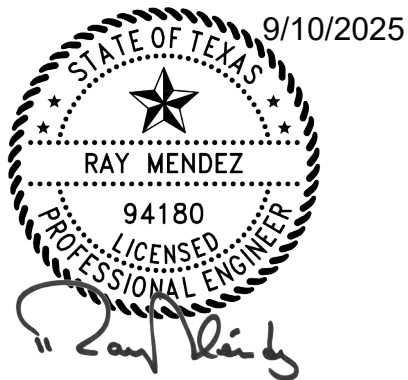


MODIFICATION OF A PREVIOUSLY APPROVED PLAN WATER POLLUTION ABATEMENT PLAN

GOLD CANYON PARK

REGULATED ENTITY NO. RN10770305



PREPARED FOR

City of San Antonio

September 10, 2025

MENDEZ ENGINEERING

September 10, 2025

Texas Commission on Environment Quality
San Antonio Region
14250 Judson Road
San Antonio, Texas 78233-4880

Re: Gold Canyon Park
Modification of a Previously Approved Plan
Water Pollution Abatement Plan

Enclosed are one (1) original and five (5) copies of the Gold Canyon Park, Modification of a Previously Approved Plan, Water Pollution Abatement Plan Application. This Application has been prepared to be consistent with the Texas Commission on Environmental Quality (20 TAC 213) and its current policies for development over the Edwards Aquifer Recharge Zone.

This Modification of a Previously Approved Plan, Water Pollution Abatement Plan Application contains a total area of 57.17 acres of storm water accumulation area identified as the project limits. Please review the enclosed report & construction plans for the items it is intended to address, and if acceptable, provide written approval of said plan so that construction may begin at the earliest opportunity. Appropriate review fees in the amount of \$6,500.00 and associated fee application are included herein.

If you should have any questions regarding the contained information, please feel free to contact me at 210.802.0808.

Respectfully,



Ray Mendez, PE, RGDP, LGPP
President | Mendez Engineering

Modification of a Previously Approved Plan Checklist

- ✓ **Edwards Aquifer Application Cover Page (TCEQ-20705)** SECTION A ✓
- ✓ **General Information Form (TCEQ-0587)** SECTION B ✓
 - Attachment A - Road Map ✓
 - Attachment B - USGS / Edwards Recharge Zone Map ✓
 - Attachment C - Project Description ✓
- ✓ **Geologic Assessment Form (TCEQ-0585)** SECTION C ✓
 - Attachment A - Geologic Assessment Table (TCEQ-0585-Table) ✓
 - Attachment B - Stratigraphic Column ✓
 - Attachment C - Site Geology ✓
 - Attachment D - Site Geologic Map(s) ✓
- ✓ **Modification of a Previously Approved Plan (TCEQ-0590)** SECTION D
 - Attachment A - Original Approval Letter and Approved Modification Letters ✓
 - Attachment B - Narrative of Proposed Modification ✓
 - Attachment C - Current Site Plan of the Approved Project To be submitted when obtained from TCEQ files
- ✓ **Application Form (include any applicable to the proposed modification):** SECTION E
 - Aboveground Storage Tank Facility Plan (TCEQ-0575) N/A
 - Organized Sewage Collection System Application (TCEQ-0582) N/A
 - Underground Storage Tank Facility Plan (TCEQ-0583) N/A
 - Water Pollution Abatement Plan Application (TCEQ-0584) ✓
 - Lift Station / Force Main System Application (TCEQ-0624) N/A
- ✓ **Temporary Stormwater Section (TCEQ-0602)** SECTION F
 - Attachment A - Spill Response Actions ✓
 - Attachment B - Potential Sources of Contamination ✓
 - Attachment C - Sequence of Major Activities ✓
 - Attachment D - Temporary Best Management Practices and Measures ✓
 - Attachment E - Request to Temporarily Seal a Feature (if requested) N/A
 - Attachment F - Structural Practices ✓
 - Attachment G - Drainage Area Map ✓
 - Attachment H - Temporary Sediment Pond(s) Plans and Calculations N/A
 - Attachment I - Inspection and Maintenance for BMPs ✓
 - Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices ✓
- ✓ **Permanent Stormwater Section (TCEQ-0600), if necessary** SECTION G
 - Attachment A - 20% or Less Impervious Cover Declaration (if requested for multi-family, school, or small business site) N/A
 - Attachment B - BMPs for Upgradient Stormwater ✓

Attachment C - BMPs for On-site Stormwater ✓

Attachment D - BMPs for Surface Streams N/A

Attachment E - Request to Seal Features, if sealing a feature N/A

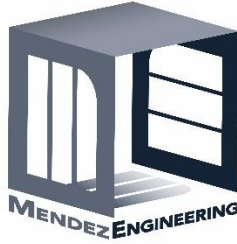
Attachment F - Construction Plans ✓

Attachment G - Inspection, Maintenance, Repair and Retrofit Plan ✓

Attachment H - Pilot-Scale Field Testing Plan (if requested) N/A

Attachment I - Measures for Minimizing Surface Stream Contamination N/A

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



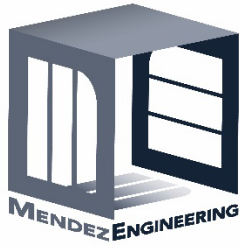
GOLD CANYON PARK

REGULATED ENTITY NO. RN10770305

MODIFICATION OF A PREVIOUSLY APPROVED PLAN WATER POLLUTION ABATEMENT PLAN

PREPARED FOR:

CITY OF SAN ANTONIO



SECTION A

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 [30 TAC 213](#).

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Gold Canyon Park					2. Regulated Entity No.: RN107703050				
3. Customer Name: City of San Antonio					4. Customer No.: CN600130652				
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. Site (acres):		57.17	
9. Application Fee:	\$6,500.00		10. Permanent BMP(s):				YES		
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):				N/A		

13. County:	Bexar	14. Watershed:	Salado Creek
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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.)	—	—	—
Region (1 req.)	—	—	—
County(ies)	—	—	—
Groundwater Conservation District(s)	☐ Edwards Aquifer Authority ☐ Barton Springs/ Edwards Aquifer ☐ Hays Trinity ☐ Plum Creek	☐ Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	☐ Austin ☐ Buda ☐ Dripping Springs ☐ Kyle ☐ Mountain City ☐ San Marcos ☐ Wimberley ☐ Woodcreek	☐ Austin ☐ Bee Cave ☐ Pflugerville ☐ Rollingwood ☐ Round Rock ☐ Sunset Valley ☐ West Lake Hills	☐ Austin ☐ Cedar Park ☐ Florence ☐ Georgetown ☐ Jerrell ☐ Leander ☐ Liberty Hill ☐ Pflugerville ☐ 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	☐ Bulverde ☐ Fair Oaks Ranch ☐ Garden Ridge ☐ New Braunfels ☐ Schertz	NA	☐ San Antonio ETJ (SAWS)	NA

	☒ San Antonio (SAWS) ☐ Shavano Park				
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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.

Ray Méndez, PE, RGDP, LGPP

Print Name of Customer/Authorized Agent

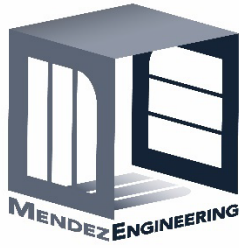
Signature of Customer/Authorized Agent

9/10/2025

Date

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

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



GOLD CANYON PARK

PROPERTY DEED

\$28.00/KBCourtesy 10/10/10

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

DEED WITHOUT WARRANTY

**FILED BY
ALAMO TITLE**

Date: October 7, 2010

Grantor: Kaufman and Broad of Texas, Ltd., a Texas limited partnership, as successor-in-interest to Rayco, Ltd., a Texas limited partnership

Grantor's Mailing Address: 4800 Fredericksburg Road
(including county) San Antonio, Bexar County, Texas 78229

Grantee: City of San Antonio, a Texas municipal corporation

Grantee's Mailing Address: P.O. Box 839966, Suite 200
(including county) San Antonio, Bexar County, Texas 78283

Consideration:

Ten Dollars and No/100 (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged.

Property (including any improvements):

Being a 7.117 acre tract more or less, out of a 299.411 acre tract described in a Deed recorded in Volume 5527, Page 929 Real Property Records of Bexar County, Texas, said tract being further described as "Exhibit A" attached hereto and made a part hereof.

Reservations from and Exceptions to Conveyance and Warranty:

This conveyance is made and accepted subject to any and all validly existing encumbrances, conditions and restrictions, relating to the hereinabove described property as now reflected by the records of the County Clerk of Bexar County, Texas or any other matters that would be revealed by a physical inspection of the Property.

Grantor, for the consideration and subject to the Reservations from and Exceptions to Conveyance and Warranty, GRANTS, SELLS, and CONVEYS to Grantee the property, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and hold it to Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever, without

express or implied warranty. All warranties that might arise by common law as well as the warranties in section 5.023 of the Texas Property Code (or its successor) are excluded.

THE PROPERTY IS CONVEYED "AS IS" AND "WITH ALL FAULTS", WITHOUT ANY PROMISE, WARRANTY OR REPRESENTATION EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY AS TO TITLE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ENVIRONMENTAL CONDITION, ZONING, TAXES, COMPLIANCE OR LACK OF COMPLIANCE WITH APPLICABLE LAWS AND ORDINANCES, OR ACCURACY OR COMPLETENESS OF INFORMATION PROVIDED BY GRANTOR OR BY OTHERS TO GRANTEE RELATING TO THE PROPERTY.

GRANTOR

KAUFMAN AND BROAD OF TEXAS, LTD.,
a Texas limited partnership, successor-in-interest
to Rayco, Ltd, a Texas limited partnership

By: KBSA, Inc., a Texas corporation,
its general partner

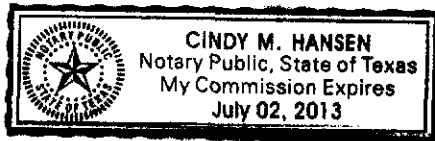
By: BTD
Name: Brett Drefz
Title: EVP

[Acknowledgements on following page]

STATE OF TEXAS §

COUNTY OF Bexar §

This instrument was acknowledged before me on the 7th day of October, 2010 by Paul Dute, EVR of KBSA, Inc., a Texas corporation, the general partner of Kaufman and Broad of Texas, Ltd., a Texas limited partnership, successor-in-interest to Rayco, Ltd., a Texas limited partnership, on their behalf.



Cindy M. Hansen
Notary Public, State of Texas

RETURN TO:

City of San Antonio
P.O. Box 839966, Suite 200
San Antonio, TX 78283

EXHIBIT "A"

FIELD NOTES FOR A 7.117 ACRE TRACT

Being a 7.117 Acre parcel (310,030 square foot) out of a 299.411 acre tract described in a Deed recorded in Volume 5527, page 932 of the Real Property Records of Bexar County, Texas, said 7.117 acre tract being more particularly described by meets and bounds as follows:

BEGINNING: At a ½" iron pin found at the northerly right-of way- line of Corporate Woods (a 86-foot right-a-way road), said pin also being the south east corner of lot 20, the south corner of lot 19, block 15, Redland Woods Subdivision Unit 6, and said pin being the south west corner and the POINT OF BEGINNING of the herein described 7.117 acre tract;

THENCE: N22°35'41"E departing from the north right-of way- line of Corporate Woods for a distance of 260.70 feet to an iron pin found for the northwest corner of this tract;

THENCE: along the northerly boundary line of this tract as follows;

S00°27'23"W a distance of 147.59' to a found ½" iron pin at an angle point;

N60°37'15"E a distance of 96.00' to a found ½" iron pin at an angle point;

S63°09'51"E a distance of 507.61' to a found ½" iron pin at an angle point;

S61°00'09"E a distance of 358.50' to a found ½" iron pin at an angle point;

S48°04'51"E a distance of 388.42' to a found ½" iron pin at the most westerly corner of this tract;

THENCE: S11°55'04"W along the easterly boundary line of this tract a distance of 58.36' to a found ½" iron pin at the southeasterly corner of this tract

THENCE N74°02'44"W along the southerly boundary line of this tract and along the northerly line of Lots 13-21, Block 13 of Redland Woods Subdivision Unit 6 a distance of 888.94' to a found ½" iron pin at a point on the northerly right-of-way line of Corporate Woods Road;

THENCE 506.69' along the arc of a curve to the right, said curve having a radius of 759.20', a chord bearing of N47°57'03"W, a chord length of 500.17', and an angle of 38°27'56" to the POINT OF BEGINNING and containing 7.117 acres of land.

May 22, 2009
Job No. 09022

PRELIMINARY

Doc# 20100187787
Pages 5
10/18/2010 13:51:43 PM
e-Filed & e-Recorded in the
Official Public Records of
BEXAR COUNTY
GERARD RICKHOFF COUNTY CLERK

Fees 28.00

STATE OF TEXAS
COUNTY OF BEXAR
This is to Certify that this document
was e-FILED and e-RECORDED in the Official
Public Records of Bexar County, Texas
on this date and time stamped thereon.
10/18/2010 13:51:43 PM
COUNTY CLERK, BEXAR COUNTY TEXAS



Gerard Rickhoff

ATC-DOWNTOWN/E. PECAN
05006808

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

GIFT SPECIAL WARRANTY DEED

Date: *November 30, 2007*

Grantor: Gold Canyon Homeowner's Association

Grantor's Mailing Address: 8318 Jones Maltsberger #121
San Antonio, TX 78216

Grantee: City of San Antonio

Grantee's Mailing Address: P.O. Box 839966
San Antonio, Bexar County, Texas 78283-3966

Consideration: Grantor is donating the property to further the Parks and Recreation goals of the Grantee.

Property (including any improvements):

Tract 1

Being a 15.660 acre tract of land out of the remaining portions of a 299.411 acre tract and a save and accept 54.443 acre tract as described in Volume 5527, Page 931 of the Real Property Records of Bexar County, Texas being out of the J. Escamilla Survey No. 356-1/2, Abstract 218, County Block 4954, J.C. Evans Survey No. 152, Abstract 230, County Block 4951, Bexar County, Texas; said 15.660 acre tract more particularly described on Exhibit A attached hereto.

Tract 2

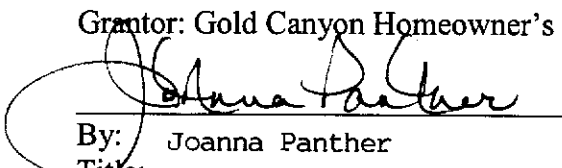
Being a 49.400 acre tract of land out of the remaining portions of a 299.411 acre tract and a save and accept 54.443 acre tract as described in Volume 5527, Page 931 of the Real Property Records of Bexar County, Texas being out of the J. Escamilla Survey No. 356-1/2, Abstract 218, County Block 4954, J.C. Evans Survey No. 152, Abstract 230, County Block 4951, Bexar County, Texas; said 49.400 acre tract more particularly described on Exhibit B, attached hereto.

Reservations from and Exceptions to Conveyance and Warranty: This conveyance is made subject to any easements, conditions and/or restrictions of record affecting the title to the hereinbefore described property.

Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, sells, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and

forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof when the claim is by, through, or under Grantor but not otherwise, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty

Grantor: Gold Canyon Homeowner's Association

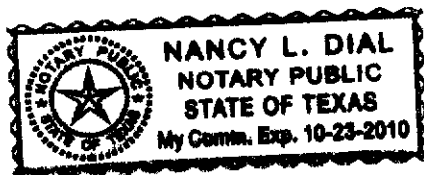

By: Joanna Panther
Title: Asset Property Management, Inc.
as Managing Agent for the
Gold Canyon Homeowners Association, Inc.

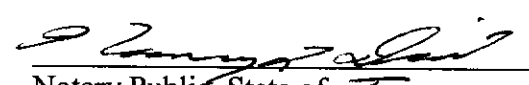
STATE OF Texas

§
§
§

COUNTY OF Bexar

This instrument was acknowledged before me on the 30 day of November, 2007 by Joanna Panther, Managing Agent on behalf of Gold Canyon Homeowner's Association, a Texas Corporation.




Notary Public, State of Texas

NANCY L DIAL
Notary's Printed Name

My Commission Expires: 10-23-2010

AFTER RECORDING RETURN TO:

City of San Antonio attention David Clear
P.O. Box 839966
San Antonio, Texas 78283

Exhibit "A"

Metes and Bounds Description for a 15.660 Ac. Tract

Being a 15.660 acre tract of land out of the remaining portions of a 299.411 acre tract and a save and accept 54.443 acre tract as described in Volume 5527, Page 931 of the Real Property Records of Bexar County, Texas being out of the J. Escamilla Survey No. 356-1/2, Abstract 218, County Block 4954, J. C. Evans Survey No. 152, Abstract 230, County Block 4951, Bexar County, Texas; said 15.660 acre tract of land being more particularly described as follows:

BEGINNING at a found 1/2" iron pin located on the north right of way line of Gold Canyon Road at the south common corner between this tract and Lot 3, Block 1, Redland Woods Subdivision Unit 2 as recorded in Volume 9529, Page 205 of the Deed and Plat Records of Bexar County, Texas; said iron pin being approximately 190.70 feet along a curve to the left to the east end of a curve located at the intersection of the north right of way line of said Gold Canyon Road and the east right of way line of Redriver Pass;

THENCE departing the north right of way line of said Gold Canyon Road along the common line between this tract and the east line of the said Redland Woods Subdivision Unit 2 as follows;

N 27°41'32" E, 77.94 feet to a 1/2" iron pin set with yellow cap labeled "PCI" hereafter referred to as "IPWYC" for a point of deflection;

N 05°52'48" E, 519.16 feet to a fence corner post for a point of deflection;

N 14°13'56" W, 554.86 feet to a found 1/2" iron pin for a point of deflection;

N 27°53'21" W, 554.22 feet to a found 1/2" iron pin for a point of deflection;

N 21°32'21" W, 487.30 feet to a found 1/2" iron pin at the common corner between this tract and Lot 32, Block 1 of said Redland Woods Subdivision Unit 2 and Lot 61, Block 17, Encino Park Subdivision Unit 11 as recorded in Volume 9501, Page 69 of the Deed and Plat Records of Bexar County, Texas for the northwest corner of the tract herein described;

THENCE N 80°58'45" E, 428.40 feet along the common line between this tract and said Lot 61 to a found 1/2" iron pin at the common corner between this tract, said Lot 61 and a 16 foot Drainage Right of Way & Gas, Electric, & Cable Television Easement, Redland Woods Subdivision Unit 3 as per Volume 9537, Page 206 of the Deed and Plat Records of Bexar County, Texas; said 1/2" iron pin being the northeast corner of the tract herein described;

THENCE along the common line between this tract and the west line of the said Redland Woods Subdivision as follows:

S 18°57'21" W, 77.83 feet to a found 1/2" iron pin for a point of deflection;

S 11°47'55" E, 220.30 feet to a found 1/2" iron pin for a point of deflection;

S 19°23'53" E, 222.78 feet to a fence corner post for a point of deflection;

S 23°19'40" E, 418.16 feet to a found ½" iron pin for a point of deflection;

S 19°21'44" E, 206.63 feet to a fence corner post for a point of deflection;

S 01°25'13" E, 219.06 feet to a found ½" iron pin for a point of deflection;

S 10°57'40" E, 180.31 feet to a fence corner post for a point of deflection;

S 14°54'52" E, 492.07 feet to a found ½" iron pin for a point of deflection;

S 09°41'22" E, 99.76 feet to a set IPWYC for a point of deflection;

S 21°21'06" E, 134.71 feet to a fence corner post located on the north right of way of said Gold Canyon Road at the common corner between this tract and Lot 1, Block 3 of said Redland Woods Subdivision Unit 3 for the southeast corner of the tract herein described;

THENCE N 83°14'27" W, 311.72 feet along the north right of way line of said Gold Canyon Road to a ½" iron pin set at the beginning of a curve to the left;

THENCE 188.79 feet along said curve to the left having a central angle of 11°28'14" and a radius of 943.00 to the **POINT OF BEGINNING** and containing 15.660 acres of land, more or less.



A handwritten signature in black ink, appearing to read "Camarillo", written over a horizontal line.

Adalberto Camarillo
Registered Professional Land Surveyor
No. 3929
June 01, 2007

Exhibit "B"

Metes and Bounds Description for a 49.400 Ac. Tract

Being a 49.400 acre tract of land out of the remaining portions of a 299.411 acre tract and a save and accept 54.443 acre tract as described in Volume 5527, Page 931 of the Real Property Records of Bexar County, Texas being out of the J. Escamilla Survey No. 356-1/2, Abstract 218, County Block 4954, J. C. Evans Survey No. 152, Abstract 230, County Block 4951, Bexar County, Texas; said 49.400 acre tract of land being more particularly described as follows:

BEGINNING at a found 1/2" iron pin located on the south right of way line of Gold Canyon Road at the north common corner between this tract and Lot 1, Block 6, Redland Woods Subdivision Unit 3 as recorded in Volume 9537, Page 205 of the Deed and Plat Records of Bexar County, Texas; said iron pin being approximately 188.27 feet in an easterly direction to the west end of a curve located at the intersection of the south right of way line of said Gold Canyon Road and the west right of way line of Redriver Trail;

THENCE departing the south right of way line of said Gold Canyon Road along the common line between this tract and the west line of the said Redland Woods Subdivision Unit 3 as follows;

S 10°34'48" W, 208.31 feet to a fence corner post for a point of deflection;

S 48°43'37" W, 246.90 feet to a found 1/2" iron pin for a point of deflection;

S 01°18'52" E, 116.33 feet to a found 1/2" iron pin for a point of deflection;

S 37°42'10" E, 150.63 feet to a fence corner post for a point of deflection;

N 86°32'50" E, 319.99 feet to a 1/2" iron pin set with yellow cap labeled "PCI" hereafter referred to as "IPWYC" for a point of deflection;

S 67°14'59" E, 479.40 feet to a found 1/2" iron pin for a point of deflection;

N 60°45'10" E, 126.05 feet to a set IPWYC for a point of deflection;

S 11°05'46" E, 88.58 feet to a found 1/2" iron pin for a point of deflection;

S 60°11'03" E, 122.67 feet to a found 1/2" iron pin at the common corner between this tract, a Variable Width Drainage Right of Way as per Volume 9537, Page 202 of the Deed and Plat Records of Bexar County, Texas, Lot 76, Block 6, Emerald Forest Subdivision Unit 4A as per Volume 9553, Page 202 of the Deed and Plat Records of Bexar County, Texas and a 102.82 acre tract of land as described in Volume 11154, Page 2242 of the Real Property Records of Bexar County, Texas; said found 1/2" iron pin being an exterior corner of the tract herein described:

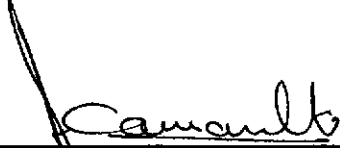
- THENCE** S. 03°00'32" E, 2332.79 feet along the common line between this tract and the said 120.82 acre tract to a found ½" iron pin at the common corner between this tract, the said 120.82 acre tract and Lot 1, Block 1, Corporate Woods Office Park Unit 2 as per Volume 9513, Page 91 of the Deed and Plat Records of Bexar County, Texas for the southeast corner of the tract herein described;
- THENCE** N 75°06'27" W, 468.77 feet along the common line between this tract and said Lot 1 to a set IPWYC at the common corner between this tract and said Lot 1 for the southwest corner of the tract herein described;
- THENCE** along the common line between this tract and said Lot 1, the east line of Redland Woods Subdivision Unit 6 as per Volume 9536, Page 47 and a tract of land being the remaining portion of said 299.411 acre tract as follows:
- N 24°32'20" E, 176.76 feet to a found ½" iron pin for a point of deflection;
- N 20°04'45" W, 510.90 feet to a set IPWYC for a point of deflection;
- N 03°52'58" E, 264.55 feet to a set IPWYC for a point of deflection
- N 13°19'50" E, 471.77 feet to a set IPWYC for a an interior corner of the tract herein described;
- THENCE** along the common line between this tract and the remaining portion of the said 299.411 acre tract as follows:
- N 48°05'48" W, 385.15 feet to a set IPWYC for a point of deflection;
- N 61°01'06" W, 358.50 feet to a set IPWYC for a point of deflection
- N 63°10'48" W, 507.61 feet to a set IPWYC for a point of deflection;
- S 60°36'18" W, 95.81 feet to a set IPWYC for a point of deflection;
- N 00°26'26" E, 147.38 feet to a found ½" iron pin at the common corner between this tract, the remaining portion of the said 120.82 acre tract and Lot 18, Block 15, Redland Woods Subdivision Unit 6 as per Volume 9536, Page 46 of the Deed and Plat Records of Bexar County, Texas for an interior corner of the tract herein described:
- THENCE** along the common line between this tract and the west line of the said Redland Woods Subdivision Unit 6 and a 3.293 acre tract of land as described in Volume 6763, Page 1639 of the Deed and Plat Records of Bexar County, Texas as follows:
- N 44°45'11" W, 203.78 feet to a found ½" iron pin for a point of deflection;
- N 09°02'03" W, 517.16 feet to a set IPWYC for a point of deflection;
- N 31°26'32" E, 290.00 feet to a set IPWYC at the beginning of a curve to the left;

N 27°41'16" E, 89.81 feet to a found ½" iron pin on the south right of way line of said Gold Canyon Road at the beginning of a curve to the right; said iron pin being a northwest corner of the tract herein described;

THENCE 227.58 feet along the south right of way line of said Gold Canyon Road and the said curve to the right having a central angle of 15 12'55" and a radius of 857.00 feet to a set IPWYC at a point of tangency;

THENCE S 83°14'27" E, 382.97 feet along the south right of way line of said Gold Canyon Road to the **POINT OF BEGINNING** and containing 49.400 acres of land, more or less.





Adalberto Camarillo
Registered Professional Land Surveyor
No. 3929
June 01, 2007

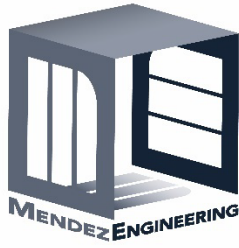
Doc# 20070277555
Pages 8
11/30/2007 10:35:35 AM
e-Filed & e-Recorded in the
Official Public Records of
BEXAR COUNTY
GERARD RICKHOFF COUNTY CLERK

Fees 40.00

STATE OF TEXAS
COUNTY OF BEXAR
This is to Certify that this document
was e-FILED and e-RECORDED in the Official
Public Records of Bexar County, Texas
on this date and time stamped thereon.
11/30/2007 10:35:35 AM
COUNTY CLERK, BEXAR COUNTY TEXAS



Gerard Rickhoff



SECTION B

General Information Form TCEQ-0587

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

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

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

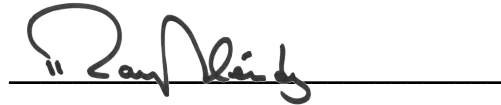
Signature

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

Print Name of Customer/Agent: Ray Mendez, PE, RGDP, LGPP

Date: 9/10/2025

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Gold Canyon Park
2. County: Bexar
3. Stream Basin: West Elm Creek
4. Groundwater Conservation District (If applicable): 93-Trinity Glen Rose GCD- Edwards Aquifer Authority
5. Edwards Aquifer Zone:
☒ Recharge Zone
☐ Transition Zone
6. Plan Type:
☒ WPAP ☐ SCS

☒ Modification
☐ AST

☐ UST
☐ Exception Request

7. Customer (Applicant):

Contact Person: Jamaal Moreno, Project Manager

Entity: City of San Antonio

Mailing Address: P.O. Box 839966

City, State: San Antonio, TX

Zip: 78283-3966

Telephone: (210)207-6924

FAX: _____

Email Address: Jamaal.Moreno@SanAntonio.Gov

8. Agent/Representative (If any):

Contact Person: Ray Mendez, PE, CFM, RGDP

Entity: Mendez Engineering, LLC

Mailing Address: 888 Isom Rd Suite 200

City, State: San Antonio, TX

Zip: 78216

Telephone: (210)802-0808

FAX: _____

Email Address: RMendez@mendezengineering.com

9. Project Location:

- ☒ The project site is located inside the city limits of City of San Antonio.
☐ 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.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The Gold Canyon Project is a 57.17 Ac site located at Redland Wood near intersection 1604. The site's entry is approximately 2,584 L.F. Located at 1842 Corporate Woods Dr., SA, Tx 78249

11. ☒ **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

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

13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned.**
Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.
- ☒ Survey staking will be completed by this date: 2/13/2022
14. ☒ **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:
- ☒ Area of the site
 - ☒ Offsite areas
 - ☒ Impervious cover
 - ☒ Permanent BMP(s)
 - ☒ Proposed site use
 - ☐ Site history
 - ☒ Previous development
 - ☐ Area(s) to be demolished
15. Existing project site conditions are noted below:
- ☐ Existing commercial site
 - ☐ Existing industrial site
 - ☐ Existing residential site
 - ☒ Existing paved and/or unpaved roads
 - ☒ Undeveloped (Cleared)
 - ☐ Undeveloped (Undisturbed/Uncleared)
 - ☒ Other: Minor amount of existing concrete trails

Prohibited Activities

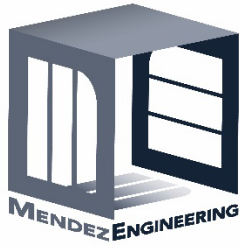
16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:
- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
 - (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
 - (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
 - (4) The use of sewage holding tanks as parts of organized collection systems; and
 - (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
 - (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:
- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);
 - (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
 - (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

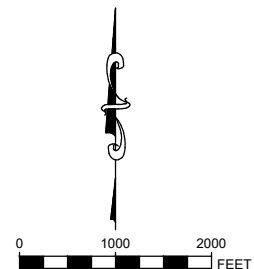
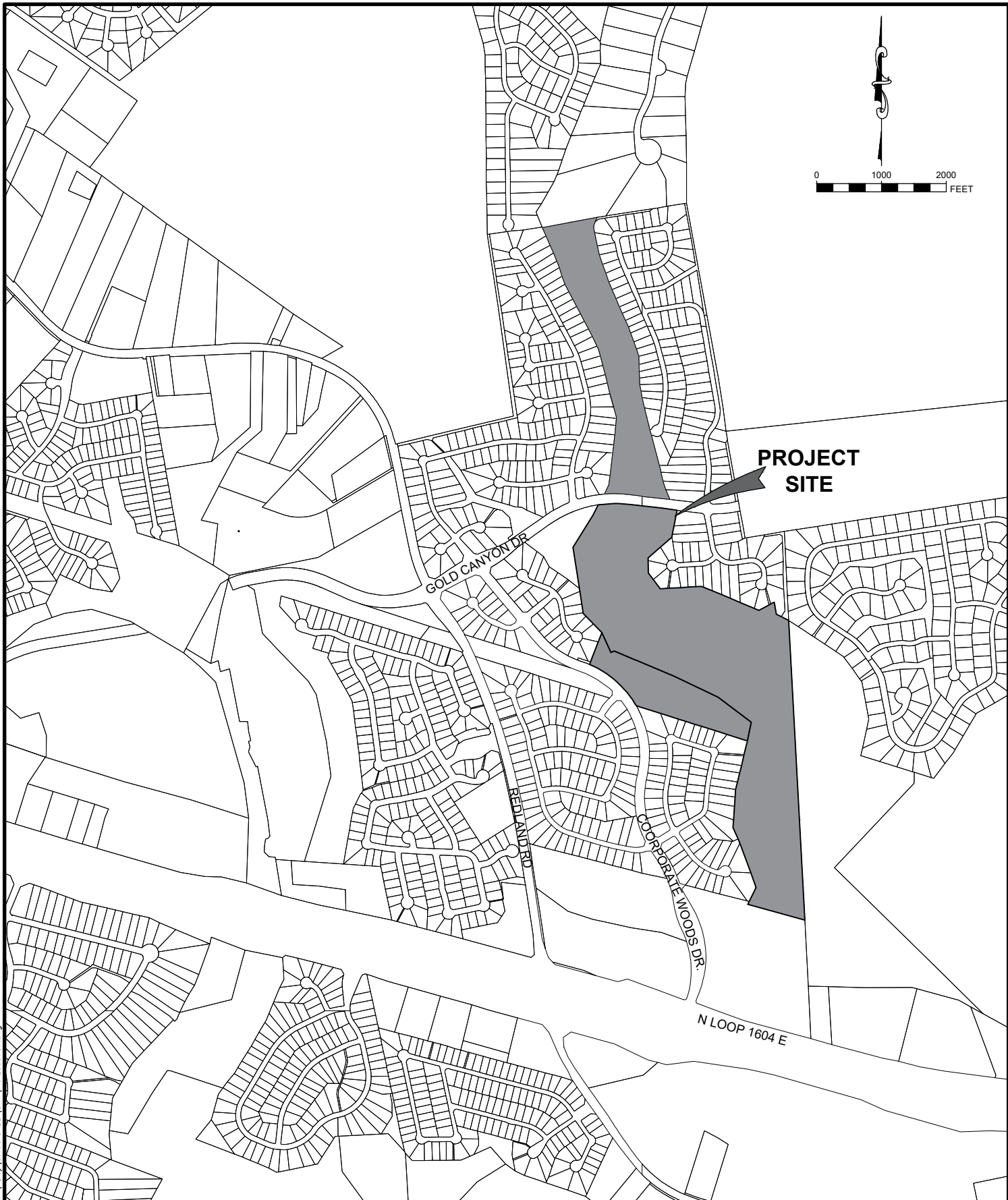
18. The fee for the plan(s) is based on:

- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
 - ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
 - ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
 - ☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
 - ☐ A request for an extension to a previously approved plan.
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:
- ☐ TCEQ cashier
 - ☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
 - ☒ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.



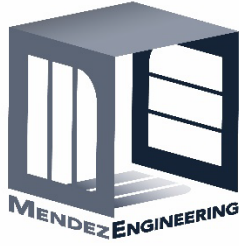
ATTACHMENT A

Road Map



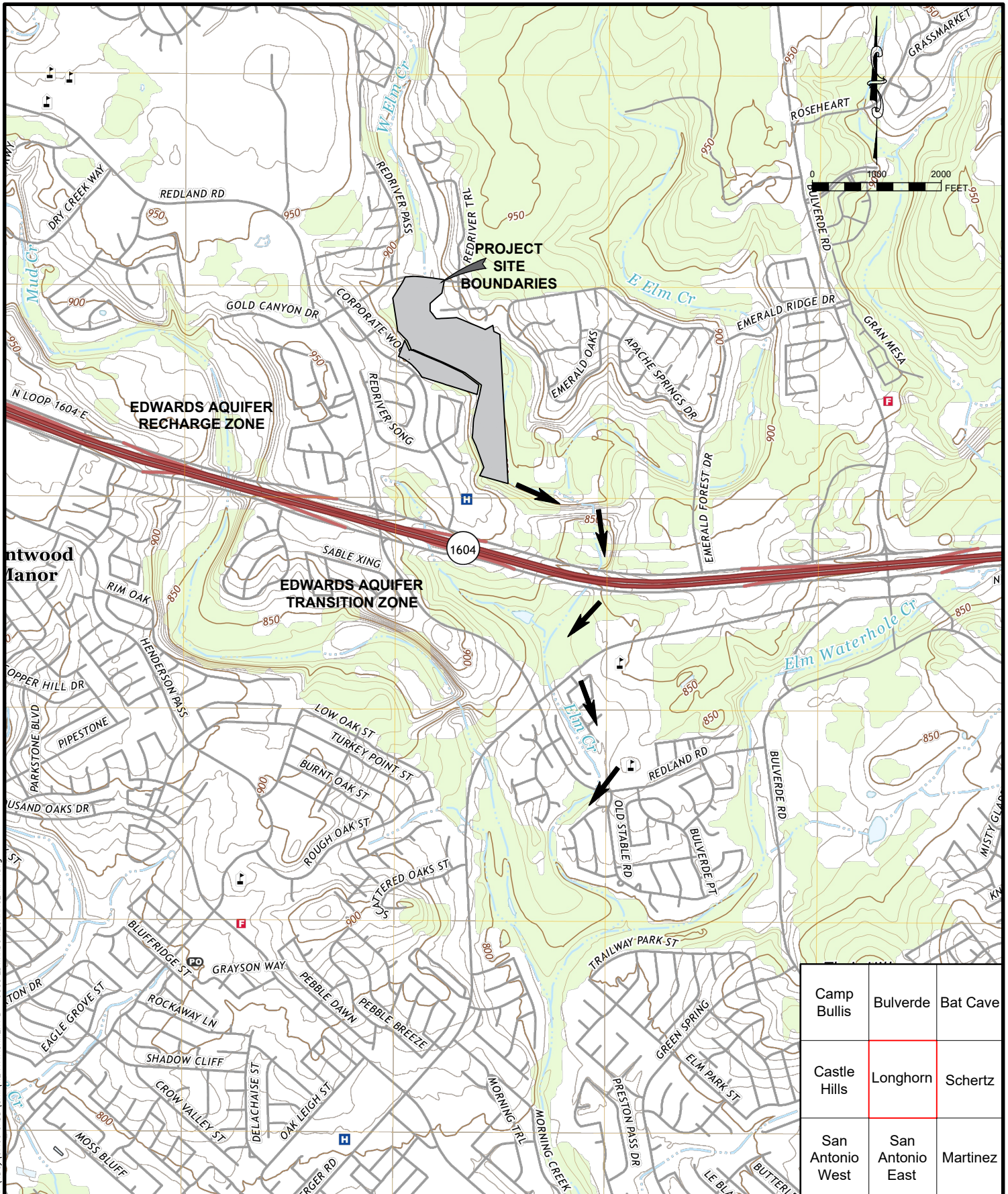
Date: Sep 04, 2023, 2:57pm User ID: ecostaneda
File: M:\222105 C054 - Gold Canyon WAP (DWG)\07.00 CAD\DWG\1.0 Location.dwg

DESIGNED BY: JASIII DRAFTED BY: EC CHECKED BY: RM SHEET	GOLD CANYON PARK 18402 CORPORATE WOODS DR, SAN ANTONIO, TX 78259	ATTACHMENT A- ROAD MAP	 MENDEZ ENGINEERING Registration # F-14070 888 Isom Rd, Suite 200 San Antonio, Texas 78216 Office: 210-802-0808 www.MendezEngineering.com
Exhibit-1	Owner: CITY OF SAN ANTONIO PO BOX 839966 SAN ANTONIO, TX 78283	WATER POLLUTION ABATEMENT PLAN	



ATTACHMENT B

Recharge Zone Map



Camp Bullis	Bulverde	Bat Cave
Castle Hills	Longhorn	Schertz
San Antonio West	San Antonio East	Martinez

DESIGNED BY: JASIII
 DRAFTED BY: EC
 CHECKED BY: RM
 SHEET
 Exhibit-2

GOLD CANYON PARK
 18402 CORPORATE WOODS DR,
 SAN ANTONIO, TX 78259
 Owner: **CITY OF SAN ANTONIO**
 PO BOX 839966
 SAN ANTONIO, TX 78283

ATTACHMENT B
 RECHARGE ZONE MAP
 WATER POLLUTION ABATEMENT PLAN



MENDEZ ENGINEERING
 Registration # F-14070
 888 Isom Rd, Suite 200
 San Antonio, Texas 78216
 Office: 210-802-0808
 www.MendezEngineering.com

Date: Sep 04, 2023, 3:11pm User ID: ecostoneda
 File: M: 122105 C054 - Gold Canyon WPA1 (T010) 07:00 CADD [DWG] 1:2 ATTACHMENT B - USGS EDWARDS RECHARGE MAP.dwg

ATTACHMENT C

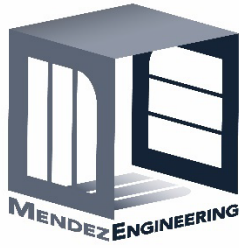
Project Description

The proposed project, Gold Canyon Park is located at 18402 Corporate Woods Dr. San Antonio, TX 78259, south of Gold Canyon Drive. The proposed improvements consist of renovations to the park and improvements to hike and bike trails over 57.17-acres. The site lies along the drainage way of West Elm Creek Upper.

The impervious cover of the proposed project will be 15,345-sq.ft. (0.352-acres) which is 0.62% of the total acreage available. The existing impervious cover of the previously approved WPAP is 67,039-sq. ft. (1.539-acres) which was 2.69% of the total acreage. The new total impervious cover of both existing conditions and proposed improvements is 82,384-sq. ft. (1.891-acres) which is 3.31% of the total acreage.

The renovations include flatwork and a shade canopy at overlook. The trail improvements will involve grading and excavation activities as necessary to construct 2574 L.F. of 6-ft wide concrete trail that will be prepared for further expansion across Gold Canyon Dr.

The site is located within a mostly residential area and consists primarily of undeveloped land located within the West Elm Creek floodplain. Adjacent property primarily includes residential neighborhoods; including Emerald Forest Community, Emerald Village and Red River Dawn Subdivision.



SECTION C

Geologic Assessment Form TCEQ-0585

GEOLOGIC ASSESSMENT (WPAP)

GOLD CANYON PARK TRAILS PROPOSED TRAIL EXTENSIONS SAN ANTONIO, TEXAS

**FROST GEOSCIENCES, INC. PROJECT NO.: FGS-E22213
JANUARY 20, 2023**

Prepared exclusively for

**Terra Design Group
2015 NE Loop 410
San Antonio, Texas 78217**

The logo features a large, dark blue, stylized oval shape that frames the text. The text "Frost GeoSciences" is written in a bold, italicized, sans-serif font. The word "Frost" is in a dark blue color, while "GeoSciences" is in a lighter blue color with a gradient effect.

Frost GeoSciences

***Geotechnical ▪ Construction Materials
Geologic ▪ Environmental***



Frost Geosciences, Inc.
13406 Western Oak
Helotes, Texas 78023
Office (210)-372-1315
Fax (210)-372-1318
www.frostgeosciences.com
TBPE Firm Registration # F-9227
TBPG Firm Registration # 50040

January 20, 2023

Terra Design Group
2015 NE Loop 410
San Antonio, Texas 78217

Attn: Mr. Logan Heard, AIGA

SUBJECT:

Geologic Assessment (WPAP)
for the Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
Proposed Trail Extensions
San Antonio, Texas
FGS Project N^o FGS-E22213

Dear Mr. Logan Heard, AIGA:

Frost GeoSciences, Inc., (FGS) is pleased to submit the enclosed Geologic Assessment completed for the above referenced project site as it relates to 30 TAC §213.5(b)(3), effective June 1, 1999. Our investigation was conducted, and this report was prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04).

If you have any questions regarding this report, or if Frost GeoSciences, Inc. may be of additional assistance to you on this project, please feel free to call our office. It has been a pleasure to work with you and we wish to thank you for the opportunity to be of service to you on this project. We look forward to being of continued service.

We appreciate the opportunity to provide these services for Terra Design Group. Please contact the undersigned if you have questions regarding this report.


Ethan Levine
Staff Geologist



Respectfully submitted,
Frost GeoSciences, Inc.


Steve M. Frost, P.G., C.P.G.
Senior Geologist

Copies Submitted:	(1)	Mr. Logan Heard, AIGA; Terra Design Group
	(1)	Mendez Engineering
	(1)	Electronic (pdf) Copy

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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: Steve M. Frost, P.G.,
C.P.G.

Fax: (210) 372-1318

Date: January 20, 2023

Telephone: (210) 372-1315

Representing: Frost GeoSciences, Inc. #50040 (Name of Company and TBPG or TBPE registration number)

Signature of the Geologist:




Regulated Entity Name: Gold Canyon Park Trails

Project Information

1. Date(s) Geologic Assessment was performed: December 6, 2022

2. Type of Project:

☒ WPAP
☐ SCS

☐ AST
☐ UST

3. Location of Project:

☒ Recharge Zone
☐ Transition Zone
☐ Contributing Zone within the Transition Zone

TCEQ-0585 (Rev. 02-11-15)

1 of 3

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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
Bexar	D	0 to 2
Crawford	D	0 to 2
Tarrant	C	0 to 2

Soil Group Definitions (Abbreviated)

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site-specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
 Applicant's Site Plan Scale: 1" = 20'
 Site Geologic Map Scale: 1" = 20'
 Site Soils Map Scale (if more than 1 soil type): 1" = 500'
9. Method of collecting positional data:
 - ☒ Global Positioning System (GPS) technology.
 - ☒ Other method(s). Please describe method of data collection: 2022 Aerial Photograph
10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- ☐ Geologic or manmade features were not discovered on the project site during the field investigation.
13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- ☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- ☐ The wells are not in use and have been properly abandoned.
- ☐ The wells are not in use and will be properly abandoned.
- ☐ The wells are in use and comply with 16 TAC Chapter 76.
- ☒ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

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

STRATIGRAPHIC COLUMN

[Hydrogeologic subdivisions modified from Maclay and Small (1976); groups, formations, and members modified from Rose (1972); lithology modified from Dunham (1962); and porosity type modified from Choquette and Pray (1970). CU, confining unit; AQ, aquifer]

Hydrogeologic subdivision		Group, formation, or member	Hydro-logic function	Thickness (feet)	Lithology	Field identification	Cavern development	Porosity/permeability type			
Upper Cretaceous	Upper confining units	Eagle Ford Group	CU	30 – 50	Brown, flaggy shale and argillaceous limestone	Thin flagstones; petroliferous	None	Primary porosity lost/ low permeability			
		Buda Limestone	CU	40 – 50	Buff, light gray, dense mudstone	Porcelaneous limestone with calcite-filled veins	Minor surface karst	Low porosity/low permeability			
		Del Rio Clay	CU	40 – 50	Blue-green to yellow-brown clay	Fossiliferous; <i>Ilymatogyra arietina</i>	None	None/primary upper confining unit			
Lower Cretaceous	I	Edwards aquifer	Edwards Group	Person Formation	Georgetown Formation	Karst AQ; not karst CU	2 – 20	Reddish-brown, gray to light tan marly limestone	Marker fossil; <i>Waconella wacoensis</i>	None	Low porosity/low permeability
	II				Cyclic and marine members, undivided	AQ	80 – 90	Mudstone to packstone; <i>miliolid</i> grainstone; chert	Thin graded cycles; massive beds to relatively thin beds; crossbeds	Many subsurface; might be associated with earlier karst development	Laterally extensive; both fabric and not fabric/water-yielding
	III				Leached and collapsed members, undivided	AQ	70 – 90	Crystalline limestone; mudstone to grainstone; chert; collapsed breccia	Bioturbated iron-stained beds separated by massive limestone beds; stromatolitic limestone	Extensive lateral development; large rooms	Majority not fabric/one of the most permeable
	IV				Regional dense member	CU	20 – 24	Dense, argillaceous mudstone	Wispy iron-oxide stains	Very few; only vertical fracture enlargement	Not fabric/low permeability; vertical barrier
	V				Grainstone member	AQ	50 – 60	<i>Miliolid</i> grainstone; mudstone to wackestone; chert	White crossbedded grainstone	Few	Not fabric/ recrystallization reduces permeability
	VI				Kirschberg evaporite member	AQ	50 – 60	Highly altered crystalline limestone; chalky mudstone; chert	Boxwork voids, with neospar and travertine frame	Probably extensive cave development	Majority fabric/one of the most permeable
	VII				Dolomitic member	AQ	110 – 130	Mudstone to grainstone; crystalline limestone; chert	Massively bedded light gray, <i>Toucasia</i> abundant	Caves related to structure or bedding planes	Mostly not fabric; some bedding plane-fabric/water-yielding
	VIII				Basal nodular member	Karst AQ; not karst CU	50 – 60	Shaly, nodular limestone; mudstone and <i>miliolid</i> grainstone	Massive, nodular and mottled, <i>Exogyra texana</i>	Large lateral caves at surface; a few caves near Cibolo Creek	Fabric; stratigraphically controlled/large conduit flow at surface; no permeability in subsurface
		Lower confining unit	Upper member of the Glen Rose Limestone	CU; evaporite beds AQ	350 – 500	Yellowish tan, thinly bedded limestone and marl	Stair-step topography; alternating limestone and marl	Some surface cave development	Some water production at evaporite beds/relatively impermeable		

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: Gold Canyon Park Trails

PROJECT NUMBER: FGS-E22213

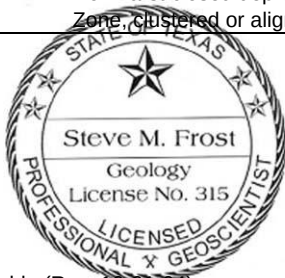
LOCATION			FEATURE CHARACTERISTICS												EVALUATION			PHYSICAL SETTING			
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12	
FEATURE ID	LATITUDE	LONGITUDE	FEATU RE TYPE	POINTS	FORMATIO N	DIMENSIONS (FEET)			TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY	
						X	Y	Z		10							<40	>40	<1.6	>1.6	
F-2	29° 36' 45.06"	-98° 26' 30.54"	MB	30	Kek	3	3	0.5	-	-	-	-	X	5	35	35	-	YES	-	Streambed	
S-1	29° 36' 41.28"	-98° 26' 31.56"	CD	5	Kek	6	8	0.5	-	-	-	-	OF	15	20	20	-	YES		Streambed	
S-5	29° 36' 38.64"	-98° 26' 30.54"	O ^{FR}	5	Kek	30	75	-	-	-	1-2/ft	0.12-0.25	OF	15	20	20	-	YES	-	Streambed	
S-15	29° 36' 38.64"	-98° 26' 30.54"	F	20	Kek/Kep	-	-							10	10	30	-	YES	-	Floodplain	

Datum: NAD 83

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

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

12 TOPOGRAPHY
Cliff, Hilltop, Hillside, Floodplain, Streambed



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 213.

Steve M. Frost, P.G., C.P.G.

Date: 1/20/2023

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

Sheet 1 of 1

LOCATION

The project site consists of proposed and existing walking trails within Gold Canyon Park which is located approximately 750 feet east of the intersection of Gold Canyon Drive and Corporate Woods Drive in San Antonio, Texas. An overall view of the area is shown on copies of the site plan, a street map, the U.S.G.S. Topographic Map, the EAA-Edwards Aquifer Recharge Zone and Contributing Zone Map, the FIRM Map, U.S. Geological Survey: Water Resources Investigations Report (WRI) 95-4030 Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas, and 2022 aerial photographs at a scale of 1"=500' and 1"=200', as well as NRCS Web Soil Survey aerial photograph at a scale of 1"=500'. These maps are included as Figures 1 through 10 in Appendix A.

METHODOLOGY

The Geologic Assessment was performed by Steve M. Frost, P.G., C.P.G., Principal Geologist, Brian Culver and Ethan Levine with Frost GeoSciences, Inc. Mr. Frost is a Licensed Professional Geoscientist in the State of Texas (License # 315).

Frost GeoSciences, Inc. researched the geology of the area east of the intersection of Gold Canyon Drive and Corporate Woods Drive in San Antonio, Texas. The research included, but was not limited to, the Geologic Atlas of Texas, San Antonio Sheet, FEMA maps, Edwards Aquifer Recharge Zone Maps, the Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle, the U.S.G.S. Water-Resources Investigations Report 95-4030, and the U.S.D.A. Soil Survey of Bexar County, Texas.

After reviewing the available information, a field investigation was performed to identify any geologic or man-made Potential Recharge Features (PRFs). A transect spacing of approximately 50 feet, or less depending on vegetation thickness, was used to inspect the project area. A 2022 aerial photograph, in conjunction with a hand-held Garmin GPS 72H Global Positioning System with an Estimated Potential Error ranging from 10 to 14 feet, was used to navigate around the property and identify the locations of PRFs, as recommended in the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04). The locations of any PRFs noted in the field were marked with blue and white flagging. The flagging is numbered with the same potential recharge feature I.D. # that is used on the Site Geologic Map. The Site Geologic Map, indicating the limits of the project site, and the locations of PRFs and rock outcrops noted on the project site, is included in Appendix C at the end of this report. A copy of a 2022 Aerial Photograph at an approximate scale of 1" = 200' indicating the limits of the project site, and the locations of PRFs and rock outcrops noted on the project site, is included on Figure 10 in Appendix A. The Geologic Assessment Form TCEQ-0585, (Rev. 2-11-15), Stratigraphic Column, and the Geologic Assessment Table have been filled with the appropriate information for this project site and are included on pages 1 through 5.

RESEARCH & OBSERVATIONS

7.5 Minute Quadrangle Map Review

According to the U.S.G.S. 7.5 Minute Quadrangle Map, Longhorn, Texas (1992) the elevation across the project site ranges from 870 to 910 feet above mean sea level. The project site has a total relief of approximately 40 feet. Runoff from the project site flows internally toward the central portion of the project site into West Elm Creek. Gold Canyon Drive is located along the northern boundary and Corporate Woods Drive is located west of the project site. A copy of the U.S.G.S. 7.5 Minute Quadrangle Map indicating the location of the project site is included on Figure 3 in Appendix A.

Bexar County Watersheds Map

According to the Bexar County Watersheds Map (2003), the project site is located within the Upper Salado Creek Watershed Area. A copy of the Bexar County Watersheds Map indicating the location of the project site is included on Figure 4 in Appendix A.

Recharge/Transition Zone

According to the E.A.A. Edwards Aquifer Recharge Zone and Contributing Zone Map, Longhorn, Texas (2014), the Official Edwards Aquifer Recharge Zone Map, Longhorn, Texas (1992), and the TCEQ website: Edwards Aquifer Viewer – <https://tceq.maps.arcgis.com/apps/webappviewer/index.html>, the project site is located within the Recharge Zone of the Edwards Aquifer. A copy of the E.A.A. Edwards Aquifer Recharge Zone and Contributing Zone Map indicating the location of the project site is included on Figure 5 in Appendix A.

100-Year Floodplain

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map for the Flood Insurance Map, Community Panel Number 48029C0255G, dated September 29, 2010, was reviewed to determine if the project site is located in areas prone to flooding. A review of the above-mentioned Panel No. indicates the majority of the project site is located within “Zone A”. The flood panel indicated the project site is located within the floodplain associated with West Elm Creek. The remainder of the project site is located within “Zone X”. According to the Panel Legend, Zone A represents areas where no base flood elevations have been determined. Zone X represents areas determined to be outside of the 100-year floodplain or areas with 1% chance of flooding. A copy of the above referenced FIRM panel indicating the location of the project site is included on Figure 6 in Appendix A.

Soils

According to the United States Department of Agricultural (USDA) Natural Resources Conservation Service (NRCS) Soil Survey of Bexar County (1966) and the USDA NRCS Web Soil Survey (WSS) website, <https://websoilsurvey.nrcs.usda.gov>, the project site is located on the Crawford and Bexar Stony Soils (Cb) and the Tarrant Association, rolling, 5 to 15 percent slopes. A copy of an aerial photo (approximate scale: 1”=500’) obtained from the Web Soil Survey (WSS) website: <https://websoilsurvey.nrcs.usda.gov> has been included on Figure 7 in Appendix A.

- The Crawford and Bexar Stony Soils (Cb) are very dark grayish brown to reddish brown clay. They are stony clay in texture and are shallow to moderately deep over hard limestone. These soils are extensive in the northern part of the county. The surface layer is noncalcareous, about 8 inches thick,

and very dark grayish brown or very dark brown. It has fine, subangular blocky and granular structure. When moist, this layer is very firm but breaks easily to a mass of fine clods. When dry, is very hard and contains many large cracks. Angular fragments of chert and limestone are common. These fragments may range in size from a quarter of an inch to 24 inches in diameter. The subsurface layer is dense, angular blocky clay. This layer is neutral or slightly acidic, but it may be limy in the lower parts. It is about 26 inches thick and either overlies a thin layer of yellowish red to pale brown, limy clay or, if the limy layer is lacking, rests on hard, fractured limestone. Crawford soils are naturally well drained. Internal drainage and permeability vary according to moisture content. Water moves rapidly when the soil is dry and cracked, but very slowly when the soil is wet. This soil has a USDA Texture Classification of Cherty Clay Loam to Loam. The Unified Classification is CG or CL. The AASHTO Classification is A-2, A-4, or A-6. This soil has an average permeability from 1.0 to 1.5 inches/hour.

- Tarrant Association, rolling, 5 to 15 percent slopes (TaC) consists of stony soils that are very shallow, dark colored, and gently undulating to steep. The Tarrant Association occurs on the limestone prairies in the northern third of the county. The surface layer is very dark grayish brown, calcareous clay loam and is about 10" thick. It has moderate, fine, subangular blocky structure. This layer is crumbly and friable when moist. Limestone fragments that range from a quarter of an inch to 24" in diameter cover about 35 percent of the surface. The subsurface layer, about 8" thick, is hard fractured limestone. The cracks and spaces are filled with dark grayish brown clay loam. The bedrock is hard limestone. Tarrant soils have rapid surface drainage and good internal drainage. The capacity to hold water is low. Natural fertility is high. Water erosion is a hazard. This soil has a USDA Texture Classification of Clay Loam. The Unified Classification is CL or CH. The AASHTO Classification is A-7. This soil has an average permeability from 1.0 to 1.5 inches/hour.

Narrative Description of the Site Geology

Based on a visual inspection of the ground surface, the overall potential for fluid flow from the project site into the Edwards Aquifer appears to be low. The locations of the Potential Recharge Features (PRFs) are identified on the 2022 aerial photograph on Figure 10 in Appendix A, and on the Site Geologic Map provided in Appendix C. Color photos of the project site and some of the PRFs are included in Appendix B.

- PRF #F-2, is a manhole cover associated with a sanitary sewer easement observed along the western side of the north-west trending proposed trails. Frost GeoSciences rates the relative infiltration of the manholes as low on figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). The manholes score a 35 on the sensitivity scale, column 10 in the Geologic Assessment Table on page 5 of this report.
- PRF # S-1 consists of a non-karst closed depression in-filled with clay and covered with landscaped lawn. Frost GeoSciences, Inc. rates the feature as low on Figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). The feature scores a 10 on the sensitivity scale, column 10 in the Geologic Assessment Table on Page 4 of this report. Frost GeoSciences, Inc. does not consider the non-karst closed depression to be a sensitive feature.
- PRF #S-5 is an outcrop of fractured gray limestone observed within the streambed of West Elm Creek. The outcrops of fractured limestone had fractures occurring in a density that ranges from 1 to 3 per foot with widths ranging from less than 1 inch to 3 inches. The fractures were in-filled with fine

sediments and fine gravel. Frost GeoSciences, Inc. rates the features as low on Figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). The outcrops of fractured rock scored a 20 on the sensitivity scale, column 15 in the Geologic Assessment Table on Page 5 of this report. Frost GeoSciences, Inc. does not consider the outcrops to be sensitive features.

- PRF # S-15 is a fault identified on the geologic map adjacent to the proposed trail in the south portion of the project site. The USGS Water Resource Investigation Report identified the fault (S-15) as the contact between the Edwards Kainer Limestone to the north and the Edwards Person Limestone to the south. Based on review of the geologic maps of the area, the upwardly displaced formation to the north of the fault is the Edwards Kainer Limestone and the downward displaced formations, to the south of the fault, is the Edwards Person limestone. Based on the absence of direct visual evidence of the faults due to thick soil cover and vegetation, Frost GeoSciences, Inc. rates the feature as low on Figure 1 of the TCEQ-0585-Instructions (Rev. 10-01-04). The feature scores a 30 on the sensitivity scale, column 10 in the Geologic Assessment Table on page 5 of this report.

The project site is covered by a moderately dense stand of vegetative cover with some small open grassy areas. Site visit photos indicating the condition of the property at the time of the on-site inspection are included in Appendix B. Overall vegetation on the project site consists of ashe juniper (*Juniperus ashei*), live oak (*Quercus virginiana*), cedar elm (*Ulmus crassifolia*), and hackberry (*Celtis occidentalis*) with Texas persimmon (*Diospyros texana*), agarita (*Berberis trifoliolata*), yucca (*Yucca treculeana*), and prickly pear cactus (*Opuntia lindheimeri*). The variations in the vegetative cover on the property are visible in the 2022 aerial photo on Figures 9 and 10 in Appendix A. A copy of the site layout indicating the boundary of the project site and the elevations is included on the Site Geologic Map in Appendix C of this report.

According to the U.S. Geological Survey Water Resources Investigations (WRI) 95-4030, Texas, the project site is located on the Grainstone member of the Edwards Kainer formation and the Leached and Collapsed and Regional Dense members of the Edwards Person formation. A copy of the WRI is included on Figure 8 in Appendix A. A copy of the Stratigraphic Column highlighting the outcropping formations is included on Page 4 of this report.

- The Grainstone Member of the Edwards Kainer Limestone is widely recrystallized and consists of miliolid grainstone, mudstone, and wackestone with chert. White crossbedding is common in the grainstone. This member develops few caves as the recrystallization reduces permeability. Overall thickness ranges from 50 to 60 feet.
- The Leached and Collapsed Member of the Edwards Person Limestone consists of crystalline limestone, mudstone to grainstone with chert, and collapsed breccia. This member is stromatolitic limestone. The Leached and Collapsed Member is characterized by bioturbated iron-stained beds separated by massive limestone beds. This member is typically one of the most permeable and has extensive lateral development with large rooms. Overall thickness ranges from 70 to 90 feet thick.
- The Basal Nodular Member of the Edwards Kainer Limestone consists of shaly, nodular limestone, mudstone, and milliolid grainstone. This member is massive, nodular, and mottled with fossils of *Exogyra texana*. This member typically forms large lateral caves at the surface.

According to the site layout provided by Terra Design Group, the elevations on the project site range from 875 to 910 feet. The total relief on the project site is approximately 35 feet. A copy of the site plan indicating the boundary of the project site, the features noted in the field, and the elevations is included on the Site Plan on Figure 1 in Appendix A and the Site Geologic Map in Appendix C of this report.

BEST MANAGEMENT PRACTICES

Based on a visual inspection of the ground surface, the overall potential for fluid flow from the project site into the Edwards Aquifer appears to range from low to moderate. The potential always exists to encounter solution cavities within the subsurface during excavating activities. Frost GeoSciences, Inc. is of the opinion that it is very important for construction personnel to be informed of the potential to encounter cavities in the subsurface that lack a surface expression. Construction personnel should also be informed of the proper protocol to follow in the event a karst feature is encountered during the development of the project site.

DISCLAIMER

This report has been prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04) by a Licensed Texas Professional Geoscientist. All areas of the project site were carefully inspected for features that could contribute to the recharge of the Edwards Aquifer; however, this survey cannot preclude the presence of subsurface karst features that lack surface expression. This report is not intended to be a definitive investigation of all possible geologic or karst features at this site. All conclusions, opinions, and recommendations for Best Management Practices (BMP's) in this report are based on information obtained while researching the project and on the site conditions at the time of our field investigation.

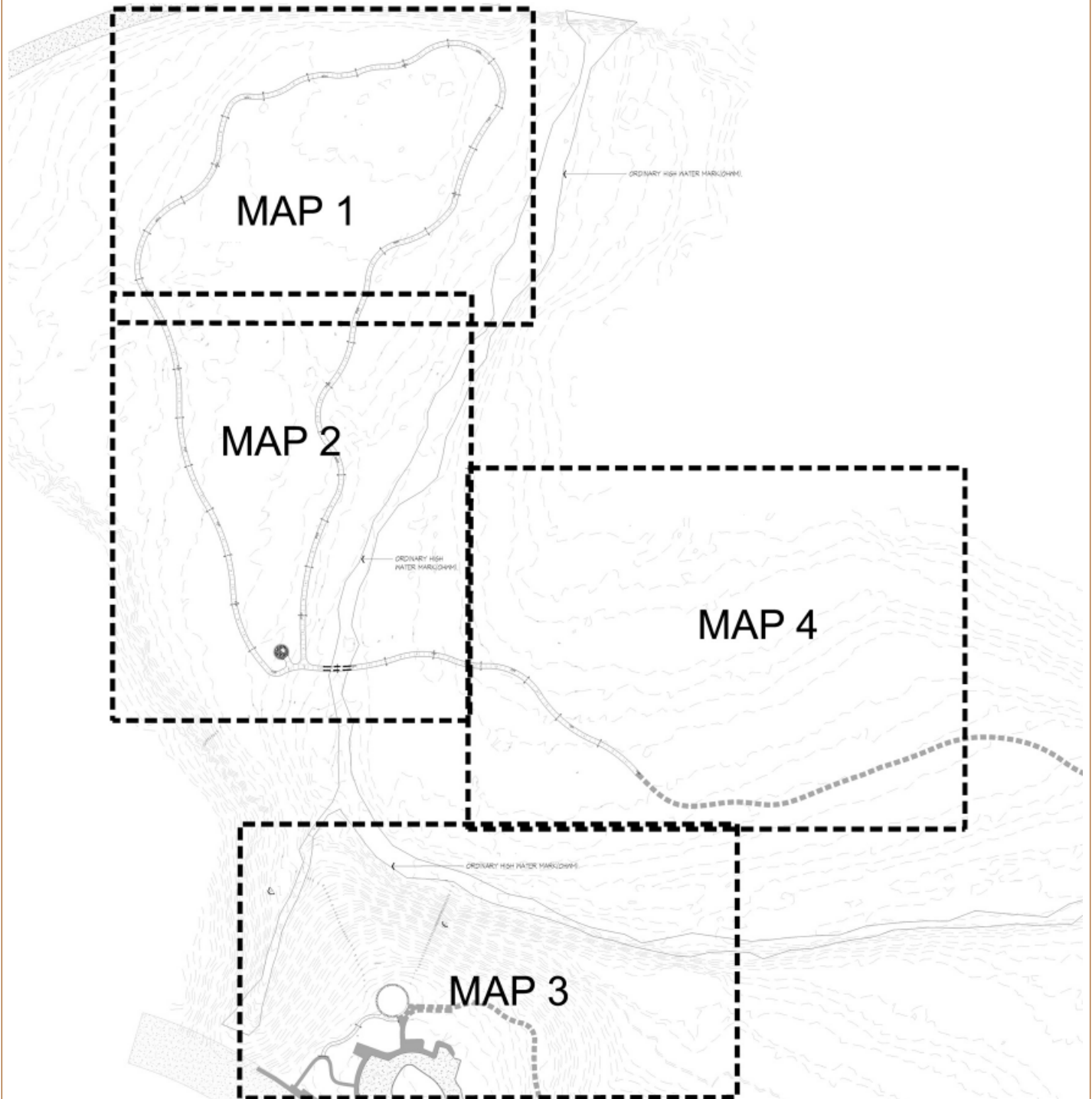
This report has been prepared for the exclusive use of Terra Design Group. This report is based on available known records, a visual inspection of the project site, and the work generally accepted for a Geologic Assessment for Regulated Activities / Developments on the Edwards Aquifer Recharge / Transition Zone, relating to 30 TAC §213.5(b)(3), effective June 1, 1999.

REFERENCES

1. USGS - 7.5 Minute Topographic Quadrangle of Longhorn, Texas, 1992
2. E.A.A. Edwards Aquifer Recharge Zone and Contributing Zone Map, Longhorn, Texas (2014).
3. Official Edwards Aquifer Recharge Zone Map, Longhorn, Texas, 1992
4. The Texas Commission on Environmental Quality (TCEQ) website: Edwards Aquifer Viewer – <https://tceq.maps.arcgis.com/apps/webappviewer/index.html>.
5. Clark, A.K., Golab, J.A. and Morris, R.R., 2016, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, United States Geological Survey.
6. Clark, A.K., Golab, J.A. and Morris, R.R., 2016, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, United States Geological Survey.
7. Collins, Edward, W., 2000, Geologic Map of the New Braunfels 30 X 60 Minute Quadrangle, Bureau of Economic Geology, The University of Texas at Austin, Texas.
8. Stein, W.G. and Ozuna, G.B., 1995, Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas, U.S. Geological Survey Water Resources Investigations 95-4030.
9. Barnes, V.L., 1982, Geologic Atlas of Texas San Antonio Sheet, Bureau of Economic Geology and University of Texas at Austin, Geologic Atlas of Texas.
10. Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, Community Panel Number 48029C0255G, dated September 29, 2010
11. United States Department of Agriculture Soil Conservation Service Soil Survey of Bexar County 1966.
12. USDA NRCS Web Soil Survey (WSS) website: <https://websoilsurvey.nrcs.usda.gov> (2014)
13. TCEQ-0585-Instructions (Rev. 10-1-04), "Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zone".
14. San Antonio Water Systems, Bexar County Watersheds Map, 2004.

APPENDIX A

SITE LOCATION FIGURES



PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

Site Map

PROJECT NO.:

FGS-E22213

DATE:

January 20, 2023

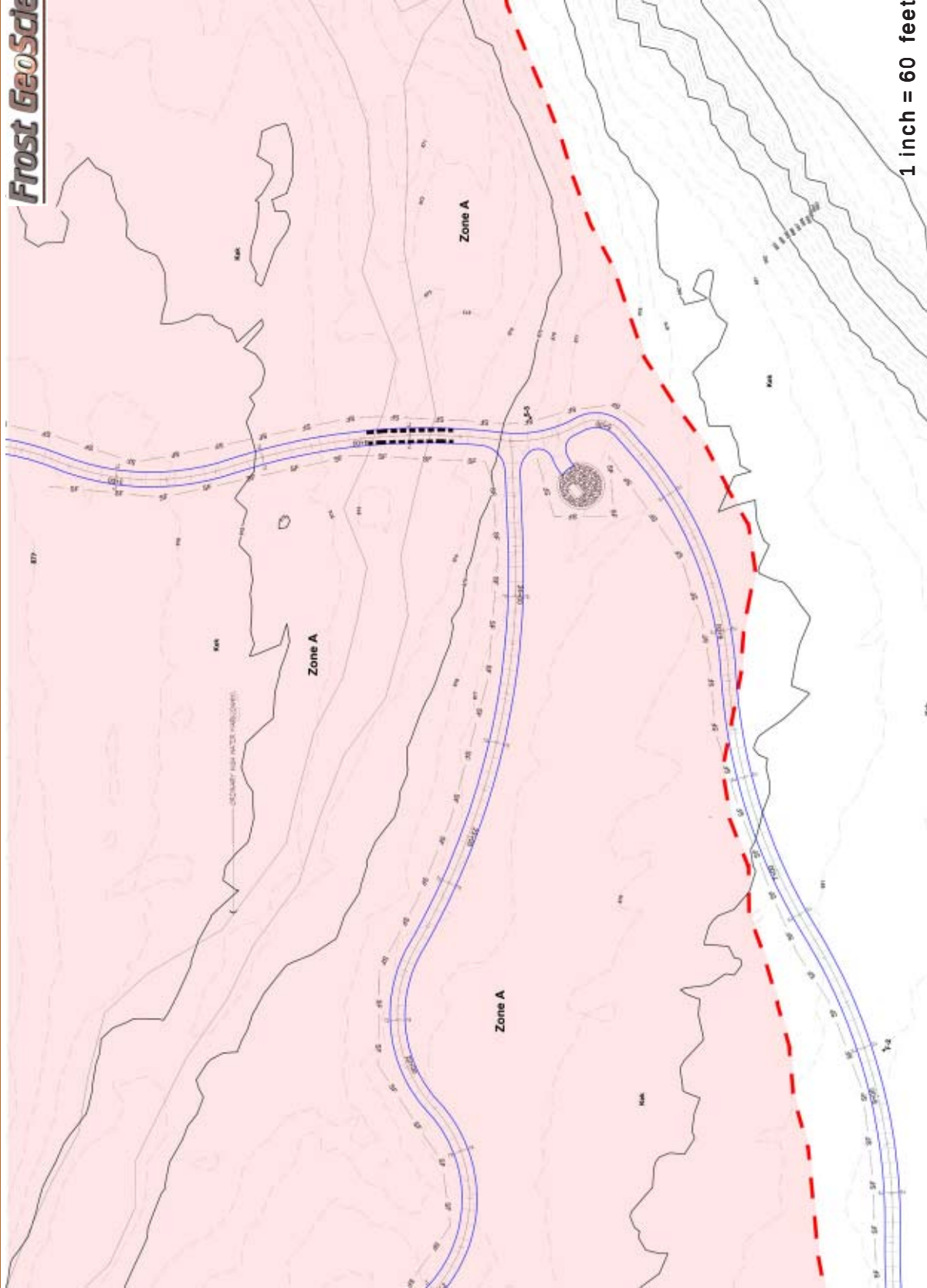


PROJECT NAME:
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

Site Map 1

PROJECT NO.: FGS-E22213

DATE: January 20, 2023



PROJECT NAME:

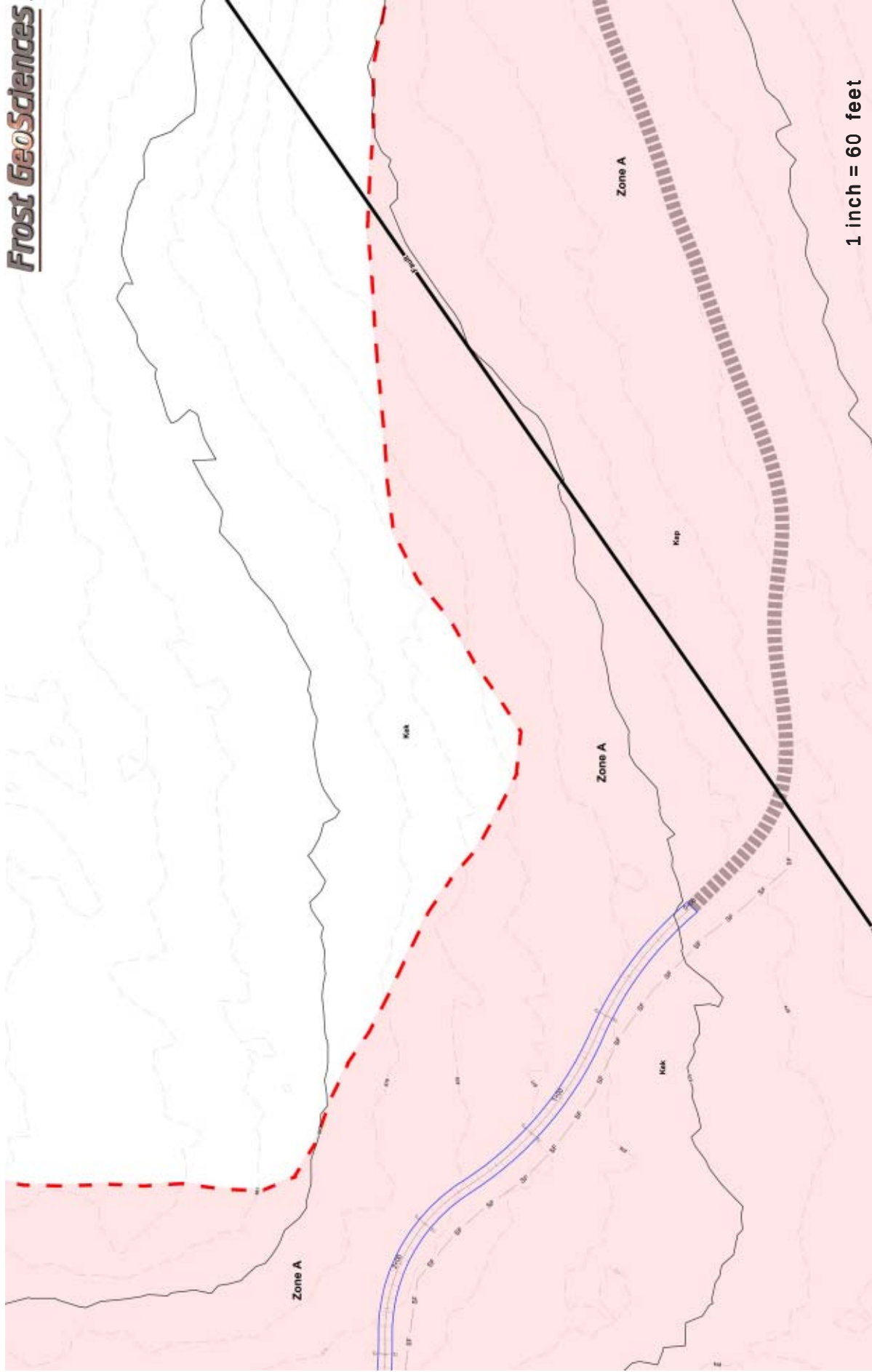
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas



Site Map 2

PROJECT NO.: FGS-E22213

DATE: January 20, 2023

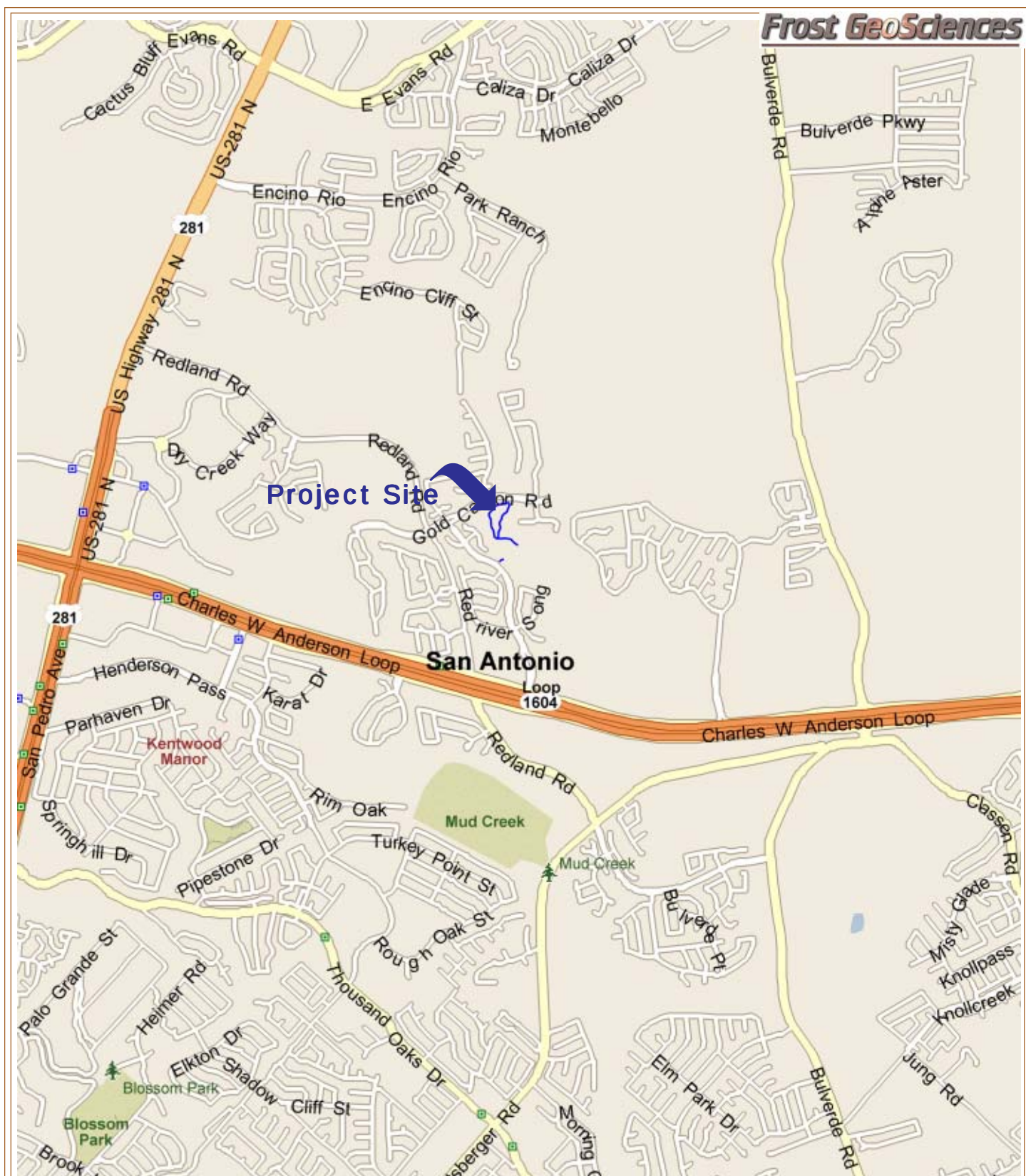


PROJECT NAME:
 Geologic Site Assessment (WPAP)
 for Regulated Activities / Development on the
 Edwards Aquifer Recharge / Transition Zone
 Gold Canyon Park Trails
 San Antonio, Texas

Site Map 4

PROJECT NO.: FGS-E22213

DATE: January 20, 2023



PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

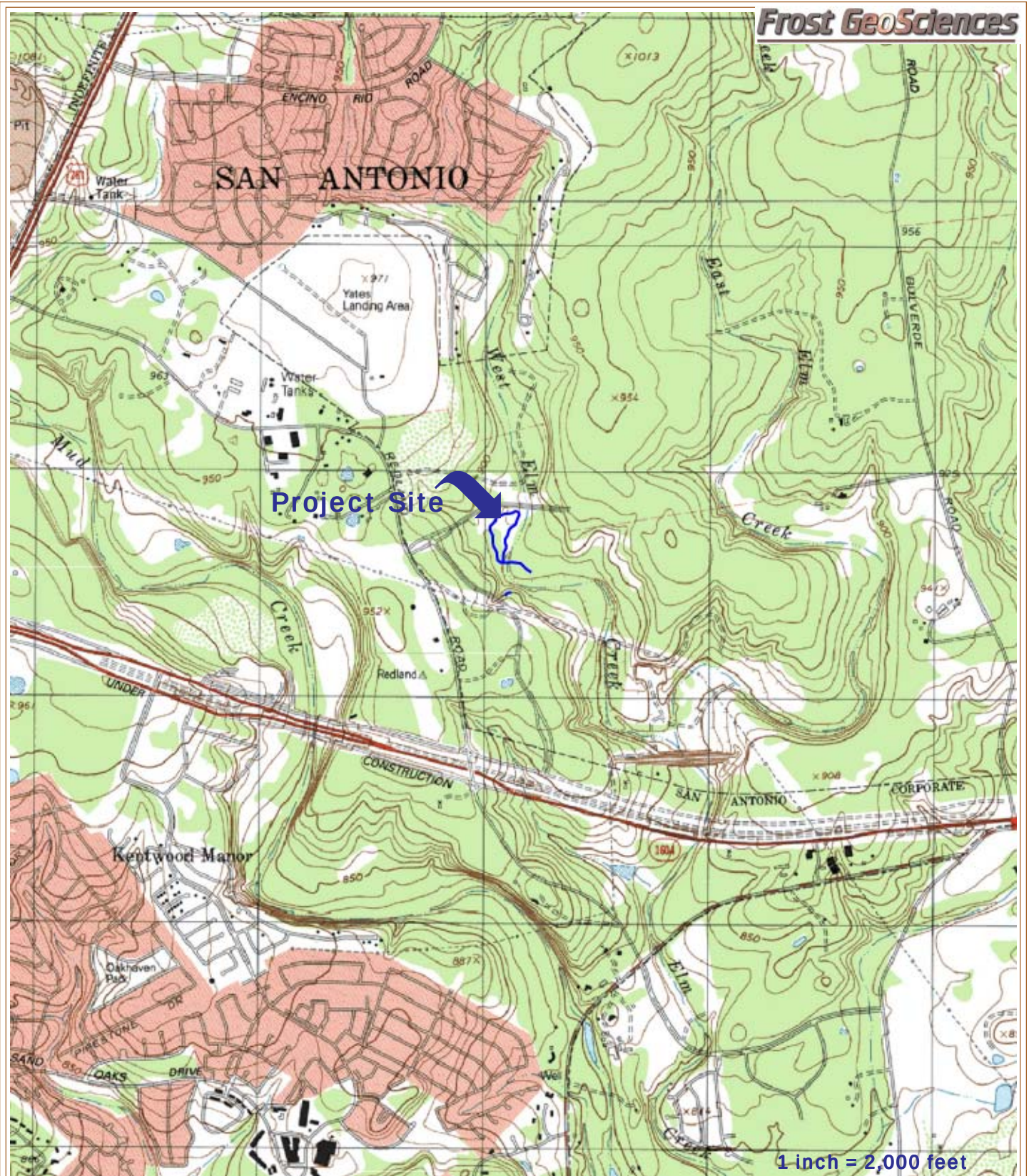
Street Map

PROJECT NO.:

FGS-E22213

DATE:

January 20, 2023



PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

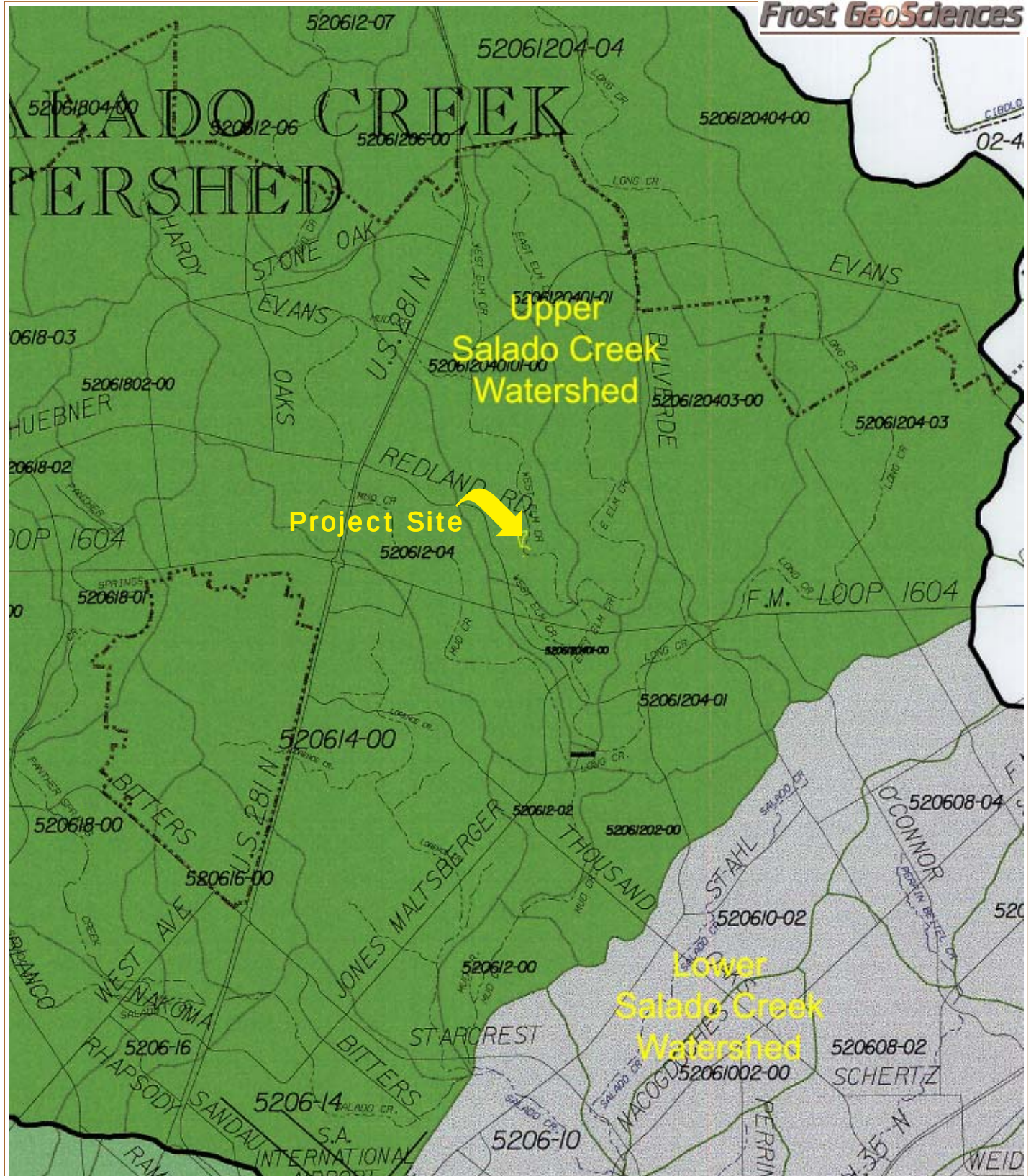
U.S.G.S. 7.5 Minute Quadrangle Map
Longhorn, Texas (1992)

PROJECT NO.:

FGS-E22213

DATE:

January 20, 2023



PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

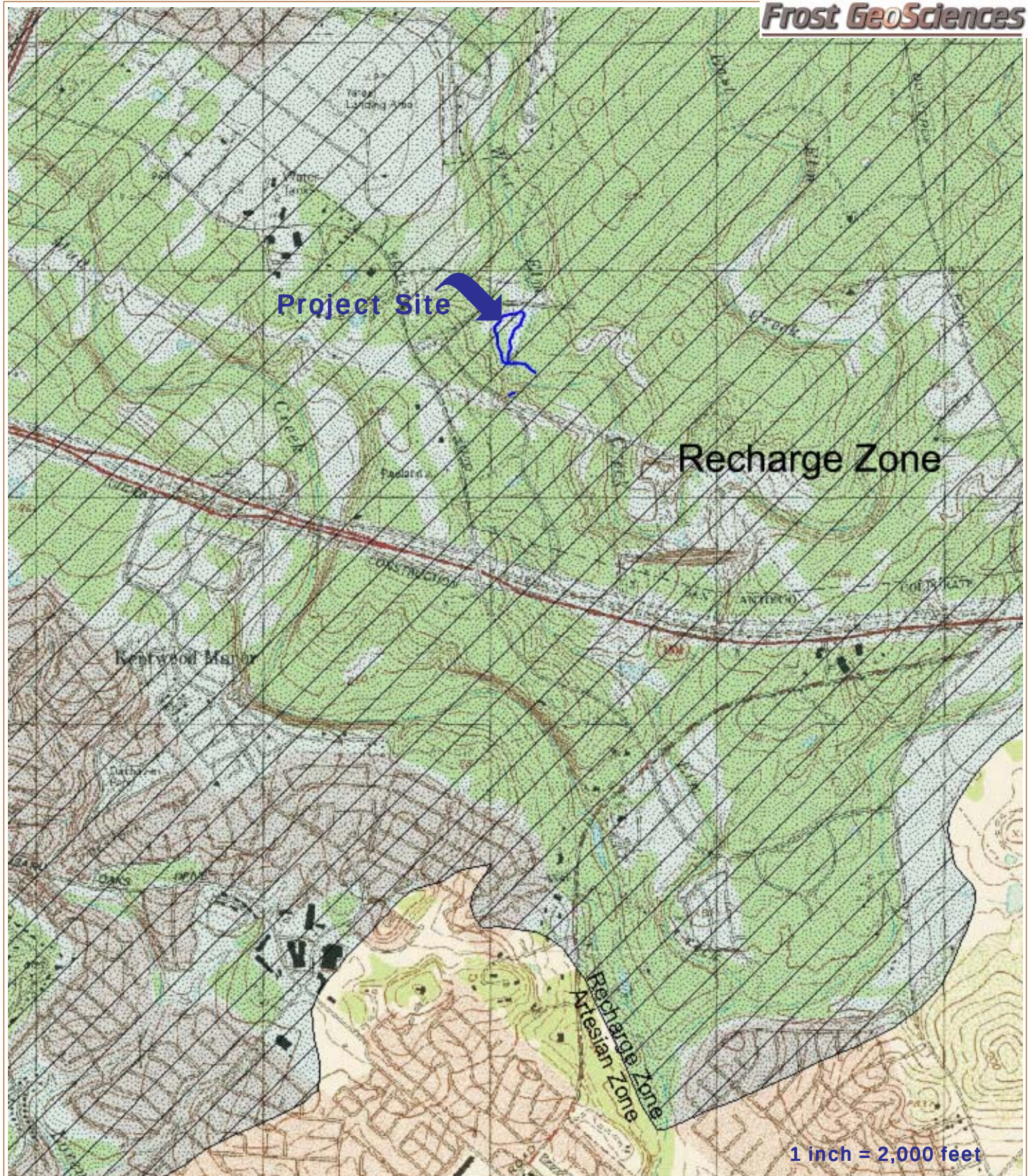
**Bexar County Watersheds Map
San Antonio Water Systems (2004)**

PROJECT NO.:

FGS-E22213

DATE:

January 20, 2023



PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

**EAA Recharge & Contributing Zone Map
Longhorn, Texas (2014)**

PROJECT NO.:

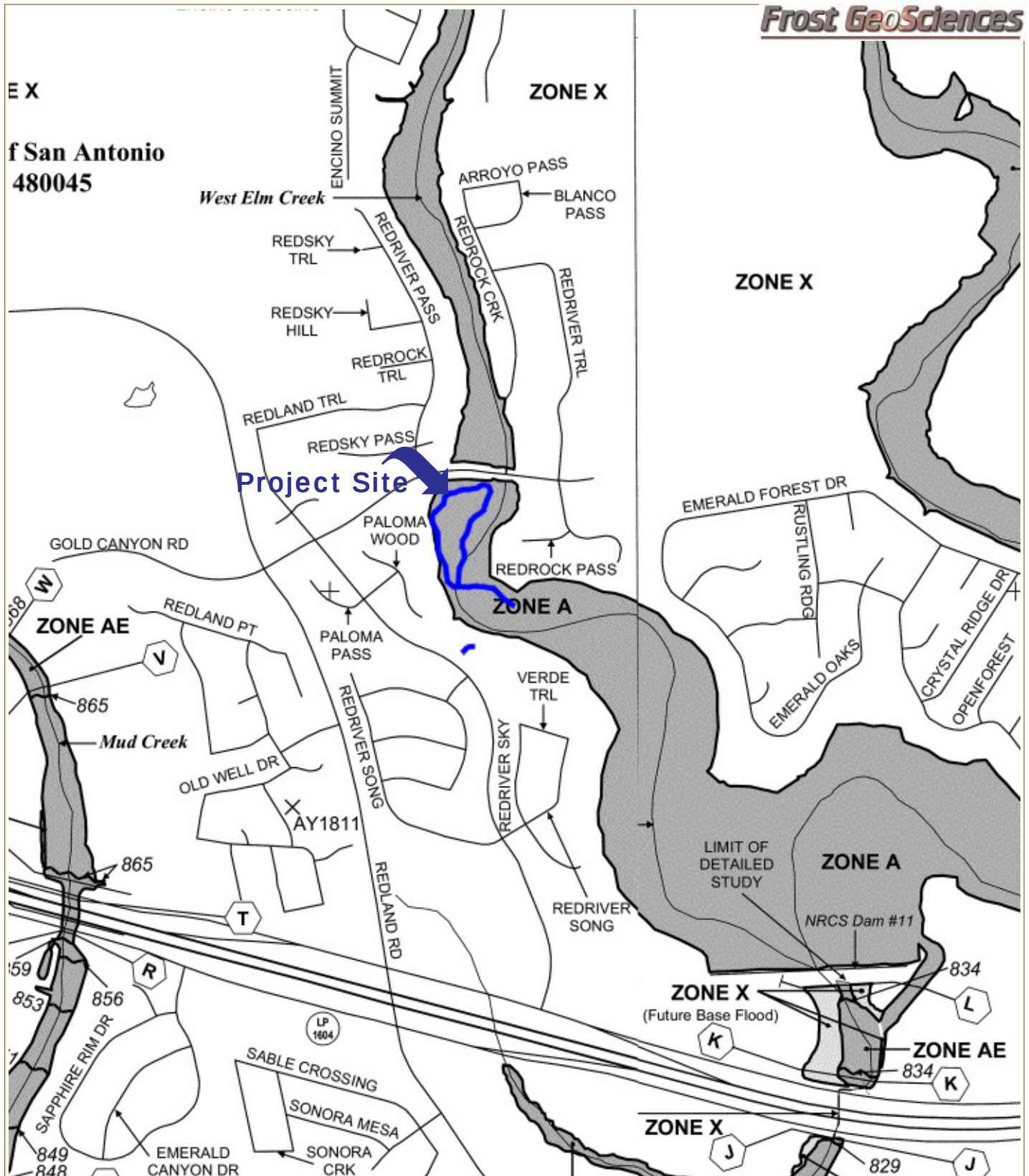
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DATE:

January 20, 2023

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480045**



PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

Flood Insurance Rate Map (FIRM)

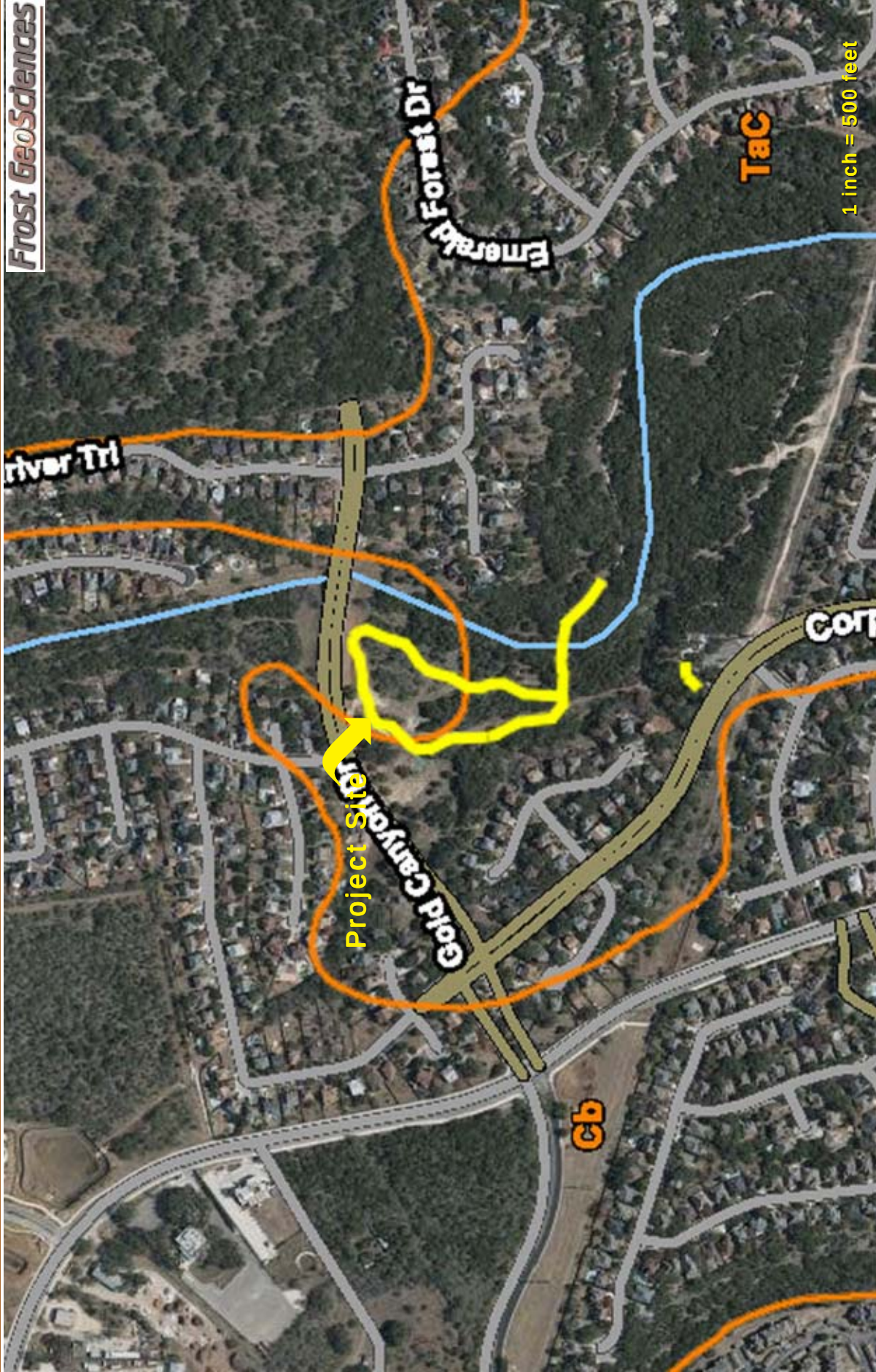
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(9/29/2010)

PROJECT NO.:

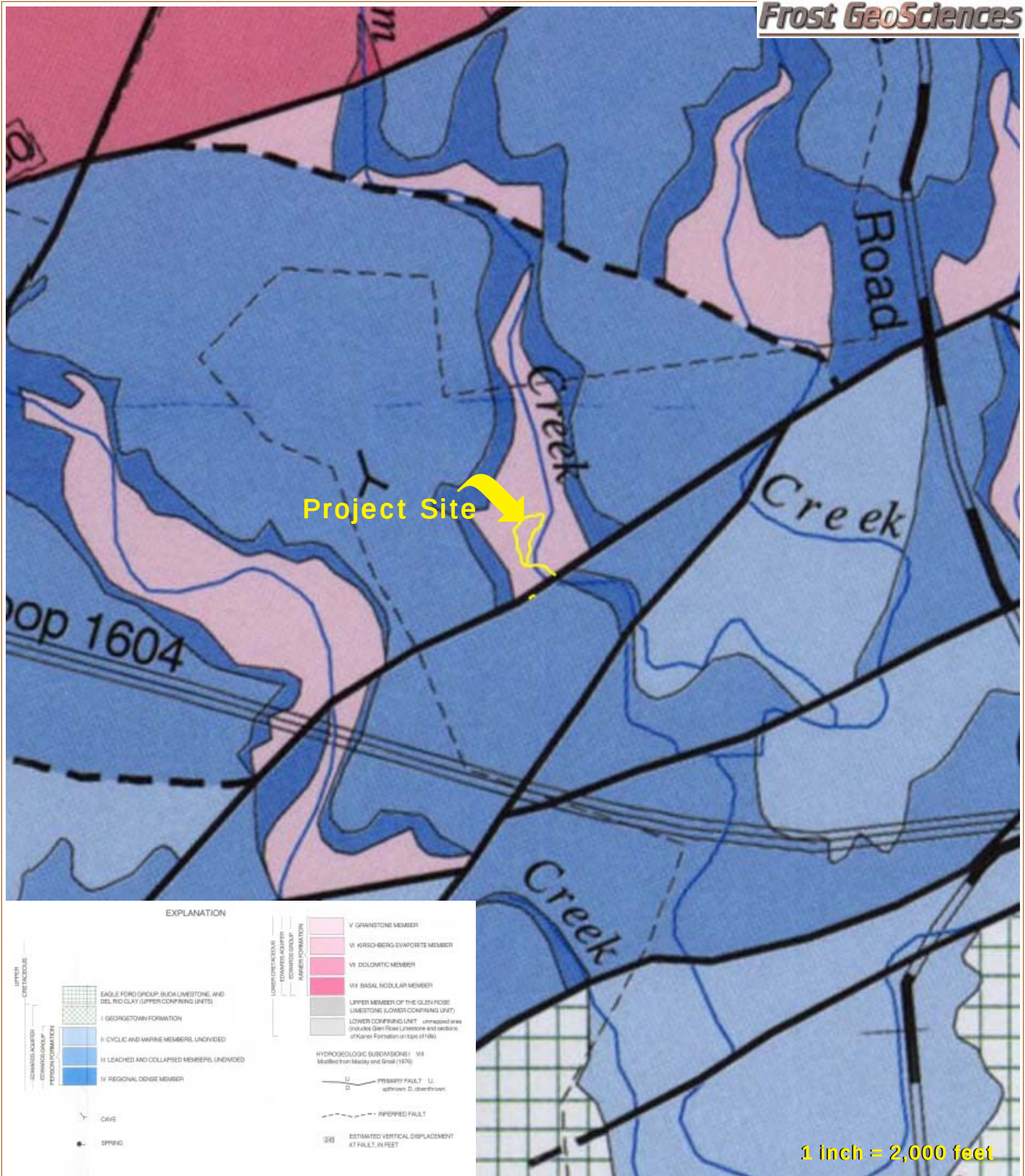
FGS-E22213

DATE:

January 20, 2023



PROJECT NAME: Geologic Site Assessment (WPAP) for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone Gold Canyon Park Trails San Antonio, Texas		Soils Map Bexar County Soil Survey NRCS website: websoilsurvey.nrcs.usda.gov	
PROJECT NO.: FGS-E22213		DATE: January 20, 2023	



PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

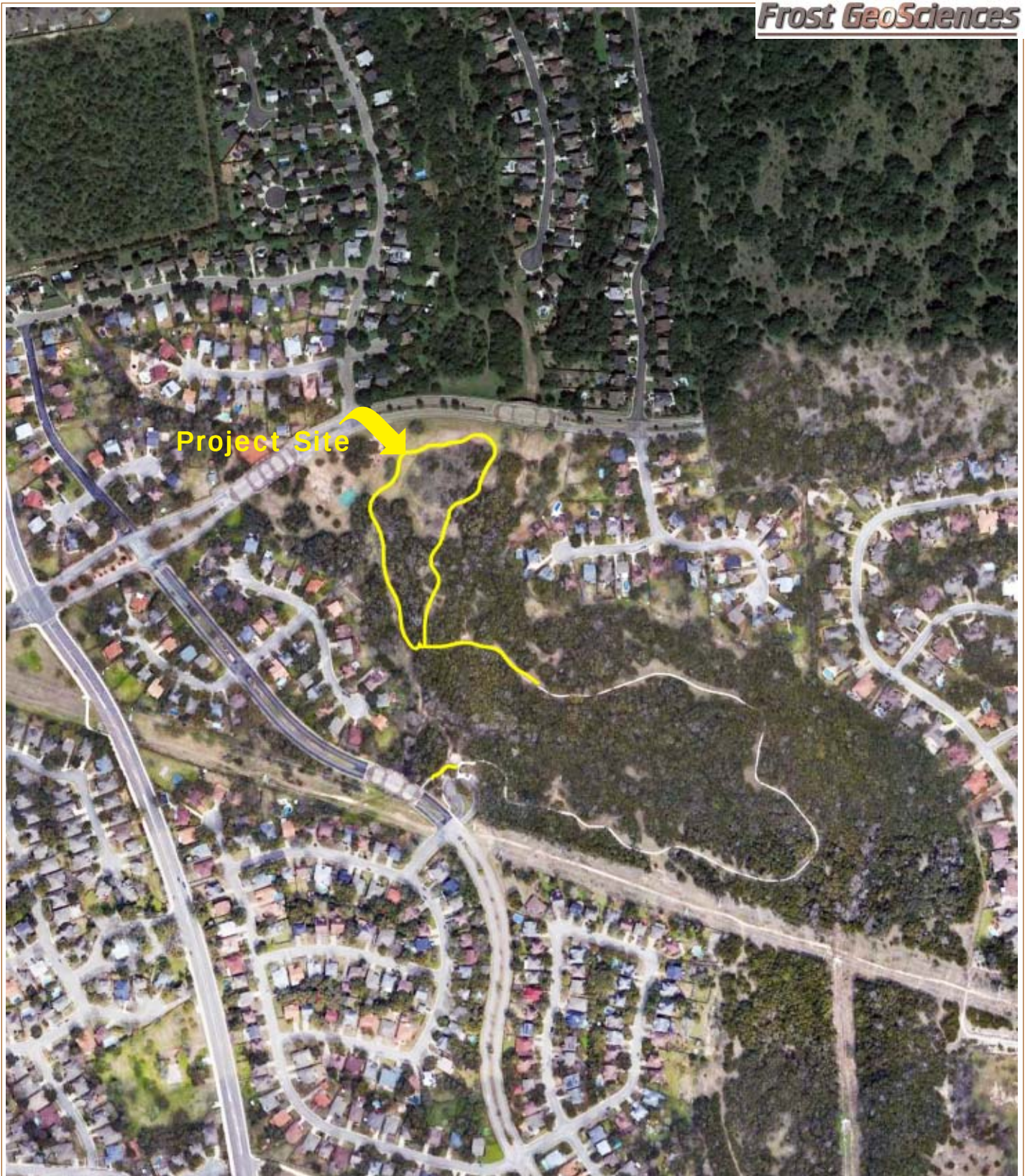
United States Geologic Survey
Water Resources Investigations #4030-95
Geologic Map of Bexar County, Texas

PROJECT NO.:

FGS-E22213

DATE:

January 20, 2023



PROJECT NAME:

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

2022 Aerial Photograph
Google Earth Aerial

PROJECT NO.:

FGS-E22213

DATE:

January 20, 2023

**PROJECT NAME:**

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Gold Canyon Park Trails
San Antonio, Texas

2022 Aerial Photograph with PRFs
Google Earth Aerial

PROJECT NO.:

FGS-E22213

DATE:

January 20, 2023

APPENDIX B
SITE PHOTOGRAPHS



Photo #1 – View of Feature F-1, a SAWS sanitary sewer manhole cover.



Photo #2 – View of the land surrounding F-1.



Photo #3 – View of Feature F-2, a SAWS sanitary sewer manhole cover.



Photo #4 – View of the land surrounding F-2.



Photo #5 – View of Feature F-3, a SAWS sanitary sewer manhole cover.



Photo #6 – View of the land surrounding F-3.



Photo #7 – View of Feature F-4, a SAWS sanitary sewer manhole cover.



Photo #8 – View of the land surrounding F-4, including a concrete storm drain.



Photo #9 – View of Feature F-5, a SAWS sanitary sewer manhole cover.



Photo #10 – View of the land surrounding F-5.



Photo #11 – View of Feature S-10, a solution cavity located at the base of a hillside in a streambed.



Photo #12 – View of the land surrounding S-10.



Photo #13 – View of Features S-5 a streambed with exposed bedrock.



Photo #14 – Additional view of S-5.



Photo #15 – View of the land surrounding S-5.



Photo #16 – View of Feature S-4, exposed and cracked bedrock in a streambed.



Photo #17 – View of the land surrounding S-4.



Photo #18 – View of Feature S-2, exposed and cracked bedrock in a streambed.



Photo #19 – View of the land surrounding S-2, including a storm drain beneath Gold Canyon Drive.

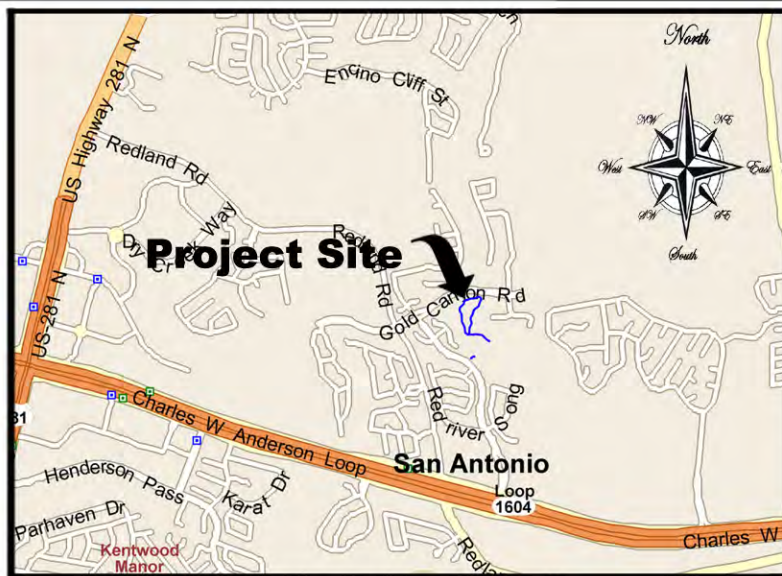


Photo #20 – View of Feature S-3, exposed and cracked bedrock in a streambed.

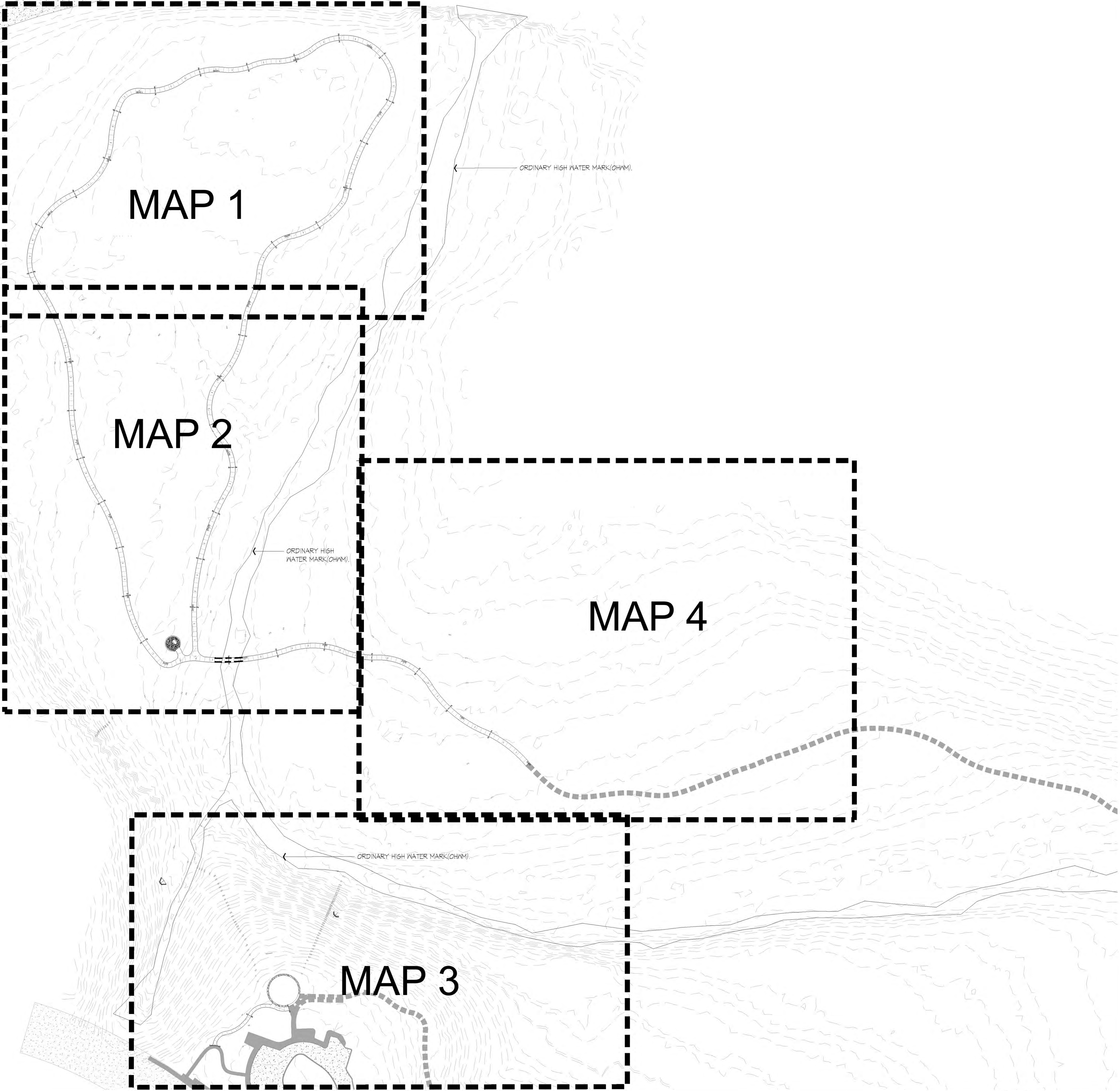


Photo #21 – View of the land surrounding S-3.

APPENDIX C
GEOLOGIC MAP



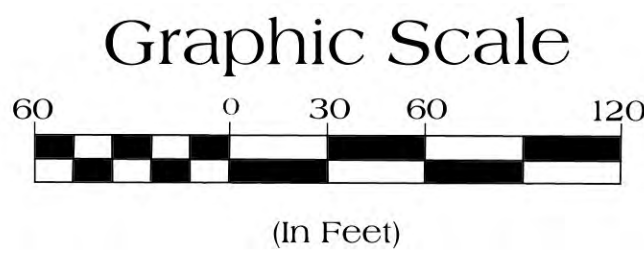
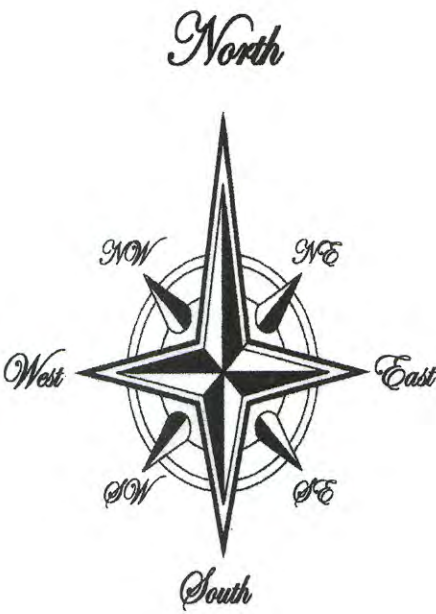
Location Map

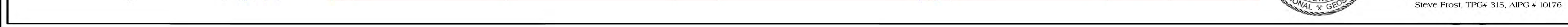
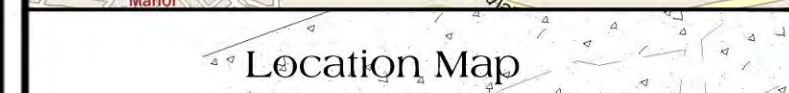


Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
for the

Gold Canyon Park
Proposed Walking Trails
San Antonio, Texas

Frost GeoSciences, Inc. Control # FGS-E22213

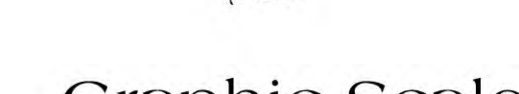




Gold Canyon Park

GeoSciences, Inc. Control # EGS-E22

Fault Information Obtained From:



(In Feet)

1 inch = 20 feet
tentative Fraction

Contour Interval - 1 foot





Signature of Texas Licensed Geoscientist
Steve Frost, TPG# 315, AIPG # 10176



Gold Canyon Park
Proposed Walking Trails
San Antonio, Texas
MAP 2

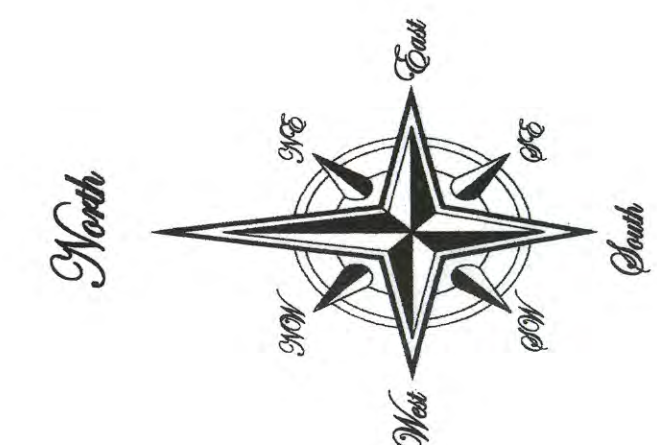
Legend

Kep - Edwards Person Limestone
Kek - Edwards Kainer Limestone
S-# - Potential Recharge Feature (PRF)
F-# - Potential Recharge Feature (PRF)

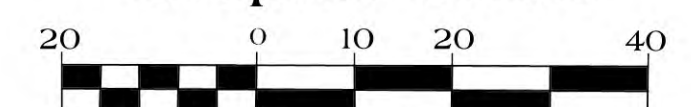
 - Formation Contact
 - Fault
 - Floodplain
 - Silt Fence

Floodplain Information Obtained From FIRM: Flood Insurance Rate Map
Bexar County, Texas: Panel #s 48029C0255G and 48029C0260G,
Revised 9/29/2010

Fault Information Obtained From:
Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet (1983)
U.S. Geological Survey, Water Resources Investigations Report 95-4030 (1995)
Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle (2000)
U.S. Geological Survey Geologic Framework and Hydrostratigraphy of the Edwards
and Trinity Aquifers within Northern Bexar and Comal Counties, Texas (2016)



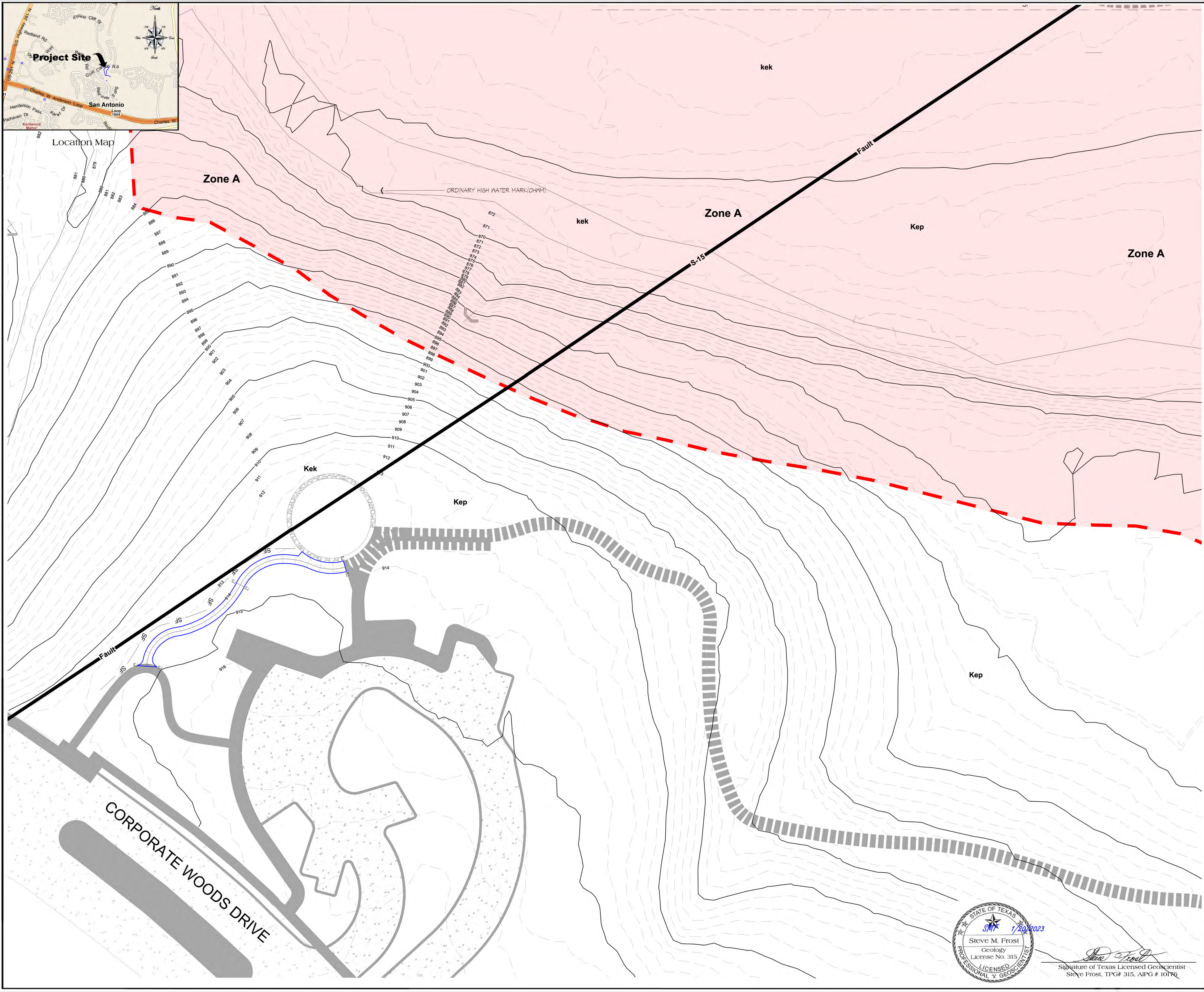
Graphic Scale



(In Feet)

1 inch = 20 feet
Representative Fraction 1:240

Contour Interval - 1 foot



Site Geologic Map

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
for the

Gold Canyon Park
Proposed Walking Trails
San Antonio, Texas
MAP 3

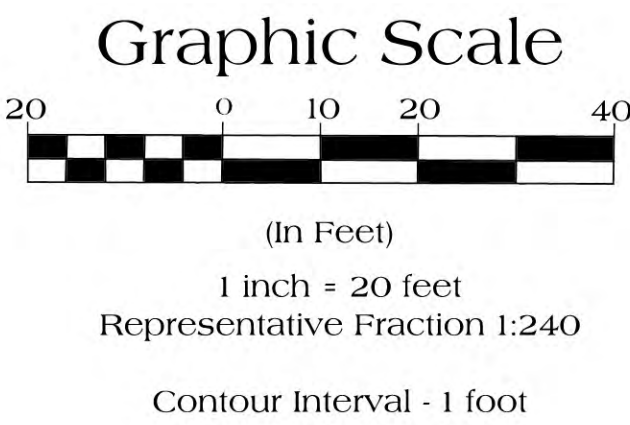
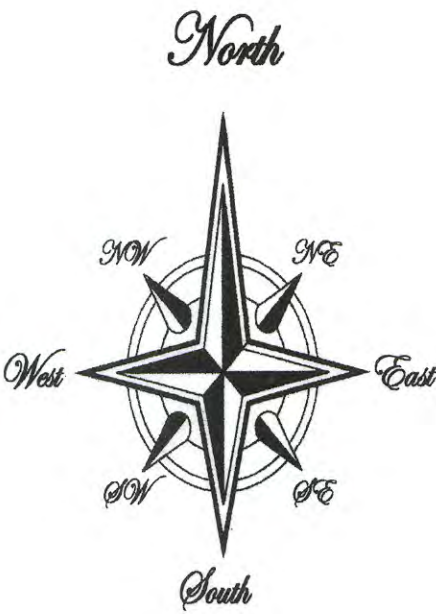
Frost GeoSciences, Inc. Control # FGSE22213

Legend

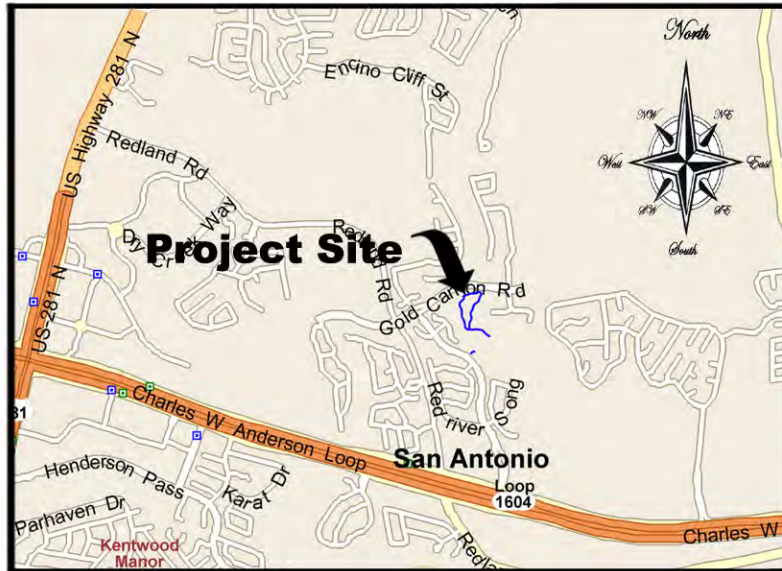
- Kep - Edwards Person Limestone
- Kek - Edwards Kainer Limestone
- S# - Potential Recharge Feature (PRF)
- F# - Potential Recharge Feature (PRF)
- Formation Contact
- Fault
- Floodplain
- SF - Silt Fence

Floodplain Information Obtained From FIRM: Flood Insurance Rate Map
Bexar County, Texas: Panel #s 48029C0255G and 48029C0260G,
Revised 9/29/2010

Fault Information Obtained From:
Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet (1983)
U.S. Geological Survey, Water Resources Investigations Report 95-4030 (1995)
Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle (2000)
U.S. Geological Survey Geologic Framework and Hydrostratigraphy of the Edwards
and Trinity Aquifers within Northern Bexar and Comal Counties, Texas (2016)

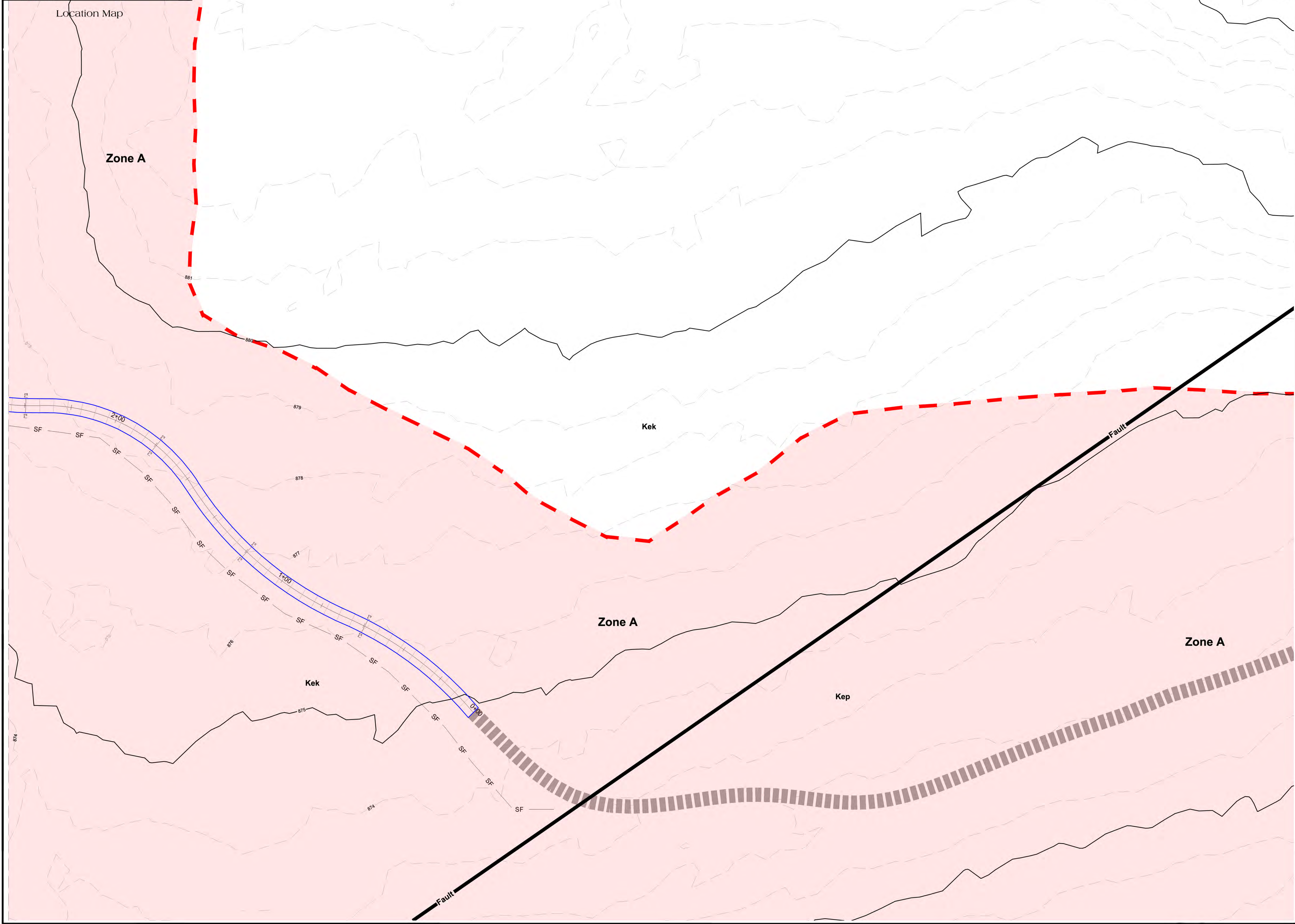


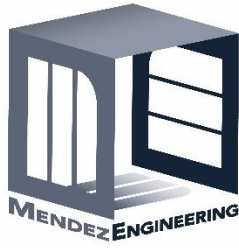
Signature of Texas Licensed Geoscientist
Steve Frost, TPG# 315, AIPG # 10176



4/20/2023

Signature of Texas Licensed Geoscientist
Steve Frost, TPG# 315, AIPG # 10176





SECTION D

Modification of a Previously Approved Plan TCEQ-0590

Modification of a Previously Approved Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and
Relating to 30 TAC 213.4(j), 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.

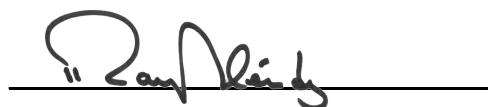
Signature

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 request for a **Modification of a Previously Approved Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Ray Mendez, PE, RGDP, LGPP

Date: 9/10/2025

Signature of Customer/Agent:



Project Information

1. Current Regulated Entity Name: Gold Canyon Park
Original Regulated Entity Name: Gold Canyon Park
Regulated Entity Number(s) (RN): RN10770305
Edwards Aquifer Protection Program ID Number(s): 13-14090202
☒ The applicant has not changed and the Customer Number (CN) is: CN600130652
☐ The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
2. ☒ **Attachment A: Original Approval Letter and Approved Modification Letters.** A copy of the original approval letter and copies of any modification approval letters are attached.

3. A modification of a previously approved plan is requested for (check all that apply):
- ☒ Physical or operational modification of any water pollution abatement structure(s) including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - ☐ Change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - ☐ Development of land previously identified as undeveloped in the original water pollution abatement plan;
 - ☐ Physical modification of the approved organized sewage collection system;
 - ☐ Physical modification of the approved underground storage tank system;
 - ☐ Physical modification of the approved aboveground storage tank system.
4. ☒ Summary of Proposed Modifications (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

<i>WPAP Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Acres	<u>57.17</u>	<u>57.17</u>
Type of Development	<u>Park</u>	<u>Park</u>
Number of Residential Lots	<u>0</u>	<u>0</u>
Impervious Cover (acres)	<u>1.539</u>	<u>1.90</u>
Impervious Cover (%)	<u>2.69</u>	<u>3.32</u>
Permanent BMPs	<u>11</u>	<u>5</u>
Other	_____	_____
<i>SCS Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Linear Feet	_____	_____
Pipe Diameter	_____	_____
Other	_____	_____

**AST Modification
Summary**

Number of ASTs
Volume of ASTs
Other

Approved Project

Proposed Modification

**UST Modification
Summary**

Number of USTs
Volume of USTs
Other

Approved Project

Proposed Modification

5. ☒ **Attachment B: Narrative of Proposed Modification.** A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved, including any previous modifications, and how this proposed modification will change the approved plan.
6. ☒ **Attachment C: Current Site Plan of the Approved Project.** A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
- ☐ The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
- ☒ The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
- ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
7. ☐ The acreage of the approved plan has increased. A Geologic Assessment has been provided for the new acreage.
- ☒ Acreage has not been added to or removed from the approved plan.
8. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

ATTACHMENT A

Original Approval Letter and Approved Modification Letters

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 15, 2014

Mr. Jamaal Moreno
City of San Antonio Transportation & Capital Improvement
P.O. Box 839966
San Antonio, Texas 78283

Re: Edwards Aquifer, Bexar County

NAME OF PROJECT: Gold Canyon Park; Located south of Gold Canyon Drive and east of Corporate Woods Drive; San Antonio, Texas

TYPE OF PLAN: Request for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Investigation No.1193193; Regulated Entity No. RN10770305; Additional ID No. 13-14090202

Dear Mr. Moreno:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP for the above-referenced project submitted to the San Antonio Regional Office by Vickrey & Associates, Inc. on behalf of the City of San Antonio on September 2, 2014. Final review of the WPAP was completed after additional material was received on October 22, 2014, and December 8, 2014. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed project will have an area of approximately 57.17 acres and includes hike and bike trails, and a parking lot. The impervious cover will be 1.539 acres (2.69 percent). No wastewater will be generated by this project.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, eleven engineered vegetated filter strips for the hike and bike trails with a minimum length of 4.2 feet, and 15 foot engineered vegetated filter strips for the parking area, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 1,256 pounds of TSS generated from the 1.539 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The hike and bike trails engineered VFSs will be at least 4.2 feet wide (in the direction of flow), and extend along the entire length hike and bike trails with no gullies, rills or obstructions that will concentrate flow. The parking lot engineered VFSs will be at least 15 feet wide (in the direction of flow), and will extend along the entire length of the parking area with no gullies, rills or obstructions that will concentrate flow. The VFSs will have a uniform slope of less than 20 percent, and will maintain a vegetated cover of at least 80 percent.

GEOLOGY

According to the geologic assessment included with the application, the site lies within the leached and collapsed members, and the regional dense member of the Person Formation, and the grainstone member of the Kainer Formation. The project geologist identified sixteen geologic features and one man made features within the site. All features identified by the project geologist were rated as not sensitive. The San Antonio Regional Office site assessment conducted on October 13, 2014 revealed that the site was generally as described in the application.

SPECIAL CONDITIONS

- I. The permanent pollution abatement measures shall be operational prior to occupancy of the facility.
- II. All sediment and/or media removed from the permanent pollution abatement measure during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.
5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for

use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.

12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
13. No wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
14. If sediment escapes the construction site, the 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). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
15. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
16. The following records shall be maintained and made available to the executive director upon request: 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.
17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

18. 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 San Antonio Regional Office within 30 days of site completion.
19. The applicant shall be 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. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

Mr. Jamaal Moreno

Page 5

December 15, 2014

20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
21. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Monica Reyes of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210)403-4012.

Sincerely,



Lynn Bumgardner, Water Section Manager
San Antonio Region Office
Texas Commission on Environmental Quality

LB/MR/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625

cc: Ms. Susan Landreth, P.E., Vickrey & Associates, Inc.
Ms. Renee Green, P.E., Bexar County Public Works
Mr. Scott Halty, San Antonio Water System
Mr. Roland Ruiz, General Manager, Edwards Aquifer Authority
Mr. George Wissman, Trinity Glen Rose Groundwater Conservation District
TCEQ Central Records, Building F, MC 21

ATTACHMENT B

Narrative of Proposed Modification

The proposed project, Gold Canyon Park is located at 18402 Corporate Woods Dr. San Antonio, TX 78259, south of Gold Canyon Drive. The previously approved WPAP consisted of 1.539 acres of impervious cover within the existing City of San Antonio Gold Canyon Park. The previously approved and constructed improvements involved hike and bike trails through the park and involved constructing 11 engineered vegetated filter strips for mitigation of the new hike & bike trails / sidewalks. The existing impervious cover of the previously approved WPAP is 67,039-sq. ft. (1.539-acres) which was 2.69% of the total acreage.

The proposed improvements consist of renovations to the park and improvements to hike and bike trails over 57.17-acres. The site lies along the drainage way of West Elm Creek Upper. The total impervious cover of the proposed project will be 0.352-acres (15,345 sq-ft) which is 0.62% of the total acreage available.

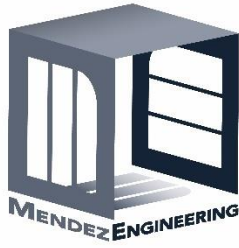
The trail improvements will involve grading and excavation activities as necessary to construct 2574 L.F. of 6-ft wide concrete trail that will be prepared for further expansion across Gold Canyon Dr. The site is located within a mostly residential area and consists primarily of undeveloped land located within the West Elm Creek floodplain. Adjacent property primarily includes residential neighborhoods; including Emerald Forest Community, Emerald Village and Red River Dawn Subdivision.

The proposed modifications are to incorporate the additional trails and additional permanent mitigation BMP's of vegetated filter strips specifically for the new improvements. As described above, the extension of the hike and bike trails will required site grading for compliance with development standards and the incorporation of vegetated filter strips to treat the new impervious cover. Five (5) new vegetation filter strips on the downgrade side of the proposed hike & bike trails are incorporated within the design of these improvements for mitigation of stormwater quality. The new total impervious cover of both existing conditions and proposed improvements is 82,384-sq. ft. (1.891-acres) which is 3.31% of the total acreage.

ATTACHMENT C

Current Site Plan of the Approved Project

Current Site Plan of the Approved Project
To be submitted when obtained from TCEQ files



SECTION E

Water Pollution Abatement Plan Application TCEQ-0584

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

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

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

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

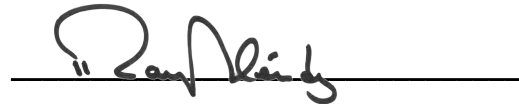
Signature

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

Print Name of Customer/Agent: Ray Méndez, PE, RGDP, LGPP

Date: 9/10/2025

Signature of Customer/Agent:



Regulated Entity Name: Gold Canyon Park

Regulated Entity Information

1. The type of project is:

- ☐ Residential: Number of Lots: _____
- ☐ Residential: Number of Living Unit Equivalents: _____
- ☐ Commercial
- ☐ Industrial
- ☒ Other: City of San Antonio Park

2. Total site acreage (size of property): 57.17 acres

3. Estimated projected population: N/A

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

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops		$\div 43,560 =$	0
Parking	0	$\div 43,560 =$	0
Other paved surfaces	15,345	$\div 43,560 =$	0.352
Total Impervious Cover	15,345	$\div 43,560 =$	0.352

Total Impervious Cover 0.352 $\div$ **Total Acreage** 57.17 $\times 100 =$ 0.62% **Impervious Cover**

5. ☒ **Attachment A - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
6. ☒ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

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

7. Type of project:

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

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

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

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

Width of R.O.W.: _____ feet.

$L \times W =$ _____ $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$ _____ acres.

10. Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

$L \times W =$ _____ $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$ _____ acres.

Pavement area _____ acres $\div$ R.O.W. area _____ acres $\times 100 =$ _____ % impervious cover.

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

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

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

<u>0</u> % Domestic	<u>0</u> Gallons/day
<u>0</u> % Industrial	<u>0</u> Gallons/day
<u>0</u> % Commingled	
<u>0</u> Gallons/day	
TOTAL gallons/day _____	

15. Wastewater will be disposed of by:

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

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

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

☒ Sewage Collection System (Sewer Lines):

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

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

☐ The SCS was previously submitted on _____.

☐ The SCS was submitted with this application.

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

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

☐ Existing.

☐ Proposed.

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

Site Plan Requirements

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

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

Site Plan Scale: 1" = 20'.

18. 100-year floodplain boundaries:

☒ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

☐ No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): _____

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

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

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

☐ There are 0 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.

☐ The wells are not in use and will be properly abandoned.

☐ The wells are in use and comply with 16 TAC §76.

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

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

☐ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

☒ No sensitive geologic or manmade features were identified in the Geologic Assessment.

☐ **Attachment D - Exception to the Required Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.

- 22. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. ☒ Areas of soil disturbance and areas which will not be disturbed.
- 24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. ☐ Locations where soil stabilization practices are expected to occur.
- 26. ☒ Surface waters (including wetlands).
☐ N/A
- 27. ☐ Locations where stormwater discharges to surface water or sensitive features are to occur.
☒ There will be no discharges to surface water or sensitive features.
- 28. ☒ Legal boundaries of the site are shown.

Administrative Information

- 29. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 30. ☒ Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

ATTACHMENT A

Factors affecting Water Quality

Construction

The materials listed below are anticipated to be present on-site during construction and as such may present a potential pollutant source (This is not an all-inclusive list):

- Concrete/Masonry
- Metal studs, Metal reinforcing bars, etc.
- Tar
- Fertilizers
- Petroleum based products
- Cleaning solvents/Detergents
- Wood

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

- Soil erosion due to the clearing of the site
- Oil, grease, fuel and hydraulic fluid contamination from equipment and vehicle drippings;
- Hydrocarbons from asphalt paving operations;
- Miscellaneous trash and litter from construction workers and material wrappings;
- Concrete truck washout.

Material management practices will be utilized to reduce the risk of spills, or other accidental exposure of the materials listed above to storm water runoff, including the following:

1. An effort shall be made to store only enough product required to complete the work as so defined in the approved construction documents.
2. All materials stored on-site shall be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
3. Products should be kept in their original containers with the original manufacturer's label.
4. Manufacturers' recommendations for proper use and disposal shall be followed.
5. Substances shall not be mixed with one another unless recommended by the manufacturer.
6. Whenever possible, all of a product shall be used before disposing of its respective container.
7. The site superintendent should inspect daily to ensure proper use and disposal of on-site materials.

Post-Construction

The materials listed below are anticipated to be present on-site after construction and as such may present a potential pollutant source (This is not an all-inclusive list):

- Trash and Debris (Litter)
- Discarded Food and Tobacco Products
- Potential sources of pollution that may reasonable be expected to affect the quality of storm
- Water discharges from the site after development includes:
- Oil, grease, fuel and hydraulic fluid contamination from vehicle drippings.
- Dirt and dust which may fall off vehicles, and
- Miscellaneous trash and litter.

Attachment B

Volume and Character of Stormwater

Stormwater runoff generated from rooftops, parking, sidewalks, and landscapes areas will be of a typical commercial site nature and may contain small amounts of oil, grease, suspended solids, fertilizers, and pesticides. Existing BMPs, both temporary and permanent, have been designed on the basis of the Technical Guidance manual to treat the required volume and character of stormwater runoff to remove at least 80% of the increased TSS generated by the development.

The runoff coefficient post development is varying from 0.39 for Forest or Range (grass cover>75%) (Runoff Coefficient (C-Value) - percentage - UDC Table 5.5.3A) to 0.97 for commercial areas (Business or commercial areas with 90% or more impervious cover – UDC Table 5.5.3A) in accordance with City of San Antonio Unified Development Code. Stormwater runoff generated by this development flows over the proposed 8-ft wide concrete trails into proposed vegetative filter strips. All stormwater leaving the proposed vegetative filter strips will flow into the existing natural lows to West Elm Creek. The following is a summary of stormwater runoff quantities for the existing and proposed conditions for the development:

Existing Condition: TC=9.00 min.; Q25 = 123.24 cfs ; C = 0.43

Proposed Condition: TC=9.00 min.; Q25 = 123.62 cfs ; C = 0.44

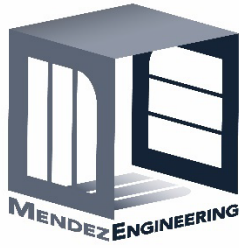
***Combined “C” value**

Please see enclosed drainage area map for detailed quantities of these flows located in the Temporary Storm Section (TCEQ – 0602) of this report under Attachment “G”.

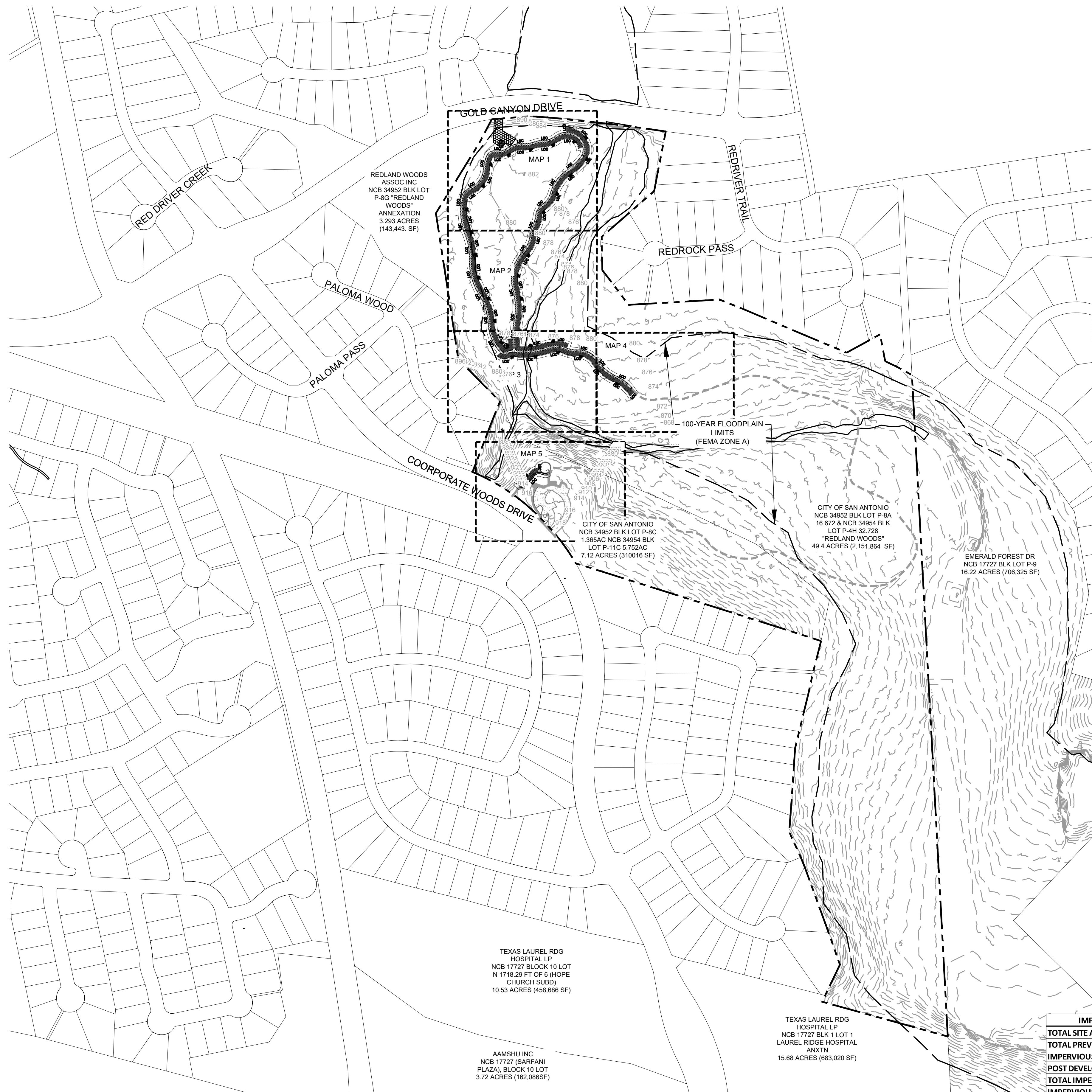
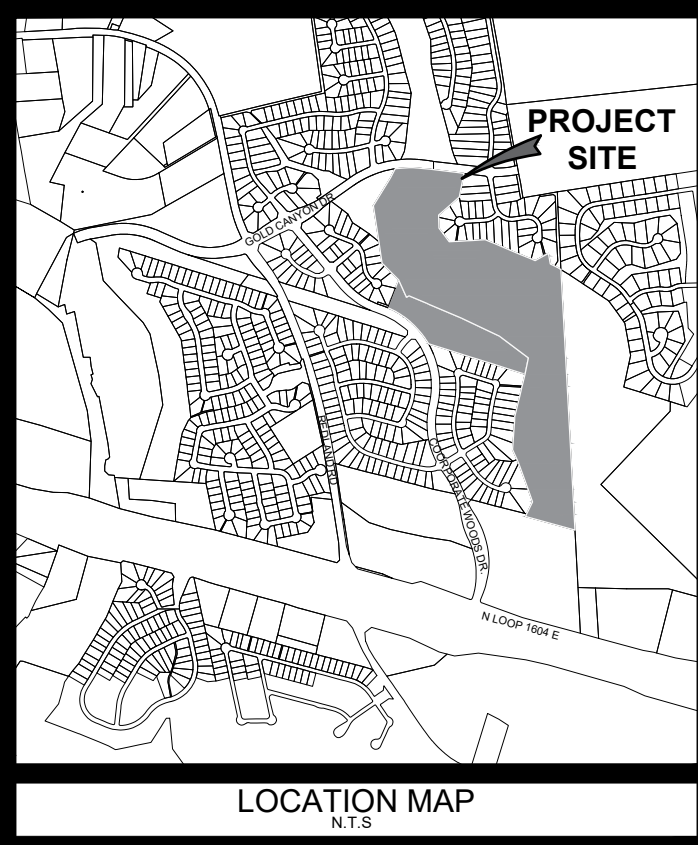
ATTACHMENT C

Suitability Letter from Authorized Agent

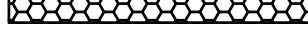
Not applicable to this project



Site Plan



LEGEND

PROPERTY LINE	
LOT LINE	
100 YEAR FLOOD PLAIN	
EXISTING CONTOUR	
EXISTING CONCRETE TRAIL	
EXISTING ASPHALT PARKING	
PROPOSED 8-FT WIDE CONCRETE TRAIL	
CONSTRUCTION ENTRANCE	
EXISTING WASHOUT PIT	
TEMPORARY SILT FENCE	
LIMITS OF CONSTRUCTION	
EXISTING FLOW LINE	

NOTES

1. SOIL DISTURBANCES WILL OCCUR OVER THE SITE UNLESS INDICATED OTHERWISE AS AN "AREA OF UNDISTURBED SOIL"
2. LOCATION OF MAJORS STRUCTURAL AND NONSTRUCTURAL CONTROLS ARE LABELED. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES (B.M.P.S)
3. SOIL STABILIZATION PRACTICES SHALL OCCUR OVER ALL DISTURBED AREAS WITH THE USE OF PAVEMENT, SIDEWALKS, GRASS SOD AND GRASS SEEDING.
4. THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES DIRECTLY TO SURFACE WATER
5. ALL STORMWATER DISCHARGING TO SENSITIVE FEATURES SHALL BE COVERED WITH GRASS SOD.
6. CONSTRUCTION ENTRANCE/ EXIT WASHOUT PITS, AND STAGING AREAS MUST BE PLACED AT A LOCATION WHERE THE PROJECT SITE IS BEING ACCESSED FOR CONSTRUCTION DURING VARIOUS PHASES

OWNER

CITY OF SAN ANTONIO
P.O.C.: PAT SCHNEIDER
P.O. BOX 839966
SAN ANTONIO, TX 78283
PATRICK.SCHNEIDER
@SANANTONIO.COM
210-207-8022

APPLICANT

MENDEZ ENGINEERING, PLLC
 P.O.C.: RAY MENDEZ P.E., CFM, RGDP
 888 ISOM RD, SUITE 200
 SAN ANTONIO, TX 78216
 RMENDEZ@MENDEZENGINEERING.COM
 210-802-0808

IMPERVIOUS COVER ANALYSIS	
TOTAL SITE ACREAGE (AC)	57.17
TOTAL PREVIOUSLY APPROVED IMPERVIOUS COVER (AC)	1.539
POST DEVELOPMENT IMPERVIOUS COVER (AC.)	0.352
TOTAL IMPERVIOUS COVER (AC.)	1.900
IMPERVIOUS COVER PERCENTAGE - PREVIOUSLY APPROVED (%)	2.69%
IMPERVIOUS COVER PERCENTAGE - NEW MODIFICATION / IMPROVEMENTS (%)	0.62%
TOTAL IMPERVIOUS COVER PERCENTAGE (%)	3.32%

GOLD CANYON PARK WPAP

SITE PLAN

AS-BUILTS
THIS SET OF AS-BUILTS WERE
PRODUCED IN ACCORDANCE TO
REDLINES PROVIDED BY THE
GENERAL CONTRACTOR TO THE
LANDSCAPE ARCHITECT AND
REPRESENTS THE EXISTING FIELD
CONDITIONS AT THE COMPLETION
OF THE PROJECT.
7/15/2024
ORIGINAL PLANS WERE SIGNED
AND SEALED ON 4/6/2023

MENDEZ ENGINEERING
 Registration # F-14070
 888 Isom Road, Suite 200,
 San Antonio, Texas 78216
 Office: 210-802-0808
www.MendezEngineering.com

2015 NE LOOP 410
SAN ANTONIO, TEXAS 78217
(210) 220-1400
M (210) 573-3740
TERRADESIGNGROUP.NET

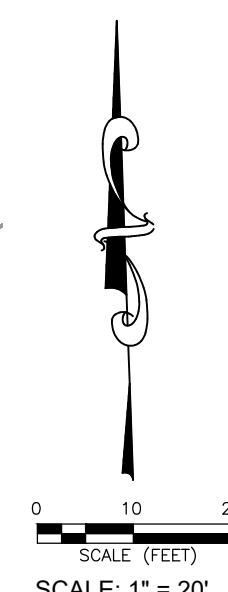
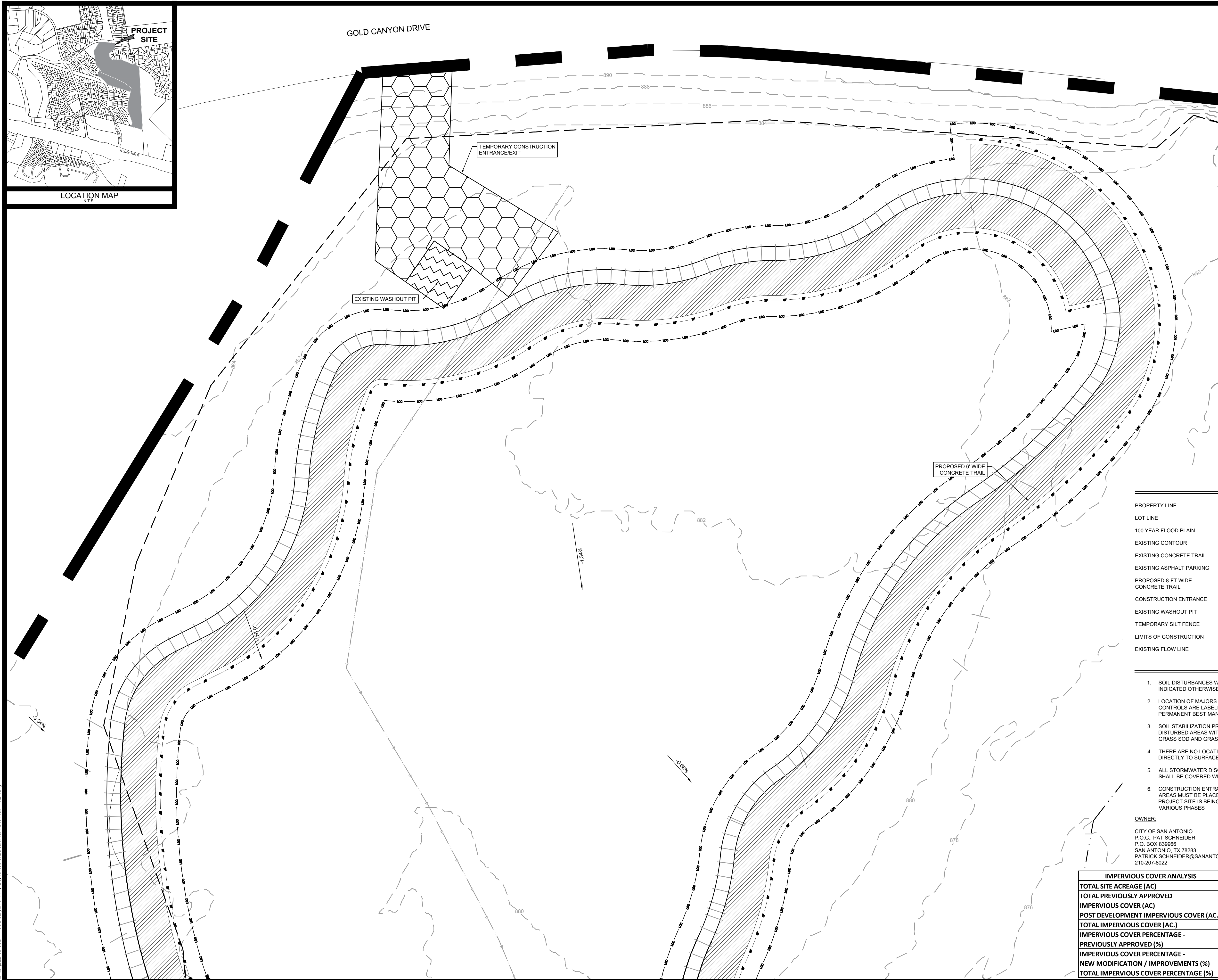
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DESIGN
GROUP
LANDSCAPE DESIGNERS

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DESIGNED BY:	AS/MR
DRAFTED BY:	AS/MR
CHECKED BY:	JJS

SHEET

EXH-3



PROPERTY LINE

LOT LINE

100 YEAR FLOOD PLAIN

EXISTING CONTOUR

EXISTING CONCRETE TRAIL

EXISTING ASPHALT PARKING

PROPOSED 8-FT WIDE CONCRETE TRAIL

CONSTRUCTION ENTRANCE

EXISTING WASHOUT PIT

TEMPORARY SILT FENCE

LIMITS OF CONSTRUCTION

EXISTING FLOW LINE

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<u>OWNER:</u>	<u>APPLICANT:</u>
CITY OF SAN ANTONIO P.O.C.: PAT SCHNEIDER P.O. BOX 839966 SAN ANTONIO, TX 78283 PATRICK.SCHNEIDER@SANANTONIO.COM 210-207-8022	MENDEZ ENGINEERING, PLLC P.O.C.: RAY MENDEZ P.E., CFM, RGDSP 888 ISOM RD, SUITE 200 SAN ANTONIO, TX 78216 RMENDEZ@MENDEZENGINEERING.CO 210-802-0808

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GOLD CANYON PARK WPAP	
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2015 NE LOOF 410
SAN ANTONIO, TEXAS 78217
TEL (210) 575-5700
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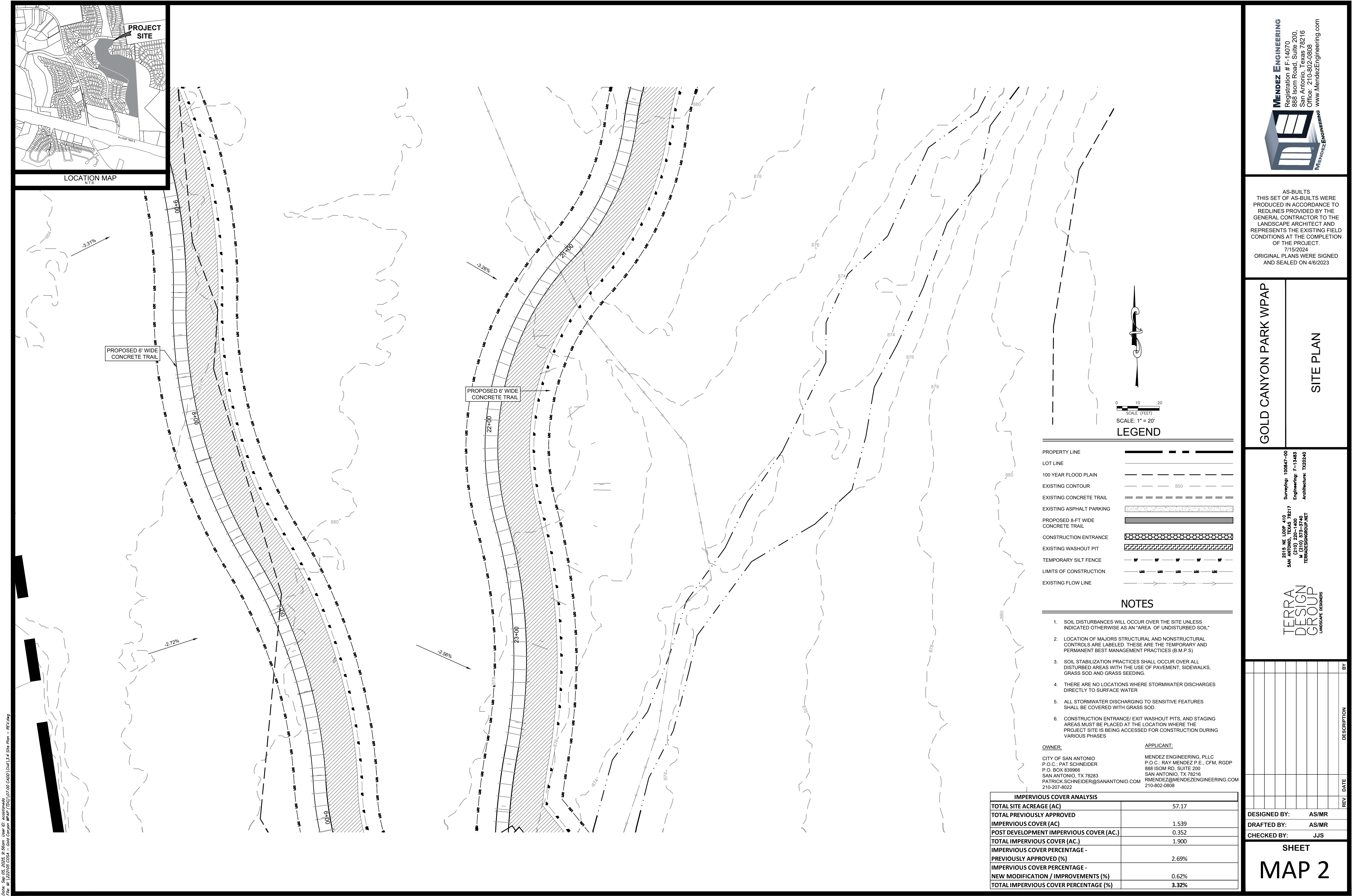
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DRAFTED BY:	AS/MR
CHECKED BY:	JJS
SHEET	
MAP 1	

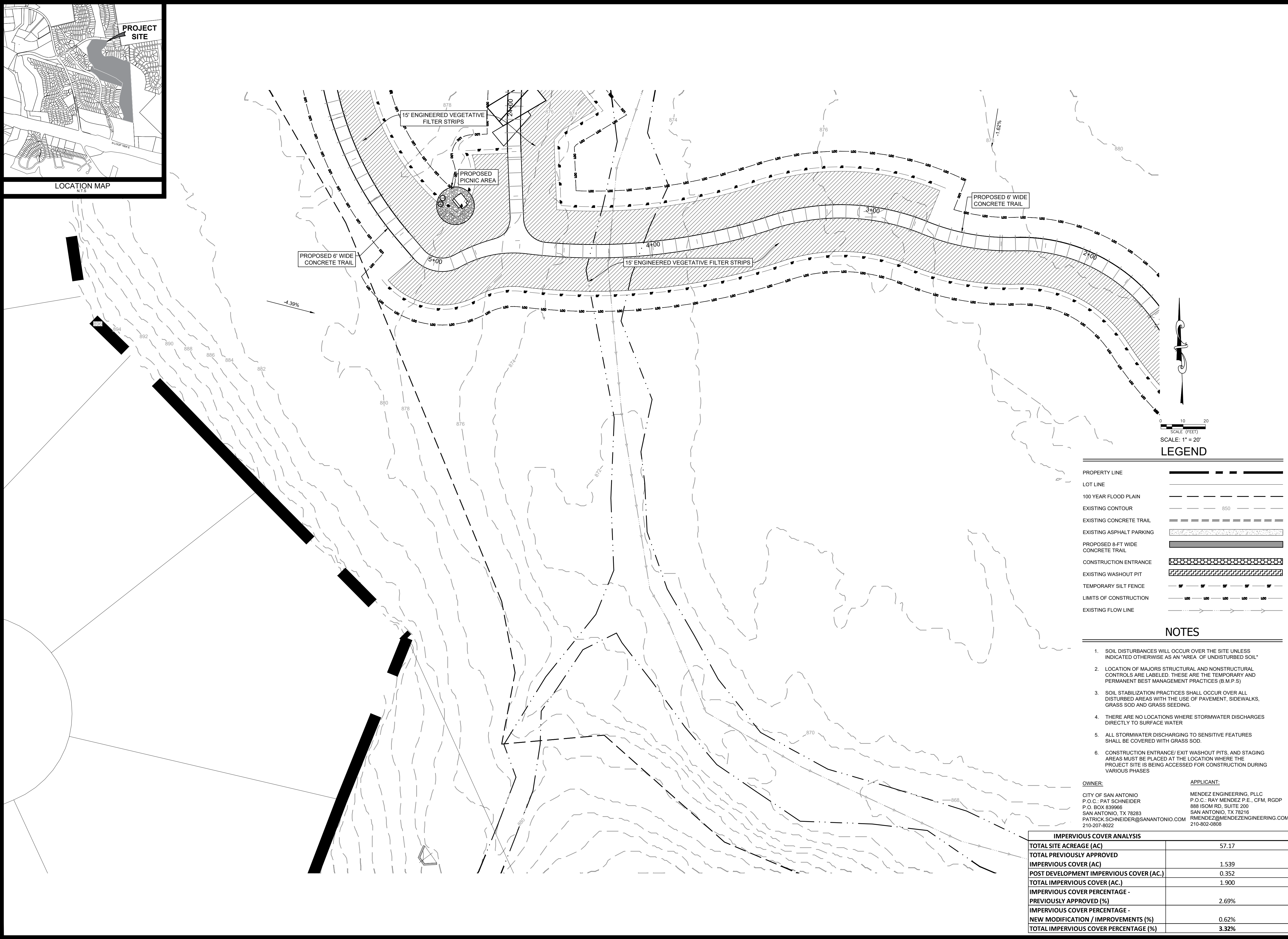
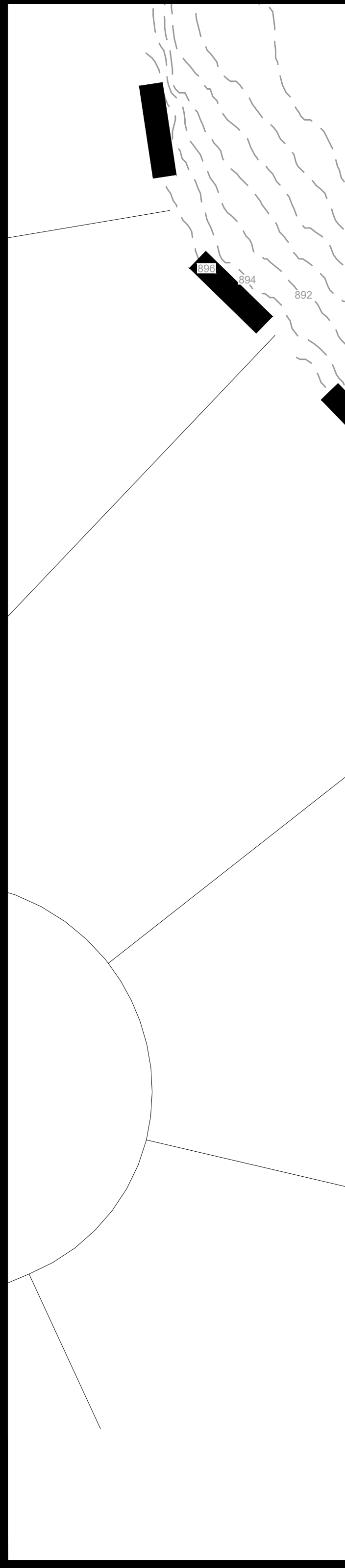


MENDEZ ENGINEERING

Registration # F-14070
 888 Isom Road, Suite 200,
 San Antonio, Texas 78216
 Office: 214-302-0688
www.MendezEngineering.com

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SITE PLAN

TERRA
DESIGN
GROUP
LANDSCAPE DESIGNERS

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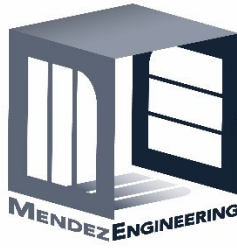
DESIGNED BY:	AS/MF
DRAFTED BY:	AS/MF
CHECKED BY:	JJS

MAP 3

ATTACHMENT D

Exception to the Required Geological Assessment

Not applicable to this project



SECTION F

Temporary Stormwater Section – Form 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.

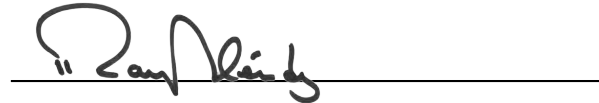
Signature

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: Ray Méndez, PE, RGDP, LGPP

Date: 9/10/2025

Signature of Customer/Agent:



Regulated Entity Name: Gold Canyon Park.

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

☐ The following fuels and/or hazardous substances will be stored on the site: _____

These fuels and/or hazardous substances will be stored in:

- ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

- ☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- ☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- ☒ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☐ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. ☒ **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: West Elm Creek

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

- 7. ☒ **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- ☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - ☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - ☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - ☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. ☐ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- ☐ **Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
- ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. ☒ **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. ☒ **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

ATTACHMENT A

SPILL RESPONSE ACTIONS

Spill Prevention and Control

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

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

Education

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

General Measures

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, and substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) (Spills should be covered and protected from stormwater runoff during rainfall to the extent that it doesn't compromise cleanup activities.
- (7) (Do not bury or wash spills with water.

- (8) (Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

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

Minor Spills

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

Semi-significant Spills

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

Spills should be cleaned up immediately:

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

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

More information on spill rules and appropriate responses is available on the TCEQ website at:

http://www.tceq.state.tx.us/response/spill_rules.html

Vehicle and Equipment Maintenance

- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately.
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- (4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters disposed of in trashcans or dumpsters can leak O3 and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
- (9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

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

Spill Response Actions

In the event that a spill of hydrocarbons or hazardous substances does occur, the contractor shall be required to maintain a sufficient stockpile of sand material in the staging area. This sand material shall be used to immediately isolate and provide containment of the spill by constructing dikes. Furthermore, this sand material shall act as an absorbent material that can be disposed of offsite and out of the Recharge Zone during clean-up operations. The contractor, in the event of a spill, shall also notify the owner who shall contact TCEQ. All contaminated soils resulting from an accidental release will be required to be removed and disposed of in accordance with all local, state and federal regulations.

ATTACHMENT B

Potential Sources of Contamination

Potential Source	Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle dripping.
Preventive Measure	Vehicle maintenance, when possible, will be performed within a construction staging area specified by the General Contractor.
Potential Source	Miscellaneous trash and litter from construction workers and material wrappings.
Preventive Measure	Trash containers will be placed throughout the site to encourage proper trash disposal.
Potential Source	Construction debris.
Preventive Measure	Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case-by-case basis.
Potential Source	Stormwater contamination from excess application of fertilizers, herbicides, and pesticides.
Preventive Measure	Fertilizers, herbicides, and pesticides will be applied only when necessary and in accordance with manufacturer's directions.
Potential Source	Soil and mud from construction vehicle tires as they leave the site.
Preventive Measure	A temporary construction entrance/exit shall be utilized as vehicles leave the site. Any soil, mud, etc. carried from the project onto public roads shall be cleaned up within 24 hours.
Potential Source	Sediment from soil, sand, gravel and excavated materials stockpiled on site.
Preventive Measure	Silt fence shall be installed on the down gradient side of all stockpiled materials. Reinforced rock berms shall be installed at all downstream discharge locations.
Potential Source	Portable toilet spill
Preventive Measure	Toilets on the site will be emptied on a regular basis by the contracted toilet company.

ATTACHMENT C

Sequence of Major Activities

Sequence Item	Description	Approximate Acres Disturbed
1.	Clearing	1.331 Ac.
2.	Set Temporary BMP's	0.0904 Ac.
3.	Site Grading & Building Construction & Final Site	1.331 Ac.
4.	Top Soil & Landscaping	1.331 Ac.

ATTACHMENT D

Temporary Best Management Practices and Measures

The TBMP'S and measures utilized for the proposed project to prevent pollution of storm water, groundwater, and surface water during the construction phase are the following:

1. Temporary Construction Entrance/Exit – A stabilized pad of crushed stone located at any point where traffic will be entering or leaving the construction site from a public R.O.W., street, alley, sidewalk or parking area. It shall be a minimum of 50 feet long, 12 feet wide and 8 inches thick. The rock shall be 4 to 8 inches in size.
2. Concrete Washout Areas – A pit containment area with a 10 mil plastic lining with a berm and sand bags to prevent or reduce the discharge of pollutants from concrete waste shall be constructed in an area readily accessible to construction traffic and at least 50 feet away from any sensitive features, storm drains, open ditches or water bodies.
3. Silt Fence – A barrier consisting of geotextile fabric supported by metal posts to prevent soil and sediment loss from a site. Silt fences shall be installed on the down gradient side of the proposed areas to be disturbed that have drainage area of 2 or less acres.
4. Rock Berms – A structure of 3 to 5 inches diameter rock secured with a woven wire sheath to serve as a check dam in areas of concentrated flow, to intercept sediment-laden runoff, detain the sediment and release the water in sheet flow.
5. Temporary Seeding – Temporary seeding of disturbed areas shall be performed if disturbed areas are expected to have no construction activity for a period of at least 21 days.

Sequence of installation during construction process

1. The Temporary Construction Entrance/Exit shall be installed prior to disturbing any soil except at the location of the Temporary Construction Entrance/Exit. It shall stay in place and be maintained until the end of the infrastructure construction.
2. Silt Fence will be installed along the down gradient side of the proposed site prior to disturbing any soil. It shall be in place and be maintained until site has been properly revegetated.
3. Rock Berms – Rock berms shall be installed around the perimeter of the project at natural low points following grading of the site and shall be removed once grading to the

on-site stormwater drainage system with bagged gravel inlet filters in sump is complete. Rock berms will also be utilized at the outlet of the pond while it is being constructed.

4. Concrete washout pits shall be installed prior to any concrete work to be done on site. It shall remain on site until all concrete work has been completed and hardened concrete shall be broken up, removed and disposed of properly. Materials for the pit shall be removed from the site and also be disposed of properly. Any depressions or ground disturbance due to removal of pit area shall be backfilled and repaired.
5. Temporary Seeding shall be installed in areas which are considered as final grades and areas will not be covered by pavements, building or other structures. Seeding shall also be done in graded areas where there is potential for erosion on steep slopes.

Upgradient Surface water, Groundwater, and Storm water

Up-gradient stormwater runoff from developed communities (north, east and west) of the site flow through their respective drainage structures into West Elm Creek and will not flow across the site.

Additionally, if any up-gradient stormwater runoff from undeveloped land to the area of interest is developed, it will flow across their proposed development into West Elm Creek through their respective drainage structures. Upstream developed areas should have accounted for stormwater pollution, therefore implementing permanent BMPs. Undeveloped land up-gradient to the site will be required to comply with Texas Commission on Environmental Quality (TCEQ) regulations for development over the Edwards Aquifer Recharge Zone.

Onsite Surface water, Groundwater, and Storm water

Temporary BMPs utilized on the proposed project site to prevent pollution of onsite surface water, groundwater, and storm water are the silt fences acting as barriers to prevent pollution of stormwater. Permanent BMP's will treat stormwater that originates onsite in areas that will remain impervious.

Prevention of Pollutants Entering Surface Streams, Sensitive Features, and the Aquifer

Temporary BMPs utilized on the proposed project site to prevent pollution of surface streams, sensitive features, and the aquifer are temporary construction entrance/exit, silt fences, and rock berms. The construction entrance/exit provides a stable exit from the construction site and keeps sediment and mud off public roads. The other TBMPs delineated act in like manner as previously described to protect surface streams, sensitive features, and the aquifer.

Maintenance of Flow to Naturally-Occurring Sensitive Features

There are no sensitive features.

ATTACHMENT E

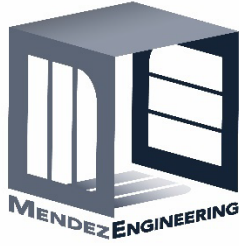
Request to Temporarily Seal a Feature (if requested)

Not applicable to this project

ATTACHMENT F

Structural Practices

Runoff discharge of pollutants from exposed areas of the site will be limited through the utilization of temporary BMPs. Prior to leaving the site, flows containing pollutants discharge will be treated by a series of Silt Fences to limit the amount of pollutants leaving the site. Temporary Construction Entrance/Exit will be located along Corporate Woods Dr. to provide a stable entrance/exit condition from the construction site to keep mud and sediment off public roadways.



ATTACHMENT G

Drainage Area Map

D:\City_Site_06_0925_10_Schp_1\New_ID_schp\attach\TSS\07.00 CAD\01 Civil\4.7 Drainage Map - REV.dwg
File M:\222025 C03-A - Gold Canyon WPA\ (TSS) 07.00 CAD\01 Civil\4.7 Drainage Map - REV.dwg

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Gold Canyon Park
Date Prepared: 9/4/2025

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

1. The Required Load Reduction for the total project

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_d = 27.2(A_p \times P)$

where:

L_d TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_p = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

County =	DeSoto
Total project area included in plan =	97.17 acres
Predevelopment impervious area within the limits of the plan =	0.37 acres
Total post-development impervious area within the limits of the plan =	1.00 acres
Total post-development impervious cover fraction =	0.03
P =	30 inches

L_d TOTAL PROJECT = 1248 lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 12

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

Drainage Basin/Outfall Area No. =	1
Total drainage basin/outfall area =	2.81 acres
Predevelopment impervious area within drainage basin/outfall area =	0.00 acres
Post-development impervious area within drainage basin/outfall area =	0.12 acres
Post-development impervious fraction within drainage basin/outfall area =	0.02
L_d lbs./acre =	98

3. Indicate the proposed BMP Code for this basin

Proposed BMP =	Vegetated Filter Strips
Removal efficiency =	85 percent

Aquatic Cartridge Filter
Biosorption
Cortech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Infiltration
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortexes
Weir Basin
Weir Vault

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

RG-348 Page 3-33 Equation 3.7: $L_d = (\text{BMP efficiency}) \times P \times (A_p \times 34.6 + A_p \times 0.54)$

where:

A_p = Total On-Site drainage area in the BMP catchment area
 A_p = Impervious area proposed in the BMP catchment area
 A_p = Previous area remaining in the BMP catchment area
 L_d = TSS Load removed from this catchment area by the proposed BMP

$L_d = 165$ lbs

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

16. Vegetated Filter Strips

Designed as Required in RG-348

Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips
The 80% removal is provided when the contributing drainage area does not exceed 75 feet (direction of flow) as the sheet flow leaving the impervious cover is directed across 16 feet of engineered filter strips with maximum slope of 20%
across 60 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

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1. The Required Load Reduction for the total project

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_d = 27.2(A_p \times P)$

where:

L_d TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_p = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

County =	DeSoto
Total project area included in plan =	97.17 acres
Predevelopment impervious area within the limits of the plan =	0.76 acres
Total post-development impervious area within the limits of the plan =	1.00 acres
Total post-development impervious cover fraction =	0.03
P =	30 inches

L_d TOTAL PROJECT = 830 lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 12

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

Drainage Basin/Outfall Area No. =	2
Total drainage basin/outfall area =	8.60 acres
Predevelopment impervious area within drainage basin/outfall area =	0.00 acres
Post-development impervious area within drainage basin/outfall area =	0.18 acres
Post-development impervious fraction within drainage basin/outfall area =	0.02
L_d lbs./acre =	147

3. Indicate the proposed BMP Code for this basin

Proposed BMP =	Vegetated Filter Strips
Removal efficiency =	85 percent

Aquatic Cartridge Filter
Biosorption
Cortech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Infiltration
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortexes
Weir Basin
Weir Vault

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

RG-348 Page 3-33 Equation 3.7: $L_d = (\text{BMP efficiency}) \times P \times (A_p \times 34.6 + A_p \times 0.54)$

where:

A_p = Total On-Site drainage area in the BMP catchment area
 A_p = Impervious area proposed in the BMP catchment area
 A_p = Previous area remaining in the BMP catchment area
 L_d = TSS Load removed from this catchment area by the proposed BMP

$L_d = 273$ lbs

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

16. Vegetated Filter Strips

Designed as Required in RG-348

Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips
The 80% removal is provided when the contributing drainage area does not exceed 75 feet (direction of flow) as the sheet flow leaving the impervious cover is directed across 16 feet of engineered filter strips with maximum slope of 20%
across 60 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Gold Canyon Park
Date Prepared: 9/4/2025

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1. The Required Load Reduction for the total project

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_d = 27.2(A_p \times P)$

where:

L_d TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_p = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

County =	DeSoto
Total project area included in plan =	97.17 acres
Predevelopment impervious area within the limits of the plan =	0.76 acres
Total post-development impervious area within the limits of the plan =	1.00 acres
Total post-development impervious cover fraction =	0.03
P =	30 inches

L_d TOTAL PROJECT = 830 lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 12

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

Drainage Basin/Outfall Area No. =	3
Total drainage basin/outfall area =	9.10 acres
Predevelopment impervious area within drainage basin/outfall area =	0.30 acres
Post-development impervious area within drainage basin/outfall area =	0.17 acres
Post-development impervious fraction within drainage basin/outfall area =	0.03
L_d lbs./acre =	33

3. Indicate the proposed BMP Code for this basin

Proposed BMP =	Vegetated Filter Strips
Removal efficiency =	85 percent

Aquatic Cartridge Filter
Biosorption
Cortech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Infiltration
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortexes
Weir Basin
Weir Vault

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

RG-348 Page 3-33 Equation 3.7: $L_d = (\text{BMP efficiency}) \times P \times (A_p \times 34.6 + A_p \times 0.54)$

where:

A_p = Total On-Site drainage area in the BMP catchment area
 A_p = Impervious area proposed in the BMP catchment area
 A_p = Previous area remaining in the BMP catchment area
 L_d = TSS Load removed from this catchment area by the proposed BMP

$L_d = 323$ lbs

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

16. Vegetated Filter Strips

Designed as Required in RG-348

Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips
The 80% removal is provided when the contributing drainage area does not exceed 75 feet (direction of flow) as the sheet flow leaving the impervious cover is directed across 16 feet of engineered filter strips with maximum slope of 20%
across 60 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Gold Canyon Park
Date Prepared: 9/4/2025

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1. The Required Load Reduction for the total project

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_d = 27.2(A_p \times P)$

where:

L_d TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_p = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

County =	DeSoto
Total project area included in plan =	97.17 acres
Predevelopment impervious area within the limits of the plan =	0.76 acres
Total post-development impervious area within the limits of the plan =	1.00 acres
Total post-development impervious cover fraction =	0.03
P =	30 inches

L_d TOTAL PROJECT = 830 lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 12

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

Drainage Basin/Outfall Area No. =	4
Total drainage basin/outfall area =	1.03 acres
Predevelopment impervious area within drainage basin/outfall area =	0.16 acres
Post-development impervious area within drainage basin/outfall area =	0.36 acres
Post-development impervious fraction within drainage basin/outfall area =	0.31
L_d lbs./acre =	8

3. Indicate the proposed BMP Code for this basin

Proposed BMP =	Vegetated Filter Strips
Removal efficiency =	85 percent

Aquatic Cartridge Filter
Biosorption
Cortech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Infiltration
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortexes
Weir Basin
Weir Vault

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

RG-348 Page 3-33 Equation 3.7: $L_d = (\text{BMP efficiency}) \times P \times (A_p \times 34.6 + A_p \times 0.54)$

where:

A_p = Total On-Site drainage area in the BMP catchment area
 A_p = Impervious area proposed in the BMP catchment area
 A_p = Previous area remaining in the BMP catchment area
 L_d = TSS Load removed from this catchment area by the proposed BMP

$L_d = 163$ lbs

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

16. Vegetated Filter Strips

Designed as Required in RG-348

Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips
The 80% removal is provided when the contributing drainage area does not exceed 75 feet (direction of flow) as the sheet flow leaving the impervious cover is directed across 16 feet of engineered filter strips with maximum slope of 20%
across 60 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Gold Canyon Park
Date Prepared: 9/4/2025

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

1. The Required Load Reduction for the total project

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_d = 27.2(A_p \times P)$

where:

L_d TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_p = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

County =	DeSoto
Total project area included in plan =	97.17 acres
Predevelopment impervious area within the limits of the plan =	0.76 acres
Total post-development impervious area within the limits of the plan =	1.00 acres
Total post-development impervious cover fraction =	0.03
P =	30 inches

L_d TOTAL PROJECT = 830 lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 12

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

Drainage Basin/Outfall Area No. =	5
Total drainage basin/outfall area =	1.15 acres
Predevelopment impervious area within drainage basin/outfall area =	0.36 acres
Post-development impervious area within drainage basin/outfall area =	0.36 acres
Post-development impervious fraction within drainage basin/outfall area =	0.31
L_d lbs./acre =	8

3. Indicate the proposed BMP Code for this basin

Proposed BMP =	Vegetated Filter Strips
Removal efficiency =	85 percent

Aquatic Cartridge Filter
Biosorption
Cortech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Infiltration
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortexes
Weir Basin
Weir Vault

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

RG-348 Page 3-33 Equation 3.7: $L_d = (\text{BMP efficiency}) \times P \times (A_p \times 34.6 + A_p \times 0.54)$

where:

A_p = Total On-Site drainage area in the BMP catchment area
 A_p = Impervious area proposed in the BMP catchment area
 A_p = Previous area remaining in the BMP catchment area
 L_d = TSS Load removed from this catchment area by the proposed BMP

$L_d = 329$ lbs

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

16. Vegetated Filter Strips

Designed as Required in RG-348

Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips
The 80% removal is provided when the contributing drainage area does not exceed 75 feet (direction of flow) as the sheet flow leaving the impervious cover is directed across 16 feet of engineered filter strips with maximum slope of 20%
across 60 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20

TERRA
DESIGN
GROUP
LANDSCAPE DESIGNERS

2015 NE LOOP 410
SUITE 200
DALLAS, TEXAS 75244
M (214) 573-3740
TERRADESIGNGROUP.NET

Surveying: 100847-00
Professional Seal
Engineering: E-13483
Architecture: TX20240

DESIGNED BY: AS/MR
DRAFTED BY: AS/MR
CHECKED BY: JJS

EXH-5

ATTACHMENT G
TSS CALCULATIONS

GOLD CANYON PARK WPAP

AS-BUILTS
THIS SET OF AS-BUILTS WERE
PRODUCED IN ACCORDANCE TO
REDLINES PROVIDED BY THE
GENERAL CONTRACTOR TO THE
LANDSCAPE ARCHITECT AND
REPRESENTS THE EXISTING FIELD
CONDITIONS AT THE COMPLETION
OF THE PROJECT.
7/15/2024
ORIGINAL PLANS WERE SIGNED
AND SEALED ON 4/8/2023

BY
REV
DATE
DESCRIPTION

AS-BUILTS
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7/15/2024
ORIGINAL PLANS WERE SIGNED
AND SEALED ON 4/8/2023

GOLD CANYON PARK WPAP
ATTACHMENT G
TSS CALCULATIONS

DESIGNED BY:	AS/MR
DRAFTED BY:	AS/MR
CHECKED BY:	JJS
EXH-5	
ATTACHMENT G	
TSS CALCULATIONS	
BY	
REV	
DATE	
DESCRIPTION	

ATTACHMENT H

Temporary Sediment Pond Plans and Calculations

Not applicable to this project

ATTACHMENT I

Inspection and Maintenance for BMPs

Inspections

Designated and qualified person(s) provided by the permittee shall inspect Pollution Control Measures every seven (7) calendar days and within twenty-four (24) hours after a storm event greater than 0.5 inches of rainfall. An inspection report that summarizes the scope of the inspection, date of inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of stormwater TPDES data for a period of three years after the date of inspection.

As a minimum, the inspector shall observe:

- 1) significant disturbed areas for evidence of erosion
- 2) storage areas for evidence of leakage from the exposed stored materials
- 3) structural controls (rock berm, silt fences, etc.) for evidence of failure or excess silting (over six inches deep)
- 4) vehicle exit point for evidence of off-site sediment tracking
- 5) vehicle storage areas for signs of leaking equipment or spills
- 6) concrete truck rinse-out pit for signs of potential failure
- 7) general site cleanliness

Deficiencies noted during the inspection will be corrected and documented within seven (7) calendar days following the inspection or before the next anticipated storm event if practicable.

Temporary Construction Entrance and Exits

- 1) The entrance should be maintained in a condition, which will prevent tracking or following 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 on to public rights-of-ways should be removed immediately by contractor.
- 3) When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- 4) When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- 5) All sediment should be prevented from entering ant storm drain, ditch, or water course by using approved methods

Silt Fence

- 1) Inspect all fencing weekly, and after any rainfall.
- 2) Remove sediment when buildup reaches 6 inches.
- 3) Replace any torn fabric or install a second line of fencing parallel to the torn section.
- 4) Replace or repair any sections crushed or collapsed 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.

Rock Berm / High Service Rock Berm

1. Inspections should be made weekly and after each rainfall by the responsible party.
2. Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt of in an approved manner.
3. Repair any loose wire sheathing.
4. The berm should be reshaped as needed during inspection.
5. The berm should be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
6. The rock berm should be left in place until all upstream areas are stabilized and accumulated silt removed.

Concrete Washout Pit Area

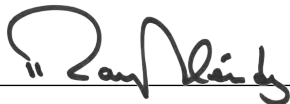
1. Each material making up pit area shall be inspected for any damage.
2. Plastic lining shall be inspected periodically to ensure no holes, tears or other defects are observed that might compromise the impermeability of the material.
3. Remove accumulated hardened concrete by breaking up and disposing of properly and if necessary, replacing plastic lining.

Temporary Seeding

1. Temporary vegetation should be inspected weekly and after each rain event to locate and repair any erosion.
2. Erosion from storms or other damage should be repaired as soon as practical by re-grading the area and applying new seed.
3. If vegetated cover is less than 80%, the area should be reseeded.

Documentation Procedures

1. A copy of the inspection report is located on the following page.
2. The inspection report must be maintained on site at all times.
3. The inspection report is incorporated as part of the WPAP. The contractor is responsible for completing and updating the form in compliance with TCEQ rules.



Signature

9/10/2025

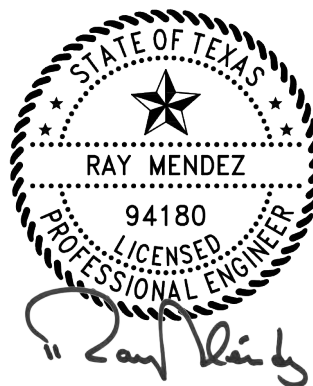
Date

Ray Méndez, PE, RGDP, LGPP

Print Name

President

Title



Attachment I

Gold Canyon Park

Inspection Report

Pollution Prevention Measure		Inspected	Corrective Action	
			Description	Date Completed
Silt Fence	Inspections			
	Fencing			
	Sediment Removal			
	Torn Fabric			
	Crushed/Collapsed Fencing			
Construction Entrance/Exit	Inspections			
	Additional Top Dressing			
	Repair/Cleanout			
	Sediment Removed Immediately			
Concrete Washout Pit	Inspections			
	Plastic Lining			
	Berm / Sand Bags			
	Accumulated Concrete / Removal			

Inspector's Name

Inspector's Signature

Name of Owner/Operator

Date

BMP Inspection Report - Project Construction Activity Milestone Dates

Date when major site grading activities begin:

<u>Construction Activity</u>	<u>Date</u>

Dates when construction activities temporarily or permanently cease on all or a portion of the project:

<u>Construction Activity</u>	<u>Date</u>

Date when stabilization measures are initiated:

<u>Stabilization Activity</u>	

ATTACHMENT J

Schedule of Interim and Permanent Soil Stabilization Practices

1. 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 temporarily or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site 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.
2. Permanent seeding of individually disturbed areas shall be performed when infrastructure construction has been completed.
3. Permanent sodding and mulching of landscape areas shall occur at or near the completion of the project.
4. During construction, contractors shall, to the maximum extent possible, limit their construction activities to areas of construction as noted on the plans in an attempt to preserve as much natural vegetation as possible.

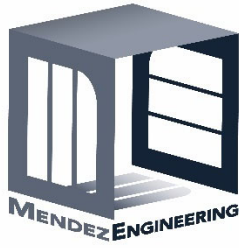
Seeding & Mulching Specifications

1. All seed must meet requirements of the Texas Seed Law including the labeling requirements. These labels shall show purity, germination, name and type of seed. Seed furnished shall be of the previous season's crop for the date of the project, and the date of analysis shown on each bag shall be within nine (9) months of the time of use on the project. Bermuda grass shall be hulled and treated and have a purity of 95% and germination of no less than 90%. Each variety of seed shall be furnished and delivered in separate bags or containers. A sample of each variety of seed shall be furnished for analysis and testing when directed by the Owner.
2. Annual Rye grass will be free of Johnson grass, field bindweed, dodder seed, and free of other seed to the limits allowable under the Federal Seed Act and applicable Texas Seed Law. Annual Rye grass will be added into slurry between October 1 through March 15.
3. Wood Cellulose Fiber Mulch. Wood cellulose fiber mulch shall be natural cellulose fiber mulch produced from grinding clean, whole wood chips, or fiber produced from ground newsprint with a labeled ash content not to exceed 7%. The mulch shall be designed for use in conventional mechanical planting, hydraulic planting of seed or hydraulic mulching of grass seed, either alone or with fertilizer and other additives. The mulch shall be that when applied, the material shall form a strong, moisture-retaining mat without the need of an asphalt binder. The mulch material will also be dyed with a green color to assist in determining coverage and to provide an immediate pleasing

appearance. The wood cellulose fiber is also required to be dispersed rapidly in water to form homogeneous slurry and remain in such state when agitated in the hydraulic mulching unit with specified materials.

4. Straw Mulch or Hay Mulch. Straw mulch shall be oat, wheat, or rice straw. Hay mulch shall be prairie grass, Bermuda grass or other hay as approved by the Owner. The straw mulch or hay mulch shall be free of Johnson grass or other noxious weeds and foreign materials. It shall be kept in a dry condition and shall not be molded or rotted.

Optimum Planting Dates	Common Names	Rate, lbs./acre
February 1 – May 1	Bermuda Grass	1.5
September 1 – November 30	Tall Fescue	4.0
	Oats	21.0*
	Wheat (Red, Winter)	30.00
	Hairy Vetch	8.0
September 1 – November 30		
May 1 – August 31	Foxtail Millet	30.0



SECTION G

Permanent Stormwater Section – Form TCEQ-0600

Permanent Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(li), (E), and (5), Effective June 1, 1999

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

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

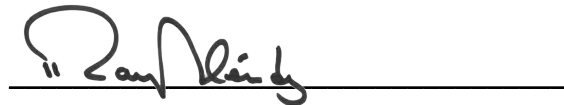
Signature

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

Print Name of Customer/Agent: Ray Méndez, PE, RGDP, LGPP

Date: 9/10/2025

Signature of Customer/Agent



Regulated Entity Name: Gold Canyon Park

Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

1. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☐ N/A
2. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

☐ N/A

3. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

☐ N/A

4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.

☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.

☒ The site will not be used for low density single-family residential development.

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

☐ **Attachment A - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

☒ The site will not be used for multi-family residential developments, schools, or small business sites.

6. ☒ **Attachment B - BMPs for Upgradient Stormwater.**

- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
 - ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
 - ☒ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7. ☒ **Attachment C - BMPs for On-site Stormwater.**
- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
 - ☐ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8. ☐ **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- ☒ N/A
9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- ☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
 - ☐ **Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. ☒ **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- ☒ Design calculations (TSS removal calculations)
 - ☒ TCEQ construction notes
 - ☒ All geologic features
 - ☒ All proposed structural BMP(s) plans and specifications
- ☐ N/A

11. ☒ **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
 - ☒ Signed by the owner or responsible party
 - ☒ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
 - ☒ A discussion of record keeping procedures
- ☐ N/A
12. ☐ **Attachment H - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
- ☒ N/A
13. ☐ **Attachment I - Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.
- ☒ N/A

Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after construction is complete.

14. ☒ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- ☐ N/A
15. ☒ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- ☐ N/A

ATTACHMENT A
20% or Less Impervious Cover Waiver

Not applicable to this project

Attachment B

BMPs for Upgradient Stormwater

Up-gradient stormwater runoff from developed communities (north, east and west) of the site flow through their respective drainage structures into West Elm Creek and will not flow across the site.

Additionally, if any up-gradient stormwater runoff from undeveloped land to the area of interest is developed, it will flow across their proposed development into West Elm Creek through their respective drainage structures. Upstream developed areas should have accounted for stormwater pollution, therefore implementing permanent BMPs. Undeveloped land up-gradient to the site will be required to comply with Texas Commission on Environmental Quality (TCEQ) regulations for development over the Edwards Aquifer Recharge Zone.

Attachment C

BMPs for On-Site Stormwater

The proposed site will utilize 15-ft wide Vegetative Filter Strips (VFS) for 15-ft wide along the path as shown on Site Plan. The proposed best management practices (BMPs) will treat at least 80% of the increase in total suspended solids (TSS) for the site. The proposed VFS have been designed in accordance with the TCEQ Technical Guidance Manual (TGM) RG-348 (2005).

Attachment D

BMPs for Surface Streams

Not applicable to this project

Attachment E
Request to Seal Features

Not applicable until Geological Assessment is performed

Attachment F

Construction Plans

The construction plans and design calculations for the proposed permanent BMPs and measures for the proposed project to have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer and/or Landscape Architect. The design calculations, TCEQ Construction Notes, all man-made or naturally occurring geological features, all proposed structural measures, and appropriate details are shown on the construction plans.

The construction plans are enclosed following this page.

GENERAL NOTES:

1. CONTRACTOR TO LAYOUT, USING COORDINATE DATA PROVIDED, AND STAKE ALL HARDSCAPE ELEMENTS PRIOR TO ANY CONSTRUCTION TO BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING FOR THE ENTIRE PROJECT. THE OWNER SHALL PROVIDE HORIZONTAL AND VERTICAL CONTROL POINTS. PRELIMINARY TRAIL ALIGNMENT SHALL BE ACCOMPLISHED UTILIZING A GPS SYSTEM AND PROVIDING STAKING ALONG THE PROPOSED TRAIL ROUTE 50-0" INTERVALS. THIS ROUTE WILL BE REVIEWED BY THE OWNER AND LANDSCAPE ARCHITECT FOR ADJUSTMENTS AND FINAL APPROVAL. FINAL STAKING WILL THEN BE PERFORMED BY A REGISTERED PROFESSIONAL LAND SURVEYOR OR PROFESSIONAL ENGINEER ACCIDENTALLY LAYING OUT THE TRAIL WITH TRUE ARCS AND TANGENTS. THE CONTRACTOR WILL BE PROVIDED SITE LAYOUT SHEETS IN AUTOCAD FORMAT TO FACILITATE LAYOUT.

3. THE CITY OF SAN ANTONIO SHALL PROVIDE ALL CONSTRUCTION MATERIAL TESTING. OWNER WILL PAY FOR ALL NECESSARY TESTING SELECTED BY LANDSCAPE ARCHITECT AND THE ENGINEER, BUT RE-TESTING SHALL BE CHARGED TO THE CONTRACTOR FROM HIS MONTHLY ESTIMATES, AND NO ADDITIONAL COMPENSATION WILL BE MADE OR ALLOWED FOR REWORKING THE NECESSARY DEFECTIVE WORK NOT MEETING THE SPECIFIED WORK OF THE PLANS AND SPECIFICATIONS. ANY RE-TESTING REQUIRED BY NO-PASSING RESULTS SHALL BE PAID FOR BY THE CONTRACTOR AND SHALL BE DEDUCTED FROM THE CONTRACT AMOUNT.

4. THE CONTRACTOR SHALL DO ALL NECESSARY EXCAVATION, TRENCHING, DEWATERING, DEMOLITION, GRADING, BACKFILL, ETC., TO COMPLETE THE PROJECT. SUCH COSTS SHALL BE SUBSIDIARY TO THE BID ITEMS IN THE PROPOSAL. ALL EXCAVATION IS UNCLASSIFIED.

5. ALL TREES, PLANTS, GRASS AND SHRUBS, EXCEPT THOSE WHICH WILL BE AFFECTED BY CONSTRUCTION SHALL BE PROTECTED AT ALL TIMES. THE AREAS IN AND ADJACENT, TO THE CONSTRUCTION SITE SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS AFTER NECESSARY FINE GRADING IS COMPLETED. THE CONTRACTOR SHALL PROVIDE NEW GRASS OF THE SAME TYPE REMOVED TO RESTORE DAMAGED AREAS. ONLY QUALITY SANDY LOAM, TOPSOIL SHALL BE USED FOR FILLING THE TOP FOUR INCHES OF THOSE AREAS DAMAGED OR FILLED.

6. DAMAGES DONE TO EXISTING UTILITIES, POWER POLES, FENCES, SIGNS, MAILBOXES, DRIVEWAYS, CULVERTS, PAVEMENT, DRAINAGE SYSTEMS, ETC. SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER, AND SUCH COSTS SHALL BE SUBSIDIARY TO THE VARIOUS UNIT ITEMS IN THE PROPOSAL.

7. THE CONTRACTOR SHALL BE LIMITED ONLY TO EXISTING ROW FOR OPERATIONS AND/OR EASEMENTS PROVIDED BY THE CITY OF SAN ANTONIO. THE CONTRACTOR AT NO EXTRA COST TO THE OWNER WILL CORRECT ANY DAMAGES DONE TO PROPERTY OUTSIDE THESE DESIGNATED WORK AREAS TO ITS ORIGINAL OR BETTER CONDITIONS. IT IS IMPORTANT THAT THE CONTRACTOR BE AWARE OF THE WORK LIMITS SO THAT NO DAMAGE CAN RESULT TO THOSE AREAS OUTSIDE THESE LIMITS.

8. THE CONTRACTOR SHALL FURNISH THE SITE INSPECTOR AND OBSERVER, OWNER, AND LANDSCAPE ARCHITECT THE NAMES, ADDRESS AND TELEPHONE NUMBERS OF ALL PERSONNEL RESPONSIBLE FOR THE WORK IN CASE OF EMERGENCIES.

9. THE PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING UTILITIES INCLUDING GAS LINES, TELEPHONE LINES, POWER LINES, WATER LINES, SEWER LINES, STORM SEWERS AND IRRIGATION LINES WITHIN THE VICINITY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND SHALL EXERCISE EXTREME CARE IN WORKING IN THE VICINITY OF THESE LINES.

10. ALL EXISTING LINES, WHETHER BELONGING TO THE CITY OF SAN ANTONIO OR PRIVATE SHALL REMAIN IN OPERATION AT ALL TIMES. SWITCH OVER TIME, RE-CONNECTING NEW SERVICE FROM EXISTING LINES OR SERVICES (IF ANY) SHALL BE KEPT TO A MINIMUM. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RE-CONNECTS, TEMPORARY OR OTHERWISE, OF ALL WATER AND SANITARY SEWER LINES REQUIRED TO COMPLETE THE PROJECT. UNLESS OTHERWISE SPECIFIED IN THE BID PROPOSAL FORM, PAYMENT FOR SUCH ITEMS SHALL BE SUBSIDIARY TO ALL THE VARIOUS ITEMS OF THE BID.

11. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES WHILE WORKING IN THE VICINITY OF THE CORRESPONDING PRIVATE OR PUBLIC UTILITY.

12. THE OWNER RESERVES THE RIGHT TO ADD OR DELETE QUANTITIES OF BID ITEMS IN THE PROPOSAL AT THE UNIT PRICES GIVEN, PROVIDED HOWEVER THAT SUCH ADDITIONS OR REDUCTIONS ARE WITHIN THE AGGREGATE LIMITS SPECIFIED IN THE GENERAL CONDITIONS OF THE AGREEMENT.

13. THE CONTRACTOR IS EXPECTED TO CONDUCT HIS WORK IN SUCH A MANNER AS TO MINIMIZE ANY SOIL EROSION OR SEDIMENT RUNOFF FROM THE CONSTRUCTION SITE. EARTH CUTS AND FILLS SHALL HAVE SMOOTH, FLAT SIDE SLOPES, AS GENERALLY INDICATED ON THE PLANS, TO PRECLUDE EROSION OF THE SOIL. SUCH OPERATIONS SHOULD BE TIMES CONSISTENT WITH THE ACTUAL NEED FOR DOING THE WORK AND ONLY TO LEAVE RAW, UNPROTECTED SURFACES FOR A MINIMUM OF TIME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY EROSION THAT OCCURS AT HIS COST WITHOUT CLAIM FOR EXTRA COMPENSATION.

14. UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT OF ANY PART OF ALL OF THE MATERIAL, AS PROVIDED FOR IN THESE SPECIFICATIONS, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR, AND HE SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST INJURY OR DAMAGE TO ANY PART OF THE MATERIAL BY ACTION OF THE ELEMENTS OF FROM THE NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, ALL INJURIES OR DAMAGE TO ANY PORTION OFF THE MATERIAL OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE ITS COMPLETION AND ACCEPTANCE.

15. IN CASES WHERE THE CONTRACTOR DEEMS EXTRA COMPENSATION IS DUE HIM FOR MATERIALS NOT CLEARLY COVERED IN THE CONTRACT, OR NOT ORDERED BY THE LANDSCAPE ARCHITECT AS AN EXTRA ITEM, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF HIS INTENTION TO MAKE CLAIM FOR SUCH EXTRA COMPENSATION BEFORE HE BEGINS THE WORK. THE CONTRACTOR SHALL NOT PROCEED UNTIL THE OWNER, LANDSCAPE ARCHITECT , AND CONTRACTOR APPROVES A WRITTEN CHANGE ORDER. FAILURE ON THE PART OF THE CONTRACTOR TO GIVE SUCH NOTIFICATION OR TO AFFORD THE LANDSCAPE ARCHITECT PROPER FACILITIES FOR KEEPING STRICT ACCOUNT OF ACTUAL COST SHALL CONSTITUTE A WAIVER OF THE CLAIM FOR SUCH EXTRA COMPENSATION. THE FILING OF SUCH NOTICE BY THE CONTRACTOR AND THE KEEPING OF COSTS BY THE LANDSCAPE ARCHITECT SHALL NOT IN ANY WAY BE CONSTRUED TO PROVE THE VALIDITY OF THE CLAIM. WHEN THE WORK HAS BEEN COMPLETED, THE CONTRACTOR SHALL, WITHIN 10 DAYS, FILE HIS CLAIM FOR EXTRA COMPENSATION WITH THE LANDSCAPE ARCHITECT .

16. UPON THE FAILURE OF THE CONTRACTOR TO REPAIR SATISFACTORILY OR TO REMOVE AND REPLACE, IF SO DIRECTED, REJECTED, UNAUTHORIZED, OR CONDEMNED MATERIALS IMMEDIATELY AFTER RECEIVING FORMAL NOTICE FROM THE LANDSCAPE ARCHITECT, THE OWNER MAY RECOVER FOR SUCH DEFECTIVE MATERIALS ON THE CONTRACTOR'S BOND, OR BY ACTION IN A COURT HAVING PROPER JURISDICTION OVER SUCH MATTERS, OR MAY EMPLOY LABOR AND EQUIPMENT AND SATISFACTORILY REPAIR OR REMOVE AND REPLACE SUCH WORK AND CHARGE THE COST OF THE SAME TO THE CONTRACTOR, WHICH COST WILL BE DEDUCTED FROM ANY MONEY DUE HIM.

17. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES. ALL PROPOSED ROUTING OF TRAFFIC MUST BE APPROVED IN WRITING PRIOR TO IMPLEMENTATION AND BE SEALED BY A LICENSE BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST EDITION.

18. SAW CUTTING OF EXISTING ASPHALT OR CONCRETE FOR CONSTRUCTION JOINTS WILL BE THE ONLY ACCEPTED METHOD.

19. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF AND FOLLOWING ALL TXDOT AND THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR THOSE ITEMS LISTED IN PROJECT SPECIFICATIONS.

20. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS INCLUDING GOVERNING BODIES AND GUIDELINES.

21. RELOCATIONS OF EXISTING FENCES, MAILBOXES, DRIVEWAYS, CULVERTS, PAVEMENT, DRAINAGE SYSTEMS, ETC. (WHERE NOT INDICATED ON PLANS) SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER, AND SUCH COSTS SHALL BE SUBSIDIARY TO THE VARIOUS UNIT ITEMS IN THE PROPOSAL.

22. DEWATERING AND TRENCH PROTECTION SHALL BE CONSIDERED AS INCIDENTAL WORK, AND THE COST THEREOF SHALL BE SUBSIDIARY TO THE VARIOUS UNIT ITEMS IN THE PROPOSAL.

23. SUBMITTALS AND/OR SHOP DRAWINGS FOR ALL BID ITEMS SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

24. THERE ARE TREES, ROCKS AND TERRAIN THAT MAY MAKE SURVEYING DIFFICULT. THESE CONDITIONS SHOULD BE CONSIDERED BY THE CONTRACTOR.

25. BECAUSE OF THE SPECIAL CONDITIONS ASSOCIATED WITH CONSTRUCTION OPEN TRENCHES OR HAZARDS MAY NOT BE LEFT OPEN AFTER DARK UNLESS BARRICADING IS IN PLACE.

26. CONTRACTOR SHALL CONFIRM EXISTING GRADES IN ALL AREAS PRIOR TO ANY CONSTRUCTION. NOTIFY OWNER OR OWNER'S REPRESENTATIVE IF ANY CONFLICTS ARE REVEALED.

27. ALL CURVES INDICATED ON THE PLANS TO BE CONSTRUCTED WITH TRUE RADIUS AND TANGENTS AS DRAWN AND LABELED.

28. ALL CONCRETE SURFACES TO HAVE A MEDIUM BROOM FINISH. SAMPLE PANEL TO BE COMPLETED BY THE CONTRACTOR AND APPROVED BY THE OWNER.

29. PROVIDE HAND TOOLED SCORED JOINTS 1/2" DEPTH WITH 1/2" RADIUS EACH SIDE. SPACE JOINTS AT A DISTANCE THAT MATCHES THE WIDTH OF THE WALK OR AS INDICATED ON THE PLANS. JOINTS THAT OCCUR ON CURVES IN THE WALK TO RADIATE FROM CENTER POINT OF CURVE. SAWCUT JOINTS WILL NOT BE PERMITTED.

30. PROVIDE 1/2" EXPANSION JOINTS AT 100' O.C. AND AT ALL POINTS WHERE NEW CONCRETE MEETS EXISTING WALKS, BUILDINGS AND CURBS.

31. OUTSIDE EDGE OF CONCRETE WALK TO BE FORMED TO FULL 8" DEPTH WHERE DEEPER TOW DOWNS ARE NOT BEING IMPLEMENTED.

32. ALL AREAS DISTURBED BY CONSTRUCTION TO BE HYDROSEEDDED WITH LOW GROWING MEADOW BLEND BY WILDSEED FARMS, OR APPROVED EQUAL, AT A RATE OF 1 LB./1,000 S.F.

33. ALL STONE WALLS, STONE MONOLITHS, BOULDERS, KIOSKS, AND SIGNS INCLUDING MILE MARKER SIGNS AND FRAMES LOCATED AT TRAILHEADS, TRAIL NODES, AND ALONG THE TRAIL ARE TO BE COATED WITH 'PROSOCO' ANTI-GRAFFITI BARRIER IMMEDIATELY AFTER INSTALLATION.

34. CONTRACTOR TO PROVIDE A 5'-0" SHOULDER ON BOTH SIDES OF TRAIL. TRAIL AND SHOULDERS TO HAVE A 2% CROSS SLOP TO THE CREEK SIDE OF THE TRAIL. EXISTING TREES WITHIN THE TRAIL SHOULDER ARE TO BE PRESERVED AND PROTECTED, UNLESS TREE REMOVAL IS APPROVED OR DIRECTED BY THE LANDSCAPE ARCHITECT.

35. EXCAVATED MATERIALS OR OTHER MATERIALS REMOVED FROM THE SITE (NOT USED ON SITE) SHALL BE TESTED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL STATE AND FEDERAL REGULATIONS BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL PROVIDE A RECEIPT FROM LANDFILL COMPANY UPON REQUEST.

36. CONTRACTOR SHALL PROVIDE SIGNS SUPPLIED BY A LICENSED SIGN COMPANY AND INSTALLED BY A LICENSED SIGN CONTRACTOR. PERMITS FOR SIGNS SHALL BE OBTAINED FROM APPROPRIATE AGENCIES.

37. CONTRACTOR TO USE A CITY CERTIFIED TREE ARBORIST.

38. CONTRACTOR IS TO STAY WITHIN LIMITS OF CONSTRUCTION AND APPROVED ACCESS CORRIDORS. ALL SITE DISTURBANCE TO BE RESTORED TO PRE-EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.

39. A SIGNIFICANT AREA OF THE SITE IS WITHIN THE FLOODPLAIN. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND MACHINERY STORED ONSITE WITHIN THE FLOODPLAIN. DAMAGE TO MATERIALS AND EQUIPMENT WITHIN THE FLOODPLAIN DUE TO WEATHER AND FLOODING ARE TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.

40. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AT MINIMUM A ZERO NET FILL WITHIN THE FLOODPLAIN. ALL FILL PLACED IN THE FLOODPLAIN IS TO BE BALANCED WITH AT LEAST AN EQUAL AMOUNT OF SOIL MATERIAL REMOVED.

41. THE CONTRACTOR IS TO UTILIZE INDICATED AREA, SEE SWPPP 1.00 FOR THE PROJECT STAGING AREA.

42. THE CONTRACTOR WILL BE ABLE TO ACCESS THE SITE FROM GOLD CANYON DRIVE AND CORPORATE WOODS DRIVE. THESE ARE THE ONLY TWO APPROVED CONSTRUCTION ACCESS POINTS INTO THE SITE.

43. THE CONTRACTOR IS TO LIMIT THEIR IMPACT ONTO THE SITE. THE CONTRACTOR IS TO STAY WITHIN THE LIMITS OF CONSTRUCTION AS IDENTIFIED IN THE PLANS. THE CONTRACTOR WILL BE PERMITTED TO UTILIZING THE EXISTING UTILITY ACCESS ROADS WITHIN THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS TO THEIR PRE-CONSTRUCTION STATE.

44. THE CONTRACTOR IS TO BE FAMILIAR WITH THE SITE. MOST OF THE SITE CONTAINS SHALLOW TOPSOIL. CONTRACTOR IS RESPONSIBLE FOR NECESSARY MATERIALS TO IMPLEMENT DETAILS AS SHOWN.

45. THE CONTRACTOR IS TO BE AWARE THAT THE MAJORITY OF THE SITE IS PRONE TO FLOODING. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EQUIPMENT OR STORED MATERIALS AND IMPROVEMENTS NOT YET ACCEPTED BY THE OWNER. REF. SHEET SW 1.00 FOR STAGING AREA LIMITS.

46. ALL STONE WALLS, STONE MONOLITHS, BOULDERS, KIOSKS, AND SIGNS INCLUDING MILE MARKER SIGNS AND FRAMES LOCATED AT TRAILHEADS, TRAIL NODES, AND ALONG THE TRAIL ARE TO BE COATED WITH 'PROSOCO' ANTI-GRAFFITI BARRIER IMMEDIATELY AFTER INSTALLATION.

47. IF ANY SENSITIVE FEATURE (CAVES, SUBSURFACE VOIDS, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL CONSTRUCTION ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE ENGINEER SHOULD BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. THE CONSTRUCTION ACTIVITIES NEAR THE SENSITIVE FEATURE MAY NOT PROCEED UNTIL A US FISH AND WILDLIFE SERVICE (USFWS) PERMITTED BIOLOGIST HAS ASSESSED THE SITE FOR EVIDENCE OF HABITAT OR LISTED ENDANGERED SPECIES. IF IT IS DETERMINED THAT ENDANGERED SPECIES OR THEIR HABITAT IS PRESENT WITHIN THE VOID SPACE, CONSULTANTS WITH THE USFWS WILL COMMENCE AND WORK WITHIN THE IMMEDIATE VICINITY OF THE SENSITIVE FEATURE WILL NOT BE ALLOWED TO PROCEED UNTIL ALL PARTIES ARE IN AGREEMENT REGARDING NECESSARY PERMITTING.

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

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

49. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.

50. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CAVITY, SINK HOLE, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES MAY NOT BE RESUMED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.

51. NO TEMPORARY OR PERMANENT HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.

52. 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 APPROVED PLANS AND MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

53. 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.

54. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS NOT LATER THAN WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.

55. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.

56. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.

57. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL 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.

58. THE FOLLOWING RECORDS SHALL 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 SITE; AND
- THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

59. THE HOLDER OF ANY APPROVED EDWARD AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:

- ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;
- ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;
- ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.

ACCESSIBILITY REQUIREMENTS:

1. ALL CONSTRUCTION AS PART OF THIS PROJECT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE DESIGN GUIDELINES ESTABLISHED BY THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS).

2. THE GENERAL CONTRACTOR SHALL REPORT TO THE OWNER/ARCHITECT ANY AND ALL DISCREPANCIES BETWEEN, OR WITHIN, THE CONTRACT DOCUMENTS AND THE DESIGN GUIDELINES ESTABLISHED BY THE ADA AND THE TAS PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION.

3. THE GENERAL CONTRACTOR SHALL UTILIZE EXTREME CARE TO INSURE THAT ALL TOLERANCES, DIMENSIONS AND CLEARANCES ARE CONSTRUCTED ACCURATELY AND WITHOUT DEVIATION.

4. THE GENERAL CONTRACTOR IS REQUIRED TO TAKE ANY AND ALL ACTIONS NECESSARY TO CORRECT CONDITIONS WHICH ARE IN THE OPINION OF THE STATE ACCESSIBILITY INSPECTOR IN VIOLATION OF TAS GUIDELINES AS THE DIRECT RESULT OF DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS OR INADEQUATE CONSTRUCTION CONTROL AND/OR TOLERANCES.

5. NO SIDEWALK OR WALKWAY SHALL HAVE A LONGITUDINAL SLOPE EXCEEDING 1:20 (5%).

6. NO SIDEWALK OR WALKWAY SHALL HAVE A CROSS SLOPE EXCEEDING 1:50 (2%).

7. NO SIDEWALK OR WALKWAY SHALL HAVE A VERTICAL CHANGE IN LEVEL GREATER THAN 1/2" WITHOUT THE USE OF A RAMP.

8. CHANGES IN LEVEL ALONG SIDEWALKS AND WALKWAYS UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT.

9. CHANGES IN LEVEL ALONG SIDEWALKS AND WALKWAYS BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 (50%).

10. SIDEWALKS, WALKWAYS AND RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON THE WALKWAY SURFACE.

11. GRADES SURROUNDING SIDEWALKS, WALKWAYS AND RAMPS SHALL BE BROUGHT EVEN WITH THE PAVED SURFACE WHERE NO EDGE CURB OR RAILING IS INDICATED.

12. SIDEWALKS AND WALKWAYS SHALL HAVE A SLIP RESISTANT SURFACE WITH A MINIMUM STATIC COEFFICIENT OF FRICTION OF 0.6.

13. RAMPS AND CURB RAMPS SHALL HAVE A SLIP RESISTANT SURFACE WITH A MINIMUM STATIC COEFFICIENT OF FRICTION OF 0.8.

14. CURB RAMPS SHALL CONFORM TO THE DIMENSIONS AND SLOPE AS INDICATED IN THE DETAILS ON THIS SHEET.

15. REFERENCE SHEET DT 1.01 FOR ADA ACCESSIBILITY DETAILS.

16. ALL INTERSECTIONS AND GATHERING AREAS (TRAIL NODES, TRAILHEADS, INTERPRETIVE NODES, ETC.) ARE TO HAVE A MAXIMUM SLOP OF 2% IN ANY DIRECTION.



terra design group, inc.
4040 broadway, suite 103
san antonio, texas 78209
210.220.1400
wheard@terradesignsa.com

AS-BUILTS
THIS SET OF AS-BUILTS WERE
PRODUCED IN ACCORDANCE TO
REDLINES PROVIDED BY THE
GENERAL CONTRACTOR TO THE
LANDSCAPE ARCHITECT AND
REPRESENTS THE EXISTING FIELD
CONDITIONS AT THE COMPLETION
OF THE PROJECT.
7/15/2024

GOLD CANYON PARK

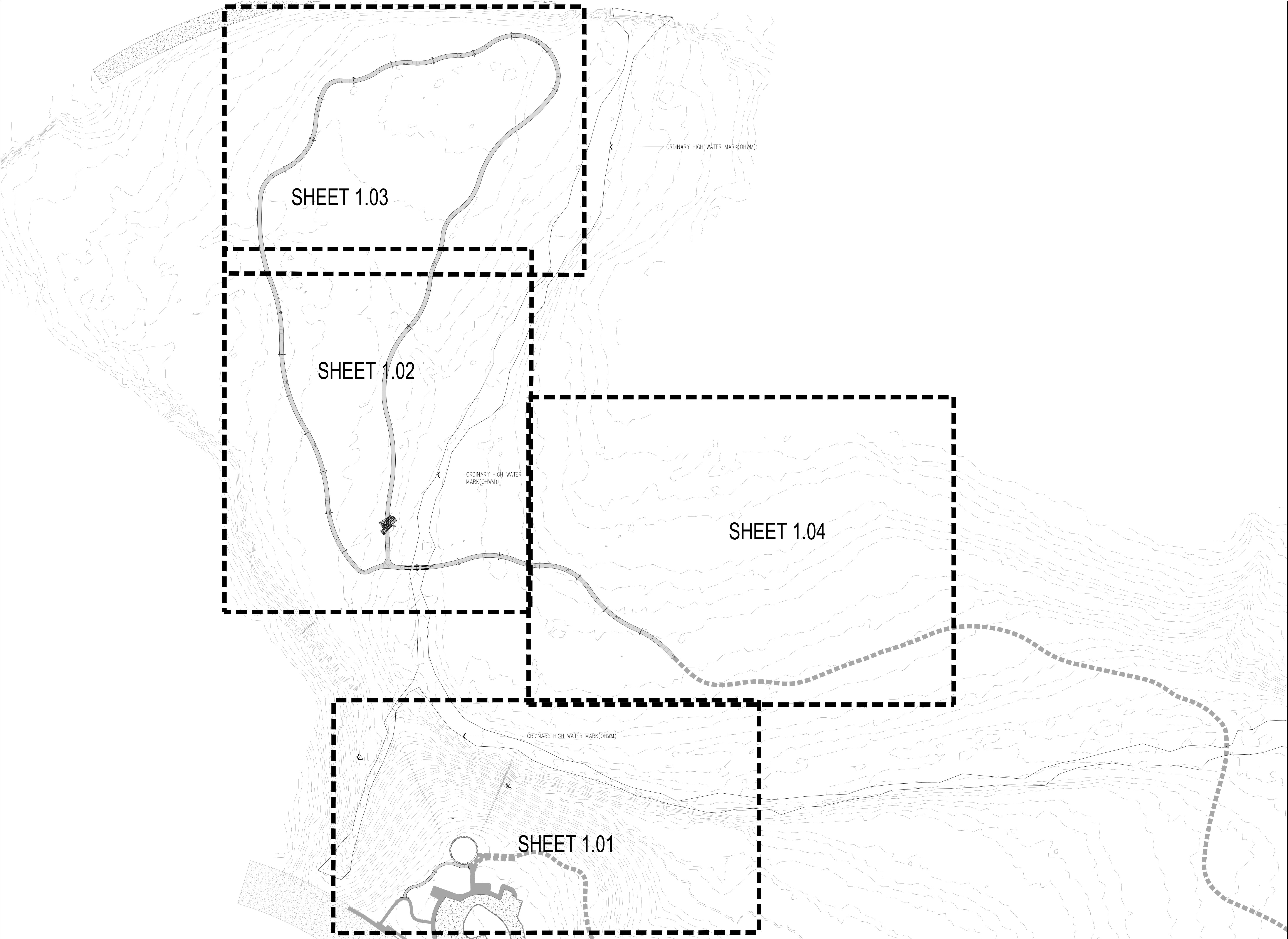
18402 Corporate Woods Dr
San Antonio, Texas 78259

REVISION	DATE
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Project no:
Date: September 29, 2022
Sheet: X of XX

GENERAL NOTES

GN 1.00



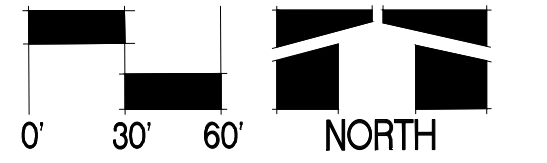
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OVERALL SITE LAYOUT OL 1.00

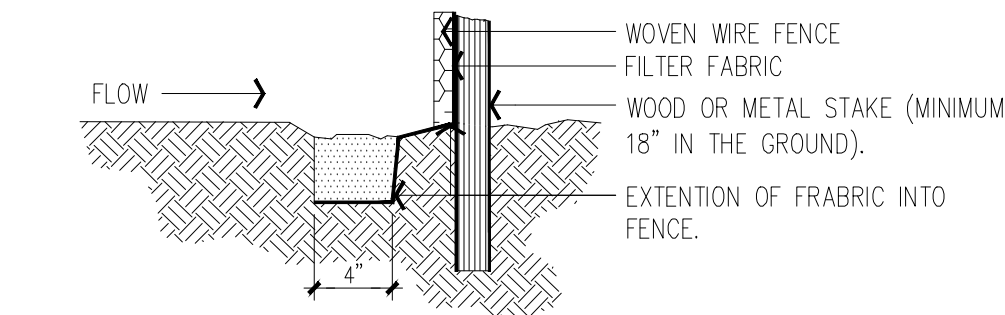
Construction Documents

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

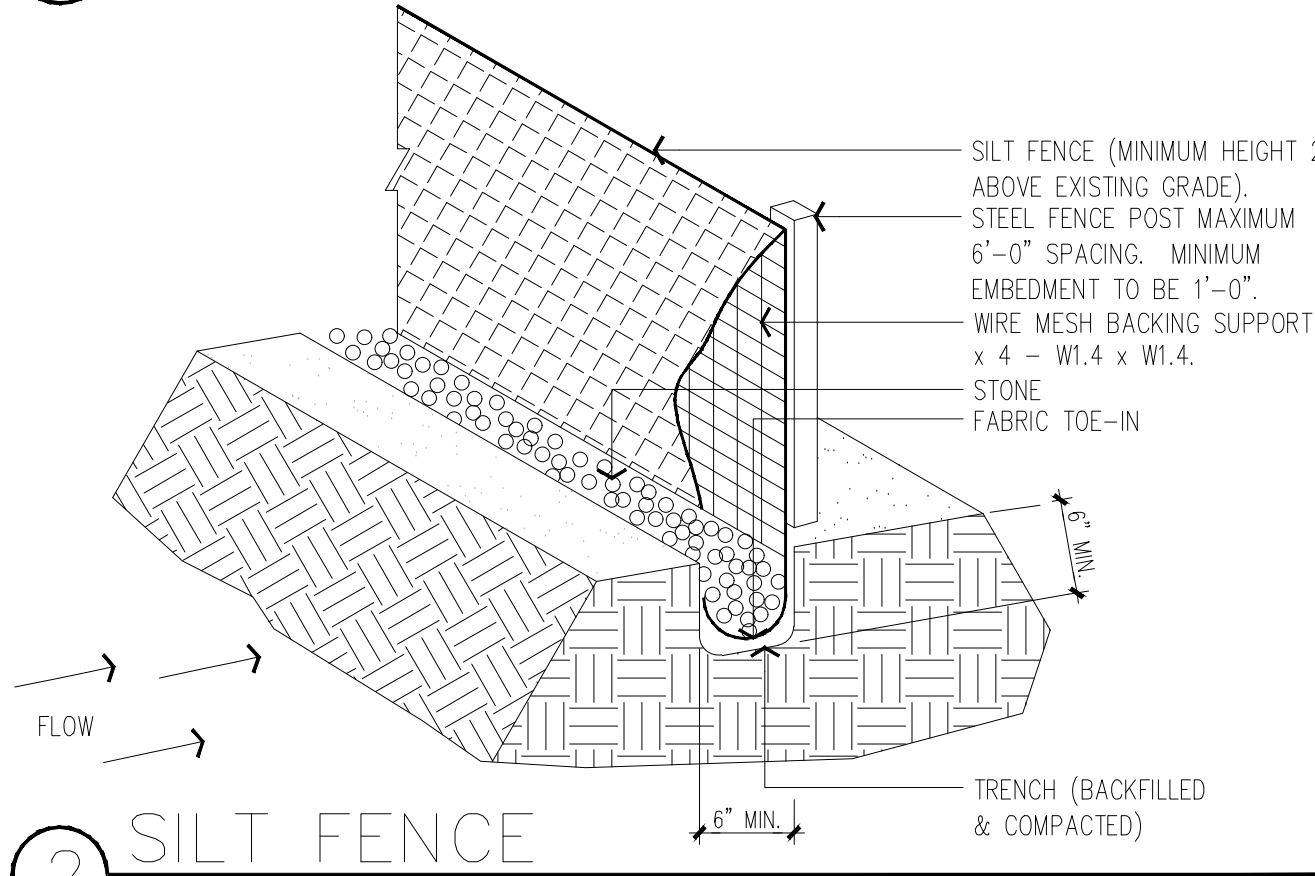
GENERAL NOTES:

1. REFER TO LANDSCAPE ARCHITECTS PLANS FOR ADDITIONAL DETAILS.
2. REFER TO CITY OF SAN ANTONIO TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES STANDARDS 1 AND 2 FOR ADDITIONAL DETAILS. SEE SHEETS C4.01, C4.02 AND C4.03 AND STANDARD SPECIFICATION ITEM 540 TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND CONTROL.
3. CONCRETE WASH-OUT PITS WILL BE CONSTRUCTED AT LOCATIONS WHERE CONTAMINANTS CAN BE CONTAINED UNTIL THEY CAN BE COLLECTED AND REMOVED FROM THE SITE.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED INSPECTIONS, PERMITS AND FEES, AND PROVIDE REQUIRED NOTICES TO GOVERNMENTAL AUTHORITIES TWO WEEKS PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL COMPLY WITH CITY BUILDING CODES AND REGULATIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PROVISIONS APPLICABLE TO THIS PROJECT.
6. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING DEMOLITION, METHODS OF WORK AND DISPOSAL OF EXCESS AND WASTE MATERIALS.
7. CONTRACTOR SHALL PROTECT ALL TREES IN THE PROJECT AREA UNTIL PROJECT COMPLETION, EXCEPT THOSE TREES DESIGNATED TO BE REMOVED ON THE DEMOLITION OR TREE PRESERVATION PLAN.
8. INCIDENTAL WORK ASSOCIATED WITH THIS PROJECT AND NOT SPECIFICALLY IDENTIFIED WITH SEPARATE PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER PAY ITEMS OF WHICH IT FORMS A COMPONENT PART.
9. DRIVEWAYS, WALKS AND RETAINING WALLS SHALL BE DEMOLISHED AND REMOVED WHERE NECESSARY FOR NEW CONSTRUCTION AS SHOWN ON THE DEMOLITION PLAN OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
10. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO GIVE ADEQUATE ADVANCE WARNING OF ANY IMPACT THE WORK MAY HAVE ON RESIDENCES, BUSINESSES, COMMUTERS AND OTHERS. ADEQUATE SIGNAGE SHALL BE PLACED TO ALERT CUSTOMERS OF ALTERNATE ACCESS TO IMPACTED BUSINESSES AS COORDINATED WITH THE BUSINESS OWNERS AND APPROVED BY THE ENGINEER.
11. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES, INCLUDING SERVICE LATERALS, AND DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT AND SHALL PROTECT THE SAME DURING CONSTRUCTION.
- | | |
|-----------------------------------|----------------|
| SAWS | (210) 233-2009 |
| COSA DRAINAGE | (210) 207-2800 |
| COSA TRAFFIC SIGNAL OPERATIONS | (210) 207-7765 |
| TEXAS STATE WIDE ONE CALL LOCATOR | (800) 545-6005 |
| CPS ENERGY | (800) 545-6005 |
| AT&T | (800) 545-6005 |
| TIME WARNER CABLE | (800) 545-6005 |
| VALERO ENERGY CO. | (800) 545-6005 |
12. THE CONTRACTOR SHALL NOT PLACE ANY MATERIAL IN THE 100-YEAR FLOODPLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOODPLAIN DEVELOPMENT PERMIT.
13. ALL WASTE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO PROPERLY DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE DRAINAGE RIGHT-OF-WAY AND TO PRIVATE PROPERTY WHERE THE CONTRACTOR HAS THE DOCUMENTED CONSENT OF THE PROPERTY OWNER. NO WASTE MATERIAL SHALL BE PLACED IN THE EXISTING DRAINAGE COURSES.
14. THE CONTRACTOR SHALL, AT ALL TIMES, PROTECT THE PUBLIC FROM HAZARDOUS CONDITIONS. THE WORK SHALL BE CLEARLY IDENTIFIED AND ACCESS TO HAZARDOUS AREAS SHALL BE RESTRICTED AT ALL TIMES. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL (OSHA), STATE AND LOCAL SAFETY REGULATIONS AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO PRECLUDE ANY SAFETY HAZARD TO THE PUBLIC.
15. ADEQUATE BARRICADES AND LIGHTING SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR FOR JOB SAFETY AND TRAFFIC FLOW ON ALL DETOUR ROUTES. TEMPORARY ROADS, ACCESS ROUTES FOR LOCAL TRAFFIC AND PEDESTRIANS, AND UNFINISHED ROADS OPEN FOR TEMPORARY USE. THE CONTRACTOR SHALL INSTALL AND MAINTAIN BARRICADES AS PER THE CURRENT EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ABOVE GROUND AND UNDERGROUND UTILITIES DURING CONSTRUCTION INCLUDING THOSE UTILITIES NOT SHOWN ON THE PLANS. ANY DAMAGES TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/ENGINEER AT NO COST TO THE OWNER OR THE IMPACTED UTILITY.
17. ANY EXISTING SITE IMPROVEMENT OR UTILITY REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE RESPECTIVE UTILITY AT THE CONTRACTOR'S EXPENSE.
18. CONTRACTOR SHALL NOT MAKE ANY ADJUSTMENTS TO AT&T, CPS ENERGY MANHOLES, MANHOLE COVERS, VAULTS, GAS VALVES AND GAS METERS LOCATED IN THEIR PROJECT AREA. THE CONTRACTOR SHALL ADJUST ALL STORM, SANITARY MANHOLES, AND WATER VALVES BOXES, AND RELATED APPURTENANCES AS REQUIRED TO MATCH FINISH GRADES.
19. GAS (CPS ENERGY): DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.161, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
20. OVERHEAD ELECTRIC (CPS ENERGY): AN APPROXIMATE SAFE OVERHEAD CLEARANCE SHALL BE MAINTAINED BETWEEN ALL EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL NOTIFY CPS ENERGY AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF THE CPS OVERHEAD ELECTRIC LINE. CONTRACTOR SHALL MAINTAIN CPS ENERGY RECOMMENDED CLEARANCE REQUIREMENTS.
21. CONTRACTOR SHALL SUPPORT AND KEEP INTACT STORM DRAINS AND INLET STRUCTURES. ANY DAMAGE INCURRED WILL BE AT THE CONTRACTOR'S EXPENSE.
22. THE CONTRACTOR MUST MAINTAIN ALL STREETS OPEN TO TRAFFIC BY REPAIRING TRENCHES, POTHOLES, LEVELING UP WITH ASPHALT, ETC., AT CONTRACTOR'S EXPENSE AS DIRECTED BY THE LANDSCAPE ARCHITECT/ENGINEER.

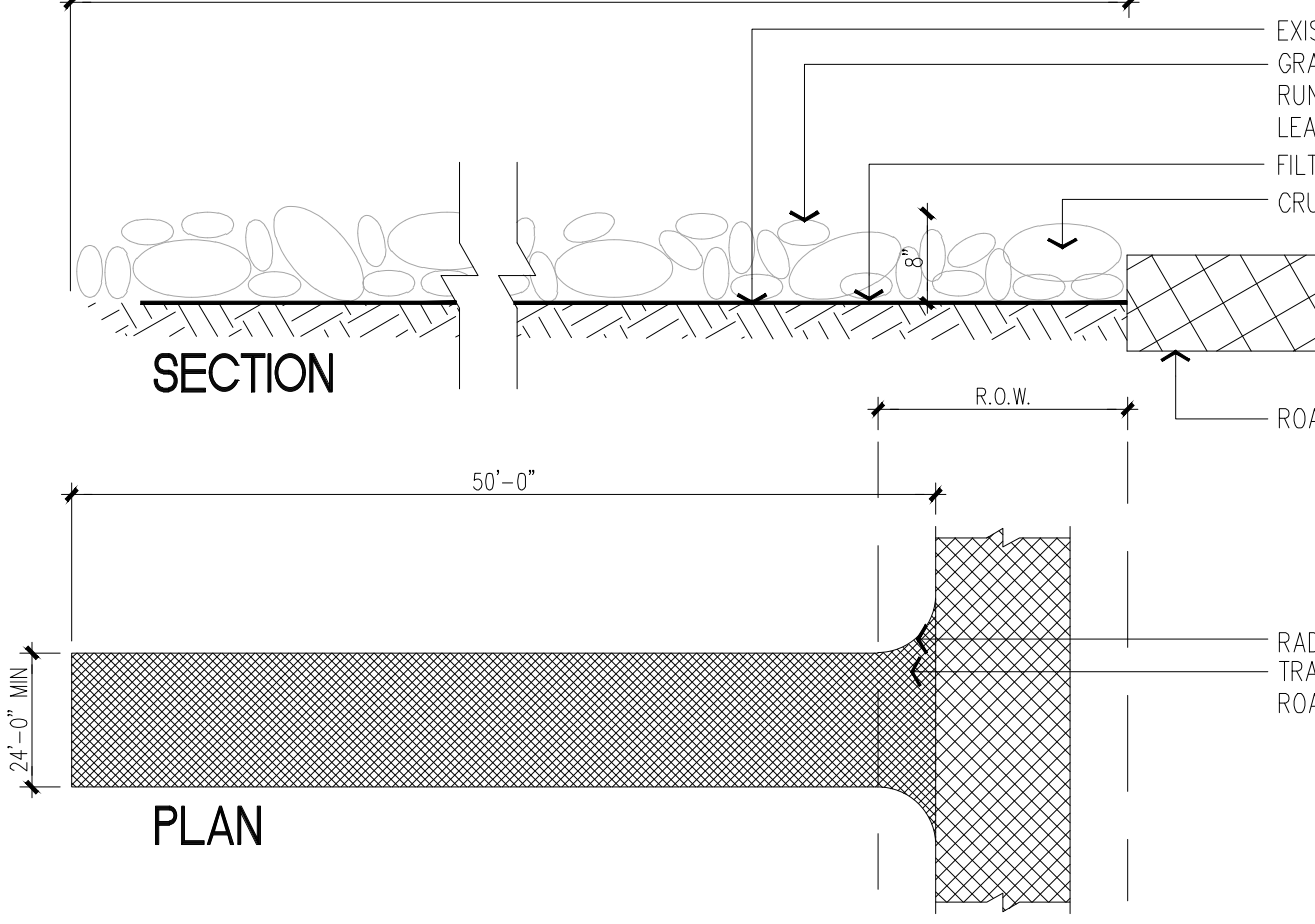
23. THE CONTRACTOR SHALL REPAIR AND MAINTAIN ALL STREETS AND LANES IN PROJECT LIMITS ALONG WITH ANY DETOURS OUTSIDE THE PROJECT LIMITS AS DIRECTED BY THE LANDSCAPE ARCHITECT/ENGINEER. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. THE COST IS TO BE INCLUDED IN OTHER ITEMS. REPAIR OPERATIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT/ENGINEER AND CITY STREET ENGINEER.
24. TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CITY'S 'TYPICAL SIGN AND BARRICADE STANDARDS' SHEETS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
25. ALL TEMPORARY TRAFFIC CONTROL DEVICES, ETC., SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT DIRECT PAYMENT UNLESS OTHERWISE NOTED OR STATED.
26. THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRE EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION OF SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL AS NOTED ON THIS STORM WATER POLLUTION PREVENTION PLAN.
27. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT.
28. IF HAZARDOUS OR CONTAMINATED MATERIALS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE CLIENT AND CONFORM TO ALL APPLICABLE REGULATORY REQUIREMENTS.
29. ALL MATERIAL AND CONSTRUCTION SHALL COMPLY WITH PROJECT SPECIFICATIONS AND CITY OF SAN ANTONIO SPECIFICATIONS AND STANDARDS.
30. ACTUAL LOCATION OF CONSTRUCTION ENTRANCE/EXIT, STAGING AREAS, CONCRETE WASHOUT PITS AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD. PROVIDE SILT FENCING AROUND ALL AREAS WHERE THE NATURAL GROUND IS DISTURBED.
31. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THE SWPPP AND SIGNED AND DATED BY THE RESPONSIBLE PARTY. TYPICAL DIMENSIONS ARE MEANT TO BE A GENERAL GUIDE.
32. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
33. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
34. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UP GRADIENT AREAS.
35. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
36. UPON COMPLETION OF THE PROJECT AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
37. MUD OR DIRT INADVERTENTLY TRACKED OFF-SITE AND ONTO EXISTING STREETS SHALL BE REMOVED IMMEDIATELY BY HAND OR MECHANICAL BROOM SWEEPING.
38. PRIOR TO INITIATION OF SUBSEQUENT PHASES OF CONSTRUCTION, TEMPORARY BMP'S INCLUDING SILT FENCING, CONSTRUCTION ENTRANCE/EXIT, CONCRETE WASHOUT PIT AND CONSTRUCTION STAGING AREA SHALL BE FIELD LOCATED AS APPROPRIATE FOR THE AREA OF CONSTRUCTION.
39. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SEQUENCING, REMOVING AND/OR REPLACEMENT OF TEMPORARY POLLUTION ABATEMENT MEASURES THAT CONFLICT WITH SITE IMPROVEMENTS SUCH AS LANDSCAPING AND FENCES SO AS TO PREVENT SEDIMENT FROM ESCAPING THE PROJECT SITE.
40. THE CONTRACTOR SHALL OBTAIN HIS OWN TPDES NOTICE OF INTENT AND PERMIT NUMBER. A COPY OF THE PERMIT SHALL BE PROVIDED TO THE CITY INSPECTOR AND LANDSCAPE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SUBMITTING A NOTICE OF TERMINATION UPON COMPLETION OF THE WORK AND AFTER THE SITE HAS BEEN STABILIZED.
41. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND IMPLEMENTING A STORM WATER POLLUTION PROTECTION PLAN TO COMPLY WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS.



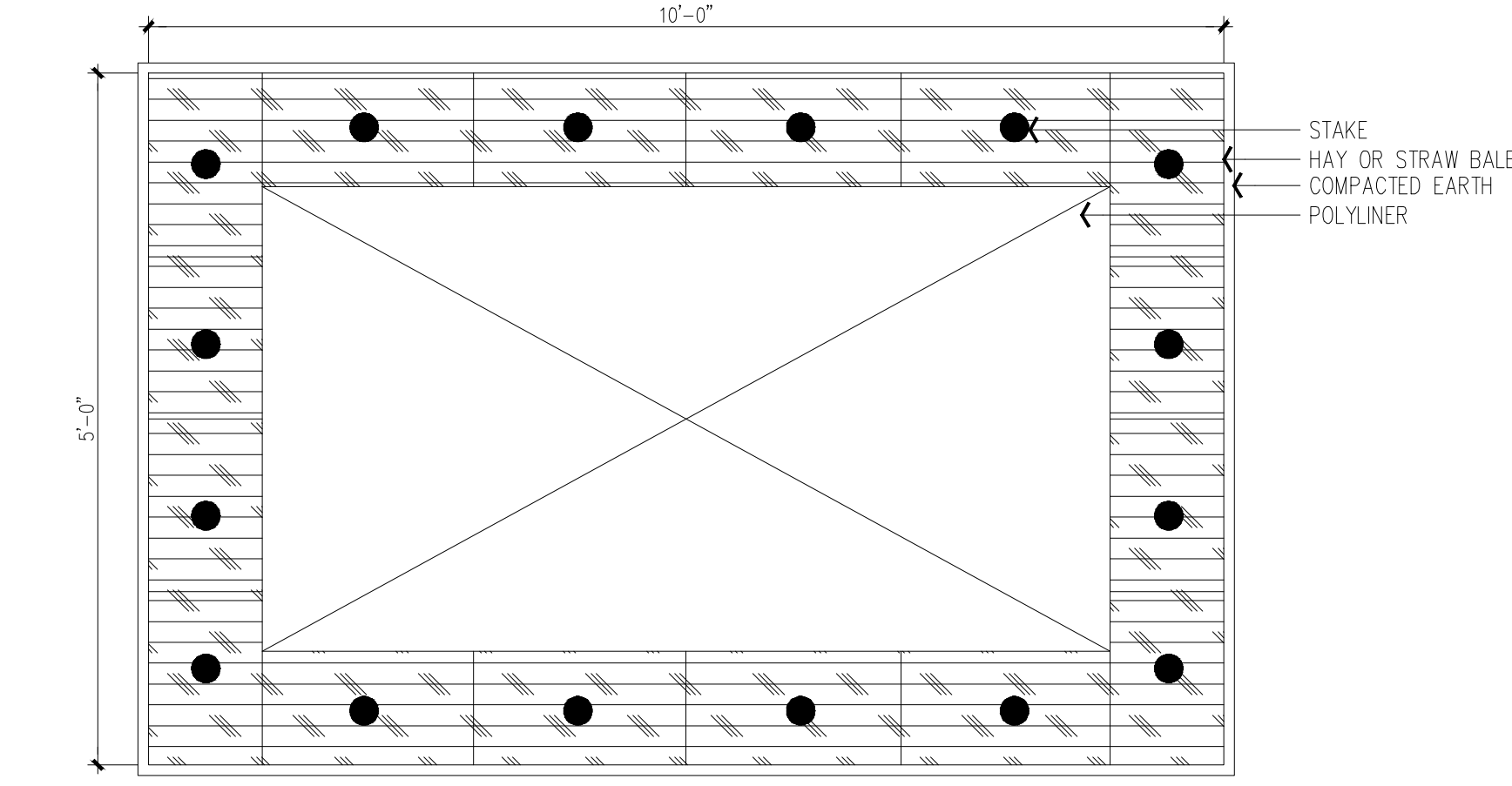
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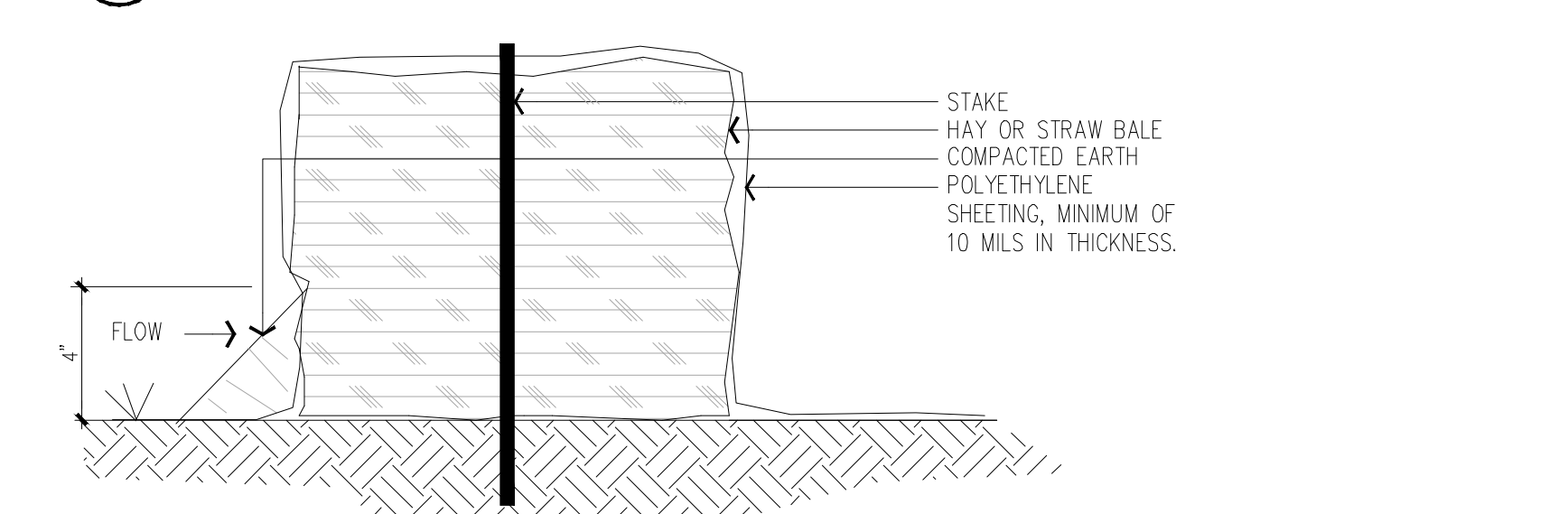
2 SILT FENCE
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3 STABILIZED CONSTRUCTION ENTRANCE
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4 PLAN: CONCRETE WASHOUT
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5 SECTION: BALE FENCE
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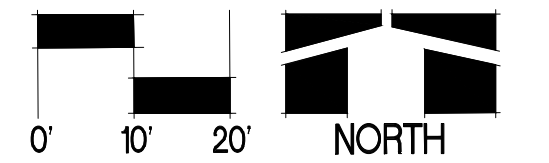
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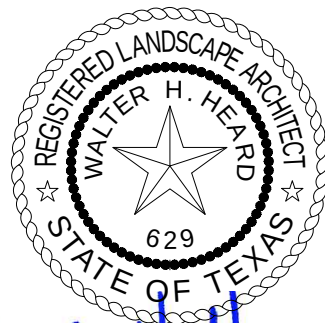
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Sheet: X of XX

SWPPP NOTES,
DETAILS AND
LAYOUT
SP 1.00

Construction Documents



Walter H. Heard
12.22.22



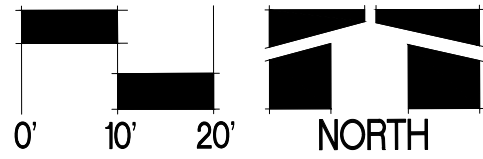
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IMPERVIOUS COVER LAYOUT IC 1.01



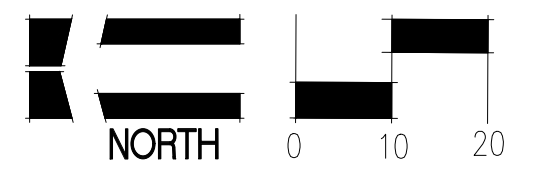
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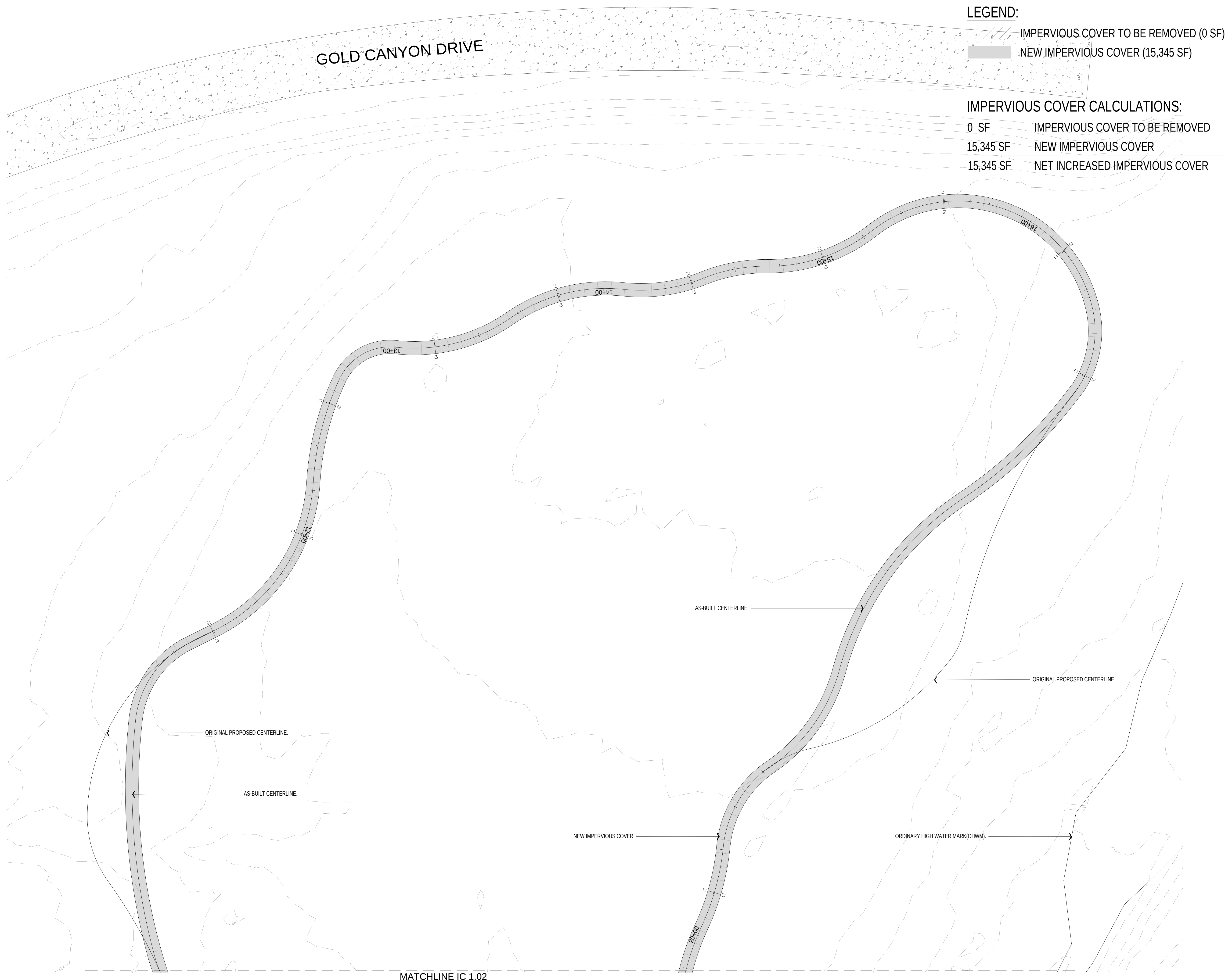
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IMPERVIOUS COVER LAYOUT IC 1.02



LEGEND:

	IMPERVIOUS COVER TO BE REMOVED (0 SF)
	NEW IMPERVIOUS COVER (15,345 SF)

IMPERVIOUS COVER CALCULATIONS:

0 SF	IMPERVIOUS COVER TO BE REMOVED
15,345 SF	NEW IMPERVIOUS COVER
15,345 SF	NET INCREASED IMPERVIOUS COVER

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12.22.22

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4040 broadway, suite 103
san antonio, texas 78209
210.220.1400
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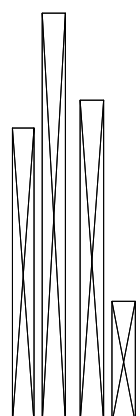
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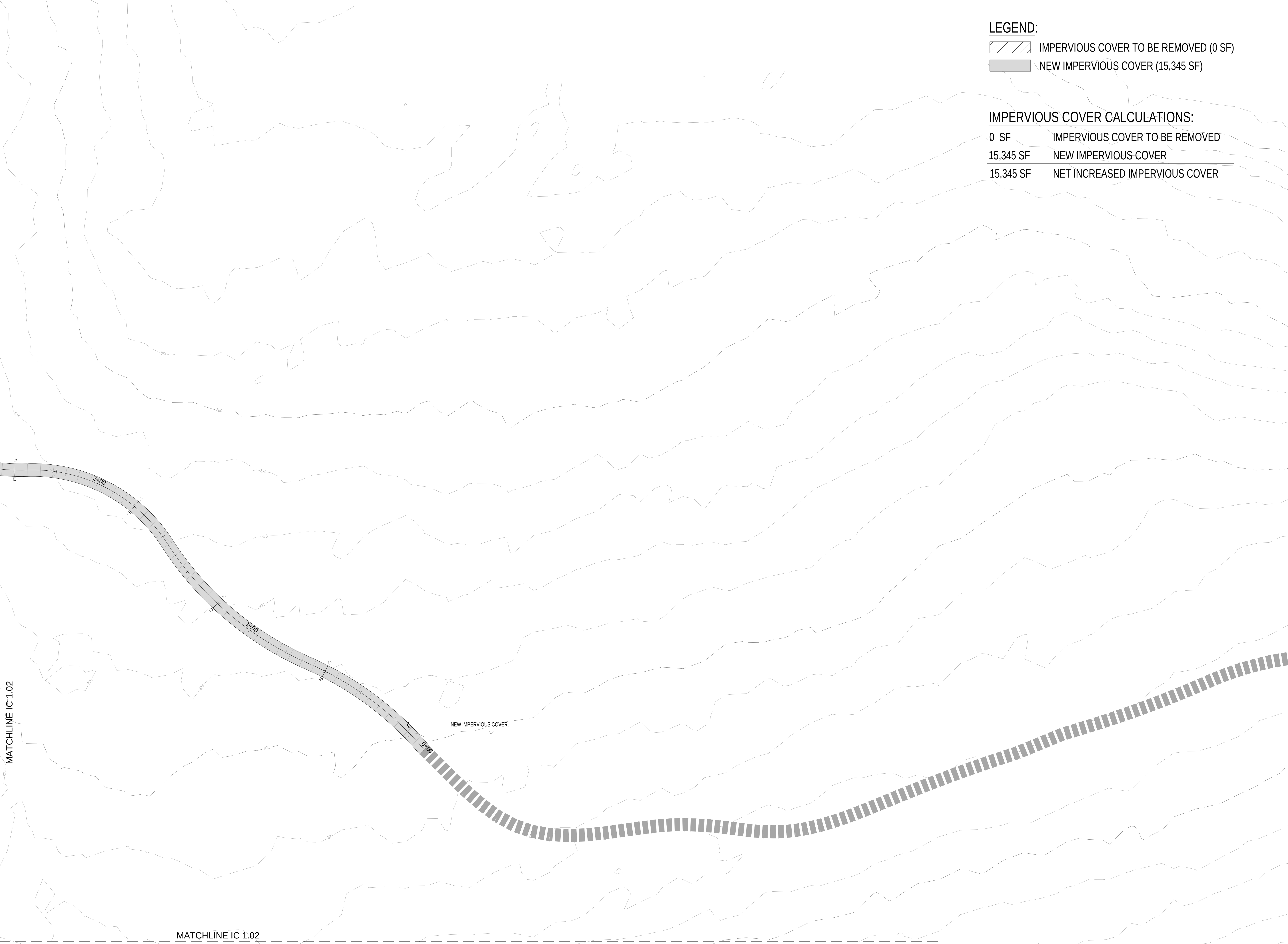
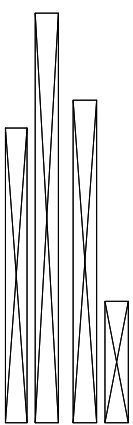
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Project no:
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IMPERVIOUS
COVER
LAYOUT
IC 1.03

Construction Documents





LEGEND:

IMPERVIOUS COVER TO BE REMOVED (0 SF)

NEW IMPERVIOUS COVER (15,345 SF)

IMPERVIOUS COVER CALCULATIONS:

0 SF	IMPERVIOUS COVER TO BE REMOVED
15,345 SF	NEW IMPERVIOUS COVER
15,345 SF	NET INCREASED IMPERVIOUS COVER

Walter H. Heard
12.22.22

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4040 broadway, suite 103
san antonio, texas 78209
210.220.1400
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REVISION	DATE

0'

10'

20'

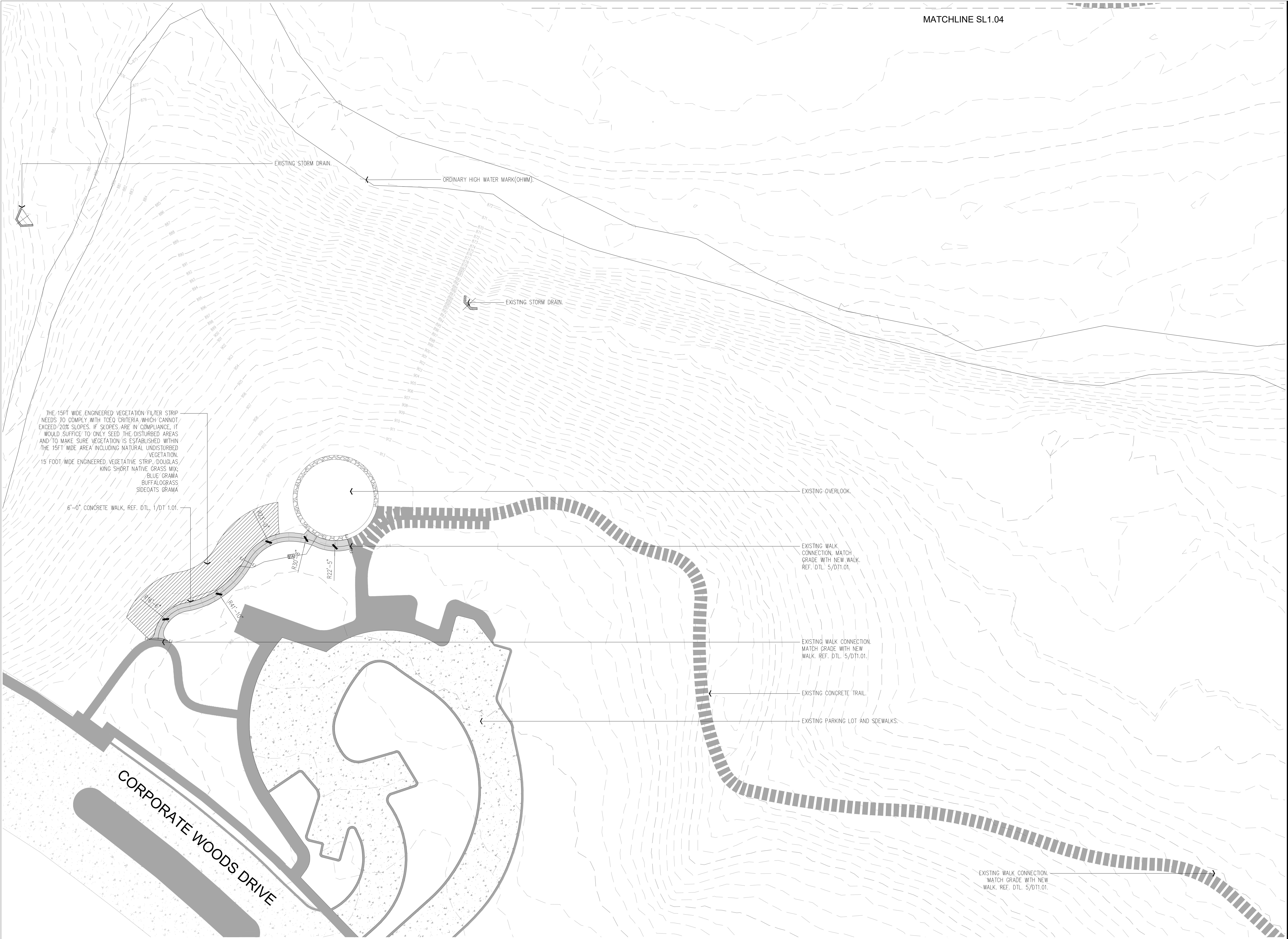
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IMPERVIOUS COVER LAYOUT

IC 1.04

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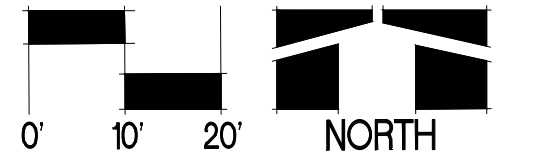
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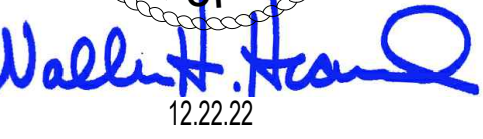


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SITE LAYOUT

SL 1.01

Construction Documents



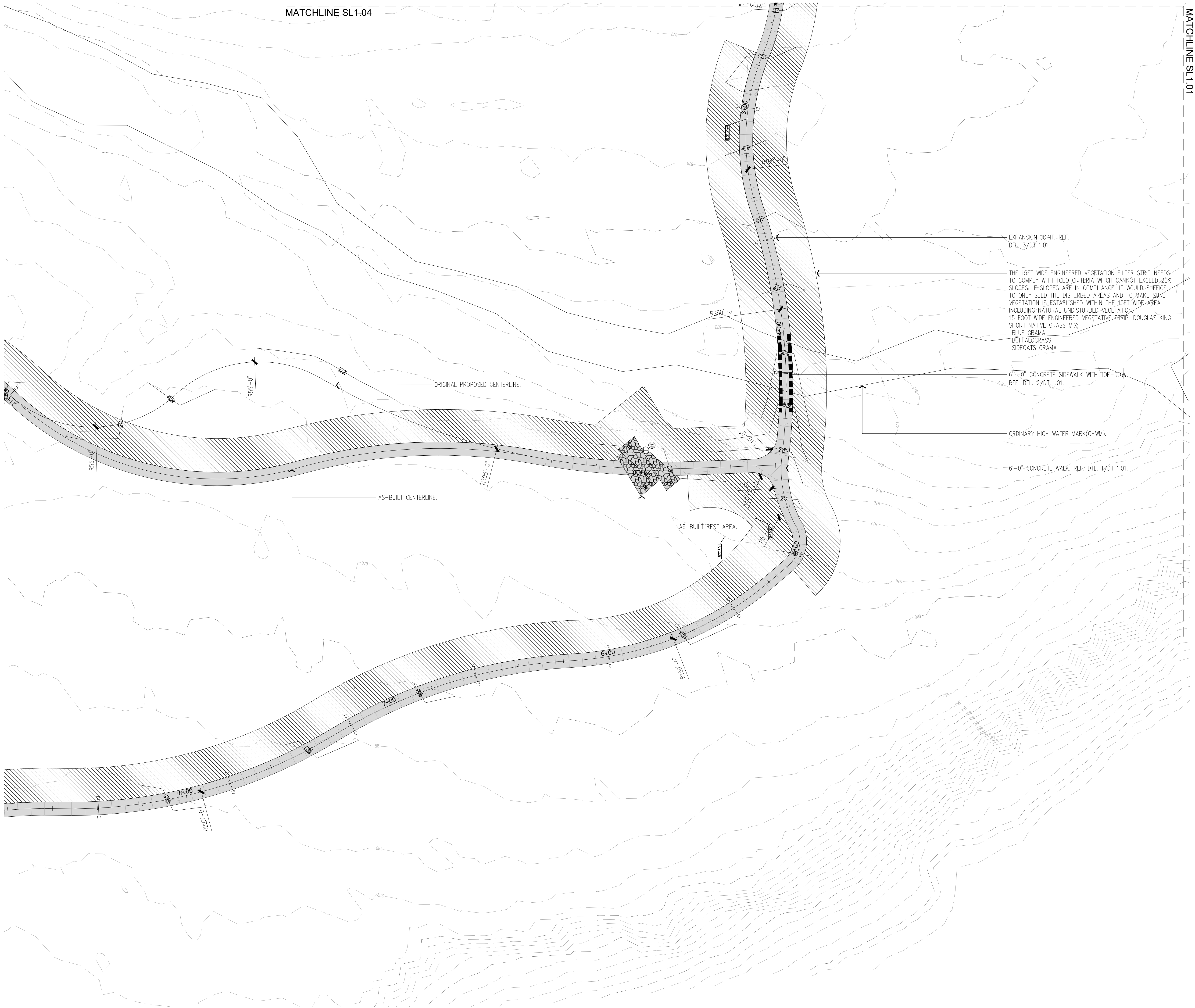
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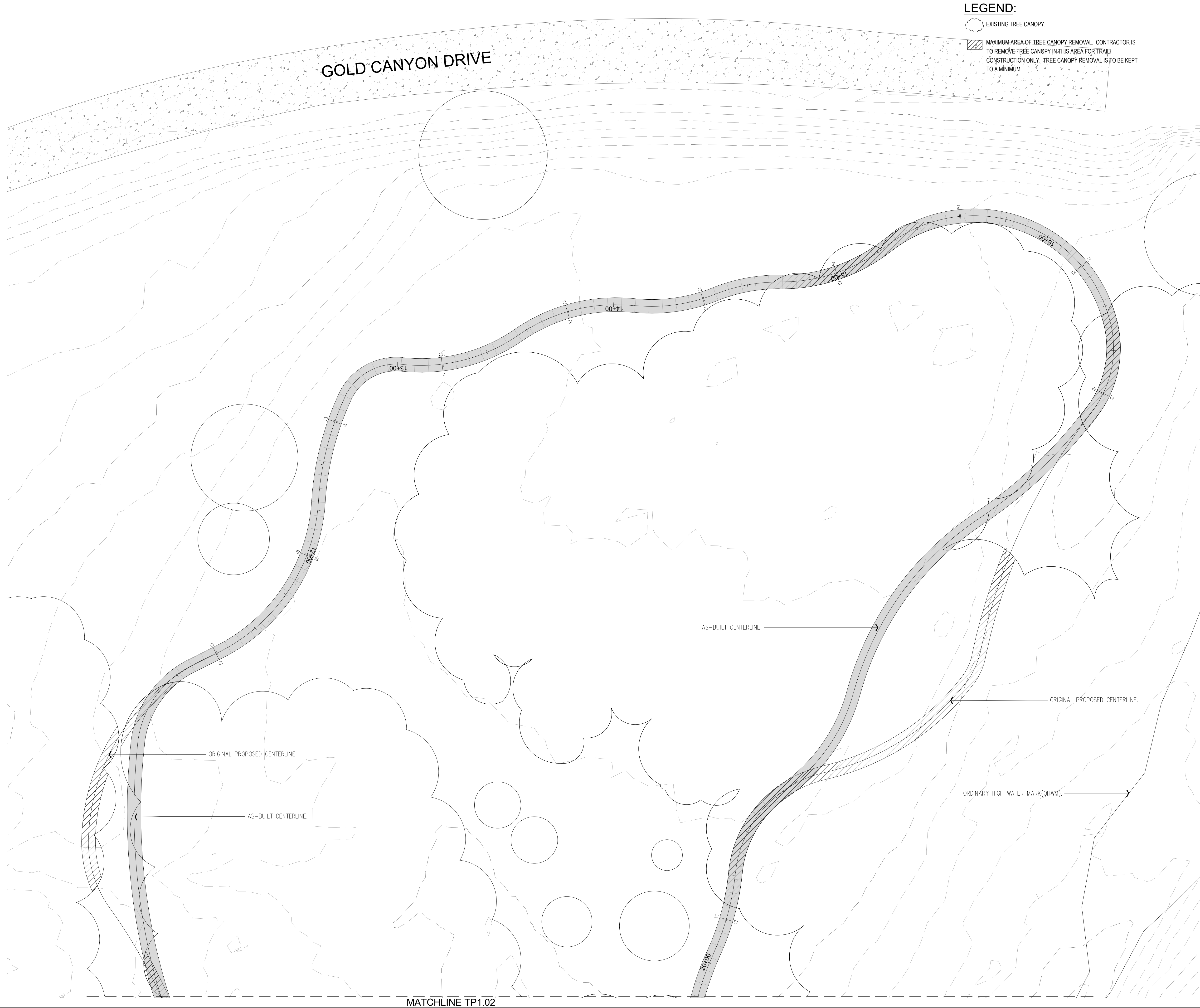
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LEGEND:

- EXISTING TREE CANOPY.
- MAXIMUM AREA OF TREE CANOPY REMOVAL. CONTRACTOR IS TO REMOVE TREE CANOPY IN THIS AREA FOR TRAIL CONSTRUCTION ONLY. TREE CANOPY REMOVAL IS TO BE KEPT TO A MINIMUM.



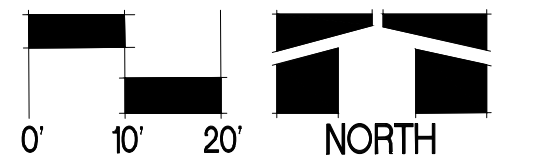
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TREE PRESERVATION

TP 1.03

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an antonio, texas 78209
10.220.1400
yheard@terradesignsa.com

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SITE LAYOUT

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LANDSCAPE ORDINANCE:

THE TREES REQUIRED BY THE LANDSCAPE ORDINANCE WILL BE WATERED WITH A HOSE FROM A HOSE BIB THAT WILL BE INSTALLED WITH THE DRINKING FOUNTAIN.

NOTES:

1. EXISTING TREES WITHIN AREAS IDENTIFIED AS NATURAL UNDISTURBED AND SELECTIVE CLEARING AREAS ARE MAINLY COMPRISED OF OAK, ELM, HACK BERRY AND MESQUITE IN DENSE BRUSH SETTING. INTENTION IS TO REMOVE ONLY TREES NECESSARY TO CONSTRUCT TRAIL AND PROVIDE VISUAL CLEARANCE FOR SECURITY AND SAFETY CONCERNS.

2. ALL TREES AND UNDERSTORY VEGETATION IS TO REMAIN UNDISTURBED.

3. TREES AND UNDERSTORY ARE TO BE SELECTIVELY RETAINED AS DIRECTED BY LANDSCAPE ARCHITECT. TREES TO REMAIN SHALL INCLUDE PROTECTED TREES 6" CALIPER AND LARGER, AND SMALL SPECIES TREES 2" AND LARGER.

4. IF PARKING BECOMES PART OF THIS PROJECT THE LOCATION OF ISLANDS AS SHOWN ON PLAN ARE DIAGRAMMATIC TO CONVEY DESIGN INTENT. ACTUAL LOCATION AND NUMBER OF PARKING LOT ISLANDS SHALL BE VERIFIED IN FIELD AND LOCATED TO RETAIN PROTECTED TREES AS DIRECTED BY LANDSCAPE ARCHITECT.

5. ALL CONDITIONS NECESSITATING THE REMOVAL OR PRUNING OF A TREE SHALL BE REVIEWED BY LANDSCAPE ARCHITECT. LOCATIONS OF ANY IMPROVEMENTS WITH THE POTENTIAL OF IMPACTING TREES SHALL BE STAKED/DELINEATED PRIOR TO THE FIELD REVIEW.

6. ALL WOODY MATERIAL TO BE REMOVED SHALL BE CHIPPED INTO MULCH AND DISTRIBUTED ON SITE WITHIN RPZ'S AT TREES ADJACENT TO CONSTRUCTION AND NATURAL AREAS ATA DEPTH OF 2".

7. PROTECTED AND HERITAGE TREES SHALL BE REMOVED ONLY UNDER THE FOLLOWING SITUATIONS.

- A.

CUT/FILL GREATER THAN FOUR(4") INCHES TO TAKE PLACE BENEATH THE DRIPLINE OF A TREE EXCEEDS 50% OF THE ROOT PROTECTION ZONE (RPZ).
- B.

CONSTRUCTION OF A BUILDING OR OTHER IMPROVEMENTS THAT REQUIRE THE REMOVAL OF MORE THAN 30% OF THE VIABLE PORTION OF A TREE CROWN.
- C.

POOR CONDITION OF TREE.

8. BARRICADE FENCING SHALL BE PLACED TO PROTECT RPZ OF ALL TREES TO REMAIN THAT ARE ADJACENT TO CONSTRUCTION OR DISTURBED AREAS UNLESS OTHERWISE APPROVED BY LANDSCAPE ARCHITECT TO PROVIDE ACCESS TO WORK. IN THESE INSTANCES THE MINIMUM DISTANCE FOR BARRICADE FENCING FROM TRUNK SHALL BE EQUAL TO 50% MINIMUM OF RPZ. MINIMUM DISTANCE BARRICADE TO BE ERECTED IS 5'-0" FROM TRUNK OF TREE OR CLUMP OF TREES. REFER TO DETAIL THIS SHEET FOR TREE BARRICADE FENCING. SEE DETAIL THIS SHEET.

9. CONSTRUCTION ENVELOPE SHALL BE LIMIT OF AREA WITHIN SELECTIVE CLEARED AREA, WHICH CAN BE COMPLETELY DISTURBED BY CONSTRUCTION. ANY PROTECTED OR HERITAGE TREES ENCOUNTERED ARE TO BE REVIEWED ON AN INDIVIDUAL BASIS TO DETERMINE IF THEY MAY REMAIN WITHOUT MAJOR MODIFICATION TO IMPROVEMENTS TO BE CONSTRUCTED.

10. TREES LOCATED WITHIN SEVENTEEN (17) FEET OF TRAIL CENTER LINE WILL RECEIVE TREE ARMOR.

11. EXISTING TREES WITHIN TRAIL SHOULDER ARE TO BE REVIEWED AND APPROVED FOR REMOVAL BY OWNER PRIOR TO REMOVAL.

TREE PRESERVATION NOTES:

1. EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PRESERVED UNLESS OTHERWISE INDICATED. THE CONTRACTOR IS TO STAKE THE PROPOSED IMPROVEMENTS FOR REVIEW BY THE LANDSCAPE ARCHITECT. TREES TO REMAIN SHALL BE PROTECTED AS NOTED BELOW. EXISTING TREES, OUTSIDE THE LIMITS OF CONSTRUCTION, ARE TO BE PRESERVED FROM ANY DAMAGE BY THE CONTRACTOR. ANY TREES DAMAGED BY THE CONTRACTOR WILL BE REPLACED AS DETERMINED BY THE LANDSCAPE ARCHITECT.

2. ORANGE MESH BARRIER FENCE SHALL BE ERECTED AT THE LIMITS OF CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED. THE FENCING WILL ALSO BE ERECTED AROUND THE ROOT PROTECTION ZONE (RPZ) OF TREES THAT ARE TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. THE RPZ SHALL BE DETERMINED BY THE TREE SIZE (RECOMMENDED 12" RADIUS FROM THE TRUNK FOR EVERY 1" DIAMETER OF TRUNK AT 6" ABOVE GROUND) WITH A MINIMUM OF 30" RADIUS. FENCE TREE GROUPINGS WHERE POSSIBLE.

3. RPZ SHALL BE SUSTAINED IN A NATURAL STATE AND SHALL BE FREE FROM VEHICULAR OR MECHANICAL TRAFFIC. NO FILL EQUIPMENT, LIQUIDS OR CONSTRUCTION DEBRIS SHALL BE PLACED INSIDE THE PROTECTIVE BARRIER.

4. THE RPZ SHALL BE COVERED WITH MULCH TO REDUCE MOISTURE STRESS.

5. NO WORK SHALL BEGIN WHERE THE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING WILL BE A MINIMUM OF 4' HEIGHT.

6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE WORK DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.

7. ALL TREES CLEARED FOR CONSTRUCTION WILL BE CHIPPED ON SITE AND THE CHIPPED MATERIAL WILL BE SPREAD IN A 2" THICK LAYER OVER BARE SOIL ADJACENT TO THE IMPROVEMENT AS DIRECTED BY THE LANDSCAPE ARCHITECT.

8. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND/OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.

9. EXISTING UNDERSTORY VEGETATION IS TO BE PRESERVED WHEREVER POSSIBLE.

10. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.

11. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE LANDSCAPE ARCHITECT'S SPECIFICATIONS.

12. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.

13. NO WIRES, NAILS OR OTHER MATERIALS MAY BE ATTACHED TO PROTECTED TREES.

14. ACCESS TO FENCED AREAS WILL ONLY BE PERMITTED WITH APPROVAL OF LANDSCAPE ARCHITECT OR CITY INSPECTOR.

15. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.

16. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.

17. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).

18. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.

19. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.

20. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

21. ANY DAMAGE DONE TO EXISTING TREE CROWNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY. ALL WOUNDS TO LIVE OAKS WILL BE PAINTED WITH PRUNING PAINT WITHIN MINUTES AFTER DAMAGE. ROOTS EXPOSED DURING CONSTRUCTION OPERATIONS WILL BE CUT CLEANLY.

22. THE PROPOSED FINISHED GRADE AND ELEVATION OF LAND WITHIN THE ROOT PROTECTION ZONE OF ANY TREE TO BE PRESERVED SHALL NOT BE RAISED OR LOWERED MORE THAN 3". WELLING AND RETAINING METHODS ARE ALLOWED OUTSIDE THE RPZ.

23. THE RPZ SHALL REMAIN PERVIOUS, I.E. GROUND COVER OR TURF AT COMPLETION OF LANDSCAPE DESIGN.

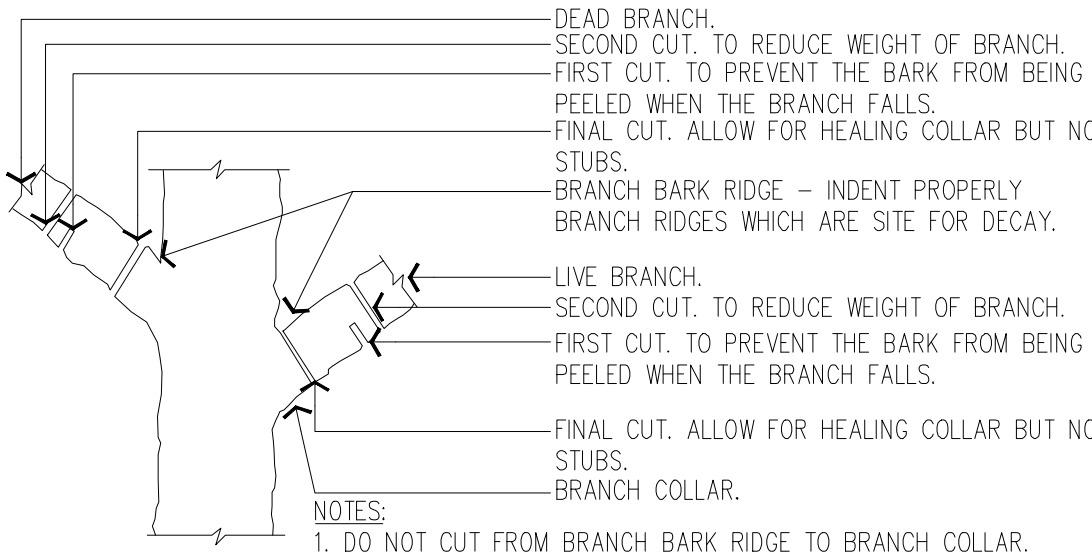
Final Tree Canopy Cover	
Total Tree Canopy Area=	1,274,710 sf
Required Canopy Coverage Percentage=	35%
Required Canopy Coverage=	446,149 sf
Existing Canopy=	1,274,710 sf
Canopy Coverage to be Removed=	8,185 sf
Canopy Coverage to be Removed Percentage=	0.6%
Canopy Coverage to be Preserved=	1,266,525 sf
Canopy Coverage to be Preserved Percentage=	99.4%
Total Final Tree Canopy Cover=	1,266,525 sf
Total Final Canopy Cover Percentage=	99.4%

TREE PRESERVATION NOTES:

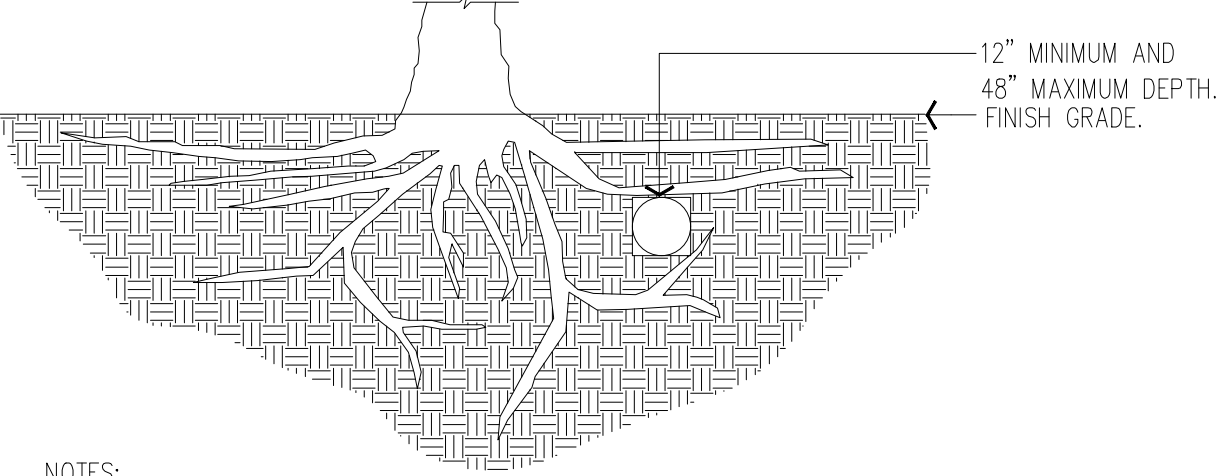
1. IF PROPOSED CONSTRUCTION DOES NOT INTERFERE WITH THE RPZ OF TREES TO BE PRESERVED, TREE PROTECTION LEVEL 1 SHALL BE USED.

2. IF PROPOSED CONSTRUCTION CROSSES WITHIN THE RPZ, BUT IS LESS THAN HALF THE DISTANCE FROM THE EDGE OF CANOPY TO THE TRUNK, TREE PROTECTION LEVEL IIA SHALL BE USED.

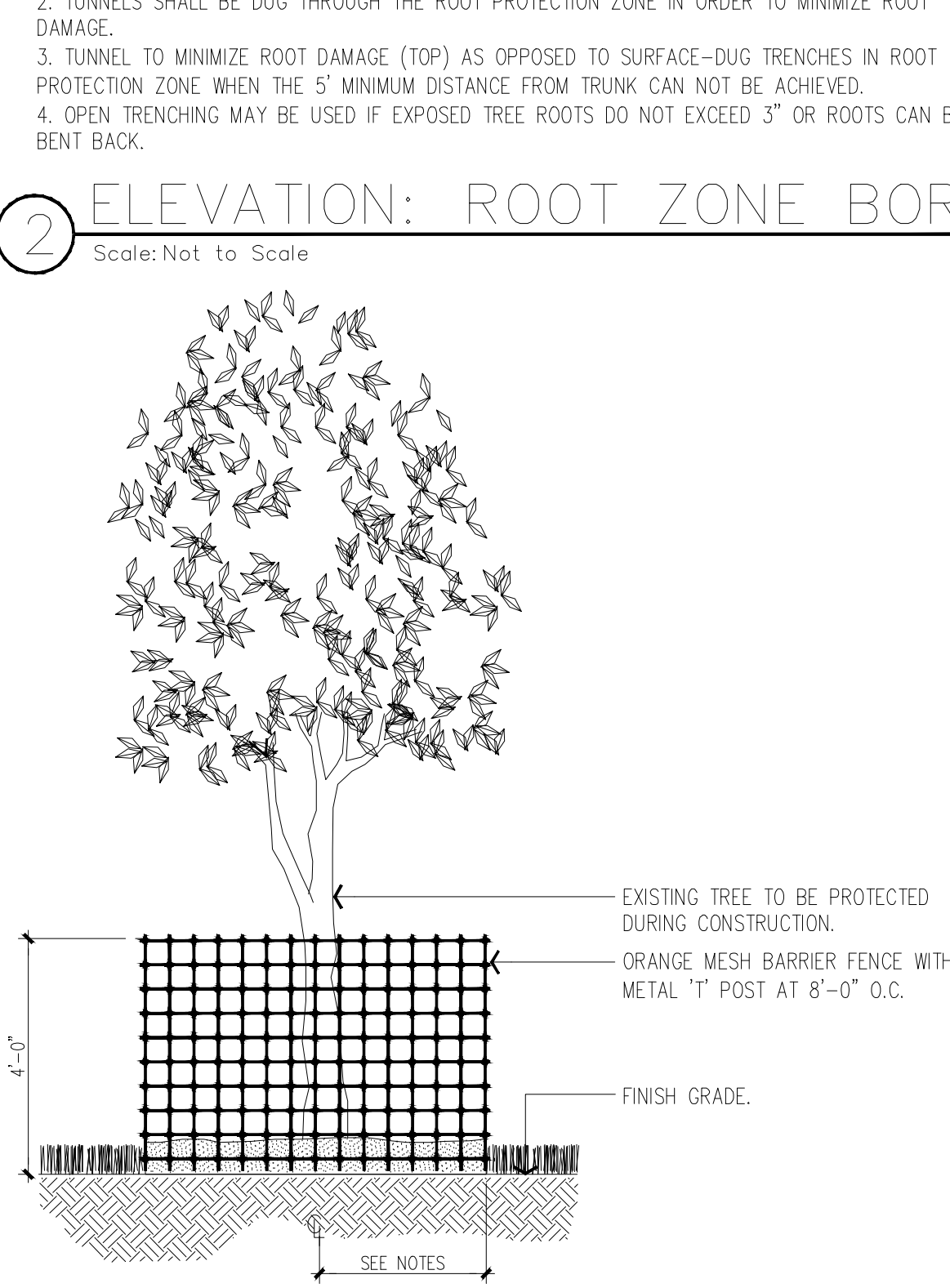
3. IF PROPOSED CONSTRUCTION CROSSES WITHIN THE RPZ, BUT IS GREATER THAN HALF THE DISTANCE FROM THE EDGE OF CANOPY TO THE TRUNK, TREE PROTECTION LEVEL IIB SHALL BE USED.



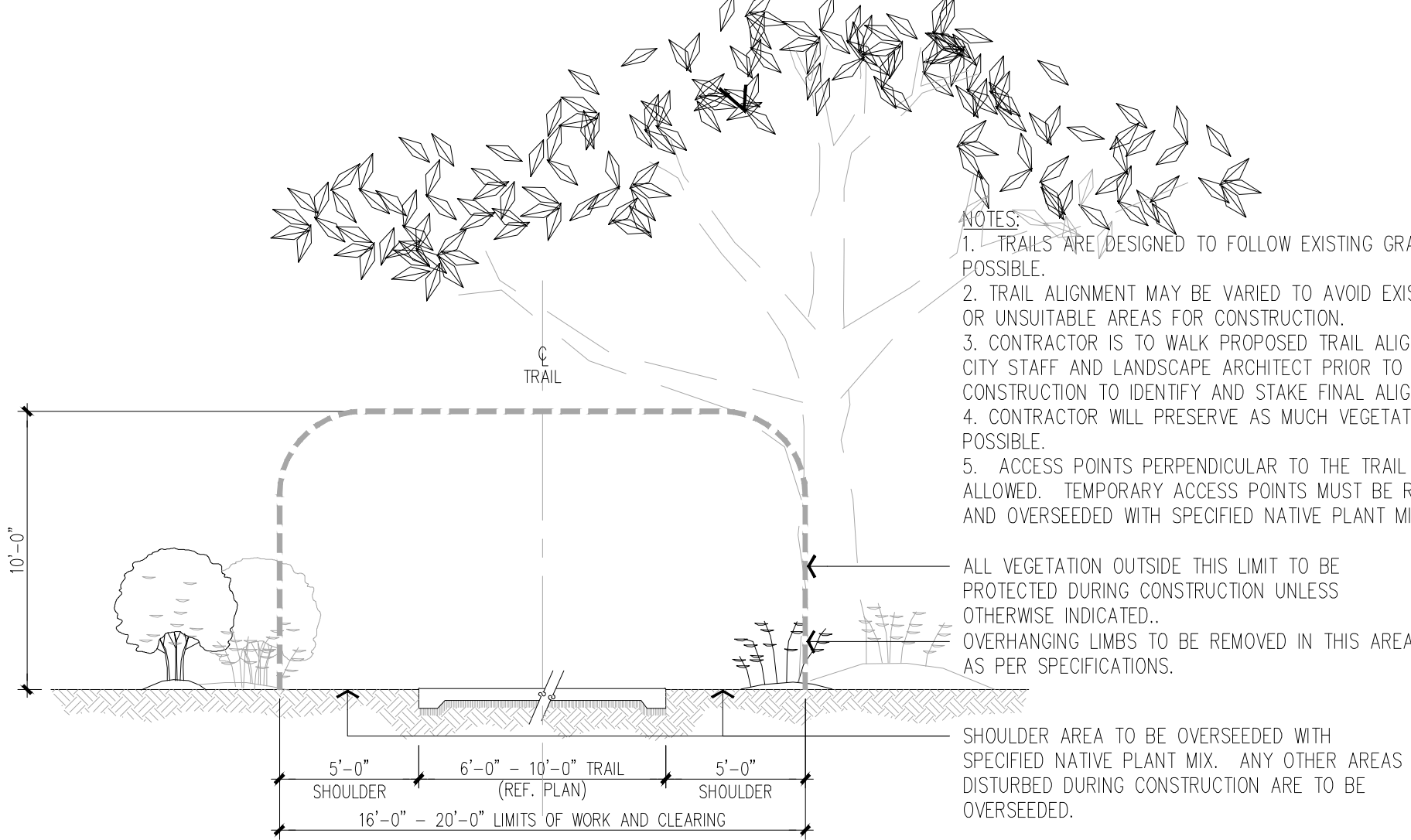
1 DETAIL: TREE PRUNING Scale: Not To Scale



2 ELEVATION: ROOT ZONE BORING Scale: Not to Scale



3 ELEVATION: TREE PROTECTION Scale: 3/8" = 1'-0"



4 ELEVATION: TRAIL CLEARING Scale: 3/16" = 1'-0"



terra design group, inc.
4040 broadway, suite 103
san antonio, texas 78209
210.220.1400
wheard@terraesignsa.com

AS-BUILTS
THIS SET OF AS-BUILTS WERE
PRODUCED IN ACCORDANCE TO
REDLINES PROVIDED BY THE
GENERAL CONTRACTOR TO THE
LANDSCAPE ARCHITECT AND
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CONDITIONS AT THE COMPLETION
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7/15/2024

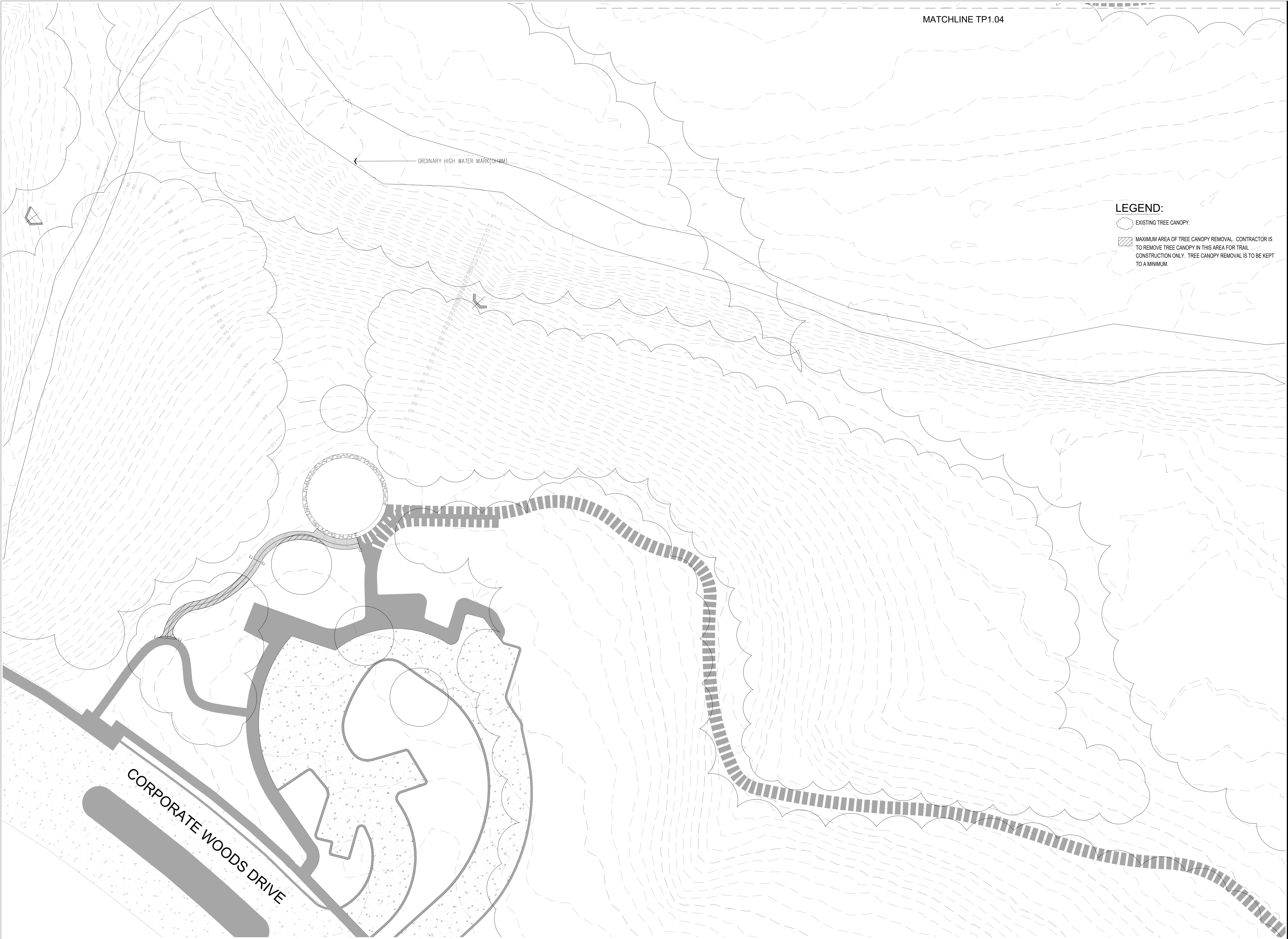
GOLD
CANYON
PARK

18402 Corporate Woods Dr
San Antonio, Texas 78259

REVISION	DATE
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Project no:
Date: September 29, 2022
Sheet: X of XX

TREE
PRESERVATION
NOTES
TPN 1.01
Construction Documents



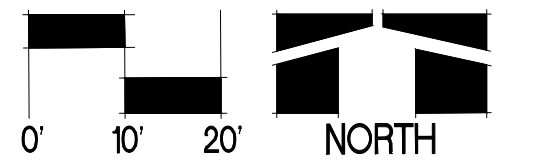
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GOLD CANYON PARK

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San Antonio, Texas 78259

REVISION DATE

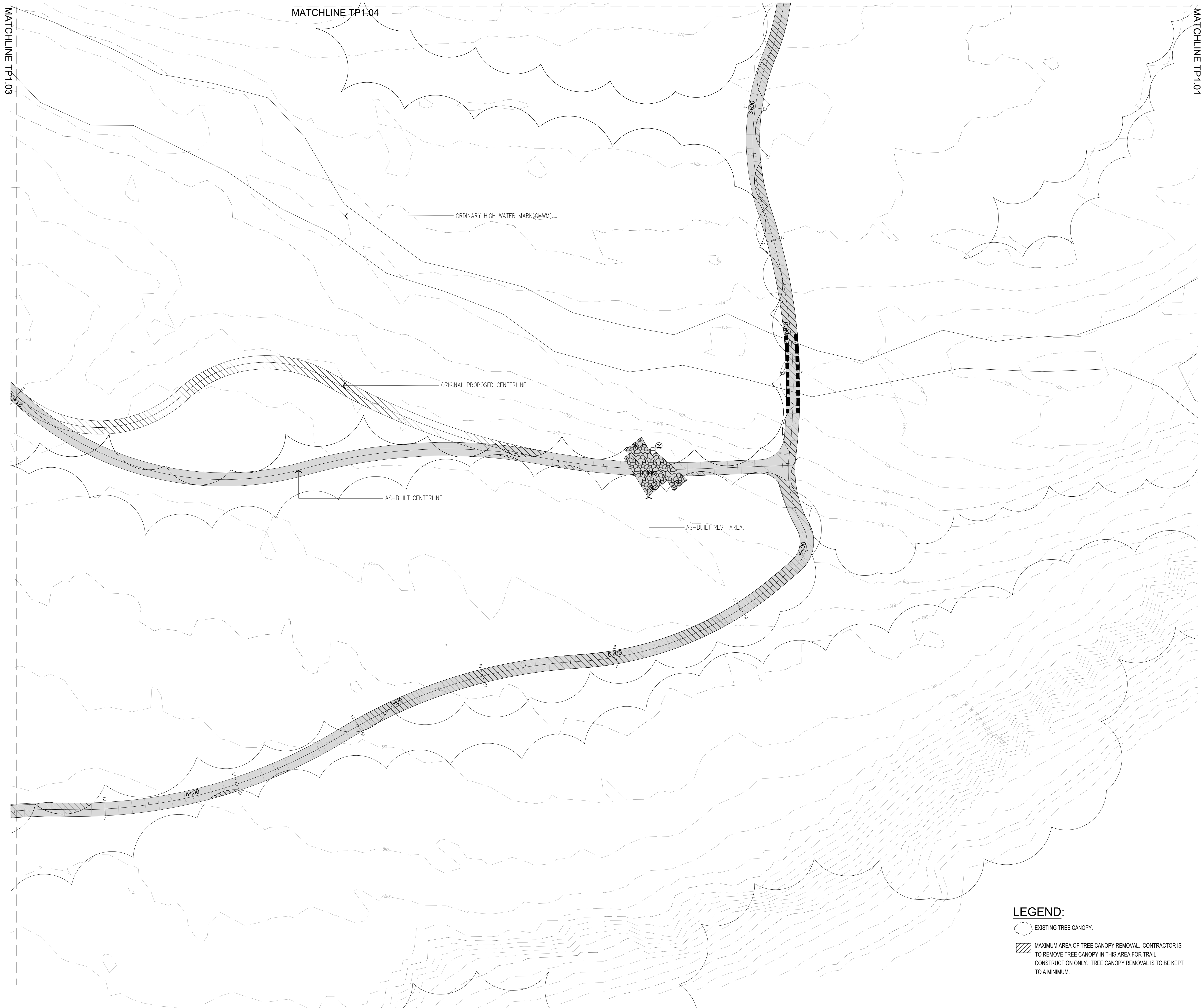


Project no: September 29, 2022
Date: X of XX
Sheet: X of XX

TREE PRESERVATION

TP 1.01

Construction Documents



LEGEND:

- EXISTING TREE CANOPY.
- MAXIMUM AREA OF TREE CANOPY REMOVAL. CONTRACTOR IS TO REMOVE TREE CANOPY IN THIS AREA FOR TRAIL CONSTRUCTION ONLY. TREE CANOPY REMOVAL IS TO BE KEPT TO A MINIMUM.

REGISTERED LANDSCAPE ARCHITECT

WALTER H. HEARD

629

STATE OF TEXAS

Walter H. Heard

12.22.22

Tdg

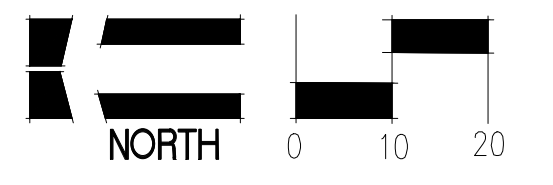
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CANYON
PARK

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REVISION	DATE
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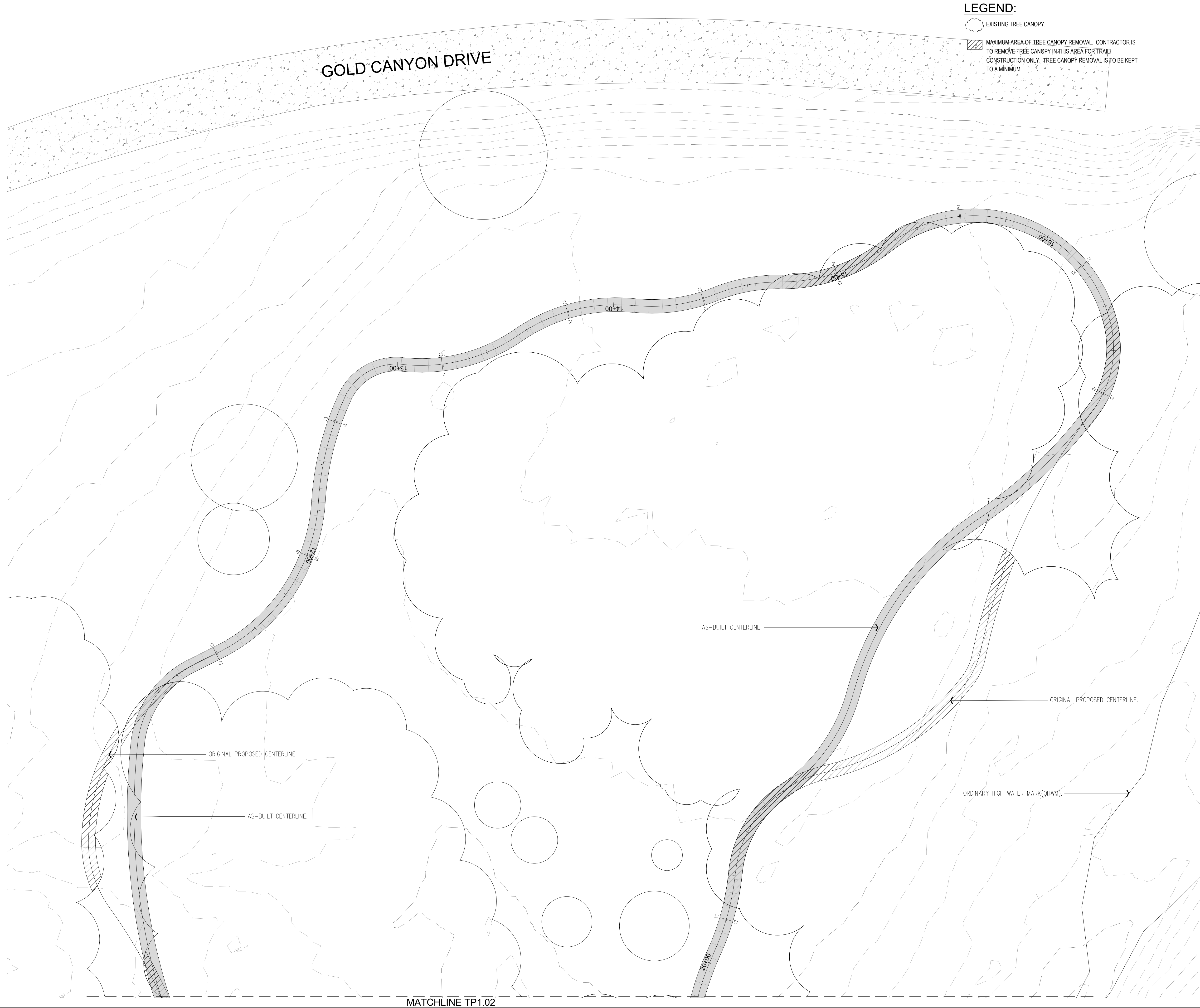


Project no:
Date: September 29, 2022
Sheet: X of XX

TREE
PRESERVATION

TP 1.02

Construction Documents



LEGEND:

- EXISTING TREE CANOPY.
- MAXIMUM AREA OF TREE CANOPY REMOVAL. CONTRACTOR IS TO REMOVE TREE CANOPY IN THIS AREA FOR TRAIL CONSTRUCTION ONLY. TREE CANOPY REMOVAL IS TO BE KEPT TO A MINIMUM.



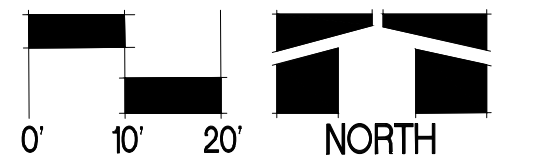
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7/15/2024

GOLD CANYON PARK

18402 Corporate Woods Dr
San Antonio, Texas 78259

REVISION	DATE
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Project no:
Date: September 29, 2022
Sheet: X of XX

**TREE
PRESERVATION**

TP 1.03

Construction Documents



LEGEND:

- EXISTING TREE CANOPY.
- MAXIMUM AREA OF TREE CANOPY REMOVAL. CONTRACTOR IS TO REMOVE TREE CANOPY IN THIS AREA FOR TRAIL CONSTRUCTION ONLY. TREE CANOPY REMOVAL IS TO BE KEPT TO A MINIMUM.



Walter H. Heard
12.22.22



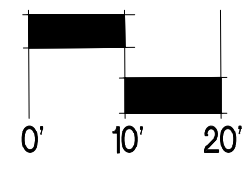
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GOLD
CANYON
PARK

18402 Corporate Woods Dr
San Antonio, Texas 78259

REVISION	DATE
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0' 10' 20' NORTH

Project no:
Date: September 29, 2022
Sheet: X of XX

TREE
PRESERVATION

TP 1.04

Construction Documents



Walter H. Heard
12.22.22



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7/15/2024

GOLD CANYON PARK

18402 Corporate Woods Dr
San Antonio, Texas 78259

REVISION DATE

Project no:
Date: September 29, 2022
Sheet: X of XX

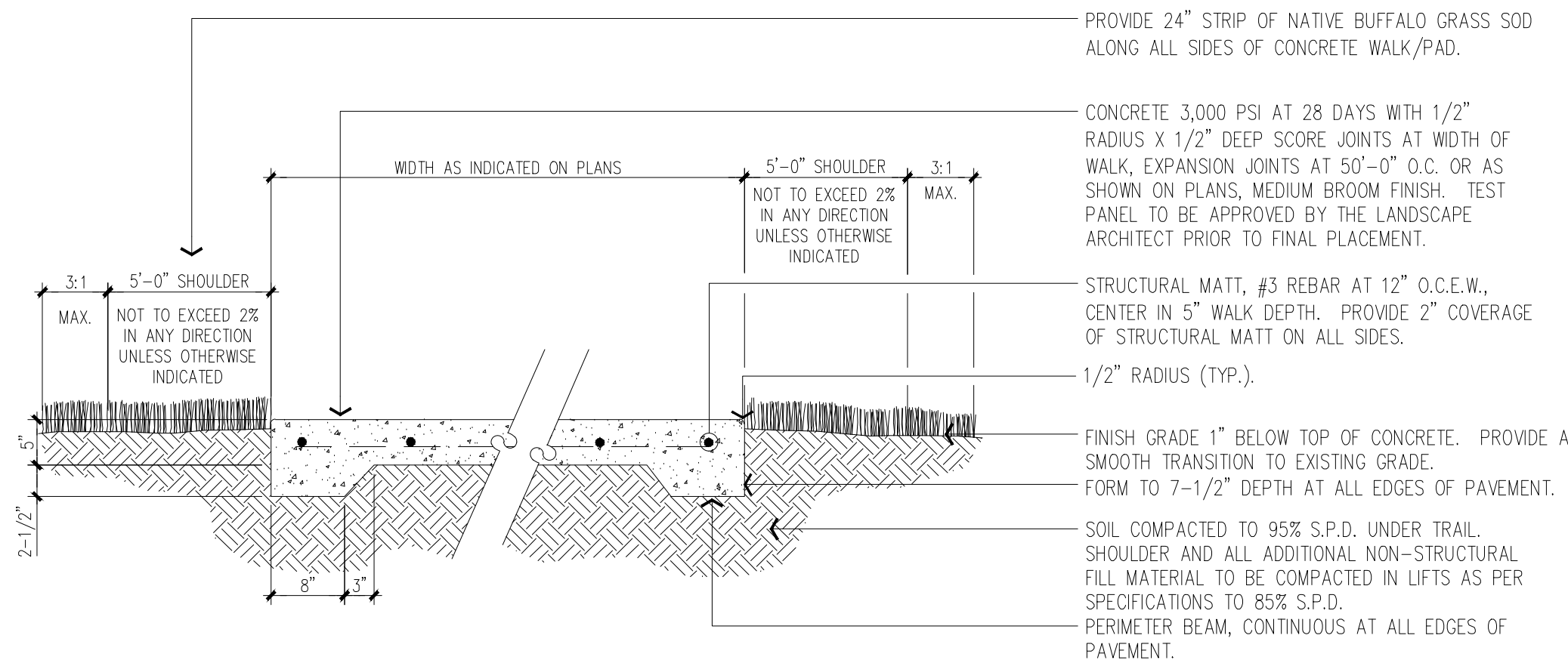
SITE
DETAILS

DT 1.01

Construction Documents

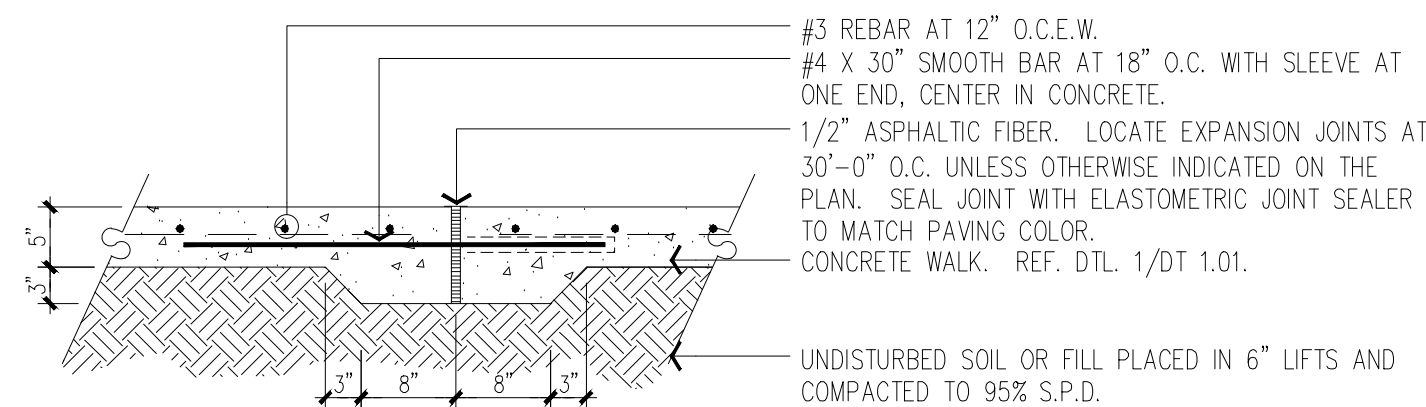
NOTES:

1. ACCEPTABLE MATERIAL FOR FORMS: 2" NOMINAL THICKNESS LUMBER, 1" NOMINAL THICKNESS LUMBER, 3/4" THICKNESS EXTERIOR PLYWOOD OR STEEL FORMS. KERF 2" LUMBER TO FORM SMOOTH CURVES. 1" LUMBER AND 3/4" PLYWOOD MAY NOT NEED TO BE KERFED.
2. MATERIALS NOT ACCEPTED FOR FORMS: MASONITE, PARTICLE BOARD, CHIP BOARD, OR "HARDI" TYPE MATERIAL.
3. ALL CONCRETE SHALL BE TYPE 1L CEMENT 3,000 PSI.



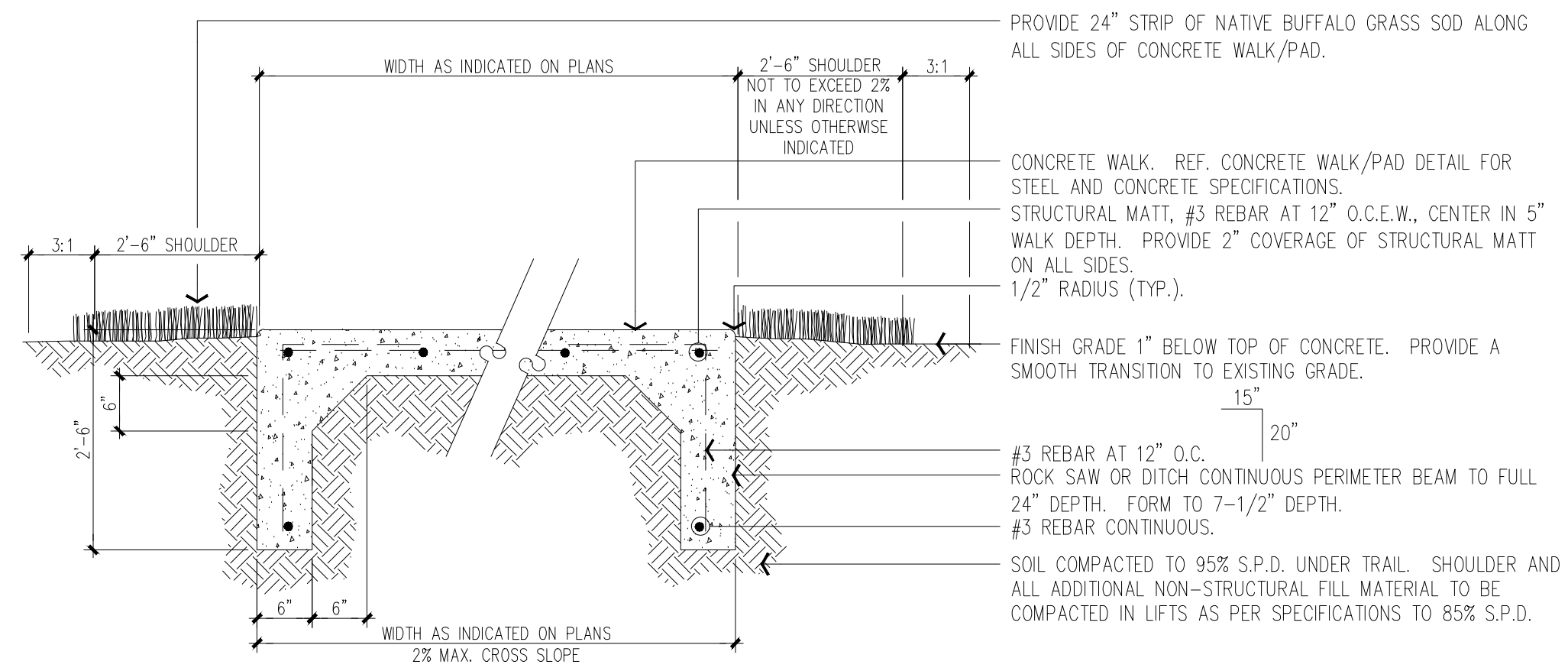
1 SECTION: CONCRETE WALK/PAD

Scale: 3/4" = 1'-0"



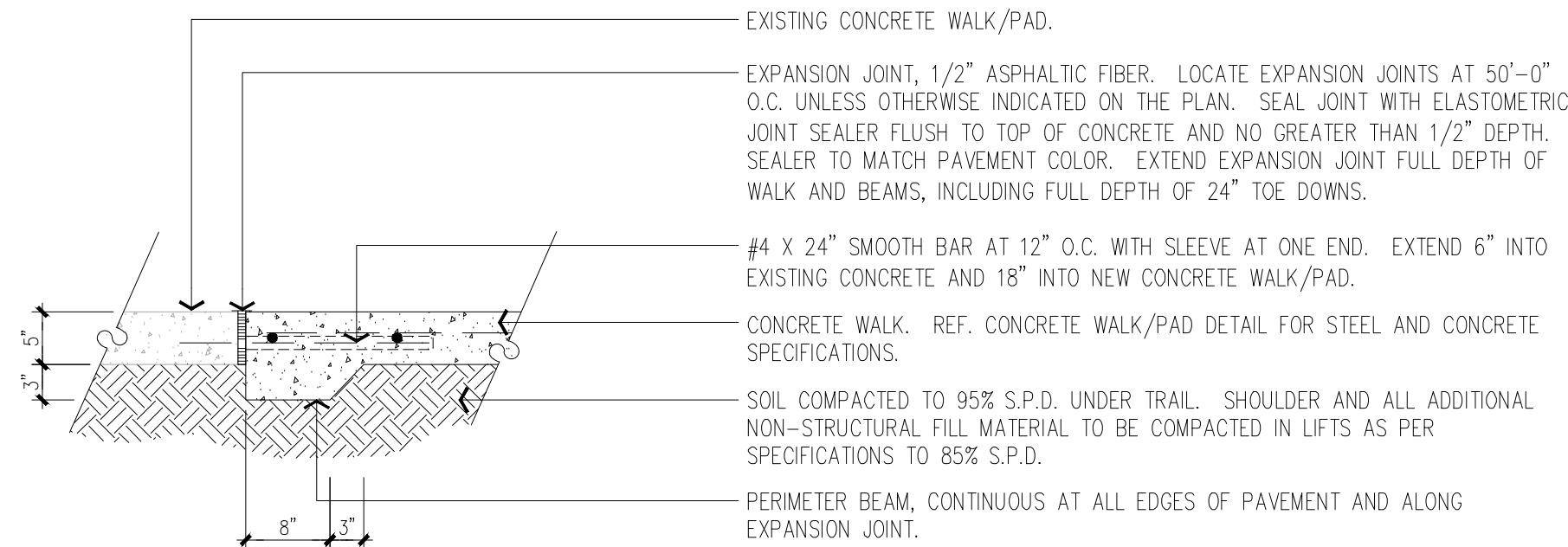
3 SECTION: EXPANSION JOINT

Scale: 3/4" = 1'-0"



2 SECTION: CONCRETE WALK WITH TOE DOWN

Scale: 3/4" = 1'-0"



4 SECTION: WALK AT EXISTING CONCRETE WALK

Scale: 3/4" = 1'-0"



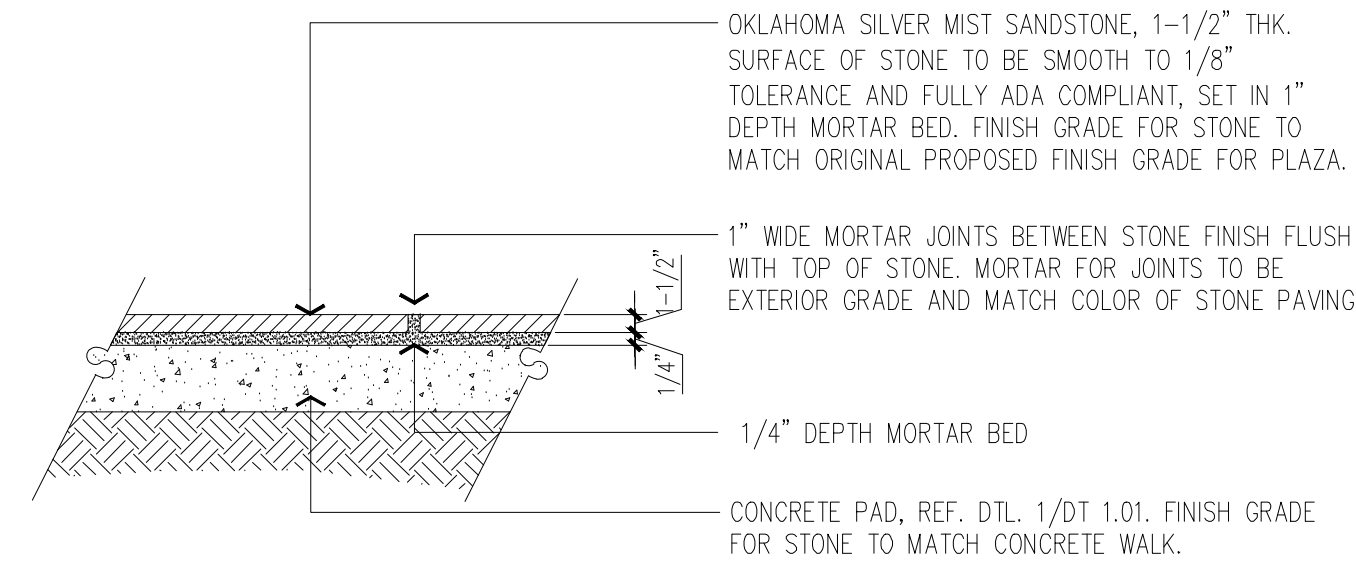
LIMESTONE BENCH.

FLAGSTONE PAVING, REF. DTL. 2/DT 1.05.

CONCRETE PAD PER DTL. 1/DT 1.01. PROVIDE SCORE JOINTS AND EXPANSION JOINTS AS SHOWN. REF. DTL. 3/DT 1.01. (TYP.).

TRASH AND RECYCLE RECEPTACLE. MODEL NO. GRTR2-26-PST, AS MANUFACTURED BY THOMAS STEELE OR APPROVED EQUAL. RECEPTACLE TO BE IN GROUND INSTALLED PER MANUFACTURES SPECIFICATIONS. COLOR TO BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE. LANDSCAPE ARCHITECT TO VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION.

CONCRETE TRAIL. REF. DTL. 1/DT 1.01.



OKLAHOMA SILVER MIST SANDSTONE, 1-1/2" THK. SURFACE OF STONE TO BE SMOOTH TO 1/8" TOLERANCE AND FULLY ADA COMPLIANT, SET IN 1" DEPTH MORTAR BED. FINISH GRADE FOR STONE TO MATCH ORIGINAL PROPOSED FINISH GRADE FOR PLAZA.

1" WIDE MORTAR JOINTS BETWEEN STONE FINISH FLUSH WITH TOP OF STONE. MORTAR FOR JOINTS TO BE EXTERIOR GRADE AND MATCH COLOR OF STONE PAVING.

1/4" DEPTH MORTAR BED

CONCRETE PAD, REF. DTL. 1/DT 1.01. FINISH GRADE FOR STONE TO MATCH CONCRETE WALK.

SECTION: STONE FLAGGING

Scale: 3/4" = 1'-0"

PLAN: TRAIL NODE REST AREA

Scale: 1"=5'-0"



Walter H. Heard
12.22.22



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7/15/2024

GOLD CANYON PARK

18402 Corporate Woods Dr
San Antonio, Texas 78259

REVISION DATE

Project no:
Date: September 29, 2022
Sheet: X of XX

SITE
DETAILS

DT 1.02

Construction Documents

Attachment G

Inspection, Maintenance, Repair, And Retrofit Plan

Gold Canyon Park
1842 Corporate Woods Dr.
San Antonio, Tx 78249

Permanent Pollution Abatement Measures Maintenance Schedule and Maintenance Procedures

This document has been prepared to provide a description and schedule for the performance of maintenance of permanent pollution abatement measures for Gold Canyon Park. Maintenance measures to be performed will be dependent on what permanent pollution abatement measures are incorporated into the project. The project specific water pollution abatement plan should be reviewed to determine what permanent pollution abatement measures are incorporated into a project.

Where a project is occupied by the owner, the owner may provide for maintenance with his own skilled forces or contract for recommended maintenance of Permanent Best Management Practices. Where a project is occupied or leased by a tenant, the owner shall require tenants to contract for such maintenance services either through a lease agreement, property owners' association covenants, or other binding document.

Vegetative Filter Strips

Once a vegetated area is well established, little additional maintenance is generally necessary. The key to establishing a viable vegetated feature is the care and maintenance it receives in the first few months after it is planted. Once established, all vegetated BMPs require some basic maintenance to ensure the health of the plants including:

Pest Management. An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.

Seasonal Mowing and Lawn Care. If the filter strip is made up of turf grass, it should be mowed as needed to limit vegetation height to 18 inches, using a mulching mower (or removal of clippings). If native grasses are used, the filter may require less frequent mowing, but a minimum of twice annually. Grass clippings and brush debris should not be deposited on vegetated filter strip areas. Regular mowing should also include weed control practices; however, herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients. Irrigation of the site can help assure a dense and healthy vegetative cover.

Inspection. Inspect filter strips at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The strip should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-

term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and 3-91 restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.

Debris and Litter Removal. Trash tends to accumulate in vegetated areas, particularly along highways. Any filter strip structures (i.e. level spreaders) should be kept free of obstructions to reduce floatable being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than 4 times per year.

Sediment Removal. Sediment removal is not normally required in filter strips, since the vegetation normally grows through it and binds it to the soil. However, sediment may accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be removed by hand or with flat-bottomed shovels.

Grass Reseeding and Mulching. A healthy dense grass should be maintained on the filter strip. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during filter strip establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Corrective maintenance, such as weeding or replanting should be done more frequently in the first two to three years after installation to ensure stabilization. Dense vegetation may require irrigation immediately after planting, and during particularly dry periods, particularly as the vegetation is initially established. Documentation Procedures

1. A copy of the inspection report along with referenced maintenance task/ procedure descriptions are located on the following pages.
2. The inspection report must be maintained by responsible party and shall be readily available upon request.
3. The inspection report is incorporated as part of the WPAP. The responsible party is responsible for completing and updating the form in compliance with TCEQ rules.

I understand that I am responsible for maintenance of the Permanent Pollution Abatement Measures included in this project, Gold Canyon Located at: 1842 Corporate Woods Dr. San Antonio, Tx 78249 until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property or ownership is transferred.

I, the owner, have read and understand the requirements of the Maintenance Schedule & Maintenance Procedures outlined here-in and in the attached Inspection & Maintenance Schedule along with the referenced maintenance task/ procedure descriptions.:

Signature



Date

12-14-22

Print Name

Director

Title

**INSPECTION AND MAINTENANCE SCHEDULE FOR PERMANENT POLLUTION
ABATEMENT MEASURES
GOLD CANYON PARK,
1842 CORPORATE WOODS DR.
SAN ANTONIO, TX 78249**

Recommended Frequency	Tasks to be performed																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
After Significant Rainfall																				
Biannually																				

*At least one biannual inspection must occur during or immediately after a rainfall event.

✓ Indicates maintenance procedure that applies to this specific site

See description of maintenance task to be performed on the following pages. Frequency of maintenance tasks may vary depending on amount of rainfall and other weather-related conditions.

A written record should be kept of inspection reports and maintenance performed

Task No Description				
1	Pest Management	Yes	No	N/A
2	Seasonal Mowing & Lawn Care	Yes	No	N/A
3	Inspection	Yes	No	N/A
4	Debris and Litter Removal	Yes	No	N/A
5	Sediment Removal	Yes	No	N/A
6	Grass Reseeding and Mulching	Yes	No	N/A

By my signature below, I certify that all items have been inspected and are acceptable & in compliance with TCEQBMP regulations or have been recommended for repair as noted.

Inspector's Name

Inspector's Signature

Name of owner/Operator (firm)

Date

MAINTENANCE PROCEDURES FOR PERMANENT POLLUTION ABATEMENT MEASURES

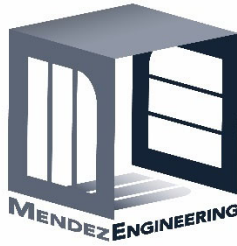
- 1 Vegetated Filter Strips. Vegetation height for native grasses shall be limited to no more than 18-inches. When vegetation exceeds that height, the filter strip shall be cut to a height of approximately 4 inches. Turf grass shall be limited to a height of 4inches with regular maintenance that utilizes a mulching mower. Trash and debris shall be removed from filter strip prior to cutting. Check filter strip for signs of concentrated flow and erosion. Areas of filter strip showing signs of erosion shall be repaired by scarifying the eroded area, reshaping, regarding and placement of block sod in a checkerboard pattern over the affected area. A written record should be kept of inspection results and maintenance performed

ATTACHMENT H
Pilot-Scale Field Testing Plan

Not applicable to this project

ATTACHMENT I
Measured for Minimizing Surface
Stream Contamination

Not applicable to this project



SECTION H

Agent Authorization – Form TCEQ-0599

Application Fee – Form TCEQ-0574

Copy of Check

TCEQ Core Data – Form TCEQ-10400

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

I _____ Jamaal Moreno _____,
Print Name
_____ Project Manager _____,
Title - Owner/President/Other
of _____ City of San Antonio _____,
Corporation/Partnership/Entity Name
have authorized _____ Ray Mendez, PE, CFM, RGDP _____
Print Name of Agent/Engineer
of _____ Mendez Engineering, PLLC _____,
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:

[Signature]
Applicant's Signature

~~12-02-2022~~ 12-02-2022
Date

THE STATE OF Texas §

County of Bexar §

BEFORE ME, the undersigned authority, on this day personally appeared JAMAIL MORENO 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 2nd day of December, 2022

[Signature]
NOTARY PUBLIC



Laura Banis
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 07/09/23

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Gold Canyon Park.

Regulated Entity Location: S of Gold Canyon Dr E of Corporate Woods Dr

Name of Customer: City of San Antonio

Contact Person: Jamaal Moreno

Phone: (210)207-6924

Customer Reference Number (if issued):CN 600130652

Regulated Entity Reference Number (if issued):RN 107703050

Austin Regional Office (3373)

☐ Hays

☐ Travis

☐ Williamson

San Antonio Regional Office (3362)

☒ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☐ Austin Regional Office

☒ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	56.52 Acres	\$ 6,500
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: Jamaal Moreno

Date: 12-1-2022

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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

REPLACE WITH COPY OF CHECK



TCEQ Use Only

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 Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600130652		RN 107703050

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
☐ New Customer		☒ Update to Customer Information	
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		☐ Change in Regulated Entity Ownership	
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		<i>If new Customer, enter previous Customer below:</i>	
City of San Antonio			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:	☐ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other	☐ Sole Proprietorship	☐ Other:	
12. Number of Employees		13. Independently Owned and Operated?	
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 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 ☐ Owner & Operator			
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:			
15. Mailing Address:	P.O. Box 839966		
	City	San Antonio	State TX ZIP 78205 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		Jamaal.Moreno@SanAntonio.Gov	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(210) 207-6924		() -	

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)		
☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information		
The Regulated Entity Name submitted may be updated in order to meet TCEQ 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.)		
Gold Canyon Park		

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	18402 Corporate Woods Dr, San Antonio, TX 78259							
	City	SanAntonio	State	TX	ZIP	78258	ZIP + 4	
24. County	Bexar							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	S of Gold Canyon Dr E of coprorate woods Dr.							
26. Nearest City						State	Nearest ZIP Code	
San Antonio						Tx	78258	
27. Latitude (N) In Decimal:	29.60917			28. Longitude (W) In Decimal:	98.44111			
Degrees	Minutes	Seconds		Degrees	Minutes	Seconds		
29	36	33		98	26	28		
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
7999			713990					
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>								
CITY GOVERNMENT								
34. Mailing Address:	P.O. Box 839966							
	City	San Antonio	State	TX	ZIP	78205	ZIP + 4	
35. E-Mail Address:								
36. Telephone Number		37. Extension or Code			38. Fax Number (if applicable)			
(210) 207-8022					() -			

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

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

SECTION IV: Preparer Information

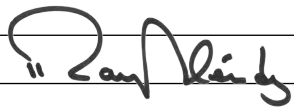
40. Name:	Ray Mendez, PE, CFM, RGDP	41. Title:	President
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(210) 802-0808		() -	RMendez@MendezEngineering.com

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:	Mendez Engineering, PLCC	Job Title:	President
Name (In Print):	Ray Mendez, PE, CFM, RGDP	Phone:	(210) 803- 808

Signature:



Date:

9/10/2025