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SERVICES >> ENGINEERS

>> PLANNERS

>> SURVEYORS

Job Number: 22952

City of Liberty Hill
Williamson County, Texas

Angel Springs

Contributing Zone Plan Submittal



Contributing Zone Plan Checklist

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

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

Attachment A - Road Map

Attachment B - USGS Quadrangle Map

Attachment C - Project Narrative

Attachment D - Factors Affecting Surface Water Quality

Attachment E - Volume and Character of Stormwater

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

Attachment G - Alternative Secondary Containment Methods (if AST with an alternative method of secondary containment is proposed)

Attachment H - AST Containment Structure Drawings (if AST is proposed)

Attachment I - 20% or Less Impervious Cover Declaration (if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site)

Attachment J - BMPs for Upgradient Stormwater

Attachment K - BMPs for On-site Stormwater

Attachment L - BMPs for Surface Streams

Attachment M - Construction Plans

Attachment N - Inspection, Maintenance, Repair and Retrofit Plan

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

Attachment P - Measures for Minimizing Surface Stream Contamination

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

-OR-

✘ **Temporary Stormwater Section (TCEQ-0602)**

Attachment A - Spill Response Actions

Attachment B - Potential Sources of Contamination

Attachment C - Sequence of Major Activities

Attachment D - Temporary Best Management Practices and Measures

Attachment E - Request to Temporarily Seal a Feature, if sealing a feature

Attachment F - Structural Practices

Attachment G - Drainage Area Map

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

Attachment I - Inspection and Maintenance for BMPs

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

✘ **Copy of Notice of Intent (NOI)**

✘ **Agent Authorization Form (TCEQ-0599), if application submitted by agent**

- ✘ **Application Fee Form (TCEQ-0574)**
- ✘ **Check Payable to the “Texas Commission on Environmental Quality”**
- ✘ **Core Data Form (TCEQ-10400)**

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

| | | | | | | | | | |
|---|--|--|--|-----|---|------------------------------|-----------|-------------------------|----------------------------|
| 1. Regulated Entity Name: City of Liberty Hill | | | | | 2. Regulated Entity No.: 100824739 | | | | |
| 3. Customer Name: City of Liberty Hill | | | | | 4. Customer No.: 602959033 | | | | |
| 5. Project Type: (Please circle/check one) | <input checked="" type="checkbox"/> New | Modification | | | Extension | | Exception | | |
| 6. Plan Type: (Please circle/check one) | WPAP | <input checked="" type="checkbox"/> CZP | SCS | UST | AST | EXP | EXT | Technical Clarification | Optional Enhanced Measures |
| 7. Land Use: (Please circle/check one) | Residential | | <input checked="" type="checkbox"/> Non-residential | | | 8. Site (acres): | | 27.49 | |
| 9. Application Fee: | \$6,500 | | 10. Permanent BMP(s): | | | N/A | | | |
| 11. SCS (Linear Ft.): | N/A | | 12. AST/UST (No. Tanks): | | | N/A | | | |
| 13. County: | Williamson | | 14. Watershed: | | | 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

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

| Austin Region | | | |
|--------------------------------------|---|--|--|
| County: | Hays | Travis | Williamson |
| Original (1 req.) | — | — | <u> x </u> |
| Region (1 req.) | — | — | <u> x </u> |
| County(ies) | — | — | <u> x </u> |
| Groundwater Conservation District(s) | <input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek | <input type="checkbox"/> Barton Springs/ Edwards Aquifer | NA |
| City(ies) Jurisdiction | <input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek | <input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills | <input type="checkbox"/> Austin <input type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input type="checkbox"/> Georgetown <input type="checkbox"/> Jerrell <input type="checkbox"/> Leander <input checked="" type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <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 <input type="checkbox"/> Trinity-Glen Rose | <input type="checkbox"/> Edwards Aquifer Authority | <input type="checkbox"/> Kinney | <input type="checkbox"/> EAA <input type="checkbox"/> Medina | <input type="checkbox"/> EAA <input type="checkbox"/> Uvalde |
| City(ies) Jurisdiction | <input type="checkbox"/> Castle Hills <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Helotes <input type="checkbox"/> Hill Country Village <input type="checkbox"/> Hollywood Park <input type="checkbox"/> San Antonio (SAWS) <input type="checkbox"/> Shavano Park | <input type="checkbox"/> Bulverde <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Garden Ridge <input type="checkbox"/> New Braunfels <input type="checkbox"/> Schertz | NA | <input type="checkbox"/> San Antonio ETJ (SAWS) | NA |

| | |
|---|----------|
| I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. | |
| Curtis Steger, P.E. | |
| Print Name of Customer/Authorized Agent | 8/9/2023 |
| Signature of Customer/Authorized Agent | Date |

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

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: Curtis Steger

Date: 08/09/2023

Signature of Customer/Agent:



Regulated Entity Name: City of Liberty Hill

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: David Thomison

Entity: City of Liberty Hill

Mailing Address: 926 Loop 332

City, State: Liberty Hill, TX

Telephone: 512-673-6002

Email Address: dthomison@libertyhilltx.gov

Zip: 78642

Fax: _____

5. Agent/Representative (If any):

Contact Person: Curtis Steger

Entity: Steger & Bizzell Engineering & Land Surveying

Mailing Address: 1978 S Austin Ave

City, State: Georgetown, TX

Zip: 78626

Telephone: (512) 930-9412

Fax: N/A

Email Address: curtis.steger@stegerbizzell.com

6. Project Location:

- The project site is located inside the city limits of _____.
- The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of City of Liberty Hill.
- 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.

From the intersection of the south bound lanes of Ronald Reagan and Kauffman Loop, L on Co Rd 267, L to stay on Co Rd 267, R on Larkspur Park Blvd, L in 1,000 feet to arrive at site. Latitude/Longitude is 30.622771, -97.842800.

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
 - N/A 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: Clearing for water well study.

13. Total project area (size of site): 27.49 Acres

Total disturbed area: 8.05 Acres

14. Estimated projected population: 0

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

Table 1 - Impervious Cover

| <i>Impervious Cover of Proposed Project</i> | <i>Sq. Ft.</i> | <i>Sq. Ft./Acre</i> | <i>Acres</i> |
|---|----------------|---------------------|--------------|
| Structures/Rooftops | 0 | ÷ 43,560 = | 0 |
| Parking | 0 | ÷ 43,560 = | 0 |
| Other paved surfaces | 0 | ÷ 43,560 = | 0 |
| Total Impervious Cover | 0 | ÷ 43,560 = | 0 |

Total Impervious Cover 0 ÷ Total Acreage 0 X 100 = 0% 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.

N/A 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) \geq 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 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" = 200'.
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): _____.
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

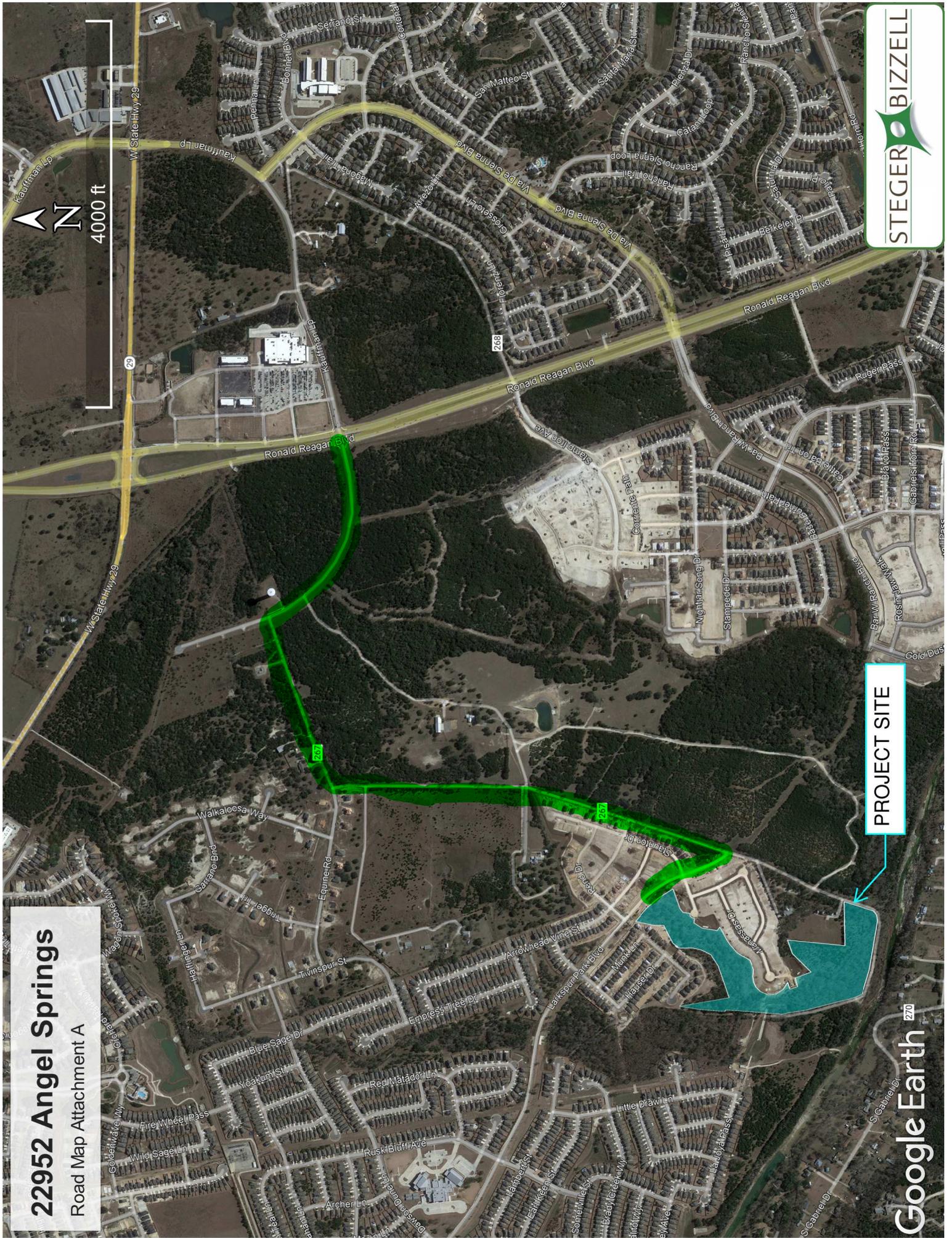
- 61. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.
- 62. Any 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.

22952 Angel Springs Road Map Attachment A



PROJECT SITE

Google Earth 270



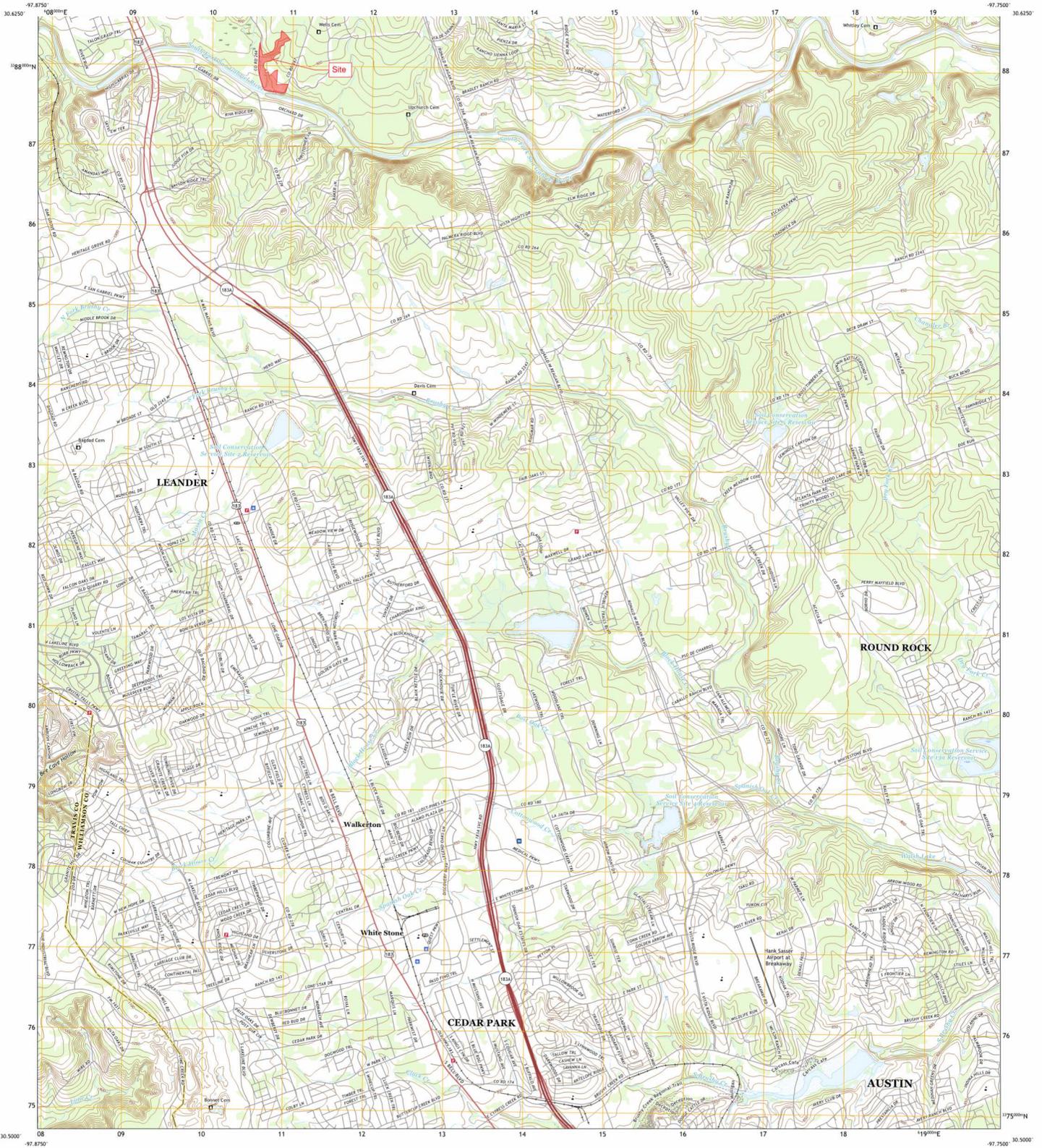
Attachment B: 7.5 Minute USGS Quadrangle Map



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

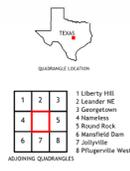
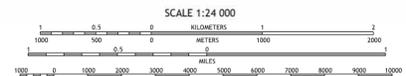


LEANDER QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection and
1 000-meter grid (Universal Transverse Mercator, Zone 14B)
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery:.....NIP, September 2016, November 2016
Roads:.....U.S. Census Bureau, 2015
Names:.....CENSUS, 2016
Hydrography:.....National Hydrography Dataset, 2002, 2016
Contours:.....National Elevation Dataset, 2002
Boundaries:.....Multiple sources; see metadata file 2016 - 2017
Wetlands:.....FWS National Wetlands Inventory 1982



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN DATUM OF 1983
This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.18

LEANDER, TX
2019



Attachment C – Project Narrative

The City of Liberty Hill is proposing to develop a test well site on a 27.49-acre site off of Larkspur Park Blvd in Liberty Hill, TX 78642. The lots are currently owned by the City of Liberty Hill. This application is for the clearing of the site to conduct geophysical hydro-geological studies as well as the drilling of test wells on the site. The site is located on the south side of Larkspur Park Blvd and between Manassas Dr and Munk Ln. The site is currently in the City of Liberty Hill ETJ. The proposed activity will include the clearing of trees and brush with rubber-tired equipment to minimize soil disturbance to a portion of the site measuring approximately 8.05 acres and drilling test wells in the cleared areas. There will be no impervious cover added to the site and no permanent BMP will be utilized. The site is currently undeveloped and undisturbed.

A majority of the off-site runoff flowing towards the property flows into and through an existing creek on site. In addition, the areas around the property are developed and drainage is intercepted prior to reaching the site.

Currently, there are no buildings or structures on the site. Historically, the site appears to have been unused. Caughfield Ranch Ltd took over the property and sold the property to the Larkspur Community Development as a potential site for residential development. Subsequently, the property was donated to the City to be further developed for water supply and parkland purposes. The site has not been developed and has remained undisturbed.

Attachment D – Factors Affecting Surface Water Quality

The following factors are anticipated to adversely affect surface water and groundwater quality:

- Disturbance of vegetated areas
- Leaking oil or spills from contractor vehicles.
- Accidental or improper discharge of the petroleum-based products.

Attachment E – Volume and Character of Stormwater

The character of the stormwater generated by this project is expected to remain unchanged as there will be no site grading and no addition of impervious cover. The existing site can be broken into western and eastern drainage basins that runoff to the southwest and to southeast with slopes in the 0-2% range and 2-7% range towards the existing South San Gabriel River. The Rational Method was used to calculate the volume of the stormwater.

Existing conditions include 7.93 acres of wooded land for the eastern basin and 19.56 acres of wooded land for the western basin. Final conditions on the property result in no increase in stormwater runoff. All off-site runoff is channeled directly to the South San Gabriel River.

The table below summarizes the peak flow calculated for the basins:

| Basin | 2 Year | 10 Year | 25 Year | 100 Year |
|------------------------|--------|---------|---------|----------|
| Existing Western Basin | 12.5 | 23.4 | 31.5 | 51.7 |
| Existing Eastern Basin | 4.3 | 7.8 | 10.5 | 16.7 |

The table below summarizes the runoff coefficient for the site for both pre-construction and post-construction conditions. The runoff coefficient is expected to remain the same in post-construction conditions.

| Basin | 2 Year | 10 Year | 25 Year | 100 Year |
|------------------------|--------|---------|---------|----------|
| Existing Western Basin | .22 | .28 | .31 | .39 |
| Existing Eastern Basin | .26 | .32 | .35 | .43 |

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ANGEL SPRINGS

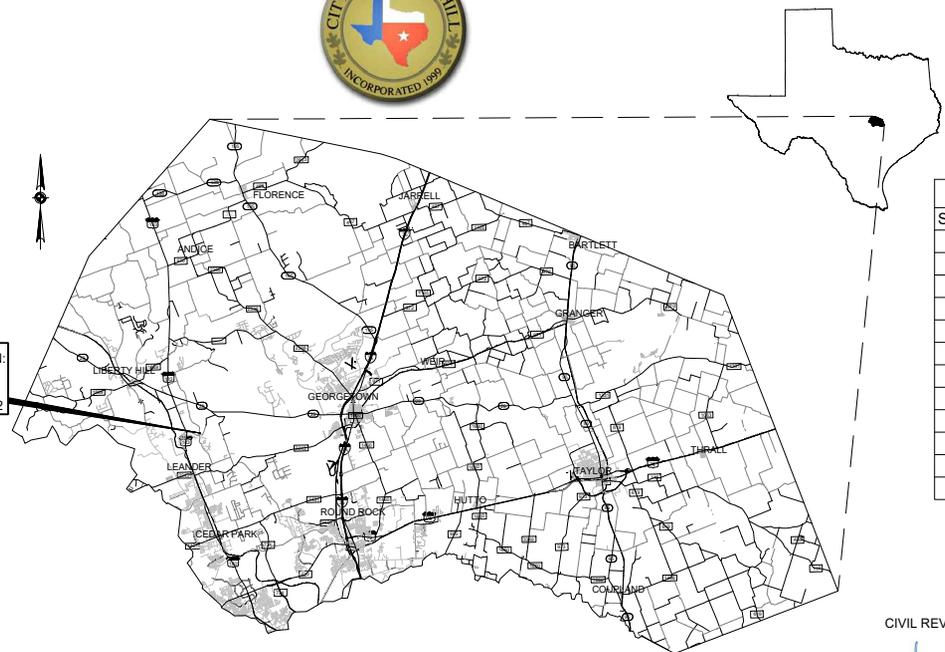
City of Liberty Hill

Williamson County, Texas



Warning!
 There are existing water pipelines, underground telephone cables and other above and below ground utilities in the vicinity of this project. The Contractor shall contact all appropriate companies prior to any construction in the area and determine if any conflicts exist. If so, the Contractor shall immediately contact the Engineer who shall revise the design as necessary.

PROJECT LOCATION:
 30.622771° N
 97.842800° W
 Liberty Hill, TX 78642



Williamson County SCALE: 1"=4 MILES

| Sheet List Table | |
|------------------|--------------------------------|
| Sheet Number | Sheet Title |
| 01 | COVER SHEET |
| 02 | GENERAL NOTES (1 OF 2) |
| 03 | GENERAL NOTES (2 OF 2) |
| 04 | CITY OF LEANDER GENERAL NOTES |
| 05 | LOCATION MAP |
| 06 | EROSION CONTROL PLAN (1 OF 2) |
| 07 | EROSION CONTROL PLAN (2 OF 2) |
| 08 | EXISTING DRAINAGE MAP (1 OF 2) |
| 09 | EXISTING DRAINAGE MAP (2 OF 2) |
| 10 | FLOODZONE MAP |
| 11 | TREE CLEARANCE AREAS |
| 12 | STANDARD DETAILS |

Mayor & City Council

- Mayor
- Mayor Pro Tem
- Council Member Place 1
- Council Member Place 2
- Council Member Place 3
- Council Member Place 4
- Council Member Place 5

- Liz Branigan
- Angela Jones
- Chris Pezold
- Will Crossland
- Crystal Mancilla
- Amanda Young
- Angela Jones

City Manager
 Public Works Manager

Paul Brandenburg
 Jay Holmes

CIVIL REVIEW

[Signature]
 CURTIS R. STEGER, P.E.



8/19/2023
 DATE

CITY OF LIBERTY HILL - APPROVED BY:

Paul Brandenburg - City Manager Date



| | | |
|----------|--|---|
| ADDRESS | 1979 S. AUSTIN AVENUE | GEORGETOWN, TX 78626 |
| METRO | 512.930.9412 | TEXAS REGISTERED ENGINEERING FIRM P-181 --EPL--FORM NO. 00000200 |
| SERVICES | >>>ENGINEERS >>>PLANNERS >>>SURVEYORS STEGERBIZZELL.COM | |

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GENERAL NOTES:

1. All construction shall be in conformance with the current International Building Code, National Electrical Code, American Concrete Institute 318-05 Building Code Requirements for Structural Concrete, and American Water Works Association standards.
2. Blasting is not allowed on this project.
3. Any pavement, curbs, sidewalks, etc. damaged or removed during construction will be replaced by the contractor at the contractor's expense.
4. Verify location of existing utilities prior to construction of the facilities proposed in this contract. Take care to avoid damage to existing utilities; repair any utility damaged in the course of construction of any part of this contract to its original operating condition immediately, with repair crews working 24 hours per day until damage is repaired. There shall be no separate pay for repair work.
5. No burning of trees, brush, rubbish vegetation or other objectionable material will be allowed on the project site. All cleared and grubbed material shall be disposed of in a manner satisfactory to the owner and in conformance with all federal, state and local rules and regulations. There will be no heritage or significant trees removed or impacted during proposed construction.
6. Before beginning construction, notify the engineer of any discrepancies or conflicts found in drawings and/or field dimensions.
7. Other construction contracts may be ongoing in the project area. Coordinate activities with others to insure minimal conflicts. Afford utility and other contractors reasonable opportunity for access and execution of work.
8. Maintain drainage of the site during all phases of construction. Do not block drainage from adjacent areas nor add flow to adjacent areas.
9. The finished grade elevations shown are intended to provide drainage away from the treatment plant facilities. Minor field changes may be necessary to provide adequate drainage. Grade uniformly between elevations shown to provide positive drainage.
10. Adjust manhole covers, valve boxes, electrical manholes, etc. to finished grade. There shall be no separate pay for this adjustment.
11. All disturbed areas are to be hydro-mulched after construction in accordance with specification on landscape plan. Final payment will not be made until ground cover has been re-established.
12. On all structures which hold a liquid, contractor shall guarantee the structure to be leak-proof.
13. Coordinates shown for structure locations are referenced to the outside edge of concrete or to the centerline of the structure.
14. Contractor shall give 48 hours notice to the following persons prior to commencement of work:
 - a. Jay Holmes - City of Liberty Hill 512-745-1222
 - b. Curtis Steger - Steger Bizzell 512-930-9412
15. All excavation shall be unclassified regardless of material encountered.
16. Contractor shall make subsurface investigations as deemed necessary. No additional payment will be made for water, sand, gravel or other unstable conditions encountered in excavations.
17. Detour of traffic around work activities, maintenance of traffic control signs, and flagmen are the contractor's responsibility. No separate payment will be made.
18. Contractor shall be responsible for restoring all fences (whether shown on the plans or not) in the work area to their original condition prior to completion of this contract.
19. Contractor shall preserve all construction stakes, survey control stakes, marks, etc. Any construction stakes, survey control stakes, marks, etc. disturbed, destroyed or otherwise made unusable by the contractor or his employees or subcontractors shall be replaced at the contractor's expense.
20. Contractor shall remove and replace any traffic or road signs encountered with the notification and approval of the appropriate authority (TxDOT, County, U.S. Army Corps of Engineers, etc.) No separate payment will be made.
21. Contractor shall implement a trench and excavation system, program, and/or procedure for the proposed project. The implementation of this system, program and/or procedure shall provide for the adequate trench and excavation safety protection that complies with, as a minimum, OSHA standards for trench excavations. Specifically, the contractor and/or contractor's independently retained employee or safety consultant shall implement a trench and excavation safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.
22. Contractor shall notify utilities having facilities in the area at least 48 hours prior to commencing construction. The utility companies may include, but are not limited to, electric, telephone, cable, gas, cable television, water, wastewater and storm sewer.
23. Contractor shall not place fill or waste material on any private property without prior written permission from the property owner. The contractor shall remove all surplus material and dispose of it at a location which has the appropriate agency approval to review that type of material. Disposal of all surplus materials shall be in conformance with all federal, state and local regulations. No separate payment will be made.
24. No excess excavated material shall be deposited in low areas or along natural drainage ways.
25. If contractor places excess material in areas without written permission, the contractor shall be responsible for all damage resulting from such fill and shall remove said material at his own expense.
26. Before completion of this project, all roadways, slopes, ditches and berms shall be restored to their original condition.
27. Contractor shall provide all required sheeting and shoring to protect existing utilities and structures.
28. Proposed contours shown represent proposed finished grade elevations. Contractor shall maintain smooth and continuous transitions to blend proposed and existing contours.
29. The contractor shall maintain access to residential and business driveways at all times except when construction activities actually obstruct the driveways. The contractor shall notify residents and businesses of the need to close their driveways five (5) days prior to the actual date of closure.
30. Dimensions provided for equipment anchorage, controlling clearances and unit piping shall be verified by the contractor through the specific equipment manufacturer prior to construction.
31. Compatibility of accommodation and provision for equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights, and reaction with the equipment for which the accommodation has been designed prior to submission of shop drawings and submittal data for each equipment and for structural components. The engineer shall be notified of differences and conflicts for review, revision and approval.
32. Shop drawings shall be prepared for all structural items and submitted for review and approval to the engineer. The contract drawings shall not be reproduced and used as shop drawings. All items deviating from the contract drawings or from previous shop drawings submitted shall be noted. Written notice shall be provided for each deviation from the contract documents and from previous submittals.
33. The details designated as "typical details" apply in general to the drawings in all areas where conditions are similar to those described in the details.
34. ANSIN/NSF standard 60 and 61 certification for potable water: All materials which come into direct or indirect contact with potable water in any stage of treatment, storage or distribution shall conform to ANSIN/NSF Standard 60 for direct additives and ANSIN/NSF Standard for indirect additives. Should no certified material for the intended purpose exist or if there are no such certified materials currently marketed in the State of Texas, a material may be conditionally accepted for use if either a dated receipt from NSF, UL or other ANSI accredited organization or a letter from the accredited organization acknowledging that the material has been submitted for evaluation and certification.
35. Water line testing and sterilization shall be performed in accordance with the standard specifications and in accordance with the requirements of the State of Texas, Texas Commission on Environmental Quality, Chapter 290, Public Drinking Water.

TEMPORARY EROSION AND SEDIMENTATION CONTROL

36. Contractor shall use the temporary erosion and sedimentation control plans to prepare a Stormwater Pollution Prevention Plan (SWPPP) in accordance with the requirements of the U.S. Environmental Protection Agency as defined in 40 CFR 122.26, pursuant to section 402 of the U.S. Clean Water Act and pursuant to section 26.040 of the Texas Water Code
37. Contractor shall install all temporary erosion and sedimentation controls prior to any other site work (clearing, grubbing, excavation, etc.)
38. Placement of temporary erosion and sedimentation controls shall be in accordance with the erosion and sedimentation control plan.
39. Any major variation in materials or locations of controls or fences from those shown on the plans will require a revision and must be approved by the engineer. Minor changes to be made as field revisions to the temporary erosion and sedimentation control plan may be required by the engineer during the course of construction to correct control inadequacies.
40. Contractor is required to inspect the controls and fences at weekly intervals and after significant rainfall events to insure that they have not been substantially disturbed and are functioning properly. Contractor is responsible for maintenance of controls and shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls shall be removed when the depth reaches six (6) inches.
41. Prior to final acceptance, haul roads and waterway crossings constructed for temporary contractor access shall be removed, accumulated sediment removed from the waterway and the area restored to the original grade and re-vegetated. All land clearing debris shall be disposed of in approved spoil sites in accordance with federal, state and local regulations.
42. All work must stop if a void in the rock substrate is discovered which is one square foot in total area or blows air from within the substrate and/or constantly receives water during any rain event. It shall be the responsibility of the contractor to immediately contact the engineer for further investigation and to determine any necessary course of action.
43. In erodible areas left bare and unwork for four weeks or longer, a temporary grass or mulch cover shall be provided. If temporary seeding or mulch is impractical, temporary terraces or berms perpendicular to the slope shall be used.
44. Limits of temporary staging, storage and spoil areas shall be located within approved sites. Temporary erosion and sedimentation control measures shall be placed at each site. Each site is subject to approval by the engineer.
45. Vehicles used for construction shall be inspected for tracking control. If necessary, wheels shall be manually scraped or washed (if water is available) before driving on any roadway.
46. Contractor shall prevent blowing and movement of dust from exposed soil surfaces.
47. All areas within the public right-of-way exposed during construction shall be re-vegetated as directed by the engineer.
48. Contractor shall be responsible for the maintenance of each temporary erosion and sedimentation control measure, device and scheme being used on the project and shall provide additional silt fence for any off-site discharges of silted water from any excavation.
49. Contractor shall be responsible for cleaning up and properly disposing of all spilled pollutants, including oil, paint, fuels, antifreeze, solvents, etc. Contractor shall keep accurate records (such as receipts, copies of analytical results, etc.) indicating proper disposal of spilled materials. Contractor shall be responsible for insuring that all discharges from the construction area are in compliance with all applicable regulations. No substance shall be dumped or leaked onto the ground or allowed to runoff from the construction site that might cause pollution.
50. Equipment shall be cleaned in a manner that does not create any discharge of cleaning agents, paint, oil or other pollutants to a storm sewer or waterway.
51. Any trash or debris must be contained on site and disposed of in a manner to prevent wind or rain from carrying it off-site into a storm drain or waterway.
52. The City of Leander environmental inspector has the authority to add or modify erosion/sediment controls on the site throughout the duration of the project.

JOB SITE SAFETY

53. Contractor shall be responsible for maintaining clearances required by the National Electrical Safety Code, Occupational Safety and Health Administration (OSHA) regulations and Texas State law (Vernon's Annotated Texas Statutes, Article 1436 (c) pertaining to clearances when working in close proximity to overhead electrical lines and equipment. All cost incurred because of failing to comply with the required clearances will be charged to the contractor.
54. All construction operations shall be accomplished in accordance with all applicable regulations of the United States Occupational Safety and Health Administration (OSHA) and in compliance with Texas House Bills 662 and 665.

EXCAVATION, SUBGRADE PREPARATION, AND BACKFILL

- A. All excavation, subgrade preparation, and backfill for concrete structures shall be in accordance with the the project specifications.

WATERPROOFING FOR CONCRETE STRUCTURES

- B. All concrete structure walls that are below grade shall be waterproofed.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

| NO. | REVISION | BY | DATE |
|-----|----------|----|------|
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| | |
|-------------------------|--------------------|
| BB, CRS DESIGNED BY: | 08/08/2023 DATE |
| BB DRAWN BY: | 08/08/2023 DATE |
| CRS CHECKED BY: | 08/09/2023 DATE |
| CRS APPROVED BY: | 08/09/2023 DATE |



ADDRESS: 1978 S. AUSTIN AVENUE GEORGETOWN, TX 79626
 TEL: 512.930.9412 TEL: 512.930.9412 FAX: 512.930.9412
 WWW: WWW.STEGERBIZZELL.COM
 TPL'S # FIRM No. 100033700

GENERAL NOTES (1 OF 2)
 for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
22952

SHEET
02
 of 12

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REINFORCED CONCRETE

- 54. Reinforcing steel shall be new billet steel conforming to ASTM A615/A615M- 08 Grade 60. Lap splices shall be in accordance with ACI standards.
- 55. At all wall corners and tee intersections, provide corner bars to match size and spacing of horizontal reinforcing in both faces. Lap reinforcing as noted above.
- 56. Coordination with suppliers of attendant components of total systems requiring embeds, plates, inserts, etc. Is the responsibility of contractor.
- 57. All exposed edges of concrete shall be chamfered 3/4" unless otherwise noted.
- 58. All reinforced concrete shall comply with ACI 301 and ACI 318 except where otherwise noted or specified.
- 59. Additional construction joints require prior approval of the engineer.
- 60. All indicated water-stops shall be 6" x 3/8" ribbed, bulb type PVC installed with as few splices as possible.
- 61. All concrete shall be class a with a 28 day minimum compressive strength of 4000 psi unless otherwise noted or specified.
- 62. Install adequate temporary shoring and bracing during construction for all concrete members to support all applied loads.
- 63. The following minimum concrete covers shall be provided for reinforcing steel:
 - a. Concrete cast against and permanently exposed to earth- 3"
 - b. Concrete exposed to earth, weather or water:
 - i. Up to #5 bar- 1 1/2"
 - ii. #6 bar and larger- 2"
 - c. Concrete not exposed to weather or in contact with ground or water:
 - i. Slabs, walls, joists:
 - 1. up to #11 bars - 3/4"
 - 2. #14 & #18 bars - 1 1/2"
 - ii. Beams, columns primary reinforcement, ties, stirrups, spirals- 1 1/2"
- 64. Grade beams scheduled are a minimum. Increase the beam depth at building perimeter so that beam soffit bears a minimum of 12 inches below final grade.
- 65. Grade beam reinforcing shall be supported at bottom using concrete block, bricks or chairs at 4'-0" minimum intervals.
- 66. Exposed faces of foundation shall be wood formed to a depth of 8 inches below final grade.
- 67. Contractor shall rough grade and cut swales so that the surface water shall drain away from pad site. Maintain drainage so that the water will drain away from the pad site during all phases of construction. Water which accumulates in trenches and excavations shall be immediately pumped out.
- 68. In the slab area and beginning at the low end:
 - a. Remove all organic material (roots, trees, grass, and other humus materials) and any other deleterious materials. Remove a minimum of one foot of the existing material.
 - b. Scarify at least six inches of the cut soil subgrade and recompact to at least 95 percent of maximum dry density determined using ASTM D698. Maintain water content wet of optimum but within a range that will allow the specified compaction percentage.
 - c. Bring the pad to the underside of the slab with flexible base type "A" Grades 1 through 3 as specified by TxDOT 2004 Standard Specifications for Construction of Highways, Streets and Bridges, Item 247.
 - d. Compact the aggregate fill (8 inch maximum lifts) to at least 95 percent of the maximum dry density as determined using ASTM D698. Hold moisture contents within a range of -2% and +3% of optimum. Maintain compacted lift thickness to 6 inches or less.

- 69. Trenching for grade beams and mechanical lines shall be performed after all earthwork above has been completed. Trenching shall be conducted using a smooth bucket. Trenches shall be verified for size to maintain clearances around reinforcement prior to placing reinforcement.
- 70. Contractor shall employ the services of an independent laboratory to take one density test of each lift of fill for each 1,500 square feet (minimum of two lifts).
- 71. Detailing of reinforcement bars and accessories shall be in accordance with the latest ACI Manual of Standard Practice Details and Detailing of Concrete Reinforcement (ACI 315).

PIPING

- 72. All buried ductile iron pipe and fittings shall be installed in strict accordance with the following, in descending order:
 - a. Manufacturer's recommendations;
 - b. AWWA manual N41, latest edition;
 - c. ANSI/AWWA C600, latest revision;
 - d. ANSI/AWWA C150/A21.50, latest revision;
 - e. Procedures outlined in the technical specifications section 33 10 00; and
 - f. Details shown on the plans.
- 73. All hose bibbs shall have vacuum breakers.
- 74. All above ground piping and appurtenances 3" and larger shall be threaded, flanged, welder or made with vitalluc grooved couplings. No mechanical joint fittings shall be used above ground.
- 75. All plant yard piping shall be ductile iron except as allowed by the bid schedule or otherwise indicated on the plans.
- 76. All piping shall be constructed to resist horizontal and vertical thrust. Horizontal blocking shall be placed against undisturbed earth with minimum dimensions shown in the horizontal blocking table. Vertical thrust will require that the contractor weld joints in accordance with and under supervision of pipe manufacturer for concrete steel cylinder pipe.
- 77. Unless otherwise noted, all buried iron pipe and fittings shall be polyethylene wrapped (8 mil) cement mortar lined ductile iron pipe with bitumastic asphalt outside coating.
- 78. Unless otherwise noted, service pressure for flanged ductile iron pipe and fittings shall be 250 psi.
- 79. Provide buried valves with mechanical joint end connections, nut operators, extension stems and valve boxes with cover, unless otherwise noted on the plans. Process piping and plant drain piping valve covers to be blank.
- 80. All underground ductile iron fittings to be mechanical joint unless otherwise specified.
- 81. Site piping drawings indicate the invert elevations for gravity flow lines. Slope the pipe uniformly between elevations shown. No valleys or peaks permitted in gravity flow lines. For other piping, refer to the plans for pipe elevations at each structure. Yard piping sheet does not indicate all vertical bends and transitions. When necessary, make vertical transitions or furnish and install vertical bends and necessary fittings at no extra cost. Do not deflect pipe joints through angle greater than recommended by pipe manufacturer.
- 82. All yard piping shall have a minimum cover of 3' unless otherwise noted.
- 83. Maintain a minimum clearance of 3' from edge of structures to closest edge of pipeline adjacent and parallel to edge of structure unless otherwise shown on the plans.

- 84. Maintain a minimum clearance of 3' from edge of structures to closest edge of pipeline adjacent and parallel to edge of structure unless otherwise shown on the plans.
- 85. Provide adequate thrust blocking and harnessing on all piping to withstand test pressures.
- 86. All penetrations through concrete walls are to be made with wall pipes with integral wall collars.
- 87. Dielectric connections to be prevented by the use of non-conductive gaskets between dissimilar piping materials.
- 88. Contractor is responsible for designing, furnishing and installing hangers and supports for all piping and valves to prevent sagging, lateral movement and from transferring stress to equipment or couplings.
- 89. All supports are to be securely fastened.
- 90. Saddles for insulated pipe to include protective sleeves.
- 91. Buried steel pipe larger than 3" shall be coated and wrapped in accordance with AWWA C-203.102.
- 92. Unless otherwise indicated, above ground fittings are to be flanged, short body fittings or vitalluc grooved couplings.
- 93. Provide all air piping with expansion joints or flexible couplings for thermal expansion from 10 degrees F. to 200 degrees F.
- 94. Trapeze hangers are permitted provided pipes are at the same elevation, parallel and roller supports are provided for each pipe. Steel angles or channels may also be used.
- 95. Perforated strap hangers are not acceptable.
- 96. Hanger rods are to be sized as required to adequately suspend the equipment. Secure rods to construction with wrought iron swivel type concrete inserts, swivel beam clamps, anchor bolts, steel joist bar clamps or swivel weld attachment.
- 97. Pipe hangers and supports to be primed in accordance with specifications before installation unless otherwise noted. Two nuts to be provided (one for locking purposes) on all hanger rods and supports.
- 98. Mechanical thrust restraint or concrete thrust blocking shall be installed on all fittings installed below ground.
- 99. All ductile iron pipe and fittings installed above grade or in vaults (i.e. not buried) shall have the exterior cleaned and primed at the factory in accordance with section 09 97 00 special paints and coatings, 7.2 mill coated pipe, of the specifications. Above grade ductile iron pipe and fittings with an exterior coating of bituminous asphalt is not acceptable.
- 100. All ductile iron piping and fittings are P401 lined.
- 101. For all non-metallic pipe, directly above the centerline of the pipe and a minimum of 12 inches below the subgrade, or a minimum of 18 inches below finished grade on areas outside the limits of the pavement, shall be placed Inductive Tracer Detection Tape in accordance with the manufacturer's requirements. The tape shall be encased in a protective, inert, plastic jacket and color-coded in accordance with the APWA Uniform Color Code.

STRUCTURAL STEEL

- 102. All structural steel shall be detailed, fabricated and erected in accordance with the latest AISC "Specifications for Design, Fabrication and Erection of Structural Steel for Buildings".
- 103. All structural steel shall conform to ASTM A36.113. All field bolted connections shall be made with HT bolts. HT bolts shall conform to ASTM A325 or ASTM A490 and shall be designed to indicate when they have been tightened to the required bolt tension. Only one type of bolt shall be permitted in a connection.
- 104. Welding shall be in accordance with American Welding Society AWS "Structural Welding Code", latest revision.
- 105. Welding shall be performed with E70XX electrodes.
- 106. All expansion bolts shall be Hilti "Kwik Bolts".

- 107. Sizes of fillet welds not shown shall conform to minimum sizes as specified in AISC "Specifications for Design, Fabrication and Erection of Structural Steel for Buildings".
- 108. All steel shown as galvanized shall be hot dip galvanized after fabrication and shall conform to ASTM A0123 and ASTM A-386.
- 109. All anchor bolts shall be stainless steel and shall conform to ASTM A-316 unless otherwise noted.
- 110. HT bolt connections shall be friction type unless otherwise noted or permitted. Make such connections to comply with "Specifications for Structural Joints using ASTM A-325 or A-490 Bolts", approved by Research Council on Structural Connections and endorsed by AISC.
- 111. Field painting and touch-up shall be performed on all field joints of steel.
- 112. Detail, fabricate and erect all steel joists, joist girders and joist bridging in accordance with the latest "Standard Specifications of the Steel Joist Institute".
- 113. Minimum bearing for H-Series joists shall be 1 1/2" long on steel and 4 1/2" long on masonry or concrete, unless otherwise noted.
- 114. Joist bridging shall be erected prior to erection of decking on joist system.
- 115. Where concentrated loads exceed 500 pounds are applied to either chord of steel joist, provide a 2" x 2" x 1/2" angle field welded from where point load is applied perpendicular to opposite chord.

GAS PIPELINE CROSSING AND CONSTRUCTION GUIDELINES

- 116. All construction shall be in accordance with the standard specifications and requirements of the specific gas pipeline to be crossed. Prior to construction, gas line shall be pot holed with gas company representative present and this information shall be provided to the Engineer and the gas pipeline representatives.
- 117. Prior to any construction within the gas pipeline easement boundaries, approval for construction is required from the gas pipeline company.
- 118. Energy Transfer gas pipeline Representative: Scott Spears, 903-393-6416, Scott.Spears@energytransfer.com
- 119. Atmos Energy Crosstex gas pipeline Representative: Austin Tuxhorn, 214-478-1842, Austin.tuxhorn@atmosenergy.com

EROSION AND SEDIMENTATION CONTROL NOTES:

- 120. All areas disturbed or exposed during construction shall be re-seeded in accordance with the Erosion Control Note #5 under the CITY OF LEANDER GENERAL NOTES. All re-vegetation will be native grasses and no turf of sod is required in the project area.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

| NO. | REVISION | BY | DATE |
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BB_CRS DESIGNED BY: 08/08/2023
 DATE
BB DRAWN BY: 08/08/2023
 DATE
CRS CHECKED BY: 08/09/2023
 DATE
CRS APPROVED BY: 08/09/2023
 DATE



ADDRESS: 1878 S. AUSTIN AVENUE GEORGETOWN, TX 79626
 METRO: 817.800.0412 TEXAS REGISTERED ENGINEERING FIRM #0117
 STATE: TEXAS TPLS S.FIRM No. 100633700 STEGER&BIZZELL.COM
 SERVICES: >>>ENGINEERING >>>PLANNING >>>SURVEYING

GENERAL NOTES (2 OF 2)
 for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
 22952
SHEET
03
 of 12

GENERAL NOTES FOR SUBDIVISIONS AND SITE DEVELOPMENT PLANS

REVISED March 27, 2023
 CITY CONTACTS:
 ENGINEERING MAIN LINE: 512-528-2721
 PLANNING DEPARTMENT: 512-528-2750
 PUBLIC WORKS MAIN LINE: 512-259-2640
 STORMWATER INSPECTIONS: 512-285-0055
 UTILITIES MAIN LINE: 512-259-1342
 UTILITIES ON-CALL: 512-690-4760

GENERAL:

- CONTRACTORS SHALL HAVE AN APPROVED SET OF PLANS WITH APPROVED REVISIONS ON SITE AT ALL TIMES. FAILURE TO HAVE APPROVED PLANS ON SITE MAY RESULT IN ISSUANCE OF WORK STOPPAGE.
- CONTACT 811 SYSTEM FOR EXISTING WATER AND WASTEWATER LOCATIONS 48 HOURS PRIOR TO CONSTRUCTION.
- REFRESH REQUESTS MUST INCLUDE A COPY OF YOUR 811 TICKET, TRASH PIPELINE DAMAGE PREVENTION LAWS REQUIRE THAT A LOCATE REFRESH REQUEST BE SUBMITTED BEFORE 14 DAYS, OR IF LOCATION MARKERS ARE NO LONGER VISIBLE.
- PIPELINE DAMAGE IMMEDIATELY - IF YOU YITNESS OR EXPERIENCE PIPELINE EXCAVATION DAMAGE, PLEASE CONTACT THE CITY OF LEANDER BY PHONE AT 512-259-2640.
- THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR 48 HOURS BEFORE:
 - BEGINNING EACH PHASE OF CONSTRUCTION, CONTACT ASSIGNED CITY INSPECTOR.
 - ANY TESTING, CONTRACTOR SHALL PROVIDE QUALITY TESTING FOR ALL INFRASTRUCTURES TO BE ACCEPTED AND MAINTAINED BY THE CITY OF LEANDER AFTER COMPLETION.
 - PROOF ROLLING SUB-GRADE AND EVERY LIFT OF ROADWAY EMBANKMENT, IN-PLACE DENSITY TESTING OF EVERY BASE COURSE, AND ASPHALT CORES. ALL OF THIS TESTING MUST BE WITNESSED BY A CITY OF LEANDER REPRESENTATIVE.
 - CONNECTING TO THE EXISTING WATER LINE.
 - THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET ROW. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S ROW MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.
- ALL RESPONSIBILITIES FOR THE ACCURACY OF THESE PLANS ARE THE RESPONSIBILITY OF RECORD WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST RELY ON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.
- EXCESS SOIL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. NOTIFY THE CITY OF LEANDER IF THE DISPOSAL SITE IS INSIDE THE CITY'S JURISDICTIONAL BOUNDARIES.
- BURNING IS PROHIBITED.
- NO WORK IS TO BE PERFORMED BETWEEN THE HOURS OF 9:00 P.M. AND 7:00 A.M. OR WEEKENDS. THE CITY INSPECTOR RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT INSPECTION.
- CONTACT THE CITY INSPECTOR 4 DAYS PRIOR TO WORK FOR APPROVAL TO SCHEDULE ANY INSPECTIONS ON WEEKENDS OR CITY HOLIDAYS.
- NO BLASTING IS ALLOWED.
- ANY ERECTIONS OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION OF THE REVISION. ALL CHANGES AND REVISIONS SHALL USE REVISION CLOUDS TO HIGHLIGHT ALL REVISIONS AND CHANGES WITH EACH SUBMITTAL. REVISION TRIANGLE MARKERS AND NUMBERS SHALL BE USED TO MARK REVISIONS. ALL CLOUDS AND TRIANGLE MARKERS FROM PREVIOUS REVISIONS MUST BE REMOVED. REVISION INFORMATION SHALL BE UPDATED ON COVER SHEET AND AFFECTED PLAN SHEET TITLE BLOCK.
- THE CONTRACTOR AND ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF LEANDER ACCURATE "RECORD DRAWINGS" FOLLOWING THE COMPLETION OF ALL CONSTRUCTION. THESE "RECORD DRAWINGS" SHALL MEET THE SATISFACTION OF THE ENGINEERING DEPARTMENTS PRIOR TO FINAL ACCEPTANCE.
- THE CONTRACTOR WILL REIMBURSE THE CITY FOR ALL REPAIR AND/OR COST INCURRED AS A RESULT OF ANY DAMAGE TO ANY PUBLIC INFRASTRUCTURE WITHIN CITY EASEMENT OR PUBLIC RIGHT-OF-WAY, REGARDLESS OF THESE PLANS.
- WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT EASEMENTS. CLEANUP SHALL BE TO THE SATISFACTION OF THE ENGINEER OF RECORD AND CITY.
- CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, AT NO ADDITIONAL COST TO THE PROPERTY OWNER.
- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 1033 LA ROSADA DR, SUITE 375, AUSTIN, TEXAS 78752-3832.
- ALL MANHOLE FRAMES/COVERS AND WATER VALVE/METER BOXES MUST BE ADJUSTED TO FINISHED GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR FOR CITY CONSTRUCTION INSPECTOR INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL. CONTRACTOR SHALL BACKFILL AROUND MANHOLES AND VALVE BOXES WITH CLASS A CONCRETE.
- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL CITY OF LEANDER DETAILS AND CITY OF AUSTIN STANDARD SPECIFICATIONS.
- PROJECT SPECIFICATIONS TAKE PRECEDENCE OVER PLANS AND SPECIAL CONDITIONS GOVERN OVER TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR MUST OBTAIN A CONSTRUCTION WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL, SEDIMENT AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL, SEDIMENT OR DEBRIS FROM AN AREA OR VEHICLE BY MEANS OF WATER. ONLY SHOVELING AND SWEEPING WILL BE ALLOWED. THE CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE. THE CONTRACTOR SHALL KEEP THE SITE AREA CLEAN AND MAINTAINED AT ALL TIMES, TO THE SATISFACTION OF THE CITY. THE SUBDIVISION (OR SITE) WILL NOT BE ACCEPTED (OR CERTIFICATE OF OCCUPANCY ISSUED) UNTIL THE SITE HAS BEEN CLEANED TO THE SATISFACTION OF THE CITY.
- TREES IN EXISTING ROW SHOULD BE PROTECTED OR NOTED IN THE PLANS TO BE REMOVED.

CONSTRUCTION SEQUENCE NOTES

- NOTE: BELOW IS GENERAL SEQUENCE OF CONSTRUCTION. THE ENGINEER OF RECORD SHALL UPDATE BELOW TO POINTS SPECIFIC TO THE PROJECT.
- REACH OUT TO THE CITY FOR PRE-CONSTRUCTION MEETING AND CONSTRUCTION PERMIT.
 - SET UP E/S CONTROLS AND TREE PROTECTION AND REACH OUT TO CITY FOR INSPECTION.
 - SET UP TEMPORARY TRAFFIC CONTROL.
 - CONSTRUCT THE DRAINAGE PDS AND STORM WATER FEATURES.
 - START UTILITY, ROAD, GRADING, FRANCHISE UTILITY AND ALL NECESSARY INFRASTRUCTURE CONSTRUCTION. (NOTE: PLEASE UPDATE AS PER THE PROJECT).
 - REQUEST FINAL WALKTHROUGH AND CONDUCT WALKTHROUGH WITH ENGINEER OF RECORD AND CITY DEPARTMENT.
 - ENGINEER OF RECORD IS RESPONSIBLE TO PREPARE AND SUBMIT CLOSOUT DOCUMENTS FOR PROJECT CLOSURE.

EROSION CONTROL NOTES

- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES AND SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES 6(6) INCHES.
- THE TEMPORARY SPILLS DISPOSAL SITE IS TO BE SHOWN IN THE EROSION CONTROL MAP.
- ANY ON-SITE SPILLS DISPOSAL SHALL BE REMOVED PRIOR TO ACCEPTANCE UNLESS SPECIFICALLY SHOWN ON THE PLANS. THE DEPTH OF SPILL SHALL NOT EXCEED 10 FEET IN ANY AREA.
- ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 6 INCHES OF TOPSOIL AND COMPOST BLEND. TOPSOIL ON SINGLE FAMILY LOTS WILL BE INSTALLED WITH HOME CONSTRUCTION. THE TOPSOIL AND COMPOST BLEND SHALL CONSIST OF 75% TOPSOIL AND 25% COMPOST.
- SEEDING FOR REESTABLISHING VEGETATION SHALL COMPLY WITH THE AUSTIN GRASS GREEN GUIDE OR WILLIAMSON COUNTY'S PROTOCOL FOR SUSTAINABLE ROADSIDES (SPCS 164--WC001 SEEDING FOR EROSION CONTROL). RESEEDING VARIETIES OF BERMOUDA SHALL NOT BE USED.

6. STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED AT ALL POINTS WHERE CONSTRUCTION TRAFFIC IS EXITING THE PROJECT ONTO EXISTING PAVEMENT. LINEAR CONSTRUCTION PROJECTS MAY REQUIRE SPECIAL CONSIDERATION. ROADWAYS SHALL REMAIN CLEAR OF SILT AND MUD.
7. TEMPORARY STOP SIGNS SHOULD BE INSTALLED AT ALL CONSTRUCTION ENTRANCES WHERE A STOP CONDITION DOES NOT ALREADY EXIST.
8. IN THE EVENT OF INCLEMENT WEATHER THAT MAY RESULT IN A FLOODING SITUATION, THE CONTRACTOR SHALL REMOVE INLET PROTECTION MEASURES UNTIL SUCH TIME AS THE WEATHER EVENT HAS PASSED.

WATER AND WASTEWATER NOTES

WATER AND WASTEWATER GENERAL NOTES

- ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AND ORGANIZATION ACCREDITED BY ANSI.
- ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY STAMPED AS FOLLOWS:
 - WATER SERVICE "W" ON TOP OF CURB
 - WATER SERVICE "C" ON TOP OF CURB
 - VALVE "V" ON TOP OF CURB
- OPEN UTILITIES SHALL NOT BE PERMITTED ACROSS THE EXISTING PAVED SURFACES, WATER AND WASTEWATER LINES ACROSS THE EXISTING PAVED SURFACES SHALL BE BORED AND INSTALLED IN STEEL ENGAGEMENT PIPES. BELL RESTRAINTS SHALL BE PROVIDED AT JOINTS.
- ALL EXISTING WATER MAINS SHALL BE BORED AND INSTALLED WATER PIPE SHALL BE GEMENT-MORTAR LINED AND SEAL COATED AS REQUIRED BY AWWA C104.
- SAND, AS DESCRIBED IN AUSTIN SPECIFICATION ITEM 530 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C23 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION:
 - SIZE: SIZE PERCENT RETAINED BY WEIGHT
 - 1/2" 0
 - 3/8" 0-2
 - #4 40-85
 - #10 95-100
- DENSITY TESTING FOR TRENCH BACKFILL SHALL BE DONE IN MAXIMUM 12" LIFTS.

WATER

- SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL. AT THE CONTRACTOR'S REQUEST, AND IN ORDER TO PREPARE FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF LEANDER NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY. CITY PERSONNEL WILL OPERATE OR AUTHORIZE THE CONTRACTOR TO OPERATE ALL WATER VALVES THAT WILL PASS THROUGH THE CITY'S POTABLE WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECLAIMED WATER PIPE SHALL BE GEMENT-MORTAR LINED AND SEAL COATED AS REQUIRED BY AN UNAUTHORIZED MANNER, REGARDLESS OF WHO OPERATED THE VALVE.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES MAY HAVE TO OCCUR AT OPEX HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 AM AND 6 AM. AFTER COORDINATING WITH CITY CONSTRUCTION INSPECTORS AND INFORMING AFFECTED PROPERTIES.
- PRESSURE TAPS OR HOT TAPS SHALL BE IN ACCORDANCE WITH CITY OF LEANDER STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION AND SHALL FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. A CITY OF LEANDER INSPECTOR MUST BE PRESENT WHEN THE CONTRACTOR MAKES A TAP, AND/OR ASSOCIATED TESTS. A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED. "SIZE ON SIZE" TAPS SHALL NOT BE PERMITTED UNLESS MADE BY THE USE OF AN APPROVED FULL-CIRCLE GASKETED TAPPING SLEEVE. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL TAPPING LOCATIONS. TAPPING PIPES PRIOR TO THE BRANCH BEING PLACED INTO SERVICE. THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACKFILL.
- FIRE HYDRANTS ON MAINS UNDER CONSTRUCTION SHALL BE SECURELY WRAPPED WITH A BLACK POLY WRAP BAG AND TAPED INTO PLACE. THE POLY WRAP SHALL BE WITHIN CITY EASEMENT OR PUBLIC RIGHT-OF-WAY, REGARDLESS OF THESE PLANS.
- THRUST BLOCKS OR RESTRAINTS SHALL BE IN ACCORDANCE WITH THE CITY OF LEANDER STANDARD SPECIFICATIONS AND REQUIRED AT ALL FITTINGS PER DETAIL OR MANUFACTURER'S RECOMMENDATION. ALL FITTINGS SHALL HAVE BOTH THRUST BLOCKS AND RESTRAINTS.
- ALL LEAD AND WATER MAINS SHALL HAVE "FIRE PROTECTION ASSEMBLY" OR "BLOW-OFF VALVE AND THRUST BLOCK" OR "BLOW-OFF VALVE AND THRUST RESTRAINTS". THRUST RESTRAINTS SHALL BE INSTALLED ON THE MINIMUM LAST THREE PIPE LENGTHS (STANDARD 20' LAYING LENGTH). ADDITIONAL THRUST RESTRAINTS MAY BE REQUIRED BASED UPON THE MANUFACTURER'S RECOMMENDATION AND/OR ENGINEER'S DESIGN.
- PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C900 OR 14" MIN. 305 PSI PRESSURE RATING). WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200PSI, AND SDR-19). COPPER PIPES AND FITTINGS ARE NOT ALLOWED IN THE PUBLIC RIGHT OF WAY. ALL PLASTIC PIPES FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW).
- ALL WATER MAINS SHALL BE DUCTILE IRON PIPE (AWWA C151/CS15) PRESSURE CLASS 350).
- ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 1/8" MIL POLYETHYLENE.
- LIFE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE COORDINATED WITH THE PUBLIC WORKS DEPARTMENT.
- ALL WATER METER BOXES SHALL BE:
 - SINGLE, 1" METER AND BELOW DW377-12-1CA, OR EQUAL
 - DUAL, 1" METERS AND BELOW DW389-12-1CA, OR EQUAL
 - 1.5" SINGLE METER DW146-12-1CA, OR EQUAL
 - 2" SINGLE METER DW1730F-12-1CA, OR EQUAL
- ALL WATER VALVE COVERS ARE TO BE PAINTED BLUE.

WASTEWATER

- CURVILINEAR WASTEWATER DESIGN LAYOUT IS NOT PERMITTED.
- MANHOLE TESTING SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS.
- MANHOLES SHALL BE COATED PER CITY OF AUSTIN SPL WW-511 (RAVEN 405 OR SPRAYWALL). PENETRATIONS TO EXISTING WASTEWATER MANHOLES REQUIRE THE CONTRACTOR TO RECALL THE ENTIRE MANHOLE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATIONS SECTION NO. 508.5.
- RECLAIMED AND RECYCLED WATER LINE SHALL BE CONSTRUCTED OF "PURPLE PIPE". ALL RECLAIMED AND RECYCLED WATER VALVE COVERS SHALL BE SQUARE AND PAINTED PURPLE.
- FORCE MAIN PIPES NEED TO HAVE SWEEPING WYES FOR JOINTS.

STREET AND DRAINAGE NOTES

- THE CITY OF LEANDER HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA). IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE ACCESSIBILITY TO ALL ACCESSIBILITY RELATED TO ACCESSIBILITY WITHIN THE LIMITS OF CONSTRUCTION SHOWN IN THESE PLANS. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARDS (TAS). BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 6" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 6" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE.
 - A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED BETWEEN THE CURB AND RIGHT-OF-WAY AND IN ALL DRAINAGE CHANNELS EXCEPT CHANNELS CUT IN STABLE ROCK.
 - DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT, INCLUDING GAS, ELECTRIC TELEPHONE, CABLE TV, ETC., SHALL BE A MINIMUM OF 36" BELOW SUBGRADE.
 - STREET RIGHT-OF-WAY SHALL BE GRADED AT A SLOPE OF 3% PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED.
 - DRAINAGE PIPE IN PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE REINFORCED CONCRETE PIPE MINIMUM CLASS III OF TONGUE AND GROOVE OR 6" IRONING JOINT DESIGN. CORRUGATED METAL PIPE IS NOT ALLOWED IN PUBLIC RIGHT OF WAY OR EASEMENTS.
 - THE CONTRACTOR SHALL PROVIDE TRUCK TRUCK STOP FOR PROOF ROLLING.
 - ALL STRIPING, WITH THE EXCEPTION OF STOP BARS, CROSS WALKS, CROSS WALKS AND ARROWS, IS TO BE TYPE II (WATER BASED). STOP BARS, CROSS WALKS, WORDS AND ARROWS REQUIRE TYPE I THERMOPLASTIC.
 - MANHOLE FRAMES, COVERS, VALVES, CLEAN-OUTS, ETC. SHALL BE RASSED TO GRADE PRIOR TO FINAL PAVEMENT CONSTRUCTION.
 - A STOP BAR SHALL BE PLACED AT ALL STOP SIGN LOCATIONS.
 - THE GEOTECHNICAL ENGINEER SHALL SPECIFY THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SUBGRADE. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISIONS OF THE APPROVED CONSTRUCTION PLANS.
 - GEOTECHNICAL INVESTIGATION INFORMATION AND PAVEMENT RECOMMENDATIONS WERE PROVIDED BY _____ PAVEMENT RECOMMENDATIONS ARE AS FOLLOWS:
 - PROVIDE RECOMMENDATIONS.
 - A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL, CITY OF LEANDER STANDARD DETAILS AND TEXAS DEPARTMENT OF TRANSPORTATION CRITERIA, SHALL BE SUBMITTED TO THE CITY

- OF LEANDER FOR REVIEW AND APPROVAL PRIOR TO ANY PARTIAL OR COMPLETE ROADWAY CLOSURES. TRAFFIC CONTROL PLANS MUST BE SITE SPECIFIC AND SIGNED AND REGISTERED PROFESSIONAL ENGINEER.
- ALL LANE CLOSURES SHALL OCCUR ONLY DURING THE HOURS OF 9 AM AND 4 PM UNLESS OTHERWISE NOTED ON THE PLANS. ANY NIGHT TIME LANE CLOSURES REQUIRE APPROVAL OF THE CITY ENGINEER AND SHALL OCCUR BETWEEN THE HOURS OF 8 PM AND 6 AM. LANE CLOSURES OBSERVED BY THE CITY DURING PEAK HOURS OF 6 AM TO 9 AM OR 4 PM TO 7 PM WILL BE SUBJECT TO A FINE AND/OR SUBSEQUENT ISSUANCE OF WORK STOPPAGE.
- TEMPORARY ROCK CRUSHING IS NOT ALLOWED. ALL SOURCES OF FLEXIBLE BASE MATERIAL ARE REQUIRED TO BE APPROVED BY THE CITY. PRIOR TO BASE PLACEMENT ALL CURRENT TRIAXIAL TEST REPORTS FOR PROPOSED STOCK PILES ARE TO BE SUBMITTED TO THE CITY CONSTRUCTION INSPECTOR FOR REVIEW AND APPROVAL.
- AT ROAD INTERSECTIONS THAT HAVE A VALLEY GUTTER, THE CROWN TO THE INTERSECTING ROAD WILL BE CULMINATED AT A DISTANCE OF 40 FEET FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.
- NO PONDING OF WATER SHALL BE ALLOWED TO COLLECT ON OR NEAR THE INTERSECTION OF PRIVATE DRIVEWAYS AND PUBLIC STREETS.
- RECONSTRUCTION OF THE DRIVEWAY APPROACH SHALL BE AT THE CONTRACTOR'S EXPENSE.
- ALL DRIVEWAY APPROACHES SHALL HAVE A UNIFORM 2% PERCENT SLOPE WITHIN THE PUBLIC RIGHT OF WAY UNLESS APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT.
- IMPROVEMENTS THAT INCLUDE RECONSTRUCTION OF AN EXISTING TYPE II DRIVEWAY SHALL BE DONE IN A MANNER WHICH RETAINS OPERATIONS OF NOT LESS THAN HALF OF THE DRIVEWAY TO REMAIN OPEN AT ALL TIMES. FULL CLOSURE OF SUCH DRIVEWAY CAN BE CONSIDERED WITH WRITTEN AUTHORIZATION OBTAINED BY THE CONTRACTOR FROM ALL PROPERTY OWNERS AND ACCESS EASEMENT RIGHT HOLDERS ALLOWING THE FULL CLOSURE OF THE DRIVEWAY.
- CONTRACTOR MUST CLEAR FIVE (5) FEET BEYOND ALL PUBLIC RIGHT OF WAY TO PREVENT FUTURE VEGETATIVE GROWTH INTO THE SIDEWALK AREAS.
- SLOPE OF NATURAL GROUND ADJACENT TO THE PUBLIC RIGHT OF WAY SHALL NOT EXCEED 3:1 SLOPE. IF A 3:1 SLOPE IS NOT POSSIBLE, SLOPE PROTECTION OR RETAINING WALL MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE.
- THERE SHALL BE NO WATER, WASTEWATER OR DRAINAGE APPURTENANCES, INCLUDING BUT NOT LIMITED TO VALVES, FITTINGS, METERS, CLEAN-OUTS, MANHOLES, OR VAULTS IN ANY DRIVEWAY, SIDEWALK, TRAFFIC OR PEDESTRIAN AREA.
- PUBLIC SIDEWALKS SHALL NOT USE CURB INLETS AS PART OF WALKING SURFACE. SIDEWALKS SHALL USE TRAFFIC CONTROL BOXES, METERS, CHECK VALVE VAULTS, COMMUNICATION VAULTS, OR OTHER BURIED OR PARTIALLY BURIED INFRASTRUCTURE AS A VEHICULAR OR PEDESTRIAN SURFACE.
- ALL WET UTILITIES SHALL BE INSTALLED AND ALL DENSITIES MUST HAVE PASSED INSPECTIONS PRIOR TO THE INSTALLATION OF DRY UTILITIES.
- DRY UTILITIES SHALL BE INSTALLED AFTER SUBGRADE IS CUT AND BEFORE THE FIRST COURSE OF BASE. NO TRENCHING COMPACTED BASE. IF NECESSARY DRY UTILITIES INSTALLED AFTER FIRST COURSE BASE SHALL BE BORED ACROSS THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY.
- A MINIMUM OF SEVEN (7) DAYS OF CURE TIME IS REQUIRED FOR HMAc PRIOR TO THE INTRODUCTION OF VEHICULAR TRAFFIC TO ALL STREETS.

TRENCH SAFETY NOTES

- TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT ARE DESCRIBED IN ITEM 505 "TRENCH SAFETY SYSTEMS" OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATION SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

GRADING NOTES

- POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
- THE CONTRACTOR SHALL CONSTRUCT EARTHEN EMBANKMENTS WITH SLOPES NO STEEPER THAN 3:1 AND COMPACT SOIL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
- AREAS OF SOIL DISTURBANCE ARE LIMITED TO GRADING AND IMPROVEMENTS SHOWN. ALL OTHER AREAS WILL NOT BE DISTURBED.

BENCHMARK NOTES

- BEARINGS ARE BASED ON TEXAS COORDINATE SYSTEM OF 1983, CENTRAL ZONE (NAD 83 (2011)). ALL DISTANCES SHOWN ARE SURFACE VALUES REPRESENTED BY US SURVEY FEET BASED ON A SURFACE-TO-GROUND COMBINED ADJUSTMENT OF NO.059860019597256
- IRON ROD 502: 1 - 1 INCH IRON ROD FOUND WITH CAP STAMPED "2345"
 SURFACE NORTHING: 1020480.88
 SURFACE EASTING: 3087853.08
 GRID NORTHING: 10202890.46
 GRID EASTING: 3087420.94
 ELEVATION: 1004.61'
- IRON ROD 503: 1 - 1 INCH IRON ROD FOUND WITH CAP STAMPED "2345"
 SURFACE NORTHING: 10204412.76
 SURFACE EASTING: 3087886.93
 GRID NORTHING: 10202684.34
 GRID EASTING: 3087454.68
 ELEVATION: 1004.46'
- IRON ROD 505: 1 - 1 INCH IRON ROD FOUND WITH CAP STAMPED "2345789"
 SURFACE NORTHING: 10204447.32
 SURFACE EASTING: 3087919.59
 GRID NORTHING: 10203018.90
 GRID EASTING: 3087487.34
 ELEVATION: 1004.21'

ADDITIONAL NOTES

- ALL UTILITY LINES ARE PROPOSED TO BE LOCATED UNDERGROUND.

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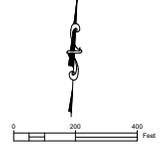
CITY OF LEANDER GENERAL NOTES

for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
29292

SHEET
04
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WARNING!
 There are existing water pipelines, underground telephone cables and other above and below ground utilities in the vicinity of this project. The Contractor shall contact all appropriate companies prior to any construction in the area and determine if any conflicts exist. If so, the Contractor shall immediately contact the Engineer who shall revise the design as necessary.

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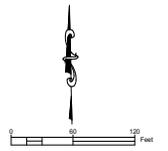
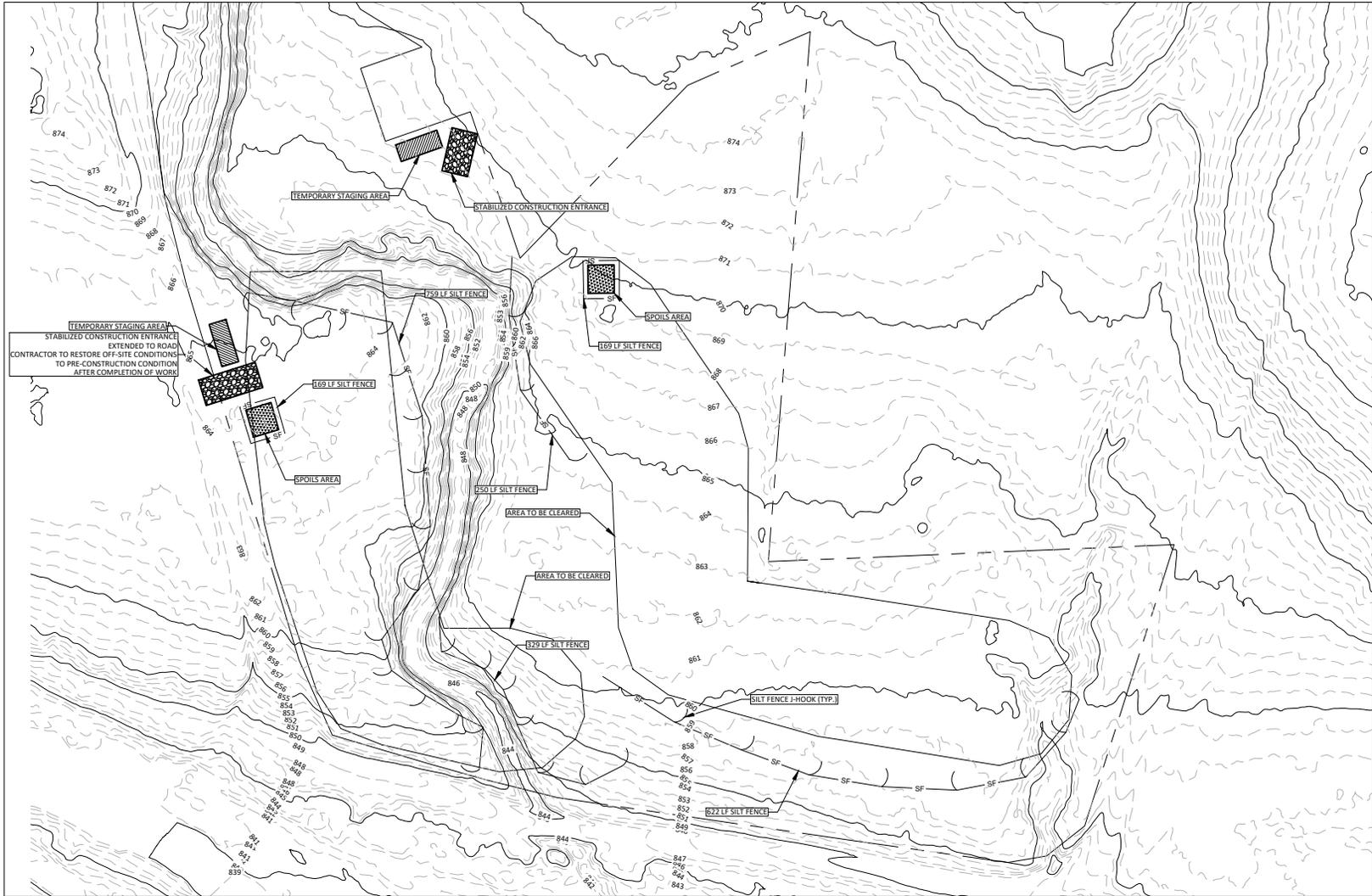


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LOCATION MAP
 for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
 22952
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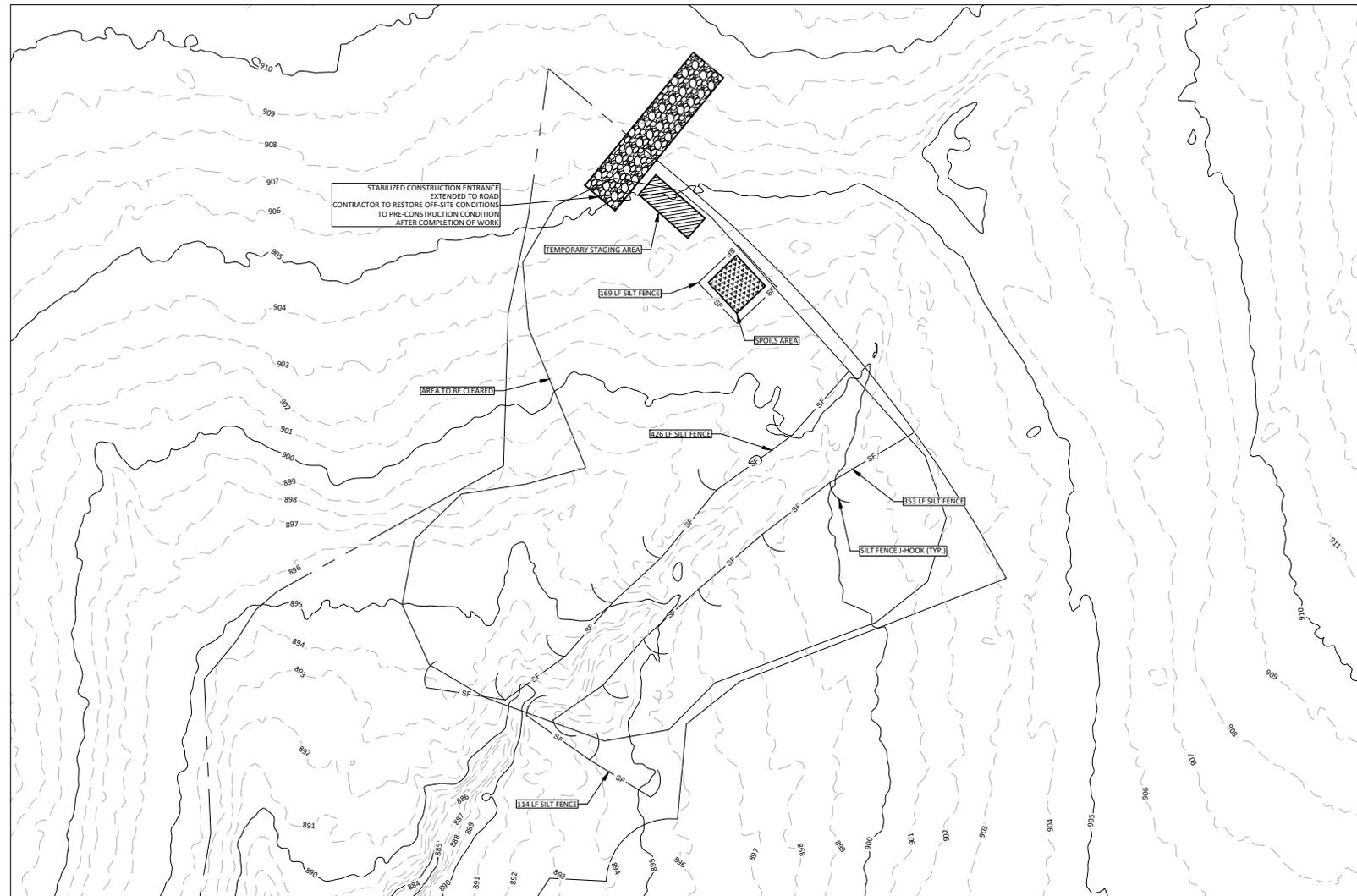


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 STATE: TEXAS TPEM No. 10063370
 SERVICES: >>ENGINEERS >>PLANNERS >>SURVEYORS

EROSION CONTROL PLAN (1 OF 2)
 for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
 22952
SHEET
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WARNING!
 There are existing water pipelines, underground telephone cables and other above and below ground utilities in the vicinity of this project. The Contractor shall contact all appropriate companies prior to any construction in the area and determine if any conflicts exist. If so, the Contractor shall immediately contact the Engineer who shall revise the design as necessary.

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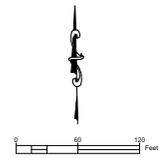
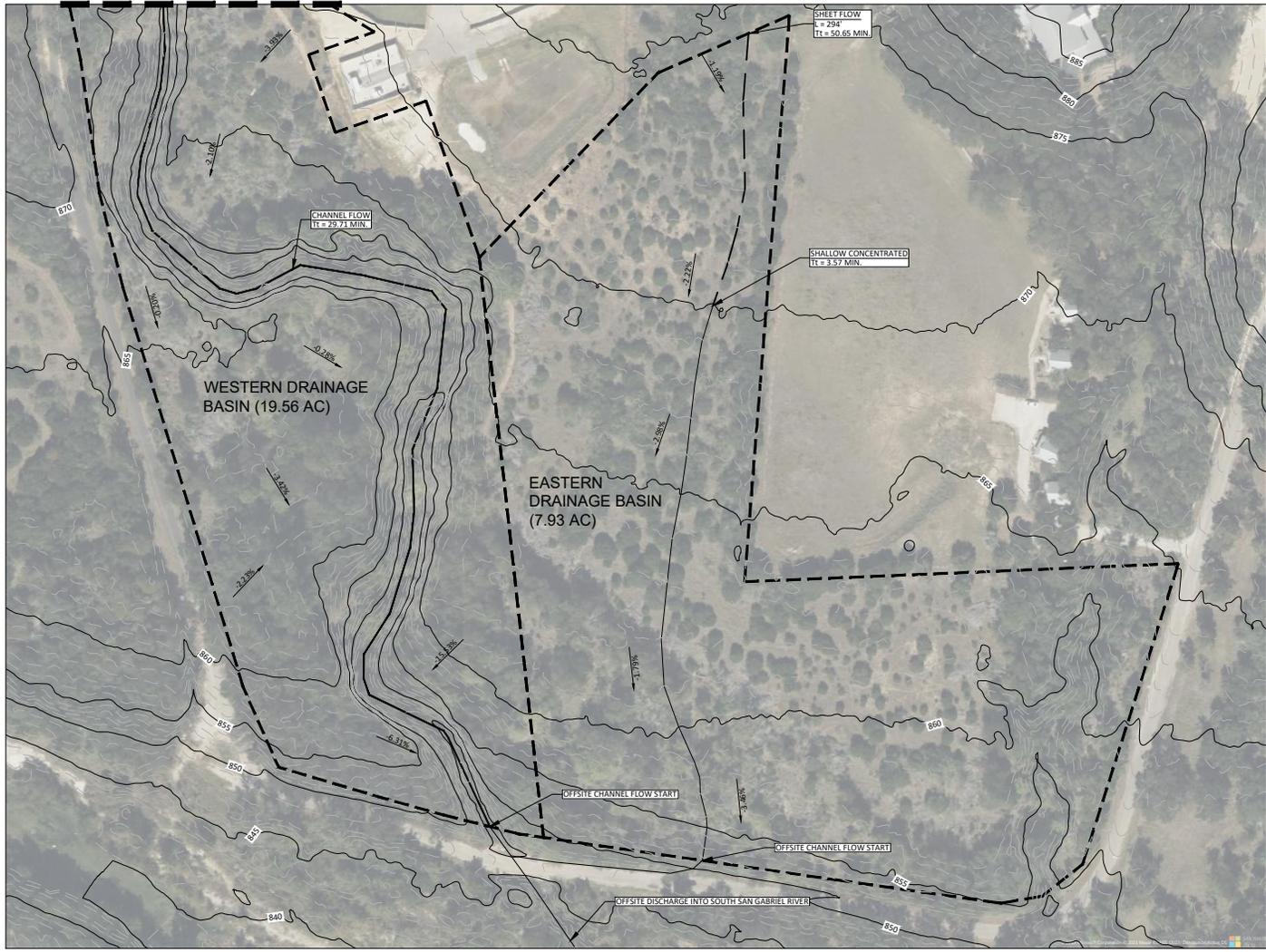
EROSION CONTROL PLAN (2 OF 2)
 for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
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 of 12

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MATCH LINE SHEET 7

| Basin | Area (s.f.) | Area (ac.) | Area (sq. mi.) | Sheet | | | | | | | | Shallow Concentrated - Unpaved | | | | Channel/Storm Drain | | | | Total | |
|---------|-------------|------------|----------------|-----------------|----------------|--------|-----|--------|-----------|----------------|-----------------|--------------------------------|--------|-----------|--------------|---------------------|---------|------------------------|----------------------|------------------|----------|
| | | | | Elev-Start (ft) | Elev-Stop (ft) | L (ft) | n | P (in) | s (ft/ft) | Tt-sheet (min) | Elev-Start (ft) | Elev-Stop (ft) | L (ft) | s (ft/ft) | TtSCFu (min) | L (ft) | Q (cfs) | V (ft ³ /s) | A (ft ²) | Tt-channel (min) | Tc (min) |
| Eastern | 345582 | 7.93 | 0.012 | 874.6 | 870 | 294 | 0.4 | 3.94 | 0.015646 | 50.59 | 870 | 851.65 | 602.19 | 0.030472 | 3.56 | 0 | 0 | 0 | 0 | 54.15 | 32.49 |
| Western | 852099 | 19.56 | 0.03 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 3494.33 | 50.59 | 1.96 | 57 | 29.71 | 29.71 | 17.83 |



| 2 Year Event | | | | |
|------------------|---------------------|----------------------|-------------|-------------------|
| Hydrolic Element | Drainage Area (Ac.) | Peak Discharge (CFS) | Volume (IN) | Intensity (IN/HR) |
| Eastern Basin | 7.93 | 4.32 | 0.55 | 2.06 |
| Western Basin | 19.56 | 12.48 | 0.64 | 2.9 |

| 10 Year Event | | | | |
|------------------|---------------------|----------------------|-------------|-------------------|
| Hydrolic Element | Drainage Area (Ac.) | Peak Discharge (CFS) | Volume (IN) | Intensity (IN/HR) |
| Eastern Basin | 7.93 | 7.76 | 0.98 | 3.08 |
| Western Basin | 19.56 | 23.83 | 1.20 | 4.27 |

| 25 Year Event | | | | |
|------------------|---------------------|----------------------|-------------|-------------------|
| Hydrolic Element | Drainage Area (Ac.) | Peak Discharge (CFS) | Volume (IN) | Intensity (IN/HR) |
| Eastern Basin | 7.93 | 10.52 | 1.33 | 3.74 |
| Western Basin | 19.56 | 31.53 | 1.61 | 5.2 |

| 100 Year Event | | | | |
|------------------|---------------------|----------------------|-------------|-------------------|
| Hydrolic Element | Drainage Area (Ac.) | Peak Discharge (CFS) | Volume (IN) | Intensity (IN/HR) |
| Eastern Basin | 7.93 | 16.70 | 2.11 | 4.9 |
| Western Basin | 19.56 | 51.72 | 2.64 | 6.78 |

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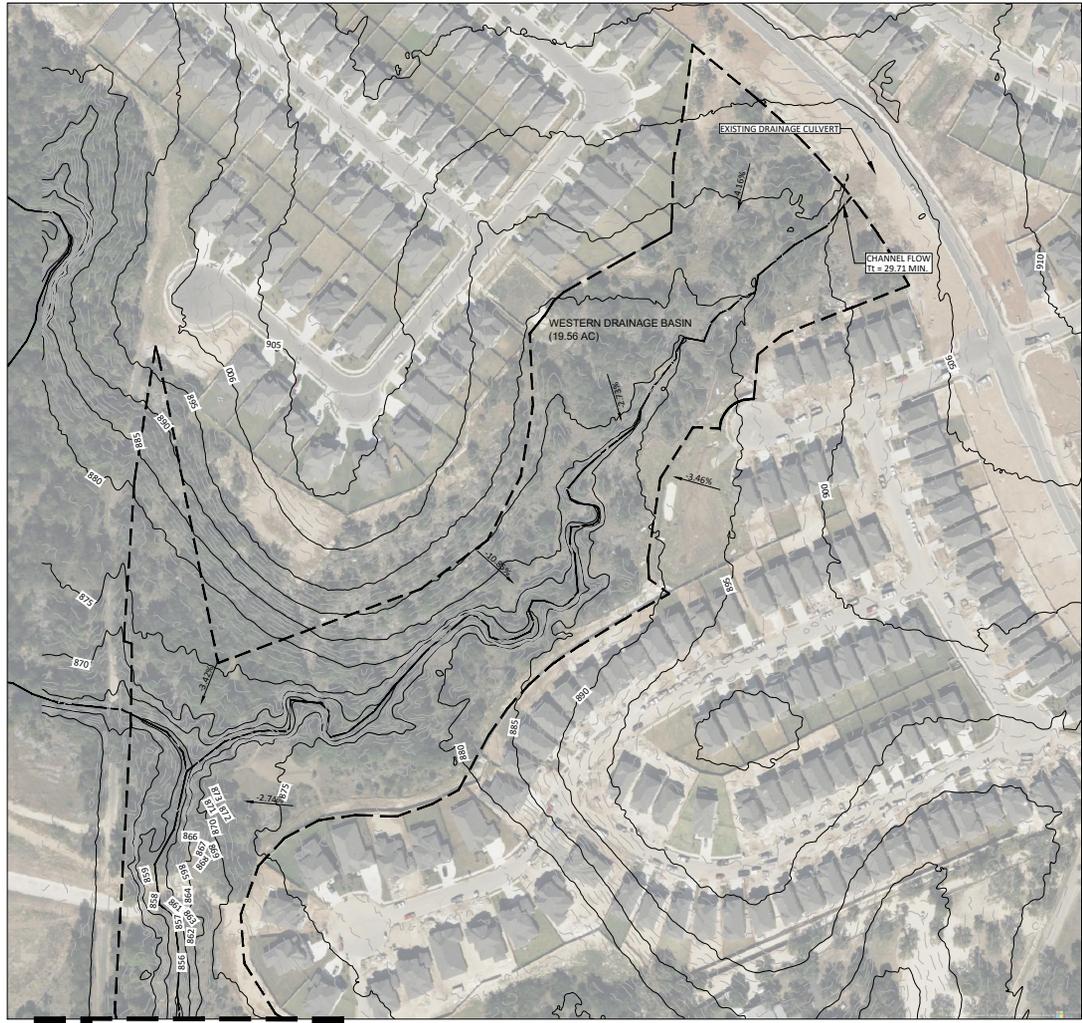
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EXISTING DRAINAGE MAP (1 OF 2)
 for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
 22952
SHEET
08
 of 12

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| Basin | Area (a.f.) | Area (ac) | Area (sq. mi.) | Time of Concentration | | | | | | | Shallow Concentrated - Unpaved | | | | Channel/Storm Drain | | | | Total | | |
|---------|-------------|-----------|----------------|-----------------------|----------------|--------|-----|--------|----------|----------------|--------------------------------|----------------|--------|----------|---------------------|--------|---------|----------|----------------------|------------------|----------|
| | | | | Elev-Start (ft) | Elev-Stop (ft) | L (ft) | n | P (ft) | s (ft/s) | Tt-sheet (min) | Elev-Start (ft) | Elev-Stop (ft) | L (ft) | s (ft/s) | Tt-sheet (min) | L (ft) | Q (cfs) | V (ft/s) | A (ft ²) | Tt-channel (min) | Tc (min) |
| Eastern | 34582 | 7.93 | 0.012 | 874.6 | 870 | 294 | 0.4 | 3.94 | 0.015646 | 50.59 | 870 | 851.65 | 600.19 | 0.030472 | 3.56 | 0 | 0 | 0 | 0 | 54.15 | 32.49 |
| Western | 852099 | 19.56 | 0.03 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 3494.33 | 50.59 | 1.96 | 57 | 29.71 | 29.71 | 17.83 |



2 Year Event

| Hydrolic Element | Drainage Area (Ac.) | Peak Discharge (CFS) | Volume (IN) | Intensity (IN/HR) |
|------------------|---------------------|----------------------|-------------|-------------------|
| Eastern Basin | 7.93 | 4.32 | 0.55 | 2.06 |
| Western Basin | 19.56 | 12.48 | 0.64 | 2.3 |

10 Year Event

| Hydrolic Element | Drainage Area (Ac.) | Peak Discharge (CFS) | Volume (IN) | Intensity (IN/HR) |
|------------------|---------------------|----------------------|-------------|-------------------|
| Eastern Basin | 7.93 | 7.76 | 0.98 | 3.06 |
| Western Basin | 19.56 | 23.39 | 1.20 | 4.27 |

25 Year Event

| Hydrolic Element | Drainage Area (Ac.) | Peak Discharge (CFS) | Volume (IN) | Intensity (IN/HR) |
|------------------|---------------------|----------------------|-------------|-------------------|
| Eastern Basin | 7.93 | 10.52 | 1.33 | 3.74 |
| Western Basin | 19.56 | 31.53 | 1.61 | 5.2 |

100 Year Event

| Hydrolic Element | Drainage Area (Ac.) | Peak Discharge (CFS) | Volume (IN) | Intensity (IN/HR) |
|------------------|---------------------|----------------------|-------------|-------------------|
| Eastern Basin | 7.93 | 16.70 | 2.11 | 4.9 |
| Western Basin | 19.56 | 51.72 | 2.64 | 6.78 |

MATCH LINE SHEET 6

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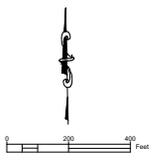
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EXISTING DRAINAGE MAP (2 OF 2)

for
ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
CITY OF LIBERTY HILL

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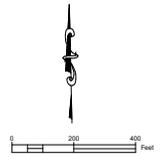


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FLOODZONE MAP
 for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
 22952
SHEET
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TREE CLEARANCE AREAS
 for
 ANGEL SPRINGS
 WILLIAMSON COUNTY, TEXAS
 FOR
 CITY OF LIBERTY HILL

Project No:
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 of 12

Attachment J – BMPs for Upgradient Stormwater

The BMPs for upgradient off-site stormwater are not included in the permanent measure to prevent pollution of stormwater. The site drainage will remain unchanged by the proposed clearing activity and test well drilling. Therefore, there are no provisions for treatment of off-site stormwater in this plan.

Attachment K – BMPs for On-site Stormwater

The BMPs for on-site stormwater are not included in the permanent measure to prevent pollution of stormwater. The site drainage will remain unchanged by the proposed clearing activity and test well drilling. No impervious cover will be constructed for this project. Therefore, there are no provisions for treatment of on-site stormwater in this plan.

Attachment L – BMPs for Surface Streams

There are no additional BMPs for minimizing pollutants from entering surface streams. No permanent BMPs are necessary as the site drainage will remain unchanged. Temporary BMPs have been designed to reduce the potential pollutant load during tree clearing activities. These measures will minimize surface stream contamination.

Attachment M – Construction Plans

No permanent BMPs will be used as the site drainage will remain unchanged after tree clearing activities are completed.

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

N/A

Attachment P – Measures for Minimizing Surface Stream Contamination

There are no additional BMPs for minimizing pollutants from entering surface streams. The site drainage will remain unchanged after construction activities are completed, therefore no Permanent BMPs are necessary. Temporary BMPs have been designed to reduce the potential pollutant load during tree clearing activities. These measures will minimize surface stream contamination.

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: Curtis Steger

Date: 08/09/2023

Signature of Customer/Agent:



Regulated Entity Name: City of Liberty Hill

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.

Attachment A – Spill Response Actions

No on-site containment procedures are provided for in this WPAP, because fuels and hazardous substances will be provided by an off-site facility.

The objective of this section is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees. The following steps will help reduce the storm water impacts of leaks and spills:

Education

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

General Measures

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

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

Cleanup

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

Minor Spills

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

1. Contain spread of the spill.
2. Notify the project foreman immediately.
3. If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
4. If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

5. If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

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

More information on spill rules and appropriate responses is available on the TCEQ website at: <http://www.tceq.texas.gov/response/>

Vehicle and Equipment Maintenance

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

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

Vehicle and Equipment Fueling

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

If a spill should occur, the person responsible for the spill should contact the TCEQ at (512) 339-2929 or call 911. Soil contaminated by spills that occur on-site will be removed and disposed at an approved disposal site.

Attachment B – Potential Sources of Contamination

- Hydraulic fluid and diesel fuel
- Portable toilet systems (sanitary waste)
- Trash from construction workers
- Inadequate maintenance of temporary water pollution abatement measures
- Stock piles or spoils of materials

Attachment C – Sequence of Major Activities

The following sequence of activities is suggested. The sequence of construction will take place in one phase. The actual sequence may vary slightly depending on the contractor or weather conditions.

1. Construction activities will commence with the installation of the required silt fences, stabilized construction entrance, and temporary staging area. The total area disturbed by establishing temporary erosion controls is approximately 23,360 s.f. [0.54 Ac.] and represents 1.9% of the site. **Silt fence and stabilized construction entrance (S.C.E.) are the control measures.**
2. Areas of tree and brush cover will be cleared to perform studies to determine well sites. Spoils of this material may be placed at a location on the project site or properly removed off-site as directed by the contractor and approved by the engineer. If remaining on-site, these spoils and any other loose granular material will be enclosed by a silt fence. The total area of tree clearing with possible soil disturbance is approximately 350,899 s.f. [8.05 Ac.]. This represents 29.3% of the site. **Silt fence and S.C.E. are the control measures.**
3. After the geophysical hydro-geological testing has been completed, any disturbed areas will be hydromulched or seeded. Up to 350,899 s.f. [8.05 Ac.] of the site will be seeded. This represents 29.3% of the site. **Silt fence is the control measure.**
4. Temporary sediment and erosion controls will be removed after the revegetation is completed.

Attachment D – Temporary Best Management Practices and Measures

All on-site runoff will be contained within the proposed silt fence. In addition, a temporary spoils area and construction staging area have been located on the site. Off-site runoff will be unaffected by on-site activity as all on-site runoff affected by construction will be captured by the proposed silt fence. The stabilized construction entrance will reduce the amount of sediment leaving the site. These temporary BMPs will trap most pollutants and prevent them from entering off-site surface streams, sensitive features, or the aquifer.

Attachment F – Structural Practices

No structural practices will be utilized to divert flows away from exposed soils or to store flows. Silt fences will be used to limit the runoff discharge of sediments from exposed areas on the site.

Attachment G – Drainage Area Map

Please see Sheets 8 and 9, “Existing Drainage Map (1 of 2)” and “Existing Drainage Map (2 of 2)”, respectively, from the “Site Plan” attachment in the “Contributing Zone Plan Application” section.

The largest area disturbed in a common drainage area is 3.16 acres. Construction will be organized to minimize areas of disturbance and limit disturbance of drainage areas to less than ten acres.

Attachment I – Inspection and Maintenance for BMPs

Silt Fence

1. Inspect all fences weekly and after any rainfall.
2. Remove sediment when buildup reaches 6 inches, or install a second line of fencing parallel to the old fence.
3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
4. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.

Stabilized Construction Entrance

1. Inspection should be made weekly or after each rainfall event and repair or replacement should be made promptly as needed by the contractor.
2. All sediment spilled, dropped, washed or tracked on to public rights-of-way should be removed immediately by contractor.
3. All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Construction Staging Area

1. Inspection should be made weekly of the staging area to ensure all temporary BMPs are installed and functioning. Verify that any materials stored in the staging area are not exposed to stormwater runoff.
2. If the staging area is paved, the area is to be swept on a regular basis to keep dust down.

NOTE: This Inspection and Maintenance Plan was created and designed by the engineer of these BMPs. Maintenance should be followed in accordance with this plan in order to keep the BMPs operating correctly.

Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Vehicular traffic should be limited to areas of the project site where construction will take place or where existing driveway and parking are provided. The contractor should endeavor to preserve existing vegetation as much as practicable to reduce erosion and lower the cost associated with stabilization. **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.**

All disturbed areas shall be stabilized as described below:

Except as provided for below, 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.

- A. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or frozen ground conditions, stabilization measures shall be initiated as soon as practicable.
- B. 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.
- C. In areas experiencing drought, where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

Stabilization measures are described as follows:

All disturbed grass areas should be planted in drought resistant species normally grown in native vegetated areas. Grass areas may be sodded, plugged, sprigged or seeded except that solid sod shall be used in swales or other areas subject to erosion. All planted areas shall be provided with a readily available water supply and watered as necessary to ensure continuous healthy growth and development. Maintenance shall include the replacement of all dead plant material if that material was used to meet the requirements of this section.

Notice of Intent

The Notice of Intent (NOI) will be submitted prior to the start of construction.

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

I _____ David Thomison _____,
Print Name

_____ Director of Public Works _____,
Title - Owner/President/Other

of _____ City of Liberty Hill _____,
Corporation/Partnership/Entity Name

have authorized _____ Curtis Steger _____
Print Name of Agent/Engineer

of _____ Steger & Bizzell Engineering _____
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:

David Thomson
Applicant's Signature

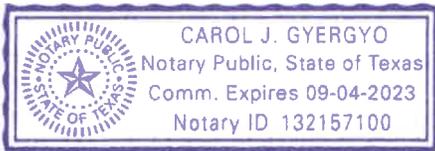
8-11-23
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared David Thomson 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 11TH day of August 2023



Carol J Gyergo
NOTARY PUBLIC
Carol J Gyergo
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 09/04/2023

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: City of Liberty Hill

Regulated Entity Location: Liberty Hill, TX 78642

Name of Customer: City of Liberty Hill

Contact Person: David Thomison

Phone: 512-673-6002

Customer Reference Number (if issued): CN 602959033

Regulated Entity Reference Number (if issued): RN 100824739

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

12100 Park 35 Circle

Mail Code 214

Building A, 3rd Floor

P.O. Box 13088

Austin, TX 78753

Austin, TX 78711-3088

(512)239-0357

Site Location (Check All That Apply):

Recharge Zone

Contributing Zone

Transition Zone

| Type of Plan | Size | Fee Due |
|---|-------------|----------|
| Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling | Acres | \$ |
| Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks | Acres | \$ |
| Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential | 27.49 Acres | \$ 6,500 |
| 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: David Thomison

Date: 8-11-23

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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



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) | Follow this link to search for CN or RN numbers in Central Registry** | 3. Regulated Entity Reference Number (if issued) |
| CN 602959033 | | RN 100824739 |

SECTION II: Customer Information

| | | | | |
|--|---------------------------------------|--|---|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | |
| <input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | |
| <i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i> | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | <i>If new Customer, enter previous Customer below:</i> | |
| City of Liberty Hill | | | | |
| 7. TX SOS/CPA Filing Number | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | 10. DUNS Number (if applicable) |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | <input type="checkbox"/> Individual | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |
| Government: <input checked="" 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 checked="" type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher | | | <input type="checkbox"/> Yes <input checked="" 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: | 926 Loop 332 | | | |
| | City | Liberty Hill | State | TX |
| | ZIP | 78642 | ZIP + 4 | 4399 |
| 16. Country Mailing Information (if outside USA) | | | 17. E-Mail Address (if applicable) | |
| | | | | |
| 18. Telephone Number | | 19. Extension or Code | | 20. Fax Number (if applicable) |
| | | | | |

SECTION III: Regulated Entity Information

| | | | | | | | | | |
|---|--|------|--|-------|--|-----|--|---------|--|
| 21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.) | | | | | | | | | |
| <input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information | | | | | | | | | |
| <i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i> | | | | | | | | | |
| 22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.) | | | | | | | | | |
| Angel Springs | | | | | | | | | |
| 23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i> | | | | | | | | | |
| | | | | | | | | | |
| | | City | | State | | ZIP | | ZIP + 4 | |
| 24. County | | | | | | | | | |

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

| | | | | | | | | | |
|--|---------|--|------------------------------|--|---------|--|-------|---------|------|
| 25. Description to Physical Location: | | 240 feet southeast of intersection of Rend Dr. and Larkspur Blvd and approximately 3,750 feet southeast of the Liberty Hill City limits. | | | | | | | |
| 26. Nearest City | | | | State | | Nearest ZIP Code | | | |
| Liberty Hill | | | | TX | | 78642 | | | |
| <i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i> | | | | | | | | | |
| 27. Latitude (N) In Decimal: | | 30.622771 | | 28. Longitude (W) In Decimal: | | -97.842800 | | | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | | | | |
| 30 | 37 | 22 | 97 | 50 | 34.1 | | | | |
| 29. Primary SIC Code (4 digits) | | 30. Secondary SIC Code (4 digits) | | 31. Primary NAICS Code (5 or 6 digits) | | 32. Secondary NAICS Code (5 or 6 digits) | | | |
| 4941 | | | | 221310 | | | | | |
| 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) | | | | | | | | | |
| City of Liberty Hill Water Distribution | | | | | | | | | |
| 34. Mailing Address: | | 926 Loop 332 | | | | | | | |
| | | | | | | | | | |
| | | City | Liberty Hill | State | TX | ZIP | 78642 | ZIP + 4 | 4399 |
| 35. E-Mail Address: | | dthomison@libertyhilltx.gov | | | | | | | |
| 36. Telephone Number | | | 37. Extension or Code | | | 38. Fax Number (if applicable) | | | |
| (512) 673-6002 | | | | | | () - | | | |

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.

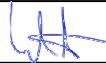
| | | | | |
|--|--|---|--|---|
| <input type="checkbox"/> Dam Safety | <input type="checkbox"/> Districts | <input checked="" type="checkbox"/> Edwards Aquifer | <input type="checkbox"/> Emissions Inventory Air | <input type="checkbox"/> Industrial Hazardous Waste |
| | | RN100824739 | | |
| <input type="checkbox"/> Municipal Solid Waste | <input type="checkbox"/> New Source Review Air | <input type="checkbox"/> OSSF | <input type="checkbox"/> Petroleum Storage Tank | <input checked="" type="checkbox"/> PWS |
| | | | | 2460013 |
| <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: |
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SECTION IV: Preparer Information

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|-----------------------------|----------------------|-----------------------|---------------------------------|-------------------|-----------|
| 40. Name: | Curtis Steger | | | 41. Title: | President |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address | | |
| (512) 930-9412 | 126 | () - | curtis.steger@stegerbizzell.com | | |

SECTION V: Authorized Signature

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

| | | | |
|-------------------------|---|-------------------|-------------------|
| Company: | Steger Bizzell | Job Title: | President |
| Name (In Print): | Curtis Steger | Phone: | (512) 930- 9412 |
| Signature: |  | Date: | 8/9/2023 |



NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER AND DRIVER'S LICENSE NUMBER

**SPECIAL WARRANTY DEED DEDICATING PROPERTY
AS PUBLIC PARKLAND AND WATER SUPPLY**

THE STATE OF TEXAS §
 §
COUNTY OF WILLIAMSON §

LARKSPUR COMMUNITY DEVELOPMENT, INC. (“Grantor”), for and in consideration of the sum of TEN (\$10.00) DOLLARS and other good and valuable consideration to it paid, by the CITY OF LIBERTY HILL, TEXAS, a Type A general law municipality (“Grantee”) whose address is 926 Loop 332, Liberty Hill, Texas 78642, the receipt of which is hereby acknowledged and confessed, has Granted, Sold and Conveyed, and by these presents does Grant, Sell and Convey, unto Grantee as dedicated public parkland and for all other purposes for which a public parkland is commonly used, including installing, repairing, maintaining, altering, replacing, relocating and operating facilities in, into, upon, over, across, and under the parkland, and for water, including availability, exploration, capture, conservation, and installation of water facilities; in accordance with the Texas Water Code and the Texas Parks and Wildlife Code; all that certain tract or parcel of real estate, lying and being situated in the County of Williamson, State of Texas, described as a 60.332 acres of land situated in Williamson County, Texas, and more particularly described on Exhibit "A" attached hereto (the “Property”), subject, however, to the following reservations from and exceptions to conveyance and warranty:

Taxes and assessments by any taxing authority prorated to the date of closing for the year 2023 and thereafter, together with subsequent taxes and assessments by any taxing authority for prior years due to change in land usage or ownership;

Easements, restrictions, reservations, covenants, and rights-of-way of record and/or apparent on the Property;

Any discrepancies, conflicts, or shortages in area or boundary lines, or any encroachments, protrusions or any overlapping of improvements;

Utility easements and prescriptive rights visible and apparent on the ground, including easements, or claims of easements, which are not recorded in the public records;

Rights to oil, gas and other minerals of every kind and character in, on and under the property, together with the rights, privileges and immunities relating thereto.

To have and to hold the Property, together with all and singular the rights and

City of Liberty Hill – Larkspur Parkland Dedication

1

appurtenances thereto in anywise belonging unto Grantee, its successors and assigns forever, and it does hereby bind itself, its successors and assigns, to warrant and forever defend, all and singular, the Property unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof, by and through Grantor, but not otherwise.

Grantee further acknowledges and agrees that to the maximum extent permitted by law, the sale of the Property as is made “AS IS” AND WITH ALL FAULTS and Grantor has not made, does not make and specifically negates and disclaims any representations, warranties, promises, covenants, agreements or guarantees of any kind or character whatsoever, whether express or implied concerning or with respect to the Property regarding the Property’s compliance with any environmental protection, pollution or land use laws, rules, regulations, orders or requirements, including the existence of hazardous substances in or on the Property, whether in the past or present.

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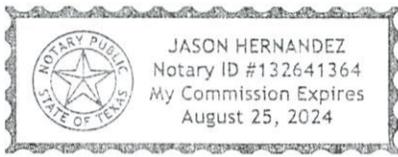
Dated: June 9, 2023.

LARKSPUR COMMUNITY DEVELOPMENT,
INC.
GRANTOR

By: *Terry LaGrone*
Terry LaGrone, Authorized Signatory

THE STATE OF TEXAS §
 §
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on the 9th of June, 2023, by Terry LaGrone in his capacity as Authorized Signatory of Larkspur Development Community, Inc., a Texas corporation, on behalf of said corporation.



Jason Hernandez
Notary Public – State of Texas

ACCEPTED AND ACKNOWLEDGED:

City of Liberty Hill, Texas,
a Texas general law municipality

By: *Liz Branigan*
Liz Branigan
Mayor

THE STATE OF TEXAS §
 §
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on the 15th day of June, 2023, by Liz Branigan, Mayor of the City of Liberty Hill, Texas, a Texas general law municipality, on behalf of said municipality.

Lisa Elaine Simpson
NOTARY PUBLIC – STATE OF TEXAS

After Recording Return to Grantee's Address:

City Secretary
City of Liberty Hill

City of Liberty Hill – Larkspur Parkland Dedication
P.O. Box 1920
926 Loop 332
Liberty Hill, Texas 78642



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EXHIBIT A
TO SPECIAL WARRANTY DEED

LEGAL DESCRIPTION OF THE PROPERTY

DESCRIPTION OF 60.332 ACRES OF LAND SITUATED IN WILLIAMSON COUNTY, TEXAS, OUT OF THE HENRY GARMES SURVEY, ABSTRACT NO. 269 AND THE WILLIAM H. MONROE SURVEY, ABSTRACT NO. 453, BEING PORTIONS OF THAT CERTAIN 230.70 ACRE TRACT AND THAT CERTAIN 327.79 ACRE TRACT DESCRIBED IN A DEED OF RECORD TO LARKSPUR COMMUNITY DEVELOPMENT, INC. IN DOCUMENT NO. 2016088036, THAT CERTAIN 7.113 ACRE TRACT DESCRIBED IN A DEED OF RECORD TO LARKSPUR COMMUNITY DEVELOPMENT, INC. IN DOCUMENT NO. 2017023324, AND THAT CERTAIN 10.00 ACRE TRACT DESCRIBED IN A DEED OF RECORD TO LARKSPUR COMMUNITY DEVELOPMENT, INC. IN DOCUMENT NO. 2018078678, ALL RECORDED IN THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS.

AFFIDAVIT AS TO DEBTS, LIENS AND POSSESSION

THE STATE OF TEXAS §
 §
COUNTY OF WILLIAMSON §

BEFORE ME, the undersigned authority, on this day, personally appeared Terry LaGrone, who under oath, deposes and says, as follows:

1. My name is Terry LaGrone. I am the Authorized Signatory of LARKSPUR COMMUNITY DEVELOPER, INC., a Texas corporation. I am authorized to execute this Affidavit on behalf of such corporation (hereinafter referred to as the "Affiant").
2. Affiant is the Owner of the following described property (the "Property"), to-wit:

60.332-acre tract of land located in Williamson County, Texas out of the Henry Garmes Survey, Abstract No. 269 and the William H. Monroe Survey, Abstract No. 453, being a portion of that certain 230.70 acre tract and that certain 327.79 acre tract described in a deed of record to Larkspur Community Development, Inc., recorded in Document No. 2016088036, 2017023324, and 2018078678 of the Williamson County, Texas ("Property").
3. Affiant has requested Stuart Title Company to issue an owner's title policy with respect to the Property based on the most current Title Commitment issued by Stuart Title Company (the "Title Commitment").
4. In connection with the issuance of such policy, Affiant makes the following statements of fact:
 - a. That no parties are in possession of the Property other than Affiant.
 - b. That all labor and material used in any construction of improvements or repairs on the Property performed or requested by Affiant have been paid for and there are no unpaid labor or material liens or claims of liens against the Property or improvements with respect to any such construction or repairs;
 - c. No materials for contemplated construction, if any, have been delivered to the Property, and none are scheduled to be delivered to the Property prior to the Effective Date;
 - d. Affiant owes no past due Federal or State taxes and there are no delinquent Federal assessments presently against Affiant, and no Federal or State liens have been filed against Affiant, and there are no judgment liens against the Affiant;
 - e. There are no suits pending against Affiant in Federal or State court that would constitute a lien against the Property;
 - f. Except as set forth in the Title Commitment, there are no outstanding liens, recorded or unrecorded, against the Property; and
 - g. That Affiant has not heretofore sold, contracted to sell or conveyed any part of said property other than in connection with this sale.
5. Affiant recognizes that but for the making of the hereinabove statements of fact relative to the Property, Stuart Title Company would not issue an owner's title policy on said Property and that such statements have been made as a material inducement for the issuance of such policy.

WITNESS my hand this the 7th day of June, 2023, to be effective the 7th day of June, 2023.

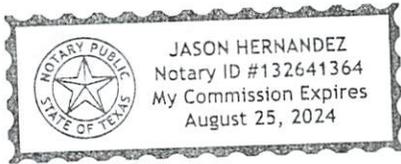
AFFIANT:

LARKSPUR COMMUNITY DEVELOPMENT,
INC.
a Texas Corporation

By: *Terry LaGrone*
Authorized Signatory

THE STATE OF TEXAS §
 §
COUNTY OF TRAVIS §

SWORN TO AND SUBSCRIBED BEFORE ME this 7th day of June, 2023, by Terry LaGrone, Authorized Signatory of LARKSPUR COMMUNITY DEVELOPMENT, INC. a Texas corporation, for and on behalf of said corporation.



Jason Hernandez
NOTARY PUBLIC STATE OF TEXAS

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CITY OF LIBERTY HILL
PO BOX 1920
LIBERTY HILL, TX 78642

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS 2023051114

DEED Fee: \$42.00
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Nancy E. Rister
Nancy E. Rister, County Clerk
Williamson County, Texas

