED TO DO SO BY CITY OF ROUND ROCK PERSONNEL.
15. ALL VALVE BOXES AND COVERS SHALL BE CAST IRON.
16. ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED AS FOLLOWS:
- WATER SERVICE -"W" ON TOP OF CURB (BLUE COLOR)
- WASTEWATER SERVICE -"S" ON TOP OF CURB
- VALVE -"V" ON FACE OF CURB
17. TOOLS FOR MARKING THE CURB SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF MARKING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF MARKING SHALL BE AS SPECIFIED BY THE DESIGN ENGINEER AND APPROVED BY THE CITY OF ROUND ROCK.
18. CONTACT THE CITY OF ROUND ROCK UTILITIES AND ENVIRONMENTAL SERVICES (UES) DEPARTMENT FOR ASSISTANCE IN DETERMINING EXISTING WATER AND WASTEWATER LOCATIONS.
19. THE CITY OF ROUND ROCK FIRE DEPARTMENT SHALL BE NOTIFIED (48) HOURS PRIOR TO THE TESTING OF ANY BUILDING SPRINKLER PIPING SO THAT THEY MAY BE PRESENT TO MONITOR SUCH TESTING.
20. SAND, AS DESCRIBED IN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND, IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION:

SIEVE SIZE	PERCENT RETAINED BY WEIGHT
1/2"	0
3/8"	0-2
#4	40-85
#10	95-100

21. THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS (7AM -4 PM) AND POSSIBLY BETWEEN 12 AM AND 6 AM.
22. ALL WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS, 30 TAC CHAPTER 213 AND 217, AS APPLICABLE. ALL WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH TCEQ REGULATIONS, 30 TAC CHAPTER 290. WHENEVER TCEQ AND CITY OF ROUND ROCK SPECIFICATIONS CONFLICT, THE MORE STRINGENT SHALL APPLY.

TRAFFIC MARKING NOTES

1. ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS, OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (TMUTCD), LATEST EDITION.
2. ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS, AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND, THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

EROSION AND SEDIMENTATION CONTROL NOTES

1. EROSION CONTROL MEASURES, SITE WORK, AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK DESIGN AND CONSTRUCTION STANDARDS (DACS) AND CODE OF ORDINANCES.
2. ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES, OR GROUND COVER THAT IS SUITABLE TO THE AREA AND THE SEASON IN WHICH THEY ARE APPLIED.
3. SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS, AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. INSTALLATION AND CONDITION SHALL BE REGULARLY INSPECTED BY THE CITY OF ROUND ROCK FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE CITY ENGINEER, THEY ARE WARRANTED.
4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL REVEGETATION HAS BEEN ESTABLISHED AND APPROVAL RECEIVED FROM THE CIVIL INSPECTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE ALL ONCE APPROVED TO DO SO BY THE CIVIL INSPECTOR.
5. ALL MUD, DIRT, ROCKS, DEBRIS, ETC., SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.

ROUND ROCK FIRE DEPARTMENT NOTES

1. GENERAL: ALL DEVELOPMENTS SHALL COMPLY WITH THE CURRENT FIRE CODE, APPENDICES, AND ANY LOCAL AMENDMENTS AS ADOPTED BY THE CITY OF ROUND ROCK.
2. COMBUSTIBLE MATERIALS ON-SITE: ALL-WEATHER ACCESS ROADS/DRIVES (ASPHALT/CONCRETE CAPABLE OF SUPPORTING 80,000 LB. APPARATUS LOADING) SHALL BE CONSTRUCTED, AND ALL WATER LINES SHALL BE TESTED AND FIRE HYDRANTS IN-SERVICE, PRIOR TO BRINGING COMBUSTIBLE MATERIALS (WOOD, PACKAGING, PLASTICS, ETC.) ON ANY JOB SITE. BASE MATERIAL IS NOT ACCEPTABLE FOR FIRE ACCESS ROADS/DRIVES.
3. FIRE LANES: FIRE APPARATUS ACCESS ROADS/DRIVES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF (20) FEET. WHERE TRAFFIC IS TWO-WAY DIRECTIONAL, BUILDINGS EXCEED (30) FEET OR THREE STORIS IN HEIGHT, TOTAL BUILDING AREA EXCEEDS 62,000 SQUARE FEET, OR WHERE HYDRANTS ARE LOCATED ALONG THE FIREACCESS ROADS, THE MINIMUM WIDTH SHALL BE (26) FEET. IF RAISED CURBING OR MEDIANS COMPROMISE MINIMUM WIDTH, CURBING SHALL BE MOUNTABLE AND RAISED AREA SHALL CONTAIN NO OBSTRUCTIONS SUCH AS LANDSCAPING, SIGNAGE, GROUND-MOUNTED EQUIPMENT, ETC.
4. ALL-WEATHER SURFACE: THE PAVEMENT STRUCTURE FOR FIRE ACCESS ROADS/DRIVES MUST BE ALL-WEATHER SURFACE (ASPHALT/CONCRETE) DESIGNED TO SUPPORT AN 80,000 LB. APPARATUS LOADING.
5. GRADE: THE GRADE THROUGH THE FIRE LANE ACCESS SHALL NOT EXCEED 7% AND NO GRADE BREAKS SHALL EXCEED 3%.
6. TURNING RADII: TURNING RADII SHALL BE A MINIMUM OF 25-FT INSIDE AND 50-FT OUTSIDE AS MEASURED FROM FACE-OF-CURB (WHEN PRESENT) OR ON DRIVABLE, PAVED SURFACE.
7. VERTICAL CLEARANCE: THE VERTICAL CLEARANCE OVER A DESIGNATED FIRE LANE SHALL NOT BE LESS THAN 13'-6".
8. EMERGENCY RESPONDER RADIO COVERAGE: ADEQUATE EMERGENCY RESPONDER RADIO COVERAGE SHALL BE REQUIRED FOR ALL NEW BUILDINGS. A PRE-ENHANCEMENT RADIO SURVEY SHALL BE REQUIRED AT THE 80% CONSTRUCTION PHASE FOR CERTAIN BUILDING TYPES BASED ON THE SIZE OF THE BUILDING. PRE-ENHANCEMENT RADIO SURVEY REQUIREMENTS INCLUDE THE FOLLOWING BUILDING TYPES:
- GREATER THAN (5) STORIES
- BELOW GRADE PLANE
- WOOD FRAMED CONSTRUCTION GREATER THAN 50,000 SF
- CONCRETE OR METAL FRAMED CONSTRUCTION GREATER THAN 25,000 SF
9. REQUIRED FIRE FLOWS: A PROJECTS MINIMUM FIRE FLOW FOR THE LARGEST BUILDING SHALL BE MEASURED AT (20) PSI RESIDUAL PRESSURE THAT IS AVAILABLE FOR FIREFIGHTING PER THE FLOWS ON TABLES B105.1 OR B105.2 OF THE INTERNATIONAL FIRE CODE (IFC), APPENDIX B. DISCLAIMER: IT IS THE RESPONSIBILITY OF THE DEVELOPER AND ENGINEER TO ENSURE THESE MINIMUM FIRE FLOW REQUIREMENTS FOR THE SITE ARE MET VIA FLOW TESTING AND WATER MODELING.
10. SPRINKER SYSTEMS: BUILDINGS EQUIPPED WITH ANY FIRE DEPARTMENT CONNECTIONS (FDC) SHALL HAVE A FIRE HYDRANT LOCATED WITHIN 100' OF THE FDC (REMOTE FDC IS PERMISSIBLE). FDC SHALL BE IDENTIFIED ON THE SITE VIA SIGNAGE.
11. GATES: IF GATES ARE PROVIDED ALONG ANY FIRE ACCESS ROAD/DRIVE, MINIMUM PASSABLE WIDTH SHALL NOT BE LESS THAN (20) FEET AND SHALL COMPLY WITH IFC APPENDIX D AND ROUND ROCK CODE OF ORDINANCES REGARDING EMERGENCY ACCESS SYSTEMS. GATES WILL REQUIRE A KNOX-BOX®KEY BOX THAT SHALL CONTAIN KEYS TO GAIN NECESSARY ACCESS AS REQUIRED BY THE FIRE CODE OFFICIAL.

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY PAUL H. MARTIN III, P.E. 104707 ON 11/10/2025. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Issue Date: November 6, 2025

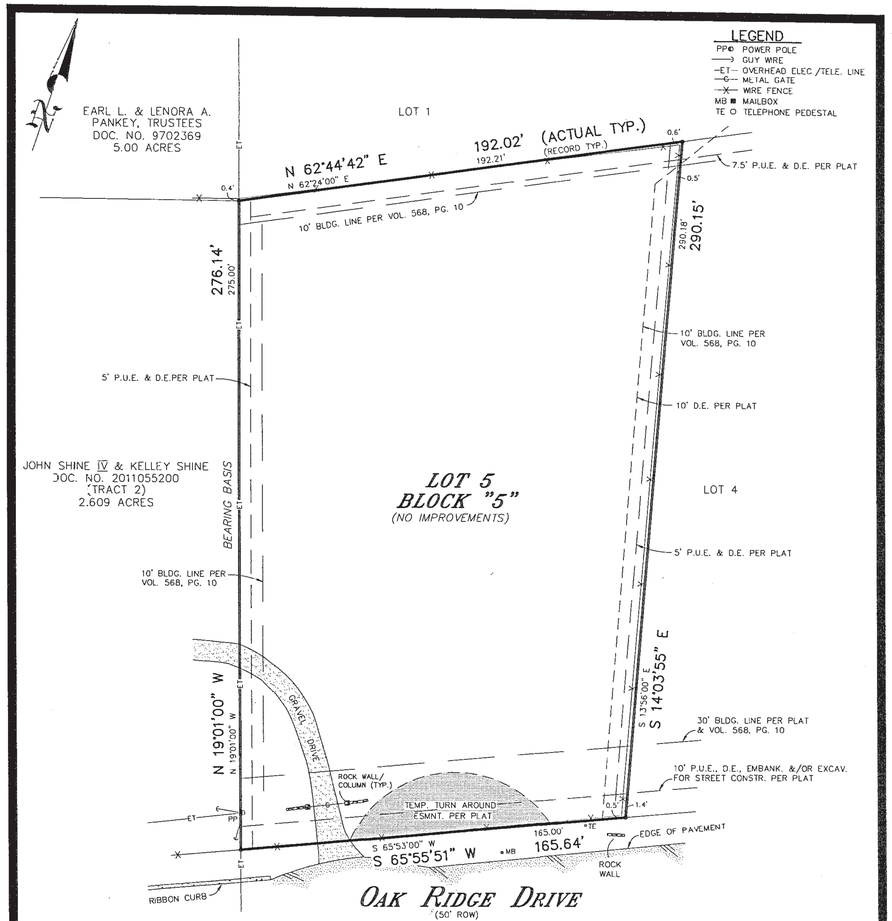
Revisions

No.	Date	Description
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title:
STANDARD NOTES

Sheet No.:
C1.0



PROPERTY SUBJECT TO RESTRICTIVE COVENANTS AND EASEMENT RIGHTS RECORDED IN CAB. C, SLIDES 129–132, PLAT RECORDS, VOL. 554, PG. 135, VOL. 568, PG. 10, DEED RECORDS.

PROPERTY SUBJECT TO BLANKET ELEC./TELE. TRANS. & DISTR. LINE ESMNTS. GRANTED TO P.E.C., INC. RECORDED IN VOL. 577, PG. 685 AND VOL. 635, PG. 643, DEED RECORDS.

BLANKET PIPE LINE ESMNT. GRANTED TO LONE STAR GAS CO. RECORDED IN VOL. 427, PG. 229, DEED RECORDS, DOES NOT APPEAR TO TRAVERSE THE PROPERTY AS SHOWN ON THE GREAT OAKS SUBDIVISION, SECTION II PLAT RECORDED IN CAB. C, SLIDES 129–132, PLAT RECORDS.

** 0.2% ANNUAL CHANCE FLOOD HAZARD*

PLAT OF SURVEY

Survey No. 23173–A — SCALE: 1" = 40' — GF 1008802

Said lot is in Zone X as identified by the Federal Emergency Management Agency on Community Panel No. 48491C 0488F * Dated: DEC. 20, 2019

LOT NO. 5 BLOCK NO. "5"

ADDITION OR SUBDIVISION GREAT OAKS SUBDIVISION, SECTION II, CABINET C, SLIDES 129–132, PLAT RECORDS

STREET ADDRESS 3904 OAK RIDGE DRIVE CITY ROUND ROCK COUNTY WILLIAMSON

SURVEY FOR JOHN & KELLEY SHINE REFERENCE JOHN & KELLEY SHINE

TO: GRACY TITLE COMPANY & STEWART TITLE GUARANTY COMPANY

STATE OF TEXAS, COUNTY OF TRAVIS

I HEREBY CERTIFY THAT THE ABOVE SURVEY WAS MADE THIS DAY ON THE GROUND AND IS TRUE AND CORRECT, AND THAT THERE ARE NO DISCREPANCIES, CONFLICTS, SHORTAGES IN AREA, ENCROACHMENTS, VISIBLE UTILITY LINES OR ROADS IN PLACE EXCEPT AS SHOWN HEREON AND SAID PROPERTY HAS ACCESS TO A DEDICATED ROADWAY, EXCEPT AS SHOWN HEREON.

All corners are 1/2–inch iron rod found unless otherwise noted. To the lien holders and/or the owners of the premises surveyed.

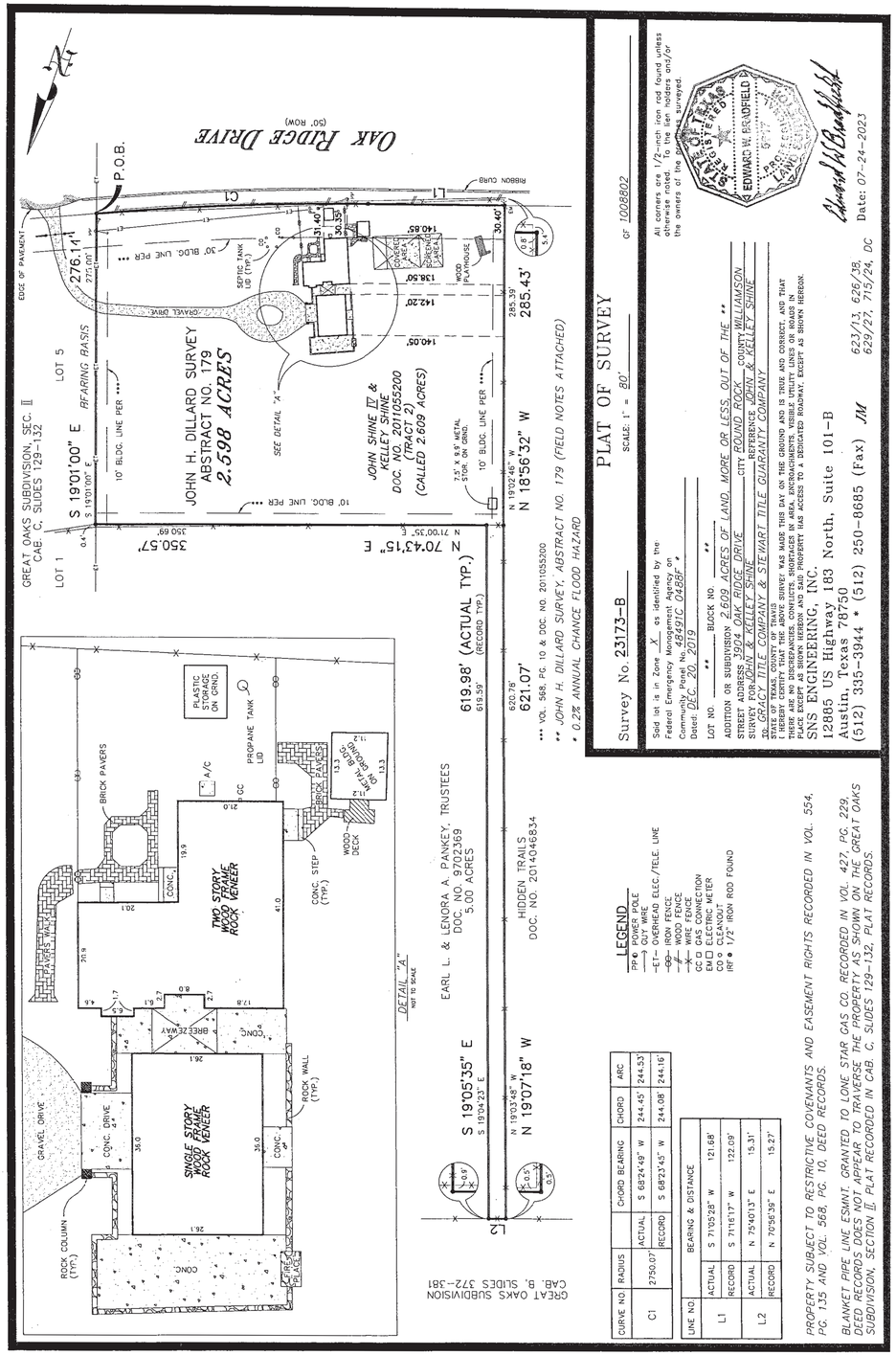
EDWARD W. BRADFIELD — REGISTERED — PROFESSIONAL — LAND SURVEYOR — STATE OF TEXAS

Edward W Bradfield

Date: 07–24–2023

SNS ENGINEERING, INC.
12885 US Highway 183 North, Suite 101–B
Austin, Texas 78750
(512) 335–3944 * (512) 250–8685 (Fax) JM

623/13, 626/38, 629/27, 715/24, DC



CURVE NO	RADIUS		CHORD BEARING	CHORD	ARC
C1	2750.07'	ACTUAL	S 68°24'49" W	244.45'	244.53'
		RECORD	S 68°23'45" W	244.08'	244.16'

LINE NO		BEARING & DISTANCE	
L1	ACTUAL	S 71°05'28" W	121.68'
	RECORD	S 71°16'17" W	122.09'
L2	ACTUAL	N 75°40'13" E	15.31'
	RECORD	N 75°58'39" E	15.27'

PROPERTY SUBJECT TO RESTRICTIVE COVENANTS AND EASEMENT RIGHTS RECORDED IN VOL. 554, PG. 135 AND VOL. 568, PG. 10, DEED RECORDS.

BLANKET PIPE LINE ESMNT. GRANTED TO LONE STAR GAS CO. RECORDED IN VOL. 427, PG. 229, DEED RECORDS DOES NOT APPEAR TO TRAVERSE THE PROPERTY AS SHOWN ON THE GREAT OAKS SUBDIVISION, SECTION II PLAT RECORDED IN CAB. C, SLIDES 129–132, PLAT RECORDS.

PLAT OF SURVEY

Survey No. 23173–B — SCALE: 1" = 20' — GF 1008802

Said lot is in Zone X as identified by the Federal Emergency Management Agency on Community Panel No. 48491C 0488F * Dated: DEC. 20, 2019

LOT NO. ** BLOCK NO. **

ADDITION OR SUBDIVISION 2.609 ACRES OF LAND, MORE OR LESS, OUT OF THE **

STREET ADDRESS 3904 OAK RIDGE DRIVE CITY ROUND ROCK COUNTY WILLIAMSON

SURVEY FOR JOHN & KELLEY SHINE REFERENCE JOHN & KELLEY SHINE

TO: GRACY TITLE COMPANY & STEWART TITLE GUARANTY COMPANY

STATE OF TEXAS, COUNTY OF TRAVIS

I HEREBY CERTIFY THAT THE ABOVE SURVEY WAS MADE THIS DAY ON THE GROUND AND IS TRUE AND CORRECT, AND THAT THERE ARE NO DISCREPANCIES, CONFLICTS, SHORTAGES IN AREA, ENCROACHMENTS, VISIBLE UTILITY LINES OR ROADS IN PLACE EXCEPT AS SHOWN HEREON AND SAID PROPERTY HAS ACCESS TO A DEDICATED ROADWAY, EXCEPT AS SHOWN HEREON.

All corners are 1/2–inch iron rod found unless otherwise noted. To the lien holders and/or the owners of the premises surveyed.

EDWARD W. BRADFIELD — REGISTERED — PROFESSIONAL — LAND SURVEYOR — STATE OF TEXAS

Edward W Bradfield

Date: 07–24–2023

SNS ENGINEERING, INC.
12885 US Highway 183 North, Suite 101–B
Austin, Texas 78750
(512) 335–3944 * (512) 250–8685 (Fax) JM

623/13, 626/38, 629/27, 715/24, DC

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Castle Garden Event Center
Site Development

3904 Oak Ridge Dr.
Round Rock, Tx. 78681

PAUL H. MARTIN III — 104704 — REGISTERED PROFESSIONAL ENGINEER — STATE OF TEXAS

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY PAUL H. MARTIN III, P.E. 104707 ON 11/10/2025. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Issue Date: November 6, 2025

Revisions

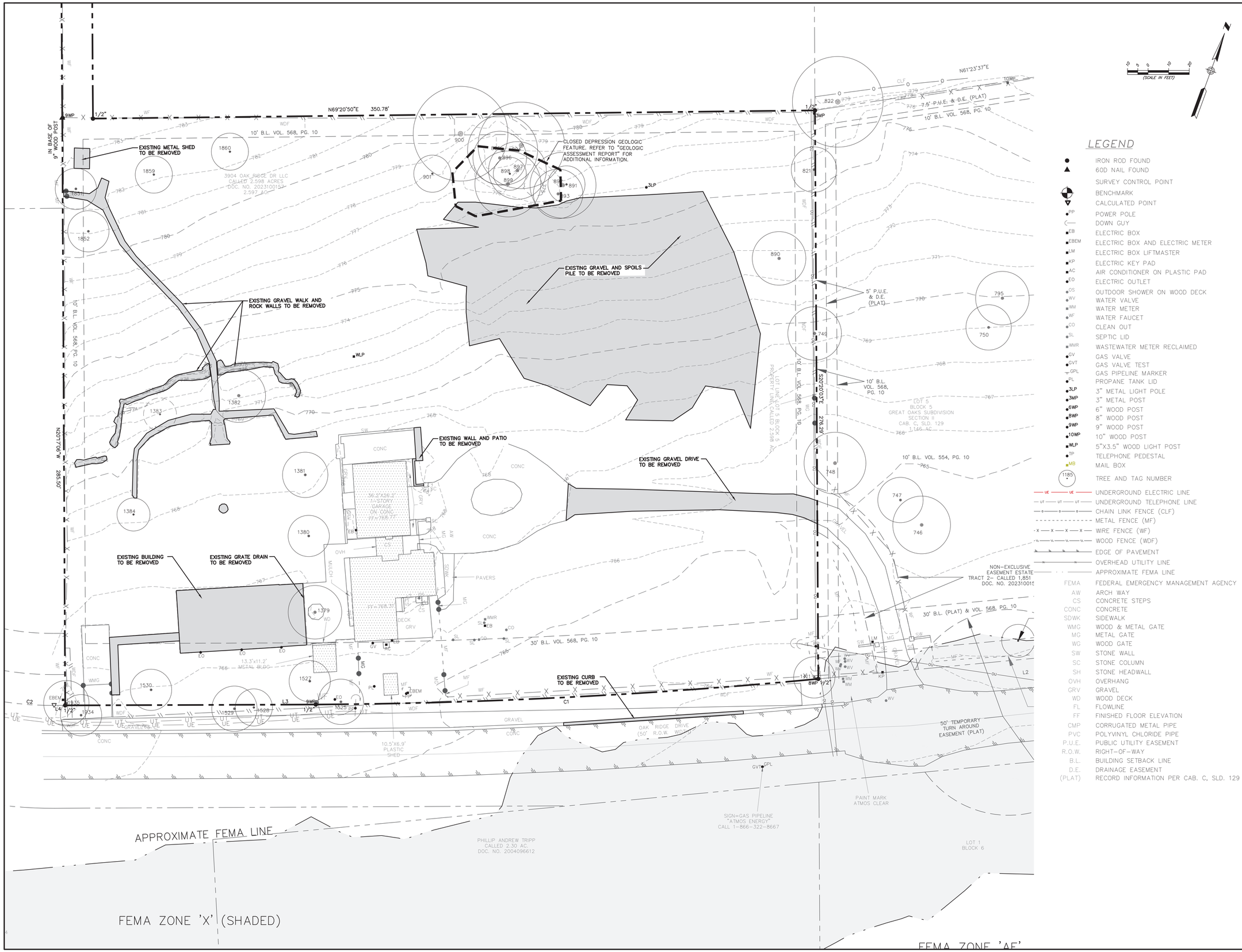
No.	Date	Description
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139 — Drawn By: TH

Designed By: PHM — Checked By: PHM

Sheet Title: FINAL PLAT

Sheet No.: C1.1



LEGEND

- IRON ROD FOUND
- 60D NAIL FOUND
- SURVEY CONTROL POINT
- BENCHMARK
- CALCULATED POINT
- PP — POWER POLE
- DOWN GUY
- EB — ELECTRIC BOX
- EBEM — ELECTRIC BOX AND ELECTRIC METER
- LM — ELECTRIC BOX LIFTMASTER
- KP — ELECTRIC KEY PAD
- AC — AIR CONDITIONER ON PLASTIC PAD
- EO — ELECTRIC OUTLET
- OS — OUTDOOR SHOWER ON WOOD DECK
- WV — WATER VALVE
- WM — WATER METER
- WF — WATER FAUCET
- CO — CLEAN OUT
- SL — SEPTIC LID
- WMR — WASTEWATER METER RECLAIMED
- GV — GAS VALVE
- GVT — GAS VALVE TEST
- GPL — GAS PIPELINE MARKER
- PL — PROPANE TANK LID
- 3LP — 3" METAL LIGHT POLE
- 3MP — 3" METAL POST
- 6WP — 6" WOOD POST
- 8WP — 8" WOOD POST
- 9WP — 9" WOOD POST
- 10WP — 10" WOOD POST
- WLP — 5"X3.5" WOOD LIGHT POST
- TP — TELEPHONE PEDESTAL
- MB — MAIL BOX
- 1185 — TREE AND TAG NUMBER
- UE — UNDERGROUND ELECTRIC LINE
- UT — UNDERGROUND TELEPHONE LINE
- CHAIN LINK FENCE (CLF)
- METAL FENCE (MF)
- WIRE FENCE (WF)
- WOOD FENCE (WDF)
- EDGE OF PAVEMENT
- OVERHEAD UTILITY LINE
- APPROXIMATE FEMA LINE
- FEMA — FEDERAL EMERGENCY MANAGEMENT AGENCY
- AW — ARCH WAY
- CS — CONCRETE STEPS
- CONC — CONCRETE
- SDWK — SIDEWALK
- WMG — WOOD & METAL GATE
- MG — METAL GATE
- WG — WOOD GATE
- SW — STONE WALL
- SC — STONE COLUMN
- SH — STONE HEADWALL
- OVH — OVERHANG
- GRV — GRAVEL
- WD — WOOD DECK
- FL — FLOWLINE
- FF — FINISHED FLOOR ELEVATION
- CMP — CORRUGATED METAL PIPE
- PVC — POLYVINYL CHLORIDE PIPE
- P.U.E. — PUBLIC UTILITY EASEMENT
- R.O.W. — RIGHT-OF-WAY
- B.L. — BUILDING SETBACK LINE
- D.E. — DRAINAGE EASEMENT
- (PLAT) — RECORD INFORMATION PER CAB. C, SLD. 129

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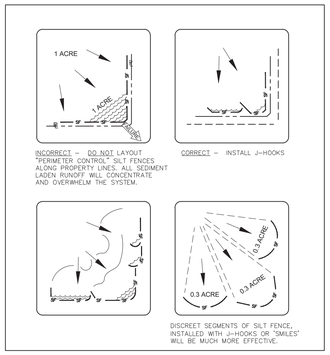
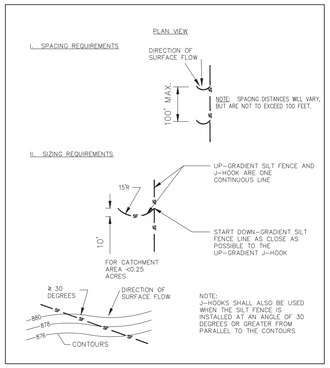
5	-	-
6	-	-

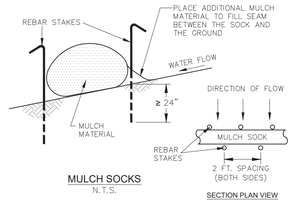
M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

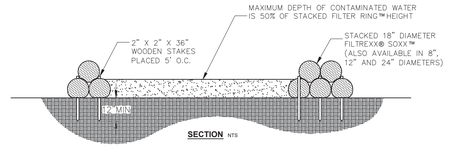
Sheet Title: EXISTING CONDITIONS & DEMO PLAN

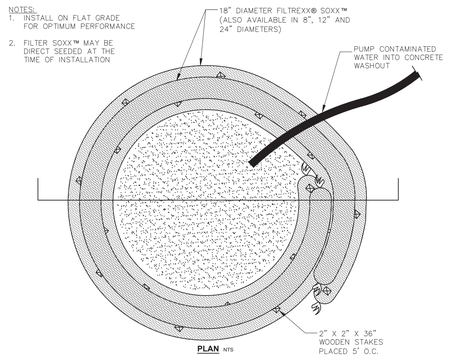
Sheet No.: C1.2











EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE–CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL.
3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
4. A PRE–CONSTRUCTION CONFERENCE SHALL BE HELD ON–SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK.
5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY AUTHORIZED CITY STAFF. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
6. THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR WITH EITHER A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), CERTIFIED EROSION, SEDIMENT AND STORMWATER– INSPECTOR (CESSWI) OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS; ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY INSPECTOR FOR FURTHER INVESTIGATION.
9. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
   A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES.
      - TOPSOIL SALVAGED FROM THE EXISTING SITE IS ENCOURAGED FOR USE, BUT IT SHOULD MEET THE STANDARDS SET FORTH IN 601S.
      - AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE CRITERIA OF STANDARD SPECIFICATION 601S BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.
      - SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL–BLENDED MATERIAL.

THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

TEMPORARY VEGETATIVE STABILIZATION

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH OR INCLUDE A COOL SEASON COVER CROP: WESTERN WHEATGRASS (pascopyrum smithii) AT 5.6 POUNDS PER ACRE, OATS (avena sativa) AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAIN (secale cereale) AT 45 POUNDS PER ACRE. CONTRACTOR MUST ENSURE THAT ANY SEED APPLICATION REQUIRING A COOL SEASON COVER CROP DOES NOT UTILIZE ANNUAL RYEGRASS (lolium multiflorum) OR PERENNIAL RYEGRASS (lolium perenne). COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE OR A NATIVE PLANT SEED MIX CONFORMING TO ITEMS 604S OR 609S.
   A. FERTILIZER SHALL BE APPLIED ONLY IF WARRANTED BY A SOIL TEST AND SHALL CONFORM TO ITEM NO. 606S, FERTILIZER. FERTILIZATION SHOULD NOT OCCUR WHEN RAINFALL IS EXPECTED OR DURING SLOW PLANT GROWTH OR DORMANCY. CHEMICAL FERTILIZER MAY NOT BE APPLIED IN THE CRITICAL WATER QUALITY ZONE.
   B. HYDROMULCH SHALL COMPLY WITH TABLE 1, BELOW.
   C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.
   D. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, AND STANDARD SPECIFICATIONS 604S OR 609S.

Table 1: Hydromulching for Temporary Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
100% or any blend of wood, cellulose, straw and/or cotton plant material (except no mulch shall exceed 30% paper)	70% or greater Wood/Straw 30% or less paper or natural fibers	0-3 months	Moderate slopes: from flat to 3:1	1500 to 2000 lbs per acre

PERMANENT VEGETATIVE STABILIZATION

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE–HALF (½) INCH AND THE AREA SHALL BE RE–SEEDED IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDAGRASS OR NATIVE SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM–SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEMS 604S OR 609S.
   A. FERTILIZER FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER. APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY–OWNED AND MANAGED PROPERTY REQUIRES THE YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY OF AUSTIN'S IPM COORDINATOR.
   B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.
   C. WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER UNIFORMLY TO THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL. MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE CHAPTER 6–4 (WATER CONSERVATION), AT RATES AND FREQUENCIES DETERMINED BY A LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE AUSTIN WATER UTILITY AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVES.
   D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95 PERCENT FOR THE NON–NATIVE MIX, AND 95 PERCENT COVERAGE FOR THE NATIVE MIX SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR STABILITY MUST BE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 16 SF.
   E. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, ITEMS 604S OR 609S.

Table 2: Hydromulching for Permanent Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
Bonded Fiber Matrix (BFM)	80% Organic defibrated fibers 10% Tackifier	6 months	On slopes up to 2:1 and erosive soil conditions	2500 to 4000 lbs per acre (see manufacturer's recommendations)
Fiber Reinforced Matrix (FRM)	65% Organic defibrated fibers 25% Reinforcing Fibers or less 10% Tackifier	up to 12 months	On slopes up to 1:1 and erosive soil conditions	3000 to 4500 lbs per acre (see manufacturer's recommendations)

STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
2. PROTECTIVE FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION.
3. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
4. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIP LINES.
5. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES, AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE), OR, FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
   a. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
   b. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL), OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ARBORIST;
   c. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
   d. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
6. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES:
   a. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEHIND THE AREA IN QUESTION;
   b. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIP LINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZE ROOT DAMAGE);
   c. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEEN THE FENCE AND THE BUILDING;
   d. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY INSPECTOR TO DISCUSS ALTERNATIVES.

   NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.
7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED–ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
8. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACK FILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACK FILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
10. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
11. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
12. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.).
13. ALL FINISHED PRUNING SHALL BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE CITY ARBORIST).
14. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIP LINES, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.
15. WHERE ANY OF THE ABOVE EXCEPTIONS TO FENCING AT A TREE'S DRIP LINE RESULT IN AREAS OF UNPROTECTED ROOT ZONES (UNDER DRIP LINES) WHERE HEAVY TRAFFIC IS EXPECTED, COVER THOSE AREAS WITH 4 INCHES OR ORGANIC MULCH OR GRAVEL TO MINIMIZE SOIL COMPACTION.
16. ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHOULD BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
17. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
18. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE ROOT ZONE.

CURB INLET PROTECTION SPECS & CALCS

TEMPORARY SEDIMENT BARRIER SHALL BE MADE OF WOVEN OR NON–WOVEN MATERIAL.

DRAINAGE AREA – LESS THAN TWO (2) ACRES.

FABRIC WEIGHT:	ASTM D3776	GREATER THAN OR EQUAL TO 3.0 OZ/S.Y.
UV STABILITY	ASTM D4355	70% STRENGTH RETAINED MIN. AFTER 500 HOURS IN XENON ARC DEVICE
MULLEN BURST	ASTM D3786	GREATER THAN OR EQUAL TO 120 STRENGTH POUNDS PER SQUARE INCH
WATER FLOW	ASTM D4491	GREATER THAN OR EQUAL TO 375 RATE GALLONS/MIN./S.F.

THE MATERIAL SHALL HAVE A MAXIMUM EXPECTED USEFUL LIFE OF 18 MONTHS.

THE INLET PROTECTION DEVICE SHOULD BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN OUT AND DISPOSAL OF TRAPPED SEDIMENT WHILE MINIMIZING INTERFERENCE WITH CONSTRUCTION ACTIVITIES.

THEY SHOULD NOT ALLOW MORE THAN 4 INCHES OF STANDING WATER IN THE R.O.W. OR DAMAGE TO THE STRUCTURE OR ADJACENT AREAS.

THE FABRIC SHOULD COMPLETELY COVER THE OPENING OF THE INLET AND THE DEVICE SHALL NOT HAVE PROTRUDING PARTS THAT COULD BE A TRAFFIC OR PEDESTRIAN HAZARD. OVERLAP FABRIC A MINIMUM OF 3 INCHES.

THE INLET DEVICE SHALL BE ATTACHED IN A WAY THAT THEY CAN EASILY BE REMOVED AND ARE NOT SECURED OR ATTACHED BY THE USE OF SAND BAGS.

ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 2 INCHES OR ONE–THIRD THE HEIGHT OF THE INLET THROAT, AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.

APPROVED INLET PROTECTION SHALL BE GEOCURVE, OR APPROVED EQUAL. SEE DETAIL, THIS SHEET.

GENERAL SEQUENCE OF CONSTRUCTION

1. THE CONTRACTOR SHALL GENERALLY CONFORM TO THIS SEQUENCE OF CONSTRUCTION.
2. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION, INITIATE TREE MITIGATION MEASURES AND CONDUCT "PRE – CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE).
3. COORDINATE WITH ALL LAND OWNERS REGARDING ACCESS. INSTALL FENCING AND GATES AS NEEDED FOR SECURE CONSTRUCTION ACCESS.
4. PREPARE A SECURE STAGING AREA AS SHOWN ON THE EROSION CONTROL PLAN. STAGING AREA SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT.
5. THE CONTRACTOR SHALL CONTACT THE CITY 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON–SITE PRECONSTRUCTION MEETING.
6. CONTACT ALL REQUIRED ENTITIES, INCLUDING THE CITY OF ROUND ROCK, ONCOR, ATMOS, MANVILLE WSC AND OTHERS DISCUSSED IN THE PRECONSTRUCTION MEETING PRIOR TO CONSTRUCTION.
7. THE GENERAL CONTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
8. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.
9. CONSTRUCT PHASE 1 ACTIVITIES.
10. COMPLETE CONSTRUCTION AND COMPLETE REVEGETATION OF THE SITE. REMOVE TEMPORARY TRAFFIC CONTROLS AS NEEDED.
11. RESTORE DISTURBED GROUND TO EXISTING ELEVATIONS AND REVEGETATE AS SHOWN ON THE PLANS.
12. CONSTRUCT PHASE 2 ACTIVITIES.

10\. COMPLETE CONSTRUCTION AND COMPLETE REVEGETATION OF THE SITE. REMOVE TEMPORARY TRAFFIC CONTROLS AS NEEDED.

11\. 11. RESTORE DISTURBED GROUND TO EXISTING ELEVATIONS AND REVEGETATE AS SHOWN ON THE PLANS.

12\. REPLACE FENCES AND GATES TO ORIGINAL LOCATIONS THAT WERE REMOVED DURING CONSTRUCTION.

13\. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS.

SILT FENCE PLACEMENT FOR PERIMETER CONTROL

INCORRECT – DO NOT LAYOUT "PERIMETER CONTROL" SILT FENCES ALONG PROPERTY LINES. ALL SEDIMENT LADEN RUNOFF WILL CONCENTRATE AND OVERWHELM THE SYSTEM.

CORRECT – INSTALL J–HOOKS

DISCREET SEGMENTS OF SILT FENCE, INSTALLED WITH J–HOOKS OR 'SMILES' WILL BE MUCH MORE EFFECTIVE.

NOTE: SPACING DISTANCES WILL VARY, BUT ARE NOT TO EXCEED 100 FEET.

NOTE: J–HOOKS SHALL ALSO BE USED WHEN THE SILT FENCE IS INSTALLED AT AN ANGLE OF 30 DEGREES OR GREATER FROM PARALLEL TO THE CONTOURS

MULCH SOCK DETAIL

MULCH SOCKS
N.T.S.

SECTION PLAN VIEW

MULCH SOCK SPECIFICATIONS

APPLICATION

FILTREXX SILTSOXX (OR APPROVED EQUAL) ARE TO BE INSTALLED DOWN SLOPE OF ANY DISTURBED AREA REQUIRING EROSION AND SEDIMENT CONTROL AND FILTRATION OF SOLUBLE POLLUTANTS FROM RUNOFF. SILTSOXXTM ARE EFFECTIVE WHEN INSTALLED PERPENDICULAR TO SHEET FLOW. ACCEPTABLE APPLICATIONS INCLUDE:

- SITE PERIMETERS AND INTERMEDIATE SHEET FLOW TREATMENT APPLICATIONS.
- ABOVE AND BELOW DISTURBED AREAS SUBJECT TO SHEET RUNOFF, INTERRILL AND RILL EROSION.
- ABOVE AND BELOW EXPOSED AND ERODABLE SLOPES MEETING THE SLOPE CRITERIA BELOW.
- ON COMPACTED SOILS WHERE TRENCHING OF SILT FENCE IS DIFFICULT OR IMPOSSIBLE.
- AROUND SENSITIVE TREES WHERE TRENCHING OF SILT FENCE IS NOT BENEFICIAL FOR TREE SURVIVAL OR MAY UNNECESSARILY DISTURB ESTABLISHED VEGETATION
- ON PAVED SURFACES WHERE TRENCHING OF SILT FENCE IS IMPOSSIBLE.

INSTALLATION

1. SILTSOXXTM USED FOR PERIMETER CONTROL OF SEDIMENT AND SOLUBLE POLLUTANTS IN STORM RUNOFF SHALL MEET FILTREXX SOXXTM MATERIAL SPECIFICATIONS AND USE CERTIFIED FILTREXX FILTERMEDIATM..
2. FILTERRINGSTM USED FOR SOLIDS SEPARATION AND FILTRATION OF SOLUBLE POLLUTANTS FROM CONTAMINATED WATER SUCH AS CONCRETE WASH OUTS SHALL MEET FILTREXX FILTERSOXXTM MATERIAL SPECIFICATIONS AND USE CERTIFIED FILTREXX FILTERMEDIATM.
3. CONTRACTOR IS REQUIRED TO BE FILTREXX CERTIFIEDTM AS DETERMINED BY FILTREXX INTERNATIONAL, LLC (440–926–2607 OR VISIT WEBSITE AT WWW.FILTREXX.COM). CERTIFICATION SHALL BE CONSIDERED CURRENT IF APPROPRIATE IDENTIFICATION IS SHOWN DURING TIME OF BID OR AT TIME OF APPLICATION (CURRENT LISTING CAN BE FOUND AT WWW.FILTREXX.COM). LOOK FOR THE FILTREXX CERTIFIEDTM SEAL.
4. SILTSOXXTM AND FILTERRINGS WILL BE PLACED AT LOCATIONS INDICATED ON PLANS AS DIRECTED BY THE ENGINEER.
5. SILTSOXXTM SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER DISTURBED AREA. IN EXTREME CONDITIONS (I.E., 2:1 SLOPES), A SECOND SILTSOXXTM SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE.
6. STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE SILTSOXXTM AND FILTERRING ON 2 FT CENTERS AS PER THE SKETCH PROVIDED BELOW, USING #3 REBAR STAKES, OR 2 IN BY 2 IN BY 4 FT WOODEN STAKES. IN THE EVENT STAKING IS NOT POSSIBLE, I.E., WHEN SILTSOXXTM ARE USED ON PAVEMENT, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SILTSOXXTM TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.
7. STAKING DEPTH FOR SAND, CLAY AND SILT LOAM SOILS SHALL BE 24 IN.
8. LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE SILTSOXXTM, FILLING THE SEAM BETWEEN THE SOIL SURFACE AND THE DEVICE, IMPROVING FILTRATION AND SEDIMENT RETENTION.
9. IF THE SILTSOXXTM IS TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION. THE ENGINEER WILL SPECIFY SEED REQUIREMENTS.
10. FILTREXX SILTSOXXTM ARE NOT TO BE USED IN PERENNIAL, EPHEMERAL, OR INTERMITTENT STREAMS.

INSPECTION AND MAINTENANCE

1. ROUTINE INSPECTION SHOULD BE CONDUCTED WITHIN 24 HRS OF A RUNOFF EVENT OR AS DESIGNATED BY THE REGULATING AUTHORITY. SILTSOXXTM SHOULD BE REGULARLY INSPECTED AT LEAST WEEKLY TO MAKE SURE THEY MAINTAIN THEIR SHAPE AND ARE PRODUCING ADEQUATE HYDRAULIC FLOW–THROUGH. IF PONDING BECOMES EXCESSIVE, ADDITIONAL SILTSOXXTM MAY BE REQUIRED TO REDUCE EFFECTIVE SLOPE LENGTH OR SEDIMENT REMOVAL MAY BE NECESSARY. SILTSOXXTM SHALL BE INSPECTED UNTIL AREA ABOVE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED
2. THE CONTRACTOR SHALL MAINTAIN THE SILTSOXXTM IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED. IF THE SILTSOXXTM HAS BEEN DAMAGED, IT SHALL BE REPAIRED, OR REPLACED IF BEYOND REPAIR.
3. THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE SILTSOXXTM WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE SILTSOXXTM, OR AS DIRECTED BY THE ENGINEER. ALTERNATIVELY, A NEW SILTSOXXTM CAN BE PLACED ON TOP OF AND SLIGHTLY BEHIND THE ORIGINAL ONE CREATING MORE SEDIMENT STORAGE CAPACITY WITHOUT SOIL DISTURBANCE.
4. SILTSOXXTM SHALL BE MAINTAINED UNTIL DISTURBED AREA ABOVE THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED.
5. THE FILTERMEDIATM WILL BE DISPERSED ON SITE ONCE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED, OR AS DETERMINED BY THE ENGINEER.
6. FOR LONG–TERM SEDIMENT AND POLLUTION CONTROL APPLICATIONS, SILTSOXXTM CAN BE SEEDED AT THE TIME OF INSTALLATION TO CREATE A VEGETATIVE FILTERING SYSTEM FOR PROLONGED AND INCREASED FILTRATION OF SEDIMENT AND SOLUBLE POLLUTANTS (CONTAINED VEGETATIVE FILTER STRIP). THE APPROPRIATE SEED MIX SHALL BE DETERMINED BY THE ENGINEER.

FILTREXX® CONCRETE WASHOUT

NOTES:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
2. FILTER SOXX™ MAY BE DIRECT SEEDED AT THE TIME OF INSTALLATION

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Paul Martin

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Revisions

No.	Date	Description
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M&W Project Number: 240139
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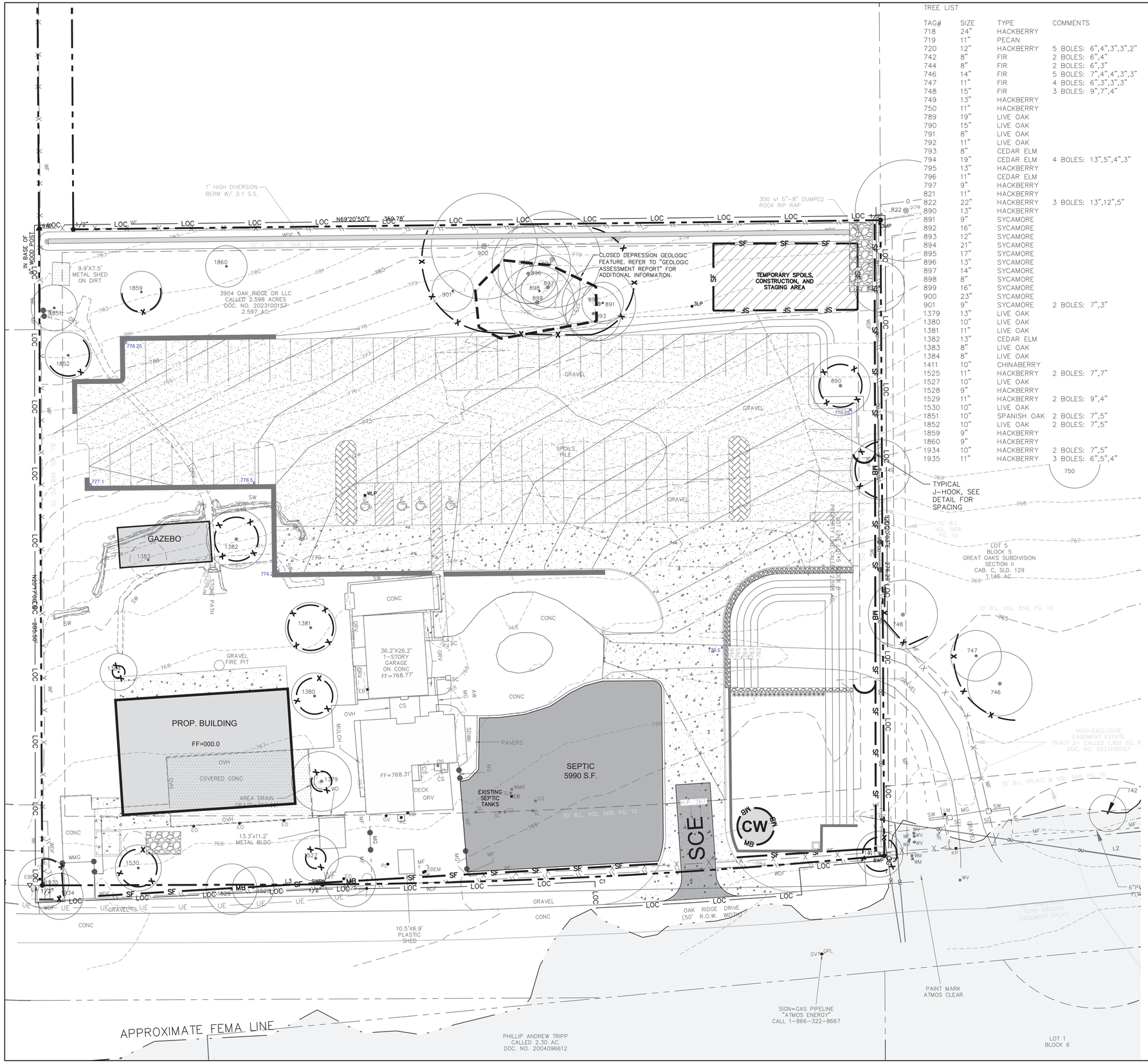
Designed By: PHM
Checked By: PHM

Sheet Title:
SWPPP NOTES

Sheet No.:
C1.3



TREE LIST

TAG#	SIZE	TYPE	COMMENTS
718	24"	HACKBERRY	
719	11"	PECAN	
720	12"	HACKBERRY	5 BOLES: 6",4",3",3",2"
742	8"	FIR	2 BOLES: 6",4"
744	8"	FIR	2 BOLES: 6",3"
746	14"	FIR	5 BOLES: 7",4",4",3",3"
747	11"	FIR	4 BOLES: 6",3",3",3"
748	15"	FIR	3 BOLES: 9",7",4"
749	13"	HACKBERRY	
750	11"	HACKBERRY	
789	19"	LIVE OAK	
790	15"	LIVE OAK	
791	8"	LIVE OAK	
792	11"	LIVE OAK	
793	8"	CEDAR ELM	
794	19"	CEDAR ELM	4 BOLES: 13",5",4",3"
795	13"	HACKBERRY	
796	11"	CEDAR ELM	
797	9"	HACKBERRY	
821	11"	HACKBERRY	
822	22"	HACKBERRY	3 BOLES: 13",12",5"
890	13"	HACKBERRY	
891	9"	SYCAMORE	
892	16"	SYCAMORE	
893	12"	SYCAMORE	
894	21"	SYCAMORE	
895	17"	SYCAMORE	
896	13"	SYCAMORE	
897	14"	SYCAMORE	
898	8"	SYCAMORE	
899	16"	SYCAMORE	
900	23"	SYCAMORE	
901	9"	SYCAMORE	2 BOLES: 7",3"
1379	13"	LIVE OAK	
1380	10"	LIVE OAK	
1381	11"	LIVE OAK	
1382	13"	CEDAR ELM	
1383	8"	LIVE OAK	
1384	8"	LIVE OAK	
1411	10"	CHINABERRY	
1525	11"	HACKBERRY	2 BOLES: 7",7"
1527	10"	LIVE OAK	
1528	9"	HACKBERRY	
1529	11"	HACKBERRY	2 BOLES: 9",4"
1530	10"	LIVE OAK	
1851	10"	SPANISH OAK	2 BOLES: 7",5"
1852	10"	LIVE OAK	2 BOLES: 7",5"
1859	9"	HACKBERRY	
1860	9"	HACKBERRY	
1934	10"	HACKBERRY	2 BOLES: 7",5"
1935	11"	HACKBERRY	3 BOLES: 6",5",4"

(SCALE IN FEET)

LEGEND

- SITE BOUNDARY
- LOC — LIMITS OF CONSTRUCTION
- SF — SILT FENCE
- X — TREE PROTECTION
- RB — ROCK BERM
- MB — ORGANIC FILTER BERM (MULCH SOCK)
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- INLET PROTECTION
- TREE TO REMAIN W/ 1/2 C.R.Z.
- TREE TO BE REMOVED
- CW — CONCRETE WASHOUT

NOTES

1. A PRECONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.

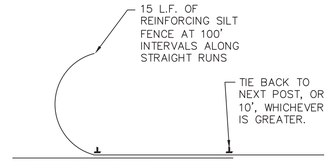
ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLAINCE WITH THE CITY OF ROUND ROCK RULES AND REGULATIONS.

2. STORM INLET PROTECTION IS TO BE PROVIDED DOWN STREAM OF PROJECT.
3. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(A), OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
4. THERE WILL BE NO ON-SITE FUEL STORAGE.
5. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP, OR REVEGETATION MATTING. [ECM 1.4.4.B.3, SECTION 5, I.]
6. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY. [ECM 1.4.4.D.4]
7. INTERNAL EROSION CONTROLS MAY BE SUBSTITUTED FOR MULCH SOCKS AS NECESSARY TO ALLOW FLEXIBILITY DURING CONSTRUCTION PHASES.
8. CONTRACTOR SHALL COORDINATE WORK AS NEEDED WITHIN TREE PROTECTION AREAS WITH THE ENVIRONMENTAL INSPECTOR.
9. REFER TO SHEET 2 FOR Q2 TABLE.
10. TOTAL LINEAR FOOTAGE OF PROPOSED SILT FENCE: 450
11. CONTRACTOR RESPONSIBLE FOR REMOVAL OF SEDIMENT TRANSPORTED FROM THE LIMITS OF CONSTRUCTION TO OFFISTE DETENTION/WATER QUALITY POND(S).

CONSTRUCTION PHASING & DURATION

DUE TO THE MINIMAL SIZE OF THIS PROJECT, ALL AREAS SHALL BE IN ONE PHASE AND THE DURATION OF DISTURBANCE SHALL BE FOR THE ENTIRE PROJECT LENGTH.

J-HOOK HORIZONTAL REINFORCEMENT DETAILS FOR STRAIGHT SILT FENCE RUNS



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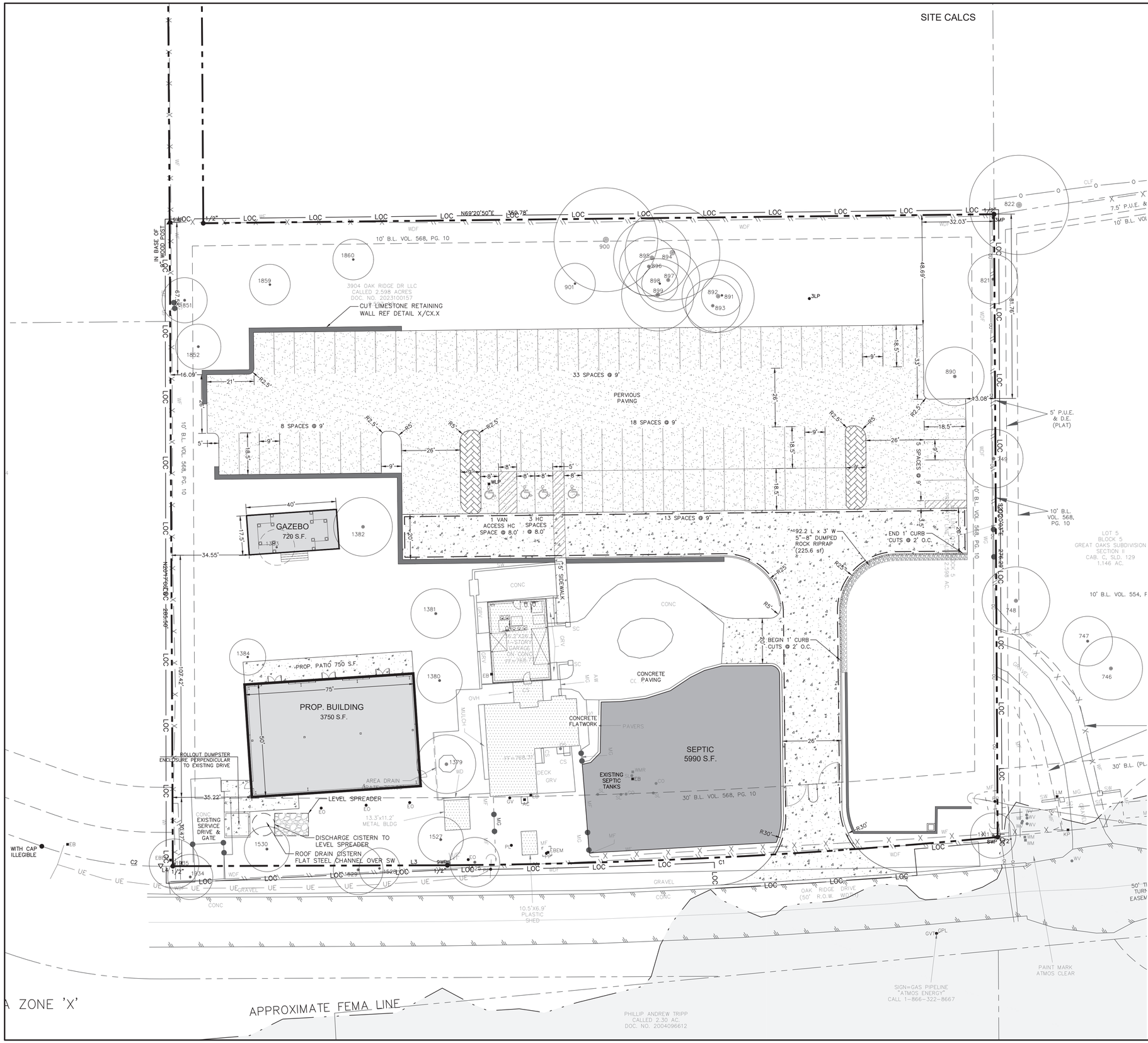
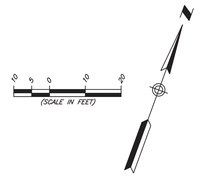
M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title: EROSION/ SEDIMENTATION CONTROL PLAN

Sheet No.: C1.4

SITE CALCS





LEGEND

LOC	LIMITS OF CONSTRUCTION
	FIRELANE STRIPING
	ACCESSIBLE ROUTE (SEE NOTES)
⊠	DUMPSTER

NOTES

SITE NOTES:

1. PARKING SURFACE TO BE ASPHALT. SEE CONSTRUCTION DETAILS.
2. FOR DRIVEWAY CONSTRUCTION: THE OWNER IS RESPONSIBLE FOR ALL COSTS FOR RELOCATION OF OR DAMAGE TO UTILITIES.
3. COORDINATE ALL CONSTRUCTION IN PRIVATE RIGHT-OF-WAY WITH OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
4. ALL DEMOLISHED MATERIALS ARE TO BE MOVED TO AN OFF-SITE LOCATION BY DEMOLITION CONTRACTOR.
5. THERE ARE NO OTHER STRUCTURES OR BUILDINGS WITHIN 50' OF THE LIMITS OF CONSTRUCTION OTHER THAN THOSE SHOWN.
6. ESTABLISH FIRE ZONES AS SHOWN ON SITE BY PAINTING GUTTER RED. STENCIL THE WORDS "FIRE ZONE/TOW-AWAY ZONE" IN WHITE LETTERS AT LEAST 3 INCHES HIGH AT 35' INTERVALS ALONG THE CURB OR PAVEMENT AS NOTED ON THE SITE PLAN.

ACCESSIBILITY NOTES:

1. WHEN MORE THAN ONE BUILDING OR FACILITY IS LOCATED ON A SITE, AT LEAST ONE ACCESSIBLE ROUTE MUST BE PROVIDED BETWEEN ACCESSIBLE ELEMENTS, FACILITIES AND BUILDINGS.
2. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP.
3. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50.
4. GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM AND SLIP RESISTANT.
5. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 IN.THE MAXIMUM HORIZONTAL PROJECTION IS 30 FEET FOR A RAMP WITH A SLOPE BETWEEN 1:12 AND 1:15, AND 40 FEET FOR A RAMP WITH A SLOPE BETWEEN 1:16 AND 1:20.
6. DETECTABLE WARNINGS FOR CURB RAMPS SHALL FOLLOW TDLR TECHNICAL MEMORANDUM TM 08-01 AND HAVE TEXTURES CONSISTING OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN., A HEIGHT OF NOMINCAL 0.2 IN. AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 IN. AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT ON DARK, OR DARK ON LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
7. ACCESSIBLE PARKING SPACES MUST BE LOCATED ON A SURFACE WITH SLOPE NOT EXCEEDING 1:50.
8. ACCESSIBLE PARKING SPACES MUST BE LOCATED ON THE SHORTEST POSSIBLE ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE BUILDING ENTRANCE. IN FACILITIES WITH MULTIPLE ACCESSIBLE BUILDING ENTRANCES WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES MUST BE DISPERSED AND LOCATED NEAR THE ACCESSIBLE ENTRANCES.
9. EVERY ACCESSIBLE PARKING SPACE MUST BE IDENTIFIED BY A SIGN, CENTERED AT THE HEAD OF THE PARKING SPACE. THE SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND STATE "RESERVED" OR EQUIVALENT LANGUAGE. CHARACTERS AND SYMBOLS ON SUCH SIGNS MUST BE LOCATED 60" MINIMUM ABOVE THE GROUND SO THAT THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. SEE SIGN DETAIL ON CONSTRUCTION DETAILS SHEET.
10. AT EVERY PRIMARY PUBLIC ENTRANCE AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL, THERE MUST BE A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNS MUST INDICATE THE DIRECTION TO AN ACCESSIBLE BUILDING ENTRANCE.
11. THE CONTRACTOR SHALL VERIFY ALL GRADES CONCERNING ACCESSIBLE ROUTES AND WALKWAYS PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL CONTACT THE ENGINEER 48 HOURS PRIOR TO CONCRETE PLACEMENT ON ALL ACCESSIBLE ROUTES AND WALKWAYS IN ORDER TO VERIFY FORM PLACEMENT, SLOPES AND GRADES.

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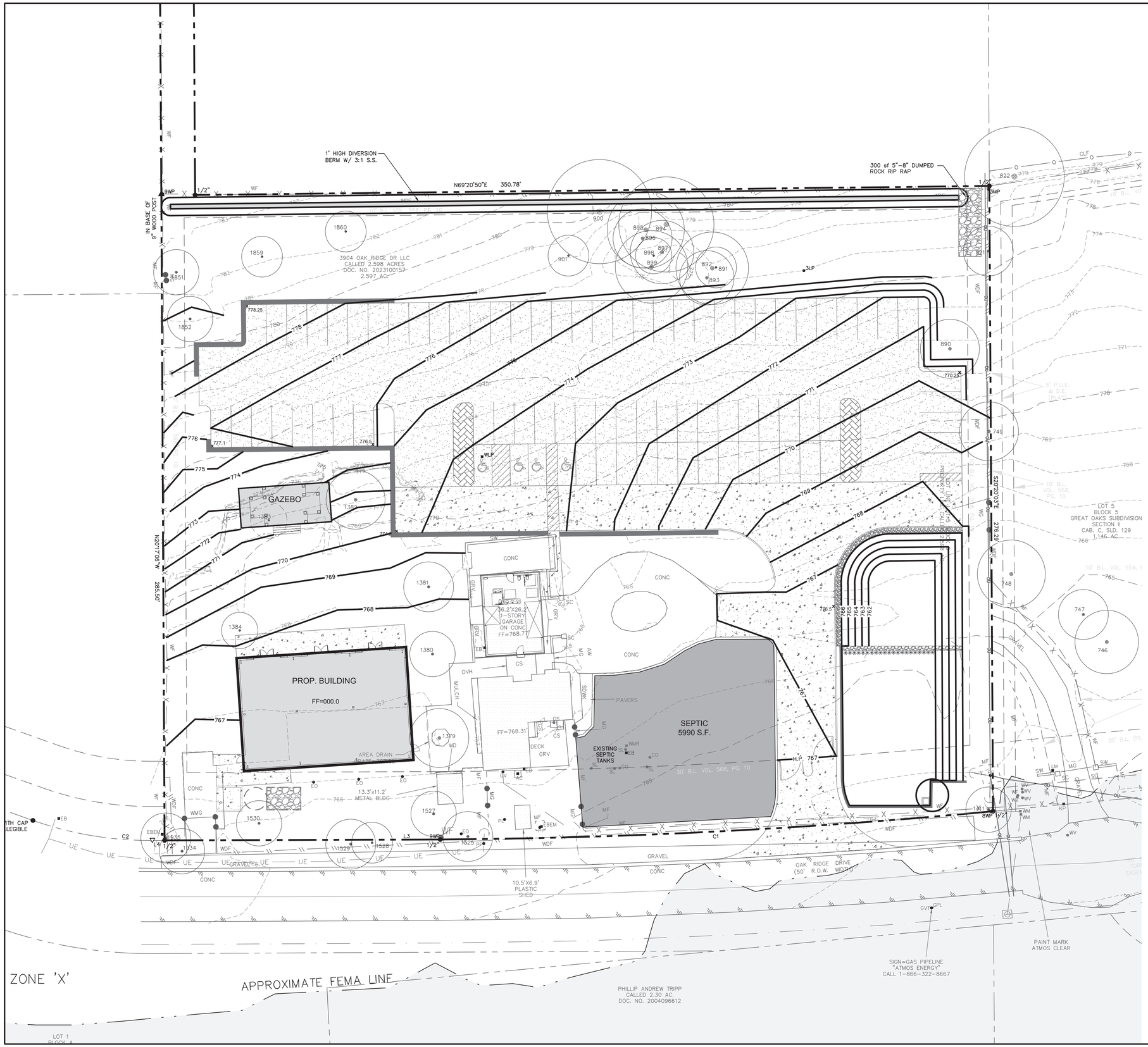
M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title: SITE PLAN

Sheet No.: C1.5



LEGEND

740.0	PROPOSED GRADING
x 740.0	SPOT ELEVATION
FF	FINISH FLOOR
	FLOW DIRECTION

NOTES

1. ALL EARTHWORK TO BE DONE IN ACCORDANCE WITH THE DIVISION 2 SPECIFICATIONS IN THE PROJECT MANUAL.
2. ANY UNSUITABLE SOIL TO BE REMOVED AND INSPECTED BY A QUALIFIED SOILS TECHNICIAN AND BACK FILLED TO THE REQUIRED ELEVATION WITH APPROVED FILL MATERIAL. ALL FILL TO BE PLACED IN LOOSE LIFTS NOT TO EXCEED EIGHT INCHES IN THICKNESS.
3. SUBMIT TO ENGINEER FOR APPROVAL THE FOLLOWING: SAMPLES OF ALL IMPORTED MATERIAL, SAMPLES OF ALL ON-SITE MATERIAL TO BE USED AS SELECT OR COMMON FILL. SUBMITTAL MUST INCLUDE CERTIFICATION FROM A QUALIFIED TESTING LABORATORY THAT IMPORTED MATERIALS CONFORM TO THE REQUIREMENTS AS DETERMINED BY THE GEOTECHNICAL REPORT AND THESE NOTES.
4. PRIOR TO BEGINNING ANY EXCAVATION OR FILL, STRIP THE TOPSOIL TO A DEPTH OF AT LEAST 6 INCHES OR TO A DEPTH SUFFICIENT TO REMOVE ALL ORGANIC OR EXPANSIVE SURFACE CLAYS AS NOTED IN THE GEOTECHNICAL REPORT. STOCKPILE THIS SOIL FOR FUTURE USE IN PREDETERMINED AREAS FOR USE IN LANDSCAPING AND NONSTRUCTURAL FILL.
5. ONCE FINAL SUBGRADE ELEVATIONS HAVE BEEN ACHIEVED, INCLUDING THE OVER-EXCAVATION REQUIRED FOR BUILDING PADS, THE EXPOSED SUBGRADE SHOULD BE CAREFULLY PROOFROLLED WITH A 20-TON PNEUMATIC ROLLER OR A FULLY LOADED DUMP TRUCK TO DETECT WEAK ZONES IN THE SUBGRADE. WEAK AREAS DETECTED AS WELL AS ZONES CONTAINING DEBRIS OR ORGANICS AND VOIDS RESULTING FROM REMOVAL OF TREE ROOTS, BOULDERS, ETC. SHOULD BE REMOVED AND REPLACED WITH SOILS EXHIBITING SIMILAR CLASSIFICATION, MOISTURE CONTENT AND DENSITY AS THE ADJACENT IN-SITU SOILS.
6. PROPER SITE DRAINAGE SHOULD BE MAINTAINED DURING CONSTRUCTION SO THAT PONDING OF SURFACE RUNOFF DOES NOT OCCUR AND CAUSES CONSTRUCTION DELAYS AND/OR INHIBIT SITE ACCESS.
7. FILL SHOULD NOT CONTAIN ROCK GREATER THAN THREE INCHES IN DIAMETER, MORE THAN 1% (DRY WEIGHT) OF ORGANIC MATTER OR DETRIMENTAL MATERIAL AND SHALL HAVE A P.I. OF LESS THAN 20. IF THIS SPECIFICATION CONFLICTS WITH THE GEOTECHNICAL REPORT, THE MORE STRINGENT REQUIREMENT APPLIES.
8. IMPORTED PAVING FILL SHOULD BE TYPE B SOIL (CL, SC, OR GC) PER TxDOT ITEM 132 OR CLASS B BORROW PER CITY OF AUSTIN ITEM 130S, WITH A MAXIMUM PI OF 30 AND NO ROCKS LARGER THAN 3 INCHES IN MAXIMUM DIMENSION. IMPORTED PAVING FILL SHOULD BE COMPACTED TO THE DENSITY AND MOISTURE REQUIREMENTS GIVEN IN THE GEOTECHNICAL REPORT.
9. EXCAVATED ON-SITE SOILS, IF FREE OF ORGANICS, DEBRIS AND ROCKS LARGER THAN 4 INCHES, MAY BE CONSIDERED FOR USE AS FILL IN PAVEMENT, UTILITY OR OTHER GENERAL EMBANKMENT AREAS. CLAYEY SOILS WITH PIs EXCEEDING OR EQUALLING 25 SHOULD BE MOISTURE CONDITIONED TO BETWEEN OPTIMUM AND +4 PERCENT OF OPTIMUM. CLAYEY SOILS WITH PIs LESS THAN 25 SHOULD BE MOISTURE CONDITIONED TO BETWEEN -3 AND +3 PERCENT OF OPTIMUM.
10. CONTRACTOR SHALL CONTROL DUST BY WATER OR OTHER MEANS ON AND NEAR THE LIMITS OF CONSTRUCTION IF DUST IS CAUSED BY CONTRACTOR'S OPERATIONS DURING PERFORMANCE OF THE WORK OR IF RESULTING FROM CONDITIONS IN WHICH THE CONTRACTOR LEAVES THE SITE.
11. CONTRACTOR SHALL CALL THE ONE CALL SYSTEM OR THE TEXAS EXCAVATION SAFETY SYSTEM, 1-800-DIG-TESS FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN UTILITY EASEMENTS OR HIGHWAY RIGHT OF WAY.
12. ALL DETAILS NOT SHOWN BUT ARE COVERED BY CITY STANDARD DETAILS AND SPECIFICATIONS SHALL CONFORM TO CITY OF AUSTIN STANDARDS. DIMENSIONS AND LIMITS OF THESE ITEMS ARE NOTED ON THE DRAWINGS.
13. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS THAT ARE REQUIRED TO COMPLY WITH SECTIONS 15-12-161 THROUGH 15-12-181 OF THE CITY CODE REGARDING EXCAVATION IN PUBLIC RIGHT-OF-WAY.
14. ADEQUATE BARRIERS BETWEEN ALL VEHICULAR USE AREAS AND ADJACENT LANDSCAPE AREAS, SUCH AS 6" CONCRETE CURB AREA REQUIRED. IF A STANDARD 6" CURB AND GUTTER ARE NOT PROVIDED FOR ALL VEHICULAR USE AREAS AND ADJACENT LANDSCAPE AREAS, COMPLY WITH ECM, SECTION 2.4.7, PROTECTION OF LANDSCAPE AREA.
15. THIS GRADING PLAN WAS PREPARED PRIOR TO THE DEVELOPMENT OF THE FINAL ARCHITECTURAL AND STRUCTURAL DRAWINGS. THEREFORE, MINOR FIELD ADJUSTMENTS MAY BE NECESSARY BETWEEN THE PAVEMENT AND BUILDINGS IN ORDER TO COMPLY WITH TEXAS ACCESSIBILITY STANDARDS.
16. THE CONTRACTOR SHALL VERIFY ALL GRADES CONCERNING ACCESSIBLE ROUTES AND WALKWAYS PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL CONTACT THE ENGINEER 48 HOURS PRIOR TO CONCRETE PLACEMENT ON ALL ACCESSIBLE ROUTES AND WALKWAYS IN ORDER TO VERIFY FORM PLACEMENT, SLOPES AND GRADES.
17. CONTRACTOR SHALL, AT THEIR EXPENSE, RAISE EXISTING CASTINGS OF VALVES, MANHOLES, ELECTRIC VAULTS, AND OTHER STRUCTURES TO MEET THE PROPOSED GRADES.
18. FINISH GRADE INCLUDING FINISHED LANDSCAPE ELEVATION SHALL NOT BE CLOSER THAN 6" FROM FINISHED FLOOR.

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STATE OF TEXAS
PAUL H. MARTIN III
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REGISTERED PROFESSIONAL ENGINEER

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Issue Date: November 6, 2025

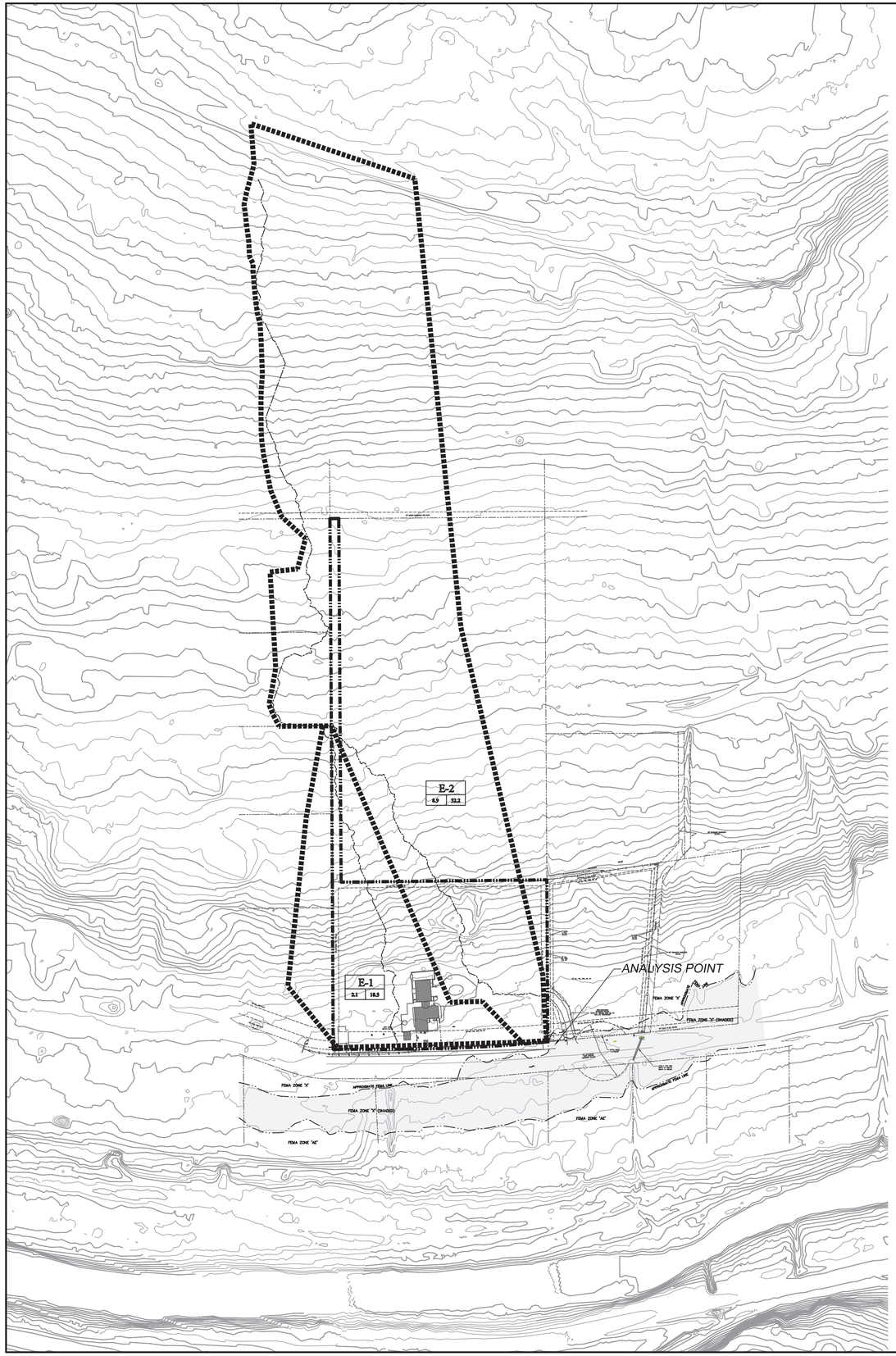
Revisions

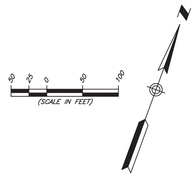
No.	Date	Description
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title: GRADING PLAN

Sheet No.: C1.6





LEGEND

A / 1.0 | 1.0	EXISTING / PROPOSED DRAINAGE SUB AREA AREA ACREAGE 100 YR. FLOW, C.F.S.
	SUB AREA BOUNDARY
	FLOW DIRECTION
CfB/GaB	SOIL CLASSIFICATION (CLASS D SOILS)
	Tc TRAVEL PATH
	EXISTING STORMSEWER
	PROPOSED STORMSEWER
SF	SHEET FLOW
SCF	SHALLOW CONCENTRATED FLOW

NOTES

1. THE SITE DRAINAGE ANALYSIS WAS DESIGNED USING HEC-HMS AND THE ATLAS 14 FREQUENCY STORM AS DEFINED IN THE DRAINAGE CRITERIA MANUAL FOR THE CITY OF ROUND ROCK.
2. REFER TO THE DRAINAGE CALCULATIONS AND THE ENGINEER'S REPORT FOR DETAILED INFORMATION ON ALL DRAINAGE CALCULATIONS.
3. AREAS SHOWN AS 'SUB AREAS' ARE ONLY USED FOR CALCULATING DRAINAGE CONDUITS AND INLETS. REFER TO DRAINAGE STUDY FOR IN DEPTH DRAINAGE INFORMATION.
4. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS, AND PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY OR FINAL INSPECTION RELEASE BY THE CITY, THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE AND DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS.
5. CONTRACTOR SHALL CALL THE TEXAS EXCAVATION SAFETY SYSTEM 1-800-DIG-TESS FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN UTILITY EASEMENTS OR STREET RIGHT OF WAY.

HEC-HMS SUMMARY

EXISTING CONDITIONS, AREAS E1 and E2

	Area (ac)	Imperv Cover (ac)	Hydrologic Soils	SCS CN	Tc (min)	Tlag (min)	Q2	Q10	Q25	Q100
Drainage E1	2.1	0.24	D	82	14.4	8.64	6.0	10.5	13.5	18.3
Drainage E2	8.9	0.69	D	82	33.0	19.8	16.7	29.6	38.1	52.2
Analysis Point							22.7	40.1	51.6	70.5

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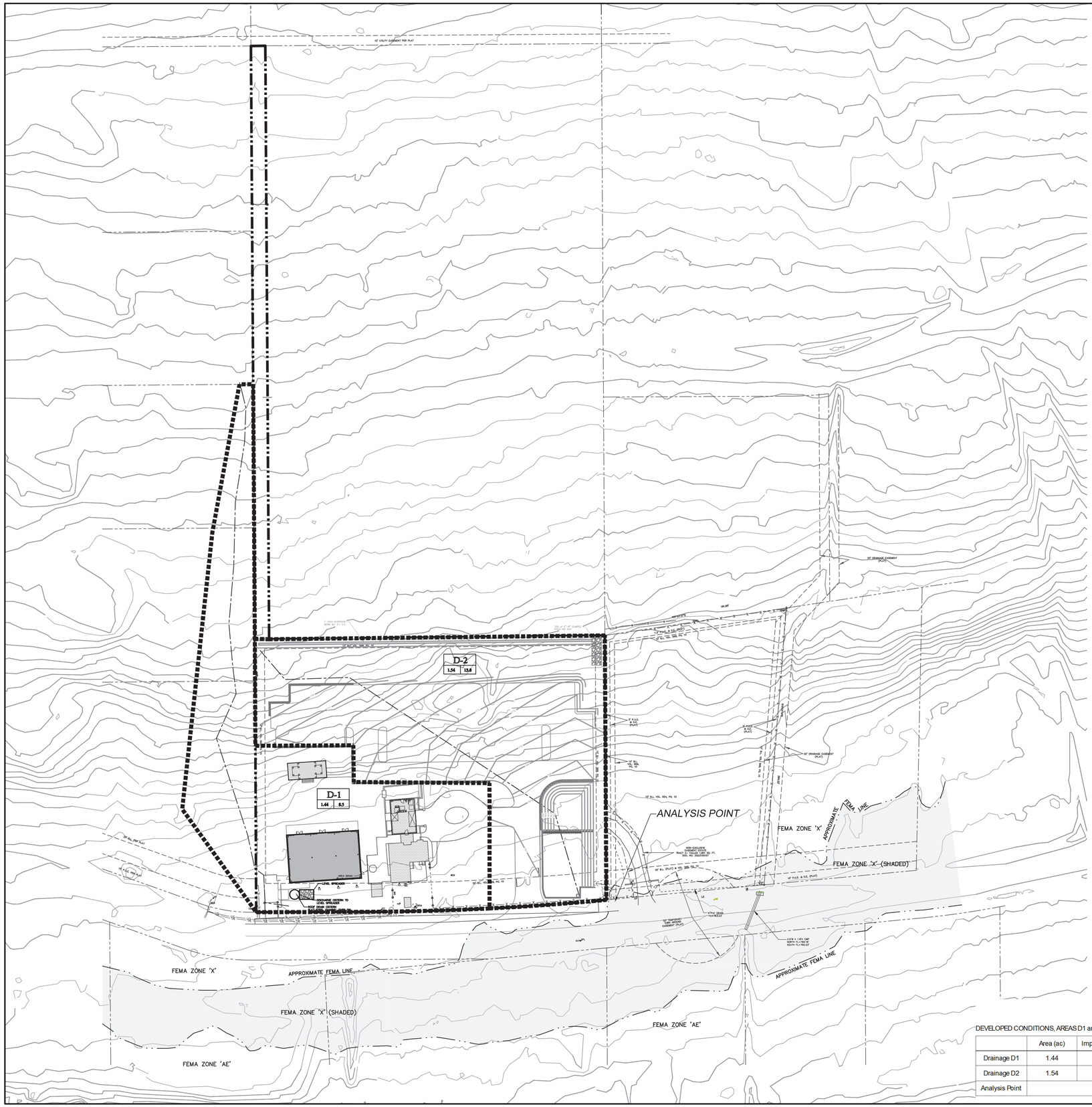
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title: EXISTING OVERALL DRAINAGE

Sheet No.: C1.7



LEGEND

A 1.0 1.0	EXISTING / PROPOSED DRAINAGE SUB AREA AREA ACREAGE 100 YR. FLOW, C.F.S.
▬ ▬ ▬	SUB AREA BOUNDARY
—⁄\/—►	FLOW DIRECTION
LcB	SOIL CLASSIFICATION (CLASS C SOILS)
—— - ——	Tc TRAVEL PATH
——	EXISTING STORMSEWER
━━	PROPOSED STORMSEWER
SF	SHEET FLOW
SCF	SHALLOW CONCENTRATED FLOW

NOTES

1. THE SITE DRAINAGE ANALYSIS WAS DESIGNED USING HEC–HMS AND THE ATLAS 14 FREQUENCY STORM AS DEFINED IN THE DRAINAGE CRITERIA MANUAL FOR THE CITY OF ROUND ROCK.
2. REFER TO THE DRAINAGE CALCULATIONS AND THE ENGINEER'S REPORT FOR DETAILED INFORMATION ON ALL DRAINAGE CALCULATIONS.
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4. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS, AND PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY OR FINAL INSPECTION RELEASE BY THE CITY, THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE AND DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS.
5. CONTRACTOR SHALL CALL THE TEXAS EXCAVATION SAFETY SYSTEM 1–800–DIG–TESS FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN UTILITY EASEMENTS OR STREET RIGHT OF WAY.

HEC-HMS SUMMARY

DEVELOPED CONDITIONS, AREAS D1 and D2

	Area (ac)	Imperv Cover (ac)	Hydrologic Soils	SCS CN	Tc (min)	Tlag (min)	Q2	Q10	Q25	Q100
Drainage D1	1.44	0.23	D	81	15.6	9.4	4.2	7.2	9.1	12.6
Drainage D2	1.54	0.29	D	91	6.0	3.6	3.8	7.6	10.0	13.8
Analysis Point							8.0	14.8	19.1	26.4

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Paul Martin

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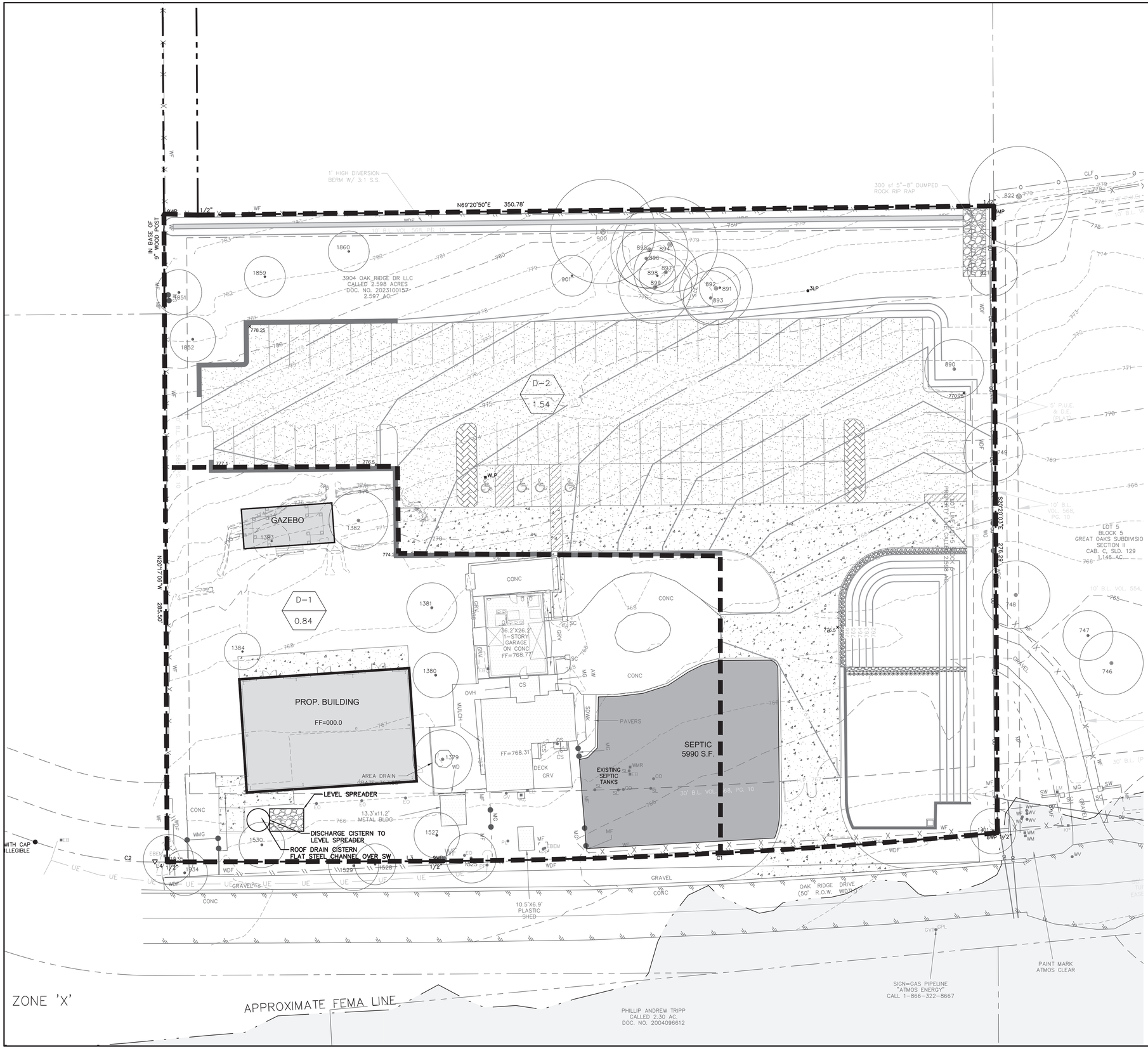
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139	Drawn By: TH
Designed By: PHM	Checked By: PHM

Sheet Title: PROPOSED OVERALL DRAINAGE

Sheet No.: C1.8



(SCALE IN FEET)

LEGEND

- A / 0.0 — DRAINAGE SUB AREA / SUB AREA ACREAGE
- SUB AREA BOUNDARY
- FLOW DIRECTION
- DWPP — ASTM F2881 DUAL WALL POLYPROPYLENE
- EXISTING STORMSEWER
- PROPOSED STORMSEWER

NOTES

1. THE SITE DRAINAGE ANALYSIS WAS DESIGNED USING HEC-HMS AND THE AUSTIN 24 HOUR STORM AS DEFINED IN THE DRAINAGE CRITERIA MANUAL FOR THE CITY OF AUSTIN.
2. THE STORM SEWER ANALYSIS WAS DESIGNED USING THE MODIFIED RATIONAL METHOD USING THE AUSTIN 24 HOUR STORM AS DEFINED IN THE DRAINAGE CRITERIA MANUAL FOR THE CITY OF AUSTIN.
3. REFER TO THE DRAINAGE CALCULATIONS AND THE ENGINEER'S REPORT FOR DETAILED INFORMATION ON ALL DRAINAGE CALCULATIONS.
4. AREAS SHOWN AS 'SUB AREAS' ARE ONLY USED FOR CALCULATING DRAINAGE CONDUITS AND INLETS. REFER TO DRAINAGE STUDY FOR IN DEPTH DRAINAGE INFORMATION.
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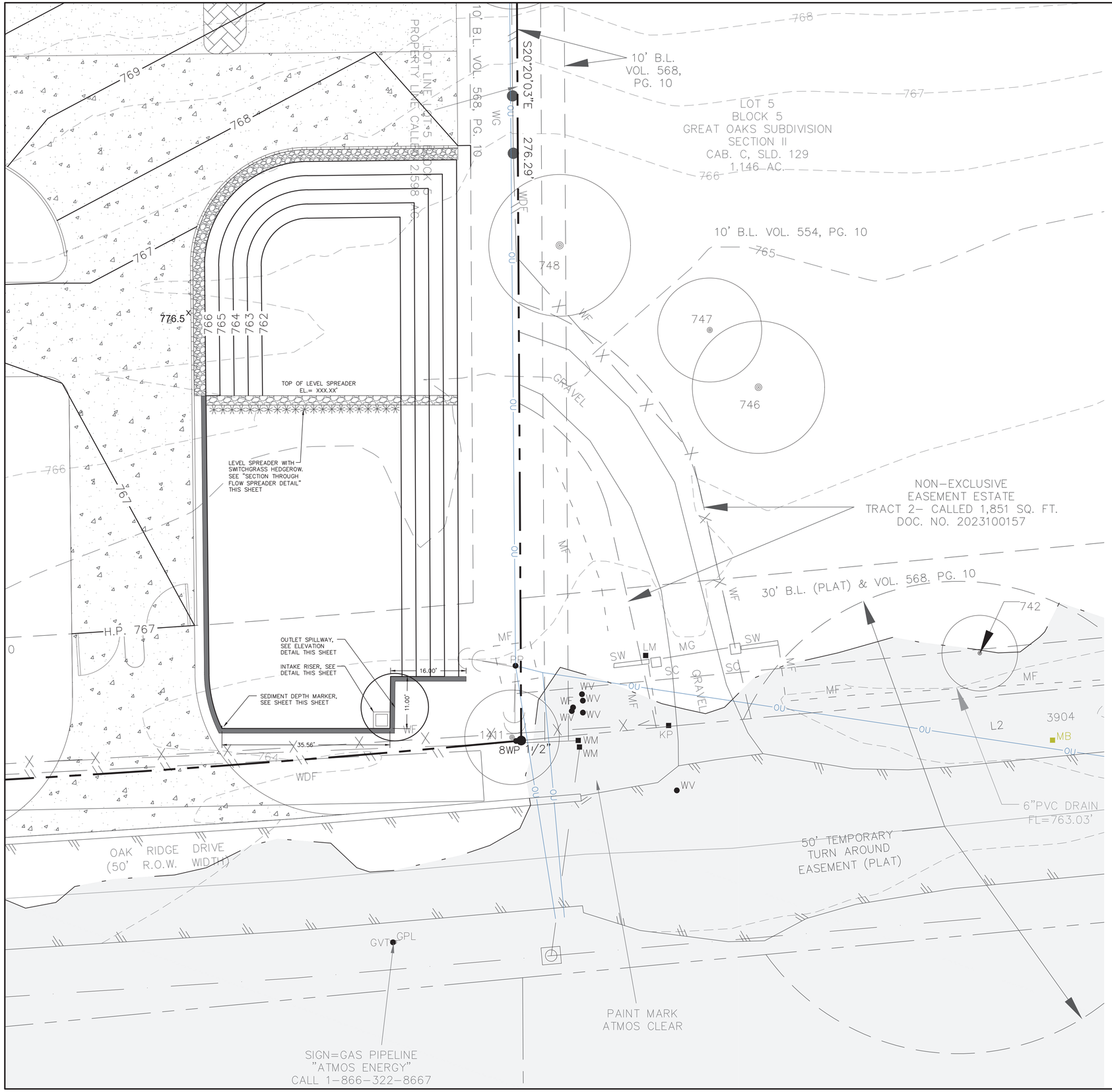
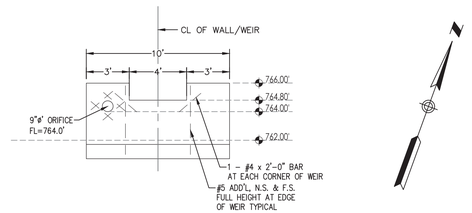
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

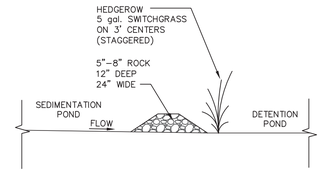
Sheet Title: STORM SEWER PLAN

Sheet No.: C1.9

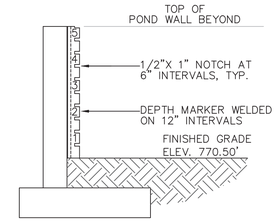




ELEVATION AT OUTLET SPILLWAY
SCALE: 1" = 5'

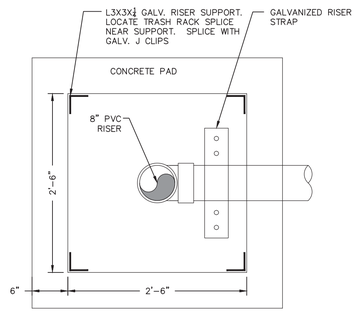


SECTION THRU FLOW SPREADER
SCALE: N.T.S.

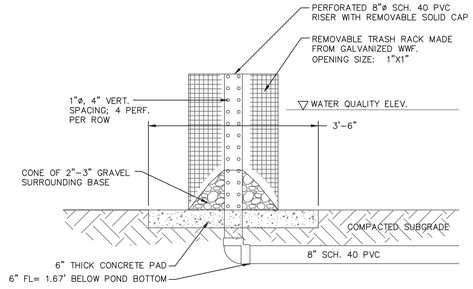


INSTALL L2x2x1/4 ANGLE WITH (2) 1/2" WEDGE ANCHORS TO WALL AT GABION

SEDIMENTATION DEPTH/MARKER
N.T.S.



INTAKE RISER PLAN
NOT TO SCALE



SECTION THROUGH RISER
NOT TO SCALE

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6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title:
WATER QUALITY POND PLAN

Sheet No.:
C1.10

DETENTION POND STORAGE and DISCHARGE

ELEVATION ft	STORAGE ft3	STORAGE acre-ft	OUTLET FLOW cfs
763	0	0	0
763.283	1556 WQV	0.036 WQV	0
764	5500	0.126	0
765	11,000	0.253	4
766	16,500	0.379	14

WQV = required water quality volume
OUTLET FLOW includes 9 inch pipe and 4ft spillway

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Castle Gardens
Date Prepared: 10/20/25

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

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

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

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

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

County =	Williamson	
Total project area included in plan * =	1.54	acres
Predevelopment impervious area within the limits of the plan * =	0.00	acres
Total post-development impervious area within the limits of the plan* =	0.29	acres
Total post-development impervious cover fraction * =	0.19	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	252	lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area =	1.54	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	0.29	acres
Post-development impervious fraction within drainage basin/outfall area =	0.19	
$L_{M\ THIS\ BASIN}$ =	252	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Bioretention
Removal efficiency = 89 percent

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

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

A_C =	1.54	acres
A_I =	0.29	acres
A_P =	1.25	acres
L_R =	305	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 252 lbs.

F = 0.83

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth =	1.20	inches
Post Development Runoff Coefficient =	0.19	
On-site Water Quality Volume =	1296	cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	259	
Total Capture Volume (required water quality volume(s) x 1.20) =	1556	cubic feet

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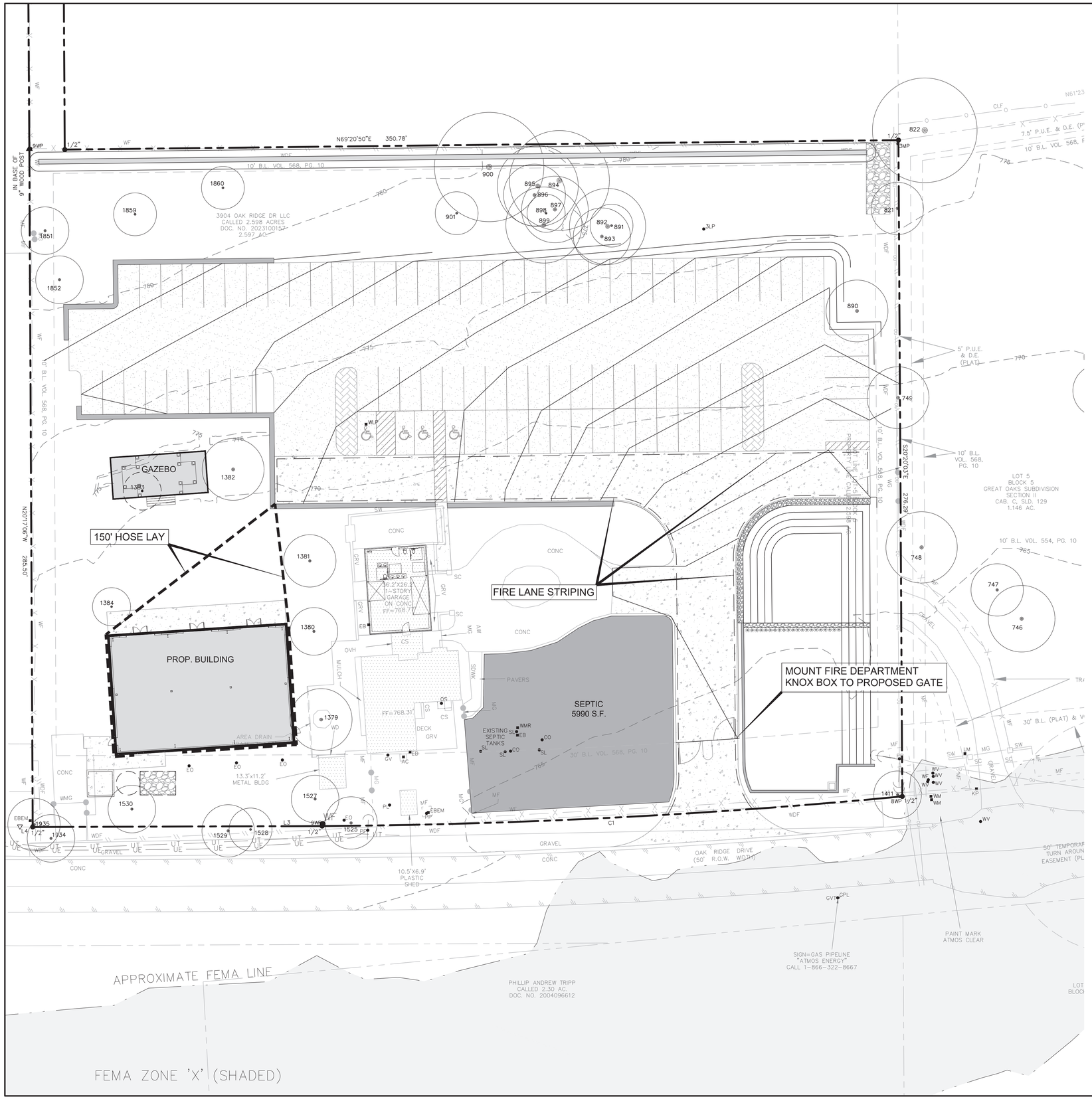
M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title: WATER QUALITY POND CALCS

Sheet No.: C1.11



(SCALE IN FEET)

LEGEND

- EXISTING WATER
- PROPOSED WATER
- PUBLIC FIRE HYDRANT

NOTES

1. REFER TO SHEET 2 FOR ALL WATER UTILITY STANDARD NOTES.
2. CONTRACTOR SHALL CALL THE ONE CALL SYSTEM OR THE TEXAS EXCAVATION SAFETY SYSTEM, 1-800-DIG-TESS FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN UTILITY EASEMENTS OR HIGHWAY RIGHT OF WAY.
3. ALL DETAILS NOT SHOWN BUT ARE COVERED BY C.O.R.R. DETAILS AND SPECIFICATIONS SHALL CONFORM TO CITY OF ROUND ROCK STANDARDS. DIMENSIONS AND LIMITS OF THESE ITEMS ARE NOTED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS THAT ARE REQUIRED TO COMPLY WITH SECTIONS 15-12-161 THROUGH 15-12-181 OF THE CITY CODE REGARDING EXCAVATION IN PUBLIC RIGHT-OF-WAY.
5. NO METERS ARE ALLOWED WITHIN THE LIMITS OF PROPOSED OR EXISTING SIDEWALKS.
6. EXISTING WATER AND SEWER SERVICES ARE ADEQUATE FOR THE PROPOSED SMALL ADDITION.

ADDITIONAL NOTES

1. THERE ARE NO OTHER STRUCTURES OR BUILDINGS WITHIN 50' OF THE LIMITS OF CONSTRUCTION OTHER THAN THOSE SHOWN.
2. ESTABLISH FIRE ZONES AS SHOWN ON SITE BY PAINTING GUTTER RED. STENCIL THE WORDS "FIRE ZONE/TOW-AWAY ZONE" IN WHITE LETTERS AT LEAST 3 INCHES HIGH AT 35' INTERVALS ALONG THE CURB OR PAVEMENT AS NOTED ON THE SITE PLAN.
3. WATER SERVICE IS CURRENTLY PROVIDED BY THE CITY OF ROUND ROCK.

NOTE:
THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPE, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF AS TO THE LOCATION OF THE AFOREMENTIONED ITEMS, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATIONS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.

ROUND ROCK FIRE DEPARTMENT NOTES

1. GENERAL: ALL DEVELOPMENTS SHALL COMPLY WITH THE CURRENT FIRE CODE, APPENDICES, AND ANY LOCAL AMENDMENTS AS ADOPTED BY THE CITY OF ROUND ROCK.
2. COMBUSTIBLE MATERIALS ON-SITE: ALL-WEATHER ACCESS ROADS/DRIVES (ASPHALT/CONCRETE CAPABLE OF SUPPORTING 80,000 LB. APPARATUS LOADING) SHALL BE CONSTRUCTED, AND ALL WATER LINES SHALL BE TESTED AND FIRE HYDRANTS IN-SERVICE, PRIOR TO BRINGING COMBUSTIBLE MATERIALS (WOOD, PACKAGING, PLASTICS, ETC.) ON ANY JOB SITE. BASE MATERIAL IS NOT ACCEPTABLE FOR FIRE ACCESS ROADS/DRIVES.
3. FIRE LANES: FIRE APPARATUS ACCESS ROADS/DRIVES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF (20) FEET, WHERE TRAFFIC IS TWO-WAY DIRECTIONAL, BUILDINGS EXCEED (30) FEET OR THREE STORIES IN HEIGHT, TOTAL BUILDING AREA EXCEEDS 62,000 SQUARE FEET, OR WHERE HYDRANTS ARE LOCATED ALONG THE FIREACCESS ROADS, THE MINIMUM WIDTH SHALL BE (26) FEET. IF RAISED CURBING OR MEDIANS COMPROMISE MINIMUM WIDTH, CURBING SHALL BE MOUNTABLE AND RAISED AREA SHALL CONTAIN NO OBSTRUCTIONS SUCH AS LANDSCAPING, SIGNAGE, GROUND-MOUNTED EQUIPMENT, ETC.
4. ALL-WEATHER SURFACE: THE PAVEMENT STRUCTURE FOR FIRE ACCESS ROADS/DRIVES MUST BE ALL-WEATHER SURFACE (ASPHALT/CONCRETE) DESIGNED TO SUPPORT AN 80,000 LB. APPARATUS LOADING.
5. GRADE: THE GRADE THROUGH THE FIRE LANE ACCESS SHALL NOT EXCEED 7% AND NO GRADE BREAKS SHALL EXCEED 3%.
6. TURNING RADII: TURNING RADII SHALL BE A MINIMUM OF 25-FTT INSIDE AND 50-FT OUTSIDE AS MEASURED FROM FACE-OF-CURB (WHEN PRESENT) OR ON DRIVABLE, PAVED SURFACE.
7. VERTICAL CLEARANCE: THE VERTICAL CLEARANCE OVER A DESIGNATED FIRE LANE SHALL NOT BE LESS THAN 13'-6".
8. EMERGENCY RESPONDER RADIO COVERAGE: ADEQUATE EMERGENCY RESPONDER RADIO COVERAGE SHALL BE REQUIRED FOR ALL NEW BUILDINGS. A PRE-ENHANCEMENT RADIO SURVEY SHALL BE REQUIRED AT THE 80% CONSTRUCTION PHASE FOR CERTAIN BUILDING TYPES BASED ON THE SIZE OF THE BUILDING. PRE-ENHANCEMENT RADIO SURVEY REQUIREMENTS INCLUDE THE FOLLOWING BUILDING TYPES:
   - GREATER THAN (5) STORIES
   - BELOW GRADE PLANE
   - WOOD FRAMED CONSTRUCTION GREATER THAN 50,000 SF
   - CONCRETE OR METAL FRAMED CONSTRUCTION GREATER THAN 25,000 SF
9. REQUIRED FIRE FLOWS: A PROJECT'S MINIMUM FIRE FLOW FOR THE LARGEST BUILDING SHALL BE MEASURED AT (20) PSI RESIDUAL PRESSURE THAT IS AVAILABLE FOR FIREFIGHTING PER THE FLOWS ON TABLES B105.1 OR B105.2 OF THE INTERNATIONAL FIRE CODE (IFC), APPENDIX B. DISCLAIMER: IT IS THE RESPONSIBILITY OF THE DEVELOPER AND ENGINEER TO ENSURE THESE MINIMUM FIRE FLOW REQUIREMENTS FOR THE SITE ARE MET VIA FLOW TESTING AND WATER MODELING.
10. SPRINKER SYSTEMS: BUILDINGS EQUIPPED WITH ANY FIRE DEPARTMENT CONNECTIONS (FDC) SHALL HAVE A FIRE HYDRANT LOCATED WITHIN 100' OF THE FDC (REMOTE FDC IS PERMISSIBLE). FDC SHALL BE IDENTIFIED ON THE SITE VIA SIGNAGE.
11. GATES: IF GATES ARE PROVIDED ALONG ANY FIRE ACCESS ROAD/DRIVE, MINIMUM PASSABLE WIDTH SHALL NOT BE LESS THAN (20) FEET AND SHALL COMPLY WITH IFC APPENDIX D AND ROUND ROCK CODE OF ORDINANCES REGARDING EMERGENCY ACCESS SYSTEMS. GATES WILL REQUIRE A KNOX-BOX®KEY BOX THAT SHALL CONTAIN KEYS TO GAIN NECESSARY ACCESS AS REQUIRED BY THE FIRE CODE OFFICIAL.

Castle Garden Event Center

HOSE-LAY TO NEAREST FIRE HYDRANT
SCALE: 1"=500'

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STATE OF TEXAS
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REGISTERED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY PAUL H. MARTIN III, P.E. 104707 ON 11/10/2025. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Issue Date: November 6, 2025

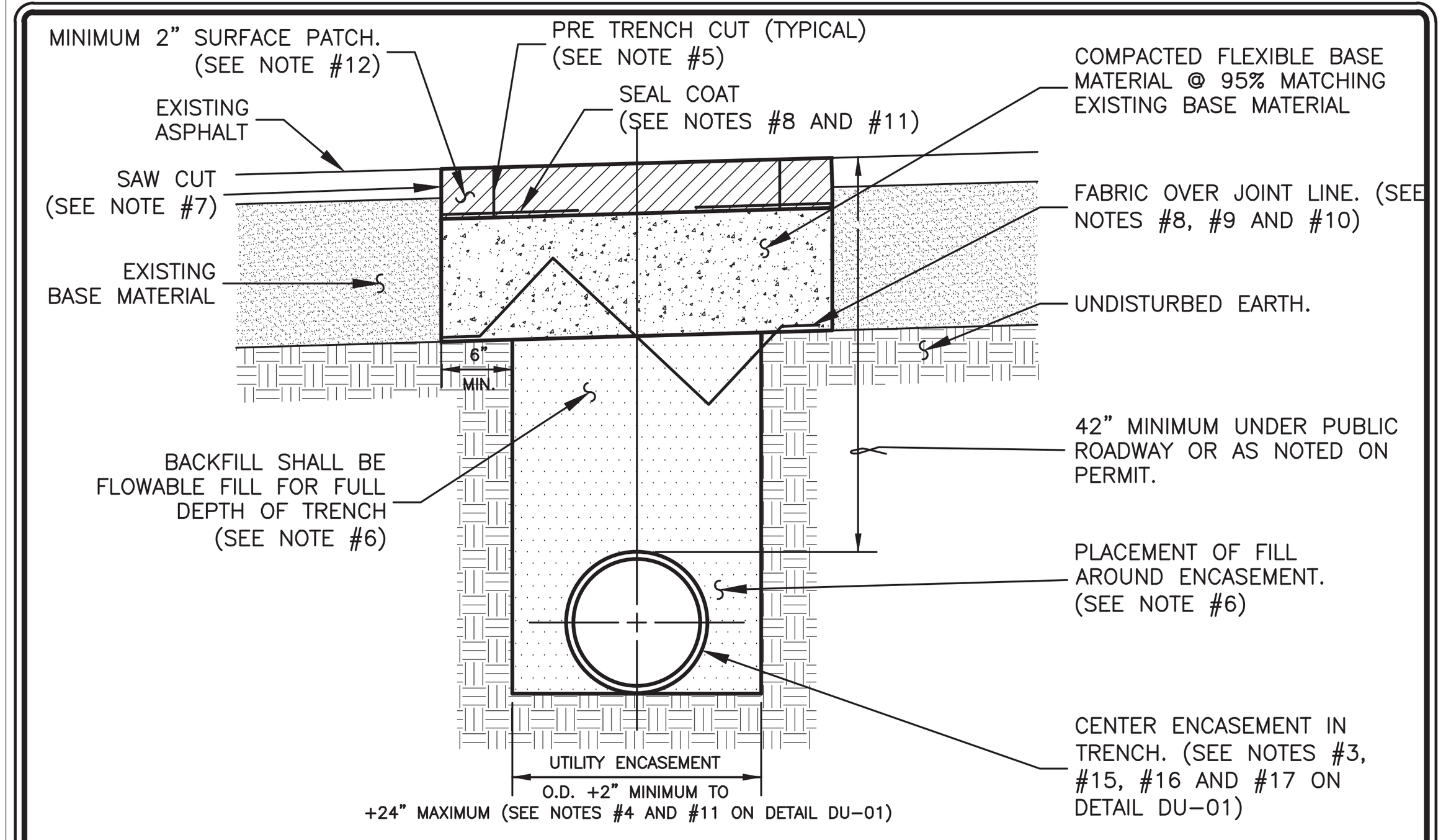
Revisions

No.	Date	Description
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title:
UTILITY & FIRE PROTECTION PLAN

Sheet No.:
C1.12

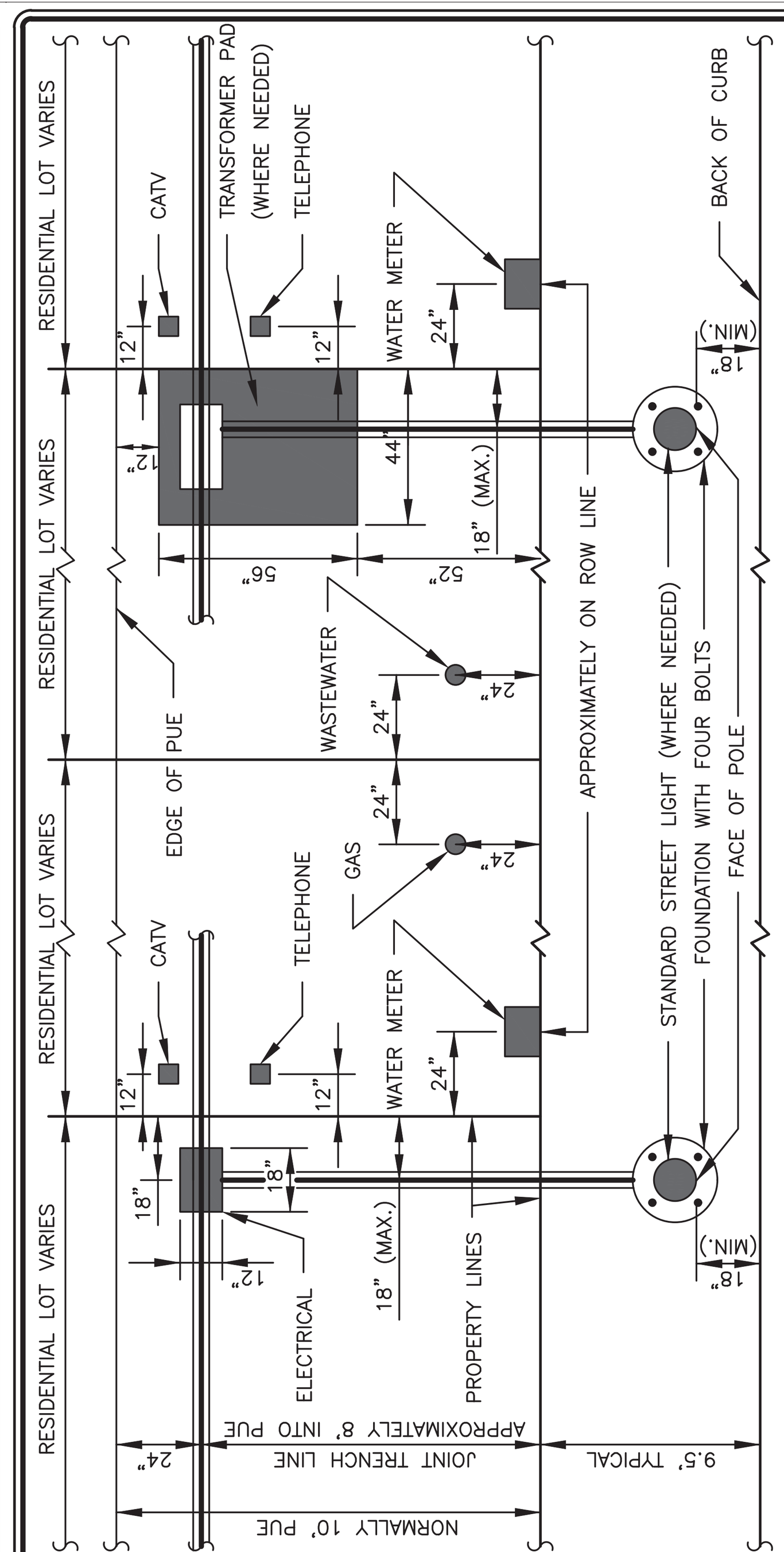


FOR ADDITIONAL GENERAL NOTES, SEE DETAIL DU-01

NOTES:

1. ALL TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. STEEL PLATES OF SUITABLE WEIGHT TO SPAN THE TRENCH FOR VEHICLE TRAFFIC, MUST BE AVAILABLE ON SITE BEFORE ANY PAVEMENT IS CUT.
3. STEEL PLATES SHALL BE CONTRACTOR PROVED AND PLACED AS NECESSARY FOR TRENCH SAFETY AND TO ALLOW FOR FLOWABLE FILL CURING TIME.
4. STEEL PLATES SHALL BE ANCHORED IN PLACE WHEN INSTALLED TO ASSURE NO DISPLACEMENT UNDER TRAFFIC.
5. SURFACE SHALL BE SAW CUT PRIOR TO EXCAVATION.
6. FLOWABLE FILL SHALL BE PLACED AROUND THE ENCASEMENT IN A PROCESS TO ASSURE NO DISPLACEMENT FROM BEING CENTERED IN THE TRENCH BOTTOM. FLOWABLE FILL SHALL BE STRUCK OFF AT THE TOP OF THE EXISTING BASE OR 2" BELOW EXISTING FINISHED SURFACE, WHICHEVER IS GREATER.
7. UPON COMPLETION OF THE BACKFILL, MAKE ADDITIONAL SAW CUTS, AS NECESSARY TO REMOVE EXISTING PAVEMENT AT A MINIMUM DEPTH OF 2" TO CREATE A 6" MINIMUM SHOULDER OR TO THE POINT WHERE EXISTING PAVEMENT IS NOT DAMAGED, WHICHEVER IS GREATER. SAW CUTS SHOULD HAVE A MINIMUM NUMBER OF ANGLE POINTS.
8. TACKING MATERIAL SHALL BE AC15PW OR A CORR APPROVED EQUAL.
9. TACK COAT A MINIMUM 12" WIDTH OF NON-WOVEN GEO-TEXTILE FABRIC OVER THE EXISTING BASE AND FLOWABLE FILL JOINT LINE WITH 0.3 GALS/SY, PLACING FABRIC BEFORE TACK SETS.
10. GEO-TEXTILE FABRIC SHALL WITHSTAND 300° FAHRENHEIT (TREVIRA SPUDBOND 011/120, CONTECH C-38NW, OR C.O.R.R. APPROVED EQUAL).
11. SINGLE COURSE SEAL COAT THE AREA TO BE HMAC PATCHED, WITH 0.33 GALS/SY TACK AND 3/8" CRUSHED LIMESTONE COVER AT 21 LBS/SY.
12. VACUUM UP LOOSE GRAVEL BEFORE PLACING SURFACE PATCH WITH HMAC HOT LAID; AT A MINIMUM THICKNESS OF 2".
13. TRENCH PAST THE BACK OF CURB TO MATCH THE AREA (SIDEWALK, TOP SOIL, SOD, ETC.), WITH JOINTS NOT TO ALIGN WITH TRENCH WALL.
14. IF SIDEWALK, CURB, CURB AND GUTTER, OR DRIVEWAY REQUIRES REMOVAL, THIS MUST BE REPLACED IN UNITS THAT ARE FROM SCORE JOINT TO SCORE JOINT. FULL DEPTH SAW CUT ALL JOINTS. DRILL AND EPOXY SET #4 DOWELS INTO THE STRUCTURE TO REMAIN AT MAXIMUM OF 18" ON CENTER.
15. ENCASEMENT MUST EXTEND 10' PAST THE BACK OF CURB, UNLESS OTHERWISE STATED IN THE PERMIT. BEDDING AND BACKFILL FROM THE POINT WHERE THE BASE ENDS TO THE END OF THE ENCASEMENT, SHALL ADHERE TO: PROPOSED PAVEMENT AREA TRENCH (PPAT) (DU-04) DETAIL.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: DU-03
APPROVED 04-01-10 DATE	ASPHALT PAVED AREA TRENCH (APAT) DETAIL	ROUND ROCK, TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		



GENERAL NOTES:

1. FOR ADDITIONAL GENERAL NOTES, SEE DETAIL DU-01.
2. SEE "UNPAVED AREA TRENCH (UAT) (DU-02) DETAIL".

TRANSFORMER PAD NOTES:

1. TRANSFORMER PAD SET AT GRADE 1/4" PER FOOT ABOVE OR BELOW WATER METER SURFACE OR PLANS FOR RETAINING WALL SUBMITTED FOR REVIEW TO THE C.O.R.R..

STREET LIGHTING NOTES:

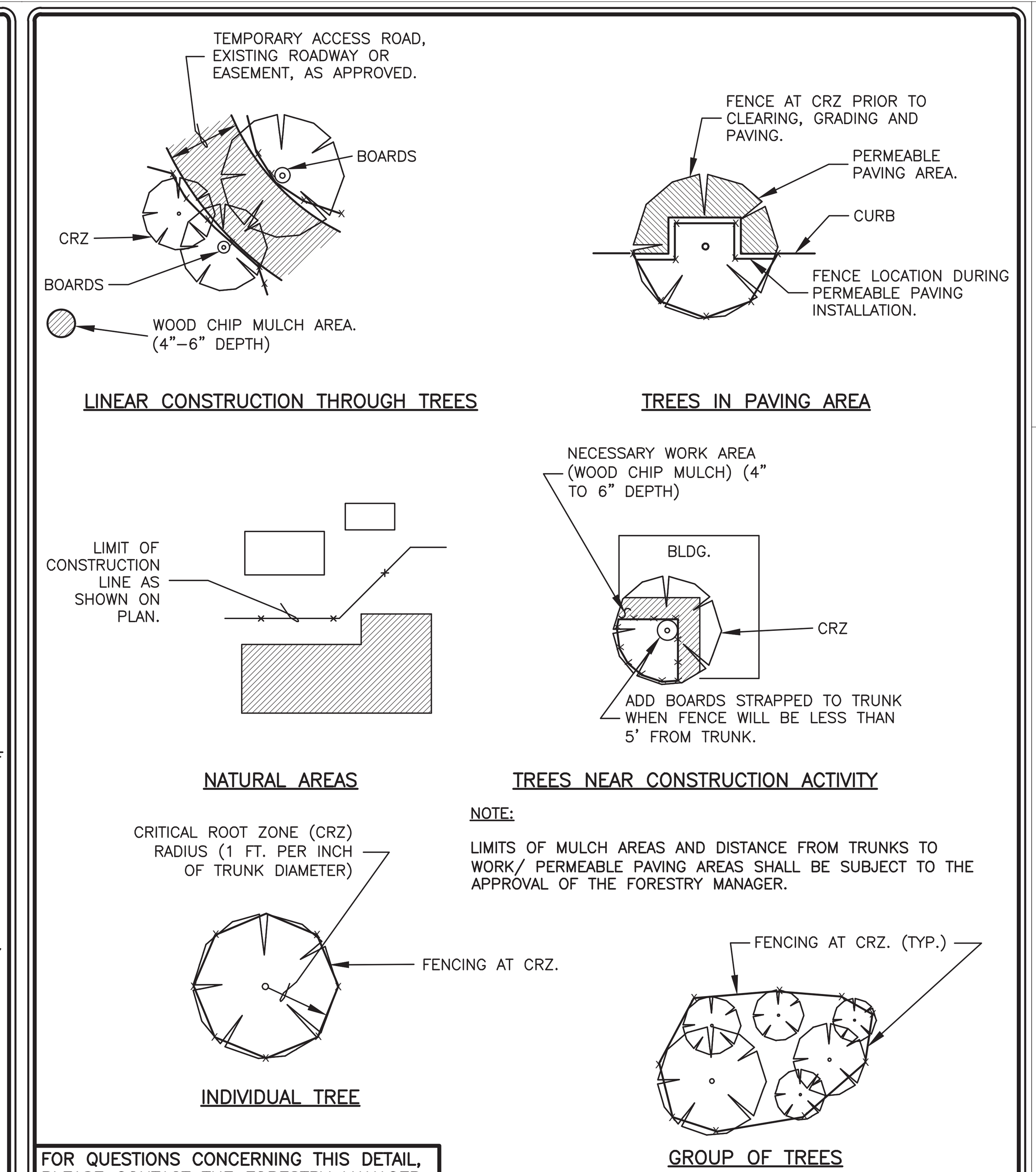
1. CRITERIA FOR STREET LIGHTING IN NEW DEVELOPMENTS ARE AS FOLLOWS:
 - LOCAL ROADWAY (300-350 FOOT SPACING WITH 100 WATT HIGH PRESSURE SODIUM (HPS) LAMP)
 - COLLECTOR ROADWAY (250-300 FOOT SPACING WITH 100 WATT HPS LAMP)
 - ARTERIAL ROADWAY (200-250 FOOT SPACING WITH 250 WATT HPS LAMP)
2. IN ADDITION TO THE SPACING SHOWN ABOVE, STREET LIGHTS ARE ALSO PROVIDED AT OR NEAR INTERSECTIONS AND AT OR NEAR THE END OF CUL-DE-SACS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: DU-06
APPROVED 04-01-10 DATE	STANDARD UTILITY ASSIGNMENTS WITHIN RESIDENTIAL DEVELOPMENT DETAIL	ROUND ROCK, TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING. SEE: TREE PROTECTION TREE WELLS (EC-02), TREE PROTECTION TREE LOCATION (EC-03) AND TREE PROTECTION FENCE-CHAIN LINK (EC-04).
3. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE.
4. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIPLINES.
6. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE (CRZ), WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   - 6A. SOIL COMPACTION IN CRZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL.
   - 6B. CRZ DISTURBANCES DUE TO GRADE CHANGES OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE FORESTRY MANAGER.
   - 6C. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT
   - 6D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIPLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
   - 7A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
   - 7B. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   - 7C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
   - 7D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES.
8. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
10. ALL GRADING WITHIN CRZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
12. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRZ.
15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRZ OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
17. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
18. ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES.
19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO THE CITY OF ROUND ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.
21. PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL.
22. DEVIATIONS FROM THE ABOVE REQUIREMENTS AND NEGLIGENT DAMAGE TO TREES MAY BE CONSIDERED AS ORDINANCE VIOLATIONS.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-01
APPROVED 03-25-11 DATE	TREE PROTECTION NOTES	ROUND ROCK, TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

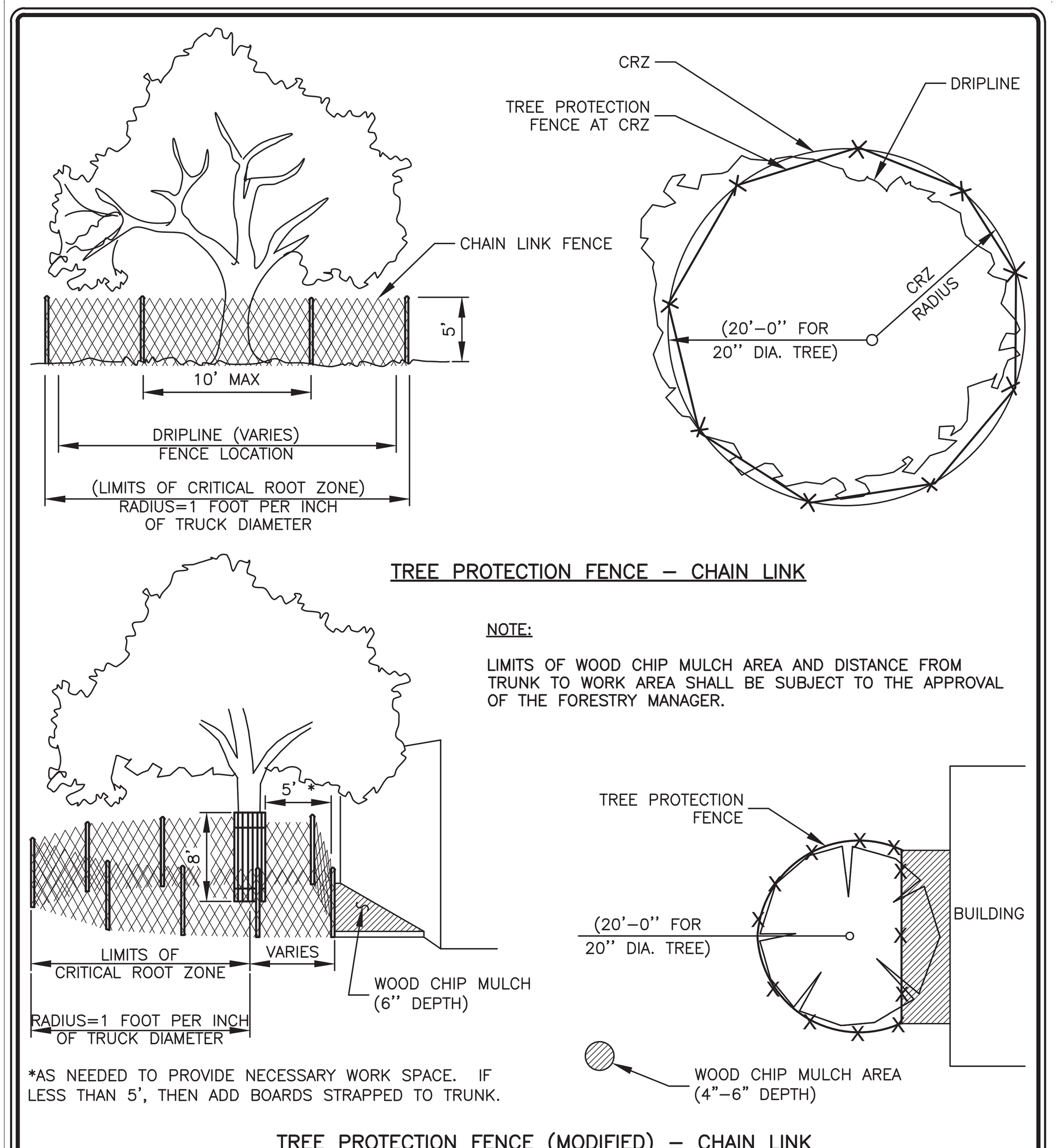


NOTE:

LIMITS OF MULCH AREAS AND DISTANCE FROM TRUNKS TO WORK/ PERMEABLE PAVING AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-03
APPROVED 03-25-11 DATE	TREE PROTECTION FENCE LOCATIONS	ROUND ROCK, TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		



TREE PROTECTION FENCE – CHAIN LINK

NOTE:

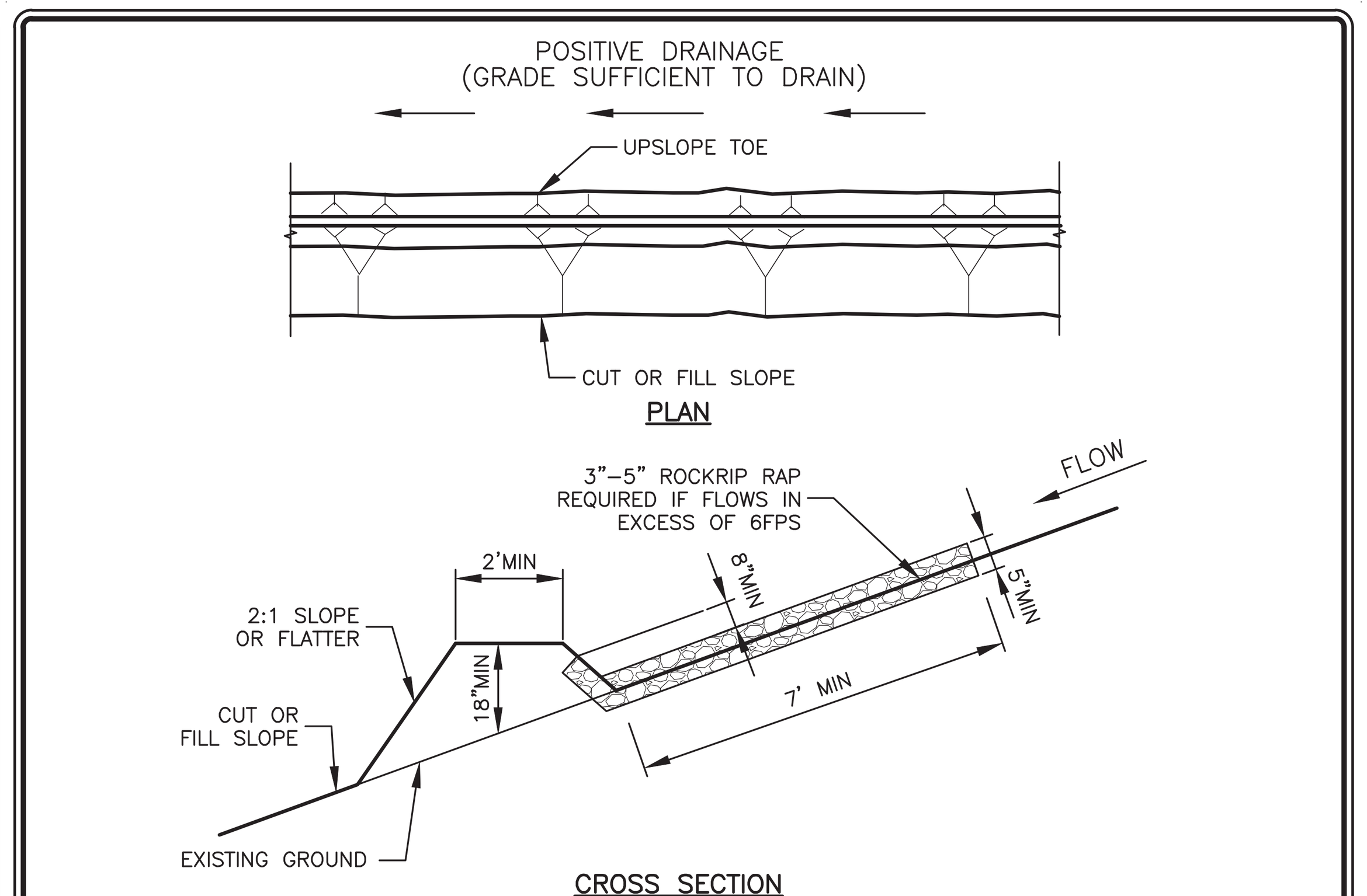
LIMITS OF WOOD CHIP MULCH AREA AND DISTANCE FROM TRUNK TO WORK AREA SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

*AS NEEDED TO PROVIDE NECESSARY WORK SPACE. IF LESS THAN 5', THEN ADD BOARDS STRAPPED TO TRUNK.

TREE PROTECTION FENCE (MODIFIED) – CHAIN LINK

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

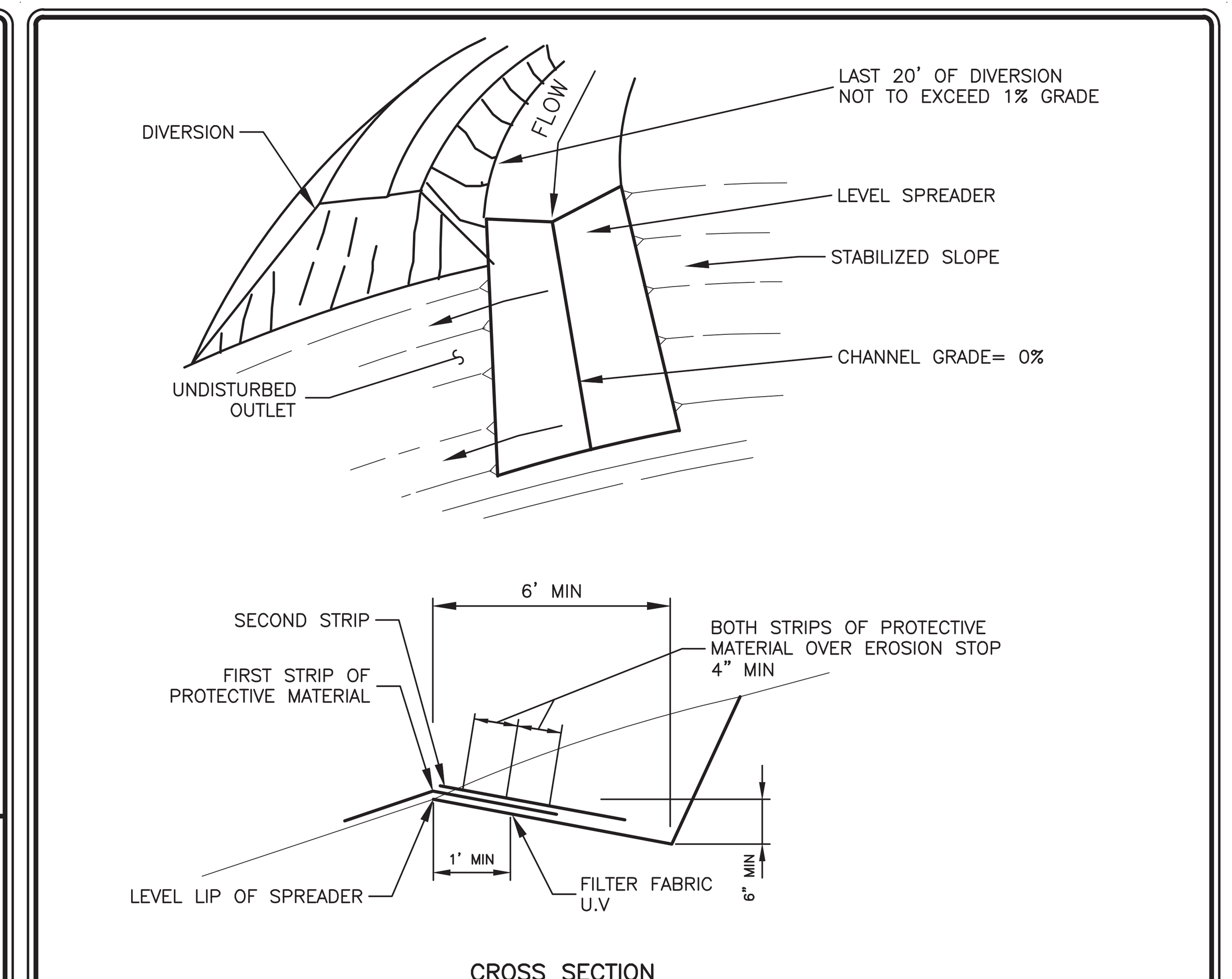
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-04
APPROVED 03-25-11 DATE	TREE PROTECTION FENCE CHAIN LINK	ROUND ROCK, TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		



NOTES:

1. ALL DIKES SHALL BE MACHINE COMPACTED.
2. ALL DIVERSION DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
2A. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED AREA SHALL HAVE ITS OUTLET FLOW DIRECTED TO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.
2B. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE, SUCH AS A ROCK BERM, BRUSH BERM, STONE OUTLET STRUCTURE, SEDIMENT TRAP, OR SEDIMENT BASIN OR TO AN AREA PROTECTED BY ANY OF THESE PRACTICES.
3. UNLESS OTHERWISE SPECIFIED, EROSION STABILIZATION SHALL BE OPEN GRADED ROCK 3-5 INCHES IN DIAMETER PLACED IN A 5-INCH THICK LAYER AND EMBEDDED INTO THE SOIL.
4. INSPECTION SHALL BE CONDUCTED WEEKLY OR AFTER EACH RAINFALL EVENT.

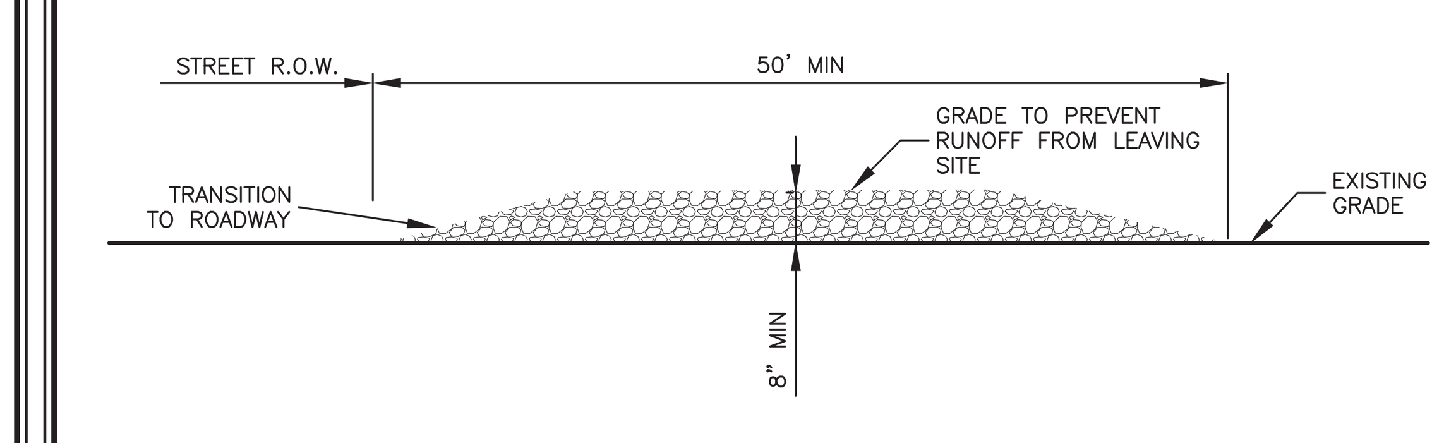
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-06
APPROVED 03-25-11 DATE	DIVERSION DIKE DETAIL	ROUND ROCK, TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		



NOTES:

1. LEVEL SPREADERS SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE ENGINEER.
2. CONSTRUCT LEVEL LIP ON ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF SEDIMENT-FREE RUNOFF (CONVERTING CHANNEL FLOW TO SHEET FLOW)
3. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL (NOT ON FILL).
4. A MATTING EROSION STOP SHALL BE PLACED VERTICALLY AND AT LEAST 6'' DEEP IN A SILT TRENCH 1' BACK OF AND PARALLEL WITH THE LIP. THIS EROSION STOP SHALL EXTEND THE ENTIRE LENGTH OF THE LEVEL LIP AND SHALL BE TRIMMED AFTER BACK FILLING WITH TAMPED SOIL, SO THAT THE UPPER EDGE IS FLUSH WITH THE SOIL SURFACE.
5. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING 2 STRIPS OF JUTE, EXCELSIOR, OR OTHER APPROVED PROTECTIVE MATERIAL AS SHOWN ABOVE.
6. THE ENTRANCE CHANNEL SHALL NOT EXCEED A 1% GRADE FOR AT LEAST 20 FEET BEFORE ENTERING SPREADER.
7. STORM RUNOFF CONVERTED TO SHEET FLOW SHALL OUTLET ONTO STABILIZED AREAS. WATER SHALL NOT BE RECONCENTRATED IMMEDIATELY BELOW THE POINT OF DISCHARGE.
8. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-08
APPROVED 03-25-11 DATE	LEVEL SPREADER DETAIL	ROUND ROCK, TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		



CROSS SECTION

NOTES:

1. STONE SIZE SHALL BE 3" – 8" OPEN GRADED ROCK.
2. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
3. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
4. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.
6. AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-09
APPROVED 03-25-11 DATE	STABILIZED CONSTRUCTION ENTRANCE DETAIL	ROUND ROCK, TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

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REGISTERED PROFESSIONAL ENGINEER

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Issue Date: November 6, 2025

Revisions

No.	Date	Description
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

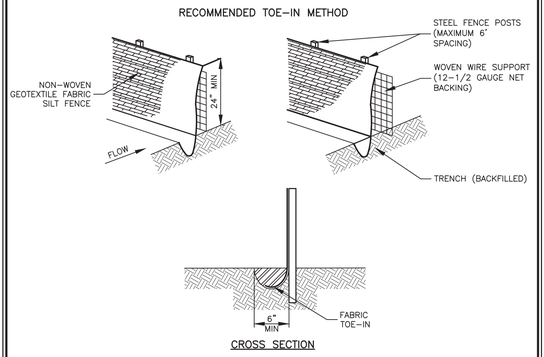
M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title:

STANDARD DETAILS

Sheet No.:

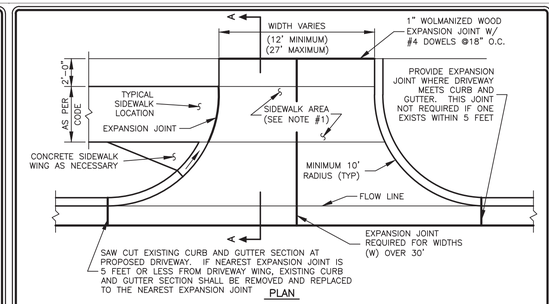
C2.0

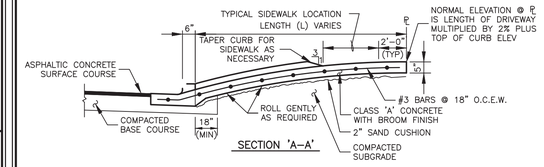


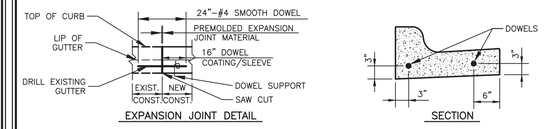
NOTES:

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

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-25-11 DATE	SILT FENCE DETAIL	EC-10
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK, TEXAS PURPOSE, PASSION, PRIDE

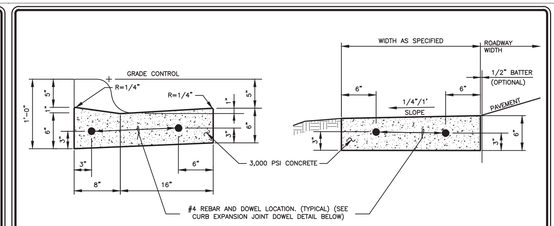


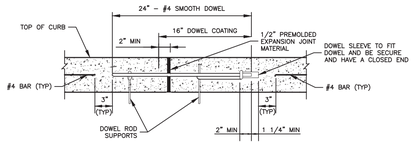




NOTE:
1. THE SIDEWALK AREA OF THE DRIVEWAY SHALL SLOPE TOWARD THE STREET PAVING AT NO MORE THAN 2%.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 04-01-10 DATE	CONCRETE DRIVEWAY DETAIL (COMMERCIAL OR MULTI-FAMILY)	ST-03
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK, TEXAS PURPOSE, PASSION, PRIDE

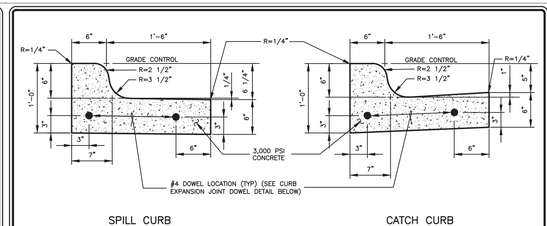


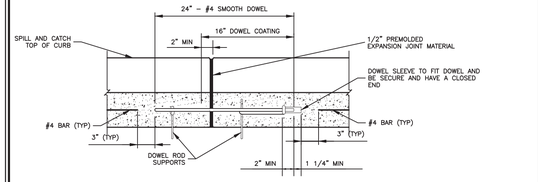


NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C309 AND D1752. BROOM FINISH EXPOSED SURFACE.
2. CONTROL JOINT SPACING SHALL NOT EXCEED 10'-0'.
3. EXPANSION JOINTS AS PER STANDARD ASTM D-1752.
4. EXPANSION JOINT INTERVALS NOT TO EXCEED 40'-0" FOR ALL CURBS AND CONSTRUCTION METHODS.
5. ALL CURBS SHALL HAVE A MINIMUM OF 4" OF COMPACTED FLEXIBLE BASE BETWEEN BOTTOM OF CURB AND TOP SUBGRADE THAT SHALL EXTEND A MINIMUM OF 18" BEHIND BACK OF CURB. TOTAL DEPTH OF FLEXIBLE BASE UNDER AND BEHIND CURB SHALL BE: (TOTAL DEPTH OF FLEXIBLE BASE) LESS (6-INCHES).
6. ALL CURBS SHALL CONFORM TO THESE DETAILS INDEPENDANT OF THE CONSTRUCTION METHODS USED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 04-01-10 DATE	LAYDOWN AND RIBBON CURB DETAIL (WITH CURB EXPANSION JOINT DOWEL DETAIL)	ST-04
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK, TEXAS PURPOSE, PASSION, PRIDE

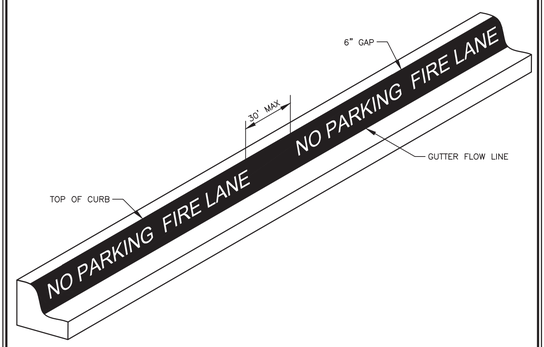




NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C309 AND D1752. BROOM FINISH EXPOSED SURFACE.
2. CONTROL JOINT SPACING SHALL NOT EXCEED 10'-0'.
3. EXPANSION JOINTS AS PER STANDARD ASTM D-1752.
4. EXPANSION JOINT INTERVALS NOT TO EXCEED 40'-0" FOR ALL CURBS AND CONSTRUCTION METHODS.
5. ALL CURBS SHALL HAVE A MINIMUM OF 4" OF COMPACTED FLEXIBLE BASE BETWEEN BOTTOM OF CURB AND TOP SUBGRADE THAT SHALL EXTEND A MINIMUM OF 18" BEHIND BACK OF CURB. TOTAL DEPTH OF FLEXIBLE BASE UNDER AND BEHIND CURB SHALL BE: (TOTAL DEPTH OF FLEXIBLE BASE) LESS (6-INCHES).
6. ALL CURBS SHALL CONFORM TO THESE DETAILS INDEPENDANT OF THE CONSTRUCTION METHODS USED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 04-01-10 DATE	SPILL AND CATCH CURB DETAIL (WITH CURB EXPANSION JOINT DOWEL DETAIL)	ST-05
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK, TEXAS PURPOSE, PASSION, PRIDE



NOTE:

FIRE LANE STRIPING TO BE 6" WIDE RED PAINT WITH "NO PARKING FIRE LANE" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED GREATER THAN 30' APART. STRIPING TO BE PAINTED ON THE FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON THE PARKING SURFACE WHEN IT IS NOT.

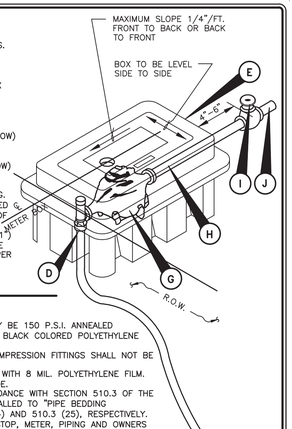
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 04-01-10 DATE	FIRE LANE MARKING DETAIL	ST-13
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK, TEXAS PURPOSE, PASSION, PRIDE

MATERIAL LIST:

A. SERVICE SADDLE REQUIRED. SERVICE SADDLE TO BE EPOXY COASTED WITH DUAL STAINLESS STEEL BANDS.
B. 1" CORPORATION STOP – SERVICE PIPE OUTLET. (SEE NOTE #2)
C. 1" SERVICE PIPE.
D. LOCKING ANGLE METER STOP; SERVICE PIPE INLET X SWIVEL COUPLING NUT OUTLET:
- FOR 5/8" AND 3/4" METERS: 1" X 3/4"
- FOR 1" METERS: 1" X 1"
- SEE NOTE #2

E. PLASTIC RECTANGULAR METER BOX. (SEE TABLE BELOW)
F. PIPE CASING WHERE APPLICABLE. (AS PER DETAIL WT-01)
G. WATER METER, CENTERED IN BOX.
H. WATER METER COUPLING; MALE I.P.T. X SWIVEL COUPLING NUT:
- FOR 5/8" AND 3/4" METERS: 3/4" X 8 1/2" LONG.
- FOR 1" METERS: LENGTH OF PIPE TO BE DETERMINED BY CONTRACTOR. EXTEND PIPE TO 4"-6" OUTSIDE OF METER BOX.

I. BRONZE GATE VALVE: NON-RISING STEM (3/4" OR 1") FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER CITY OF ROUND ROCK STANDARDS).
J. 3/4" OR 1" PIPE MEETING CITY OF ROUND ROCK PLUMBING CODE REQUIREMENTS.



NOTES:

1. SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 P.S.I. ANNEALED SEAMLESS TYPE "K" COPPER TUBING OR 200 P.S.I. BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. ALL STAINLESS STEEL INSERTS THAT COME WITH COMPRESSION FITTINGS SHALL NOT BE USED ON ANY CONNECTIONS.
3. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
4. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
5. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
6. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
7. SLOTS PROVIDED IN METER BOX TO ACCOMMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
8. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE C.O.R.R.

PART NUMBER	SERIES	COLOR	HEIGHT	WIDTH	LENGTH
DFW36C-12-BODY*	36C	BLACK	12"	TOP = 13-3/4"	TOP = 18-7/8"
DFW36C-AF1EQA-LID*	36C	BLACK	1-7/8"	LID = 10-3/16"	LID = 15-9/16"
DFW36C-12-AF1EQA*	36C	BLACK	12"	BASE = 10-1/2"	BASE = 18-7/8"

* MANUFACTURED BY DFW PLASTICS INCORPORATED OR APPROVED EQUAL.

METER SIZE	LENGTH
5/8"	7 1/2"
3/4"	7 1/2"
1"	11"

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	SINGLE 5/8", 3/4" OR 1" WATER METER DETAIL	WT-02
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS Planning and Development Services

Martin Wallin
Structural Engineering
PO Box 202043
Austin, Texas 78720
512-368-4088
www.martinandwallin.com
TX Eng Firm F-12503
AUSTIN ◆ DENVER

Castle Garden Event Center
Site Development

3904 Oak Ridge Dr.
Round Rock, Tx. 78681

PAUL H. MARTIN III
104704
STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY PAUL H. MARTIN III, P.E. 104707 ON 11/10/2025. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Issue Date: November 6, 2025

Revisions

No.	Date	Description
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

M&W Project Number: 240139
Drawn By: TH
Designed By: PHM
Checked By: PHM

Sheet Title:
STANDARD DETAILS

Sheet No.:
C2.1

Attachment G – Inspection, Maintenance, Repair and Retrofit Plan

Attachment G – Inspection, Maintenance, Repair, and Retrofit Pl an

This section has been prepared to provide a description and schedule for the performance of maintenance on permanent pollution abatement measures. It should be noted that the timing and procedures presented herein are general guidelines. Adjustments to timing and procedures may have to be made depending on weather and environmental conditions but may not be altered without TCEQ approval.

I understand that I am responsible for maintenance of Permanent Pollution Abatement Measures included in this plan until such time as the maintenance obligation is either assumed in writing by another entity upon transfer of ownership. I, the owner, have read and understand the requirements of the attached Maintenance Plan and Schedule.

Sriramam Anusuri
3904 OAK RIDGE DR LLC

10/24/25
Date

The undersigned Registered Professional Engineer is familiar with the requirements of TCEQ's Edwards Aquifer Rules. This certification in no way relieves the owner or operator of the facility of his/her duty to prepare and fully implement this Inspection, Maintenance, Repair, and Retrofit Plan in accordance with the Edwards Aquifer Rules. This Plan is valid only to the extent that the facility owner or operator maintains, tests, and inspects equipment, containment, and other devices as prescribed in this Plan.

Through this certification, I hereby attest that: (1) I am familiar with the requirements of the Edwards Aquifer rules; (2) I have designed the sediment retention pond; and (3) this Plan has been prepared in accordance with good engineering practices, including consideration of applicable industry standards, and with the requirements of the applicable rules.

Paul Martin, PE
PE Registration 104704
Martin & Wallin LLC
Engineering Firm F-12503

10/24/25
Date

INSPECTIONS

Once construction is completed, a Texas Licensed PE must certify in writing that the permanent BMPs were constructed as designed. The certification must be submitted to the TCEQ regional office within 30 days of site completion.

After the certification has been submitted to TCEQ, the measures in this section must start. A qualified person shall inspect Best Management Practice (BMP) permanent pollution control measures quarterly. A record of the inspection, including the name of the inspector, date of the inspection, major observations, and corrective actions undertaken as a result of the inspection will be recorded on the form on the attached page (or similar). Records shall be maintained for three years.

The inspector should look for general condition, erosion, scouring, the presence of debris, and structural integrity. Any needed corrective actions shall be indicated on the inspection log and shall be carried forward on the log until the corrective actions have been completed, as indicated by a completion date. Damage to structural elements shall be repaired immediately.

MAINTENANCE AND REPAIR

The following maintenance shall be conducted on permanent BMPs at the site:

- Eroded and scoured areas shall be repaired as identified in quarterly inspections.
- The basin, side slopes, and embankment shall be mowed to prevent the growth of woody species and to control weeds. Mowing shall occur at least twice per year, or more frequently if vegetation exceeds 18 inches.
- Litter and debris shall be removed at least twice a year.
- Sediment shall be removed from the basin at least every 5 years, when the sediment depth exceeds 6 inches, and when the sediment interferes with basin operation.
- BMPs found to not be working shall be repaired, replaced, and/or retrofitted as needed.
- Permeable paving shall be swept/vacuumed and weeded to prevent clogged joints.
- The cistern shall be inspected for obvious signs of integrity failure.
- The usage of fertilizers, herbicides, and pesticides will comply with all manufacturer's directions.

Inspection Form – Castle Garden Event Center Post Construction

Pollution Prevention Measure	In compliance at time of inspection	Corrective Action Required	
		Description	Date Completed
Sediment control basin			
Diverter Berm			
Permeable paving			
Cistern			
Evidence of Erosion			
Note areas where erosion and scouring observed			
Significant Observations			
Sediment discharges from site			
BMPs requiring maintenance			
BMPs requiring modification			
Additional BMPs required			
Other			

Inspector should look for general condition, erosion, scouring, the presence of debris, structural integrity.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

"I further certify I am an authorized signatory in accordance with the provisions of 30 TAC §305.128."

_____ _____ _____

Inspector's Name Inspector's Signature Date

Attachment H – Pilot-Scale Field Testing Plan

Not applicable

Attachment I – Measures for Minimizing Surface Stream Contamination

Attachment I – Measures for Minimizing Surface Stream Contamination

Stormwater flows from a majority of the site will be routed to a sediment basin, which is designed to reduce sediment discharges from the site. The pond will also effectively decrease stormwater flow velocities from the site.

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 Ram Anusuri,
Print Name

Founder/Manager,
Title - Owner/President/Other

of 3904 OAK RIDGE DR LLC ,
Corporation/Partnership/Entity Name

have authorized Paul Martin
Print Name of Agent/Engineer

of Martin & Wallin
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

03/25/25
Date

THE STATE OF TX §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Ram Anusuri 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 25 day of MAR 2025

NOTARY PUBLIC

DURGA PRASAD RAGHUPATHY
Notary Public, State of Texas
Comm. Expires 06-25-2027
Notary ID 132064040

Durga Raghupathy
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 6/25/2027

Application Fee Form TCEQ-0574

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: CASTLE GARDEN EVENT CENTER
Regulated Entity Location: 3904 OAK RIDGE DR, ROUND ROCK, TX 78681
Name of Customer: 8904 OAK RIDGE DR LLC
Contact Person: RAM ANUSURI Phone: 510-282-0891
Customer Reference Number (if issued):CN
Regulated Entity Reference Number (if issued):RN
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
☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	*Size*		*Fee Due*
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$	
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$	
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$	4,000
Sewage Collection System	L.F.	$	
Lift Stations without sewer lines	Acres	$	
Underground or Aboveground Storage Tank Facility	Tanks	$	
Piping System(s)(only)	Each	$	
Exception	Each	$	
Extension of Time	Each	$	

Signature: _____ Date: 10/24/25

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

Core Data Form TCEQ 10400

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing 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.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ 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		**RN**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* — *If new Customer, enter previous Customer below:*

3904 OAK RIDGE DR LLC

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
805412941	32093646068		

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:							
	2929 Portulaca Dr						
	City	Round Rock	**State**	TX	**ZIP**	78681	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	sanusuri@gmail.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(510) 282-0891		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core 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.)*

Castle Garden Event Center

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	3904 Oak Ridge Dr							
	City	Round Rock	**State**	TX	**ZIP**	78681	**ZIP + 4**	
24. County								

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	31	16.61 N	97	44	38 W

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)
6512		531120	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Event center rental

34. Mailing Address:	**3904 Oak Ridge Dr.**							
	City	**Round Rock**	**State**	**TX**	**ZIP**	**78681**	**ZIP + 4**	
35. E-Mail Address:	**sanusuri@gmail.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(510) 282-0891		( ) -

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.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other:
				Edwards Aquifer

SECTION IV: Preparer Information

40. Name:	Karen Miller	**41. Title:**	Senior Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512 **)** 468-7325		**( ) -**	kmiller@bbaengineering.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:	Castle Garden Event Center	**Job Title:**	Manager	
Name *(In Print):*	Sriramam Anusuri (3904 OAK RIDGE DR LLC)		**Phone:**	**(** 510 **)** 282- **891**
Signature: Ram anusuri	Ram anusuri		**Date:**	Dec 13, 2025