

# Contributing Zone Plan

For

**Liberty Hill Meetinghouse  
115 Bronco Blvd.  
Liberty Hill TX, 78642**



**Prepared By  
Hill Country Civil, LLC  
391 Landa St. Ste. 1204  
New Braunfels, TX 78130  
Ross Corder, PE**



**Hill Country Civil**

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## **Application Cover Page**

# 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: Liberty Hill Meetinghouse</b>               |             |     |                                 |     | <b>2. Regulated Entity No.:</b> |                              |           |                         |                            |
| <b>3. Customer Name: The Church Of Jesus Christ Of Latter-Day Saints</b> |             |     |                                 |     | <b>4. Customer No.:</b>         |                              |           |                         |                            |
| <b>5. Project Type:</b><br>(Please circle/check one)                     | New         |     | Modification                    |     | Extension                       |                              | Exception |                         |                            |
| <b>6. Plan Type:</b><br>(Please circle/check one)                        | WPAP        | CZP | SCS                             | UST | AST                             | EXP                          | EXT       | Technical Clarification | Optional Enhanced Measures |
| <b>7. Land Use:</b><br>(Please circle/check one)                         | Residential |     | Non-residential                 |     |                                 | <b>8. Site (acres):</b>      |           | 6.43                    |                            |
| <b>9. Application Fee:</b>   | \$5,000     |     | <b>10. Permanent BMP(s):</b>    |     |                                 | Batch Detention Pond         |           |                         |                            |
| <b>11. SCS (Linear Ft.):</b>   | N/A         |     | <b>12. AST/UST (No. Tanks):</b> |     |                                 | N/A                          |           |                         |                            |
| <b>13. County:</b>   | Williamson  |     | <b>14. Watershed:</b>           |     |                                 | South Fork San Gabriel River |           |                         |                            |



# Application Distribution

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

[http://www.tceq.texas.gov/assets/public/compliance/field\\_ops/eapp/EAPP%20GWCD%20map.pdf](http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf)

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

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

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

Ross Corder, PE

Print Name of Customer/Authorized Agent

*Ross Corder*

03-25-2025

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): |



Hill Country Civil  
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## **Application Form**

# 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: Ross Corder, PE

Date: 03/25/2025

Signature of Customer/Agent:



Regulated Entity Name: Liberty Hill Meetinghouse

## Project Information

1. County: Williamson
2. Stream Basin: South Fork San Gabriel River
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

Contact Person: The Church Of Jesus Christ Of Latter-Day Saints

Entity: Liberty Hill Meetinghouse

Mailing Address: 50 E North Temple St, COB 12

City, State: Salt Lake City, UT

Zip: 84150

Telephone: (385) 315-0555

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

Email Address: scottdl@ChurchofJesusChrist.org

5. Agent/Representative (If any):

Contact Person: Ross Corder, PE

Entity: Hill Country Civil

Mailing Address: 391 Landa St. Ste. 1204

City, State: New Braunfels

Zip: 78130

Telephone: (210) 378-4953

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

Email Address: ross@hillcountrycivil.com

6. Project Location:

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

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 location site is off of State Hwy 29 and Bronco Blvd. behind the Prosperity Bank.

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: \_\_\_\_\_  
☐ Residential: # of Living Unit Equivalents: \_\_\_\_\_  
☒ Commercial  
☐ Industrial  
☐ Other: \_\_\_\_\_

13. Total project area (size of site): 6.43 Acres

Total disturbed area: 4 Acres

14. Estimated projected population: 300

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                                | 16,367                | ÷ 43,560 =                 | 0.376               |
| Parking  | 121,282               | ÷ 43,560 =                 | 2.784               |
| Other paved surfaces                               | 0                     | ÷ 43,560 =                 | 0                   |
| Total Impervious Cover                             | 137,649               | ÷ 43,560 =                 | 3.16                |

**Total Impervious Cover  $3.16 \div \text{Total Acreage } 6.43 \times 100 = 49\%$  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                 |                       |                               |                      |
| 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

5 of 11



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): 48491C0245F dated 12-20-19.
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.

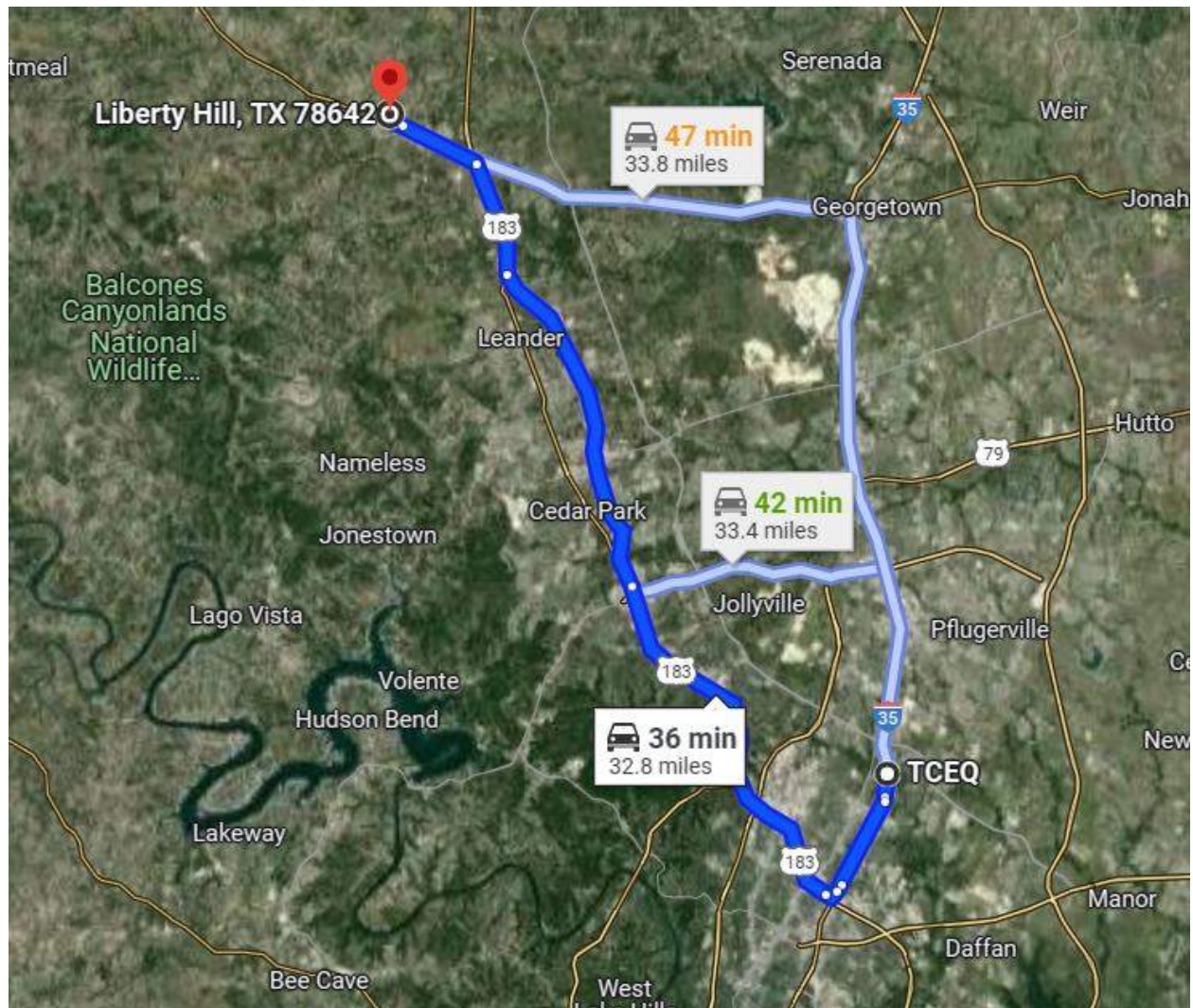
### ***Administrative Information***

- 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.



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## **Attachment A: Road Map**

**Attachment A: Road Map**

TCEQ

12100 Park 35 Cir, Austin, TX 78753

Get on I-35 S from S I-35 Frontage Rd

2 min (1.0 mi)

Take US-183 N and Route 183A N to US-183 N/N US Hwy 183 in Williamson County

24 min (25.4 mi)

Follow US-183 N/N US Hwy 183 and W State Hwy 29 to your destination

10 min (6.5 mi)

Liberty Hill

Texas 78642



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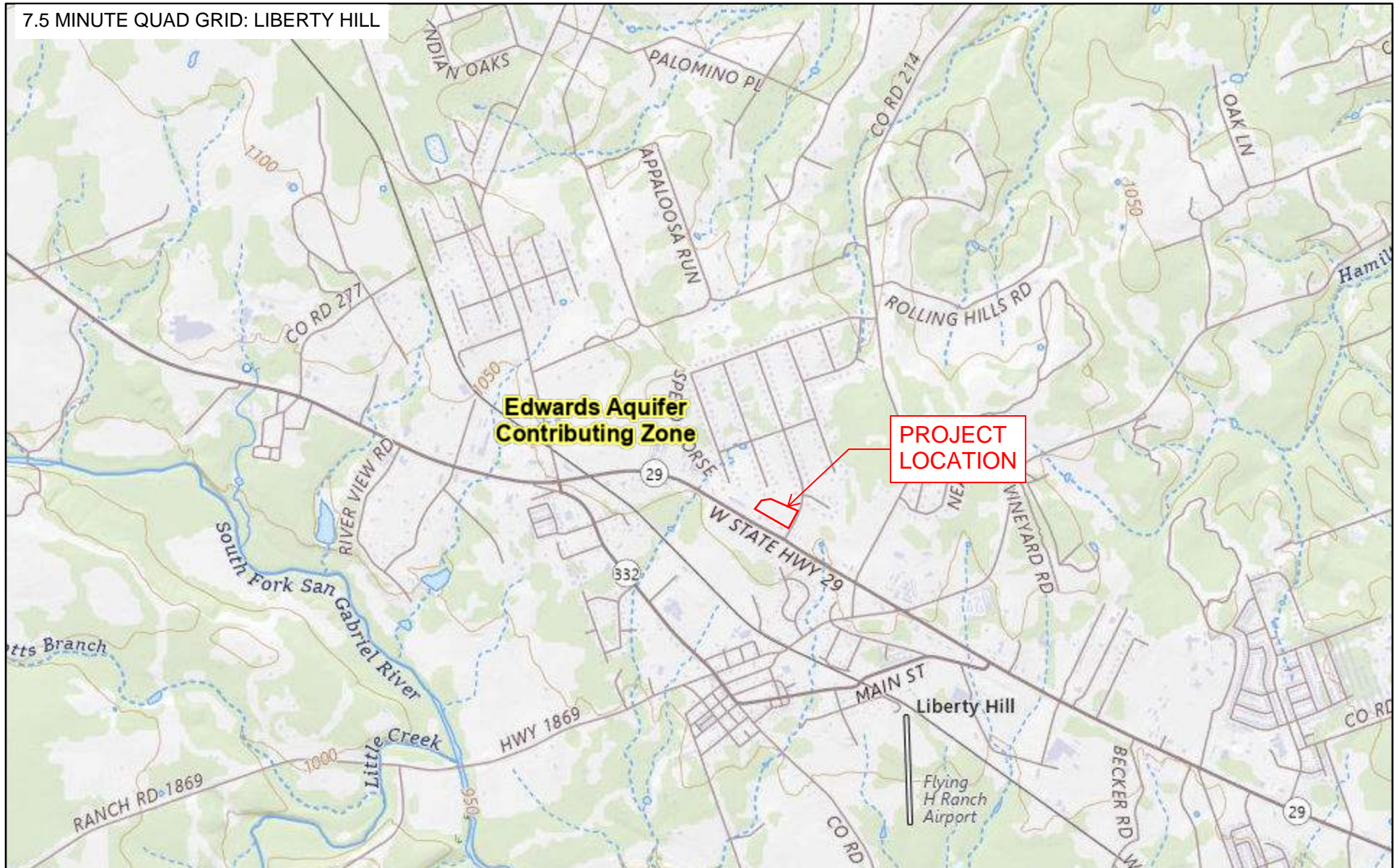


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## **Attachment B: USGS Quad Map**

86\*6 4XDG 0DS

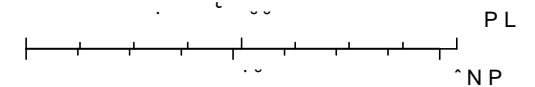
7.5 MINUTE QUAD GRID: LIBERTY HILL



7.5 MINUTE QUAD GRID: LIBERTY HILL

(GZDUGV \$TXLIHU 7DEHLOXWH 4XDG \*ULG

7; &RXQWLHV 7&(4B(':\$5'6B2)),&,\$/B0\$36



7&(4 86\*6 7KH 1DWLRQDO 0DS, 1DWLRQDO %RXQGD  
(OHYDWLRQ 3URJUDP \*HRJUDSKLF 1DPHV ,QIRUPDV

7&(4 \_ 86\*6 7KH 1DWLRQDO 0DS, 1DWLRQDO %RXQGDULHV 'DWDVHW '(3 (OHYDWLRQ 3URJUDP \*HRJUDSKLF 1DPHV ,QIRUPDWLRQ 6\ VWHP 1DWLRQDO +\GURJUDSK\ 'DV



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## **Attachment C: Project Narrative**

### Attachment C: Project Narrative

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Liberty Hill Meetinghouse is a proposed commercial building located at 115 Bronco Blvd. Liberty Hill, TX. The 6.43-acre property is located fully within the city limits of Liberty Hill and entirely inside of the Edwards Aquifer Contributing Zone and located outside of a regulated 100-year floodplain (Zone AE) per FEMA FIRM Panel No. 48491C0245F. The site generally drains from the west to east, towards Bronco Blvd. In accordance with 30 TAC Chapter 213, this CZP application is being submitted for the proposed development to occur onsite.

The property is currently undeveloped grassland. The proposed development consists of the construction of a church with associated parking, utilities, and a batch detention pond for water quality treatment and detention.

New development will disturb approximately 4 acres, of which, 3.16 acres is proposed impervious cover. Based on the total site acreage of 6.43 acres, the total impervious cover percentage is approximately 49%.

The proposed permanent BMP to treat the proposed impervious cover is a Batch Detention Pond, adhering to TCEQ's Technical Guidance Manual (TGM) RG-348. Total Site generated TSS for the project is 2,420 lbs. The basin captures about 2,489 lbs of TSS. There is a small portion of impervious cover that will not be captured by the proposed batch pond. These areas are being treated by overtreatment within the basin.

There are no upgradient areas that drain to this property. Runoff from the adjacent residential properties on the north property line drain down the property line through an existing drainage channel developed when the subdivision was constructed. Therefore, no proposed drainage interceptor channels or upsizing of the batch detention pond to treat offsite runoff is required.

Wastewater flows generated by the project will be treated by a new septic system sized to treat the new development. Potable water will be provided by the City of Georgetown.

## **Attachment D: Factors Affecting Surface Water Quality**

**Attachment D: Factors Affecting Surface Water Quality**

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The list below are potential sources of pollution that may be reasonably expected to impact the quality of stormwater runoff from the site during construction.

- Hydrocarbons from asphalt paving construction
- Oil, fuel, grease and hydraulic fluid from construction equipment and automobiles
- Soil erosion due to site clearing, grading and demolition activities
- Trash, litter and construction debris from workers and construction activities
- Concrete truck washout
- Concrete/masonry
- Fertilizers
- Cleaning solvents

The list below are potential sources of pollution that may be reasonably expected to impact the quality of stormwater runoff from the site after construction or after development.

- Trash and litter typical of daily use from customers and tenants
- Oil, fuel, grease and hydraulic fluid from vehicles parked/traveling onsite
- Dirt and dust from landscape areas and vehicles
- Fertilizers
- Cleaning solvents

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

**Attachment E: Volume and Character of Stormwater**

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The Liberty Hill Meetinghouse site will generate stormwater typical of a commercial development, as outlined in the City of Round Rock Criteria Manual. Runoff will increase as a result of the development for all storm events. The proposed 100-year peak stormwater discharge is approximately 33.16 cfs. However, the site features a proposed detention pond that will mitigate this increase in flows and flows ultimately leaving the tract is approximately 31.59 cfs for the 100-year storm. The runoff coefficient Curve Number (CN) changes from 80 to 93 for the project.





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## **Attachment F: Suitability Letter**

April 8, 2025

The Church of Jesus Christ of Latter-Day Saints  
115 Bronco Blvd.  
Liberty Hill, Texas 78642

RE: 115 Bronco Blvd., Liberty Hill, Texas 78642  
S12842 – Sundance Ranch Commercial Sec.2, Lot 1, Acres 6.45

The above referenced property is located within the Edwards Aquifer Contributing Zone.

Based on the surrounding subdivisions and the soil survey for Williamson County and planning material received, this office is able to determine that the soil and site conditions of this lot is suitable to allow the use of on-site sewage facilities (OSSF). It should be noted that this office has not actually studied the physical properties of this site. Site specific conditions such as OSSF setbacks, recharge features, drainage, soil conditions, etc..., will need taken into account in planning any OSSF.

These OSSF's will have to be designed by a professional engineer or a registered sanitarian. An Edwards Aquifer protection plan shall be approved by the appropriate TCEQ regional office before an authorization to construct an OSSF may be issued. The owner will be required to inform each prospective buyer, lessee or renter of the following in writing:

- That an authorization to construct shall be required before an OSSF can be constructed in the subdivision;
- That a notice of approval shall be required for the operation of an OSSF;
- Whether an application for a water pollution abatement plan as defined in Chapter 213 has been made, whether it has been approved and if any restrictions or conditions have been placed on the approval.

If this office can be of further assistance, please do not hesitate to call.

Sincerely,



James Lancaster, OS 32397  
Williamson County - OSSF



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## **Attachment G: Alternative Secondary Containment Methods**

N/A



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## **Attachment H: AST Containment Structure Drawings**

N/A



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## **Attachment I: 20% or Less Impervious Cover Declaration**

N/A



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

**Attachment J: BMPs for Upgradient Stormwater**

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Upgradient flows are intercepted and diverted by use of swales around the proposed BMPs. Therefore, there are no significant upgradient flows that impact the site and no proposed BMPs are planned specifically for upgradient flows. The proposed onsite Batch Detention Pond is sized to treat all onsite flows and impervious cover.



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## **Attachment K: BMPs for On-site Stormwater**



**Attachment K: BMPs for On-Site Stormwater**

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Proposed on-site BMPs include one (1) Batch Pond designed in accordance with TCEQ's Technical Guidance Manual (TGM) RG-348. The Batch Pond will be designed as an online facility. For online facilities the principal and emergency spillways must be sized to provide 1.0 foot of freeboard during the 25-year event and to safely pass the flow from the 100-year storm. The water quality volume required in the ponds is t. 11,692 cuft. The overall volume of the pond is 36,752 cuft. Both the 25-year and 100-year storm events are contained within the pond. The Batch Pond is sized to treat a total of 2,420 lbs of TSS generated by the site.

Batch Basins capture and temporarily detain the water quality volume from a storm event, for a period of 12-48 hours, using an automated controller and valve. The Extended Detention outfall details and logic controls can be found on the attached Construction Drawings, reference the Batch Detention Pond Detail Sheets.



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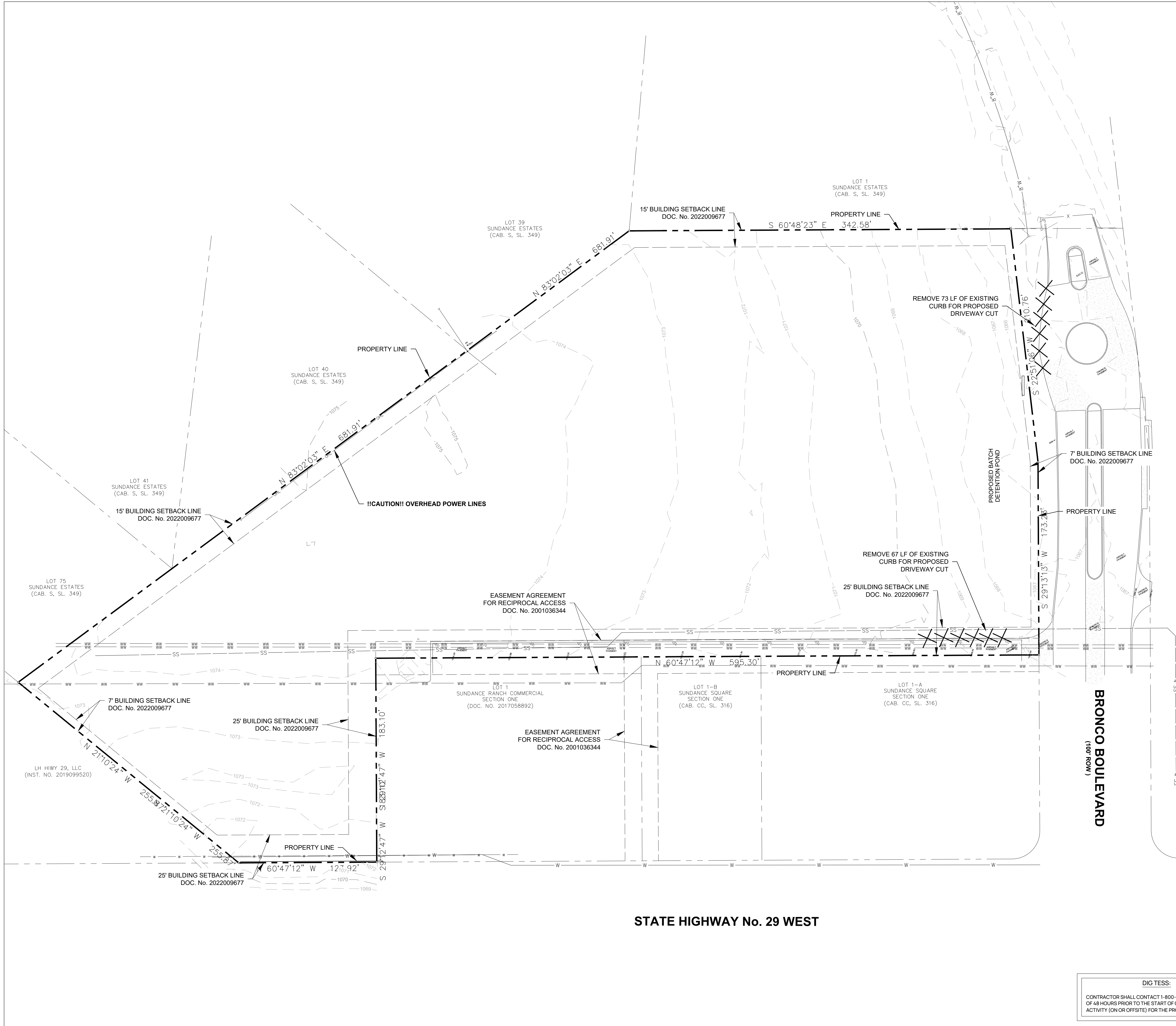
## **Attachment L: BMPs for Surface Streams**

N/A



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## **Attachment M: Construction Plans**



0 20 40 80  
SCALE: 1"=40'

**LEGEND**

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SITE BENCHMARK
- PROPERTY CORNER
- GAS LINE
- OVERHEAD ELECTRIC LINE
- FENCE LINE
- EXISTING TREE
- SIGN
- POWER POLE
- SITE DEMOLITION

- DEMOLITION PLAN NOTES:**
- PRIOR TO START OF CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL CONSTRUCT ALL REQUIRED EROSION CONTROL AND TREE PROTECTION MEASURES AS INDICATED ON STORM WATER POLLUTION PREVENTION PLAN AND/OR LANDSCAPE ARCHITECT DRAWINGS.
  - PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH LOCAL TV, ELECTRIC, GAS, WATER, SEWER AND PHONE PROVIDERS AS REQUIRED TO PROVIDE SERVICE TO THE PROJECT SITE.
  - CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.
  - ANY GARBAGE OR DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE.
  - REMOVAL, RELOCATION OR DISCONNECTION FROM A UTILITY SERVICE (ELECTRIC, GAS, WATER, SEWER, CABLE, TV, FIBER, ETC.) SHALL BE COORDINATED WITH APPROPRIATE UTILITY SERVICE PROVIDER PRIOR TO START OF DEMOLITION ACTIVITIES.
  - CONTRACTOR SHALL PROPERLY DISPOSE OF ANY HAZARDOUS MATERIALS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. FURTHERMORE, HAZARDOUS MATERIALS SHALL BE HANDLED BY PROPERLY LICENSED AND TRAINED HAZARDOUS MATERIAL SUB-CONTRACTORS/INDIVIDUALS.
  - CONTRACTOR SHALL COORDINATE ALL REMOVED ITEMS WITH OWNER. CONTRACTOR IS RESPONSIBLE FOR ALL DISPOSAL AND HAULING COSTS AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS FOR DISPOSING OF DEMOLISHED MATERIALS.

**CAUTION!**

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

**TRENCH EXCAVATION SAFETY PROTECTION**

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS, SPECIFICALLY, CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

**DIG TESS:**

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

Architect / Engineer:

**Hill Country Civil**  
Engineers • Consultants  
Treasurer License No. F-22927  
Professional Seal  
391 Landa Street, Ste. 100, New Braunfels, TX 78124  
Phone: 817-263-1000  
www.hillcountrycivil.com

Stamp:

Project for:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

| Mark | Description | Date (D-M-Y) | 50% CD |
|------|-------------|--------------|--------|
| 1    |             | 08-APR-2024  |        |

Project Number:  
**HCC 013-04**

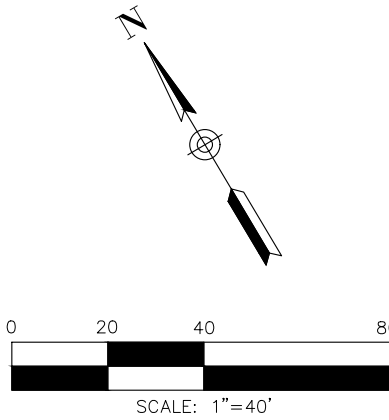
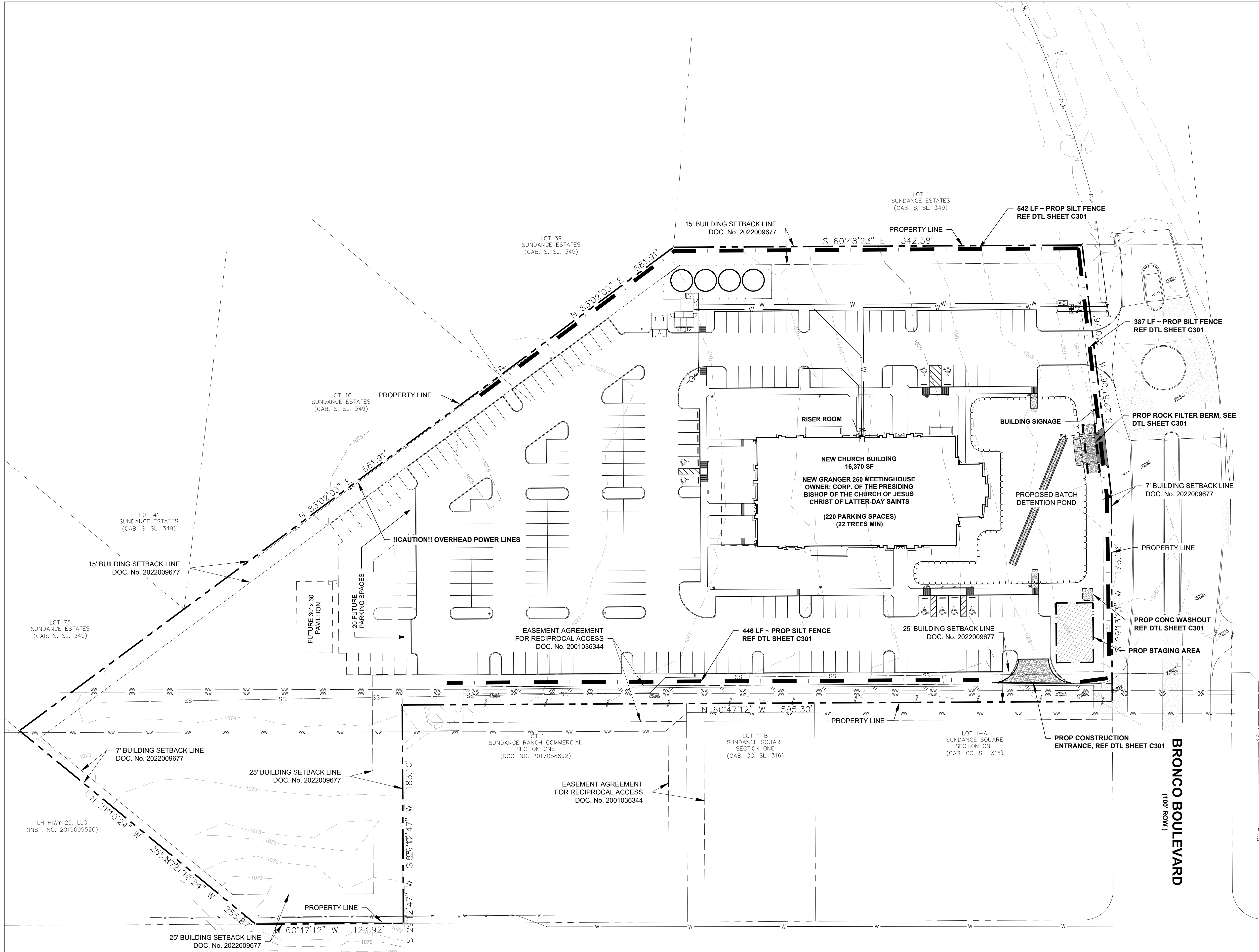
Plan Series:  
**G250-MH-11**

Property Number:  
**501-7850**

Sheet Title:  
**EXISTING CONDITIONS AND DEMOLITION PLAN**

Sheet:  
**C200**





- LEGEND**
- PROPERTY BOUNDARY
  - LOT LINE
  - EASEMENT LINE
  - SITE BENCHMARK
  - PROPERTY CORNER
  - GAS
  - GAS LINE
  - OVERHEAD ELECTRIC LINE
  - FENCE LINE
  - EXISTING TREE
  - SIGN
  - POWER POLE
  - SILT FENCE
  - STABILIZED CONSTRUCTION ENTRANCE
  - STAGING AREA
  - CONCRETE WASHOUT PIT
  - ROCK FILTER BERM

**EROSION CONTROL PLAN NOTES:**

- CONTRACTOR SHALL FILE STORM WATER POLLUTION PREVENTION PLAN WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND POST A SITE NOTICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL FILE THE NOTICE OF INTENT AND NOTICE OF TERMINATION WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PRIOR TO START OF CONSTRUCTION AND AT THE END OF THE PROJECT.
- ALL STRUCTURAL BMP'S SHALL BE INSTALLED PRIOR TO START OF ANY DISTURBANCE OR CONSTRUCTION ACTIVITY ON SITE, INCLUDING BUT NOT LIMITED TO EXCAVATION, CLEARING, GRUBBING, OR GRADING.
- CONTRACTOR SHALL INSTALL BMP'S AS REQUIRED BY PHASE FOR THE PROJECT OR AS SPECIFICALLY INDICATED PER PLAN. ALL PHASING OR ADJUSTMENTS TO THE EROSION CONTROL PLAN SHALL TAKE INTO ACCOUNT UP-GRADIENT STORM WATER FLOWS FOR PLACEMENT OF BMP'S.
- CONTRACTOR SHOULD IN BEST EFFORT, ONLY DISTURB AREAS WHERE CONSTRUCTION ACTIVITY IS REQUIRED IN AN EFFORT TO REDUCE POTENTIAL OF STORM WATER POLLUTION RUNOFF FROM THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND INSPECTING STRUCTURAL BMP'S DAILY AND ESPECIALLY AFTER STORM EVENTS TO ENSURE BMP'S ARE FUNCTIONING PROPERLY. THE CONTRACTOR MAY MODIFY CONTROLS AS REQUIRED TO PREVENT SEDIMENT RUNOFF DOWNSTREAM IMPACTS.
- CONTRACTOR SHALL USE DUST CONTROL MEASURES DURING CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS REQUIRED.
- CONTRACTOR SHALL CLEAN UP ANY SEDIMENTATION RUNOFF OR SPOILS THAT MIGRATE ONTO ADJACENT ROADWAYS AFTER A STORM EVENT OR AS REQUIRED BY THE LOCAL INSPECTOR.
- CONTRACTOR SHALL SEED OR SOD DISTURBED AREAS WITH BERMUDA GRASS OR SOME OTHER FORM OF HARD GRASS AS SOON AS POSSIBLE TO AVOID SOIL RUNOFF AFTER CONSTRUCTION IN THAT AREA IS COMPLETED.
- TREES PROPOSED TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION AND MUST MEET THE FOLLOWING CRITERIA:
  - MINIMUM OF 50% OF THE CRITICAL ROOT ZONE MUST BE PRESERVED AT NATURAL GRADE, WITH NATURAL GROUND COVER.
  - CUT OR FILL IS LIMITED TO 4-INCHES FROM THE  $\frac{1}{2}$  CRITICAL ROOT ZONE TO THE  $\frac{1}{2}$  CRITICAL ROOT ZONE.
  - NO CUT OR FILL IS PERMITTED WITHIN THE  $\frac{1}{2}$  CRITICAL ROOT ZONE.
- BMP'S MAY ONLY BE REMOVED ONCE THE SITE ACHIEVES 80% RE-VEGETATION IN DISTURBED AREAS.

**SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES:**

- INSTALLATION OF TEMPORARY BMP'S.
- SITE CLEARING AND GRUBBING.
- SITE DEMOLITION ACTIVITIES.
- ROUGH SITE GRADING AND SUBGRADE PREPARATION.
- STORMWATER FACILITIES CONSTRUCTED.
- UTILITY CONSTRUCTION.
- FINAL SITE GRADING AND SUBGRADE PREPARATION.
- PAVEMENT INSTALLATION, INCLUDING BASE MATERIALS AND CONCRETE/ASPHALT PAVEMENT AND CURBS.
- BUILDING PAD CONSTRUCTION.
- BUILDING CONSTRUCTION.
- LANDSCAPING AND IRRIGATION CONSTRUCTION.
- SITE STABILIZATION, REVEGETATION OF DISTURBED AREAS.
- SITE CLEANUP AND REMOVAL OF TEMPORARY BMP'S.

**CAUTION!**

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

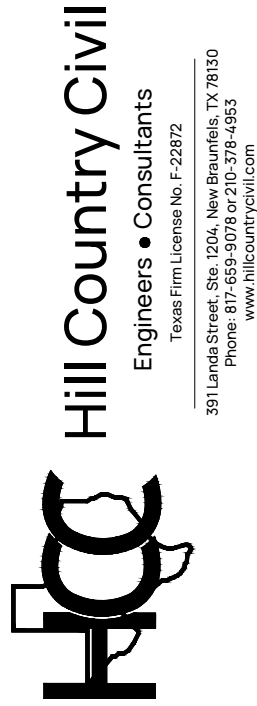
**DIG TESS:**

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.

**TRENCH EXCAVATION SAFETY PROTECTION**

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS, SPECIFICALLY, CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

Architect / Engineer:



Stamp:



ROUND ROCK TX STAKE -  
LIBERTY HILL  
MEETINGHOUSE

115 Bronco Blvd, Liberty Hills, TX 78642

Project for:  
**THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS**

| Date (D-M-Y) | Description | 50% CD |
|--------------|-------------|--------|
| 08-APR-2024  |             |        |
| Mark 1       |             |        |

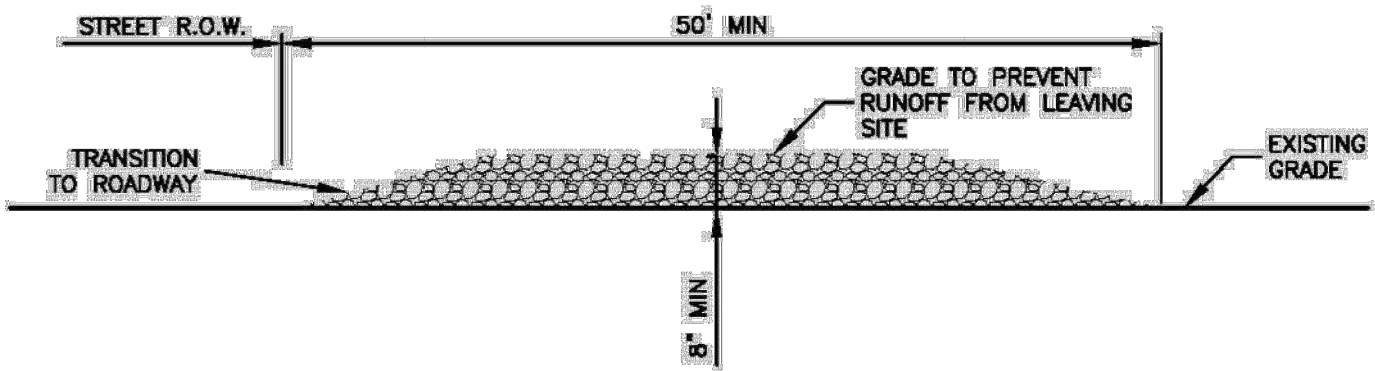
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**HCC 013-04**  
Plan Series:  
**G250-MH-11**  
Property Number:  
**501-7850**

Sheet Title:  
**EROSION  
CONTROL PLAN**

Sheet:

**C300**





CROSS SECTION

NOTES:

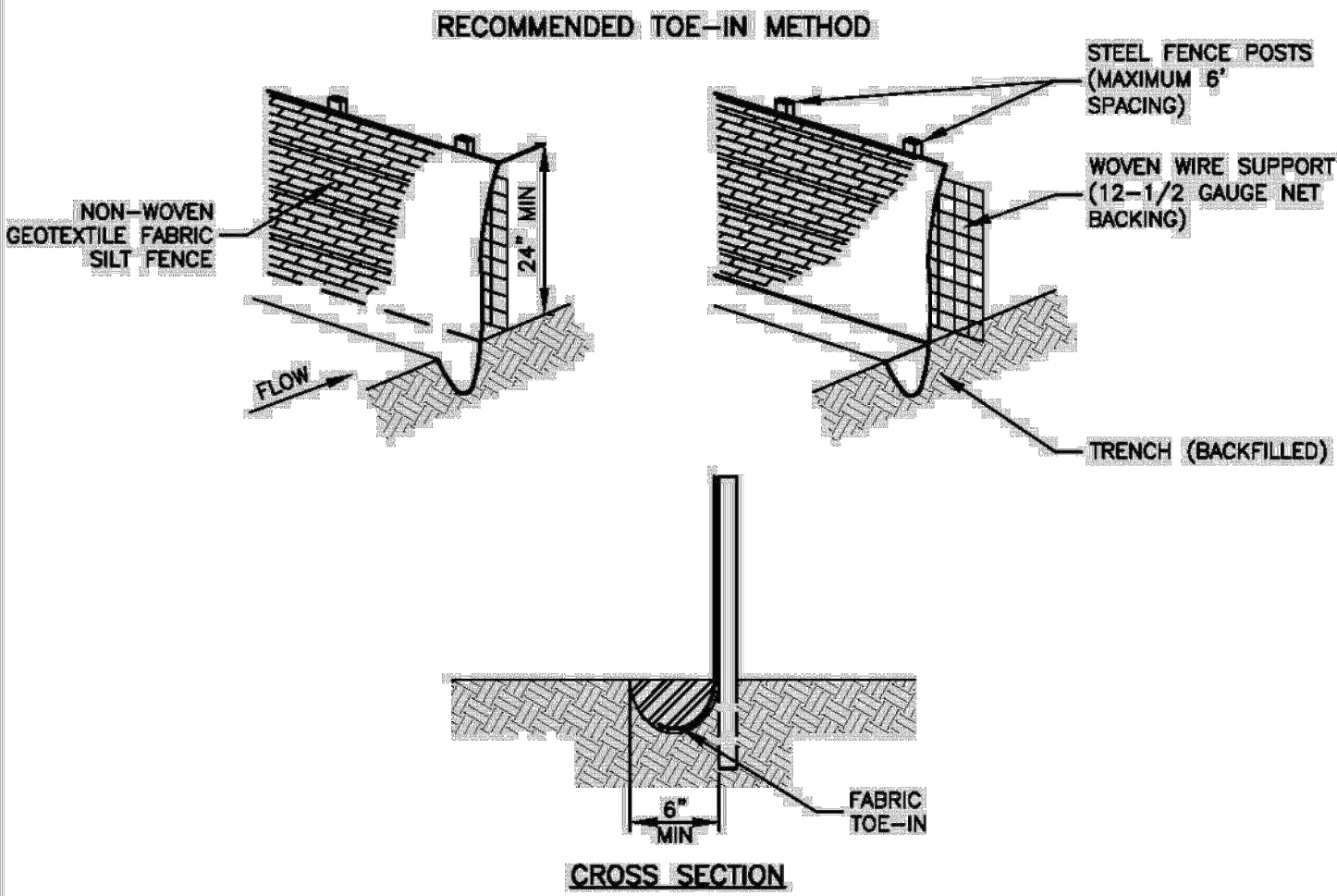
1. STONE SIZE SHALL BE 3" - 8" OPEN GRADED ROCK.
2. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
3. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
4. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION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

RECORD SIGNED COPY  
ON FILE AT PUBLIC WORKS  
APPROVED  
03-25-11  
DATE

CITY OF ROUND ROCK

DRAWING NO:  
EC-09

STABILIZED CONSTRUCTION  
ENTRANCE DETAIL



CROSS SECTION

NOTES:

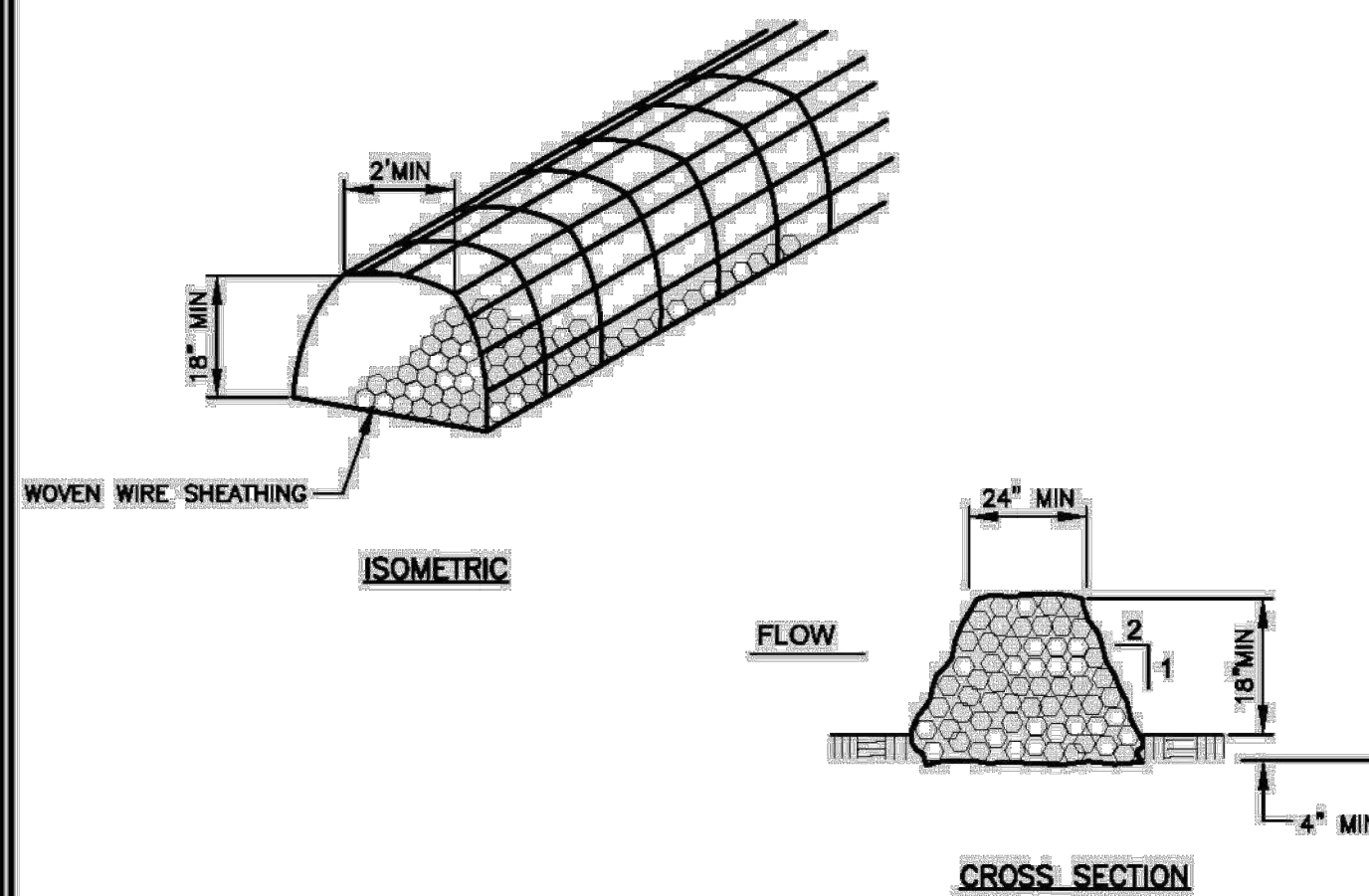
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MIN. OF ONE (1) FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT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

RECORD SIGNED COPY  
ON FILE AT PUBLIC WORKS  
APPROVED  
03-25-11  
DATE

CITY OF ROUND ROCK

DRAWING NO:  
EC-10

SILT FENCE DETAIL



CROSS SECTION

NOTES:

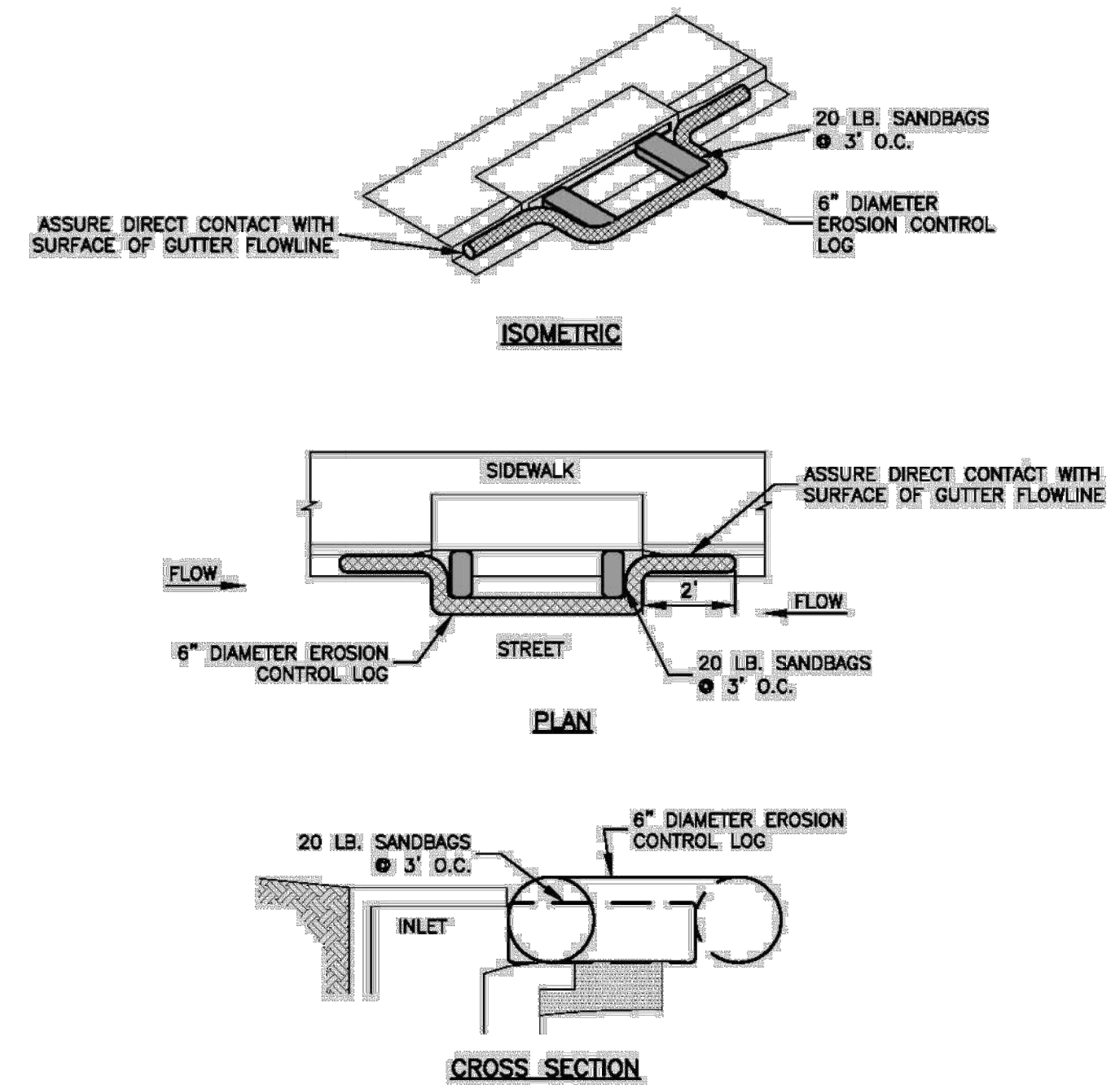
1. USE ONLY OPEN GRADED ROCK (3 TO 5") DIAMETER FOR ALL CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1" OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE.
3. THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/ OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. IF SEDIMENT REACHES A DEPTH OF 6", THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION PROBLEM.
5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

RECORD SIGNED COPY  
ON FILE AT PUBLIC WORKS  
APPROVED  
03-25-11  
DATE

CITY OF ROUND ROCK

DRAWING NO:  
EC-12

ROCK BERM DETAIL



CROSS SECTION

NOTES:

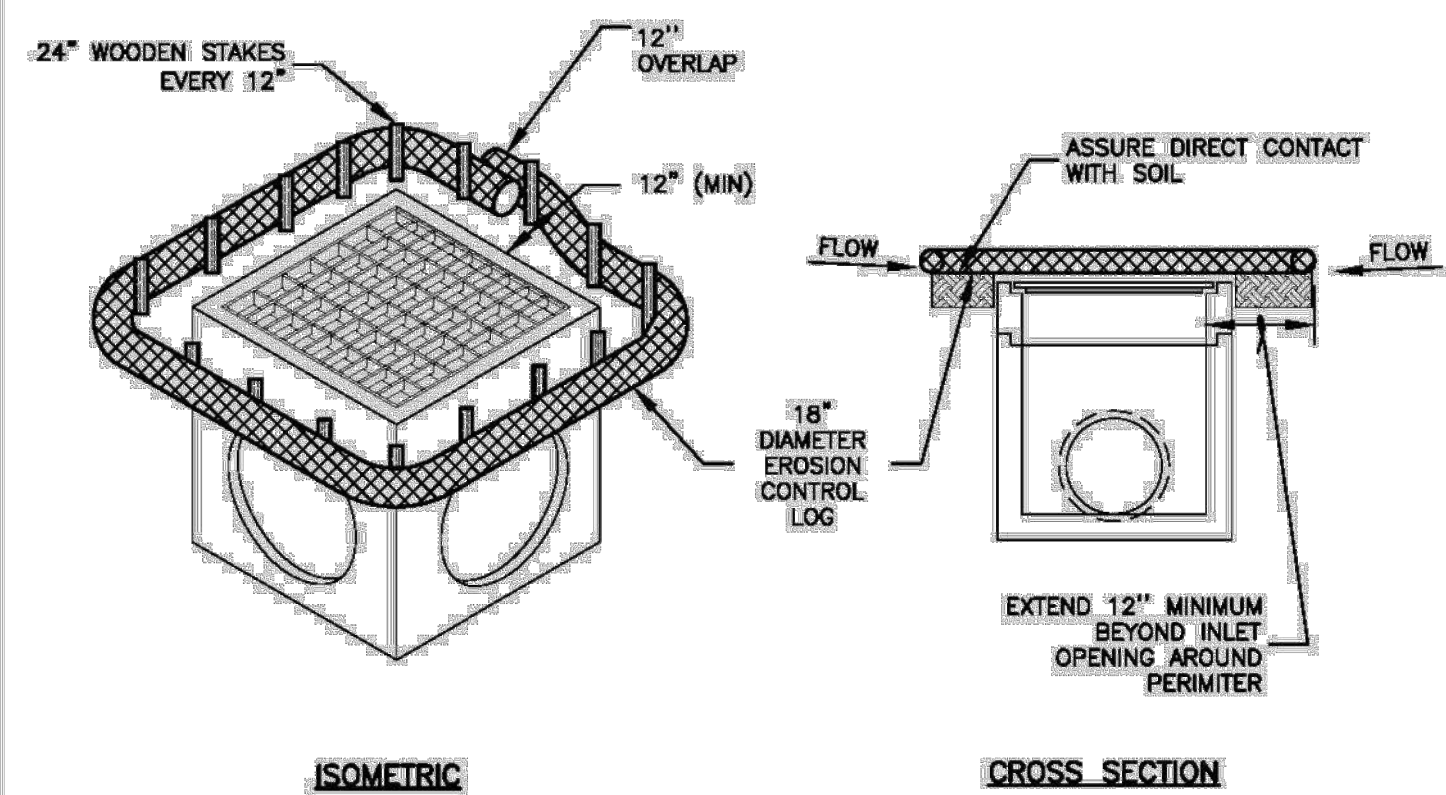
1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE; AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM WATER BEGINS TO OVERTOP THE CURB.
4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

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03-25-11  
DATE

CITY OF ROUND ROCK

DRAWING NO:  
EC-13

CURB INLET PROTECTION WITH  
EROSION CONTROL LOG DETAIL



ISOMETRIC

CROSS SECTION

NOTES:

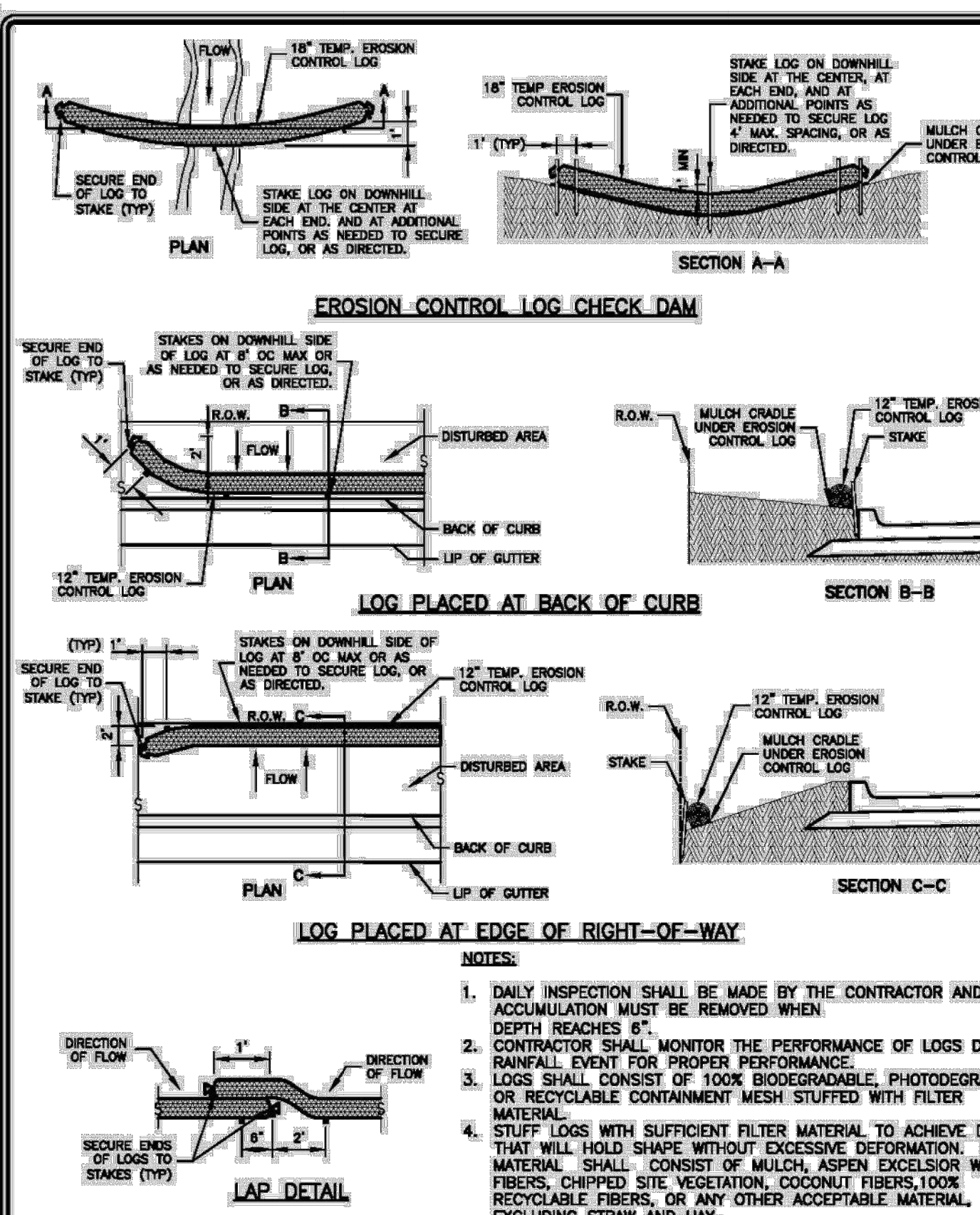
1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE; AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 6".
3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

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DATE

CITY OF ROUND ROCK

DRAWING NO:  
EC-16

AREA INLET PROTECTION WITH  
EROSION CONTROL LOG DETAIL



EROSION CONTROL LOG CHECK DAM

LOG PLACED AT BACK OF CURB

LOG PLACED AT EDGE OF RIGHT-OF-WAY

NOTES:

1. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 6".
2. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF LOGS DURING RAINFALL EVENT FOR PROPER PERFORMANCE.
3. LOGS SHALL CONSIST OF 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE CONTAINMENT MESH STUFFED WITH FILTER MATERIAL.
4. STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION. FILTER MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR WOOD FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
5. STAKES SHALL BE 2" X 2" WOOD, 4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED.

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03-25-11  
DATE

CITY OF ROUND ROCK

DRAWING NO:  
EC-17

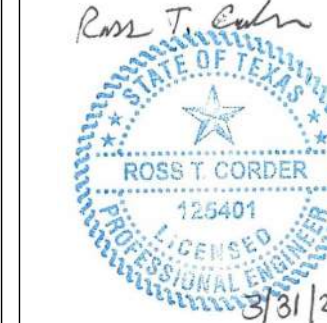
EROSION CONTROL LOG DETAIL



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LIBERTY HILL  
MEETINGHOUSE  
115 Bronco Blvd, Liberty Hills, TX 78642

Project for:  
THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS

| Mark | Description | 50% CD |
|------|-------------|--------|
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Project Number:  
HCC 013-04  
Plan Series:  
G250-MH-11  
Property Number:  
501-7850

Sheet Title:  
EROSION  
CONTROL  
DETAILS

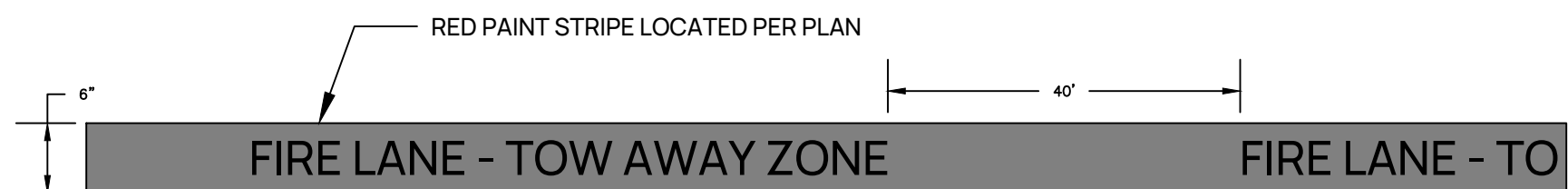
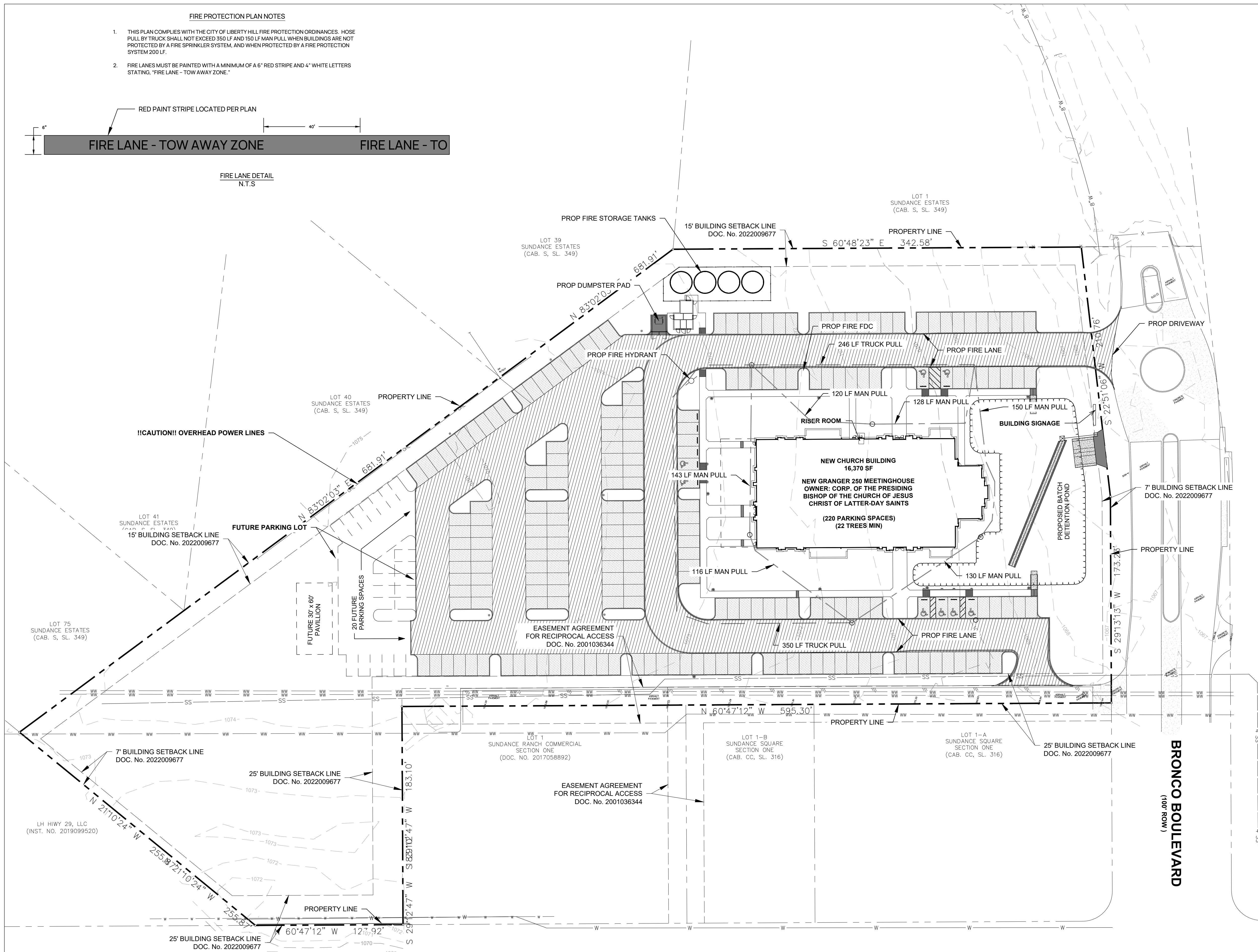
Sheet:

C301



## FIRE PROTECTION PLAN NOTES

- THIS PLAN COMPLIES WITH THE CITY OF LIBERTY HILL FIRE PROTECTION ORDINANCES. HOSE PULL BY TRUCK SHALL NOT EXCEED 350 LF AND 150 LF MAN PULL WHEN BUILDINGS ARE NOT PROTECTED BY A FIRE SPRINKLER SYSTEM, AND WHEN PROTECTED BY A FIRE PROTECTION SYSTEM 200 LF.
- FIRE LANES MUST BE PAINTED WITH A MINIMUM OF A 6" RED STRIPE AND 4" WHITE LETTERS STATING, "FIRE LANE - TOW AWAY ZONE."

FIRE LANE DETAIL  
N.T.S.

SCALE: 1"=40'

0 20 40 80

LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- SETBACK LINE
- LANDSCAPE BUFFER LINE
- EASEMENT LINE
- SITE BENCHMARK
- PROPERTY CORNER
- GAS LINE
- OVERHEAD ELECTRIC LINE
- FENCE LINE
- EXISTING TREE
- SIGN
- POWER POLE
- FIRE TRUCK HOSE PULL
- FIRE HOSE MAN PULL
- FIRE LANE
- LIGHT DUTY ASPHALT PAVEMENT  
REFERENCE DETAILS AND GEOTECH  
REPORT FOR SECTION REQUIREMENTS
- MEDIUM DUTY ASPHALT PAVEMENT  
REFERENCE DETAILS AND GEOTECH  
REPORT FOR SECTION REQUIREMENTS
- HEAVY DUTY CONCRETE PAVEMENT  
REFERENCE DETAILS AND GEOTECH  
REPORT FOR SECTION REQUIREMENTS

## SITE PLAN NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL BUILDING, SAFETY, AND INSPECTION REGULATIONS.
- CONTRACTOR SHALL KEEP A COPY OF APPROVED CONSTRUCTION DRAWINGS ONSITE AT ALL TIMES.
- ALL DIMENSIONS SHOWN ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS STATED OTHERWISE.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH LOCAL TV, ELECTRIC, GAS, WATER, SEWER AND PHONE PROVIDERS AS REQUIRED TO PROVIDE SERVICE TO THE PROJECT SITE.
- CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.
- ALL RAMPS, ACCESSIBLE PATHS, AND ACCESSIBLE PARKING SPOTS SHALL BE IN COMPLIANCE WITH THE LATEST TEXAS ACCESSIBILITY STANDARDS (TAS).
- WHEELSTOPS SHALL BE PRE-CAST CONCRETE AND AND 6' IN LENGTH, OR AS SPECIFICALLY CALLED OUT ON PLANS. FURTHERMORE, WHEELSTOPS SHALL BE DOWELED IN PLACE A MINIMUM OF 12" INTO PAVEMENT AND BASE SECTION.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER OR LIGHTING CONSULTANT FOR LAYOUT OF PARKING LOT LIGHTS.
- ALL DUMPSTER PADS AND APRONS SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PER THE SITE GEOTECHNICAL REPORT.
- DUMPSTER'S SHALL BE SCREENED FROM PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTIES. SCREENING SHALL BE A MINIMUM OF 7' TALL. GATES TO ACCESS DUMPSTER'S SHALL BE A MINIMUM OF 12' WIDE.
- PROPOSED PAVEMENT SECTIONS SHALL BE PER THE SITE GEOTECH REPORT.

Architect / Engineer:

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Stamp:

ROUND ROCK TX STAKE -  
LIBERTY HILL  
MEETINGHOUSE

115 Bronco Blvd, Liberty Hills, TX 78642

Project for:  
THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS

| Mark | Date (D-M-Y) | Description |
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| 1    | 08-APR-2024  | 50% CD      |

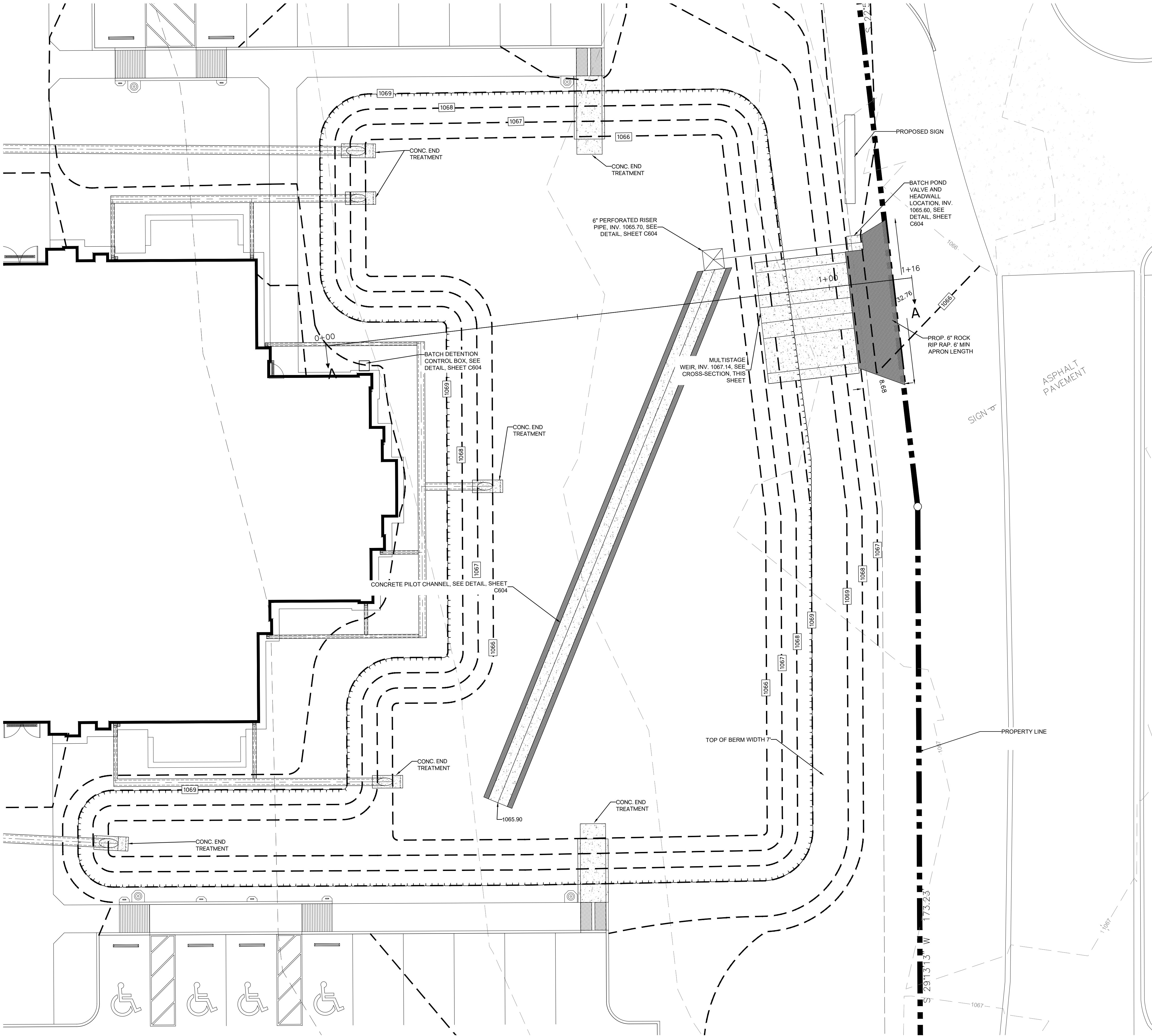
Project Number:  
HCC 013-04  
Plan Series:  
G250-MH-11  
Property Number:  
501-7850Sheet Title:  
OVERALL SITE  
PLAN

Sheet:

C400

STATE HIGHWAY No. 29 WEST





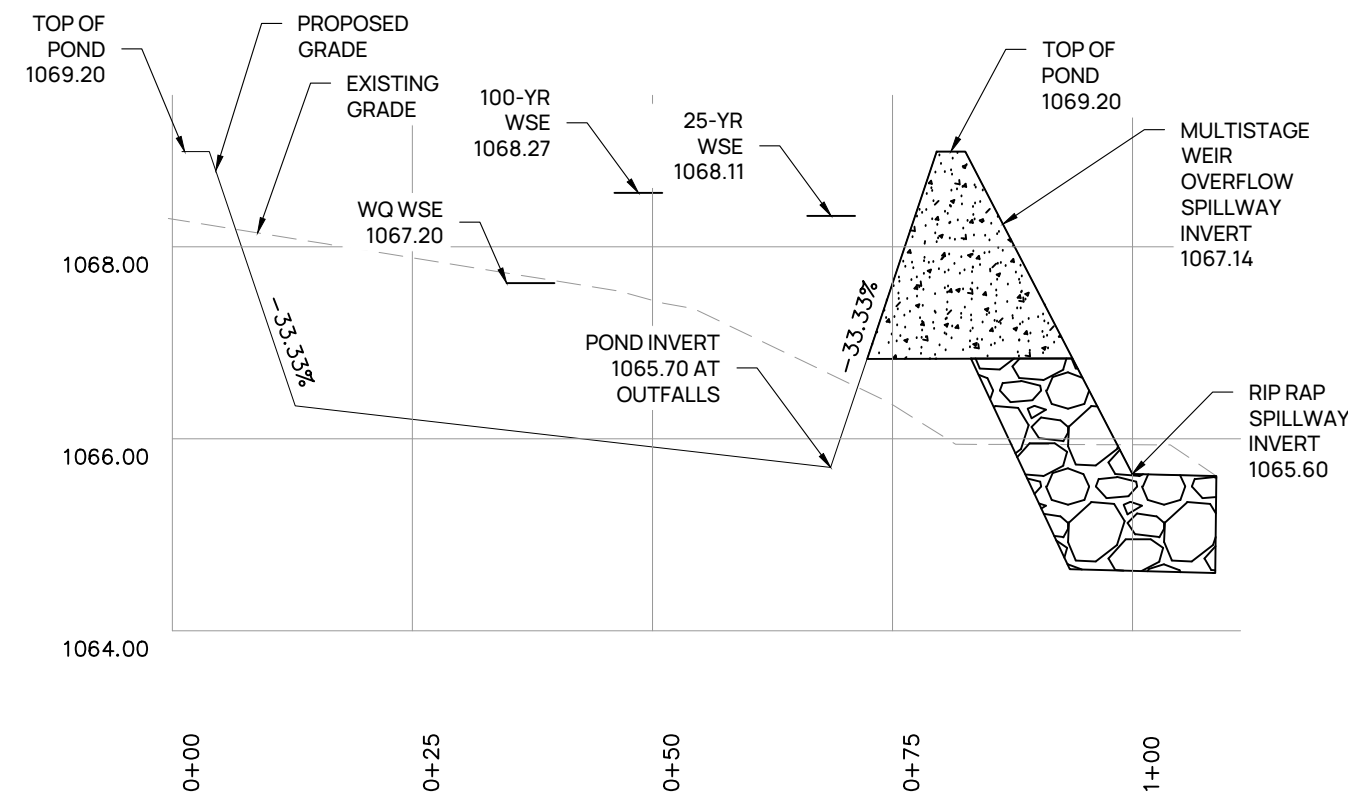
DETENTION PLAN NOTES:

- POND WALLS SHALL BE OF WATER TIGHT DESIGN IN ORDER TO MAINTAIN PROPER FUNCTION OF THE POND.
- ALL ROCK RIP RAP SHALL BE A MINIMUM 6" AND HAVE A MINIMUM APRON LENGTH OF 6'. EMBEDMENT DEPTH OF RIP RAP SHALL BE 1.5 TIMES THE DIAMETER OF THE ROCK.
- ALL DISTURBED AREAS SHALL BE RESTORED AND PERMANENTLY REVEGETATED UNLESS OTHERWISE NOTED IN THE PLANS.
- AT A MINIMUM DISTURBED AREAS NEED TO BE REVEGETATED AS PER TXDOT ITEM 164 SEEDING FOR EROSION CONTROL. PLANTING MUST FOLLOW EITHER SAN ANTONIO OR AUSTIN TXDOT REQUIREMENTS FOR SEED WEIGHT PER ACRE.
- THE PLANTED AREAS SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OF MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.
- REFER TO DETENTION POND DETAILS SHEET FOR ADDITIONAL DETAILS ON POND DESIGN.

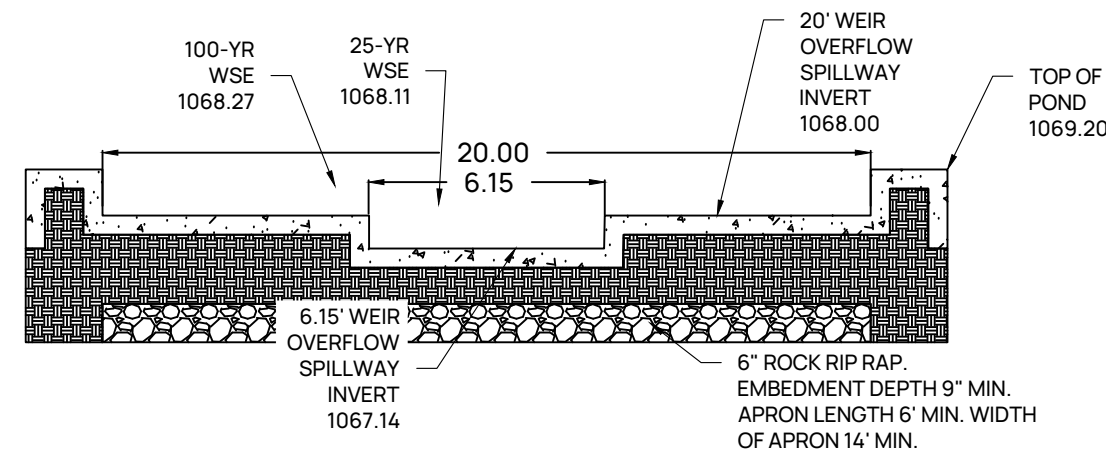
LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SITE BENCHMARK
- PROPERTY CORNER
- GAS LINE
- OVERHEAD ELECTRIC LINE
- FENCE LINE
- EXISTING TREE
- SIGN
- POWER POLE

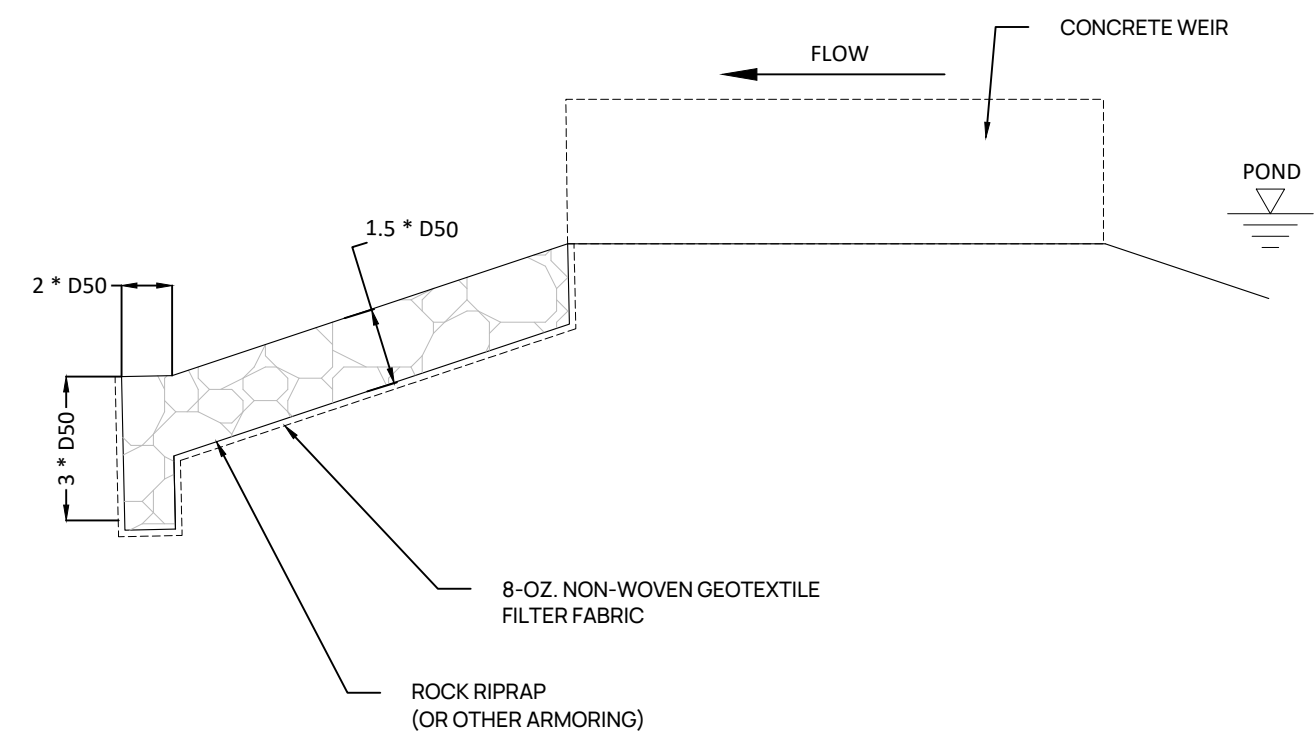
SCALE: 1"=10'



POND PROFILE CROSS-SECTION A-A  
SCALE H: 1"=20' V: 1"=2'



POND WEIR CROSS-SECTION  
N.T.S.



POND WEIR CROSS-SECTION & RIP RAP TYP.  
N.T.S.

Architect / Engineer:

**Hill Country Civil**  
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391 Linda Street, Ste. 100, New Braunfels, TX 78123  
Treas. Firm License No. F-22972  
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Project for:  
**THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS**

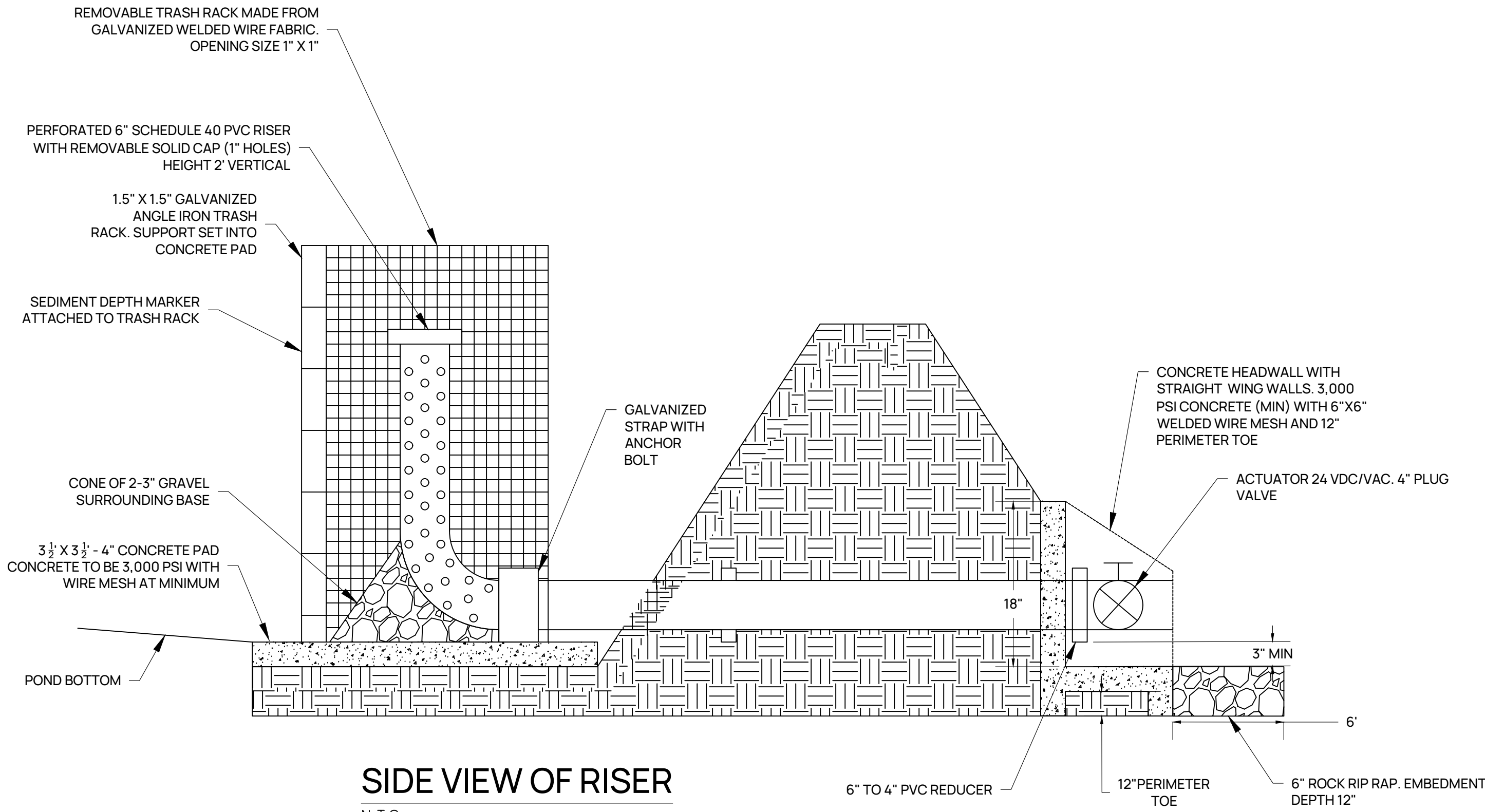
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Project Number:  
HCC 013-04  
Plan Series:  
G250-MH-11  
Property Number:  
501-7850

Sheet Title:  
**DETENTION  
POND PLAN**

Sheet:  
**C603**



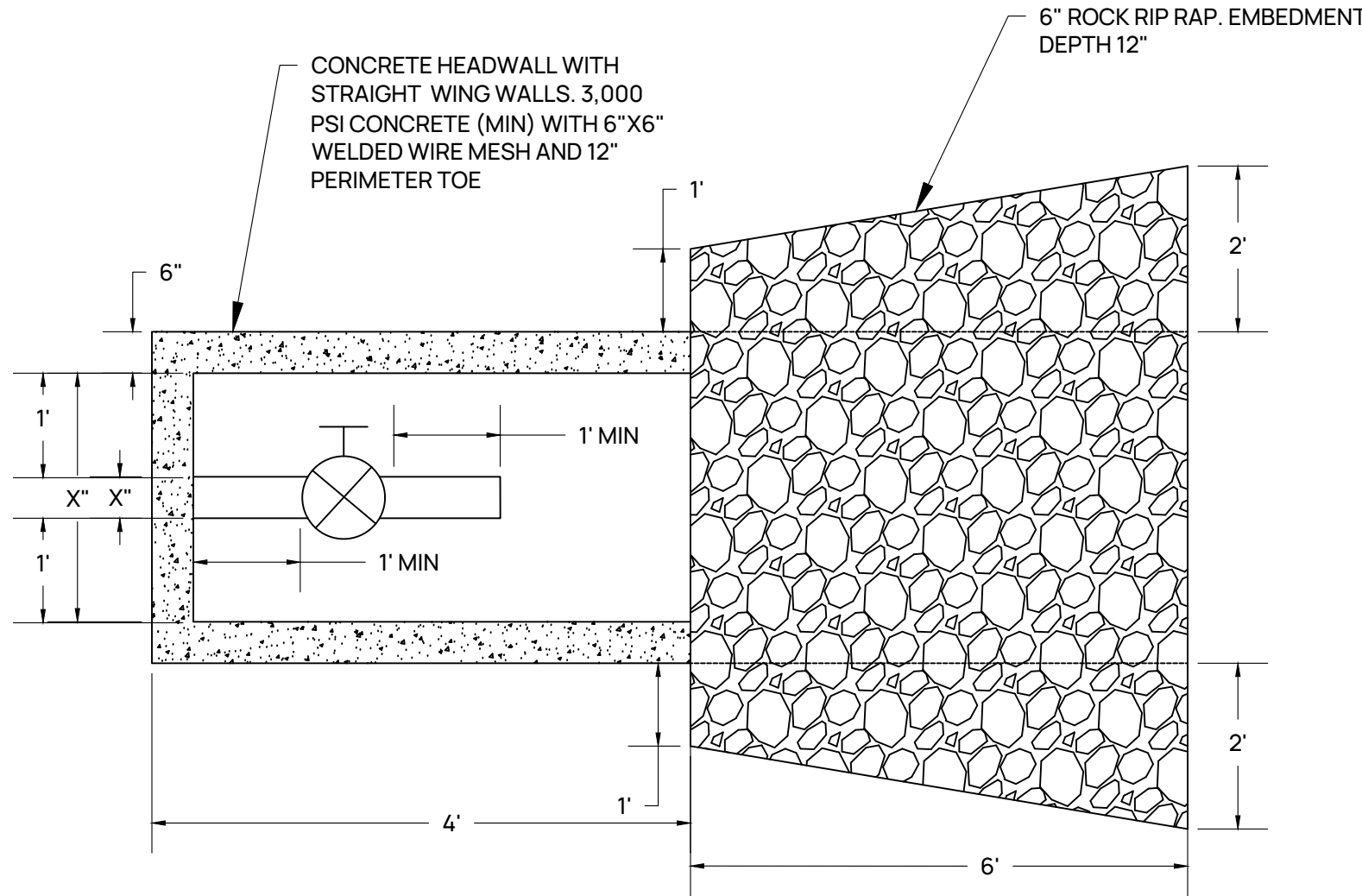


SIDE VIEW OF RISER

N.T.S.

NOTES

1. CLAY LINER TO MEET SPECIFICATIONS FOUND IN THE TCEQ RG-348 SECTION 3.4.2 BASIN LINING REQUIREMENTS. A GEOTEXTILE LINER MAY BE USED IN PLACE OF THE CLAY LINER. ADDITIONAL SPECS PROVIDED ON THIS SHEET.

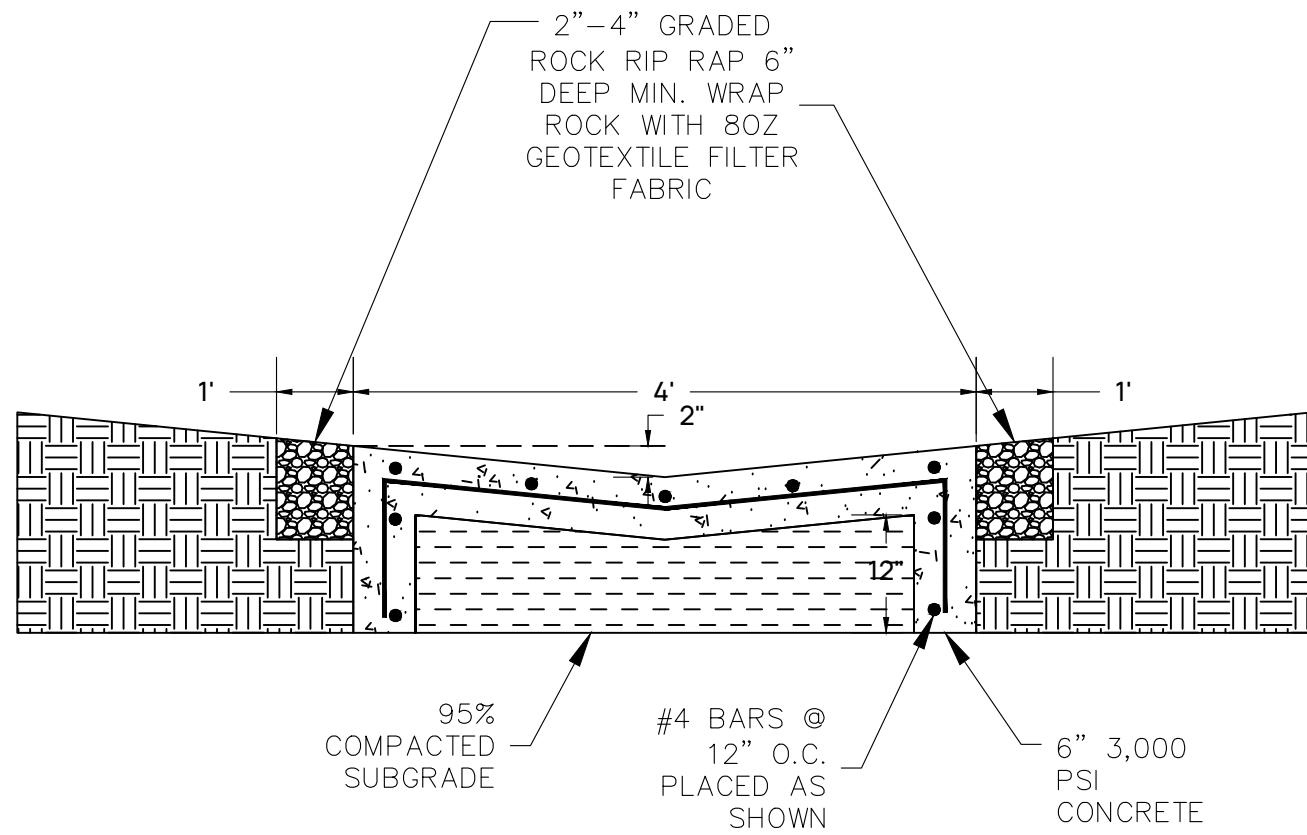


HEADWALL AND RIP RAP DETAIL

N.T.S.

NOTES

1. ROCK RIP RAP APRON SIZES SHOWN ARE MINIMUM. ADDITIONAL RIP RAP MAY BE INSTALLED IF DESIRED.



CONCRETE PILOT CHANNEL

N.T.S.

Architect / Engineer:



Stamp:



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LIBERTY HILL  
MEETINGHOUSE

115 Bronco Blvd, Liberty Hills, TX 78642

Project for:  
THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS

| Date<br>(D-M-Y) | Mark | Description |
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Project Number:  
HCC 013-04  
Plan Series:  
G250-MH-11  
Property Number:  
501-7850

Sheet Title:

DETENTION  
POND DETAILS  
(1 OF 2)

Sheet:

C604



Batch Detention Pond Specification Submittal

**Preface** – The following specifications describe the general function and components of a typical Texas Commission on Environmental Quality (TCEQ) approved batch detention pond. The system operates as an "off-grid" electronically controlled solar powered storm water management unit. This batch detention system uses a water level sensor, solar power panel, logic controller w/ microprocessor, and a plug valve with actuator to meet batch detention standards as set by the TCEQ.

**Certification** – All of the components described below meet TCEQ's batch detention specifications for a 91% Total Suspended Solid removal rate. See attached logic flow chart for overview of system cycles.

**Components:**

- Valve – 4" or 6", cast iron, actuated by an electric motor, valve placed in concrete vault when installed below ground, valve placed on concrete pad due to weight.
- Actuator – low voltage motor mounted on top of valve, bolted in place to concrete vault ceiling
- Extended bonnet - Cold rolled steel stem extension that connects valve to actuator when valve is used in subgrade applications, stainless steel flanges
- Main board – 24-volt panel that controls all aspects of batch control system
- Batteries – two 12-volt 35 amp/hr. sealed lead acid (SLA) connected in series
- Solar Panel – 24-volt 30-watt. One charge controller regulates solar panel power for batch control system.
- Sensor 1 – float switch – mounted on trash rack that indicates when water present in pond and when pond is empty
- Sensor 2 – position sensor in actuator – determines the orientation of the valve to control positions for start and stop

**Controller Programming** – All functions of the system are factory programmed which allows the control box, valve, and actuator to received and send commands on their own based on environmental conditions without any human interaction. Manual mode to override switch to open and close valve by flip of a switch and to test all components during inspections. Reset button to reset controller.

**Alerts** - The main board will illuminate an exterior red light for the following conditions:


- Improper valve function
- Low battery
- Sensor 1 float switch inoperable

**Manual Control** - In case of electronic inoperability or failed actuator, an effortless clutchless handwheel on the actuator can be turned to open or close valve manually, easy-to-read position indicator displays open/closed valve position

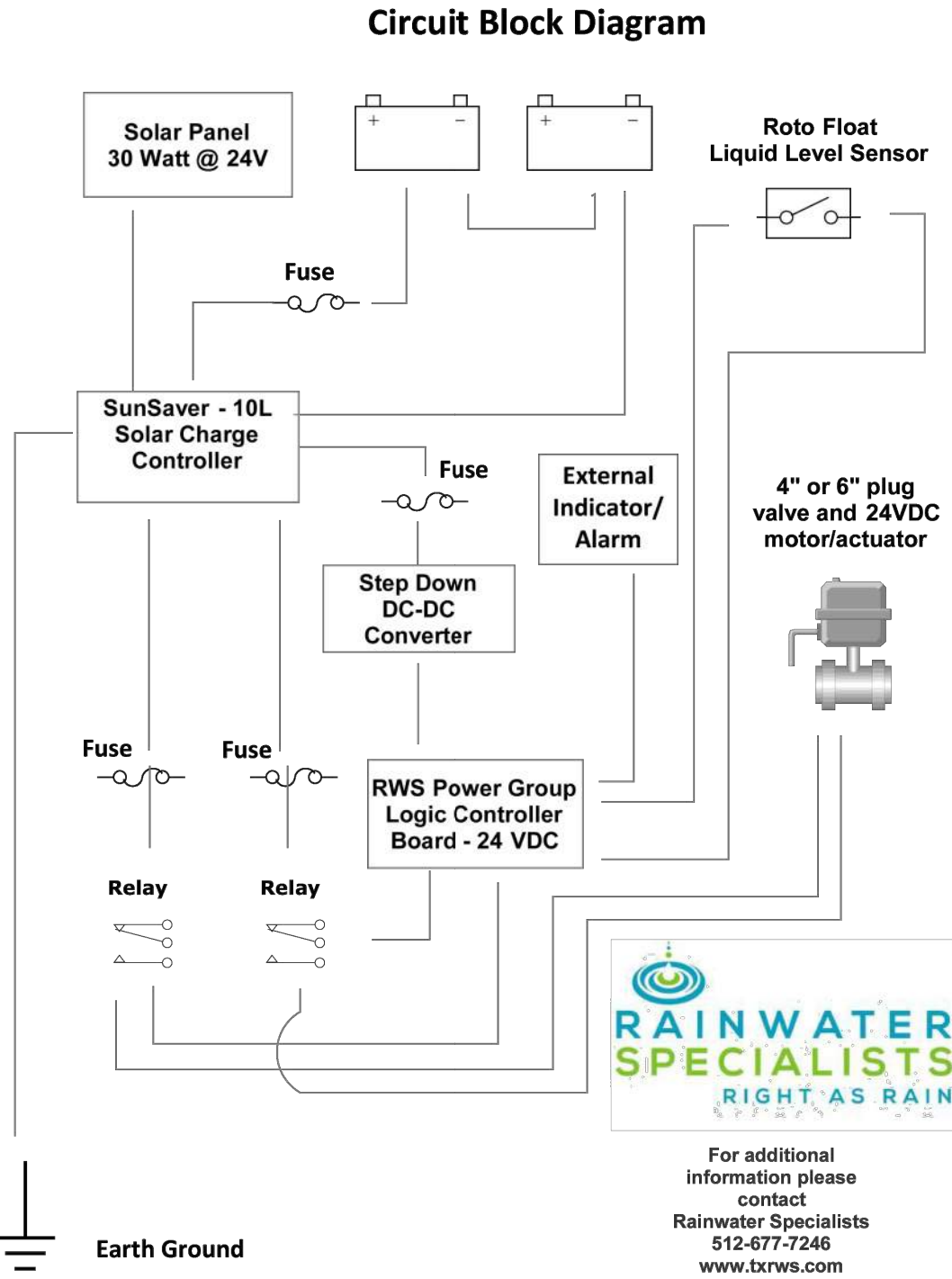
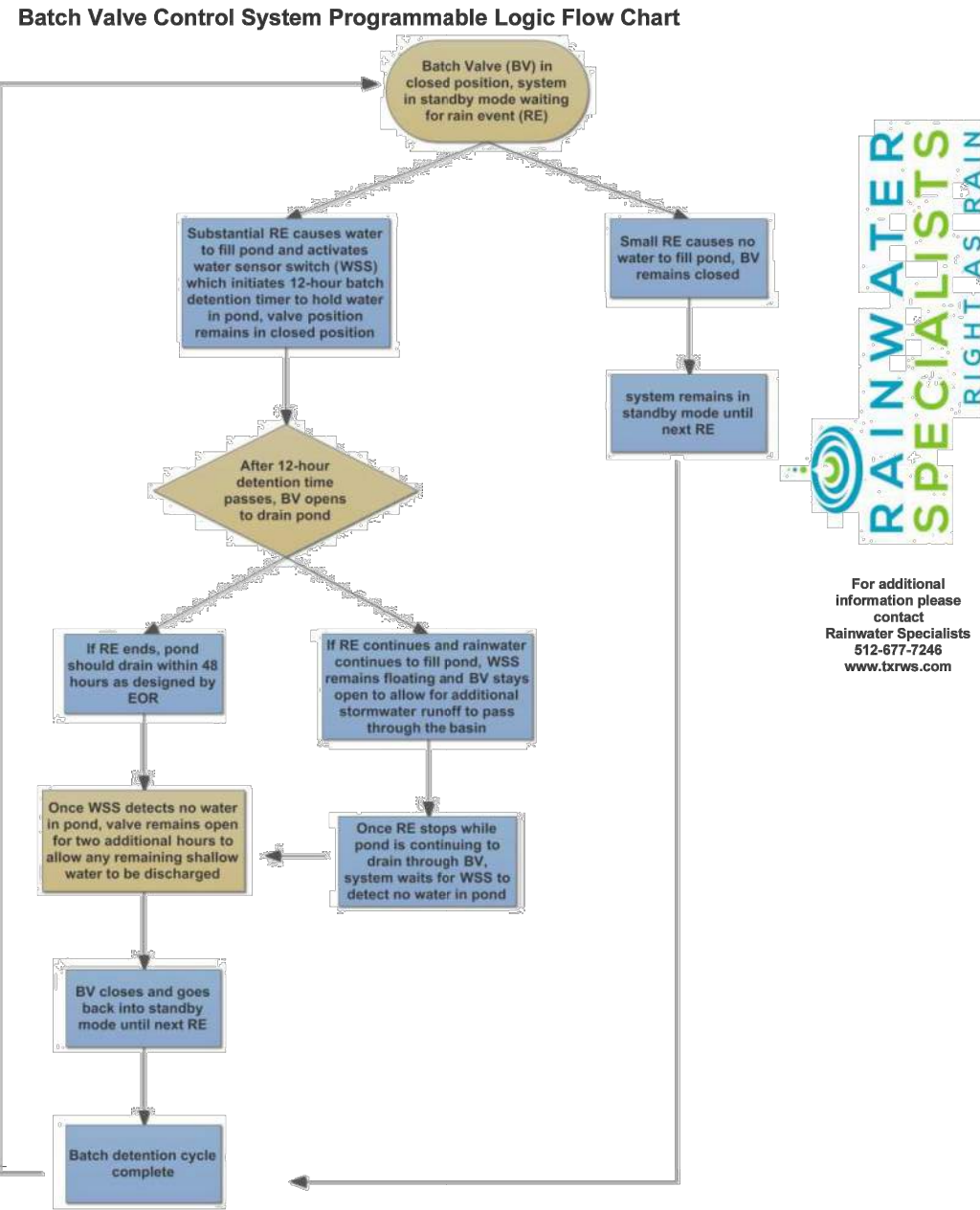
**Service Schedule:**


- Batteries – Sealed lead acid batteries can have a design life of anywhere from 3-5 years. Many factors affect service life of the battery, temperature being ones of those factors. Recommend replacement is every 3-5 years. Batteries can be tested annually to determine remaining life expectancy. Battery terminals to be inspected annually.
- Solar Panel(s) - Solar panels last 25-30 years. Annual inspection of the batch detention system should verify the surface of the solar panel is clean, facing south, is secure, and has no debris/trees blocking panel from sun.

**Quality Installation** - Rainwater Specialists, LLC agrees to perform in a good and workmanlike manner. All work detailed in the detailed scope of work sheet shall guarantee the installation of all products and material according to manufacturer's written instructions and construction industry standards.



For additional information please contact  
Rainwater Specialists  
512-677-7246  
www.brws.com





Rainwater Specialists, LLC  
15001 Crosscreek Dr.  
Austin, TX 78737  
www.rainwaterspecialists.com  
512-677-RAIN

### Batch Detention Pond Solar Specifications and Performance

System Power Consumption – 6.15 AH/day or ~75 wh/day average @ 8 valve turns maximum/week, sized for 5 days of autonomy

Control Board System – 24VDC PCB with error indication and remote cell output

Valve – 24 VDC @ 9 amps, one turn @ 16 seconds

Solar Panel - Solarland 30 Watt, 24 Volts polycrystalline solar module with junction box. Vmp: 34.4V, Imp: 0.87A, Voc: 43.2V, Isc: 0.96A. 21.3" x 20.08" x 1.18", 8.27 lbs.

Charge controller - SunSaver 10 10 Amp, 24 Volt solar charge controller with LVD 6" x 2.18" x 1.32"

Batteries - Universal Power Group UB12350(Group U1) 12V 35 ampH 7.68" x 5.16" x 6.14" 23.15lbs



### Electric Actuated Butterfly Valves

Ductile Iron Lug Body ASME 150#  
2" to 6" Pipe

SERIES 5673

**Features**

- Direct mount lug butterfly valve with ISO5211 mount
- Epoxy coated ductile iron body with 316 SS disc
- Unique wave line seat reduces torque and extends seal life
- Visual valve position indicator
- Rugged aluminum Type 4X weatherproof actuator
- Heavy duty motors with overload protection
- Thermostatically controlled anti-condensation heater
- Manual override with end of travel mechanical stops
- Two auxiliary position confirmation limit switches
- EPS - Electronic Positioning System models available
- Actuators CSA Listed per UL429 and CSA C22.2

**Applications**

EPDM seals typically used for on-off control of water and other compatible media. NBR (Buna-N) seals typically used for air, oil, vacuum and other compatible media. FPM (Viton) seals typically used for on-off control of hydrocarbons, oils and other compatible chemicals/media. Suitable for use with ANSI/ASME Class 125/150 pipe flanges. Actuators designed for 70% duty cycle.


**Operation**

On-Off electric actuated valve uses power-to-open and power-to-close, stays in the last known position with loss of power. On receipt of a continuous voltage signal, the motor runs and via a rugged all metal gear system rotates the ball 90°. The motor is automatically stopped by internal cams striking limit switches. On receipt of a reversing continuous signal, the motor turns in the opposite direction reversing the valve position. Power connections direct to terminal strip via included cable connector, or optional 1/2" NPT conduit adapters.

**Construction**

| Value Body                      | Epoxy coated ductile iron                                |
|---------------------------------|--|
| Disc                            | 316 stainless steel CF8M                                 |
| Disc Seal/Liner                 | EPDM, NBR (Buna-N) or FPM (Viton)                        |
| Stem/Stem Seals                 | 420 stainless steel / (2) o-ring, same material as seat  |
| Gear Drive                      | Heavy duty alloy steel and aluminum bronze, self locking |
| Actuator Enclosure              | Aluminum, polyester powder painted, Type 4X, IP67        |
| Visual Valve Position Indicator | Clear polycarbonate window, red/yellow open/closed       |
| Fasteners                       | Stainless Steel  |
| Auxiliary Limit Switches        | 2 x SPDT (125VAC/5A)                                     |

Doc: 5673.1121      Cornelius, N.C. • USA      www.valworx.com



### Electric Actuated Butterfly Valves

Ductile Iron Lug Body ASME 150#  
Features and P/T Chart

SERIES 5673

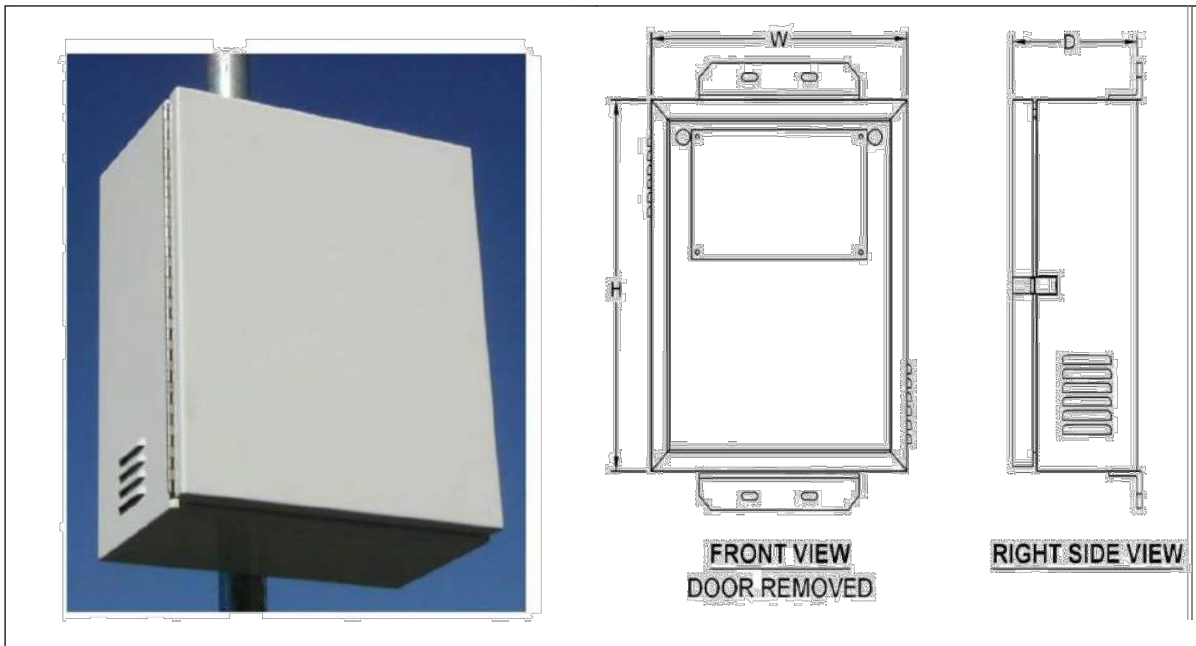
**Construction Features**

- Auxiliary Limit Switches(2) for confirming valve position, standard in on-off units
- Heavy duty integral motor design significantly reduces physical size of actuator
- Rugged polyester powder coated aluminum corrosion resistant Type 4X weather-proof enclosure
- Unique wave line seat reduces torque and extends seal life
- 316SS disc with 2-piece stem design enhances flow capacity, reduces pressure drop
- Anti-Condensation Heater
- Terminal Box, wire directly to terminal strip via included cable connectors, or optional 1/2" NPT conduit adapters
- Manual Override with protective cover
- Self-locking all metal gear train, no additional brake required
- Direct mount lug butterfly valve with standard ISO5211 mount, no brackets required
- Ductile iron body with epoxy coating

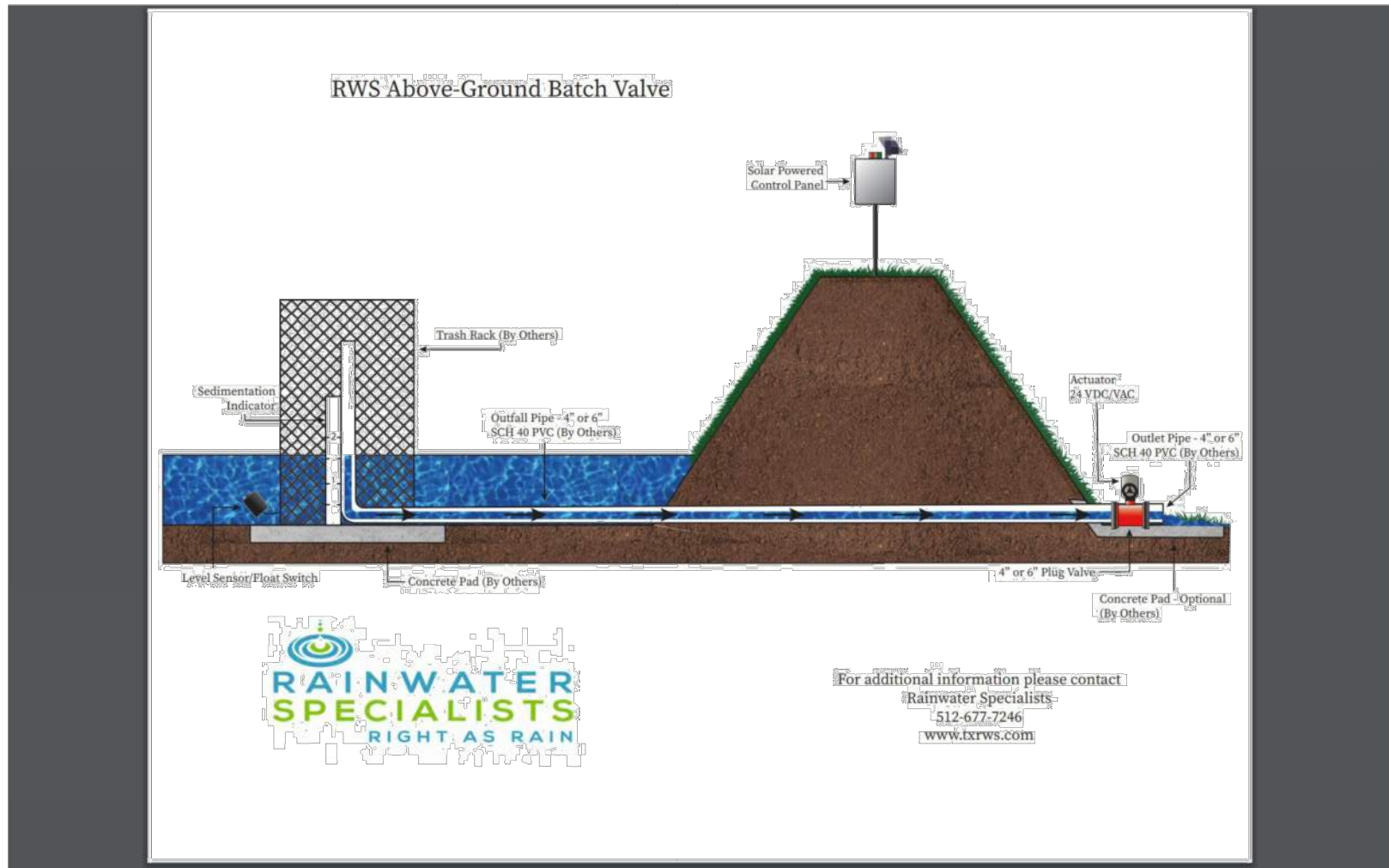
Visual Valve Position Indicator

Doc: 5673.1121      Cornelius, N.C. • USA      www.valworx.com

Ground Mount Controller and Battery Enclosure



- Standard boxes are fabricated from .125" thick 5052-H32 aluminum
- Heavy-duty stainless steel continuous
- Heavy-duty stainless steel continuous hinge
- Seams are continuously welded and then sanded smooth
- Adjustable tension stainless steel padlock hasp
- Removable component mounting plate
- Standard finish is a bright white polyester powder-coat inside and out
- Two 7/8" diameter wire holes
- Built to NEMA 3R specifications
- Filtered or screened ventilation louvers
- Hinged front door with PORON door gasket
- Supplied with u-bolts (when pole specified)



Architect / Engineer:



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Engineers • Consultants  
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Professional Seal  
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Phone: 817-255-1000  
www.hillcountrycivil.com

Stamp:



ROUND ROCK TX STAKE -  
LIBERTY HILL  
MEETINGHOUSE  
115 Bronco Blvd, Liberty Hills, TX 78642

Project for:  
THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS

| Date (D-M-Y) | Mark | Description | 50% CD |
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Project Number:  
HCC 013-04  
Plan Series:  
G250-MH-11  
Property Number:  
501-7850

Sheet Title:  
DETENTION  
POND DETAILS  
(2 OF 2)

Sheet:

C605



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

Characters shown in red are data entry fields.

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

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

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3:  $L_{M} = 27.2(A_{M} \times P)$ 

where:

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

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

|  |   |            |
|--|---|------------|
| County   | = | Williamson |
| Total project area included in plan                                  | = | 6.43 acres |
| Predevelopment impervious area within the limits of the plan         | = | 0.19 acres |
| Total post-development impervious area within the limits of the plan | = | 2.97 acres |
| Total post-development impervious cover fraction                     | = | 0.46       |
| P  | = | 32 inches  |

 $L_{M}$  TOTAL PROJECT = 2420 lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

|   |   |            |
|---|---|------------|
| Total drainage basin/outfall area                                       | = | 3.83 acres |
| Predevelopment impervious area within drainage basin/outfall area       | = | 0.00 acres |
| Post-development impervious area within drainage basin/outfall area     | = | 2.86 acres |
| Post-development impervious fraction within drainage basin/outfall area | = | 0.75       |
| $L_{M}$ THIS BASIN  | = | 2489 lbs.  |

**3. Indicate the proposed BMP Code for this basin.**Proposed BMP = **Batch Detention**  
Removal efficiency = 91 percent

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

**4. Calculate Maximum TSS Load Removed ( $L_R$ ) for this Drainage Basin by the selected BMP Type.**RG-348 Page 3-33 Equation 3.7:  $L_R = (BMP \text{ efficiency}) \times P \times (A_o \times 34.6 + A_p \times 0.54)$ 

where:

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

|       |   |            |
|-------|---|------------|
| $A_o$ | = | 3.83 acres |
| $A_i$ | = | 2.86 acres |
| $A_p$ | = | 0.97 acres |
| $L_R$ | = | 2897 lbs   |

**5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area**Desired  $L_{M}$  THIS BASIN = 2420 lbs.

F = 0.84

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

Calculations from RG-348

Pages 3-34 to 3-36

|                                     |   |                 |
|-------------------------------------|---|-----------------|
| Rainfall Depth                      | = | 1.26 inches     |
| Post Development Runoff Coefficient | = | 0.56            |
| On-site Water Quality Volume        | = | 9743 cubic feet |

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

|   |   |              |
|---|---|--------------|
| Off-site area draining to BMP             | = | 0.00 acres   |
| Off-site Impervious cover draining to BMP | = | 0.00 acres   |
| Impervious fraction of off-site area      | = | 0            |
| Off-site Runoff Coefficient               | = | 0.00         |
| Off-site Water Quality Volume             | = | 0 cubic feet |

Storage for Sediment = 1949

Total Capture Volume (required water quality volume(s) x 1.20) = 11692 cubic feet

0.27 Acre-ft

The following sections are used to calculate the required water quality volume(s) for the selected BMP.  
The values for BMP Types not selected in cell C-45 will show NA.

**7. Retention/Irrigation System**

Designed as Required in RG-348

Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

|                                     |   |                |  |
|-------------------------------------|---|----------------|--|
| Soil infiltration/permeability rate | = | 0.1 in/hr      | Enter determined permeability rate or assumed value of 0.1 |
| Irrigation area                     | = | NA square feet |  |
|                                     | = | NA acres       |  |

**8. Extended Detention Basin System**

Designed as Required in RG-348

Pages 3-46 to 3-51

Required Water Quality Volume for extended detention basin = NA cubic feet

**9. Filter area for Sand Filters**

Designed as Required in RG-348

Pages 3-58 to 3-63

**9A. Full Sedimentation and Filtration System**

Water Quality Volume for sedimentation basin = NA cubic feet

Minimum filter basin area = NA square feet

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

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

**9B. Partial Sedimentation and Filtration System**

Water Quality Volume for combined basins = NA cubic feet

Minimum filter basin area = NA square feet

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

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

**10. Bioretention System**

Designed as Required in RG-348

Pages 3-63 to 3-65

Required Water Quality Volume for Bioretention Basin = NA cubic feet



|   |                                |                    |
|---|--------------------------------|--------------------|
| <b>11. Wet Basins</b>   | Designed as Required in RG-348 | Pages 3-66 to 3-71 |
| Required capacity of Permanent Pool =   | NA                             | cubic feet         |
| Required capacity at WQV Elevation =  | NA                             | cubic feet         |
| Permanent Pool Capacity is 1.20 times the WQV<br>Total Capacity should be the Permanent Pool Capacity plus a second WQV.        |                                |                    |
| <b>12. Constructed Wetlands</b>   | Designed as Required in RG-348 | Pages 3-71 to 3-73 |
| Required Water Quality Volume for Constructed Wetlands =  | NA                             | cubic feet         |
| <b>13. AquaLogic™ Cartridge System</b>  | Designed as Required in RG-348 | Pages 3-74 to 3-78 |
| ** 2005 Technical Guidance Manual (RG-348) does not exempt the required 20% increase with maintenance contract with AquaLogic™. |                                |                    |
| Required Sedimentation chamber capacity =   | NA                             | cubic feet         |
| Filter canisters (FCs) to treat WQV =   | NA                             | cartridges         |
| Filter basin area (RUA <sub>f</sub> ) =   | NA                             | square feet        |
| <b>14. Stormwater Management StormFilter® by CONTECH</b>  |                                |                    |
| Required Water Quality Volume for Contech StormFilter System =  | NA                             | cubic feet         |

**THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPs / LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES**

|  |                                |                    |
|--|--------------------------------|--------------------|
| <b>15. Grassy Swales</b>   | Designed as Required in RG-348 | Pages 3-51 to 3-54 |
| Design parameters for the swale.   |                                |                    |
| Drainage Area to be Treated by the Swale = A =   | 1.87                           | acres              |
| Impervious Cover in Drainage Area =  | 0.15                           | acres              |
| Rainfall intensity = i =   | 1.1                            | in/hr              |
| Swale Slope =  | 0.01                           | ft/ft              |
| Side Slope (z) =   | 3                              |                    |
| Design Water Depth = y =   | 0.33                           | ft                 |
| Weighted Runoff Coefficient = C =  | 0.36                           |                    |
| A <sub>CS</sub> = cross-sectional area of flow in Swale =                                    | 2.09                           | sf                 |
| P <sub>w</sub> = Wetted Perimeter =  | 7.37                           | feet               |
| R <sub>hy</sub> = hydraulic radius of flow cross-section = A <sub>CS</sub> /P <sub>w</sub> = | 0.28                           | feet               |
| n = Manning's roughness coefficient =  | 0.2                            |                    |

**15A. Using the Method Described in the RG-348**

$$\text{Manning's Equation: } Q = \frac{1.49}{n} A_{CS} R_{hy}^{2/3} S^{0.5}$$

$$b = \frac{0.134 \times Q}{y^{2/3} S^{0.5}} \cdot zy = 5.26 \text{ feet}$$

$$Q = CIA = 0.75 \text{ cfs}$$

To calculate the flow velocity in the swale:

$$V \text{ (Velocity of Flow in the swale)} = Q/A_{CS} = 0.36 \text{ ft/sec}$$

To calculate the resulting swale length:

$$L = \text{Minimum Swale Length} = V \text{ (ft/sec)} \times 300 \text{ (sec)} = 107.24 \text{ feet}$$

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters must be modified and the solver run.

**15B. Alternative Method using Excel Solver**

|                        |          |           |       |
|------------------------|----------|-----------|-------|
| Design Q = CIA =       | 0.75 cfs |           |       |
| Manning's Equation Q = | 0.76 cfs | Error 1 = | -0.01 |
| Swale Width =          | 6.00 ft  |           |       |

Instructions are provided to the right (green comments).

|                  |           |
|------------------|-----------|
| Flow Velocity    | 0.36 ft/s |
| Minimum Length = | 107.24 ft |

Instructions are provided to the right (blue comments).

|                    |          |           |       |
|--------------------|----------|-----------|-------|
| Design Width =     | 6 ft     |           |       |
| Design Discharge = | 0.76 cfs | Error 2 = | -0.01 |
| Design Depth =     | 0.33 ft  |           |       |
| Flow Velocity =    | 0.32 cfs |           |       |
| Minimum Length =   | 97.48 ft |           |       |

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters may be modified and the solver run.  
If any of the resulting values still do not meet the design requirement set forth in RG-348, widening the swale bottom value may not be possible.

|  |                                |                    |
|--|--------------------------------|--------------------|
| <b>16. Vegetated Filter Strips</b>   | Designed as Required in RG-348 | Pages 3-55 to 3-57 |
| There are no calculations required for determining the load or size of vegetative filter strips.<br>The 80% removal is provided when the contributing drainage area does not exceed 72 feet (direction of flow) and the sheet flow leaving the impervious cover is directed across 15 feet of engineered filter strips with maximum slope of 20% or across 50 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20%. |                                |                    |
| If vegetative filter strips are proposed for an interim permanent BMP, they may be sized as described on Page 3-56 of RG-348.  |                                |                    |

|   |                                |  |
|---|--------------------------------|--|
| <b>17. Wet Vaults</b>   | Designed as Required in RG-348 | Pages 3-30 to 3-32 & 3-79  |
| Required Load Removal Based upon Equation 3.3 =   | NA                             | lbs  |
| First calculate the load removal at 1.1 in/hour   |                                |  |
| RG-348 Page 3-30 Equation 3.4: Q = CIA  |                                |  |
| C = runoff coefficient for the drainage area =  | 0.58                           | C = Runoff Coefficient = 0.546 (IC) <sup>2</sup> + 0.328 (IC) + 0.03 |
| i = design rainfall intensity =   | 1.1 in/hour                    |  |
| A = drainage area in acres =  | 1                              | acres  |
| Q = flow rate in cubic feet per second =  | 0.64                           | cubic feet/sec   |
| RG-348 Page 3-31 Equation 3.5: V <sub>OH</sub> = Q/A  |                                |  |
| Q = Runoff rate calculated above =  | 0.64                           | cubic feet/sec   |
| A = Water surface area in the wet vault =   | 150                            | square feet  |
| V <sub>OH</sub> = Overflow Rate =   | 0.00                           | feet/sec   |
| Percent TSS Removal from Figure 3-1 (RG-348 Page 3-31) =  | 53                             | percent  |
| Load removed by Wet Vault =   | #VALUE!                        | lbs  |
| If a bypass occurs at a rainfall intensity of less than 1.1 in/hours<br>Calculate the efficiency reduction for the actual rainfall intensity rate |                                |  |
| Actual Rainfall Intensity at which Wet Vault bypass Occurs =  | 0.5                            | in/hour  |
| Fraction of rainfall treated from Figure 3-2 RG-348 Page 3-32 =   | 0.75                           | percent  |
| Efficiency Reduction for Actual Rainfall Intensity =  | 0.83                           | percent  |
| Resultant TSS Load removed by Wet Vault =   | #VALUE!                        | lbs  |

|  |                                |                    |
|--|--------------------------------|--------------------|
| <b>18. Permeable Concrete</b>                                | Designed as Required in RG-348 | Pages 3-79 to 3-83 |
| PERMEABLE CONCRETE MAY ONLY BE USED ON THE CONTRIBUTING ZONE |                                |                    |

To solve for bottom width of the trapezoidal swale (b) using the Excel solver:  
Excel can simultaneously solve the "Design Q" (C217) vs "Manning's Q" (C219) by varying the "Swale Width" (C220).  
The required "Swale Width" occurs when the "Design Q" = "Manning's Q".

First, highlight Cell F219 (Error 1 value). The equation showing in the fx screen for Cell F219 should be "= \$C\$217-\$C\$219".  
Then click on "Tools" and "Solver". The "Solver Parameters" screen pops up.  
The value in the "Set Target cell" should be \$F\$219 "Error 1 =".  
The value in the "By Changing Cells" should be \$C\$220 "Swale Width".  
Click on solve.

The resulting "Swale Width" must be less than 10 feet to meet the requirements of the TGM.  
If the resulting "Swale Width" exceeds 10 feet then the design parameters must be revised and the solver run again.

If there is not the option for "Solver" under "Tools"  
Click on "Tools" and "Add Ins" and then check "Solver Add-in"  
Then proceed as instructed above.

If you would like to increase the bottom width of the trapezoidal swale (b):  
Excel can simultaneously solve the "Design Q" (C217) vs "Design Discharge" (C232) by varying the "Design Depth" (C233).  
The required "Design Depth" for a 10-foot bottom width occurs when the "Design Q" (C217) = the "Design Discharge" (C232).

First set the desired bottom width in Cell C231.  
Highlight Cell F232. The equation showing in the fx screen for Cell F232 should be "= \$C\$217-\$C\$232".

Click on "Tools" and "Solver". The "Solver Parameters" screen pops up.  
The value in the "Set Target cell" should be \$F\$232 "Error 2".  
The value in the "By Changing Cells" should be \$C\$233 "Design Depth".  
Click on solve.

The resulting "Design Depth" must be equal to or less than 0.33 feet to meet the requirements of the TGM.  
If the resulting "Design Depth" exceeds 0.33 feet then the design parameters must be revised and the solver run again.

First set the desired bottom width in Cell C231.  
Highlight Cell F232. The equation showing in the fx screen for Cell F232 should be "= \$C\$217-\$C\$232".  
Click on "Tools" and "Solver". The "Solver Parameters" screen pops up.  
The value in the "Set Target cell" should be \$F\$232 "Error 2".  
The value in the "By Changing Cells" should be \$C\$233 "Design Depth".  
Click on solve.

The resulting "Design Depth" must be equal to or less than 0.33 feet to meet the requirements of the TGM.  
If the resulting "Design Depth" exceeds 0.33 feet then the design parameters must be revised and the solver run again.

Michael E. Barrett, Ph.D., P.E. recommended that the coefficient for  $E_2$  be changed from 0.5 to 0.65 on May 3, 2006

$$E_{TOT} = [1 - ((1 - E_1) \times (1 - 0.65E_2) \times (1 - 0.25E_3))] \times 100 = 93.36 \text{ percent} \quad \text{NET EFFICIENCY OF THE BMPs IN THE SERIES}$$
$$\text{EFFICIENCY OF FIRST BMP IN THE SERIES} = E_1 = 85.00 \text{ percent}$$
$$\text{EFFICIENCY OF THE SECOND BMP IN THE SERIES} = E_2 = 70.00 \text{ percent}$$
$$\text{EFFICIENCY OF THE THIRD BMP IN THE SERIES} = E_3 = 75.00 \text{ percent}$$

THEREFORE, THE NET LOAD REMOVAL WOULD BE:  
( $A_1$  AND  $A_2$  VALUES ARE FROM SECTION 3 ABOVE)

$$L_R = E_{TOT} \times P \times A_1 \times 34.6 \times A_2 \times 0.54 = 2971.91 \text{ lbs}$$

**20. Stormceptor**

|   |         |                 |
|---|---------|-----------------|
| Required TSS Removal in BMP Drainage Area=  | NA      | lbs             |
| Impervious Cover Overtreatment=   | 0.0000  | ac              |
| TSS Removal for Uncaptured Area =   | 0.00    | lbs             |
| <b>BMP Sizing</b>   |         |                 |
| Effective Area =  | NA      | EA              |
| Calculated Model Size(s) =  | #N/A    |                 |
| Actual Model Size (if multiple values provided in Calculated Model Size or if you are choosing a larger model size) = | 0       | Model Size      |
| Surface Area =  | #N/A    | ft <sup>2</sup> |
| Overflow Rate =   | #VALUE! | V <sub>ov</sub> |
| Rounded Overflow Rate =   | #VALUE! | V <sub>ov</sub> |
| BMP Efficiency % =  | #VALUE! | %               |
| L <sub>o</sub> Value =  | #VALUE! | lbs             |
| TSS Load Credit =   | #VALUE! | lbs             |
| Is Sufficient Treatment Available? (TSS Credit ≥ TSS Uncapt.)   | #VALUE! |                 |
| TSS Treatment by BMP (LM + TSS Uncapt.) =   | #VALUE! |                 |

**21. Vortech**

|   |         |                 |
|---|---------|-----------------|
| Required TSS Removal in BMP Drainage Area=                    | NA      | lbs             |
| Impervious Cover Overtreatment=                               | 0.0000  | ac              |
| TSS Removal for Uncaptured Area =                             | 0.00    | lbs             |
| <b>BMP Sizing</b>   |         |                 |
| Effective Area =  | NA      | EA              |
| Calculated Model Size(s) =                                    | #N/A    |                 |
| Actual Model Size (if choosing larger model size) =           | Vx1000  | Pick Model Size |
| Surface Area =  | 7.10    | ft <sup>2</sup> |
| Overflow Rate =   | #VALUE! | V <sub>ov</sub> |
| Rounded Overflow Rate =                                       | #VALUE! | V <sub>ov</sub> |
| BMP Efficiency % =  | #VALUE! | %               |
| L <sub>o</sub> Value =  | #VALUE! | lbs             |
| TSS Load Credit =   | #VALUE! | lbs             |
| Is Sufficient Treatment Available? (TSS Credit ≥ TSS Uncapt.) | #VALUE! |                 |
| TSS Treatment by BMP (LM + TSS Uncapt.) =                     | #VALUE! |                 |

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

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**Attachment N: Inspection, Maintenance, Repair, Retrofit Plan**

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**Batch Detention Ponds:*****Pest Management:***

An Integrated Pest Management Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides. It should also address the maintenance of proper drainage for the site through the batch detention ponds.

***Seasonal Mowing and Lawn Care:***

The basin, basin side-slopes and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

***Inspection and Maintenance/Repair:***

Inspections should take place a minimum of twice a year, (once during or immediately following wet weather) to evaluate facility operation. When possible, inspections should be conducted during wet weather to determine if the pond is meeting the target detention times. In particular, the extended detention control device should be regularly inspected for evidence of clogging or conversely for too rapid a release. The upper stage pilot channel, if any and its flow path to the lower stage should be checked for erosion problems. During each inspection, erosion areas inside and downstream of the BMP should be identified and repaired or revegetated immediately.

***Debris and Litter Removal:***

Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

***Erosion Control:***

The pond side slopes, emergency spillway, and embankment all may periodically suffer from slumping and erosion, although this should not occur often if the soils are properly compacted during construction. Regrading and revegetation may be required to correct the problems. Similarly, the channel connecting the upper stage with a lower stage may periodically need to be replaced or repaired.

***Structural Repairs:***

With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. These repairs should include patching of cracked concrete, sealing of voids, and removal of vegetation from cracks and joints. The various inlet/outlet and riser works in a basin will eventually deteriorate and must be replaced.

***Nuisance Control:***

Standing water (not desired in an extended detention basin) or soggy conditions within the lower stage of the basin can create nuisance conditions for nearby residents. Odors, mosquitos, weeds, and litter are all occasionally perceived to be problems. Most of these problems are generally a sign that regular inspections and maintenance are not performed.

***Sediment Removal:***

When properly designed, dry detention extended detention basins will accumulate quantities of sediment over time. Sediment accumulation is a serious maintenance concern in extended detention basins for several reasons. First, the sediment generally reduces available stormwater management storage capacity within the basin. Second, unlike wet extended detention basins, sediment accumulating can make dry extended basins very unsightly. Third and perhaps most importantly, sediment tends to accumulate around the control device. Sediment deposition increases the risk that the orifice will become clogged and gradually reduces storage capacity reserved for pollutant removal. Sediment can also be resuspended if allowed to accumulate over time and escape through the hydraulic control structure to downstream channels and streams. For these reasons, accumulated sediment inside the basin needs to be removed from the lower stage when sediment buildup fills 20% of the volume of the basin or at least every 10 years.

***Public Education:***

The delegation of maintenance responsibilities is for the landowner. However, localities should provide an active educational program to encourage the recommended practices. Landscapers, contractors, and other operators for the site will also need to be educated on suitable practices for lawn upkeep throughout the year with a limited number of pesticides or fertilizer.



**Detention Pond/BMP Records**

- ☐ **Inspection** Date: \_\_\_\_\_  
Type of Inspection: \_\_\_\_\_  
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature: \_\_\_\_\_ (Inspector)
- ☐ **Maintenance** Date: \_\_\_\_\_  
Work Performed: \_\_\_\_\_  
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature: \_\_\_\_\_ (Maintenance Personnel)
- ☐ **Other** Date: \_\_\_\_\_  
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature: \_\_\_\_\_ (Title:) \_\_\_\_\_



**Responsibility of Maintenance**

I Colton Taylor  
Print Name


Authorized Agent  
Title – Owner/President/Other

The Church Of Jesus Christ Of Latter-Day Saints  
Corporation/Partnership/Entity Name

Agree to assume the responsibility of maintaining the permanent BMPs constructed as part of the Pecan Park Bulverde development in accordance with the rules and regulations of the Texas Commission on Environmental Quality (TCEQ).

I also understand that:

1. I am 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.
2. 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.

 04/29/2025  
Applicant's Signature Date

Contact Person: David Scott

Entity: The Church Of Jesus Christ Of Latter-Day Saints

Mailing Address: 50 East North Temple Street, 12th Floor

City, State, Zip: Salt Lake City, UT 84150

Telephone: (385)315-0555



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## **Attachment O: Pilot-Scale Field Testing Plan**

N/A



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

**Attachment P: Measures for Minimizing Surface Stream Contamination**

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Upon approval of this plan, the Batch Detention Pond, traditionally designed, will be constructed before the proposed Liberty Hill Meetinghouse development starts. Therefore, any storm water runoff leaving the site will be treated per TCEQ RG-348, and no surface stream contamination is anticipated.



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## **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: Ross Corder, PE

Date: 03/25/2025

Signature of Customer/Agent:



Regulated Entity Name: Liberty Hill Meetinghouse

## 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: South Fork San Gabriel River

### ***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.



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## **Attachment A: Spill Response Actions**

### **Attachment A: Spill Response Actions**

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Contractors working onsite with materials which could potentially cause pollution shall implement the following measures to prevent stormwater pollution.

#### **Education of Employees or Subcontractors Who Handle Materials Which Can Cause Pollution**

- Employees should know 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 a spill must be reported to the TCEQ. Information is available in 30 TAC 327.4 and 40 CFR 302.4.
- Educate employees and subcontractors on the potential dangers to humans and the environment from spills and leaks and provide training in spill prevention and cleanup. Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- Establish a continuing education program to indoctrinate new employees, who will use or handle potential pollutants.
- Provide for a superintendent or representative to oversee and enforce proper spill prevention and control measures.

#### **General Measures**

- To the extent that work can be accomplished safely, spills of oil, petroleum products, and substances listed under 40 CFR part 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- Store hazardous materials and waste in covered containers and protect from vandalism.
- Place spill cleanup materials where it will be readily accessible.
- Spills should be covered and protected from stormwater runoff during rainfall to the extent that it doesn't compromise clean-up activities.
- Do not bury spills onsite.
- 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.
- 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.
- Contain contaminated water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- 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.

- 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**

- Clean up leaks and spills immediately, or as soon as it is safely practical.
- Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent materials 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.
- Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly.

### **Minor Spills**

- Minor spills such as small quantities of oil, gasoline, paint, etc, should be controlled by the first responder at the discovery of the spill.
- Use absorbent materials on small spills rather than hosing down or burying the spill.
- Absorbent materials should be promptly removed and disposed of properly.
- Follow the practice below for a minor spill:
  - Contain the spread of the spill.
  - Recover spilled materials.
  - Clean the contaminated area and properly dispose of contaminated materials.

### **Semi-Significant Spills**

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

Spills should be cleaned up immediately, or as soon as safely practical

- Contain spread of the spill.
- Notify the project foreman immediately.
- 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 absorbent materials and do not let the spill spread widely.
- If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- If the spill occurs during rain, cover spill with tarps or other materials to prevent contaminating runoff.

**Significant/Hazardous Spills**

- 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 40CFR parts 110, 119 and 302, the contractor should notify the National Response Center at (800) 424-8802.
- Notification should first be made by telephone and followed up with a written report. The services of a spill 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.
- Other agencies which may need to be contacted include, but are not limited to, City, Police Department, County Sheriff Office, Fire Departments, etc.

**Vehicle and Equipment Maintenance**

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

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



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

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### **Asphalt products used on this project**

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

### **Oil, grease fuel and hydrocarbon fluid contamination from construction equipment and vehicle drippings.**

- Preventative measures
  - Vehicle maintenance, when possible, will be performed within the construction staging area.
  - Construction vehicles and equipment shall be checked regularly for leaks and repaired immediately.

### **Accidental leaks or spills of oil, petroleum products and substances listed under 40 CFR parts 110, 117, and 302 used or stored temporarily on site.**

- Preventative measures
  - Contractor to incorporate regular safety meetings, a discussion of spill prevention and appropriate disposal procedures.
  - Contractor's superintendent or representative overseer shall enforce proper spill prevention and control measures.
  - Hazardous material and waste shall be stored in covered containers and protected from vandalism.
  - A stockpile of spill cleanup materials shall be stored on site where it will be readily available.

**Miscellaneous trash and litter from construction workers and material wrappings.**

- Preventative measures
  - Trash containers will be placed throughout the site to encourage proper trash disposal.

**Construction Debris**

- Preventative measures
  - Construction debris will be monitored daily by the site contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case-by-case basis.

**Spills/Overflow of waste from portable toilets**

- Preventative measures
  - Portable toilets will be placed away from high traffic vehicular areas and storm drain inlets.
  - Portable toilets will be placed on a level ground surface.
  - Portable toilets will be inspected regularly for leaks and will be serviced and sanitized at time intervals that will maintain sanitary conditions.



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

### **Attachment C: Sequence of Major Construction Activities**

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The sequence of major construction activities that will disturb earth/soil of the proposed site will be completed in two stages. Initially, the site will be cleared and grubbed of existing vegetation to prepare for the proposed site plan. This stage will include installation of temporary erosion controls. Temporary controls include temporary construction entrance, silt fence, and concrete washout pit. The second stage will include the construction of buildings, parking, drives, utilities, Batch Detention Basin, landscaping, and site cleanup. Once the site is fully stabilized with vegetation back in place, the temporary erosion controls may be removed. Both stages will disturb approximately 4 acres of land.

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

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

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**7a 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.**

Upgradient flows are intercepted and diverted by use of swales around the proposed BMPs. Therefore, there are no significant upgradient flows that impact the site and no proposed BMPs are planned specifically for upgradient flows. The proposed onsite batch detention pond is sized to treat all onsite flows and impervious cover.

**7b 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.**

Site preparations will disturb the largest amount of soil. Therefore, before any of this work can begin, the clearing and grading contractor will be responsible for the installation of all on-site control measures. The methodology for pollution prevention of on-site stormwater will include:

- Erection of silt fence along downgradient boundary of construction activities for temporary erosion and sedimentation controls.
- Installation of stabilized construction entrance/exits to reduce the dispersion of sediment from the site.
- Installation of concrete truck washout.
- Installation of construction staging areas.

**7c A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.**

Temporary measures are intended to provide a method of controlling and slowing the flow of runoff from the construction site. By utilizing silt fence staged down gradient and along flow paths, will allow sediment and suspended solids to settle out of stormwater flows and be captured onsite. By containing the sediment and suspended solids within the site, they will not enter the aquifer, surface streams and/or sensitive features that may exist downstream of the site.

**7d 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**

BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMPs. The BMPs are providing settlement of suspended solids and containment onsite, but stormwater flows will continue on their natural drainage path. Features discovered during construction will be reported and assessed in accordance with applicable regulations.



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## **Attachment E: Request to Temporarily Seal a Feature**

N/A





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## **Attachment F: Structural Practices**

### **Attachment F: Structural Practices**

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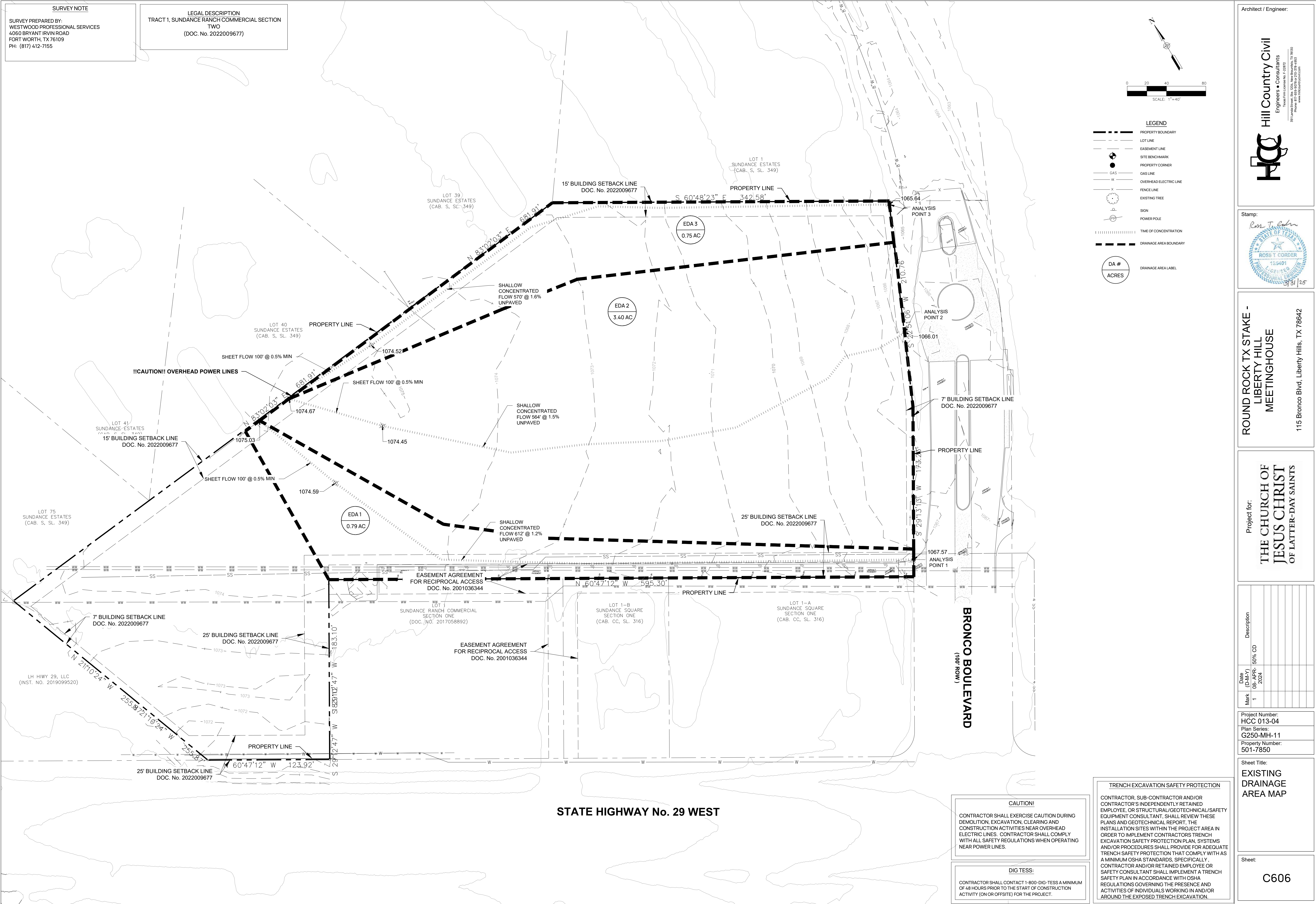
The structural practices listed below are shown on the Erosion Control Plans and are listed on Attachment D of the Temporary Controls Section of the CZP.

- A stabilized construction entrance with washout pit will be constructed at all locations where vehicular traffic enters and leaves the site. This will reduce sediments which leave the site and are tracked or fall onto adjacent roadways. Currently there are two proposed stabilized construction entrance locations.
- A concrete truck washout will be located next to the south stabilized construction entrance to prevent pollutants to stormwater from concrete waste.
- Silt fencing will be installed adjacent to any drainage way which receives sheet flow from upgradient-disturbed areas and along the side slope perimeter of disturbed areas.
- Sandbags filled with washed pea gravel will be used at storm drainage inlets prior to stabilization of the drainage areas.



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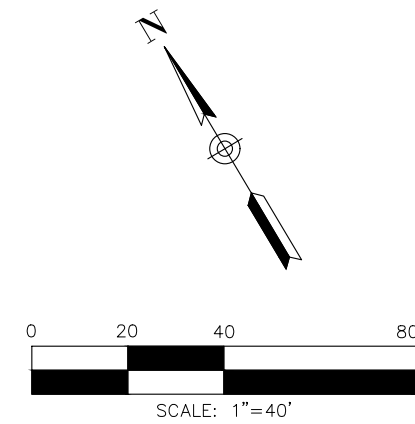
## **Attachment G: Drainage Area Map**





SURVEY PREPARED BY:  
WESTWOOD PROFESSIONAL SERVICES  
4060 BRYANT IRVIN ROAD  
FORT WORTH, TX 76109  
PH: (817) 412-7155

LEGAL DESCRIPTION  
TRACT 1, SUNDANCE RANCH COMMERCIAL SECTION  
TWO  
(DOC. No. 2022009677)




**Hill Country Civil**  
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Texas Firm License No. F-23872

591 Landal Street, Ste. 1206, New Braunfels, TX 78130  
Phone: 817-261-1100 • Fax: 817-261-1153  
www.HillCountryCivil.com

Ross T. Corder



3/31/25

**ROUND ROCK TX STAKE -  
LIBERTY HILL  
MEETINGHOUSE**

Project for:

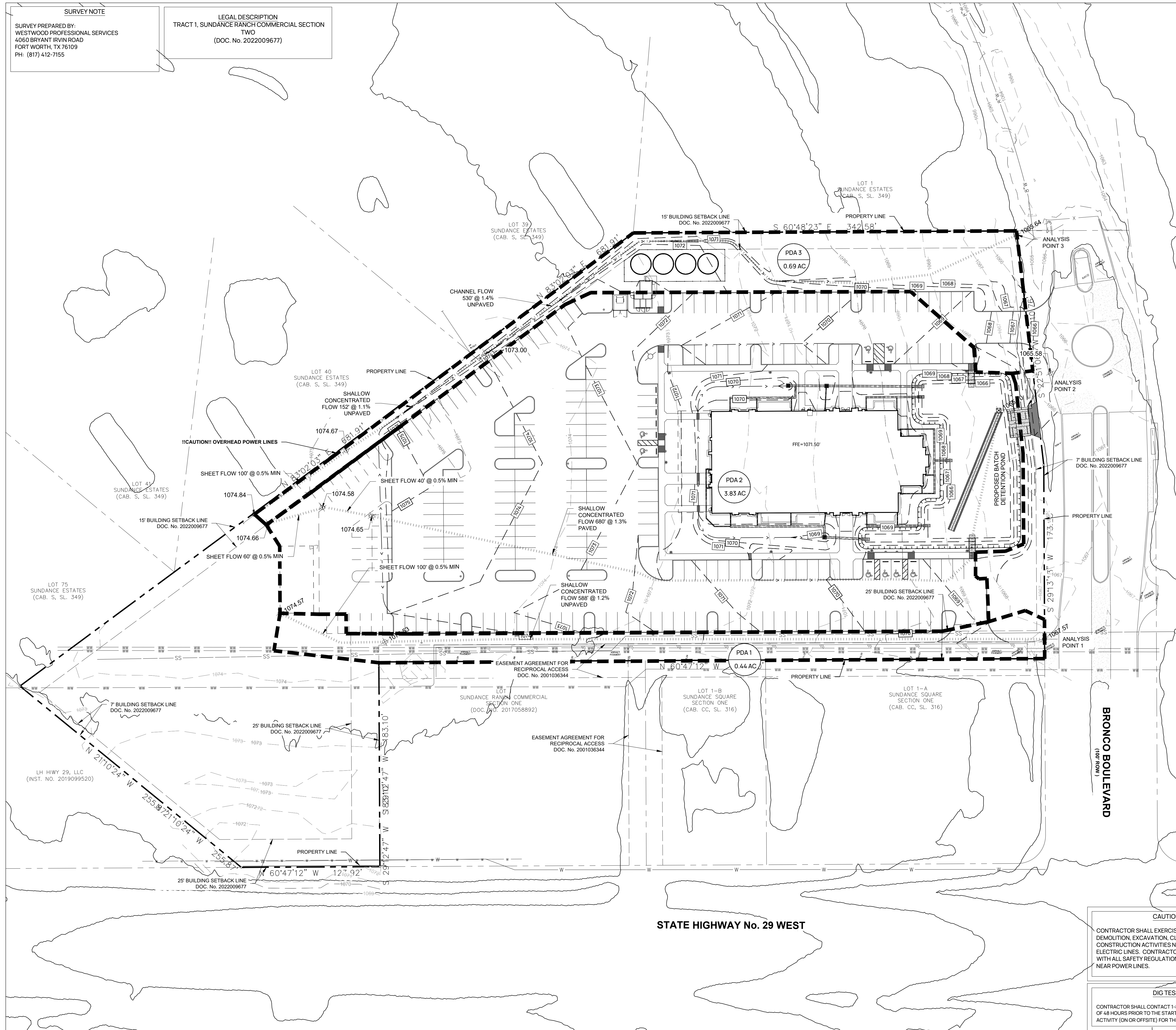
**THE CHURCH OF  
JESUS CHRIST  
OF LATTER-DAY SAINTS**

| Mark | Date<br>(D-M-Y)  | Description |
|------|------------------|-------------|
| 1    | 08- APR-<br>2024 | 50% CD      |
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|-----------------|------------|
| Project Number: | HCC 013-04 |
| Plan Series:    | G250-MH-11 |
| Property Number | 501-7850   |

PROPOSED  
DRAINAGE  
AREA MAP

C607



|  |                        |
|--|------------------------|
|  | PROPERTY BOUNDARY      |
|  | LOT LINE               |
|  | EASEMENT LINE          |
|  | SITE BENCHMARK         |
|  | PROPERTY CORNER        |
|  | GAS LINE               |
|  | OVERHEAD ELECTRIC LINE |
|  | FENCE LINE             |
|  | EXISTING TREE          |
|  | SIGN                   |
|  | POWER POLE             |
|  | TIME OF CONCENTRATION  |
|  | DRAINAGE AREA BOUNDARY |



DRAINAGE AREA LABEL

CONTRACTOR, SUB-CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR STRUCTURAL/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND GEOTECHNICAL REPORT, THE INSTALLATION SITES WITHIN THE PROJECT AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION PLAN, SYSTEMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS, SPECIFICALLY CONTRACTOR AND/OR RETAINED EMPLOYEE OR SAFETY EQUIPMENT CONSULTANT, SHALL IMPLEMENT A TRENCH SAFETY PLAN IN ACCORDANCE WITH OSHA REGULATIONS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND/OR AROUND THE EXPOSED TRENCH EXCAVATION.

CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION, EXCAVATION, CLEARING AND CONSTRUCTION ACTIVITIES NEAR OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COMPLY WITH ALL SAFETY REGULATIONS WHEN OPERATING NEAR POWER LINES.

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITY (ON OR OFFSITE) FOR THE PROJECT.





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

N/A

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

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**Attachment I: Inspection and Maintenance for BMPs**

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The following list of items outlines and dictates Inspection and Maintenance for BMPs practices. Inspection and maintenance guidelines come from TCEQ RG-348.

In addition to these measures the contractor will be subject to the provisions of the TCEQ General Permit Number TXR 150000 relating to discharges from construction activities.

**Temporary Construction Entrance/Exit**

1. The entrance should be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repairs and/or cleanout of any measures used to trap sediment.
2. All sediment spilled, dropped, washed, or tracked onto public rights-of-way should be removed immediately by contractor.
3. When necessary, wheels should be cleaned to remove sediment prior to entrance on to public right-of-way.
4. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin
5. All sediment should be prevented from entering any storm drain, ditch, or water course by using approved methods.

**Silt Fence**

1. Inspect all fencing weekly, and after any rainfall.
2. Remove sediment when buildup reaches 6 inches.
3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
4. Replace or repair any sections crushed or collapsed during construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot to where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
5. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

**Inlet Protection Barrier**

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





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## **Attachment J: Schedule of Interim and Permanent Soil Stabilization Practices**

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**Attachment J: Schedule of Interim and Permanent Soil Stabilization Practices**

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Onsite construction activities shall be conducted in accordance with the Erosion Control Plan for the project which includes the provisions of the TPDES General Permit TXR150000.

Interim on-site stabilization measures will include minimizing soil disturbances by exposing the smallest practical area of land required for the shortest duration and maximizing the use of natural vegetation. All disturbed soil will be stabilized as per project specifications in accordance with TCEQ Technical Guidance Manual RG-348 (2005).

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

Interim Stabilization Measures will include one or more of the following methods.

1. Temporary Vegetation
2. Installation of blankets or matting material
3. Hydraulic Mulch
4. Sod

The interim and permanent stabilization will be installed in accordance with the standard specifications for the county or city having jurisdiction over the project, whichever is more stringent. If the governing entity does not have specifications for these items, the work shall be completed in compliance with the procedures and specifications outlined in the current Technical Guidance Manual published by the TCEQ.

Permanent Stabilization measures will include one or more of the following methods.

1. Permanent Vegetation including landscape planting with trees, shrubs, or ground cover.
2. Installation of blankets or matting material
3. Hydromulch
4. Grass Sodding
5. Rock or concrete riprap

A copy of the Erosion Control Plan is attached.



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## **Agent Authorization**

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

I Colton Farr Taylor  
Print Name

Authorized Agent  
Title - Owner/President/Other

The Church Of Jesus Christ Of Latter-Day Saints, ,  
Corporation/Partnership/Entity Name

have authorized Ross Corder, PE  
Print Name of Agent/Engineer

of Hill Country Civil  
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:



Applicant's Signature

05/24/2024

Date

THE STATE OF UT §

County of \_\_\_\_\_ §

BEFORE ME, the undersigned authority, on this day personally appeared Colton Taylor 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 24 day of May, 2024.



NOTARY PUBLIC

Meehan Alders  
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 03/25/2026



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## Application Fee Form

# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Liberty Hill Meeting House

Regulated Entity Location: 115 Bronco Blvd. Liberty Hill, TX 78642

Name of Customer: The Church of Jesus Christ of Latter-Day Saints

Contact Person: David Scott

Phone: (385) 315-0555

Customer Reference Number (if issued): CN \_\_\_\_\_

Regulated Entity Reference Number (if issued): RN \_\_\_\_\_

### Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

### San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ 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

| Type of Plan  | Size       | Fee Due  |
|---|------------|----------|
| Water Pollution Abatement Plan, Contributing Zone<br>Plan: One Single Family Residential Dwelling       | Acres      | \$       |
| Water Pollution Abatement Plan, Contributing Zone<br>Plan: Multiple Single Family Residential and Parks | Acres      | \$       |
| Water Pollution Abatement Plan, Contributing Zone<br>Plan: Non-residential                              | 6.43 Acres | \$ 5,000 |
| Sewage Collection System  | L.F.       | \$       |
| Lift Stations without sewer lines   | Acres      | \$       |
| Underground or Aboveground Storage Tank Facility  | Tanks      | \$       |
| Piping System(s)(only)  | Each       | \$       |
| Exception   | Each       | \$       |
| Extension of Time   | Each       | \$       |

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

Date: 04-25-24

# Application Fee Schedule

Texas Commission on Environmental Quality

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

## Water Pollution Abatement Plans and Modifications

### Contributing Zone Plans and Modifications

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

### Organized Sewage Collection Systems and Modifications

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

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

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

### Exception Requests

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

### Extension of Time Requests

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





Hill Country Civil  
Engineers • Consultants

## Core Data Form



# TCEQ Core Data Form

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

## SECTION I: General Information

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

## SECTION II: Customer Information

|   |  |   |  |   |    |
|---|--|---|--|---|----|
| 4. General Customer Information   |  | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) |  | 4/25/2024   |    |
| <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)  |  |   |  |   |    |
| The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).                |  |   |  |   |    |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)   |  |   |  | If new Customer, enter previous Customer below:                     |    |
| The Church of Jesus Christ of Latter-day Saints   |  |   |  |   |    |
| 7. TX SOS/CPA Filing Number   |  | 8. TX State Tax ID (11 digits)                                  |  | 9. Federal Tax ID (9 digits)<br>87-0234341                          |    |
| 10. DUNS Number (if applicable)   |  |   |  |   |    |
| 11. Type of Customer:   |  | <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:                                     |    |
| 12. Number of Employees   |  |   |  | 13. Independently Owned and Operated?                               |    |
| <input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher                      |  |   |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |    |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following   |  |   |  |   |    |
| <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:   |  |   |  |   |    |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant  |  |   |  |   |    |
| 15. Mailing Address:  |  | The Church of Jesus Christ of Latter-Day Saints                 |  |   |    |
|   |  | 50 E North Temple St, COB-12                                    |  |   |    |
| City  |  | Salt Lake City  |  | State   | UT |
| ZIP   |  | 84150   |  | ZIP + 4   |    |
| 16. Country Mailing Information (if outside USA)  |  |   |  | 17. E-Mail Address (if applicable)                                  |    |
|   |  |   |  | scottdl@ChurchofJesusChrist.org                                     |    |
| 18. Telephone Number  |  | 19. Extension or Code   |  | 20. Fax Number (if applicable)                                      |    |

**SECTION III: Regulated Entity Information****21. General Regulated Entity Information** (If "New Regulated Entity" is selected, a new permit application is also required.)
☒ New Regulated Entity   
 ☐ Update to Regulated Entity Name   
 ☐ Update to Regulated Entity Information

*The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).*

**22. Regulated Entity Name** (Enter name of the site where the regulated action is taking place.)

Liberty Hill Meeting House

**23. Street Address of the Regulated Entity:**

(No PO Boxes)

115 Bronco Blvd.

City

Liberty Hill

State

TX

ZIP

78642

ZIP + 4

**24. County**

Williamson

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

**25. Description to****Physical Location:**

The location is off of State Hwy 29 and Bronco Blvd. behind Prosperity Bank.

**26. Nearest City**

State

Nearest ZIP Code

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

**27. Latitude (N) In Decimal:**

30.67286389

**28. Longitude (W) In Decimal:**

97.91816111

Degrees

30

Minutes

40

Seconds

22.31

Degrees

97

Minutes

55

Seconds

5.38

**29. Primary SIC Code**

(4 digits)

8661

**30. Secondary SIC Code**

(4 digits)

**31. Primary NAICS Code**

(5 or 6 digits)

813110

**32. Secondary NAICS Code**

(5 or 6 digits)

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

Religious Meeting House

**34. Mailing****Address:**

The Church of Jesus Christ of Latter-Day Saints

50 E North Temple St COB-12

City

Salt Lake City

State

UT

ZIP

84150

ZIP + 4

**35. E-Mail Address:**

scotttdl@ChurchofJesusChrist.org

**36. Telephone Number****37. Extension or Code****38. Fax Number (if applicable)**

( 385 ) 315-555

( ) -

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


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

## SECTION IV: Preparer Information

|                             |                      |                       |                              |                     |
|-----------------------------|----------------------|-----------------------|------------------------------|---------------------|
| <b>40. Name:</b>            | Kortnie Thomas       |                       | <b>41. Title:</b>            | Project Coordinator |
| <b>42. Telephone Number</b> | <b>43. Ext./Code</b> | <b>44. Fax Number</b> | <b>45. E-Mail Address</b>    |                     |
| ( 210 ) 378-4953            |                      | ( ) -                 | Kortnie@hillcountrycivil.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>         | The Church of Jesus Christ of Latter-day Saints                                    | <b>Job Title:</b> | Authorized Agent |  |
| <b>Name (In Print):</b> | Colton Taylor  | <b>Phone:</b>     | 385 315-0555     |  |
| <b>Signature:</b>       |  | <b>Date:</b>      | 6/21/24          |  |