CALITERRA PHASE 2, SECTION 7, BLOCK F, LOT 9 REPLAT

CONTRIBUTING ZONE PLAN

Prepared For:

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Prepared By:

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Carlson, Brigance & Doering, Inc.

Civil Engineering \diamond Surveying #F3791

CBD No. 5138 September, 2023



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*Check Payable to TCEQ

I. Edwards Aquifer Application Cover Page (TCEQ-20705)

Texas Commission on Environmental Quality Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

1. <u>Edwards Aquifer applications</u> 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: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 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: Caliterra Ph. 2, Sec, 7, Block F, Lot 9 Replat						2. Regulated Entity No.:			
3. Customer Name: CF CSLK CALITERRA, LLC					4. Customer No.:				
5. Project Type: (Please circle/check one)	New	Modification			Extension		Exception		
6. Plan Type: (Please circle/check one)	WPAP CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures	
7. Land Use: (Please circle/check one)	Residential	Non-residential				8. S i 12.03 a	ite (acres): acres		
9. Application Fee:	\$4,000	10. Permanent l			BMP(s):		Engineered Filt	er Strips	
11. SCS (Linear Ft.):		12. AST/UST (No			o. Tanks):				
13. County:	Hays	14. W	aters	hed:			Onion Creek		

Application Distribution

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

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

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

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

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

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

Keith Gallagher

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

9/20/2023 Date

FOR TCEQ INTERNAL USE ONLY						
Date(s)Reviewed: Date Administratively Complete:						
Received From:		Correct Number of Copies:				
Received By:		Distribut	ion 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	Payable to TCEQ (Y	/N):		
Core Data Form Complete (Y/N):		Check: Signed (Y/N):				
Core Data Form Incomplete Nos.:		Less than 90 days old (Y/N):				

II. Contributing Zone Plan Application (TCEQ-10257)

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: Keith Gallagher

Date: <u>9/20/2023</u>

Signature of Customer/Agent:

Regulated Entity Name: Caliterra Ph. 2, Sec. 7, Block F, Lot 9 Replat

Project Information

- 1. County: <u>Hays</u>
- 2. Stream Basin: Onion Creek
- 3. Groundwater Conservation District (if applicable): Hays Trinity
- 4. Customer (Applicant):

Contact Person: Gregory L. RichEntity: CF CSLK CALITERRA, LLCMailing Address: 12222 Merit Drive, Suite 1020City, State: Dallas, TXZip: 75251Telephone: 972-960-2777Fax: _____Email Address: grich@siepiela.com

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5. Agent/Representative (If any):

Contact Person: Keith GallagherEntity: Carlson, Brigance, & Doering, IncMailing Address: 5501 West William Cannon DriveCity, State: Austin, TXTelephone: 512-280-5160Email Address: kgallagher@cbdeng.com

Zip: <u>78749</u> Fax: <u>512-583-0903</u>

6. Project Location:

The project site is located inside the city limits of <u>Dripping Springs</u>.

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

The project site is not located within any city's limits or ETJ.

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

Abou	ut 4	l,500	ft ۱	West	t of	the	inte	rsectio	ו n of	RM	12	and	Calit	terra	Pa	arkw	ay.
30° 1	10'	24.1'	' N	98°	6'0	.4" \	N										

- 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. \square 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:

\boxtimes	Area of the site
\boxtimes	Offsite areas
\boxtimes	Impervious cover
\boxtimes	Permanent BMP(s)
\boxtimes	Proposed site use
\boxtimes	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:

\boxtimes	Residential: # of Lots: <u>3</u>
	Residential: # of Living Unit Equivalents:
	Commercial
	Industrial
	Other:

13. Total project area (size of site): <u>12.03</u> Acres

Total disturbed area: <u>3.0</u> Acres

- 14. Estimated projected population: 10.5
- 15. The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

Impervious Cover of			
Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	19,000	÷ 43,560 =	0.44
Parking		÷ 43,560 =	
Other paved surfaces		÷ 43,560 =	
Total Impervious Cover	19,000	÷ 43,560 =	0.44

Total Impervious Cover 0.44 ÷ Total Acreage 12.03 X 100 = 3.66% Impervious Cover

16. Attachment D - Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. 🛛 Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

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

🗌 N/A

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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 x W = _____ $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$

21. Pavement Area:

Length of pavement area: _____ feet. Width of pavement area: _____ feet. L x W = _____ $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$ Pavement area _____ acres \div R.O.W. area _____ acres x 100 = ____% 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 <u>Dripping Springs</u> (name) Treatment Plant. The treatment facility is:

\boxtimes	Existing.
	Proposed.
	A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

 $\square N/A$

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1			
2			
3			
4			
5			
	·	Tot	al x 1 5 = Gallons

 $10tal \times 1.5 =$ 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

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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. Specification	ons showing equivalent
protection for the Edwards Aquifer are attached.	

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

Table 3 - Secondary Containment

Length (L)(Ft.)	Width(W)(Ft.)	Height (H)(Ft.)	L x W x H = (Ft3)	Gallons

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. \square The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = <u>100</u>'.

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): <u>FEMA FIRM# 48209C0115F Hays County, TX, dated Sept 2, 2005</u>.

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. \square 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. K 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. \square 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: _____.



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 smal	0
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. X 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.

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.
\boxtimes	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,

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or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

Administrative Information

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

ATTACHMENT A – Road Map



LOCATION MAP SCALE: 1'' = 2000'

ATTACHMENT B – USGS Quadrangle Map



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



DRIPPING SPRINGS 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 14R 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.

.....NAIP, September 2016 - November 2016 U.S. Census Bureau, 2015GNIS, 1979 - 2018National Hydrography Dataset, 2002 - 2018National Elevation Dataset, 2002 - 2003Multiple sources; see metadata file 2016 - 2017 Imagery.... Roads..... Names..... Hydrography..... Contours.... Boundaries.... Wetlands... ..FWS National Wetlands Inventory 1982 - 1983



NSN. 7 6 4 3 0 1 6 3 9 5 9 3 3 NGA REF NO. US GSX24 K 1 2 8 0 1

ATTACHMENT C – Project Description

1.0 GENERAL

The **Caliterra Phase 2, Section 7, Block F, Lot 9 Replat** project is a proposed addition off 3 single family lots, to existing Phase 2 Section 7. This site is located in City of Dripping Springs' ETJ and is in Hays County. The project is in the HCDD No.1 Municipal Utility District. The site is currently undeveloped.

2.0 ORDINANCE STATUS

The project lies over the Edwards Aquifer Contributing Zone in Hays County and is subject to the TCEQ Contributing Zone regulations.

The project is within Caliterra Subdivision and is subject to the Development Agreement between City of Dripping Springs and Development Solutions CAT, LLC, Owner of Caliterra Subdivision, recorded in Vol. 4978, Page 215, OPR of Hays County, Texas. The project is also subject to the Water Agreement between the developer and the Dripping Springs Water Supply Corporation.

3.0 ACCESS

Access to this project shall be from Peakside Circle.

4.0 DRAINAGE AND WATER QUALITY

This project is subject to the water quality provisions of the Texas Commission on Environmental Quality (TCEQ) for the Edward's Aquifer Contributing Zone (CZP) with enhanced measures under RG-348A. The run-off from this project will be treated by engineered filter strips. A majority of the storm runoff will travel overland to filter strips before leaving the site. Per the Development Agreement, the BMP's will remove the required overall load to more than 80% for the site. All drainage areas flow to and through the site are less than 64 acres. Drainage areas were mapped using lidar and survey data of existing topography.

Per the Development Agreement, TCEQ Optional Enhanced Measures apply to the project and all drainage is routed through a series of two BMP's minimum unless the runoff from the lots is naturally directed offsite.

5.0 WATER AND WASTEWATER

The tract is within the City of Dripping Springs Water Supply Corporation water service area. Caliterra Phase 3 Section 10 will utilize an existing 8" water stub built and plugged with Caliterra Parkway.

Wastewater service is within the City of Dripping Springs wastewater system installed with the subdivision. Waste water from the site will tie into the existing 15" interceptor located near Onion Creek.

6.0 SEDIMENTATION/EROSION CONTROL

Sedimentation/erosion controls are required and will be in accordance with TCEQ Contributing Zone requirements and City of Dripping Springs guidelines. The project proposes to use silt fence and stabilized construction entrances as temporary measures. Our revegetation plan will comply with City of Dripping Springs and Hays County standards.

7.0 CRITICAL ENVIRONMENTAL FEATURES

There are no known Critical Environmental Features (CEF's) located on the tract or within 150 feet of the tract, including caves, sinkholes or wetland features. This project is within the Edwards Aquifer Contributing Zone and drains to the Onion Creek Watershed. No portion of this lot is impacted by the 100-year floodplain from any waterway as defined by FEMA FIRM Panel # 48209C0115F, revised dated September 2, 2005 for Hays County, Texas.

ATTACHMENT D Factors Affecting Surface Water Quality

Factors contributing to the contamination of surface and groundwater are generated from man-made pollutants such as pet waste, pesticides, fertilizers, illegal trash dumping, and automotive fluids.

ATTACHMENT E

Volume and Character of Stormwater Runoff

This site in proposed condition will generate approximately 78 CFS during the 100-year storm event. The runoff leaving the site will be in compliance with the Texas Commission on Environmental Quality (TCEQ) Regulations. Runoff from the development will flow over vegetated filter strips before flowing offsite. The proposed vegetated filter strips have 85% removal rate by TCEQ standards. The quality of runoff will be at an acceptable level. The average curve number for the proposed development is 89 and the impervious cover in the future developed state is 3.66% and approximately 0.0% for the undeveloped state.

ATTACHMENT J BMPs for Upgradient Stormwater

There is no offsite drainage entering the proposed site as the site is located on a hilltop.

ATTACHMENT K

BMPs for On-site Stormwater

On-site stormwater will be conveyed through filter strips. The filter strips were designed using TCEQ technical guidance manual RG-348.

ATTACHMENT L BMPs for Surface Streams

The runoff from this site is treated by utilizing filter strips. These will prevent the pollutants from entering the adjacent stream until they are reduced to an acceptable level. There are no critical features located within the project site or affected by the project construction.

ATTACHMENT M Construction Plans

SUB-ENGINEERING.C

Sheet List Table					
Sheet Number	Sheet Title				
1	COVER SHEET				
2	GENERAL NOTES				
3	FINAL PLAT				
4	EROSION CONTROL PLAN				
5	EROSION CONTROL DETAILS				
6	BMP MAP				
7	WATER TAPPING PLAN				
8	WASTEWATER TAPPING PLAN				
9	WATER DETAILS (1 OF 2)				
10	WATER DETAILS (2 OF 2)				
11	WASTEWATER DETAILS				
12	GRADING PLAN				

J:AC3D(5138)dwg)5138-COVER SHEET & GENERAL NOTES.dwg - Oct 05, 2023 - 9:01am

		REVISE (R)	TOTAL #	NET CHANGE	TOTAL SITE	CITY OF DRIPPING	APPROVED	DATE
NO.	DESCRIPTION	ADD (A) VOID (V) SHEET NO's	SHEETS IN PLAN SET	IMP. COVER (SQ. FT.)	IMP. COVER (SQ. FT.)/ (%)	SPRINGS APPROVAL/DATE	ВҮ	IMAGED
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	i							-



- PROTECTION SYSTEM. 3. MINIMUM REQUIRED FIRE FLOW SHALL MEET OR EXCEED THE REQUIREMENTS OF APPENDIX B OF THE 2015 INTERNATIONAL FIRE CODE. MINIMUM FIRE FLOW SHALL NOT BE LESS THAN 1000 GALLONS PER MINUTE FOR THIS PROJECT.
- 4. THIS PROJECT IS LOCATED IN THE EDWARDS AQUIFER CONTRIBUTING ZONE. 5. WASTEWATER IS PROVIDED BY DRIPPING SPRINGS. WATER IS PROVIDED BY DRIPPING SPRINGS
- WATER SUPPLY CORP. 6. THE STORMWATER UTILITIES AND POND IN THIS SUBDIVISION WILL BE MAINTAINED BY THE HAYS COUNTY DEVELOPMENT DISTRICT #1.
- 7. THIS DEVELOPMENT IS SUBJECT TO THE DEVELOPMENT AND CONVEYANCE AGREEMENT DATED JULY 22nd, 2014 BETWEEN THE CITY OF DRIPPING SPRINGS AND DEVELOPMENT SOLUTIONS CAT, LLC RECORDED IN VOLUME 4978, PAGE 214, PUBLIC RECORDS OF HAYS COUNTY, TEXAS.
- 8. A STORMWATER CONTROL MEASURES MAINTENANCE PLAN HAS BEEN PREPARED FOR THIS DEVELOPMENT AND IS RECORDED AS DOCUMENT # <u>23020152</u>, IN THE PUBLIC RECORDS OF HAYS COUNTY, TEXAS.

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		DESIGNEI BY: NAME	D DI	RAFTED BY: NAME
JBMITTED BY:		DATE		
ARLSON, BRIGANCE AND DOERING, INC.	DATE			
PROVED BY:		REVISION		
HAD GILPIN, P.E. – CITY ENGINEER ITY OF DRIPPING SPRINGS	DATE	Doering, Inc.	Surveying 3791 Anorth Office	12129 RR 620 N., Ste. 600 Austin, Texas 78750 www.cbdeng.com
ICHELLE FISCHER – CITY ADMINISTRATOR ITY OF DRIPPING SPRINGS	DATE	rlson, Brigance &	Civil Engineering	1 West William Cannon Dr. Austin, Texas 78749 hone No. (512) 280-5160
AYS COUNTY TRANSPORTATION DEPARTMENT	DATE	$\sim \zeta_a$	CBD	55
AYS COUNTY DEVELOPMENT DISTRICT NO. 1	DATE		JOCK F	
ays county esd #6	DATE		, LOT 9, BI	7ATER, & 7EMENTS
OR DRIPPING SPRINGS WATER SUPPLY CORPORA	TION DATE	OVER SHEET	2 SECTION 7,	DRAINAGE, W ATER IMPROV
TTY OF DRIPPING SPRINGS WASTEWATER ENGINEE	ER DATE	Ŭ	RRA PHASE	STREET, WASTEW
CITY OF DRIPPING SPRINGS DEVELOPMENT PERMIT	Γ #	ME:	LITE	
R/DEVELOPER: CF CSLK CALITERRA, LLC ENGINEER: 12222 MERIT DRIVE, SUITE 1020 DALLAS, TX 75251	CARLSON, BRIGANCE & DOERING, INC. C/O MR. KEITH GALLAGHER, P.E. 5501 WEST WILLIAM CANNON DRIVE AUSTIN TEXAS 78749	SHEET NA	JOB NAME CAI	PROJECT:
BENCHMARK NOTES: BM#1 IS A CAPPED 1/2" IRON ROD, ON THE SOUTH SIDE CALITERRA PARKWAY, APPROXIMATELY 136' NORTH FROM TH EASTERNMOST CORNER OF LOT 16, BLOCK "K" OF CALITERF TWO, SECTION EIGHT, INSTRUMENT # 18010022. ELEVATION = 1,154.00'	PHONE: (512) 280–5160 FAX: (512) 280–5165 OF E RA PHASE	CARLSON, H	5 0F 7 E OF 7 148170 CENSE S ONAL BRIGANCE, & ID# F3791 10/5/2	GHER DOERIING, INC.
BM#2 IS A "X" ON TOP OF RIBBON CURB, ON THE NORTH CALITERRA PARKWAY, APPROXIMATELY 139' SOUTHEAST FROM SOUTHERNMOST CORNER OF LOT 35, BLOCK "E", AMENDED CALITERRA PHASE ONE, SECTION FOUR, VOL. 19, PG. 138. ELEVATION = 1066.07'	SIDE OF M THE PLAT OF	JOB NUT	tober MBER 5138	2023
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GENERAL CONSTRUCTION NOTES FDWARDS AQUIFER PROTECTION PROGRAM CONSTRUCTION NOTES - LEGAL DISCLAIMER

THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION. FURTHER ACTIONS MAY BE REQUIRED TO ACHIEVE COMPLIANCE WITH TCEQ REGULATIONS FOUND IN TITLE 30, TEXAS ADMINISTRATIVE CODE (TAC), CHAPTERS 213 AND 217, AS ELL AS LOCAL ORDINANCES AND REGULATIONS PROVIDING FOR THE PROTECTION OF WATER QUALITY. ADDITIONALLY, NOTHING CONTAINED IN THE FOLLOWING/LISTED "CONSTRUCTION NOTES" RESTRICTS THE POWERS OF THE ED, THE COMMISSION OR ANY THER GOVERNMENTAL ENTITY TO PREVENT, CORRECT, OR CURTAIL ACTIVITIES THAT RESULT OR MAY RESULT IN POLLUTION OF THE EDWARDS AQUIFER OR HYDROLOGICALLY CONNECTED SURFACE WATERS. THE HOLDER OF ANY EDWARDS AQUIFER PROTECTION PLAN CONTAINING "CONSTRUCTION NOTES" IS STILL RESPONSIBLE FOR COMPLIANCE WITH TITLE 30, TAC, CHAPTERS 213 OR ANY OTHER APPLICABLE TCEQ REGULATION, AS WELL AS ALL CONDITIONS OF AN EDWARDS AQUIFER PROTECTION PLAN THROUGH ALL PHASES OF PLAN IMPLEMENTATION. FAILURE TO COMPLY WITH ANY CONDITION OF THE ED'S APPROVAL, WHETHER OR NOT IN CONTRADICTION OF ANY "CONSTRUCTION NOTES," IS A VIOLATION OF TCEQ REGULATIONS AND ANY VIOLATION IS SUBJECT TO ADMINISTRATIVE RULES, ORDERS, AND PENALTIES AS PROVIDED UNDER TITLE 30, TAC § 213.10 (RELATING TO ENFORCEMENT). SUCH VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AND INJUNCTION. THE FOLLOWING/LISTED "CONSTRUCTION NOTES" IN NO WAY REPRESENT AN APPROVED EXCEPTION BY THE ED TO ANY PART OF TITLE 30 TAC, CHAPTERS 213 AND 217, OR ANY OTHER TCEQ APPLICABLE REGULATION

A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST NCLUDE:

-THE NAME OF THE APPROVED PROJECT; -THE ACTIVITY START DATE; AND -THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.

- ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ONSITE.
- NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
- PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, TH APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
- SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
- ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
- IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL TCEQ-0592A (REV. JULY 15, 2015) PAGE 2 OF 2 STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
- THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: -THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR: -THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF -THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- . THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:

A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPS) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERMS, SILT FENCES, AND DIVERSIONARY STRUCTURES;

B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS

ORIGINALLY APPROVED: C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER: OR

D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

AUSTIN REGIONAL OFFICE 12100 PARK 35 CIRCLE, BUILDING A AUSTIN, TEXAS 78753-1808 PHONE (512) 339-2929 FAX (512) 339-3795

SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD SAN ANTONIO, TEXAS PHONE (210) 490-3096

HAYS COUNTY ROAD DEPARTMENT GENERAL CONSTRUCTION NOTES:

- 1. SEVENTY-TWO (72) HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH ALL PERTINENT PARTIES.
- 2. ALL ROADWAY AND DRAINAGE IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH HAYS COUNTY SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS FROM HAYS COUNTY ROAD AND BRIDGE DEPARTMENT PRIOR TO BEGINNING ANY ON-SITE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE NECESSARY INSPECTIONS FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT. ALL REPAIRS TO IMPROVEMENTS CAUSED BY CONTRACTOR'S FAILURE TO INSTALL IMPROVEMENTS IN ACCORDANCE WITH HAYS COUNTY SPECIFICATIONS AND THESE CONSTRUCTION PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. HAYS COUNTY TRANSPORTATION DEPARTMENT'S ACCEPTANCE OF THE IMPROVEMENTS ARE CONTINGENT ON REPAIRS BEING MADE TO HAYS COUNTY'S SATISFACTION. DELAYS CAUSED BY REPAIRS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. A MINIMUM OF TWO (2) BENCHMARKS SHALL BE SHOWN ON THE CONSTRUCTION PLANS.
- 4. ALL BEDDING MATERIALS USED WITHIN THE ROW SHALL COMPLY WITH COA ITEM 510.
- 5. ALL CONCRETE PLACED WITHIN THE ROW SHALL BE A MINIMUM OF CLASS A. THE USE OF REBAR CHAIRS AND TESTS CYLINDERS WILL BE REQUIRED ON PCC VALLEY GUTTER PLACEMENTS.
- 6. THE PROPOSED FULLY DEVELOPED STORMWATER RUNOFF RATE CANNOT EXCEED EXISTING CONDITIONS RUNOFF RATE. 7. DEWATERING OPERATIONS MST USE SWPPP-SPECIFIED METHODS ONLY. IF SUCH METHODS ARE ONLY GENERAL OR NOT APPLICABLE, PUMP FROM THE TOP OF THE POOL (RATHER THAN THE BOTTOM) AND DISCHARGE TO A VEGETATED, UPLAND AREA (AWAY FROM WATERBODIES OR DRAINAGES) OR USE ANOTHER TYPE OF FILTRATION PRIOR TO DISCHARGE. REFER TO THE EPA 2017 GENERAL CONSTRUCTION PERMIT, SECTION 2.4, AS APPLICABLE.
- 8. THE CONTRACTOR SHALL SUPPLY QUALIFIED PERSONNEL TO PERFORM SWPPP INSPECTIONS ON PROJECT ≥ 1 ACRE. QUALIFIED PERSONNEL SHALL HAVE CISEC, CESSWI, OR EQUIVALENT CERTIFICATION APPROVED BE THE MS4.
- 9. CONTRACTOR SHALL ENSURE THAT MUD AND DEBRIS TRACKED ONTO PUBLICLY MAINTAINED ROADWAYS FROM VEHICLES LEAVING THE CONSTRUCTION SITE WILL BE CLEANED UP DAILY.
- 10. NO EXPLOSIVES SHALL BE USED FOR THIS PROJECT WITHOUT TCEQ APPROVAL.
- 11. ALL HOLES, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES IN COMPLIANCE WITH COA 509S AND OSHA REGULATIONS AT ALL TIMES.
- 12. THE CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN PREPARED AND SEALED BY AN ENGINEER LICENSED BY THE STATE OF TEXAS PRIOR TO THE START OF THE PROJECT. THE CONTRACTOR SHALL ASSIGN A COMPETENT PERSON THAT HAS BEEN PROPERLY TRAINED AND IS QUALIFIED TO MAKE INSPECTIONS AND SUPERVISE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE TRENCH SAFETY OR EXCAVATION SAFETY SYSTEM.
- 13. HAYS COUNTY IS NOT RESPONSIBLE FOR SIDEWALK MAINTENANCE. A FULLY EXECUTED LICENSE AGREEMENT MUST BE IN-PLACE PRIOR TO CONSTRUCTION OF SIDEWALKS WITHIN HAYS COUNTY ROW.
- 14. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION SEQUENCING WHICH MAY BE SPECIFIED SOMEWHERE IN THE CONSTRUCTION PLANS.
- 15. PERMIT IS REQUIRED FOR CONSTRUCTION IN "RIGHT OF WAY": ORDINANCE 7.10. NO DRIVEWAY, UTILITY CONSTRUCTION, MAILBOXES, LANDSCAPING OR ANY OTHER ENCROACHMENT INTO RIGHT-OF-WAY OR EASEMENT SHALL BE ALLOWED WITHOUT FIRST OBTAINING A PERMIT FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT.
- 16. PRIOR TO THE INSTALLATION OF ANY ROAD BUILDING MATERIAL THE SUBGRADE SHALL BE INSPECTED BY HAYS COUNTY. PRIOR TO PAVING, BASE MATERIAL SHALL BE INSPECTED BY HAYS COUNTY. THE OWNER OR HIS AGENT SHALL NOTIFIY HAYS COUNTY FORTY-EIGHT (48) HOURS PRIOR TO THE TIME WHEN THE INSPECTION IS NEEDED: ORDINANCE 1.05; 2.06.
- 17. ALL OUTFALLS CONSTRUCTED WITHIN HAYS COUNTY MUST BE SUBMITTED TO HAYS COUNTY WITH GPS COORDINATED AT THE END OF EACH PROJECT. COORDINATED WILL BE SUBMITTED ON THE NAD 1983 STATED PLANE SOUTH CENTRAL FIPS 4204 FEET COORDINATE SYSTEM. ALL COORDINATED WILL BE SUBMITTED IN GRID UNITS. THE REQUIRED FILE TYPE FOR COORDINATE DATA SUBMISSIONS IS *TXT FORMAT.
- 18. AT THE TIME A FINAL INSPECTION AND RELEASE OF PERFORMANCE SECURITY IS REQUESTED; THE DESIGN ENGINEER SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" RECORD DRAWINGS IN PDF FORMAT (300DPI) ON A VIRUS FREE DISK

RELEASED WITHOUT THESE EXHIBITS.

HAYS COUNTY GENERAL NOTES:

- 1. FOR SLOPES OR TRENCHES GREATER THAN 5 FEET IN DEPTH, ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH OHSA STANDARDS.
- 3. HMAC CORE PATCHES SHALL CONSIST OF AN APPROVED POLYMER COLD MIX
- COUNTY SPECIFICATIONS, GEOTECH REPORT, OR WHICHEVER IS MORE STRINGENT.

GENERAL NOTES THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS. 1. These construction plans were prepared, sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore based on the engineer's concurrence of compliance, the construction plans for construction of the proposed project are hereby approved subject to the

- Federal Requirements and Codes
- time of submittal of the project to the City.
- The site construction plans shall meet all requirements of the approved site plan. Wastewater mains and service lines shall be SDR 26 PVC.
- Wastewater mains shall be installed without horizontal or vertical bends. Maximum distance between wastewater manholes is 500 feet.
- according to City of Dripping Springs and TCEQ requirements.
- Dripping Springs and TCEQ requirements.
- Dripping Springs Engineer on DVD format prior to paving the streets.
- sprinkler system, and 200 psi C900 PVC for all others. 12. Public water system fire lines shall be ductile iron pipe and tested by the contractor at 150 psi for 2 hours.
- 14. Long fire hydrant leads shall be restrained.
- specifications.
- Hays County Development District #1. The Bond will be provided as follows:
- related improvements
- related improvements
- with the disk. # will have to be identified on the As-Built Record drawings.

DISINFECTION OF POTABLE WATER LINES A. Preventing Contamination

- pipe laying is stopped at the close of the day's work.
- B. Cleaning
- C. Procedure and Dosage Engineer.

One connection to the existing system will be allowed with a valve arranged to prevent the strong disinfecting dosage from flowing back into the existing water supply piping. The valve shall be kept closed and locked in a valve box with the lid painted red. No other connection shall be made until the disinfection of the new line is complete and the water samples have met the established criteria. The valve shall remain closed at all times except when filling or flushing the line and must be staffed during these operations. Backflow prevention in the form of a reduced pressure backflow assembly must be provided if the valve is left unattended. The new pipeline shall be filled completely with disinfecting solution by feeding the concentrated chlorine and approved water from the existing system uniformly into the new piping in such proportions that every part of the line has a minimum concentration of 50 mg/liter available chlorine.

The disinfecting solution shall be retained in the piping for at least 24 hours and all valves, hydrants, services, stubs, etc. shall be operated so as to disinfect all their parts. After this retention period, the water shall contain no less than 25 mg/liter chlorine throughout the treated section of the pipeline.

For pipelines larger than 16" in diameter, the Contractor may use the AWWA C-651 "Slug Method" for disinfecting the pipeline. Chlorine shall be fed at a constant rate and at a sufficient concentration at one end of the pipeline to develop a slug of chlorinated water having not less than 100 mg/liter of free chlorine. The Contractor shall move the slug through the main so that all interior surfaces are exposed to the slug for at least three (3) hours. The chlorine concentration in the slug shall be measured as it moves through the pipeline. If the chlorine concentration drops below 50 mg/liter, the Contractor shall stop the slug and feed additional chlorine to the head of the slug to restore the chlorine concentration to at least 100 mg/liter before proceeding. As the slug flows past fittings and valves, related valves and hydrants shall be operated so as to disinfect appurtenances and pipe branches. Unless otherwise indicated, all quantities specified herein refer to measurements required

- by the testing procedures included in the current edition of "Standard Methods". The chlorine residual determinations.
- D. Final Flushing

78233-4480 FAX (210) 545-4329 AND SHALL CERTIFY THAT ALL ROAD AND DRAINAGE CONSTRUCTION HAS BEEN COMPLETED IN SUBSTANTIAL ACCORDANCE WITH PREVIOUSLY APPROVED PLANS AND SPECIFICATIONS, EXCEPT AS NOTED. NO PERFORMANCE SECURITY WILL BE

2. ALL BEDDING MATERIAL USED WITHIN THE ROW MUST COMPLY WITH COA 510 4. SUBGRADE AND BASE MOISTURE DENSITY REQUIREMENTS SHALL COMPLY WITH HAYS

standard Construction Specifications and Details Manual and all other applicable City, State, and

2. This project is subject to Hays County Development District No. 1, Dripping Springs Water Supply Corporation, and City of Dripping Springs Standard Specifications and Details in effect at the

Wastewater mains shall be low pressure air tested and mandrel tested by the contractor 8. Wastewater manholes shall be vacuum tested and coated by the contractor according to City of

9. Wastewater mains shall be camera tested by the contractor and submitted to the City of 10. Private water system fire lines shall be tested by the contractor to 200 psi for 2 hours. 11. Private water system fire lines shall be ductile iron piping from the water main to the building

13. All bends and changes in directions on water mains shall be restrained and thrust blocked. 15. All water lines are to be bacteria tested by the contractor according to the City standards and

16. Water and Sewer main crossings shall meet all requirements of the TCEQ, the City, and DSWSC. 17. Flexible base material for public streets shall be TXDOT Type A Grade 1. 18. All sidewalk ramps are to be installed with the public infrastructure and are maintained by the

19. A maintenance bond is required to be submitted prior to acceptance of the public improvements. • Hays County Development District No. 1 for District improvements - 2 years, 100% of

• City of Dripping Springs for City improvements - 2 years, 10% of related improvements • Dripping Springs Water Supply Corporation for DSWSC improvements - 2 years, 25% of

• Hays County for County improvements - 2 years, 10% of related improvements 20. Record drawings of the public improvements shall be submitted to the City, the District, and DSWSC by the design engineer prior to acceptance of the project. These drawings shall be on mylar or on TIFF or PDF disk (300 dpi). If a disk is submitted, a bond set shall be included

21. A stormwater control measures maintenance plan has been prepared for this deelopment and is recorded as document #_____, in the public records of Hays County, Texas. The document

The Contractor shall protect all piping materials from contamination during storage, handling and installation. Prior to disinfection, the pipeline interior shall be clean, dry and unobstructed. All openings in the pipeline shall be closed with watertight plugs when

Prior to disinfection the Contractor shall clean the pipeline to remove foreign matter. For pipelines 16" in diameter or smaller, cleaning shall consist of flushing the pipeline. For pipelines greater than 16" in diameter, cleaning shall be performed by operating hydrants and blow-offs located at low points in the pipeline, or by mechanical means (sweeping or pigging). Water for the Work shall be metered and furnished by the Contractor in accordance with Section 01500 of the Standard Contract Documents.

The Contractor, at its expense, will supply the test gauges and the Sodium Hypochlorite conforming to ANSI/AWWA B300, which contains approximately 5 percent to fifteen percent available chlorine, and will submit for approval a written plan for the disinfection process. Calcium Hypochlorite conforming to ANSI/AWWA B300, which contains approximately 65 percent available chlorine by weight, may be used in granular form or in 5 g tablets for 16" diameter or smaller lines, if it is included as part of the written plan of disinfection that is approved by the MUD and the Engineer. The Contractor, at its expense, shall provide all other equipment, supplies and the necessary labor to perform the disinfection under the general supervision of the MUD and the

chlorine concentration at each step in the disinfection procedure shall be verified by

The heavily chlorinated water shall then be carefully flushed from the potable water line until the chlorine concentration is no higher than the residual generally prevailing in the existing distribution system. Proper planning and appropriate preparations in handling, diluting, if necessary, and disposing of this strong chlorine solution is necessary to insure that there is no injury or damage to the public, the water system or the

environment. The plans and preparations of the Contractor must be approved by the City before flushing of the line may begin. Additionally the flushing must be witnessed by an authorized representative of the MUD or the Engineer.

Approval for discharge of the diluted chlorine water or heavily chlorinated water into the wastewater system must be obtained from the Austin Water Utility. The line flushing operations shall be regulated by the Contractor so as not to overload the wastewater system or cause damage to the odor feed systems at the lift stations. The MUD or the Engineer shall designate its own representative to oversee the work.

Daily notice of line discharging must be reported to the Austin Water Utility Dispatch

E. Bacteriological Testing

After final flushing of the strong disinfecting solution, two (2) sets of water samples from the line, that are taken at least twenty-four (24) hours apart, will be tested for bacteriological quality by the City and must be found free of coliform organisms before the pipeline may be placed in service. Each set shall consist of one (1) sample that is drawn from the end of the main and additional samples that are collected at intervals of not more than 1000 feet along the pipeline. All stubs shall be tested before connections are made to existing systems.

The Contractor, at its expense, shall install sufficient sampling taps at proper locations along the pipeline. Each sampling tap shall consist of a standard corporation cock installed in the line and extended with a copper tubing gooseneck assembly. After samples have been collected, the gooseneck assembly may be removed and retained for future use.

Samples for bacteriological analysis will only be collected from suitable sampling taps in sterile bottles treated with sodium thiosulfate. Samples shall not be drawn from hoses or unregulated sources. The City, at its expense, will furnish the sterile sample bottles and may, at its discretion, collect the test samples with City personnel.

If the initial disinfection fails to produce acceptable sample test results, the disinfection procedure shall be repeated at the Contractor's expense. Before the piping may be placed in service, two (2) consecutive sets of acceptable test results must be obtained.

An acceptable test sample is one in which: (1) the chlorine level is similar to the level of the existing distribution system; (2) there is no free chlorine and (3) total coliform organisms are absent. An invalid sample is one, which has excessive free chlorine, silt or non-coliform growth as defined in the current issue of the "Standards Methods." If unacceptable sample results are obtained for any pipe, the Contractor may, with the concurrence of the Inspector, for one time only flush the lines and then collect a second series of test samples for testing by the City. After this flushing sequence is completed, any pipe with one or more failed samples must be disinfected again in accordance with the approved disinfection procedure followed by appropriate sampling and testing of the water.

CITY OF DRIPPING SPRINGS STANDARD WASTEWATER UTILITY CONSTRUCTION NOTES <u>MARCH 2020</u>

- 1. All wastewater lines shall be constructed in accordance with City of Austin and TCEQ 30 TAC, Chapter 217 requirements.
- 2. Contractor shall guarantee the Work against defective workmanship and materials for a period of two (2) years from the date of final acceptance of the Work by the City of Dripping 3. Bedding for gravity wastewater lines, force mains, and treated effluent lines shall be 3/4" to 1"
- rock with a 6 ounce nonwoven geotextile fabric, meeting either TxDOT DMS 6200 or Type 1 COA 620S, placed over the bedding. Contractor shall provide a minimum 5 gallon bucket sample of the proposed bedding material for City of Dripping Springs approval.
- 4. When groundwater is encountered during construction, recommendations on bedding and backfill shall be provided by a Geotechnical Engineer before proceeding with construction. All recommendations shall be approved by the City of Dripping Springs. 5. Contractor shall adhere to City of Austin standard 1100S-1 for wastewater manhole ring
- adjustments in paved areas. 6. Gravity Wastewater lines shall be PVC SDR 26 ASTM D3034 if located greater than 9 feet
- from a waterline. If less than 9 feet (outside of pipe to outside of pipe) from any water line, pipe shall be PVC SDR 26 ASTM D2241 pressure rated pipe. 7. Force Mains shall be minimum PVC SDR 26 ASTM D2241 pressure rated pipe in brown poly
- 8. Treated effluent lines shall be minimum PVC SDR 21 ASTM D2241 purple pressure rated pipe. 9. All wastewater manholes are to be coated with cementitious lining (Sewpercoat® or approved equal) per City of Austin requirements. Existing manholes where connections are made to the City Sewer System shall be coated or recoated after connections are made or after
- manhole adjustments are made. 10. Engineer and Contractor shall coordinate with the Dripping Springs WSC regarding water line and water service line crossings.
- 11. Contractor shall install bolted manhole lids on all manholes outside pavement.
- 12. Wastewater manhole lids shall have "Sanitary Sewer" cast in the lid. 13. City of Dripping Springs' inspector shall observe installation of all taps onto wastewater lines.
- 14. City of Dripping Springs' inspector shall be notified 48 hours prior to all utility line testing by calling the City 512-858-4725 or the designated inspector identified at the preconstruction
- 15. Contractor shall perform the following testing on all types of wastewater improvements at his expense:
- a.Gravity wastewater lines and services low pressure air test. b.Gravity wastewater lines - mandrel deflection testing after 30 days of final backfill. c.Gravity wastewater lines - televised upon completion of construction and prior to paving Contractor shall provide the videos of the pipes to the City of Dripping Springs prior to
- acceptance. d.Wastewater manholes — vacuum test @ 10 inches of mercury for 3 minutes. The manhole shall have passed the test if the vacuum does not drop below 9 inches of mercury (-4.5)psig) within 3 minutes of the time the valve was closed. No vacuum testing will be accepted by the City of Dripping Springs until completion of minimum first course of base is installed.
- e.Force mains and treated effluent lines hydrostatically test to a minimum of 1.5 times working pressure for 24 hours.
- f. Existing wastewater facilities pretest and posttest existing lines and manholes when
- connecting to existing facilities. 16. Newly planted trees shall be located at least 10 feet from public wastewater service lines to be maintained by the City.

DRIPPING SPRINGS WSC WATERLINE CONSTRUCTION GUIDELINES

10/18/18

- 1. WATERLINES SHALL BE DESIGNED TO BE INSTALLED BETWEEN 36 INCHES MINIMUM BURY DEPTH AND 60 INCHES MAXIMUM, ANY WATERLINE DESIGNED TO BE BURIED DEEPER THAN 5 FEET MUST HAVE APPROVAL FROM DRIPPING SPRINGS WSC STAFF AND ITS ENGINEERS.
- 2.ALL WATERLINES SHOULD CROSS ABOVE STORM SEWER, ANY WATERLINE DESIGNED TO CROSS UNDER STORM SEWER MUST HAVE APPROVAL FROM DRIPPING SPRINGS WSC STAFF AND ITS ENGINEERS. 3.ALL GAS, ELECTRIC, TELECOMMUNICATION AND WASTEWATER LINES MUST CROSS BELOW WATER LINES, ANY
- LINE THAT CANNOT CROSS UNDER WILL REQUIRE APPROVAL FROM DRIPPING SPRINGS WSC STAFF AND FNGINFFRS 4. WATERLINES SHALL BE CONSTRUCTED SO THE DRIPPING SPRINGS WSC CAN PERFORM MAINTENANCE ON
- THEM WHEN NECESSARY THIS INCLUDES. A.NO WALLS CONSTRUCTED OVER OR WITHIN SIX FEET OF A WATERLINE WITHOUT PRIOR APPROVAL FROM
- THE DRIPPING SPRINGS WSC STAFF OR ITS ENGINEERS. B.NO SIGNS CONSTRUCTED OVER OR WITHIN SIX FEET OF A WATERLINE WITHOUT PRIOR APPROVAL FROM
- DRIPPING SPRINGS WSC STAFF OR ITS ENGINEERS. C.NOTHING CAN BE BUILT OR PLACED WITHIN THE DRIPPING SPRINGS WSC EASEMENTS THAT CANNOT BE
- EASILY MOVED BY WSC STAFF TO PERFORM MAINTENANCE D.ALL WATERLINES MUST BE CONSTRUCTED OUT OF THE FLOW LINE OF OTHER UTILITY TRENCHES, UNLESS CROSSING AT LEAST A 45 DEGREES ANGLE.
- E.NO WATERLINE WILL BE CONSTRUCTED IN THE FLOWLINE OF A DRAINAGE DITCH. 5. ALL WATER DISTRIBUTION LINES SHALL BE C-900 DR-18 OR DR 14 PVC PIPE MANUFACTURED IN THE UNITED STATES
- 6.ALL WATER SYSTEM MATERIALS SHALL FULLY COMPLY WITH TCEQ AND AWWA STANDARDS. ALL CONSTRUCTION SHALL FULLY COMPLY WITH THE DRIPPING SPRINGS WSC CURRENT CONSTRUCTION
- STANDARDS.
- 7.ALL SERVICE LINES SHALL BE SDR-9 P.E. PIPE 250 PSI. 8.ALL FITTINGS SHALL BE DUCTILE IRON MANUFACTURED IN THE UNITED STATES OF AMERICA WITH MECHANICAL JOINTS (MJ) AND HAVE EBBA IRON, INC. RESTRAINT AT EACH MJ. EACH C900 PVC PIPE SHALL HAVE EBBA IRON, INC. SERIES 1500 BELL RESTRAINT HARNESS WHEN LOCATED WITHIN THE DIMENSIONS SPECIFIED ON PLANS FROM D.I. FITTINGS, GATE VALVES, FIRE HYDRANTS, AND DEAD END LINES, AND WRAPPED IN 8 MIL POLYETHYLENE FILM.
- 9.ALL FIRE HYDRANT LEADS TO BE CONSTRUCTED WITH DUCTILE IRON PIPE MANUFACTURED IN THE UNITED STATES OF AMERICA AND WRAPPED IN 8 MIL POLYETHYLENE FILM.
- 10. GATE VALVES SHALL CONFORM TO AWWA STANDARD C515 AND SHALL BE AMERICAN FLOW CONTROL, KENNEDY VALVE, EAST JORDAN IRON WORKS OR MUELLER COMPANY. 11. VALVE BOXES SHALL BE CAST IRON WITH ADJUSTABLE BARREL HEIGHT SET PLUMB WITH 24" X 24" X 5"
- CONCRETE PAD, VALVE BOXES IN ROAD OR SIDEWALK SHALL BE CONSTRUCTED WITH A TRAFFIC BEARING BOOT SIX INCH DUCTILE IRON PIPE AND PAVING RING.
- 12. BRASS FITTING SHALL BE FORD BRASS UNLESS OTHERWISE APPROVED BY THE DRIPPING SPRINGS WSC STAFF AND ENGINEER.

13.IF CONFLICT BETWEEN PROJECT SPECIFICATIONS AND WATER DISTRIBUTION SYSTEM CONSTRUCTION STANDARDS OF THE DRIPPING SPRINGS WSC, THE WSC CONSTRUCTION STANDARDS SHALL GOVERN, INCLUDING OMITTED ITEMS FROM THE PROJECT SPECIFICATIONS

14. CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING PRIOR TO BEGINNING WORK, THE DRIPPING SPRINGS WSC SHALL BE NOTIFIED A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE OF MEETING. 15. CONTRACTOR SHALL PROVIDE SUBMITTAL INFORMATION TO THE DRIPPING SPRINGS WSC ON ALL MATERIALS PROPOSED TO BE INSTALLED FOR REVIEW AND TO DETERMINE CONFORMANCE WITH THE DRIPPING SPRINGS WSC CONSTRUCTION STANDARDS.

16. PIPE EMBEDMENT SHALL BE # 5 TOPPING ROCK FROM EITHER CHANAS AGGREGATE BLANCO LLC (WASHED CRUSHED ROCK) OR WEST HENLEY QUARRY AGGREGATE WITH SAMPLE PROVIDED TO AND APPROVED BY THE DRIPPING SPRINGS WSC STAFF. THERE SHALL BE A MINIMUM OF 12 INCHES EMBEDMENT MATERIAL OVER THE PIPE AND 6 INCHES EMBEDMENT MATERIAL UNDER THE PIPE.

17. FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD C502 AND SHALL BE AMERICAN DARLING 5 $1\!\!\!/ 4$ "B-84-B, KENNEDY VALVE GUARDIAN K81-D, EAST JORDAN IRON WORKS MASTER 5CD250 OR MUELLER SUPER CENTURION 250 WITH HOSE OPENINGS AND 5" STORZ QUICK CONNECT PUMPER NOZZLE WITH A CAST PENTAGON OPERATING NUT. THE 2 ½" DISCHARGE OUTLETS MUST BE NATIONAL HOSE THREAD. A BLUE, DOUBLE SIDED; REFLECTIVE MARKER MUST BE AFFIXED TO THE ROADWAY DIRECTLY IN LINE WITH THE FIRE HYDRANT. HYDRANTS SHALL HAVE A RED OR SILVER PAINT COATING. HYDRANTS SHALL BE PLACED SO THEY ARE READILY ACCESSIBLE WITH NO OBSTRUCTIONS WITHIN 4 FEET OF HYDRANT. DO NOT PLACE HYDRANT WITHIN OR ADJACENT TO A DRAINAGE STRUCTURE.

18. EACH SERVICE SADDLE SHALL BE SMITH BLAIR EPOXY COATED WITH DUAL STAINLESS STEEL BANDS COMPLETELY WRAPPED WITH 8 MIL POLYETHYLENE FILM.

19. TOP OF THE METER BOX SHALL BE 2 INCHES ABOVE FINISHED GRADE 20.PIPES CROSSING UNDER STREET OR DRIVEWAY PAVEMENT SHALL BE BACKFILLED USING CRUSHED LIMESTONE BASE 6 INCH MAXIMUM LIFTS TO 95% STANDARD PROCTOR ABOVE THE PIPE EMBEDMENT MATERIAL, FLOWABLE FILL OR SUCH OTHER BACKFILL AS MAY BE REQUIRED BY THE CITY OF DRIPPING SPRINGS AND OR HAYS COUNTY. 21.METER BOXES MUST BE PLASTIC. ALL TRAFFIC BEARING BOXES MUST BE MADE OF POLY

22.STATE HIGHWAY BORE SHALL BE IN COMPLIANCE WITH TXDOT PERMIT REQUIREMENTS 23.ALL NEW WATERLINE CONSTRUCTION MUST BE DISINFECTED, PASS A PRESSURE TEST AND PASS BACTERIOLOGICAL SAMPLES.

24.ANY UNDERGROUND ELECTRIC CONDUIT/CONDUCTORS OR GAS LINE CROSSING THE DRIPPING SPRINGS WSC LINE SHALL BE LOCATED A MINIMUM OF 12 INCHES UNDER THE WATERLINE AT NEAR 90 DEGREES AND BE ENCASED WITH A MINIMUM 4 INCH THICK CONCRETE FOR A LENGTH NOT LESS THAN 24 INCHES ON EACH SIDE OF THE O.D. OF THE WATERLINE.

25. ALL FIRE LINES WILL HAVE THE APPROPRIATE BACKFLOW PREVENTER INSTALLED AND BE PLACED INSIDE OF A PRECAST VAULT AT OR NEAR THE PROPERTY LINE UNLESS THERE IS A DEDICATED EASEMENT PROVIDED DRIPPING SPRINGS WSC, THE DRIPPING SPRINGS WSCS MAINTENANCE ENDS AT THE FIRST FLANGE ON THE FIRST GATE VALVE GOING INTO THE BACKFLOW PREVENTER.

26.METERS 3 INCH AND LARGER WILL BE PLACED IN A PRECAST VAULT AT OR NEAR THE PROPERTY LINE UNLESS A DEDICATED EASEMENT IS PROVIDED TO THE DRIPPING SPRINGS WSC. 27. THE DRIPPING SPRINGS WSC MAINTENANCE OR REPAIR RESPONSIBILITY SHALL END AT EACH SERVICE METER

WITHIN THE METER BOX. 28.ALL SERVICE CONNECTIONS THAT EXCEED 65 PSI, THE DRIPPING SPRINGS WSC RECOMMENDS A PRESSURE

REDUCING VALVE BE INSTALLED AND MAINTAINED BY THE CUSTOMER. 29. PARALLELING WATERLINES MUST BE REVIEWED BY THE DRIPPING SPRINGS WSC STAFF AND ENGINEER PRIOR TO APPROVAL.

30.PRESSURE REDUCING VALVES BUILT IN THE DISTRIBUTION SYSTEMS MUST BE CONSTRUCTED WITH A BYPASS LINE FOR MAINTENANCE. 31.METERS 1 ½ INCH AND LARGER MUST BE BUILT WITH A BYPASS LINE SO THE METER CAN BE MAINTAINED

WITHOUT THE INTERRUPTION OF SERVICE. 32. VALVES SHALL BE INSTALLED SO TO LIMIT THE NUMBER OF CUSTOMERS WITH INTERRUPTED SERVICE DURING AN OUTAGE, VALVES SHALL BE PLACED AT ALL RUNS OF TEES UNLESS OTHERWISE APPROVED BY THE DRIPPING

SPRINGS WSC STAFF AND ENGINEER. 33. ALL CAPPED OR PLUGGED LINES MUST BUSHING DOWN TO A 2" WITH A BLOW OFF VALVE TO RELIEVE PRESSURE.

34. ALL EASEMENTS DEDICATED TO THE DRIPPING SPRINGS WSC MUST BE AT LEAST 15 FEET WIDE UNLESS OTHERWISE APPROVED BY THE DRIPPING SPRINGS WSC STAFF AND ITS ENGINEER. 35.NEW SUBDIVISIONS WILL BE REQUIRED TO CONSTRUCT AT LEAST ONE ADDITIONAL SERVICE CONNECTION FOR THE CORPORATION TO INSTALL A DEDICATED SAMPLE SITE, ADDITIONAL SERVICE CONNECTION MUST BE NOTED ON PLANS AND LOCATION APPROVED BY THE DRIPPING SPRINGS WSC STAFF AND ITS ENGINEER. 36. WATER AND WASTEWATER LINE SEPARATION DISTANCES SHALL MEET THE REQUIREMENTS OF 30 TAC, CHAPTER

290. 44 (E)(4). 37. WHEN GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION RECOMMENDATIONS ON BEDDING AND BACKFILL SHALL BE PROVIDED BY A GEOTECHNICAL ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ALL RECOMMENDATIONS SHALL BE APPROVED BY THE DRIPPING SPRINGS WSC STAFF AND ENGINEER.

SEQUENCE OF CONSTRUCTION

- 1. HOLD PRE-CONSTRUCTION MEETING.
- 2. NO CLEARING OR ROUGH GRADING MAY BE DONE UNTIL THE APPROVED EROSION AND SEDIMENTATION CONTROLS ARE IN PLACE.
- 3. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND STABILIZATION CONSTRUCTION ENTRANCE, IF REQUIRED, IN THE APPROVED PLANS.

4. ROUGH GRADE PONDS TO 100% CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO CLEARING, EXCAVATION AND EMBANKMENT ACTIVITIES. THE PONDS AND OUTLETS SHALL BE MAINTAINED AND FUNCTIONAL AS TEMPORARY DETENTION AND SEDIMENTATION BASINS THROUGHOUT CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT PONDS IS COMPLETE.

- 5. ROUGH GRADE STREETS.
- 6. INSTALL ALL UTILITIES IN RIGHTS-OF-WAY.
- 7. RE-GRADE AND COMPACT SUBGRADE. MEET WITH CITY INSPECTOR AND/DESIGN ENGINEER TO DETERMINE AREAS OF DIFFERING STREET SECTION THICKNESS OR SUBGRADE PREPARATION IF CALLED FOR IN THE GEOTECHNICAL REPORT.

8. INSURE ALL UNDERGROUND UTILITY CROSSINGS ARE IN PLACE INCLUDING SLEEVES FOR DRY UTILITIES AND INSTALL FIRST COURSE OF

- 9. INSTALL CURBS, RIP-RAP AND MISCELLANEOUS CONCRETE.
- 10. INSTALL SECOND COURSE OF BASE.

11. PRIOR TO PAVING, ALL UTILITY TESTING MUST BE COMPLETE AND APPROVED BY THE UTILITY OWNER

- 12. LAY ASPHALT.
- 13. FINAL GRADE ANY DITCHES AND PARKWAYS.
- 14. REVEGETATE ALL DISTURBED AREAS. DISPOSE OF SPOIL IN AN APPROVED MANNER.
- 15. SCHEDULE A FINAL INSPECTION WITH CITY.

16. AFTER ACCEPTANCE OF CONSTRUCTION, TEMPORARY EROSION CONTROLS MAY BE REMOVED. XXX-XXXX-XXXX

DESIGNEL BY: NAME	DESIGNED BY: NAME		DRAFTED BY: NAME		
DATE					
REVISION					
 Carlson, Brigance & Doering, Inc. 	Civil Engineering 🔶 Surveying	FIRM ID #F3791	5501 West William Cannon Dr. 12129 RR 620 N., Ste. 600	Austin, Texas 78749 Austin, Texas 78750	Phone No. (512) 280-5100 www.cbdeng.com
SHEET NAME: GENERAL NOTES	JOB NAME:	CALITERRA PHASE 2 SECTION 7, LOT 9, BLOCK F		TRUPPLIE SIKELI, UKAINAGE, WALEN, α	WASTEWATER IMPROVEMENTS
CARLSON,	ATE ATE ATE ATE ATE A ATE A A A A A A A	0F GALL/ 48170 YENS NAL NCE, & # F379	AGHE DOEL	ER RING,	INC.
DATE Oc JOB NU	tol MB	Der ER	20)23	3
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2 OF 13



VEN		CA	REPLAT OF LOT LITERRA PHASE TW
Curve Table Curve # Length Radius Chord Direction Chord Length Tangent DELTA C1 145.63 540.00 S67'48'47"W 145.19 73.26 15'27'07" C2 173.98 460.00 S70'55'19"W 172.94 88.04 21'40'11" C3 35.86 30.00 N63'59'53"W 33.76 20.42 68'28'51" C4 107.68 120.00 N55'27'28"W 104.10 57.77 51'24'42" C5 20.21 20.00 N52'13'14"W 19.36 11.06 57'53'38" C6 195.05 330.00 N40'12'41"W 192.22 100.47 33'51'55"		STATE OF TEXAS } COUNTY OF HAYS } KNOW ALL MEN BY THESE PRESENTS: THAT CF CSLK CALITERRA LLC., ACTING BY AND THROUGH ITS M/ PHASE TWO, SECTION SEVEN, RECORDED IN INSTRUMENT NUMBER SITUATED IN THE PHILIP A. SMITH SURVEY NUMBER 22, ABSTRAC OF LAND IN ACCORDANCE WITH THIS PLAT, TO BE KNOWN AS: "REPLAT OF LOT 9, BLOCK F, CALIT	ANAGER, GREGORY L. RICH, BEING THE OWNER OF LOT 9, BLOCK F, CALITERRA R 17019691, OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS, AND BEING CT NUMBER 415, HAYS COUNTY, TEXAS, DO HEREBY SUBDIVIDE 12.032 ACRES TERRA PHASE TWO, SECTION SEVEN"
C728.5520.00N16°15'02"W26.1917.3281°48'05"C8230.73280.00N01°02'08"E224.26122.3747°12'52"C9305.09470.00N03°58'33"W299.77158.1437°11'34"C1019.75280.00S20°33'04"E19.749.884°02'28"C11103.97280.00S07°53'34"E103.3752.5921°16'31"C12101.43280.00S13°07'20"W100.8751.2820°45'18"C135.59280.00S24°04'17"W5.592.791'08'35"		SUBJECT TO ANY EASEMENTS AND/OR RESTRICTIONS HERETO GR THE STREETS AND EASEMENTS SHOWN HEREON. WITNESS MY HAND, THIS THE DAY OF BY: GREGORY L. RICH, MANAGER AND ATTORNEY-IN-FACT CF CSLK CALITERRA, LLC C/O SR CAPITAL MANAGEMENTCALITERRA 12222 MERIT DRIVE, SUITE 1020 DALLAS, TX 75251	ANTED AND NOT RELEASED, AND DO HEREBY DEDICATED TO THE PUBLIC USE OF
ER: Line Table CSLK CALITERRA LLC. Line # Length Direction 22 MERIT DRIVE, SUITE 1020 L1 130.29 \$70'43'22"E AS, TEXAS 75251 L2 81.69 N75'49'40"E E: JUNE 16, 2023 L3 113.93 N19'16'38"E A PANEL NO. 48209C0115F L4 11.41 N24'38'34"E		STATE OF TEXAS } COUNTY OF DALLAS } BEFORE ME, THE UNDERSIGNED AUTHORITY ON THIS DAY PERSO NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND HE CONSIDERATION THEREIN EXPRESSED AND IN THE CAPACITY THEI	NALLY APPEARED GREGORY L. RICH, KNOWN TO ME TO BE THE PERSON WHOSE ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSE AND REIN STATED.
INEER & SURVEYOR: LSON, BRIGANCE & DOERING, INC. 1 WEST WILLIAM CANNON DRIVE TIN, TX 78749 NE: 512-280-5160 ∴ 512-280-5165 D BLOCK DESIGNATION		NOTARY PUBLIC, STATE OF TEXAS PRINTED NOTARY NAME MY COMMISSION EXPIRES:	
ACREAGE: 12.032 ACRES SURVEY: PHILIP A. SMITH SURVEY NO. 26 ABSTRACT NO. 415		SEWAGE DISPOSAL/INDIVIDUAL WATER SUPPLY CERTIFICATION, TO NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNT WATER SYSTEM. DUE TO DECLINING WATER SUPPLY AND DIMINI COUNTY TO QUESTION THE SELLER CONCERNING GROUND WATE OFFER THE BEST RENEWABLE WATER RESOURCE. NO STRUCTU SEWER SYSTEM OR TO AN ON-SITE WASTEWATER SYSTEM THA DEVELOPMENT WITHIN THIS SUBDIVISION MAY BEGIN UNTIL ALL	D-WIT: TIL CONNECTED TO AN INDIVIDUAL WATER SUPPLY OR STATE-APPROVED COMMUNIT ISHING WATER QUALITY, PROSPECTIVE PROPERTY OWNERS ARE CAUTIONED BY HAY IR AVAILABILITY. RAIN WATER COLLECTION IS ENCOURAGED AND IN SOME AREAS MA IRE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A PERMITTE IT HAS BEEN APPROVED AND PERMITTED BY HAYS COUNTY. NO CONSTRUCTION OF HAYS COUNTY DEVELOPMENT AUTHORIZATION REQUIREMENTS HAVE BEEN SATISFIED
HAYS COUNTY, TEXAS <u>TOTAL NO. LOTS</u> 4 NO. RESIDENTIAL LOTS 3 NO. NON-RESIDENTIAL LOTS 1 NO. OF BLOCKS 1 NO. OF BLOCKS 1		MARCUS PACHECO, DIRECTOR HAYS COUNTY DEVELOPMENT SERVICES CHAD GILPIN, P.E., CITY ENGINEER	ERIC VAN GAASBEEK, R.S., C.F.M. HAYS COUNTY FLOODPLAIN ADMINSTRATOR
CALITERRA PHASE ONE, SECTION FIVE INSTRUMENT NO. 17019690 AREA TABLE		A.J. GRAY OPERATIONS GENERAL MANAGER DRIPPING SPRINGS WATER SUPPLY CORP. WATER UTILITY PROVDER	AARON REED PUBLIC WORKS DIRECTOR CITY OF DRIPPING SPRINGS WASTEWATER UTILITY PROVIDER
AREA WITHIN SUBDIVISION12.032 ACRES (524,109 SQ. FT.)AREA OF SINGLE FAMILY LOTS3.097 ACRES (134,926 sq. ft.)AREA WITHIN PUBLIC STREETS0 ACRES (0 sq. ft.)BLOCK 'F'0 ACRES (100 sq. ft.)		THIS PLAT, REPLAT OF LOT 9, BLOCK F, CALITERRA PHASE TW DRIPPING SPRINGS AND IS HEREBY APPROVED THIS THE DAY OF	NO, SECTION SEVEN, HAS BEEN SUBMITTED AND CONSIDERED BY THE CITY OF
LOT NO. ACREAGE SQ. F1. 9A 8.934 ACRES 389,183 SQ. FT. 10 1.049 ACRES 45,678 SQ. FT. 11 1.052 ACRES 45,819 SQ. FT. 12 0.997 ACRES 43,429 SQ. FT. LOT SIZE NO. < 1 ACRE		MIM JAMES, PLANNING & ZONING COMMISSION CHAIR DATE STATE OF TEXAS } COUNTY OF HAYS } I, THE UNDERSIGNED, DIRECTOR OF HAYS COUNTY DEVELOP HAYS COUNTY REQUIREMENTS AS STATED IN THE INTERLOC/ SPRINGS FOR SUBDIVISION REGULATION WITHIN THE EXTRATER	ANDREA CUNNINGHAM, DEPUTY CITY SECRETARY DATE MENT SERVICES, HEREBY CERTIFY THAT THIS SUBDIVISION PLAT CONFORMS TO AL COOPERATION AGREEMENT BETWEEN HAYS COUNTY AND THE CITY OF DRIPP RITORIAL JURISDICTION OF THE CITY OF DRIPPING SPRINGS.
1-2 ACRE 3 angent DELTA 10.01 3'28'25" 51.00 17'34'17"		MARCUS PACHECO, DIRECTOR HAYS COUNTY DEVELOPMENT SERVICES	DATE:
37.07 12'49'13" > 10 ACRE 0 OF LOT 0.997 AC (43,429 sq. ft.) SEVEN, AVERAGE LOT SIZE: .R 22, 5.332 AC (232,240 sq. ft.)		I, ELAINE HANSON CARDENAS, COUNTY CLERK OF HAYS COUN CERTIFICATE OF AUTHENTICATION WAS FILED FOR RECORD IN 20 A.D., AT O'CLOCKM. IN T WITNESS MY HAND AND SEAL OF OFFICE, THIS THE	MY OFFICE ON THE DAY OF, HE PLAT RECORDS OF HAYS COUNTY, TEXAS, AS INSTRUMENT NO, DAY OF, 20, A.D.
Civil Engineering 5501 West William Cannon Phone No. (512) 280-5160 Civil 280-5160 Civil Engineering Surveying Austin, Texas 78749 Fax No. (512) 280-5165		ELAINE HANSON CARDENAS BY: COUNTY CLERK HAYS COUNTY, TEXAS	
J: \AC3D\5138\dwg\5138-PLA	ΥT		

AT OF LOT 9, BLOCK F, PHASE TWO, SECTION SEVEN

<u>GENERAL NOTES:</u>

- 1. THIS REPLAT IS WITHIN THE EXTRA TERRITORIAL JURISDICTION (ETJ) OF THE CITY OF DRIPPING SPRINGS.
- 2. NO PORTION OF THIS PLAT LIES WITHIN THE BOUNDARIES OF THE EDWARDS AQUIFER RECHARGE ZONE. 3. THIS PLAT LIES WITHIN THE BOUNDARIES OF THE CONTRIBUTING ZONE OF THE EDWARDS AQUIFER ZONE.
- 4. THIS PLAT IS LOCATED WITHIN THE DRIPPING SPRINGS INDEPENDENT SCHOOL DISTRICT.
- ACCESS TO AND FROM CORNER LOTS SHALL ONLY BE PERMITTED FROM ONE STREET. 6. NO PORTION OF THE SUBJECT PLAT PROPERTY IS LOCATED WITHIN A DESIGNATED 100 YEAR FLOOD PLAIN AS DELINEATED ON F.I.R.M. PANEL NO 48209C0115F, DATED SEPTEMBER 2, 2005, AS PREPARED BY THE FEDERAL
- EMERGENCY MANAGEMENT AGENCY. WATER SERVICE WILL BE PROVIDED TO EACH LOT FROM THE DRIPPING SPRINGS WATER SUPPLY CORPORATION.
- 8. ORGANIZED WASTEWATER SERVICE WILL BE PROVIDED TO EACH LOT BY THE CITY OF DRIPPING SPRINGS. . ELECTRIC SERVICE WILL BE PROVIDED BY THE PEDERNALES ELECTRIC COOPERATIVE.
- 10. TELEPHONE SERVICE WILL BE PROVIDED BY VERIZON.
- 11. IF GAS LINES ARE NOT INCLUDED IN THE CONSTRUCTION PLANS, THERE WILL BE SEPARATE SITE DEVELOPMENT PLAN, APPLICATION, AND FEES REQUIRED.
- 12. MINIMUM FRONT SETBACK SHALL BE 20'.
- 13. MINIMUM REAR SETBACK SHALL BE 20'.
- 14. MINIMUM SIDE AND INTERIOR SIDE YARD SETBACKS SHALL BE 5'. 15. MINIMUM SIDE YARD SETBACKS ADJACENT TO A PUBLIC STREET SHALL BE 10'.
- 16. UTILITY EASEMENTS OF 15 FEET SHALL BE LOCATED ALONG EACH SIDE OF DEDICATED R.O.W.
- 17. ALL STREETS SHALL BE DESIGNED IN ACCORDANCE WITH APPLICABLE CITY OF DRIPPING SPRINGS AND HAYS COUNTY DEVELOPMENT REGULATIONS. 18. NO STRUCTURE SHALL BE OCCUPIED UNTIL A CERTIFICATE OF OCCUPANCY IS ISSUED BY THE CITY OF DRIPPING
- SPRINGS. 19. NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A STATE APPROVED COMMUNITY
- WATER SYSTEM. 20. NO STRUCTURE IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO A STATE APPROVED ORGANIZED WASTE WATER SYSTEM.
- 21. NO CONSTRUCTION OR OTHER DEVELOPMENT WITHIN THIS SUBDIVISION MAY BEGIN UNTIL ALL OF HAYS COUNTY DEVELOPMENT AUTHORIZATION REQUIREMENTS HAVE BEEN SATISFIED. 22. IN ORDER TO PROMOTE SAFE USE OF ROADWAYS AND TO PRESERVE THE CONDITIONS OF PUBLIC ROADWAYS, NO
- DRIVEWAY CONSTRUCTED ON ANY LOT WITHIN THIS SUBDIVISION SHALL BE PERMITTED ACCESS ONTO A PUBLIC ROADWAY UNLESS (A) A PERMIT FOR USE OF THE COUNTY RIGHT-OF-WAY HAS BEEN ISSUED UNDER AND (B) THE DRIVEWAY SATISFIES THE MINIMUM SPACING REQUIREMENTS FOR DRIVEWAYS AS SET FORTH IN CHAPTER 721 OF THE HAYS COUNTY DEVELOPMENT REGULATIONS.
- 23. DEVELOPMENT AND RESTRICTIONS WITHIN THE CITY OF DRIPPING SPRINGS AND TCEQ WATER QUALITY BUFFER ZONES ARE LIMITED TO THOSE LISTED IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S (TCEQ) OPTIONAL ENHANCED MEASURES FOR THE PROTECTION OF WATER QUALITY IN THE EDWARDS AQUIFER (REVISED) OR AS PERMITTED BY THE
- 24. ALL LOTS ARE REQUIRED TO COMPLY WITH THE THEN CURRENT ADOPTED BUILDING CODE AS ADOPTED BY THE CITY OF DRIPPING SPRINGS, AND THE FIRE CODE ADOPTED BY ESD #6. THIS IS TO INCLUDE THE PULLING OF BUILDING PERMITS THROUGH THE CITY OF FOR ALL APPLICABLE CONSTRUCTION.
- 25. PER THE DEVELOPMENT AGREEMENT BETWEEN CITY OF DRIPPING SPRINGS AND DEVELOPMENT SOLUTIONS CAT, LLC, THE CALITERRA DEVELOPMENT PROJECT IS SUBJECT TO AN INTEGRATED PEST MANAGEMENT (IPM) PLAN. 26. ALL SIDEWALKS ARE TO BE MAINTAINED BY THE HAYS COUNTY DEVELOPMENT DISTRICT #1
- 27. POST-DEVELOPMENT CONDITIONS RUNOFF RATE SHALL BE NO GREATER THAN THE PREDEVELOPED CONDITION FOR 2, 5, 10, 25, AND 100 YEAR STORM EVENTS, PER HAYS COUNTY DEVELOPMENT REGULATIONS, CHAPTER 725, SUBCHAPTER 3.02. PRE AND POST DEVELOPMENT RUNOFF CALCULATIONS SHALL BE INCLUDED WITH THE CONSTRUCTION DRAWINGS FOR THIS SUBDIVISION.
- 28. ALL ROADWAYS IN THIS DEVELOPMENT ARE TO BE DEDICATED TO THE PUBLIC AND MAINTAINED BY HAYS COUNTY. 29. THIS DEVELOPMENT IS SUBJECT TO THE CALITERRA DEVELOPMENT AGREEMENT DATED JANUARY 14, 2014 BETWEEN THE CITY OF DRIPPING SPRINGS AND DEVELOPMENT SOLUTIONS CAT, LLC., RECORDED IN VOLUME 4978, PAGE 215,
- OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS. 30. PEC ELECTRIC EASEMENTS OF FIVE (5) FEET SHALL BE LOCATED ALONG EACH SIDE LOT LINE, A/C PADS AND A/C UNITS SHALL BE ALLOWED TO ENCROACH WITHIN THE PEC ELECTRIC EASEMENT PER CONSULTATION WITH PEC.
- 31. THE PURPOSE OF THIS REPLAT IS TO ADD LOT 9A, AND LOTS 10-12, BLOCK F.
- 32. THIS PLAT IS LOCATED WITHIN THE HAYS TRINITY GROUNDWATER CONSERVATION DISTRICT. 33. THIS PLAT IS LOCATED WITHIN NORTH HAYS COUNTY EMERGENCY SERVICE DISTRICT #1 AND HAYS COUNTY FIRE EMERGENCY SERVICE DISTRICT #6.

STATE OF TEXAS: COUNTY OF TRAVIS:

I, BRETT R. PASQUARELLA, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, HEREBY CERTIFY THAT PROPER ENGINEERING CONSIDERATION HAS BEEN GIVEN THIS PLAT. I CERTIFY TO THE COMPLETENESS, ACCURACY AND COMPLIANCE TO THE CITY OF DRIPPINGS SPRINGS SUBDIVISION ORDINANCES.

FLOOD PLAIN NOTE: NO PORTION OF THIS TRACT IS WITHIN THE DESIGNATED FLOOD HAZARD AREA AS SHOWN ON THE FEDERAL INSURANCE RATE MAP PANEL NO. 48209C0115F, DATED SEPTEMBER 02, 2005. -STATE OF TELL

-*:* ENGINEERING BY:__ BRETT R. PASQUARELLA, P.E., No. 84769 DATE CARLSON, BRIGANCE & DOERING, INC. BRETT R. PASQUARELLA 5501 WEST WILLIAM CANNON DRIVE, 84769 S. CENSED S. ONAL AUSTIN, TEXAS 78749 THIS FLOOD STATEMENT, AS DETERMINED BY A H.U.D.-F.I.A. FLOOD INSURANCE RATE MAP, DOES NOT IMPLY THAT THE PROPERTY OR THE IMPROVEMENTS THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FOODS CAN AND WILL OCCUR, AND FLOOD HEIGHTS MAY INCREASE BY MAN-MADE OR NATURAL CAUSES.

THIS STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF ENGINEER OR SURVEYOR.

STATE OF TEXAS: COUNTY OF TRAVIS:

I, AARON V. THOMASON, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING, AND HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH THE REQUIREMENTS OF THE CITY OF DRIPPING SPRINGS, TEXAS, AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND.

SURVEYED BY: AARON V. THOMASON, R.P.L.S. NO. 6214 CARLSON, BRIGANCE & DOERING, INC. 5501 WEST WILLIAM CANNON DRIVE AUSTIN, TEXAS 78749 A REPLAT OF 12.032 ACRES, BEING A REPLAT OF LOT 9, BLOCK F, CALITERRA PHASE TWO, SECTION SEVEN, OUT OF THE PHILIP A. SMITH SURVEY NUMBER 22, ABSTRACT NUMBER 415, HAYS COUNTY, TEXAS	DATE	
	Carlson, Brigance & Doering, Inc	
C(B)D	Civil Engineering♦Surveying5501 West William Cannon♦Austin, Texas 78749Phone No. (512) 280-5160♦Fax No. (512) 280-5165	



· * /

SHEET NO. 3 OF 13

SUPPLY OR STATE-APPROVED COMMUNITY OPERTY OWNERS ARE CAUTIONED BY HAYS IS ENCOURAGED AND IN SOME AREAS MAY UPIED UNTIL CONNECTED TO A PERMITTED BY HAYS COUNTY. NO CONSTRUCTION OR ION REQUIREMENTS HAVE BEEN SATISFIED.

THIS SUBDIVISION PLAT CONFORMS TO ALL HAYS COUNTY AND THE CITY OF DRIPPING DRIPPING SPRINGS.

THE FOREGOING INSTRUMENT IN WRITING WITH ITS

EXAS, AS INSTRUMENT NO. _____.


APPENDIX	P-1	—	EROSION	CONTROL
NOTES				

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION). THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE COA ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF AUSTIN ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL BY HAYS COUNTY AND DRIPPING SPRINGS EV PLAN REVIEWERS AS WELL AS HAYS COUNTY AND DRIPPING SPRINGS EV INSPECTORS.
- THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN
- ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE OWNER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT, AT LEAST THREE DAYS PRIOR TO THE MEETING DATE. COA APPROVED ESC PLAN AND TPDES SWPPP (IF REQUIRED) SHOULD BE REVIEWED BY HAYS COUNTY AND DRIPPING SPRINGS EV INSPECTOR AT THIS TIME.
- ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER. ENVIRONMENTAL SPECIALIST OR CITY ABORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
- THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR WITH EITHER A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), CERTIFIED EROSION, SEDIMENT AND STORMWATER-INSPECTOR (CESSWI) OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
- PRIOR TO FINAL ACCEPTANCE BY HAYS COUNTY AND DRIPPING SPRINGS, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS; ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY
- RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A HAYS COUNTY AND DRIPPING SPRINGS ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) Α.
 - INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 6015.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES. THE TOPSOIL SHALL BE COMPOSED OF 4 PARTS OF SOIL MIXED WITH 1 PART COMPOST, BY VOLUME. THE COMPOST SHALL MEET THE DEFINITION OF COMPOST AS DEFINED BY TXDOT SPECIFICATION ITEM 161. THE SOIL SHALL BE LOCALLY AVAILABLE NATIVE SOIL THAT MEETS THE FOLLOWING SPECIFICATIONS: SHALL BE FREE OF TRASH, WEEDS, DELETERIOUS MATERIALS, ROCKS, AND DEBRIS.
 - 100% SHALL PASS THROUGH A 1.5-INCH (38-MM) SCREEN.
 - SOIL TO BE A LOAMY MATERIAL THAT MEETS THE REQUIREMENTS OF THE TABLE BELOW IN ACCORDANCE WITH THE USDA TEXTURAL TRIANGLE. SOIL KNOWN LOCALLY AS "RED DEATH" IS NOT AN ALLOWABLE SOIL. TEXTURAL COMPOSITION SHALL MEET THE FOLLOWING CRITERIA:

TEXTURE CLASS	MINIMUM	MAXIMUM
CLAY	5 %	50 %
SILT	10 %	50 %
SAND	15 %	67 %

- S AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE SOIL TEXTURE CLASS REQUIRED ABOVE BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING
- WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED. SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL-BLENDED MATERIAL. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY OFTEN BE USED, BUT IT SHOULD MEET THE SAME STANDARDS AS SET FORTH IN THESE STANDARDS.

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

TEMPORARY VEGETATIVE STABILIZATION

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH COOL SEASON COVER CROPS (WHEAT AT 0.5 POUNDS PER 1000 SF, OATS AT 0.5 POUNDS PER 1000 SF, CEREAL RYE GRAIN AT 0.5 POUNDS PER 1000 SF) WITH A TOTAL RATE OF 1.5 POUNDS PER 1000 SF. COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL

- 2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUNDS PER 1000 SF. A. FERTILIZER SHALL BE WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1/2 POUND PER 1000 SF.
 - HYDROMULCH SHALL COMPLY WITH TABLE1, BELOW. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1 1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
 - D. WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL.

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

MATERIAL	LONGEVITY	DESCRIPTION	TYPICAL APPLICATIONS	APPLICATION RATES
100% OR ANY BLEND OF WOOD, CELLULOSE, STRAW, AND/OR COTTON MATERIAL (EXCEPT NO MULCH SHALL EXCEED 30% PAPER)	0-3 MONTHS	70% OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL FIBERS	MODERATE SLOPES; FROM FLAT TO 3:1	1500 TO 2000 LBS PER ACER
ANENT VEGETATIVE STABILIZA	TION			

PERM 1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (1/2) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH 2. BELOW.

FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINATION. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL.

A. FERTILIZER SHALL BE A WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1/2 POUND PER 1000 SF. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.

- THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT DAILY INTERVALS (MINIMUM) DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.
- PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 11/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET FXIST WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF

AUSTIN ENVIRONMENTAL CRITERIA MANUAL. TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION

BONDED FIBER MATRIX (BFM)80% ORGANIC DEFIBRATED FIBERS 10% TACKIFIERON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS2500 TO 4000 LB PER ACRE (SEE MANUFACTURES RECOMMENDATIONS	MATERIAL	DESCRIPTION	LONGEVITY	APPLICATIONS	APPLICATION RATES
	BONDED FIBER MATRIX (BFM)	80% ORGANIC DEFIBRATED FIBERS 10% TACKIFIER	6 MONTHS	ON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS	2500 TO 4000 LBS PER ACRE (SEE MANUFACTURES RECOMMENDATIONS)
FIBER REINFORCED MATRIX (FRM)65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIRBERS OR LESS 10% TACKIFIERUP TO 12 MONTHSON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS3000 TO 4000 LB PER ACRE (SEE MANUFACTURES RECOMMENDATIONS	FIBER REINFORCED MATRIX (FRM)	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIRBERS OR LESS 10% TACKIFIER	UP TO 12 MONTHS	ON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3000 TO 4000 LBS PER ACRE (SEE MANUFACTURES RECOMMENDATIONS)

10. DEVELOPER INFORMATION OWNER DEVELOPMENT SOLUTIONS CAT, LLC PHONE #(512)651-8100 ADDRESS 90 SOUTH SEVENTH STREET, MINNEAPOLIS, MN 55402

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE:

CONTRACTOR PHONE # . PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE: CONTRACTOR _ PHONE # ____

SILT FENCE FABRIC-FLOW TRENCH (BACKFILLED) STANDARD SYMBOL FOR SILT FENCE (SF) _____ NOTES: THE STEEL OR WOOD FENCE POST.



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	SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL	G F	Z	RC.
	AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL	NIC		MP
	UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24- HOURS PRIOR TO COMMENCING CONSTRUCTION.	AP.	ΕČ	AIN ER J
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DRIPPING SPRINGS WATER SUPPLY CORPORATION DETAILS 1 OF 2 JUNE 2022 Ш | TAP L BE OVER EXCAV RAVEL BELOW THE OW THROUGH WATER AND WASTEWATER CROSSING OVER EXCAVATION TRENCH DETAIL I. WHEN CEMENT STABILZED SAND IS USED, THE TRENCH SHALL BY 12 INCHES TO PROVIDE A MINIMUM OF 12 INCHES OF GRA CEMENT STABILZED SAND TO ALLOW FOR GROUND WATER FLOW TRENCHES. 2. OVER EXCAVATION SHALL EXTEND 5 FEET BEYOND THE CEMENT ON BOTH SIDES OF THE PIPE. 3. THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30TAC 8 CEMEN SEE 3 CEMEN CEMEN SEE 3 ΗĒ Liolad Inembedma and (Contraction) VALVE IN FIEL SUBJECT TO 7 ·dx1 "8 N.O.A See Embedment Detail NOTES: 1. This clea BENDS VARY (11.25 22.5 VALVE νī Ν /ACUUM ОU INATIO





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Image: State Stat	AME SHALL BE FLUSH WITH THE CONC. PAD AND PLACED ½" - 2" ABOVE RISER PIPE		∧Carlson. Brigance & Doering	BD Civil Engineering ♦ Surveying FIRM ID #F3791	Main Office North Office 5501 West William Cannon Dr. 12129 RR 620 N., St Austin, Texas 78749 Austin, Texas 787 Phone No. (512) 280-5160 www.cbdeng.co
MATTER INTERVAL MATTER	RETE PAD. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND PURPLE FOR WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL IDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" N BOTH SIDES. LL TYPICALLY BE CENTERED IN CONCRETE DIAMOND BUT MAY BE OFFSET WITH A MIN. M CENTER OF VALVE LID TO EDGE OF CONCRETE IN ALL DIRECTIONS. DEPTH OF ASPHALT PLUS CONC. IS 9" AND MIN. DEPTH OF CONC. PAD SHALL BE 5" TEMP. GRADE FINAL GRADE FINAL GRADE FRAME & LID			Ŭ 	
KEITH GALLAGHER 148170 CENSS CRESON, BROMME, & DOEBNG, INC. D& F3791 10/5/23 DATE October 2023 JOB NUMBER 5138 SHEET 10 OF 13	CONC. PAD PROHIBIT DEERIS PROMENTERING B' DR 18 PVC PIPE RISERT INVOLVE BOOT CS VALVE BOOT CS VALVE BOOT CS VALVE BOOT CS VALVE BOOT CS VALVE BOOT CS VALVE BOOT CS VALVE CS VALV		SHEET NAME: WATER DETAILS (2 OF 2)	JOB NAME: CALITERRA PHASE 2 SECTION 7, LOT 9, BLOCK F	PROJECT: STREET, DRAINAGE, WATER, & WASTEWATER IMPROVEMENTS
DATE October 2023 JOB NUMBER 5138 SHEET 10 OF 13			CARLSON, F	TH GALLAC 148170 CENSE S/ONAL BRIGANCE, & D ID# F3791	ODERING, INC.
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		WASTEWATER SERVICE COI	NECTION
)1		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	standard no. 520—AW—01 4 of 4



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ATTACHMENT N

Operating and Maintenance Plan

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Maintenance Plan for Stormwater Management Facilities within the HAYS COUNTY DEVELOPMENT DISTRICT No. 1 Municipal Utility District

Construction and Acceptance of Improvements:

Upon construction completion of storm water facilities by the Developer and subsequent acceptance by Hays County Development District No. 1 Municipal Utility District, the District will be responsible for the operations and maintenance of such facilities.

Contact Information for Party Responsible for storm water facilities

Capital Area Utility Management, LLC 12129 RR 620 North, Suite 600 Austin, TX 78750 (512) 738-8840

Basin Maintenance

A common sign of failure of some storm water facilities standing water long after the rain event ends. This is especially true in detention basins. In addition, wet ponds may also need to be drained for maintenance purposes. The water in each of these systems can be pumped into the storm drain conveyance system downstream of the facility as long as it has been at least 48 hours since the last rain event. This delay usually provides sufficient time for most of the pollutants to settle out of the standing water; however, the discharge of sediment laden water is not allowed at any time.

Sediment Disposal

Stormwater pollutants include a variety of substances that are deposited on pervious and impervious surfaces and then transported by the next rainfall. In addition, there may be connections to the stormwater system that should go to the sanitary sewer system in older urbanized areas. Consequently, a variety of contaminants that may be classified as hazardous or toxic may enter stormwater management systems. These contaminants include heavy metals, petroleum hydrocarbons, pesticides, and a variety of organic chemicals. Consequently, several federal and state laws and regulations may apply to the disposal of sediments which accumulate in stormwater systems or which are captured by street sweepers.

Detention

Detention basins have moderate to high maintenance requirements, depending on the extent to which future maintenance needs are anticipated during the design stage. Responsibilities for both routine and nonroutine maintenance tasks need to be clearly understood and enforced. If regular maintenance and inspections are not undertaken, the basin will not achieve its intended purposes.

There are many factors that may affect the basin's operation and that should be periodically checked. These factors can include mowing, control of pond vegetation, removal of accumulated bottom sediments, removal of debris from all inflow and outflow structures, unclogging of orifice perforations, and the upkeep of all physical structures that are within the detention pond area. One should conduct periodic inspections and after each significant storm. Remove floatables and correct erosion problems in the pond slopes and bottom. Pay particular attention to the outlet control perforations for signs of clogging. If the orifices are clogged, remove sediment and other debris. The generic aspects that must be considered in the maintenance plan for a detention facility are as follows: • *Inspections.* Basins should be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. When possible, inspections should be conducted during wet weather to determine if the pond is meeting the target detention times. In particular, the extended detention control device should be regularly inspected for evidence of clogging, or conversely, for too rapid a release. If the design drawdown times are exceeded by more than 24 hours, then repairs should be scheduled immediately. The upper stage pilot channel, if any, and its flow path to the lower stage should be checked for erosion problems. During each inspection, erosion areas inside and downstream of the facility should be identified and repaired or revegetated immediately.

• *Mowing*. The upper stage, side slopes, embankment, and emergency spillway of an extended detention basin must be mowed regularly to discourage woody growth and control weeds. Grassy areas in and around basins should be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. When mowing of grass is performed, a mulching mower should be used, or grass clippings should be caught and removed.

• *Debris and Litter Removal.* Debris and litter will accumulate near the extended detention control device and should be removed during regular mowing operations and inspections. Particular attention should be paid to floating debris that can eventually clog the control device or riser.

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

• *Structural Repairs and Replacement*. With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. These repairs should include patching of cracked concrete, sealing of voids, and removal of vegetation from cracks and joints. The various inlet/outlet and riser works in a basin will eventually deteriorate and must be replaced. Public works experts have estimated that corrugated metal pipe (CMP) has a useful life of about 25 yrs, whereas reinforced concrete barrels and risers may last from 50 to 75 yrs.

• *Nuisance Control.* Standing water (not desired in a detention basin) or soggy conditions within the lower stage of the basin can create nuisance conditions for nearby residents. Odors, mosquitoes, weeds, and litter are all occasionally perceived to be problems. Most of these problems are generally a sign that regular inspections and maintenance are not being performed (e.g., mowing, debris removal, clearing the outlet control device).

• Sediment Removal. When properly designed, dry detention basins will accumulate quantities of sediment over time. Sediment accumulation is a serious maintenance concern in extended detention dry ponds for several reasons. First, the sediment gradually reduces available stormwater management storage capacity within the basin. Second, sediment accumulation can make dry extended detention basins very unsightly.

Third, and perhaps most importantly, sediment tends to accumulate around the control device. Sediment deposition increases the risk that the orifice will become clogged, and gradually reduces storage capacity reserved for pollutant removal. Sediment can also be resuspended if allowed to accumulate over time and escape through the hydraulic control to downstream channels and streams. For these reasons, accumulated sediment needs to be removed from the lower stage when sediment buildup fills 20% of the volume of the basin or at least every 10 years.

Hazardous Material Spills

• *Hazardous Material Spills*. Non-storm water discharges are not expected from this site. After construction, in case of a hazardous material spill, the District's Operator, Inframark LLC., will be required to close valves from the discharge lines. A valve key shall be carried in all maintenance vehicles operating in the District at all times. The valve shall be fully shut-off. Shut-off is in the counter-clockwise direction.

Owner Signature:

.Rich

Gregory L. Rich, Manager

CF CSLK Caliterra, LLC c/o SR Capital Management-Caliterra 12222 Merit Drive, Suite 1020 Dallas, Texas 75251

ATTACHMENT P

Measures for Minimizing Surface Stream Contamination

The project utilizes filter strips to minimize surface stream contamination. The filter strips will reduce the sediment pollutant load to be less than or equal to that of existing loads.

III. Water Quality Design

WATER QUALITY METHODOLOGY

A filter strips is proposed downstream at the back of the lots in order to treat the impervious cover runoff from the upstream lot. The removal calculation for the filter strip, as well as a bmp drainage map, are included following this page.



TCEQ TSS REMOVAL CALCULATIONS

OPTIONAL ENHANCED MEASURES

Texas Commission on Environmental Quality					
TSS Removal Calculations 04-20-2009 OPTIONAL ENHANCED MEASURES			Project Name: Date Prepared:	Caliterra 2-7 Replat 9/20/2023	
Additional information is provided for cells with a red triangle Text shown in blue indicate location of instructions in the Technical Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Change	in the upp Guidance Jes to thes	<mark>ber right corner.</mark> Manual - RG-348 se fields will rem	Place the curs	or over the cell.	et.
1. The Required Load Reduction for the total project:	Calculation	s from RG-348		Pages 3-27 to 3-30	
Page 3-29 Equation 3.3: L_{M} =	27.7(A _N x F	²)			
where:	Required T	SS removal resulting	from the proposed	development = 80% of increased	loan 1 0
$A_{\rm N} =$	Net increas	e in impervious area	for the project	lola l	Total
P =	Average ar	nual precipitation, inc	hes	100	ACCESSION OF THE PROPERTY OF T
Site Data: Determine Required Load Removal Based on the Entire Project	Havs			TAT	EOFTEE
Total project area included in plan * =	12.03	acres		State State	
Predevelopment impervious area within the limits of the plan * = Total post-development impervious area within the limits of the plan* =	0.00	acres			
Total post-development impervious cover fraction * =	0.04				
P =	33	inches		KEITH	GALLAGHER
=	300	lbc		1 PR	148170
* The values entered in these fields should be for the total project area.	335	105.		10	
				1,55	CENSED G
Number of drainage basins / outfalls areas leaving the plan area =	15			a	Alessana a
				1/ 2	20/2023
2. Drainage Basin Parameters (This information should be provided for eac	ch basin):				
Drainage Basin/Outfall Area No. =	1	Filter Strips below	v lots		
Total drainage basin/outfall area =	2.60	acres			
Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area =	0.00	acres			
Post-development impervious fraction within drainage basin/outfall area =	0.17				
L _{M THIS BASIN} =	402	lbs.			
3. Indicate the proposed BMP Code for this basin.					
Proposed BMP =	Vegetated	Filter Strips			
Removal efficiency =	85	percent		Aqualogic Cartridge Filter Batch Detention Bioretention Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin	
4. Calculate Maximum TSS Load Removed (L _R) for this Drainage Basin by t	he selected	BMP Type.		Wet Vault	
RG-348 Page 3-33 Equation 3.7: L _R =	(BMP efficie	ency) x P x (A ₁ x 34.6	+ A _P x 0.54)		
where: A _C =	Total On-Sit	e drainage area in the	BMP catchment	area	
A ₁ =	Impervious a	area proposed in the	BMP catchment ar	ea	
	Pervious are	ea remaining in the Bi	MP catchment area	a proposed RMP	
-7	TOO LOUUN		sinnent area by the	proposed binn	
A _c =	2.60	acres			
$A_1 = \Delta =$	0.44	acres			
L _R =	460	lbs			
5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall a	area				
Desired L _{M THIS BASIN} =	460	lbs.			
F =	1.00]

IV. GEOLOGICAL ASSESSMENT FORM (TCEQ-0585)



Environmental Services, Inc.

GEOLOGIC ASSESSMENT FOR 320-ACRE CALITERRA DEVELOPMENT PHASE 2 DRIPPING SPRINGS, HAYS COUNTY, TEXAS HJN 130091 GA

PREPARED FOR:

CMA ENGINEERING, INC. AUSTIN, TEXAS

PREPARED BY:

HORIZON ENVIRONMENTAL SERVICES, INC. TBPG FIRM REGISTRATION NO. 50488



APRIL 2015

Caliterra GA Ph 2

CORPORATE HEADQUARTERS 1507 South IH 35 ★ Austin, Texas 78741 ★ 512.328.2430 ★ Fax 512.328.1804 ★ www.horizon-esi.com Certified WBE/HUB/DBE/SBE



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Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Geologist: James Killian

Telephone: 512 328-2430

Date: 22 April 2015

Fax: <u>512 328-1804</u>

Representing: <u>Horizon Environmental Services, Inc. and TBPG Firm Registration No. 50488</u> (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: <u>320-Acre Caliterra Development Phase 2; Dripping Springs, Hays</u> County, Texas

Project Information

- 1. Date(s) Geologic Assessment was performed: 26 and 30 March; 1 and 2 April, 2015
- 2. Type of Project:

\times	WPAP
\mathbf{X}	SCS

3. Location of Project:

Reck	narge	Zone
		_

Transition Zone

Contributing Zone within the Transition Zone

- 4. X Attachment A Geologic Assessment Table. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
- 5. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Soil Name	Group*	Thickness(feet)
Bolar clay loam, 1-3% slopes (BrB)	С	1 to 2
Brackett-Rock outcrop- Comfort complex, 1-8% slopes (BtD)	C & D	0 to 0.5
Brackett-Rock outcrop-Real complex, 8- 30% slopes (BtG)	C & D	0.5 to 1

Table 1 - Soil Units, InfiltrationCharacteristics and Thickness

Soil Name	Group*	Thickness(feet)
Comfort-Rock outcrop complex, 1-8% slopes (CrD)	D	0 to 0.5
Lewisville silty clay, 1-3% slopes (LeB)	В	0 to 0.5

- * Soil Group Definitions (Abbreviated)
 - A. Soils having a high infiltration rate when thoroughly wetted.
 - B. Soils having a moderate infiltration rate when thoroughly wetted.
 - C. Soils having a slow infiltration rate when thoroughly wetted.
 - D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. X Attachment C Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
- 8. Attachment D Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

Applicant's Site Plan Scale: 1" = <u>300</u>'

Site Geologic Map Scale: 1" = <u>300</u>' Site Soils Map Scale (if more than 1 soil type): 1" = <u>800</u>'

9. Method of collecting positional data:

Global Positioning System (GPS) technology.

Other method(s). Please describe method of data collection: _____

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

Geologic or manmade features were not discovered on the project site during the field investigation.

- 13. The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

There are $\underline{2}$ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)

-] The wells are not in use and have been properly abandoned.
-] The wells are not in use and will be properly abandoned.
- The wells are in use and comply with 16 TAC Chapter 76.
- There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

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



TCEQ GEOLOGIC ASSESSMENT ADDITIONAL COMMENTS

1.0 INTRODUCTION AND METHODOLOGY

This report and the planned abatement measures are intended to fulfill Texas Commission on Environmental Quality (TCEQ) reporting requirements (TCEQ, 1999). This geologic assessment includes a review of the site for potential aquifer recharge and documentation of general geologic characteristics for the subject site. Horizon conducted the necessary field and literature studies according to TCEQ Instructions to Geologists for completing Geologic Assessments within the Edwards Aquifer Recharge Zone (TCEQ, 2004).

In addition, this report complies with TCEQ Optional Enhanced Measures (OEM) for the Protection of Water Quality in the Edwards Aquifer RG-348 for new development in areas subject to the TCEQ Edwards Aquifer Rules (30 TAC Chapter 213). These measures provide a higher level of water quality protection and may be adopted by those who wish to implement additional measures for environmental protection or to satisfy requirements for agencies other than the TCEQ; as such, the implementation of these measures for the proposed development have been agreed upon between the US Fish and Wildlife Service (USFWS) and the developer of this property.

Horizon walked transects spaced 50 feet apart and mapped the location of features using a sub-foot accurate Trimble Geo HX handheld GPS and posted processed data utilizing GPS Pathfinder Office software, topographic maps, and aerial photographs. Horizon also searched the area around any potential recharge features encountered to look for any additional features.

The Geologic Assessment Table in Appendix C provides a description of any features that meet the TCEQ definition of potential recharge features (TCEQ, 2004). Features that do not meet the TCEQ definition, which include surface weathering, karren, or animal burrows, were evaluated in the field and omitted from this report. When necessary, Horizon removed loose rocks and soil (by hand) to preliminarily assess each feature's subsurface extent while walking transects. However, labor-intensive excavation was not conducted.

The results of this survey do not preclude the possibility of finding subsurface voids or abandoned test or water wells during the clearing or construction phases of the proposed project. If a subsurface void is encountered during any phase of the project, construction should be halted until the TCEQ (or appropriate agency) is contacted and a geologist can investigate the feature.

2.0 ENVIRONMENTAL SETTING

2.1 LAND USE

The current use of the subject site is for raising beef cattle on undeveloped rangeland. Surrounding land use is predominantly undeveloped and single-family residential (Appendix A, Figure 1).

2.2 TOPOGRAPHY AND SURFACE WATER

The subject site is situated on gently to steeply sloping terrain located within the Onion Creek watershed (Appendix A, Figures 2 and 3). Surface elevations on the subject site vary from a minimum of approximately 1064 feet above mean sea level (amsl) within an unnamed tributary of Onion Creek along the eastern property boundary to a maximum of approximately 1215 feet amsl near the northwestern corner. Drainage on the west half of the site occurs primarily by overland sheet flow toward the south into Turkey Hollow. Drainage on the east half of the site occurs primarily by overland sheet flow toward the east into several unnamed tributaries of Onion Creek.

2.3 EDWARDS AQUIFER ZONE

As shown on Appendix A, Figure 2, the subject site is found within the Edwards Aquifer Contributing Zone, as mapped by the TCEQ Recharge Zone Boundary Maps (TCEQ, 2015).

2.4 SURFACE SOILS

Mapping by the Natural Resources Conservation Service (NRCS, 2015) shows 6 soil mapping units within the subject site (Appendix A, Figure 4) associated with the soil series described below. Generally, the soil series are similar in their physical, chemical, and engineering properties, with the principal exception being rock fragment content and thickness.

Bolar clay loam (BrB) is a moderately deep, gently sloping soil on concave valley slopes and foot slopes of hills on uplands. Typically, the surface layer is dark grayish brown and dark brown clay loam about 14 inches thick. The subsoil extends to a depth of 28 inches and is brown clay loam. Indurated limestone interbedded with marl is at a depth of 28 inches. This soil is moderately alkaline and calcareous throughout. It is well drained and surface runoff is medium. The permeability is moderate and available water capacity is low.

Brackett-Rock outcrop-Comfort complex (BtD) consists of shallow, loamy, clayey soils and Rock outcrop on uplands in the Edwards Plateau. Many areas have a benched appearance along the hill slopes because of the horizontal bands of Rock outcrop. The Brackett and Comfort soils are between the bands of Rock outcrop. The Brackett soil makes up 30 to 60% of the



complex and Rock outcrop makes up 10 to 45%. The Comfort soil and similar soils make up 10 to 20%. Typically, the surface layer of the Brackett soil is grayish brown gravelly clay loam about 6 inches thick. The subsoil extends to a depth of 17 inches. It is very pale brown and pale yellow gravelly clay loam. The underlying material is weakly cemented limestone interbedded with thin layers of indurated limestone. The soil is moderately alkaline and calcareous throughout. Typically, the areas of Rock outcrop consist of exposures of limestone bedrock. In some areas, however, the rock is flat and is covered by soil material as much as 3 inches thick. Typically, the surface layer of the Comfort soil is dark brown extremely stony clay about 4 inches thick. The subsoil extends to a depth of 11 inches. It is dark reddish brown extremely stony clay. The underlying material is indurated, fractured limestone. The soil is moderately alkaline and noncalcareous throughout. The soils in this complex are well drained. Surface runoff is medium to rapid. Permeability is moderately slow in the Brackett soil and slow in the Comfort soil. The available water capacity is very low.

Brackett-Rock outcrop-Real complex (BtG) consists of shallow, loamy soils and Rock outcrop on uplands in the Edwards Plateau. Escarpments and high rounded hills and ridges and their side slopes are characteristic of the areas. Slopes have a benched appearance because of the horizontal layers of Rock outcrop. The Real and Brackett soils are between the areas of Rock outcrop. The Brackett soil makes up 20 to 55% of the complex. Rock outcrop makes up 10 to 46% and the Real soil makes up 10 to 30%. Typically, the surface layer of the Brackett soil is gravish brown gravelly clay loam about 6 inches thick. The subsoil extends to a depth of 14 inches. It is light gray gravelly clay loam. The underlying material is weakly cemented limestone interbedded with thin strata of pale yellow and very pale brown shaly clay. The soil is moderately alkaline and calcareous throughout. Typically, Rock outcrop is barren of soil except in narrow fractures in the rock. In some areas the rock is flat and has as much as 3 inches of soil material on the surface. Typically, the surface layer of the Real soil is very dark gravish brown gravelly clay loam about 12 inches thick. The upper part is about 20%, by volume, weakly cemented limestone gravel, and the lower part is about 60%. The underlying material is weakly cemented limestone. The soils in this complex are well drained. Surface runoff is rapid. Permeability is moderately slow in the Brackett soil and slow in the Real soil. The available water capacity is very low.

Comfort-Rock outcrop complex (CrD) consists of shallow, clayey soils and Rock outcrop on side slopes and on hilltops and ridgetops on uplands in the Edwards Plateau. Comfort extremely stony clay makes up 49 to more than 95% of the complex. Rock outcrop and areas of soil less than 4 inches deep make up 5 to 36%. The areas of Rock outcrop are long, narrow horizontal bands on hill slopes and along small drains. The Comfort soil is between the bands of Rock outcrop. Typically, the surface layer of the Comfort soil is dark brown extremely stony clay about 6 inches thick. Cobbles and stones as much as 4 feet across cover about 45% of the surface. The subsoil extends to a depth of 13 inches. It is dark reddish brown extremely stony clay. The underlying material is indurated, fractured limestone. The soil is mildly alkaline and noncalcareous throughout. The Comfort soil is well drained. Surface runoff is slow to medium.



Permeability is slow, and the available water capacity is very low. Typically, Rock outcrop is dolomitic limestone that is barren of soil except in narrow fractures in the rock. In some areas the rock is flat and has as much as 3 inches of soil material on the surface.

LewisvIIIe silty clay (LeB) is a deep, gently sloping soil on stream terraces. Typically, the surface layer is dark grayish brown silty clay about 15 inches thick. The subsoil to a depth of 33 inches is light brown silty clay, and, to a depth of 63 inches, it is reddish yellow silty clay. The soil is moderately alkaline and calcareous throughout. This soil is well drained and surface runoff is medium. Permeability is moderate. The available water capacity is high.

Sunev clay loam (SuB) is a deep, gently sloping soil on valley slopes and foot slopes of hills on uplands in the Edwards Plateau. Typically, the surface layer is dark grayish brown clay loam about 11 inches thick. The subsoil to a depth of 35 inches is brown clay loam. To a depth of 45 inches, it is reddish yellow clay loam that is about 15%, by volume, soft masses and concretions of calcium carbonate. The soil is moderately alkaline and calcareous throughout. It is about 45% calcium carbonate (lime). This soil is well drained. Surface runoff is medium to rapid. Permeability is moderate, and the available water capacity is medium (Batte, 1984).

2.5 GEOLOGY

A review of existing literature shows the subject site is predominately underlain by the Glen Rose Formation (Kgr), Bureau of Economic Geology (UT-BEG, 1981), with an estimated maximum thickness of about 400 feet. The Glen Rose Formation consists of alternating resistant and recessive beds of limestone, dolomite, and marl, which is subdivided into upper and lower members (Kgr[u] and Kgr[l]). Underlying the Glen Rose Limestone is the Hensell Sand, with an estimated thickness of about 85 feet.

Very small portions of the site located along the eastern boundary at lower elevations within the Onion Creek floodplain are underlain by recent deposits of alluvium (Qal). These deposits consist of clay, silt, sand, and gravel with an estimated thickness of less than 10 feet. The silt and clay are calcareous and dark gray to dark brown. The sand is mostly quartz and the gravel is siliceous, mostly chert, quartzite, limestone, and petrified wood.

The subject site is not located within the Balcones Fault Zone and available geologic reports indicate the nearest mapped faults are located over 15 miles to the east. In general, the rock strata beneath the site dip to the east-southeast at about 10 to 30 feet per mile (less than 1°).

Table 1 depicts the stratigraphic relationship and approximate thicknesses of the uppermost geologic units found at the subject site.



Geologic Period	Hydrologic Unit	Geologic Unit	Approximate Thickness (feet)	Description
Lower Cretaceous	Confining Unit	Upper Glen Rose Limestone (Kgr[u])	220	Alternating resistant and recessive beds of limestone, dolomite, and marl; limestone aphanitic to fine-grained, hard to soft and marly, light gray to yellowish gray: dolomite, fine- grained, porous, yellowish-brown; marine megafossils include molluscan steinherns, rudistids, oysters, and echinoids; upper part, relatively thinner bedded, more dolomitic, and less fossiliferous than the lower part. Some surface cave development.
Lower Cretaceous	Confining Unit	Lower Glen Rose Limestone (Kgr[l])	160	Alternating resistant and recessive beds of limestone, dolomite, and marl; limestone aphanitic to fine-grained, hard to soft and marly, light gray to yellowish gray: dolomite, fine- grained, porous, yellowish-brown; marine megafossils include molluscan steinherns, rudistids, oysters, and echinoids. Low to moderate cave development.
Lower Cretaceous	Trinity Aquifer	Hensell Sand (Kh)	85	Mostly fine grained, friable to well cemented, argillaceous, calcareous, light brownish gray. No cave development.

TABLE 1 – GEOLOGIC STRATIGRAPHIC COLUMN

2.6 WATER WELLS

A search was made for water wells on and within 0.5 miles of the subject site. A review of the records of the TCEQ and the Texas Water Development Board (TWDB) revealed no water wells at the subject site. However, 2 private water wells (M-1 and M-2) were found at the subject site. No records for these wells were found in TWDB or TCEQ's well database records. Well M-2 is currently used to water livestock (beef cattle) and M-1 will be used for proposed residential development. Both of these wells appeared to be in good condition with properly cased and sealed piping above the surface. No other evidence of water wells was present on the subject site during the field investigation. According to the TWDB, 8 water wells exist within 0.5 miles of the subject site, most of which are completed in the Trinity Aquifer (TWDB, 2015). Appendix A, Figure 2, shows the TWDB water well locations.

The results of this survey do not preclude the existence of an abandoned well. Abandoned wells must be capped or properly abandoned according to the Administrative Rules of the Texas Department of Licensing and Regulation, 16 Texas Administrative Code (TAC), Chapter 76, effective 3 January 1999. A plugging report must be submitted (by a licensed water well driller) to the Texas Department of Licensing and Regulation, Water Well Driller's Program, Austin, Texas. If a well is intended for use, it must comply with 16 TAC §76.

2.7 GEOLOGIC AND MANMADE FEATURES

A field survey of the subject site was conducted by a licensed Horizon geologist on 26 and 30 March and 1 and 2 April 2015. No natural geologic features were identified within the immediate project area. A total of 2 manmade features (M-1 and M-2) were found at the subject



site and were identified as private water wells (previously described). A map detailing site geology is provided in Appendix B.

3.0 CONCLUSIONS AND RECOMMENDATIONS

No natural geologic features were identified at the subject site that would require protection or mitigation pursuant to TCEQ rules for protection of the Edwards Aquifer (30 TAC 213).

The site generally appears well-suited to development prospectuses. It should be noted that soil and drainage erosion would increase with ground disturbance. Native grasses and the cobbly content of the soil aid to prevent erosion. Soil and sedimentation fencing should be placed in all appropriate areas prior to any site construction activities.

Because the subject site is located over the Edwards Aquifer Contributing Zone, it is possible that subsurface voids underlie the site. If any subsurface voids are encountered during proposed development, construction should halt immediately so that a geologist may assess potential for the void(s) to provide meaningful contribution to the Edwards Aquifer.



4.0 **REFERENCES**

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APPENDIX A

PROJECT FIGURES






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Environmental Services, Inc.



Environmental Services, Inc.



Horizon. Environmental Services, Inc. JAMES P KILLIAN GEOLOGY No. 10281 UCENSED DUAL X GEOS

STRATIGRAPHIC COLUMN CALITERRA DEVELOPMENT PHASE II DRIPPING SPRINGS, HAYS COUNTY, TEXAS



APPENDIX B

SITE GEOLOGIC MAP

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MAP SOURCE: UT-BEG,1981 ; USDA, 2014.

Environmental Services, Inc.



APPENDIX B

SITE GEOLOGIC MAP CALITERRA DEVELOPMENT PHASE II DRIPPING SPRINGS, HAYS COUNTY, TEXAS



APPENDIX C

SITE GEOLOGIC ASSESSMENT TABLE

GEOLOGIC ASSESSMENT TABLE				PROJECT NAME: Caliterra Development				Phase 2, Dripping Springs, Hays Co Tx												
	LOCATIO	DN				FE	ATU	RE C	HARAC	TEF	ristic	S			EVAL	LUAT	'ION	PH)	/SICA	L SETTING
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9	1	10	1	1	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NSIONS (FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENS	ITIVITY	CATCHME (ACF	ENT AREA RES)	TOPOGRAPHY
						х	Y	Z		10						<40	<u>>40</u>	<1.6	<u>>1.6</u>	
M-1	30.1762	-98.10621	MB	30	Kgr	0.3	0.3							Low - 5	35	Х		Х		Hilltop
M-2	30.1733	-98.10175	MB	30	Kgr	0.3	0.3							Low - 5	35	Х		Х		Hillside
* DATUM	:																			
2A TYPE	-	TYPE		2E	3 POINTS						. 8A	INFILLIN	١G							
С	Cave				30		N	None	, exposed	bed	rock									
SC	Solution cavity				20		С	Coars	se - cobble	es, bi	reakdow	n, sand,	gravel							
SF	Solution-enlarg	ed fracture(s)			20	O Loose or soft mud or soil, organics, leaves, sticks, dark colors														
F	Fault				20	F Fines, compacted clay-rich sediment, soil profile, gray or red colors														
0	Other natural b	edrock features			5	V Vegetation. Give details in narrative description														
MB	Manmade feat	ure in bedrock			30		FS	Flows	stone, cen	nents	, cave d	eposits								
SW	Swallow hole				30		Х	Other	materials	5										
SH	SINKNOIE				20					40.7					1					
7	Town-Karst Close	eu uepressión			5			н⊔	illton L	ו∠ו ∼ווונ	ido r	Jraina	ao E	loodoloir	l Stri		hod			
Z	∠one, clustered	d or aligned feat	ures		30	l		и, г	mop, r	ms	nue, L	Jana	уе, г	looupiali	i, Sife	saiii	bed			

JAMES P. KILLIAN GEOLOGY No. 10281 CENSED

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.

My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213. Date 20 April 2015

Janua P. Iulta

Sheet <u>1</u> of <u>1</u>

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



APPENDIX D

SITE PHOTOGRAPHS



PHOTO 1 View of manmade feature M-1 (water well), facing north



PHOTO 2 View of manmade feature M-2 (livestock water well), facing north



V. TEMPORARY STORMWATER SECTION (TCEQ-0602)

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Keith Gallagher

Date: <u>9/20/2023</u>

Signature of Customer/Agent:

Regulated Entity Name: Caliterra Ph. 7, Sec. 7, Block F, Lot 9 Replat

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: <u>Diesel</u>

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: <u>Onion Creek</u>

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.	\boxtimes	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

17. Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices. 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.

TEMPORARY STORMWATER SECTION ATTACHMENT "A"

Below is the general procedure to follow in the event of a spill or loss of product resulting in an impact or potential impact to soil, surface water, groundwater or sanitary sewer system.

Notifications:

- 911 (if immediate danger to life or health)
- General Contractor Site Superintendent.
- Environmental Emergency Response Contractor (if necessary).
- For spills that exceed the reportable quantity established per federal and state regulations, also contact the Texas Commission on Environmental Quality (TCEQ) at 800-832-8224 and the National Response Center at 800-424-8802. Reportable quantities are provided in a table behind this attachment.

Cleanup:

- Impacted soil or used absorbent material shall be picked up and stored in a waterproof, leak proof manner such as on plastic sheeting and covered with plastic sheeting, a drum or roll-off container with a lid or cover that can be secured, or a 5-gallon bucket with a secure lid.
- The Site Superintendent or Emergency Response Coordinator will work with TCEQ to determine the appropriate sampling and disposal protocols for handling impacted soils, absorbent materials, or water.
- Provide proof of sampling and disposal such as laboratory analytical reports and waste manifests to TCEQ.

TEMPORARY STORMWATER SECTION ATTACHMENT "A" (CONTINUED)

Follow-up:

- Within 48 hours send a written report to TCEQ describing the cause of the release, the total quantity of material discharged, description of corrective action taken or still in progress to be completed, notifications made, and plans for preventing recurrence.
- Complete any follow-up reports required by the TCEQ or National Response Center within the allowable time frames.
- Submit a copy of documentation of disposal to TCEQ and US EPA <u>at the time of disposal.</u> Also submit a copy of the final uniform hazardous waste manifest "designated facility to generator copy" by the time of environmental closeout.

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Kind of spill	Where discharged	Reportable quantity	Rule, statute, or responsible agency
Hazardous substance	onto land	"Final RQ" in Table 302.4 in 40 CFR 302.4 (see attached)	<u>30 TAC 327</u>
	into water	"Final RQ" or 100 lbs, whichever is less	<u>30 TAC 327</u>
Any Oil	coastal waters	as required by the Texas General Land Office	<u>Texas General Land Office</u>
Crude Oil, Oil that is neither a petroleum product nor used oil	onto land	210 gallons (five barrels)	<u>30 TAC 327</u>
	Directly into water	enough to create a sheen	<u>30 TAC 327</u>
Petroleum Product, used oil	onto land from an exempt PST facility	210 gallons (five barrels)	<u>30 TAC 327</u>
	onto land, or onto land from a non-exempt PST facility	25 gallons	<u>30 TAC 327</u>
	directly into water	enough to create a sheen	<u>30 TAC 327</u>
Industrial solid waste or other substances	into water	100 lbs	<u>30 TAC 327</u>
From petroleum storage tanks, underground or aboveground	into water	enough to create a sheen on water	<u>ه</u> ا <u>30 TAC 334.75-81</u>
From petroleum storage tanks, underground or aboveground	onto land	²⁴ 25 gallons or equal to the RQ under 40 CFR 302	^{실,} <u>30 TAC 327</u>
Other substances that may be useful or valuable and are not ordinarily considered to be waste, but will cause pollution if discharged into water in the state	into water	100 lbs	^ظ ار <u>30 TAC 327</u>

Temporary Stormwater Section - Attachment "A" Continued

TEMPORARY STORMWATER SECTION ATTACHMENT "B"

Potential sources of contamination include the leaking of fluids from construction equipment, trash generated by workers and material, sediment transport onto public roadways, from construction equipment, and the use of asphaltic products on the roadways.

TEMPORARY STORMWATER SECTION ATTACHMENT "C"

The major activities of this project that will result in large areas of soil disturbance are: <u>Sequence of Construction Disturbance</u>

1. General contractor to install and maintain erosion controls and tree protection per approved plans. (Disturbance 0 AC.)

2. Hold Pre-Construction conference. (Disturbance 0 AC.)

3. Rough grade streets in. Once streets are rough cut, the geotechnical engineer is to field verify pavement design is appropriate, and modify recommendations accordingly. **(Disturbance 3.09 AC.)**

4. Install all utilities to be located under the proposed pavement. (Disturbance 0.58 AC.)

5. Deliver storm sewer cut sheets to the contractor. (Disturbance 0 AC.)

6. Begin installation of storm sewer lines. Upon Completion, restore as much disturbed area as much as possible. Particularly channels and large open areas. **(Disturbance 1.60 AC.)**

7. Deliver final grade cut sheets to the contractor. (Disturbance 0 AC.)

8. Regrade streets to subgrade. (Disturbance 1.03 AC.)

9. Ensure that all underground utility crossings are completed. Lay first course base material on all streets. (Disturbance 1.03 AC.)

10. Lay final base course on streets. (Disturbance AC.)

11. Lay asphalt. (Disturbance 1.03 AC.)

12. Complete all underground installations within the ROW. (Disturbance 0.60 AC.)

13. Complete permanent erosion controls and restoration of site vegetation. (Disturbance 0.30 AC.)

14. Final inspection of the project. (Disturbance 0 AC.)

15. Remove and dispose of temporary erosion controls. (Disturbance 0.48 AC.)

TEMPORARY STORMWATER SECTION ATTACHMENT "D"

All temporary BMP's will be installed prior to the beginning of construction and remain in place until revegetation has been completed. These temporary measures will include silt fences, inlet dykes, and stabilized construction entrances. These erosion control devices will prevent the transport of sediment generated from this site. The erosion control devices proposed with this project allow for the passing of water while retaining any sediment or trash. This will allow for the flow to maintain its natural course to naturally occurring sensitive features.

Sequence of Construction Disturbance

1. General contractor to install and maintain erosion controls and tree protection per approved plans. Ensure that concrete wash out area is installed in accordance with the approved plans. **(Duration-7 days)**

2. Hold Pre-Construction conference. (Duration-2 hour)

3. Verify all required or necessary ponds have been constructed. Either the permanent outlet structure or a temporary outlet must be constructed prior to development of any embankment or excavation that leads to ponding conditions. The outlet system must consist of low-level outlet and an emergency overflow. The outlet system shall be protected from erosion and shall be maintained throughout the course of construction until final restoration is achieved. (Duration-1 week)

4. Rough pavement areas. No Development of embankment will be permitted at this time. Once pavement areas are rough cut, the geotechnical engineer is to field verify pavement design is appropriate, and modify recommendations accordingly. **(Duration- 2 weeks)**

5. Install all utilities to be located under the proposed pavement. (Duration- 2 weeks)

6. Deliver storm sewer cut sheets to the contractor. (Duration- 1 week)

7. Begin installation of storm sewer lines. Upon Completion, restore as much disturbed area as much as possible. Particularly channels and large open areas. (Duration- 1 weeks)

8. Deliver final grade cut sheets to the contractor. (Duration-1 week)

9. Regrade pavement areas to subgrade. (Duration-1 week)

10. Ensure that all underground utility crossings are completed. Lay first course base material on all pavement areas. (Duration- 2 week)

TEMPORARY STORMWATER SECTION ATTACHMENT "D" (CONT.)

- 11. Lay final base course on all streets. (Duration- 2 weeks)
- 12. Lay asphalt. (Duration- 3 weeks)
- 13. Complete all underground installations within the R.O.W. (Duration- 2 weeks)
- 14. Complete permanent erosion control and restoration of site vegetation. (Duration- 3 weeks)
- 15. Final inspection of the project. (Duration- 3 days)
- 16. Remove and dispose of temporary erosion controls. (Duration-1 weeks)

TEMPORARY STORMWATER SECTION ATTACHMENT "F"

Practices of diverting runoff around exposed soils will consist of silt fence, which will be utilized to catch any pollutants from leaving the site. The only runoff aimed at exposed soils will be from the site itself. Filter dykes will prevent the sediment from entering the constructed area inlets.

TEMPORARY STORMWATER SECTION ATTACHMENT "I"

The temporary BMP's will be inspected on a weekly basis for their compliance with TCEQ and City of Dripping Springs Criteria. The contractor will be responsible for maintenance of these items. If cited by the City of Dripping Springs, the contractor will have 24 hours to bring the delinquent items up to standard. The contractor will keep a record of these items on site in the construction trailer. A Stormwater Pollution Prevention Plan will be filed prior to commencement of construction. Below are maintenance guidelines for proposed temporary BMPs.

Stabilized Construction Entrance Inspection and Maintenance Guidelines:

(1) The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.

(2) All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.

(3) When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-ofway.

(4) When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.

(5) All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Silt Fence Inspection and Maintenance Guidelines:

(1) Inspect all fencing weekly, and after any rainfall.

(2) Remove sediment when buildup reaches 6 inches.

(3) Replace any torn fabric or install a second line of fencing parallel to the torn section.

(4) Replace or repair any sections crushed or collapsed 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.

(5) When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

Inlet Protection Inspection and Maintenance Guidelines:

(1) Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.

(2) Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.

(3) Check placement of device to prevent gaps between device and curb.

(4) Inspect filter fabric and patch or replace if torn or missing.

(5) Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

Temporary Onsite Washout area Inspection and Maintenance Guidelines:

Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste. When temporary concrete washout facilities become full or are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of when no longer needed. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

TEMPORARY STORMWATER SECTION ATTACHMENT "J"

The project's limits of construction are primarily confined to the existing right-of-ways, easements, and project site. The project will begin with rough cutting of site. The utilities will be installed. The backfill behind the curbs and paving will be completed within 120 days. The backfill behind the curbs and embankments will be revegetated with hydromulch mix to be determined by the City of Dripping Springs to stabilize the soil. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is 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 site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

VI. AGENT AUTHORIZATION FORM

	Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999
1_ Greg	org C. Rich
MANAS	MAHONNEY - IN- FAct,
of <u>CF(</u>	251K CALTTERA, LLC, Corporation/Partnership/Entity Name
have authorized	Keith Gallagher, PE Print Name of Agent/Engineer
of	Carlson, Brigance, & Doering, inc. 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.

TCEQ-0599 (Rev.04/01/2010)

SIGNATURE PAGE:

Applicant's Signature Attervierin

-2023

THE STATE OF Texas § County of Dallas §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Gregory L. Rich</u>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 3 day of October, 23.

NOTARY PUBLIC Megan Tern MEGAN E TERRY Typed or Printed Name of Notary MY COMMISSION EXPIRES 06/17/2026 NOTARY ID: 13382020-3 MY COMMISSION EXPIRES:

VII. Application Fee Form (TCEQ-0574)

Application Fee Form

Texas Commission on Environmen Name of Proposed Regulated Entity Regulated Entity Location: <u>Dripping</u> Name of Customer: CF CSLK Caliter	<u>7, Block F, Lot 9 Repla</u> unty)	<u>t</u>				
Contact Person: Gregory L Rich	Phon	ne: 972-960-2777				
Customer Reference Number (if iss	ued).CN 606010296	<u>572 500 2777</u>				
Regulated Entity Reference Numbe	r (if issued):RN					
Austin Regional Office (3373)	. (
		Πwi	illiamson			
San Antonio Regional Office (3362)					
Bexar	Medina	Uv	alde			
Comal	Kinney					
Application fees must be paid by ch	eck, certified check, o	or money order, payab	le to the Texas			
Commission on Environmental Qu	ality. Your canceled o	check will serve as your	r receipt. This			
form must be submitted with your fee payment. This payment is being submitted to:						
🔀 Austin Regional Office	🗌 S	an Antonio Regional O	ffice			
Mailed to: TCEQ - Cashier	Overnight Delivery to: TCEQ - Cashier					
Revenues Section	1	2100 Park 35 Circle				
Mail Code 214	В	uilding A, 3rd Floor				
P.O. Box 13088	Α	ustin, TX 78753				
Austin, TX 78711-3088	(!	512)239-0357				
Site Location (Check All That Apply	<i>י</i>):					
Recharge Zone	🔀 Contributing Zone	Transi	tion Zone			
Type of Plan		Size	Fee Due			
Water Pollution Abatement Plan, C	ontributing Zone					
Plan: One Single Family Residential	Dwelling	Acres	\$			
Water Pollution Abatement Plan, C						
Plan: Multiple Single Family Resider	12.03 Acres	\$ 4,000				
Water Pollution Abatement Plan, C						
Plan: Non-residential	Acres	\$				
Sewage Collection System	L.F.	\$				
Lift Stations without sewer lines		Acres	\$			
Underground or Aboveground Stor	age Tank Facility	Tanks	\$			
Piping System(s)(only)		Each	\$			
Exception		Each	\$			
Extension of Time		Each	Ş			

Signature:

Date: <u>9/20/2023</u>

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications Contributing Zone Plans and Modifications

	Project Area in	
Project	Acres	Fee
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,	< 1	\$3,000
multi-family residential, schools, and other sites	1 < 5	\$4,000
where regulated activities will occur)	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150

VIII. Core Data Form (TCEQ-10400)



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)									
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)									
Renewal (Core Data Form should be submitted with the renewal form)						Other			
2. Customer	r Reference Number <i>(if is</i> s	sued)	Follow this	link to sea	arch 3.	3. Regulated Entity Reference Number (if issued)			
CN 6060)10296		for CN or R Central	N number Registry*'	r <u>s in</u>	RN			
SECTION II: Customer Information									
4. General C	ustomer Information	Date for C	Date for Customer Information Updates (mm/dd/yyyy)						
New Cus	tomer		Jpdate to C	ustomer	Informatio	on	Change in	Regulated E	Entity Ownership
Change in	Legal Name (Verifiable wit	h the Texas S	ecretary of S	State or -	Texas Co	mptrolle	er of Public Accounts)		
The Custo	mer Name submitted	here may b	oe update	d auto	matical	ly bas	sed on what is cu	rrent and	active with the
Texas Sec	retary of State (SOS)	or Texas C	omptrolle	er of Pu	ıblic Ac	count	ts (CPA).		
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) <u>If new Customer, enter previous Customer below:</u>									
CF CSLK	CF CSLK Caliterra, LLC								
7. TX SOS/C	PA Filing Number	8. TX State	Tax ID (11 di	gits)		9. Federal Tax ID (9 digits) 10. DUNS Number (if applicable)			
080187745 3208255			471			87-4251048			
11. Type of C	11. Type of Customer: Corporation] Individ	ual	Partnership: 🗖 General 🗖 Limited			
Government:	City County Federal] State 🗌 Other] Sole Pi	roprietors	hip	Other:		
12. Number	12. Number of Employees			13. Independently Owned and Operated?			ited?		
	⊠ 0-20 21-100 101-250 501 and higher Yes ⊠ No								
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following									
Owner Operator									
12222 Merit Drive, Suite 1020									
15. Mailing Address:									
	City Dallas		State	TX	ZI	P 7.	5251	ZIP + 4	
16. Country Mailing Information (if outside USA)									
grich@siepiela.com									
18. Telephone Number 19. Extension or Code				ode		20. Fax Numbe	r (if applical	ble)	
(512) 549-7777							()	-	

SECTION III: Regulated Entity Information

 21. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)

 Image: Selected Delow The Selecte

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

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

Caliterra Phase 2, Section 7, Block F, Lot 9 Replat

23. Street Address of the Regulated Entity:	Premier Park Loop/ Peakside Circle									
(No PO Boxes)	City	Dripping Springs	State	TX	ZIP	78620	ZIP + 4			
24. County	Hays							•		
	1	Enter Physical I	ocation Descrip	tion if no s	treet addres	s is provided.		r.		
25. Description to Physical Location:	Site is located at the intersection of Peakside Circle and Premier Park Loop.					p.				
26. Nearest City			State Nearest ZIP C							
Dripping Springs						TX	78	3620		
27. Latitude (N) In Decir	nal:	30.173218		28.	28. Longitude (W) In Decimal:			-98.100097		
Degrees	Minutes		Seconds	Degr	ees	Minutes		Seconds		
29. Primary SIC Code (4 digits) 30. Secondary SIC			Code (4 digits)	de (4 digits) 31. Primary NAICS Code (5 or 6 digits) 32. Secondary NAICS (5 or 6 digits)						
1531			236117							
33. What is the Primary	Business	of this entity?	(Do not repeat the SI	C or NAICS de	scription.)					
Singal Family Subo	livision									
CF CSLK Caliterra, LLC										
Address:	12222 Merit Drive, Suite 1020									
	City	Dallas	State	тх	ZIP	75251	ZIP + 4			
35. E-Mail Address: grich@siepiela.com										
36. Telepho	37. Extensi	on or Code	38. Fax Number (if applicable)							
(512) 5	549-7777				() -					
TCEQ Programs and ID) Numbers	Check all Program	s and write in the p	ermits/registr	ation numbers	s that will be affecte	d by the updat	es submitted on this		
rm. See the Core Data Form instructions for additional guid				uifor		iona Inventory Air		ial Hazardaya Waa		
				ullel						
Municipal Solid Waste	New Source Review Air				Petrole	Petroleum Storage Tank				
Sludge Storm Water		Title V Air		Tires	Tires		Used Oil			
						Water Dights				
Voluntary Classin	Waste Water		Wastewater Agriculture				I I I I I I I I I I I I I I I I I I I	Other:		

40. Name: Keith Gallagher		41. Title:	P.E., Project Manager
42. Telephone Number 43. Ext./Code	44. Fax Number	45. E-Mail	Address
(512) 280-5160	() -	kgallagh	er@cbdeng.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:	Carlson, Brigance and Doering, Inc.	Job Title:	P.E., Project Manager			
Name (In Print):	Keith Gallagher, P.E.			Phone:	(512) 280- 5160	

	~~~ 1		
Signature:	setted y	Date:	9/20/2023
	0		