

# **Contributing Zone Plan Permit Application**

## **Sandstone Residential Subdivision**

9223 Sandstone St  
Austin, TX 78737

Prepared for:

**JOLLY'S Development Group LLC**

10204 Oak Grove Cir  
Austin, TX 78736-7747

Prepared by:



2216 College Avenue Austin, Texas 78704  
Phone: (512) -826-3711  
F-19735 TBPE FIRM REGISTRATION NO.

# Contributing Zone Plan Checklist

**Edwards Aquifer Application Cover Page (TCEQ-20705)**

**Contributing Zone Plan Application (TCEQ-10257)**

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– **Storm Water Pollution Prevention Plan (SWPPP)**

**-OR-**

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Attachment B - Potential Sources of Contamination

Attachment C - Sequence of Major Activities

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Attachment I - Inspection and Maintenance for BMPs

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**Copy of Notice of Intent (NOI)**

**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)**

**TCEQ-20705 Attachments**

**Edwards Aquifer Application Cover**

# Texas Commission on Environmental Quality

## Edwards Aquifer Application Cover Page

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### Our Review of Your Application

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

### Administrative Review

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

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

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

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

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

### Technical Review

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

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

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

**Mid-Review Modifications**

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

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

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

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

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

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

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

<b>1. Regulated Entity Name:</b> Sandstone Residential Subdivision					<b>2. Regulated Entity No.:</b> RN111806766					
<b>3. Customer Name:</b> JOLLY’S Development Group LLC					<b>4. Customer No.:</b> CN606180057					
<b>5. Project Type:</b> (Please circle/check one)		<input checked="" type="radio"/> New	Modification		Extension		Exception			
<b>6. Plan Type:</b> (Please circle/check one)		WPAP	<input checked="" type="radio"/> CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
<b>7. Land Use:</b> (Please circle/check one)		<input checked="" type="radio"/> Residential		Non-residential			<b>8. Site (acres):</b>		9.999 AC	
<b>9. Application Fee:</b>		\$3,000.0		<b>10. Permanent BMP(s):</b>			Retention/Irrigation Pond			
<b>11. SCS (Linear Ft.):</b>		N/A		<b>12. AST/UST (No. Tanks):</b>			N/A			
<b>13. County:</b>		Travis		<b>14. Watershed:</b>			Slaughter 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](http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf)

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

<b>Austin Region</b>			
<b>County:</b>	<b>Hays</b>	<b>Travis</b>	<b>Williamson</b>
Original (1 req.)	—	_1_	—
Region (1 req.)	—	_2_	—
County(ies)	—	_1_	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek	<input type="checkbox"/> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek	<input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills	<input type="checkbox"/> Austin <input type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input type="checkbox"/> Georgetown <input type="checkbox"/> Jerrell <input type="checkbox"/> Leander <input type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <input type="checkbox"/> Round Rock

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

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

Thomas Loomis, P.E.

Print Name of Customer/Authorized Agent



09/17/2023

Signature of Customer/Authorized Agent

Date

**\*\*FOR TCEQ INTERNAL USE ONLY\*\***

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



**TCEQ-10257 Attachments**

**Contributing Zone Plan Application**

# Contributing Zone Plan Application

## Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

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

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

## Signature

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

Print Name of Customer/Agent: Thomas Loomis, P.E.

Date: 9/17/2023

Signature of Customer/Agent:



Regulated Entity Name: Sandstone Residential Subdivision

## Project Information

1. County: Travis
2. Stream Basin: Slaughter Creek
3. Groundwater Conservation District (if applicable): #87 - Southwestern Travis County GCD-11/5/2019

4. Customer (Applicant):

Contact Person: J.J. Clark

Entity: JOLLY'S Development Group LLC

Mailing Address: 10204 Oak Grove Cir

City, State: Austin

Telephone: (512) 650-5455

Zip: 78736-7747

Fax: N/A

Email Address: tfc.inc@gmail.com

5. Agent/Representative (If any):

Contact Person: Thomas Loomis, P.E.

Entity: Saxon Loomis Consulting Group

Mailing Address: 2216 College Avenue

City, State: Austin

Zip: 78704

Telephone: (512) 917-7265

Fax: \_\_\_\_\_

Email Address: Tom.loomis@saxonloomis.com

6. Project Location:

- The project site is located inside the city limits of \_\_\_\_\_.
- The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Austin ETJ.
- The project site is not located within any city's limits or ETJ.

7.  The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The physical address of the project is 9223 Sandstone Stree. Which is 2277 ft. south from the intersection of Ledgstone Terrace and Honeycom DR at the end of Sandstone St. The Lat is 30°13'4.68"N and Long is 97°55'36.12"W

8.  **Attachment A - Road Map.** A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

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

- Project site boundaries.
- USGS Quadrangle Name(s).

10.  **Attachment C - Project Narrative.** A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

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

11. Existing project site conditions are noted below:

- Existing commercial site
- Existing industrial site
- Existing residential site
- Existing paved and/or unpaved roads
- Undeveloped (Cleared)
- Undeveloped (Undisturbed/Not cleared)
- Other: \_\_\_\_\_

12. The type of project is:

- Residential: # of Lots: 9
- Residential: # of Living Unit Equivalents: \_\_\_\_\_
- Commercial
- Industrial
- Other: \_\_\_\_\_

13. Total project area (size of site): 9.999 Acres

Total disturbed area: 9.999 Acres

14. Estimated projected population: N/A

15. The amount and type of impervious cover expected after construction is complete is shown below:

**Table 1 - Impervious Cover**

<i><b>Impervious Cover of Proposed Project</b></i>	<i><b>Sq. Ft.</b></i>	<i><b>Sq. Ft./Acre</b></i>	<i><b>Acres</b></i>
Structures/Rooftops	32,000.00	÷ 43,560 =	0.735
Parking	3,200.00	÷ 43,560 =	0.073
Other paved surfaces	46,111.00	÷ 43,560 =	1.059
Total Impervious Cover	81,311.00	÷ 43,560 =	1.867

**Total Impervious Cover**  $\frac{81,311.00}{43,556.44} \times 100 = 18.67\%$  **Impervious Cover**

- 16.  **Attachment D - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.
- 17.  Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

## **For Road Projects Only**

**Complete questions 18 - 23 if this application is exclusively for a road project.**

N/A

18. Type of project:

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

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

- Concrete
- Asphaltic concrete pavement
- Other: \_\_\_\_\_

20. Right of Way (R.O.W.):

Length of R.O.W.: \_\_\_\_\_ feet.  
Width of R.O.W.: \_\_\_\_\_ feet.  
 $L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$

21. Pavement Area:

Length of pavement area: \_\_\_\_\_ feet.  
Width of pavement area: \_\_\_\_\_ feet.  
 $L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$   
Pavement area \_\_\_\_\_ acres  $\div$  R.O.W. area \_\_\_\_\_ acres  $\times 100 = \text{_____}\%$  impervious cover.

22.  A rest stop will be included in this project.

A rest stop will not be included in this project.

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

## **Stormwater to be generated by the Proposed Project**

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

**Wastewater to be generated by the Proposed Project**

25.  Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

N/A

26. Wastewater will be disposed of by:

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

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

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

Sewage Collection System (Sewer Lines):

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

Existing.

Proposed.

N/A

**Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons**

*Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.*

N/A

27. Tanks and substance stored:

**Table 2 - Tanks and Substance Storage**

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
1			
2			
3			

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
4			
5			

**Total x 1.5 = \_\_\_\_\_ Gallons**

28.  The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

**Attachment G - Alternative Secondary Containment Methods.** Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

29. Inside dimensions and capacity of containment structure(s):

**Table 3 - Secondary Containment**

<i>Length (L)(Ft.)</i>	<i>Width(W)(Ft.)</i>	<i>Height (H)(Ft.)</i>	<i>L x W x H = (Ft3)</i>	<i>Gallons</i>

**Total: \_\_\_\_\_ Gallons**

30. Piping:

- All piping, hoses, and dispensers will be located inside the containment structure.
- Some of the piping to dispensers or equipment will extend outside the containment structure.
- The piping will be aboveground
- The piping will be underground

31.  The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: \_\_\_\_\_.

32.  **Attachment H - AST Containment Structure Drawings.** A scaled drawing of the containment structure is attached that shows the following:

- Interior dimensions (length, width, depth and wall and floor thickness).
- Internal drainage to a point convenient for the collection of any spillage.
- Tanks clearly labeled
- Piping clearly labeled

- Dispenser clearly labeled
33.  Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.
- In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.
- In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

## **Site Plan Requirements**

**Items 34 - 46 must be included on the Site Plan.**

34.  The Site Plan must have a minimum scale of 1" = 400'.  
Site Plan Scale: 1" = 40'.
35. 100-year floodplain boundaries:
- Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
- No part of the project site is located within the 100-year floodplain.  
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA MAP PANEL NO. 48453C0560J, JANUARY 1, 2020.
36.  The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
- The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
37.  A drainage plan showing all paths of drainage from the site to surface streams.
38.  The drainage patterns and approximate slopes anticipated after major grading activities.
39.  Areas of soil disturbance and areas which will not be disturbed.
40.  Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41.  Locations where soil stabilization practices are expected to occur.
42.  Surface waters (including wetlands).  
 N/A



43.  Locations where stormwater discharges to surface water.  
 There will be no discharges to surface water.
44.  Temporary aboveground storage tank facilities.  
 Temporary aboveground storage tank facilities will not be located on this site.
45.  Permanent aboveground storage tank facilities.  
 Permanent aboveground storage tank facilities will not be located on this site.
46.  Legal boundaries of the site are shown.

### ***Permanent Best Management Practices (BMPs)***

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

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

- The site will be used for low density single-family residential development and has 20% or less impervious cover.
- The site will be used for low density single-family residential development but has more than 20% impervious cover.
- The site will not be used for low density single-family residential development.

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

- Attachment I - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
- The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- The site will not be used for multi-family residential developments, schools, or small business sites.

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

- A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

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

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

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

N/A

55.  **Attachment M - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

N/A

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

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

N/A

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

N/A

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

N/A

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

59.  The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be

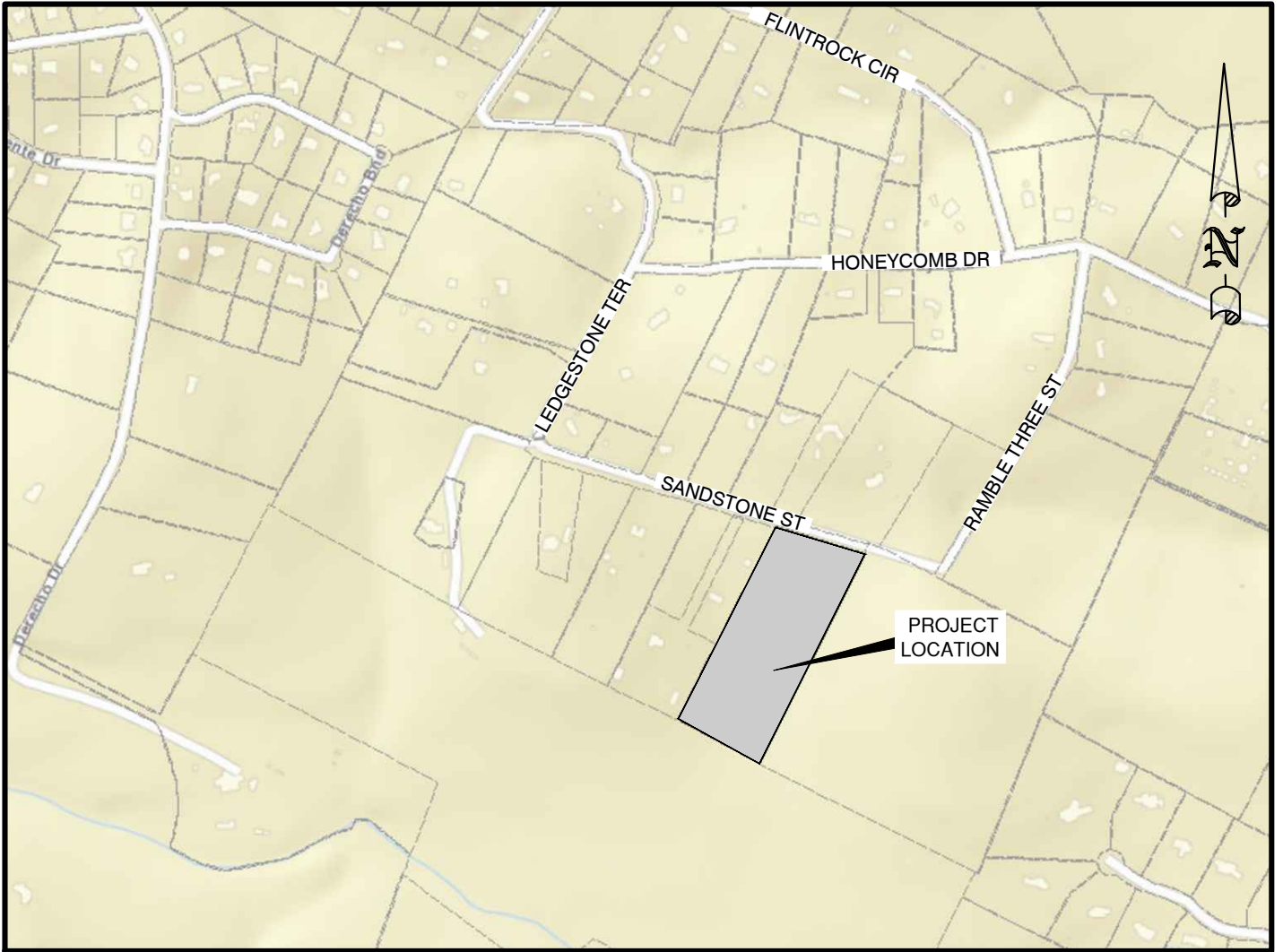
responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

60.  A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

### ***Administrative Information***

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

**Attachment A – Road Map**



MAP ID: 041557

LOCATION MAP  
NTS

ATTACHMENT A  
LOCATION MAP  
SANDSTONE RESIDENTIAL SUBDIVISION  
9223 SANDSTONE ST, AUSTIN, TX 78737



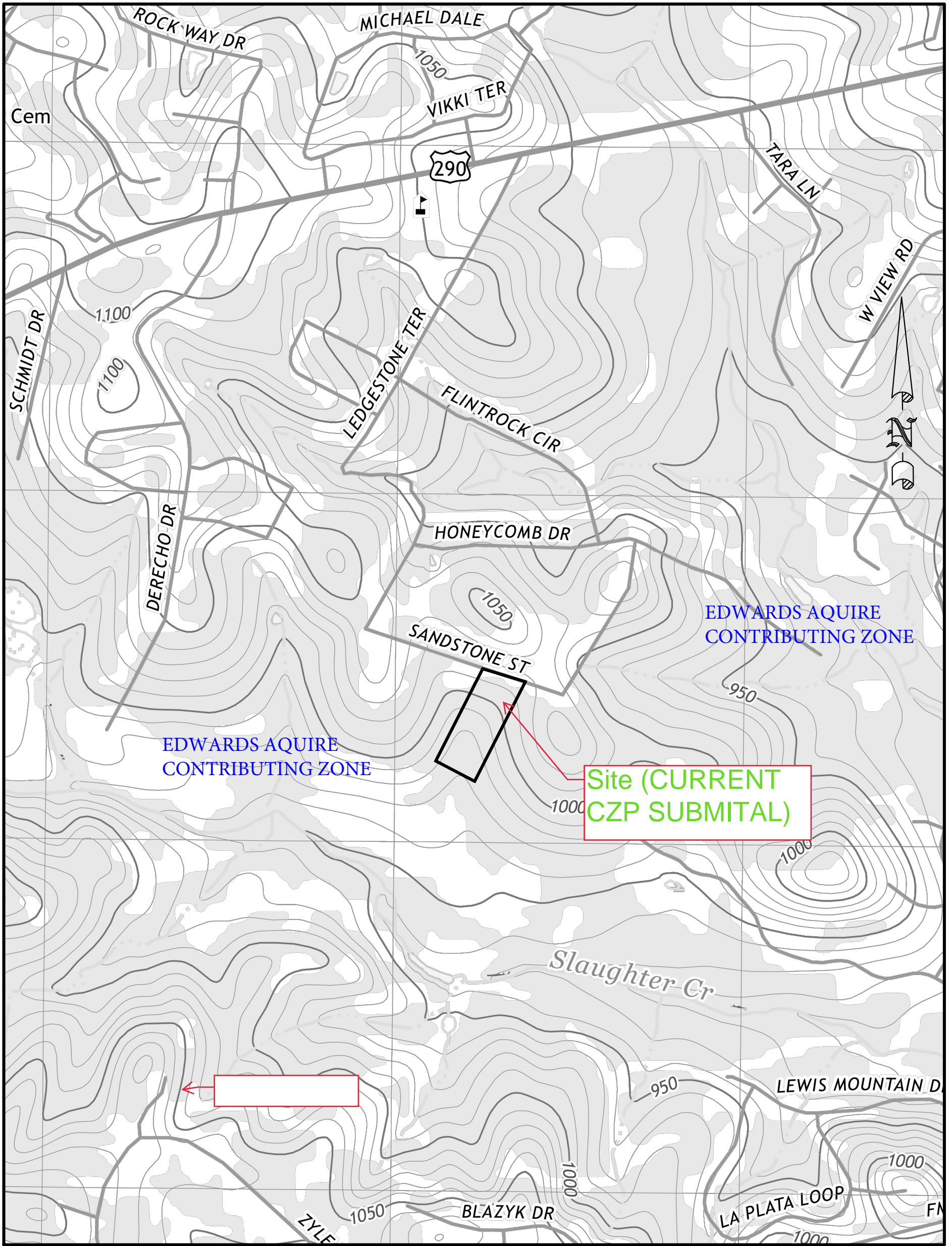
**SAXON  
LOOMIS**

CONSULTING GROUP

2216 College Ave.  
Austin, Texas 78704  
Phone: (512) 550-0500

TBPE  
Firm Registration  
No. F-19735

**Attachment B– USGS Quadrangle Map**



USGS QUADRANGLE MAP  
 9223 SANDSTONE ST  
 AUSTIN , TEXAS 78737



2216 College Ave.  
 Austin, Texas 78704  
 Phone: (512) 550-0500  
 TBPE  
 Firm Registration  
 No. F-19735



## **Attachment C- Project Narrative**

The proposed project is located at 9223 Sandstone Street, Austin, Texas 78737 and in the 2-mile ETJ of the City of Austin. Presently, this 9.999-acre site is undeveloped. The proposed subdivision is a nine-lot subdivision with the goal of constructing single-family residences on each lot. The proposed impervious cover for each lot will be up to 7,000 sf. The maximum total impervious cover percentage for the property as a whole will be less than 20 %.

The original tract of land is undeveloped land. The site area is 9.999 acres, and the total disturbed area is 4.57 acres. The predeveloped impervious cover was 0 sq.ft. the total proposed impervious cover will be 1.867 acres, which is 18.67%. The impervious cover summary has been provided in contributing zone plan application, Table 1- Impervious cover.

Three offsite and onsite drainage areas drain to and within this project site. The total offsite drainage area is 40.13 acres. These flows drain onto the subject property in a generally diffuse manner (sheet flow). This site is not located within the floodplain boundaries of any FEMA-mapped creek or local creek with a significant drainage area.

## **Attachment D – Factors Affecting Water Quality**

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

- Soil erosion due to the clearing of the site for roads, buildings, and drainage structures.
- Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle drippings.
- Hydrocarbons from asphalt paving operations.
- Miscellaneous trash and litter from construction.
- Concrete truck washout.

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

Stormwater runoff will increase as a result of this overall development.

For a 10-year storm event, the proposed subdivision has an existing total flow of 47.10 cfs, and after full development will generate approximately 62.4 cfs of runoff.

For a 100-year storm event, the proposed subdivision has an existing total flow of 88.2 cfs, and after full development will generate approximately 111.3 cfs of runoff.

Design flow rates utilized in this investigation represent existing watershed conditions for subbasins draining to and within the subject property. Hydrologic modeling in support of this investigation was performed using the U.S. Corps of Engineers hydrologic model HEC-HMS (Version 4.9).

Model parameters were developed as follows:

- Watershed CN values were derived based on the area-weighted presence of the multiple soil types (and their corresponding hydrologic soils group designations) located within each of the individual modeled sub-basins.
- The 100-year design rainfall volume was input to the model using a Frequency Storm distribution and the Atlas 14 100-yr rainfall volume (12.8 inches for the 24-hour 100-yr storm).
- Times of concentration were developed using methodologies provided in USDA TR-55 reflecting sheet flow, shallow concentrated flow, and channelized flow lengths and velocities.

**Attachment F- Suitability Letter from Authorized Agent (if OSSF is proposed)**

**Attachment G - Alternative Secondary Containment Methods.**

**N/A**

**Attachment H - AST Containment Structure Drawings**

**N/A**

**Attachment I - 20% or Less Impervious Cover Waiver**

**N/A**

## **Attachment J – BMPs for Upgradient Stormwater**

This CZP submittal for this project is located within the Contributing Zone of the Edwards Aquifer. Upgradient stormwater enters the site from the north, west and east via two existing tributaries running southeasterly and northwest through the site. The stormwater is then conveyed to an existing stream that is a tributary of Slaughter Creek.

All upgradient stormwater is conveyed around the proposed development and into the tributary of Slaughter Creek through sheet flow. See Drainage Plans in the Construction Plans for more details and drainage calculations.



## **Attachment K – BMPs for On-Site Stormwater**

The area included in the CZP application is for the Sandstone Residential Subdivision. This site is used for low density, single-family residential development and has an impervious cover of 20% or less. Therefore, BMPs for on-site stormwater are not required, as specified in TAC Chapter 213.5. However, a Retention/Irrigation system is being used to treat the proposed impervious cover for the site.

Attachment L – BMPs for Surface Streams

N/A

## **Attachment M – Construction Plans**

See Attached Construction Plans

## **Attachment N – Inspection, Maintenance, Repair and Retrofit Plan**

### **Inspections**

Designated and qualified person(s) shall inspect BMPs every seven days, and within 24 hours after a storm event greater than 0.5 inches of rainfall. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of the Storm Water TPDES data for a period of three years after the date of the inspection. A copy of the Inspection Report Form is provided in the Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe: (1) significant disturbed areas for evidence of erosion, (2) storage areas for evidence of leakage from the exposed stored materials, (3) structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep), (4) vehicle exit point for evidence of off-site sediment tracking, (5) vehicle storage areas for signs of leaking equipment or spills, and (6) concrete truck rinse-out pit for signs of potential failure. Deficiencies noted during the inspection will be corrected and documented within seven (7) calendar days following the inspection or before the next anticipated storm event if practicable.

**Attachment O - Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs**

**N/A**

## **Attachment P – Measures for Minimizing Surface Stream Contamination**

All flows on site and from off-site are conveyed to tributaries of Slaughter Creek itself, through natural grass swales. Along with the 20% or less impervious cover for the site at full development, contamination of surface streams should be minimized.

**TCEQ-0602 Attachments**

**Temporary Stormwater Section**

# 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: Thomas Loomis, P.E.

Date: 9/17/2023

Signature of Customer/Agent:



Regulated Entity Name: Sandstone Residential Subdivision

## 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: Slaughter 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.

**TCEQ-0602 Attachments**

**Sandstone Residential Subdivision**

Temporary Stormwater Section

## **Attachment A - Spill Response Actions**

## **Attachment A - Spill Response Actions**

The objective of this section is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses. Measures include reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

The following steps will help reduce the stormwater impacts of leaks and spills:

### ***Education***

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

### ***General Measures***

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

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

### ***Cleanup***

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

### ***Minor Spills***

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

### ***Semi-Significant Spills***

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately using the following steps:

1. Contain spread of the spill.
2. Notify the project foreman immediately.
3. If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.



4. If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
5. If the spill occurs during rain, cover the spill with tarps or other material to prevent contaminating runoff.

### ***Significant/Hazardous Spills***

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

### ***Vehicle and Equipment Maintenance***

- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately.
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- (4) Always use secondary containment, such as drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of them properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over the waste oil-recycling drum to

drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.

- (9) The store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all of the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

### ***Vehicle and Equipment Fueling***

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

## **Attachment B - Potential Sources of Contamination**

## Attachment B - Potential Sources of Contamination

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Potential Source: Asphalt products were used on this project.

Preventative Measure: After placement of asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup, should unexpected rain occur. For the duration of the asphalt curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off, should an unexpected rain occur. The contractor will be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain event.

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

Preventative Measure: Vehicle maintenance, when possible, will be performed within the construction staging areas.

---

Potential Source: Miscellaneous trash and litter from construction

Preventative Measure: Trash containers will be placed throughout the site to encourage proper trash disposal.

---

Potential Source: Construction debris

Preventative Measure: Construction debris will be monitored daily by contractors. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case-by-case basis.

## **Attachment C - Sequence of Major Activities**

## **Attachment C - Sequence of Major Activities**

The sequence of major activities will be based on the following:

- Installation of Erosion/Sedimentation Controls (approx. 3.42 AC)
- Installation of underground utilities (approx. 0.37 AC)
- Revegetation of disturbed areas (approx. 3.42 AC)
- Removal and proper disposal of erosion/sedimentation controls once permanent vegetation is established (approx. 3.42 AC)

Please refer to the Erosion and Sedimentation Control Plan for measures to be implemented throughout the construction phase.

**Attachment D - Temporary Best Management Practices and Measures**

## **Attachment D - Temporary Best Management Practices and Measures**

Upgradient water will be intercepted through channels along the west and east side of the property and directed to a tributary of Slaughter Creek. Silt fences and rock berms will be placed along the channel.

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

BMP measures utilized in this plan are intended to allow storm water to continue downstream after passing through for treatment. This will allow stormwater runoff to continue downstream to any existing sensitive features.

### Site Preparation:

The clearing and grading of the land will disturb the largest area of soil, so erosion control measures will be installed as the first step in construction. The methodology for pollution prevention of all on-site stormwater will include a) the erection of silt fences along the downgradient boundary of the construction activities, b) installation of rock berms with silt fence covering downgradient from areas of concentrated stormwater flow, c) installation of stabilized construction entrances to reduce the dispersion of sediment from the site, and d) installation of a construction staging area.

### Construction:

All installed erosion control measures will be inspected, and if necessary, repaired before any additional construction begins, as well as periodically throughout the construction process. The contractor will be responsible for all maintenance of erosion control measures, as well as the installation of all remaining on-site control measures, including the concrete truck washout, as necessary.



**Attachment E - Request to Temporarily Seal a Feature**

N/A

## **Attachment F - Structural Practices**

## **Attachment F - Structural Practices**

The following structural measures will be installed prior to the initiation of site construction:

- Silt fences along the downstream boundary of all construction activity, and rock berms with silt fence covering for secondary protection.
- Installation of stabilized construction entrances and construction staging areas
- Installation of concrete truck washout pits, as required.

**Attachment G - Drainage Area Map**

SEE CONSTRUCTION PLANS

## **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**

N/A

## **Attachment I - Inspection and Maintenance for BMPs**

## **Attachment I - Inspection and Maintenance for BMPs**

### **Inspections**

Designated and qualified person(s) shall inspect BMPs every seven days, and within 24 hours after a storm event greater than 0.5 inches of rainfall. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of the Storm Water TPDES data for a period of three years after the date of the inspection. A copy of the Inspection Report Form is provided in the Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe: (1) significant disturbed areas for evidence of erosion. (2) storage areas for evidence of leakage from the exposed stored materials, (3) structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep), (4) vehicle exit point for evidence of off-site sediment tracking, (5) vehicle storage areas for signs of leaking equipment or spills, and (6) concrete truck rinse-out pit for signs of potential failure. Deficiencies noted during the inspection will be corrected and documented within seven (7) calendar days following the inspection or before the next anticipated storm event if practicable.

Project Name: \_\_\_\_\_

Customer Name: \_\_\_\_\_

Permit Number: TXR15 \_\_\_\_\_

Date of Inspection: \_\_\_\_\_

**SWPPP INSPECTION CHECKLIST  
CONSTRUCTION ACTIVITIES**

Inspection Frequency: **(Every 7 Days, 14 Day or Post Rain)** \_\_\_\_\_ Post Significant Rain Fall:  
N/A / Rainfall Amount: \_\_\_\_\_ Is Inspector qualified to perform inspections? **Yes** Are inspector  
qualifications present in SWPPP? **Yes** Was the entire site inspected? \_\_\_\_\_ (If no, please list conditions  
limiting the scope of the inspection)

Location of outfall(s) \_\_\_\_\_

General Note:

\_\_\_\_\_  
\_\_\_\_\_

**Please note if the following areas or controls were observed in compliance during the course of the  
inspection, if not, see list in BMP's working section:**

<b>Do the following items comply with SWPPP regulation?</b>	<b>Yes / No Note Corrective Action Taken</b>
Copy of the NOI with the SWPPP?	
Construction Site Notice posted at entrance(s) to Site? Copy of NOI poste at the site entrance(s)?	
Do storage areas show signs of erosion?	
Do disturbed areas show signs of erosion?	
Are there signs of erosion at outfalls?	
BMPs working properly? (if no, make detailed list of issue locations in area of concern/corrective action section below)	
Do BMPs need maintenance? (if yes, make detailed list of issue locations in area of concern/corrective action section below)	
Are new BMPs required on-site?	
Did the site map / BMP map get updated?	



Project Name: \_\_\_\_\_

Customer Name: \_\_\_\_\_

Permit Number: TXR15 \_\_\_\_\_

Date of Inspection: \_\_\_\_\_

Control	Complaint (Yes – No – N/A)
Construction Exit	
Concrete Washout	
Trash Receptacles	
Portable Toilets	
Material Storage Area	
Waste Storage Area	
Silt Fence	
Rock Berm	
Sediment Traps	
Drainage Channels	

Control	Complaint (Yes – No – N/A)
Outfall/Outlet Protections	
Inlet Protection	
Vegetated Buffer Strips	
Detention Pond	
Filtration Pond	
Retention Pond	
Tree Protection	
Geo-Textiles	
Site Stabilization	
No off-site discharge	

Inspector Qualifications (Additionally included in the SWPPP)  
\_\_\_\_\_ (Qualified Inspector)

- 
- 
- 
- 
- Qualified Inspector for Storm Water Inspections in accordance with TCEQ and EPA Regulations

“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 the 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 this 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 have read and understand the information laid out in the SWPPP for this site, TPDES regulations and the rules and regulations governing TCEQ storm water inspections.

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

Project Name: \_\_\_\_\_  
 Permit Number: TXR15 \_\_\_\_\_

Customer Name: \_\_\_\_\_  
 Date of Inspection: \_\_\_\_\_

Areas of Concern/Corrective Action

	Issue	Location	Corrective Action	Action	Date
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

Silt Fence (SF) Rock Berm (RB) Construction Exit (SCE) Concrete Washout CWO) Inlet Protection (IP)  
 Vegetated Buffer (VB)

Discharged Pollutant Comments (Location, possible causes, etc.):

Issue	Location	Corrective Action	Action	Date

## **Attachment J – Schedule of Interim and Permanent Soil Stabilization**

## **Attachment J – Schedule of Interim and Permanent Soil Stabilization**

### **STABILIZATION PRACTICES**

Installation and utilization of stabilization measures will begin as soon as practicable in any portion of the site where construction activities have either temporarily or permanently ceased. Stabilization measures must be initiated immediately, where construction activities have temporarily ceased and will not resume for a period exceeding 14 calendar days. The term “immediately” is used to define the deadline for initiating stabilization measures. In the context of this requirement, “immediately” means as soon as practicable, but no later than the end of the next workday, following the day when the earth- disturbing activities have temporarily or permanently ceased. Temporary / Interim stabilization methods should be utilized in situations where development and/or construction practices have ceased temporarily, and permanent stabilization methods should be utilized after development and/or construction activities have been completed.

Disturbed areas to receive paving, landscape treatment and turfing shall be covered by erosion control blankets. All other rough graded slopes, disturbed ground surfaces and discharge channels shall receive seeding with native seed mix and then covered by erosion control blankets or straw mulching or other approved BMP. Stockpiled materials shall be seeded and covered by soil erosion blankets. A storm water perimeter control device shall be established at a minimum distance of 10 feet from the toe of the stockpile. The materials excavated from utility trenching shall be protected from up gradient storm run- on. The excavated materials shall be covered by erosion control blankets.

### **TEMPORARY STABILIZATION**

Temporary (Interim) Stabilization

**Seed Specification:** INTERIM SEEDING: N/A

**Temporary vegetation** - establishment of natural grassy areas that are intended to be re- disturbed during later phases of construction or development. Temporary vegetation is usually accomplished by spreading rapidly growing grass via the process of hydro-seeding or hydro-mulching.

**Mulching** - the process of spreading a ground layer of chipped wood or brush to protect disturbed and unstable topsoil against erosion by storm water runoff by slowing run-off velocities, promoting sediment deposition, filtering sediment, and promoting increased ground infiltration rates. Mulching also provides the added benefits of reducing soil water loss, which is beneficial when attempting to establish

newly planted vegetation. Applied in thicker layers and the size of mulch chips, mulching can also be used to prevent erosion on areas of steeper slopes. **Geo-textiles** - Geo-textiles (i.e., fiber matting, coir, filter fabrics) are porous materials or ground coverings which allow storm water run-off to pass through but block the passage of most sediment and larger suspended particles. Geo-textiles matting can be used on newly seeded slopes to lessen seed and soil loss, or next to riprap to prevent run-off from washing out the soil beneath.

**Vegetative buffer strips** - areas where vegetation has been left undisturbed or where vegetation has been re-established, typically in long, narrow strips. Buffer strip areas retard the speed of storm water runoff, promote sediment filtration, increase ground infiltration, and improve site aesthetics. Vegetative buffer strips are extremely effective on steep, unstable slopes, or within floodplains, and along the bank slopes of waterways.

**Tree Protection** - is a required practice by most regulatory agencies. Only trees of certain sizes are required to be protected. Refer to your specific governing jurisdiction for specific regulations. However, even if tree protection is not required, regulated practice is still an important and cost-effective erosion control method. (reference: **Preservation of mature vegetation** for specific details)

**Preservation of mature vegetation** - provides a natural buffer zone and promotes improved storm water run-off quality by helping minimize topsoil erosion as well as providing cost effective aesthetic benefits. Established, mature vegetation can withstand and tolerate heavier storm events than newly planted vegetation, due to a deeper, more established root system. It is necessary that preservation of existing, mature vegetation be planned for in advance of site construction. Areas to be preserved should be clearly marked and possibly even barricaded to prevent damage during construction.

<b>Interim Stabilization Practices:</b>	<b>When Implemented:</b>	<b>Located:</b>	<b>Purpose:</b>	<b>In Use:</b>
Temporary Vegetation	Throughout site development	N/A	Temporary vegetation growth is recommended to reduce soil erosion in areas that are not actively under development.	<b>NO</b>
Mulching	Throughout site development	N/A	Mulching is utilized to reduce top-soil erosion and to prevent soil water loss. This method can be used in planted/landscaped areas to prevent soil movement and water loss until vegetation is well established.	<b>NO</b>
Geo-textiles	Throughout site development	N/A	Geo-textiles (i.e. matting, Curlex) can be used to temporarily stabilize soil in areas where it is not feasible to utilize mulching or temporary vegetation	<b>NO</b>

Vegetative Buffer Strips	Throughout site development	Located at perimeters of the site and along natural creek beds	Vegetative buffer strips will be utilized throughout the site for both drainage and aesthetic purposes, as well as for the secondary benefits of improved water quality due to sediment deposition and improved infiltration.	<b>NO</b>
Tree Protection	Throughout site development	Located around all desirable trees to be retained, per plan	Desirable trees throughout the site are to be protected during and after construction to promote both water quality and aesthetics.	<b>YES</b>
Preservation of Existing Mature Vegetation	Throughout site development	Desirable existing vegetation to be preserved throughout the site, per plan	Desirable existent mature vegetation (i.e. under-story) is to be preserved throughout the site to promote water quality via sediment deposition and improved infiltration.	<b>YES</b>

**PERMANENT STABILIZATION**

Permanent Stabilization

Permanent drainage structures, including concrete curbs and gutters, concrete pavement, asphalt pavement, drainage swales, drainage ditch, turfing, vegetative strips, concrete culvert, and pipe culvert will provide permanent erosion control at this project site. After initial stabilization, the Contractor shall inspect the site once a month until project acceptance as been granted by the Customer Representative/Contract Manager. Unsatisfactory stabilized areas shall be future stabilized at the request of the Customer Representative/Contract Manager. Final or permanent stabilization shall be in accordance with the specification sections: [2300 Earthwork], [02916 Mulching for erosion control],[02921 Seeding],[02922 Sodding],[02923 Sprigging],[02919 Topsoil], [02924 Seeding] and [02925or 02926 Establishment of Turf].

**Seed Specification:** PERMANENT SEEDING: Permanent stabilization to be according to site specific re- stabilization / landscape plan and / or the San Antonio Ordinances.

**Permanent vegetation** - the process of establishing a permanent vegetative ground cover that helps reduce topsoil erosion by holding and stabilizing soil particles, which in turn slows storm water run-off velocity, promotes ground infiltration, promoting sediment deposition, and by providing secondary aesthetic benefits. Permanent vegetation is established by planting and seeding in areas where the soil needs stabilization due to existing soil structure, texture, or steeper grade slopes. Permanent vegetation can include trees, grasses, and shrubs.

**Mulching** - the process of spreading a ground layer of chipped wood or brush to protect disturbed and unstable topsoil against erosion by storm water runoff by slowing run-off velocities, promoting sediment deposition, filtering sediment, and promoting increased ground infiltration rates. Mulching also provides the added benefits of reducing soil water loss, which is beneficial when attempting to establish newly planted vegetation. Applied in thicker layers and the size of mulch chips, mulching can also be used to prevent erosion on areas of steeper slopes.

**Geo-textiles** - Geo-textiles (i.e. fiber matting, coir, filter fabrics) are porous materials or ground coverings which allow storm water run-off to pass through, but block the passage of most sediment and larger suspended particles. Geo-textiles matting can be used on newly seeded slopes to lessen seed and soil loss, or next to riprap to prevent run-off from washing out the soil beneath.

**Sod stabilization** - the practice of installing grass sod strips or squares over a disturbed or unprotected topsoil surface to provide instant protection of soil from the erosive forces of storm water run-off. Sod stabilization is an effective and feasible practice in areas where construction activities are complete increasing the chances that the grass cover will have the opportunity to become established. This measure requires maintenance such as the installation of sub-sod topsoil and frequent watering to promote sod growth.

**Hydro-mulch/seeding stabilization** - the practice of applying seed mixtures hydraulically with paper or wood mulch material over a disturbed or unprotected topsoil surface to provide vegetative protection of soil from the erosive forces of storm water run-off. Hydro- mulch/seeding stabilization is an effective and feasible practice in areas where construction activities are complete increasing the chances that the grass cover will have the opportunity to become established. This measure requires maintenance such as the placement of topsoil and frequent watering to promote sod growth.



**Vegetative buffer strips** - areas where vegetation has been left undisturbed or where vegetation has been re-established, typically in long, narrow strips. Buffer strip areas retard the speed of storm water runoff, promote sediment filtration, increase ground infiltration, and improve site aesthetics. Vegetative buffer

**Paved or impervious surfaces** - provides permanent stabilization by protecting soil from exposure of impact erosion by rainfall with a layer of concrete, asphalt, or other impervious cover.

**Preservation of mature vegetation** - provides a natural buffer zone and promotes improved storm water run-off quality by helping minimize topsoil erosion as well as providing cost effective aesthetic benefits. Established, mature vegetation can withstand and tolerate heavier storm events than newly planted vegetation, due to a deeper, more established root system. It is necessary that preservation of existing, mature vegetation be planned for in advance of site construction. Areas to be preserved should be clearly marked and possibly even barricaded to prevent damage during construction.

<b>Permanent Stabilization Practices:</b>	<b>When Implemented:</b>	<b>Located:</b>	<b>Purpose:</b>	<b>In Use:</b>
Permanent Vegetation (i.e. grasses, shrubbery, trees)	Installed during the last phase of site development	To be located throughout site, per plan	Installation of permanent vegetation is a method of reducing and preventing soil erosion, improved infiltration and increases site aesthetics.	<b>YES</b>
Mulching	Installed during the last phase of site development	N/A	Mulching is utilized to reduce topsoil erosion and to prevent soil water loss. This method can be used in planted/landscaped areas to prevent soil movement and water loss until vegetation is well established.	<b>NO</b>
Geo-textiles	Installed during the last phase of site development	To be located in areas of significant soil disturbance	Geo-textiles are utilized to reduce soil erosion and promote vegetation growth in high slope and/or high water flow areas.	<b>NO</b>
Sod Stabilization	Installed during the last phase of site development	To be located throughout the site, per landscaping plan	Sod stabilization is used to establish a complete and instant vegetative ground cover in an effort to prevent topsoil erosion.	<b>YES</b>
Hydro-mulch/Seeding	Installed during the last phase of site development	To be used throughout the site, per landscaping plan	Hydro-mulch/seeding stabilization is used to establish a complete vegetative ground cover in an effort to prevent topsoil erosion.	<b>YES</b>

Stabilization				
Vegetative Buffer Strips	Installed during the last phase of site development	To be located at perimeter of site	Vegetative buffer strips will be utilized throughout the site for both drainage and aesthetic purposes, as well as for the secondary benefits of improved water quality due to sediment deposition and improved infiltration.	<b>NO</b>
Paved and/or Impervious Surfaces	Installed during the last phase of site development	Throughout the site	Areas where structural concrete are located within the site; minimize and prevent erosion at those locations	<b>YES</b>
Preservation of Existing Mature Vegetation	Installed during the last phase of site development	Located at perimeters of site	Desirable existent mature vegetation (i.e. under-story) is to be preserved throughout the site to promote water quality via sediment deposition and improved infiltration.	<b>YES</b>

## **Copy of Notice of Intent (NOI)**



# Notice of Intent (NOI) for Stormwater Discharges Associated with Industrial Activity under TPDES General Permit (TXR050000)

## IMPORTANT:

- Use the **INSTRUCTIONS** to fill out each question in this form.
- Use the **CHECKLIST** to make certain all you filled out all required information. Incomplete applications **WILL** delay approval or result in automatic denial.
- Once processed your permit can be viewed at [\Hrd.##k k k\) "hWe"hm Ug"l cj #keSXdu#](#)

**ePERMITS:** Sign up now for online NOI: [https://www6.tceq.hm Ug"l cj /steers/](https://www6.tceq.hm Ug)

Pay a \$100 reduced application fee by using ePermits.

## APPLICATION FEE:

- You must pay the **\$200** Application Fee to TCEQ for the paper application to be complete.
- Payment and NOI must be mailed to separate addresses.
- Did you know you can pay on line?
  - Go to [\Hrdg.##k k k \\* "hWe"hm Ug"l cj #XdUn#](#)
  - Select Fee Type: GENERAL PERMIT INDUSTRIAL STORMWATER DISCHARGE NOI APPLICATION

• **Provide your payment information below, for verification of payment:**

Mailed	Check/Money Order No.:	_____
	Name Printed on Check:	_____
EPAY	Voucher No.:	_____
	Is the Payment Voucher copy attached?	Yes

**RENEWAL: Is this NOI a Renewal of an existing General Permit Authorization? (Note: A permit cannot be renewed after November 14, 2011.)**

Yes    The Permit number is: TXR05\_\_\_\_\_

**(If a permit number is not provided, a new number will be assigned.)**

No

## 1) OPERATOR (applicant)

a) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? You may search for your CN at:  
<http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>  
 CN \_\_\_\_\_

b) What is the Legal Name of the entity (applicant) applying for this permit?

\_\_\_\_\_

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

c) What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in TAC 305.44(a).

Prefix (Mr. Ms Miss): \_\_\_\_\_  
First/Last Name: \_\_\_\_\_ Suffix: \_\_\_\_\_  
Title: \_\_\_\_\_ Credential: \_\_\_\_\_

d) What is the contact information and mailing address as recognized by the US Postal Service (USPS)? You may verify the address at:

<http://zip4.usps.com/zip4/welcome.jsp>  
Phone #: \_\_\_\_\_ ext: \_\_\_\_\_ Fax #: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Internal Routing (Mail Code, Etc.): \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_  
E-mail Address: \_\_\_\_\_  
If outside USA: Territory: \_\_\_\_\_ Country Code: \_\_\_\_\_ Postal Code: \_\_\_\_\_

e) Indicate the type of Customer (The instructions will help determine your customer type):

- |                  |                     |                         |
|------------------|---------------------|-------------------------|
| Individual       | Limited Partnership | Sole Proprietorship-DBA |
| Joint Venture    | General Partnership | Corporation             |
| Trust            | Estate              | Federal Government      |
| State Government | County Government   | City Government         |
| Other Government |                     |                         |

f) Independent Operator? Yes      No  
(If governmental entity, subsidiary, or part of a larger corporation, check "No".)

g) Number of Employees:  
0-20;      21-100;      101-250;      251-500; or      501 or higher

h) Customer Business Tax and Filing Numbers:  
(REQUIRED for Corporations and Limited Partnerships. Not Required for Individuals, Government, or Sole Proprietors)

State Franchise Tax ID Number: \_\_\_\_\_  
Federal Tax ID: \_\_\_\_\_  
Texas Secretary of State Charter (filing) Number: \_\_\_\_\_  
DUNS Number (if known): \_\_\_\_\_

**2) ANNUAL BILLING CONTACT**

The Operator is responsible for paying the annual fee. The annual fee will be assessed to permits active on September 1 of each year. TCEQ will send a bill to the address provided in this section. The Operator is responsible for terminating the permit when it is no longer needed.

Is the billing address the same as the applicant address identified above?

Yes, go to Section 3).      No, complete section below

Prefix (Mr. Ms Miss): \_\_\_\_\_  
First/Last Name: \_\_\_\_\_ Suffix: \_\_\_\_\_  
Title: \_\_\_\_\_ Credential: \_\_\_\_\_  
Organization Name: \_\_\_\_\_

Phone No.: \_\_\_\_\_ Extension: \_\_\_\_\_  
Fax No.: \_\_\_\_\_ E-mail:SSSSSS \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Internal Routing (Mail Code, Etc.): \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_  
Mailing Information if outside USA  
Territory: \_\_\_\_\_ Country Code: \_\_\_\_\_ Postal Code: \_\_\_\_\_

**3) APPLICATION CONTACT**

If TCEQ needs additional information regarding this application, who should be contacted?

Prefix (Mr. Ms Miss): \_\_\_\_\_  
First/Last Name: \_\_\_\_\_ Suffix: \_\_\_\_\_  
Title: \_\_\_\_\_ Credential: \_\_\_\_\_  
Organization Name: \_\_\_\_\_  
Phone No.: \_\_\_\_\_ Extension: \_\_\_\_\_  
Fax No.: \_\_\_\_\_ E-mail:SSSSSS \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Internal Routing (Mail Code, Etc.): \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_  
Mailing Information if outside USA  
Territory: \_\_\_\_\_ Country Code: \_\_\_\_\_ Postal Code: \_\_\_\_\_

**4) REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE**

If the site of your business is part of a larger business site or if other businesses were located at this site before yours, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search TCEQ's Central Registry to see if the larger site may already be registered as a regulated site at:  
<http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=regent.RNSearch>.

If the site is found, provide the assigned Regulated Entity Reference Number and provide the information for the site to be authorized through this application below. The site information for this authorization may vary from the larger site information.

- a) TCEQ issued RE Reference Number (RN): RN \_\_\_\_\_
- b) Name of project or site (the name known by the community where located):  
\_\_\_\_\_
- c) In your own words, briefly describe the primary business of the Regulated Entity: (Do not repeat the SIC and NAICS code):  
\_\_\_\_\_
- d) County (or counties if > 1) \_\_\_\_\_
- e) Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

- f) Does the site have a physical address?  
 Yes, complete Section A for a physical address.  
 No, complete Section B for site location information.

**Section A:** Enter the physical address for the site.

Verify the address with USPS. If the address is not recognized as a delivery address, provide the address as identified for overnight mail delivery, 911 emergency or other online map tools to confirm an address.

Physical Address of Project or Site:

Street Number: \_\_\_\_\_ Street Name: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

**Section B:** Enter the site location information.

If no physical address (Street Number & Street Name), provide a written location access description to the site. (Ex.: located 2 miles west from intersection of Hwy 290 & IH35 accessible on Hwy 290 South)

\_\_\_\_\_  
 City where the site is located or, if not in a city, what is the nearest city:

\_\_\_\_\_  
 State: \_\_\_\_\_ ZIP Code where the site is located: \_\_\_\_\_

**5) GENERAL CHARACTERISTICS**

- a) Is the project/site located on Indian Country Lands?  
 Yes - If the answer is Yes, you must obtain authorization through EPA, Region VI.  
 No
- b) What is the Primary SIC Code that is within the range listed and corresponds with the selected Activity or Sector in the general permit?  
 Primary SIC Code \_\_\_\_\_
- c) If applicable, what is the Secondary SIC Code(s): \_\_\_\_\_  
 If the secondary SIC Code(s) is one of 1411, 1422, 1423, 1429, 1442, 1446, 1474, 1475, 1479, 1481, or 1499, the following certification is required to qualify for coverage under this general permit:  
 I certify that this application does not include any discharges from quarries located in the John Graves Scenic Riverway, in the Brazos River Basin, in Palo Pinto or Parker County, Texas, as described in Texas Water Code, Subchapter 26.553. Yes
- d) What is the Sector(s) that applies to the industrial activity at your facility? The Sector(s) must correspond to the primary SIC Code(s) listed above.
- |          |          |          |          |           |
|----------|----------|----------|----------|-----------|
| Sector A | Sector G | Sector M | Sector S | Sector Y  |
| Sector B | Sector H | Sector N | Sector T | Sector Z  |
| Sector C | Sector I | Sector O | Sector U | Sector AA |
| Sector D | Sector J | Sector P | Sector V | Sector AB |
| Sector E | Sector K | Sector Q | Sector W | Sector AC |
| Sector F | Sector L | Sector R | Sector X |           |

Sector AD: For Sector AD a copy of the letter from TCEQ requiring coverage under this general permit must be included with this NOI or coverage may be denied.

e) If applicable, select the Activity Code(s) that corresponds with the Sector, or if seeking coverage based on federal effluent guidelines, select the qualifying activity type(s).

- HZ Wet decking water
- SE Phosphate Fertilizers
- LF Mining of Sand, Gravel, or Crushed Stone
- TW Cement Manufacturing Materials  
Asphalt Emulsion

f) What is the name of the first water body(s) to receive the stormwater runoff or potential runoff from the site? \_\_\_\_\_

g) What is the segment number(s) of the classified water body(s) that the discharge will eventually reach? \_\_\_\_\_

h) Is the discharge or potential discharge to an impaired water body(s) on the EPA-approved CWA 303(d) list?  Yes  No

If the answer is Yes, what is the name of the impaired water body(s)? \_\_\_\_\_

i) Do the water body(s) to which the discharge or potential discharge have an EPA-approved or established water quality standard?  Yes  No

j) Does the discharge or potential discharge flow to an MS4?  Yes  No  
If the answer is Yes, provide the name of the MS4 operator: \_\_\_\_\_

Note: The general permit requires you to send a copy of the NOI to the MS4 operator.

k) Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer as defined in 30 TAC Chapter 213?  Yes  No

If the answer is Yes, the following certification is required:

I certify that a copy of the agency approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) will either be included or referenced in the Stormwater Pollution Prevention Plan before discharge can begin.  Yes



**6) CERTIFICATION**

Check Yes to the certifications below. Failure to indicate Yes to **ALL** items may result in denial of coverage under the general permit.

- a) I certify that I have obtained a copy and understand the terms and conditions of the general permit TXR050000.  Yes
- b) I certify that the activities at this site qualify for coverage under the general permit TXR050000.  Yes
- c) I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed.  Yes
- d) I understand that permits active on September 1st of each year will be assessed an Annual Water Quality Fee.  Yes
- e) I certify that a Stormwater Pollution Prevention Plan has been prepared and implemented as required in the general permit.  Yes
- f) I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.  Yes

**Operator Certification:**

I, J.J. Clark President  
 Typed or printed name Title

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 that I am authorized under 30 Texas Administrative Code 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature:  Date: 9/21/2023  
 (Use blue ink)

## NOTICE OF INTENT CHECKLIST

### TXR05000

- Did you complete everything? Use this checklist to be sure!
- Are you ready to mail your form to TCEQ? Go to the General Information Section of the Instructions for mailing addresses.

This checklist is for use by the operator to ensure a complete application. Missing information may result in denial of coverage under the general permit. (See NOI process description in the Instructions)

#### Application Fee:

If paying by Check:

Check was mailed **separately** to the TCEQs Cashier's Office. (See Instructions for Cashier's address and Application address.)

Check number and name on check is provided in this application.

If using ePay:

The voucher number is provided in this application or a copy of the voucher is attached.

#### OPERATOR INFORMATION - Confirm each item is complete:

Customer Number (CN) issued by TCEQ Central Registry

Legal name as filed to do business in Texas (Call TX SOS 512/463-5555)

Name and title of responsible authority signing the application

Mailing address is complete & verifiable with USPS. [www.usps.com](http://www.usps.com)

Phone numbers/e-mail address

Type of operator (entity type)

Independent operator

Number of employees

For corporations or limited partnerships – Tax ID and SOS filing numbers

Billing contact and address is complete & verifiable with USPS. [www.usps.com](http://www.usps.com)

#### REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE - Confirm each item is complete:

Regulated Entity Reference Number (RN) (if site is already regulated by TCEQ)

Site/project name/regulated entity

Latitude and longitude <http://www.tceq.texas.gov/gis/sqmaview.html>

County

Site/project physical address. Please do not use a rural route or post office box

Business description

#### GENERAL CHARACTERISTICS - Confirm each item is complete:

Indian Country Lands –the facility is not on Indian Country Lands

Standard Industrial Classification (SIC) Code [www.osha.gov/oshstats/sicser.html](http://www.osha.gov/oshstats/sicser.html)

Sector is selected

Activity code if applicable

Receiving water body

Segment number

Impaired water body

TMDL – EPA approved or established

MS4 operator

Edwards Aquifer rules

#### CERTIFICATION

Certification statements have been checked indicating “Yes”

Signature meets 30 Texas Administrative Code (TAC) §305.44 and is original.

# Notice of Intent (NOI) for Stormwater Discharges Associated with Industrial Activity under TPDES General Permit (TXR050000)

## General Information and Instructions

### GENERAL INFORMATION

#### Where to Send the Notice of Intent (NOI):

BY REGULAR U.S. MAIL  
Texas Commission on  
Environmental Quality  
Stormwater Processing Center  
(MC228)  
P.O. Box 13087  
Austin, Texas 78711-3087

BY OVERNIGHT/EXPRESS MAIL  
Texas Commission on  
Environmental Quality  
Stormwater Processing Center  
(MC228)  
12100 Park 35 Circle  
Austin, TX 78753

#### TCEQ Contact List:

Application – status and form questions:	<i>512/239-3700, <a href="mailto:supermit@tceq.texas.gov">supermit@tceq.texas.gov</a></i>
Technical questions:	<i>512/239-4671, <a href="mailto:swgp@tceq.texas.gov">swgp@tceq.texas.gov</a></i>
Environmental Law Division:	<i>512/239-0600</i>
Records Management - obtain copies of forms:	<i>512/239-0900</i>
Reports from databases (as available):	<i>512/239-DATA (3282)</i>
Cashier's office:	<i>512/239-0357 or 512/239-0187</i>

#### Notice of Intent Process:

When your NOI is received by the program, the form will be processed as follows:

- 1) **Administrative Review:** Each item on the form will be reviewed for a complete response. In addition, the operator's legal name must be verified with Texas Secretary of State as valid and active (if applicable). The address(s) on the form must be verified with the US Postal service as receiving regular mail delivery. Never give an overnight/express mailing address.
- 2) **Notice of Deficiency:** If an item is incomplete or not verifiable as indicated above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.
- 3) **Acknowledgment of Coverage:** An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit.  
-OR-  
**Denial of Coverage:** If the operator fails to respond to the NOD or the response is inadequate, coverage under the general permit may be denied. If coverage is denied, the operator will be notified.

#### General Permit (Your Permit)

For NOIs submitted **electronically** provisional coverage under the general permit begins immediately following confirmation of receipt of the NOI form by the TCEQ.

For **paper** NOIs provisional coverage under the general permit begins **7 days after a completed NOI is postmarked for delivery** to the TCEQ.

You should have a copy of your general permit when submitting your application. You may view and print your permit for which you are seeking coverage, on the TCEQ web site <http://www.tceq.texas.gov>. Search using key word TXR050000.

### **General Permit Forms**

The Notice of Intent (NOI), Notice of Termination (NOT), and Notice of Change (NOC) (including instructions) are available in Adobe Acrobat PDF format on the TCEQ web site <http://www.tceq.texas.gov>.

### **Change in Operator**

An authorization under the general permit is not transferable. If the operator of the regulated entity changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted no later than 10 days prior to the change in Operator status.

### **TCEQ Central Registry Core Data Form**

The Core Data Form has been incorporated into this form. Do not send a Core Data Form to TCEQ. After final acknowledgment of coverage under the general permit, the program will assign a Customer Number and Regulated Entity Number.

You can find the information on the Central Registry web site at <http://www12.tceq.texas.gov/crpub/index.cfm>. You can search by the Regulated Entity (RN), Customer Number (CN) or Name (Permittee), or by your permit number under the search field labeled "Additional ID". Capitalize all letters in the permit number.

The Customer (Permittee) is responsible for providing consistent information to the TCEQ, and for updating all CN and RN data for all authorizations as changes occur. For General Permits, a Notice of Change form must be submitted to the program area.

### **Fees associated with a General Permit**

The general permit refers to two different fees that apply to the operator. Payment of the fees may be made by check or money order, payable to TCEQ, or through EPAY (electronic payment through the web).

**Application Fee:** This fee is required to be paid at the time the NOI is submitted. Failure to submit payment at the time the application is filed will cause delays in acknowledgment or denial of coverage under the general permit.

#### **Mailed Payments:**

Payment must be mailed under separate cover at one of the addresses below using the attached Application Fee submittal form. (DO NOT SEND A COPY OF THE NOI WITH THE APPLICATION FEE SUBMITTAL FORM)

#### **BY REGULAR U.S. MAIL**

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
P.O. Box 13088  
Austin, TX 78711-3088

#### **BY OVERNIGHT/EXPRESS MAIL**

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
12100 Park 35 Circle  
Austin, TX 78753

**ePAY Electronic Payment:** [\hdg ##k k k \\* "hWe"lM Ug"l cj #YdUn#](#)

When making the payment you must select Water Quality, and then select the fee category “General Permit Industrial Stormwater Discharge NOI Application”. You must include a copy of the payment voucher with your NOI. Your NOI will not be considered complete without the payment voucher.

**Annual Water Quality Fee:** This fee is assessed to operators with an active authorization under the general permit on September 1 of each year. The operator will receive an invoice for payment of the annual fee in December of each year. The payment will be due 30 days from the invoice date. A 5% penalty will be assessed if the payment is received by TCEQ after the due date. Annual fee assessments cannot be waived as long as the authorization under the general permit is active on September 1. It is important for the operator to submit a Notice of Termination (NOT) when coverage under the general permit is no longer required. A NOT is effective on the postmarked date of mailing the form to TCEQ. It is recommended that the NOT be mailed using a method that documents the date mailed and received by TCEQ.

**Mailed Payments:**

You must return your payment with the billing coupon provided with the billing statement.

**ePAY Electronic Payment:**

Go to [\hdg ##k k k \\* "hWe"lM Ug"l cj #YdUn#](#)

You must enter your account number provided at the top portion of your billing statement. Payment methods include Mastercard, Visa, and electronic check payment (ACH). A single transaction over \$1000 can only be made by ACH.

**INSTRUCTIONS FOR FILLING OUT THE NOI FORM**

**Renewal of General Permit.** Dischargers holding active authorizations under the expired General Permit are required to submit a NOI to continue coverage. The existing permit number is required. If the permit number is not provided or has been terminated, expired, or denied a new permit number will be issued.

**1. Operator (Applicant)**

**a) Enter assigned Customer Number (CN)**

TCEQ’s Central Registry will assign each customer a number that begins with CN, followed by nine digits. **This is not a permit number, registration number, or license number.**

If this customer has not been assigned a CN, leave the space for the CN blank.

If this customer has already been assigned this number, enter the permittee’s CN.

**b) Legal Name**

Provide the current legal name of the permittee, as authorized to do business in Texas. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at 512/463-5555, for more information related to filing in Texas. If filed in the county where doing business, provide a copy of the legal documents showing the legal name.

**c) Person Signing Application**

Provide information about person signing section 6) Certification.

#### **d) Operator Contact's Mailing Address and Contact Information**

Provide a complete mailing address for receiving mail from the TCEQ. The address must be verifiable with the US Postal Service at <http://www.usps.com> for regular mail delivery (not overnight express mail). If you find that the address is not verifiable using the USPS web search, please indicate the address is used by the USPS for regular mail delivery.

The area code and phone number should provide contact to the operator. Leave Extension blank if not applicable.

The fax number and e-mail address are optional and should correspond to the operator.

#### **e) Type of Customer (Entity Type)**

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type. Note that the selected entity type also indicates the name that must be provided as an applicant for a permit, registration or authorization.

##### **Sole Proprietorship – DBA**

A sole proprietorship is a customer that is owned by only one person and has not been incorporated. This business may:

- be under the person's name
- have its own name (doing business as or d.b.a.)
- have any number of employees

If the customer is a Sole Proprietorship or DBA, the 'legal name' of the individual business 'owner' must be provided. The DBA name is not recognized as the 'legal name' of the entity. The DBA name may be used for the site name (regulated entity).

##### **Individual (or DBA)**

An individual is a customer who has not established a business, but conducts an activity that needs to be regulated by the TCEQ.

##### **Partnership**

- A customer that is established as a partnership as defined by the Texas Secretary of State Office (TX SOS). A Limited Partnership or Limited Liability Partnership (Partnership) is required to file with the Texas Secretary of State. A General Partnership or Joint Venture is not required to register with the state.
- **Partnership (Limited Partnership or Limited Liability Partnership):** A limited partnership is defined in the Act as a partnership formed by two or more persons under the provisions of Section 3 of the Uniform Limited Partnership Act (Art. 6132a, Revised Civil Statutes of Texas) and having as members one or more general partners and one or more limited partners. The limited partners as such are not bound by the obligations of the partnership. Limited partners may not take part in the day-to-day operations of the business. A Limited Partnership must file with the Texas Secretary of State. A registered limited liability partnership is a general or limited partnership that is registered with the Texas Secretary of State. The partnership's name must contain the words "Registered Limited Liability Partnership" or the abbreviation "L.L.P." as the last words or letters of its name.
- **General Partnership:** A general partner may or may not invest, participates in running the partnership and is liable for all acts and debts of the partnership and any member of it. A General Partnership does not have limited partners. For a General Partnership, there is no registration with the state or even written

agreement necessary for a general partnership to be formed. The legal definition of a partnership is generally stated as "an association of two or more persons to carry on as co-owners a business for profit" (Revised Uniform Partnership Act § 101 [1994]).

- **Joint Venture:** A joint venture is but another name for a special partnership. It might be distinguished from a general partnership in that the latter is formed for the transaction of a general business, while a joint venture is usually limited to a single transaction. That is, a joint venture is a special combination of persons in the nature of a partnership engaged in the joint prosecution of a particular transaction for mutual benefit or profit.

### **Corporation**

A customer meets all of these conditions:

- is a legally incorporated entity under the laws of any state or country
- is recognized as a corporation by the Texas Secretary of State
- has proper operating authority to operate in Texas.
- The corporation's 'legal name' as filed with the Texas Secretary of State must be provided as applicant. An 'assumed' name of a corporation is not recognized as the 'legal name' of the entity.

### **Government**

Federal, state, county, or city government (as appropriate)

The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's 'legal name' must be provided as the applicant. A department name or other description of the organization should not be included as a part of the 'legal name' as applicant.

### **Trust or Estate**

A trust and an estate are fiduciary relationships governing the trustee/executor with respect to the trust/estate property.

### **Other Government**

A utility district, water district, tribal government, college district, council of governments, or river authority. Write in the specific type of government.

### **Other**

The customer does not fit any of the above descriptions. Enter a short description of the type of customer in the blank provided.

### **f) Independent Entity**

Check No if this customer is a subsidiary, part of a larger company, or is a governmental entity. Otherwise, check Yes.

### **g) Number of Employees**

Check one box to show the number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the application.

### **h) Customer Business Tax and Filing Numbers**

These are required for Corporations and Limited Partnerships. These are not required for Individuals, Government, and Sole Proprietors.

**State Franchise Tax ID Number**

Corporations and limited liability companies that operate in Texas are issued a franchise tax identification number. If this customer is a corporation or limited liability company, enter this number here.

**Federal Tax ID**

All businesses, except for some small sole proprietors, individuals, or general partnerships should have a federal taxpayer identification number (TIN). Enter this number here. Use no prefixes, dashes, or hyphens. Sole proprietors, individuals, or general partnerships do not need to provide a federal tax ID.

**TX SOS Charter (filing) Number**

Corporations and Limited Partnerships required to register with the Texas Secretary of State are issued a charter or filing number. You may obtain further information by calling SOS at 512/463-5555.

**DUNS Number**

Most businesses have a DUNS (Data Universal Numbering System) number issued by Dun and Bradstreet Corp. If this customer has one, enter it here.

**2. ANNUAL BILLING CONTACT**

An annual fee is assessed to each operator holding an active authorization under the general permit on September 1 of each year.

Provide the complete mailing address where the annual fee invoice should be mailed. Verify the address with the USPS. It must be an address for delivery of regular mail, not overnight express mail. Also, provide a phone number of the operator's representative responsible for payment of the invoice.

If this address is outside the United States, enter the territory name, country code, and any non-ZIP mailing codes or other non-U.S. Postal Service features here. If this address is inside the United States, leave these spaces blank.

**3. APPLICATION CONTACT**

Provide the name, title and communication information of the person that TCEQ can contact for additional information regarding this application.

**4. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE****a) Regulated Entity Reference Number (RN)**

A number issued by TCEQ's Central Registry to sites (a location where a regulated activity occurs) regulated by TCEQ. This is not a permit number, registration number, or license number. If this regulated entity has not been assigned an RN, leave this space blank.

If the site of your business is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search TCEQ's Central Registry to see if the larger site may already be registered as a regulated site at:

<http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=regent.RNSearch>



If the site is found, provide the assigned Regulated Entity Reference Number (RN) and provide the information for the site to be authorized through this application. The site information for this authorization may vary from the larger site information.

An example is a chemical plant where a unit is owned or operated by a separate corporation that is accessible by the same physical address of your unit or facility. Other examples include industrial parks identified by one common address but different corporations have control of defined areas within the site. In both cases, an RN would be assigned for the physical address location and the permitted sites would be identified separately under the same RN.

**b) Site/Project Name/Regulated Entity**

Provide the name of the site as known by the public in the area where the site is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity name.

**c) Description of Activity Regulated**

In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the SIC Code description.

**d) County**

Identify the county or counties in which the regulated entity is located.

**e) Latitude and Longitude**

Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to:

<http://www.tceq.texas.gov/gis/sqmapview.html> or <http://msrmaps.com/advfind.aspx>

**f) Site/Project (RE) Physical Address/Location Information**

Enter the complete address for the site in Section A if the address can be validated through the US Postal Service. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate a site. Please confirm this to be a complete and valid address. Please do not use a rural route or post office box for a site location.

If a site does not have an address that includes a street (or house) number and street name, enter NO ADDRESS for the street name in Section A. In Section B provide a complete written location description. For example: "The site is located 2 miles west from intersection of Hwy 290 & IH35, located on the southwest corner of the Hwy 290 South bound lane."

Provide the city (or nearest city) and zip code of the facility location.

**5. GENERAL CHARACTERISTICS**

**a) Indian Country Lands**

If your site is located on Indian Country Lands, the TCEQ does not have authority to process your application. You must obtain authorization through EPA, Region VI, Dallas. Do not submit this form to TCEQ.

**b) Primary Standard Industrial Classification (SIC) Code**

Provide the SIC Code that is within the range listed and corresponds with the selected Activity or Sector in the General Permit. It is possible that a Primary SIC Code relates to the overall operation of the business and is not a specific SIC Code that relates to the particular Storm Water activity. Please enter the SIC Code for the industrial activity that qualifies for coverage in the general permit as the Primary SIC Code.

For Industrial activities with Primary or Secondary SIC Codes 1411, 1422, 1423, 1429, 1442, 1446, 1474, 1475, 1479, 1481, or 1499 and within Palo Pinto or Parker counties, provisional coverage will begin upon submittal of the NOI, however, the application will be reviewed by the program to determine eligibility. Approval is not automatic. Coverage under TPDES General Permit TXG500000 or an Individual Permit may be required. Contact the Stormwater and Pretreatment Team at (512)239-4671 for further information. Application status may be viewed at [\Hd.##kkk\) 'TW' 'M U' \[cj. #keSXdU#](#).

General Permit TXR050000 defines the industrial activity sectors listed on the NOI on the basis of SIC and activity codes. For more information, go to the TCEQ web site at: [www.tceq.state.tx.us](http://www.tceq.state.tx.us). Search for key word 'TXR050000' and select "Am I Regulated?" web page. For help with SIC Codes, go to: <http://www.osha.gov/pls/imis/sicsearch.html>

### **c) Secondary SIC Code**

For help with SIC codes go to <http://www.osha.gov/pls/imis/sicsearch.html>

For Industrial activities with Secondary SIC Codes 1411, 1422, 1423, 1429, 1442, 1446, 1474, 1475, 1479, 1481, or 1499 and within Palo Pinto or Parker counties, certification that this application does not include any discharges from quarries located in the John Graves Scenic Riverway, in the Brazos River Basin, as described in Texas Water Code, Subchapter 26.553 is required. Contact the Stormwater and Pretreatment Team at (512)239-4671 for further information.

### **d) Industrial Activity Sector**

General Permit TXR050000 defines the 30 industrial activity sectors listed on the form on the basis of SIC and activity codes.

The need for a permit, and the eligibility for coverage under this general permit, is determined either by a facility's primary SIC code or by an Industrial Activity Code that is described in this general permit.

Sectors of industrial activity are divided into sub-sectors and further defined by SIC codes in the general permit. Operators of facilities with a primary SIC code that is included in the general permit must obtain authorization for discharges of stormwater associated with industrial activity and are eligible for coverage under this general TPDES permit.

Sector AD is used to provide permit coverage for facilities that are designated by the executive director as needing a permit to control pollution related to stormwater discharges and that do not meet the description of an industrial activity covered by Sectors A-AC. A facility that is not otherwise listed in the general permit is not eligible to apply for coverage under AD unless directed to do so in writing by the executive director. A copy of the letter from TCEQ will be required with the NOI.

For more information, go to the TCEQ web site at: [www.tceq.texas.gov](http://www.tceq.texas.gov). Search for key word 'TXR050000' and select "Am I Regulated" web page.

### **e) Activity Code or Qualifying Activity Type**

If any of the following narrative descriptions pertain to your facility, provide the appropriate activity code. This item is not applicable if the facility is defined under a Sector.

**HZ:** Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA;

**LF:** Landfills, land application sites, and open dumps that receive or have received any industrial wastes, including those that are subject to regulation under Subtitle D of RCRA;

**SE:** Steam electric power generating facilities, including coal handling sites;

**TW:** Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage.

If the facility generates or discharges stormwater from one of the following sources that is regulated by federal effluent limitations guidelines at 40 CFR Parts 400 through 471, and the industrial activity is described as the Secondary SIC Code, coverage is still attainable by selecting one of the Industrial Activity Types:

- **Wet Decking Water** - Described in the Wet Storage Subcategory (Subpart I) of the Timber Products Processing Point Source Category (40 CFR Part 429).
- **Phosphate Fertilizers** - Stormwater runoff that has come into contact with any raw materials, intermediate product, finished product, by-product or waste from areas of industrial activity described by SIC code 2874 (Phosphatic Fertilizers), as described in the Phosphate Subcategory (Subpart A) of the Fertilizer Manufacturing Point Source Category (40 CFR Part 418.)
- **Asphalt Emulsion** - Stormwater runoff from asphalt paving and roofing emulsion production areas, as described in the Asphalt Emulsion Subcategory of the Paving and Roofing Materials (Tars and Asphalt) Manufacturing Point Source Category (40 CFR § 443.13).
- **Cement Manufacturing Materials** - Stormwater runoff from cement manufacturing facilities (i.e., stormwater runoff from a process area, that has come into contact with raw materials, intermediate products, finished products, by-products, material storage piles or waste materials), as described in the Material Storage Piles Runoff Subcategory of the Cement Manufacturing Point Source Category (40 CFR § 411.32).
- **Mining of Sand, Gravel, or Crushed Stone** - Stormwater and non-contaminated groundwater seepage from Construction Sand and Gravel mining operations (SIC 1442), Industrial Sand mining operations (SIC 1446), or Crushed Stone mining operations (SIC 1422 – 1429) (40 CFR Part 436).

**f) Identify the water body** the stormwater discharge or potential discharge will reach. The stormwater may be discharged directly to a receiving stream or through a MS4 from your site. It eventually reaches a receiving water body such as a local stream or lake, possibly via a drainage ditch. You must provide the name of the water body that receives the discharge from the site (a local stream or lake).

**g) Identify the classified segment number.** Go to the link to find the segment number of the classified water body where wastewater will flow  
<http://www.tceq.texas.gov/compliance/monitoring/water/quality/data/wqm/viewer/viewer.htm>  
You may also find the segment number in TCEQ publication GI-316 .

If the discharge is into an unclassified receiving water and then crosses state lines prior to entering a classified segment, select the appropriate watershed:

0100 (Canadian River Basin)

0200 (Red River Basin)

0300 (Sulfur river Basin)

0400 (Cypress Creek Basin)

0500 (Sabine River Basin)

Call 512/239-4671 for further assistance

**h) Identify any surface water bodies** receiving discharges or potential discharges from the facility that are on the latest EPA-approved CWA § 303(d) list of impaired waters.

EPA approved CWA 303d list of impaired waters can be found at:

[http://www.tceq.texas.gov/waterquality/assessment/305\\_303.html](http://www.tceq.texas.gov/waterquality/assessment/305_303.html). Provide the name or number of the impaired classified water body.

**i) Indicate if the discharge or potential discharge flows to a water body that has an EPA-approved or established TMDL.** See the general permit requirements for Impaired Water Bodies and Total Maximum Daily Load (TMDL).

**j) Identify the MS4 Operator** if the stormwater discharge is into an MS4. Provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, or utility district, but possibly can be another form of government. The General permit requires you to send a copy of the NOI to the MS4 operator. For assistance, you may call the technical staff at 512/239-4671.

**k) Discharges to the Edwards Aquifer Recharge Zone**

See maps on the TCEQ website to determine if the site is located within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer at: <http://www.tceq.texas.gov/field/eapp/viewer.html>.

If the discharge or potential discharge is within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, a site specific authorization approved by the Executive Director under the Edwards Aquifer Protection Program (30 TAC Chapter 213) is required. The general permit requires the approved Contributing Zone Plan or Water Pollution Abatement Plan to be included or referenced as a part of the Stormwater Pollution Prevention Plan.

The certification must be answered “yes” for coverage under the general permit.

**6. CERTIFICATIONS**

Failure to indicate “Yes” to ALL of the certification items may result in denial of coverage under the general permit.

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

**IF YOU ARE A CORPORATION:**

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(1) (see below). According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been

delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

**IF YOU ARE A MUNICIPALITY OR OTHER GOVERNMENT ENTITY:**

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(3) (see below). According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the Texas Commission on Environmental Quality's Environmental Law Division at 512/239-0600.

**30 Texas Administrative Code**

**§305.44. Signatories to Applications**

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

# Texas Commission on Environmental Quality General Permit Payment Submittal Form

**Use this form to submit your Application Fee only if you are mailing your payment.**

- Complete items 1 through 5 below:
- Staple your check in the space provided at the bottom of this document.
- Do not mail this form with your NOI form.
- Do not mail this form to the same address as your NOI.

## Mail this form and your check to:

### *BY REGULAR U.S. MAIL*

Texas Commission on Environmental  
Quality  
Financial Administration Division  
Cashier's Office, MC-214  
P.O. Box 13088  
Austin, TX 78711-3088

### *BY OVERNIGHT/EXPRESS MAIL*

Texas Commission on Environmental  
Quality  
Financial Administration Division  
Cashier's Office, MC-214  
12100 Park 35 Circle  
Austin, TX 78753

Fee Code: GPA

General Permit:

TXR050000

1. Check / Money Order No: \_\_\_\_\_
2. Amount of Check/Money Order: \_\_\_\_\_
3. Date of Check or Money Order: \_\_\_\_\_
4. Name on Check or Money Order: \_\_\_\_\_
5. NOI INFORMATION

If the check is for more than one NOI, list each Project/Site (RE) Name and Physical Address exactly as provided on the NOI. DO NOT SUBMIT A COPY OF THE NOI WITH THIS FORM AS IT COULD CAUSE DUPLICATE PERMIT ENTRIES.

See Attached List of Sites (If more space is needed, you may attach a list.)

Project/Site (RE) Name: \_\_\_\_\_

Project/Site (RE) Physical Address:  
\_\_\_\_\_

**Staple Check in This Space**

TCEQ-0599 Attachments

**Agent Authorization Form**

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

I J.J. Clark,  
Print Name  
President  
\_\_\_\_\_  
Title - Owner/President/Other  
of JOLLY'S DEVELOPMENT GROUP LLC,  
Corporation/Partnership/Entity Name  
have authorized THOMAS LOOMIS, PE  
Print Name of Agent/Engineer  
of SAXON LOOMIS CONSULTING GROUP  
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:

[Handwritten Signature]  
Applicant's Signature

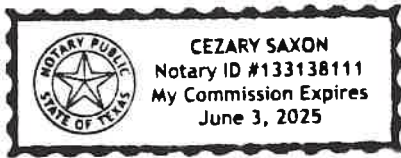
9/22/2023  
Date

THE STATE OF TEXAS §

County of TRAVIS §

BEFORE ME, the undersigned authority, on this day personally appeared J.S. Clark 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 22 day of September, 2023.



[Handwritten Signature]

NOTARY PUBLIC

CEZARY SAXON

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: JUNE 3, 2025

**TCEQ-0599 Attachments**

**Application Fee Form (TCEQ-0574)**

# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Sandstone Residential Subdivision

Regulated Entity Location: 9223 Sandstone St, Austin, TX 78737

Name of Customer: JOLLY'S DEVELOPMENT GROUP LLC

Contact Person: J.J. Clark

Phone: (512)-650-5455

Customer Reference Number (if issued): CN CN606180057

Regulated Entity Reference Number (if issued): RN RN111806766

### Austin Regional Office (3373)

Hays

Travis

Williamson

### San Antonio Regional Office (3362)

Bexar

Medina

Uvalde

Comal

Kinney

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

Austin Regional Office

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

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

Recharge Zone

Contributing Zone

Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	9.999 Acres	\$ 3,000
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: 

Date: 10/18/2023

# Application Fee Schedule

Texas Commission on Environmental Quality

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

## ***Water Pollution Abatement Plans and Modifications***

### ***Contributing Zone Plans and Modifications***

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

### ***Organized Sewage Collection Systems and Modifications***

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

### ***Underground and Aboveground Storage Tank System Facility Plans and Modifications***

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

### ***Exception Requests***

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

### ***Extension of Time Requests***

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

**Check Payable to the "Texas Commission on Environmental Quality"**

**TCEQ-10400 Attachments**

**Core Data Form (TCEQ-10400)**



# 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

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 606180057		RN 111806766

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)		9/19/2023	
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>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).</i>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Jolly's Development Group LLC					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
<b>11. Type of Customer:</b>		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>				<b>13. Independently Owned and Operated?</b>	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
<b>15. Mailing Address:</b>	10204 Oak Grove Cir				
City	Austin	State	TX	ZIP	78736
				ZIP + 4	
<b>16. Country Mailing Information</b> (if outside USA)				<b>17. E-Mail Address</b> (if applicable)	
N/A				tfc.inc@gmail.com	
<b>18. Telephone Number</b>			<b>19. Extension or Code</b>		<b>20. Fax Number</b> (if applicable)

**SECTION III: Regulated Entity Information**

<b>21. General Regulated Entity Information</b> <i>(If 'New Regulated Entity' is selected, a new permit application is also required.)</i>							
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information							
<i>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).</i>							
<b>22. Regulated Entity Name</b> <i>(Enter name of the site where the regulated action is taking place.)</i>							
Sandstone Residential Subdivision							
<b>23. Street Address of the Regulated Entity:</b> <i>(No PO Boxes)</i>							
		City		State		ZIP	
						ZIP + 4	
<b>24. County</b>							

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

<b>25. Description to Physical Location:</b>		9223 Sandstone Street, Austin, TX 78737 (1366 ft East of Ledgestone Terrace and Sandstone Street Intersection)					
<b>26. Nearest City</b>				<b>State</b>		<b>Nearest ZIP Code</b>	
Austin				TX		78737	
<i>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).</i>							
<b>27. Latitude (N) In Decimal:</b>			<b>28. Longitude (W) In Decimal:</b>				
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
30	13	5	97	55	36.36		
<b>29. Primary SIC Code</b> (4 digits)		<b>30. Secondary SIC Code</b> (4 digits)		<b>31. Primary NAICS Code</b> (5 or 6 digits)		<b>32. Secondary NAICS Code</b> (5 or 6 digits)	
1522							
<b>33. What is the Primary Business of this entity?</b> <i>(Do not repeat the SIC or NAICS description.)</i>							
<b>34. Mailing Address:</b>		10204 Oak Grove Cir					
		City	Austin	State	TX	ZIP	78736
						ZIP + 4	
<b>35. E-Mail Address:</b>		tfc.inc@gmail.com					
<b>36. Telephone Number</b>			<b>37. Extension or Code</b>			<b>38. Fax Number</b> <i>(if applicable)</i>	
( 512 ) 650-5455						( ) -	

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




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

### **SECTION IV: Preparer Information**

<b>40. Name:</b>	Thomas Loomis			<b>41. Title:</b>	Project Manager
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>		
( 512 ) 917-7265		( ) -	tom.loomis@saxonloomis.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.

<b>Company:</b>	Saxon Loomis Consulting Group		<b>Job Title:</b>	Project Manager	
<b>Name (In Print):</b>	Thomas Loomis			<b>Phone:</b>	( 512 ) 917- 7265
<b>Signature:</b>				<b>Date:</b>	9/18/2023

**CONSTRUCTION PLANS  
(SANDSTONE RESIDENTIAL SUBDIVISION)**

# SANDSTONE RESIDENTIAL SUBDIVISION CONSTRUCTION PLANS

**9223 SANDSTONE ST  
AUSTIN, TX 78737**

**SITE INFORMATION:**

LEGAL DESCRIPTION:  
ABS 222 SUR 68 DELATULLE R ACR 9.999

FLOODPLAIN NOTE:  
NO PORTION OF THIS SITE IS WITHIN THE 100 YEAR FLOODPLAIN AS PER FEMA MAP PANEL NO. 48453C0560J, JANUARY 1, 2020.

THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR OR ENGINEER.

WATERSHED NOTE:  
THIS PROPERTY IS LOCATED IN THE ONION CREEK-COLORADO RIVER WATERSHED, ONION CREEK-COLORADO RIVER IS A SUBURBAN WATERSHED.

**PROJECT INFORMATION**

9 RESIDENTIAL LOTS  
TOTAL ACREAGE: 9.99 AC  
AREA IN STREETS: 1.08 AC

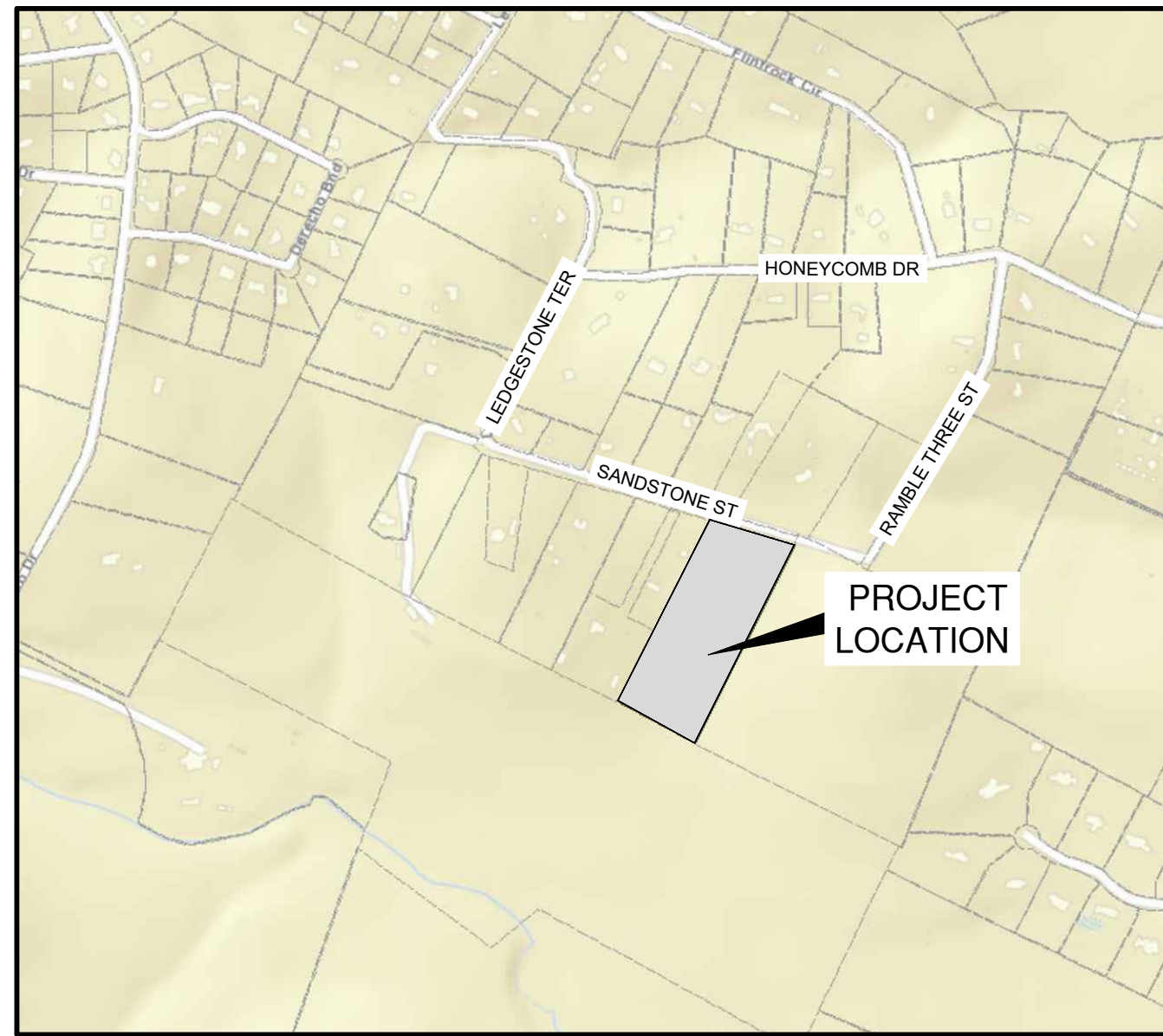
**GENERAL NOTES:**

1. BEFORE BEGINNING CONSTRUCTION ACTIVITIES ON A SUBDIVISION LOT, THE OWNER MUST OBTAIN A TRAVIS COUNTY DEVELOPMENT PERMIT AND, WHEN APPLICABLE, OBTAIN AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWP3). THE SWP3 REQUIRES IMPLEMENTATION OF TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES, INCLUDING EROSION AND SEDIMENT CONTROLS, FOR PROTECTION OF STORM WATER RUNOFF QUALITY, IN ACCORDANCE WITH THE TRAVIS COUNTY CODE.
2. ELECTRIC SERVICE WILL BE PROVIDED BY PEDERNALES ELECTRIC COOPERATIVE.
3. PEDERNALES ELECTRIC COOPERATIVE HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY AND OTHER OBSTRUCTIONS TO THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. PEDERNALES ELECTRIC COOPERATIVE WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH TRAVIS COUNTY LAND DEVELOPMENT CODE.
4. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE PEDERNALES ELECTRIC COOPERATIVE WITH ANY EASEMENT AND/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED, FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. THESE EASEMENTS AND/OR ACCESS ARE REQUIRED TO PROVIDE ELECTRIC SERVICE TO THE BUILDING AND WILL NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE OUT OF COMPLIANCE WITH TRAVIS COUNTY LAND DEVELOPMENT CODE.
5. A TRAVIS COUNTY SITE DEVELOPMENT PERMIT IS REQUIRED PRIOR TO ANY SITE DEVELOPMENT.
6. THE OWNER OF THIS SUBDIVISION, AND HIS OR HERS SUCCESSORS OR ASSIGNS, ASSUMES RESPONSIBILITY FOR PLANS FOR CONSTRUCTION OF SUBDIVISION IMPROVEMENTS WHICH COMPLY WITH APPLICABLE CODES AND REQUIREMENTS OF TRAVIS COUNTY. THE OWNER UNDERSTANDS AND ACKNOWLEDGES THAT PLAT VACATION OR REPLATTING MAY BE REQUIRED, AT THE OWNER'S SOLE EXPENSE, IF PLANS TO CONSTRUCT THIS SUBDIVISION DO NOT COMPLY WITH SUCH CODES AND REQUIREMENTS.
7. NO OBJECTS, INCLUDING BUT NOT LIMITED TO BUILDINGS, FENCES, OR LANDSCAPING SHALL BE ALLOWED IN A DRAINAGE EASEMENT EXCEPT APPROVED BY TRAVIS COUNTY.
8. PROPERTY OWNER AND/OR HIS/HER ASSIGNS SHALL PROVIDE ACCESS TO THE DRAINAGE EASEMENT AS MAY BE NECESSARY AND SHALL NOT PROHIBIT ACCESS BY TRAVIS COUNTY FOR INSPECTION OR MAINTENANCE OF SAID EASEMENT.
9. ALL DRAINAGE EASEMENTS ON PRIVATE PROPERTY SHALL BE MAINTAINED BY THE OWNER AND/OR HIS/HER ASSIGNS.
10. WATER SERVICE WILL BE PROVIDED BY HAZY HILL WATER DISTRICT AKA SPICEWOOD UTILITY, OR INDIVIDUAL ON-SITE WELLS, WASTEWATER SERVICE WILL BE PROVIDED BY ON-SITE SEWAGE FACILITIES.
11. NO STRUCTURE SHALL BE OCCUPIED UNTIL CONNECTED TO AN APPROVED PRIVATE INDIVIDUAL SEWAGE DISPOSAL SYSTEM AND UNTIL WATER SATISFACTORY HUMAN CONSUMPTION IS AVAILABLE FROM A SOURCE IN ADEQUATE AND SUFFICIENT SUPPLY.
12. THIS SUBDIVISION IS NOT WITHIN AN ETJ OF ANY MUNICIPALITY.
13. AT&T IS THE TELEPHONE SERVICE PROVIDER FOR THIS SUBDIVISION.
14. PROPOSED LOTS ARE FOR RESIDENTIAL USE.
15. AS DEPICTED THE SETBACK AREA IDENTIFIED FOR EACH WATERWAY IS A PROTECTIVE EASEMENT THAT MUST REMAIN UNDEVELOPED AND ACTIVITIES MUST BE LIMITED WITHIN THE EASEMENT. THE PROTECTIVE EASEMENT MUST REMAIN FREE OF CONSTRUCTION, DEVELOPMENT, AND OTHER ALTERATIONS EXCEPT WHEN SPECIFICALLY APPROVED IN A TRAVIS COUNTY DEVELOPMENT PERMIT.
16. THIS SUBDIVISION IS SUBJECT TO THE LOWER COLORADO RIVER AUTHORITY (LCRA) HIGHLAND LAKES WATERSHED ORDINANCE. WRITTEN NOTIFICATIONS AND/OR PERMITS ARE REQUIRED PRIOR TO COMMENCEMENT OF ANY DEVELOPMENT ACTIVITIES.
17. EXTENSION OF HART HOLLOW DRIVE WILL BE A PRIVATE STREET WITH AN ELECTRONIC GATE. PRIVATE SIDEWALK FOR THIS ROADWAY EXTENSION TO BE DEVELOPED IN ACCORDANCE WITH TRAVIS COUNTY CODE.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF MANOR AND TRAVIS COUNTY ESD NO. 12 MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER. REVIEW OF THE SUBMITTED MATERIALS DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR ORDINANCE COMPLIANCE BY THE CITY AND/OR COUNTY ENGINEER.

THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR ASSUMES ALL LIABILITY FOR ANY DAMAGE THAT MAY RESULT IN NOT CORRECTLY LOCATING UTILITIES.

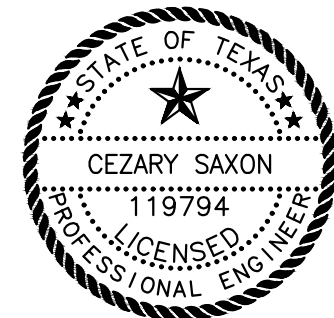
TRAVIS COUNTY REVISION BLOCK: NO.	REVISION DESCRIPTION	REVIEWED BY:	DATE



LOCATION MAP  
NTS

SUBMITTED FOR APPROVAL BY:

*Cezary Saxon*  
CEZARY SAXON P.E.



7/18/2023  
DATE

**OWNER:**  
JOLLYS DEVELOPMENT GROUP LLC  
10204 OAK GROVE CIR  
AUSTIN, TX 78736-7747  
CONTACT:  
PHONE: (512) 650-5455

**ENGINEER:**



**SAXON  
LOOMIS**  
CONSULTING GROUP  
2216 COLLEGE AVENUE AUSTIN, TEXAS  
78704  
PHONE: (512) 660-0500  
F-19735 TBPE FIRM REGISTRATION NO.

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS
4	SITE PLAN
5	EXISTING DRAINAGE AREA MAP
6	PROPOSED DRAINAGE AREA MAP
7	DETENTION POND DETAILS
8	UTILTY PLAN
9	EROSION CONTROL PLAN
10	DIMENSIONAL CONTROL PLAN
11	WATERLINE PLAN AND PROFILE
12	FIRE PROTECTION SITE EXHIBIT
13	WATER QUALITY IRRIGATION PLAN 1 OF 3
14	WATER QUALITY IRRIGATION PLAN 2 OF 3
15	WATER QUALITY IRRIGATION PLAN 3 OF 3
16	ON-SITE SEWAGE TREATMENT SYSTEM FEASIBILITY REPORT 1 OF 2
17	ON-SITE SEWAGE TREATMENT SYSTEM FEASIBILITY REPORT 2 OF 2
18	CONSTRUCTION DETAILS 1 OF 2
19	CONSTRUCTION DETAILS 2 OF 2

APPLICATION DATE: 7-18-2023

SITE DEVELOPMENT PERMIT NUMBER: SP-\_\_\_\_\_

APPROVED BY: \_\_\_\_\_  
TEXAS DEPARTMENT OF TRANSPORTATION DATE

APPROVED BY: \_\_\_\_\_  
PEDERNALES FIRE DEPARTMENT DATE

APPROVED BY: \_\_\_\_\_  
HAZY HILLS WATER SUPPLY CORPORATION DATE

APPROVED BY: \_\_\_\_\_  
TRAVIS COUNTY TRANSPORTATION AND NATURAL RESOURCES DATE

APPROVED BY: \_\_\_\_\_  
DEVELOPMENT PERMIT NUMBER DATE

DATE: JULY, 2023

SHEET: 1 OF 19

(SP-XX)

SANDSTONE RESIDENTIAL SUBDIVISION  
SITE PLAN PERMIT

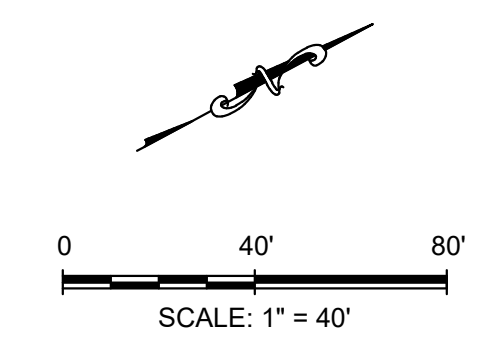


TAG	SIZE	SPECIES
1863	12"	LIVE OAK
1864	12"	LIVE OAK
1865	10.5"	LIVE OAK
1866	6.5"	LIVE OAK
1867	9"	LIVE OAK
1868	14"	LIVE OAK
1869	8.8"	LIVE OAK
1870	MT-11"-7.5"	LIVE OAK
1871	6"	LIVE OAK
1872	9"	LIVE OAK
1873	14.5"	LIVE OAK
1874	8"	LIVE OAK
1875	6.5"	LIVE OAK
1876	6"	LIVE OAK
1877	10"	LIVE OAK
1878	5.5"	LIVE OAK
1879	7.5"	LIVE OAK
1880	8"	LIVE OAK
1881	6.5"	LIVE OAK
1882	MT-9.5"-8.5"	LIVE OAK
1883	14"	LIVE OAK
1884	12"	LIVE OAK
1885	MT-12"-7"	LIVE OAK
1886	12.5"	LIVE OAK
1887	11.5"	LIVE OAK
1888	11"	LIVE OAK
1889	MT-10"-9.5"	LIVE OAK
1890	6"	LIVE OAK
1891	11"	LIVE OAK
1892	18"	LIVE OAK
1893	8"	LIVE OAK
1894	MT-10"-10"	LIVE OAK
1895	12"	LIVE OAK
1896	6"	LIVE OAK
1897	9"	LIVE OAK
1898	6.5"	LIVE OAK
1899	9.5"	LIVE OAK
1900	6"	LIVE OAK

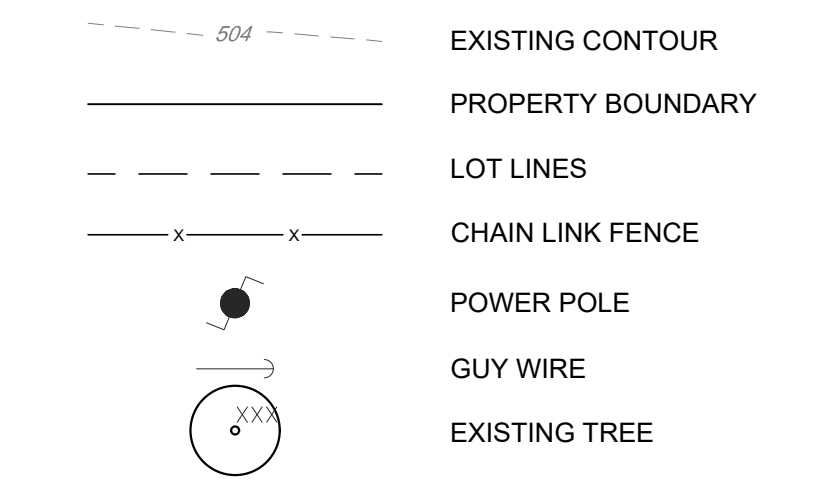
1901	MT-16"-12"	LIVE OAK
1902	MT-15"-12"	LIVE OAK
1903	10"	LIVE OAK
1904	9"	LIVE OAK
1905	MT-10.5"-6"	LIVE OAK
1906	MT-12"-13"	LIVE OAK
1907	MT-9"-7.5"	UNKNOWN
1908	16.5"	UNKNOWN
1909	MT-6.5"-6"	UNKNOWN
1910	9"	UNKNOWN
1911	9.5"	UNKNOWN
1912	5.5"	UNKNOWN
1913	8"	UNKNOWN
1914	8.5"	UNKNOWN
1915	11"	UNKNOWN
1916	9"	UNKNOWN
1917	8"	UNKNOWN
1918	10"	UNKNOWN
1919	20.5"	UNKNOWN
1920	10"	UNKNOWN
1921	9"	LIVE OAK
1922	MT-10"-7"	LIVE OAK
1923	12.5"	LIVE OAK
1924	9.5"	LIVE OAK
1925	9.5"	LIVE OAK
1926	9"	LIVE OAK
1927	5"	UNKNOWN
1928	7"	UNKNOWN
1929	13"	LIVE OAK
1930	13"	LIVE OAK
1931	12"	LIVE OAK
1932	MT-11"-7.5"	LIVE OAK
1933	MT-10"-3.5"	UNKNOWN
1934	MT-10"-14"	UNKNOWN
1935	11"	UNKNOWN
1936	MT-8.5"-5"	UNKNOWN
1937	15.5"	UNKNOWN
1938	8"	UNKNOWN
1939	8"	LIVE OAK
1940	15"	UNKNOWN

1941	13.5"	LIVE OAK
1942	8"	UNKNOWN
1943	MT-8"-6"	UNKNOWN
1944	17"	LIVE OAK
1945	7.5"	LIVE OAK
1946	11"	LIVE OAK
1947	8"	UNKNOWN
1948	10"	UNKNOWN
1949	11.5"	UNKNOWN
1950	8.5"	UNKNOWN
1951	10"	UNKNOWN
1952	10"	UNKNOWN
1953	MT-11.5"-19"	LIVE OAK
1954	11.5"	LIVE OAK
1955	13"	LIVE OAK
1956	10"	LIVE OAK
1957	10.5"	LIVE OAK
1958	10"	LIVE OAK
1959	11"	LIVE OAK
1960	12"	LIVE OAK
1961	13.5"	LIVE OAK
1962	10"	LIVE OAK
1963	10"	LIVE OAK
1964	19"	LIVE OAK
1965	12"	LIVE OAK
1966	13"	LIVE OAK
1967	12"	LIVE OAK
1968	8"	LIVE OAK
1969	8"	LIVE OAK
1970	11"	LIVE OAK
1971	MT-10.5"-9.5"	LIVE OAK
1972	11.5"	LIVE OAK
1973	12"	LIVE OAK
1974	7"	LIVE OAK
1975	9"	LIVE OAK
1976	6.5"	LIVE OAK
1977	8"	LIVE OAK
1978	MT-10.5"-11"	LIVE OAK
1979	7"	LIVE OAK
1980	14.5"	LIVE OAK

1981	16"	LIVE OAK
1982	8"	LIVE OAK
1983	9"	LIVE OAK
1984	15"	LIVE OAK
1985	9"	LIVE OAK
1986	8.5"	LIVE OAK
1987	11"	LIVE OAK
1988	15.5"	LIVE OAK
1989	MT-10"-14.5"	LIVE OAK
1990	14"	LIVE OAK
1991	MT-11"-13"	LIVE OAK
1992	7"	LIVE OAK
1993	15.5"	LIVE OAK
1994	8"	LIVE OAK
1995	11"	LIVE OAK
1996	9.5"	LIVE OAK
1997	MT-10.5"-11"	LIVE OAK
1998	4"	WHITE OAK
1999	MT-18"-15.5"	WHITE OAK
2000	MT-9"-5.5"	LIVE OAK
2001	5.5"	LIVE OAK
2002	10"	LIVE OAK
2003	MT-4.5"-5.5"	LIVE OAK



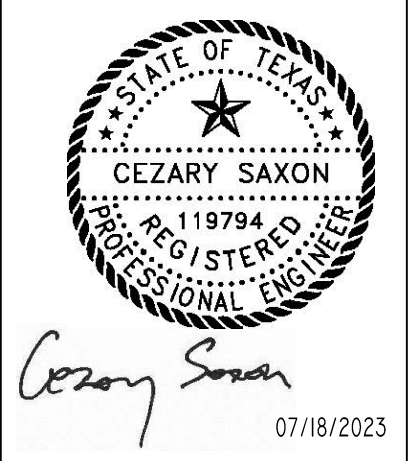
**LEGEND**



TBPE Firm  
Registration No.  
F-19735

CEZARY SAXON, PE  
SAXON LOOMIS  
CONSULTING GROUP  
2216 COLLEGE AVE.  
AUSTIN, TEXAS 78704  
Phone: (512) 660-0500

**EXISTING CONDITIONS**  
SANDSTONE RESIDENTIAL SUBDIVISION  
9223 SANDSTONE STREET, AUSTIN, TX 78737



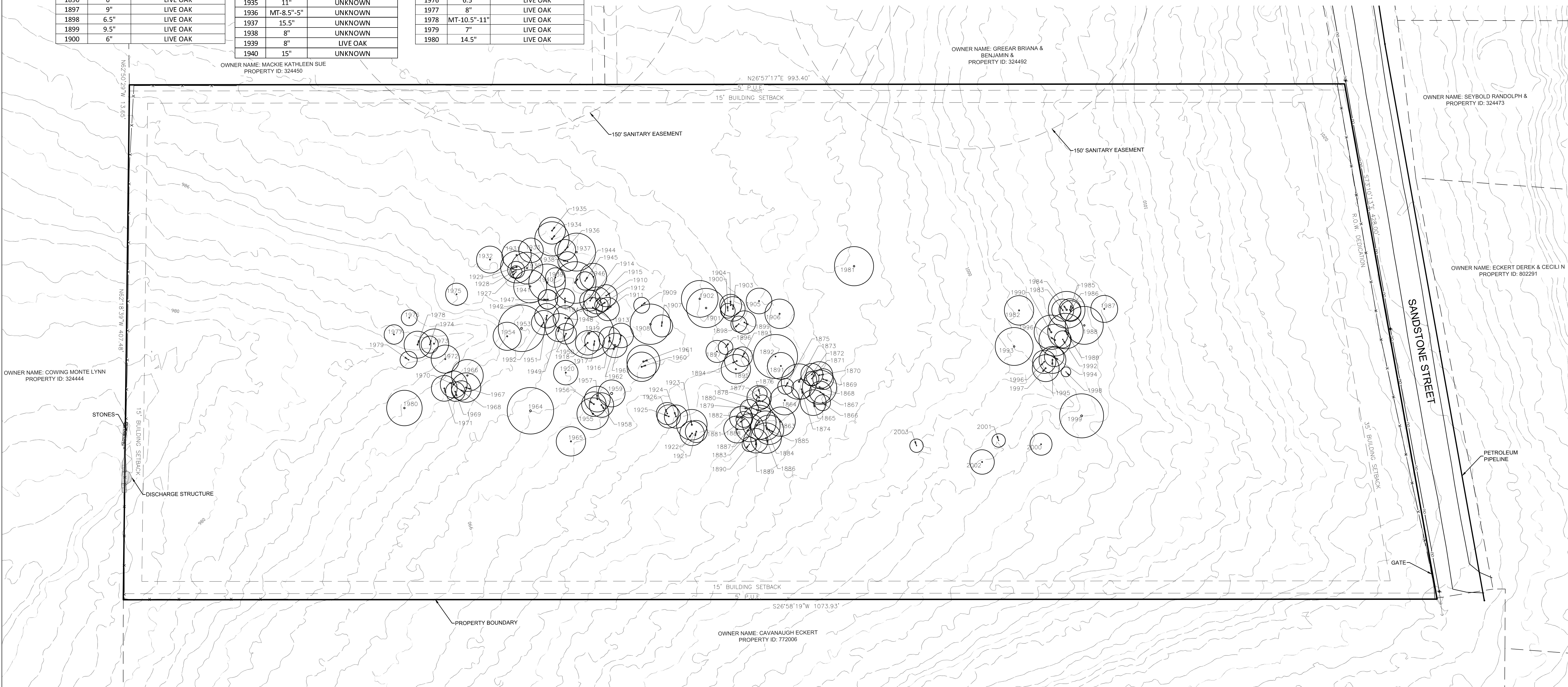
07/18/2023

DATE	DESCRIPTION
CS	CB/AO TGL/CS
DESIGN	DRAWN CHKD

JOB No.  
DATE: JULY 2023

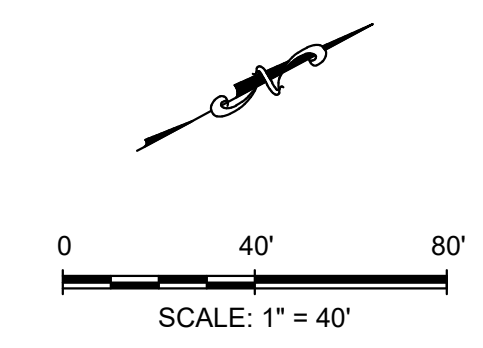
SHEET **3** OF **19**

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**SUMMARY TABLE**

LOT NUMBER	AREA (AC)	FRONTAGE (FT)
1	1.040	144
2	1.032	227
3	1.080	236
4	1.067	251
5	1.080	79
6	1.033	283
7	1.038	263
8	1.048	250
9	0.498	20



**LEGEND**

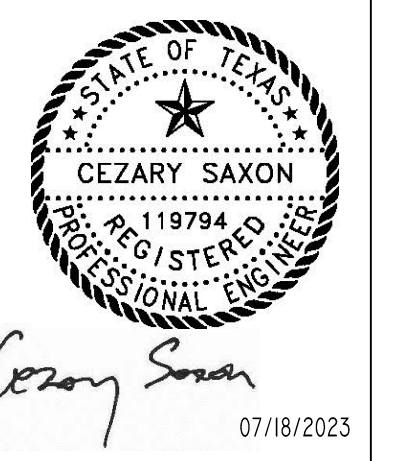
- PROPERTY BOUNDARY
- LOT LINES
- PROPOSED LOT LINES
- PROPOSED ROAD AND DRIVEWAY
- POWER POLE
- GUY WIRE
- P.U.E.
- PUBLIC UTILITY EASEMENT



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**SITE PLAN**  
**SANDSTONE RESIDENTIAL SUBDIVISION**  
**9223 SANDSTONE STREET, AUSTIN, TX 78737**



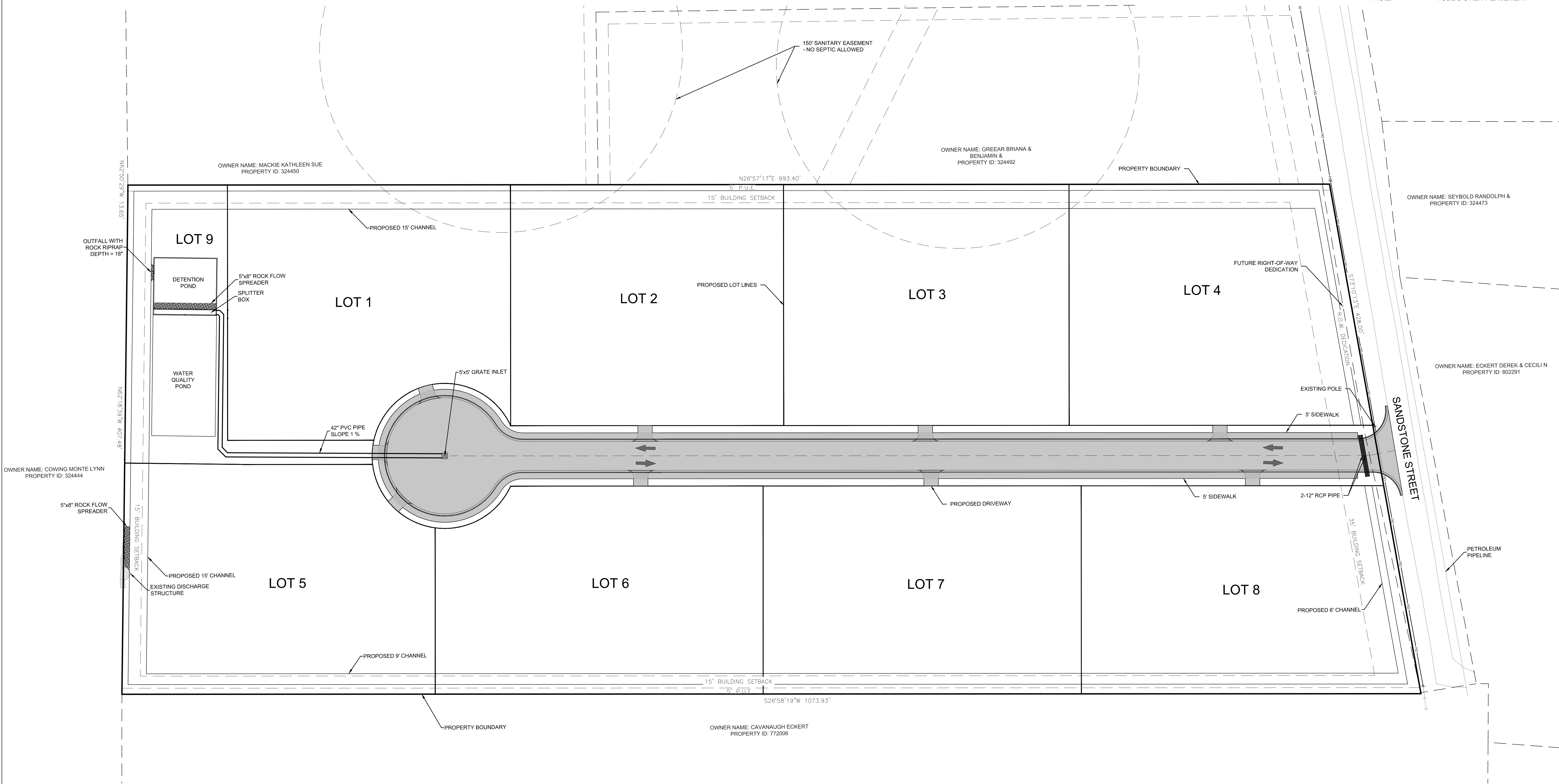
PLAN STATUS

DATE	DESCRIPTION
CS	CB/AO
DESIGN	TGL/CS
DRAWN	CHKD

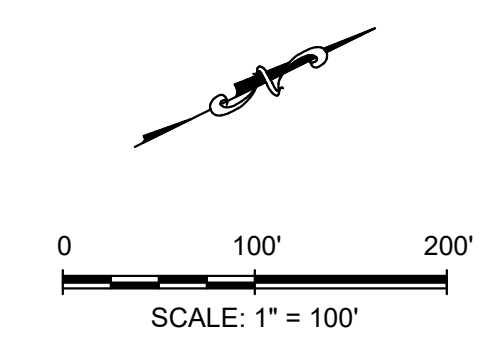
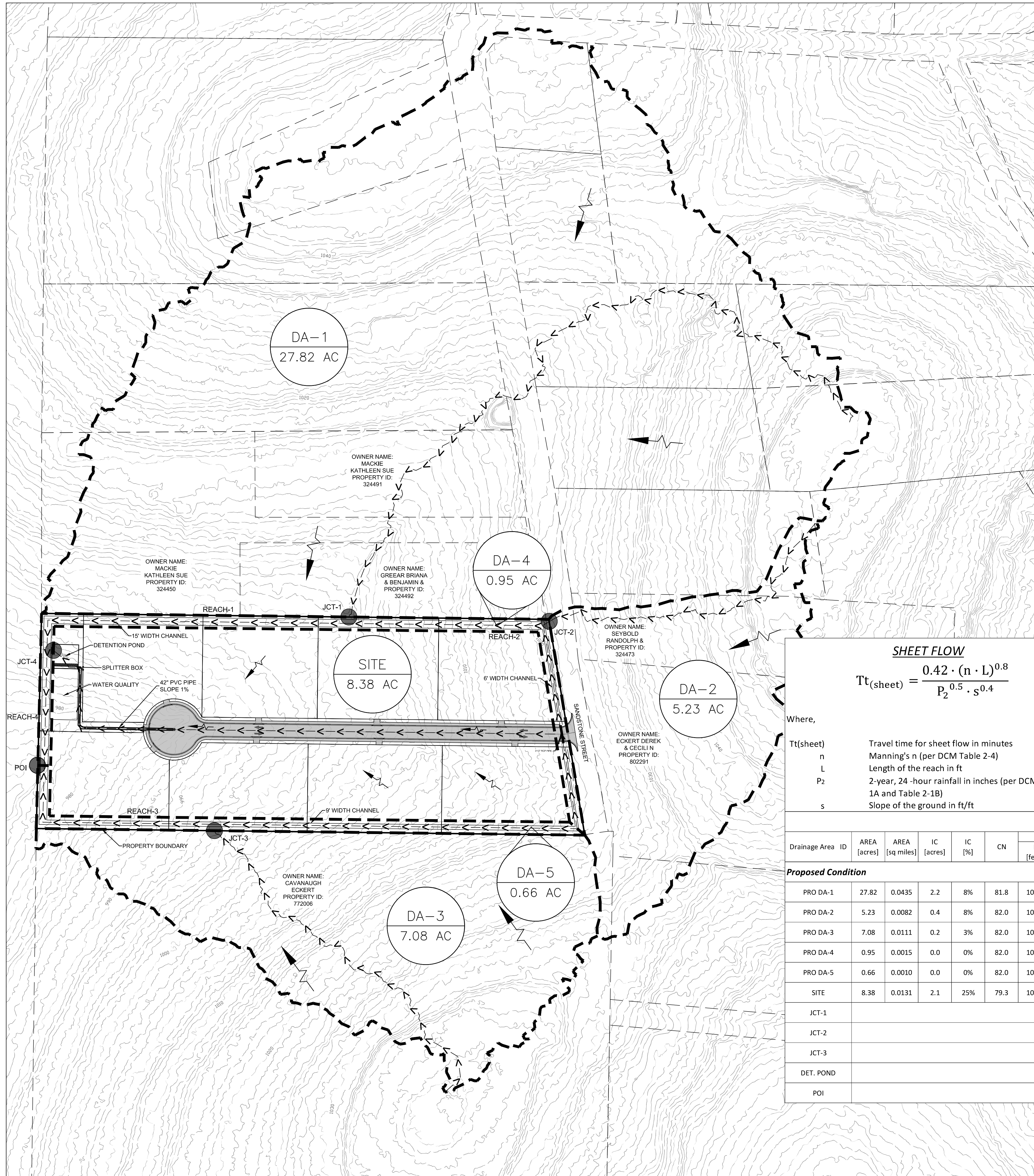
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**LEGEND**

- EXISTING CONTOUR
- PROPERTY BOUNDARY
- LOT LINES
- CHAIN LINK FENCE
- POWER POLE
- GUY WIRE
- EXISTING DRAINAGE BOUNDARY
- TIME OF CONCENTRATION
- DRAINAGE AREA NAME AREA (ACRE)
- POI
- FLOW ARROW



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CONSULTING GROUP

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Registration No.  
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**PROPOSED DRAINAGE AREA MAP**

SANDSTONE RESIDENTIAL SUBDIVISION  
9223 SANDSTONE STREET, AUSTIN, TX 78737

**SHEET FLOW**

$$Tt_{(sheet)} = \frac{0.42 \cdot (n \cdot L)^{0.8}}{P_2^{0.5} \cdot s^{0.4}}$$

Where,

Tt(sheet) Travel time for sheet flow in minutes  
n Manning's n (per DCM Table 2-4)  
L Length of the reach in ft  
P<sub>2</sub> 2-year, 24-hour rainfall in inches (per DCM Table 2-1A and Table 2-1B)  
s Slope of the ground in ft/ft

**SHALLOW CONCENTRATED FLOW**

(Unpaved)  $Tt_{(shallow)} = \frac{L}{60 \cdot 16.1345 \cdot s^{0.5}}$

(Paved)  $Tt_{(shallow)} = \frac{L}{60 \cdot 20.3282 \cdot s^{0.5}}$

Where,

Tt(shallow) Travel time for shallow concentrated flow in minutes  
L Length of the reach in ft  
s Slope of the ground in ft/ft

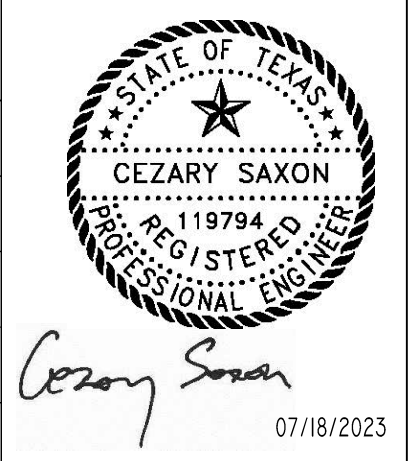
**CHANNEL OR STORM DRAIN FLOW**

$$Tt_{(channel)} = \sum \frac{L_i}{60 \cdot V_i}$$

Where

Tt(channel) Total flow travel time through the channel, min  
L<sub>i</sub> The i-th channel segment length in ft  
V<sub>i</sub> The average flow velocity within the ith channel segment, ft/s

Drainage Area ID	AREA [acres]	AREA [sq miles]	IC [acres]	IC [%]	CN	Sheet Flow				Shallow Conc. Flow				Open Channel Flow			Tc [min]	SCS UH LAG TIME [min]	Q100 (cfs)	Q25 (cfs)	Q10 (cfs)	Q2 (cfs)		
						L [feet]	n	s [ft/ft]	v [ft/s]	Tt [min]	L [feet]	n	s [ft/ft]	v [ft/s]	Tt [min]	L [feet]							v [ft/s]	Tt [min]
<b>Proposed Condition</b>																								
PRO DA-1	27.82	0.0435	2.2	8%	81.8	100.0	0.3	0.04	0.14	12.1	1000.0	0.3	0.05	3.6	4.7	606.0	5.0	2.0	18.8	11.3	239.3	173.9	133.4	73.0
PRO DA-2	5.23	0.0082	0.4	8%	82.0	100.0	0.3	0.03	0.12	13.9	594.4	0.3	0.06	3.9	2.5				16.4	9.8	48.1	35	26.9	14.7
PRO DA-3	7.08	0.0111	0.2	3%	82.0	100.0	0.3	0.03	0.13	13.3	744.6	0.3	0.06	3.9	3.1				16.4	9.9	64.5	46.8	35.8	19.4
PRO DA-4	0.95	0.0015	0.0	0%	82.0	100.0	0.016	0.01	0.92	1.8						1571.0	5.0	5.2	7.0	4.2	11.7	8.4	6.5	3.5
PRO DA-5	0.66	0.0010	0.0	0%	82.0	100.0	0.016	0.04	1.52	1.1						1070.7	5.0	3.6	4.7	2.8	8.5	6.1	4.7	2.6
SITE	8.38	0.0131	2.1	25%	79.3	100.0	0.02	0.04	1.31	1.3						994.1	5.0	3.3	4.6	2.8	111.3	80.9	62.4	35.1
JCT-1																					239.3	173.9	133.4	73.0
JCT-2																					48.1	35	26.9	14.7
JCT-3																					64.5	46.8	35.8	19.4
DET. POND																					107.0	77.1	58.8	32.3
POI																					404.4	294.6	226.5	124.6



DATE	DESCRIPTION
CS	CB/AO
DESIGN	DRAWN
	CHKD

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DATE: JULY 2023  
SHEET 6 OF 19





Cezary Saxon  
07/18/2023

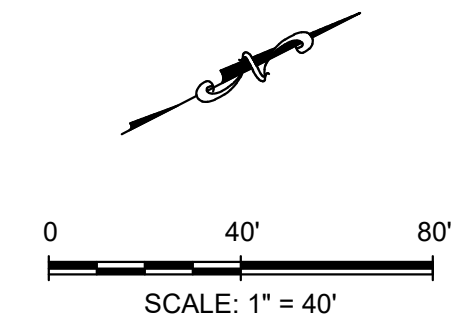
PLAN STATUS

DATE DESCRIPTION  
CS CB/AO TGL/CS  
DESIGN DRAWN CHK'D

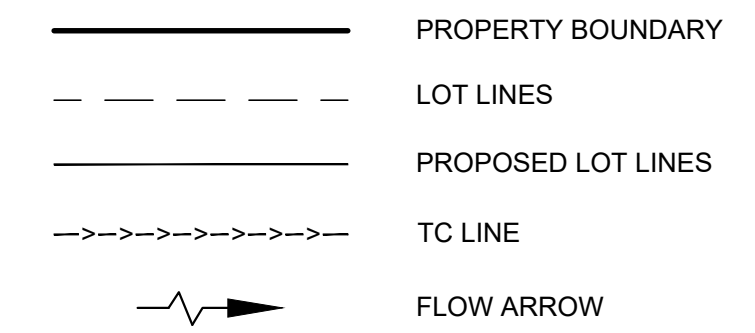
JOB No.

DATE: JULY 2023

SHEET 7 OF 19



**LEGEND**



**NOTE:**

- ALL DISTURBED AREAS SHALL BE REVEGETATED WITH NATIVE VEGETATION. THE NATIVE GRASS SEEDING AND PLANTING SHALL COMPLY WITH ITEM NO. 6095 - NATIVE SEEDING AND PLANTING FOR RESTORATION 1-4-16 OF CITY OF AUSTIN STANDARD SPECIFICATIONS.
- ALL EARTHEN EMBANKMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH COA STANDARD SPECIFICATIONS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE NO STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.
- EXPANSION JOINTS ON FREESTANDING WALLS SHALL HAVE WATERTIGHT SEALS AS NEEDED.

**MAINTENANCE NOTE:**

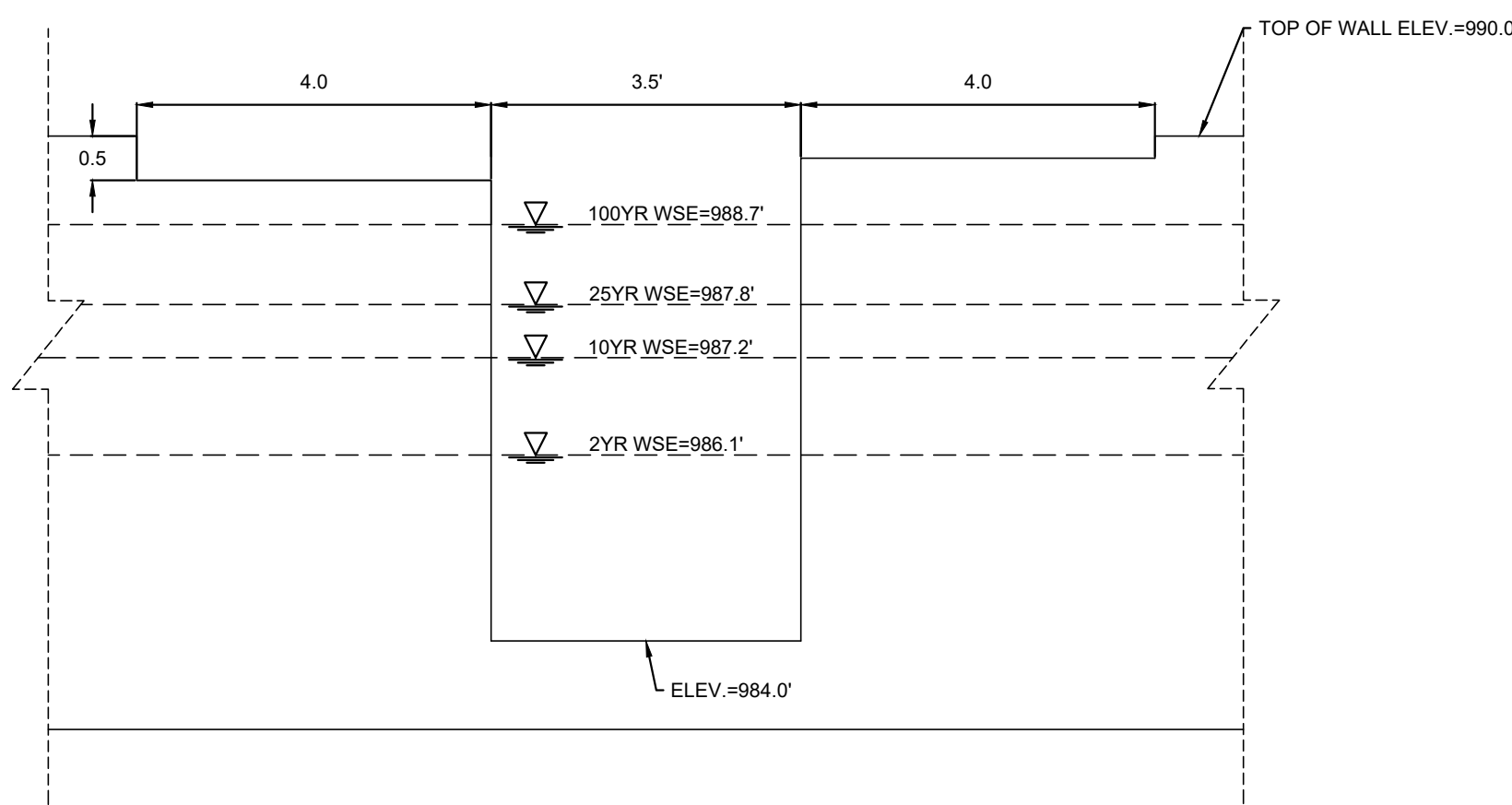
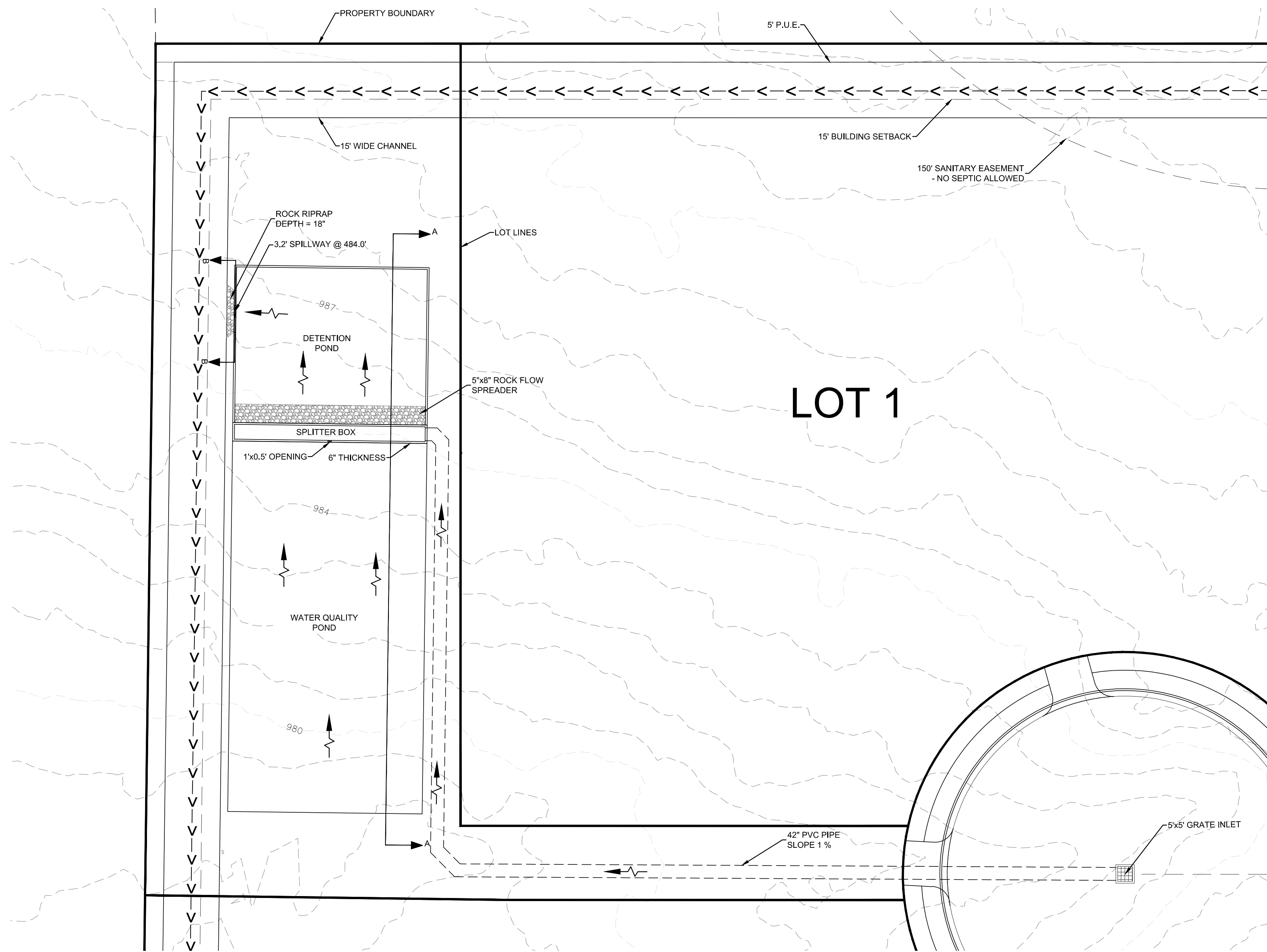
**A. MAINTENANCE RESPONSIBILITIES.**  
STORMWATER CONTROL MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER.

**B. MAINTENANCE REQUIREMENTS—DESIGN AND CONSTRUCTION.**

- THE DESIGN OF DRAINAGE FACILITIES (INCLUDING BUT NOT LIMITED TO HEADWALLS, OPEN CHANNELS, STORM SEWERS, AREA INLETS, AND DETENTION, RETENTION AND STORMWATER CONTROL MEASURES AND THEIR APPURTENANCES) SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 1.2.4.E OF THE DRAINAGE CRITERIA MANUAL. IN ADDITION, SCMS SHALL COMPLY WITH THE FOLLOWING CONSTRUCTION REQUIREMENTS:
- SEDIMENT REMOVED DURING CONSTRUCTION OF A DETENTION, OR WATER QUALITY FACILITIES MAY BE DISPOSED OF ON-SITE IF PROPERLY STABILIZED ACCORDING TO THE PRACTICES OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL CRITERIA FOUND IN SECTION 1.4.0 OF THIS MANUAL. AFTER THE CITY OF AUSTIN HAS ACCEPTED A STORMWATER FACILITY DISPOSAL OF SEDIMENT MUST BE AT AN APPROVED LANDFILL.
  - DURING CONSTRUCTION OF SCMS, TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE MAINTAINED.
  - IF RUNOFF IS TO ENTER THE SAND FILTRATION CHAMBER OF A WATER QUALITY CONTROL FACILITY PRIOR TO COMPLETION OF SITE CONSTRUCTION AND REVEGETATION, INSPECTION AND MAINTENANCE OF ALL TEMPORARY EROSION/SEDIMENTATION CONTROLS ARE REQUIRED, AS DESCRIBED IN THE ENVIRONMENTAL CRITERIA MANUAL SECTION 1.4.4, TO PREVENT HEAVY SEDIMENT LOADS CAUSED BY HOME CONSTRUCTION FROM CLOGGING THE FILTRATION MEDIA.
  - IN ALL CASES, TREES SHALL BE PRESERVED ACCORDING TO THE REQUIREMENTS OF SECTION 3 OF THE ENVIRONMENTAL CRITERIA MANUAL. THE ACCESS DRIVE AND STAGING AREA SHALL BE DESIGNED TO PRESERVE TREES 8" (INCHES) IN DIAMETER AND GREATER TO THE MAXIMUM EXTENT POSSIBLE. TREES 8" IN DIAMETER AND LARGER SHALL BE SURVEYED AND SHOWN FOR THE PROPOSED ACCESS EASEMENT AT THE TIME OF CONSTRUCTION PLAN PERMITTING.
  - FOR FILTRATION SYSTEMS THE DESIGN MEDIA DEPTH MUST BE VERIFIED, ACCOUNTING FOR CONSOLIDATION. IF INSUFFICIENT DEPTH IS PRESENT, ADDITIONAL MEDIA MUST BE ADDED AND PRE-SOAKED UNTIL THE DESIGN DEPTH IS ACHIEVED. PRE-SOAKING - APPLY 5--10 GALLONS OF WATER PER SQUARE FOOT OF MEDIA AREA WITHIN ONE HOUR.
  - RETAINING WALLS - RETAINING WALLS WITH SCMS REQUIRE WATER-TIGHTNESS. WATER-TIGHTNESS IN RETAINING WALLS IS ESSENTIAL TO THE FUNCTION OF THE STRUCTURE. WATERSTOPS SHALL BE PROVIDED DURING CONSTRUCTION OF EXPANSION JOINTS IN RETAINING WALLS PER STANDARD SPECIFICATION 414S, CONCRETE RETAINING WALLS.

**C. MAJOR MAINTENANCE REQUIREMENTS.**

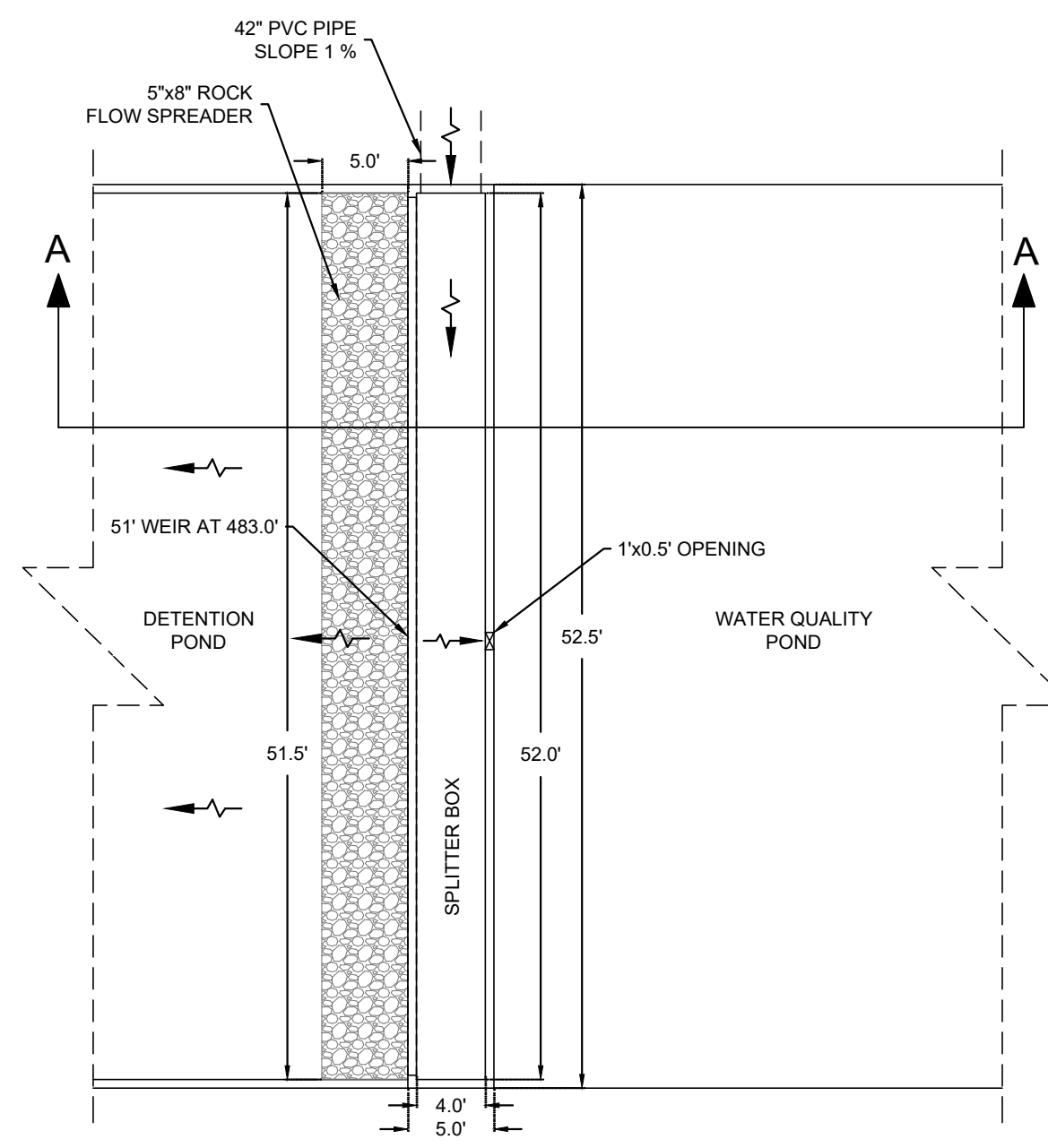
- THE FOLLOWING MAINTENANCE ACTIVITIES SHALL BE PERFORMED ON ALL SCMS, IN ADDITION TO THE REQUIREMENTS LISTED FOR THE INDIVIDUAL SCM TYPES, TO ENSURE PROPER FUNCTION:
  - ACCUMULATED PAPER, TRASH AND DEBRIS SHALL BE REMOVED EVERY SIX (6) MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.
  - STRUCTURAL INTEGRITY SHALL BE MAINTAINED AT ALL TIMES. BASINS AND ALL APPURTENANCES SHALL BE INSPECTED ANNUALLY, OR MORE FREQUENTLY IF SPECIFIED, AND REPAIRS SHALL BE MADE IF NECESSARY. WHEN MAINTENANCE OR REPAIRS ARE PERFORMED, THE SCM SHALL BE RESTORED TO THE ORIGINAL LINES AND GRADES.
  - CORRECTIVE MAINTENANCE SHALL OCCUR:
    - ANY TIME DRAWDOWN OF THE WATER QUALITY VOLUME DOES NOT OCCUR WITHIN NINETY-SIX (96) HOURS (I.E., NO STANDING WATER IS ALLOWED), UNLESS A GREATER MAXIMUM DRAWDOWN TIME IS SPECIFIED IN THE PLANS.
    - FOR DETENTION PONDS ONLY, ANY TIME DRAWDOWN DOES NOT OCCUR WITHIN TWENTY-FOUR (24) HOURS.
  - THE INLET AND OUTLET OF SCMS SHALL BE MAINTAINED UNIMPEDED IN ORDER TO CONVEY FLOW AT ALL TIMES. OBSERVED BLOCKAGES TO THE INLET AND OUTLET, DUE TO VEGETATION, SEDIMENT, DEBRIS, OR ANY OTHER CAUSE, SHALL BE REMOVED.
  - NO UNVEGETATED AREA SHALL EXCEED TEN (10) SQUARE FEET. THIS PERFORMANCE REQUIREMENT APPLIES TO THE ENTIRE POND INCLUDING THE POND BOTTOM, SIDE SLOPES, AND AREAS ADJACENT TO THE POND, AND IS INTENDED TO LIMIT EROSION.
  - THE MINIMUM VEGETATION HEIGHT SHALL BE FOUR (4) INCHES IN THE SCM AND ALL APPURTENANCES, INCLUDING THE TOE OF THE BERM OR WALL OUTSIDE THE SCM, WHERE APPLICABLE.
  - SEDIMENT BUILD-UP SHALL BE REMOVED:
    - WHEN THE ACCUMULATION EXCEEDS SIX (6) INCHES IN SPLITTER BOXES, WET WELLS AND BASINS.
    - WHEN SEDIMENT TRAPS ARE FULL.
    - WHEN SEDIMENT, OF ANY AMOUNT, CAUSES STANDING WATER CONDITIONS OR REDUCES BASIN STORAGE BY MORE THAN 10%.
    - WHEN SEDIMENT IS REMOVED, THE FOLLOWING REQUIREMENTS APPLY:
      - IRRIGATION SHALL BE PROVIDED, AS NEEDED, UNTIL VEGETATION IS ESTABLISHED (WELL ROOTED). SEE SECTION 1.6.3.D, IRRIGATION GUIDELINES.
      - THE DESIGN DEPTH OF THE FILTRATION MEDIA SHALL BE VERIFIED. SEE SECTION 1.6.3.B.5.
    - TILLING OF THE FILTRATION MEDIUM IS NOT ALLOWED.
  - SEDIMENTATION AND FILTRATION SCMS:
    - VEGETATION WITHIN THE SCM SHALL NOT EXCEED EIGHTEEN (18) INCHES IN HEIGHT AT ANY TIME, EXCEPT AS CALLED FOR IN THE DESIGN.
    - VEGETATION THAT IS MOWED OR CUT SHALL BE REMOVED FROM THE SCM.
  - DETENTION BASINS:
    - VEGETATION WITHIN THE BASIN SHALL NOT EXCEED EIGHTEEN (18) INCHES IN HEIGHT AT ANY TIME.



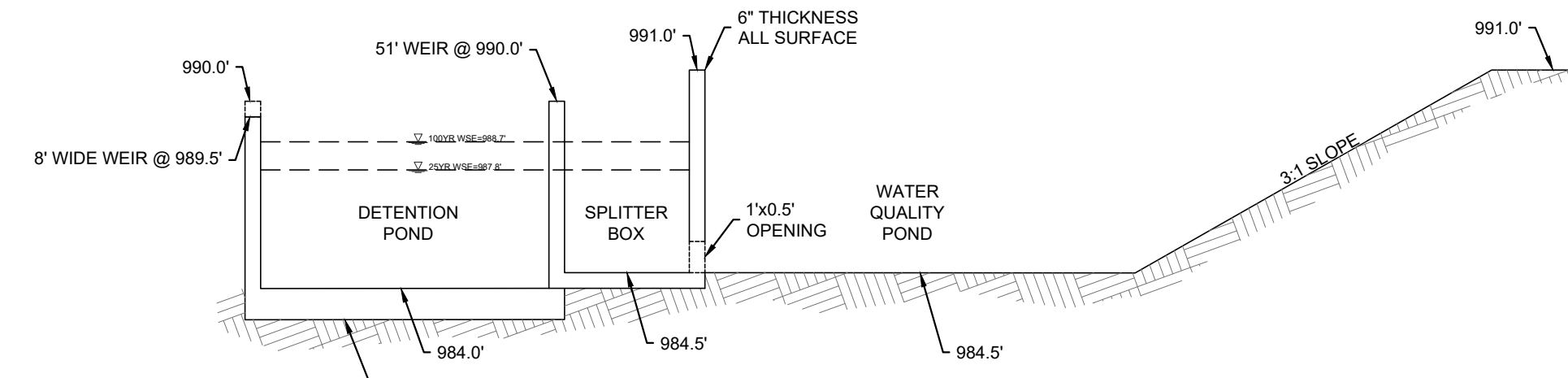
WEIR SECTION (DETENTION POND)  
SCALE: 1" = 2'

Detention Pond Outlets		
Spillway	3.2' @ Elev (Ft.)	984.00

Stage Storage Discharge Table (Detention Pond)					
Elev (Ft)	Area (Ac.)	Stage (ft msl)	Average Area (Sq.Ft.)	Incremental Storage (CF)	Cummulative Storage (CF)
984.00	0.0514	0.00	0.00	-	-
985.00	0.0514	2240.69	1120.35	1,120.35	1,120.35
986.00	0.0514	2240.69	2240.69	2,240.69	3,361.04
987.00	0.0514	2240.69	2240.69	2,240.69	5,601.73
988.00	0.0514	2240.69	2240.69	2,240.69	7,842.42
989.00	0.0514	2240.69	2240.69	2,240.69	10,083.12



SPLITTER BOX DETAIL



SECTION A-A  
SCALE: 1" = 5'

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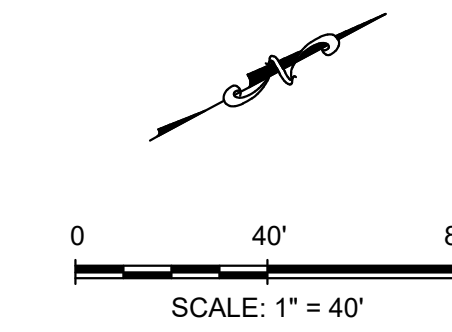
**EROSION CONTROL NOTES:**

1. THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING THE SIZE, TYPE, AND LOCATION OF ANY UNDERGROUND, SURFACE, AND AERIAL UTILITIES OR OTHER EXISTING FEATURES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM (1-800-344-8377) FOR EXISTING UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY THIS PROJECT'S CONSTRUCTION, IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR-DAMAGED UTILITIES, TO THE SATISFACTION OF THE UTILITY COMPANY, AT THE EXPENSE OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL CONTACT SAXON CONSULTING WITH ANY ITEMS ON THESE PLANS THAT NEED CLARIFICATION OR ANY FIELD CONDITIONS THAT ARE NOT CONSISTENT WITH THESE PLANS.
3. THE CONTRACTOR SHALL USE CARE AND NOT DAMAGE ANY EXISTING SIDEWALKS, DRIVES, STREETS, OR OTHER FEATURES, THAT ARE NOT PART OF THIS PROJECT. ANY CONTRACTOR DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
4. SEE GENERAL NOTES FOR EROSION AND SEDIMENTATION CONTROL NOTES.
5. SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AND TREE PROTECTION DETAILS.
6. ADEQUATE 6-INCH BARRIERS BETWEEN ALL VEHICULAR USE AREAS AND ADJACENT LANDSCAPE AREAS, SUCH AS CONCRETE CURBS OR WHEEL STOPS ARE REQUIRED AND MUST COMPLY WITH CITY OF AUSTIN (COA) ENVIRONMENTAL CRITERIA MANUAL (ECM) SECTION 2.4.7.
7. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREAS NEED TO BE STABILIZED BY REVEGETATION MATTING PER COA ECM 1.4.4.B.3, SECTION 5.1.
8. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER COA ECM 1.4.5.A, OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
9. CONTRACTOR TO CLEAN UP SPOILS THAT MIGRATE ONTO MONTOPOLIS DRIVE A MINIMUM OF ONCE DAILY PER COA ECM 1.4.4.D.4.
10. NON-HARD SURFACE AREAS OF DISTURBANCE TO BE REVEGETATED PER COA STANDARDS.
11. THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.
12. A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCES.
13. WHERE CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN THE CRITICAL ROOT ZONE OF TREES TO BE PRESERVED, THE DEMOLITION IS TO BE CONSTRUCTED WITH HAND TOOLS.
14. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREAS NEED TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING. [ECM 1.4.4.B.3, SECTION 5.1]
15. ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS. [LDC 25-5-183]
16. 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.
17. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY. [ECM 1.4.4.D.4]
18. FOR AREA WHERE FINAL GRADE EXCEEDS 2:1 SLOPE, REVEGETATION IS REQUIRED AND ADDITIONALLY, EITHER PROVIDE EROSION CONTROL MATTING ON THE SLOPES OR 18" MULCH SOCK AT THE TOP AND BASE OF THE SLOPES TO PREVENT RUNOFF AND SEDIMENT TRANSPORT UNTIL PERMANENT VEGETATIVE STABILIZATION HAS GROWN TO A MINIMUM 1.5 INCHES AND THERE ARE NO BARE SPOTS GREATER THAN 10 SQUARE FEET.
19. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.

**CONCRETE WASHOUT NOTES:**

1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
2. CONTRACTOR SHALL DETERMINE THE ACTUAL LAYOUT AND LOCATION IN THE FIELD. THE WASHOUT SHALL HAVE SUFFICIENT VOLUME TO CONTAIN A LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS, INCLUDING BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
3. WASHOUT AREA SHALL BE INSPECTED TOGETHER WITH OTHER EROSION AND SEDIMENT CONTROL MEASURES.
4. HARDENED CONCRETE WASTE SHALL BE REMOVED AND DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS AND GUIDELINES.

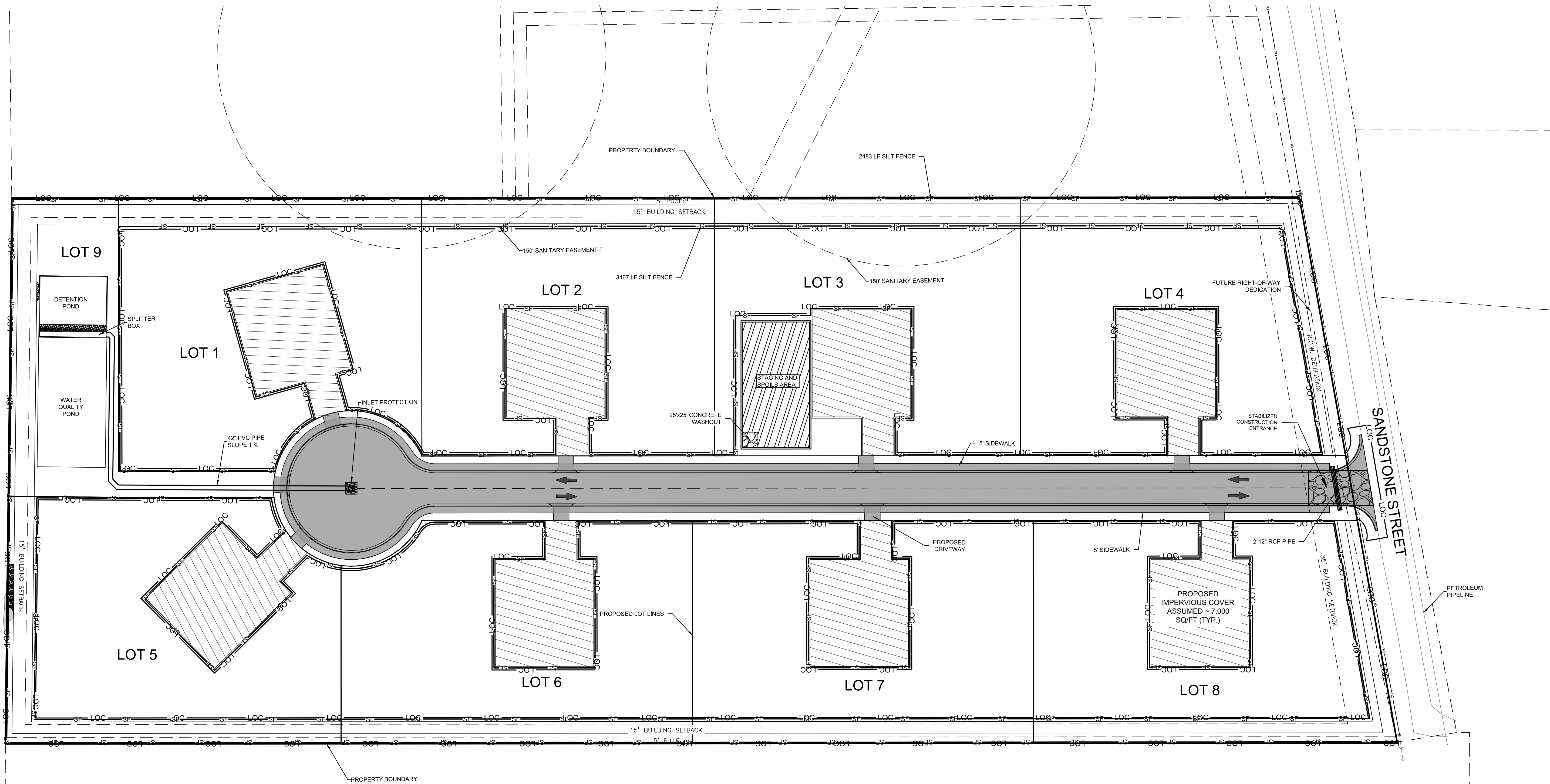
EROSION & SEDIMENTATION CONTROLS SUMMARY	
ITEM	QUANTITY
INLET PROTECTION	1
SILT FENCE	5950.0 LF
12" MULCH	-
TREE PROTECTION	-
STABILIZED CONSTRUCTION ENTRANCE	1 EA
LIMITS OF CONSTRUCTION	4.57 AC



**LEGEND**

- PROPERTY BOUNDARY
- LOT LINES
- PROPOSED LOT LINES
- PROPOSED ROAD AND DRIVEWAY
- POWER POLE
- GUY WIRE

- LIMIT OF CONSTRUCTION
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- STAGING AND SPOILS AREA
- CONCRETE WASHOUT AREA
- PROPOSED IMPERVIOUS COVER (ASSUMED ~ 7,000 SQ/FT PER LOT)



**SAXON LOOMIS CONSULTING GROUP**

TBPE Firm  
Registration No.  
F-19735

CEZARY SAXON, PE  
SAXON LOOMIS CONSULTING GROUP  
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AUSTIN, TEXAS 78704  
Phone: (512) 660-0500

**EROSION CONTROL PLAN**

SANDSTONE RESIDENTIAL SUBDIVISION  
9223 SANDSTONE STREET, AUSTIN, TX 78737

Cezary Saxon  
07/18/2023

PLAN STATUS		
DATE	DESIGNER	DESCRIPTION
CS	CB/AO	TGL/CS
DESIGN	DRAWN	CHKD
JOB NO.		
DATE: JULY 2023		
SHEET 9 OF 19		

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DIMENSIONAL CONTROL PLAN

SANDSTONE RESIDENTIAL SUBDIVISION  
9223 SANDSTONE STREET, AUSTIN, TX 78737



*Cezary Saxon*  
07/18/2023

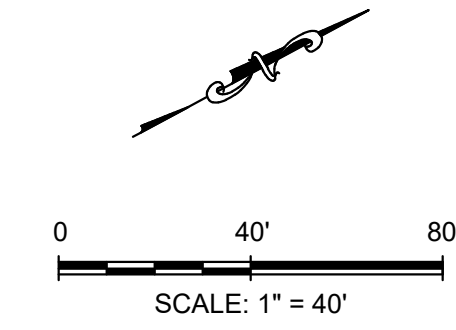
PLAN STATUS

DATE	DESCRIPTION
CS	CB/AO TGL/CS
DESIGN	DRAWN CHKD

JOB No.

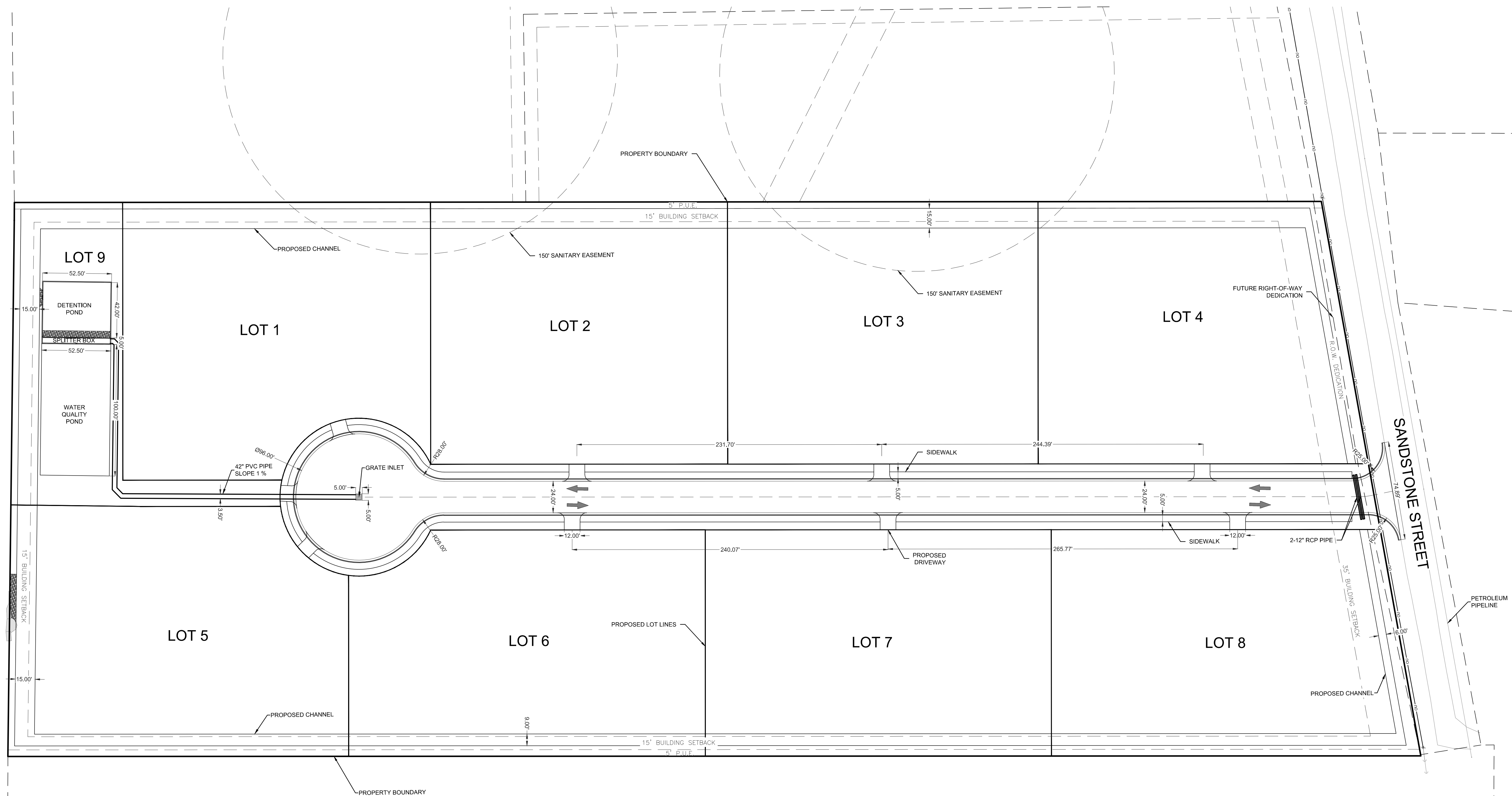
DATE: JULY 2023

SHEET 10 OF 19

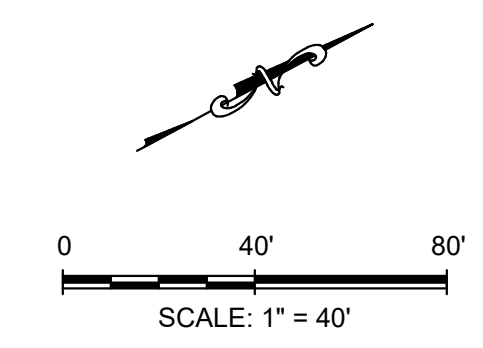


LEGEND

- PROPERTY BOUNDARY
- LOT LINES
- PROPOSED LOT LINES
- PROPOSED ROAD AND DRIVEWAY
- POWER POLE
- GUY WIRE



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**LEGEND**

- PROPERTY BOUNDARY
- LOT LINES
- PROPOSED LOT LINES
- PROPOSED ROAD AND DRIVEWAY
- POWER POLE
- GUY WIRE



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**WATER QUALITY IRRIGATION PLAN  
1 OF 3**

**SANDSTONE RESIDENTIAL SUBDIVISION  
9223 SANDSTONE STREET, AUSTIN, TX 78737**



*Cezary Saxon*  
07/18/2023

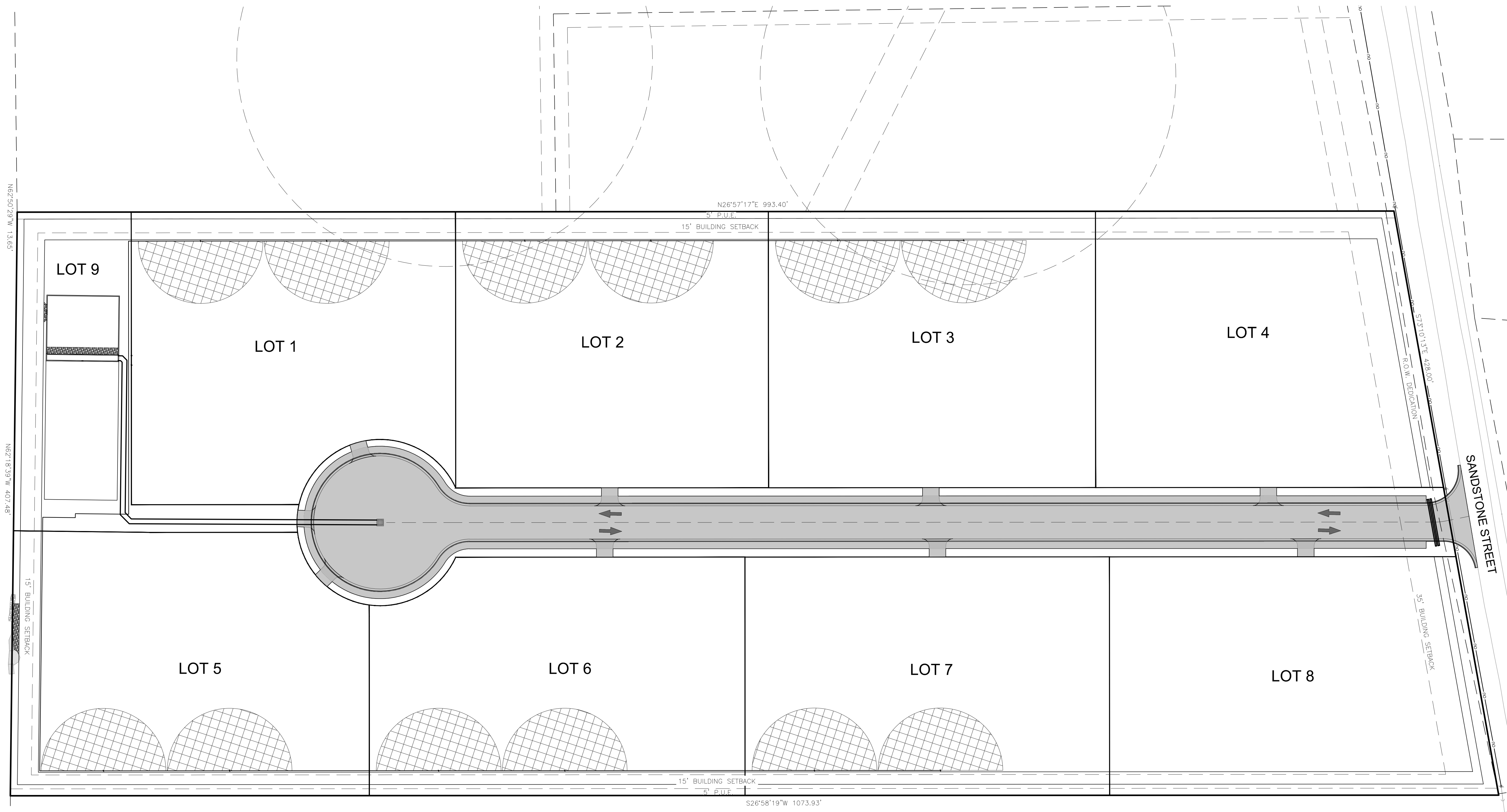
PLAN STATUS

DATE	DESCRIPTION
CS	CB/AO TGL/CS
DESIGN	DRAWN CHKD

JOB No.  
DATE : JULY 2023

**SHEET 13 OF 19**

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**APPENDIX R-5**

**RETENTION/IRRIGATION POND CALCULATIONS FOR DEVELOPMENT PERMITS**

**DRAINAGE AREA DATA**

Drainage Area to Control (DA)	8,380 ac	365017 sf
Drainage Area Impervious Cover	1,676 ac	73003 sf
Drainage Area Impervious Cover	20 %	
Capture Depth (CD)	0.5 inch	

**WATER QUALITY CONTROL CALCULATIONS**

25-Yr Peak Flow Rate to Control (Q25)	80.9 cfs
100-Yr Peak Flow Rate to Control (Q100)	111.3 cfs

	<b>Required</b>	<b>Provided</b>
Water Quality Volume (WQV = CD*DA*3630)	15209 cf	
Retention Pond Volume	15209 cf	17622 cf

Water Quality Elevation	991.00 ft	991.00 ft
Elevation of Splitter/Overflow Weir (min. WQ elevation)	990.00 ft	990.00 ft

Length of Splitter Weir		50 ft
Required Head to Pass Q100	max. 1 ft	0.76 ft
Pond Freeboard Provided to Pass Q100	min. 0.25 ft	0.24 ft

**IRRIGATION AREA CALCULATIONS**

Soil permeability	minimum	0.03 inch/hou	0.20 inch/hou
Pond drawdown time	maximum	72 hour	31.0 hour
Irrigation rate			0.18 inch/hour
Irrigation area		34072 sf	38170 sf

**Single zone irrigation system**

**RETENTION POND**

Stage ft	Area sf	Storage cf	Cumulative storage cf
984.00	1056	0	0
985.00	1575	1310	1310
986.00	2166	1865	3174
987.00	2829	2492	5666
988.00	3564	3191	8856
989.00	4371	3962	12818
990.00	<b>5250</b>	<b>4805</b>	<b>17622</b>
991.00	6201	5720	23342

**PERCOLATION TEST**

Top elevation	ground level
Hole depth	12 inch
Hole diameter	18 inch
Elevation at the beginning of the test	12.00 inch
Elevation at the end of the test	9 inch
Time	10 min
Test results	0.30 inch/min
Test results	18.00 inch/hour

**SPRINKLER PERFORMANCE DATA**

Flow	5.9 GPM
Number	12 -
Radius	45 ft
Nozzle	3
Pressure	30 PSI

**PIPE FRICTION HEAD DETERMINATION**

**Pipe Friction Head Determination, Supply Pipe West**

Pipe length Feet	Pipe diameter Inch	Flow rate GPM	Head loss Feet
287	2	35.4	7.15
91	2	29.5	1.62
143	2	23.6	1.68
91	2	17.7	0.63
135	2	11.8	0.44
91	2	5.9	0.08

Friction loss in supply pipe: 11.59

**Pipe Friction Head Determination, Supply Pipe East**

Pipe length Feet	Pipe diameter Inch	Flow rate GPM	Head loss Feet
255	2	35.4	6.35
91	2	29.5	1.62
151	2	23.6	1.77
91	2	17.7	0.63
180	2	11.8	0.59
91	2	5.9	0.08

Friction loss in supply pipe: 11.04

Pressure loss on pipeline	22.63 ft
20% for joints, elbows, tees, ect.	4.53 ft
Pressure on sprinkler head	69.30 ft
Elevation change	25.00 ft
Total system head	121.46 ft

**PUMP**

Design flow	70.80 GPM
Total dynamic head	121.46 ft

Pumps must be selected to operate within 20% of their best operating efficiency. Equivalent pump may be used with designer and inspector approval.

**FILT STATION OPERATION LEVELS**

Lift station bottom	980.00
Pump "OFF"	981.50
Inlet from water quality pond	982.00
High water level alarm	990.00

**PIPE FROM POND TO LIFT STATION CALCULATIONS**

Pipe diameter	6.00 inch
Pipe slope	1.00 %
Pipe roughness	0.01 -
Pipe discharge	0.73 cfs
Pipe discharge	327 gpm

**PUMP NOTES**

- The retention basin must be emptied within 72-hours after a rain event ends. Emptying of the retention basin must not begin sooner than 12 hours after the end of the rainfall event. The flow rate of the pumps (gpm) shall be designed with either a 30 hour or 60 hour drawdown time (30 hrs for single zone irrigation systems and 60 hrs for multi-zone).
- Plug valves must be located outside the wet well on the discharge side of each pump to isolate the pumps for maintenance and for throttling if necessary. Butterfly valves and gate valves must not be used.
- Check valve(s) must be provided to prevent backflow from the irrigation system back into the pump well.
- The pumps must alternate on start up. The control logic must allow the system to operate normally with only one pump in service.
- A manual control must be provided so both pumps can be turned on if necessary.
- A high/low-pressure pump shut off system (to detect line clogging or breaking) shall be installed in the pump discharge piping. As an alternative, an amp draw (overloads) or other equivalent monitoring device may be used.
- Float controls or submersible transducers must be provided to control operation of the pumps. Three control settings must be used: (1) one for starting the pump, (2) one for shutting off the pump at the normal low water level, and (3) one for back up shut off of the pump in case the first shut-off fails.
- An alarm system shall be provided consisting of a red light located at a height of at least five feet above the ground level at the wet well. The alarm shall activate when:
  - The water level is below the primary shutoff float and the pump has not turned off.
  - The high/low-pressure pump shut off switch has been activated.
  - Any other pump failures or system shut down indicated by control panel. The alarm must be vandal proof and weather resistant. If the system is to be privately maintained, a sign must be placed at the wet well clearly displaying the name and phone number of a responsible party that may be contacted if the alarm is activated.
  - A green "pump run light" shall be provided which is activated any time a pump is running. The green light should be located directly adjacent to the red alarm light.

**SPRINKLERS**

All sprinkler heads must have full or partial circle rotor pop-up heads and must be capable of delivering the required rate of irrigation over the designated area in a uniform manner. Sprinkler heads should have purple caps to indicate non-potable water. Irrigation must not occur beyond the limits of the designated irrigation area. Partial circle sprinkler heads must be used as necessary to prevent irrigation beyond the designated limits. Sprinkler heads must be capable of passing solids that may pass through the intake. Sprinkler heads must be flush mounted and encased within a 2 feet x 2 feet concrete housing capable of protecting the head from mowing and service equipment.

**VEGETATION**

The irrigation area must have native vegetation or be restored or re-established with native vegetation, unless approved by the engineer. These areas must not receive any fertilizers, pesticides, or herbicides. If landscaped areas are used for irrigation, fertilizers, pesticides, or herbicides must not be applied to those areas and this limitation must be outlined in the Integrated Pest Management (IPM) plan.

**SOIL REPLACEMENT**

- The irrigation area must be replaced for soil contain a minimum of 12 inches of soil with the minimum 0.03 inch per hour permeability rate.
- Replaced soil shall meet the requirements of Standard Specification 601S, Salvaging and Placing Topsoil
- The condition, type, structure, and quality of the soil shall be conducive to infiltration and to plant growth

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**PROPLUS**

Packed with features that ensure reliability, saving the installer time and money on every job.

- Revolutionary patented Easy Arc™ (patented) arc rate for accurate irrigation in all climates
- 3/4" line - Replaces standard 1/2" line
- 2W Adjustable or Continuous Rotation - Provides a full range adjustment from 40° to 180° continuous rotation
- Precision Arc-Bal Degree Markings - Clearly indicates the current watering pattern and simplifies on-site adjustment
- Arc Safety Catch - Prevents accidental water damage due to 180° rotation
- Flow Pressure Resistant Rotating Mechanism - Assures continuous rotation and return (over 220 year history)
- Matching Rod - Allows for easy adjustment of your self-starting problem with a simple turn of the head
- Rubber Cover - Stays out of dirt and increases product durability
- Wide Selection of Nozzles - Including standard and low angle, provides flexibility in system design
- Optional Check Valve - Prevents low head drainage

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**SPRINKLER**

**Easy Arc Setting**

Adjust Selection 40° to Continuous 180°  
Adjust First Left Start

**Specifications**

- Arc Adjustment Range: 40° to Continuous 180°
- Flow Range: 3 - 15.5 GPM (1.9 - 57.4 LPM)
- Pressure Rating: 30 - 110 PSI (2.1 - 7.6 bar)
- Precipitation Rate: 0.2 - 1.0 inch (5.1 - 25.4 mm/hr) (depending on spacing and nozzle type)
- Rotating Height: 7.0" (178 mm)
- Water Height: 10" (254 mm)
- Recommended Spacing: 30' - 44' (9.1 - 13.4 m)
- Radius: 22' - 37' (6.7 - 11.3 m)
- Nozzle: Triangular 3"
- Landscape Height: 12"
- Standard and Low Angle, nozzle included

**Models**

1800 PROPLUS  
1800 PROPLUS with low angle nozzle  
1800 PROPLUS with low angle nozzle  
1800 PROPLUS with low angle nozzle

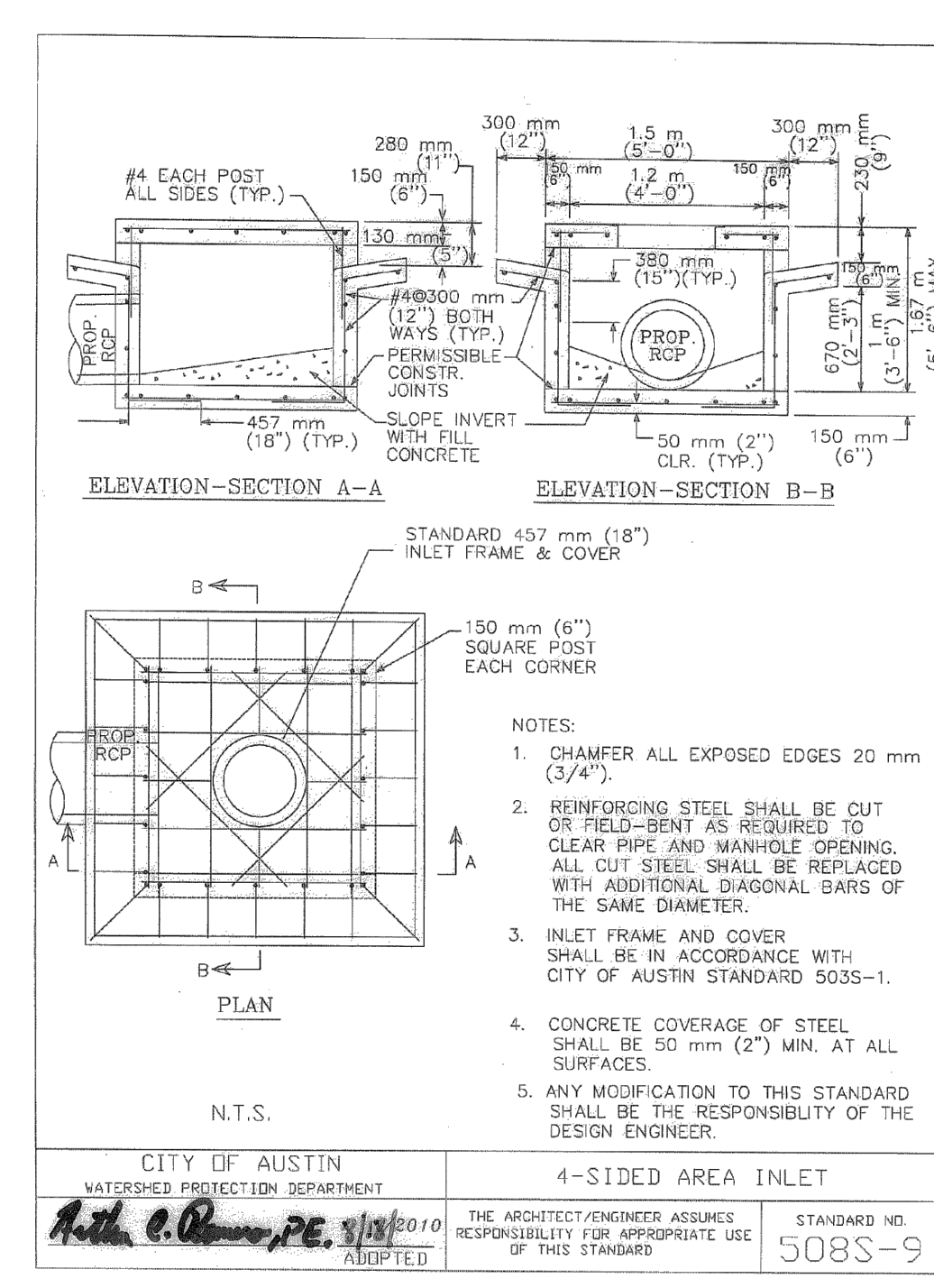
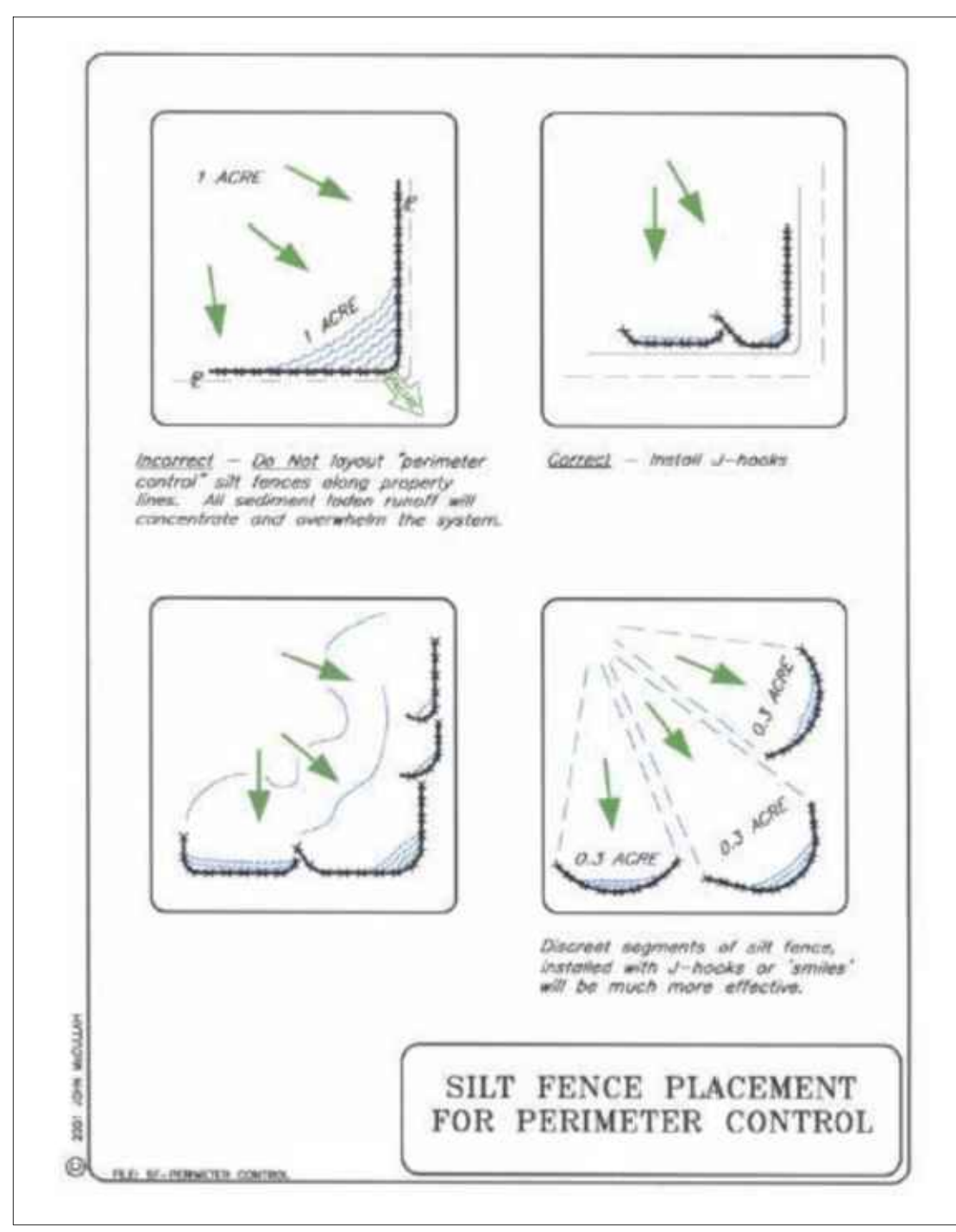
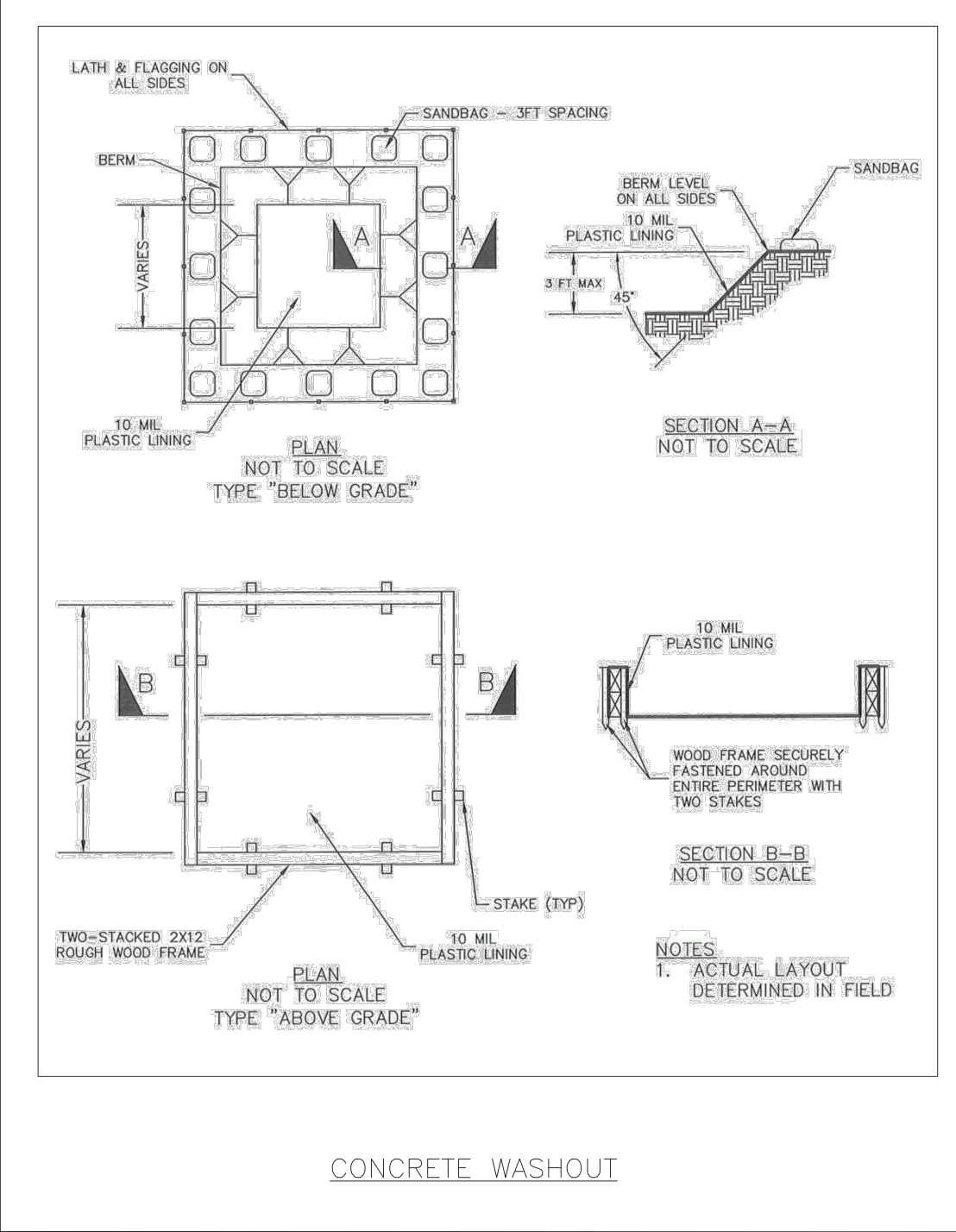
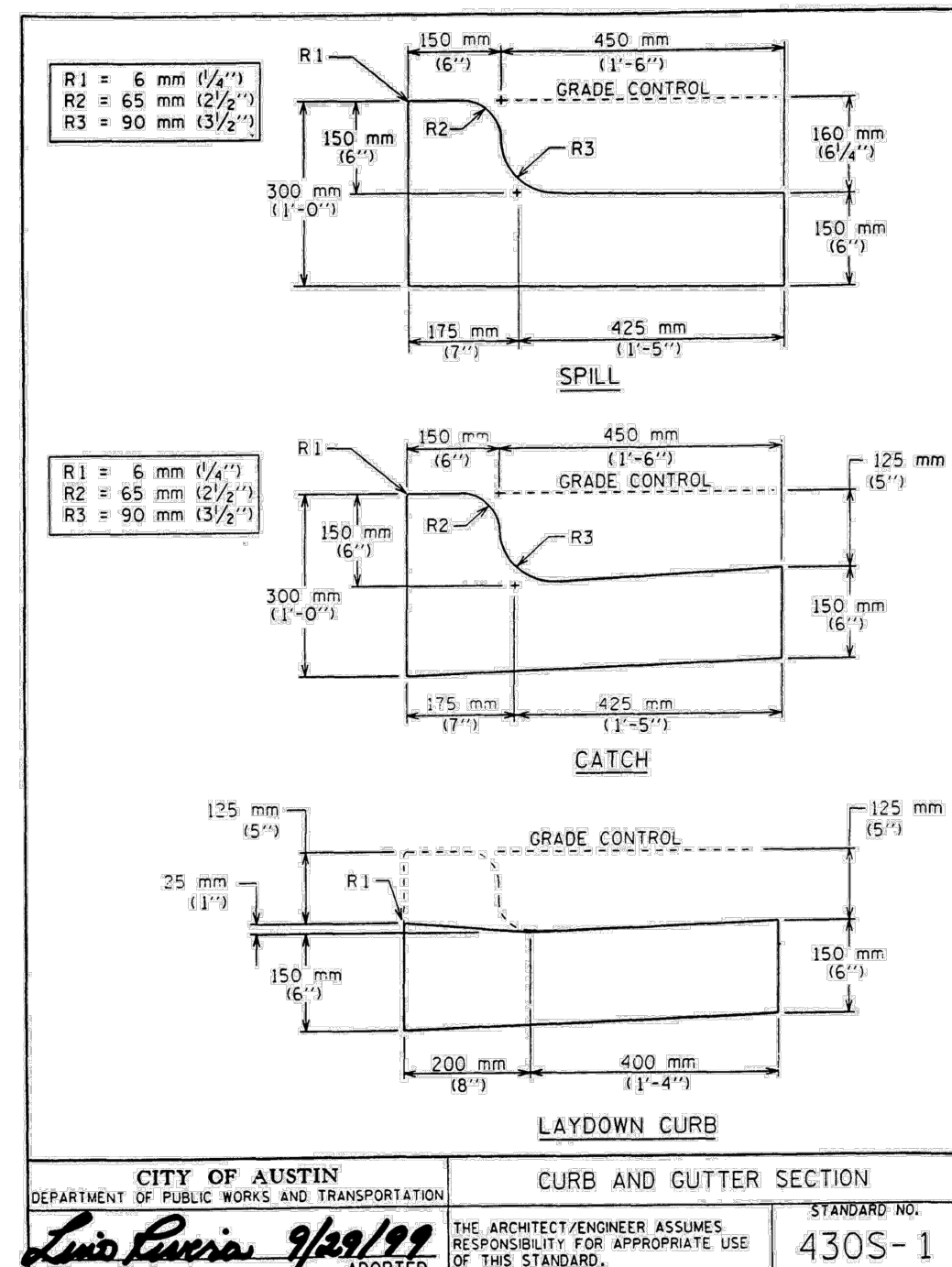
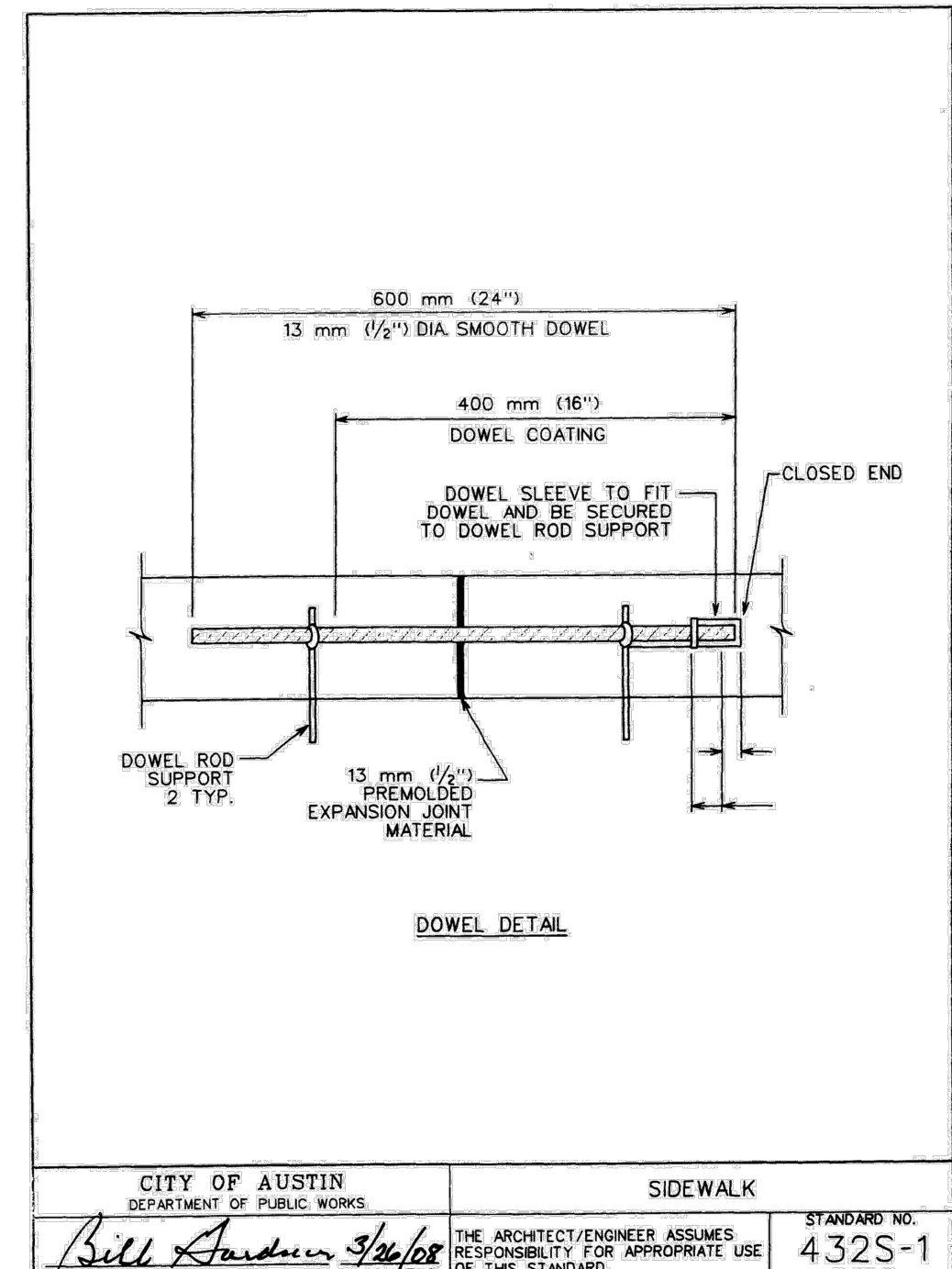
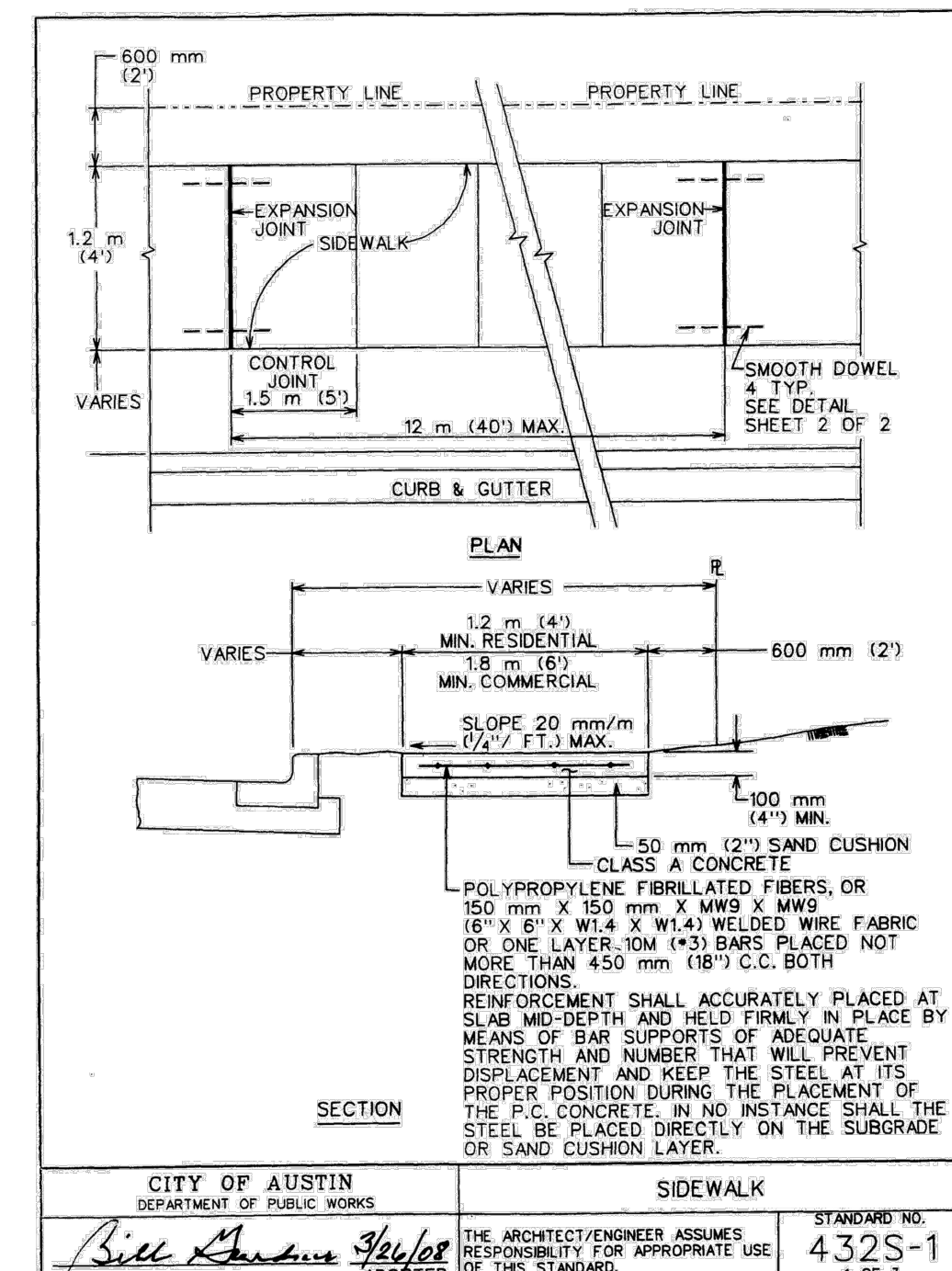
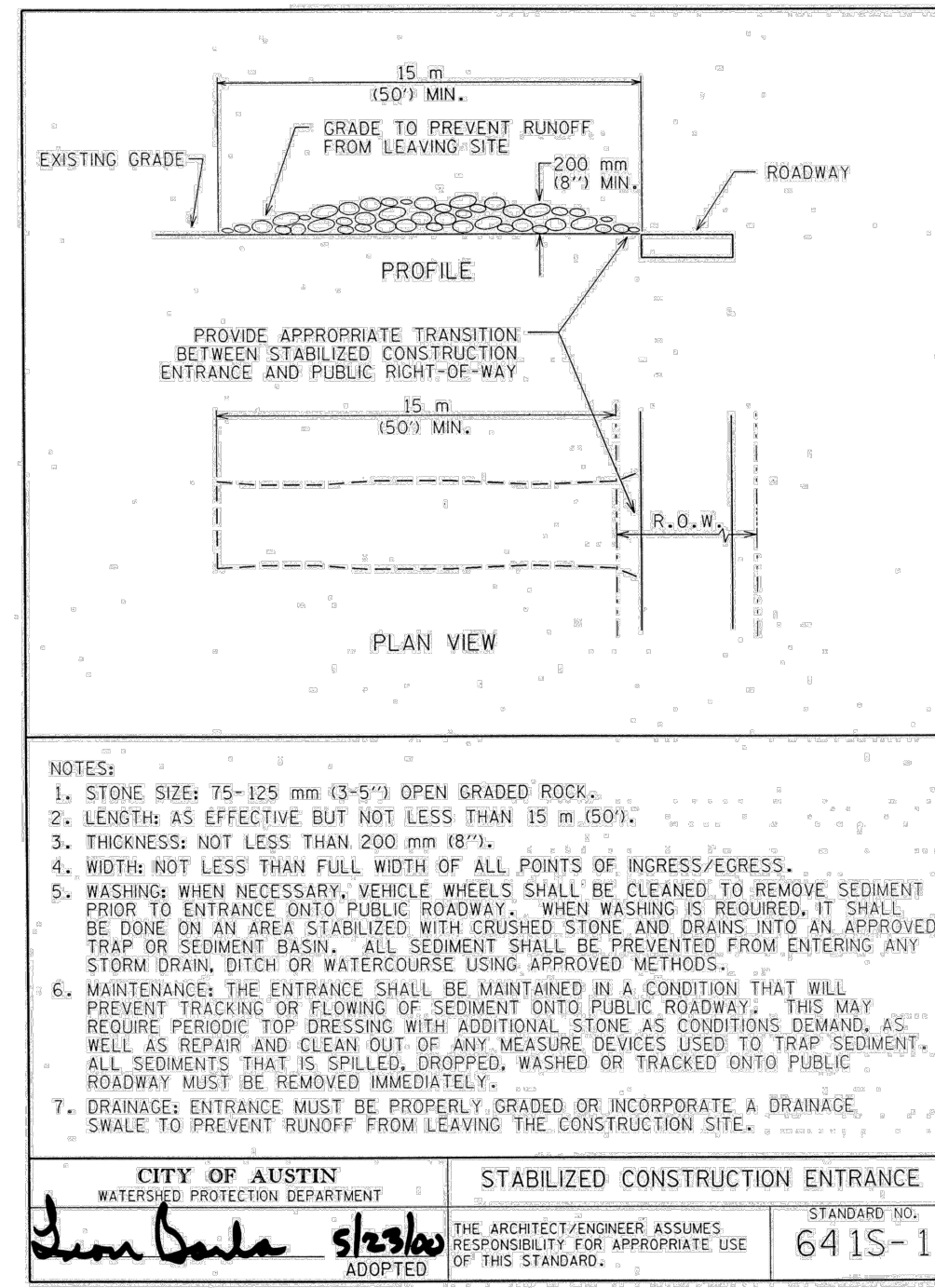
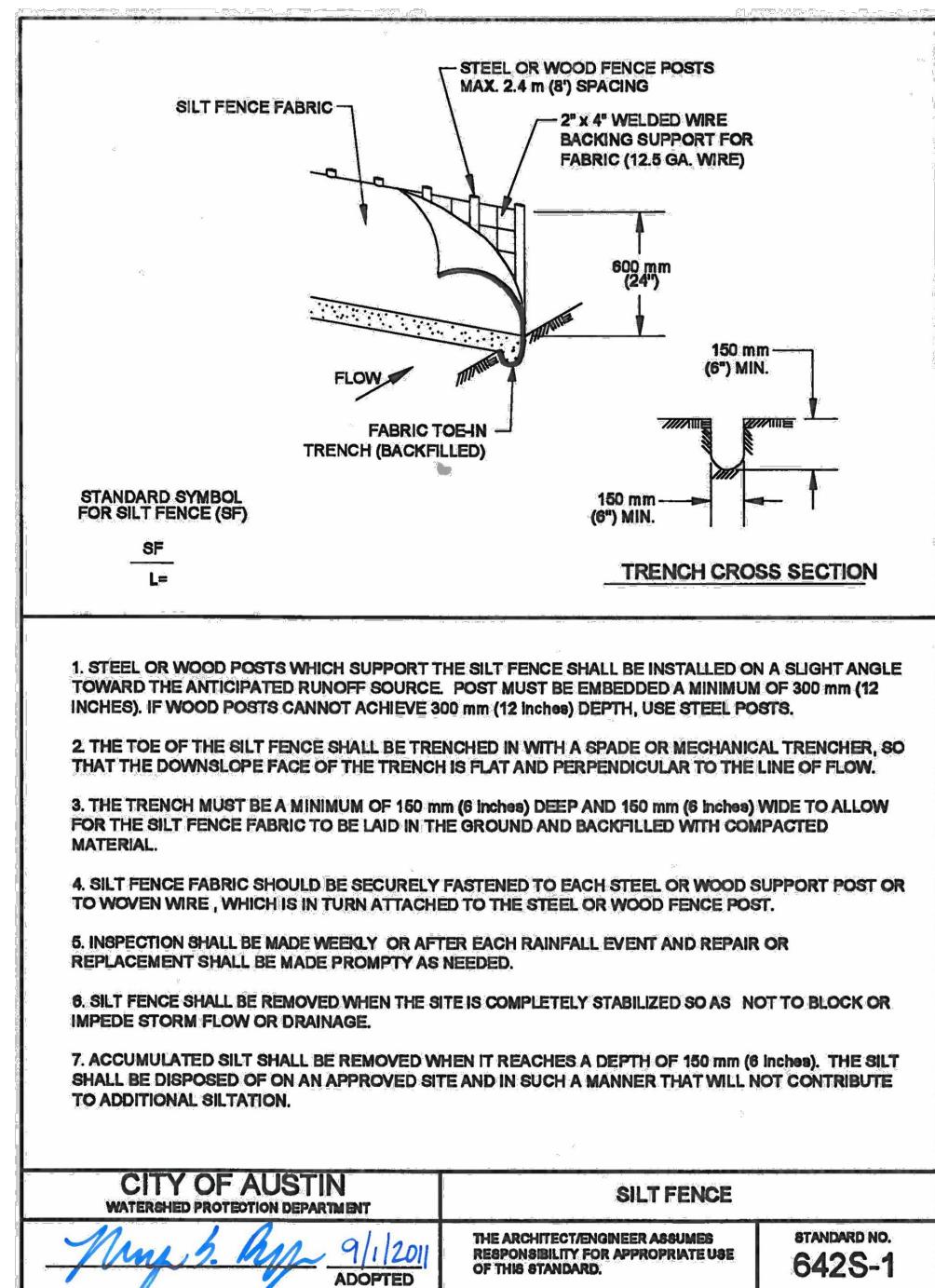
**How to Specify**

Model Number  
1800

**Performance Data**

NOZZLE	PRECIPITATION RATE (in/hr)	PRECIPITATION RATE (mm/hr)	FLOW RATE (GPM)	FLOW RATE (LPM)	SPACING (ft)	SPACING (m)	WATER HEIGHT (ft)	WATER HEIGHT (m)
3"	0.2	5.1	1.9	7.1	11.3	3.5	7.0	2.1
3"	0.5	12.7	4.8	18.2	5.7	1.7	3.5	1.1
3"	1.0	25.4	9.6	36.4	2.8	0.9	1.8	0.5
3"	1.5	38.1	14.4	54.6	1.9	0.6	1.2	0.4
3"	2.0	50.8	19.2	72.8	1.4	0.4	0.9	0.3
3"	2.5	63.5	24.0	91.0	1.1	0.3	0.7	0.2
3"	3.0	76.2	28.8	109.2	0.9	0.3	0.6	0.2
3"	3.5	88.9	33.6	127.4	0.8	0.2	0.5	0.1
3"	4.0	101.6	38.4	145.6	0.7	0.2	0.4	0.1
3"	4.5	114.3	43.2	163.8	0.6	0.2	0.3	0.1
3"	5.0	127.0	48.0	182.0	0.5	0.1	0.2	0.0
3"	5.5	139.7	52.8	200.2	0.4	0.1	0.1	0.0
3"	6.0	152.4	57.6	218.4	0.3	0.1	0.1	0.0
3"	6.5	165.1	62.4	236.6	0.2	0.0	0.0	0.0
3"	7.0	177.8	67.2	254.8	0.1	0.0	0.0	0.0
3"	7.5	190.5	72.0	273.0	0.1	0.0	0.0	0.0
3"	8.0	203.2	76.8	291.2	0.0	0.0	0.0	0.0
3"	8.5	215.9	81.6	309.4	0.0	0.0	0.0	0.0
3"	9.0	228.6	86.4	327.6	0.0	0.0	0.0	0.0
3"	9.5	241.3	91.2	345.8	0.0	0.0	0.0	0.0
3"	10.0	254.0	96.0	364.0	0.0	0.0	0.0	0.0
3"	10.5	266.7	100.8	382.2	0.0	0.0	0.0	0.0
3"	11.0	279.4	105.6	400.4	0.0	0.0	0.0	0.0
3"	11.5	292.1	110.4	418.6	0.0	0.0	0.0	0.0
3"	12.0	304.8	115.2	436.8	0.0	0.0	0.0	0.0
3"	12.5	317.5	120.0	455.0	0.0	0.0	0.0	0.0
3"	13.0	330.2	124.8	473.2	0.0	0.0	0.0	0.0
3"	13.5	342.9	129.6	491.4	0.0	0.0	0.0	0.0
3"	14.0	355.6	134.4	509.6	0.0	0.0	0.0	0.0
3"	14.5	368.3	139.2	527.8	0.0	0.0	0.0	0.0
3"	15.0	381.0	144.0	546.0	0.0	0.0	0.0	0.0
3"	15.5	393.7	148.8	564.2	0.0	0.0	0.0	0.0
3"	16.0	406.4	153.6	582.4	0.0	0.0	0.0	0.0
3"	16.5	419.1	158.4	600.6	0.0	0.0	0.0	0.0
3"	17.0	431.8	163.2	618.8	0.0	0.0	0.0	0.0
3"	17.5	444.5	168.0	637.0	0.0	0.0	0.0	0.0
3"	18.0	457.2	172.8	655.2	0.0	0.0	0.0	0.0
3"	18.5	469.9	177.6	673.4	0.0	0.0	0.0	0.0
3"	19.0	482.6	182.4	691.6	0.0	0.0	0.0	0.0
3"	19.5	495.3	187.2	709.8	0.0	0.0	0.0	0.0
3"	20.0	508.0	192.0	728.0	0.0	0.0	0.0	0.0
3"	20.5	520.7	196.8	746.2	0.0	0.0	0.0	0.0
3"	21.0	533.4	201.6	764.4	0.0	0.0	0.0	0.0
3"	21.5	546.1	206.4	782.6	0.0	0.0	0.0	0.0
3"	22.0	558.8	211.2	800.8	0.0	0.0	0.0	0.0
3"	22.5	571.5	216.0	819.0	0.0	0.0	0.0	0.0
3"	23.0	584.2	220.8	837.2	0.0	0.0	0.0	0.0
3"	23.5	596.9	225.6	855.4	0.0	0.0	0.0	0.0
3"	24.0	609.6	230.4	873.6	0.0	0.0	0.0	0.0
3"	24.5	622.3	235.2	891.8	0.0	0.0	0.0	0.0
3"	25.0	635.0	240.0	910.0	0.0	0.0	0.0	0.0
3"	25.5	647.7	244.8	928.2	0.0	0.0	0.0	0.0
3"	26.0	660.4	249.6	946.4	0.0	0.0	0.0	0.0
3"	26.5	673.1	254.4	964.6	0.0	0.0	0.0	0.0





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CONSTRUCTION DETAILS 1 OF 2

SANDSTONE RESIDENTIAL SUBDIVISION  
9223 SANDSTONE STREET, AUSTIN, TX 78737



*Cezary Saxon*  
07/16/2023

PLAN STATUS

DATE DESCRIPTION  
CS CB/AO TGL/CS  
DESIGN DRAWN CHK'D

JOB No.  
DATE: JULY 2023

SHEET 18 OF 19

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