# Texas Commission on Environmental Quality Edwards Aquifer Application Cover Page

#### **Our Review of Your Application**

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

#### **Administrative Review**

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

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

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

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

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

#### **Technical Review**

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

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

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

#### **Mid-Review Modifications**

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

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

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

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

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

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

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

1. Regulated Entity N	C La	Cima S	2. Regulated Entity No.:								
3. Customer Name: Pedernales Elect				erative	INC	4. Ci	4. Customer No.: CN601327927				
5. Project Type: (Please circle/check one)	New		Modif	ication	1	Exter	ision	Exception			
6. Plan Type: (Please circle/check one)	WPAP C	ZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures		
7. Land Use: (Please circle/check one)	Residenti		Non-r	esiden	tial	>	8. Sit	e (acres):	7.5		
9. Application Fee:	\$5,000		10. Pe	ermai	ient I	BMP(	s):	Sedimentation/Filtration Pond			
11. SCS (Linear Ft.):	N/A		12. AS	ST/US	ST (No	o. Tar	ıks):	N/A			
13. County:	Hays		14. W	aters	hed:	× .		Upper San Marcos River			

# **Application Distribution**

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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

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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)	_X_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 _X_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						

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

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

Greg Ulcak, PE

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

1

11/14/24 Date

**FOR TCEQ INTERNAL USE ONL	.Y**	na da alter (gener navi alterativa) nava, na seconda					
Date(s)Reviewed:		Date Administratively Complete:					
Received From:	Correct Number of Copies:						
Received By:		Distribution Date:					
EAPP File Number:	File Number: Complex:						
Admin. Review(s) (No.):		No. AR R	No. AR Rounds:				
Delinquent Fees (Y/N):		Review T	w Time Spent:				
Lat./Long. Verified:		SOS Cust	SOS Customer Verification:				
Agent Authorization Complete/Notarized (Y/N):		Payable to TCEQ (Y/N):		/N):			
Core Data Form Complete (Y/N): Check: Signed (Y/N):							
Core Data Form Incomplete Nos.:		Less than 90 days old (Y/N):					

# **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: <u>Civil</u> Design Group, LLC (Greg Ulcak, PE)

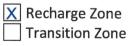
Date: 11/14/24

Signature of Customer/Agent:

, bleac

# **Project Information**

- 1. Regulated Entity Name: <u>PEC</u> La Cima Substation
- 2. County: Hays
- 3. Stream Basin: <u>Gua</u>dalupe River Basin
- 4. Groundwater Conservation District (If applicable): <u>N/A</u>
- 5. Edwards Aquifer Zone:



6. Plan Type:

Х	WPAP
	SCS
	Modification

AST UST Exception Request

TCEQ-0587 (Rev. 02-11-15)

1 of 4

7. Customer (Applicant):

Contact Person:Christian PowellEntity:Pedernales Electric CooperativeMailing Address:303 Colorado St., Suite 2300City, State:Austin, TexasTelephone:FAX:Email Address:FAX:

Zip: <u>7870</u>1 FAX: \_\_\_\_\_

8. Agent/Representative (If any):

Contact Person: <u>Greg</u> Ulcak,PE Entity: <u>Civil</u> Land Group, LLC Mailing Address: <u>206</u> West Main St., Ste. 101 City, State: <u>Round</u> Rock, Texas Telephone: <u>(512)</u> 992-0118 Email Address: <u>gulcak@civIndgrp.com</u>

Zip: <u>78664</u> FAX:

- 9. Project Location:
  - X The project site is located inside the city limits of <u>San Marcos</u>, Texas
  - 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. X 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 project is located at 2701 RR12, San Marcos Texas. Site is on west side of RR 12 at a driveway just south of Academy Drive & north of W.Centerpoint. 11. X Attachment A – Road Map. A road map showing directions to and the location of the

- 11. X 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. X 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:

X Project site boundaries.

X USGS Quadrangle Name(s).

- Boundaries of the Recharge Zone (and Transition Zone, if applicable).
- X Drainage path from the project site to the boundary of the Recharge Zone.
- 13. X 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.
  - X Survey staking will be completed by this date: 12-15-2024

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

Existing commercial site

- 15. Existing project site conditions are noted below:
  - Existing industrial site
  - \_\_\_\_ Existing residential site

Existing paved and/or unpaved roads

Undeveloped (Cleared)

X Undeveloped (Undisturbed/Uncleared)

Other:

# **Prohibited Activities**

- 16. X 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. NAI 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

TCEQ-0587 (Rev. 02-11-15)

(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.

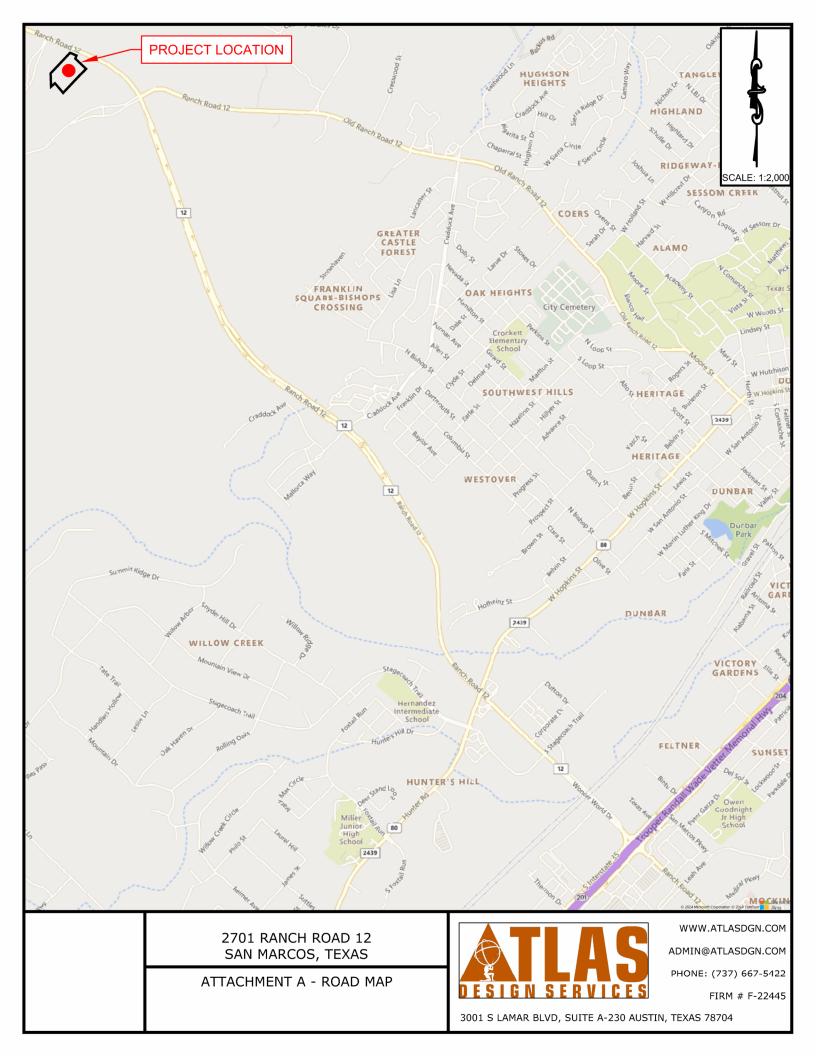
# Administrative Information

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

### X TCEQ cashier via TCEQ EPAY

 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. X 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. submitted electronically
- 21. X 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.





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

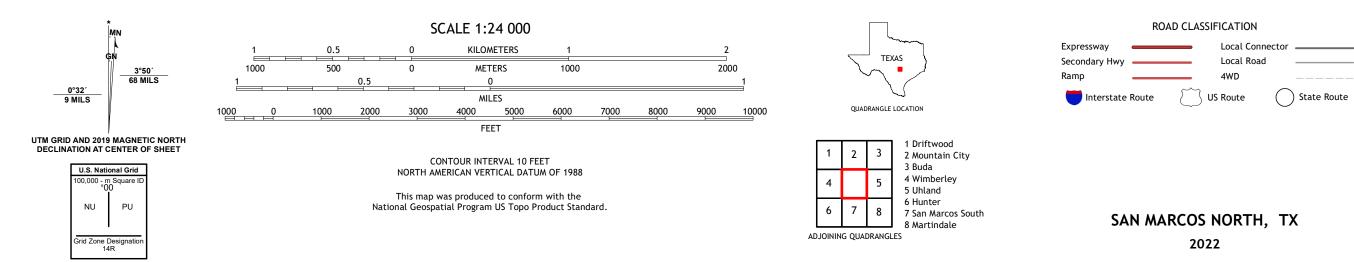


SAN MARCOS NORTH QUADRANGLE TEXAS 7.5-MINUTE SERIES





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





# LA CIMA SUBSTATION

# **ATTACHMENT C – Project Description**

The site is 7.50 acres located at 2701 RR 12, Unit B, San Marcos, Texas 78666. This site lies within the Edward's Aquifer Recharge Zone.

This site is currently undeveloped with zero impervious cover.

The proposed project will be an electric substation for Pedernales Electric Corporation, Inc. (PEC)

The proposed site will include 2.55 acres of impervious cover (34.0%). The impervious cover requires a total TSS removal of 2190 lbs. The proposed Sand Filter is 89% efficient and will remove of 2190 lbs of TSS.

The TSS calculations are included on the Construction Plans - Drawing # C-114.

Site Summary:

Site Area: 7.50 acre Offsite Area: N/A Impervious Cover: 34% Permanent BMP(s): Sand Filter Proposed Site Use: Electric Substation Site History: Site is an undeveloped portion of La Cima Master Planned Community Previous Development: Undeveloped Areas to be demolished: None

# '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.

### GENERAL WARRANTY DEED

GF# 2338466-COM

STATE OF TEXAS	

COUNTY OF HAYS

Date: Effective October 4, 2024

Grantor: LA CIMA COMMERCIAL, LP, a Texas limited partnership

§ § §

 Grantee:
 PEDERNALES ELECTRIC COOPERATIVE, INC., a Texas electric cooperative corporation

 Address:
 PO Box 1

 Johnson City, TX 78636
 Blanco County

### Consideration:

The sum of Ten and No/100 Dollars (\$10.00) and other good and valuable cash consideration in hand paid by Grantee to Grantor, the receipt and sufficiency of which is hereby acknowledged, and for the payment of which no lien, express or implied, is retained against the Property.

### Property (including any improvements):

Being 7.5 acres of land, more or less, out of the JOHN WILLIAMS SURVEY, ABSTRACT NO. 490 and the JOHN MAXIMILIAN, JR. SURVEY NO. 15, ABSTRACT NO. 299, Hays County, Texas, being out of that called 31.079 acres conveyed to La Cima Commercial LP in Document No. 17016156, Official Public Records, Hays County, Texas. Said 7.5 acres being more particularly described by metes and bounds attached hereto as Exhibit "A".

Reservations from and Exceptions to Conveyance and Warranty:

This conveyance is made and accepted subject to all matters of record affecting the Property and all matters apparent on the ground.

Grantor, for the consideration and subject to the reservations from and exceptions to the conveyance and warranty set forth herein, has GRANTED, SOLD AND CONVEYED and does hereby GRANT, SELL AND CONVEY to Grantee all of the Property, together with all and singular the improvements located thereon and all rights and appurtenances pertaining thereto, including all right, title and interest of Grantor in and to adjacent streets, alleys, rights-of-way, roadways, strips and gores, easements and in-the-ground utilities. TO HAVE AND TO HOLD the Property to Grantee, Grantee's heirs, executors, administrators, legal representatives, successors and assigns forever. Grantor binds Grantor and Grantor's heirs, executors, administrators, legal representatives, successors and assigns to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, executors, administrators, legal representatives, successors and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to conveyance and warranty set forth above.

To the extend Grantor owns any mineral rights, Grantor expressly waives rights to use the surface of the Property for any exploration, investigation, prospection, drilling, mining, producing or excavation of any minerals or other purpose related to the mineral estate. This is not intended to be a warranty or agreement that other parties owning mineral rights have the rights to use the surface as allowed by law.

### SIGNATURE AND NOTARY PAGE FOLLOWS

<u>GRANTOR</u>: LA CIMA COMMERCIAL, LP, a Texas limited partnership By: La Cima Commercial GP, LLC, General Partner

BY:

Bryan W. Lee, Manager

# STATE OF TEXAS § SCOUNTY OF TRAVIS §

This instrument was acknowledged before me on <u>September 27</u>, 2024, by Bryan W. Lee, Manager of La Cima Commercial GP, LLC, a Texas limited liability company, General Partner of LA CIMA COMMERCIAL, LP, a Texas limited partnership, on behalf of said partnership and company.



Notary Public's/Signature Notary State of TEXAS

## AFTER RECORDING, PLEASE RETURN TO:

#### Exhibit "A"

BEING a 7.500 acre tract of land lying in the John Williams Survey, Abstract 490 and in the John Maximillion Jr. Survey No. 15, Abstract 299, Hays County, Texos, same being a partien of a 31.079 acre tract of land described as Exhibit "B" and recorded in document number 17016156, Official Public Records of Hays County, Texos, same also being described as follows:

BEGINNING at a  $5/6^{\circ}$  iron rod found with Texas Department of Transportation Type III aluminum disk (Northing: 13,877,093,77, Easting: 2,238,535,22) in the southwest right-of-way line of R.M. Highway 12 (vorying width right-of-way) for the north corner of the aforementioned 31,079 acre tract, the south corner of a 0.0458 of an acre tract of land as described and recorded in document number 16006618, Official Public Records of Hays County, Texas, a west corner of a 0.464 of an acre tract of land as described and recorded in volume 4254, page 511, Official Public Records of Hays County, Texas, the east corner of a 4.337 acre tract of land described as Tract One" and recorded in volume 1080, page 874, Official Public Records of Hays County, Texas, and the north corner of the herein described 7,500 acre tract, from which a 1/2" iron rad found in the northwest line of sold 4.337 acre tract bears N81'37'38'W a distance of 122.24 test;

THENCE along the southwest right-of-way line of the aforementioned R.M. Highway 12, a northeast line of the aforementioned 31.079 acre tract and a southwest line of the diorementioned 0.454 of an acre tract, S66\*44'02\*E a distance of 147.44 feet (S66\*44'02\*E - 147.44') to a 5/8\* iron rod found with Texas Department of Transportation Type III cluminum disk for an interior corner of sold 0.454 of an acre tract and an east corner of the herein described 7.500 acre tract;

THENCE along a southeast line of the aforementioned 31.079 acre tract and a northwest line of the aforementioned 0.464 of an acre tract, \$23.05.26"W a distance of 19.99 feet to a 5/8" iron rad found with Texas Department of Transportation Type III aluminum disk in a southwest right-of-way line of the oforementioned R.M. Highway 12 for an interior corner of sold 31.079 acre tract, a west corner of sold 0.464 of an acre tract;

THENCE leaving the southwest right-of-way line of the aforementioned R.M. Highway 12, S23'05'26'W a distance of 46.36 feet a 1/2" iron rod set with plastic cap stamped "CDS/MUERY S.A. TX." for an interior corner of the herein described 7.500 acre tract;

THENCE 546'22'49'E a distance of 310.56 feet to a 1/2" iron rod set with plastic cop stamped "CD5/MUERY 5.4. TX." for an east corner of the herein described 7.500 acre tract, from which a 5/8" from rod found with Texas Department of Transportation. Type III aluminum disk in the southwest right-of-way line of the aforementioned R.M. Highway 12 and a northeast line of the aforementioned 31.079 acre tract for the east corner of the aforementioned 0.464 of an acre tract bears N78'45'57'E a distance of 310.95 feet;

THENCE S43'23'45'W a distance of 694.58 feet to a 1/2" iron rad set with plastic cap stamped "CDS/MUERY S.A. TX." in a southwest line of the oforementioned 31.0179 acre tract and the northeast line of Lot 1 of the La Clima Fire Station Plat as described and recorded in document number 21021091, Plat Records of Hoys County, Texas, for the south corner of the herein described 7.500 acre tract, from which a 1/2" iron rad found with plastic cap stamped "BCG" bears S40'23'45'E a distance of 181.93 feet (Record - S40'23'45'E);

THENCE along a southwest line of the aforementioned 31.079 acre tract and the northeast line of the aforementioned Lat 1, N40'23'45'W a distance of 253.02 feet (Record - N40'23'45'W) to a 1/2" from rod found with plastic cap stromped "BCG" for an interior corner of sold 31.079 acre tract, the north corner of sold Lat 1 and an interior corner of the herein described 7.500 acre tract;

THENCE along a southeast line of the aforementioned 31.079 acre tract and the northwest line of the aforementioned Lot 1, \$48'50'54'W a distance of 109.33 feet (Record - \$48'50'54'W - 109.93') to a 1/2" iron rad found for an angle corner of sold 31.079 acre tract; an angle corner of the aforementioned 4.337 acre tract and an angle corner of the herein described 7.500 acre tract;

THENCE along a west line of the aforementioned 31.079 acre tract and the east line of the aforementioned 4.337 acre tract, N01'39'13'W a distance of 282.80 (set (Record - N01'39'13'W - 282.80') to a 1/2' iron rod found for the west camer of said 31.079 acre tract and an interior camer of said 4.337 acre tract and the west camer of the herein described 7.500 acre tract;

THENCE along the northwest line of the aforementioned 31.079 acre tract and a southeast line of the aforementioned 4.337 acre tract, N43'23'46'E a distance of 587.87 feet (Record - N43'23'46'E - 587.88') to the PLACE OF BEGINNING and containing 7.500 acres of land.

# THE STATE OF TEXAS COUNTY OF HAYS

I hereby certify that this instrument was FILED on the date and the time stamped hereon by me and was duly RECORDED in the Records of Hays County, Texas.

24038869 DEED 10/04/2024 04:25:54 PM Total Fees: \$37.00

Elaine H. Cárdenas, MBA, PhD,County Clerk Hays County, Texas

Clain & Cardenas





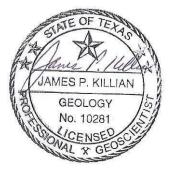
### GEOLOGIC ASSESSMENT APPROXIMATELY 7-ACRE PEC LA CIMA SUBSTATION SITE 2701 RANCH ROAD 12 SAN MARCOS, HAYS COUNTY, TEXAS HJN 23302 GA

# **PREPARED FOR:**

CIVIL LAND GROUP, LLC ROUND ROCK, TEXAS

PREPARED BY:

HORIZON ENVIRONMENTAL SERVICES A BRANCH OF LJA ENVIRONMENTAL SERVICES, LLC TBPG FIRM REGISTRATION NO. 50679



**JANUARY 2024** 

23302-001GA Report



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### II. ATTACHMENTS:

- A GEOLOGIC ASSESSMENT TABLE
- B STRATIGRAPHIC COLUMN
- C DESCRIPTION OF SITE GEOLOGY
- D SITE GEOLOGIC MAP
- E SUPPORTING INFORMATION
- F ADDITIONAL SITE MAPS

# **Geologic Assessment**

# **Texas Commission on Environmental Quality**

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

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

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

# Signature

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

Print Name of Geologist: James Killian

Telephone: 512-328-2430

Date: 10 January 2024

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

Representing: <u>Horizon Environmental Services and TBPG Form Registration No. 50679</u> (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

**Regulated Entity Name:** <u>Approximately 7-acre PEC La Cima Substation Site; 2701 Ranch Road</u> 12, San Marcos, Hays County, Texas

JAMES P. KILLIAN

# **Project Information**

- 1. Date(s) Geologic Assessment was performed: <u>15 November and 11 to 13 December 2023</u>
- 2. Type of Project:

$\times$	WPAP
$\times$	SCS

- AST
- 3. Location of Project:

$\times$	Rech	ar	ge	Zone

Transition Zone

Contributing Zone within the Transition Zone

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

# Table 1 - Soil Units, InfiltrationCharacteristics and Thickness

Soil Name	Group*	Thickness(feet)
Comfort-Rock		
outcrop		
complex <i>,</i> 1-8%		
slopes (CrD)	D	1.1

Soil Name	Group*	Thickness(feet)

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

```
Applicant's Site Plan Scale: 1'' = 400'
Site Geologic Map Scale: 1'' = 400'
Site Soils Map Scale (if more than 1 soil type): 1'' = 300'
```

- 9. Method of collecting positional data:
  - Global Positioning System (GPS) technology.
  - Other method(s). Please describe method of data collection: \_\_\_\_\_

- 10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
- 11. Surface geologic units are shown and labeled on the Site Geologic Map.
- 12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
  - Geologic or manmade features were not discovered on the project site during the field investigation.
- 13. The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
  - There are <u>0</u> (#) 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.



# ATTACHMENT A

# **GEOLOGIC ASSESSMENT TABLE**

GEOL	OGIC ASS	ESSMENT	TABL	E			PR	DJE	CT NA	ME	E: PE	C La (	Cima S	Substatio	n Site	e; 27	'01 F	Ranc	ch Ro	ad 12, San Marcos, Hays Co., TX
	LOCATIO	N		FEATURE CHARACTERISTICS								EVALUATION					PHYSICAL SETTING			
1A	1B *	1C*	2A	2B	3		4		5	5A	6	7	8A	8B	9	1	10		11	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIME	NSIONS (	FEET)	TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL		ITIVITY		ENT AREA RES)	TOPOGRAPHY
						Х	Y	Z		10						<40		<1.6	<u>&gt;1.6</u>	
F-1	29.900913				Ked	5	3	2.5					C,F,O	25	45		Х	X		Hillside
F-2	29.900805		SC	20	Ked	0.5		3					C,F,O	30	50		Х	X		Hillside
F-3	29.901573			20	Ked	6	2.5	2					C,F,O	15	35	X		X		Hillside
F-4	29.901946	-97.990456	SC	20	Ked	1	0.5	1					C,F,O	10	30	X		X		Hillside
+ DATURA																				
* DATUM:		TYPE		01	3 POINTS	1					0	A INFILL								
IC I TYPE	Cave	TTPE		21			NI	None	, exposed	had			ING							
-					30															
SC	Solution cavity				20				se - cobble				•							
SF	Solution-enlarge	ed fracture(s)			20							•		cks, dark col						
F	Fault				20									le, gray or re	d colors	5				
0	Other natural be	edrock features			5		V Vegetation. Give details in narrative description							ı						
MB	Man-made feat	ure in bedrock			30		FS Flowstone, cements, cave deposits													
SW	Swallow hole				30		X Other materials													
SH	Sinkhole				20										-					
CD	Non-karst close	d depression			5							RAPHY								
z	Zone, clustered	or aligned featu	res		30		Cli	ff, H	illtop, ł	Hills	side, I	Draina	age, Flo	oodplain	, Stre	amb	bed			

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

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

Hamis P. / Ullian A June Lulian Date: 01/10/2024 Sheet \_\_1\_\_\_ of \_\_\_1\_\_\_ (CENSE)

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



# ATTACHMENT B

# STRATIGRAPHIC COLUMN

Geologic Unit	Geologic Member	Hydrologic Unit	Approx. Thickness at Project Site (ft)	Elevation (ft msl)	Depth (ft)
	Leached & Collapsed (Kplc)	Edwards Aquifer	90	862	0
	Regional Dense (Kprd)	Edwards Aquifer	20	772	90
	Grainstone (kkg)	Edwards Aquifer	65	—— 752 ——	110
Edwards Group	Kirschberg Evaporite (Kkke)	Edwards Aquifer	60	687	175
	Dolomitic (Kkd)	Edwards Aquifer	130	627	235
	Basal Nodular (Kkbn)	Edwards Aquifer	60	<u> </u>	365
Glen Rose (Kgr)	Upper (Kgru)	Confining Unit	400		
				37	825

Note: Unit elevation and thickness given with respect to a ground surface elevation of 862 ft along the southeastern corner of the subject site.



Date:	01/11/2024
Drawn:	KRW
HJN NO:	23302.001 GA

#### Attachment B

Stratigraphic Column PEC La Cima Substation Site 2701 Ranch Road 12 San Marcos, Hays County, Texas





# ATTACHMENT C

# DESCRIPTION OF SITE GEOLOGY



Geologic information for the subject site obtained via literature review is provided in Attachment E, Supporting Information.

A geologic assessment of approximately 7 acres located at 2701 Ranch Road 12, San Marcos, Hays County, Texas, was conducted pursuant to Texas rules for regulated activities in the Edwards Aquifer Recharge Zone (EARZ) (30 TAC 213). The subject site consists of undeveloped mixed rangeland and woodlands. Assessment findings were used to develop recommendations for site construction measures intended to be protective of water resources at the subject site and adjacent areas.

The entire subject site is located within the EARZ, as defined by the Texas Commission on Environmental Quality (TCEQ). The EARZ occurs where surface water enters the subsurface through exposed limestone bedrock containing faults, fractures, sinkholes, and caves.

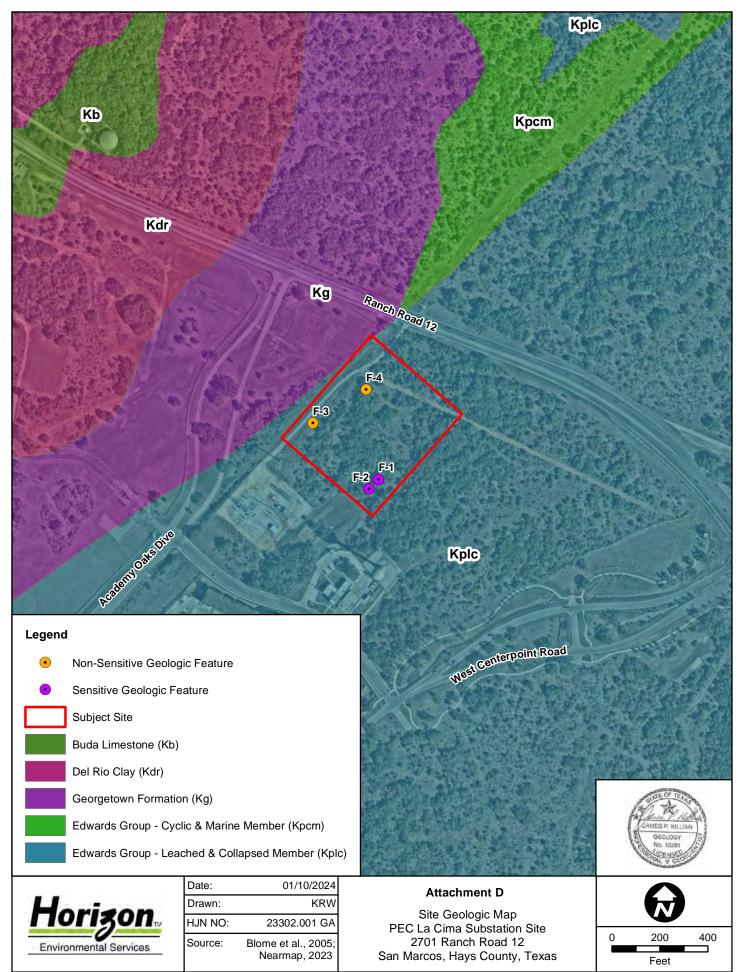
The subject site is completely underlain by the Leached and Collapsed Member (Kplc) of the Edwards Group-Person Formation (Blome et al., 2005), which has an estimated maximum thickness of about 90 feet thick.

A total of 4 naturally occurring geologic features (F-1 to F-4) and no man-made features were identified at this site. Further information pertaining to the features is presented in the following Attachments D, E, and F.



# ATTACHMENT D

SITE GEOLOGIC MAP



23302-PEC\_La\_Cima\_Substation\_Site\Graphics\23302-001GA\_06A\_SGM



# ATTACHMENT E

# SUPPORTING INFORMATION



## 1.0 INTRODUCTION AND METHODOLOGY

This report and any proposed abatement measures are intended to fulfill Texas Commission on Environmental Quality (TCEQ) reporting requirements (TCEQ, 2005). This geologic assessment includes a review of the subject site for potential aquifer recharge and documentation of general geologic characteristics for the subject site. Horizon Environmental Services (Horizon) conducted the necessary field and literature studies according to TCEQ *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (TCEQ, 2004).

Horizon walked transects spaced 50 feet apart, mapped the locations of features using a sub-foot accurate Trimble Geo HX handheld GPS, and posted processed data utilizing GPS Pathfinder Office software, topographic maps, and aerial photographs. Horizon also searched the area around any potential recharge features encountered to look for additional features. When necessary, Horizon removed loose rocks and soil (by hand) to preliminarily assess each feature's subsurface extent while walking transects. However, labor-intensive excavation was not conducted during this assessment. Features that did not meet the TCEQ definition of a potential recharge feature (per TCEQ, 2004), such as surface weathering, karren, or animal burrows, were evaluated in the field and omitted from this report.

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

## 2.0 ENVIRONMENTAL SETTING

### 2.1 LOCATION AND GENERAL DESCRIPTION

The subject site consists of approximately 7 acres of mixed rangeland and woodlands located at 2701 Ranch Road 12 in San Marcos, Hays County, Texas (Appendix F, Figure 1).

### 2.2 LAND USE

The subject site is reportedly vacant land. No habitable structures were observed on the site. Ranch Road 12 is near the northeastern border of the site and Flint Ridge Road is near the southern border of the site. Surrounding lands are generally used for rural and suburban residences, recreation, and utility facilities, or are vacant.

### 2.3 TOPOGRAPHY AND SURFACE WATER

The subject site is situated on moderately sloping terrain within the Sink Creek watershed (Appendix F, Figures 2 and 3). Surface elevations on the subject site vary from a minimum of approximately 818 feet above mean sea level (amsl) within an unnamed tributary of Sink Creek near the northern site corner along Ranch Road 12 to a maximum of approximately



862 feet amsI near the southeastern site corner (USGS, 1973). Drainage on the site occurs primarily by overland sheet flow from southwest to northeast toward an unnamed tributary of Sink Creek.

### 2.4 EDWARDS AQUIFER ZONE

The subject site is found within the Edwards Aquifer Recharge Zone (TCEQ, 2023) (Attachment F, Figure 2).

### 2.5 SURFACE SOILS

One soil unit is mapped within the subject site (NRCS, 2024) (Appendix F, Figure 4). Comfort-Rock outcrop complex, 1 to 8% slopes (CrD), consists of shallow, clayey soils and Rock outcrop on side slopes and on hilltops and ridgetops on uplands in the Edwards Plateau Land Resource Area. Comfort extremely stony clay makes up 49% to more than 95% of the complex, but on average makes up 70%. The areas of Rock outcrop are long, narrow horizontal bands on hill slopes and along small drains. The Comfort soil is between the bands of Rock outcrop. Cobbles and stones as much as 4 feet across cover about 45% of the surface. The underlying material is indurated fractured limestone. The soil is mildly alkaline and noncalcareous throughout. The Comfort soil is well-drained. Surface runoff is slow to medium. Permeability is slow, and the available water capacity is very low. The rooting zone is shallow. Water erosion is a slight hazard. Typically, Rock outcrop is dolomitic limestone that is barren of soil except in narrow fractures in the rock. The soils in this complex are used as rangeland and as habitat for wildlife. Production of range forage is low because of the restricted rooting depth, the very low available water capacity, and the cobbles and stones on the surface (Batte et al., 1984).

### 2.6 WATER WELLS

A review of TCEQ and Texas Water Development Board (TWDB) records revealed no water wells on the subject site and 5 wells within 0.5 miles of the subject site (TCEQ, 2023; TWDB, 2023). According to the TWDB records, all the off-site wells are reportedly completed within the Edwards and Trinity aquifers at total depths ranging from 240 to 1100 feet below surface. Horizon observed no wells on the subject site.

The results of this assessment do not preclude the existence of undocumented/abandoned wells on the site. If a water well or casing is encountered during construction, work should be halted near the feature until the TCEQ is contacted.

### 2.7 GEOLOGY

### Literature Review

The subject site is underlain by the Leached and Collapsed Member (Kplc) of the Edwards Group-Person Formation (Blome et al., 2005). The Leached and Collapsed member (Kplc) comprises crystalline limestone, mudstone to grainstone, with chert, extensive collapsed breccia, and isolated stromatolitic limestone. It is identified in the field by bioturbated iron-stained



beds separated by massive limestone beds, and presence of the fossil coral *Montastraea* sp. This member is considered the most cavernous unit in the San Marcos platform facies. It is classified as having nonfabric-selective porosity and very high permeability rates (Small and Hanson, 1994). Thickness ranges from 70 to 100 ft.

The site Stratigraphic Column is provided as Attachment B, and the Site Geologic Map is Attachment D.

The subject site is located within the Balcones Fault Zone. Available geologic reports indicate the nearest mapped fault is located approximately 0.1 mile to the northwest, trending from southwest to northeast (Blome et al., 2005).

### Field Assessment

The Site Geologic Map is provided as Attachment D. The Geologic Assessment Table (Attachment A) describes those features observed on the subject site that meet the TCEQ definition of a potential recharge feature. Horizon observed approximately 4 naturally occurring geologic features (F-1 to F-4) on the subject site that meet the TCEQ definition of a potential recharge features were identified on the subject site.

The geologic features identified on the subject site are described as follows:

Geologic Feature F-1: Sinkhole measuring approximately 5 feet long by 3 feet wide by 1 foot deep, with a solution cavity portal near its center about 2.5 feet long by 1.5 feet wide by 1.5 feet deep. Horizon initially excavated the feature by hand and slight air flow conductivity was noted at the opening. This feature has a minor infiltration rate and a surface runoff catchment of less than 0.4 acres. This feature has been deemed sensitive for groundwater recharge and therefore has a (pre-approved by James Slone) TCEQ buffer of 200 feet upslope and 25 feet downslope surrounding the feature.



Geologic feature F-1 (sinkhole), facing down



Geologic Feature F-2: Solution cavity located in an open area that measures approximately 0.5 feet in diameter by 4 feet deep. High air flow conductivity was noted at the opening. After limited hand excavation, probing with a steel rod encountered loose small rocks and/or cobbles about 4 feet below the surface. Horizon staff began excavation of the feature on 11 December 2023 using a backhoe with hoe ram attachment and finished on 12 December 2023. Excavation dimensions measured approximately 10 feet in length by 5 feet wide by 10 feet deep. Approximately 5 feet below the surface on the east end of the excavation is an entrance (6 feet across) into a solutioned bedrock void that extends about 6 feet toward the east, where it then splits into two tunnels, one continuing due east and the other extending towards the northeast. The eastern tunnel measures approximately 9 feet long by 1.5 feet wide by 0.5 to 1 foot high. The northeastern tunnel measures approximately 4.5 feet long by 1 to 2.5 feet wide by 0.5 to 1 foot high. The floor of the feature was massively infilled with loose soil/clay. The void is approximately 18 feet long (from west to east) and 6 feet from north to south at the widest section of the void (near the opening). Interior ceiling heights in the void are less than 2 feet on average. This feature has a moderate to high infiltration rate and a surface runoff catchment of less than 0.4 acres. This feature has been deemed sensitive for groundwater recharge and therefore has a (pre-approved by James Slone) TCEQ buffer of 200 feet upslope and 25 feet (instead of 50 feet) downslope surrounding the excavation/footprint of the void.



Geologic feature F-2 (solution cavity) before excavation, facing down





Geologic feature F-2 after excavation, facing north



Close-up view of interior of F-2



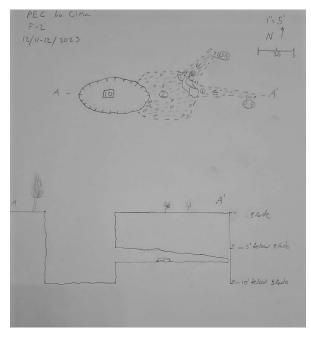


Eastern tunnel of F-2



Northeast tunnel of F-2





Sketch of F-2

Geologic feature F-3: This apparent sinkhole/solution cavity feature is located within an existing overhead electrical transmission line easement with a private, unpaved service road. Based on recent Phase II karst survey results (i.e., mechanical excavation), this feature appears to be a product of man-made fill (i.e., boulders, rocks, and fines) placed off to the side after utility easement/road cutting operations were completed. In addition, no apparent solutioned voids and/or mesocaverns were identified within the walls and/or floors of the excavated feature. Therefore, this feature has been deemed non-sensitive for aquifer point recharge.



Geologic feature F-3, facing northwest





Geologic feature F-3 after excavation, facing north



Geologic feature F-3 after excavation, facing south





Geologic feature F-3 after excavation, facing north

Geologic Feature F-4: Solution cavity measuring approximately 1 foot long by 0.5 feet wide by 1 foot deep. Very slight air flow conductivity was noted at the opening. After limited hand excavation, probing with a steel rod encountered loose small rocks and/or cobbles about 1.5 feet below the surface. Horizon staff excavated the feature (5 feet long by 3.5 feet wide by 2 feet deep) on 12 December 2023 using a backhoe with hoe ram attachment. After mechanical excavation, Horizon probed the floor of the feature with a steel rod; however, no portals and/or voids were discovered in the floor or the feature. This feature has been deemed non-sensitive for groundwater recharge capability. This feature has a very low infiltration rate and a surface runoff catchment of less than 0.1 acre.



Geologic feature F-4 (solution cavity) before excavation, facing down





Geologic feature F-4 after excavation, facing northeast

### 3.0 CONCLUSIONS AND RECOMMENDATIONS

Two geologic features (F-1 and F-2) were identified at the subject site that would require protection or mitigation pursuant to TCEQ rules for protection of the Edwards Aquifer (30 TAC 213). Features F-3 and F-4 have been deemed non-sensitive for aquifer point recharge and therefore would not require protection or mitigation pursuant to TCEQ rules for protection of the Edwards Aquifer. The site generally appears well-suited to development prospectuses. It should be noted that soil and drainage erosion would increase with ground disturbance. Native grasses and the cobbly content of the soil aid to prevent erosion. Soil and sedimentation fencing should be placed in all appropriate areas prior to any site disturbing activities.

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



### 4.0 **REFERENCES**

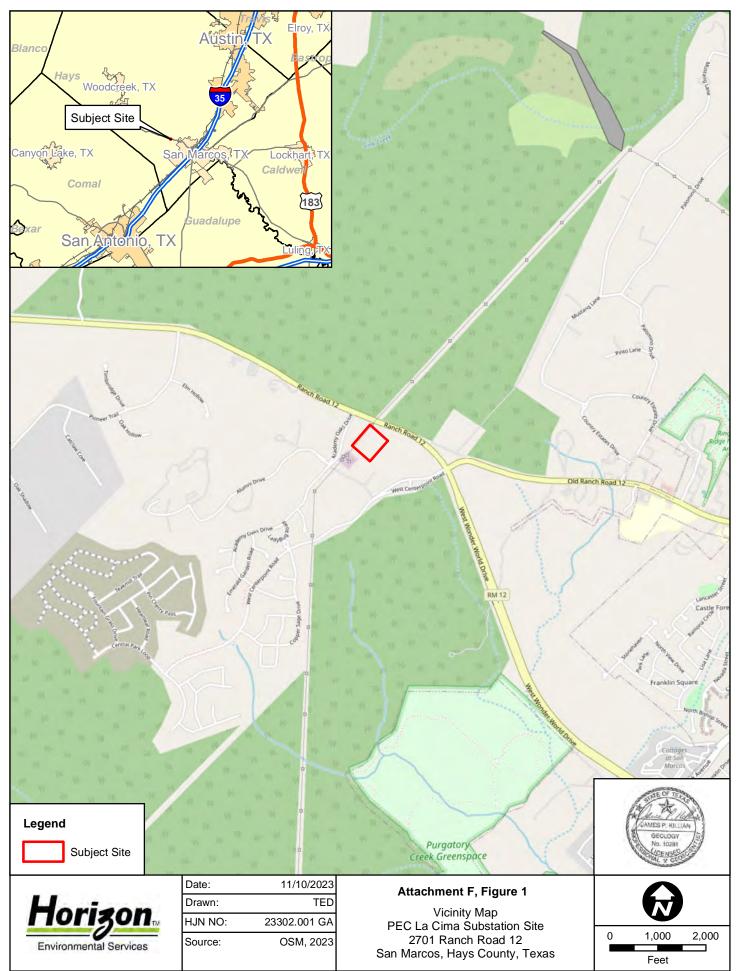
- Batte, Charles D.; Trevino, Rosando; Divin, James & Bearden, Eddie D. Soil survey of Comal and Hays Counties, Texas. US Department of Agriculture, Natural Resources Conservation Service (formerly Soil Conservation Service), in cooperation with the Texas Agricultural Experiment Station. 1984.
- (Blome et al.) Blome, Charles D., Jason R. Faith, Diana E. Pedraza, George B. Ozuna, James C. Cole, Allan K. Clark, Ted A. Small, and Robert R. Morris. *Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas*. US Geological Survey Scientific Investigations Map 2873, Version 1.1. 2005.
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- (Nearmap) Nearmap US, Inc. Nearmap Vertical<sup>™</sup> digital orthographic photograph, <https://go.nearmap.com>. Imagery date 8 October 2023.
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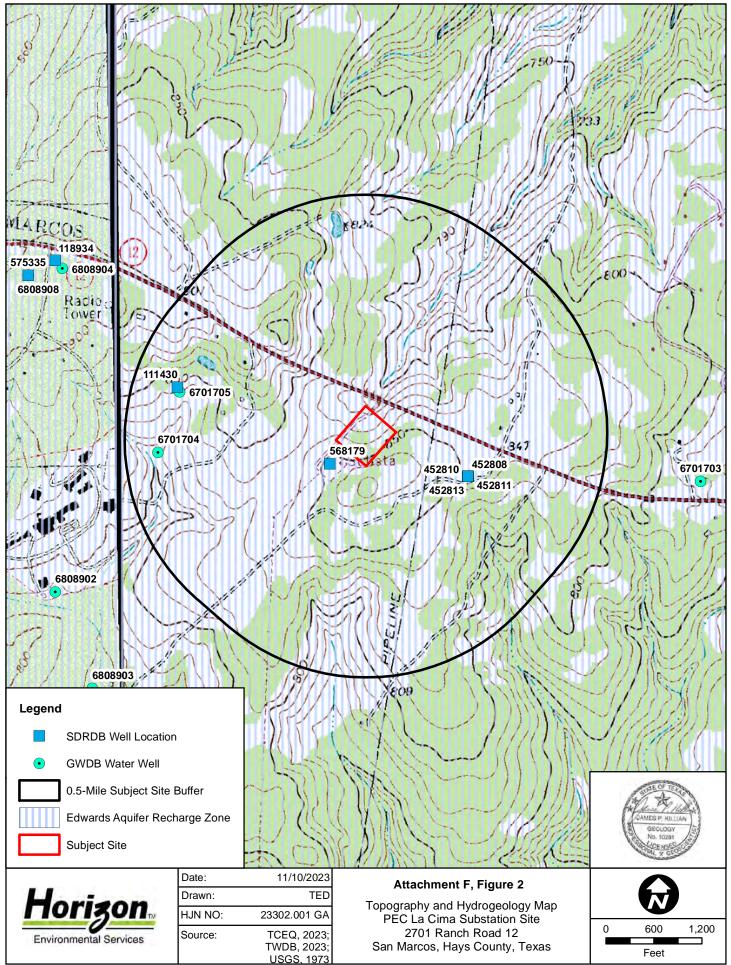
- (TWSC) United States Geological Survey, Texas Water Science Center. Geologic Database of Texas, <https://txpub.usgs.gov/txgeology/>. Updated 1 February 2014; Accessed 15 November 2023.
- (UT-BEG) University of Texas Bureau of Economic Geology, C.V. Proctor, Jr., T.E. Brown, J.H. McGowen, N.B. Waechter, and V.E. Barnes. *Geologic Atlas of Texas*, Austin Sheet, Francis Luther Whitney Memorial Edition. 1974; revised 1981.
- (USGS) US Geological Survey. 7.5-minute series topographic maps, San Marcos North, Texas, quadrangle. 1973.

### ATTACHMENT F

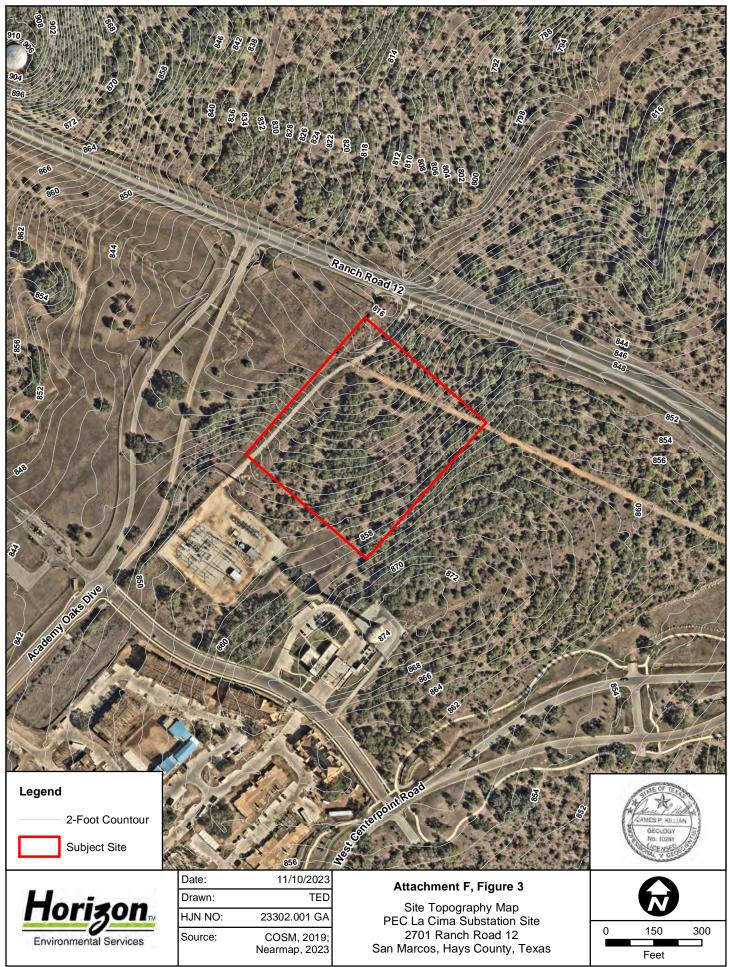
## ADDITIONAL SITE MAPS



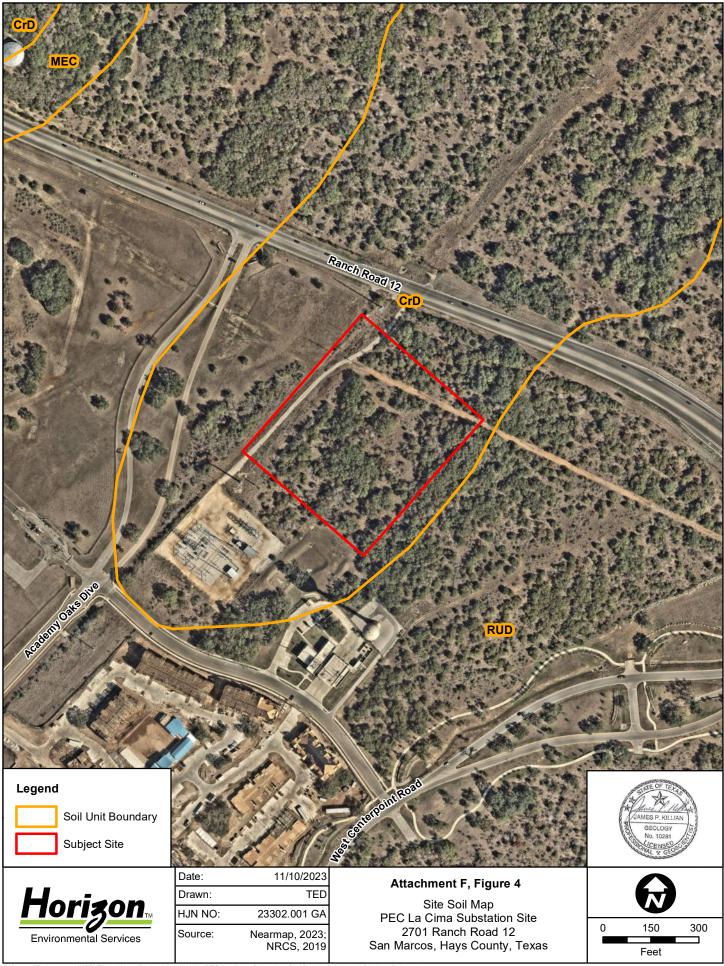
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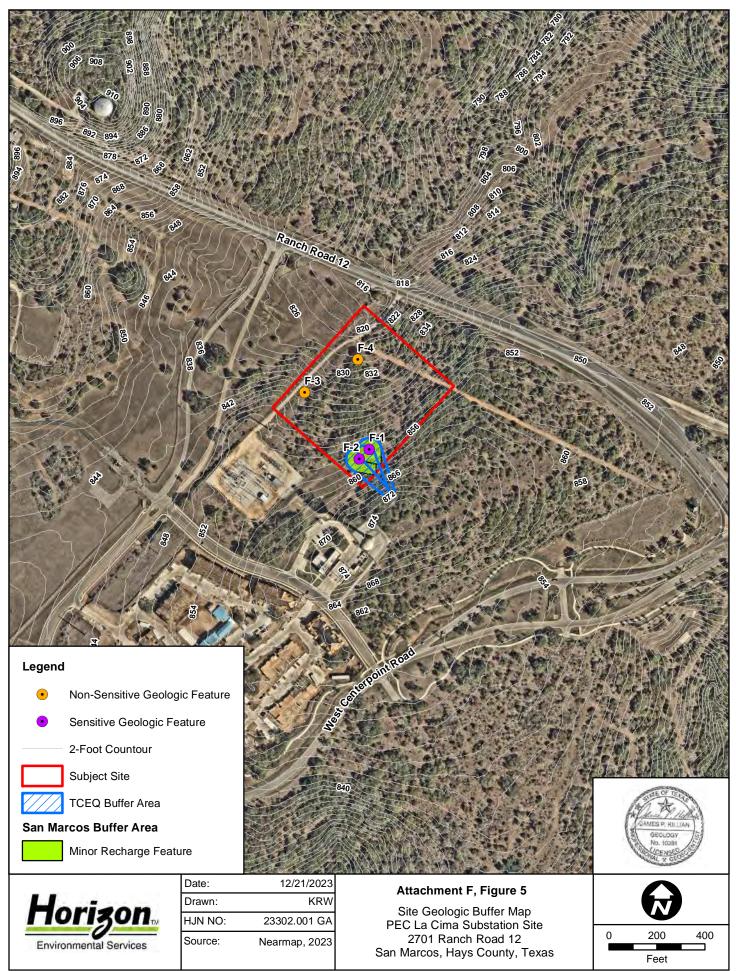
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# Water Pollution Abatement Plan Application

**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: Greg Ulcak, PE

Date: 11/14/24

Signature of Customer/Agent:

Ulak

Regulated Entity Name: PEDERNALES ELECTRIC COOPERATIVE SUBSTATION

# **Regulated Entity Information**

- 1. The type of project is:
  - Residential: Number of Lots:
  - Residential: Number of Living Unit Equivalents:\_\_\_\_\_
  - Commercial
  - X Industrial
  - Other:\_\_\_\_\_
- 2. Total site acreage (size of property): X
- 3. Estimated projected population: 0
- 4. The amount and type of impervious cover expected after construction are shown below:

TCEQ-0584 (Rev. 02-11-15)

**Table 1 - Impervious Cover Table** 

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	61,050	÷ 43,560 =	1.40
Parking		÷ 43,560 =	
Other paved surfaces	49,900	÷ 43,560 =	1.15
Total Impervious Cover	110,950	÷ 43,560 =	2.55

Total Impervious Cover 2.55 ÷ Total Acreage 7.50 X 100 = 34.0 % Impervious Cover

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

10. Length of pavement area: \_\_\_\_\_ feet.

Width of pavement area: feet.

L x W = \_\_\_\_\_ Ft<sup>2</sup> ÷ 43,560 Ft<sup>2</sup>/Acre = \_\_\_\_\_ acres.

Pavement area \_\_\_\_\_ acres ÷ R.O.W. area \_\_\_\_\_ acres x 100 = \_\_\_\_% impervious cover.

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

A rest stop will not be included in this project.

TCEQ-0584 (Rev. 02-11-15)

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. X 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:

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

15. Wastewater will be disposed of by: N/A

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

Site Plan Scale: 1" = <u>40'</u>.

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.

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

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): <u>Zone</u> "X" as shown on FEMA floodplain 48209C0388F, dated 9/2/2005

19. X 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 \_\_\_\_\_ (#) 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.

X 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:
  - X 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.

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

# Administrative Information

- 29. X 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. SUMBMITTED ELECTRONICALLY
- 30. X 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 Surface Water Quality

The primary factors affecting surface and groundwater quality upon completion of the proposed development, include the following items:

- 1) Sediment loading from new impervious cover & drainage pattern
- 2) Small Hydrocarbon contamination from spills/leaks

#### Sediment loading from new impervious cover

The addition of impervious cover related to new facilities and paving will create a collection surface for transported sediment that will ultimately become suspended in on site runoff generated during rainfall events. The site design accounts for this through the use of Stormwater Sand Bed structure. The water quality filtration system has been designed per the Edwards Aquifer Technical Guidance Manual for Best Management Practices (BMPs). Calculations for system are included in the attached Construction Plans, Sheet C-114.

#### Small Hydrocarbon contamination from spills/leaks

The proposed facility will include parking for motor vehicles. This use presents the opportunity for small oil leaks onto the parking surface. Pollutants remaining on the pavement surface will be carried to the water quality pond via the first flush of subsequent rainfall events.

### ATTACHMENT B – Volume and Character of Stormwater

It is expected that the character of surface water and ground water run-off would be consistent with a development used for a electric sub-station. Constituents would include hydrocarbon-based product residues, silt, and chemicals resulting from vehicular emissions and landscape maintenance.

The expected volume of run-off was based on the Rational method. This was calculated using "C" factors, which are based on impervious cover and the nature of surfaces over which run-off water flows. These calculations are presented in the attached Construction Documents on construction plans, sheets C-110 – C111.

The stormwater quality for the site was determined using "Complying with the Edwards Aquifer Rules: Technical Guidance in Best Management Practices".

# **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: Greg Ulcak, PE

Date: 11 14 24

Signature of Customer/Agent:

Regulated Entity Name: PEDERNALES ELECTRIC COOPERATIVE SUBSTATION

# **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.

X Fuels and hazardous substances will not be stored on the site.

- 2. X 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. X 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. X 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. X 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.
  - X For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
  - X 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. X Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>Sink Creek</u>

# Temporary Best Management Practices (TBMPs)

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

7. X 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:

X A description	of how BMPs and measures will prevent pollution of surface	e water,
groundwater	r or stormwater that originates upgradient from the site and	flows
across the sit	te.	

Х	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.

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

X 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. X 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.

X There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. X 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. X 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.

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X 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. X 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. X 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. X 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. X 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. X 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. X 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. X 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. X 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. X Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

# Administrative Information

- 20.  $\times$  All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
- 21. X 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. X 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

Oil and hazardous wastes on dirt and land have the potential to contaminate the environment and kill plant and animal life. Left unattended, spills will eventually migrate through the soil to the nearest water source, such as a sewer or river.

Every organization has the responsibility to clean up their own spills as quickly as possible and to minimize the impact on the environment. You must use spill kits and spill response procedures to perform this task.

In response to a spill:

- <u>ASSESS THE SPILL AND DETERMINE WHETHER HELP IS NEEDED.</u> Make sure the source of the spill is isolated by closing a valve, up righting the container, or otherwise stopping the source of the spill.
- <u>CONTAIN THE SPILL TO PREVENT IT SPREADING</u>. It is vital to keep spills away from drains or water as the spill spreads very quickly across the water surface.
- <u>USE PERSONAL PROTECTIVE EQUIPMENT</u>. PPE provided in oil spill kits is designed to withstand the effects of oils and additives. The gloves provide a good grip even in slippery conditions.
- <u>ABSORB THE SPILL USING SPILL ABSORBENTS</u>. The aim is to remove all the oil from the ground, even if this means digging up some soil where oil has penetrated the surface.
- <u>DISPOSE OF WASTE ABSORBENT BY PLACING IT INTO SEALED PLASTIC BAGS</u>. A licensed contractor should transport these bags to a registered hazardous waste disposal site.
- <u>REPORT ALL SPILLS</u>. Spills should be documented in the SWPPP.

Keep People Safe

- Avoid direct contact with the spilled material.
- Avoid inhalation of any gases, fumes, vapors, or smoke. All personnel should stay upwind (some gases inhibit the sense of smell or may be dangerous at undetectable concentrations).
- Move and keep people away from the incident scene.
- Find and, if possible, safely remove all ignition sources.
- Assess the situation with regard to injuries as needed.
- Contact the appropriate authorities and responsible parties to determine if specialized clean up is required.

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill as defined by the Reportable Quantities Table (30 TAC 327 and printed from TCEQ website), the contractor is required to clean up the spill and notify the TCEQ as required in 30 TAC 327. During business hours report spills to the TCEQ's Austin Regional Office at (512) 339-2929, after business hours call 1-800-832-8224, the State Emergency Response Center.

#### ATTACHMENT B - POTENTIAL SOURCES OF CONTAMINIATION

Surface water quality can be affected by disturbance during construction and by development after construction. Soil disturbance from clearing and grubbing, and cut and fill operations can lead to discharge of sediment unless adequate temporary erosion control measures are in place. For this project, the proposed water quality ponds will be rough cut first and along with perimeter silt fence and rock berms will prevent sediment from leaving the site. The proposed water quality ponds will also be utilized to serve as a temporary sedimentation pond during construction. Siltation collected by the control measures will be cleaned from trap, fences, berms, ponds, etc. on a routine schedule as outlined in the SWPPP and contract specifications.

During construction, surface water quality may also be affected by a spill of hydrocarbons or other hazardous substances used in construction. The most likely instances of a spill of hydrocarbons or hazardous substances are:

- 1. Refueling construction equipment.
- 2. Performing operator-level maintenance, including adding petroleum, oils, or lubricants.
- 3. Unscheduled or emergency repairs, such as hydraulic fluid leaks.

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill as defined by the Reportable Quantities Table (30 TAC 327 and printed from TCEQ website), the contractor is required to clean up the spill and notify the TCEQ as required in 30 TAC 327. During business hours report spills to the TCEQ's Austin Regional Office at (512) 339-2929, after business hours call 1-800-832-8224, the State Emergency Response Center.

#### ATTACHMENT C - SEQUENCE OF MAJOR ACTIVITIES

Described below are the major construction activities that are the subject of this SWPPP. They are presented in the order (or sequence) they are expected to begin, but each activity will not necessarily be completed before the next begins. Also, these activities could occur in a different order if necessary to maintain adequate erosion and sedimentation control.

- A. Construct rock construction entrance/exit.
- B. Install silt fence down slope from construction activities that disturb site soil and tree protection fencing as necessary.
- C. Rough cut all ponds. Either the permanent outlet structure or temporary outlet must be constructed prior to development of any embankment or excavation that leads to ponding conditions. The outlet system must consist of a low-level outlet and an emergency overflow.
- D. Clear and grub the improvement areas as needed.
- E. Rough grade site in accordance with plans and excavations.
- F. Underground utilities shall be installed.
- G. Final Grading Silt fence will be maintained down slope from disturbed soil during this operation; and
- H. Complete drainage and paving. Installation of base materials and/or paving should occur as soon as it is feasible to do so;
- I. Complete permanent water quality controls;
- J. Completion of on-site stabilization;
- K. Finalize all site improvements
- L. Finalize cleaning of erosion and sedimentation controls and storm drain structures.
- M. Dispose of all construction debris and trash. Hydromulch any disturbed areas following site cleanup. Complete and clean out permanent erosion control and site restoration.

The actual schedule for implementing pollutant control measures will be determined by project construction progress. Down slope protective measures must always be in place before soil is disturbed.

TCEQ-0602 ATTACHMENT C: SEQUENCE OF CONSTRUCTION

#### ATTACHMENT D - TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

A variety of storm water pollutant controls are recommended for this project. Some controls are intended to function temporarily and will be used as needed for pollutant control during the construction period. These include temporary sediment barriers and a temporary sediment basin. For most disturbed areas, permanent stabilization will be accomplished by covering the soil with pavement, or vegetation.

**Upgradient Drainage** will be routed around the site via drainage ditches.

Onsite Drainage will utilize the following BMPs

- A. Erosion and Sediment Controls
  - 1. Soil Stabilization The purpose of soil stabilization is to prevent soil from leaving the site. In the natural condition, soil is stabilized by native vegetation. The primary technique to be used at this project for stabilizing site soil will be to provide a protective cover of grass, pavement, or building.
    - (a) Silt Fence Silt Fence will be utilized around the south and east perimeter of the site to capture sediment from the disturbed area. Additionally silt fence will be around three sides of the Temporary Staging/Spoils area.
    - (b) Temporary Seeding Within 14 days after construction activity ceases on any particular area, all disturbed ground where there will not be construction for longer than 21 days must be seeded with fast-germinating temporary seed and protected with mulch.
  - 2. Temporary Sediment Basins will be created by excavating the water quality and detention ponds and utilizing a low water and overflow area to allow sedimentation and still release water downstream.
- B. Other Pollutant Controls
  - 1. Control of sediments has been described previously. Other aspects of this SWPPP are listed below:
    - (a) Dust Control Construction traffic must enter and exit the site at the stabilized construction entrance. The purpose is to trap dust and mud that would otherwise be carried off-site by construction traffic.

Water trucks will be used as needed during construction to reduce dust generated on the site. Dust control must be provided by the general contractor to a degree that is acceptable to the Construction Manager, and in compliance with applicable local and state dust control regulations.

After construction, the site will be stabilized (as described elsewhere), which will reduce the potential for dust generation.

- (b) Solid Waste Disposal No solid materials, including building materials, are allowed to be discharged from the site with storm water. All solid waste, including disposable materials incidental to the major construction activities, must be collected and placed in containers. The containers will be emptied periodically by a contract trash disposal service and hauled away from the site.
- (c) Substances that have the potential for polluting surface and/or groundwater must be controlled by whatever means necessary in order to ensure that they do not discharge from the site. As an example, special care must be exercised during equipment fueling and servicing operations. If a spill occurs, it must be contained and disposed so that it will not flow from the site or enter groundwater, even if this requires removal, treatment, and disposal of soil. In this regard, potentially polluting substances should be handled in a manner consistent with the impact they represent.
- (d) Sanitary Facilities All personnel involved with construction activities must comply with state and local sanitary or septic system regulations. Temporary sanitary facilities will be provided at the site throughout the construction phase. They must be utilized by all construction personnel and will be serviced by a commercial operator.

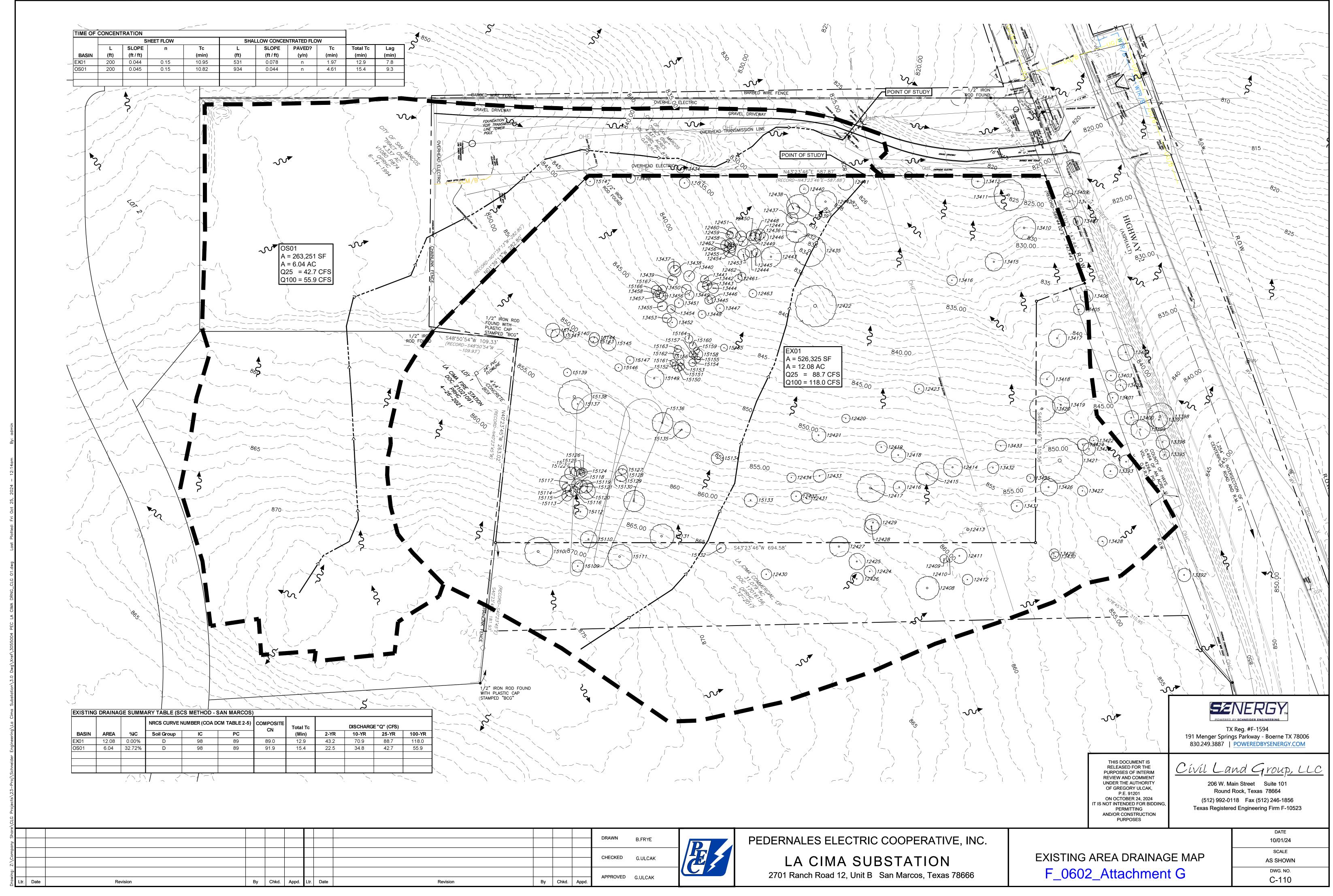
**Downgradient Drainage** will be a roadside ditch along RR12. Rock berms will be utilized to prevent downstream sedimentation.

**Critical Environmental Features** have been located onsite. The CEF's have been identified and setbacks have been determined.

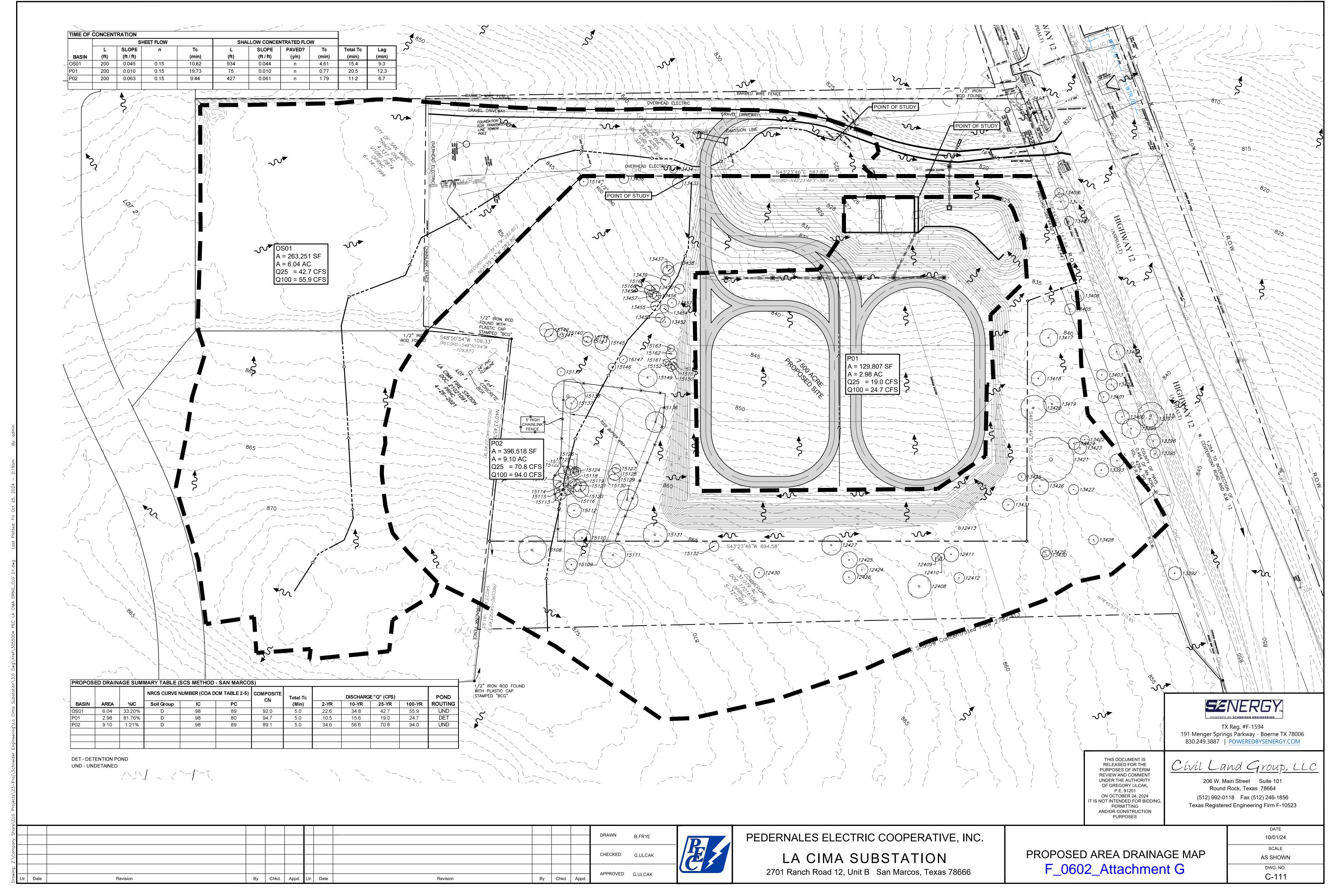
### ATTACHMENT F - STRUCTUAL PRACTICES

Temporary Sediment Basins will be created by excavating the water quality and detention ponds to 100% of the final volumes for the ponds. They will include a low water and overflow area to allow sedimentation and still release water downstream. Either the permanent outlet structure or temporary outlet must be constructed prior to development of any embankment or excavation that leads to ponding conditions. The outlet system must consist of a low-level outlet and an emergency overflow.

There are drainage ditches along the perimeter of the site to divert offsite drainage. Additionally, there on two onsite ditches that will divert existing drainage around the developed portion of the site.



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#### **ATTACHMENT H - TEMPORARY SEDIMENT PONDS**

Temporary Sediment Basins will be created by excavating the water quality and detention ponds and utilizing a low water and overflow area to allow sedimentation and still release water downstream.

All ponds must be rough cut to 100% of the final pond volume. Either the permanent outlet structure or temporary outlet must be constructed prior to development of any embankment or excavation that leads to ponding conditions. The outlet system must consist of a low-level outlet and an emergency overflow.

Below are the stage-storage tables for the ponds. Details and calculations of the ponds can be found in the attached Construction Documents, Sheet C-114.

#### STAGE / STORAGE TABLE SEDIMENTATION

POND				
		CONTOUR	INCREMENTAL	TOTAL
STAGE	ELEVATION	AREA	STORAGE	STORAGE
(FT)	(FT MSL)	(SF)	(CF)	(CF)
0	828.50	0	0	0
0.50	829.00	1,190	298	298
1.00	829.50	1,954	786	1,084
2.00	830.50	1,954	1,954	3,038
3.00	831.50	1,954	1,954	4,992
4.00	832.50	1,954	1,954	6,946

#### FILTRATION POND

		CONTOUR	INCREMENTAL	TOTAL
STAGE	ELEVATION	AREA	STORAGE	STORAGE
(FT)	(FT MSL)	(SF)	(CF)	(CF)
0	828.5	2,098	0	0
1.00	829.5	2,098	2,098	2,098
2.00	830.5	2,098	2,098	4,196
3.00	831.5	2,098	2,098	6,294
4.00	832.5	2,098	2,098	8,392

#### STAGE / STORAGE / DISCHARGE TABLE

DETENTION POND (UN-BLOCKED ORIFICE)

DETENT	<u>DETENTION FOND (ON-BEOCKED OKITICE)</u>							
		CONTOUR	INCREMENTAL	TOTAL	CULVERT / ORIFICE	WEIR	TOTAL	
STAGE	ELEVATION	AREA	STORAGE	STORAGE	18 IN	6 LF	DISCHARGE	
(FT)	(FT MSL)	(SF)	(CF)	(CF)	(CFS)	(CFS)	(CFS)	
0	824.00	3409	0	0	.00	.00	.00	
0.50	824.50	3,676	1,771	1,771	1.24	.00	1.24	
1.00	825.00	3,956	1,908	3,679	4.27	.00	4.27	
1.50	825.50	4,249	2,051	5,731	7.37	.00	7.37	
2.00	826.00	4,554	2,201	7,931	9.51	.00	9.51	
2.50	826.50	4,871	2,356	10,288	11.25	.00	11.25	
3.00	827.00	5,200	2,518	12,805	12.76	.00	12.76	
3.50	827.50	5,729	2,732	15,538	14.11	.00	14.11	
4.00	828.00	6,259	2,997	18,535	15.34	.00	15.34	
4.50	828.50	6,815	3,269	21,803	16.48	.00	16.48	
5.00	829.00	7,371	3,547	25,350	17.54	58.87	76.41	

### ATTACHMENT A - INSPECTION AND MAINTENANCE OF BMPs

The following guidelines should be used for the maintenance plan for permanent BMPs.

- **During Construction.** The ponds shall be rough graded at 100% capacity. Either the permanent outlet or a temporary outlet must be constructed prior to development of embankment or excavation that could lead to ponding conditions. The outlet system must consist of a sump pit outlet and an emergency spillway. Prior to site completion, the ponds shall be fully constructed and stabilized to minimize sediment loads. Until all the construction within the basin's drainage area has been completed and exposed earth stabilized, the basin will be inspected weekly and after all rain events.
- **Mowing.** Grassy side-slopes & embankments of the sedimentation and detention basins should be mowed regularly to discourage woody growth and control weeds. When mowing is performed, a mulching mower should be used or grass clippings should be caught and removed.
- Inspections. Inspections should take place weekly and during or immediately following wet weather for excess sediment. The inlet and outlet structure should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet. During each inspection, erosion areas inside and downstream of the BMP should be identified and repaired/revegetated immediately. Cracks, voids, and undermining should be patched/filled to prevent additional structural damage.
- **Debris and Litter Removal.** As part of periodic mowing operations and inspections, debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the inlet and outlet structure. These items should be checked for possible clogging.
- **Erosion Control.** The basin side slopes, emergency spillway, and embankment all may suffer from slumping and erosion. Corrective measures such as re-grading and revegetation may be necessary. Similarly, the riprap protecting the channel near the outlet may need to be repaired or replaced.
- *Nuisance Control.* During inspections, the facility should be evaluated in terms of nuisance control (insects, weeds, odors).
- *Maintenance Access.* Maintenance will be performed by maintenance personnel from within the basins. Maintenance equipment and materials to be removed will be hoisted in and out of the basins via buckets using applicable mechanical equipment.

#### Record Keeping

• **Routine and Storm Event.** Owner will keep a record of both routine and nonrouting inspections. Additionally, all maintenance and repairs shall be detailed in via SWPPP addendums. This record shall be available for review and inspection by TCEQ upon request.

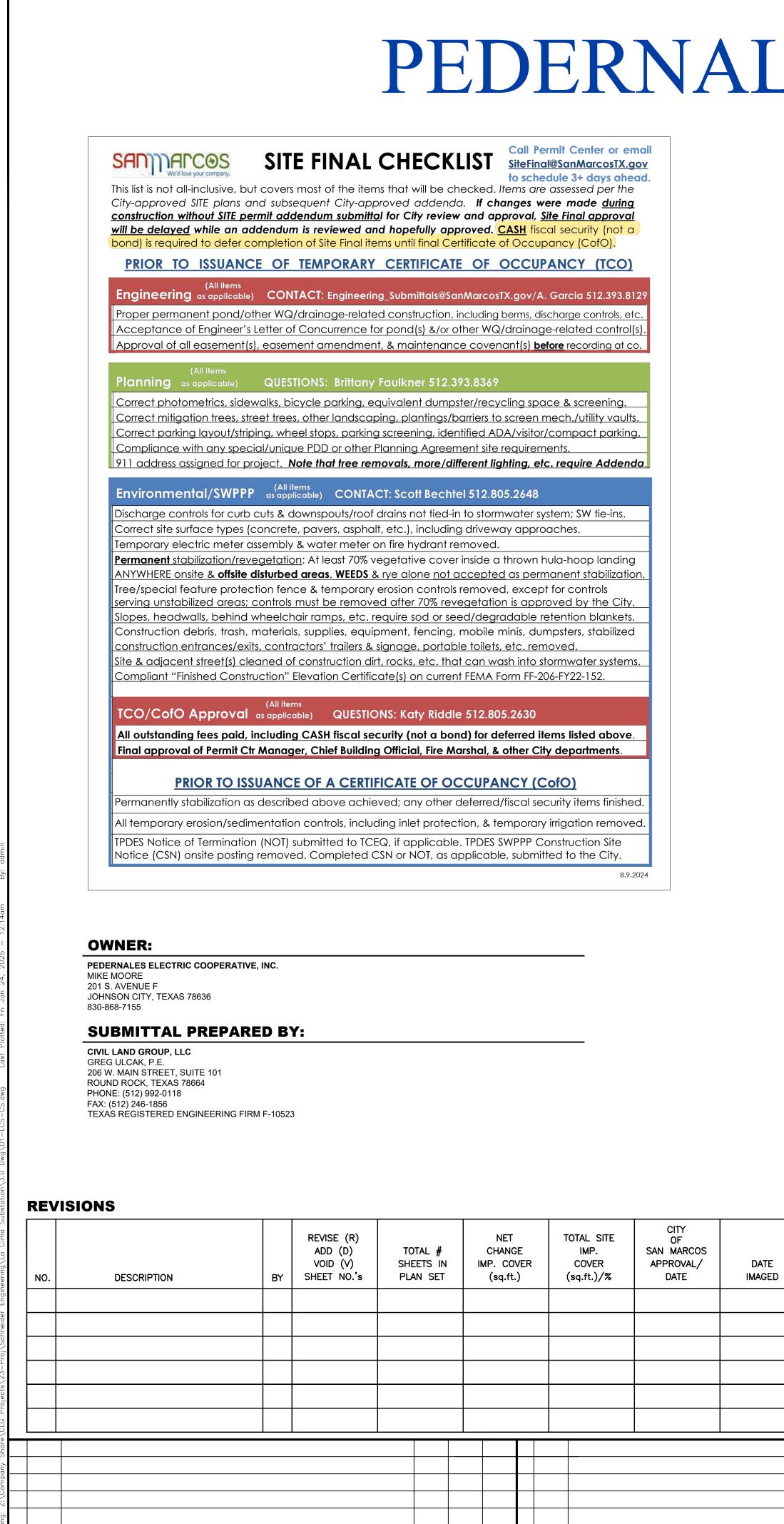
### ATTACHMENT J - SCHEDULE OF INTERIUM & PERMANENT SOIL STABILIZATION PRACTICES

Described below is the schedule of the major soil and stabilization practices. They are presented in the order (or sequence) they are expected to begin, but each activity will not necessarily be completed before the next begins. Also, these activities could occur in a different order if necessary to maintain adequate erosion and sedimentation control.

2.55 Acres of the Site (7.5 Acres) will be disturbed.

- A. Construct rock construction entrance/exit.
- B. Install silt fence down slope from construction activities that disturb site soil and tree protection fencing as necessary.
- C. Rough cut all ponds. Either the permanent outlet structure or temporary outlet must be constructed prior to development of any embankment or excavation that leads to ponding conditions. The outlet system must consist of a low-level outlet and an emergency overflow.
- D. Completion of on-site stabilization.
- E. Finalize cleaning of erosion and sedimentation controls and storm drain structures.
- F. Dispose of all construction debris and trash. Hydromulch any disturbed areas following site cleanup. Complete and clean out permanent erosion control and site restoration.

The actual schedule for implementing pollutant control measures will be determined by project construction progress. Down slope protective measures must always be in place before soil is disturbed.



By Chkd. Appd. Ltr. Date

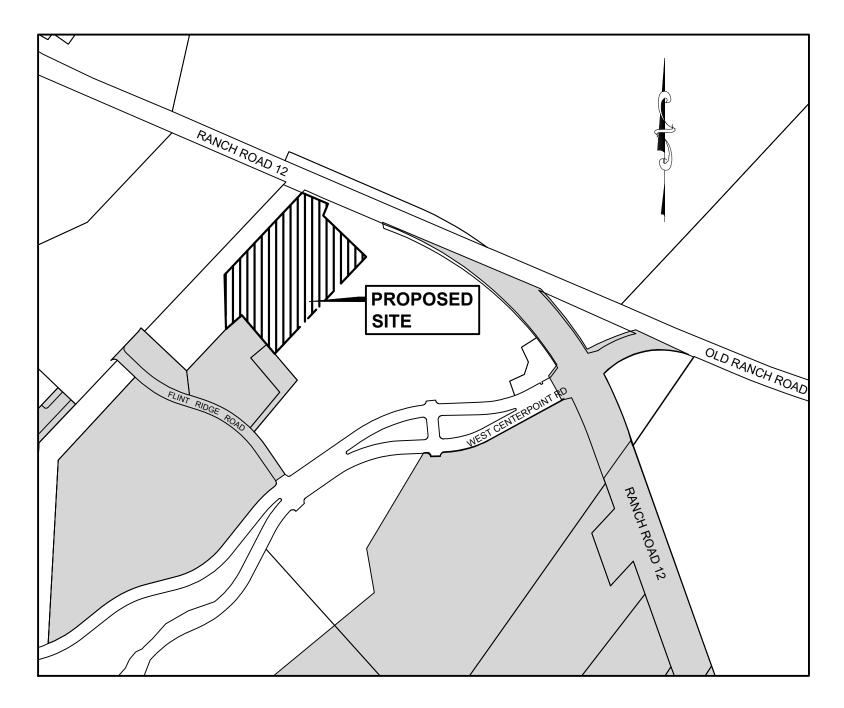
Date

Revision

# PEDERNALES ELECTRIC COOPERATIVE, INC. LA CIMA SUBSTATION

2701 Ranch Road 12, Unit B San Marcos, Texas 78666

## SITE PLAN Permit No. 2024-53133



### **PROJECT ADDRESS:**

2701 RANCH ROAD 12, UNIT B SAN MARCOS, TEXAS 78666

### ZONING: CD-1

FLOOD PLAIN: NO PORTION OF THIS PROJECT FALLS WITHIN THE 100 FLOOD PLAIN, PER FEMA FLOODPLAIN MAP 48209C0388F, EFF. 9/2/2005

### AQUIFER NOTE:

THIS PROJECT IS IN THE EDWARDS AQUIFER RECHARGE ZONE OR EDWARDS AQUIFER CONTRIBUTING ZONE.

### **TPDES STATUS NOTE:**

"THIS PROJECT IS SUBJECT TO TCEQ'S TPDES SWPPP REGULATIONS PER TEXAS WATER CODE CHAPTER 26. IF NOT ALREADY DONE, HAVE A TX PE, CPESC, OR QPSWPPP DEVELOP A PROJECT-SPECIFIC SWPPP AND SEEK APPLICABLE TPDES PERMIT TXR150000 COVERAGE IMMEDIATELY PER TXR150000 PARTS I-III AND CITY CODE SECTION 86.529(B)(2) OR 86.529(C)(3). A HARD-COPY OF THE SWPPP, INCLUDING FULL-SIZE SITE MAP, MUST BE AVAILABLE AT THE PRE-CON MEETING, KEPT ONSITE, AND UPDATED TO MATCH SITE CONDITIONS DURING THE PROJECT."

### WATERSHED PROTECTION PLAN:

A PHASE 2 WATERSHED PROTECTION PLAN HAS BEEN APPROVED FOR THIS PROJECT AS OF XX/XX/XXXX .

### **BENCHMARK LIST:**

Revision

<u>BM 1</u>	
SET CHISELED	) SQUARE
NORTHING:	13,877,191.3
EASTING:	2,287,993.17
ELEVATION:	829.51

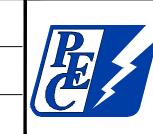
SET CHISELED SQUARE NORTHING: 13,876,944.56 EASTING: 2,288,325.8 ELEVATION: 826.26' SEQUENCE OF CONSTRUCTION:

- OBTAIN CITY-APPROVED SITE PLAN PERMIT AND APPLICABLE TPDES SWPPP PERMIT TXR150000 COVERAGE; HAVE A TX PE CPESC, OR QPSWPPP PREPARE PROJECT-SPECIFIC SWPPP.
- INSTALL TEMPORARY EROSION/SEDIMENTATION CONTROLS, AND TREE PROTECTION FENCING IF APPLICABLE, PER PLANS.
- 3. UPLOAD TO MYGOVERNMENTONLINE.ORG OR OTHERWISE PROVIDE TO THE PERMIT CENTER THE SIGNED, CERTIFIED APPLICABLE TPDES CONSTRUCTION SITE NOTICE (CSN). POST THE CSN IN PUBLIC VIEW.
- 4. SCHEDULE PRE-CON MEETING WITH THE PERMIT CENTER, 512-805-2630.
- 5. CLEAR AND ROUGH GRADE THE CUT PORTION FO THE DETENTION POND TO BE UTILIZED AS A SEDIMENTATION BASIN FOR THE TEMPORARY EROSION CONTROL.
- 6. BEGIN SITE CLEARING AND GRADING
- 7. HAVE A CISEC, CESSWI, OR QCIS CONDUCT WEEKLY SWPPP INSPECTIONS AND DOCUMENT. MAINTAIN ALL EROSION CONTROL MEASURES AND ADDRESS ALL IDENTIFIED CORRECTIVE ACTIONS
- 8. CONSTRUCT IMPROVEMENTS PER CITY-APPROVED SITE PLANS. 9. COMPLETE PERMANENT STABILIZATION: RESTORE AND RE-VEGETATE ALL UNCOVERED AREAS DISTURBED DURING THE
- PROJECT, INCLUDING OFFSITE AREAS. 10. SCHEDULE SITE FINAL INSPECTION WITH THE PERMIT CENTER: SITEFINAL@SANMARCOSTX.GOV OR 512-805-2630.
- 11. COMPLETE ANY REMAINING "PUNCH LIST" ITEMS.
- 12. WITH CITY APPROVAL, REMOVE TEMPORARY EROSION CONTROLS AFTER PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OF AT LEAST 70% DENSITY, EVENLY DISTRIBUTED WITH NO LARGE BARE AREAS, IS ESTABLISHED.
- 13. UPLOAD TO MYGOVERNMENTONLINE.ORG OR OTHERWISE PROVIDE TO THE PERMIT CENTER THE INITIALED, DATED, COMPLETED TPDES CSN OR TPDES NOTICE OF TERMINATION, AS APPLICABLE. CITY ISSUES CERTIFICATE OF ACCEPTANCE OR OCCUPANCY.

### PEDERNALES ELECTRIC COOPERATIVE, INC.

LA CIMA SUBSTATION 2701 Ranch Road 12, Unit B San Marcos, Texas 78666

			DRAWN	B.FRYE
			CHECKED	G.ULCAK
Ву	Chkd.	Appd.	APPROVED	G.ULCAK



### SHEET INDEX

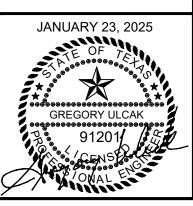
1.	C101	COVER SHEET
2.	C102	GENERAL NOTES
3.	C103	RECORDED PLAT (1)
4.	C104	RECORDED PLAT (2)
5.	C105	EXISTING TOPOGRAPHIC PLAN
6.	C106	EROSION AND SEDIMENTATION CONTROLS AND TREE PROTECTION PLAN
7.	C107	EXISTING TREE LIST & MITIGATION TABLE
8.	C108	EROSION AND SEDIMENTATION CONTROL DETAILS (1)
9.	C109	EROSION AND SEDIMENTATION CONTROL DETAILS (2)
10.	C110	EXISTING DRAINAGE AREA MAP
11.	C111	PROPOSED DRAINAGE AREA MAP
12.	C112	POND LAYOUT & SECTIONS
13.	C113	WATER QUALITY POND AND DETENTION POND (ENLARGED)
14.	C114	WATER QUALITY POND AND DETENTION POND NOTES AND DETAILS
15.	C115	SITE PLAN AND DIMENSIONAL CONTROL PLAN
16.	C116	GRADING PLAN
17.	C117	SLOPE MAP
18.	C118	CUT AND FILL PLAN
19.	C119	STANDARD DETAILS (1)
20.	C120	STANDARD DETAILS (2)
21.	C121	VEGETATIVE / LANDSCAPE PLAN
22.	C122	ENTRANCE ROAD CULVERT AND DETAILS
23.	C053	RETAINING WALL REINFORCEMENT DETAILS
24.	E203	OVERALL FENCE LAYOUT
25.	E204	4' GEOLOGIC FEATURE PROTECTION FENCE LAYOUT
26.	E205	4' GEOLOGIC FEATURE PROTECTION FENCE DETAILS
27.	E206	SUBSTATION FENCE LAYOUT
28.	E207	9' COCHRANE HIGH SECURITY FENCE DETAILS
29.	E207	SLIDING GATE DETAIL
30.	E209	PEDESTRIAN GATE DETAIL
31.	E211	CONCRETE MOW STRIP DETAILS
32.	E212	8' LCRA HIGH SECURITY FENCE DETAILS
33.	E213	7' CHAIN LINK POND FENCE LAYOUT
34.	E214	7' CHAIN LINK POND FENCE DETAILS

### NOTE:

Upon completion of the proposed Stormwater Detention and/or Water Quality structural control(s), and prior to the release of the Certificate of Acceptance or Occupancy by the Permit Center, the Design Engineer shall certify in writing that the proposed structural control(s) was inspected (including date and time of the inspection) and constructed in conformance with the approved plans. Any such structural control(s) built within the City of San Marcos must maintain compliance with the City's Municipal Separate Storm Sewer System (MS4) and applicable MS4 ordinances. Prior to release of the Certificate of Acceptance or Occupancy, a City easement must be shown around all structural controls including a Maintenance Covenant within the City limits.



TX Reg. #F-1594 191 Menger Springs Parkway - Boerne TX 78006 830.249.3887 | POWEREDBYSENERGY.COM



Civil Land Group, LLC 206 W. Main Street Suite 101 Round Rock, Texas 78664

(512) 992-0118 Fax (512) 246-1856 Texas Registered Engineering Firm F-10523

### COVER SHEET

01/02/2025 SCALE

DATE

AS SHOWN DWG. NO.

C-101

### CITY OF SAN MARCOS DEVELOPMENT SERVICES

### CONSTRUCTION REQUIREMENTS AND NOTES Revised Date: 5-22-2024

The following City of San Marcos (COSM) requirements supersede as a minimum requirement, any and all non "redline" comments, specifications, or details listed on the plan.

Plan Review and Revisions

1. The owner, contractor and representatives are responsible for complying with the most current local, state and federal laws, rules and ordinances.

2. The COSM review does not authorize any violations of details, specification, standard products ordinances or laws of the COSM. No code violations listed drawn or described in this plan and/or otherwise installed, manufactured or built, are "approved" by the COSM

3. A copy of COSM approved plans and any approved revisions bearing a review seal from the COSM must be available on-site at all

4. During construction, plan changes or revisions must be uploaded into MyPermitNow for staff review prior to the changes being made.

Final Certificate of Occupancy or Certificate of Acceptance will NOT be issued until all changes have been documented and approved.

- 5. COSM adopted codes with local amendments
- International Building Code 2021 International Energy Conservation Code - 2021
- International Plumbing Code 2021
- National Electric Code 2020 International Mechanical Code - 2021
- International Fire Code 2021 International Fuel Gas Code - 2021
- San Marcos Land Development Code (as amended)
- Smart Code (as amended) Code SMTX (as amended)
- International Property Maintenance Code 2021 International Swimming Pool and Spa Code - 2021
- International Residential One/Two Family Code 2021 International Existing Building Code - 2021

### Accessory-Permits and Activities

. Neither the review of these plans, nor the issuance of a Building or Site Plan Permit, authorizes accessory permits. The owner is responsible for completing the following accessory permits or activities: (verify with the department or division listed below, even if depicted within this plan by the design professional):

### Addressing (Permit Center)

- Assignment of Building Numbers (Permit Center) Controlled Access Gates (Fire Prevention)
- Any Fire Protection System [fire alarm, sprinkler, hood system] (Fire Prevention)
- Any Storage Tanks (Fire Prevention)
- High Piled Combustible Stock (Fire Prevention)
- Any Sign and/or Sign Standard (Permit Center) Irrigation (Permit Center)
- Fence (Permit Center)
- On-Site Sewage Facilities (OSSF's) (Code Compliance) Commercial Swimming pools, spa, & Public Interactive Water Feature (PIWF's) (Permit Center/Code Compliance)
- Backflow Prevention Devices (Water Department) Street Closure/Traffic Control Plans (Public
- Services-Transportation Division)
- Right of Way "ROW' (Public Services-Transportation Division) EPA or TCEQ permits (State/Permit Center) Floodplain Permit (Permit Center)

Any portion of work, including, but not limited to, traffic control, which lies in Texas Department of Transportation (TxDOT), Union Pacific Railroad (UPRR) or County property or right of way, shall be permitted and approved by that authority. All required permits shall be secured by the owner or contractor from COSM and any other appropriate authority. A copy of all permit must be on site and available to City Inspector on request.

3. Contractor shall notify the Engineering Department (512-393-8130) and setup a consultation with Engineering Inspector at least 2 weeks before connection with the City water/wastewater system.

4. Contractor shall submit a road closure permit application and setup a consultation with Engineering Inspector Engineering Department (512-393-8130) at least 2 weeks before any lane or road closure.

### General Construction Notes

1. Pre-Construction Meeting - Site and/or Building contractor(s) is/are responsible for scheduling a pre-construction meeting with COSM inspector(s) by contacting the Permit Center (512-805-2630) prior to any site work, including demolition. For Public Improvement Construction Projects (PICP's) contact the Engineering Department at (512-393-8130) at capital\_imp\_info@sanmarcostx.gov.

2. Site Requirements - The general contractor, owner, and subcontractors are responsible for maintaining a safe and clean work site

3. Any reference in this section to water, wastewater, electric or other public utility is meant to refer to the utility of certification or Authority Having Jurisdiction.

4. Pre-Construction Video - A video in Windows media format or equivalent of the complete site conditions for all Public Improvement Construction Projects (and as requested for Site Plan Projects) is required prior to construction. Provide a copy to the COSM upon

5. Inspections - Inspections can be scheduled with the respective divisions by contacting them at:

Fire Prevention/Inspectionswww.myperSite Final Inspectionssitefinal@siteEngineering Inspections512-393-81PICP Inspections512-393-81	
---	--

6. Trash - Approved trash containment must be provided for each lot under construction. Commercial solid waste haulers servicing construction sites must hold a permit from the Community Enhancement Initiatives Manager and are subject to commercial solid waste hauler fees.

7. Open Burning - Burning is prohibited in the COSM limits. 8. Blasting - Blasting is prohibited in the COSM limits.

9. Construction Noise-Construction noise, declared a nuisance under COSM ordinance, is not permitted between 9:00 p.m. and 7:00 a.m.

10. Weekend and Holiday work - Weekend and Holiday work is not allowed within a public right- of- way without prior approval.

11. Facilities - Maintained portable bathroom facilities must be provided with a minimum of one bathroom unit per one and two family residential lots. All construction sites are required to provide one bathroom unit per ten construction persons on the job.

12. Access - Temporary access driveways on the job site (aka stabilized construction entrances/exits) must comply with the current City detail, including curb protection. No mud. rock, or debris permitted on any off site roadway. The general contractor and/or owner are responsible for immediately removing any debris on roadways caused by construction.

13. Combustible Construction -An all-weather surfaced roadway and working fire hydrant(s) are required to be installed on property prior to the construction of combustible material. Road base alone is not acceptable

Safety - The general contractor, subcontractors and the owner are responsible for maintaining a safe construction operation at all times. All federal OSHA and state details, as well as local codes, shall be adhered to during the construction phase.

15. Address - The site, separate buildings, electrical disconnects, and/or temporary construction trailers must have an address visible from the street or roadway.

16. Required Postings - All COSM and State permits must be posted facing the street or roadway (where practical). Permanent marker is not an approved marking device.

17. Form Survey Requirements- Prior to requesting a foundation inspection by the Building Inspector, a Form Survey must be completed by a State Registered Land Surveyor validating building location to COSM setback requirements.

Floodplain Elevation Certificates - Where and when required, a "Building Under Construction" Elevation Certificate must be completed by a State Registered Land Surveyor (or State Registered Engineer or Architect) on FEMA form expiring Nov 2018 and submitted to the Permit Center at least 36 hours prior to foundation pouring to allow time for review and acceptance. A Land Surveyor's "Finished Construction" Elevation Certificate must also be submitted to and accepted by the Floodplain Administrator before Temporary "Certificate of Occupancy" will be issued.

19. If any geologic or manmade environmental feature is discovered during construction, notify Texas Commission on Environmental Quality (TCEQ) and the COSM Development Services within 24 hours or as soon as practicable. The contractor is required to provide compliance documentation as applicable.

20. EPA/TCEQ - Any required EPA or TCEQ permit(s) is/are separate permit(s) and the responsibility of the contractor. Provide a copy of such permit(s) to the Permit Center.

21. Abandoned wells must be capped or properly abandoned according to the Administrative Rules of the Texas Department of Licensing and Regulation (TDLR), 16 Texas Administrative Code (TAC), Chapter 76, A plugging report must be submitted (by a licensed water well driller) to the TDLR Water Well Drillers Program, Austin Texas. If a well is intended for use, it must comply with 16 TAC.

22. Any tree 9" in diameter or larger at 4.5' above natural grade is considered "regulated". Please refer to the LDC and technical manuals for tree survey, preservation and mitigation requirements. Also refer to the Design & Construction Guide for the tables and tree protection standard details as noted in #25.

23. All product submittals for Public Improvements Construction Projects shall be submitted to the COSM (after approval by the Design Engineer) in PDF format and approved by the COSM prior to construction

24. Prior to COSM acceptance of the project, all graded and disturbed areas are to be at least 70% re-vegetated with no large bare areas (greater than 3' diameter) in accordance with COSM and project specifications.

 On the COSM's Design & Construction Guide webpage, located under Engineering & Capital Improvements, the following documents can be found. These Development Construction Requirements and Notes, Detail Design Criteria, Specifications and Details, Standard Product List, Modification to Austin/TxDOT Standard Specifications, Tree Preservation and Mitigation Tables, Landscape Calculation Table, Parking Table.

26 TX 811(811) must be used to locate all existing utilities for the contractor. Once locates are provided, it is the contractor's responsibility to retain these locations. Repeat locates within 14 days will be charged to the contractor.

27. Appropriate erosion controls and tree protection measures shall be in place prior to any site disturbance.

28. Fire extinguisher is required on all construction sites. Minimum of one per site, per floor at each stairwell or each storage shed. 2A1OBC

minimum size (51bs). 29. Standpipe system required for any construction over 30 feet in

height. Required to maintained within one floor of top construction floor. Approved lighted stairway access required.

30. Construction site required to be kept clean, travel paths clear and stored combustible pile spread out.

 Fire watches are required to be approved prior to implementing (does not apply for hot work). (Fire Prevention at 512-393-8480)

32. Hot work permit(s) required as per Chapter 38 of Fire Code. 33. If building is designed with an automatic sprinkler system, the

system must be installed, inspected and operational before occupying building (includes furniture and staff).

34. All work in the right-of-way or COSM easement will be constructed and restored in accordance to current COSM details and specifications.

### Public Rights-of-Way

1. Where there is a conflict between the drawings and the COSM specifications and details, the more stringent shall apply. In no case is a contractor or owner authorized to construct, build or develop in contrast with adopted COSM codes, standards or details.

Location of existing lines is approximate. The contractor shall verify the location and elevation of utilities prior to beginning construction. Conflicts with the proposed work should be brought to the attention of the Engineer of Record and the project inspect immediately. It shall be the contractor's responsibility to repair damages made as a result of construction at the contractor's

3. The contractor shall not attempt to determine locations by s from plans. While every attempt has been made to prepare the

plans to scale, the Engineer of record should be consulted if clarifications are needed.

4. Emergency Telephone Numbers (numbers may change contractor should verify numbers

SM Water/WW Utilities

811 (formerly DigTess)	811
lice - Fire - EMS	911
DOT	512-353-1061
ntury Telephone	512-754-5223
uthwestern Bell	1-800-464-7928
s Company	1-800-427-7142
ectrum	855-578-5500
ande	800-218-5725
iversity	512-245-2108 and/or 245-2508
dernales Electric	888-554-4732
iebonnet Electric	800-949-4414
1 Electric Utilities	512-393-8313

5. The contractor is responsible for acquiring any temporary construction easements for the project. Documentation shall be provided to the Permit Center.

512-393-8010

6. The contractor shall be responsible for relocating any COSM and wastewater utility lines and service taps where required. contractor shall be responsible for relocating any COSM traffic facilities where required at the contractor's expense.

7. Contractor shall keep driveways open and accessible durin construction. Underground utilities crossing commercial drivey shall be installed such that a minimum 10' traffic lane is kept op all times. Spoilage material shall not be mounded more than 1 adjacent to a driveway or intersection.

8. No construction operation relative to installation of utilities, including stockpiling of excavated materials, shall be permitted the limits of existing pavements carrying traffic on state highwa COSM roads and streets unless specifically authorized in writi the respective Authority Having Jurisdiction

The contractor shall develop and submit a traffic control pla which will show both daytime and nighttime operations during w phases of construction. The plan must be submitted to mypermitnow.org for review at least 14 days before construction begins. The plan must be approved before construction begins contractor shall designate a person who will be accessible on hour basis and responsible for the maintenance of the traffic co devices. This 24-hour contact number must be posted visible street on the job site and provided to the Public Services-Transportation Division. The contractor is responsible for furn the traffic control devices described in the plan and all costs associated with installation, maintenance and removal.

10. Any damage caused to any existing COSM water/wastewa storm sewer infrastructure will be repaired by the contractor to satisfaction of the COSM at the contractor's expense prior to t Certificate of Occupancy or Certificate of Acceptance being iss

When work is performed on private property or easements lawn grass, shrubbery, flowers, site utilities (including irrigation systems), trees and fences in the way of the work shall be rem protected and replaced to their original condition and position completion of the work. All property monuments disturbed durin construction shall be restored by a Registered Professional La Surveyor at the contractor's expense.

The contractor must provide a Proof of Destination and true route documents for trucks used to deliver or remove material spoils from the job site upon request by inspectors.

13. All valves, manholes, SMEU electrical facilities and other appurtenances must remain accessible to COSM crews AT AL TIMES during construction. These appurtenances shall also b to final grade, if within the project limits.

All assets constructed within the COSM's right-of-way mu submitted to the COSM with GPS coordinates at the end of e project. Coordinates will be submitted for all assets (including directional changes, valves, manholes, format, on the NAO 19 State Plane Texas South Central FIPS 4204 Feet Coordinate All coordinates will be submitted in grid units. The required fil for coordinate data submission is \*txt format.

15. The right-of-way will be kept clean at all times. Daily and sometimes more frequent sweeping may be required. A citatio issued if the right-of-way is not kept clean. Do NOT wash, swe otherwise cause construction soil or debris to be deposited into storm water drainage or conveyance system.

16. The Owner shall coordinate temporary relocation of mailb with the San Marcos Postmaster. Final location shall be in acc

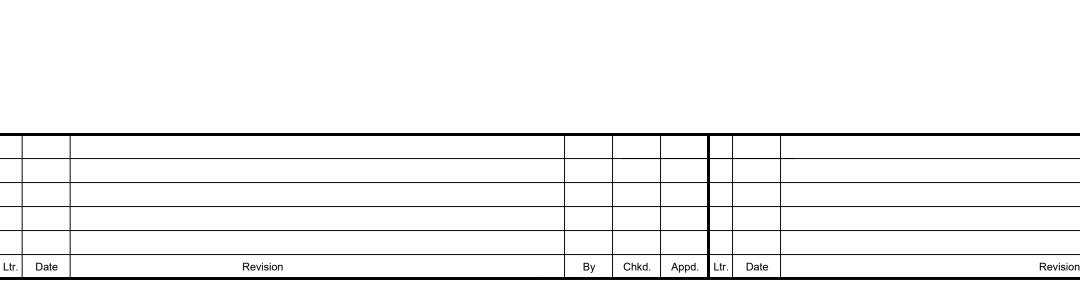
with the local post office requirements 17. All permanent pavement markings should be Type I and Type

per COSM specifications and details.

18. Any traffic changes, including signs, signals and/or paver markings shall be the responsibility of the contractor.

19 All Material Testing shall follow the schedule below

CITY OF SAN MARCOS TE	STING SCHEDU
Description:	*Rate:
Soils: Standard Proctor - Trench Backfill Standard Proctor - Raw Subgrade Densities - Trench Backfill** Densities - Cement Stabilizer Backfill Densities - Raw Subgrade** Densities - Driveways	Per Material Sour Per Material Sour Per 200 LF Pipe p Per 200 LF Pipe Per 100 LF Street Per 5 Driveways
Base: Sieve Analysis Atterbergs Limits Modified Proctor Densities of Compacted Base** Wet Ball Mill Test Triaxial Test	Per 300 LF Street Per 300 LF Street Per Material Char Per 300 LF Street Per Material Sour Per Material Sour
Hot-Mix Asphalt Concrete (HMAC): Extraction, Sieve Analysis Lab Density & Stability Theoretical Density (Rice Method) Temperature - During Lay-Down Thickness - In Place % Air Voids - In Place % Theoretical Density - In Place	Per 500 Tons or D Per 500 Tons or D Per 500 Tons or D Continuous as Ne Per 300 LF Street Per 300 LF Street Per 300 LF Street



ctor ir any expense.	CITY OF SAN MARCOS TESTING SCHEDULE Description: *Rate: Concrete: (Unconfined Compression,	2. pipe t PVC
scaling hese	Z, 14 & 28 Day)Z, 14 & 28 Day)Curb and GutterSidewalkPer 4000 SFDrivewayPer 2500 SFCurb InletsAir, Slump & Compression - In PlaceSlump & Compression - In PlacePer underground structure	less f pipe v separ and v 3. A f engin
	<ul> <li>* The above testing rates are only anticipated guidelines. The COSM reserves the right to require at owner's expense additional testing at the COSM's discretion.</li> <li>** Testing must be conducted during backfill operations</li> <li>*** Density will be per COSM details.</li> </ul>	be loc 4. All autho testal COSI
	Erosion Control and Stormwater Management	5. Th possi
08	<ol> <li>It is unlawful for any general contractor, subcontractor or owner to allow or cause to be allowed, erosion of material from a construction site.</li> </ol>	6. A on all
be	<ol> <li>Appropriate erosion controls and tree protection measures shall be in place prior to any site disturbance. Site work permitted by a Site Plan Permit and/or a Demolition Permit cannot begin until erosion control and tree protection measures are in place.</li> </ol>	7. Ar back appro 8. It i
SM water The c	<ol> <li>All construction-related vehicle parking and activity (including employee personal vehicles and delivery vehicles) must be located within the Limits of Construction, with appropriate controls, or designated parking/access on APPROVED surfaces outside the Limits of Construction.</li> </ol>	and s Servio 9. <u>Ac</u> 10. A
ng ways open at 18″ high	4. Certain erosion control measures identified by the COSM are to be employed to prevent erosion; however, these are only minimum standards. See construction details on Design & Construction Guide webpage, located under Engineering & Capital Improvements.	Use
, d within vays or	5. In the event of unusual site conditions, proximity to any water bodies and/or weather related events, more stringent requirements may be necessary (on-site or off) to maintain erosion and sedimentation control.	Serv Serv Fire
ting by an,	6. The owner or their designee is responsible for all changes, upgrades and continued maintenance of all erosion control and storm water management features at all times.	<sup>3</sup> Dis <sup>3</sup> Dis
ion is. The	<ol><li>Erosion control measures and storm water management practices will be inspected by the COSM prior to and during the construction process:</li></ol>	Tran lines Tran
a 24- control to the iishing	Engineering Inspections is responsible for the inspection of Public Improvements Construction Projects (PICP) and infrastructure in the ROW to the property line or easement, excluding sidewalks and drive ways as noted under the driveway and sidewalk section.	line: <u>Note</u> If th redu deta
/ater, or	Planning/Development Services is responsible for the inspection of all residential and commercial construction.	<u>Note</u> The webj
s, all	<ol> <li>All designs to prevent the erosion of soil and the transport of sediment and debris from the construction site, or surrounding areas disturbed by construction shall, be maintained by the contractor during construction.</li> </ol>	<u>Note</u> The exce Syst
n noved, upon ing and and uck or	9. All streets adjacent to the project site must be kept clean of mud, rocks, trash, and building debris at all times. Daily or more frequent sweeping may be necessary, including the street center/turn lane and gutters. During muddy conditions, clean vehicle tires before leaving the site and/or remove mud, dust and dirt from public streets regularly throughout the day; sweep roads as soon as possible. Or prevent vehicles from leaving the site during muddy conditions. Migration of material or sediment from the site will require daily cleanup of paved streets and of drainage areas impacted by onsite or offsite construction. The contractor is required to take any necessary measures to prevent the migration of dust into the air due to construction activities.	11. F shall hydra 12. / samp locat gate line o for 2 13. /
LL be raised	10. All storm drain inlets within 200 feet of any permitted construction	Com instal contr
ist be ach 983 System. ile type	area must be protected per City detail (refer to #4 above). 11. Dewatering operations must use SWPPP-specified methods only. If such methods are only general or not applicable, pump from the top of the pool of water (rather than the bottom) and discharge to a vegetated, upland area (away from waterbodies or drainage) or use another type of filtration prior to discharge EVERY TIME. Refer to the EPA 2017 Construction General Permit, Section 2.4, as applicable.	14. C utility <u>Publi</u> All ut public
on will be eep or	12. The contractor or owner must have a designated person responsible for continuous (24 hours a day/7 days a week) monitoring of erosion control measures to ensure compliance with all federal, state, and local laws and regulations.	Publi Engir <u>Priva</u>
to any boxes cordance	13. Do NOT wash, sweep or otherwise cause construction soil or debris to be deposited into any storm water drainage or conveyance system.	- All put val
Type II nent	14. COSM MS4- Projects with a disturbed area of 1 to <5 acres must submit a signed, certified Small Construction Site Notice (CSN) to the COSM through MyPermitNow prior to construction activity starting. Projects with disturbed area of 5+ acres must submit a signed, certified Notice of Intent (NOi) to TCEQ; they must also submit the signed certified NOi and Large CSN received from TCEQ to the	Priv utili - All Pre insi
	COSM through MyPermitNow prior to construction activity starting. COSM is the MS4 operator; these submissions to the COSM meet the required initial notification to the MS4 operator. CSN must be displayed at a construction site in public view prior to the commencement of construction activities.	15. <i>F</i> licens shall Divisi prior
or Street lift r lift	15. Contractor shall provide qualified personnel to perform SWPPP inspections on projects equal to 1 acre or greater. Qualified personnel shall have CISEC, CESSWI, or equivalent certification approved by the MS4.	of the Wate servi preve
r lift	16. Qualified personnel shall inspect the construction site at least once every seven calendar days. A project-specific SWPPP must be prepared in accordance with the requirements of the Construction General Permit and shall be designed and signed by a licensed professional engineer (Texas) with competence in this area as required by Texas Engineering Practice Act Section 137 and/or a Certified Professional in Erosion and Sedimentation Control (CPESC). The SWPPP must be onsite at all times and shall be made available to the City of San Marcos upon request.	16. A bacte above of pro a wat appro samp Engir
	Water Utility Notes - The requirements stated in most current version of the Water Distribution System Design Criteria Technical	17. F instal from
	<ol> <li>All taps to the COSM water system for private property shall be metered.</li> </ol>	18. F Conn 19. F plants
/ / led		

When a tap is proposed on an existing Asbestos Cement (AC) he contractor will replace the AC pipe segment with an approve pipe per City Standard Product List (SPL). If the proposed tap is han 24 inches from an AC pipe joint the replacement of the AC will require addition segments to ensure adequate tap and joint ration. New pipe will be connected to the existing AC pipe with ide range coupling adaptor per City SPL.

list of accepted metering devices can be found on the eering webpage under SPL WW-144. All metering devices shall ated on public right-of-way in easement.

I water utility lines leading to private property (except some rized small domestic water lines) shall be provided with a ble back flow prevention device approved by the AWWA and the See detail

e back-flow prevention device must be located as close as ble to the public right-of- way on private property.

ackflow prevention device with a low-flow indicator is required dedicated fire lines as per COSM details

y bypass to a backflow prevention device must have a testable low prevention device at least equivalent to the primary line ved by the AWWA and the COSM.

s the responsibility of the owner and contractor to verify the type ize of the backflow prevention device with the COSM's Water ces (512)393-8010, for the property served, prior to construction.

cepted Metering Devices - See Standard Product List WW-144 ccepted Utility Line Types (verify use with Inspector)

-	<sup>1</sup> Pipe Sizes	<sup>2</sup> SPL
Copper Tubing	1"	WW-613
Polyethylene Tubing	1"	WW-65
PVC	2"	WW-587
PVC	4",6",8",12"	WW-308
DI	6"	WW-27
PVC	8" or 12"	WW-308 or WW-308A
DI	8" or 12"	WW-27 or WW-27F
PVC	16" or 24"	WW-308C
DI	16" or 24"	WW-27 or WW-27F
	Polyethylene Tubing PVC PVC DI PVC DI PVC	Polyethylene Tubing         1"           PVC         2"           PVC         4",6",8",12"           DI         6"           PVC         8" or 12"           DI         8" or 24"

ce to the needed size at the meter per the COSM details. See COSM ls for more information.

COSM Standard Products List (SPL) can be found on the engineering

ninimum distribution system line size is eight (8) inches, with the tion of short Cul-de-Sacs as indicated in the City's Water Distribution n Design Criteria Technical Manual

rivate property fire hydrants shall be RED - Public fire hydrants be factory coated aluminum based silver paint. No pre-owned nts permitted.

I utility lines shall be tested after all appurtenances (hydrants, ling ports, valves, etc.) are installed complete in place and ed at final grade. All utility lines shall be tested from gate valve to valve at 200 psi for 10 minutes and @ 150 psi for 2 hours. A fire edicated for a fire protection system shall be tested @ 200 psi

licensed underground installer certified by the Texas ission on Fire Protection must perform underground fire line ation (Fire Sprinkler System). Most plumbers and utility ctors do not meet this criteria! Please verify before construction.

COSM to be given 48-hour notice (required) prior to all testing of ines. COSM inspection required for all utility lines.

ity taps, line installations, extensions, or adaptations in the right-of- way. up to and including the metering device, for all Improvement Construction Projects will be inspected by the eering Inspector

domestic water line installations, extensions, or adaptations on lic or private property for all Site Plan Permits, including the e, and meter will be inspected by a Building Inspector.

ate utility lines utilized by any fire protection system (fire line), or y combo line will be inspected by the Fire Prevention Office.

backflow prevention devices will be reviewed by the Backflow vention Manager (Public Services-Water Division) prior to

backflow prevention devices must be tested by a State ed/certified back flow prevention assembly tester. Test reports e on a form as prescribed by the COSM-Public Services Water on. All testers submitting inspection results must be registered o testing devices by the -Public Services Water Division. A copy test results are to be submitted to the COSM-Public Services r Division and the COSM Inspector prior to activation of water e. A copy of the backflow test is to be attached to the back-flow ntion device that was inspected and/or tested.

water lines leading to private property must provide a riological test to the inspector noted in the inspections section All bacteriological samplings must be certified within 20 days ject acceptance. On all dead-end lines and lines not yet tied into er system, an automatic flush valve shall be installed with an wed water meter. After the pressure tests and bacteriologica les have passed, the Contractor must give notice to the eering Inspector for activation of the device.

ire hydrants must be placed or moved to finished elevation after ation per detail 511S-17-SM. Finished elevation is 18" to 24" the center of the lowest connection to the adjacent grade.

ire hydrant is rejoined within 100 feet of the Fire Department ection (FDC) is building is equipped with a fire sprinkler system

ire hydrants are required to have a clear area of 5 feet. No , trees or obstacles allowed except as impact protection outline

20. Fire hydrants are required to be marked with a blue reflective marker in the roadway 6" to 10" off center of the roadway towards the hydrant. On corner lot installation, both roadways are required to be

 The underground contractor must submit a report (on company) letterhead) to fireplan@sanmarcostx.gov indicating that the fire line is complete and has been flushed of all debris.

22. All fire hydrants that have not been inspected or flushed are considered "out of service" and are required to have a black plastic wrap covering the hydrant.

23. COSM will not perform the tie-in of a public service line to a private line.

24. It is the responsibility of the owner or contractor to tie to the COSM's line from the right-of-way or public easement to the private property line. It is the licensed plumber/utility contractor responsibility to maintain proper slope and connection of system to the public connection.

25. Fire hydrants capable of producing the required GPM (based on construction type) must be located within 500 foot of the most remote portion of the building using accessible surfaced roadway for neasurement.

26. Fire hydrants must be operational prior to beginning combustible construction.

27. All valves in a COSM right-of-way will be operated by COSM personnel only. The contractor may not operate any COSM owned valve. The general contractor will be fined if a water valve is operated without express written consent of the Water Utility, regardless of who operated the valve.

28. Only temporary water meters approved by the COSM are authorized for use on any fire hydrant (public or private).

29. Temporary meters may be relocated from one hydrant to another only by Water- Waste/Water personnel

30. A fine will be imposed on operators using fire hydrants without meters, with unapproved meters, or failing to use approved backflow prevention or air gap protection.

31. Thrust blocks are not permitted. All fittings shall be mechanically restrained. Bell joints shall be mechanically restrained in accordance with the Engineer of Record's specifications based on site conditions. A joint restraint table, sealed by the Engineer of Record must be submitted with each set of plans. If a joint restraint table is not available, all joints must be mechanically restrained.

 The service address must be posted and visible (as per COSM specifications) from the street prior to the installation of the meter as per Chapter 38 of local ordinances.

33. Disinfection sample taps shall be installed at proper locations (not more than 1000-foot intervals) along public water lines.

**Nastewater** - The requirements stated in most current version of the Wastewater Collection System Design Criteria Technical Manual shall supersede these notes if they conflict.

1. <u>Required Equipment</u> - The following are the acceptable materials for the type of lines or connections shown

Public Sewer Lines - SDR 26 in the COSM right of way (as a minimum). See SPL WW227 &WW-227A

Private Sewer Lines - Schedule 40 or SDR 26 Approved connections -See SPL WW-354

### Inspection

Engineering Inspections is responsible for inspection of all utility taps. line installations, extensions, and adaptations on all Public Improvement Construction Projects. See 510.3(26) Quality Testing for Installed Pipe-of the Modifications of Austin Specifications for

### - 4-psi minimum pressure test on lines

for more details and TCEQ specifications.

Lines must be flushed immediately prior to the TV test

TV test on all public lines (copy of video to Engineering Inspections)

Mandrel test required 30 days after installation

Building Inspections is responsible for inspection of all utility taps. service laterals, and private lines on all Site Preparation Projects and all residential and commercial construction.

Low-pressure air test with 5 PSI on all lines Force mains; 5 psi over working pressure with minimum of 50 psi,

for 1 hour 3. All sewer lines shall be tested after all appurtenances are located

at final grade. 4. All services must be six inch minimum and must have clean-outs dual services shall have clean- outs on each line located no less than six feet apart at the property line. See detail 520s- 1-SM & 520S-3-SM

5. All manholes to be cored (not chiseled) and lined with products from the Standard Products List. See specification 506.5F. Pipe connection to existing manholes and junction boxes for more details

6. All manholes shall be tested per specification 506.6 prior to lining. All manholes are to be lined per SPL 511.

7. The COSM will not perform the tie-in of lines to privately owned and maintained lines or clean- outs. It is the licensed plumber/utility contractor responsibility to maintain proper slope, connection and drainage of system to the public connection.

Pipe stub-outs must be provided and located in manholes to facilitate future expansion.

9. All commercial property must have a wastewater sampling port installed per the COSM's sample port detail 520-4B-SM, and vastewater collection system standard design criteria. The wastewater sampling port must not be located in a drive-thru, traffic lane, or driveway access area.

### Driveways and Sidewalks

1. All sidewalks and driveway approaches will be inspected by the COSM.

Engineering Inspections will inspect the following items:

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By Chkd. Appd



PEDERNALES ELECTRIC COOPERATIVE, INC.

LA CIMA SUBSTATION 2701 Ranch Road 12, Unit B San Marcos, Texas 78666

CHECKED G.ULCAK

APPROVED G.ULCAK

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- Engineering Inspections will inspect the following items:
- All Commercial project driveway approaches and sidewalks Any new, extension or addition to a drive on a existing property
- (Driveway Permit or Infill New Residential) All new subdivision work inclusive of the street, curb, curb cut ramps to a public street, sidewalk and driveway access installed during initial construction prior to COSM acceptance of subdivision
- All Public Improvement Construction Projects
- Building Inspections will inspect the following: - All sidewalk construction and driveway access in development "build-out" after acceptance of subdivision by the COSM.
- Meters, valves, or other obstructions are not permitted in sidewalks or driveways. All meters must be located in a public right-of-way or easement given by the property owner (and legally recorded).
- 3. Meters and other utility obstructions must be relocated by and at the expense of the own e r or contractor.
- 4. Driveway access grade at sidewalk cannot exceed 2%.
- 5. All sidewalks and driveways shall meet applicable TAS standards.

### Public Street Construction

1. All new street construction in public right-of-way and easements will be inspected by the Engineering Inspectors.

2. All street lights shown on the approved construction plans shall be active prior to project acceptance. If street light service is to be in the COSM's name, contact San Marcos Electric Utility, (512) 393-8300

3. Flexible Base & Sub-grade: Will follow the City specification noted in the 200: Series Subgrade & Base Construction.

4. Cutback Asphaltic material (Prime Coat) shall be applied to the completed base course and allowed to set 24 hours before paving the roadway. An Emulsified Asphalt Tack Coat can be used in lieu of the prime coat and/or placed on the prime coat.

5. Asphalt must be at a temperature between 250° F and 350° F when discharged from the mixer and compacted using steel-wheel rollers, vibratory rollers and pneumatic-tire rollers.

6. The contractor or their testing technician shall check the density of the compacted asphalt at regular intervals. Samples of the asphalt shall be taken as the asphalt leaves the hopper of the paving machine before compaction and cores shall be taken at these sampling locations. A minimum of 3 samples shall be taken daily unless the total volume is determined to be small enough to warrant taking only one sample.

### Electric Utility Notes

1. Electrical service will be provided in accordance with SMEU "Rules and Regulations" and "Line Extension Policy" within the PUC designated SMEU service area

2. Electric Service in San Marcos Electric Utility (SMEU) Service Territory: A. For non-emergency service, Contact SMEU 48 hours in advance to

schedule electric service connection for new service or disconnection/reconnection for modified service For Emergency Electric Service contractors may disconnect and

reconnect temporary electric service without advanced notice. Contractor must contact SMEU within 24 hours to make permanent electric service connection.

B. SMEU must receive notification from the COSM Electrical Inspector that the Customer's electrical installation has passed final electrical inspections before electric service is connected by SMEU personnel.

C. SMEU has the right to deny service connection for any identified electrical hazard.

3. For plan review of projects requiring electric service from San Marcos Electric Utility (SMEU), a minimum of the following items must be provided to SMEU by the property owner or contractor: a completed Electric Service Application, a set of customer drawings including plat drawings showing all easements, scaled elevation drawings for any structures that exceed a single story, and a total connected load estimate (including service voltage

Contact San Marcos Electric Utility at 512-393-8300 for detailed plan review submittal requirements.

4. All services shall have a single disconnecting means in an approved location on the exterior or outside of the building served.

5. All electric disconnecting means and meters shall be assessable.

6 At the time of Phase 2 inspection, the meter sockets shall be labeled with 1" x 2" digitally printed vinyl stickers. Disconnect panel(s) shall be labeled with 2" x 4" digitally printed vinyl stickers. Panel must have address numbers number of panel (ex 2 of 4) and location of next disconnect panel Both doors and meter socket must have permanent labeling affixed before SMEU will install meters. SMEU may deny meter connection if the required labeling is not present.

7. Panel and socket markings are not allowed to be paint or marker.

The service mast shall have at least two points of attachment to the building. One point of attachment must be within 12 inches of the service equipment. The service equipment may not be used to meet this requirement

9. If electric overhead power lines exist in the project area, Texas Law Article 1436c, prohibits all activities in which persons or equipment may come within six (6) feet of energized overhead power lines and Federal Regulations, Title 29, Part 1910.180(i) and Part 1926.550(a)(15) require a minimum of 10 feet from these facilities. Where Contractor must work near overhead power lines, contact the service provider for the lines to be de-energized and/or moved at Contractor's expense. For non-emergency work, contact SMEU 48 hours in advance to schedule lines to be de-energized or moved

10. Contact the local service provider for information on their specific installation requirements

San Marcos Electric Utility(SMEU) 512-393-8300 Pedernales Electric Cooperative 888-554-4732 #7525 Bluebonnet Electric Cooperative 800-842-7708 (Ask for Lockhart engineering dept.)

NOTE: This document is not meant or designed to be an all-inclusive document. The function of this 'requirements' document is to provide information on issues identified by the COSM inspection staff based on daily field operations and common issues. It is the intent of this document to facilitate the construction process in common overlapping areas between COSM departments and divisions and private contractors. In all cases, contractors, subcontractors and owners are responsible for knowing and utilizing the state, federal, or COSM codes and laws where applicable. No code violations are "approved". COSM signed or reviewed plans are not authorization to violate codes, laws, or ordinances. A copy of plans bearing a seal from Building Inspections and/or the Permit Center is required to be available on-site at all times. Any changes or revisions to these plans must first be submitted to the COSM by the design professional for review and written authorization. A review seal from the COSM must be affixed to these revised plans and they must be available on- site at all times.



TX Reg. #F-1594 191 Menger Springs Parkway - Boerne TX 78006 830.249.3887 | POWEREDBYSENERGY.COM



Civil Land Group, LLC 206 W. Main Street Suite 101 Round Rock, Texas 78664 (512) 992-0118 Fax (512) 246-1856

Texas Registered Engineering Firm F-10523

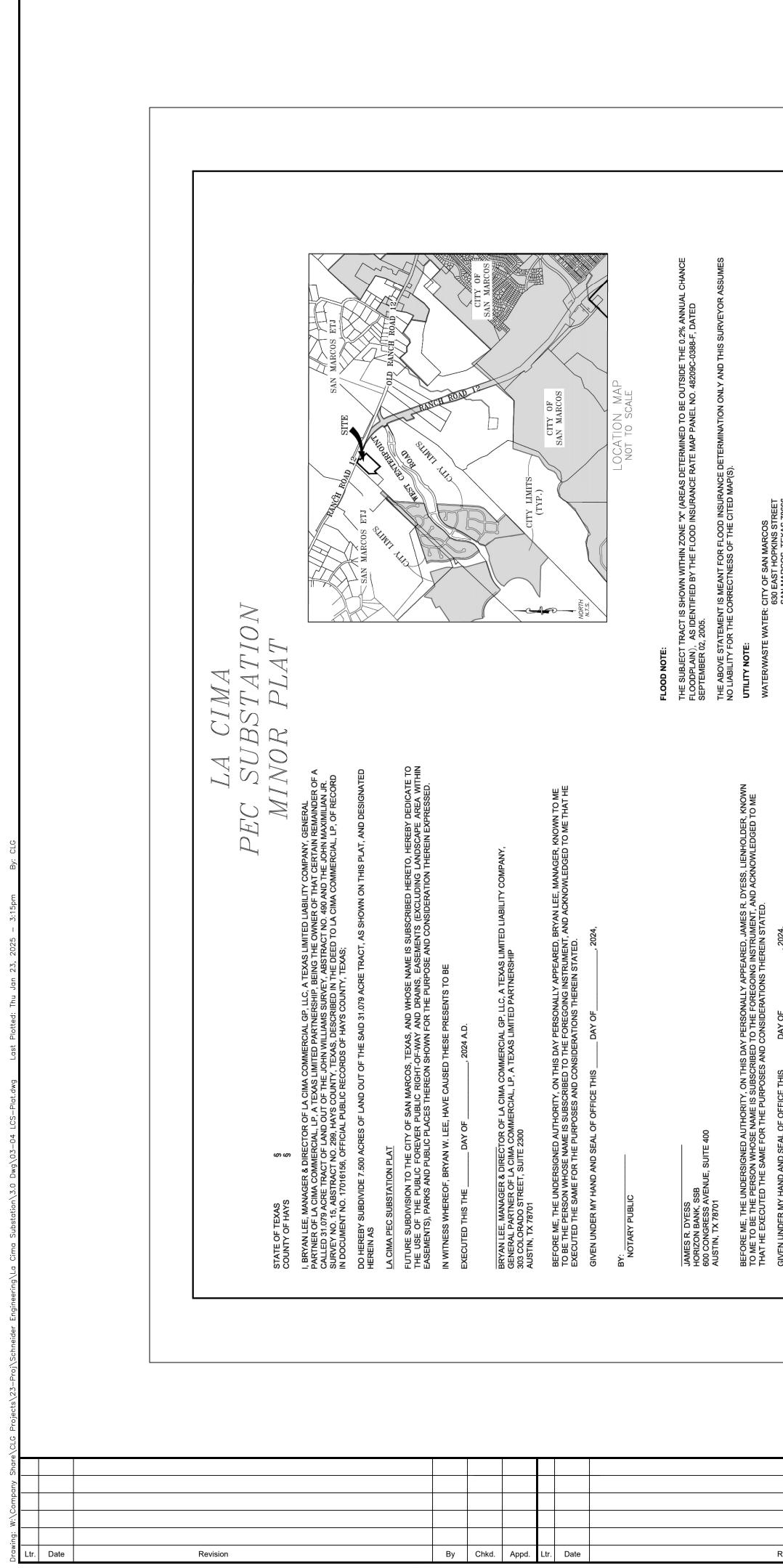
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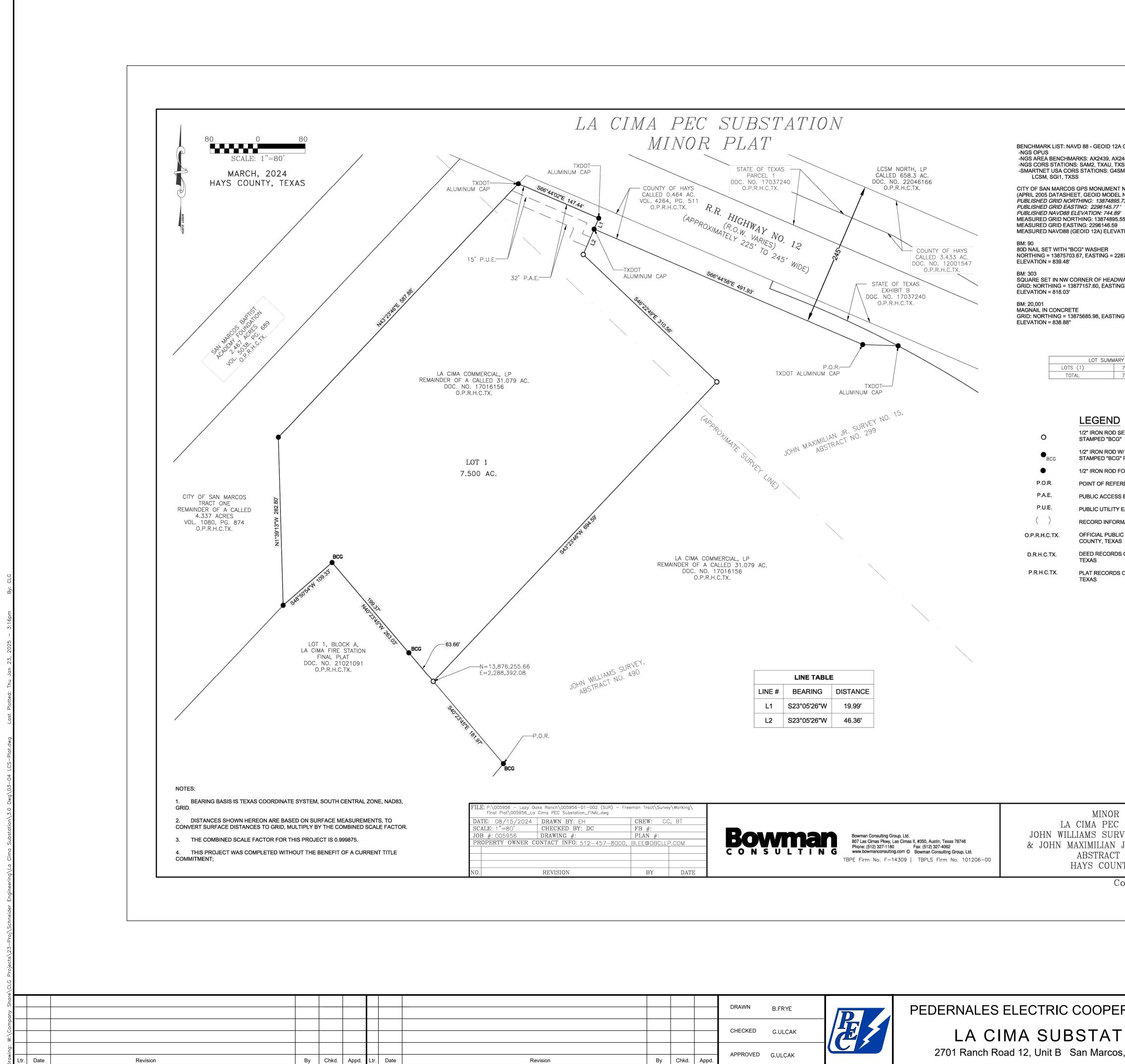
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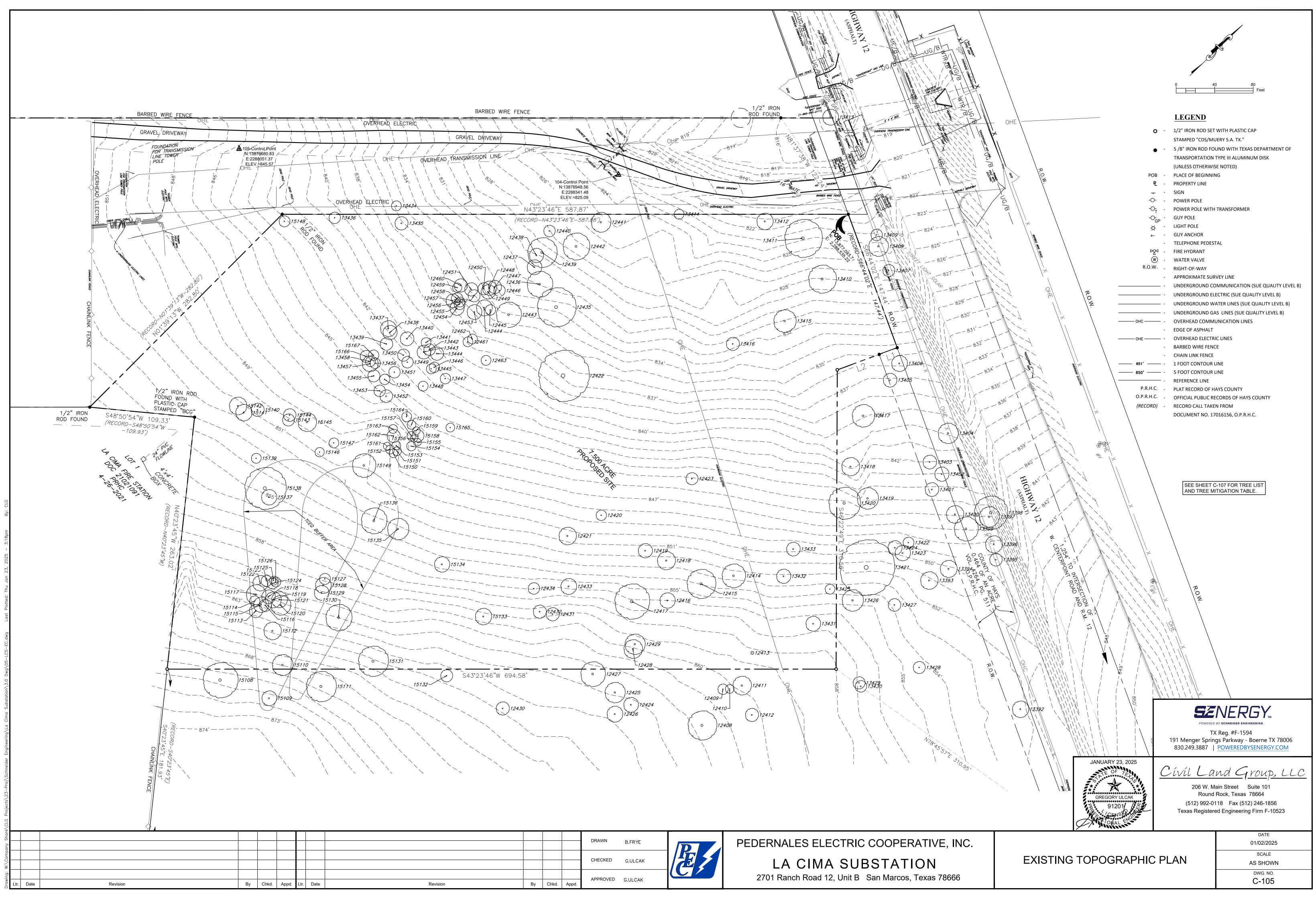
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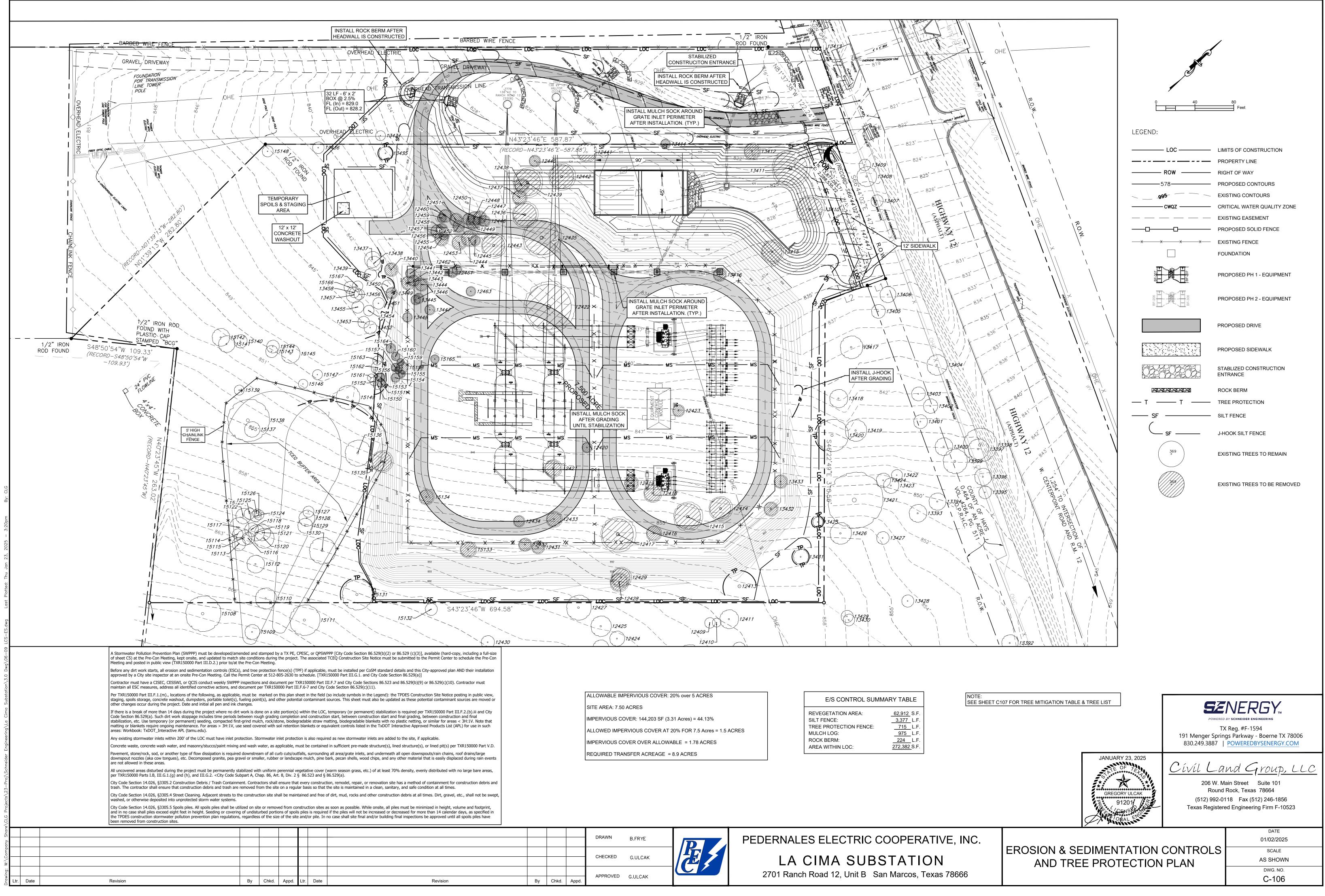
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AYS COUNTY, AYS COUNTY, AYS COUNTY, SHEET 2 OF AT BSTATION , ABSTRACT 490 SURVEY NO. 15, 299 TEXAS 4 #PC 24-30	2			роwered T) 191 Menger Sprin 830.249.3887	<i>BY</i> SCHNEIDER ENGINEERING (Reg. #F-1594 gs Parkway - Boerne TX 78006 <u>POWEREDBYSENERGY.COM</u> <i>Md GYOUP, LLC</i> lain Street Suite 101 Rock, Texas 78664 118 Fax (512) 246-1856 ed Engineering Firm F-10523 DATE
AYS COUNTY, AYS COUNTY, AYS COUNTY, SHEET 2 OF AT BSTATION , ABSTRACT 490 SURVEY NO. 15, 299 TEXAS 4 #PC 24-30	2			роwered T) 191 Menger Sprin 830.249.3887	<i>BY</i> SCHNEIDER ENGINEERING (Reg. #F-1594 gs Parkway - Boerne TX 78006 <u>POWEREDBYSENERGY.COM</u> <i>Md GYOUP, LLC</i> lain Street Suite 101 Rock, Texas 78664 118 Fax (512) 246-1856 ed Engineering Firm F-10523 DATE 01/02/2025
SORDS OF HAYS AYS COUNTY, AYS COUNTY, SHEET 2 OF AT BSTATION , ABSTRACT 490 SURVEY NO. 15, 299 TEXAS	2	PLAT (2	2)	роwered T) 191 Menger Sprin 830.249.3887	<i>BY</i> SCHNEIDER ENGINEERING (Reg. #F-1594 gs Parkway - Boerne TX 78006 <u>POWEREDBYSENERGY.COM</u> <i>Md GYOUP, LLC</i> lain Street Suite 101 Rock, Texas 78664 118 Fax (512) 246-1856 ed Engineering Firm F-10523 DATE



				DRAWN		
				Brown	B.FRYE	
				CHECKED		
				CHECKED	G.ULCAK	
Revision	Ву	Chkd.	Appd.	APPROVED	G.ULCAK	



12413         CEDAR         27.5           12414         OAK(MULT)         21.5         R           12415         OAK(MULT)         26.5         H         R           12416         OAK(MULT)         32         R           12417         OAK(MULT)         32         R           12417         OAK(MULT)         32         R           12419         CEDAR         13         R           12420         OAK(MULT)         9.5         R           12421         CEDAR(MULT)         16         R           12422         OAK(MULT)         11         R           12423         EMANULT)         14.5         R           12424         CEDAR(MULT)         14.5         R           12433         CEDAR(MULT)         14.5         R           12433         CEDAR(MULT)         13.5         R           12433         OAK(MULT)         13.5         R           12433         OAK(MULT)         13.5         R           12434         OAK(MULT)         13.5         R           12435         OAK(MULT)         14.5         R           12443         OAK(MULT)         14.5 <th></th> <th>٦</th> <th>REE TABLE</th> <th></th> <th></th>		٦	REE TABLE		
12414         OAY(MULTI)         21.5         H         R           12415         OAY(MULTI)         14         R           12416         OAY(MULTI)         14         R           12417         OAY(MULTI)         16.5         R           12418         CEDAR(MULTI)         16.5         R           12412         CEDAR(MULTI)         9.5         R           12421         CEDAR(MULTI)         46.5         H         R           12422         OAY(MULTI)         46.5         H         R           12423         ELM(MULTI)         11         R         R           12424         CEDAR(MULTI)         18.5         R         R           12423         CEDAR(MULTI)         14.5         R         R           12432         CEDAR(MULTI)         13.5         R         R           12433         CAY(MULTI)         13.5         R         R           12434         OAY(MULTI)         13.5         R         R           12435         OAY(MULTI)         13.5         R         R           12435         OAY(MULTI)         14.5         R         R           12435         OAY(MULTI)	POINTNO.		SIZE	HERITAGE	REMOV
12415         OAK(MULTI)         26.5         H         R           12416         OAK(MULTI)         32         R           12418         CEDAR(MULTI)         16.5         R           12419         CEDAR(MULTI)         16.5         R           12420         OAK(MULTI)         16.5         R           12421         CEDAR(MULTI)         16.5         R           12422         OAK(MULTI)         11         R           12422         OAK(MULTI)         11         R           12422         CEDAR(MULTI)         17         R           12423         EEDAR(MULTI)         18.5         R           12433         CEDAR(MULTI)         14.5         R           12435         OAK(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12430         OAK(MULTI)         14.5         R           12430         OAK(MULTI)         13.5         R           12443         OAK(MULTI)         14.5         R           12444         OAK(MULTI)         14.5         R           12	12413	CEDAR	27.5		
12416         OAK(MULTI)         14         R           12418         CEDAR(MULTI)         32         R           12419         CEDAR         13         R           12420         OAK(MULTI)         9.5         R           12421         CEDAR         13         R           12422         OAK(MULTI)         9.5         R           12422         OAK(MULTI)         16         R           12423         CEDAR(MULTI)         11         R           12428         CEDAR(MULTI)         11         R           12430         CEDAR(MULTI)         14.5         R           12431         CEDAR(MULTI)         14.5         R           12432         CEDAR(MULTI)         13.5         R           12433         OAK(MULTI)         13.5         R           12433         OAK(MULTI)         13.5         R           12434         OAK(MULTI)         14.5         R           12434         OAK(MULTI)         10.5         R           12441         OAK(MULTI)         10.5         R           12442         OAK(MULTI)         10.5         R           12441         OAK(MULTI)	12414	· · ·	21.5		R
12417         OAK(MULTI)         32         R           12418         CEDAR(MULTI)         16.5         R           12420         OAK(MULTI)         9.5         R           12420         CAK(MULTI)         9.5         R           12421         CEDAR(MULTI)         16         R           12422         OAK(MULTI)         11         R           12423         ELM(MULTI)         11         R           12424         CEDAR(MULTI)         11         R           12425         CEDAR(MULTI)         18.5         R           12433         CEDAR(MULTI)         13.5         R           12434         CEDAR(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12436         OAK(MULTI)         14.5         R           12430         OAK(MULTI)         13.5         R           12440         OAK(MULTI)         14.5         R           12442         OAK(MULTI)         13.5         R           12444         OA	12415	OAK(MULTI)	26.5	Н	R
12418         CEDAR(MULTI)         16.5         R           12420         CAK(MULTI)         9.5         R           12421         CEDAR(MULTI)         16         R           12422         CAK(MULTI)         16         R           12422         CAK(MULTI)         11         R           12423         ELM(MULTI)         11         R           12423         CEDAR(MULTI)         18.5         R           12432         CEDAR(MULTI)         18.5         R           12432         CEDAR(MULTI)         14.5         R           12433         CEDAR(MULTI)         13.5         R           12434         CAK(MULTI)         13.5         R           12435         CAK(MULTI)         13.5         R           12436         CAK(MULTI)         13.5         R           12437         CAK(MULTI)         10.5         R           12438         CAK(MULTI)         13.5         R           12440         CAK(MULTI)         10.5         R           12441         CAK(MULTI)         13.5         R           12442         CAK(MULTI)         14.5         R           12442 <td< td=""><td>12416</td><td>OAK(MULTI)</td><td>14</td><td></td><td>R</td></td<>	12416	OAK(MULTI)	14		R
12418         CEDAR(MULTI)         16.5         R           12420         CAK(MULTI)         9.5         R           12421         CEDAR(MULTI)         16         R           12422         CAK(MULTI)         16         R           12422         CAK(MULTI)         11         R           12423         ELM(MULTI)         11         R           12423         CEDAR(MULTI)         18.5         R           12432         CEDAR(MULTI)         18.5         R           12432         CEDAR(MULTI)         14.5         R           12433         CEDAR(MULTI)         13.5         R           12434         CAK(MULTI)         13.5         R           12435         CAK(MULTI)         13.5         R           12436         CAK(MULTI)         13.5         R           12437         CAK(MULTI)         10.5         R           12438         CAK(MULTI)         13.5         R           12440         CAK(MULTI)         10.5         R           12441         CAK(MULTI)         13.5         R           12442         CAK(MULTI)         14.5         R           12442 <td< td=""><td>12417</td><td>OAK(MULTI)</td><td>32</td><td></td><td>R</td></td<>	12417	OAK(MULTI)	32		R
12419         CEDAR         13         R           12420         OAK(MULTI)         9.5         R           12421         CEDAR(MULTI)         16         R           12422         OAK(MULTI)         11         R           12423         ELM(MULTI)         111         R           12423         CEDAR(MULTI)         117         R           12432         CEDAR(MULTI)         12         R           12433         CEDAR(MULTI)         14.5         R           12433         CEDAR(MULTI)         10.5         R           12435         OAK(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12436         OAK(MULTI)         13.5         R           12437         OAK(MULTI)         13.5         R           12438         OAK(MULTI)         14.5         R           12441         OAK(MULTI)         13.5         R           12442         OAK(MULTI)         14.5         R           12442         OAK(MULTI)         13.5         R           12443         OAK(MULTI)         14.5         R           12444         OAK(MULT					R
12420         CA4(MULTI)         9.5         R           12421         CEDAR(MULTI)         16         R           12422         CA4(MULTI)         46.5         H         R           12423         EUM(MULTI)         11         R         1           12423         CEDAR(MULTI)         11         R         1           12423         CEDAR(MULTI)         18.5         R           12433         CEDAR(MULTI)         14.5         R           12433         CEDAR(MULTI)         14.5         R           12434         CA4(MULTI)         13.5         H         R           12435         CA4(MULTI)         13.5         R         R           12436         CA4(MULTI)         13.5         R         R           12430         CA4(MULTI)         13.5         R         R           12430         CA4(MULTI)         14.5         R         R           12440         CA4(MULTI)         14.5         R         R           12441         CA4(MULTI)         14.5         R         R           12442         CA4(MULTI)         14.5         R         R           12444         CA4(MULTI) </td <td></td> <td></td> <td></td> <td></td> <td></td>					
12421         CEDAR(MULTI)         16         R           12422         OAK(MULTI)         46.5         H         R           12423         EJM(MULTI)         11         R           12428         CEDAR(MULTI)         17         R           12429         CEDAR(MULTI)         18.5         R           12431         CEDAR(MULTI)         14.5         R           12432         CEDAR(MULTI)         14.5         R           12433         CAY(MULTI)         10.5         R           12435         OAK(MULTI)         35.5         H         R           12435         OAK(MULTI)         13.5         R         12438           12433         OAK(MULTI)         13.5         R         12439           12434         OAK(MULTI)         10.5         R         12440           12440         OAK(MULTI)         14.5         R         12442           12441         OAK(MULTI)         14.5         R         12444           12444         OAK(MULTI)         14.5         R         12444           12441         OAK(MULTI)         13.8         R         12445           12444         OAK(MULTI)					
12422         OAK(MULTI)         46.5         H         R           12423         ELM(MULTI)         11         R           12423         CEDAR(MULTI)         17         R           12429         CEDAR(MULTI)         18.5         R           12431         CEDAR(MULTI)         18.5         R           12432         CEDAR(MULTI)         14.5         R           12433         CEDAR(MULTI)         10.5         R           12434         OAK(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12437         OAK(MULTI)         13.5         R           12438         OAK(MULTI)         13.5         R           12440         OAK(MULTI)         14.5         R           12441         OAK(MULTI)         14.5         R           12442         OAK(MULTI)         13.5         R           12442         OAK(MULTI)         14.5         R           12443         OAK(MULTI)         13.5         R           12444         OAK(MULTI)         13.5         R		. ,			
12423         ELM(MULTI)         111         R           12428         CEDAR(MULTI)         177         R           12429         CEDAR(MULTI)         18.5         R           12431         CEDAR(MULTI)         18.5         R           12432         CEDAR(MULTI)         14.5         R           12433         CEDAR(MULTI)         10.5         R           12435         OAK(MULTI)         13.5         R           12435         OAK(MULTI)         13.5         R           12436         OAK(MULTI)         13.5         R           12437         OAK(MULTI)         13.5         R           12438         OAK(MULTI)         13.5         R           12439         OAK(MULTI)         14.5         R           12440         OAK(MULTI)         10.5         R           12441         OAK(MULTI)         14.5         R           12442         OAK(MULTI)         13.8         R           12444         OAK(MULTI)         14.5         R           12445         OAK(MULTI)         13.8         R           12445         OAK(MULTI)         13.8         R           12445				U	
12428         CEDAR(MULTI)         117         R           12429         CEDAR(MULTI)         18.5         R           12431         CEDAR         12         R           12432         CEDAR(MULTI)         14.5         R           12433         CEDAR(MULTI)         14.5         R           12434         OAK(MULTI)         13.5         H         R           12435         OAK(MULTI)         13.5         H         R           12436         OAK(MULTI)         13.5         R         R           12438         OAK(MULTI)         13.5         R         R           12439         OAK(MULTI)         13.5         R         R           12430         OAK(MULTI)         10.5         R         R           12440         OAK(MULTI)         14.5         R         R           12442         OAK(MULTI)         14.5         R         R           12444         OAK(MULTI)         14.5         R         R           12444         OAK(MULTI)         13.5         R         R           12445         OAK(MULTI)         11.5         R         R           12445         OAK(MULTI)		, ,		П	
12429         CEDAR(MULTI)         18.5         R           12431         CEDAR         12         R           12432         CEDAR(MULTI)         12         R           12433         CEDAR(MULTI)         14.5         R           12435         OAK(MULTI)         10.5         R           12435         OAK(MULTI)         35.5         H         R           12436         OAK(MULTI)         13.5         R         12437           12437         OAK(MULTI)         13.5         R         12438         OAK(MULTI)         13.5         R           12439         OAK(MULTI)         10.5         R         12441         OAK(MULTI)         10.5         R           12441         OAK(MULTI)         14.5         R         12442         OAK(MULTI)         11.5         R           12442         OAK(MULTI)         14.5         R         12443         OAK(MULTI)         10.5         R           12444         OAK(MULTI)         11.5         R         12445         QAK(MULTI)         11.7         R           12445         OAK(MULTI)         11.5         R         12445         QAK(MULTI)         12.7         R		. ,			
12431         CEDAR         12         R           12432         CEDAR(MULTI)         14.5         R           12433         CEDAR(MULTI)         14.5         R           12434         OAK(MULTI)         10.5         R           12435         OAK(MULTI)         35.5         H         R           12436         OAK(MULTI)         23.5         H         R           12437         OAK(MULTI)         13.5         R         R           12439         OAK(MULTI)         13.5         R         R           12442         OAK(MULTI)         13.5         R         R           12442         OAK(MULTI)         24.5         H         R           12442         OAK(MULTI)         14.5         R         R           12442         OAK(MULTI)         14.5         R         R           12444         OAK(MULTI)         13.5         R         R           12445         OAK(MULTI)         14.5         R         R           12445         OAK(MULTI)         13.5         R         R           12445         OAK(MULTI)         13.5         R         R           12445 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
12432         CEDAR(MULTI)         12         R           12433         CEDAR(MULTI)         14.5         R           12434         OAK(MULTI)         10.5         R           12435         OAK(MULTI)         35.5         H         R           12436         OAK(MULTI)         13.5         R         R           12438         OAK(MULTI)         13.5         R         R           12439         OAK(MULTI)         13.5         R         R           12439         OAK(MULTI)         10.5         R         R           12440         OAK(MULTI)         14.8         R         R           12441         OAK(MULTI)         14.5         R         R           12442         OAK(MULTI)         14.5         R         R           12444         OAK(MULTI)         14.5         R         R           12445         OAK(MULTI)         13.5         R         R <t< td=""><td></td><td>· · · · ·</td><td></td><td></td><td></td></t<>		· · · · ·			
12433         CEDAR(MULTI)         14.5         R           12434         OAK(MULTI)         10.5         R           12435         OAK(MULTI)         35.5         H         R           12436         OAK(MULTI)         23.5         H         R           12437         OAK(MULTI)         13.5         R         R           12439         OAK(MULTI)         13.5         R         R           12439         OAK(MULTI)         13.5         R         R           12440         OAK(MULTI)         10.5         R         R           12442         OAK(MULTI)         14.5         R         R           12444         OAK(MULTI)         13.5         R         R           12445         OAK(MULTI)         13         R         R           12445         OAK(MULTI)         13         R         R           12452         OAK(MULTI)         13.5         R         R					
12434         OAK(MULTI)         10.5         R           12435         OAK(MULTI)         35.5         H         R           12436         OAK(MULTI)         13.5         R           12437         OAK(MULTI)         13.5         R           12438         OAK(MULTI)         13.5         R           12439         OAK(MULTI)         10.5         R           12440         OAK(MULTI)         10.5         R           12441         OAK(MULTI)         14.5         R           12442         OAK(MULTI)         23.5         R           12442         OAK(MULTI)         24.5         H         R           12442         OAK(MULTI)         23.5         R         R           12444         OAK(MULTI)         14.5         R         R           12445         OAK(MULTI)         13.5         R         R           12444         OAK(MULTI)         11.7         R         R           12445         OAK(MULTI)         13.5         R         R           12445         OAK(MULTI)         13.5         R         R           12450         OAK(MULTI)         13.5         R         R </td <td></td> <td></td> <td></td> <td></td> <td></td>					
12435         OAK(MULTI)         35.5         H         R           12436         OAK(MULTI)         23.5         H         R           12437         OAK(MULTI)         13.5         R           12438         OAK(MULTI)         13.5         R           12439         OAK(MULTI)         13.5         R           12440         OAK(MULTI)         10.5         R           12442         OAK(MULTI)         24.5         H         R           12442         OAK(MULTI)         24.5         H         R           12442         OAK(MULTI)         24.5         H         R           12444         OAK(MULTI)         14.5         R         R           12445         OAK(MULTI)         11.5         R         R           12446         OAK(MULTI)         10.5         R         R           12446         OAK(MULTI)         13         R         R           12445         OAK(MULTI)         13         R         R           12450         OAK(MULTI)         13         R         R           12452         OAK(MULTI)         13         R         R           12453         OAK(					
12436         OAK(MULTI)         23.5         H         R           12437         OAK(MULTI)         13.5         R           12438         OAK(MULTI)         13.5         R           12439         OAK(MULTI)         13.5         R           12440         OAK(MULTI)         10.5         R           12441         OAK(MULTI)         24.5         H         R           12442         OAK(MULTI)         24.5         H         R           12444         OAK(MULTI)         14.5         R         R           12445         OAK(MULTI)         14.5         R         R           12444         OAK(MULTI)         10.5         R         R           12445         OAK(MULTI)         13.         R         R           12446         OAK(MULTI)         13         R         R           12447         OAK(MULTI)         11         R         R           12450         OAK(MULTI)         13         R         R           12451         OAK(MULTI)         13.5         R         R           12452         OAK(MULTI)         13.5         R         R           12453         OAK	12434		10.5		R
12437       OAV(MULTI)       13.5       R         12438       OAV(MULTI)       13       R         12439       OAV(MULTI)       10.5       R         12440       OAV(MULTI)       10.5       R         12441       OAV(MULTI)       10.5       R         12442       OAV(MULTI)       24.5       H       R         12442       OAV(MULTI)       14.5       R         12444       OAV(MULTI)       14.5       R         12445       OAV(MULTI)       10.5       R         12444       OAV(MULTI)       11.5       R         12445       OAV(MULTI)       13       R         12446       OAV(MULTI)       13       R         12445       OAV(MULTI)       13       R         12445       OAV(MULTI)       11       R         12450       OAV(MULTI)       13       R         12451       OAV(MULTI)       13       R         12452       OAV(MULTI)       13       R         12454       OAV(MULTI)       13       R         12455       OAV(MULTI)       10.5       R         12456       OAV(MULTI)       12.5	12435	OAK(MULTI)	35.5	Н	R
12438       OAK(MULTI)       13       R         12439       OAK(MULTI)       27       R         12440       OAK(MULTI)       10.5       R         12441       OAK(MULTI)       10.5       R         12442       OAK(MULTI)       24.5       H       R         12442       OAK(MULTI)       24.5       H       R         12444       OAK(MULTI)       14.5       R         12445       OAK(MULTI)       9.5       R         12446       OAK(MULTI)       10.5       R         12446       OAK(MULTI)       11       R         12447       OAK(MULTI)       13       R         12448       OAK(MULTI)       13       R         12449       OAK(MULTI)       13       R         12450       OAK(MULTI)       13       R         12451       OAK(MULTI)       13.5       R         12452       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       10.5       R         12455       OAK(MULTI)       10.5       R         12456       OAK(MULTI)       12.5       R         12460       OAK(MULTI)	12436	OAK(MULTI)	23.5	Н	R
12438       OAK(MULTI)       13       R         12439       OAK(MULTI)       27       R         12440       OAK(MULTI)       10.5       R         12441       OAK(MULTI)       10.5       R         12442       OAK(MULTI)       24.5       H       R         12442       OAK(MULTI)       24.5       H       R         12444       OAK(MULTI)       14.5       R         12445       OAK(MULTI)       9.5       R         12446       OAK(MULTI)       10.5       R         12446       OAK(MULTI)       11       R         12447       OAK(MULTI)       13       R         12448       OAK(MULTI)       13       R         12449       OAK(MULTI)       13       R         12450       OAK(MULTI)       13       R         12451       OAK(MULTI)       13.5       R         12452       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       10.5       R         12455       OAK(MULTI)       10.5       R         12456       OAK(MULTI)       12.5       R         12460       OAK(MULTI)		. ,	13.5		R
12439       OAY(MULTI)       27       R         12440       OAY(MULTI)       10.5       R         12441       OAY(MULTI)       18       R         12442       OAY(MULTI)       24.5       H       R         12442       OAY(MULTI)       24.5       H       R         12442       OAY(MULTI)       24.5       R       R         12444       OAY(MULTI)       14.5       R       R         12445       OAY(MULTI)       10.5       R       R         12445       OAY(MULTI)       112       R       R         12444       OAY(MULTI)       13       R       R         12445       OAY(MULTI)       13       R       R         12450       OAY(MULTI)       11       R       R         12451       OAY(MULTI)       13       R       R         12452       OAY(MULTI)       13       R       R         12453       OAY(MULTI)       13       R       R         12454       OAY(MULTI)       10.5       R       R         12455       OAY(MULTI)       10.5       R       R         12454       OAY(MULTI)	12438				R
12440       OAK(MULTI)       10.5       R         12441       OAK(MULTI)       18       R         12442       OAK(MULTI)       24.5       H       R         12443       OAK(MULTI)       23       R         12444       OAK(MULTI)       14.5       R         12445       OAK(MULTI)       10.5       R         12445       OAK(MULTI)       10.5       R         12446       OAK(MULTI)       10.5       R         12447       OAK(MULTI)       11       R         12448       OAK(MULTI)       13       R         12449       OAK(MULTI)       11       R         12450       OAK(MULTI)       11       R         12451       OAK(MULTI)       13       R         12452       OAK(MULTI)       13       R         12453       OAK(MULTI)       13       R         12454       OAK(MULTI)       13       R         12455       OAK(MULTI)       10       R         12456       OAK(MULTI)       12.5       R         12456       OAK(MULTI)       12.5       R         12461       OAK(MULTI)       9 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
12441       OAK(MULTI)       18       R         12442       OAK(MULTI)       24.5       H       R         12443       OAK(MULTI)       23       R         12444       OAK(MULTI)       14.5       R         12444       OAK(MULTI)       14.5       R         12445       OAK(MULTI)       10.5       R         12446       OAK(MULTI)       10.5       R         12447       OAK(MULTI)       112       R         12448       OAK(MULTI)       13       R         12449       OAK(MULTI)       11       R         12450       OAK(MULTI)       11       R         12451       OAK(MULTI)       13       R         12452       OAK(MULTI)       13       R         12453       OAK(MULTI)       13       R         12454       OAK(MULTI)       13       R         12455       OAK(MULTI)       10       R         12456       OAK(MULTI)       12.5       R         12456       OAK(MULTI)       12.5       R         12450       OAK(MULTI)       12.5       R         12460       OAK(MULTI)       9 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
12442         OAK(MULTI)         24.5         H         R           12443         OAK(MULTI)         14.5         R           12444         OAK(MULTI)         14.5         R           12445         OAK(MULTI)         9.5         R           12446         OAK(MULTI)         10.5         R           12447         OAK(MULTI)         10.5         R           12448         OAK(MULTI)         12         R           12449         OAK(MULTI)         13         R           12449         OAK(MULTI)         13         R           12450         OAK(MULTI)         11         R           12451         OAK(MULTI)         13.5         R           12452         OAK(MULTI)         13.5         R           12454         OAK(MULTI)         13.5         R           12455         OAK(MULTI)         12.5         R           12455         OAK(MULTI)         10.5         R           12455         OAK(MULTI)         12.5         R           12456         OAK(MULTI)         12.5         R           12459         OAK(MULTI)         9         R           12461					
12443         OAK(MULTI)         23         R           12444         OAK(MULTI)         14.5         R           12445         OAK(MULTI)         9.5         R           12446         OAK(MULTI)         10.5         R           12446         OAK(MULTI)         10.5         R           12447         OAK(MULTI)         11         R           12448         OAK(MULTI)         13         R           12449         OAK(MULTI)         11         R           12450         OAK(MULTI)         11         R           12451         OAK(MULTI)         11         R           12452         OAK(MULTI)         13.5         R           12453         OAK(MULTI)         13         R           12454         OAK(MULTI)         10.5         R           12455         OAK(MULTI)         12.5         R           12454         OAK(MULTI)         12.5         R           12455         OAK(MULTI)         12.5         R           12456         OAK(MULTI)         12.5         R           12455         OAK(MULTI)         9         R           12460         OAK(MULTI)		. ,	-	н	
12444       OAK(MULTI)       14.5       R         12445       OAK(MULTI)       9.5       R         12446       OAK(MULTI)       10.5       R         12447       OAK(MULTI)       112       R         12448       OAK(MULTI)       13       R         12449       OAK(MULTI)       13       R         12449       OAK(MULTI)       11       R         12450       OAK(MULTI)       11       R         12451       OAK(MULTI)       11       R         12452       OAK(MULTI)       13.5       R         12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       10.5       R         12456       OAK(MULTI)       12.5       R         12457       OAK(MULTI)       10.5       R         12458       OAK(MULTI)       12.5       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R     <				11	
12445       OAK(MULTI)       9.5       R         12446       OAK(MULTI)       10.5       R         12447       OAK(MULTI)       12       R         12448       OAK(MULTI)       13       R         12449       OAK(MULTI)       13       R         12450       OAK(MULTI)       11       R         12451       OAK(MULTI)       11       R         12452       OAK(MULTI)       11       R         12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       10.5       R         12456       OAK(MULTI)       12.5       R         12457       OAK(MULTI)       10.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       12.5       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R </td <td>-</td> <td></td> <td></td> <td></td> <td></td>	-				
12446       OAK(MULTI)       10.5       R         12447       OAK(MULTI)       12       R         12448       OAK(MULTI)       13       R         12449       OAK(MULTI)       13       R         12450       OAK(MULTI)       11       R         12451       OAK(MULTI)       11       R         12452       OAK(MULTI)       11       R         12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13       R         12455       OAK(MULTI)       13       R         12456       OAK(MULTI)       10       R         12457       OAK(MULTI)       12.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12460       OAK(MULTI)       12       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         13410       OAK(MULTI)       9       R         13411       OAK(MULTI)       20.5       R         13412       CEDAR       15       R		. ,			
12447       OAK(MULTI)       12       R         12448       OAK(MULTI)       13       R         12449       OAK(MULTI)       13       R         12450       OAK(MULTI)       11       R         12451       OAK(MULTI)       11       R         12452       OAK(MULTI)       11       R         12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       10       R         12455       OAK(MULTI)       10.5       R         12456       OAK(MULTI)       12.5       R         12457       OAK(MULTI)       10.5       R         12458       OAK(MULTI)       12.5       R         12459       OAK(MULTI)       12.5       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       13.5       <					
12448         OAK(MULTI)         13         R           12449         OAK(MULTI)         13         R           12450         OAK(MULTI)         11         R           12451         OAK(MULTI)         11         R           12452         OAK(MULTI)         11         R           12452         OAK(MULTI)         13.5         R           12452         OAK(MULTI)         13.5         R           12453         OAK(MULTI)         13.5         R           12454         OAK(MULTI)         13         R           12455         OAK(MULTI)         10         R           12456         OAK(MULTI)         10.5         R           12457         OAK(MULTI)         10.5         R           12458         OAK(MULTI)         10.5         R           12459         OAK(MULTI)         12.5         R           12460         OAK(MULTI)         9         R           12461         OAK(MULTI)         9         R           12462         OAK(MULTI)         9         R           13410         OAK(MULTI)         25.5         H         R           13411         OAK(MU		. ,			
12449       OAK(MULTI)       13       R         12450       OAK(MULTI)       11       R         12451       OAK(MULTI)       11       R         12452       OAK(MULTI)       11       R         12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       13       R         12455       OAK(MULTI)       10       R         12456       OAK(MULTI)       10.5       R         12457       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       8.5       R         12460       OAK(MULTI)       12       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       20.5       R       13411         13412       CEDAR       12       R       13412       R         13414		. ,			
12450       OAK(MULTI)       11       R         12451       OAK(MULTI)       11       R         12452       OAK(MULTI)       11       R         12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       10       R         12455       OAK(MULTI)       10.5       R         12456       OAK(MULTI)       10.5       R         12457       OAK(MULTI)       10.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12450       OAK(MULTI)       12       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       20.5       R       13414         13414       ELM       9       R       13415       1414         13415					
12451       OAK(MULTI)       12       R         12452       OAK(MULTI)       11       R         12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13.5       R         12455       OAK(MULTI)       13       R         12455       OAK(MULTI)       10       R         12455       OAK(MULTI)       10.5       R         12456       OAK(MULTI)       10.5       R         12457       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12450       OAK(MULTI)       12       R         12450       OAK(MULTI)       12       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       20.5       R       13414         13414       ELM       9       R       13415       14141         13415					
12452       OAK(MULTI)       11       R         12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13       R         12455       OAK(MULTI)       10       R         12456       OAK(MULTI)       9       R         12456       OAK(MULTI)       12.5       R         12457       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12450       OAK(MULTI)       10.5       R         12450       OAK(MULTI)       10.5       R         12452       OAK(MULTI)       10.5       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       20.5       R       R         13412       CEDAR       12       R       R         13414       ELM       9       R       R         13413       CEDAR(M	12450	,	11		R
12453       OAK(MULTI)       13.5       R         12454       OAK(MULTI)       13       R         12455       OAK(MULTI)       10       R         12456       OAK(MULTI)       10       R         12457       OAK(MULTI)       10.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12450       OAK(MULTI)       12.5       R         12459       OAK(MULTI)       12.6       R         12460       OAK(MULTI)       12       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       25.5       H       R         13412       CEDAR       15       R       R         13414       ELM       9       R       R         13415       OAK(MULTI)       13.5       R       R         13432					
12454       OAK(MULTI)       13       R         12455       OAK(MULTI)       10       R         12456       OAK(MULTI)       9       R         12457       OAK(MULTI)       12.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12450       OAK(MULTI)       12.5       R         12450       OAK(MULTI)       12.6       R         12450       OAK(MULTI)       12       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       20.5       R       R         13412       CEDAR       15       R       R         13414       ELM       9       R       R         13415       OAK(MULTI)       13.5       R       R         13432       CEDAR(MULTI)       13.5       R       R	12452	OAK(MULTI)	11		R
12455       OAK(MULTI)       10       R         12456       OAK(MULTI)       9       R         12457       OAK(MULTI)       12.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       8.5       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       25.5       H       R         13412       CEDAR       15       R       R         13414       ELM       9       R       R         13415       OAK(MULTI)       13.5       R       R         13413       CEDAR(MULTI)       13.5       R       R         13425       ELM       9       R       R       R         13432       CEDAR(MULTI)       12.5       R<	12453	OAK(MULTI)	13.5		R
12456       OAK(MULTI)       9       R         12457       OAK(MULTI)       12.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12450       OAK(MULTI)       8.5       R         12450       OAK(MULTI)       12       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       34.5       H       R         13412       CEDAR       15       R       R         13414       ELM       9       R       R         13415       OAK(MULTI)       13.5       R       R         13413       CEDAR(MULTI)       13.5       R       R         13414       ELM       9       R       R       R         13432       CEDAR(MULTI)       13.5       R       R         13433       CEDAR(MULTI)	12454	OAK(MULTI)	13		R
12456       OAK(MULTI)       9       R         12457       OAK(MULTI)       12.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12450       OAK(MULTI)       8.5       R         12450       OAK(MULTI)       12       R         12460       OAK(MULTI)       9       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       34.5       H       R         13412       CEDAR       15       R       R         13414       ELM       9       R       R         13415       OAK(MULTI)       13.5       R       R         13413       CEDAR(MULTI)       13.5       R       R         13414       ELM       9       R       R       R         13432       CEDAR(MULTI)       13.5       R       R         13433       CEDAR(MULTI)	12455	OAK(MULTI)	10		R
12457       OAK(MULTI)       12.5       R         12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       10.5       R         12460       OAK(MULTI)       12       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       9       R         13411       OAK(MULTI)       25.5       H       R         13412       CEDAR       15       R       13412       CEDAR       15       R         13414       ELM       9       R       13415       OAK(MULTI)       20.5       R         13416       CEDAR       12       R       13432       CEDAR(MULTI)       13.5       13433       CEDAR(MULTI)       13.5       13433       R         13432       CEDAR(MULTI)       11.5       R       13433       CEDAR(MULTI)       12.5       R         13433       CEDAR(MULTI)       11.5       13438       OAK(MULTI)       14.5       13440       AK(MULTI)	12456	. ,	9		
12458       OAK(MULTI)       10.5       R         12459       OAK(MULTI)       8.5       R         12460       OAK(MULTI)       12       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       9       R         13411       OAK(MULTI)       25.5       H       R         13412       CEDAR       15       R         13414       ELM       9       R       13415       OAK(MULTI)       20.5       R         13416       CEDAR       12       R       13425       ELM       9       1         13431       CEDAR(MULTI)       13.5       1 <td< td=""><td></td><td></td><td>12.5</td><td></td><td></td></td<>			12.5		
12459       OAK(MULTI)       8.5       R         12460       OAK(MULTI)       12       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       9       R         13411       OAK(MULTI)       25.5       H       R         13412       CEDAR       15       R       13412       CEDAR       15       R         13414       ELM       9       R       13416       CEDAR       12       R         13415       OAK(MULTI)       13.5       R       13432       CEDAR       12       R         13432       CEDAR(MULTI)       13.5       R       13433       R       13433       R         13433       CEDAR(MULTI)       12.5       R       R       13433       R       13433       R         13434       OAK(MULTI)       10.5       R       13439       AK(MULTI)       11.5       13439       AK(MULTI)       11.5       R       13444       0AK(MULTI)       10.5		. ,			
12460       OAK(MULTI)       12       R         12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       34.5       H       R         13412       CEDAR       15       R       13412         13414       ELM       9       R       13415       OAK(MULTI)       20.5       R         13415       OAK(MULTI)       10.5       R       13431       CEDAR       12       R         13425       ELM       9        13432       CEDAR(MULTI)       13.5       R         13432       CEDAR(MULTI)       13.5       R       13433       R         13433       CEDAR(MULTI)       12.5       R       13436         13434       OAK(MULTI)       10.5       13439       OAK(MULTI)       11.5         13440       OAK(MULTI)       11.5       R       13442       OAK(MULTI)       10.5       R         13443					
12461       OAK(MULTI)       9       R         12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       34.5       H       R         13412       CEDAR       15       R         13414       ELM       9       R         13415       OAK(MULTI)       20.5       R         13416       CEDAR       12       R         13425       ELM       9       13431         13432       CEDAR(MULTI)       13.5       13432         13433       CEDAR(MULTI)       12.5       R         13435       CEDAR(MULTI)       12.5       R         13436       OAK(MULTI)       10.5       13438         13439       OAK(MULTI)       11.5       13440         13440       OAK(MULTI)       12.5       R         13442       OAK(MULTI)       10.5       R         13443       OAK(MULTI)       10.5       R         13443       OAK(MUL					
12462       OAK(MULTI)       9       R         12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       34.5       H       R         13411       OAK(MULTI)       34.5       H       R         13412       CEDAR       15       R         13412       CEDAR       15       R         13414       ELM       9       R         13415       OAK(MULTI)       20.5       R         13416       CEDAR       12       R         13425       ELM       9       1         13431       CEDAR(MULTI)       13.5       1         13432       CEDAR(MULTI)       13.5       R         13433       CEDAR(MULTI)       12.5       R         13435       CEDAR(MULTI)       10.5       1         13436       OAK(MULTI)       14.5       1         13438       OAK(MULTI)       11.5       1         13439       OAK(MULTI)       12.5       R         13440       OAK(MULTI)       10.5       R         13442       OAK(MULTI) <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
12463       OAK(MULTI)       9       R         13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       34.5       H       R         13412       CEDAR       15       R         13412       CEDAR       15       R         13412       CEDAR       15       R         13414       ELM       9       R         13415       OAK(MULTI)       20.5       R         13416       CEDAR       12       R         13425       ELM       9       1         13431       CEDAR(MULTI)       13.5       1         13432       CEDAR(MULTI)       13       R         13433       CEDAR(MULTI)       12.5       R         13434       OAK(MULTI)       10.5       1         13436       OAK(MULTI)       11.5       1         13437       OAK(MULTI)       11.5       1         13438       OAK(MULTI)       12.5       R         13440       OAK(MULTI)       10.5       R         13441       OAK(MULTI)       10.5       R         13442       OAK(MULTI)       10.5       R <td></td> <td></td> <td></td> <td></td> <td></td>					
13410       OAK(MULTI)       25.5       H       R         13411       OAK(MULTI)       34.5       H       R         13412       CEDAR       15       R         13412       CEDAR       15       R         13412       CEDAR       9       R         13414       ELM       9       R         13415       OAK(MULTI)       20.5       R         13416       CEDAR       12       R         13425       ELM       9       1         13431       CEDAR(MULTI)       13.5       1         13432       CEDAR(MULTI)       13       R         13433       CEDAR(MULTI)       12.5       R         13435       CEDAR(MULTI)       10.5       1         13436       OAK(MULTI)       10.5       1         13437       OAK(MULTI)       11.5       1         13438       OAK(MULTI)       11.5       1         13440       OAK(MULTI)       12.5       R         13441       OAK(MULTI)       10.5       R         13442       OAK(MULTI)       10.5       R         13443       OAK(MULTI)       12.5					
13411       OAK(MULTI)       34.5       H       R         13412       CEDAR       15       R         13414       ELM       9       R         13415       OAK(MULTI)       20.5       R         13416       CEDAR       12       R         13416       CEDAR       12       R         13425       ELM       9       1         13431       CEDAR(MULTI)       13.5       1         13432       CEDAR(MULTI)       13.5       1         13433       CEDAR(MULTI)       12.5       R         13435       CEDAR(MULTI)       10.5       1         13436       OAK(MULTI)       14.5       1         13437       OAK(MULTI)       13       1         13438       OAK(MULTI)       11.5       1         13439       OAK(MULTI)       12.5       R         13440       OAK(MULTI)       10.5       R         13441       OAK(MULTI)       10.5       R         13442       OAK(MULTI)       10.5       R         13443       OAK(MULTI)       12.5       R         13444       OAK(MULTI)       12.5       R					
13412         CEDAR         15         R           13414         ELM         9         R           13415         OAK(MULTI)         20.5         R           13416         CEDAR         12         R           13416         CEDAR         12         R           13425         ELM         9            13431         CEDAR(MULTI)         13.5            13432         CEDAR(MULTI)         13.5            13433         CEDAR(MULTI)         12.5         R           13435         CEDAR(MULTI)         12.5         R           13436         OAK(MULTI)         10.5            13437         OAK(MULTI)         14.5            13438         OAK(MULTI)         11.5            13439         OAK(MULTI)         12.5         R           13440         OAK(MULTI)         10.5         R           13441         OAK(MULTI)         10.5         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R           13444         OAK(MULTI)         12.5					
13414       ELM       9       R         13415       OAK(MULTI)       20.5       R         13416       CEDAR       12       R         13425       ELM       9       13431       CEDAR(MULTI)       13.5         13432       CEDAR(MULTI)       13.5       13432       CEDAR(MULTI)       13.5         13433       CEDAR(MULTI)       13.5       R       13433       R         13434       CEDAR(MULTI)       12.5       R       13435       CEDAR(MULTI)       12.5       R         13435       CEDAR(MULTI)       10.5       13436       OAK(MULTI)       14.5       13438       0AK(MULTI)       13.5       13439       OAK(MULTI)       11.5       13440       OAK(MULTI)       12.5       R       13441       OAK(MULTI)       10.5       R       13442       OAK(MULTI)       10.5       R       13442       OAK(MULTI)       10.5       R       13443       OAK(MULTI)       12.5       R       13443       OAK(MULTI)       12.5       R       13444       OAK(MULTI)       12.5       R       13444       OAK(MULTI)       12.5       R       13444       OAK(MULTI)       12.5       R       13444       OAK(MULTI)       12.5		, ,		Н	
13415         OAK(MULTI)         20.5         R           13416         CEDAR         12         R           13425         ELM         9         13431         CEDAR(MULTI)         13.5           13431         CEDAR(MULTI)         13.5         13432         R           13432         CEDAR(MULTI)         13.5         R           13433         CEDAR(MULTI)         12.5         R           13435         CEDAR(MULTI)         12.5         R           13436         OAK(MULTI)         10.5         13437           13438         OAK(MULTI)         14.5         13438           13439         OAK(MULTI)         11.5         R           13440         OAK(MULTI)         12.5         R           13441         OAK(MULTI)         10.5         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R					
13416         CEDAR         12         R           13425         ELM         9         13431         CEDAR(MULTI)         13.5           13432         CEDAR(MULTI)         13.5         R         13432         CEDAR(MULTI)         13.5           13432         CEDAR(MULTI)         13.5         R         13433         CEDAR(MULTI)         12.5         R           13435         CEDAR(MULTI)         12.5         R         13436         OAK(MULTI)         10.5         13437         OAK(MULTI)         14.5         13438         OAK(MULTI)         13.5         13439         OAK(MULTI)         13.5         13440         OAK(MULTI)         11.5         R         13441         OAK(MULTI)         12.5         R         13442         OAK(MULTI)         10.5         R         13442         OAK(MULTI)         10.5         R         13443         OAK(MULTI)         12.5         R         13444         OAK(MULTI)         12.5         R         13444         OAK(MULTI)         12.5         R         13444         OAK(MULTI)         12         R					
13425         ELM         9           13431         CEDAR(MULTI)         13.5           13432         CEDAR(MULTI)         13           13433         CEDAR(MULTI)         13           13434         CEDAR(MULTI)         13           13435         CEDAR(MULTI)         12.5           13436         OAK(MULTI)         12           13437         OAK(MULTI)         10.5           13438         OAK(MULTI)         14.5           13439         OAK(MULTI)         11.5           13440         OAK(MULTI)         12.5         R           13441         OAK(MULTI)         10.5         R           13442         OAK(MULTI)         10.5         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R           13443         OAK(MULTI)         12.5         R					
13431         CEDAR(MULTI)         13.5           13432         CEDAR(MULTI)         13         R           13432         CEDAR(MULTI)         12.5         R           13433         CEDAR(MULTI)         12.5         R           13435         CEDAR(MULTI)         12.5         R           13436         OAK(MULTI)         10.5         1           13437         OAK(MULTI)         10.5         1           13438         OAK(MULTI)         14.5         1           13439         OAK(MULTI)         11.5         1           13440         OAK(MULTI)         12.5         R           13441         OAK(MULTI)         10.5         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R           13443         OAK(MULTI)         12.5         R           13444         OAK(MULTI)         12.5         R					R
13432         CEDAR(MULTI)         13         R           13433         CEDAR(MULTI)         12.5         R           13433         CEDAR(MULTI)         12.5         R           13435         CEDAR(MULTI)         12         13436           13436         OAK(MULTI)         10.5         13437           13437         OAK(MULTI)         14.5         13438           13438         OAK(MULTI)         13         13           13439         OAK(MULTI)         11.5         13440           13440         OAK(MULTI)         12.5         R           13441         OAK(MULTI)         10.5         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R           13443         OAK(MULTI)         12.5         R           13444         OAK(MULTI)         12.5         R					
13433         CEDAR(MULTI)         12.5         R           13435         CEDAR(MULTI)         12         12           13436         OAK(MULTI)         10.5         13437           13437         OAK(MULTI)         14.5         13438           13438         OAK(MULTI)         13         13           13439         OAK(MULTI)         11.5         13440           13441         OAK(MULTI)         12.5         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         10.5         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R           13443         OAK(MULTI)         12.5         R					
13435         CEDAR(MULTI)         12           13436         OAK(MULTI)         10.5           13437         OAK(MULTI)         10.5           13438         OAK(MULTI)         14.5           13439         OAK(MULTI)         13           13439         OAK(MULTI)         11.5           13440         OAK(MULTI)         12.5           13441         OAK(MULTI)         10.5           13442         OAK(MULTI)         10.5           13443         OAK(MULTI)         12.5           13443         OAK(MULTI)         12.5	13432				R
13436         OAK(MULTI)         10.5           13437         OAK(MULTI)         14.5           13438         OAK(MULTI)         13           13439         OAK(MULTI)         11.5           13440         OAK(MULTI)         12.5           13441         OAK(MULTI)         10.5           13442         OAK(MULTI)         10.5           13443         OAK(MULTI)         10.5           13444         OAK(MULTI)         12.5	13433	CEDAR(MULTI)	12.5		R
13436         OAK(MULTI)         10.5           13437         OAK(MULTI)         14.5           13438         OAK(MULTI)         13           13439         OAK(MULTI)         11.5           13440         OAK(MULTI)         12.5           13441         OAK(MULTI)         10.5           13442         OAK(MULTI)         10.5           13443         OAK(MULTI)         10.5           13444         OAK(MULTI)         12.5			12		
13437         OAK(MULTI)         14.5           13438         OAK(MULTI)         13           13439         OAK(MULTI)         11.5           13440         OAK(MULTI)         12.5           13441         OAK(MULTI)         9           13442         OAK(MULTI)         10.5           13443         OAK(MULTI)         12.5           13444         OAK(MULTI)         12.5					
13438         OAK(MULTI)         13           13439         OAK(MULTI)         11.5           13440         OAK(MULTI)         12.5           13441         OAK(MULTI)         9           13442         OAK(MULTI)         10.5           13443         OAK(MULTI)         10.5           13444         OAK(MULTI)         12.5		, ,			
13439         OAK(MULTI)         11.5           13440         OAK(MULTI)         12.5         R           13441         OAK(MULTI)         9         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R					
13440         OAK(MULTI)         12.5         R           13441         OAK(MULTI)         9         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R           13444         OAK(MULTI)         12         R					
13441         OAK(MULTI)         9         R           13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R           13444         OAK(MULTI)         12         R					R
13442         OAK(MULTI)         10.5         R           13443         OAK(MULTI)         12.5         R           13444         OAK(MULTI)         12         R					
13443         OAK(MULTI)         12.5         R           13444         OAK(MULTI)         12         R			-		
13444 OAK(MULTI) 12 R					
13445 (OAK(MULTI) 9 R		· · · ·			
	13445	oak(multi)	9		R
13446 OAK(MULTI) 9.5 R	13446		9.5		R
13447 OAK(MULTI) 9.5 R	13447		9.5		R
13448 OAK(MULTI) 9 R					

OINTNO.			HERITAGE	REMOV
13449	OAK(MULTI)	<u> </u>		R
13450	OAK(MULTI)	10.5		R.
13450	OAK(MULTI)	10.5		
	· · ·			
13452		11.5		
13453		10.5		
13454	OAK(MULTI)	9.5		
13455	OAK(MULTI)	11		
13456	OAK(MULTI)	9.5		
13457	OAK(MULTI)	14.5		
13458	OAK(MULTI)	9		
15110	CEDAR(MULTI)	19		
15112	CEDAR	16		
15113	OAK(MULTI)	12		
15114	OAK(MULTI)	9.5		
15115	OAK(MULTI)	14		
15116	OAK(MULTI)	11		
15117	OAK(MULTI)	18		
15118	OAK(MULTI)	12.5		
15119	OAK(MULTI)	14.5		
15120	OAK(MULTI)	18		
15121	OAK(MULTI)	14.5		
15122		14		
15123	OAK(MULTI)	10		
15124	OAK(MULTI)	10		
15125	OAK(MULTI)	8		
15126	OAK(MULTI)	9		
15127	OAK(MULTI)	10		
15128	OAK(MULTI)	14.5		
15129	OAK(MULTI)	13.5		
15120	OAK(MULTI)	24	Н	
15131	OAK(MULTI)	27.5	H	
15133	CEDAR(MULTI)	15	11	R
15133	OAK(MULTI)	13		R
15134	OAK(MULTI)	19.5		R
15135	OAK(MULTI)	23.5	Н	71
15136	OAK(MULTI)	23.5	П	
	OAK(MULTI)	38		
15138 15139	OAK(MULTI)	38 9		
	OAK(MULTI)	9		
15140		12		
15141				
15142		16		
15143		11		
15144	OAK(MULTI)	11.5		
15145	OAK(MULTI)	17		
15146	ELM	8.5		
15147	OAK(MULTI)	9		
15148	OAK(MULTI)	10		
15149	OAK(MULTI)	21.5		
15150	OAK(MULTI)	8		
15151	OAK(MULTI)	8		
15152	OAK(MULTI)	8		
15153	OAK(MULTI)	8		
15154	OAK(MULTI)	8.5		R
15155	OAK(MULTI)	7		R
15156	OAK(MULTI)	6.5		R
15157	OAK(MULTI)	8		R
15158	OAK(MULTI)	11		R
15159	OAK(MULTI)	7		R
15160	OAK(MULTI)	8		R
15161	OAK(MULTI)	7		
15162	OAK(MULTI)	12		
15163	OAK(MULTI)	8		
15164	OAK(MULTI)	9		R
15165	ELM	8		R
15166	OAK(MULTI)	11		
	· · ·			
			10	75
15167 TOTAL	OAK(MULTI)	9.5 1873	10	75

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NUMBER			(INCHES)			Filter ,	number			(INCHES)	STATUS	INCHES	CREDITS
	CEDAR OAK(MULTI)	Туре 2 Туре 1	27.5 Preserved 21.5 Removed	0 21.5	0		13455 13456	OAK(MULTI) OAK(MULTI)	Туре 1 Туре 1		eserved eserved	0	5.5 4.75
	OAK(MULTI)	Type 1	26.5 Removed	53	0		13457	OAK(MULTI)	Type 1		eserved	0	7.25
	OAK(MULTI)	Type 1	14 Removed	14	0		13458	OAK(MULTI)	Type 1		eserved	0	4.5
12417	OAK(MULTI)	Type 1	32 Removed	64	0		15110	CEDAR(MULTI)	Type 2		eserved	0	0
	CEDAR(MULTI)	Type 2	16.5 Removed	16.5	0		15112	CEDAR	Type 2		eserved	0	0
	CEDAR	Type 2	13 Removed	13	0		15113 15114	OAK(MULTI) OAK(MULTI)	Туре 1 Туре 1		eserved eserved	0	4.75
	OAK(MULTI) CEDAR(MULTI)	Туре 1 Туре 2	9.5 Removed 16 Removed	9.5 16	0		15114	OAK(MULTI)	Type 1		eserved	0	4.75
	OAK(MULTI)	Type 1	46.5 Removed	93	0		15116	OAK(MULTI)	Type 1		eserved	0	5.5
12423	ELM(MULTI)	Type 1	11 Removed	11	0		15117	OAK(MULTI)	Type 1	18 P	eserved	0	9
	CEDAR(MULTI)	Type 2	17 Removed	17	0		15118	OAK(MULTI)	Type 1		eserved	0	6.25
	CEDAR(MULTI)	Type 2	18.5 Removed	18.5	0		15119		Type 1		eserved	0	7.25
	CEDAR CEDAR(MULTI)	Туре 2 Туре 2	12 Removed 12 Removed	<u>    12</u> 12	0		15120 15121	OAK(MULTI) OAK(MULTI)	Туре 1 Туре 1		eserved eserved	0	7.25
	CEDAR(MULTI)	Type 2	14.5 Removed	14.5	0		15122	OAK(MULTI)	Type 1		eserved	0	7
	OAK(MULTI)	Type 1	10.5 Removed	10.5	0		15123	OAK(MULTI)	Type 1	10 P	eserved	0	5
12435	OAK(MULTI)	Type 1	35.5 Removed	71	0		15124	OAK(MULTI)	Type 1		eserved	0	5
	OAK(MULTI)	Type 1	23.5 Removed	23.5	0		15125		Type 1		eserved	0	4
		Type 1	13.5 Removed	13.5	0		15126 15127	OAK(MULTI) OAK(MULTI)	Туре 1 Туре 1		eserved eserved	0	4.5
	OAK(MULTI) OAK(MULTI)	Type 1 Type 1	13 Removed 27 Removed	<u>    13    </u> 54	0		15127	OAK(MULTI)	Type 1		eserved	0	7.25
	OAK(MULTI)	Type 1	10.5 Removed	10.5	0		15129	OAK(MULTI)	Type 1		eserved	0	6.75
	OAK(MULTI)	Type 1	18 Removed	18	0		15130	OAK(MULTI)	Type 1		eserved	0	24
	OAK(MULTI)	Type 1	24.5 Removed	49	0		15131		Type 1		eserved	0	27.5
		Type 1	23 Removed	23	0		15133 15134	CEDAR(MULTI) OAK(MULTI)	Type 2		emoved emoved	15 14	0
	OAK(MULTI) OAK(MULTI)	Type 1 Type 1	9.5 Removed	14.5 9.5	0		15134	OAK(MULTI)	Туре 1 Туре 1		emoved	14	0
	OAK(MULTI)	Type 1	10.5 Removed	<u> </u>	0		15136	OAK(MULTI)	Type 1		eserved	0	11.75
	OAK(MULTI)	Type 1	12 Removed	12	0		15137	OAK(MULTI)	Type 1	14 P	eserved	0	7
	OAK(MULTI)	Type 1	13 Removed	13	0		15138		Type 1		eserved	0	38
	OAK(MULTI)	Type 1	13 Removed	13	0		15139 15140	OAK(MULTI) OAK(MULTI)	Type 1		eserved eserved	0	4.5
	OAK(MULTI) OAK(MULTI)	Type 1 Type 1	11 Removed 12 Removed	<u> </u>	0		15140	OAK(MULTI)	Туре 1 Туре 1		eserved	0	7.5
	OAK(MULTI)	Type 1	11 Removed	11	0		15142	OAK(MULTI)	Type 1		eserved	0	8
	OAK(MULTI)	Type 1	13.5 Removed	13.5	0		15143	OAK(MULTI)	Type 1	11 P	eserved	0	5.5
12454	OAK(MULTI)	Type 1	13 Removed	13	0		15144	OAK(MULTI)	Type 1		eserved	0	5.75
	OAK(MULTI)	Type 1	10 Removed	10	0		15145	OAK(MULTI)	Type 1		eserved	0	8.5
		Type 1	9 Removed	9	0		15146 15147	ELM OAK(MULTI)	Туре 1 Туре 1		eserved eserved	0	4.25
	OAK(MULTI) OAK(MULTI)	Type 1 Type 1	12.5 Removed 10.5 Removed	12.5 10.5	0		15148	OAK(MULTI)	Type 1		eserved	0	5
	OAK(MULTI)	Type 1	8.5 Removed	8.5	0		15149	OAK(MULTI)	Type 1	21.5 P	eserved	0	10.75
	OAK(MULTI)	Type 1	12 Removed	12	0		15150	OAK(MULTI)	Type 1		eserved	0	4
	OAK(MULTI)	Type 1	9 Removed	9	0		15151		Type 1		eserved	0	4
	OAK(MULTI)	Type 1	9 Removed	9	0		15152 15153	OAK(MULTI) OAK(MULTI)	Туре 1 Туре 1		eserved eserved	0	4
	OAK(MULTI) OAK(MULTI)	Type 1 Type 1	9 Removed 25.5 Removed	<u> </u>	0		15153	OAK(MULTI)	Type 1		emoved	8.5	0
	OAK(MULTI)	Type 1	34.5 Removed	69	0		15155	OAK(MULTI)	Type 1		emoved	0	0
	CEDAR	Type 2	15 Removed	15	0		15156	OAK(MULTI)	Type 1		emoved	0	0
	ELM	Type 1	9 Removed	9	0		15157		Type 1		emoved	8	0
	OAK(MULTI)	Type 1	20.5 Removed	20.5	0		15158 15159	OAK(MULTI) OAK(MULTI)	Туре 1 Туре 1		emoved emoved	<u> </u>	0
	CEDAR ELM	Type 2 Type 1	12 Removed 9 Preserved	<u>    12</u> 0	4.5		15160	OAK(MULTI)	Type 1		emoved	8	0
13431	CEDAR(MULTI)	Type 2	13.5 Preserved	0	0		15161	OAK(MULTI)	Type 1		eserved	0	0
13432	CEDAR(MULTI)	Type 2	13 Removed	13	0		15162		Type 1		eserved	0	6
	CEDAR(MULTI)	Type 2	12.5 Removed	12.5	0		15163 15164	OAK(MULTI) OAK(MULTI)	Туре 1 Туре 1		eserved emoved	0 9	0
		Type 2	12 Preserved	0	0		15165	ELM	Type 1		emoved	8	0
	OAK(MULTI) OAK(MULTI)	Type 1 Type 1	10.5 Preserved 14.5 Preserved	0	5.25		15166	OAK(MULTI)	Type 1		eserved	0	5.5
	OAK(MULTI)	Type 1	13 Preserved	0	6.5		15167	OAK(MULTI)	Type 1	9.5 P	eserved	0	4.75
	OAK(MULTI)	Type 1	11.5 Preserved	0	5.75							4004	
	OAK(MULTI)	Type 1	12.5 Removed	12.5	0				ΤΟΤΑ	L CALIPER INCHES	<u>REMOVED:</u> TOTAL NUMBER TREE	1301 E CREDITS PROVIE	
		Type 1	9 Removed	9	0							L CREDITS PROVIL	DED: 55
	OAK(MULTI) OAK(MULTI)	Туре 1 Туре 1	10.5 Removed 12.5 Removed	10.5 12.5	0				REO	UIRED CALIPER M	TIGATION: [902]	] CALIPER INCHES	
	OAK(MULTI)	Type 1	12.3 Removed	12.5	0		*Type 4 trees	s require an ISA certified a	rborist, consulting arborist, ar			•	
	OAK(MULTI)	Type 1	9 Removed	9	0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			., <u>.</u>			
	OAK(MULTI)	Type 1	9.5 Removed	9.5	0								
		Type 1	9.5 Removed	9.5	0								
	OAK(MULTI) OAK(MULTI)	Type 1 Type 1	9 Removed 10.5 Removed	9 10.5	0								
	OAK(MULTI)	Type 1	11 Preserved	0	5.5								
	OAK(MULTI)	Type 1	10.5 Preserved	0	5.25								
13452	OAK(MULTI)	Type 1	11.5 Preserved	0	5.75								
		Type 1	10.5 Preserved	0	5.25								
13454	OAK(MULTI)	Type 1	9.5 Preserved	0	4.75								
													<b>SZENERGS</b> POWERED BY SCHNEIDER ENGINEERING TX Reg. #F-1594
											JANUA	ARY 23, 2025	191 Menger Springs Parkway - Boerr 830.249.3887   <u>POWEREDBYSENE</u>
											5 A TE	OF TEHYS	<u>Cívíl Land Grou</u> 206 W. Main Street Suite Round Rock, Texas 78664

LA CIMA SUBSTATION 2701 Ranch Road 12, Unit B San Marcos, Texas 78666

CHECKED G.ULC	DRAWN	B.FRYE
	CHECKED	G.ULCA

APPROVED G.ULCAK



DRAWN

By Chkd. Appd.

EXISTING TREE LIST & MITIGATION TABLE

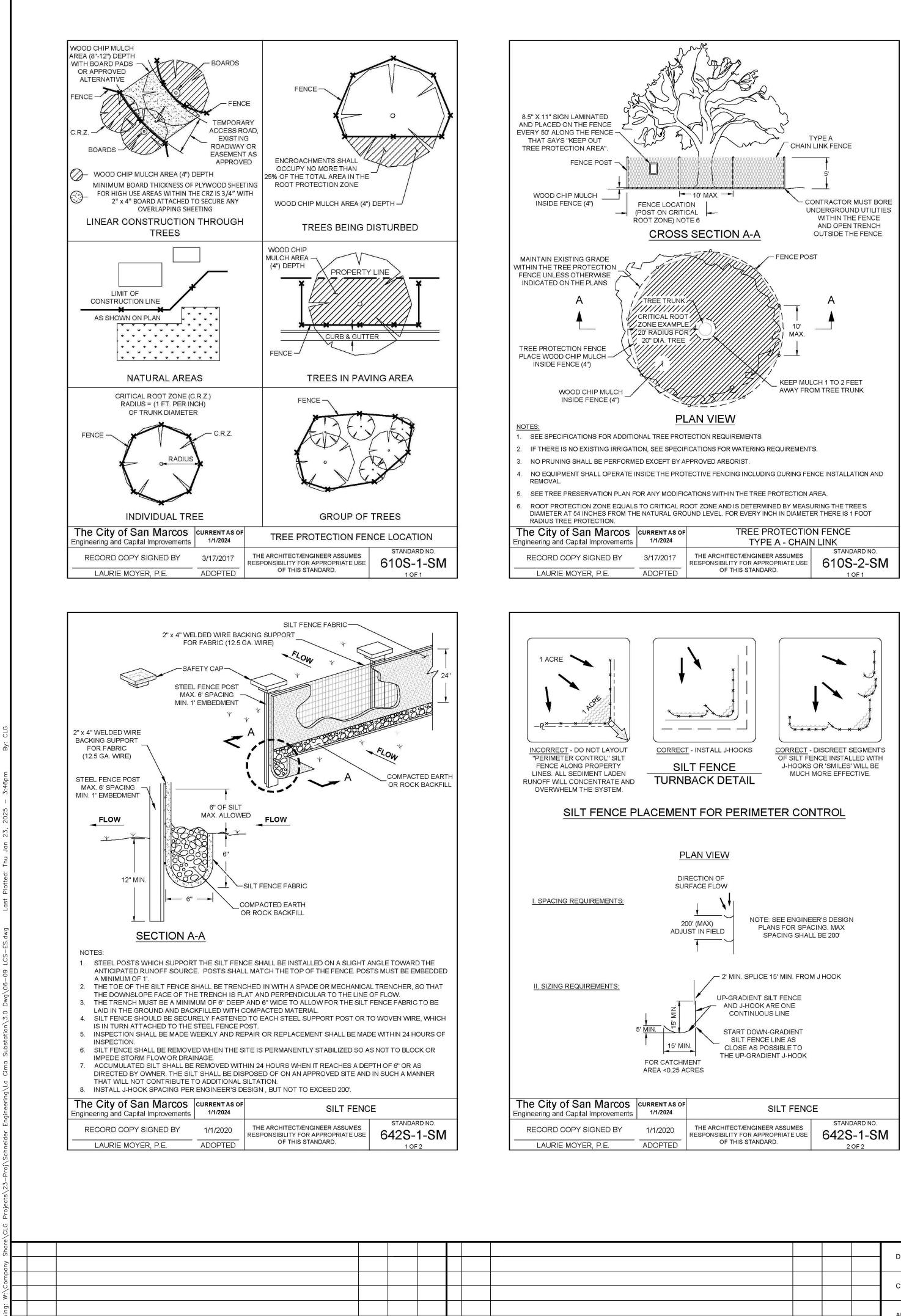
ZAN BIONAL EN

01/02/2025 SCALE

DATE

AS SHOWN

DWG. NO. C-107

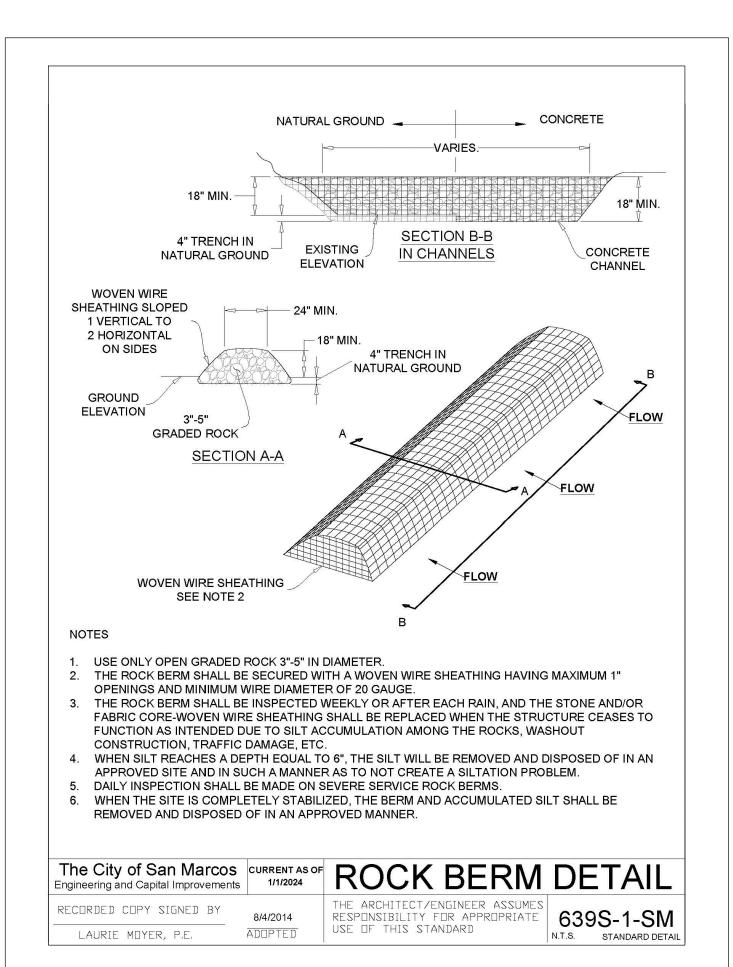


By Chkd. Appd. Ltr. Date

Date

Revision

RENT AS OF	TREE PROTECTIO	N FENCE					
1/1/2024	TYPE A - CHAIN LINK						
17/2017	THE ARCHITECT/ENGINEER ASSUMES	STANDARD NO.					
	RESPONSIBILITY FOR APPROPRIATE USE	610S-2-SM					
OPTED	OF THIS STANDARD.	1 OF 1					



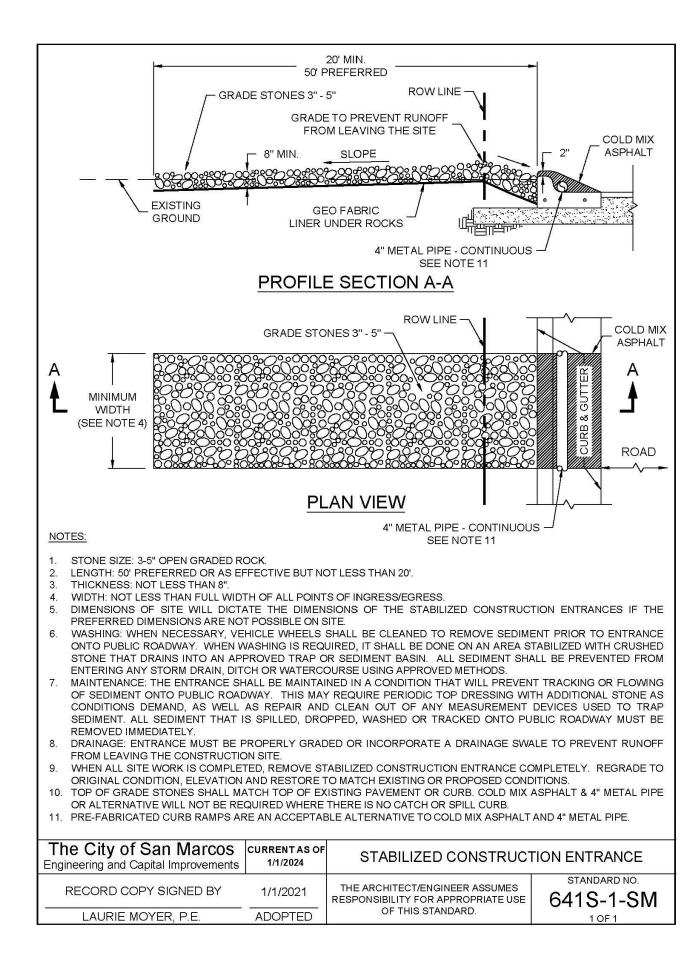
			DRAWN	B.FRYE	
			CHECKED	G.ULCAK	
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			APPROVED		
By	Chkd.	Appd.	AFFROVED	G.ULCAK	

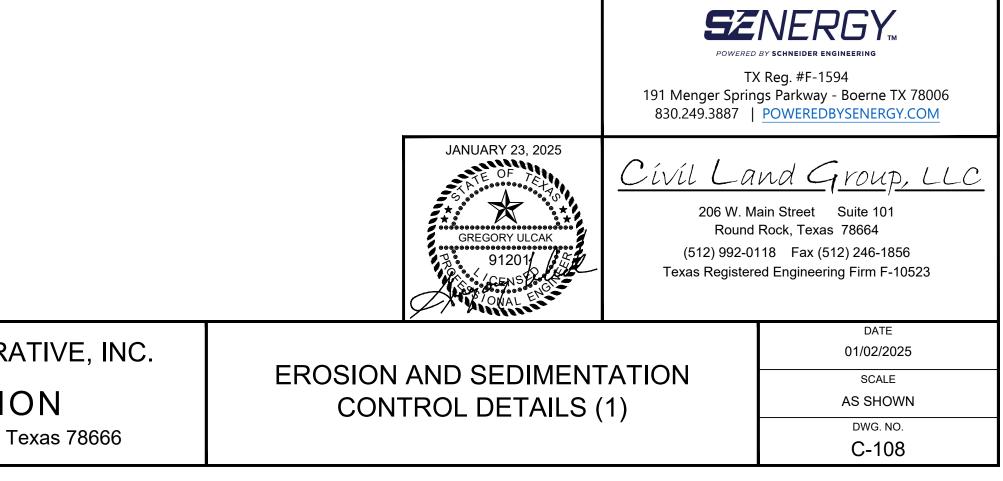
Revision

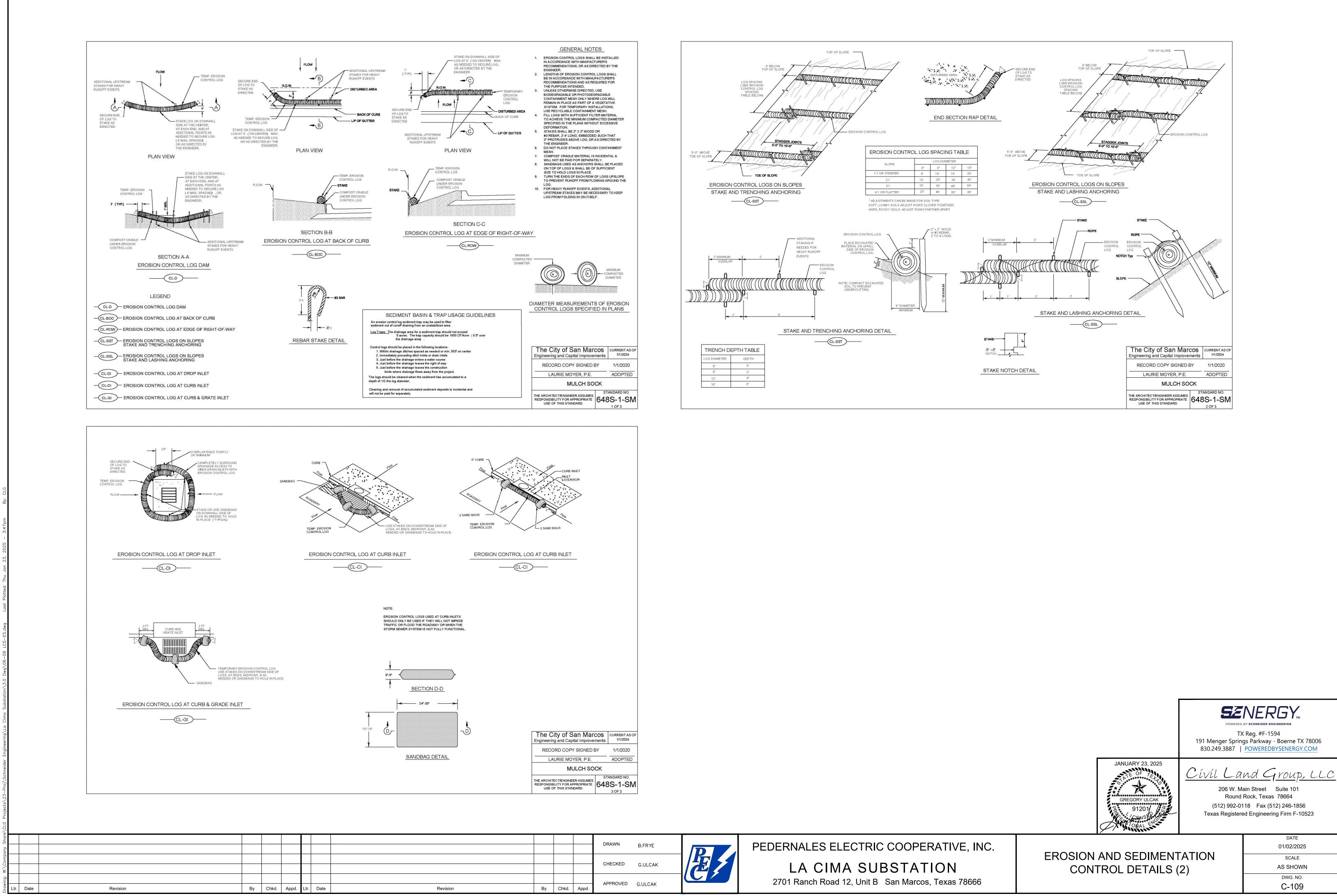


PEDERNALES ELECTRIC COOPERATIVE, INC.

LA CIMA SUBSTATION 2701 Ranch Road 12, Unit B San Marcos, Texas 78666

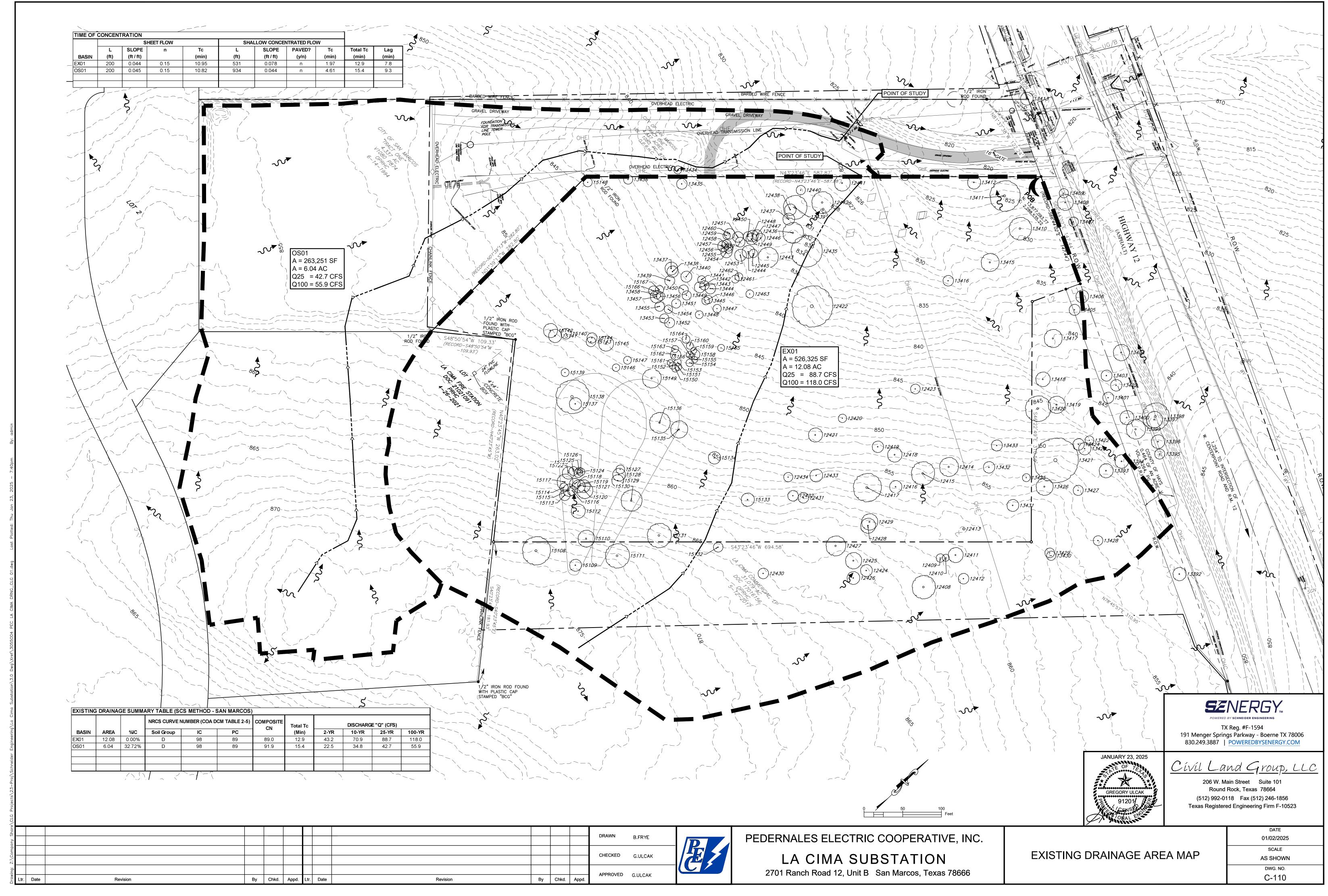




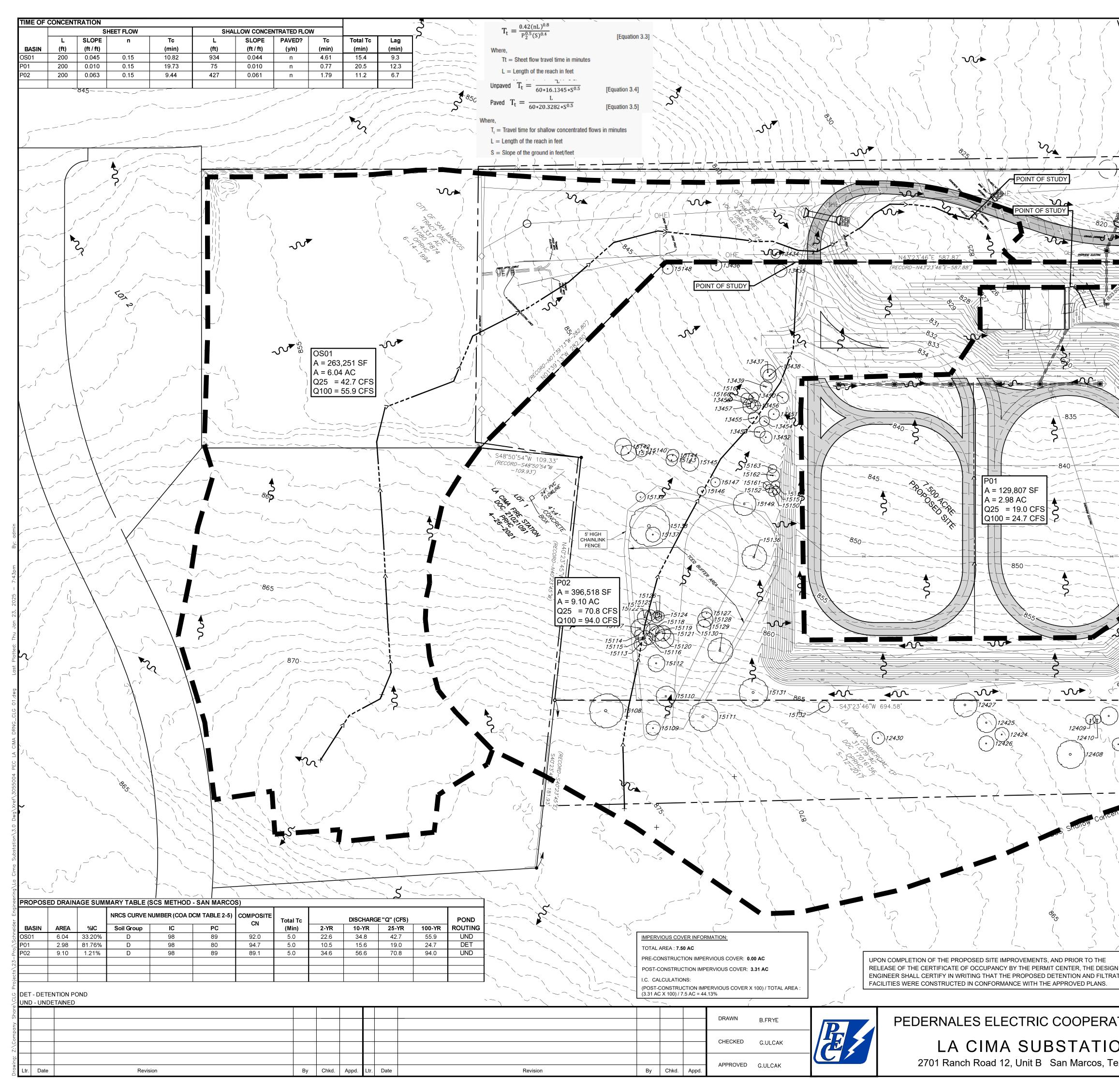


SCALE

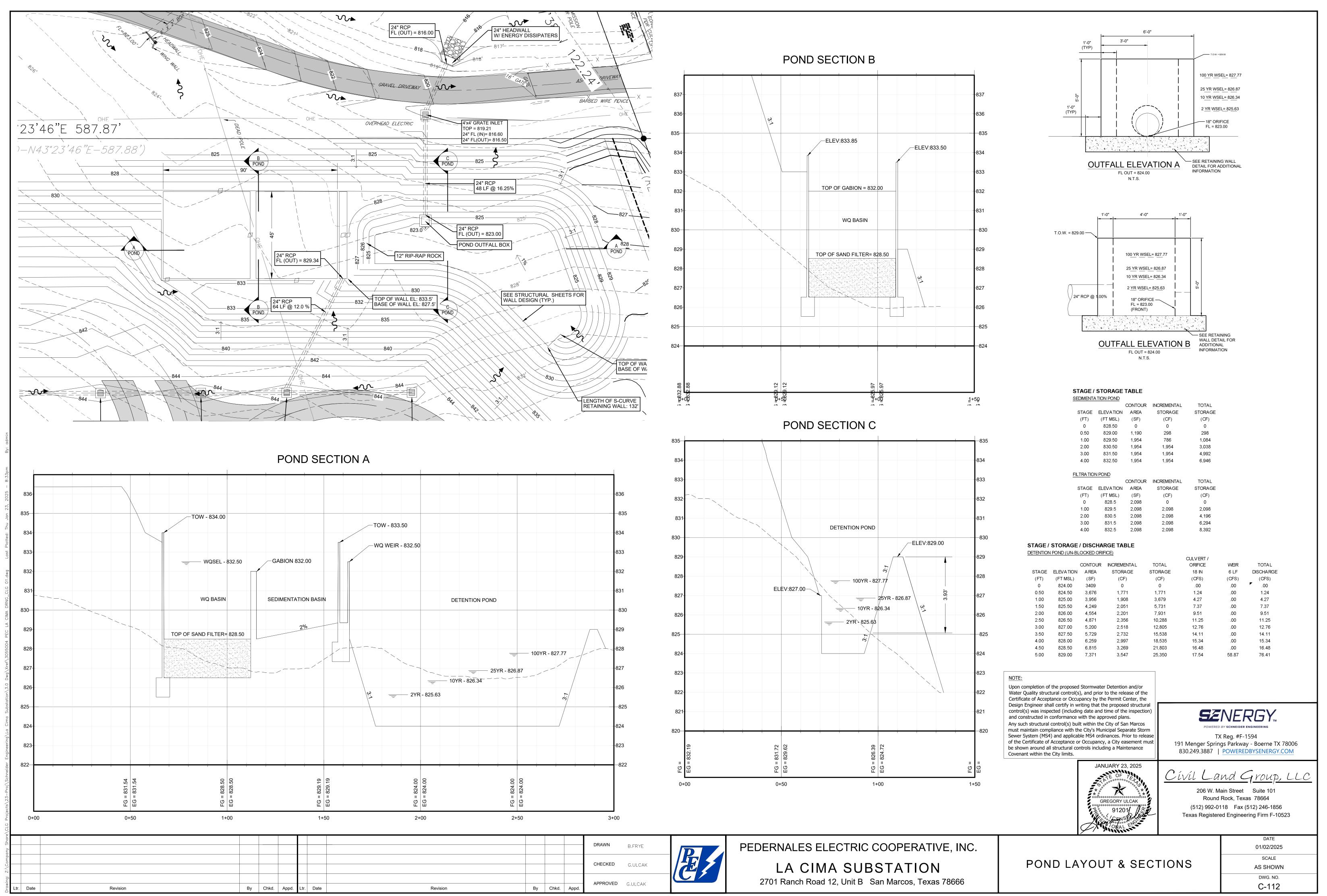
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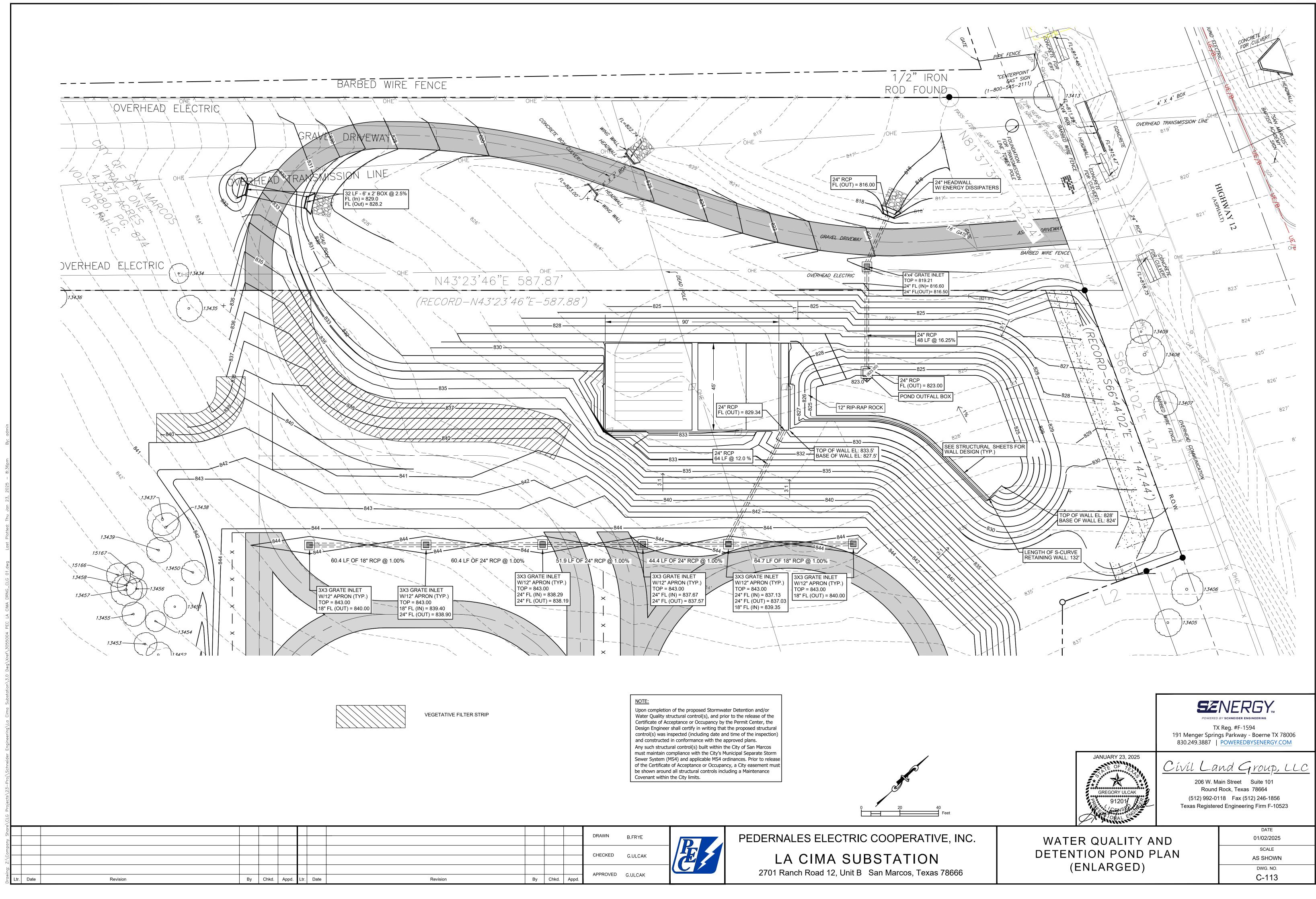


				DRAWN		
				DIVAWIN	B.FRYE	
				CHECKED		
				CHECKED	G.ULCAK	
				APPROVED		
Revision	Ву	Chkd.	Appd.	AFFROVED	G.ULCAK	



5 <u>5</u> <u>8</u>	21/1/1			Existing	RUNOFF S Proposed Flow	UMMARY Detention	Proposed Flow	
		Point of Analysis	Storm Event	Flow (cfs)	without Detention (cfs)	Storage (cf)	with Detention (cfs)	Net Change (cfs) (Proposed - Existing)
J A A A A A A A A A A A A A A A A A A A		EX01	002-YR	43.20	45.10	3,402	42.80	-0.4
	HIGHWAY HIGHWAY	EX01 EX01	010-YR 025-YR	70.90 88.70	72.20 89.80	6,535 8,998	67.60 83.50	-3.3 -5.2
	(ASPHALT)	EX01	100-YR	118.00	118.70	13,802	109.20	-8.8
		OS01 OS01	002-YR 010-YR	22.50 34.80	22.60 34.80	N/A N/A	22.50 34.80	0.00
	The set with B the set	OS01 OS01	025-YR 100-YR	42.70	42.70	N/A	42.70 55.90	0.00
and a second	TEOMERSON UN INTERNET	P01	002-YR	55.90	56.00 10.50	N/A 3,402	55.90 8.20	0.00
		P01 P01	010-YR 025-YR		15.60 19.00	6,535 8,998	11.00 12.70	
	3425	P01	100-YR		24.70	13,802	15.20	
	6' X 6 U	P02 P02	002-YR 010-YR		34.60 56.60	N/A N/A	34.60 56.60	
	Recommendation of the second s	P02	025-YR		70.80	N/A	70.80	
		P02	100-YR		94.00	N/A	94.00	
				POLICIAN AND AND AND AND AND AND AND AND AND A				<u> </u>
	The second		ASPHALT DRIVEMAY -					· · · · · · · · · · · · · · · · · · ·
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St.		~~~	>	) (			ngs Parkway - Boe POWEREDBYSE	
			JANUAI	/ RY 23, 2025	,			
	50 100 L		TE	OF TELL	Cív	íl La	ind Gri	DUP, LLC
	Feet							e 101
IGN			GREG	ORY ULCAK		Round	Rock, Texas 786	64
RATION					Те		118 Fax (512) 2 ed Engineering Fi	
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		/						DATE
ATIVE, INC.								/02/2025
ON	PROPC	SED	DRAIN	NAGE	AREA MA	١P		SCALE SHOWN
ON Texas 78666							D	WG. NO.
1 GAQS 1 0000							0	C-111





				DRAWN	B.FRYE	
				CHECKED	G.ULCAK	E
Revision	Ву	Chkd.	Appd.	APPROVED	G.ULCAK	

CEQ WATER POLLUTION A	BATEMENT PLAN GENERAL
CONSTRUCTION NOTES:	

- 1. 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
- Sediment must be removed from the sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.
- 8. Litter, construction debris, and construction chemicals exposed tO stormwater shall be prevented from being discharged offsite.
- 9. 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.
- 10. 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.
- 11. 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. 12. 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:
- A. 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;
- B. 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;
- C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office	San Antonio Regional Office
12100 Park 35 Circle, Building A	14250 Judson Road
Austin, Texas 78753-1808	San Antonio, Texas 78233-4480
Phone (512) 339-2929	Phone (210) 490-3096
Fax (512) 339-3795	Fax (210) 545-4329

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rexas Cor	nmission on Environmental Quality		_	
TSS Bomou	al Calculations 04-20-2009		_	
133 Kelliov	al Calculations 04-20-2005			
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	nformation is provided for cells with a red triang			
	n blue indicate location of instructions in the Technica	al Guidance I	vianuai - Ru	<u>3</u> -34
	shown in red are data entry fields.			
Characters	shown in black (Bold) are calculated fields. Cha	anges to the	se fields v	will r
1. The Require	ed Load Reduction for the total project:	Calculations fr	om RG-348	
			_	
	Page 3-29 Equation 3.3: $L_{M}$ =	27.2(A <sub>N</sub> x P)		
where:	L <sub>M</sub> total project =	Required TSS	removal resu	Iting
	A <sub>N</sub> =	Net increase i	n impervious	area
	P =	Average annua	al precipitatio	n, inc
Site Data:	Determine Required Load Removal Based on the Entire Project			
	County =			
	Total project area included in plan * = Predevelopment impervious area within the limits of the plan * =		acres	
	ost-development impervious area within the limits of the plan =	0.00	acres acres	
Total po	Total post-development impervious cover fraction * =		40103	
	P =	33	inches	
	L <sub>M TOTAL PROJECT</sub> =	2190	lbs.	
* The values	entered in these fields should be for the total project area			
The values (	shared in dress helds should be for the total project area		_	
Nu	mber of drainage basins / outfalls areas leaving the plan area =	4		
INUI	Tiber of drainage basins / outlaits areas leaving the plan area –	1		
2. Drainage Ba	asin Parameters (This information should be provided for	each basin):		
	Drainage Basin/Outfall Area No. =	1		
	Diamage Dasin/Oudan Area No	•		

	Total drainage basin/outfall area =	2.98	acres
Prede	velopment impervious area within drainage basin/outfall area =	0.00	acres
Post-de	velopment impervious area within drainage basin/outfall area =	2.44	acres
Post-devel	opment impervious fraction within drainage basin/outfall area =	0.82	
	L <sub>M THIS BASIN</sub> =	2190	lbs.
3. Indicate the	proposed BMP Code for this basin.		

Proposed BMP =		
Removal efficiency =	89	percent

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

	RG-348 Page 3-33 Equation 3.7: L	- <mark>R</mark> =	(BMP efficiency	/) x P x (A <sub>l</sub>
where:	A	۹ <mark>c =</mark>	Total On-Site d	rainage area
	<u>ر</u>	A <sub>I</sub> =	Impervious area	a proposed i
	A	۹ <sub>P</sub> =	Pervious area r	emaining <mark>i</mark> n
	L	- <sub>R</sub> =	TSS Load remo	oved from th
	A	<b>\</b> <sub>C</sub> =	2.98	acres
		A <sub>1</sub> =	2.44	acres
	A	۹ <sub>P</sub> =	0.54	acres
	L	-R =	2488	lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L <sub>M THIS BASIN</sub> =	2488	lbs.	
F =	1.00		

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

Rainfall Depth =	4.00	inches
Post Development Runoff Coefficient =	0.65	
On-site Water Quality Volume =	28149	cubic feet
	Calculations from	om RG-348
Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	4
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	5630	

Total Capture Volume (required water quality volume(s) x 1.20) = 33779 cubic feet

By Chkd. Appd. Ltr. Date . Date Revision Revisior

Project Name:	PEC LA CIMA
Date Prepared:	10/2/2024

### er. Place the cursor over the cell.

### remove the equations used in the spreadsheet STAGE / STORAGE TABLE

ds v	vill remove the e	quations u	sed in t	he spreadsheet.	STAGE /	STORAGE	TABLE				
u3 v		quations u	Seu in t	ne spreadsheet.	<u>SEDIMENTA</u>	TION POND					
348		Pages 3-27 to	0.3-30				CONTOUR	INCREMENTAL	TOTAL		
040		1 ages 0-27 to	0.0-00		STAGE	ELEVATION	AREA	STORAGE	STORAGE		
					(FT)	(FT MSL)	(SF)	(CF)	(CF)		
					0	828.50	0	0	0		
					0.50	829.00	1,190	298	298		
resu	Iting from the propose	d developmen	t = 80% c	of increased load	1.00	829.50	1,954	786	1,084		
ious a	area for the project				2.00	830.50	1,954	1,954	3,038		
tatio	n, <mark>inches</mark>				3.00	831.50	1,954	1,954	4,992		
					4.00	832.50	1,954	1,954	6,946		
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					FILTRATION						
						TFOID	CONTOUR	INCREMENTAL	TOTAL		
					STAGE		AREA	STORAGE	STORAGE		
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					0	828.5	2,098	0	0		
					1.00	829.5	2,098	2,098	2,098		
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					3.00	831.5	2,098	2,098	6,294		
					4.00	832.5	2,098	2,098	8,392		
					STAGE /	STORAGE	/ DISCHAI	RGE TABLE			
					DETENTION	I POND (UN-BL	OCKED ORIF	FICE)			
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							CONTOUR	INCREMENTAL	TOTAL	ORIFICE	WEIR
					STAGE	ELEVATION	AREA	STORAGE	STORAGE	18 IN	6 LF
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					0.50	824.50	3,676	1,771	1,771	1.24	.00
					1.00	825.00	3,956	1,908	3,679	4.27	.00
					1.50	825.50	4,249	2,051	5,731	7.37	.00
					2.00	826.00	4,554	2,201	7,931	9.51	.00
					2.50	826.50	4,871	2,356	10,288	11.25	.00
					3.00	827.00	5,200	2,518	12,805	12.76	.00
					3.50	827.50	5,729	2,732	15,538	14.11	.00
					4.00	828.00	6,259	2,997	18,535	15.34	.00
ť					4.50	828.50	6,815	3,269	21,803	16.48	.00
		Aqualogic Ca	rtridge Fil	lter	5.00	829.00	7,371	3,547	25,350	17.54	58.87
		Bioretention									
		Contech Stor	mFilter								
		Constructed									
		Extended De	tention								
		Grassy Swale	e								
		Retention / In	rigation								
		Sand Filter									
		Stormceptor									
		Vegetated Fil	Iter Strips								
		Vortechs									
		Wet Basin									
101210		Wet Vault									
Туре	<u>e.</u>										
(A <sub>1</sub> )	( 34.6 + A <sub>P</sub> x 0.54)										
area	in the BMP catchme	nt area									
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<u>.</u>	Calculations from RG	6-348	Pages 3	-34 to 3-36							
eet											
348	Pages 3-36 to 3-37										

Revision	Ву	Chkd.	Appd.	

APPROVED G.ULCAK



PEDERNALES ELECTRIC COOPERATIVE, INC.

TOTAL

**DISCHA RGE** 

(CFS)

.00

1.24

4.27

7 37

9 51

11.25

12.76

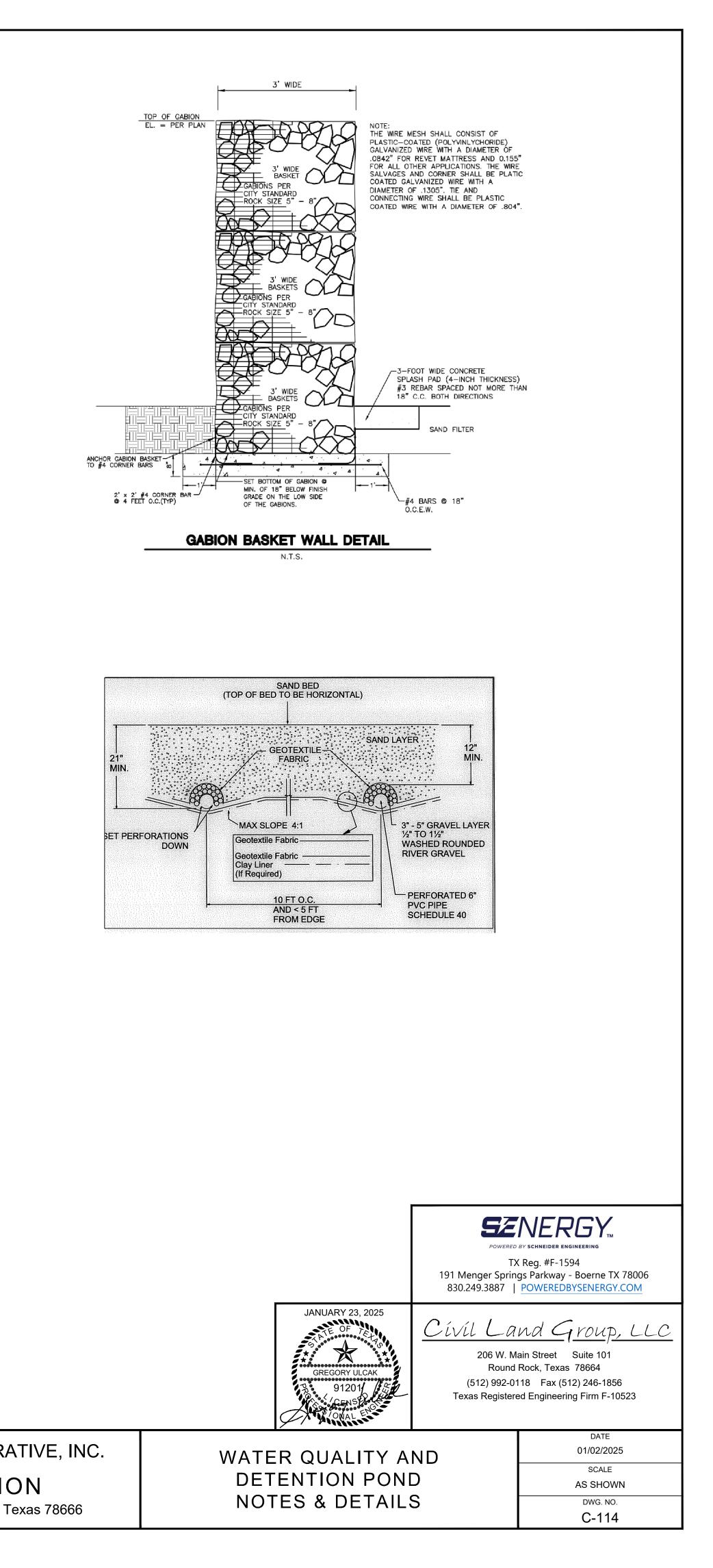
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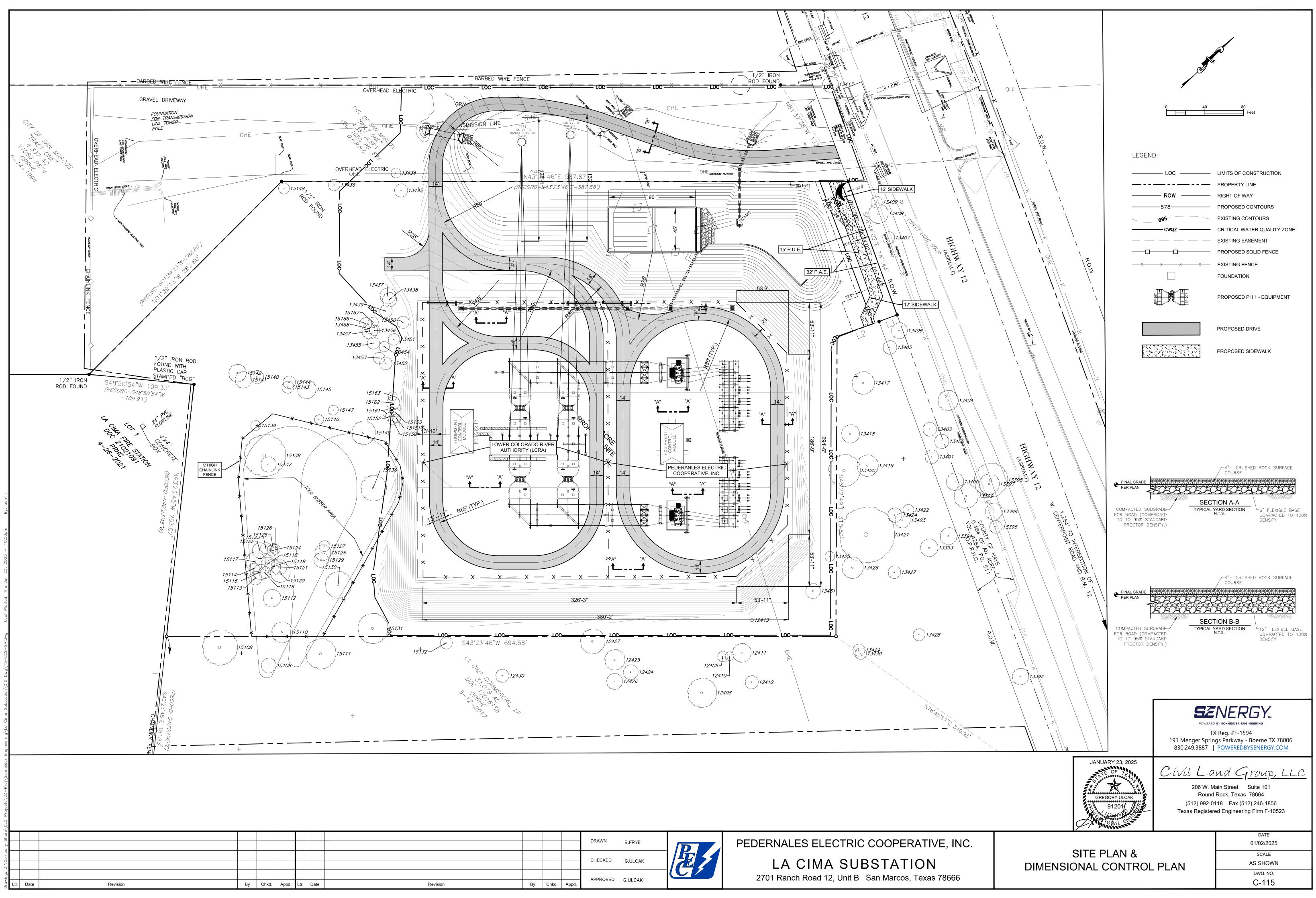
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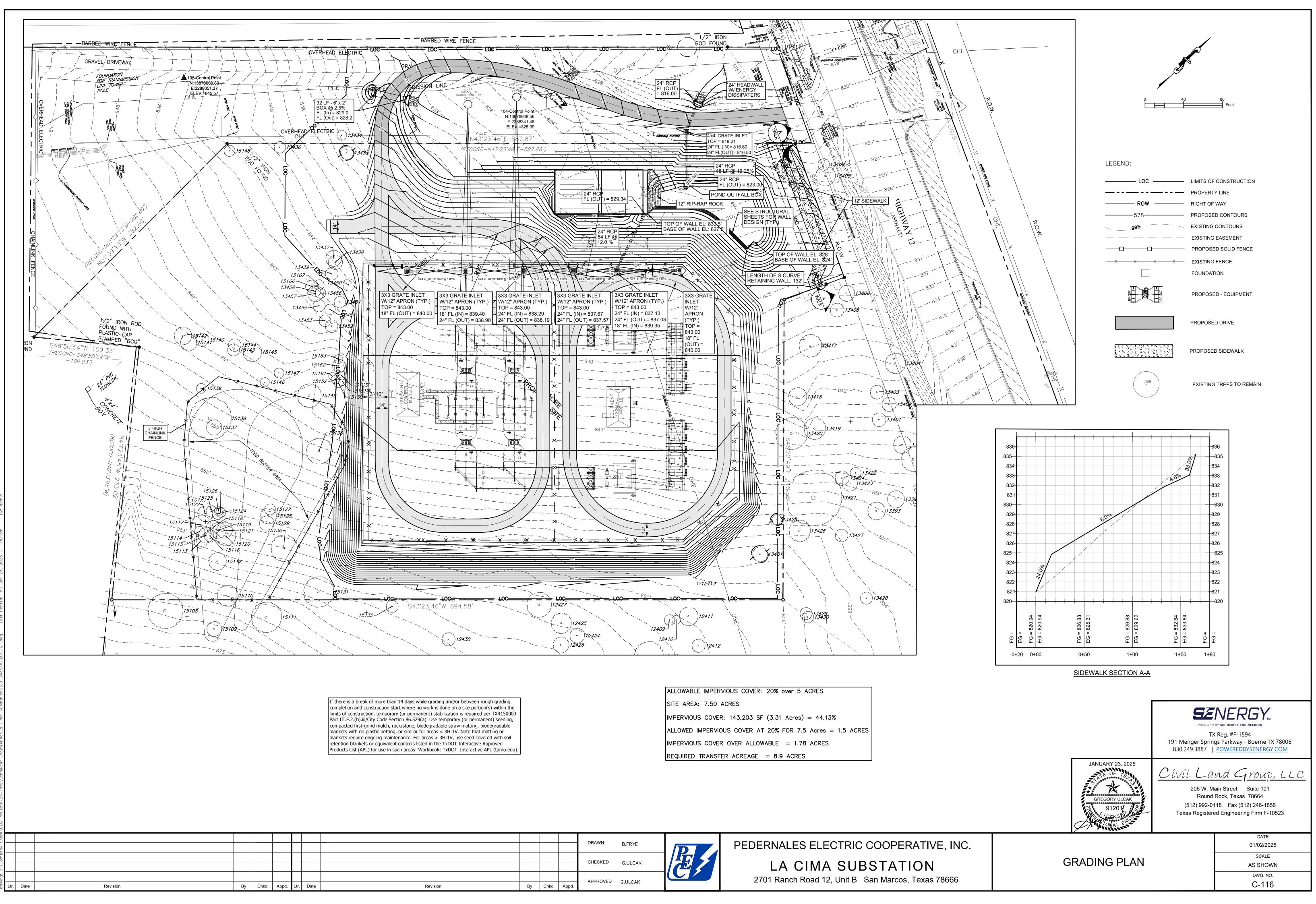
76.41

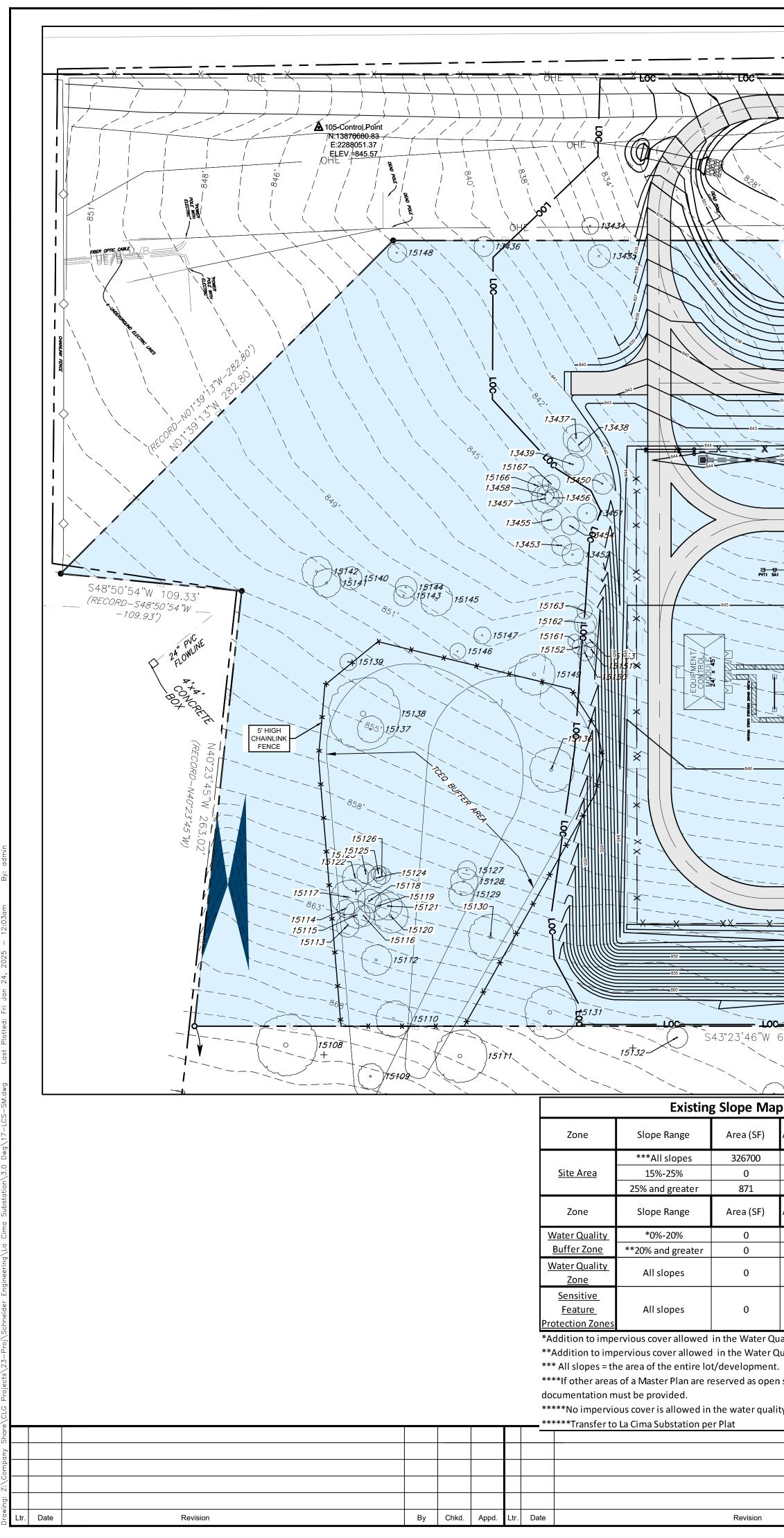
LA CIMA SUBSTATION 2701 Ranch Road 12, Unit B San Marcos, Texas 78666





				DRAWN		
				DRAWN	B.FRYE	
				CHECKED		
				CHECKED	G.ULCAK	
				APPROVED		
Revision	Ву	Chkd.	Appd.	AFFROVED	G.ULCAK	





						T.	PRE-TENCE	
								X STORY
			1. LOU	оне <sup>819'</sup>			THE BE	TRANSSION TINE
			Son H	- 828		No. 51 0		
	1778 138 kV TO RANCH ROAD 12 (S208)		8. A	182×		817'		
		<ul> <li>30 104-Cor trol Point →</li> <li>N:13876948.56</li> </ul>					X - D+ + + R	- 821 +
		E:2288341.48 ELEV.=825.09	88.		OHE OVERHEAD ELECTRIC		BURDED WIRE FENCE	HE
	· ━╲ ╫╴━━━	23'46" <u>E</u> _587.87' - <i>N43°23'46"E-587.8</i>	38')					
		828						140910
						825 <u></u>		<b>13468</b> 
838	835							f
	840			833	/ 830	828'		HIGHWAY COLUMN AND COL
	841	942						
843				842	840			×0
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`				TA				0 13406
			×			× IIIII	835'	
	22' IUS IN						831'	
Ø     PVT1								
15			× -8	40'			5	
· ·							.840	
0								- 842'
			+	- 847'				+
846		PARTICIPACION PRATICIPACION PR	×					
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							3425	0 13393
			<b>*</b>					(·)13427 850.
		× × ×	<u>*</u> ***			///	0 13431	
			850			×+		
· · · · ·			860		0124	73-+		
23'46"W			b 12427					
	<b>`</b> .	Ly	. 12425		• 1241			
<u>``</u>	12420			2424	12409-J			
		the Edwards Ac	uifer Recharge	e Zone (EARZ) Imperivous cover	Impervious Cover		ALLOWABLE IMPERVIOUS CO	VER: 20% over 5 ACRES
Area (SF) 326700	Area (Acres) 7.50	percentage allowed			Proposed Condition (SF) *****144203		SITE AREA: 7.50 ACRES	3 SE (3 31 A)
0 871	0.00	<u>20%</u> 20%	0	0			IMPERVIOUS COVER: 144,20 ALLOWED IMPERVIOUS COVE	
Area (SF)	Area (Acres)	Impervious cover	Impervious cover	Imperivous cover	U Impervious Cover Proposed Condition (SE)		IMPERVIOUS COVER OVER A	
0	0.00	percentage allowed <u>10%</u>	allowed (SF) 0	existing condition (SF)	Proposed Condition (SF)	1	REQUIRED TRANSFER ACREA	AGE = 8.9 ACRES

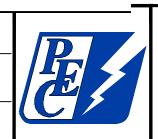
	Area (Acres)	Impervious cover	Impervious cover	Imperivous cover	Impervious Cover			
Area (SF)	Alea (Acles)	percentage allowed	allowed (SF)	Existing Condition (SF)	Proposed Condition			
0	0.00	<u>10%</u>	0					
0	0.00	<u>0%</u>	0					
0	0.00	<u>0%</u>	0					
0	0.00	<u>0%</u>	0					
ne Water Quality Buffer Zone requires an approve mitigation plan and cannot exceed 20 %.								

\*\*Addition to impervious cover allowed in the Water Quality Buffer Zone requires an approve mitigation plan and cannot exceed 10 %.

\*\*\*\*If other areas of a Master Plan are reserved as open space to allowed more impervious cover than the maximum per code for the site, supporting

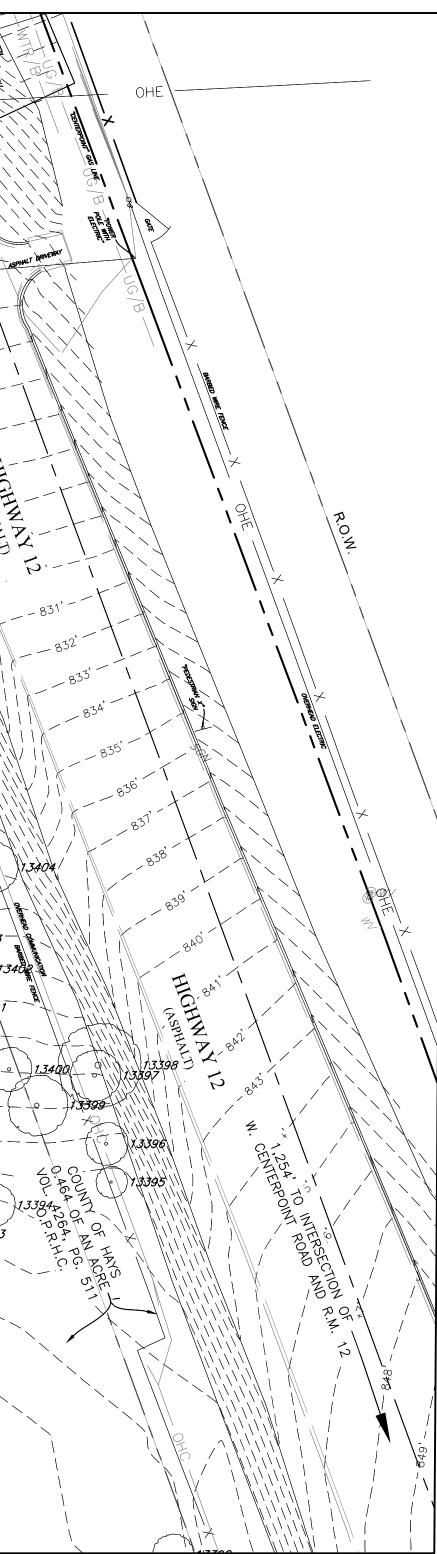
\*\*\*\*\*No impervious cover is allowed in the water quality zone or sensitive feature protection zones.

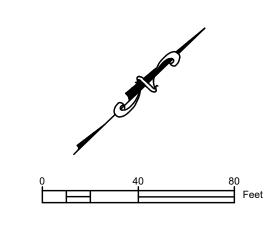
DRAWN **B.FRYE** CHECKED G.ULCAK APPROVED G.ULCAK By Chkd. Appd.



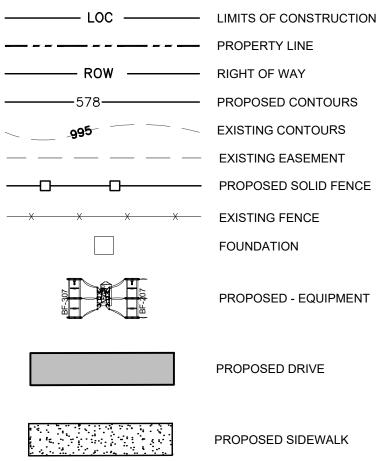
PEDERNALES ELECTRIC COOPERATIVE, INC.

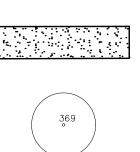
LA CIMA SUBSTATION 2701 Ranch Road 12, Unit B San Marcos, Texas 78666





### LEGEND:





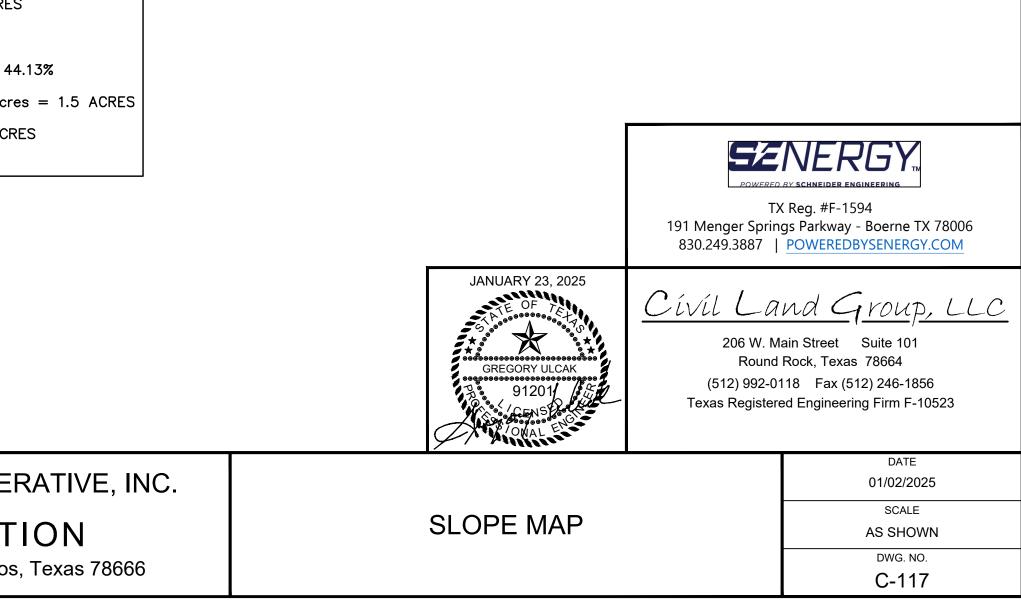
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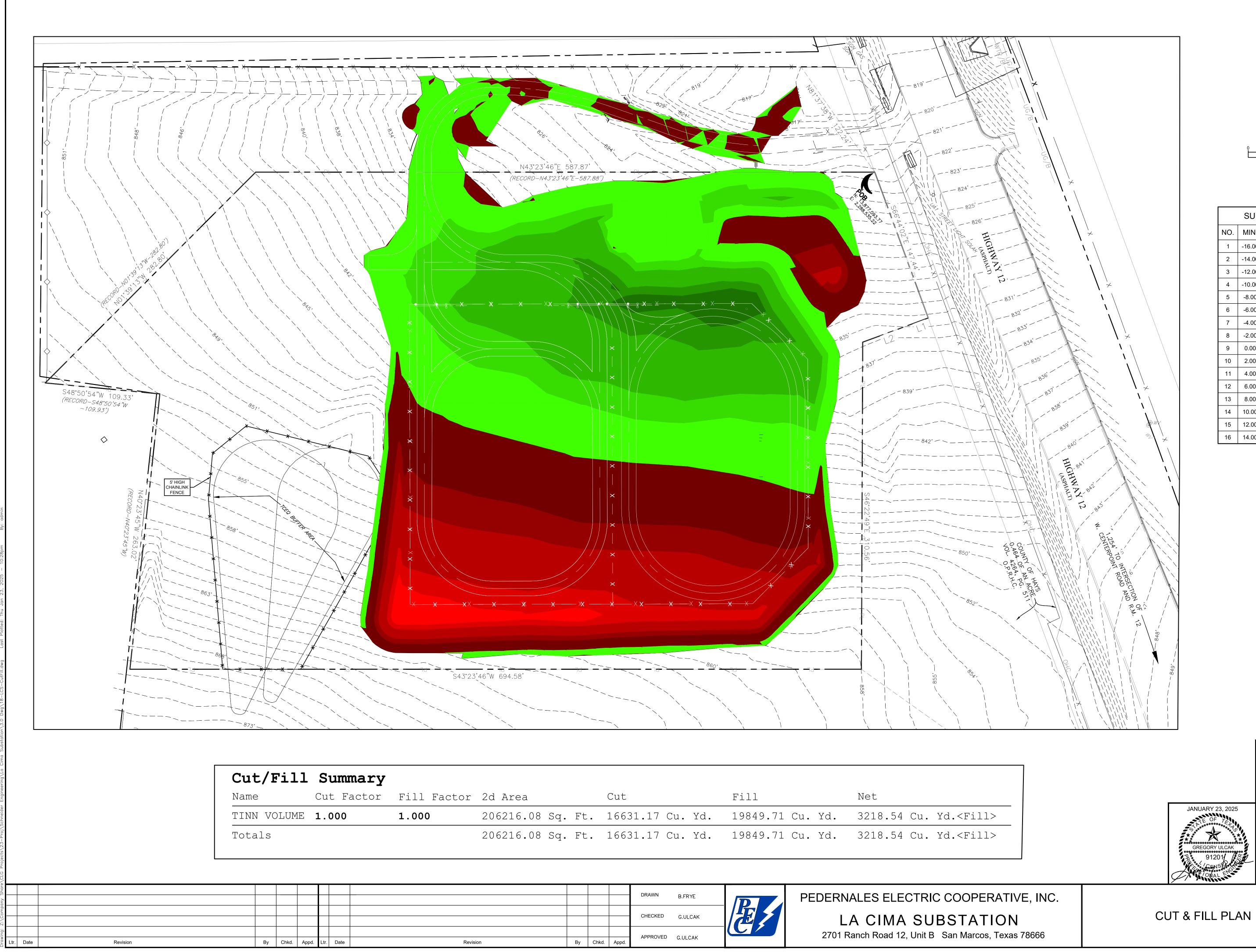
PROPOSED DRIVE

PROPOSED SIDEWALK

EXISTING TREES TO REMAIN

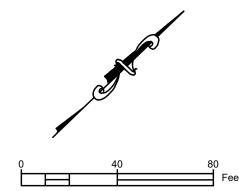
Slopes Table									
Number	Minimum Slope	Maximum Slope	Area (Ac)	Color					
1	0.00%	15.00%	7.47						
2	15.00%	25.00%	0.00						
3	25.00%	100.00%	0.02						





or	2d Area	Cut	Fill	Net
	206216.08 Sq. Ft.	16631.17 Cu. Yd.	19849.71 Cu. Yd.	3218.54 Cu. Yd. <fill></fill>
	206216.08 Sq. Ft.	16631.17 Cu. Yd.	19849.71 Cu. Yd.	3218.54 Cu. Yd. <fill></fill>

				DRAWN	B.FRYE		PEDERNALES ELE			
				CHECKED	G.ULCAK	E >	LA CIMA			
				APPROVED	G.ULCAK		2701 Ranch Road 12			
Revision	Ву	Chkd.	Appd.							



	SURFACE ELEVATIONS									
NO.	MIN.	MAX.	COLOR	AREA (SF)						
1	-16.00	-14.00		568.64						
2	-14.00	-12.00		2705.10						
3	-12.00	-10.00		7476.13						
4	-10.00	-8.00		10098.82						
5	-8.00	-6.00		12271.26						
6	-6.00	-4.00		15116.91						
7	-4.00	-2.00		18234.99						
8	-2.00	0.00		24550.54						
9	0.00	2.00		32294.38						
10	2.00	4.00		24269.11						
11	4.00	6.00		20945.02						
12	6.00	8.00		14734.65						
13	8.00	10.00		12706.22						
14	10.00	12.00		7291.60						
15	12.00	14.00		2895.57						
16	14.00	16.00		57.14						

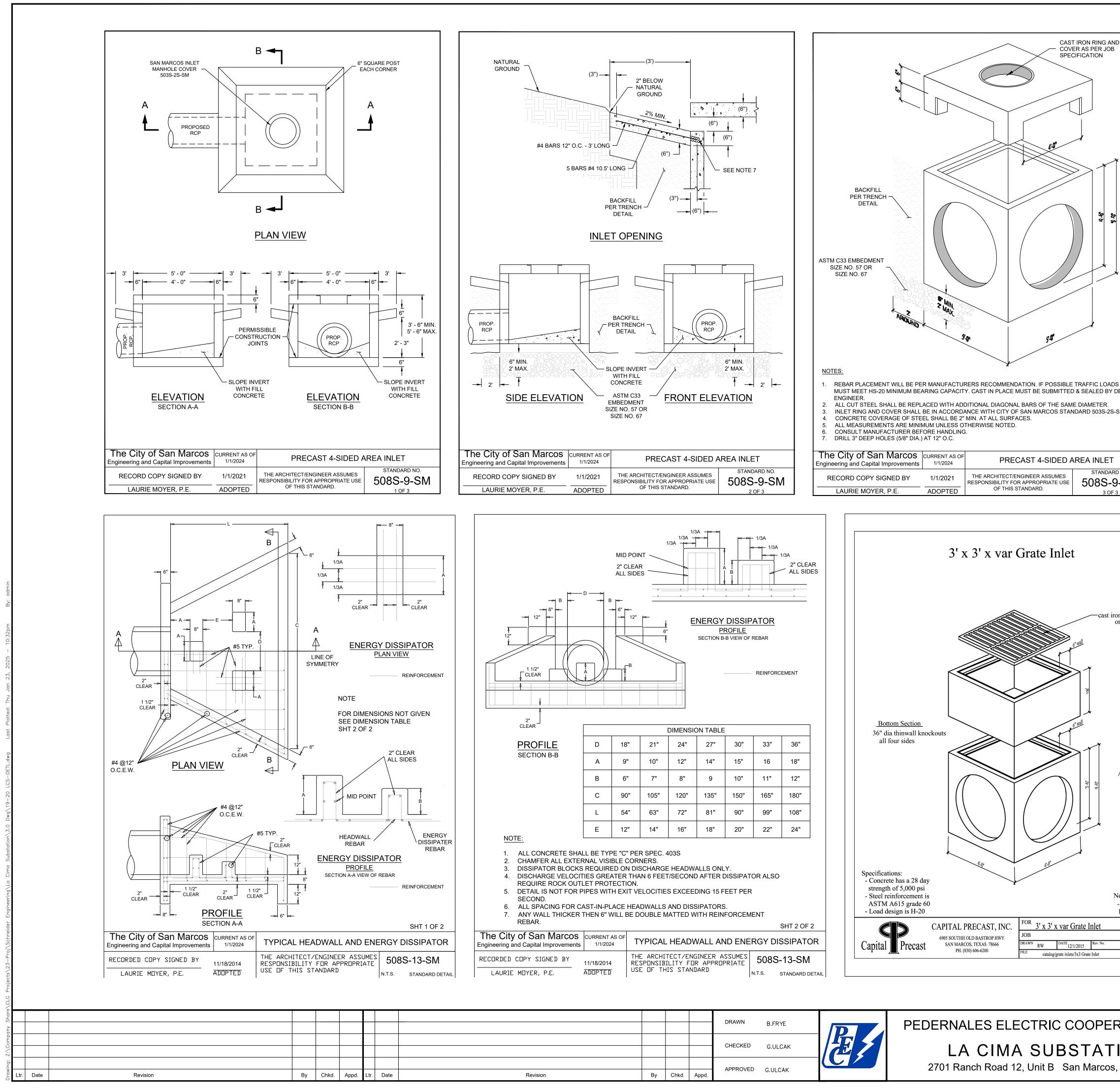
TX Reg. #F-1594 191 Menger Springs Parkway - Boerne TX 78006 830.249.3887 | <u>POWEREDBYSENERGY.COM</u>

Civil Land Group, LLC 206 W. Main Street Suite 101 Round Rock, Texas 78664 (512) 992-0118 Fax (512) 246-1856 Texas Registered Engineering Firm F-10523

01/02/2025 SCALE

DATE

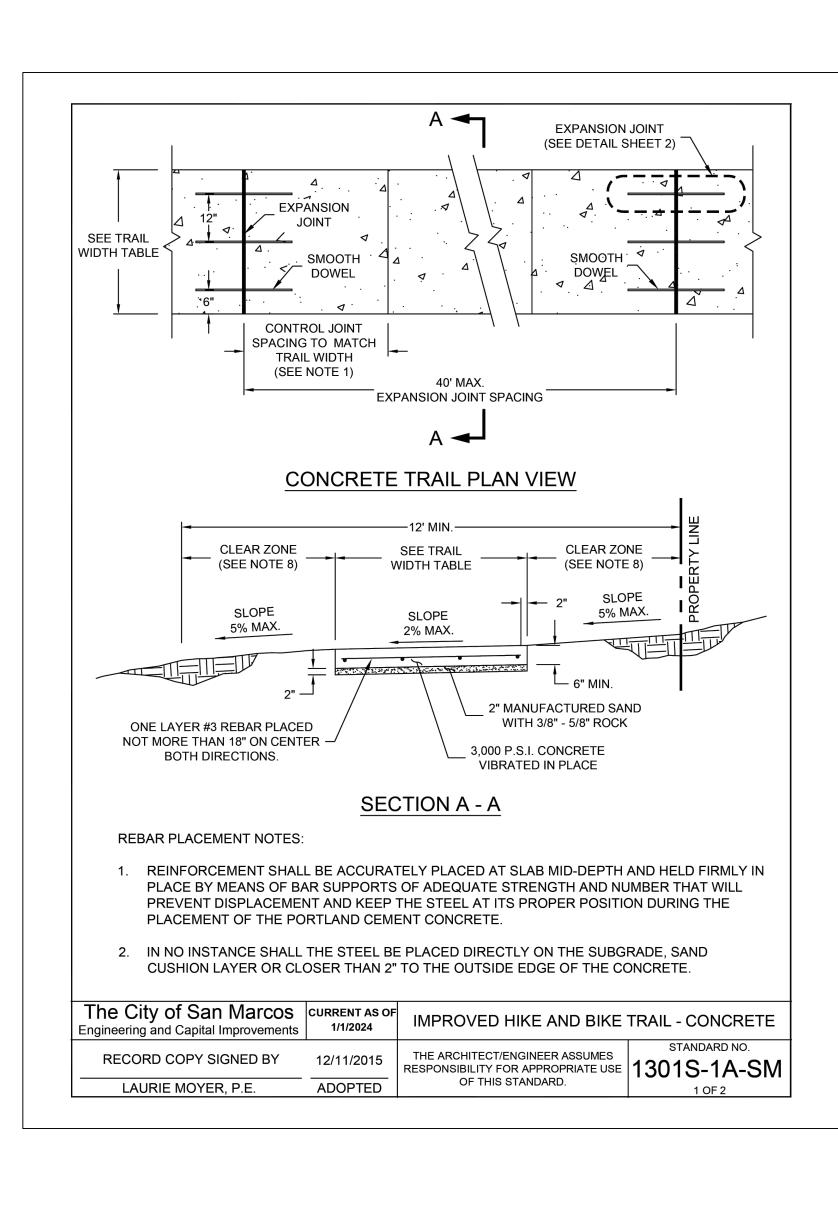
AS SHOWN DWG. NO. C-118



DAR.				SHT 2 OF 2
San Marcos		TYPICAL HEADWALL AND ENE	RGY D	SSIPATOR
PY SIGNED BY	11/18/2014	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE	508S	-13-SM
YER, P.E.	ADOPTED	USE OF THIS STANDARD	N.T.S.	STANDARD DETAIL

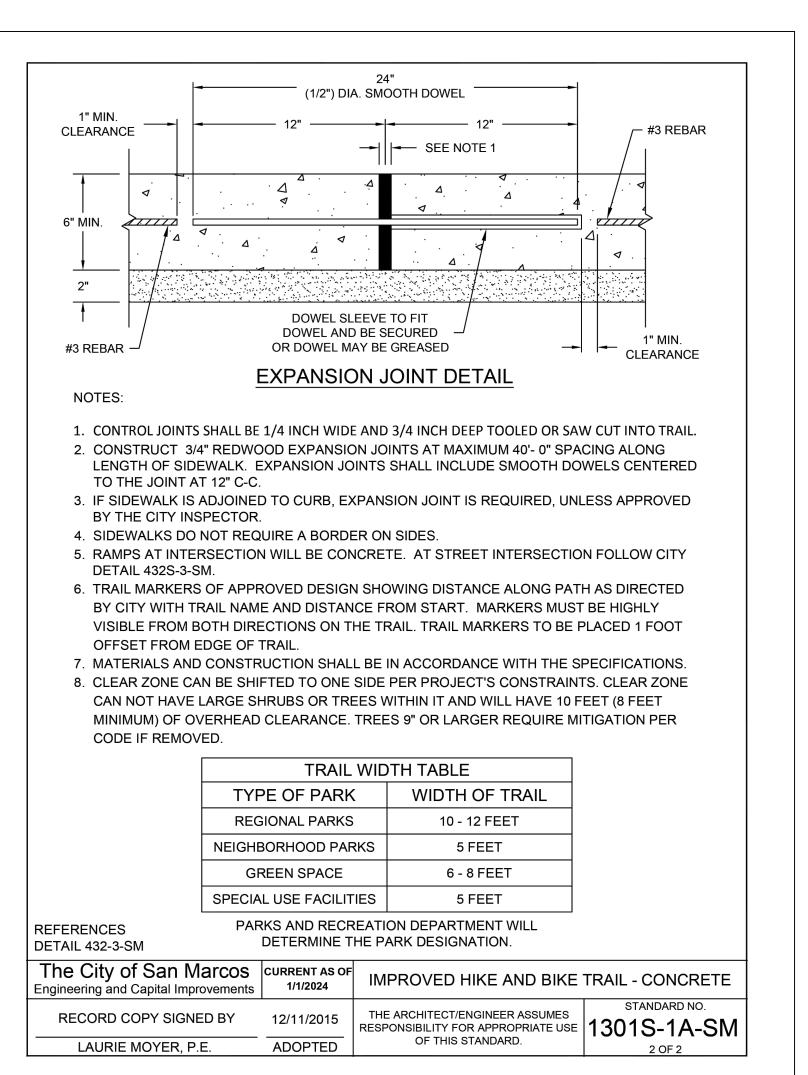
The City of San Marcos Engineering and Capital Improvements		PRECAST 4-SIDED A	AREA INLET
RECORD COPY SIGNED BY	1/1/2021	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE	standari 508S-9
LAURIE MOYER, P.E.	ADOPTED	OF THIS STANDARD.	3 OF 3

ND 3		
*		
2		
G.		
*		
DS DESIGN		
DESIGN		
S-SM.		
RD NO. 9-SM		
3		
ron frame and grate or as required		
Approximate weight of base: 4,100 lbs		
		NERGY
Notes: - Consult manufacturer	T> 191 Menger Sprin	BY SCHNEIDER ENGINEERING K Reg. #F-1594 gs Parkway - Boerne TX 78006
before handling	JANUARY 23, 2025	POWEREDBYSENERGY.COM
	206 W. M	ain Street Suite 101
	GREGORY ULCAK Round	Rock, Texas 78664 118 Fax (512) 246-1856 ed Engineering Firm F-10523
	OWAL EN	DATE
RATIVE, INC.		01/02/2025 SCALE
<b>ION</b> s, Texas 78666	STANDARD DETAILS (1)	AS SHOWN DWG. NO.
.,		C-119





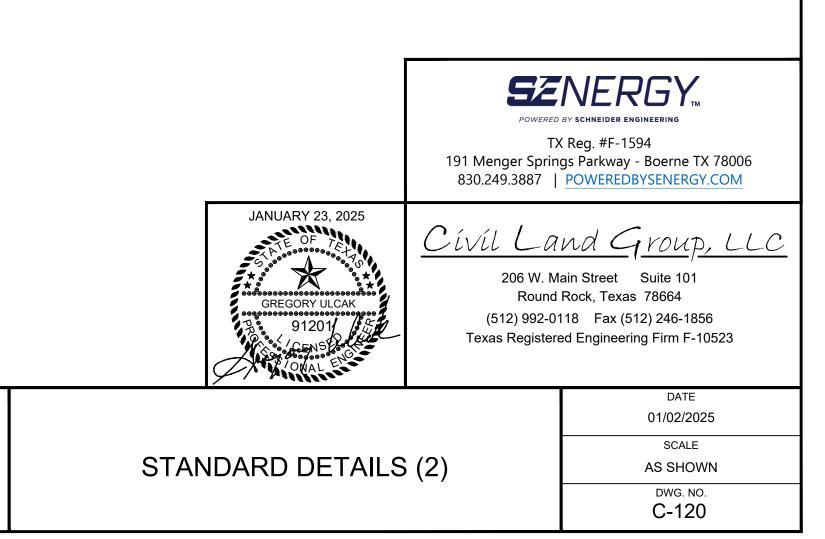
			1										
												DRAWN	B.FRYE
												CHECKED	G.ULCAK
Ltr.	Date	Revision	Ву	Chkd.	Appd.	Ltr.	Date	Revision	Ву	Chkd.	Appd.	APPROVED	G.ULCAK
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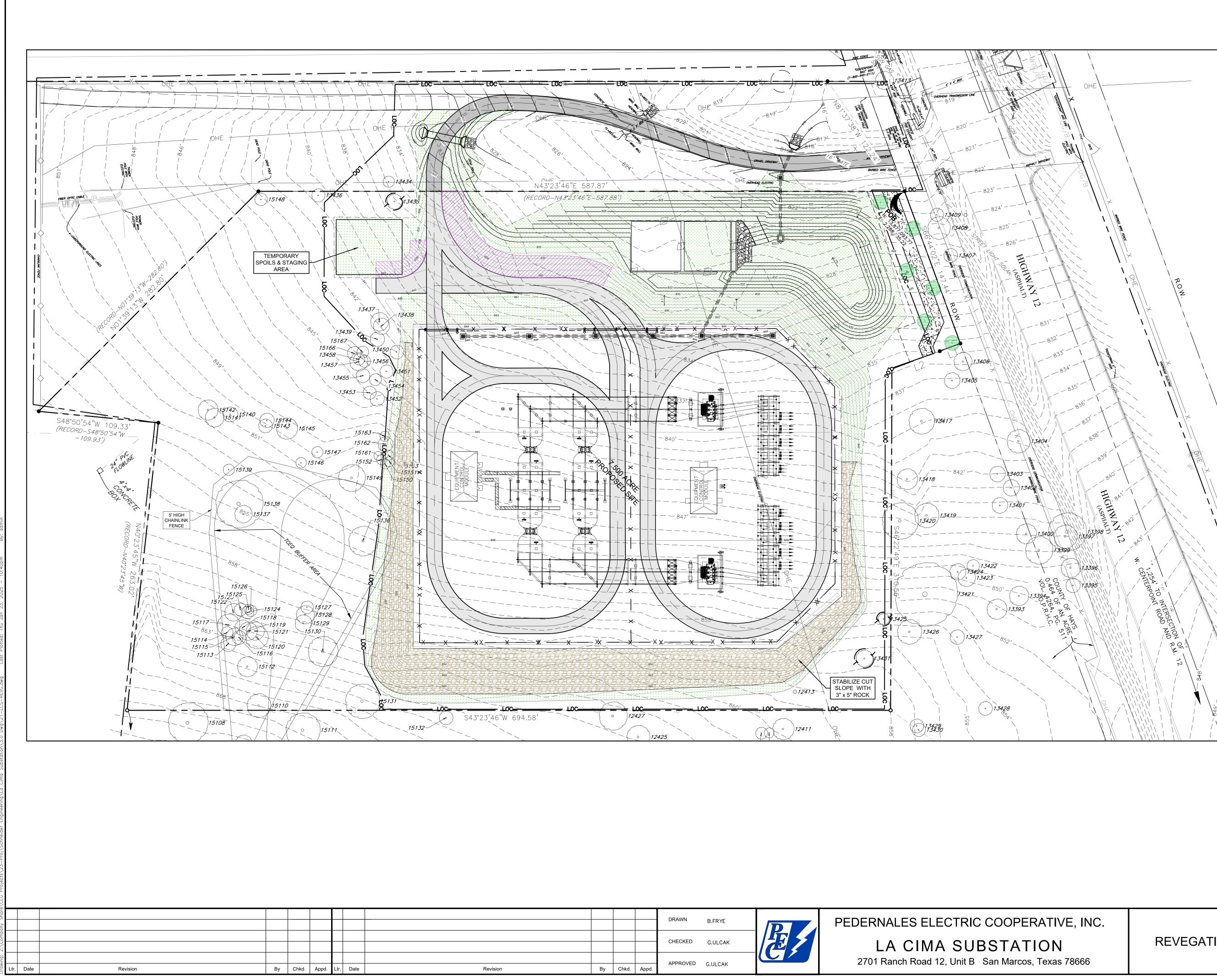


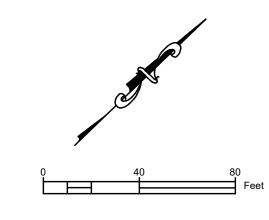


PEDERNALES ELECTRIC COOPERATIVE, INC.

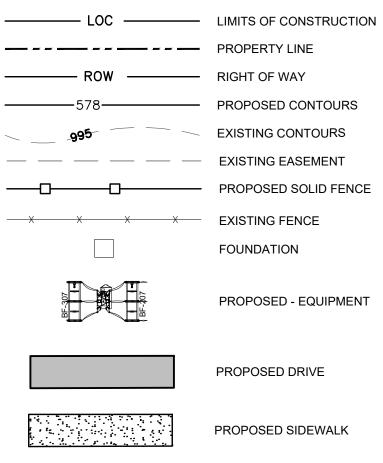
LA CIMA SUBSTATION 2701 Ranch Road 12, Unit B San Marcos, Texas 78666

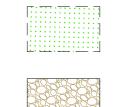


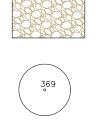


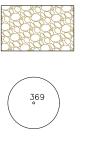


### LEGEND:

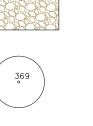














VEGETATIVE FILTER STRIP

PROPOSED TREES

EXISTING TREES TO REMAIN

FOUNDATION

PROPOSED - EQUIPMENT

PROPOSED DRIVE



TX Reg. #F-1594 191 Menger Springs Parkway - Boerne TX 78006 830.249.3887 | <u>POWEREDBYSENERGY.COM</u>



Civil Land Group, LLC 206 W. Main Street Suite 101 Round Rock, Texas 78664 (512) 992-0118 Fax (512) 246-1856

Texas Registered Engineering Firm F-10523

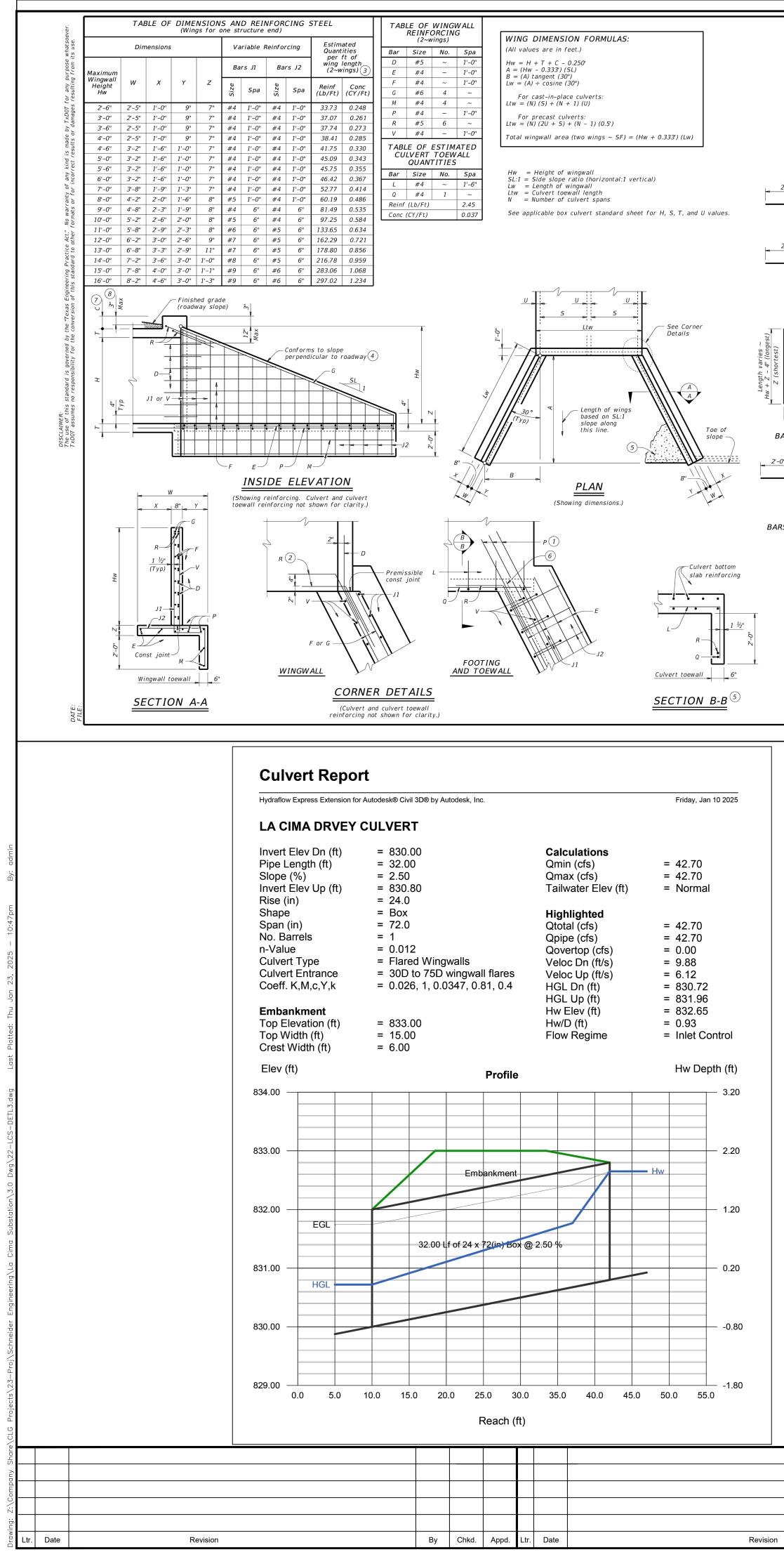
**REVEGATION / LANDSCAPE PLAN** 

01/02/2025 SCALE

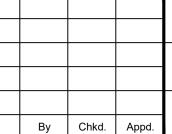
DATE

AS SHOWN

DWG. NO. C-121



	(1) Extend Bars P 3'-0" minimum into bottom slab of	at soeve Ise.							BC	)X DA	AT A						
	<ul> <li>box culvert.</li> <li>Adjust as necessary to maintain 1 1#2" clear cover and 4" minimum between bars.</li> </ul>	pose whi			N DIMEN			Fill	M		RE	INFORC	ING (sq.	in. / ft	.)②		
	<ul> <li>Quantities shown are based on an average wing height for two wings (one structure end). To determine total quantities for two wings, multiply the tabulated values</li> </ul>	for any purpose whatsoever resulting from its use.	5 (ft.) 6	Н (ft.) 2	TT (in.) 8	ТВ (in.) 7	TS (in.) 7	Height (ft.) < 2	(Min) (in.) –	AS1 0.23	AS2 0.27	AS3 0.19	AS4 0.17	AS5 0.19	AS7 0.19	AS8 0.17	Wei (to 7.
	by Lw. $\overbrace{4}^{(4)}$ Recommended values of side slope are: 2:1, 3:1, 4:1, and 6:1.	xDOT f nages i	6 6	2 2	7 7	7 7	7	2 < 3 3 - 5	43 43	0.25 0.20	0.21 0.17	0.17 0.17	0.17 0.17	-	-	-	6. 6.
	5 When shown elsewhere on the plans, construct 5" deep concrete riprap. Payment for riprap is	made by TxDOT ults or damages	6 6	2 2	7	7 7	7	10 15	39 39	0.20 0.26	0.17 0.20	0.17 0.20	0.17 0.17	-	-	-	6. 6.
a"	as required by Item 432, "Riprap." Unless otherwise shown on the plans or directed by the Engineer, provide a 6" wide by 1'-6" deep reinforced concrete toewall along all edges of the riprap	is res	6 6 6	2 2 2 2	7 7 7 7	7 7 7 7	7 7 7 7	20 25 30	39 39 39	0.34 0.43 0.52	0.26 0.32 0.38	0.26 0.32 0.39	0.17 0.17 0.17				6. 6. 6.
2.0	adjacent to natural ground; reinforce the toewall by extending typical riprap reinforcing into the toewall; and extend construction joints or grooved joints	No warranty of any kind formats or for incorrect	6	3	8	7	7	< 2	_	0.20	0.31	0.22	0.17	0.19	0.19	0.17	7.
<u>2'-0" + 30°</u>	oriented in the direction of flow across the full distance of the riprap at intervals of approximately 20'.	anty o or for	6	3	7	7	7	2 < 3	43	0.21	0.24	0.19	0.17	-	-	-	7.
BARS D	When such riprap is provided, the culvert toewall shown in SECTION B-B will not be required.	o warr	6 6	3 3	7 7	7 7	7	3 - 5 10	39 39	0.17 0.17	0.18 0.18	0.17 0.19	0.17 0.17				7
	6 At Contractor's option, culvert toewall may be ended flush with wingwall toewall. Adjust reinforcing	e Act." No	6 6	3	7	7 7	7	15 20	38 38	0.22 0.28	0.24 0.31	0.24 0.31	0.17 0.17	-	-	-	7.
2'-0"	as needed. (7) 0" Min to 5'-0" Max. Estimated curb heights are shown	tice Ac to oth	6	3	7	7	7	25	38	0.25	0.31	0.31	0.17	-	-	-	7
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	elsewhere in the plans. For structures with pedestrian rail or curbs taller than 1'-0, refer to the Extended Curb	Engineering Practice of this standard to	6	3	7	7	7	30	38	0.42	0.46	0.46	0.17	-	-	-	7
60°	Details (ECD) standard sheet. For structures with T631 or T631LS bridge rail, refer to the Mounting Details for T631 & T631LS Rails (T631-CM) standard sheet.	eering is sta	6	4	8	7	7	< 2	-	0.19	0.34	0.25	0.17	0.19	0.19	0.17	8
	Refer to the Box Culvert Rail Mounting Details (RAC) standard sheet for structures with bridge rail other than T631 or T631LS.	Engin of th	6 6	4	777	7 7	7	2 < 3 3 - 5	43 39	0.19 0.17	0.27 0.21	0.21	0.17 0.17	-	-		8
BARS R	(8) For vehicle safety, the following requirements must be met:	"Texas version	6	4	7	7	7	10	39	0.17	0.20	0.21	0.17	-	-	-	8
-, -,	<ul> <li>For structures without bridge rail, construct curbs no more than 3" above finished grade.</li> </ul>	the "T. convei	6 6	4	7	7	7	15 20	38 38	0.18	0.27 0.34	0.27	0.17	-	-	-	8
Length varies ~ Hw + Z - 4" (longest) Z (shortest)	<ul> <li>For structures with bridge rail, construct curbs flush with finished grade.</li> </ul>	by the	6	4	7	7	7	25	38	0.29	0.43	0.42	0.17	-	-	-	6
varies ~ 4" (longest) iortest)	Reduce curb heights, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.	verned ty for t	6	4	7	7	7	30	38	0.35	0.51	0.52	0.17	-	-	-	8
Length vé + Z - 4" Z (shor		standard is gover no responsibility	6	5	8	7	7	< 2	-	0.19	0.37	0.28	0.17	0.19	0.19	0.17	9
Leng Z (	MATERIAL NOTES: Provide Class C concrete (f'c=3,600 psi).	idar d espor	6 6	5	7	7 7	7	2 < 3 3 - 5	43 43	0.17	0.30 0.23	0.24 0.21	0.17	-	-	-	8
Hw	Provide Grade 60 reinforcing steel. Provide galvanized reinforcing steel if required		6	5	7	7	7	10	39	0.17	0.22	0.23	0.17	-	-	-	6
Y + 4"	elsewhere in the plans. In riprap concrete synthetic fibers listed on the	AER: of this ssumes	6 6	5 5	7	7 7	7	15 20	38 38	0.17	0.28 0.37	0.29 0.38	0.17	-	-	-	8
BARS J1 BARS V	"Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing unless noted otherwise.	DISCLAIM The use o TXDT as	6	5	7	7	7	25	38	0.25	0.45	0.46	0.17	-	-	-	8
	GENERAL NOTES:	DIS The TxD	6	5	7	7	7	30	38	0.30	0.54	0.55	0.17	-	-	-	8
-0" - 4"	Designed according to AASHTO LRFD Bridge Design Specifications.		6	6	8	7	7	< 2	-	0.19	0.38	0.30	0.17	0.19	0.19	0.17	1
	When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced		6 6	6	7	7 7	7	2 < 3 3 - 5	52 52	0.17 0.17	0.32 0.24	0.26 0.22	0.17 0.17	-	-	-	9
-0"	or eliminated as directed by the Engineer. See Box Culvert Supplement (BCS) standard sheet for		6	6 6	7	7	7	10	43	0.17	0.24	0.22	0.17	-	-	-	9
Z + Z	additional dimensions and information. The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are		6	6	7	7	7	15	39	0.17	0.29	0.31	0.17	-	-	-	9
	for Contractor's information only.		6 6	6 6	777	7 7	7	20 25	39 38	0.18	0.38	0.39 0.48	0.17		-	-	9
RS L BARS J2			6	6	7	7	7	30	38	0.27	0.55	0.57	0.17	-	-	-	9
	Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing dimensions are out-to-out of bars.																
	Bridge Division Texas Department of Transportation Standard																
	_																
	CONCRETE WINGWALLS																
	WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS																
	FILE: CD-FW0-20.dgn DN: GAF CK: CAT DW: TXDOT CK: TXDOT (C)TXDOT February 2020 CONT SECT JOB HIGHWAY			(2) AS	or box le S1 thru / einforcen equired a	- AS4, AS nent pei	57 and A r linear	foot of	box le	ngth. AS	55 is min	nimum					



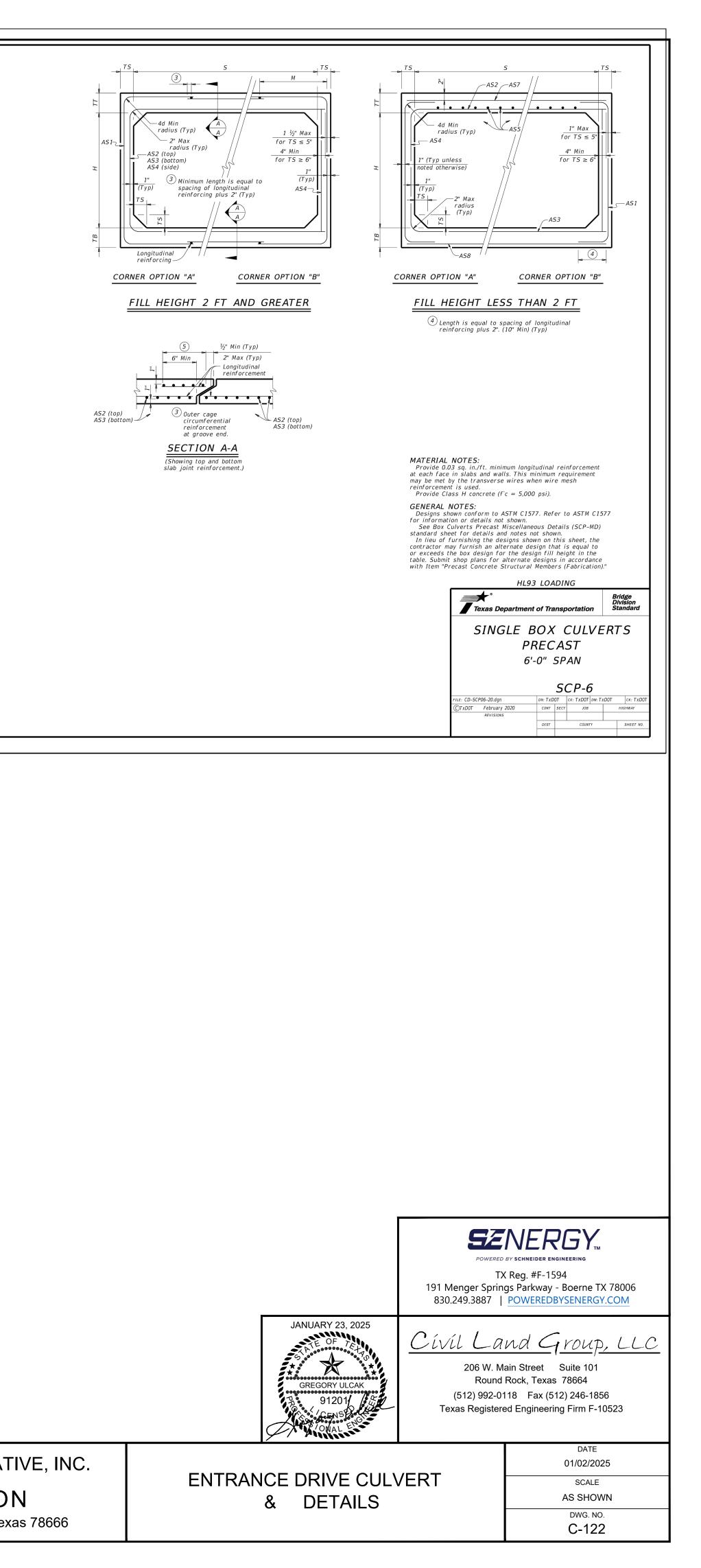
DRAWN B.FRYE CHECKED G.ULCAK

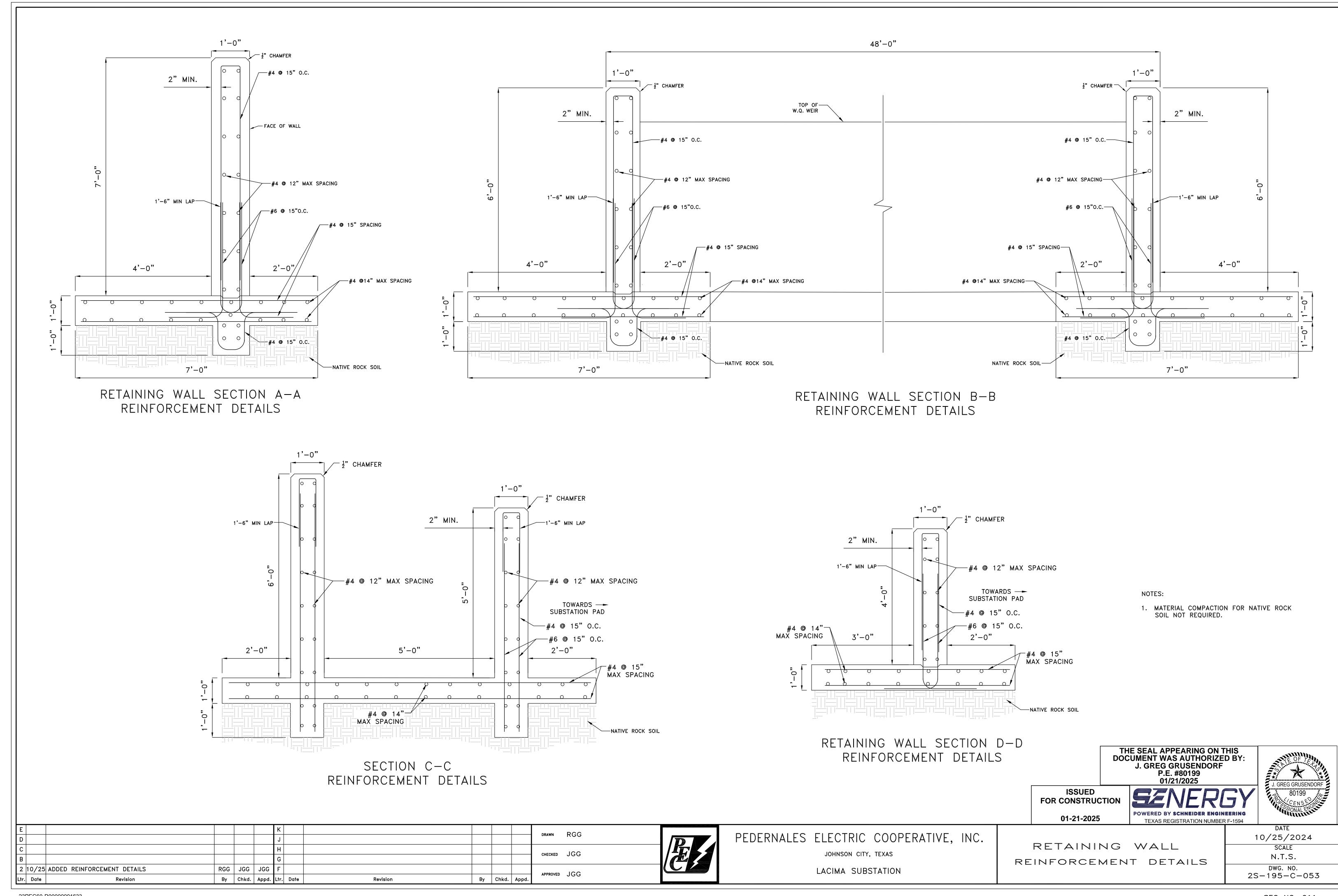
APPROVED G.ULCAK



PEDERNALES ELECTRIC COOPERATIVE, INC.

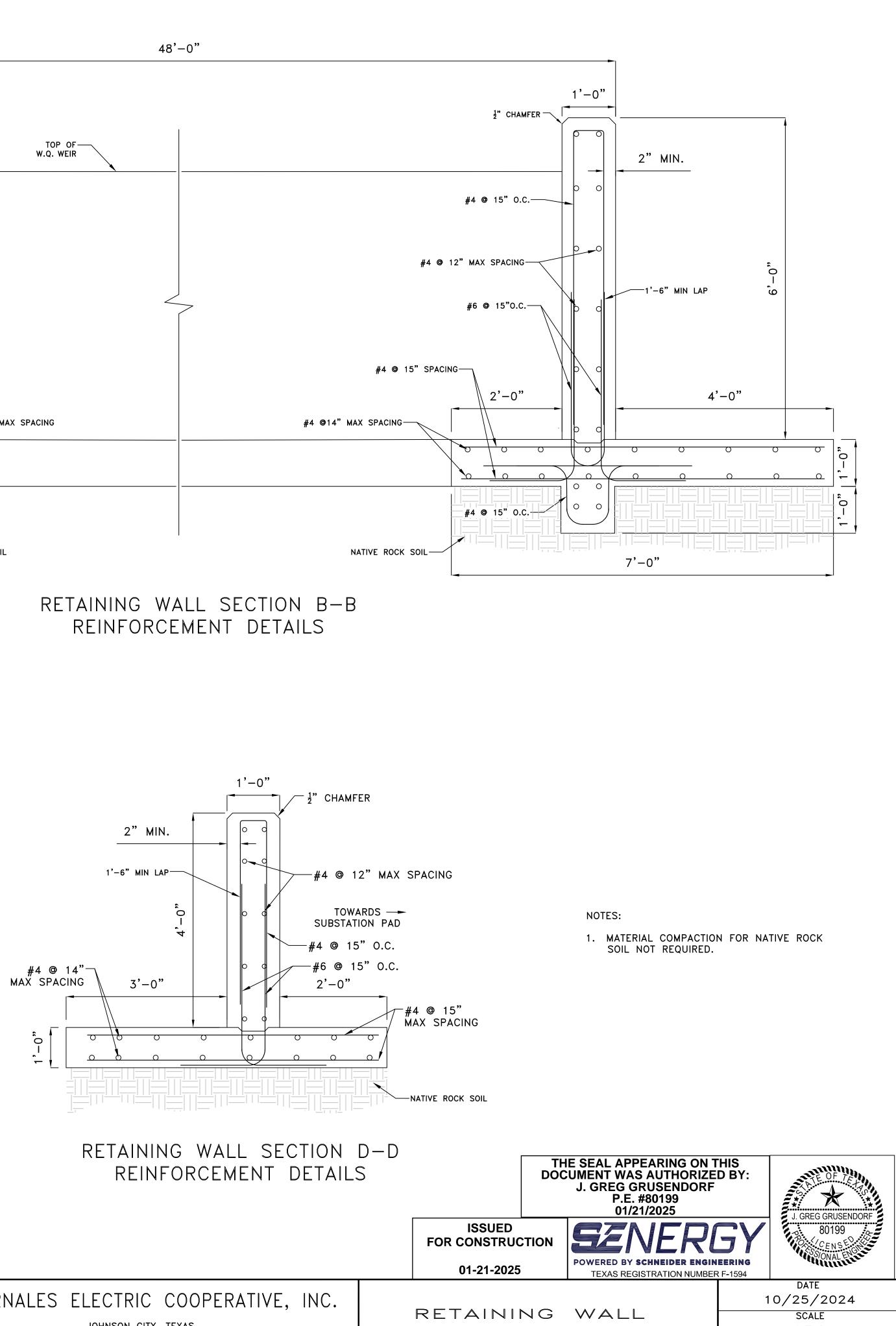
LA CIMA SUBSTATION 2701 Ranch Road 12, Unit B San Marcos, Texas 78666

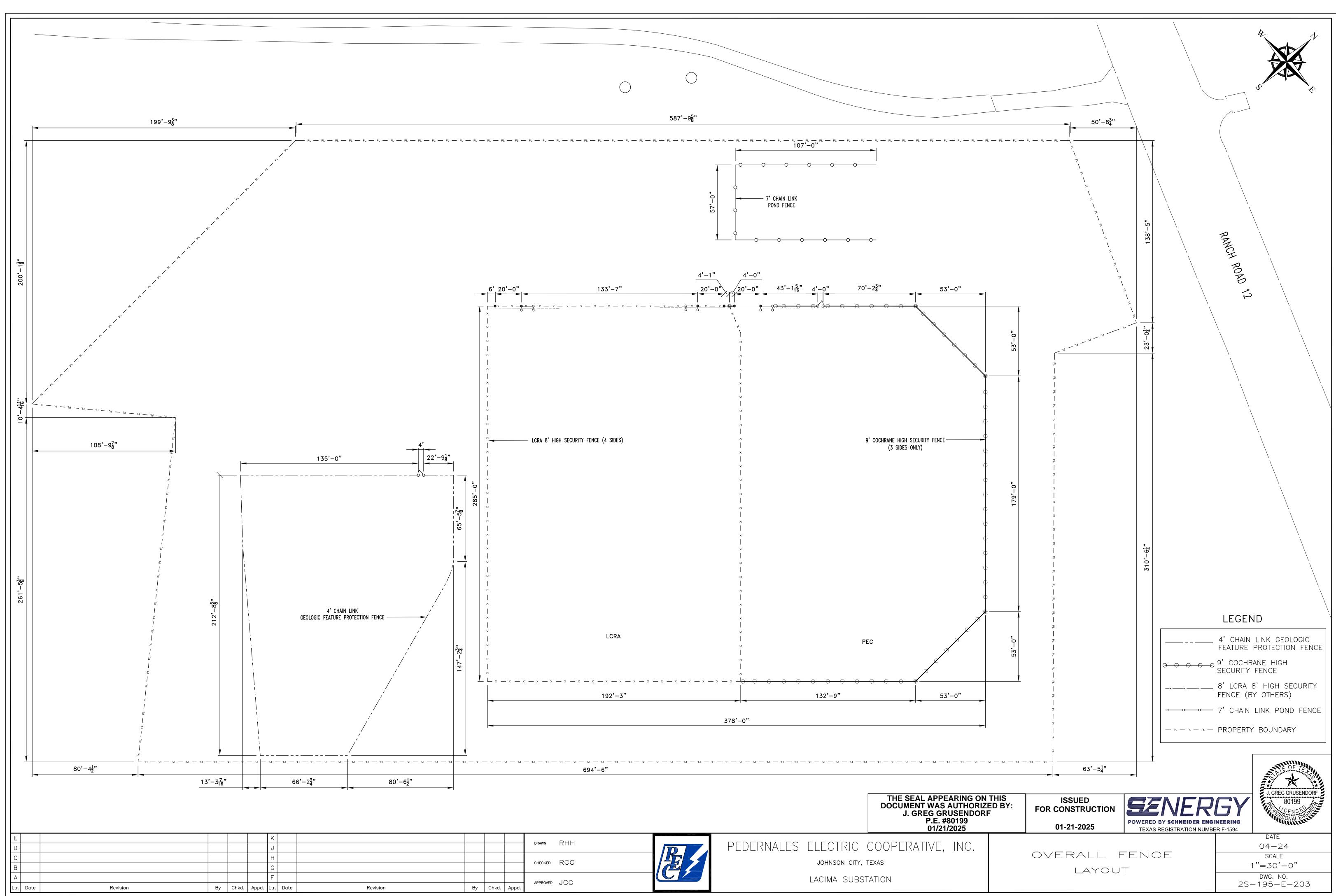




23PEC60-R00000001633

WN	RGG		PEDERNALES	ELECTRIC
CKED	JGG	Æ		JOHNSON CITY
ROVED	JGG			LACIMA SUB

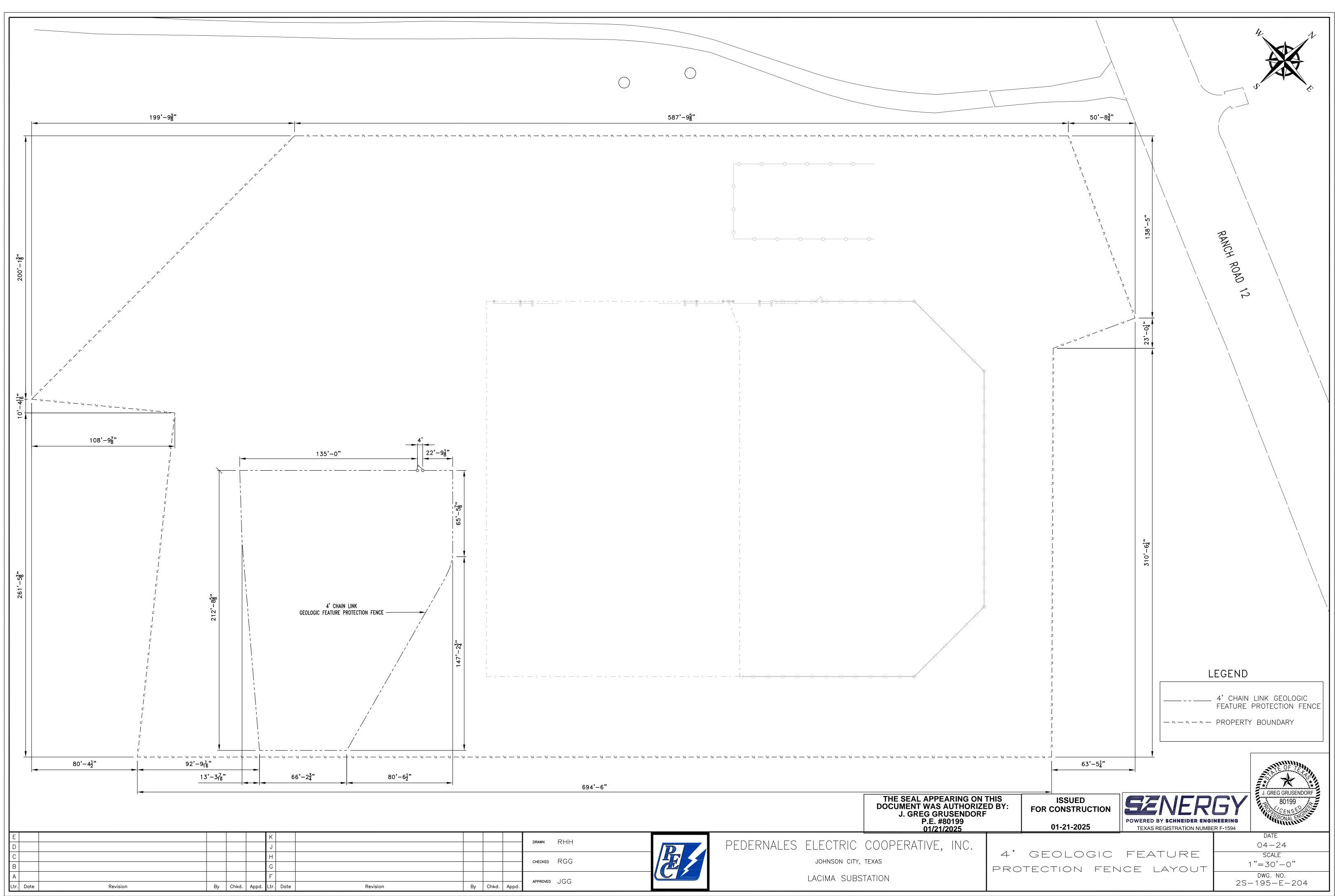




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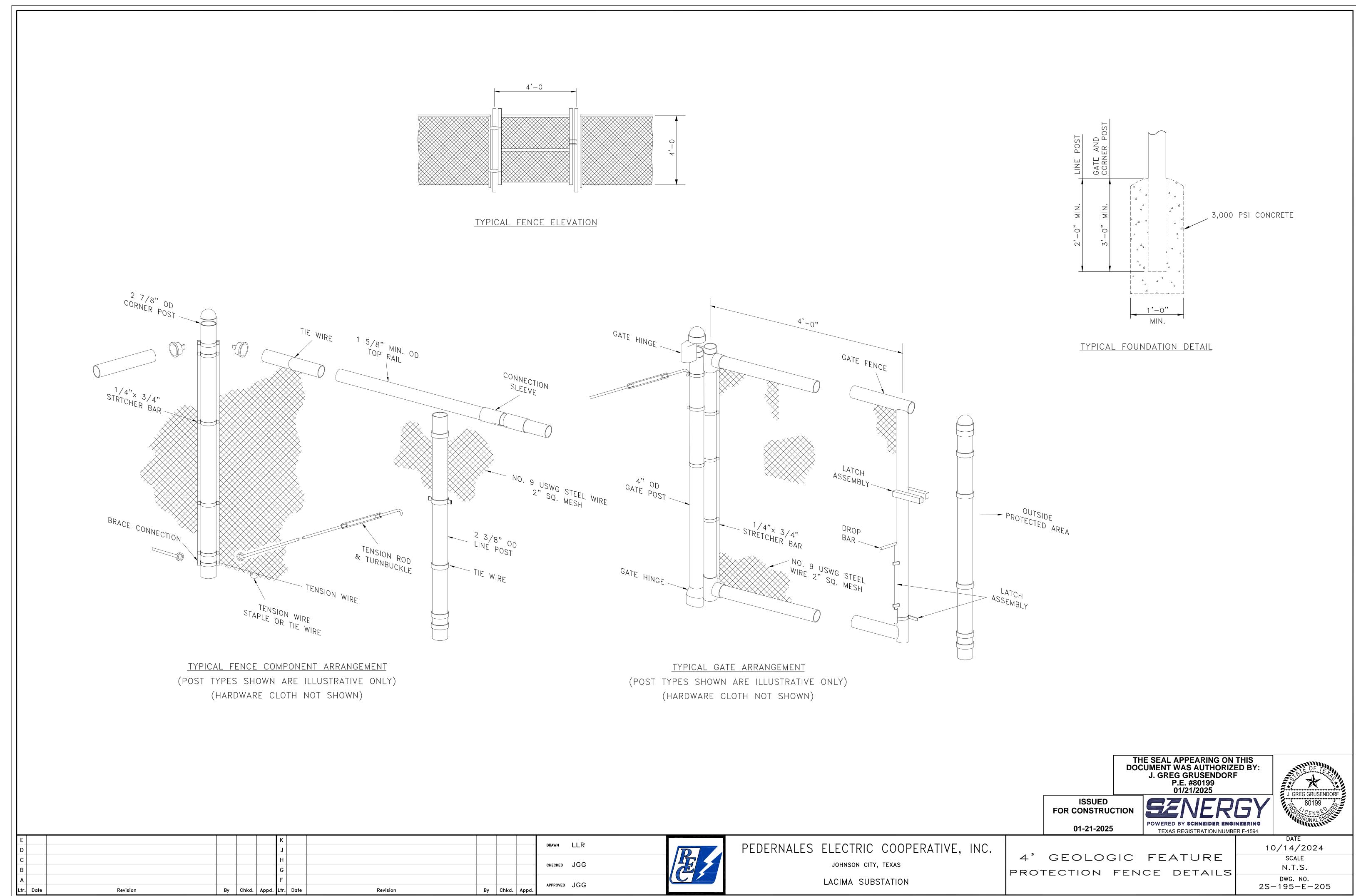
JOHNSO	N CITY,	TEX
LACIMA	SUBS	тат

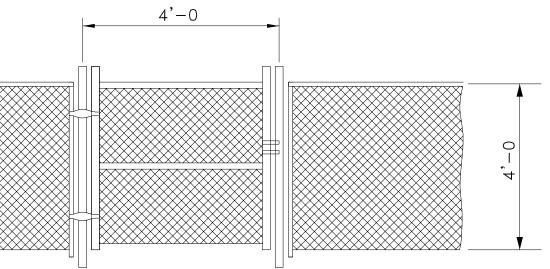
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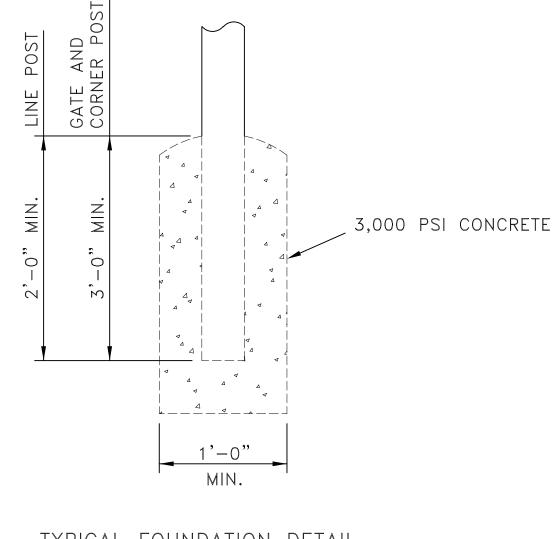
23PEC60-R00000001633

				1
	drawn RHH			
		PEDERN	IALES ELECTRIC	COOPER
	CHECKED RGG		JOHNSON CITY,	TEXAS
	APPROVED JGG		LACIMA SUBS	TATION
By Chkd. Appd.				

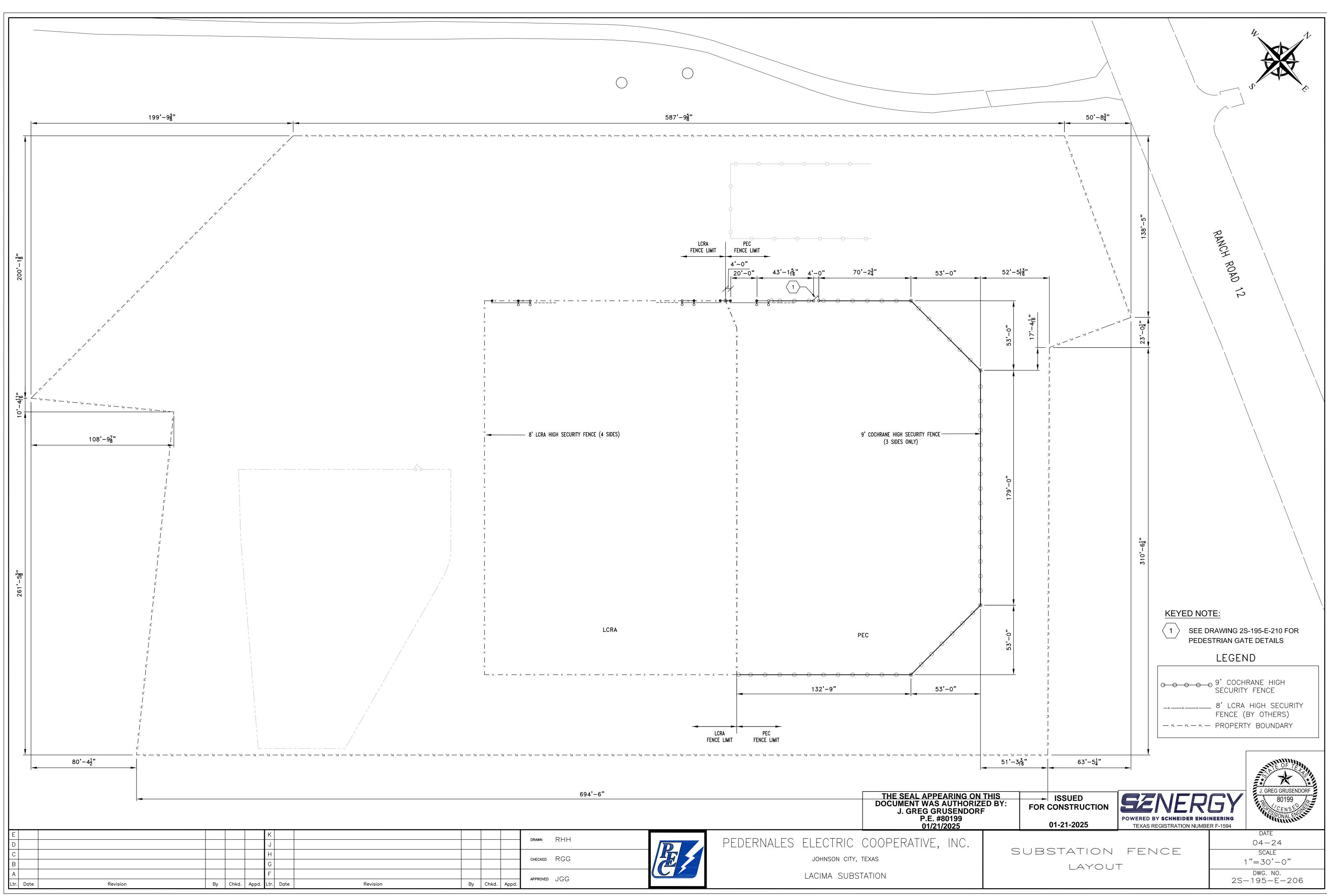




			DRAWN	LLR				
					$\mathbf{D}$	PEDERNALES	ELECIRIC	COOPERA
			CHECKED				JOHNSON CITY,	TEYAS
			CHECKED	366			JOHNSON CHT,	, ILAAS
							LACIMA SUBS	STATION
Ву	Chkd.	Appd.	APPROVED	JGG				

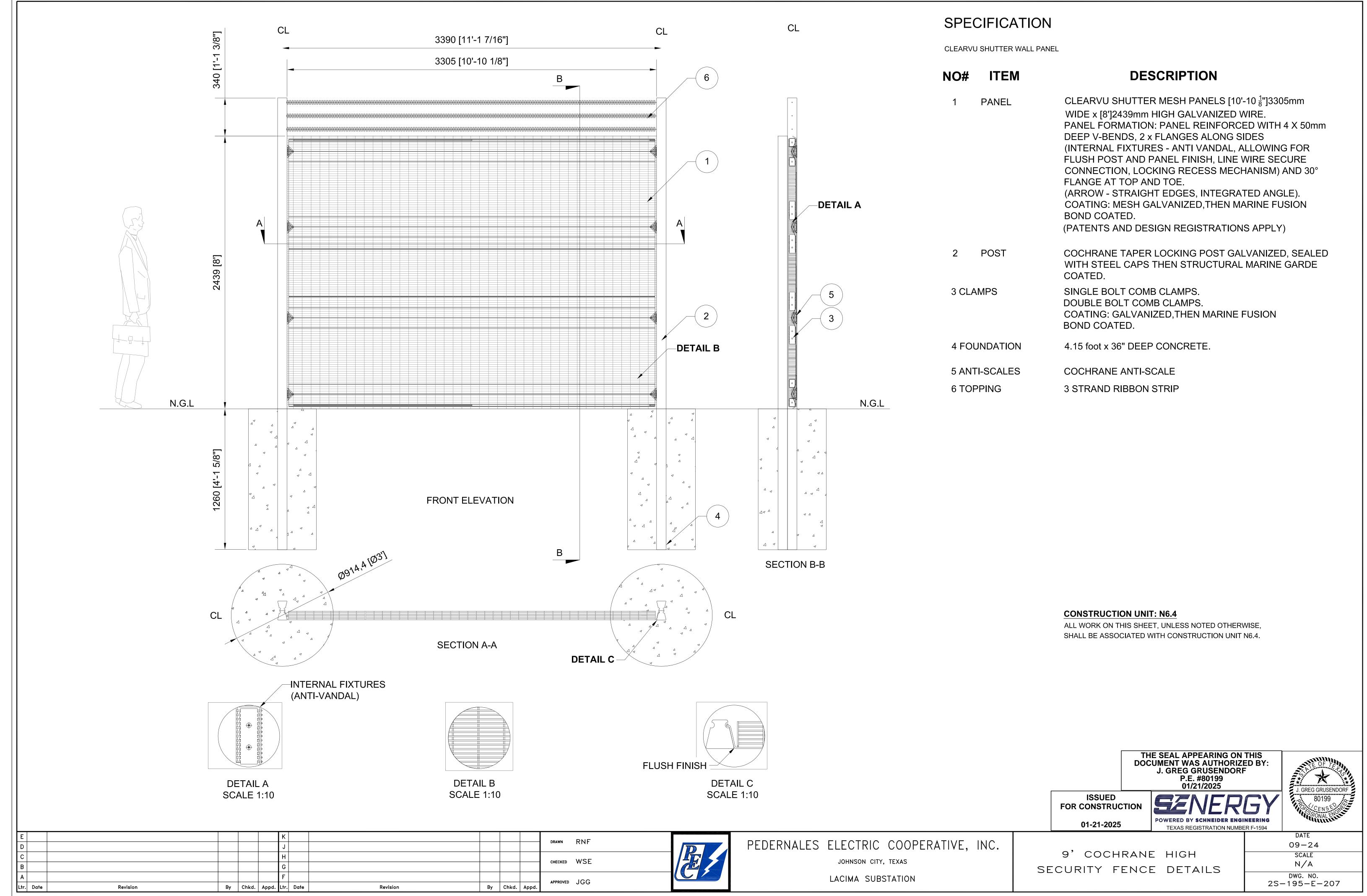


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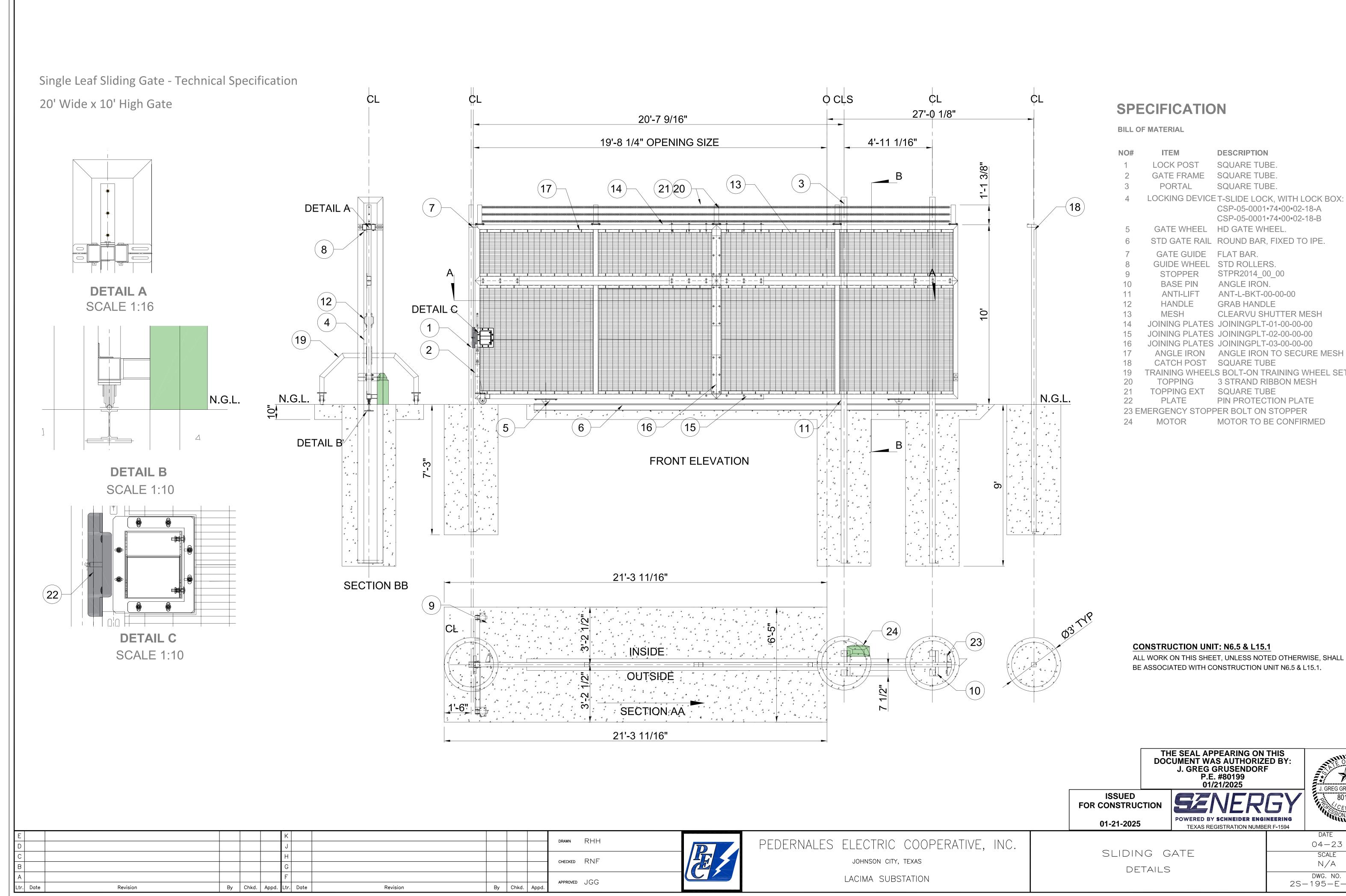
23PEC60-R00000001633

				694'-6"				THE SEA
								J. G
			DRAWN	RHH		PEDERNALES	ELECTRIC	COOPERA
			CHECKED	RGG	E		JOHNSON CITY,	TEXAS
			APPROVED				LACIMA SUBS	STATION
Ву	Chkd.	Appd.						



<sup>23</sup>PEC60-R00000001633

NO#	ITEM	DESCRIPTION
1	PANEL	CLEARVU SHUTTER MESH PANELS [10'-10 $\frac{1}{8}$ "]3305mm WIDE x [8']2439mm HIGH GALVANIZED WIRE. PANEL FORMATION: PANEL REINFORCED WITH 4 X 50mm DEEP V-BENDS, 2 x FLANGES ALONG SIDES (INTERNAL FIXTURES - ANTI VANDAL, ALLOWING FOR FLUSH POST AND PANEL FINISH, LINE WIRE SECURE CONNECTION, LOCKING RECESS MECHANISM) AND 30° FLANGE AT TOP AND TOE. (ARROW - STRAIGHT EDGES, INTEGRATED ANGLE). COATING: MESH GALVANIZED, THEN MARINE FUSION BOND COATED. (PATENTS AND DESIGN REGISTRATIONS APPLY)
2	POST	COCHRANE TAPER LOCKING POST GALVANIZED, SEALED WITH STEEL CAPS THEN STRUCTURAL MARINE GARDE COATED.
3 CLA	MPS	SINGLE BOLT COMB CLAMPS. DOUBLE BOLT COMB CLAMPS. COATING: GALVANIZED,THEN MARINE FUSION BOND COATED.
4 FOl	JNDATION	4.15 foot x 36" DEEP CONCRETE.
5 AN1	<b>FI-SCALES</b>	COCHRANE ANTI-SCALE
6 TOF	PING	3 STRAND RIBBON STRIP



			DRAWN	RHH				
			DRAWN		D	PEDERNALES	ELECIRIC	COOPERA
			CHECKED	RNF	E		JOHNSON CITY,	TEXAS
				JGG			LACIMA SUBS	STATION
Ву	Chkd.	Appd.	APPROVED	JGG				

1	LOCK POST	SQUARE TUBE.	1
2	GATE FRAME	SQUARE TUBE.	3
3	PORTAL	SQUARE TUBE.	1
4	LOCKING DEVICE	T-SLIDE LOCK, WITH LOCK BOX: CSP-05-0001•74•00•02-18-A CSP-05-0001•74•00•02-18-B	1
5	GATE WHEEL	HD GATE WHEEL.	2
6	STD GATE RAIL	ROUND BAR, FIXED TO IPE.	1
7	GATE GUIDE	FLAT BAR.	1
8	GUIDE WHEEL	STD ROLLERS.	2
9	STOPPER	STPR2014_00_00	1
10	BASE PIN	ANGLE IRON.	2
11	ANTI-LIFT	ANT-L-BKT-00-00-00	1
12	HANDLE	GRAB HANDLE	2
13		CLEARVU SHUTTER MESH	8
14	JOINING PLATES	JOININGPLT-01-00-00-00	1
15	JOINING PLATES	JOININGPLT-02-00-00-00	2
16	JOINING PLATES	JOININGPLT-03-00-00-00	14
17	ANGLE IRON	ANGLE IRON TO SECURE MESH	16
18	CATCH POST	SQUARE TUBE	1
19	TRAINING WHEEL	S BOLT-ON TRAINING WHEEL SET	1
20	TOPPING	3 STRAND RIBBON MESH	1
21	TOPPING EXT		5
22	PLATE	PIN PROTECTION PLATE	1
23	EMERGENCY STOPF	PER BOLT ON STOPPER	1
24	MOTOR	MOTOR TO BE CONFIRMED	1

QTY#

SEQ NO: 023

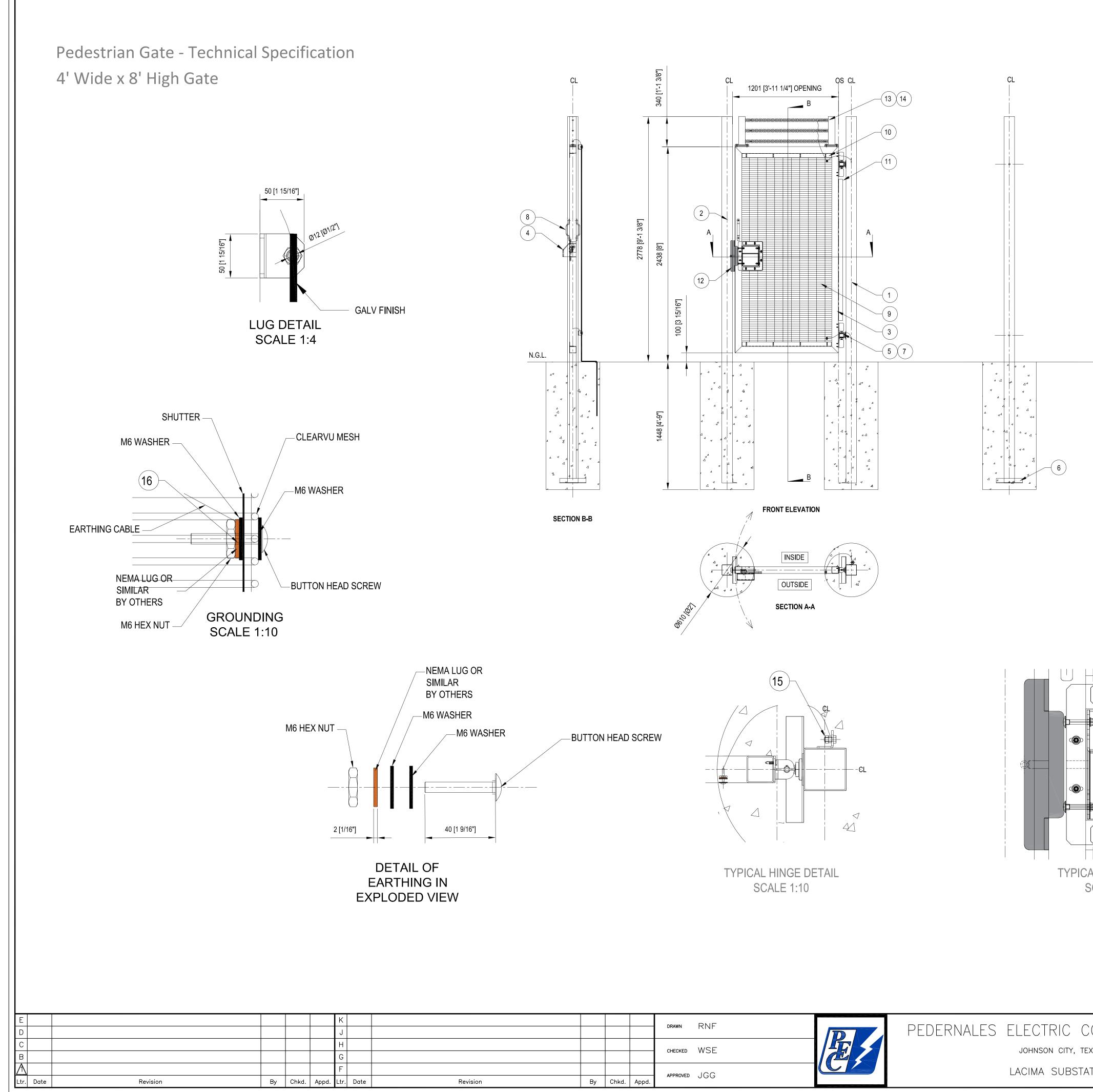
DATE

04-23

SCALE N/A

DWG. NO. 2S-195-E-209

J. GREG GRUSENDORF



TYPICAL LOCK DETAIL SCALE 1:10

			drawn RNF		PEDERNALES ELECTRIC COOPERA
			CHECKED WSE	E	JOHNSON CITY, TEXAS
Ву	Chkd.	Appd.	APPROVED JGG		LACIMA SUBSTATION

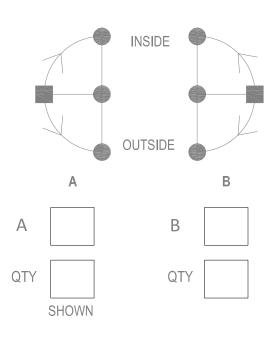
### SPECIFICATIONS

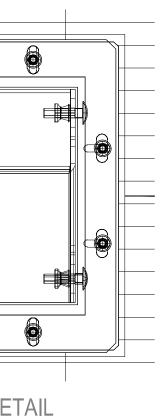
**BILL OF MATERIAL** 

NO#	ITEM	DESCRIPTION	QTY#
1	HINGE POST	SQUARE TUBE	1
2	LOCKING POST	SQUARE TUBE	1
3	GATE FRAME	SQUARE TUBE	1
4	LOCKING DEVICE	T-SLIDE LOCK, WITH LOCK BOX: CSP-05-0001•74•00•02-18-A CSP-05-0001•74•00•02-18-B	1
5	HINGE	LARGE HINGE: CSP-05-4861_M27•18-02-A-R02	2
6	BASE PIN	ANGLE IRON: CSP-05-0001•74•00•06-18-A-002	2
7	COVER PLATE	CSP-05-0001•74•00•01-18-B CSP-05-0001•74•00•01-18-C	4
8	HANDLE	GRAB HANDLE	2
9	MESH	CLEARVU SHUTTER MESH	1
10	ANGLE IRO N	ANGLE IRON TO SECURE MESH	2
11	ANGLE IRO N	ANTI TAMPERING ANGLE IRON	1
12	PLATE	PIN PROTECTION PLATE	1
13	TOPPING	3 STRAND RIBBON STRIP	1
14	TOPPING EXTENSION	SQUARE TUBE	2
15 16	LUG EARTHING	GROUNDING LUG EARTHING MATERIAL SUPPLIED BY OTHERS	4

OPENING DIRECTION TERMS AND CONDITIONS: DEAR CLIENT, KINDLY TAKE NOTE THAT SHOULD THE OPENING DIRECTION OF THE GATE NOT BE CLEARLY INDICATED WE CONCLUDE THAT OPENING DIRECTION A IS ACCEPTED ON APPROVAL OF DRAWINGS.

**OPENING DIRECTION:** 

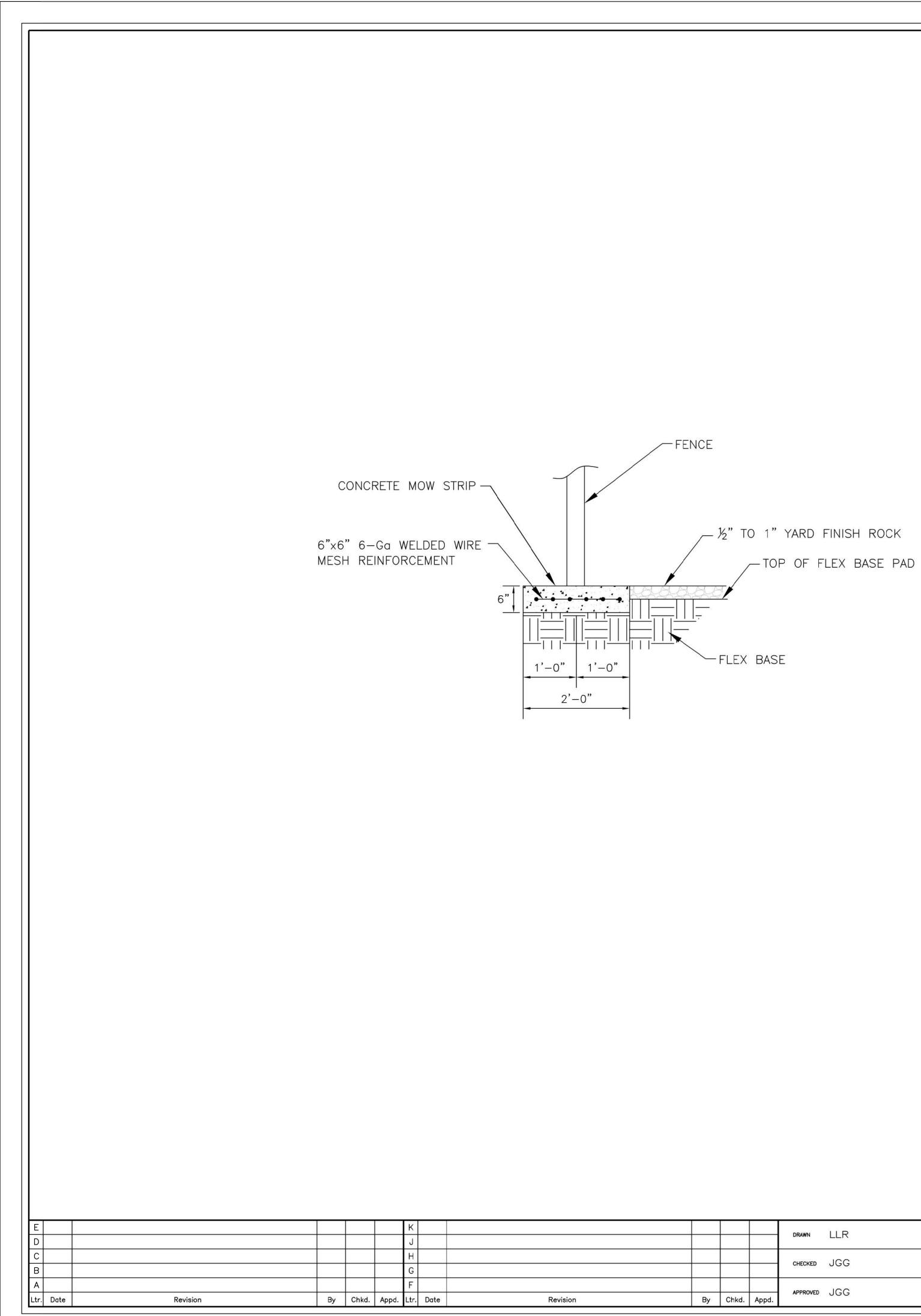




### **CONSTRUCTION UNIT: N6.6**

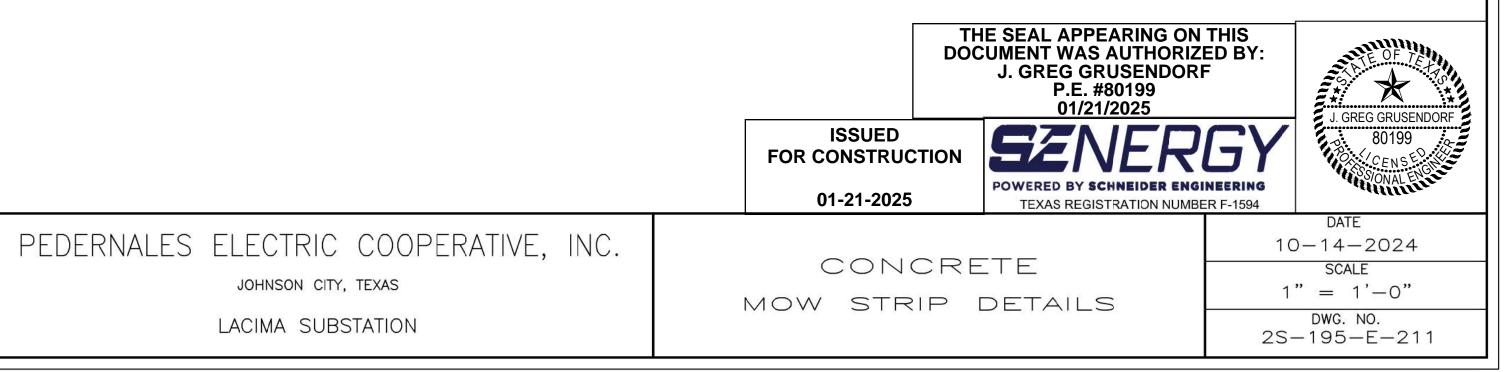
ALL WORK ON THIS SHEET, UNLESS NOTED OTHERWISE, SHALL BE ASSOCIATED WITH CONSTRUCTION UNIT N6.6.





23PEC60-R00000001633

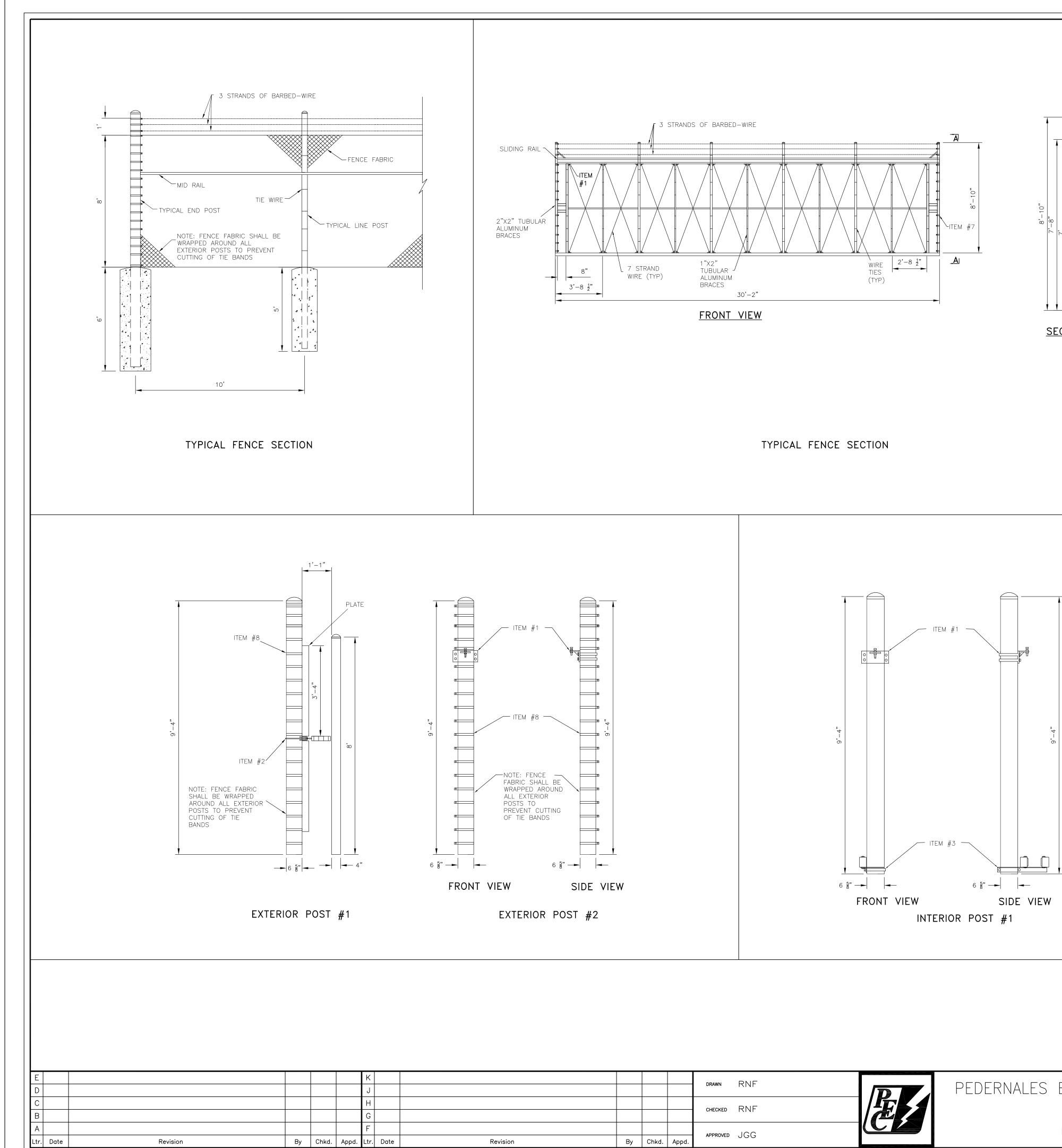
			DRAWN	LLR	
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			CHECKED		
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			APPROVED	100	
Ву	Chkd.	Appd.	APPROVED	966	



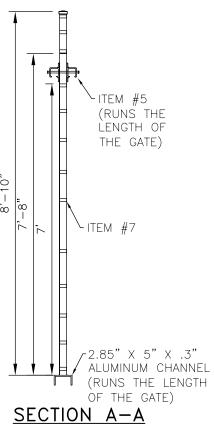
NOTES:

- 1. REINFORCING STEEL SHALL BE PER ASTM A185 SPECIFICATION.
- 2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- 3. THE TESTED SLUMP VALUE SHOULD BE NO GREATER THAN 5" FOR THE SLAB.
- 4. CONTRACTOR SHALL VERIFY ALL QUANTITIES.

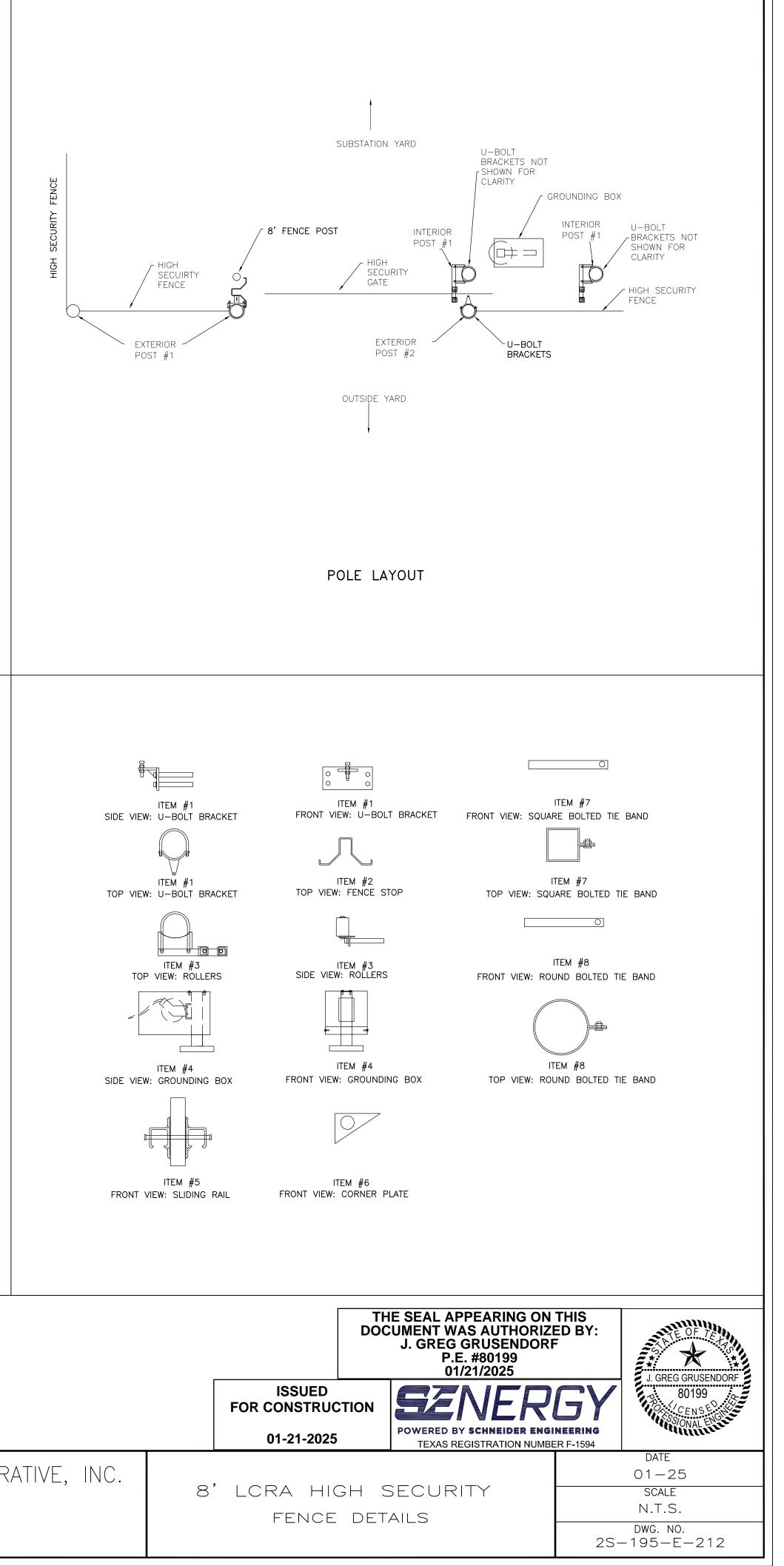
SEQ NO: 025



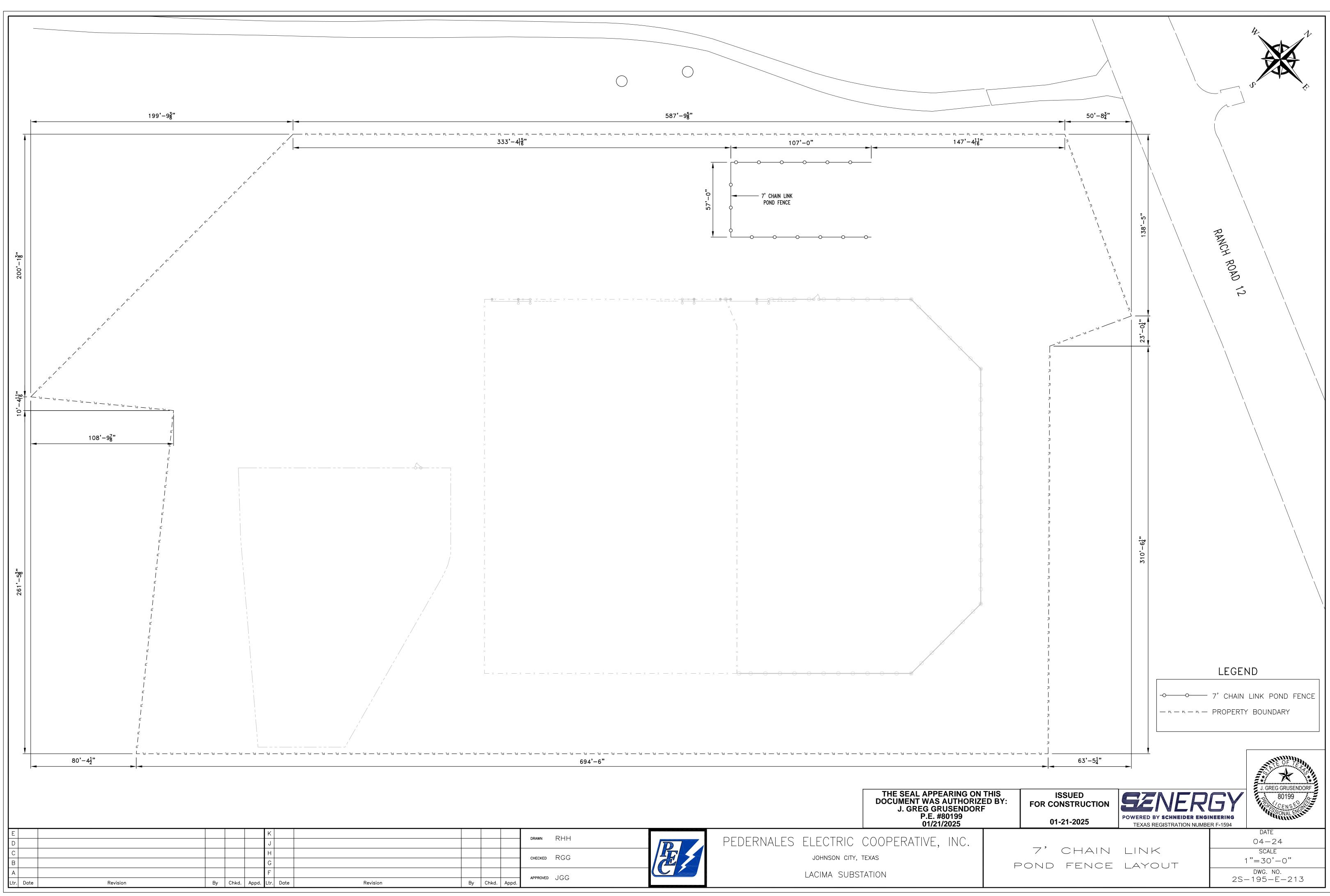
<sup>23</sup>PEC60-R00000001633



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					PEDERNALES	ELECIKIC	COUPERA
			CHECKED	RNF		JOHNSON CITY,	TEXAS
 By	Chkd.	Appd.	APPROVED	JGG		LACIMA SUBS	STATION



SEQ NO: 026



<sup>23</sup>PEC60-R00000001633

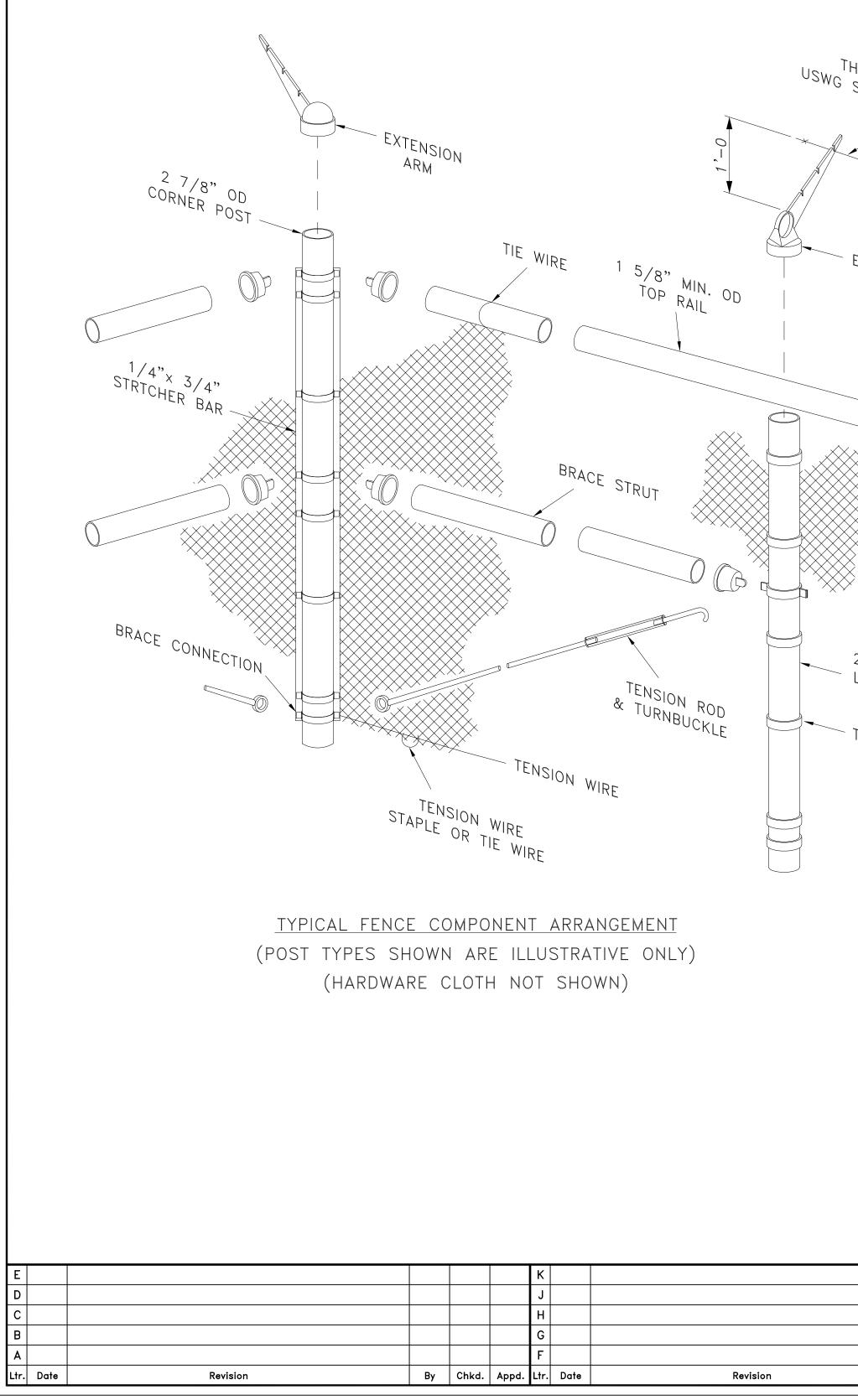


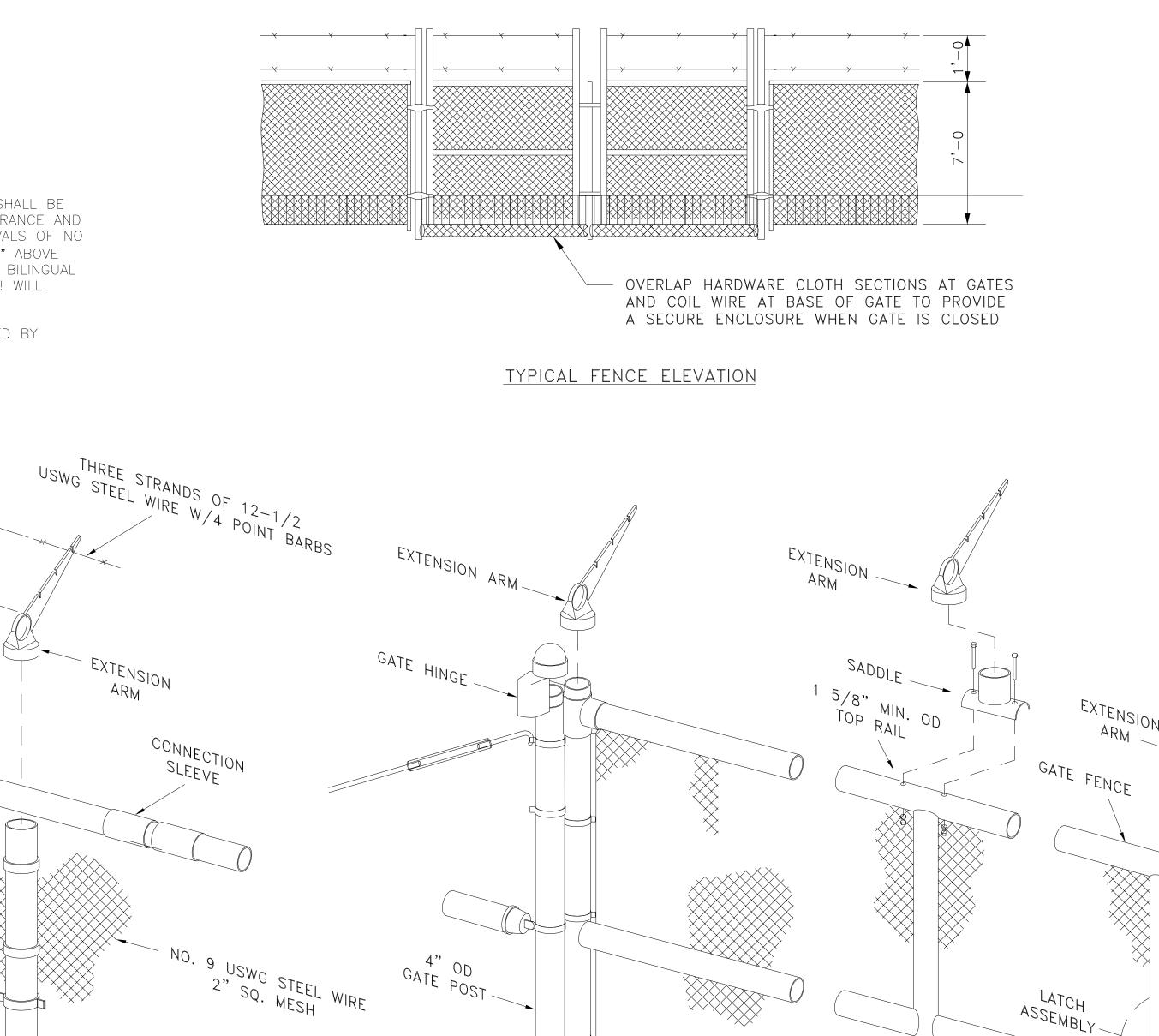
DANGER SIGNAGE (UTICOM U1114DP-G, TYP.)

### SIGNAGE

1. DANGER SIGNS MEETING CURRENT NESC REQUIREMENTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT EACH ENTRANCE AND ALONG THE FENCE ON EACH SIDE EVENLY SPACED AT INTERVALS OF NO MORE THAN 50 FEET. DANGER SIGNS SHALL BE PLACED 5'10" ABOVE FINAL GRADE. DANGER SIGNS SHALL BE UTICOM U1114DP-G, BILINGUAL SIGNS THAT READ, "DANGER HIGH VOLTAGE INSIDE. KEEP OUT! WILL SHOCK, BURN OR CAUSE DEATH" IN ENGLISH AND SPANISH.

2. ALL ENTRY SIGNAGE SHOULD BE PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE WITH OWNER FOR INFORMATION.





ASSEMBLY - STRETCHER BAR 2 3/8" OD Line post <sup>140.</sup> 9 USWG STEEL | 1 WIRE 2" SQ. MESH TIE WIRE <sup>GATE</sup> HINGE

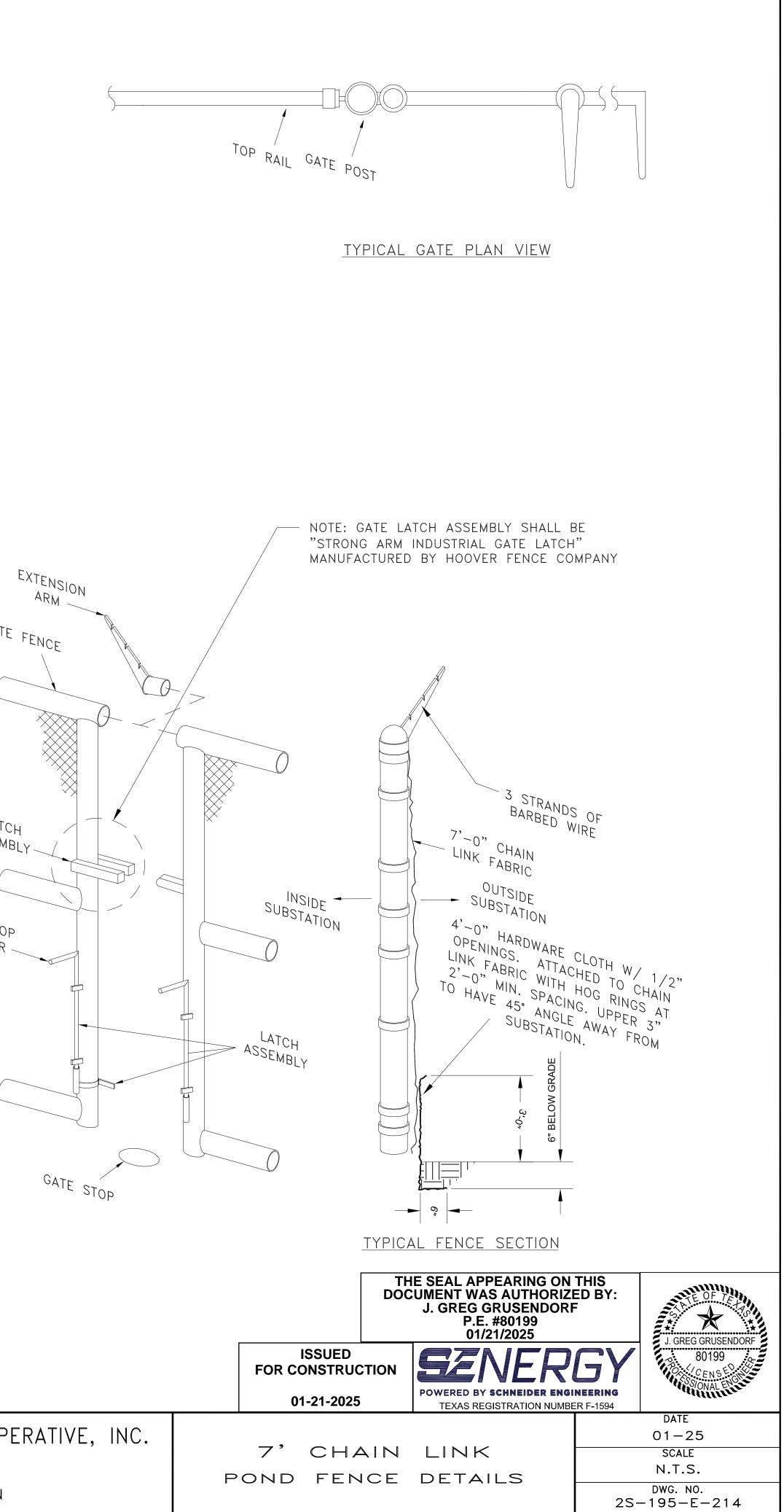
TYPICAL GATE ARRANGEMENT (POST TYPES SHOWN ARE ILLUSTRATIVE ONLY) (HARDWARE CLOTH NOT SHOWN)

LATCH

DROP

BAR

			DRAWN	RNF				
					D	PEDERNALES	ELECIRIC	COUPERAI
			CHECKED	RNF	E		JOHNSON CITY	TEXAS
				PPROVED JGG			LACIMA SUBS	STATION
Ву	Chkd.	Appd.	AFPROVED	366				



SEQ NO: 028

### **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)(Ii), (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: <u>Greg</u> Ulcak, PE

Date: 11 14 24

Signature of Customer/Agent

frey alente

Regulated Entity Name: PEC La Cima Substation

### Permanent Best Management Practices (BMPs)

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

- 1. X Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
  - N/A
- 2. X 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.
  - X 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. X 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.
  - X 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 multifamily 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.
  - $\mathbf{X}$  The site will not be used for multi-family residential developments, schools, or small business sites.
- 6. X Attachment B BMPs for Upgradient Stormwater.

X	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. X 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.

X N/A

- 9. X 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.
  - X 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. X 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:

- X Design calculations (TSS removal calculations)
- X TCEQ construction notes

X All geologic features

X All proposed structural BMP(s) plans and specifications

N/A

11.	X	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:

X Prepared and certified by the engineer designing the permanent BMPs and measures

X Signed by the owner or responsible party

- **X** Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
- X 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.

X 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.

X N/A

# Responsibility for Maintenance of Permanent BMP(s)

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

14. X 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. X 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

### 2701 RANCH ROAD 12 WPAP

#### ATTACHMENT B: BMPs FOR UPGRADIENT STORMWATER

Upgradient water is made up of sheet flow and shallow concentrated flow across undeveloped area as shown in the Construction Documents, Sheets C-110. These areas are routed around the developed portion of the site in new ditches and captured in the proposed pond. Undeveloped areas that do not get routed to the pond will drain to existing ditched along the existing drive and/or routed directly to the ditch along RR12.

### ATTACHMENT C: BMPs FOR ON-SITE STORMWATER

On-site stormwater will travel as sheet flow, shallow concentrated flow, ditches or across pervious areas before being collected sedimentation/filtration and detention pond. After treatment, the flows will exit the detention pond to the drainage ditch along RR 12. All runoff will be released from the site and eventually drain into the Sink Creek.

TCEQ-0600 ATTACHMENTS A & B: BMPS FOR UPGRADIENT AND ON\_SITE STORMWATER

## 2701 RANCH ROAD 12 WPAP ATTACHMENT G - INSPECTION, INSPECTION, REPAIR, & RETROFIT

The following guidelines should be used for the maintenance plan for permanent BMPs.

• **During Construction.** The ponds shall be rough graded at 100% capacity. Either the permanent outlet or a temporary outlet must be constructed prior to development of embankment or excavation that leads to ponding conditions. The outlet system must consist of a sump pit outlet and an emergency spillway meeting the requirements of the City of Austin Drainage and/or Environmental Criterial manual.

Prior to site completion, the ponds shall be fully constructed and stabilized to minimize sediment loads. The basins shall become operational prior to first occupancy. Until all the construction within the basin's drainage area has been completed and exposed earth stabilized, the basin will be inspected weekly and after all rain events.

- Mowing. Grassy side-slopes & embankments of the sedimentation and detention basins should be mowed regularly to discourage woody growth and control weeds. Grass areas in and around basins must be mowed at least twice annually, or more frequently if vegetation exceeds 18 inches in height. When mowing is performed, a mulching mower should be used or grass clippings should be caught and removed. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.
- *Inspections.* Inspections should take place a minimum of twice a year to evaluate facility operation. One inspection should take place during or immediately following wet weather to determine if the basin is meeting the target detention time. The remaining inspections should occur between storm events. The filtration sand bed shall be inspected for excess sediment. The inlet and outlet structure should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet as described in previous sections. During each inspection, erosion areas inside and downstream of the BMP should be identified and repaired/revegetated immediately. Cracks, voids, and undermining should be patched/filled to prevent additional structural damage. The inspections should be carried out with as-built pond plans in hand.
- Sediment Removal. A properly designed pond will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with level sensor operation. Sediment shall be removed from the filtration sand bed and basin at least every 5 years, or when sediment depth exceeds 6 inches (or 12 inches during construction).
- Debris and Litter Removal. As part of periodic mowing operations and inspections,

debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the inlet and outlet structure. These items should be checked for possible clogging.

- **Erosion Control.** The basin side slopes, emergency spillway, and embankment all may periodically suffer from slumping and erosion. Corrective measures such as regrading and revegetation may be necessary. Similarly, the riprap protecting the channel near the outlet may need to be repaired or replaced.
- Nuisance Control. Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).
- *Maintenance Access.* Maintenance will be performed by maintenance personnel from within the basins. Maintenance equipment and materials to be removed will be hoisted in and out of the basins via buckets using applicable mechanical equipment.

#### Non-Routine Maintenance

• **Structural Repairs and Replacement.** With each inspection, any damage to structural elements of the basin (pipes, sand filtration, concrete drainage structures) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

#### **Record Keeping**

• **Routine and Storm Event.** Owner will keep a record of both routine and non-routing inspections. Additionally, all maintenance and repairs shall be detailed. This record shall be available for review and inspection by TCEQ upon request.

	For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999	
Ι	Christian Powell Print Name	3
	Chief Compliance Officer Title - Owner/President/Other	,
of	Pedemales Electric Cooperative Corporation/Partnership/Entity Name	3
have authorized	<u>Greg Ulcak, PE</u> Print Name of Agent/Engineer	
of	Civil Land Group, LLC Print Name of Firm	

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

I also understand that:

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

SIGNATURE PAGE:

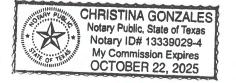
**Applicant's Signature** 

10-10-2024

THE STATE OF TEXOS § County of Blanco

BEFORE ME, the undersigned authority, on this day personally appeared <u>Chistian Bw()</u> known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 10 day of October , 24



Typed or Printed Name of Notarv

MY COMMISSION EXPIRES: October 22,2025

# **Application Fee Form**

Texas Commission on Environmental Quality         Name of Proposed Regulated Entity: PEC La Cima Substation         Regulated Entity Location: 2701 Ranch Road 12, San Marcos, Texas 78666         Name of Customer: Pedernales Electric Cooperative, LLC         Contact Person: Greg Ulcak, PE       Phone: 512-423-1916         Customer Reference Number (if issued):CN CN601327927         Regulated Entity Reference Number (if issued):RN         Austin Regional Office (3373)									
X Hays Travis	W	illiamson							
Bexar  Medina    Comal  Kinney   Application fees must be paid by check, certified check		alde le to the <b>Texas</b>							
Commission on Environmental Quality. Your canceled	-	-							
form must be submitted with your fee payment. This	payment is being submi	itted to:							
X Austin Regional Office TCEQ EPay	San Antonio Regional C	San Antonio Regional Office							
Mailed to: TCEQ - Cashier	Overnight Delivery to: TCEQ - Cashier								
Revenues Section	12100 Park 35 Circle								
Mail Code 214	Building A, 3rd Floor								
P.O. Box 13088	Austin, TX 78753								
Austin, TX 78711-3088	(512)239-0357								
Site Location (Check All That Apply):									
X Recharge Zone Contributing Zon	e 🗌 Transi	tion Zone							
Type of Plan	Size	Fee Due							
Water Pollution Abatement Plan, Contributing Zone									
Plan: One Single Family Residential Dwelling	Acres	\$							
Water Pollution Abatement Plan, Contributing Zone									
Plan: Multiple Single Family Residential and Parks	Acres	\$							
Water Pollution Abatement Plan, Contributing Zone		5 000							
Plan: Non-residential	7.5 Acres	\$ 5,000							
Sewage Collection System	L.F.	\$							
Lift Stations without sewer lines	Acres	\$							
Underground or Aboveground Storage Tank Facility	Tanks	\$							
Piping System(s)(only)	Each	\$							
Exception	Each	\$							
Extension of Time	Each	\$							

Signature: <u>Arey Weak</u> Date: <u>11/14</u>/20

# **Application Fee Schedule**

**Texas Commission on Environmental Quality** 

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

# Water Pollution Abatement Plans and Modifications

## **Contributing Zone Plans and Modifications**

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

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

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

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

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

### **Exception Requests**

Project	Fee
Exception Request	\$500

## **Extension of Time Requests**

Project	Fee
Extension of Time Request	\$150



# **TCEQ Core Data Form**

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

# **SECTION I: General Information**

<b>1. Reason for Submission</b> (If other is checked please desc										
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)										
Renewal (Core Data Form should be submitted with the	e renewal form)	Other								
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in	3. Regulated Entity Referen	ce Number (if issued)							
CN 601327927	Central Registry**	RN								

# **SECTION II: Customer Information**

4. General Customer Information	5. Effective Date for Customer I	nformation Upo	dates (mm/dd/yy)	yy)						
New Customer       Update to Customer Information       Change in Regulated Entity Ownership         Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)										
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State										
(SOS) or Texas Comptroller of Public Accounts (CPA).										
6. Customer Legal Name (If an individua	, print last name first: eg: Doe, John)	<u>lf</u>	<sup>f</sup> new Customer, en	ter previous Customer below:						
Pedernales Electric Cooperative, INC										
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)		9 digits)	<b>10. DUNS Number</b> (if applicable)						
11. Type of Customer:	poration	🗌 Individual		Partnership: 🗌 General 🗌 Limited						
Government: 🗌 City 🗌 County 🔲 Federa	🗌 Local 🔲 State 🗌 Other	Sole Propr	Sole Proprietorship Other:							
12. Number of Employees		1:	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. Plea	ase check one of th	e following						
Owner Operator	Owner & Operator Party VCP/BSA Applicant		Other:							
15. Mailing										
Address:	Charles	710								
City	State	ZIP	ZIP ZIP + 4							
16. Country Mailing Information (if out	side USA) 1	7. E-Mail Addre	ess (if applicable)							
18. Telephone Number	19. Extension or Code	e	20. Fax Nur	nber (if applicable)						

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SE	CTION III: Reg	Julated Entity	' Ir	nfc	orn	nat	ior	<u>1</u>										
21	. General Regulated Entity Ir	formation (If 'New Regulated	d Ent	tity" is	is selec	cted, a	new j	permit	applic	ation i	is al	so rei	uirea	l.)				
	New Regulated Entity	date to Regulated Entity Name	• [	🗌 Up	pdate 1	to Reg	ulated	Entity	Inform	nation	ı							
	e Regulated Entity Name su Inc, LP, or LLC).	mitted may be updated, in	n ord	rder ti	to me	et TCI	EQ Co	re Da	ta Sta	Indari	ds (	rem	oval	of org	aniza	tional e	ending	s such
22	. Regulated Entity Name (Ent	er name of the site where the re	regul	ılated	d actior	on is tal	king pl	ace.)			·							

23. Street Address of the Regulated Entity:	2701 Ranch Road 12							
(No PO Boxes)	City	San Marcos	State	ТХ	ZIP	78666	ZIP + 4	
24. County	Hays				1		<u> </u>	

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

25. Description to									
Physical Location:									
26. Nearest City						State	· · · · · · · · · · · · · · · · · · ·	Nea	rest ZIP Code
							<u> </u>		
Latitude/Longitude are r used to supply coordinat					ta Standaı	rds. (Geoco	ding of the	Physical .	Address may be
27. Latitude (N) In Decim	al:			28. Lor	ngitude (W	/) In Decima	ıl:		
Degrees	Minutes	Se	econds	Degrees	S	Min	utes		Seconds
29. Primary SIC Code       30. Secondary SIC Code       31. Primary NAICS Code       32. Secondary NAICS Code         (4 digits)       (5 or 6 digits)       (5 or 6 digits)       (5 or 6 digits)									
(4 digits)	digits) (4 digits)			(5 or 6 digits) (5 or 6 d			(5 or 6 digit	s)	·
33. What is the Primary I	Business of t	his entity? (Do n	ot repeat the SIC of	r NAICS descrip	tion.)				
Electric Substation									
303 Colorado Street, Suite 2300									
Address:	34. Mailing c/o Bryan Lee								
	City	Austin	State	ТХ	ZIP	78701		ZIP + 4	
35. E-Mail Address:				. <b>I</b>		J	I	<u>énon yr 1, 1, 1, 1, 1, 1, 1, 1</u>	I
36. Telephone Number			37. Extension or	Code	38. Fa	ax Number	(if applicable	:)	
( ) -					( )	) -			

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.

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Dam Safety	Districts	🛛 Edwards Aquifer	Emissions Inventory Air	Industrial Hazardous Waste
3 · · ·	New Source	1	6	
Municipal Solid Waste		OSSF	Petroleum Storage Tank	☐ PWS
	Review Air			
	57.0			
Sludge	Storm Water	🗌 Title V Air	Tires	Used Oil
🗌 Voluntary Cleanup	Wastewater	Wastewater Agriculture	Water Rights	Other:
and the second sec				
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# **SECTION IV: Preparer Information**

40. Name: Civil Design Group (Greg Ulcak, PE)				41. Title:	Authorized Agent
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address
( 512 ) 423-1916	i		( ) -	gulcak@civlr	ldgrp.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.

Name (In Print):     Greg Ulcak, PE     Phone:     (512)	2 ) 423- <b>1916</b>
Signature: Date: 11/1	14 24