CONTRIBUTING ZONE PLAN MODIFICATION

ORIGINAL REGULATED ENTITY NAME "VELSA RANCH" NW CORNER OF PARMER LANE AND KENAI DRIVE CEDAR PARK, WILLIAMSON COUNTY, TEXAS

Prepared For: VLS PROPERTIES, LLC

3109 Kenai Drive, Unit 109 Cedar Park, TX 78613 (512) - 337- 0418

Prepared By:

KIMLEY-HORN AND ASSOCIATES, INC.

10814 Jollyville Rd, Avallon IV, Suite 200 Austin, TX 78759 (512) 418 - 1771

Firm No. 928 KHA Project No. 069274402

Sept 5th, 2024

TABLE OF CONTENTS

Edwards Aquifer Application Cover Page	Section 1
Edwards Aquifer Application Cover Page	TCEQ-20705
MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN FORM	Section 2
Modification of a Previously Approved Contributing Zone Plan Form	
Original Approval Letter and Approved Modification Letters	Attachment A
Narrative of Proposed Modification	Attachment B
Current Site Plan of the Approved Project	Attachment C
CONTRIBUTING ZONE PLAN APPLICATION	
CONTRIBUTING ZONE PLAN APPLICATION	
Road Map	Attachment A
USGS Quadrangle Map	Attachment B
Project Narrative	
Factors Affecting Surface Water Quality	Attachment D
Volume and Character of Stormwater	
Suitability Letter from Authorized Agent	Attachment F
Alternative Secondary Containment Methods	Attachment G
AST Containment Structure Drawings	Attachment H
20% or Less Impervious Cover Waiver	Attachment I
BMPs for Upgradient Stormwater	Attachment J
BMPs for On-site Stormwater	
BMPs for Surface Streams	Attachment L
Construction Plans	Attachment M
Inspection, Maintenance, Repair and Retrofit Plan	Attachment N
Pilot-Scale Field Testing Plan	Attachment O
Measures for Minimizing Surface Stream Contamination	Attachment P
ADDITIONAL FORMS	
TEMPORARY STORMWATER SECTION	
Spill Response	
Potential Sources of Contamination	
Sequence of Major Activities	Attachment C
Temporary Best Management Practices and Measures	
Request to Temporarily Seal A Feature	
Structural Practices	
Drainage Area Map	Attachment G
Temporary Sediment Pond Plan and Calculation	Attachment H
Inspection and Maintenance for BMPs	Attachment I
Schedule of Interim And Permanent Soil Stabilization	
AGENT AUTHORIZATION FORM	
APPLICATION FEE FORM	
Check Payable to the "Texas Commission on Environmental Quality"	
Core Data Form	

Kimley **»Horn**

SECTION 1: EDWARDS AQUIFER APPLICATION COVER PAGE

Texas Commission on Environmental Quality Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name:				2. Regulated Entity No.: RN111283388					
Velsa Ranch						2. Regulated Entry No.: RNT1203500			
3. Customer Name: VLS Properties, LLC				4. Customer No.: CN605903327					
5. Project Type: (Please circle/check one)	New Modification			Extension Exception		Exception			
6. Plan Type: (Please circle/check one)	WPAP	🖾 CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Resider	ntial	Non-residentia		al	8. Sit	e (acres):	17.40	
9. Application Fee:	\$6,500		10. Permanent		nt BMP(s): Batch Detention		Batch Detenti	on	
11. SCS (Linear Ft.):	0		12. AST/UST (N			No. Tanks): 0			
13. County:	William	nson	14. V	Vater	shed:		Turkey Creek – Brushy Creek		– Brushy Creek

Application Distribution

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

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

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

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

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

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

Ryan Schubert, P.E.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

09/05/2024

Date

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

SECTION 2: MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN

Modification of a Previously Approved Contributing Zone Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), Effective June 1, 1999

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

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

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Modification of a Previously Approved Contributing Zone Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: <u>VLS Properties LLC</u>

Date: <u>VLS Properties LLC</u>

Signature of Customer/Agent:

Project Information

 Current Regulated Entity Name: <u>Velsa Ranch</u> Original Regulated Entity Name: <u>Velsa Ranch</u> Assigned Regulated Entity Number(s) (RN): <u>RN111283388</u> Edwards Aquifer Protection Program ID Number(s): _____

X The applicant has not changed and the Customer Number (CN) is: $\underline{CN605903327}$

- The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
- 2. X Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached.
- 3. A modification of a previously approved plan is requested for (check all that apply):

structure(s), i berms, silt fer Any change ir originally app A change that Edwards Aqui	ncluding but not limited to ten nces, and diversionary structur in the nature or character of the roved; t would significantly impact the ifer and hydrologically connect ment of land previously identifie	e regulated activity from that which was e ability to prevent pollution of the
plan has been mo	osed Modifications (select plan odified more than once, copy tl omplete the information for ea	
	Velsa Ranch	
CZP Modification	Approved Project	Proposed Modification
Summary		
Acres	17.40	17.40
Type of Development	Commercial	Commercial
Number of Residential	0	
Lots		
Impervious Cover (acres)	6.55	6.55
Impervious Cover (%)	37.6%	37.6%
Permanent BMPs	Partial Filtration and Sedimentation	Batch Detention System
Other		

AST Modification Approved Project
Summary
Number of ASTs _____
Other _____
UST Modification Approved Project
Summary

5. X Attachment B: Narrative of Proposed Modification. A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved,

Number of USTs

Other

Proposed Modification

Proposed Modification

including previous modifications, and how this proposed modification will change the approved plan.

- 6. X Attachment C: Current Site Plan of the Approved Project. A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
 The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
 The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
 The approved construction has commenced and has been completed. Attachment C illustrates that the site was not constructed as approved.
 X The approved construction has commenced and has not been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
 Attachment C illustrates that, thus far, the site was not constructed as approved.
- 7. <u>x</u> Acreage has not been added to or removed from the approved plan.
 Acreage has been added to or removed from the approved plan and is discussed in *Attachment B: Narrative of Proposed Modification*.
- 8. 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.

Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 25, 2022

Mr. Venkat Gudapuri VLS Properties, LLC 3109 Kenai Drive, STE 109 Cedar Park, Texas 78613-2540

Re: Edwards Aquifer, Williamson County

NAME OF PROJECT: Velsa Ranch; Located 0.1 miles NW of Kenai Dr. and W Parmer Ln.; Cedar Park, Texas

TYPE OF PLAN: Request for Approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer

Regulated Entity No. RN111283388; Additional ID No. 11002878

Dear Mr. Gudapuri:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP application for the above-referenced project submitted to the Austin Regional Office by Kimley-Horn and Associates, Inc. on behalf of VLS Properties, LLC on January 11, 2022. Final review of the CZP was completed after additional material was received on March 21, 2022. As presented to the TCEO, the Temporary and Permanent Best Management Practices (BMPs) were selected, and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed, and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 17.40 acres and will include the construction of eight buildings with associated parking, drives, sidewalks, utilities, and drainage improvements on Lot 1 of the development and the construction of a water quality pond and detention pond on Lot 4 with associated access drive. The impervious cover will be 6.55 acres (37.6 percent). Project wastewater will be disposed of by conveyance to the existing Brushy Creek Wastewater Treatment Plant owned by the City of Cedar Park.

TCEQ Region 11 · P.O. Box 13087 · Austin, Texas 78711-3087 · 512-339-2929 · Fax 512-339-3795

Mr. Venkat Gudapuri Page 2 March 25, 2022

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, one partial sedimentation/ filtration basin, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 5,700 pounds of TSS generated from the 6.55 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

SPECIAL CONDITIONS

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

STANDARD CONDITIONS

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

Prior to Commencement of Construction:

- 4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
- 7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges

Mr. Venkat Gudapuri Page 3 March 25, 2022

from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

- 8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
- 9. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. 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).
- 10. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 11. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 12. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.
- 13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 5, above.

After Completion of Construction:

- 14. Owners of permanent BMPs and measures must insure that the 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 Austin Regional Office within 30 days of site completion.
- 15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
- 16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the

Mr. Venkat Gudapuri Page 4 March 25, 2022

new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.

- 17. A Contributing Zone Plan approval or extension will expire, and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
- 18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact the Edwards Aquifer Protection Program of the Austin Regional Office at 512-339-2929.

Sincerely,

Lillian Butles

Lillian Butler, Section Manager Edwards Aquifer Protection Program Texas Commission on Environmental Quality

LIB/jv

Enclosures: Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Michael Doggett, P.E., Kimley-Horn and Associates, Inc.

PROJECT NARRATIVE

Velsa Ranch located on the NWQ of Parmer Lane and Kenai Drive in Cedar Park, Texas consists of 4 lots to be developed in two phases. The first phase consists of eight buildings with local business, restaurant, and office space on Lot 1. The water quality and detention pond located on Lot 4 will be constructed with the first phase. The ponds will be sized to serve all developable portions of Lots 1-4. The entire site is located within the City of Cedar Park City Limits and Williamson County. A Contributing Zone Plan was prepared for this site.

The plan proposes a detention pond on Lot 4 located within a drainage easement with the drainage piped from Lots 1-3 to the detention pond. A batch detention pond will be utilized to address water quality for both phases. The plans for this water quality pond can be located within the Civil Plans, located in Appendix M of this application. Future development within Lots 2-4 will also be served by this detention pond in the future. The water quality pond will be oversized to be able to serve future development in Phase II (Lots 2-4). This Contributing Zone Plan must be modified as development occurs within Lots 2-4.

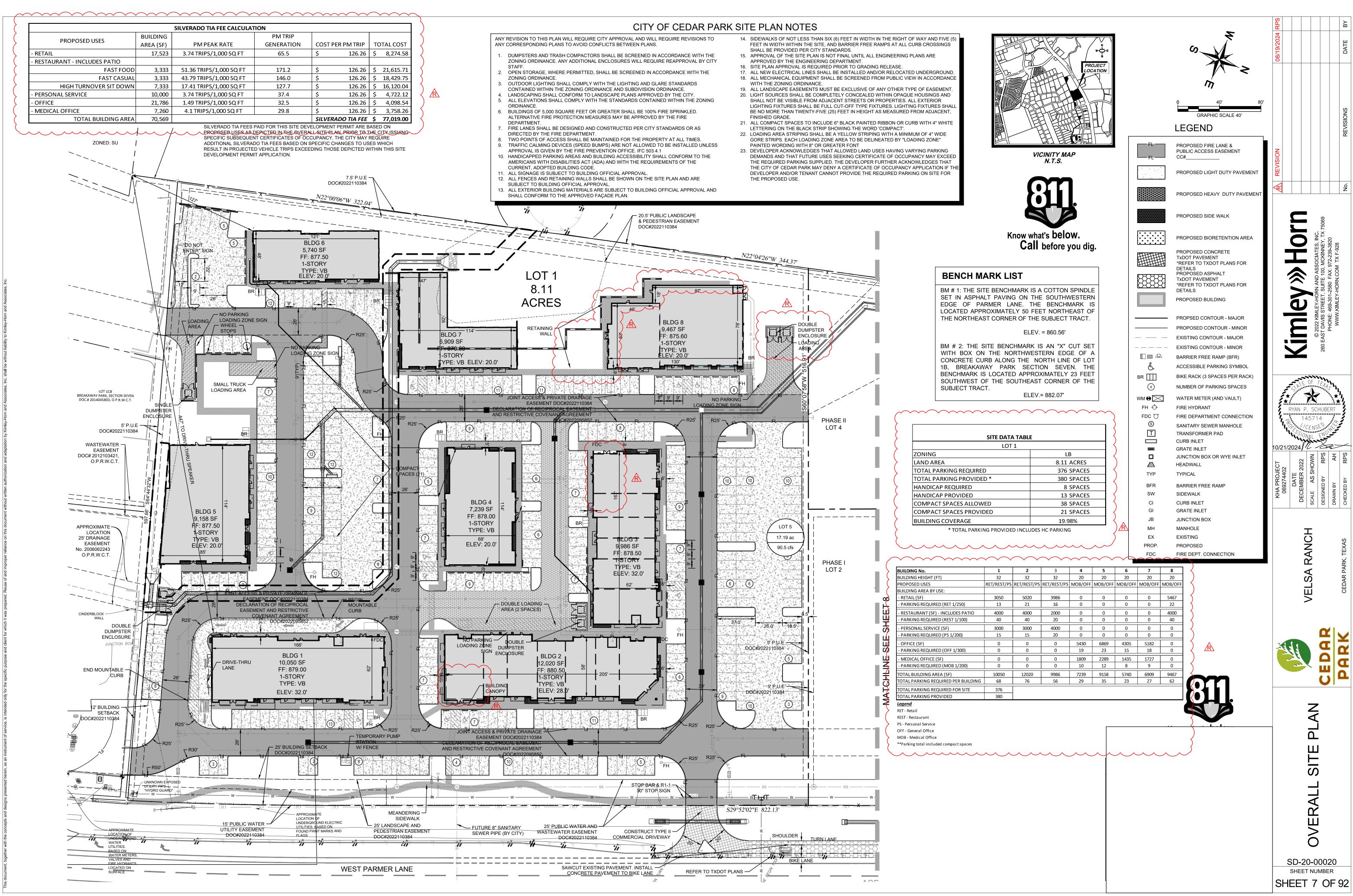
The plan proposes additional impervious cover in the TxDOT right of way as well as a maintenance path on the west side of the site. The Erosion Control Plan Sheet in the civil plans shows the limits of disturbance to include the proposed construction limits within the TxDOT right-of-way of Parmer Lane. A deceleration lane and a driveway with right in, right out access, is proposed in the TxDOT right-of-way of Parmer Lane. The TSS from the impervious cover in the TxDOT ROW and maintenance path will be treated in the water quality pond on Lot 4.

A Water Quality Drainage Area Map is provided within the Civil Plans. This plan shows there are two Offsite Water Quality ponds that discharge to this parcel. These outfalls are being collected and routed around the subject property to avoid combining with untreated runoff that is onsite. Areas A1 and A2 shown on this plan are the captured portions of the site while Areas B1, B2, UC1 and UC2 are the uncaptured portions of the site in this CZP. The total acreage for all areas is 17.40 acres which is included in the plan. The Treatment Summary Table shown on this sheet indicates 6.13 acres of impervious surface area captured and 0.42 acres of impervious surface that is not captured within the limits of the plan. Using these values, this equates to 5,700 lbs of required treatment. This also equates to an on-site water quality volume required of 45,032 cubic feet of storage.

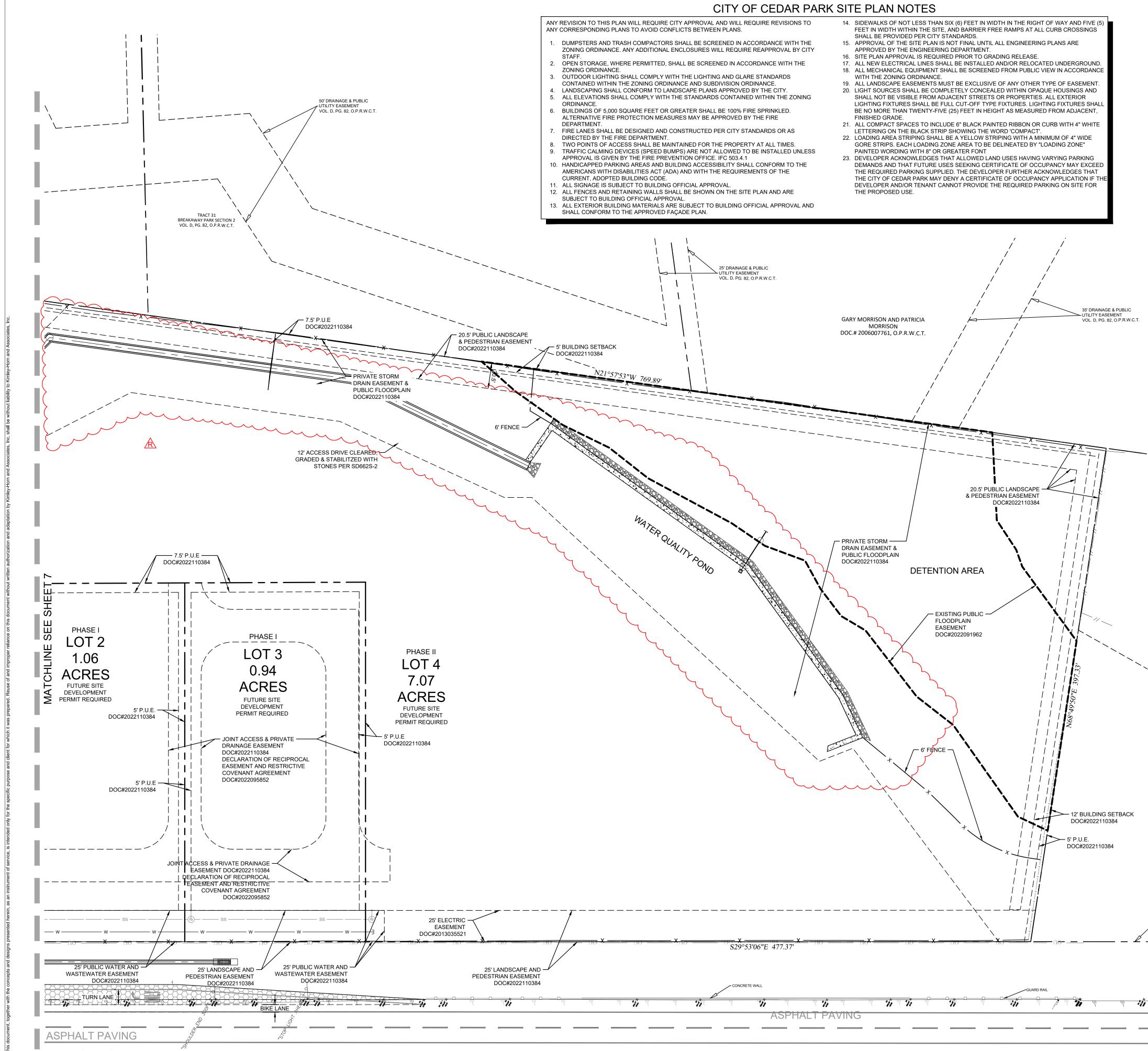
The site will be served by an offsite extension of an existing 8" water line along Kenai Drive. The offsite improvements consist of extending an 8" water line along Parmer Lane to the site. The sewer line will be installed in two phases. In Phase I, a force main will be installed starting at the western property line and will be pumped through a temporary pump station to an existing stub out for a force main at the adjacent properties to the south. Phase 2 will connect the sewer system to an 8" sewer line under Parmer Lane that will be installed by the City in the future.

This site is located in the Turkey Creek- Bushy Creek Watershed and entirely in the Edwards Aquifer Contributing Zone as defined by maps prepared by the Texas Commission on Environmental Quality.

No portion of the property is within the limits of the 100-year floodplain as shown on FIRM Panel No. 48491C0470F, dated December 20, 2019.



SAVED SAVED TED BY PATH

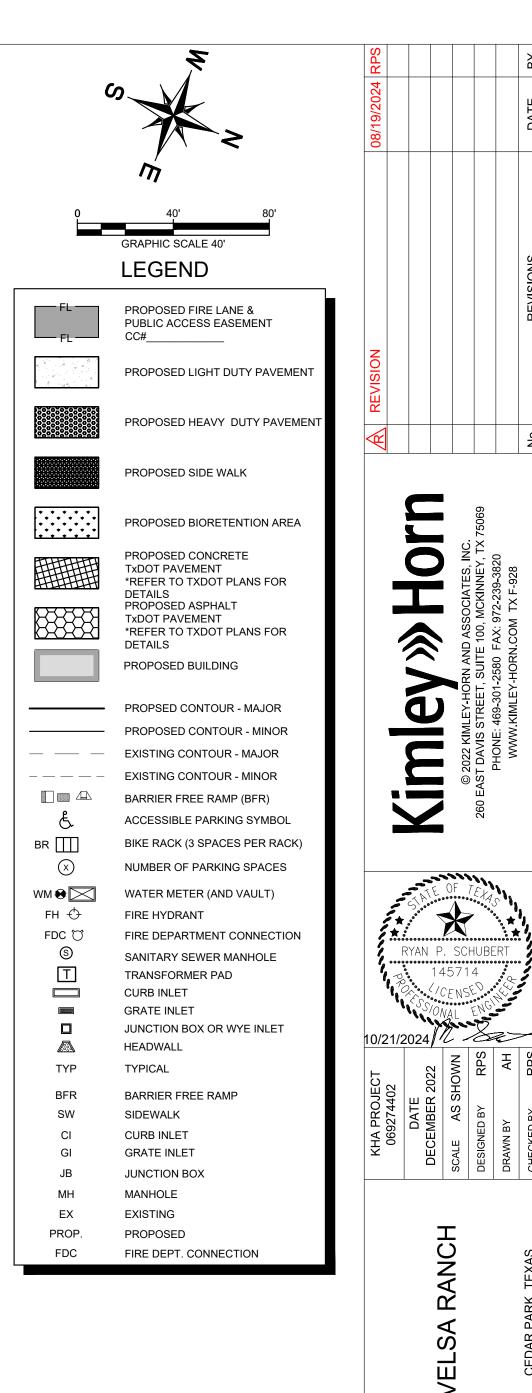


xStrm : xSurv : xU 10/21/2024 6:44 PM SCHUBERT, RYAN K:AUS_CIVIL\06927 SAVED SAVED TTED BY PATH











I

D

U

AN

Ц

Ш Н

S

_

A

R

 \leq

Ο

SD-20-00020

SHEET NUMBER

SHEET 8 OF 92

BENCH MARK LIST

BM # 1: THE SITE BENCHMARK IS A COTTON SPINDLE SET IN ASPHALT PAVING ON THE SOUTHWESTERN EDGE OF PARMER LANE. THE BENCHMARK IS LOCATED APPROXIMATELY 50 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE SUBJECT TRACT.

ELEV. = 860.56'

BM # 2: THE SITE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE NORTHWESTERN EDGE OF A CONCRETE CURB ALONG THE NORTH LINE OF LOT 1B, BREAKAWAY PARK SECTION SEVEN. THE BENCHMARK IS LOCATED APPROXIMATELY 23 FEET SOUTHWEST OF THE SOUTHEAST CORNER OF THE SUBJECT TRACT.

ELEV = 882.07'

Kimley **»Horn**

SECTION 3: CONTRIBUTING ZONE PLAN APPLICATION

Contributing Zone Plan Application

Texas Commission on Environmental Quality for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

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

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

Signature

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

Print Name of Customer/Agent: <u>_Ryan Schubert, P.E.</u>_____

Date: _09/05/2024_____

Signature of Customer/Agent:

Regulated Entity Name: _Velsa Ranch___

Project Information

- 1. County: <u>Williamson</u>
- 2. Stream Basin: _<u>Turkey Creek Brushy Creek</u>____
- 3. Groundwater Conservation District (if applicable): <u>N/A</u>
- 4. Customer (Applicant):

Contact Person: <u>Venkat Gudapuri</u> Entity: <u>VLS Properties, LLC</u> Mailing Address: <u>3109 Kenai Drive, Unit 109</u> City, State: <u>Cedar Park, TX</u> Telephone: <u>(512) - 337- 0418</u> Email Address: <u>vgudapuri@gmail.com</u>

Zip: <u>78613</u> Fax: _____ 5. Agent/Representative (If any):

 Contact Person: __Ryan Schubert, P.E.

 Entity: __Kimley-Horn and Associates, Inc._____

 Mailing Address: __10814 Jollyville Rd, Avallon IV, Suite 200_

 City, State: __Austin, TX______
 Zip: _78759_____

 Telephone: __(512) 418 - 1771______
 Fax: _______

 Email Address: __ryan.schubert@kimley-horn.com____

- 6. Project Location:
 - The project site is located inside the city limits of <u>Cedar Park</u>.
 - The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of ______.
 - The project site is not located within any city's limits or ETJ.
- The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.
 NW Corner of Parmer Lane and Kenai Drive______
- 8. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.
- 9. Xttachment B USGS Quadrangle Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:

Project site boundaries.USGS Quadrangle Name(s).

- 10. Attachment C Project Narrative. A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:
 - \boxtimes Area of the site
 - Offsite areas
 - Impervious cover
 - Permanent BMP(s)
 - \boxtimes Proposed site use
 - \boxtimes Site history
 - Previous development
 - \boxtimes Area(s) to be demolished
- 11. Existing project site conditions are noted below:
 - Existing commercial site
 - Existing industrial site

TCEQ-10257 (Rev. 02-11-15)

	 Existing residential site Existing paved and/or unpaved roads Undeveloped (Cleared) Undeveloped (Undisturbed/Not cleared) Other:
12.	The type of project is:
	 Residential: # of Lots: Residential: # of Living Unit Equivalents: _ Commercial Industrial Other:
13.	Total project area (size of site): <u>17.40</u> Acres
	Total disturbed area: <u>17.40</u> Acres
14.	Estimated projected population:n/a
15.	The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

Impervious Cover of			
Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	69,576	÷ 43,560 =	1.60
Parking	197,446	÷ 43,560 =	4.53
Other paved surfaces	18,295	÷ 43,560 =	0.42
Total Impervious	285,317		6.55
Cover		÷ 43,560 =	

Total Impervious Cover <u>6.55</u> ÷ Total Acreage <u>17.40</u> X 100 = 37.6% Impervious Cover

- 16. Attachment D Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.
- 17. 🛛 Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

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

N/A

18.	Type of project:
19.	 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. Type of pavement or road surface to be used:
	Concrete Asphalt concrete pavement Other:
20.	Right of Way (R.O.W.):
	Length o f R .O.W.:feet.
	Width o f R .O.W.:feet. L x W =Ft ² ÷ 43,560 Ft ² /Acre =acres.
21.	Pavement Area:
	Length o f R .O.W.:feet.
	Width o f R .O.W.:feet. L x W = $Ft^2 \div 43,560 Ft^2/Acre =acres.$ Pavement areaacres \div R .O.W. a reaacres x 100 =% impervious cover.
22.	 A rest stop will be included in this project. A rest stop will not be included in this project.
23.	Maintenance and repair of existing roadways that do not require approval from the

TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

25. Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC§213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

🖂 N/A

26. Wastewater will be disposed of by:

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

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

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

 \boxtimes Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the <u>Brushy Creek WWTP</u> (name) Treatment Plant. The treatment facility is:

\boxtimes	Existing.
	Proposed.
	N/A

Permanent Aboveground Storage Tanks (ASTs) ≥ 500 Gallons

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

🖂 N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
AST NUMBER	512e (Galions)	5101 80	
1			
2			
3			
4			
5			
	•	Total	x 1 5 = Gallons

Total x 1.5 = _____ Gallons

28. The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than

one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

Attachment G - Alternative Secondary Containment Methods. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

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

Table 3 - Second	dary Containment			
Length (L)(Ft.)	Width(W)(Ft.)	Height (H)(Ft.)	L x W x H = (Ft3)	Gallons
Total: Gallons				

Table 3 - Secondary Containment

30. Piping:

All piping, hoses, and dispensers will be located inside the containment structure.

Some of the piping to dispensers or equipment will extend outside the containment structure.

The piping will be aboveground

The piping will be underground

- 31. The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of:
- 32. Attachment H AST Containment Structure Drawings. A scaled drawing of the containment structure is attached that shows the following:

Interior dimensions (length, width, depth and wall and floor thickness).

Internal drainage to a point convenient for the collection of any spillage.

Tanks clearly labeled

Piping clearly labeled

Dispenser clearly labeled

33. Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.

☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

Site Plan Requirements

Items 34 - 46 must be included on the Site Plan.

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

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

- 35. 100-year floodplain boundaries:
 - Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
 - No part of the project site is located within the 100-year floodplain. The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): <u>48491C0470F Dated December 20, 2019</u>
- 36. The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
 - The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
- 37. \square A drainage plan showing all paths of drainage from the site to surface streams.
- 38. 🖂 The drainage patterns and approximate slopes anticipated after major grading activities.
- 39. \boxtimes Areas of soil disturbance and areas which will not be disturbed.
- 40. 🖂 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 41. \boxtimes Locations where soil stabilization practices are expected to occur.
- 42. Surface waters (including wetlands).
 - N/A
- 43. Locations where stormwater discharges to surface water.

 \square There will be no discharges to surface water.

44. Temporary aboveground storage tank facilities.

Temporary aboveground storage tank facilities will not be located on this site.

45. Permanent aboveground storage tank facilities.

 \boxtimes Permanent above ground storage tank facilities will not be located on this site.

46. \boxtimes Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

47. Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.

N/A

48. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.

The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site. (Phase 1)

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

N/A

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

🗌 N/A

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

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

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

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

51. The executive director may waive the requirement for other permanent BMPs for 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 I 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
- The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- The site will not be used for multi-family residential developments, schools, or small business sites.
- 52. 🛛 Attachment J BMPs for Upgradient Stormwater.
 - A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
 - No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
 - Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
- 53. X Attachment K BMPs for On-site Stormwater.
 - A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
 - Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
- 54. Attachment L BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.
 - N/A
- 55. Attachment M Construction Plans. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

N/A

- 56. Attachment N Inspection, Maintenance, Repair and Retrofit Plan. A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:
 Prepared and certified by the engineer designing the permanent BMPs and measures
 Signed by the owner or responsible party
 Outlines specific procedures for documenting inspections, maintenance, repairs,
 - and, if necessary, retrofit.
 - Contains a discussion of record keeping procedures
 - N/A
- 57. Attachment O Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

🖂 N/A

58. Attachment P - Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that result in water quality degradation.

N/A

Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

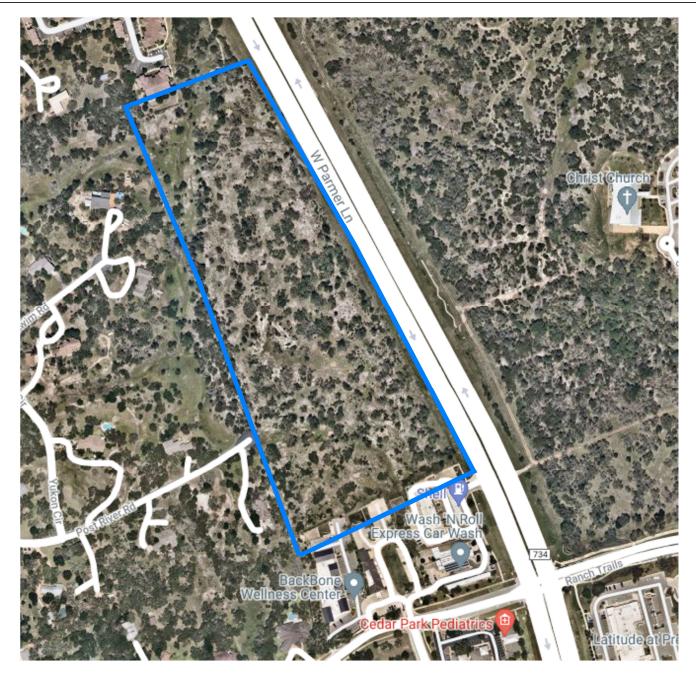
- 59. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or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

Administrative Information

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

069274402 - Velsa Ranch Contributing Zone Plan Modification

ROAD MAP



DIRECTIONS FROM TCEQ HEADQUARTERS TO PROJECT SITE:

- GET ON I-35 S FRONTAGE RD FROM PARK 35 CIR 1.
- 2. TURN RIGHT ONTO COVINGTON DRIVE EAST\
- TURN RIGHT ON TO HORNSBY ST WHICH TURNS INTO WEST CADDO ST 3.
- TURN RIGHT ONTO N LAMAR BLVD 4.
- 5. TURN LEFT ONTO WEST PARMER LANE
- 6. DESTINATION WILL BE ON THE LEFT

LEGEND	
	CONSTRUCTION SITE, 7.4 ACRES

Kimley » Horn 0 2020 KINEY HORN AND ASSOCIATES INC PROVIDENCE AND AND ASSOCIATES AND ASSOCIATES AND AND AND ASSOCIAT

APPENDIX	DATE	08/20/2021
A	DESIGNED BY	SLT
	DRAWN BY	SLT
	CHECKED BY	MTD
	KHA PROJECT NO.	069274402



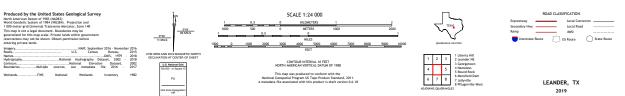
USGS QUADRANGLE MAP



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







Zone De



PROJECT NARRATIVE

Velsa Ranch located on the NWQ of Parmer Lane and Kenai Drive in Cedar Park, Texas currently consists of 4 lots to be developed in two phases. The first phase consists of eight buildings with local business, restaurant, and office space on Lot 1. The water quality and detention pond located on Lot 4 will be constructed with the first phase. The ponds will be sized to serve all developable portions of Lots 1-4. The entire site is located within the City of Cedar Park City Limits and Williamson County. A Contributing Zone Plan was prepared for this site (Regulated Entity No. RN111283388; Additional ID No. 11002878).

The plan proposes a detention pond on Lot 4 located within a drainage easement with the drainage piped from Lots 1-3 to the detention pond. A partial sedimentation and filtration basin has been previously approved as a water quality BMP. This plan is being modified to remove the partial sedimentation and filtration basin and replace it with a batch detention pond that will be utilized to address water quality for both phases. Additionally, a modification is being made to the storm water conveyance system that will change a 5x4 box culvert into a 5x4 open flow channel. No other modifications are being made at this time. The plans for this water quality pond can be located within the Civil Plans, located in Appendix M of this application. Future development within Lots 2-4 will also be served by this detention pond in the future. The water quality pond will be oversized to be able to serve future development in Phase II (Lots 2-4). This Contributing Zone Plan must be modified as development occurs within Lots 2-4.

The plan proposes additional impervious cover in the TxDOT right of way as well as a maintenance path on the west side of the site. The Erosion Control Plan Sheet in the civil plans shows the limits of disturbance to include the proposed construction limits within the TxDOT right-of-way of Parmer Lane. A deceleration lane and a driveway with right in, right out access, is proposed in the TxDOT right-of-way of Parmer Lane. The TSS from the impervious cover in the TxDOT ROW and maintenance path will be treated in the water quality pond on Lot 4.

A Water Quality Drainage Area Map is provided within the Civil Plans. This plan shows there are two Offsite Water Quality ponds that discharge to this parcel. These outfalls are being collected and routed around the subject property to avoid combining with untreated runoff that is onsite. Areas A1 and A2 shown on this plan are the captured portions of the site while Areas B1, B2, UC1 and UC2 are the uncaptured portions of the site in this CZP. The total acreage for all areas is 17.40 acres which is included in the plan. The Treatment Summary Table shown on this sheet indicates 6.13 acres of impervious surface area captured and 0.42 acres of impervious surface that is not captured within the limits of the plan. Using these values, this equates to 5,700 lbs of required treatment. This also equates to an on-site water quality volume required of 45,032 cubic feet of storage.

The site will be served by an offsite extension of an existing 8" water line along Kenai Drive. The offsite improvements consist of extending an 8" water line along Parmer Lane to the site. The sewer line will be installed in two phases. In Phase I, a force main will be installed starting at the western property line and will be pumped through a temporary pump station to an existing stub out for a force main at the adjacent properties to the south. Phase 2 will connect the sewer system to an 8" sewer line under Parmer Lane that will be installed by the City in the future.

This site is located in the Turkey Creek- Bushy Creek Watershed and entirely in the Edwards Aquifer Contributing Zone as defined by maps prepared by the Texas Commission on Environmental Quality.

No portion of the property is within the limits of the 100-year floodplain as shown on FIRM Panel No. 48491C0470F, dated December 20, 2019.

FACTORS AFFECTING SURFACE WATER QUALITY ROAD MAP

Surface water quality can be affected by disturbance during construction and by development after construction. Soil disturbance from clearing and grubbing and cut / fill operations can lead to discharge of sediment unless adequate temporary erosion control measures are in place. For this project, the use of silt fence and rock berms will prevent sediment from leaving the site. Siltation collected by the control measures will be cleaned from fences, berms, etc. on a routine schedule.

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 1 (page 3) of the TCEQ's Small-Business Handbook for Spill Response (RG-285, June 1997), the contractor is required to clean up the spill and notify the TCEQ as required in RG-285. 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 Environmental Response Hotline or (512) 463-7727, the TCEQ Spill Reporting Hotline, which is also answered 24 hours a day.

After construction is complete, impervious cover for the tract of land is the major reason for degradation of water quality. Impervious cover includes the building foundation, parking lot pavement and concrete sidewalks. Oil and fuel discharge from vehicles is anticipated. A batch detention pond will mitigate these factors.

VOLUME AND CHARACTER OF STORMWATER

On-Site Drainage

The onsite drainage on Lots 1-4 will sheet flow through a storm pipe system and into a batch detention pond located on Lot 4. After the filtration and sedimentation pond, the runoff will then be routed to the detention pond located on Lot 4. Detention will also be provided for the future development within Lots 2-4.

Calculations for the water quality surface area are included in the Civil Plans.

SUITABILITY LETTER FROM AUTHORIZED AGENT

ALTERNATIVE SECONDARY CONTAINMENT STRUCTURE DESIGN ROAD MAP

AST CONTAINMENT STRUCTURE DRAWINGS

20% OR LESS IMPERVIOUS COVER WAIVER

BMPs FOR UPGRADIENT STORMWATER

Two permanent water quality ponds are provided for the developments upstream (south) of this proposed development. These are shown on the Water Quality Drainage Area Map in the Civil Plans. These ponds are being maintained and managed by others.

BMPs FOR ON-SITE STORMWATER

A batch detention pond will be utilized on the site. The size of the pond and each component within the pond have been calculated based on the existing grades on the site as well as the total drainage area the pond will treat.

Silt fence will be utilized around the site during construction to avoid additional erosion from the site.

Inlet protection covers will be utilized once the storm infrastructure has been constructed. This will aid in avoiding additional sediment from running through the storm system.

A temporary sedimentation basin is also designed to be provided during the early phases of construction since there are more than 10 acres of land disturbance proposed. These plans and calculations can be found in the Erosion Control Plans in the Civil Plans.

BMPs FOR SURFACE STREAMS

CONSTRUCTION PLANS

PROJECT DESCRIPTION

THE PROPOSED DEVELOPMENT CONSISTS OF RETAIL, RESTAURANT PERSONAL SERVICES, MEDICAL OFFICE AND OFFICE USE. THE SITE CONSISTS OF 8 BUILDINGS RANGING IN SIZE FROM 6,000 SQ FT TO 12,000 SQ FT.

LOT 1 SITE ACREAGE: 353,213 SQ FT / 8.11 AC

TOTAL SITE IMPERVIOUS COVER: 267,261 SF/ 6.135 AC

LAND USE SUMMARY

ZONING: LOCAL BUSINESS (LB)

LEGAL DESCRIPTION: LOT 1, BLOCK A OF THE VELSA RANCH SUBDIVISION AS RECORDED IN DOCUMENT NUMBER 2022110384

WATERSHED: TURKEY CREEK - BUSHY CREEK. LOCATED IN EDWARDS AQUIFER CONTRIBUTING ZONE

SUB WATERSHED: SOUTH BUSHY CREEK - BUSHY CREEK

SITE ADDRESS: 12301 PARMER LANE, CEDAR PARK, TX 78613

ENGINEER'S STATEMENT: ALL RESPONSIBILITY FOR ACCURACY OF THESE PLANS REMAIN WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF CEDAR PARK MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

FEMA STATEMENT: THIS PROPERTY LIES WITHIN ZONE X OF THE FLOOD INSURANCE RATE MAP FOR WILLIAMSON COUNTY, TEXAS AND INCORPORATED AREAS, MAP NO, 48491C0470F, EFFECTIVE ON 12/20/2019, VIA SCALE MAP LOCATION AND GRAPHIC PLOTTING.

CITY OF CEDAR PARK GPS MONUMENT

GPS MONUMENT NO. 20 HORIZONTAL DATUM: NAD 83 TEXAS CENTRAL

NORTHING: 10163340.92

EASTING: 3102216.78 LATITUDE: 30°-31'-24.0520"

LONGITUDE: 97°-46'-27.7044"

DESCRIPTION OF MONUMENT: 3" Brass disk in concrete. Standing on east ROW of W. Parmer Lane, north of Ranch Trails, looking east at entrance to The Ranch at Brushy Creek subdivision.

PROJECT NOTE

DEVELOPER ACKNOWLEDGES THAT THE SILVERADO TIA FEE IS BASED ON THE USES PROPOSED WITH THIS SITE DEVELOPMENT PLAN. ACTUAL PROPOSED USES/TENANTS MAY CHANGE THE RATIO OF USES PROPOSED WITHIN THIS SITE. THEREFORE, THE SILVERADO TIA FEE MAY CHANGE AS THE SITE DEVELOPS AND TENANTS MOVE IN. THE CITY MAY REQUIRE ADDITIONAL SILVERADO TIA FEES TO BE PAID IF THE DEVELOPMENT SERVICES COMMITTEE DETERMINES THAT HIGHER TRIP GENERATING USES HAVE BEEN PROPOSED THAN WHAT IS SHOWN WITHIN THESE PLANS. ADDITIONAL SILVERADO TIA FEES MAY BE WARRANTED AND REQUIRED TO BE PAID TO THE CITY PRIOR TO ALL REQUESTS FOR CERTIFICATE OF OCCUPANCY BEING ISSUED BY THE CITY FOR THIS DEVELOPMENT

PLANS SUBMITTAL/REVIEW LOG

CITY SUBMITTAL
CITY RESUBMITTAL
CITY RESUBMITTAL
CITY RESUBMITTAL
TCEQ RESUBMITTAL
TCEQ RESUBMITTAL
CITY RESUBMITTAL
TCEQ RESUBMITTAL
TCEQ RESUBMITTAL
CITY RESUBMITTAL
PLANS A, REVISION 1
PLANS B, REVISION 1
PLANS B, REVISION 2
REVISION SUBMITTAL

10/26/2020 01/18/2021 03/22/2021 05/03/2021 08/20/2021 09/13/2021 10/25/2021 01/05/2022 03/18/2022 05/09/2022 10/03/2022 10/17/2022 11/07/2022 12/05/2022 02/05/2024 04/01/2024 05/01/2024

08/19/2024



Reviewed for Code Compliance Signature required from all Departments

Addressing	Date
Landscape Planner	Date
Fire Prevention	Date
Industrial Pretreatment	Date
Engineering Services	Date
Planning	Date

Site Development Permit Number _____SD-20-00020

ENGINEER:

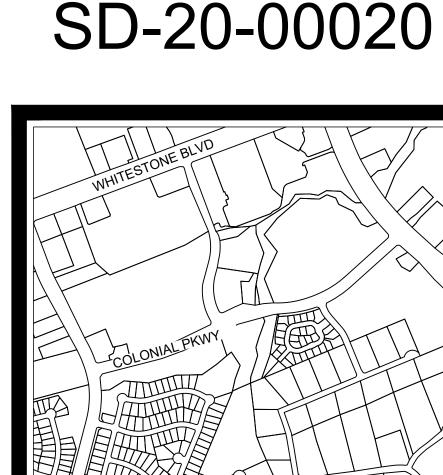
Kimley-Horn and Associates, Inc. 260 East Davis Street, Suite 100 McKinney, Texas 75069 Tel. No. (469) 301-2580 Contact: Michael T. Doggett, P.E.

PREPARED BY: **Kimley**»Horn

ARCHITECT MAT Studios 14618 Mansfield Dam Ct 19 Austin, TX 78734

DEVELOPER:

VLS Properties 3109 Kenai Drive, Unit 109 Cedar Park, TX 78613 Phone: (512) 337-0418 Contact: Venkat Gudapuri



FOR

IN

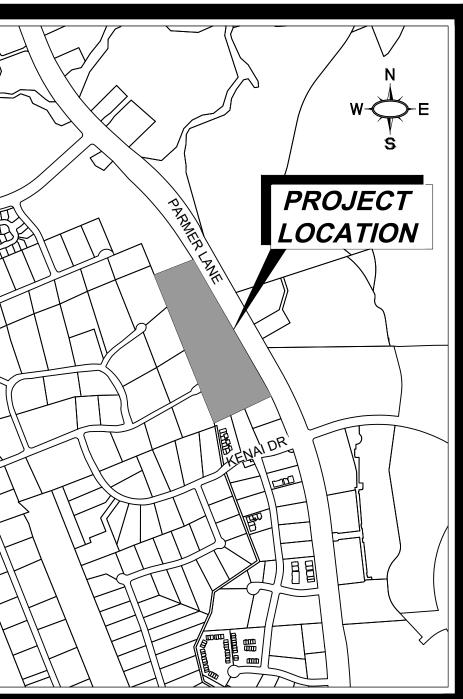
Firm Registration No. F-928 260 East Davis Street, Suite 100 McKinney, Texas 75069 Tel. No. (469) 301-2580

Phone: (469) 951-0614 Contact: Monika Arora

CONSTRUCTION PLANS

12301 PARMER LN CEDAR PARK, TX 78613 **VELSA RANCH** BLOCK A, LOT 1

THE CITY OF CEDAR PARK WILLIAMSON COUNTY, TEXAS CITY PROJECT NO.



VICINITY MAP *N.T.S.*

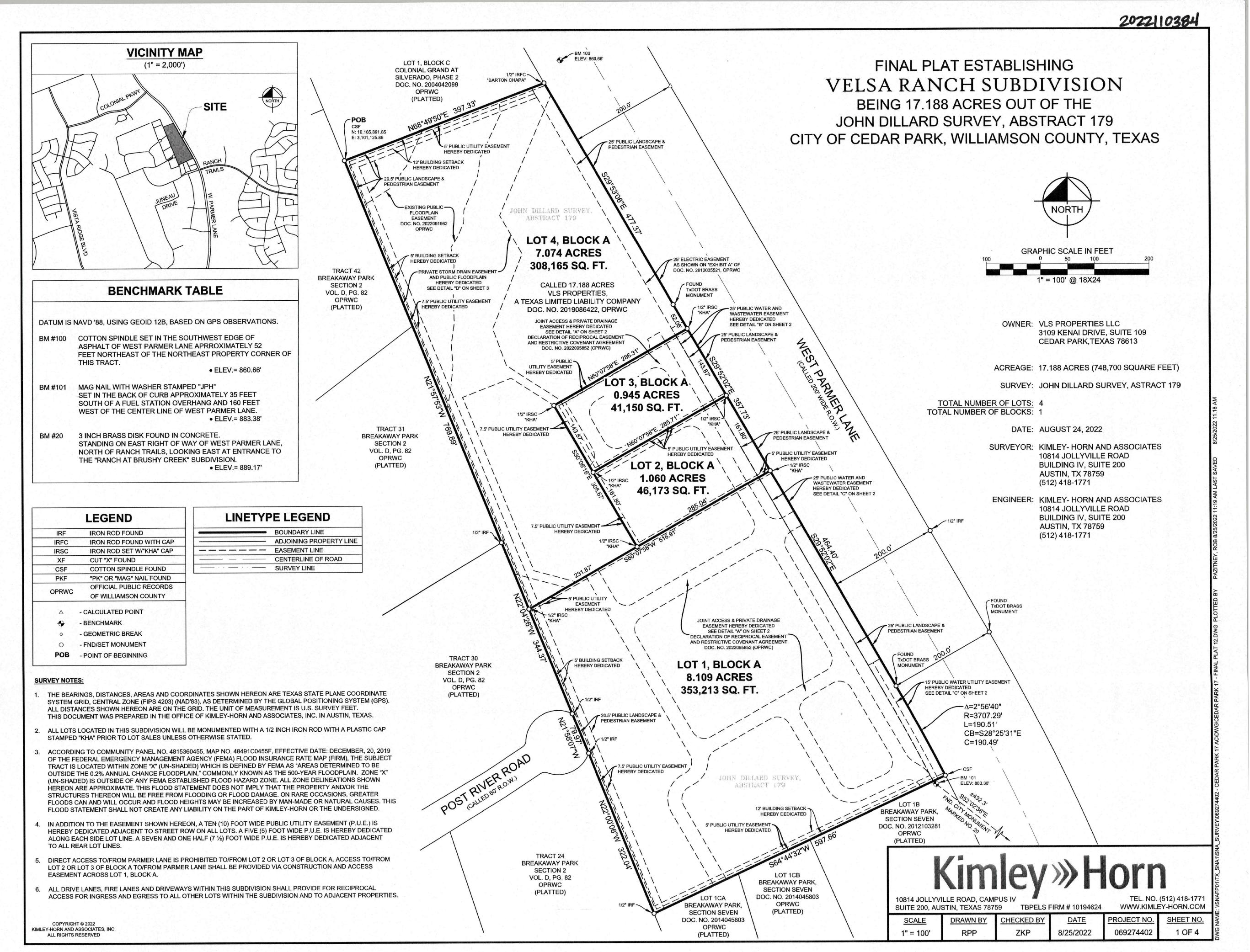
AUGUST 2024

		Sheet List Table								
Shee	et Number	Sheet Title								
		COVER SHEET								
	2	PLAT								
	3	PLAT								
	4	PLAT			÷	REVISI	ONS/CORREC	TIONS		
	5	PLAT				EVISE (R)	TOTAL NO.	NET CHANGE	TOTAL SITE	CITY OF CEDAR
	6	EXISTING CONDITIONS AND DEMOLITION PLAN	<u>NO.</u>	DESCRIPTION	N -	<u>VOID (V)</u> ADD (A)	SHEETS IN	IMP. COVER	IMP. COVER	<u>PARK</u> APPROVAL
Ŕ	7	OVERALL SITE PLAN		UPDATED UTILI		HEET NO.'S	<u>PLAN SET</u>	<u>(SQ. FT.)</u>	(SQ. FT.)/% 296275 SQ. FT.	<u>DATE</u>
Ŕ	8	OVERALL SITE PLAN	1	AND BUILDING 2,	,3, <mark>&</mark> 8	INDEX	92	+ 585 SQ. FT.	(76%)	
	9	CITY OF CEDAR PARK AND TCEQ NOTES	2	Storm Line A a Water Quality P		EE SHEET	92	- 10957 SQ. FT.	. 285318 SQ. FT.	
	10	KIMLEY-HORN GENERAL NOTES		adjustments	s	INDEX			(73%)	
	11	FIRE PREVENTION SHEET								
	12	FIRE LANE PROFILES								
A	13 14	FIRE LANE PROFILES DIMENSION CONTROL PLAN (1 OF 2)		-	TxD	OT S	heet L	ist Tab	le	
	14	DIMENSION CONTROL PLAN (1 OF 2)								
	16	PAVING PLAN (1 OF 2)	Shee	et Number			S	Sheet Tit	e	
	17	PAVING PLAN (2 OF 2)		63			CC	VER SHE	EET	
Â	18	PAVING DETAILS	Ŕ	64	DIM	IENSIC	ON CON	TROL AN	D STRIPIN	NG PLAN
\mathbb{A}	19	PAVING DETAILS		65				GRADINO	3	
Ŕ	20	GRADING PLAN (1 OF 3)		66					OL PLAN	
æ	21	GRADING PLAN (2 OF 3)		67	_			•	1 OF 12)	
æ	22	GRADING PLAN (3 OF 3)		68	_			۲.	2 OF 12)	
	23	EXISTING DRAINAGE AREA MAP		69					3 OF 12)	
	24	OVERALL DAM PRE-PROJECT		70 71				•	4 OF 12) 5 OF 12)	
	25	DRAINAGE AREA MAP		72				`	6 OF 12)	
•	26	OVERALL DAM POST-PROJECT		73				•	7 OF 12)	
<u>R</u>	27	STORM PLAN (1 OF 4)		74				•	8 OF 12)	
	28	STORM PLAN (2 OF 4)		74				•		
	29 30	STORM PLAN (3 OF 4) STORM PLAN (4 OF 4)		76				S (SHEET 9 OF 12) S (SHEET 10 OF 12)		
	31	STORM PLAN (4 OF 4) STORM PROFILES		70		DETAILS (SHEET 11 OF 12)				
	32	STORM PROFILES		78	DETAILS (SHEET 11 OF 12) DETAILS (SHEET 12 OF 12)					
Â	33	STORM PROFILES		70		L	JETAILS	(SHEET	12 OF 12)	
\mathbb{A}	34	STORM PROFILES								
Ŕ	35	STORM PROFILES		LANDSC			D ELE	VATON	N SHEE	TS
Ŕ	36	STORM PROFILES	Shee	et Number			S	Sheet Tit	le	
Ŕ	37	WATER QUALITY DRAINAGE AREA MAP						NG ELEV		
\mathbb{A}	38	WATER QUALITY DETENTION PLAN AND DETAILS		79 80					_	
æ	39	WATER QUALITY ACCESS		81				NG ELEV		
	40	DETENTION POND CROSS SECTIONS		82				NG ELEV		
	41	WATER QUALITY POND SECTION		83				NG ELEV		
\mathbb{R}	42 43	WATER QUALITY CALCULATIONS WATER QUALITY DETAILS		84			BUILDI	NG ELEV	ATIONS	
	43	DRAINAGE CALCULATIONS		85			BUILDI	NG ELEV	ATIONS	
	45	DRAINAGE DETAILS		86			BUILDI	NG ELEV	ATIONS	
	46	DRAINAGE DETAILS		87				DSCAPE		
	47	DRAINAGE DETAILS		88				DSCAPE		
R	48	WATER PLAN		89	_			SCAPE F		
Ŕ	49	WATER PLAN		90						
Ŕ	50	PRIVATE SANITARY SEWER PLAN		91 92				TREE LIS		
R	51	PRIVATE SANITARY SEWER PLAN		JL					۱ 	
Â	52	PRIVATE SANITARY SEWER PROFILES								
<u>R</u>	53	TEMPORARY PUMP STATION								
<u>R</u>	54	TEMPORARY PUMP STATION PROFILE								
	55 56	UTILITY DETAILS								
	56	UTILITY DETAILS UTILITY DETAILS								
	58	EROSION CONTROL PLAN PHASE I								
	59	EROSION CONTROL PLAN PHASE I								
	60	EROSION CONTROL PLAN PHASE I								
	61	EROSION CONTROL PLAN FHASE II EROSION CONTROL DETAILS								
	62	EROSION CONTROL DETAILS EROSION CONTROL DETAILS								
	UL			CL		T 1	OF 92	n		

RANCH A, LOT 1 VELSA BLOCK A \triangleleft

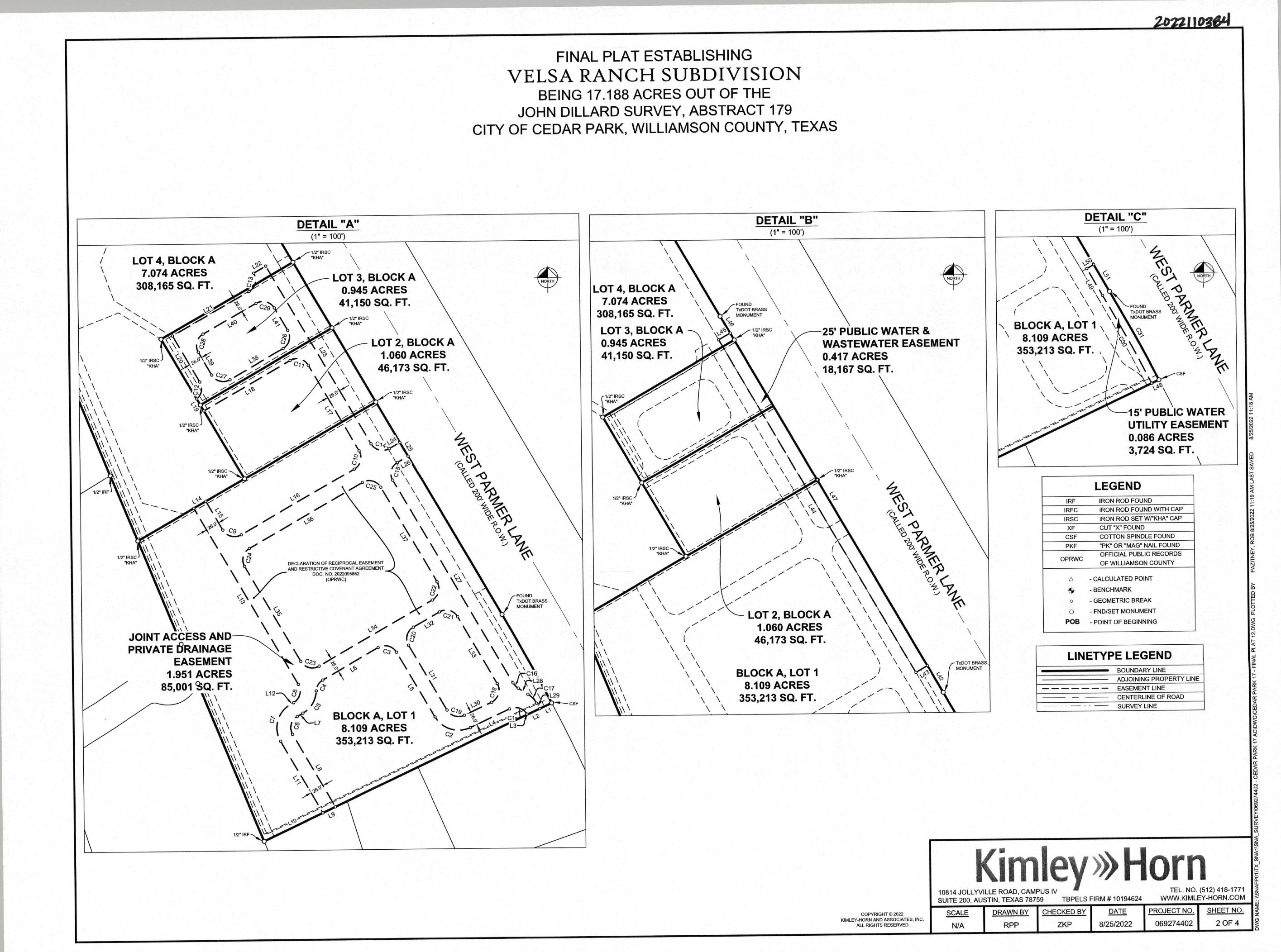
> 20-00020 SD PARK NO. CEDAR ЦО CITY

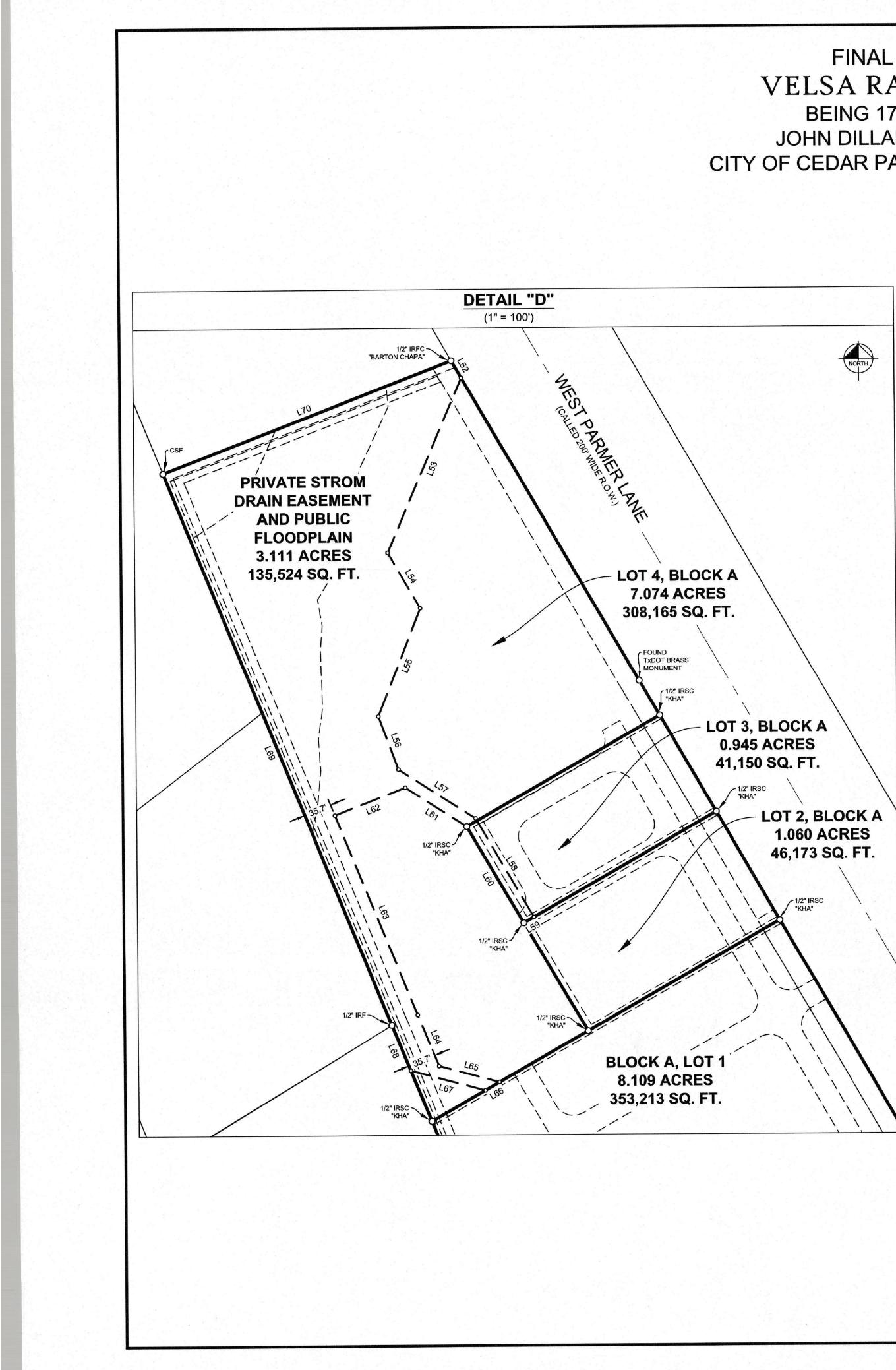
SHEET 1 OF 92



	LEGEND
IRF	IRON ROD FOUND
IRFC	IRON ROD FOUND WITH CAF
IRSC	IRON ROD SET W/"KHA" CAP
XF	CUT "X" FOUND
CSF	COTTON SPINDLE FOUND
PKF	"PK" OR "MAG" NAIL FOUND
OPRWC	OFFICIAL PUBLIC RECORDS
	OF WILLIAMSON COUNTY
Δ	- CALCULATED POINT
•	- BENCHMARK
0	- GEOMETRIC BREAK
0	- FND/SET MONUMENT
-	

LINETYP	PE LEGEND
	BOUNDARY LINE
ne ne se anne anne anne anne anne anne a	ADJOINING PROPERTY LINE
	EASEMENT LINE
	CENTERLINE OF ROAD





FINAL PLAT ESTABLISHING VELSA RANCH SUBDIVISION BEING 17.188 ACRES OUT OF THE JOHN DILLARD SURVEY, ABSTRACT 179 CITY OF CEDAR PARK, WILLIAMSON COUNTY, TEXAS

		CL	IRVE TAE	BLE	
NO.	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD
C1	85°23'26"	25.00'	37.26'	N72°33'45"W	33.90'
C2	85°23'26"	51.00'	76.01'	N72°33'45"W	69.17'
C3	90°00'00"	25.00'	39.27'	N74°52'02"W	35.36'
C4	57°12'25"	25.00'	24.96'	S31°31'44"W	23.94'
C5	57°12'26"	51.00'	50.92'	S31°31'45"W	48.83'
C6	90°00'00"	25.00'	39.27'	S15°07'58"W	35.36'
C7	90°00'00"	51.00'	80.11'	N15°07'58"E	72.12'
C8	90°00'01"	25.00'	39.27'	N15°07'57"E	35.36'
C9	90°00'00"	25.00'	39.27'	S74°52'02"E	35.36'
C10	90°00'00"	25.00'	39.27'	N15°07'58"E	35.36'
C11	90°00'00"	25.00'	39.27'	N74°52'02"W	35.36'
C12	81°09'53"	25.00'	35.41'	N10°38'57"E	32.53'
C13	90°00'00"	25.00'	39.27'	N15°07'58"E	35.36'
C14	90°00'00"	25.00'	39.27'	S74°52'02"E	35.36'
C15	90°00'00"	25.00'	39.27'	S15°07'58"W	35.36'
C16	27°11'53"	30.00'	14.24'	S43°27'59"E	14.11'
C17	27°11'53"	50.00'	23.73'	S43°27'59"E	23.51'
C18	94°36'34"	25.00'	41.28'	S17°26'15"W	36.75'
C19	85°23'26"	25.00'	37.26'	N72°33'45"W	33.90'
C20	90°00'00"	25.00'	39.27'	N15°07'58"E	35.36'
C21	90°00'00"	25.00'	39.27'	S74°52'02"E	35.36'
C22	90°00'00"	25.00'	39.27'	N15°07'58"E	35.36'
C23	90°00'00"	25.00'	39.27'	S74°52'02"E	35.36'
C24	90°00'00"	25.00'	39.27'	S15°07'58"W	35.36'
C25	90°00'00"	25.00'	39.27'	N74°52'02"W	35.36'
C26	90°00'00"	25.00'	39.27'	N15°07'58"E	35.36'
C27	89°56'03"	25.00'	39.24'	S74°54'01"E	35.34'
C28	90°03'57"	25.00'	39.30'	S15°05'59"W	35.38'
C29	90°00'00"	25.00'	39.27'	N74°52'02"W	35.36'
C30	2°55'42"	3703.69'	189.30'	N28°25'51"W	189.28'
C31	2°56'40"	3707.29'	190.51'	S28°25'31"E	190.49'

LINE TABLE				LINE TABL	E		LINE TABL	E	LINE TABLE		
NO.	BEARING	LENGTH	NO.	BEARING	LENGTH	NO.	BEARING	LENGTH	NO.	BEARING	LENGTH
L1	N64°44'32"E	24.53'	L21	N60°07'58"E	166.01'	L41	N29°52'02"W	49.37'	L61	N57°05'04"W	93.81'
L2	S64°44'32"W	26.08'	L22	N60°07'58"E	26.00'	L42	S29°52'02"E	58.40'	L62	S68°35'28"W	96.98'
L3	N29°52'02"W	1.01'	L23	S29°52'02"E	388.17'	L43	S60°07'58"W	25.00'	L63	S21°57'53"E	278.27'
L4	S64°44'32"W	81.37'	L24	N60°07'58"E	22.74'	L44	N29°52'02"W	726.67'	L64	S22°04'18"E	71.56'
L5	N29°52'02"W	141.46'	L25	S29°52'02"E	30.00'	L45	N60°07'58"E	25.00'	L65	S74°52'02"E	80.38'
L6	S60°07'58"W	120.26'	L26	S60°07'58"W	22.74'	L46	N29°52'02"W	37.06'	L66	S60°07'58"W	21.21'
L7	S60°07'58"W	12.22'	L27	S29°52'02"E	442.76'	L47	S29°52'02"E	726.67'	L67	N74°52'02"W	98.81'
L8	S29°52'02"E	157.89'	L28	S57°03'56"E	21.12'	L48	S64°44'32"W	15.00'	L68	N22°04'18"W	63.32'
L9	S64°44'32"W	26.08'	L29	S29°52'02"E	11.74'	L49	N29°52'02"W	58.41'	L69	N21°57'53"W	769.89'
L10	N64°44'32"E	122.31'	L30	S64°44'32"W	56.68'	L50	N60°07'58"E	15.00'	L70	N68°49'50"E	397.33'
L11	N29°52'02"W	155.79'	L31	N29°52'02"W	141.46'	L51	S29°52'02"E	58.40'			
L12	N60°07'58"E	7.37'	L32	N60°07'58"E	56.50'	L52	S29°52'46"E	25.53'			
L13	N29°52'02"W	384.84'	L33	S29°52'02"E	146.01'	L53	S23°08'04"W	244.59'			
L14	N60°07'58"E	26.00'	L34	N60°07'58"E	245.50'	L54	S29°52'02"E	82.65'			
L15	S29°52'02"E	63.00'	L35	S29°52'02"E	207.00'	L55	S21°24'25"W	149.92'			
L16	N60°07'58"E	245.50'	L36	S60°07'58"W	245.50'	L56	S20°02'27"E	73.39'	10 - 10 10 - 10 - 10 - 10		
L17	N29°52'02"W	186.80'	L37	N29°52'02"W	207.00'	L57	S57°05'04"E	117.29'			
L18	S60°07'58"W	186.92'	L38	N60°07'58"E	114.90'	L58	S30°06'16"E	147.54'			
L19	N30°06'16"W	26.30'	L39	S29°55'59"E	49.37'	L59	S60°07'58"W	15.00'			
L20	N29°55'59"W	100.35'	L40	S60°07'58"W	114.96'	L60	N30°06'16"W	143.87'			

	LEGEND
IRF	IRON ROD FOUND
IRFC	IRON ROD FOUND WITH CAP
IRSC	IRON ROD SET W/"KHA" CAP
XF	CUT "X" FOUND
CSF	COTTON SPINDLE FOUND
PKF	"PK" OR "MAG" NAIL FOUND
	OFFICIAL PUBLIC RECORDS
OPRWC	OF WILLIAMSON COUNTY
Δ	- CALCULATED POINT
•	- BENCHMARK
0	- GEOMETRIC BREAK
0	- FND/SET MONUMENT
POB	- POINT OF BEGINNING

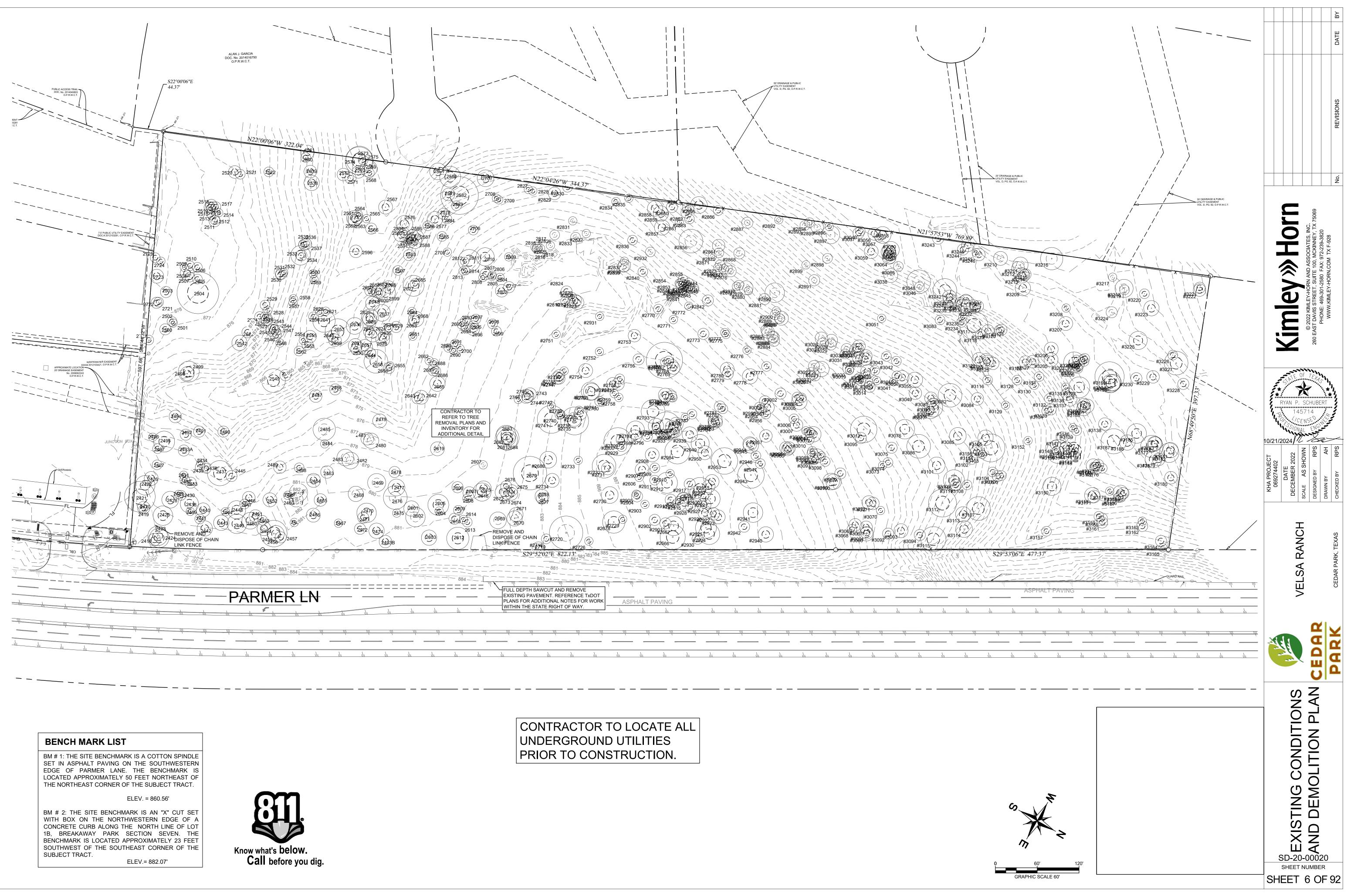
LINETYP	PE LEGEND
	BOUNDARY LINE
	ADJOINING PROPERTY LINE
	EASEMENT LINE
	CENTERLINE OF ROAD
	SURVEY LINE
A second s	

10814 JOLLYVIL SUITE 200, AUS SCALE N/A

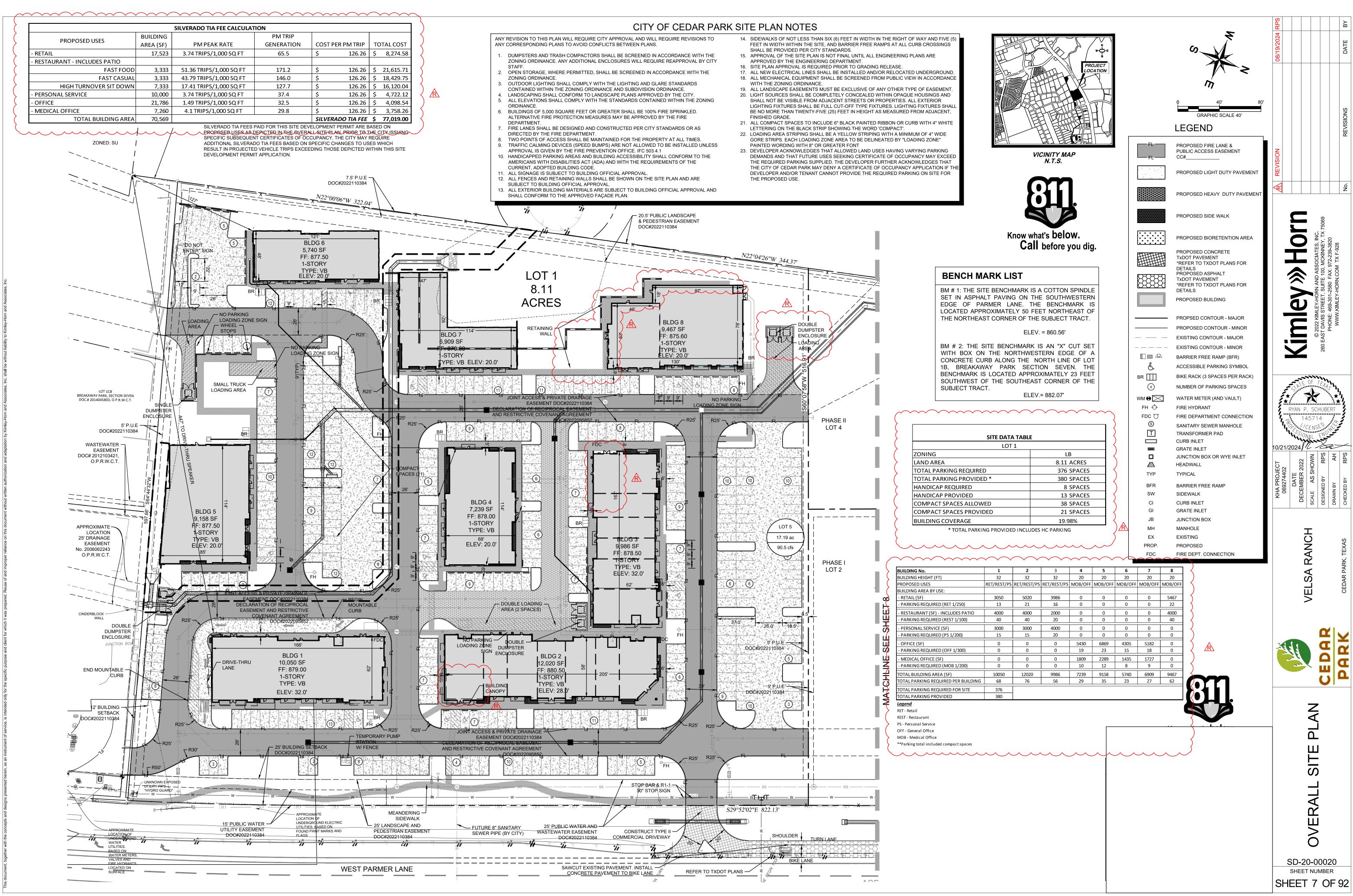
2022110384

		G	F	N	D	
il	Sec.	-	line.			

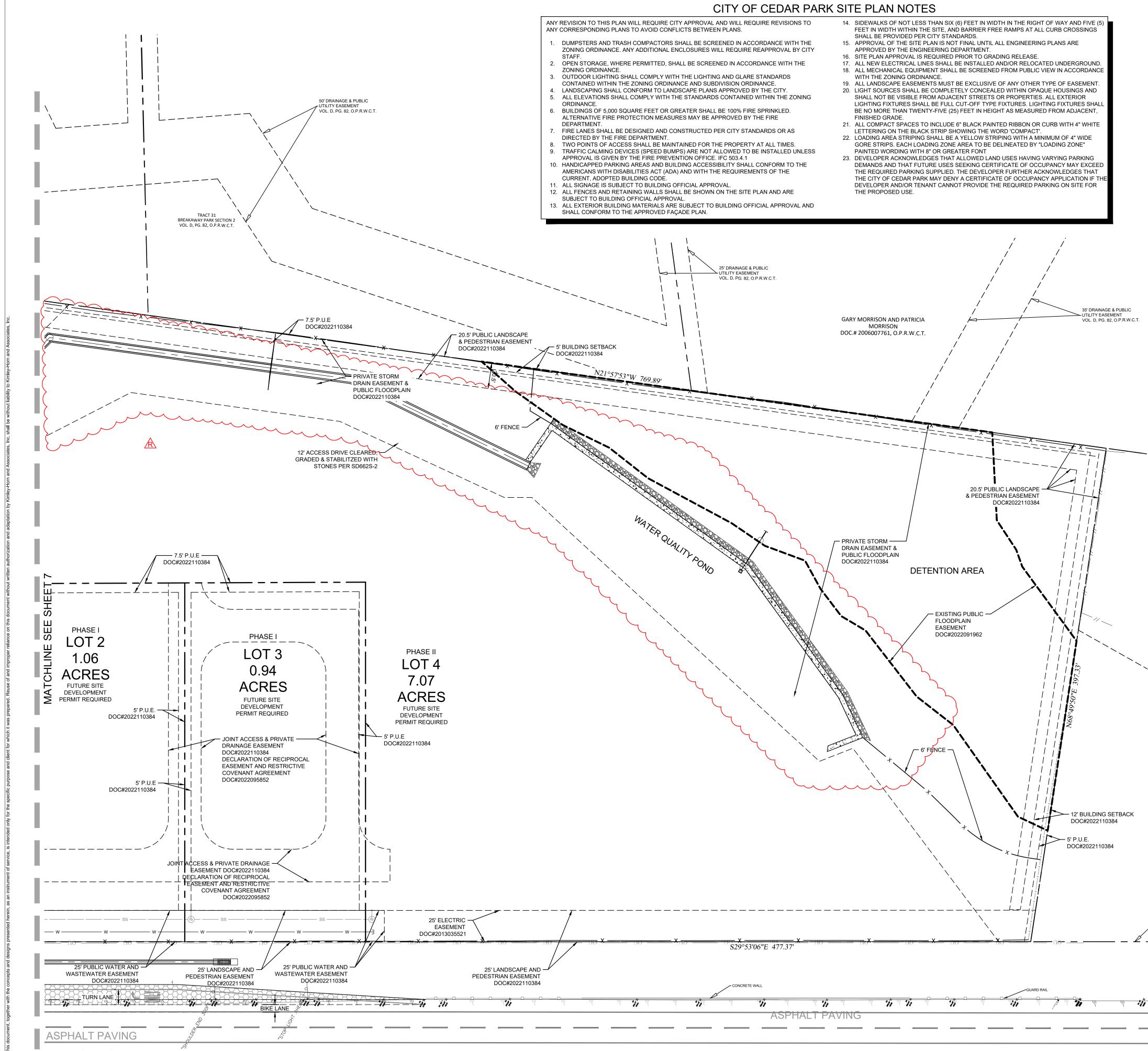
	Cinn Ille Road, CAM STIN, TEXAS 787		>>> H =IRM # 10194624		(512) 418-1771 EY-HORN.COM
-	DRAWN BY	CHECKED BY	DATE	PROJECT NO.	SHEET NO.
and the second se	RPP	ZKP	8/25/2022	069274402	3 OF 4







SAVED SAVED TED BY PATH

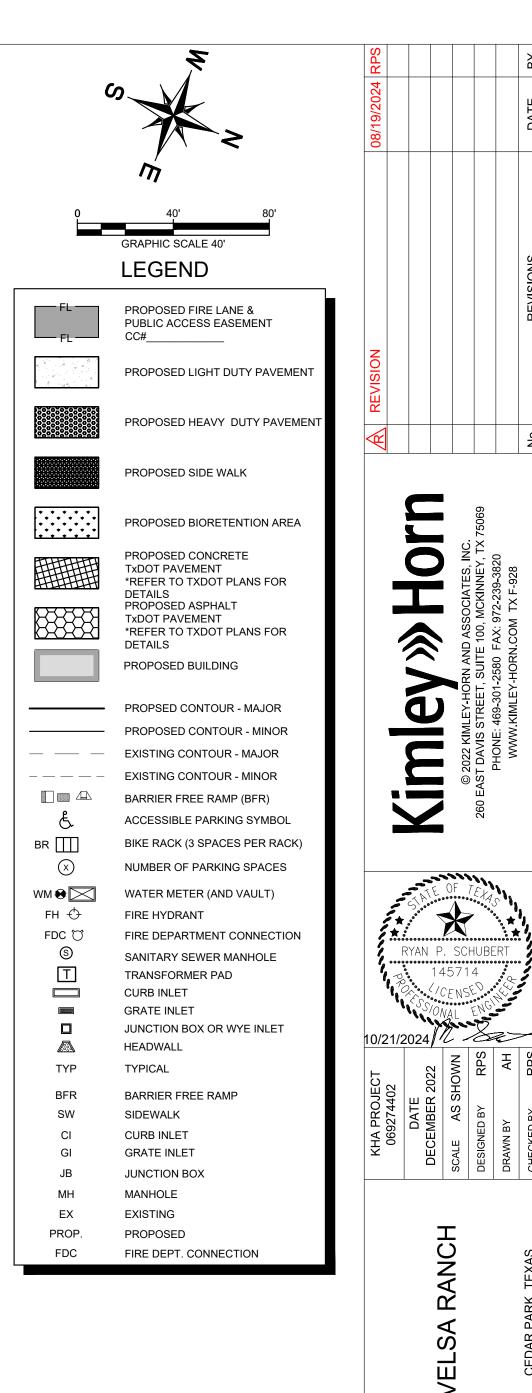


xStm:xSurv:xU 10/21/2024 6:44 PM SCHUBERT, RYAN K:AUS_CIVIL\06927 SAVED SAVED TTED BY PATH











I

D

U

AN

Ц

Ш Н

S

_

A

R

 \leq

Ο

SD-20-00020

SHEET NUMBER

SHEET 8 OF 92

BENCH MARK LIST

BM # 1: THE SITE BENCHMARK IS A COTTON SPINDLE SET IN ASPHALT PAVING ON THE SOUTHWESTERN EDGE OF PARMER LANE. THE BENCHMARK IS LOCATED APPROXIMATELY 50 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE SUBJECT TRACT.

ELEV. = 860.56'

BM # 2: THE SITE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE NORTHWESTERN EDGE OF A CONCRETE CURB ALONG THE NORTH LINE OF LOT 1B, BREAKAWAY PARK SECTION SEVEN. THE BENCHMARK IS LOCATED APPROXIMATELY 23 FEET SOUTHWEST OF THE SOUTHEAST CORNER OF THE SUBJECT TRACT.

ELEV = 882.07'

CONSTRUCTION NOTES FOR SUBDIVISIONS & SITE PLANS CITY OF CEDAR PARK **REVISED MARCH 22, 2021**

GENERAL NOTES:

GENERAL CONTRACTOR SHALL CALL FOR ALL UTILITY LOCATES PRIOR TO ANY CONSTRUCTION. WATER & WASTEWATER OWNED BY THE CITY OF CEDAR PARK CAN BE LOCATED BY CALLING TEXAS 811 AT 1-800-344-8377. ALLOW THREE BUSINESS DAYS FOR LITILITY LOCATES BY THE CITY OF CEDAR PARK

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF AUSTIN STANDARD SPECIFICATIONS. CITY OF AUSTIN STANDARDS SHALL BE USED UNLESS OTHERWISE NOTED. DESIGN PROCEDURES SHALL BE IN GENERAL COMPLIANCE WITH THE CITY OF AUSTIN DRAINAGE CRITERIA MANUAL, ALL VARIANCES TO THE MANUAL ARE LISTED BELOW: NONE. BENCHMARKS SHOULD BE TIED TO THE CITY OF CEDAR PARK BENCHMARKS AND BE CORRECTLY "GEO-REFERENCED" TO STATE PLANE COORDINATES. A LIST OF THE CITY'S BENCHMARKS CAN BE FOUND AT: HTTP://WWW.CEDARPARKTEXAS.GOV/INDEX.ASPX?PAGE=793.

PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR A SITE DEVELOPMENT PERMIT, THE RIGHT OF WAY BETWEEN THE PROPERTY LINE AND EDGE OF PAVEMENT / BACK OF CURB SHALL BE REVEGETATED ACCORDING TO COA SPECIFICATION 602S AND 606S. PRIOR TO CITY ACCEPTANCE OF SUBDIVISION IMPROVEMENTS ALL GRADED AND DISTURBED AREAS SHALL BE RE-VEGETATED IN ACCORDANCE WITH THE CITY OF AUSTIN SPECIFICATION ITEM #604 NATIVE SEEDING UNLESS NON-NATIVE IS SPECIFICALLY APPROVED.

THE CONTRACTOR SHALL PROVIDE THE CITY OF CEDAR PARK COPIES OF ALL TEST RESULTS PRIOR TO ACCEPTANCE OF SUBDIVISION IMPROVEMENTS. CITY, OWNER, ENGINEER, CONTRACTOR, REPRESENTATIVES OF ALL UTILITY COMPANIES, AND A REPRESENTATIVE FROM THE TESTING LAB SHALL ATTEND PRE-CONSTRUCTION CONFERENCE PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL

SCHEDULE THE MEETING WITH THE CITY OF CEDAR PARK ENGINEERING DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO THIS PRE-CONSTRUCTION MEETING (512-401-5000). FINAL CONSTRUCTION PLANS SHALL BE DELIVERED TO ENGINEERING A MINIMUM OF SEVEN BUSINESS DAYS PRIOR TO REQUESTING A PRE-CONSTRUCTION MEETING. EXCESS SOIL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. NOTIFY THE CITY OF CEDAR PARK IF THE DISPOSAL SITE IS INSIDE THE CITY'S JURISDICTIONAL BOUNDARIES.

BURNING IS PROHIBITED. ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION OF THE REVISION. ALL CHANGES AND REVISIONS MADE TO THE DESIGN OF UTILITIES OR IMPACTS UTILITIES SHALL USE REVISION CLOUDS TO HIGHLIGHT ALL REVISIONS OR CHANGES WITH EACH SUBMITTAL. REVISION

TRIANGLES SHALL BE USED TO MARK REVISIONS. ALL CLOUDS AND TRIANGLE MARKERS FROM PREVIOUS REVISIONS MAY BE REMOVED. REVISION INFORMATION SHALL BE UPDATED IN THE APPROPRIATE AREAS OF THE TITLE BLOCK. MINIMUM SETBACK REQUIREMENTS FOR EXISTING AND NEWLY PLANTED TREES FROM THE EDGE OF PAVEMENT TO CONFORM TO THE REQUIREMENTS AS SHOWN IN TABLE 6-1 OF THE CITY OF AUSTIN'S TRANSPORTATION CRITERIA MANUAL.

 ALL FIRE HYDRANTS MUST MEET CITY OF CEDAR PARK THREAD SPECIFICATIONS (NATIONAL THREAD) THE CONTRACTOR WILL REIMBURSE THE CITY FOR ALL COST INCURRED AS A RESULT OF ANY DAMAGE TO ANY CITY UTILITY OR ANY INFRASTRUCTURE WITHIN THE RIGHT-OF-WAY BY THE CONTRACTOR, REGARDLESS OF THESE PLANS. BLUE REFLECTOR MARKERS SHALL BE LOCATED ON THE CENTERLINE OF THE PAVEMENT ACROSS FROM ALL FIRE HYDRANTS. PAVEMENT MARI AN ENGINEER'S CONCURRENCE LETTER AND ELECTRONIC 22"X34" RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT PRIOR TO THE ISSUANCE OF CERTIFICATE OF 8. SHOULD A TAPPING SADDLE BE APPROVED BY PUBLIC WORKS, THE SADDLE SHALL BE SMITH-BLAIR 662 STAINLESS STEEL TAPPING SLEEVES \ OCCUPANCY OR SUBDIVISION ACCEPTANCE. THE ENGINEER AND CONTRACTOR SHALL VERIFY THAT ALLFINAL REVISIONS AND CHANGES HAVE BEEN MADE TO RECORD DRAWINGS PRIOR TO CITY SUBMITTAL. TO THE CITY OF CEDAR PARK PUBLIC WORKS, NO TAP EXCEEDING 2" IN DIAMETER WILL BE APPROVED RECORD CONSTRUCTION DRAWINGS, INCLUDING ROADWAY AND ALL UTILITIES, SHALL BE PROVIDED TO THE CITY IN AUTOCAD ". DWG" FILES AND ". DWG" FILES AND ". DWG" FILES AND ". DWG" FILES AND TEXT SIZE SHALL BE SUCH THAT IF HALF-SIZE 9. ALL WATER LINES, INCLUDING SERVICE LINES, SHALL BE PRESSURE AND LEAK TESTED PER CITY OF AUSTIN STANDARD SPECIFICATIONS AND PRINTS (11"X 17") WERE PRODUCED, THE PLANS WOULD STILL BE LEGIBLE. ALL REQUIRED DIGITAL FILES SHALL CONTAIN A MINIMUM OF TWO (2) CONTROL POINTS REFERENCED TO THE STATE PLANE GRID COORDINATE SYSTEM – TEXAS CENTRAL ZONE (4203), IN CONTRACTOR, AND THE CONTRACTOR MAY BE REQUIRED TO RE-TEST LINES IF THE TESTING IS NOT WITNESSED BY THE CITY. CONTRACTOR MUST US FEET AND SHALL INCLUDE ROTATION INFORMATION AND SCALE FACTOR REQUIRED TO REDUCE SURFACE COORDINATES TO GRID COORDINATES IN US FEET. 10. ALL WATER LINES SHALL BE STERILIZED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH CITY OF AUSTIN STANDARDS. THE CONTRA 14. THE CITY OF CEDAR PARK HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE COMPLIANCE WITH ALL LEGISLATION RELATED TO ACCESSIBILITY WITHIN BACTERIOLOGICAL SAMPLES TO THE STATE. PUBLIC WORKS WILL REQUIRE A CONTRACTOR SPECIALIZED IN DISINFECTION FOR LARGE DIAMETER LIF

THE LIMITS OF CONSTRUCTION SHOWN IN THESE PLANS. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS. THE CITY OF CEDAR PARK MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO BLASTING IS ALLOWED ON THIS PROJECT. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ANY PARTIAL OR COMPLETE ROADWAY CLOSURES. TRAFFIC CONTROL PLANS SHALL BE SITE SPECIFIC AND SEAL BY A REGISTERED PROFESSIONAL ENGINEER.

18. THE CONTRACTOR SHALL KEEP THE SITE CLEAN AND MAINTAINED AT ALL TIMES, TO THE SATISFACTION OF THE CITY. THE SUBDIVISION WILL NOT BE ACCEPTED (OR CERTIFICATE OF OCCUPANCY ISSUED) UNTIL THE SITE HAS BEEN CLEANED TO THE SATISFACTION OF THE CITY. SIGNS ARE NOT PERMITTED IN PUBLIC UTILITY EASEMENTS, SET BACKS OR DRAINAGE EASEMENTS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT TEMPORARY EROSION CONTROLS ON A DAILY BASIS. ADJUST THE CONTROLS AND/OR REMOVE ANY SEDIMENT BUILDUP AS NECESSARY. A STOP WORK ORDER AND/OR FINE MAY BE IMPOSED IF THE EROSION CONTROLS ARE NOT MAINTAINED.

A FINAL CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED ON COMMERCIAL SITES UNTIL ALL DISTURBED AREAS HAVE BEEN RE-VEGETATED. SUBSTANTIAL GRASS COVER, AS DETERMINED BY ENGINEERING DEPARTMENT, MUST BE ACHIEVED PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY. ALL EROSION CONTROLS MUST REMAIN IN PLACE AND MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN RE-VEGETATED TO THE ACCEPTANCE OF THE CITY OF CEDAR PARK ENGINEERING DEPARTMENT. PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR A SITE DEVELOPMENT PERMIT. THE RIGHT OF WAY BETWEEN THE PROPERTY LINE AND EDGE OF PAVEMENT / BACK OF CURB SHALL BE REVEGETATED ACCORDING TO COA SPECIFICATION 602S AND 6065

22. CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL, SEDIMENT AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL, SEDIMENT OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER, ONLY SHOVELING AND SWEEPING WILL BE ALLOWED. CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN A STOP WORK ORDER OR A FINE 23. ALL WET UTILITIES SHALL BE INSTALLED AND ALL DENSITIES MUST HAVE PASSED INSPECTION(S) PRIOR TO THE INSTALLATION OF DRY UTILITIES.

A MINIMUM OF SEVEN DAYS OF CURE TIME IS REQUIRED FOR HMAC PRIOR TO THE INTRODUCTION OF VEHICULAR TRAFFIC TO ANY STREETS.

PRIOR TO PLAN APPROVAL. THE ENGINEER SHALL SUBMIT TO THE ENGINEERING DEPARTMENT DOCUMENTATION OF SUBDIVISION/SITE REGISTRATION WITH THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS (TDLR) AND PROVIDE DOCUMENTATION OF REVIEW AND COMPLIANCE OF THE SUBDIVISION/SITE CONSTRUCTION PLANS WITH TEXAS ARCHITECTURAL BARRIERS ACT (TABA). 26. PRIOR TO SUBDIVISION/SITE ACCEPTANCE, THE ENGINEER/DEVELOPER-OWNER SHALL SUBMIT TO THE ENGINEERING DEPARTMENT DOCUMENTATION THAT THE SUBDIVISION/SITE WAS INSPECTED BY TDLR OR A REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND THE SUBDIVISION/SITE IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE TABA.

27. ALL CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES SHALL BE PERFORMED MONDAY THRU FRIDAY FROM 7:00 A.M. TO 6:00 P.M. HOWEVER, CONSTRUCTION ACTIVITIES WITHIN ONE HUNDRED FEET (100') OF A DWELLING OR DWELLING UNIT SHALL BE PERFORMED BETWEEN THE HOURS OF 8:00 AND 6:00 P.M. OTHERWISE ALL CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES SHALL CONFORM TO CITY OF CEDAR PARK CODE OF ORDINANCES, SPECIFICALLY ARTICLE 8.08. 28. APPROVAL FOR CONSTRUCTION ACTIVITIES PERFORMED ON OWNER'S HOLIDAYS, AND/OR SATURDAYS, OUTSIDE OF MONDAY THROUGH FRIDAY 8 AM TO 5 PM, OR IN EXCESS OF 8 HOURS PER DAY SHALL BE

OBTAINED IN WRITING 48 HOURS IN ADVANCE, AND INSPECTION FEES AT 1.5 TIMES THE HOURLY INSPECTION RATE SHALL BE BILLED DIRECTLY TO THE CONTRACTOR. THERE SHALL BE NO CONSTRUCTION OR CONSTRUCTION RELATED ACTIVITIES PERFORMED ON SUNDAY. THE CITY RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT CITY INSPECTION. 29. ALL POLES TO BE APPROVED BY CITY AND PEC, NO CONDUIT SHALL BE INSTALLED DOWN LOT LINES / BETWEEN HOMES. ALL CONDUIT SHALL BE LOCATED IN THE PUBLIC ROW OR IN AN EASEMENT ADJACENT TO AND PARALLEL TO THE PUBLIC ROW. DRY UTILITIES SHALL BE INSTALLED AFTER SUBGRADE IS CUT AND BEFORE FIRST COURSE BASE. NO TRENCHING OF COMPACTED BASE. IF NECESSARY DRY UTILITIES INSTALLED AFTER FIRST COURSE BASE.

SHALL BE BORED ACROSS THE FULL WIDTH OF THE ROW. 31. NO PONDING OF WATER SHALL BE ALLOWED TO COLLECT ON OR NEAR THE INTERSECTION OF PRIVATE DRIVEWAY(S) AND A PUBLIC STREET. RECONSTRUCTION OF THE DRIVEWAY APPROACH SHALL BE AT THE CONTRACTOR'S EXPENSE

ALL DRIVEWAY APPROACHES SHALL HAVE A UNIFORM TWO PERCENT SLOPE WITHIN THE ROW UNLESS APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT.

CONTRACTORS ON SITE SHALL HAVE AN APPROVED SET OF PLANS AT ALL TIMES. FAILURE TO HAVE AN APPROVED SET MAY RESULT IN A STOP WORK ORDER. CONTRACTOR TO CLEAR FIVE FEET BEYOND ALL RIGHT OF WAY TO PREVENT FUTURE VEGETATIVE GROWTH INTO THE SIDEWALK AREAS.

THERE SHALL BE NO WATER OR WASTEWATER APPURTENANCES, INCLUDING BUT NOT LIMITED TO, VALVES, FITTINGS, METERS, CLEAN-OUTS, MANHOLES, OR VAULTS IN ANY DRIVEWAY, SIDEWALK, TRAFFIC

OR PEDESTRIAN AREA 36. SIDEWALKS SHALL NOT USE CURB INLETS AS A PARTIAL WALKING SURFACE. SIDEWALKS SHALL NOT USE TRAFFIC CONTROL BOXES, METER OR CHECK VALVE VAULTS, COMMUNICATION VAULTS, OR OTHER BURIED OR PARTIALLY BURIED INFRASTRUCTURE AS A VEHICULAR OR PEDESTRIAN SURFACE.

STREET NOTES:

NO TRENCHING OF COMPACTED BASE WILL BE ALLOWED. A PENALTY AND/OR FINE MAY BE IMPOSED TO THE GENERAL CONTRACTOR IF TRENCHING OF COMPACTED BASE OCCURS WITHOUT CITY APPROVAL, REGARDLESS OF WHO PERFORMED THE TRENCHING.

2. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CITY OF CEDAR PARK HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, OR ANY OTHER ACCESSIBILITY LEGISLATION, AND DOES NOT WARRANTY OR APPROVE THESE PLANS FOR ANY ACCESSIBILITY STANDARDS. STREET BARRICADES SHALL BE INSTALLED ON ALL DEAD END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY

ANY DAMAGE CAUSED TO EXISTING PAVEMENT, CURBS, SIDEWALKS, RAMPS, ETC., SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE SUBDIVISION.

AT INTERSECTIONS, WHICH HAVE VALLEY DRAINAGE, THE CROWN TO THE INTERSECTING STREET WILL BE CULMINATED AT A DISTANCE OF 40 FT. FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED. PAVEMENT SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS: THE SUBGRADE MATERIAL WAS TESTED BY (BRAUN INTERTEX CORPORATION (REPORT NO. B2007025) ON SEPTEMBER 3, 2020 THE PAVEMENT SECT LIGHT DUTY CONCRETE: 6-INCHES OF CRUSHED AGGREGATE BASE & 5 INCHES OF CONCRETE HEAVY DUTY CONCRETE: 6-INCHES OF CRUSHED AGGREGATE BASE & 7 INCHES OF CONCRETE

DENSITY TESTING OF COMPACTED SUBGRADE MATERIAL, FIRST COURSE AND SECOND COURSE COMPACTED BASE, SHALL BE MADE AT 500 FOOT INTERVALS. ALL DENSITY TESTING IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR AND SHALL BE WITNESSED BY THE CITY OF CEDAR PARK'S PROJECT REPRESENTATIVE. THE CONTRACTOR IS TO NOTIFY THE CITY 48 HOURS PRIOR TO SCHEDULED DENSITY TESTING

9. TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND INSTALLED AS DIRECTED BY THE CITY OF CEDAR PARK PRIOR TO CITY ACCEPTANCE OF THE SUBDIVISION.

10. SLOPE OF NATURAL GROUND ADJACENT TO THE RIGHT-OF-WAY SHALL NOT EXCEED 3:1. IF A 3:1 SLOPE IS NOT POSSIBLE, A RETAINING WALL OR SOME OTHER FORM OF SLOPE PROTECTION APPROVED BY THE CITY SHALL BE PLACED IN A LOCATION ACCEPTABLE TO THE CITY

11. THE CITY, ENGINEER, CONTRACTOR, AND A REPRESENTATIVE FROM THE ASPHALT TESTING LAB SHALL ATTEND A PRE-PAVING CONFERENCE PRIOR TO THE START OF HMAC PAVING. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE PRIOR TO THIS MEETING (512-401-5000) 12. THE CONTRACTOR OR OWNER IS RESPONSIBLE FOR CONDUCTING TESTS ON ASPHALT PAVEMENT IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE CITY OF AUSTIN STANDARD SPECIFICATION NO. 340. ANY RE-TESTING OF THE ASPHALT

PAVEMENT SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE ENGINEER AND THE CITY OF CEDAR PARK. RE-TESTING OF THE ASPHALT PAVEMENT SHALL BE LIMITED TO ONE RETEST PER PROJECT

13. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL COMPLY WITH MUTCD STANDARDS. STREET NAME LETTER SIZING SHALL BE IN ACCORDANCE WITH MUTCDTABLE2D-2. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

ALL STREET NAME SIGNS SHALL BE HIGH INTENSITY RETRO GRADE. NO FENCING OR WALL IS ALLOWED TO BE CONSTRUCTED SO THAT IT OBSTRUCTS THE SIGHT LINES OF DRIVERS FROM AN INTERSECTING PUBLIC ROADWAY OR FROM AN INTERSECTING PRIVATE DRIVEWAY. SIGHT LINES ARE TO BE MAINTAINED AS UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER DESCRIBED IN CITY CODE SECTION 14.05.007. INSTALLING A FENCE OR WALL WHICH DOES NOT COMPLY WITH THE CITY'S SIGHT DISTANCE REQUIREMENTS OR FENCING REGULATIONS IS A VIOLATION OF THE CITY'S ORDINANCE AND MAY BE PUNISHABLE PURSUANT THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. AFTER RECEIVING 13. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURREN TO SECTION 1 01 009 OF CITY CODE 16. TEMPORARY ROCK CRUSHING OPERATIONS ARE NOT ALLOWED. ALL SOURCES FOR FLEXIBLE BASE MATERIAL ARE REQUIRED TO BE APPROVED BY THE CITY. PRIOR TO BASE PLACEMENT ALL CURRENT TRIAXIAL TEST REPORTS FOR THE PROPOSED WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE CITY INSPECTOR. 14. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR. REMOVE THE

STOCKPILES ARE TO BE SUBMITTED TO THE CITY'S PROJECT REPRESENTATIVE FOR REVIEW AND APPROVAL. UTILITY SERVICE BOXES OR OTHER UTILITY FACILITIES SHALL NOT BE INSTALLED WITHIN AREAS DETERMINED TO BE REQUIRED SIGHT LINES OF TWO INTERSECTING PUBLIC STREETS OR WITHIN SIGHT LINES OF A PRIVATE DRIVEWAY. SIGHT LINES ARE TO BE MAINTAINED COMPLIANT WITH TABLE 1-1 OF THE AUSTIN TRANSPORTATION CRITERIA MANUAL. UTILITIES DETERMINED BY THE DIRECTOR OF ENGINEERING TO BE PLACED WITHIN REQUIRED SIGHT LINES MAY BE REQUIRED TO BE RELOCATED AT THE EXPENSE OF THE CONTRACTOR PRIOR TO THE CITY ISSUING A CERTIFICATE OF OCCUPANCY OR PRIOR TO THE CITY'S ACCEPTANCE OF THE PROJECT

IMPROVEMENTS 18. ALL LANE CLOSURES SHALL OCCUR ONLY BETWEEN THE HOURS OF 9 AM AND 4 PM. ANY NIGHT TIME LANE CLOSURES REQUIRE APPROVAL BY THE DIRECTOR OF ENGINEERING AND SHALL OCCUR BETWEEN THE HOURS OF 8 PM AND 6 AM. LANE CLOSURES OBSERVED BY CITY DURING THE PEAK HOURS OF 6 AM TO 9 AM, OR 4 PM TO 8 PM WILL BE SUBJECT TO FINE PER CHAPTER 1 OF CITY ORDINANCE, AND/OR SUBSEQUENT ISSUANCE OF WORK STOPPAGE

19. IMPROVEMENTS THAT INCLUDE RECONSTRUCTION OF AN EXISTING TYPE II DRIVEWAY SHALL BE DONE IN A MANNER WHICH RETAINS OPERATIONS OF NOT LESS THAN HALF OF THE DRIVEWAY AT ALL TIMES. FULL CLOSURE OF SUCH DRIVEWAY CAN BE CONSIDERED WITH WRITTEN AUTHORIZATION RETAINED BY THE CONTRACTOR FROM THE PROPERTY OWNER(S) OR ACCESS EASEMENT RIGHT HOLDER(S) OF THE DRIVEWAY ALLOWING FULL CLOSURE OF THE DRIVEWAY 20. TREES MUST NOT OVERHANG WITHIN 10' VERTICALLY OF A SIDEWALK, OR 18' VERTICALLY OF A ROADWAY OR DRIVEWAY

WASTEWATER NOTES:

REFER TO THE CITY OF CEDAR PARK PUBLIC WORKS UTILITY POLICY AND SPECIFICATIONS MANUAL. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH THE CITY APPROVAL. ALL UTILITY

ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION. 3. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO BIDDING THE PROJECT. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH AT LEAST 8 MIL. POLYETHYLENE WRAP

ALL WATER MAINS, WASTEWATER MAINS AND SERVICE LINES SHALL MEET CITY OF AUSTIN MINIMUM COVER SPECIFICATIONS. ALL STREETS ARE TO BE CUT TO SUBGRADE PRIOR TO INSTALLATION OF WATER MAINS OR CUTS WILL BE ISSUED BY THE FNGINFFR WHERE 48-INCHES OF COVER BELOW SUBGRADE CANNOT BE ACHIEVED FOR WASTEWATER SERVICE LINES ALTERNATE MATERIALS MAY BE USED. A MINIMUM OF 36-INCHES OF COVER BELOW SUBGRADE SHALL BE ACHIEVED. ANY WASTEWATER SERVICE

LINE WITH COVER BETWEEN 36-INCH AND 48-INCHES SHALL BE SDR-26 PVC PRESSURE PIPE. GASKETED PVC SEWER MAIN FITTINGS SHALL BE USED TO CONNECT SDR-35 PVC TO SDR-26 PVC PRESSURE PIPE OR C-900.

PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES: WASTEWATER- ASTM D2241 SDR-26

(NOTE: IF USING PVC, SDR-26 IS REQUIRED, SDR-35 WW IS NOT ALLOWED.

FORCE MAIN- DR-27 I.P.S. HDPE FORCEMAINS SHALL BE EPOXY LINED DUCTILE IRON)

ALL SANITARY SEWERS, EXCLUDING SERVICE LINES, SHALL BE MANDREL TESTED PER TCEQ (TEXAS COMMISSION ON ENVIRONMENTAL QUALITY) CRITERIA. A MANDREL TEST WILL NOT BE PERFORMED UNTIL BACKFILL HAS BEEN IN PLACE FOR A MINIMUM OF 30 DAYS. 10. ALL WASTEWATER LINES 10" AND LARGER SHALL BE VIDEO RECORDED ACCORDING TO COA 510 AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL SUPPLY TWO COPIES TO THE CITY'S FIELD

REPRESENTATIVE, NO SEPARATE PAY UNLESS NOTED ON THE BID FORM. ALL SANITARY SEWERS, INCLUDING SERVICE LINES, SHALL BE AIR TESTED PER CITY OF AUSTIN STANDARD SPECIFICATIONS.

DENSITY TESTING OF COMPACTED BACKFILL SHALL BE MADE AT A RATE OF ONE TEST PER TWO FOOT LIFTS PER 500 FEET OF INSTALLED PIPE.

CITY SHALL BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING OF WATER AND WASTEWATER LINES. CITY INSPECTION IS REQUIRED FOR ALL TESTING OF WATER AND WASTEWATER LINES. WHERE A WATER OR WASTEWATER LINE CROSSES ABOVE (OR BELOW) A STORM SEWER STRUCTURE AND THE BOTTOM (OR TOP) OF THE PIPE IS WITHIN 18 INCHES OF THE TOP (OR BOTTOM) OF THE UTILITY STRUCTURE, THE PIPE SHALL BE ENCASED WITH CONCRETE FOR A DISTANCE OF AT LEAST 1 FT. ON EITHER SIDE OF THE DITCH LINE OF THE UTILITY STRUCTURE OR THE STORM SEWER. CONCRETE

ENCASEMENT WILL NOT BE REQUIRED FOR DUCTILE IRON (THICKNESS CLASS 50), AWWA C-900 (SDR-18) 150 PSI RATED PVC IN SIZES TO 12 INCHES OR AWWA C-905 (SDR-25) 165 PSI RATED PVC IN SIZES LARGER THAN 12 INCHES. CONCRETE ENCASEMENT SHALL CONFORM TO C.O.A. STANDARD DETAIL 505-1. 15. THE ALLOWABLE (MAXIMUM) ADJUSTMENT FOR A MANHOLE SHALL BE 12" (INCHES) OR LESS.

WHERE A SEWER LINE CROSSES A WATER LINE, THE SEWER LINE SHALL BE ONE 20 FT. JOINT OF 150 PSI RATED PVC CENTERED ON CROSSING.

17 ALL MANHOLE AND INLET COVERS SHALL READ "CITY OF CEDAR PARK"

CONTRACTOR TO NOTIFY, AND OBTAIN APPROVAL FROM, THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING CITY UTILITIES. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS 20. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING S

- CLOW MEDALLION HYDRANT
- AMERICAN AVK COMPANY, SERIES 27 (MODEL 2780)
- 11. DENSITY TESTING OF COMPACTED BACKFILL SHALL BE MADE AT A RATE OF ONE TEST PER TWO FOOT LIFTS PER 500 FEET OF INSTALLED PIPE CONTRACTOR TO OBTAIN A WATER METER FROM THE CITY OF CEDAR PARK FOR ANY WATER THAT MAY BE REQUIRED DURING CONSTRUCTIO
- ALL WATER METER BOXES SHALL BE FORD GULF METER BOX WITH LOCKING LID.
- SINGLE G-148-233 • DUAL DG-148-243
- 1" METER YL111 444

STORM SEWER NOTES:

ALL MANHOLE LIDS SHALL BE 32" OR LARGER, UNLESS EXPRESSLY APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT.

- CONTRACTOR TO NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING UTILITIES. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS.
- UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING ST CONTRACTOR TO INSTALL AND MAINTAIN GEO-TEXTILE FABRIC BARRIER (INLET PROTECTION) AROUND STORM SEWER LEADS AND INLETS TO
- INSTALL CONCRETE SAFETY END TREATMENTS TO ALL CULVERTS AND ENDS OF DRAINAGE PIPE. 11. ALL CURB INLETS SHALL HAVE AN ALMETEK 4" DISC "NO DUMPING DRAINS TO WATERWAY" MARKER.

SEQUENCE OF CONSTRUCTION NOTES:

- UNDERGROUND UTILITIES WILL BE INSTALLED, INCLUDING FIRE HYDRANTS. FIRE DEPARTMENT ACCESS WILL BE INSTALLED WHERE REQUIRED BY APPROVED SITE PLAN.
- VERTICAL CONSTRUCTION MAY OCCUR AFTER THE PRE-VERTICAL INSPECTION HAS BEEN CLEARED BY THE FIRE MARSHAL
- PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.

 20. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60. 21. ALL WASTEWATER MANHOLES TO BE COATED WITH ORGANIC MATERIALS AND PROCEDURES LISTED IN CITY OF AUSTIN QUALIFIED PRODUCTS LIST NO. WW-511 (WW-511A AND WW-511B ARE NOT ALLOWED UNLESS MANHOLE IS BEING STRUCTURALLY REHABILITATED WITH APPROVAL BY PUBLIC WORKS). ALL MANHOLES WILL BE PRE-COATED OR COATED AFTER TESTING. 22. POLYBRID COATINGS ON WASTEWATER MANHOLES WILL NOT BE ALLOWED. ANY OTHER PRODUCT APPEARING ON THE COA SPL WW-511 IS ACCEPTABLE. 23. ALL PENETRATIONS OF EXISTING WASTEWATER MANHOLES ARE REQUIRED TO BE RE-COATED IN ACCORDANCE WITH THE SPECIFICATIONS LISTED IN NOTE 20. 	DATE
 ALL MANHOLES WILL BE VACUUM TESTED ONLY. TRACER TAPE AND MARKING TAPE SHALL BE INSTALLED ON ALL WATER AND WASTEWATER MAINS IN ACCORDANCE WITH CITY OF AUSTIN STANDARDS, REGARDLESS OF THE TYPE OF PIPE. ALL PRESSURE PIPE SHALL HAVE MECHANICAL RESTRAINT AND CONCRETE THRUST BLOCKING AT ALL VALVES, BENDS, TEES, PLUGS, AND OTHER FITTINGS 	
 WATER NOTES: 1. REFER TO THE CITY OF CEDAR PARK PUBLIC WORKS UTILITY POLICY AND SPECIFICATIONS MANUAL. 2. THE TOP OF VALVE STEMS SHALL BE AT LEAST 18", AND NO MORE THAN 36", BELOW FINISHED GRADE VALVE STEM RISERS SHALL BE WELDED ON EACH END TO THE CITY'S SATISFACTION. 3. FIRE HYDRANT LEADS TO BE DUCTILE IRON, CLASS 350, AND INSTALLED PER CITY OF AUSTIN STANDARD SPECIFICATIONS AND DETAIL. 4. PRIOR TO INSTALLATION OF FIRE HYDRANTS, THE ENGINEER WILL PROVIDE THE CONTRACTOR ONE (1) CUT FROM A HUB PIN, ESTABLISHING THE ELEVATION OF THE BURY LINE. 5. THE ENGINEER SHALL PROVIDE CUTS FOR ALL WATER LINES AT ALL STORM SEWER CROSSINGS TO THE CITY OF CEDAR PARK. 6. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES: 	REVISIONS
WATER - AWWA C-900 PVC COPPER PIPE AND FITTINGS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY. MINIMUM DR-14 12" DIA AND SMALLER. MINIMUM CLASS 250 DI LARGER THAN 12" DIA. 7. APPROVED 5 ¼" FIRE HYDRANTS: • AMERICAN FLOW CONTROL, B84B	
 MUELLER COMPANY, SUPER CENTURION 250 CLOW MEDALLION HYDRANT AMERICAN AVK COMPANY, SERIES 27 (MODEL 2780) ALL FIRE HYDRANTS MUST MEET CITY OF CEDAR PARK THREAD SPECIFICATIONS (NATIONAL THREAD) BLUE REFLECTOR MARKERS SHALL BE LOCATED ON THE CENTERLINE OF THE PAVEMENT ACROSS FROM ALL FIRE HYDRANTS. PAVEMENT MARKERS AT INTERSECTIONS SHALL BE FOUR-SIDED. 	Ż
 8. SHOULD A TAPPING SADDLE BE APPROVED BY PUBLIC WORKS, THE SADDLE SHALL BE SMITH-BLAIR 662 STAINLESS STEEL TAPPING SLEEVES WITH ALL STAINLESS HARDWARE, OR APPROVED EQUAL. REQUESTS FOR ALTERNATE PROVIDERS SHALL BE MADE TO THE CITY OF CEDAR PARK PUBLIC WORKS. NO TAP EXCEEDING 2" IN DIAMETER WILL BE APPROVED. 9. ALL WATER LINES, INCLUDING SERVICE LINES, SHALL BE PRESSURE AND LEAK TESTED PER CITY OF AUSTIN STANDARD SPECIFICATIONS AND WITNESSED BY THE CITY OF CEDAR PARK REPRESENTATIVE. ALL TESTING IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE CONTRACTOR MAY BE REQUIRED TO RE-TEST LINES IF THE TESTING IS NOT WITNESSED BY THE CITY. CONTRACTOR MUST NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO ANY TESTING. 10. ALL WATER LINES SHALL BE STERILIZED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH CITY OF AUSTIN STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR STERILIZATION AND THE CITY OF CEDAR PARK 15 RESPONSIBLE FOR SUBMITTING 	
BACTERIOLOGICAL SAMPLES TO THE STATE. PUBLIC WORKS WILL REQUIRE A CONTRACTOR SPECIALIZED IN DISINFECTION FOR LARGE DIAMETER LINES OR CRITICAL INFRASTRUCTURE, SUBSIDIARY TO PIPE INSTALLATION. 11. DENSITY TESTING OF COMPACTED BACKFILL SHALL BE MADE AT A RATE OF ONE TEST PER TWO FOOT LIFTS PER 500 FEET OF INSTALLED PIPE. 12. CONTRACTOR TO OBTAIN A WATER METER FROM THE CITY OF CEDAR PARK FOR ANY WATER THAT MAY BE REQUIRED DURING CONSTRUCTION. (512-401-5000) 13. ALL WATER METER BOXES SHALL BE FORD GULF METER BOX WITH LOCKING LID. • SINGLE G-148-233	INC. 7, TX 75069 20
 • DUAL DG-148-243 • 1" METER YL111 - 444 • 1 ½" – 2" METER 1730-R (LID) & 1730-12 (BOX)/ACCEPTABLE BOXES FOR THIS SIZE OF METER • 1 ½" – 2" METER 1730-R (LID) & 1730-R (LID) & 1730-12 (BOX)/ACCEPTABLE BOXES FOR THIS SIZE OF METER • 14. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE, WHEN IN PUBLIC STREETS, AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE 	, MCKINNES, M TX F-928
COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION. 15. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS IS THE BEST AVAILABLE AND MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 16. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH AT LEAST 8 MIL. POLYETHYLENE WRAP. 17. ALL WATER MAINS, WASTEWATER MAINS AND SERVICE LINES SHALL MEET CITY OF AUSTIN SPECIFICATIONS FOR MINIMUM COVER REQUIREMENTS. ALL STREETS ARE TO BE CUT TO SUBGRADE PRIOR TO INSTALLATION OF WATER MAINS OR CUTS WILL BE	T, SUITE 100 1-2580 FAX.
ISSUED BY THE ENGINEER. 18. CITY TO BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING OF WATER AND WASTEWATER LINES. CITY INSPECTION IS REQUIRED FOR ALL TESTING OF WATER AND WASTEWATER LINES. 19. WHERE A WATER OR WASTEWATER LINE CROSSES ABOVE (OR BELOW) A STORM SEWER STRUCTURE AND THE BOTTOM (OR TOP) OF THE PIPE IS WITHIN 18 INCHES OF THE TOP (OR BOTTOM) OF THE UTILITY STRUCTURE, THE PIPE SHALL BE ENCASED WITH CONCRETE FOR A DISTANCE OF AT LEAST 1 FT. ON EITHER SIDE OF THE DITCH LINE OF THE UTILITY STRUCTURE OR THE STORM SEWER. CONCRETE ENCASEMENT WILL NOT BE REQUIRED FOR DUCTILE IRON (THICKNESS CLASS 50), AWWA C-900 (SDR-18) 150 PSI RATED PVC IN SIZES TO 12 INCHES OR AWWA C-905 (SDR-25) 165 PSI RATED PVC IN SIZES LARGER THAN 12 INCHES. CONCRETE ENCASEMENT SHALL CONFORM TO C.O.A. STANDARD DETAIL 505-1.	2 KIMLEY-HG VIS STREE ONE: 469-30 WWW.KIMLE
 20. CONTRACTOR TO NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING UTILITIES. 21. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS. 22. TRACER TAPE SHALL BE INSTALLED ON ALL WATER AND WASTEWATER MAINS REGARDLESS OF THE TYPE OF PIPE OR DEPTH OF PIPE INSTALLED. 23. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60. 	260 EAST D/2
24. THE CITY CONSIDERS PROTECTION OF ITS WATER SYSTEM PARAMOUNT TO CONSTRUCTION ACTIVITIES. CITY PERSONNEL WILL OPERATE, OR AUTHORIZE THE CONTRACTOR TO OPERATE, ALL WATER VALVES THAT WILL PASS THROUGH THE CITY'S POTABLE WATER. THE CONTRACTOR MAY NOT OPERATE ANY WATER VALVE, EXISTING OR PROPOSED, THAT WILL ALLOW WATER FROM THE CITY'S WATER SYSTEM TO FLOW TO A PROPOSED OR EXISTING WATER SYSTEM WITHOUT THE EXPRESS CONSENT OF THE CITY. NOTIFY THE CITY TWO BUSINESS DAYS IN ADVANCE OF ANY REQUEST TO OPERATE A WATER VALVE. THE GENERAL CONTRACTOR MAY BE FINED \$500 OR MORE, INCLUDING ADDITIONAL THEFT OF WATER FINES, IF A WATER VALVE IS OPERATED IN AN UNAUTHORIZED MANNER, REGARDLESS OF WHO OPERATED THE VALVE. 25. ALL WATER VALVES OVER 24" IN SIZE SHALL HAVE A BY-PASS LINE AND VALVE INSTALLED. BY-PASS VALVES AND LINES ARE SUBSIDIARY TO THE COST OF THE VALVE UNLESS SPECIFICALLY IDENTIFIED ON THE BID FORM.	
 ALL WATER VALVES, INCLUDING THOSE OVER 12" IN SIZE, SHALL BE GATE VALVES. A DOUBLE CHECK BACKFLOW DEVICE IN A VAULT SHALL BE INSTALLED AT THE PROPERTY LINE ON ALL PRIVATE FIRE LINES. A DETECTOR WATER METER WILL BE INSTALLED ON THIS BACKFLOW DEVICE, AND IT MUST BE A SENSUS SRII 3/4" METER WITH AMI RADIO READ CAPABILITY. THE CITY WILL PROVIDE THIS METER. PLEASE REFERENCE THE CITY OF CEDAR PARK DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY DETAIL. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE "LEAD FREE" ACCORDING TO THE UNITED STATES SAFE DRINKING WATER ACT. THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT ARE FIRE HYDRANTS. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT BY MARKING, OR ON THE PRODUCT PACKAGING, OR BY PRE-APPROVED SUBMITTAL, WILL BE REJECTED FOR USE. A NSF CERTIFICATION WILL BE 	STATE OF TELAS
ADEQUATE IF THE CERTIFICATION HAS NOT EXPIRED AS OF JANUARY 4, 2014 AND REMAINS UNEXPIRED AT THE TIME OF CONSTRUCTION. 29. ALL PRESSURE PIPE SHALL HAVE MECHANICAL RESTRAINT AND CONCRETE THRUST BLOCKING AT ALL VALVES, BENDS, TEES, PLUGS, AND OTHER FITTINGS. STORM SEWER NOTES:	RYAN P. SCHUBERT
 MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION. CONTRACTOR SHALL BACKFILL AROUND MANHOLES AND JUNCTION BOXES WITH CLASS A CONCRETE. ALL MANHOLE LIDS SHALL BE 32" OR LARGER, UNLESS EXPRESSLY APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS IS THE BEST AVAILABLE AND MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 	
 PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES: UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, ALL STORM SEWER RCP SHALL BE CLASS III. CORRUGATED METAL PIPE IS NOT PERMITTED. ALL MANHOLE AND INLET COVERS SHALL READ "CITY OF CEDAR PARK". CONTRACTOR TO NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING UTILITIES. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60. 	PROJEC 274402 ATE AS SHO BY BY
 CONTRACTOR TO INSTALL AND MAINTAIN GEO-TEXTILE FABRIC BARRIER (INLET PROTECTION) AROUND STORM SEWER LEADS AND INLETS TO PREVENT SILT AND OTHER MATERIAL FROM ENTERING THE STORM SEWER COLLECTION SYSTEM. INSTALL CONCRETE SAFETY END TREATMENTS TO ALL CULVERTS AND ENDS OF DRAINAGE PIPE. ALL CURB INLETS SHALL HAVE AN ALMETEK 4" DISC "NO DUMPING DRAINS TO WATERWAY" MARKER. 	KHA F 0693 0693 0693 0693 0693 DECEM DECEM DESIGNEC
SEQUENCE OF CONSTRUCTION NOTES: THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE USED FOR ALL DEVELOPMENT. THE APPLICANT IS ENCOURAGED TO PROVIDE ANY ADDITIONAL DETAILS APPROPRIATE FOR THE PARTICULAR DEVELOPMENT. 1. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MEASURES.	NCH
 THE GENERAL CONTRACTOR MUST CONTACT THE CITY INSPECTOR AT 512-401-5000, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON-SITE PRECONSTRUCTION MEETING. THE GENERAL CONTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN. ROUGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE 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 CRITERIA MANUAL. AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM 	
EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S). 5. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. 6. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES. 7. UNDERGROUND UTILITIES WILL BE INSTALLED, INCLUDING FIRE HYDRANTS. 8. FIRE DEPARTMENT ACCESS WILL BE INSTALLED WHERE REQUIRED BY APPROVED SITE PLAN.	/ELSA R
 WETICAL CONSTRUCTION MAY OCCUR AFTER THE PRE-VERTICAL INSPECTION HAS BEEN CLEARED BY THE FIRE MARSHAL. VERMANENT WATER QUALITY PONDS OF CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE BEARING THE ENGINEER'S SEAL, SIGNATURE, AND DATE TO THE CITY INDICATING THAT CONSTRUCTION. INCLUDING REVEGETATION. IS COMPLETE AND IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER. A FINAL INSPECTION WILL BE SCHEDULED BY THE CITY INSPECTOR. 	
 13. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE CITY INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL COMPLETION WILL BE SCHEDULED BY THE CITY INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE CITY INSPECTOR. 14. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS. 	XIII A A X
Texas Commission on Environmental Quality Contributing Zone 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 ground disturbance or construction activities. This notice must include: - the name of the approved project;	DE DE
 - the activity start date; and - the contact information of the prime contractor. 2. All contractors conducting regulated activities associated with this project should be provided with complete copies of the approved Contributing Zone Plan (CZP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractor(s) should keep copies of the approved plan and approval letter onsite. 3. No hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature. 	λ X X S
 4. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, 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. 5. 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. 6. Sediment must be removed from the sediment traps or sedimentation basins when it occupies 50% of the basin's design capacity. 	PAF TES
 7. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite. 8. All excavated material that will be stored on-site must have proper E&S controls. 9. If portions of the site will have a cease in construction activity lasting longer than 14 days, soil TCEQ-0592A (Rev. July 15, 2015) Page 2 of 2 stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures 	DAR 2 NO
shall be initiated as soon as possible. 10. The following records should be maintained and made available to the TCEQ upon request: - the dates when major grading activities occur; - the dates when construction activities temporarily or permanently cease on a portion of the site; and	CED
- the dates when stabilization measures are initiated. 11. The holder of any approved CZP must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following: A. any physical or operational modification of any best management practices (BMPs) or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;	Т ОГ Т ОГ
 B. any change in the nature or character of the regulated activity from that which was originally approved; C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer; or D. any development of land previously identified as undeveloped in the approved contributing zone plan. Austin Regional Office San Antonio Regional Office 12100 Park 35 Circle, Building A 14250 Judson Road 	AN VER
12 100 Park 35 Circle, Building A 14250 Subshir Koad 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	SD-20-00020 SHEET NUMBER
	SHEET 9 OF 92

KH GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, CITY (OR TOWN) STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED 37. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO 24.AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.
- CONSTRUCTION. IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.
- 3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS
- 4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS. 5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE
- ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING BENCHMARKS. 6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC 42.CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES
- TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER IMMEDIATELY.
- SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW. 8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.
- 9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL
- 10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF
- THE AFFECTED ITEM 11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY
- PRIOR TO COMMENCING WITH CONSTRUCTION. 12.IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION
- 13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO 52. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE COMMENCING CONSTRUCTION OR ANY EXCAVATION 14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS
- KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES. 15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED 55. CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION. d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND 56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS. INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO 1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY. AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS
- 17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.
- UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH SERVICE TO THE PROPOSED DEVELOPMENT. 19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE5. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION,
- CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR 6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL MODIFICATION, AND REMOVAL FOR EACH BMP EMPLOYED IN THE STORM WATER BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK
- TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF 8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY PROTECTS HAS BEEN PERMANENTLY STABILIZED. ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM.
- 21 CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR 10. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL 5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND SHALL COMPLY WITH ALL APPLICABLE LOCAL. STATE. FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES. 22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED
- CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION. 23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY NOTIFY THE ENGINEER. OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND 11. OFF-SITE SOIL BORROW, SPOIL, AND STORAGE AREAS (IF APPLICABLE) ARE ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS
- SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE. 25 ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES.
- JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES. 26.CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS
- 27.CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- 28.ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC....) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR.
- TERMINATES 5-FEET FROM THE BUILDING. REFERENCE THE BUILDING PLANS (E.G. ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY SPECIFICATIONS. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE AND WITHIN THE BUILDING FOOTPRINT 30.REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING 15.SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL
- DIMENSIONS 31. THE PROPOSED BUILDING FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO TO KIMLEY-HORN AND ASSOCIATES. INC. (KH) BY THE PROJECT ARCHITECT AT THE AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE 17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S 18. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC.....)
- AND TO CONFIRM ITS FINAL POSITION ON THE SITE BASED ON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAT. ANY DIFFERENCES FOUND SHALL BE REPORTED TO KH ARRANGE FOR AN APPROPRIATE DESIGN TO BE PROVIDED. IMMEDIATELY 32. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL
- REPORT (OR LATEST EDITION). INCLUDING SUBSEQUENT ADDENDA 33. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING. 34. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER,
- ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY. 35.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW. BY THE STANDARD
- TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 36.DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE

BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING. IF NONE IS CURRENTLY EXISTING. RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO

- 38. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, 2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER. 39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL
 - DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC.... TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.
- BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT. TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR AND ARE BASED 41 THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES SIGNS WATER
- CONSTRUCTION SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS
- FREE OF OBSTRUCTIONS AT ALL TIMES. 43. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH 7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY. OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
 - 44. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER. 45 SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR
 - 46.THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS
 - 47. SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS 48.CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION
 - OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS. 49.LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES. 50.ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL
- COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". 51. TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING
 - HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.
 - 53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING 4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS.
 - 54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER, BY THE CITY OF A TRAFFIC CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION AND THEN THE IMPLEMENTATION OF THE PLAN
 - INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS. THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE I AND DISTURBANCE

2 CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION **SYSTEM TXR 150000"** 3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE

18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE. THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT

- POLITION PREVENTION PLAN (SWPPP) IF APPLICABLE 7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION 20.BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAILS. SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS
 - 9. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED 4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO DUF TO PROJECT PHASING
 - DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENTATION FROM WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL

CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE 24 ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN

- 12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.
- 13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES. BMPS. DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE, TO VERIFY THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY. 29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS 14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT
 - STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS. PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE
 - 16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE OFF-SITE ROADWAYS.
 - EXITING THE SITE, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP BMP DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES. PER TCEQ AND CITY
 - STANDARDS. IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL 19. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR.
 - 20. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE 19. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED. WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE. 21. TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED
 - WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE
 - 22.CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES.

COVER

DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.

PREVENTION REQUIREMENTS

SYSTEM TXR 150000 DISCHARGE FROM THE SITE

STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPP

6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE 29. CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL STRUCTURES OR OTHER STORM PIPES SHALL HAVE A CONCRETE COLLAR CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION. 7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS 9. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVA OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURES, A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE CITY STANDARD TREE PROTECTION DETAILS AND THE APPROVED TREE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO THE OPERATOR OF ANY MS431.CONTRACTOR SHALL REFER TO THE LANDSCAPING AND TREE PRESERVATIONS RECEIVING DISCHARGE FROM THE SITE.

DEMOLITIO

THEIR FACILITIES.

DEMOLITION PLAN

COMPLY

ALSO TO BE REMOVED.

TOP OF FINISHED GRADE ELEVATIONS SHOWN.

CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE. THE LIMITS OF FARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE PAVEMENT SECTION 8. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAIL AND BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY 9. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) 8. FIRE SPRINKLER LINES SHALL BE DESIGNED AND INSTALLED BY A LICENSE SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER.

ADDENDA.

ADDITIONAL INFORMATION AND REQUIREMENTS

TO EARTHWORK.

FREE OF OBSTRUCTIONS AT ALL TIMES.

RUN-OFF

ENGINEER PRIOR TO PLACEMENT.

23. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A UNIFORM PERENNIAL VEGETATIVE

STORM WATER DISCHARGE AUTHORIZATION

2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL

THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NO TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF 40. ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION, ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MS4 (TYPICALLY THE CITY) RECEIVING

> WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SITE NOTICE. INSPECTIONS. DOCUMENTATION. AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI). ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR CERTIFICATION

> KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE 2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED

BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL MINIMUM. SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF

3 THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE THE APPROVAL OF THE CIVIL ENGINEER IS OBTAINED. SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.

DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE D. ASBESTOS BUILDING INSPECTION REPORT(S) PROVIDED BY THE OWNER,

GEOTECHNICAL REPORT PROVIDED BY THE OWNER

5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO STARTING ANY WORK ON THE SITE. 6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL

REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS. RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS. AND

KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED. 8 SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES SUCH AS ADDITIONAL LAYERS OF PAVEMENT, FOUNDATIONS OR WALLS, THAT ARE FOLLOWED.

THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIEV THE BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY. 3. UNLESS OTHERWISE NOTED. PROPOSED CONTOURS AND SPOT ELEVATIONS

ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB ELEVATION.

DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY. 6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED

9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL

10. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS FROM SITE CLEARING AND GRUBBING SHALL BE REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE. PROJECT SHALL BE INSTALLED PRIOR TO THE START OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR

12.BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY

THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE PLAN REQUIREMENTS FOR PUBLIC PAVEMENT. DISPOSED, ALONG WITH THE RECEIVING LANDOWNER'S APPROVAL TO DO SO. THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE GEOTECHNICAL STANDARDS. ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL. 17. ALL JOINTS SHALL EXTEND THROUGH THE CURB.

CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TO EXISTING PAVEMENT. TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED. 17. TEMPORARY CULVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY

20.CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS ESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE

AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.

22.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW. BY THE STANDARD TESTING PROCEDURES OF THE SOILS. THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.

23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FILL, CONDITIONING, AND PREPARATION IN THE BUILDING PAD. 24.DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING. THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK

CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE 2. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STOL FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING. PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION 25. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE. CONDITION. HORIZONTAL BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED

CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION. 26 THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS A

CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER. OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM 27. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE PROPOSED GRADE, INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL REFER SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFIC TO THE GENERAL NOTES "OVERALL" SECTION THESE PLANS FOR ADDITIONAL INFORMATION

> 28.EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER.

PROTECTED TREE CRITICAL ROOT ZONES, AND PROPOSED SITE GRADING, AND WITH THE TREE PRESERVATION PLAN BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING THE WORK

PRESERVATION PLANS BY THE LANDSCAPE ARCHITECT.

PLANS FOR ALL INFORMATION AND DETAILS REGARDING EXISTING TREES TO BE REMOVED AND PRESERVED 32.NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN

ISSUED BY THE CITY, OR CITY HAS OTHERWISE CONFIRMED IN WRITING THAT ONE SEWER LINES. IS NOT NEEDED FOR THE TREE(S). 33.NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF CITY STANDARD DETAILS. THE OWNER OR OWNER'S REPRESENTATIVE. EXISTING TREES SHALL BE

PRESERVED WHENEVER POSSIBLE AND GRADING IMPACT TO THEM HELD TO A IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE 34.AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALI ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED

35 CONTRACTOR FIFLD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED. II TAINING WALLS

RETAINING WALLS SHOWN ARE FOR SITE GRADING PURPOSES ONLY, AND INCLUDE ONLY LOCATION AND SURFACE SPOT ELEVATIONS AT THE TOP AND BOTTOM OF THE WALL

2. RETAINING WALL TYPE OR SYSTEM SHALL BE SELECTED BY THE OWNER. 3. RETAINING WALL DESIGN SHALL BE PROVIDED BY OTHERS AND SHALL FIT IN THE SHALL REFER TO THE GEOTECHNICAL REPORT FOR POND LINER SPECIFIC WALL ZONE OR LOCATION SHOWN ON THESE PLANS. STRUCTURAL DESIGN AND 3. A GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE ALL POND LINE PERMITTING OF RETAINING WALLS. RAILINGS, AND OTHER WALL SAFETY DEVICES MATERIAL, PLACEMENT PROCEDURES, AND PROVIDE TESTING TO ENSURE SHALL BE PERFORMED BY A LICENSED ENGINEER AND ARE NOT PART OF THIS PLAN SET

4. RETAINING WALL DESIGN SHALL MEET THE INTENT OF THE GRADING PLAN AND SHALL ACCOUNT FOR ANY INFLUENCE ON ADJACENT BUILDING FOUNDATIONS. UTILITIES. PROPERTY LINES AND OTHER CONSTRUCTABILITY NOTES. 5. RETAINING WALL ENGINEER SHALL CONSULT THESE PLANS AND THE GEOTECHNICAL REPORT FOR POTENTIAL CONFLICTS.

1 ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS. THE CITY STANDARD DETAILS AND SPECIFICATIONS. THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA. AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS WATERTIGHT. OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION/DETAIL SHALL BE

2. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING ALL ADDENDA.

3 ALL FIRELANE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES STANDARDS AND DETAILS. IF THESE ARE DIFFERENT THAN THOSE IN THE AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL GEOTECHNICAL REPORT, THEN THE MORE RESTRICTIVE SHALL BE FOLLOWED. 4. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS. CONSTRUCTION DETAILS AND SPECIFICATIONS 5. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING VERTICAL LOCATIONS OF ALL EXISTING WATER AND WASTEWATER FACILIT AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR

PAVING AND PAVING SUBGRADE TESTING. 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW. BY THE STANDARD 4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY TESTING PROCEDURES OF THE PAVING AND PAVING SUBGRADE, THAT THE WORK CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE. CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 5. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND

BUILDING. THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY FLATWORK ADJACENT TO THE BUILDING. IF NONE IS CURRENTLY EXISTING. 8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL 7. ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTUR SPECIFICATIONS.

SHALL CONFORM TO ADA AND TAS STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.

10. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TAS STANDARDS, LATEST EDITION. 11. ANY COMPONENTS OF THE PROJECT SUBJECT TO RESIDENTIAL USE SHALL ALSO SHALL BE PER CITY STANDARD DETAILS. CONFORM TO THE FAIR HOUSING ACT, AND COMPLY WITH THE FAIR HOUSING ACT 10. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWIN DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

1. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE 12. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION. 13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE

LANES. PARKING STALLS. HANDICAPPED PARKING SYMBOLS. AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND PAVEMENT MARKINGS SHALL ADHERE TO CITY AND OWNER STANDARDS ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED 14. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN

REQUIREMENTS FOR PRIVATE PAVEMENT 3. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER 15. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT

CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS 16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT. CITY STANDARDS, AND ASTM A-615, GRADE 60, AND SHALL BE SUPPORTED BY BAR 14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE CITY AND

15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES 18. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS 19. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO BEGINNING ANY OF THE PAVING WORK

16.NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, 20.ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION ADDITIONAL COMPENSATION SHALL BE ALLOWED. 21.FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY

STANDARDS 22.UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND 18. REFER TO DIMENSION CONTROL PLAN, AND PLAT FOR HORIZONTAL DIMENSIONS. OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE CONDITION FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. 23.CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT, ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND

ARCHITECT) SHALL BE CONSULTED. 24.BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, AND FHA) EXIST TO AND FROM 9-FEET FROM THE CROSSING.

EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS 21.ALL CROSSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FE AISLES, AND ACCESSIBLE ROUTES, IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK 22. ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FRO SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WI

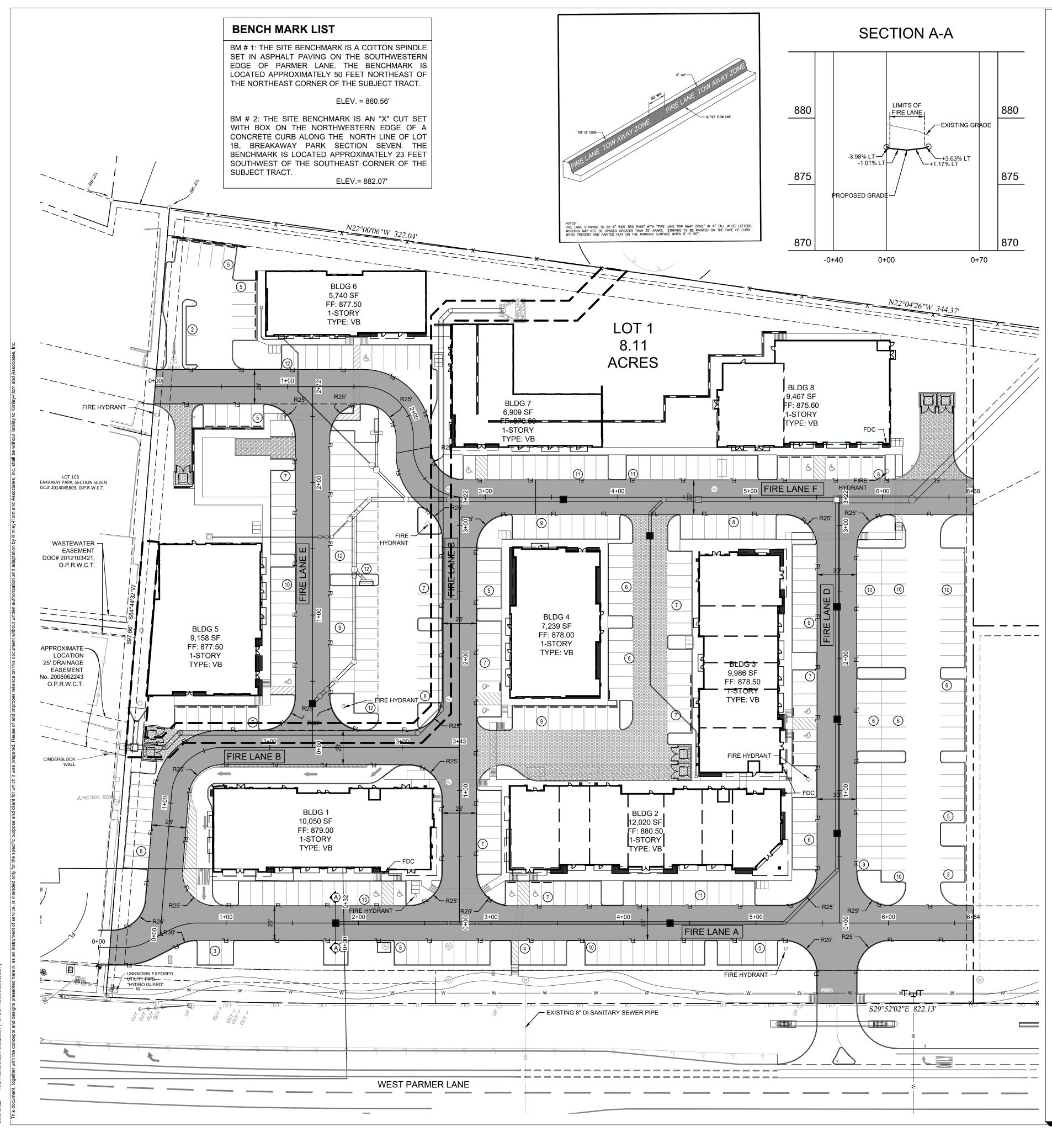
STORM DRAINAGE

VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER FACILITIES THAT A BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE BE CONNECTED TO PRIOR TO START OF CONSTRUCTION OF ANY STORM AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. 4. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHO GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.

30. TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE 10. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP BE USED 11.IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PR

7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE WA WASTEWATER IMPROVEMENTS

	TCEQ CHAPTER 290.44. 23.ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY,	B
	AWWA, AND TCEQ STANDARDS AND SPECIFICATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING: a. ALL WATERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED	DATE
CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE COMPLIANCE ISSUES.	BEFORE BEING PLACED INTO SERVICE. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS.	
1. ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY	D. WASTEWATER LINES AND MANHOLES SHALL BE PRESSURE TESTED. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED	
STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS. 2. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM	PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. AFTER COMPLETION OF THESE TESTS, A TELEVISION INSPECTION SHALL BE PERFORMED AND PROVIDED TO THE CITY AND OWNER ON A DVD.	
SEWER. 3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER FACILITIES THAT ARE TO	24.CONTRACTOR SHALL INSTALL DETECTABLE WIRING OR MARKING TAPE A MINIMUM OF 12" ABOVE WATER AND WASTEWATER LINES. MARKER DECALS SHALL BE LABELED "CAUTION - WATER LINE", OR "CAUTION - SEWER LINE". DETECTABLE	
BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED.	WIRING AND MARKING TAPE SHALL COMPLY WITH CITY STANDARDS, AND SHALL BE INCLUDED IN THE COST OF THE WATER AND WASTEWATER PIPE.	REVISIONS
INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.	25.DUCTILE IRON PIPE SHALL BE PROTECTED FROM CORROSION BY A LOW-DENSITY POLYETHYLENE LINER WRAP THAT IS AT LEAST A SINGLE LAYER OF 8-MIL. ALL DUCTILE IRON JOINTS SHALL BE BONDED.	
 FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION. 	26.WATERLINES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER REQUIRED BY THE CITY. 27.CONTRACTOR SHALL PROVIDE CLEAN-OUTS FOR PRIVATE SANITARY SEWER LINES	
6. ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.	AT ALL CHANGES IN DIRECTION AND 100-FOOT INTERVALS, OR AS REQUIRED BY THE APPLICABLE PLUMBING CODE. CLEAN-OUTS REQUIRED IN PAVEMENT OR SIDEWALKS SHALL HAVE CAST IRON COVERS FLUSH WITH FINISHED GRADE.	
7. ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL	28.CONTRACTOR SHALL PROVIDE BACKWATER VALVES FOR PLUMBING FIXTURES AS REQUIRED BY THE APPLICABLE PLUMBING CODE (E.G. FLOOR ELEVATION OF	
ARRANGE FOR REQUIRED CITY INSPECTIONS.8. ALL PVC TO RCP CONNECTIONS AND ALL STORM PIPE CONNECTIONS ENTERING STRUCTURES OR OTHER STORM PIPES SHALL HAVE A CONCRETE COLLAR AND BE	FIXTURE UNIT IS BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER). CONTRACTOR SHALL REVIEW BOTH MEP AND CIVIL PLANS TO CONFIRM WHERE THESE ARE REQUIRED.	
GROUTED TO ASSURE THE CONNECTION IS WATERTIGHT. 9. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES 18-INCHES AND GREATER SHALL BE CLASS III RCP OR	29. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE	
OTHER APPROVED MATERIAL. 10. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED.	FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN	75069
11.IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO THE OWNER,	APPROVAL OF THE CITY. 00. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.	8820 NC.
ENGINEER AND CITY ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. ANY PROPOSED HDPE AND PVC SHALL BE WATERTIGHT. 12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM	ABBREVIATIONS AND DEFINITIONS:	CIATES CCINNE CCINNE 2-239-3
SEWER LINES. 13.EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.	A AREA ADA AMERICANS WITH DISABILITIES ACT	ASSO ASSO AX: 972 AX: 972 COM T
14. ALL WYE CONNECTIONS AND PIPE BENDS ARE TO BE PREFABRICATED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.	AWWAAMERICAN WATER WORKS ASSOCIATIONB-BBACK TO BACKBCBACK OF CURB	N AND SUITE S 580 FJ
 15. USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET. 16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH 	BCRBEGIN CURB RETURNBMPBEST MANAGEMENT PRACTICE	V-HOR 3-301-2 ALEY-F
SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY,	BOCBACK OF CURBBVCEBEGIN VERTICAL CURVE ELEVATIONBVCSBEGIN VERTICAL CURVE STATION	VW.KIN
STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.	BW BOTTOM OF WALL CFS CUBIC FEET PER SECOND	© 2022 I ST DAV PHON
17. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.	CITY CITY, TOWN, OR OTHER APPLICABLE LOCAL GOVERNMENT JURISDICTION CL CENTERLINE CONC CONCRETE	
POND NOTES: 1. ANY PONDS THAT ARE INTENDED TO HOLD WATER INDEFINITELY SHALL BE CONSTRUCTED WATERTIGHT.	CY CUBIC YARD DEMO DEMOLITION	
 FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR POND LINER SPECIFICATIONS. A GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE ALL POND LINER 	EA EACH EG EXISTING GROUND EL ELEVATION	
MATERIAL, PLACEMENT PROCEDURES, AND PROVIDE TESTING TO ENSURE THE POND LINER MATERIAL PLACED IS WATERTIGHT. 4. STORM SEWER PIPES AND HEADWALLS THAT CONNECT TO A POND INTENDED TO	ELECELECTRICAL / ELECTRICITYELEVELEVATION	SATE OF TELAS
HOLD WATER INDEFINITELY SHALL BE INSTALLED WITH WATERTIGHT JOINTS TO AT LEAST 1-FOOT ABOVE THE NORMAL POOL WATER SURFACE ELEVATION.	EPAUNITES STATES ENVIRONMENTAL PROTECTION AGENCYESMTEASEMENTEVCEEND VERTICAL CURVE ELEVATION	RYAN P. SCHUBERT
5. ANY GRAVEL OR OTHER PERVIOUS EMBEDMENT AROUND PIPES OR OUTFALL STRUCTURES NEAR THE POND SHALL BE ELIMINATED FOR AT LEAST 20-FEET FROM THE POND SO NO ROUTE FOR WATER TO LEAK THROUGH THE EMBEDMENT	EVCL END VERTICAL CORVE ELEVATION EVCS END VERTICAL CURVE STATION EX. EXISTING	145714 72. //ozu65
MATERIAL IS PROVIDED. BACKFILL IN THESE AREAS SHALL BE OF IMPERVIOUS MATERIAL. 6. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE WATER LEVEL	F-F FACE TO FACE FG FINISHED GROUND FH FIRE HYDRANT	SSONAL ENGL
FOLLOWING COMPLETION AND FILLING OF THE POND SHALL BE MONITORED BY THE CONTRACTOR FOR AT LEAST 60 DAYS TO OBSERVE WATER INFLOW, OUTFLOW, AND CALCULATE EVAPORATION TO VERIFY THAT THE POND IS	FL FLOW LINE 1 FOC FACE OF CURB	
WATERTIGHT. 7. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE POND WATER	FT FEET HGL HYDRAULIC GRADE LINE KH KIMLEY-HORN AND ASSOCIATES, INC.	
LEVEL SHALL ALSO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION SO THAT IT REMAINS FULL TO ITS DESIGN WATER LEVEL, AND IS NOT LOWERED, AS THIS MAY DRY-OUT THE POND LINER AND RISK ITS	KHA KIMLEY-HORN AND ASSOCIATES, INC. LAT LATERAL	PL ATE
WATERTIGHT PROPERTIES. WATER AND WASTEWATER:	LF LINEAR FEET MAX MAXIMUM ME MATCH EXISTING ELEVATION	KHA PR 06927 06927 DECEMBI SCALE AS SCALE AS DESIGNED B DESIGNED B DRAWN BY CHECKED BY
1. ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.	MH MANHOLE – MIN MINUTE / MINIMUM	
2. CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AND WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY	NO NUMBER NOI NOTICE OF INTENT, REF. TCEQ GENERAL PERMIT NOT NOTICE OF TERMINATION, REF. TCEQ GENERAL PERMIT	
WATER OR WASTEWATER CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. 3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN,	NTS NOT TO SCALE OFF OFFSET	ANCH
INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING. 4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY	OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PC POINT OF CURVATURE PCC PORTLAND CEMENT CONCRETE / POINT OF COMPOUND CURVATURE	RAN ^{3K, TE)}
CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE. 5. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND	PGLPROPOSED GRADE LINEPIPOINT OF INFLECTION	
 APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE WATER AND WASTEWATER IMPROVEMENTS. 6. ALL PUBLIC WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FUTURE AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FUTURE AND ADDRESS AND ADDRESS	PROP PROPOSED PRC POINT OF REVERSE CURVATURE PSI POUNDS PER SQUARE INCH	VELS/
FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.	PT POINT OF TANGENCY PVC POLYVINYL CHLORIDE	>
 ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS. 	PVI POINT OF VERTICAL INFLECTION PVMT PAVEMENT RCP REINFORCED CONCRETE PIPE	
8. FIRE SPRINKLER LINES SHALL BE DESIGNED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR, AND COMPLY TO THE APPLICABLE CODES AND	ROWRIGHT OF WAYSFSQUARE FEET	a l ^
INSPECTIONS REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRINKLER DESIGN. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES.	SS SANITARY SEWER SSMH SANITARY SEWER MANHOLE STA STATION	
 EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY 	STDSTANDARDSYSQUARE YARD	
CITY, TCEQ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS. 11. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER AND	TASARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDSTCTOP OF CURBTCEQTEXAS COMMISSION OF ENVIRONMENTAL QUALITY	
WASTEWATER LINES. 12. ALL WATER AND WASTEWATER SERVICES SHALL TERMINATE 5-FEET OUTSIDE THE	TEMP TEMPORARY TXDOT TEXAS DEPARTMENT OF TRANSPORTATION	
BUILDING, UNLESS NOTED OTHERWISE. 13. CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT IN DESCRIPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT	TXMUTCD TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES TW TOP OF WALL TYP TYPICAL © COPYRIGHT 2021 KIMI EX-HORN AND ASSOCIATES INC	
IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT. 14.CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO	VC VERTICAL CURVE ALL RIGHTS RESERVED WTR WATER	
AVOID INTERRUPTION OF SERVICE TO SURROUNDING PROPERTIES. 15.CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION (IF NECESSARY, BY USE OF		л С С
TEMPORARY METHODS APPROVED BY THE CITY AND OWNER). THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL	THESE PLAN AND GENERAL NOTES REFER TO: GEOTECHNICAL ENGINEERING	RN
COMPENSATION SHALL BE ALLOWED. 16. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED	REPORT BRAUN INTERTEC CORPORATION	9 9 9
LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.	(PROJ./REPORT #) B2007025 (DATE) <u>SEPTEMEBER 3, 2020</u>	
17. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED PAVEMENT.	INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN	A E
18. THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL	REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.	
COMPENSATION SHALL BE ALLOWED. 19. ALL FIRE HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR THRUST BLOCKED TO CITY		KIML
STANDARDS. 20.CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE JOINTS ARE GREATER THAN		УШ
9-FEET FROM THE CROSSING. 21.ALL CROSSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FEET		SD-20-00020
FROM WATER, WASTEWATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 217.53. 22.ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM		SHEET NUMBER
WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH		SHEET 10 OF 92



SAVED TED BY PATH NAMF

FIRE PROTECTION NOTES

1. FIRE APPARATUS ACCESS ROADS SHALL

a. HAVE AN INSIDE RADIUS OF 25 FEET THROUGHOUT THE TURNING MOVEMENT, AND AN OUTSIDE RADIUS OF 50 FEET; ALL RADII LABELED ON PLANS b. BE INSTALLED SUCH THAT NO DEAD-END STRETCH IS GREATER THAN 150 FEET IN LENGTH

WITHOUT AN APPROVED AREA FOR TURNING AROUND FIRE APPARATUS c. HAVE A MINIMUM INSIDE RADIUS OF 28 FEET FOR ALL TURNAROUNDS d. HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET; 26 FEET REQUIRED WHEN HYDRANTS ARE PRESENT ALONG THE FIRE APPARATUS ACCESS ROAD OR FOR AERIAL APPARATUS ACCESS ROADS

e. IF LONGER THAN 500 FEET, HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 26 FEET f. HAVE AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES; AERIAL APPARATUS ACCESS ROADS SHALL HAVE NO VERTICAL OVERHANGS

THE CEDAR PARK FIRE DEPARTMENT'S APPARATUS i. CURRENTLY, CEDAR PARK REQUIRES THAT NO GRADE SHALL BE STEEPER THAN 12%; NO ANGLES OF APPROACH OR DEPARTURE SHALL HAVE AN ALGEBRAIC DIFFERENCE OF GREATER THAN

8% WITHIN ANY 50-FOOT LENGTH h. BE MARKED BY LINES OF RED TRAFFIC PAINT OR DYE A MINIMUM OF 6 INCHES IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE

i. THE WORDS "FIRE LANE TOW AWAY ZONE" SHALL APPEAR IN 4 INCH WHITE LETTERS NO **GREATER THAN 35 FEET APART**

a. THESE WORDS SHALL BE MARKED WITHIN THE RED STRIPE ii. FIRE LANE STRIPING SHALL BE CONTINUOUS THROUGHOUT iii. CURB FACING SHALL BE USED WHERE AVAILABLE a. WHERE THERE IS NO CURB, LAY DOWN STRIPING SHALL BE USED

2. BE MAINTAINED IN AN EASILY DISTINGUISHABLE CONDITION THROUGHOUT CONSTRUCTION a. WHERE THIS IS IMPOSSIBLE OR IMPRACTICAL, SIGNS APPROVED BY THE FIRE CODE OFFICIAL

MAY BE USED i. ALL CONSTRUCTION VEHICLES AND CONSTRUCTION WORKER VEHICLES MUST BE PARKED ON SITE

ii. NO VEHICLE SHALL BE ALLOWED TO PARK OR STOP IN THE FIRE APPARATUS ACCESS ROADS WHETHER OCCUPIED OR UNOCCUPIED

3. FIRE LANE SHALL EXTEND TO WITHIN

a. 150 FEET OF ALL PORTIONS OF THE FACILITY b. ALL PORTIONS OF THE EXTERIOR WALLS OF THE FIRST STORY OF THE BUILDING AS MEASURED BY AN APPROVED ROUTE AROUND THE EXTERIOR OF THE BUILDING c. INTO INTERIOR COURTYARDS AS APPROVED BY THE FIRE CODE OFFICIAL

4. PLEASE NOTE THAT FIRE APPARATUS ACCESS ROADS SHALL BE INSTALLED a. PRIOR TO COMBUSTIBLE MATERIALS ARRIVING ON SITE AND b. PRIOR TO THE ONSET OF VERTICAL CONSTRUCTION

5. COMPACTED ROAD BASE

a. CONTRACTOR SHOULD PLAN TO INSTALL FIRST LIFT OF ASPHALT. b. ROAD BASE IS NOT CONSIDERED A SUBSTITUTE FOR AN APPROVED FIRE APPARATUS ACCESS ROAD. WITH THE FOLLOWING EXCEPTION:

i. COMPACTED BASE MAY BE USED AS FIRE APPARATUS ACCESS ROAD DURING CONSTRUCTION IF APPROVED BY THE FIRE MARSHAL'S OFFICE. a. PERMISSION MUST BE GRANTED IN PERSON

b. A COMPACTION REPORT SHALL BE SUBMITTED BY A THIRD-PARTY GROUP PRIOR TO VERTICAL CONSTRUCTION AND AT ANY TIME THROUGHOUT THE CONSTRUCTION PROCESS WHEN DEEMED NECESSARY BY THE FIRE MARSHAL'S OFFICE

c. REQUIRED COMPACTION IS 100% OF OPTIMAL DENSITY THROUGHOUT d. FAILURE TO MAINTAIN COMPACTED BASE MAY RESULT IN A HALT IN CONSTRUCTION UNTIL ACCESS IS RESTORED ACCORDING TO THESE STANDARDS. e. EVEN WITH COMPACTED BASE, ALL CONCRETE DRIVEWAY APPROACHES MUST BE INSTALLED.

FIRE DEPARTMENT CONNECTIONS (FDC)

1. FIRE DEPARTMENT CONNECTIONS MUST

a. BE INSTALLED ON THE FRONT OF THE BUILDING,

i. IN A LOCATION THAT IS READILY VISIBLE FROM THE APPROVED FIRE APPARATUS ACCESS ROAD

ii. HAVE A MINIMUM OF 36 INCHES OF CLEAR SPACE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FDC

THE CONNECTION DOES NOT OBSTRUCT THE FIRE APPARATUS ACCESS ROAD FOR OTHER ARRIVING FIRE APPARATUS

- iv. NOT BE BLOCKED FROM VIEW OR USE BY
- a. STRUCTURAL MEMBERS b. PARKING SPACES
- c. TREES
- d. LANDSCAPING, ETC.

v. A WHITE REFLECTOR IS REQUIRED TO BE MOUNTED IN THE CENTER OF THE ADJACENT DRIVE TO MARK THE FDC LOCATION

2. WHERE AN FDC IS SUBJECT TO IMPACT BY A MOTOR VEHICLE a. GUARD POSTS SHALL BE CONSTRUCTED AS SET FORTH IN IFC SECTION 312 AND COMPLY WITH

THE FOLLOWING REQUIREMENTS: i. GUARD POSTS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: ii. CONSTRUCTED OF STEEL NOT LESS THAN 4 INCHES IN DIAMETER, FILLED COMPLETELY WITH

CONCRETE iii. SPACED NOT MORE THAN 4 FEET ON CENTER BETWEEN POSTS iv. SET NOT LESS THAN 3 FEET DEEP IN A CONCRETE FOOTING OF NOT LESS THAN 15 INCHES I

DIAMETER v. SET WITH THE TOP OF THE POSTS NOT LESS THAN 3 FEET ABOVE GRADE vi. LOCATED NOT LESS THAN 3 FEET FROM THE PROTECTED OBJECT

3. A REMOTE FDC MAY BE USED WHERE APPROVED BY THE FIRE CODE OFFICIAL; THIS IS RARE a. DETAILED PLANS SHALL BE REQUIRED IN THIS CASE.

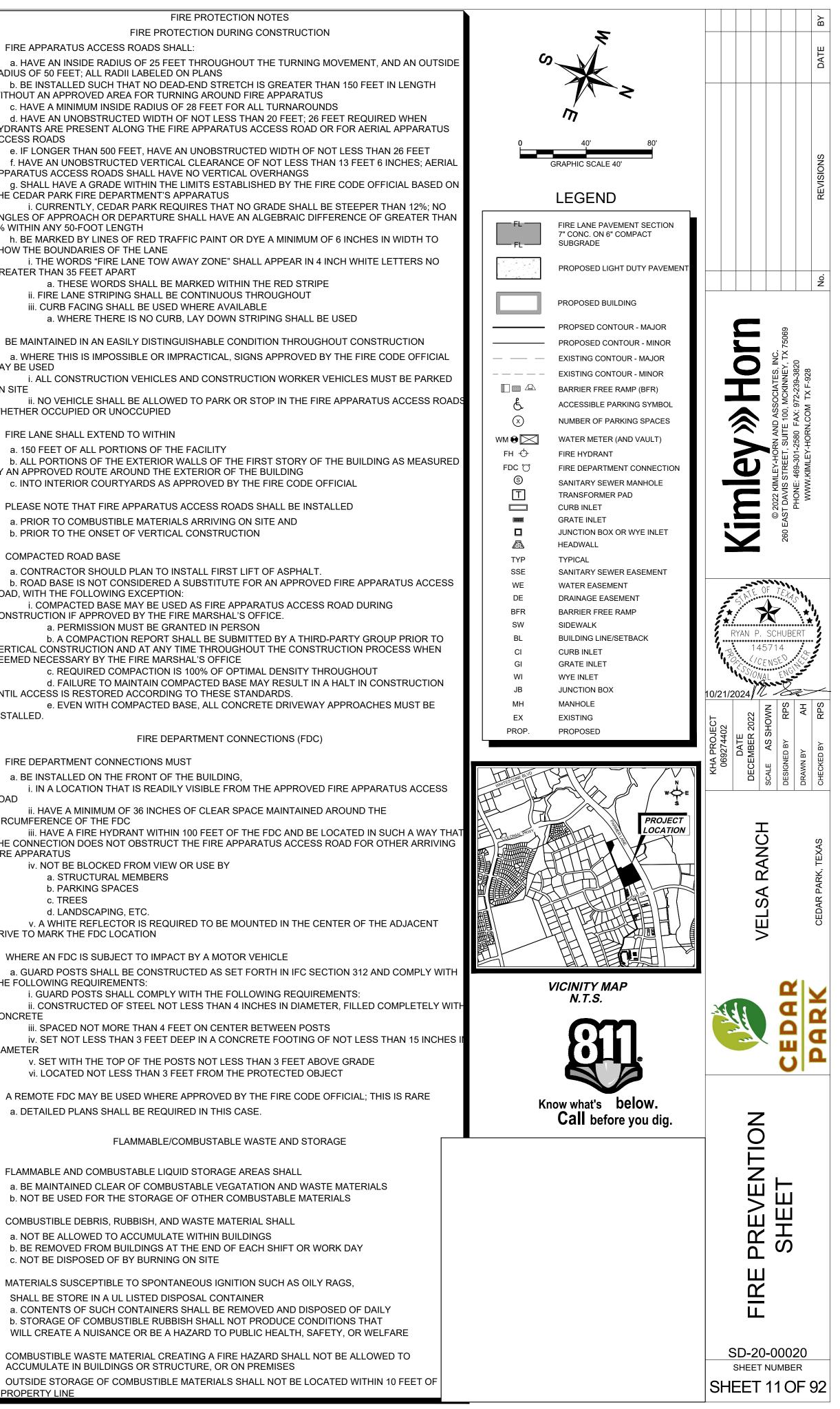
FLAMMABLE/COMBUSTABLE WASTE AND STORAGE

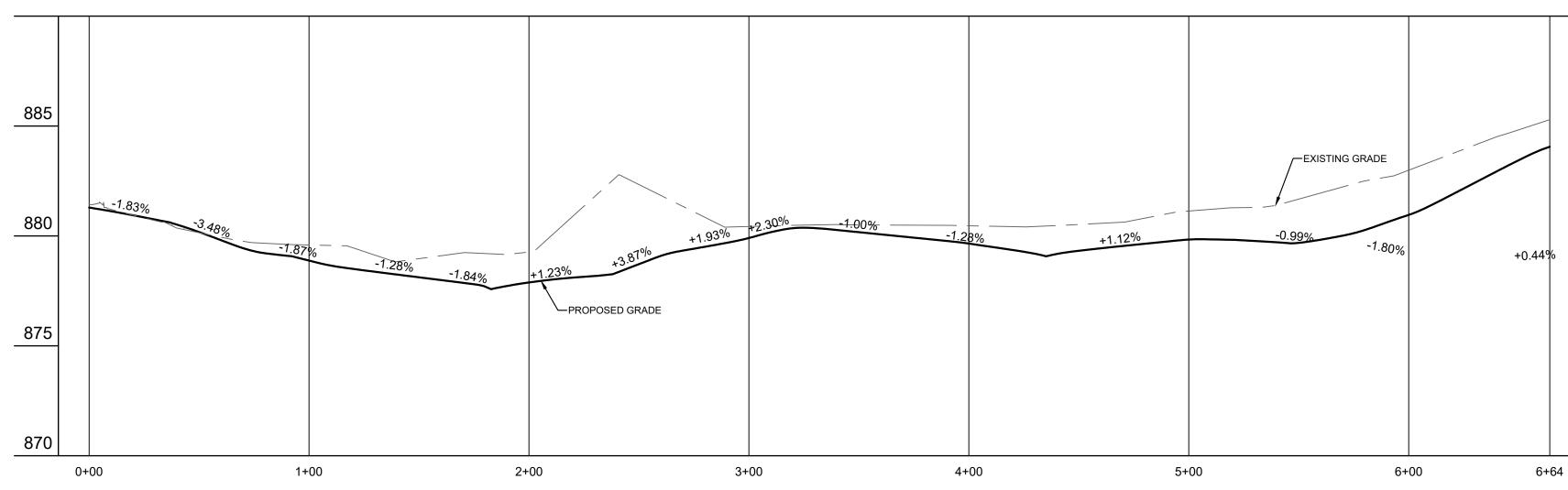
1. FLAMMABLE AND COMBUSTABLE LIQUID STORAGE AREAS SHALL a. BE MAINTAINED CLEAR OF COMBUSTABLE VEGATATION AND WASTE MATERIALS b. NOT BE USED FOR THE STORAGE OF OTHER COMBUSTABLE MATERIALS

2. COMBUSTIBLE DEBRIS, RUBBISH, AND WASTE MATERIAL SHALL a. NOT BE ALLOWED TO ACCUMULATE WITHIN BUILDINGS b. BE REMOVED FROM BUILDINGS AT THE END OF EACH SHIFT OR WORK DAY c. NOT BE DISPOSED OF BY BURNING ON SITE

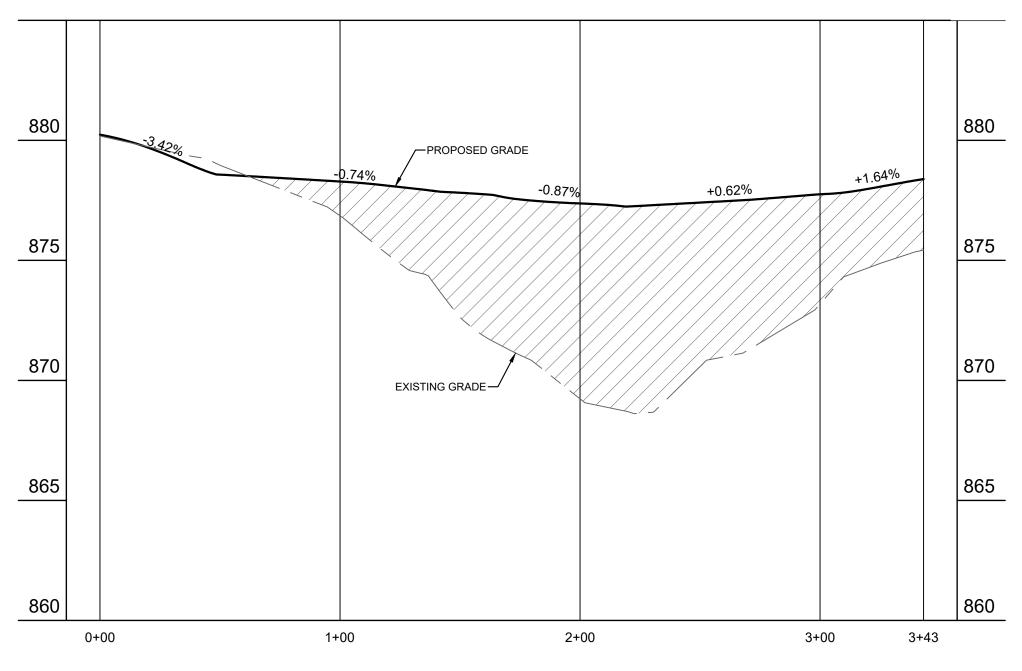
3. MATERIALS SUSCEPTIBLE TO SPONTANEOUS IGNITION SUCH AS OILY RAGS, SHALL BE STORE IN A UL LISTED DISPOSAL CONTAINER a. CONTENTS OF SUCH CONTAINERS SHALL BE REMOVED AND DISPOSED OF DAILY b. STORAGE OF COMBUSTIBLE RUBBISH SHALL NOT PRODUCE CONDITIONS THAT WILL CREATE A NUISANCE OR BE A HAZARD TO PUBLIC HEALTH, SAFETY, OR WELFARE

4. COMBUSTIBLE WASTE MATERIAL CREATING A FIRE HAZARD SHALL NOT BE ALLOWED TO ACCUMULATE IN BUILDINGS OR STRUCTURE, OR ON PREMISES 5. OUTSIDE STORAGE OF COMBUSTIBLE MATERIALS SHALL NOT BE LOCATED WITHIN 10 FEET OF A PROPERTY LINE



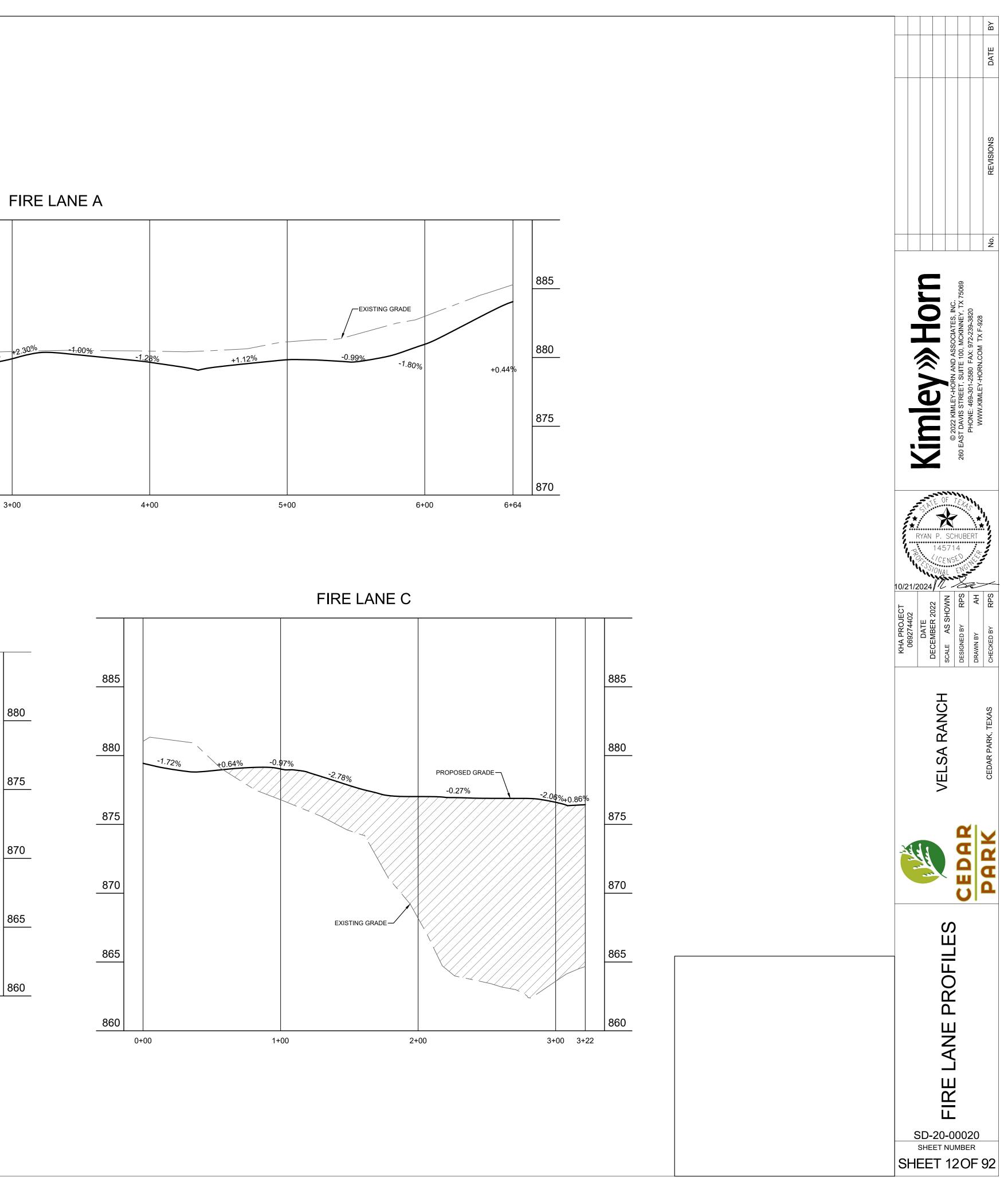


FIRE LANE B

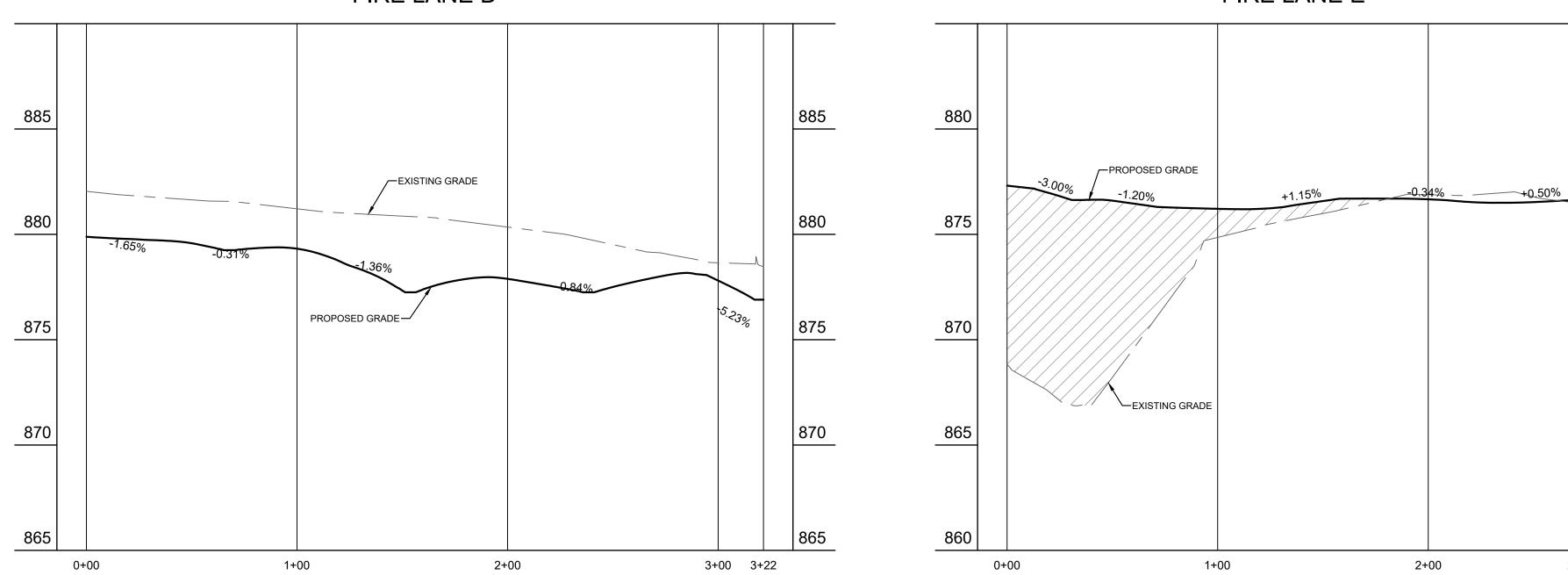


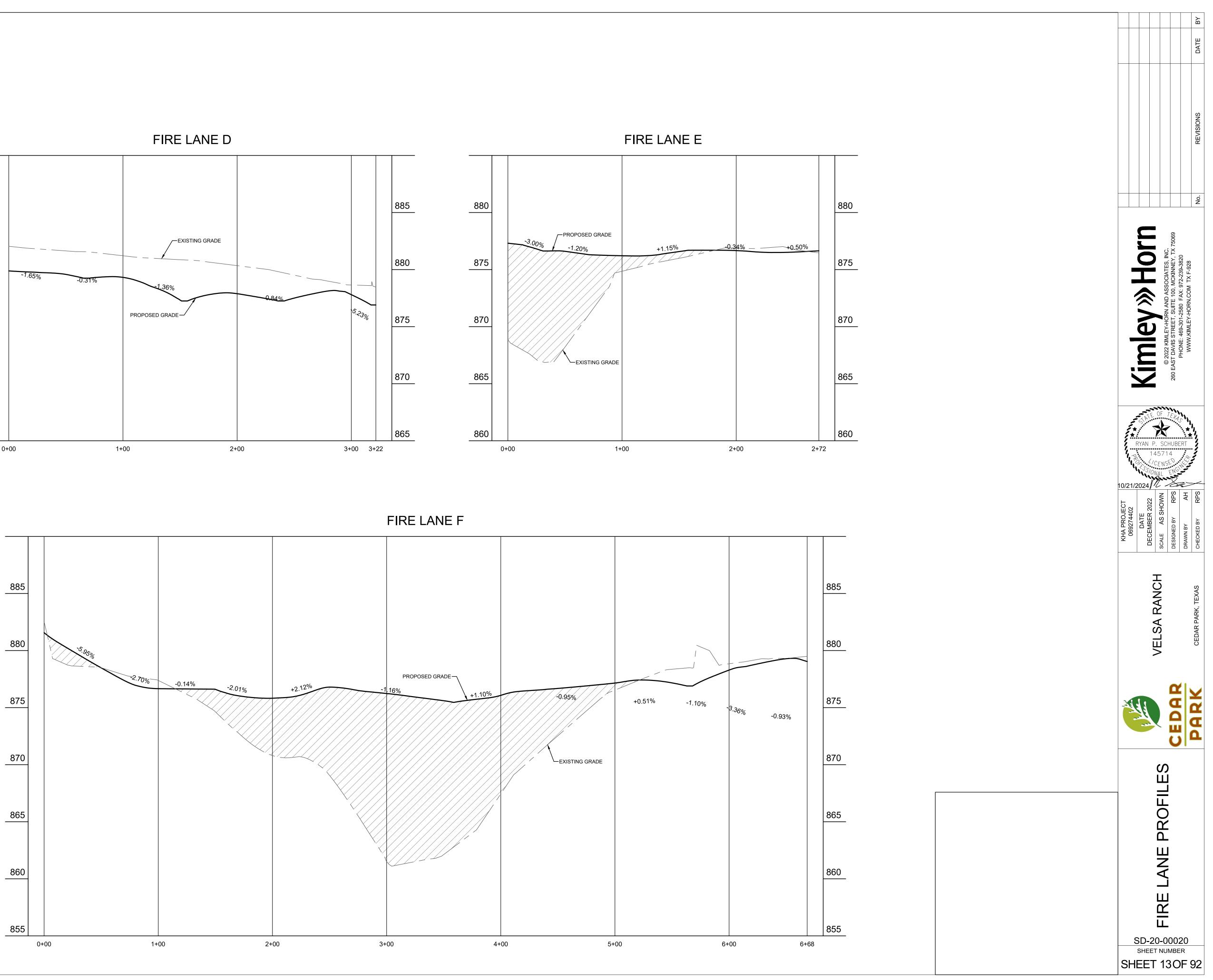
1 PM PARK FIRE

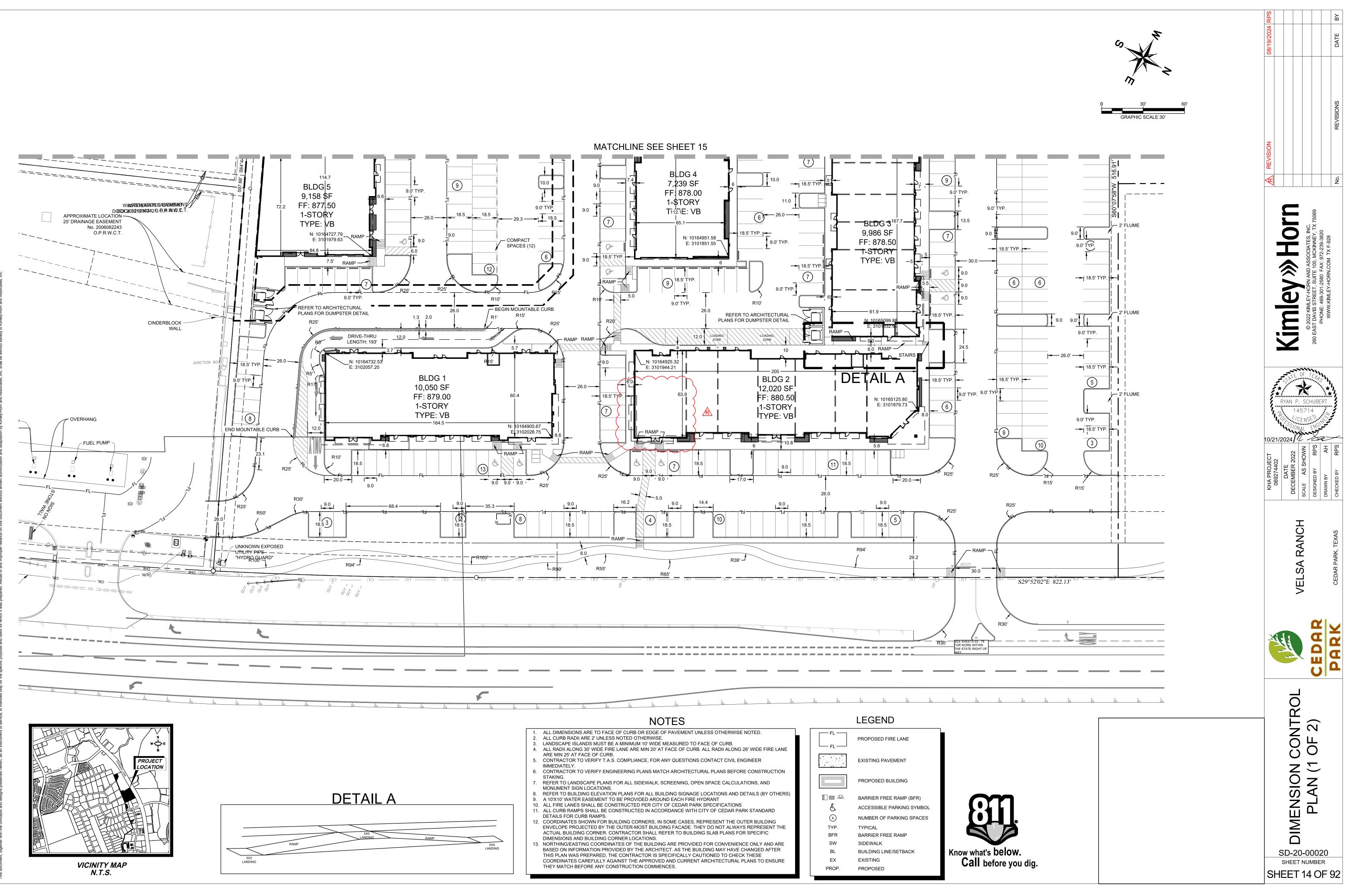
Cedar Park Logo : Fire Prevention Plan : xBrdr 6/6/2024 9:41 AM 6/6/2024 9:41 AM 7.1021/2024 K:AUS CIVIL:098274402-CED/ FIRE LANE PROFILES.DWG ; IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME



Cedar Park Logo: Fire Prevention Plan:xBrdr 6/6/2024 9:41 AM 5/CHUBERT, RYAN 10/21/2024 SCHUBERT, RYAN 10/21/2024 SCHUBERT, RYAN 10/21/2024 FIRE LANE PROFILES.DWG, IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

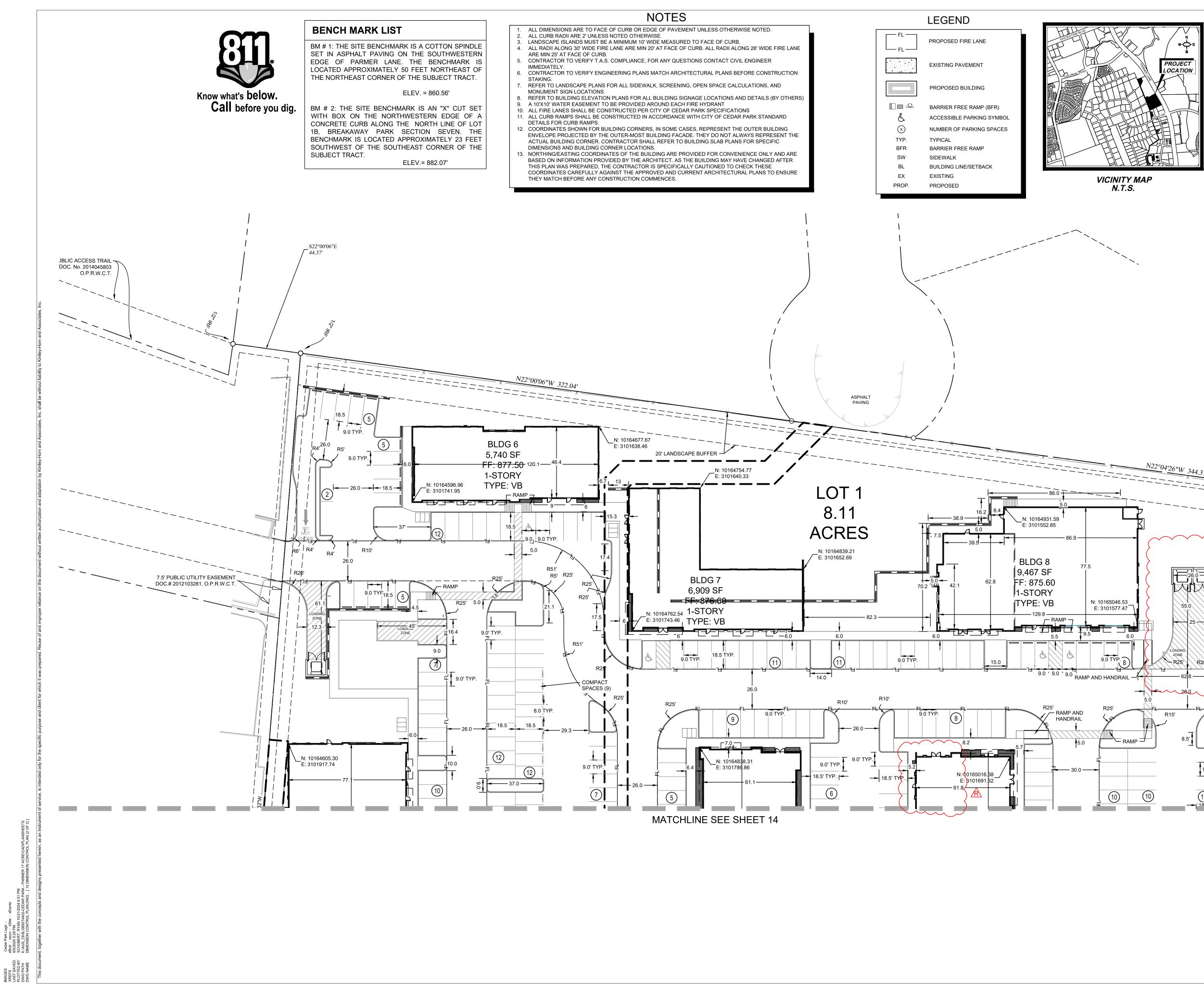




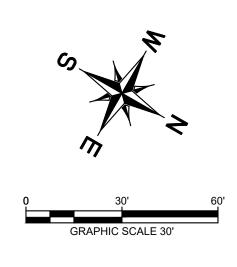


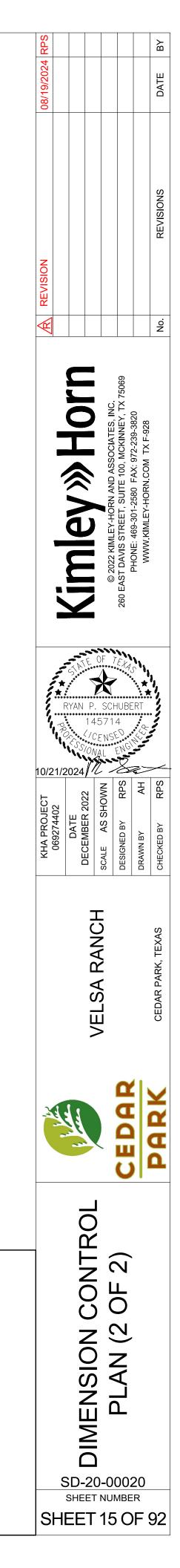
Cedal Fark Lugo XBrdr : xsurv : x 9/5/2024 5:29 PM SCHUBERT, RYA K:\AUS_CIVIL\066 R:\AUS_CIVIL\066 IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH ^WG NAME

FL —	PROPOSED FIRE LANE
	EXISTING PAVEMENT
	PROPOSED BUILDING
	BARRIER FREE RAMP (BFR)
Ŀ.	ACCESSIBLE PARKING SYM
(\mathbf{X})	NUMBER OF PARKING SPAC
TYP.	TYPICAL
BFR	BARRIER FREE RAMP
SW	SIDEWALK
BL	BUILDING LINE/SETBACK
EX	EXISTING
PROP.	PROPOSED

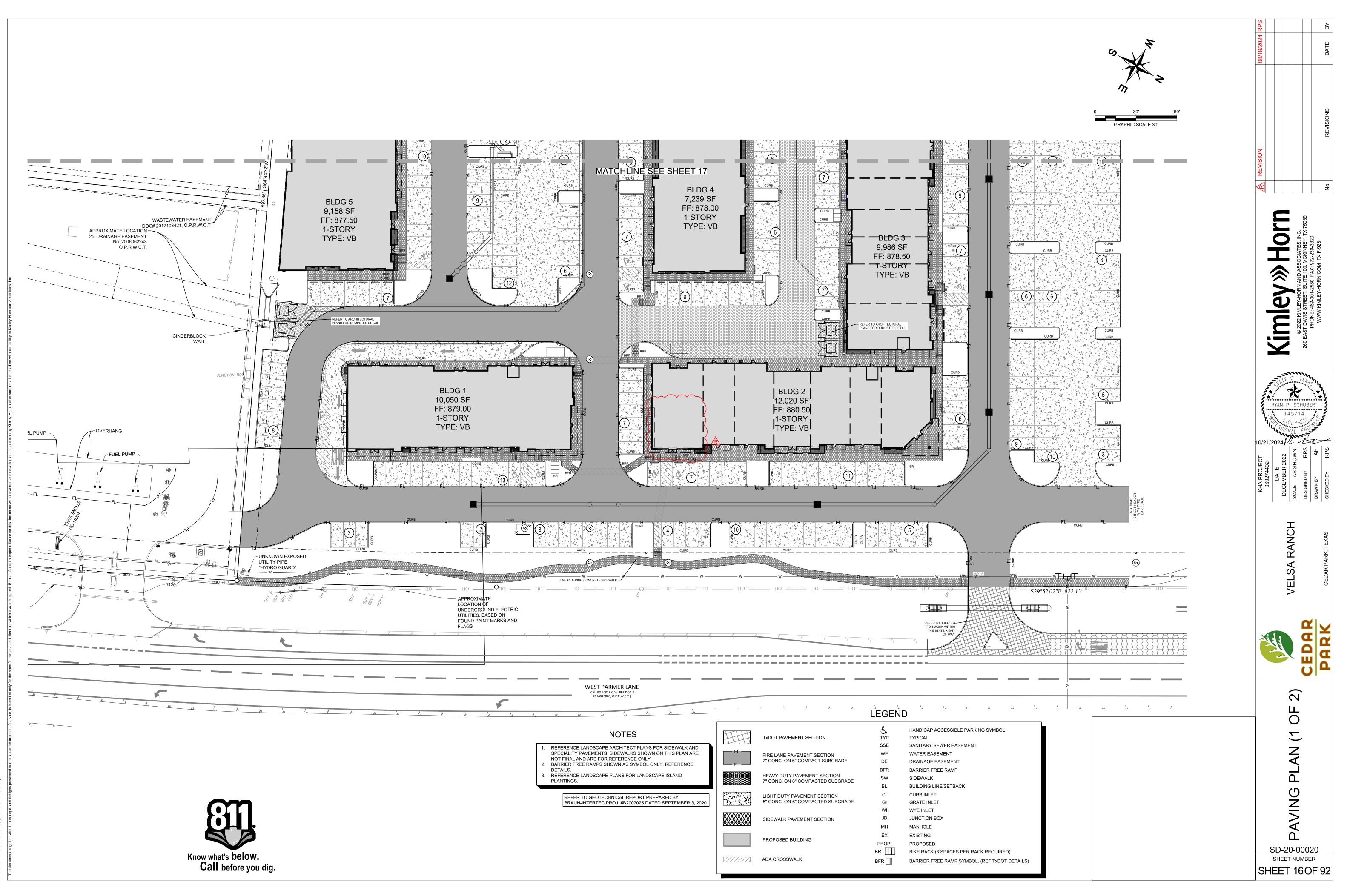


Cedar Park Logo : xBrdr : xsurv : xSite 9/5/2024 5:29 PM SCHUBERT, RYAN 1 K:\AUS_CIVIL\06927 DIMENSION CONTR

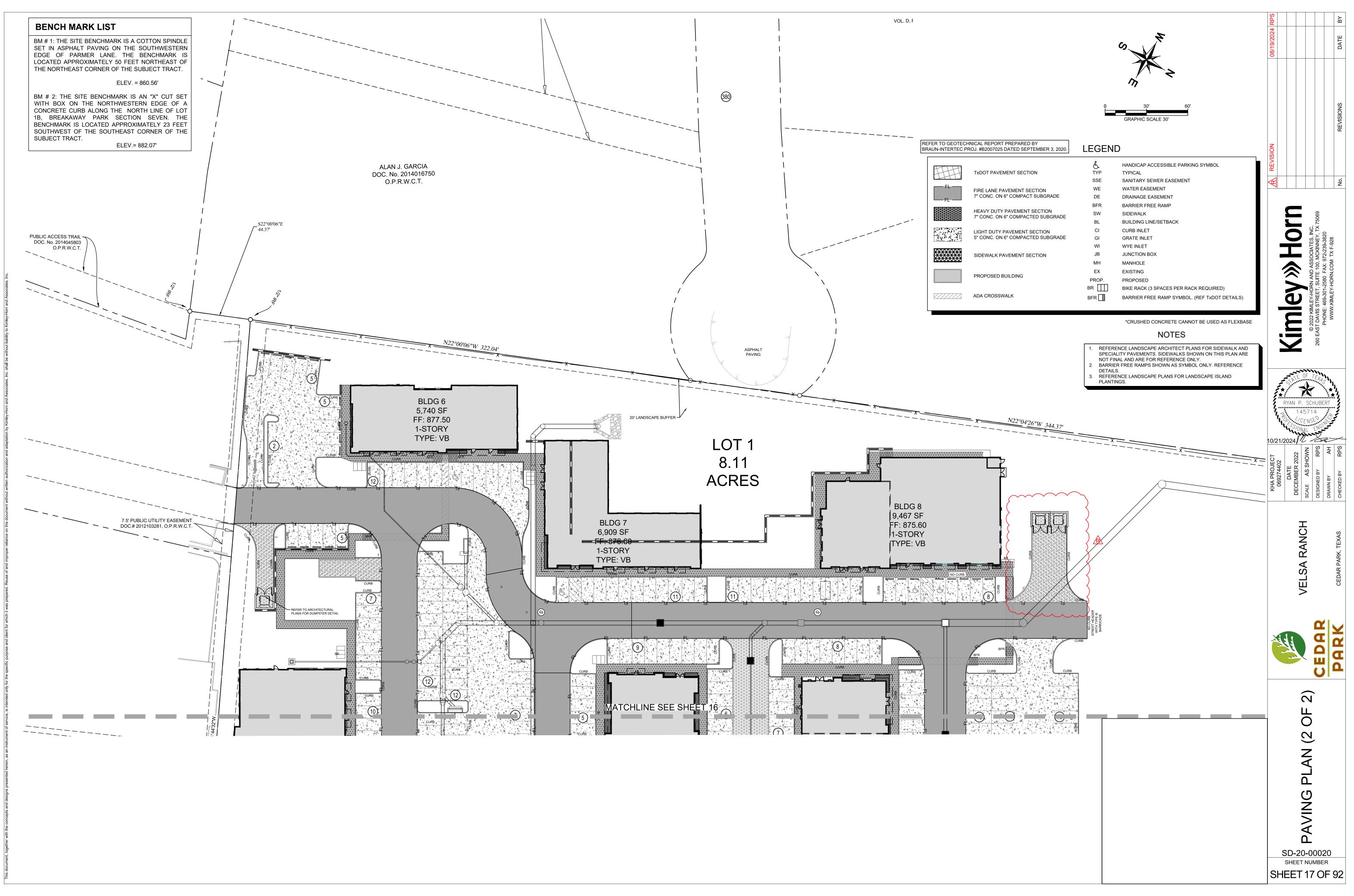




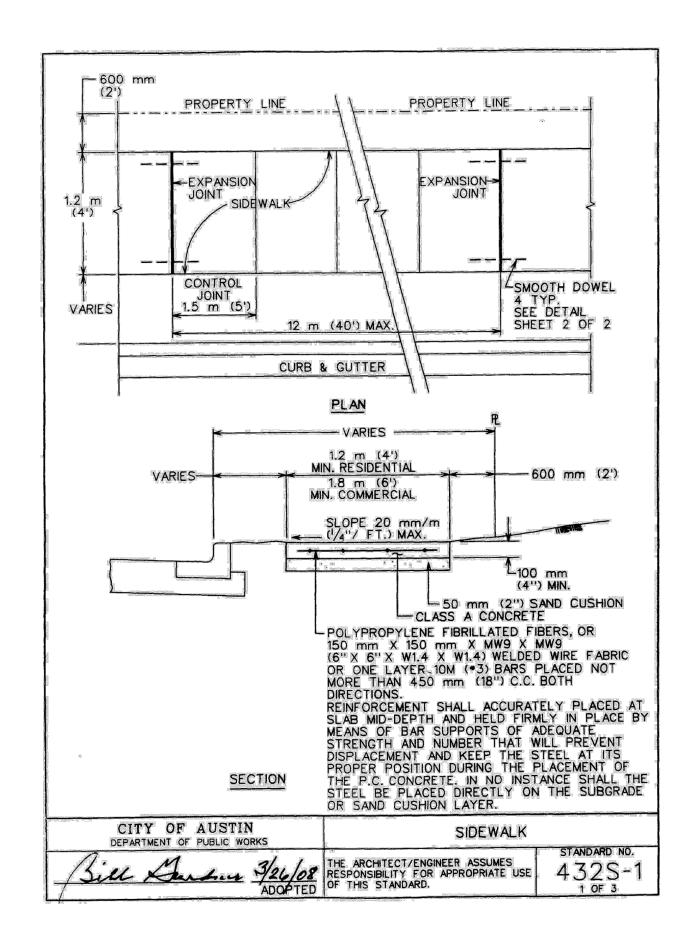
R20 R278 9.0' TYP.

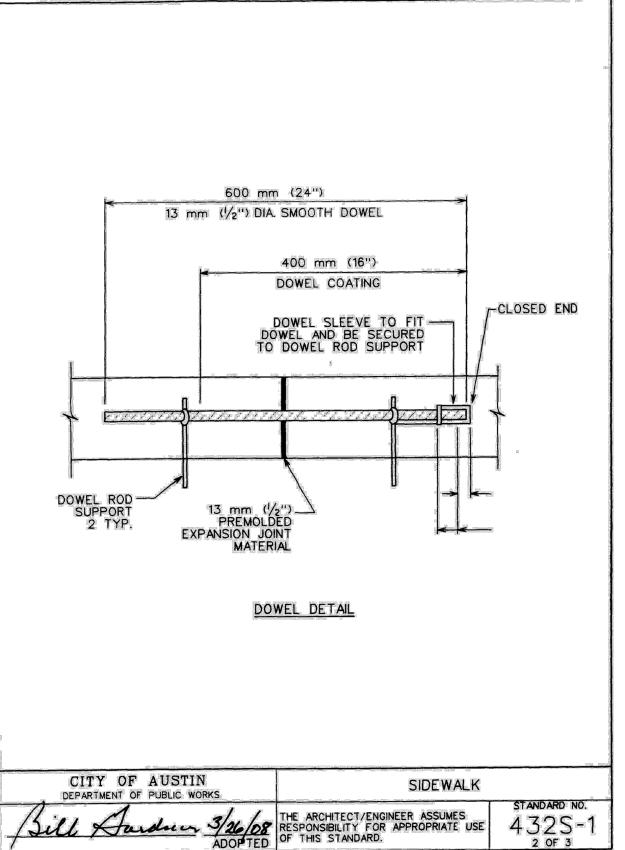


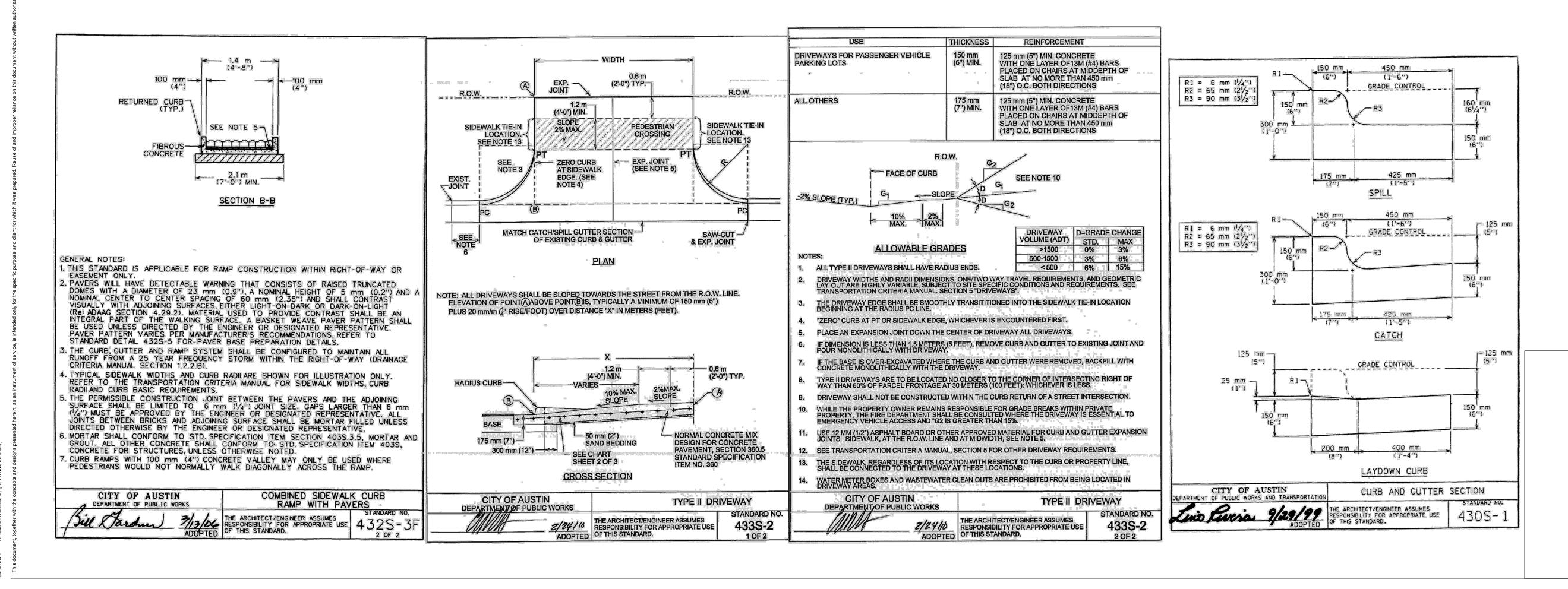
IMAGES Cedar Park Logo: XREFS xstrm:xsurv:xUBII:xBrdr:xHATCH:xSite LAST SAVED 8/19/2024 11:08 AM PLOTTED BY SCHUBERT, TR:VAN 10/21/2024 6:52 PM PLOTTED BY SCHUBERT, TR:VAN 10/21/2024 6:52 PM DWG PATH K:AUUS CIVIL0699274402-CEDATP ARK. PARMER 17 ACREICADIF DWG NAME PAVING PLAN.DWG,[16 PAVING PLAN († OF 2)]



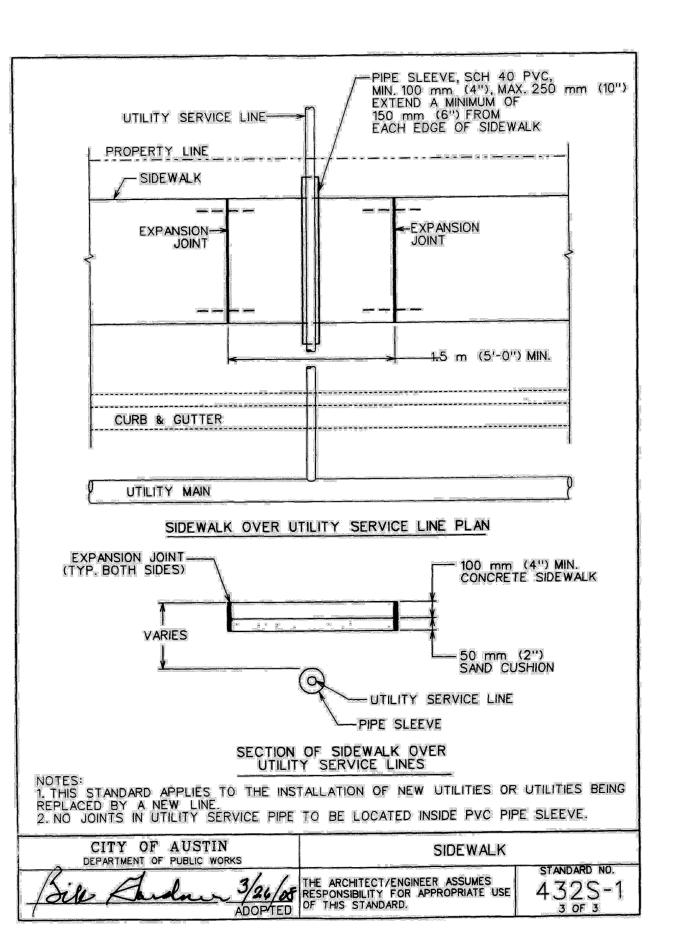
IMAGES Cedar Park Logo: XREFS xStrm:xSurv:xUtil:xBrdr:xATCH:xSite LGATT SACED 311:08AM 10:2112024.6:52 PM PLOTTED APT K:AUS_CIVIL069274402-CEDAR PARK - PARMER 17 ACRE\CAD\PLANSHEETS DWG PATH K:AUS_CIVIL069274402-CEDAR PARK - PARMER 17 ACRE\CAD\PLANSHEETS

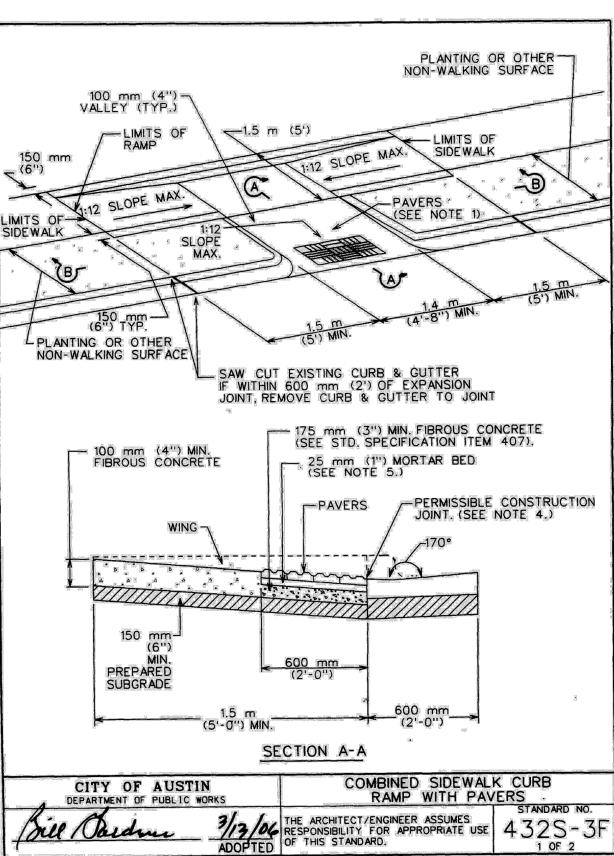


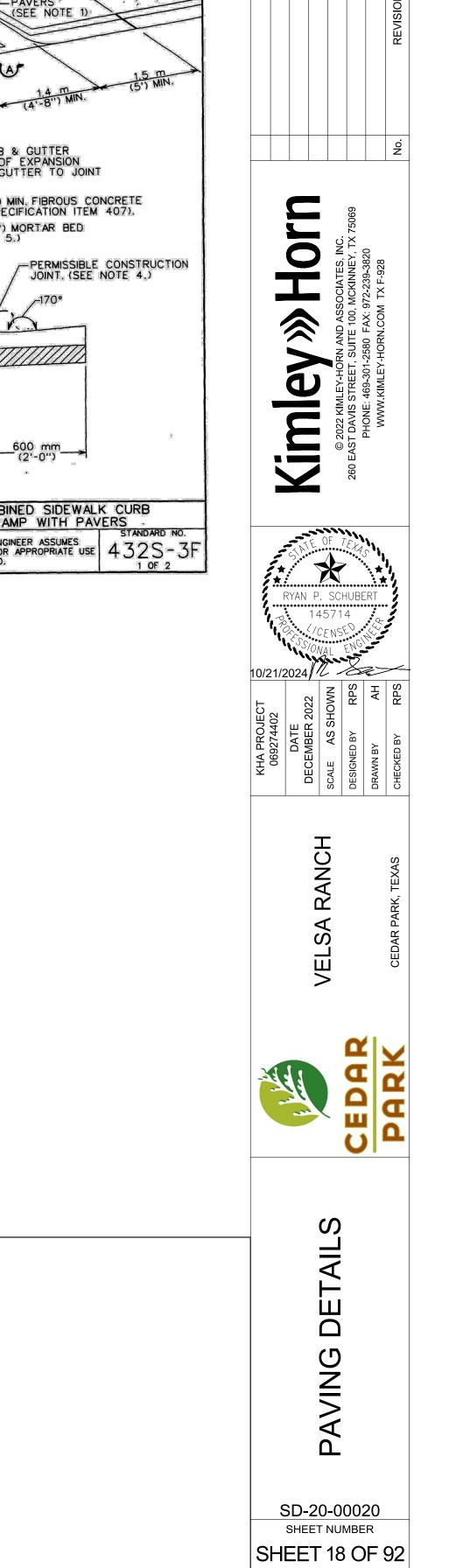


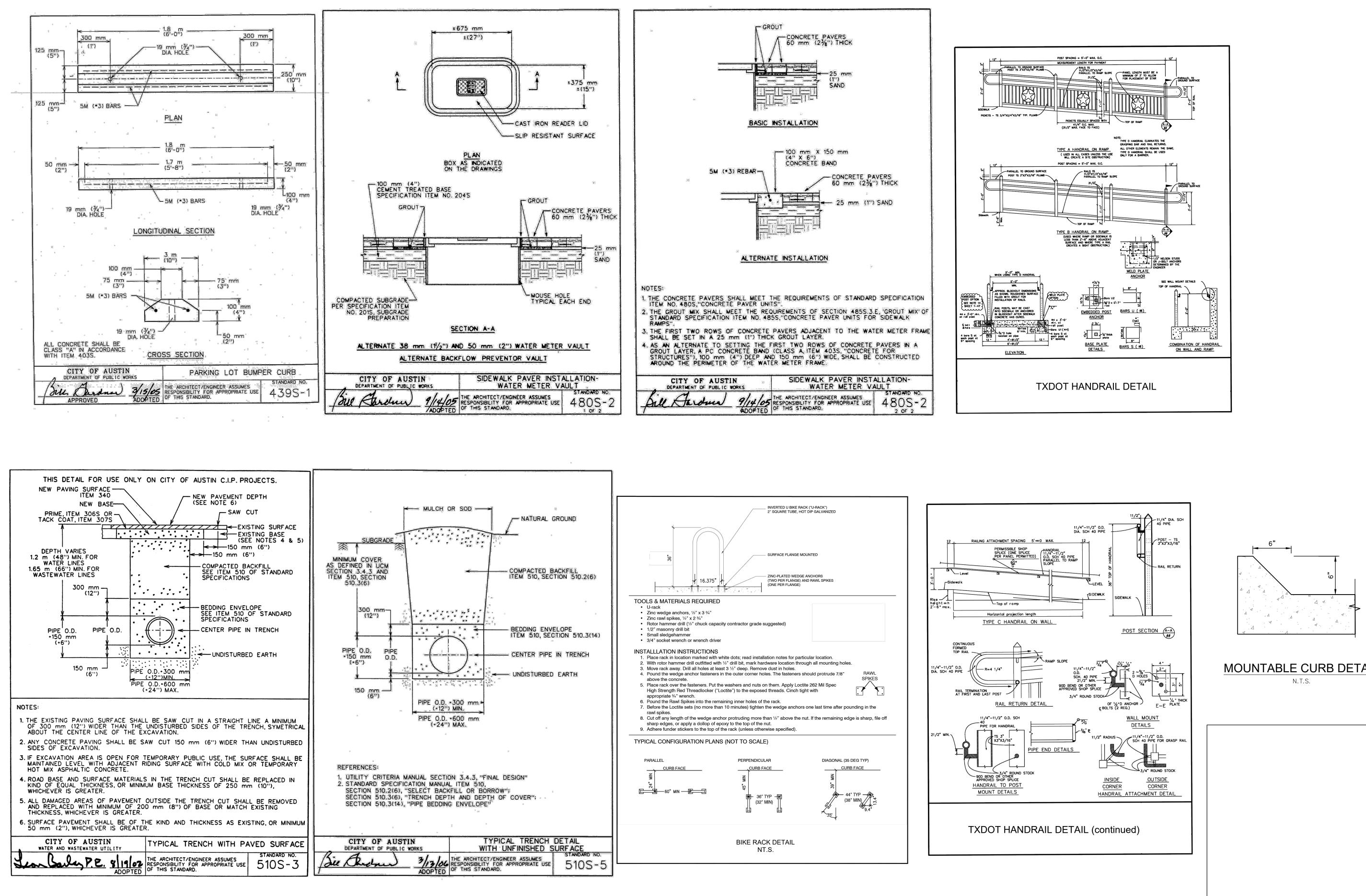


	SIDEWALK	
2 8 ED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	standard no. 4325-1 2 of 3



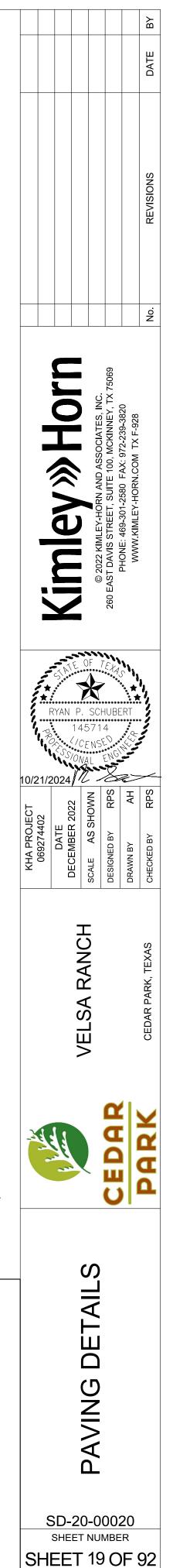


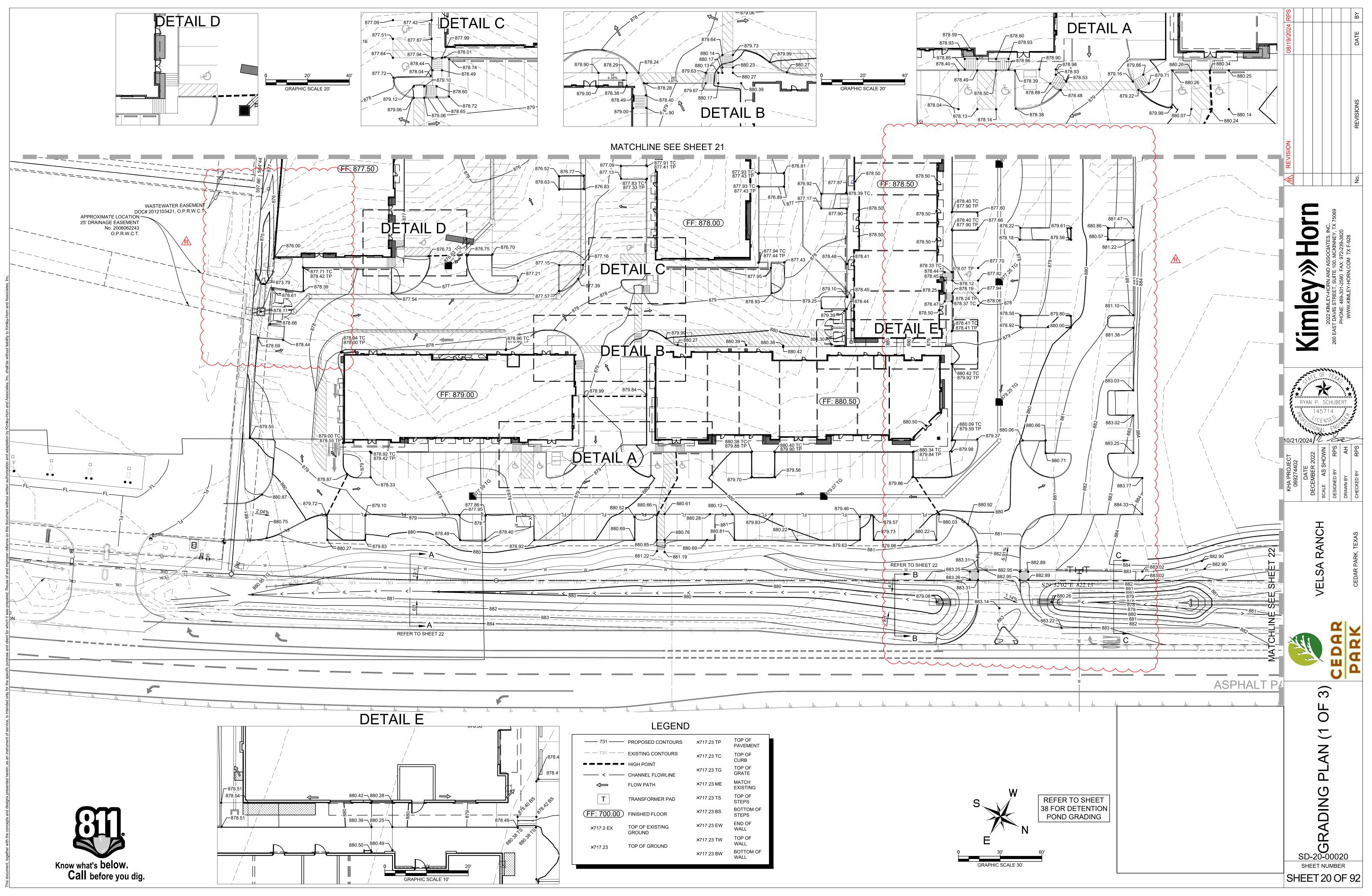




Cedar Park L xBrdr 6/6/2024 10:20 SCHUBERT, I K:\AUS_CIVIL PAVING DET/ IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

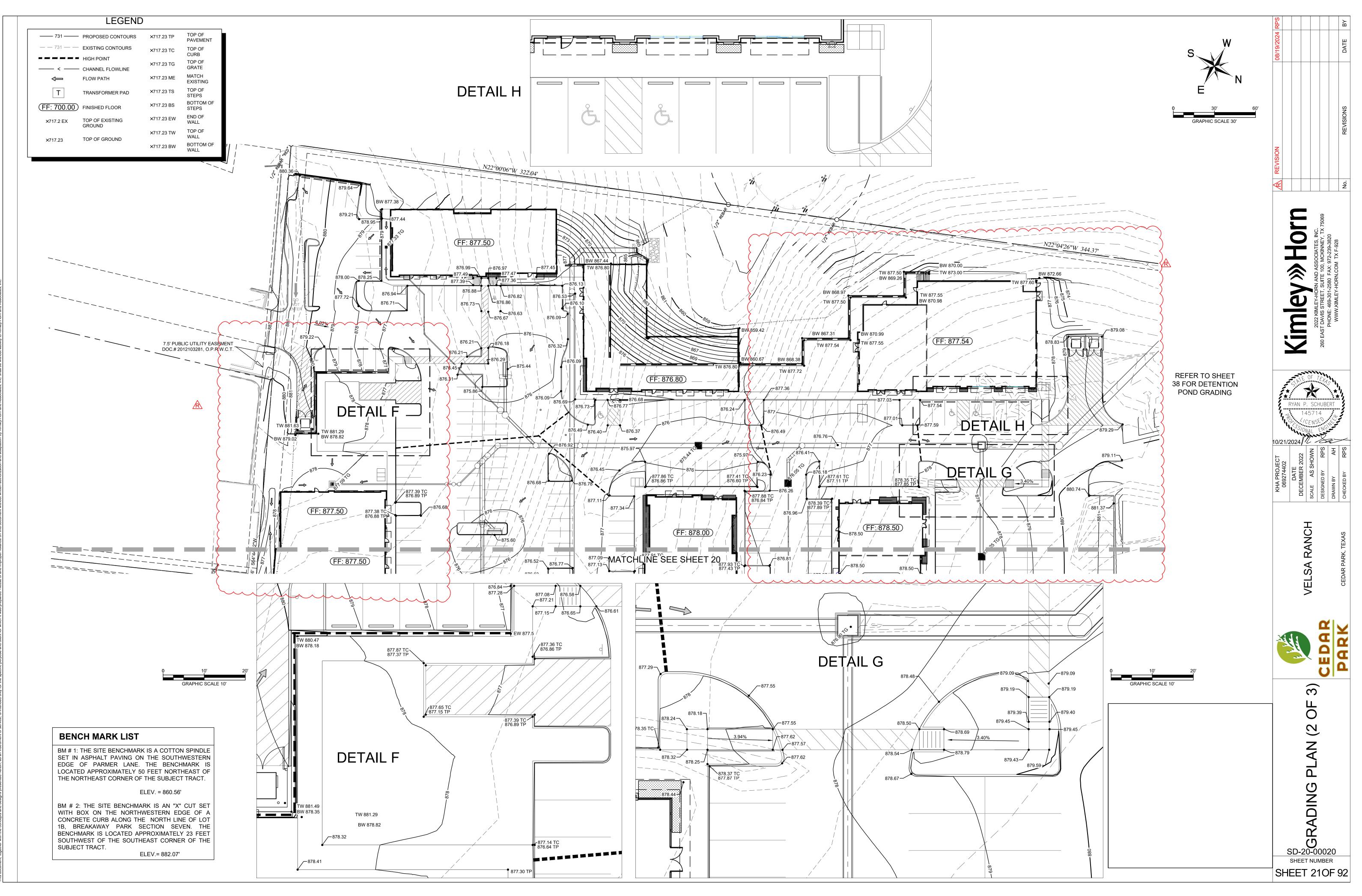
MOUNTABLE CURB DETAIL



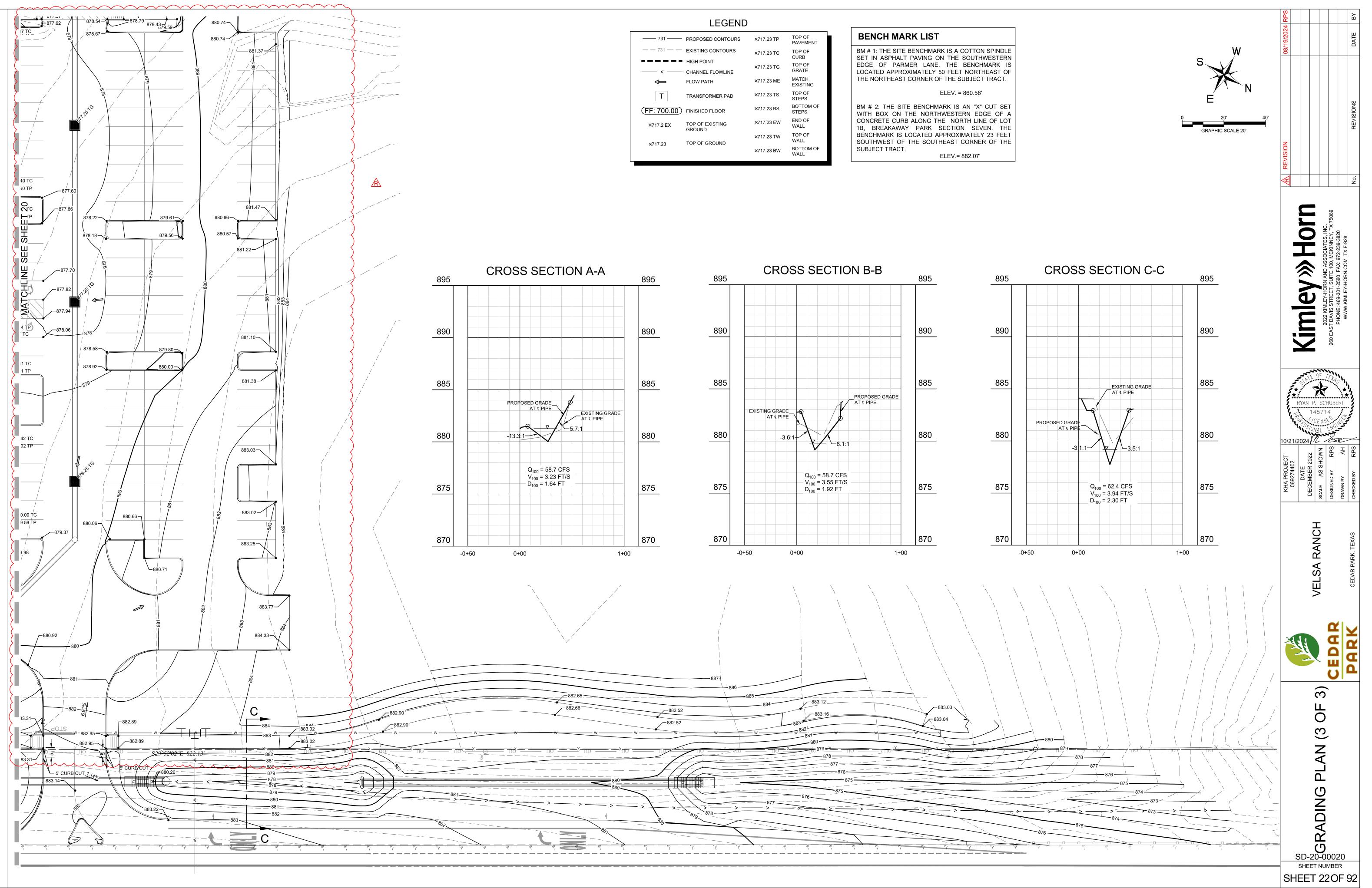


Cedar Park Logo: xstm:xsurv:xUtil: 99/2024 10:24 AM SCHUBERT, RYAN 10/ K:AUS_CIVIL\06927441 GRADING PLAN.DWG IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

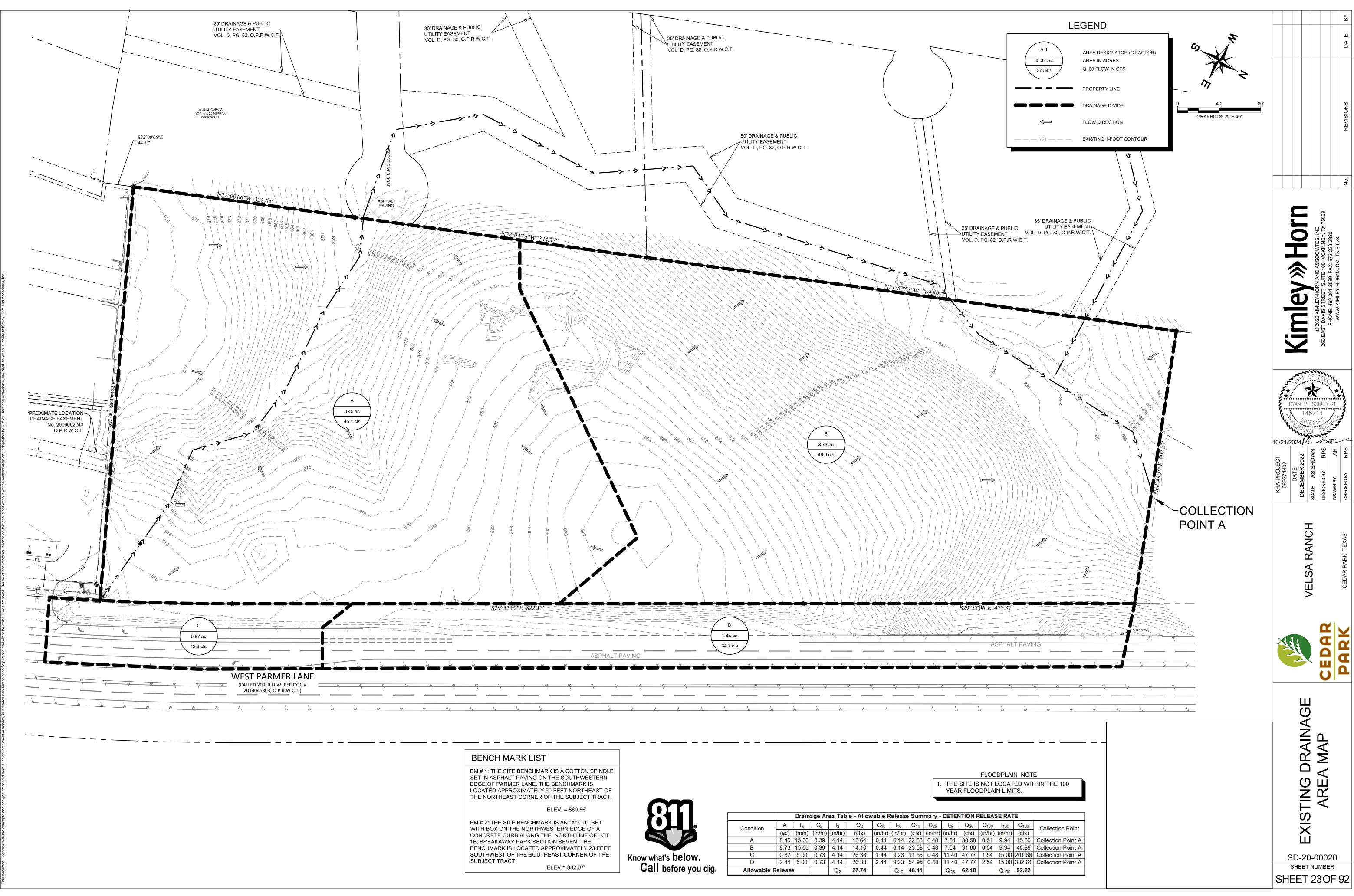
/				
	731	PROPOSED CONTOURS	×717.23 TP	TOP OF PAVEMENT
78.4	— — 731 — —	EXISTING CONTOURS	×717.23 TC	TOP OF CURB
		HIGH POINT		TOP OF
8.4	<	CHANNEL FLOWLINE	×717.23 TG	GRATE
	-	FLOW PATH	×717.23 ME	MATCH EXISTING
6	Т	TRANSFORMER PAD	×717.23 TS	TOP OF STEPS
_	(FF: 700.00)	FINISHED FLOOR	X717.23 BS	BOTTOM OF STEPS
	×717.2 EX	TOP OF EXISTING GROUND	×717.23 EW	END OF WALL
	×717.23	TOP OF GROUND	×717.23 TW	TOP OF WALL
	~/ 17.23		×717.23 BW	BOTTOM OF WALL



SAVED 9/9/2024 10:24 AM TED BY SCHUBERT, RYAN 10/21/2024 6:54 PM PATH K:,VUS CSUL080274024 CEPAR PARK PARMER 1 MMME CEPARMIC DI AN DMMC 1014 CEPARMICED I AN 1074 CE

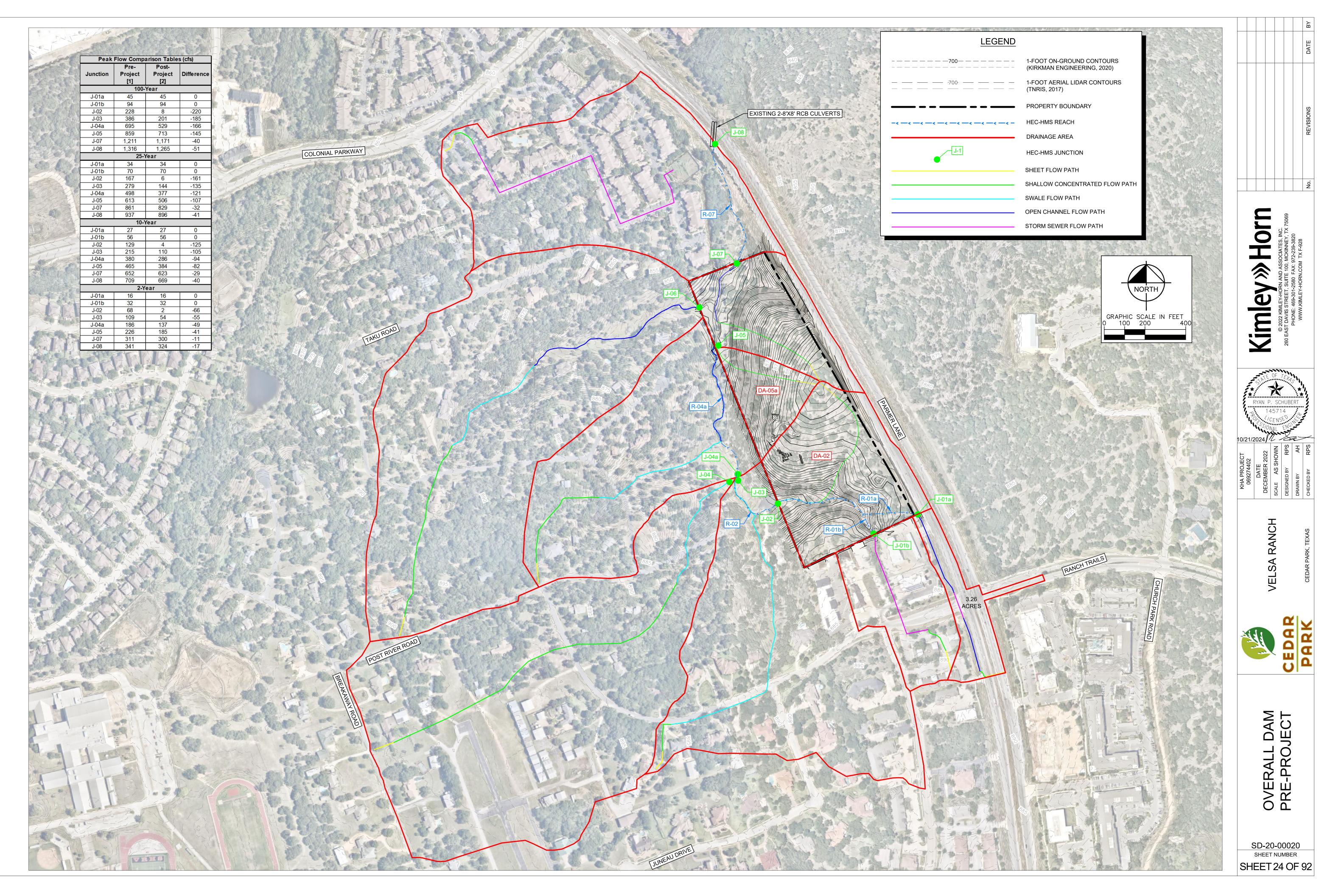


731	PROPOSED CONTOURS	×717.23 TP	TOP OF PAVEMENT	
— — 731 — —	EXISTING CONTOURS	×717.23 TC	TOP OF CURB	
	HIGH POINT	×717.23 TG	TOP OF	
	CHANNEL FLOWLINE		GRATE	
Į.	FLOW PATH	×717.23 ME	MATCH EXISTING	
Т	TRANSFORMER PAD	×717.23 TS	TOP OF STEPS	
(FF: 700.00)	FINISHED FLOOR	×717.23 BS	BOTTOM OF STEPS	
×717.2 EX	TOP OF EXISTING GROUND	×717.23 EW	END OF WALL	
x717.23		×717.23 TW	TOP OF WALL	
~111.25		×717.23 BW	BOTTOM OF WALL	



Uedar Park Logo : xExDAM : xSurv : 7/9/2024 5:11 PM SCHUBERT, RYAN K:AUS_CIVIL/06927 EXISTING DPANAG IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

	Drain	age Ar	ea Tab	le - Allow	able F	Release	e Sum	mary -	DETEN	ITION F	RELEAS	ŝE
Α	Tc	C ₂	l ₂	Q ₂	C ₁₀	I ₁₀	Q ₁₀	C ₂₅	l ₂₅	Q ₂₅	C ₁₀₀	
(ac)	(min)	(in/hr)	(in/hr)	(cfs)	(in/hr)	(in/hr)	(cfs)	(in/hr)	(in/hr)	(cfs)	(in/hr)	(
8.45	15.00	0.39	4.14	13.64	0.44	6.14	22.83	0.48	7.54	30.58	0.54	4
8.73	15.00	0.39	4.14	14.10	0.44	6.14	23.58	0.48	7.54	31.60	0.54	1
0.87	5.00	0.73	4.14	26.38	1.44	9.23	11.56	0.48	11.40	47.77	1.54	1
2.44	5.00	0.73	4.14	26.38	2.44	9.23	54.95	0.48	11.40	47.77	2.54	1
elease	3 4		Q ₂	27.74		Q ₁₀	46.41		Q ₂₅	62.18		
	(ac) 8.45 8.73 0.87 2.44	(ac) (min) 8.45 15.00 8.73 15.00 0.87 5.00	(ac)(min)(in/hr)8.4515.000.398.7315.000.390.875.000.732.445.000.73	(ac)(min)(in/hr)(in/hr)8.4515.000.394.148.7315.000.394.140.875.000.734.142.445.000.734.14	(ac)(min)(in/hr)(in/hr)(cfs)8.4515.000.394.1413.648.7315.000.394.1414.100.875.000.734.1426.382.445.000.734.1426.38	(ac)(min)(in/hr)(in/hr)(cfs)(in/hr)8.4515.000.394.1413.640.448.7315.000.394.1414.100.440.875.000.734.1426.381.442.445.000.734.1426.382.44	(ac)(min)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)8.4515.000.394.1413.640.446.148.7315.000.394.1414.100.446.140.875.000.734.1426.381.449.232.445.000.734.1426.382.449.23	(ac)(min)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)(cfs)8.4515.000.394.1413.640.446.1422.838.7315.000.394.1414.100.446.1423.580.875.000.734.1426.381.449.2311.562.445.000.734.1426.382.449.2354.95	(ac)(min)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)(cfs)(in/hr)8.4515.000.394.1413.640.446.1422.830.488.7315.000.394.1414.100.446.1423.580.480.875.000.734.1426.381.449.2311.560.482.445.000.734.1426.382.449.2354.950.48	(ac)(min)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)8.4515.000.394.1413.640.446.1422.830.487.548.7315.000.394.1414.100.446.1423.580.487.540.875.000.734.1426.381.449.2311.560.4811.402.445.000.734.1426.382.449.2354.950.4811.40	(ac)(min)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)(in/hr)(cfs)8.4515.000.394.1413.640.446.1422.830.487.5430.588.7315.000.394.1414.100.446.1423.580.487.5431.600.875.000.734.1426.381.449.2311.560.4811.4047.772.445.000.734.1426.382.449.2354.950.4811.4047.77	(ac)(min)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)(cfs)(in/hr)(in/hr)(cfs)(in/hr)8.4515.000.394.1413.640.446.1422.830.487.5430.580.548.7315.000.394.1414.100.446.1423.580.487.5431.600.540.875.000.734.1426.381.449.2311.560.4811.4047.771.542.445.000.734.1426.382.449.2354.950.4811.4047.772.54





r : xSite 6:56 PM AR PARK I 25 DRA 1/202/ 2-CED DWG . Cedar Park Logo : xDAM : xStm : xSurv : 717/2024 5:20 PM 7217/2024 5:20 PM 7217/2024 5:20 PM 7217/2024 5:20 PM

IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

ratio	on - Area B-2		Time of	Concentrat	ion - Area B-1		Time of Co	ncentratio	on - Area A-4	1	Time of Concentration - Area A-3				Time of Concentration - Area A-1				Time
	Shallow Conce	entrated Flow	She	et Flow	Shallow Conc	entrated Flow	Sheet	Sheet Flow Shallow Concentrated Flow		Sheet Flow Shallow Concentrated Flo		entrated Flow	Sheet Flow		Shallow Concentrated Flow		5		
.015	paved?	no	n	= 0.01	5 paved?	? no	n =	0.015	paved?	no	n =	= 0.01	5 paved	? no	n =	0.015	paved?	no	-
0.02	S (ft/ft)	0.02	S (ft	ft) 0.0	2 S (ft/ft	0.02	S (ft/ft)	0.02	S (ft/ft)	0.02	S (ft/f	t) 0.0	2 S (ft/ft) 0.02	S (ft/ft)	0.02	S (ft/ft)	0.02	S
100	L (ft)	503	L	ft) 10	D L (ft) 59	L (ft)	100	L (ft)	122	L (f	t) 10	0 L (ft) 222	L (ft)	100	L (ft)	15	
4.03			P2	= 4.0	3		P2 =	4.03			P2 =	= 4.0	3		P2 =	4.03			F
1.38	T (min) =	3.67	T (min)	= 1.3	B T (min) =	0.43	T(min) =	1.38	T (min) =	0.89	T (min) =	= 1.3	8 T (min) =	1.62	T (min) =	1.38	T (min) =	0.11	T (mi
1) =	5.06		Tot	al Tc (min) =	1.81		Total T	"c (min) =	2.27		Tota	I Tc (min) =	3.01		Total T	c (min) =	1.49		7
ı) =	5.00	Mininum used	Tot	al Tc (min) =	5.00	Mininum used	Total 1	"c (min) =	5.00	Mininum used	Tota	I Tc (min) =	5.00	Mininum used	Total T	ic (min) =	5.00	Mininum used	

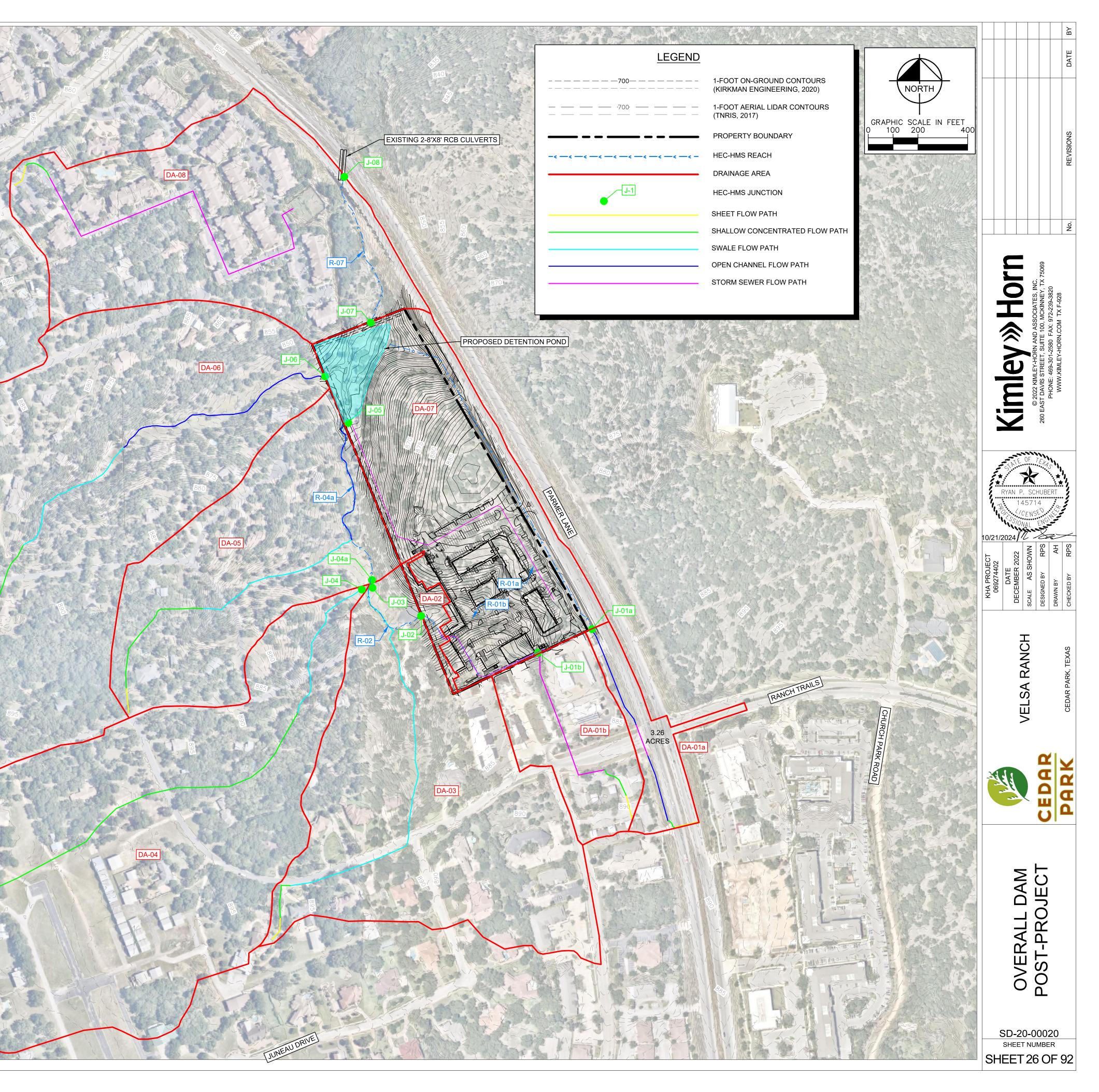
					CO X Z		DATE BY
					40' GRAPHIC SCALE 40'	80'	REVISIONS
				A-1 30.32 AC 37.542	AREA DESIGNATOR (C AREA IN ACRES Q100 FLOW IN CFS PROPERTY LINE DRAINAGE DIVIDE FLOW DIRECTION PROPOSED 1-FOOT C EXISTING 1-FOOT COM	ONTOUR	NAND ASSOCIATES, INC. NAND ASSOCIATES, INC. Self FAX: 972-239-3820 HORN.COM TX F-928 No.
RUNOFF COEFFICIENT "C" 0.97 0.97 0.97	DR TIME OF CONCENTRATION (minutes) 5 5 5 5	RAINAGE A RAINFALL INTENSITY "I"100 (in/hr) 15.24 15.24 15.24	REA TAB RAINFALL INTENSITY "I"25 (in/hr) 11.450 11.450 11.450	TOTAL FLOW Q100 (cfs) 5.8 1.3 6.8	COLLECTION POINT GRATE INLET Y-INLET GRATE INLET	TOTAL FLOW Q25 (cfs) 4.360 0.996 5.124	Cimpon Associates, INC. 260 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX PHONE: 469-301-2580 FAX: 972-239-3820 WWW.KIMLEY-HORN.COM TX F-928
0.97 0.97 0.97 0.97 0.97 0.97 0.97	5 5 5 5 5 5 5 5	15.24 15.24 15.24 15.24 15.24 15.24 15.24	11.450 11.450 11.450 11.450 11.450 11.450 11.450	4.9 6.5 14.5 6.4 8.9 19.9	GRATE INLET	3.690 4.918 10.896 4.773 6.706 14.967	RYAN P. SCHUBERT
0.97 0.97 0.97 0.97 0.97 0.97 0.97	5 5 5 5 5 5 5	15.24 15.24 15.24 15.24 15.24 15.24	11.450 11.450 11.450 11.450 11.450 11.450	0.2 12.8 0.1 16.2 10.7 73.6	AREA DRAIN CURB INLET AREA DRAIN CURB INLET GRATE INLET LINE F	0.147 9.615 0.065 12.179 8.037 55.264	KHA PROJECT 069274402 DATE DATE DECEMBER 2022 ALE AS SHOWN ALE AS SHOWN Signed BY RPS ANW BY AH CAWN BY AH CAWN BY APS CAWN BY APS CAWN BY APS CAWN BY APS CAWN BY APS CAMP CASS CASS CASS CASS CASS CASS CASS CAS
0.97 0.97 0.76 0.79	5 5 5 5 T	15.24 15.24 15.24 15.24 ime of Concentr Sheet Flow n = 0.0 0 (#)	Shallow Co 15 pave	ncentrated Flow d? no	Y-INLET OFFSITE AREA INLET SLOPED END TREATMEN	16.763 10.534 10.296 T 2.772	
		L (ft) 1 P2 = 4. F (min) = 1. Total Tc (min) 1. Total Tc (min) Total Tc (min) Total Tc (min) State Sheet Flow n = 0.0 S (ft/ft) 0. L (ft) P2 = 4. F (min) =	= 5.00 ation - Area E-2 Shallow Con 115 pave 02 S (ft 00 L 1 03 38 T (min)	(ft) 434 = 3.17 Mininum used ncentrated Flow d? no /ft) 0.02 (ft) 315			VELSA RANCH CEDAR PARK, TEXAS
BM # 1: TH COTTON S	I MARK LIS	MARK IS A		Mininum used	8		CEDAR
EDGE OF BENCHMAR APPROXIMA NORTHEAS CORNER OF BM # 2: TH	PARMER LA K IS ATELY 50 T OF THE NO THE SUBJECT ELE E SITE BENCHM	ANE. THE LOCATED FEET ORTHEAST TRACT. V. = 860.56' IARK IS AN			Know what's be Call befo		AREA MAP
NORTHWES CONCRETE LINE OF LO SECTION SI LOCATED A SOUTHWES	CURB ALONG T DT 1B, BREAKAN EVEN. THE BENG APPROXIMATELY T OF THE SU THE SUBJECT	OF A HE NORTH WAY PARK CHMARK IS (23 FEET OUTHEAST					DRAINAGE AR
0.015 par 0.02 S	Concentrated Flow ved? no (\u00c0ft/ft) 0.02 L (\u00c0ft) 148						SD-20-00020 SHEET NUMBER SHEET 25 OF 92

IMAGES Cedar Park Logo:EPSG26914_Date20200518_Lat30.524769_Lon-97.781254_Mpp0.597: XREFS xBrd: : xManal2 LAST SAVED 12/2022 4:29 PM PLOTTED S CHUBERT, RYAN 10/21/2024 6:56 PM DWG PATH K:AUS GYULIOBS77402-CEDAR PARK - PARMER 17 ACREICAD/PLANSHEETS DWG PATH K:AUS GYULIOBS274402-CEDAR PARK - PARMER 17 ACREICAD/PLANSHEETS DWG NAME OVERALL DRAINAGE AREA MAP.DWG , [26 OVERALL DAM POST-PROJECT]

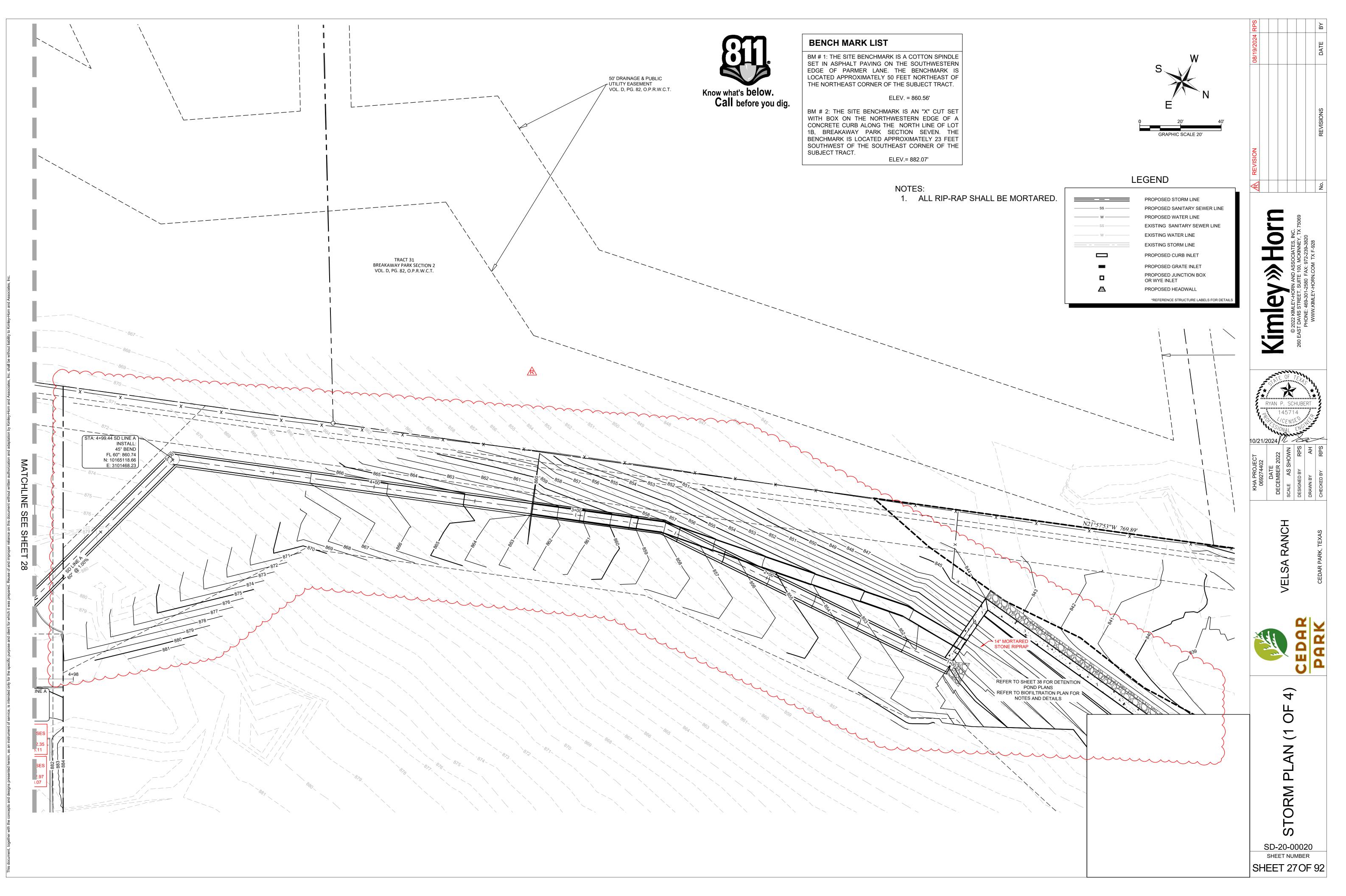
1	ε.			(1)	
	Peak	Flow Compa Pre-	arison Table Post-	s (cfs)	
	Junction	Project	Project	Difference	
		[1]	[2] Year		
No and the	J-01a	45	45	0	
	J-01b J-02	94 228	94 8	0 -220	
	J-03	386	201	-185	
	J-04a J-05	695 859	529 713	-166 -145	and the state of the
	J-07	1,211	1,171	-143	
5.5	J-08	1,316	1,265 /ear	-51	
in still	J-01a	34	34	0	
51.54	J-01b J-02	70 167	70 6	0 -161	
	J-02 J-03	279	6 144	-161	COLONIA
	J-04a	498	377	-121	
	J-05 J-07	613 861	506 829	-107 -32	
	J-08	937	896 /ear	-41	
	J-01a	27	27	0	
	J-01b	56	56	0	
	J-02 J-03	129 215	4 110	-125 -105	
	J-04a	380	286	-94	
	J-05 J-07	465 652	384 623	-82 -29	
	J-08	709	669	-40	
I L SI	J-01a	2- Y	ear 16	0	
	J-01b	32	32	0	
1 42	J-02 J-03	68 109	2 54	-66 -55	
	J-04a J-05	186	137 185	-49 -41	
	J-07	226 311	300	-41	
	J-08	341	324	-17	
VI JEN		Starter (
	FROM		1570	1-1-1	
-1-15-1-1	1-1-1-24	The -to	-7.	Jor to L	TOTAL OFFICE AND BELLEVIE
The states	antes -		51-51	1 h	
V V V	1 AC	JAN S		- 5 11-1	
	2232	1-1-		2012	
		J-SMEST		STA	The state of the s
	1 - In F	111-8		1/25	
	- 4917		24-7	1. A	
11-1-1	L'L'		الدور		All a Call
	L.Y.		IT THE		
to			AL-SING	ALL IT	
Sector 1	- Martin	KKY		Lin	
		The states	212		
	- 2 MAL	Martin .	N.L.		
		1 - A J		JI LAG	
BURNA	K C	AL-LIN	2 ANU	1/11 5 1	13- CINE RIS STATISTICS
E PON	-110		2 Kill		1 11/41 1 TR IN SALANSE
	KIN		ALL ALL		
1 The 3		ALL.	Will -	(11-2-4)	
STA -	Sha 3		1-2-5-	12/2	
-24	14,	7 711			and the second
IN TA			SULS!		
	K Elle	1-1-			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
J. S.	GP1-	LIK			
	2-11- S	20 CAN			
	1. 20				
The states	JAN Y	to The		A Trade	
2 2000	K HLC				
		Chester -		17)5	Carter and the second
	4	1-1	x=211/		
	The s		- 1 - P		- 6 2 5 2 8 2 2 2
		-			
-7-1-1-	my com	E-	2º 11/2		
	1.	- 1 5	27		
			to Field		
1 P	1			1527	
"	1 1	1000		17200	Y Y G
	- 27	U.S. Andrew	~ / / /		2
ME Mann	L	in the	113	1	
1577	L I			845	
	11	The A		/ MI	
	TI	6	11	L	THE REAL PROPERTY

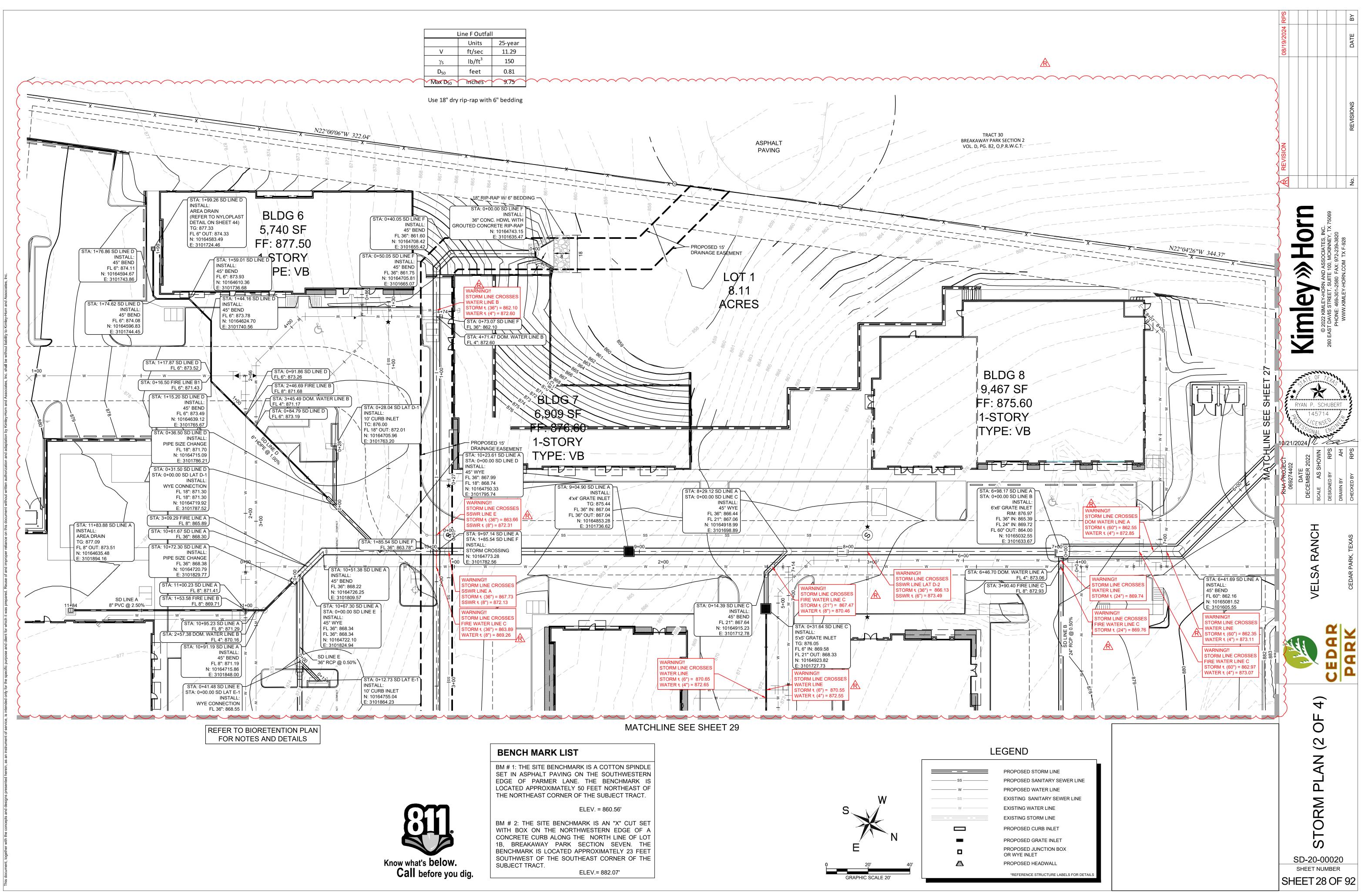
VRHS

IAL PARKWAY



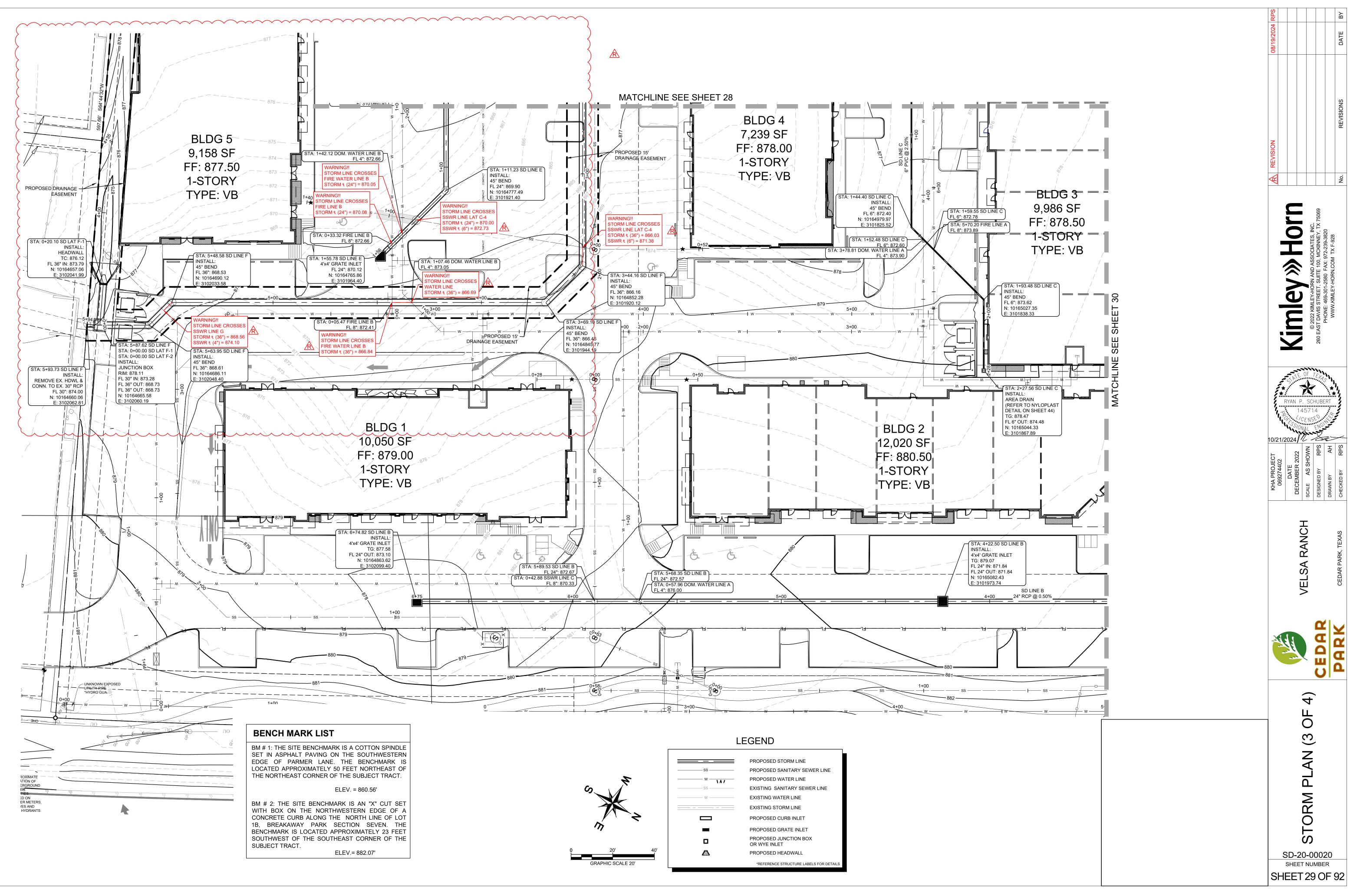




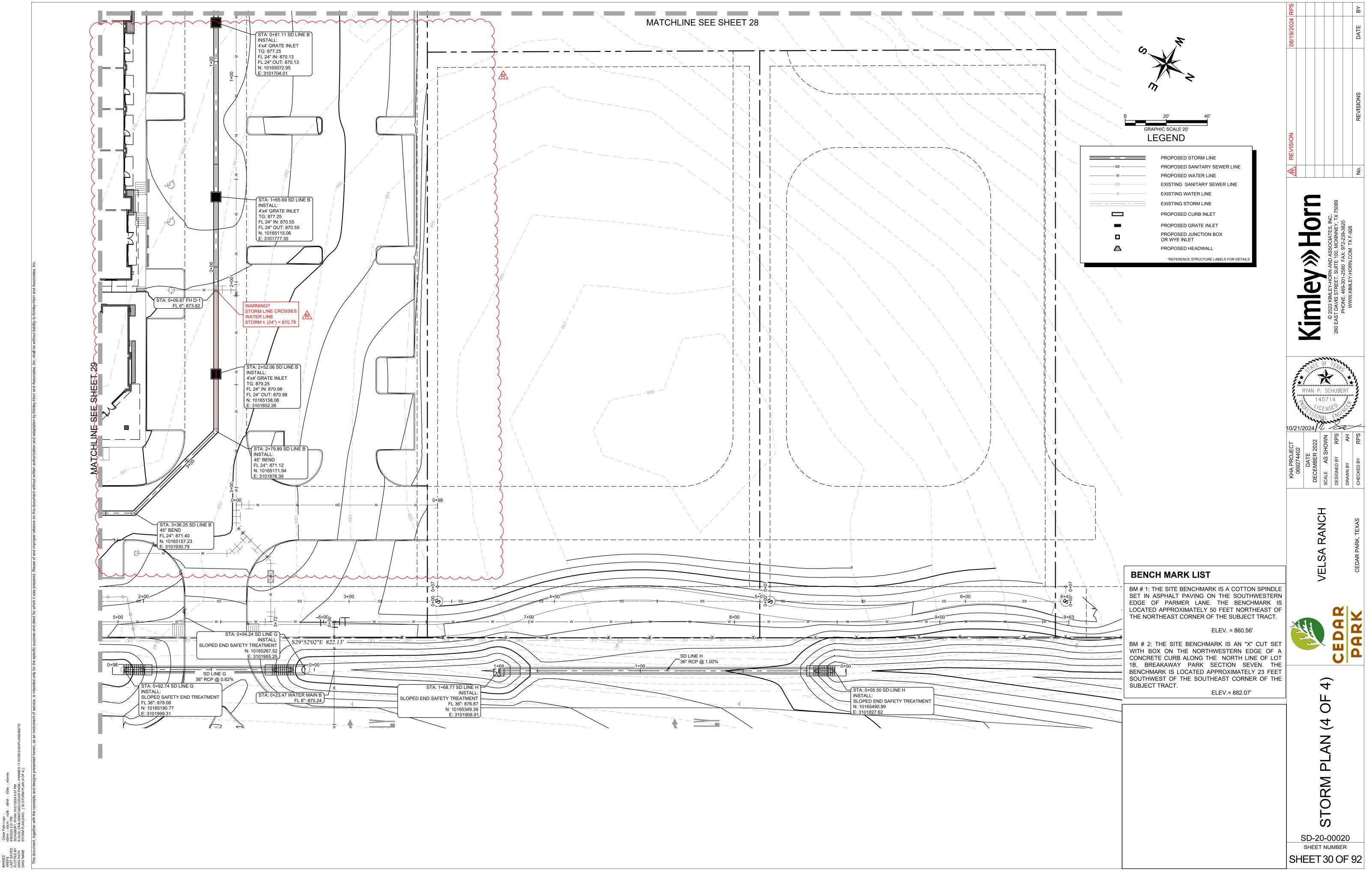


xStrm : xSurv : xUf 9/9/2024 2:51 PM SCHUBERT, RYAN K:AUS_CIVIL\06927 STORM PI AN DWG2

IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

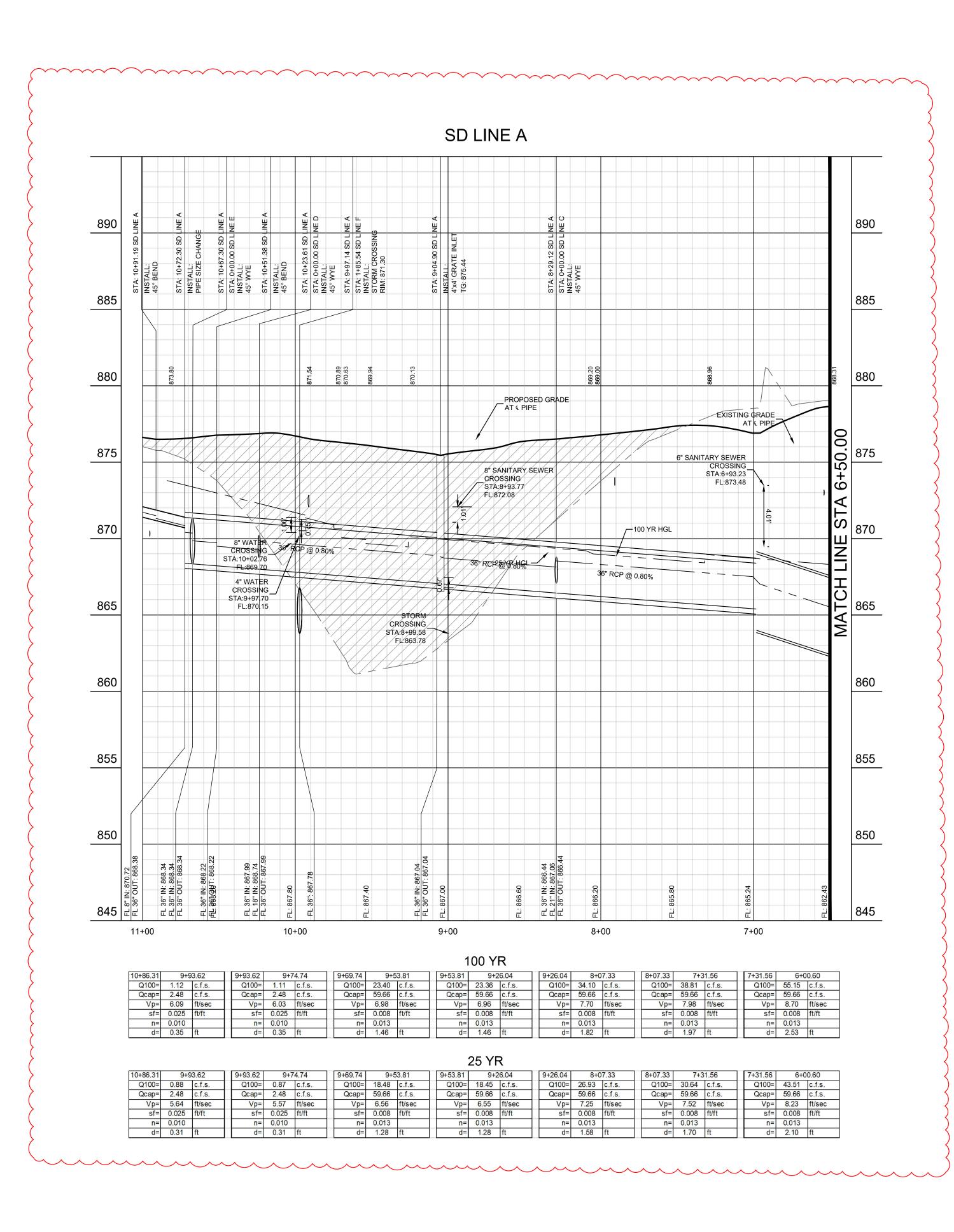


xStrm : xSurv : xUf 9/9/2024 2:51 PM SCHUBERT, RYAN K:AUS_CIVIL\06927 STORM PI AN DWG2 IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

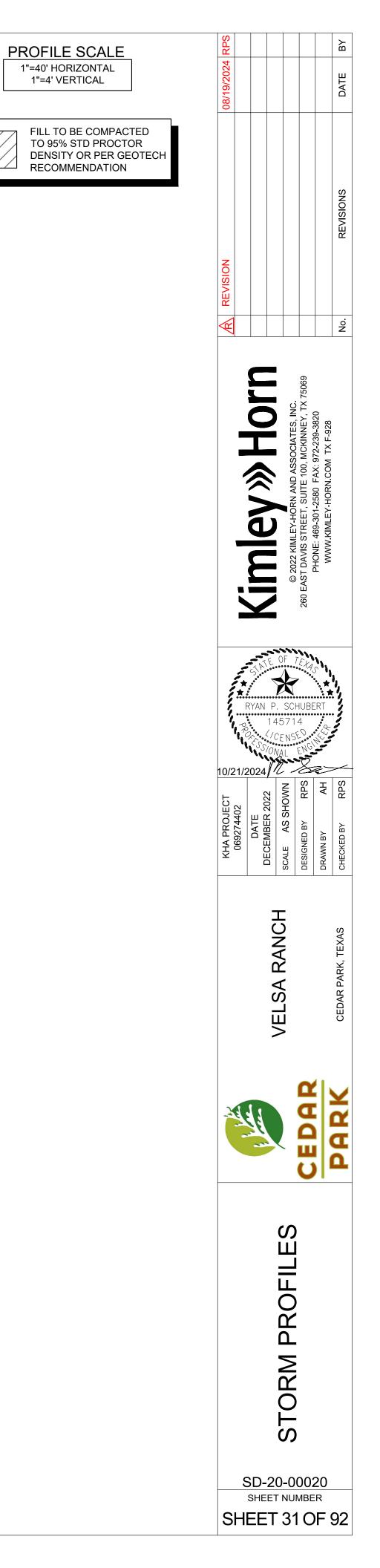


Cedar Park Logo : xStrm : xSurv : xUt 9/9/2024 2:51 PM SCHUBERT, RYAN * K:AUS_CIVIL06927 STORM PLAN.DWG

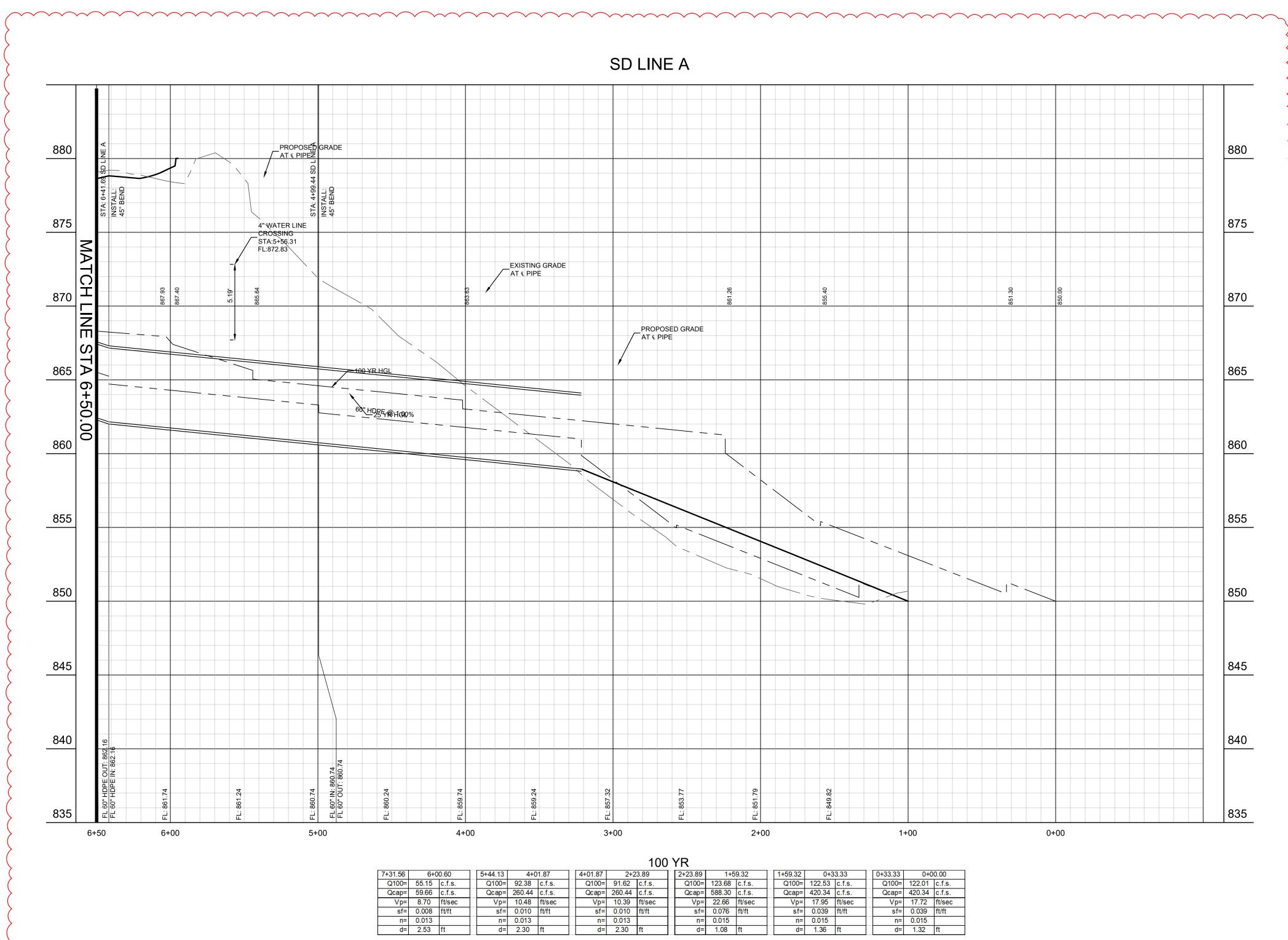
IMAGES Cedar Park Logo : XREFS XBrdr : 65tm LAST SAVED 9/30/2024 3:08 PM PLOTTED BY SCHUBERT, RYAN 10/21/2024 7:01 PM PLOTTED BY SCHUBERT, RYAN 10/21/2024 7:01 PM PUOTED BY STUDBERT, RYAN 10/21/2024 7:01 PM DWG PATH K:NULS GUNL099274402-CEDAR PARK - PARMER 17 ACREICADI/PLANSHEETS DWG NAME STORM PROFILES.DWG , [31 STORM PROFILES]



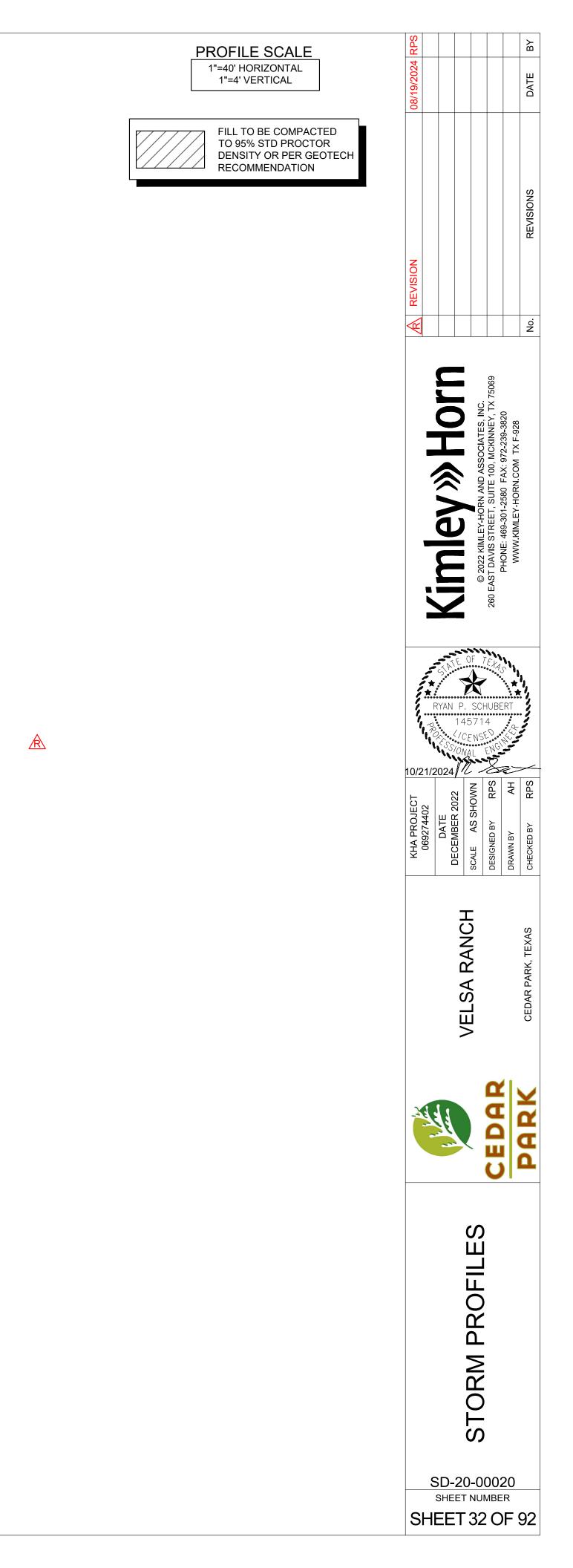
R

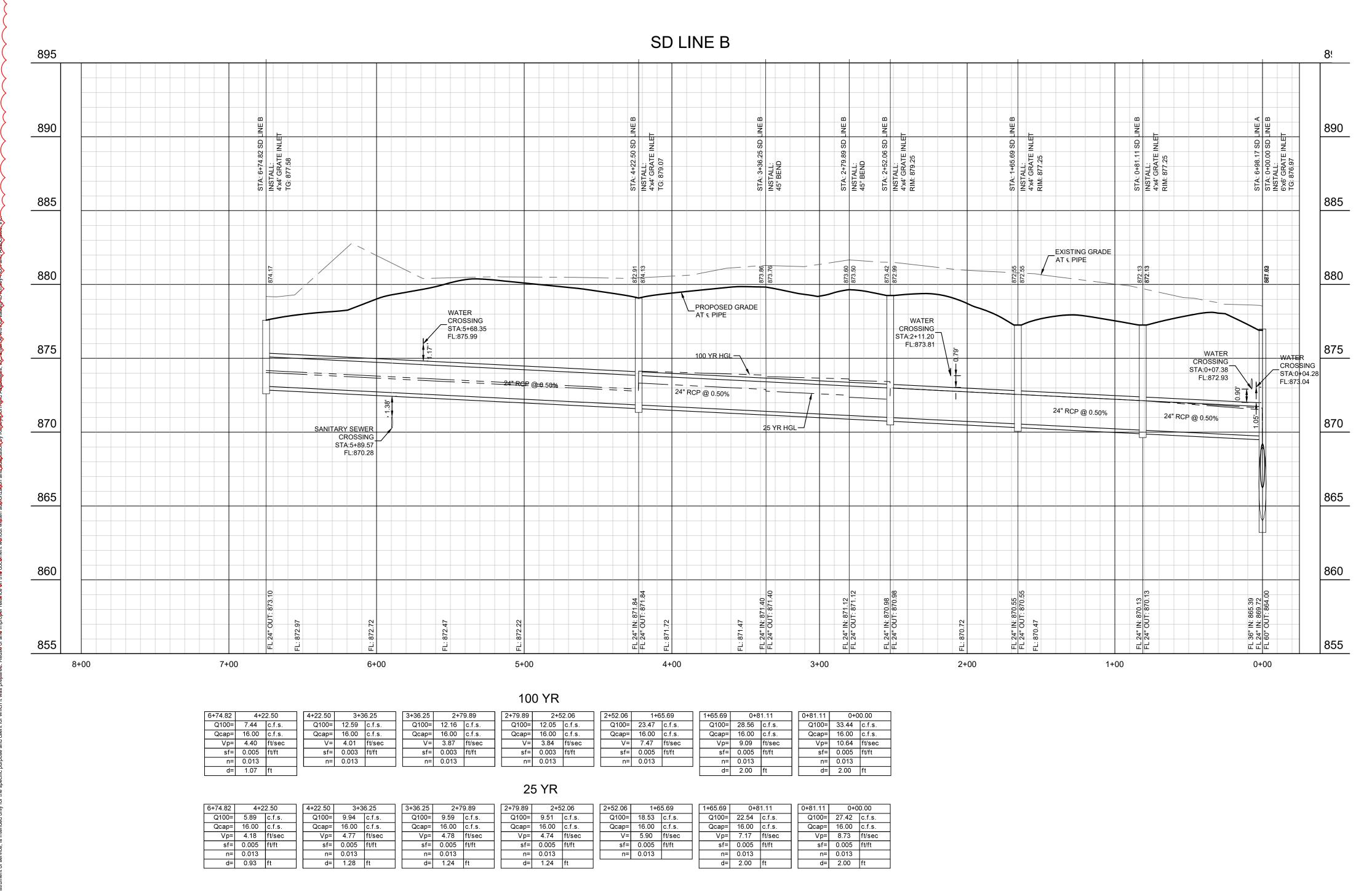


IMAGES Cedar Park Logo: XREFS xBrdr: oStim LAST SAVED 9302024 3:08 PM LOTTED BY SCHUBERT, RYN 11021/2024 7:01 PM PLOTTED BY SCHUBERT, RYN 11021/2024 7:01 PM DWG PATH K:ANS_CIVIL\069274402-CEDAR PARK - PARMER 17 ACRE\CAD\PLANSHEETS DWG AATH STORM PROFILES.DWG , [32 STORM PROFILES]

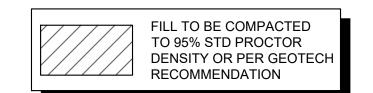


								25	Y	R									
7+31.56	6+0	0.60	5+44.13	4+(01.87	4+01.87	2+2	3.89		2+23.89	1+5	9.32	1+59.32	0+3	33.33		0+33.33	0+0	0.00
Q100=	43.51	c.f.s.	Q100=	72.63	c.f.s.	Q100=	71.94	c.f.s.		Q100=	97.07	c.f.s.	Q100=	96.02	c.f.s.	1 [Q100=	95.55	c.f.s.
Qcap=	59.66	c.f.s.	Qcap=	260.44	c.f.s.	Qcap=	260.44	c.f.s.		Qcap=	588.30	c.f.s.	Qcap=	420.34	c.f.s.	1 [Qcap=	420.34	c.f.s.
Vp=	8.23	ft/sec	Vp=	9.90	ft/sec	Vp=	9.81	ft/sec		Vp=	20.99	ft/sec	Vp=	16.46	ft/sec	Т	Vp=	16.46	ft/sec
sf=	0.008	ft/ft	sf=	0.010	ft/ft	sf=	0.010	ft/ft		sf=	0.076	ft/ft	sf=	0.039	ft/ft		sf=	0.039	ft/ft
n=	0.013		n=	0.013		n=	0.013			n=	0.015		n=	0.015			n=	0.015	
d=	2.10	ft	d=	2.03	ft	d=	2.03	ft		d=	0.92	ft	d=	1.12	ft	1 [d=	1.12	ft





24 7:02 PM EDAR PARK 33 STORM Cedar Park Logo : xBrdr : oStrm 9/30/2024 3:08 PM SCHUBERT, RYAN : K:\AUS_CIVIL\06927 STORM PROFILES.I IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME



PROFILE SCALE 1"=40' HORIZONTAL 1"=4' VERTICAL

 $\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim$

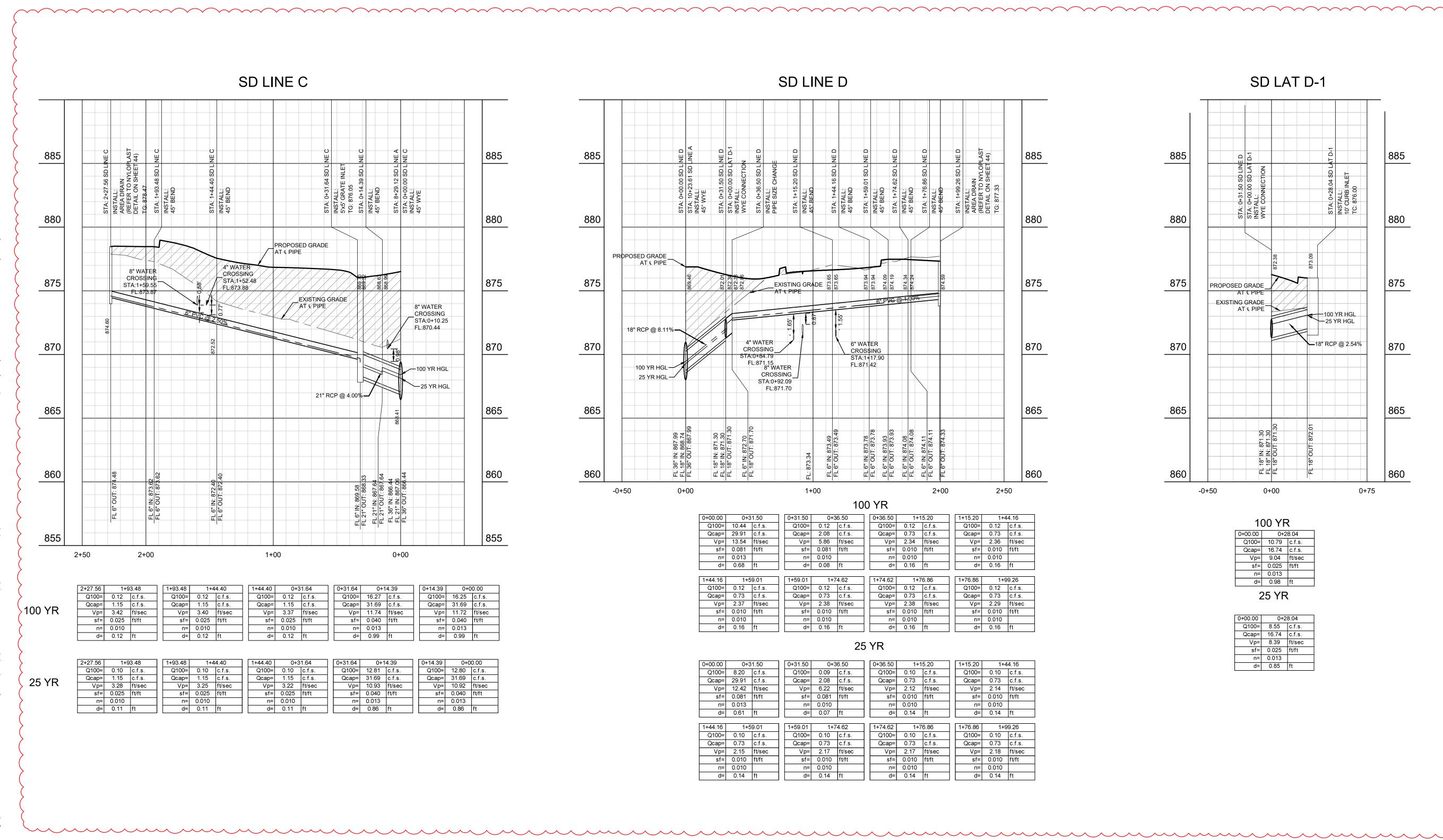
1+65.69	0+0					
	0+0	1.11		0+81.11	0+0	0.00
Q100=	28.56	c.f.s.		Q100=	33.44	c.f.s.
Qcap=	16.00	c.f.s.		Qcap=	16.00	c.f.s.
Vp=	9.09	ft/sec		Vp=	10.64	ft/sec
sf=	0.005	ft/ft		sf=	0.005	ft/ft
n=	0.013			n=	0.013	
d=	2.00	ft		d=	2.00	ft
	Qcap= Vp= sf= n=	Qcap= 16.00 Vp= 9.09 sf= 0.005 n= 0.013	Qcap= 16.00 c.f.s. Vp= 9.09 ft/sec sf= 0.005 ft/ft n= 0.013 Image: Constraint of the second	Qcap= 16.00 c.f.s. Vp= 9.09 ft/sec sf= 0.005 ft/ft n= 0.013	Qcap= 16.00 c.f.s. Qcap= Vp= 9.09 ft/sec Vp= sf= 0.005 ft/ft sf= n= 0.013 n=	Qcap= 16.00 c.f.s. Qcap= 16.00 Vp= 9.09 ft/sec Vp= 10.64 sf= 0.005 ft/ft sf= 0.005 n= 0.013 n= 0.013

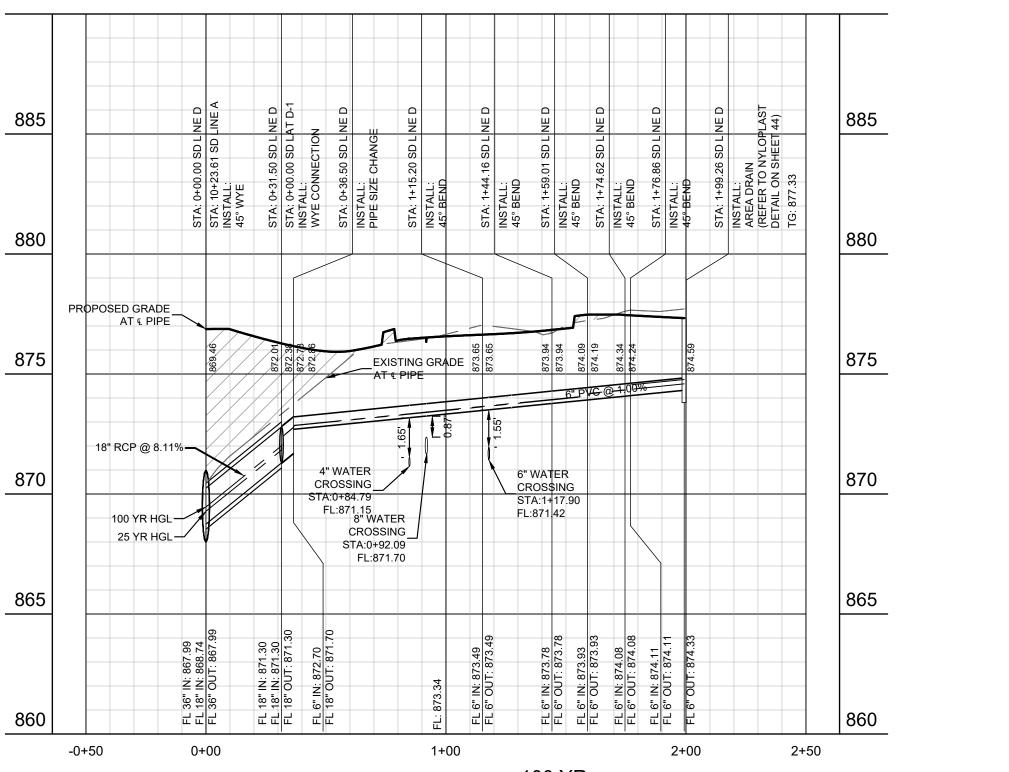
6 9	1+65.69	0+8	1.11]	0+81.11	0+0	0.00
.f.s.	Q100=	22.54	c.f.s.	1	Q100=	27.42	c.f.s.
.f.s.	Qcap=	16.00	c.f.s.	1	Qcap=	16.00	c.f.s.
/sec	Vp=	7.17	ft/sec		Vp=	8.73	ft/sec
/ft	sf=	0.005	ft/ft		sf=	0.005	ft/ft
	n=	0.013		1	n=	0.013	
	d=	2.00	ft		d=	2.00	ft

Æ

RM PROFILES	CEDAR	VELSA RANCH	KHA PROJECT 069274402 069274402 UATE DATE DATE DATE DECEMBER 2022 ANN BY ANN BY A	Construction Construction Construction © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 2022 KIMLEY-HORN AND ASSOCIATES, INC. 260 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX 75069 PHONE: 469-301-2580 FAX: 972-239-3820 WWWY.KIMLEY-HORN.COM TX F-928		N	08/19/2024 RPS
	PARK	CEDAR PARK, TEXAS	CHECKED BY RPS		No.	REVISIONS	DATE BY







SD LINE D

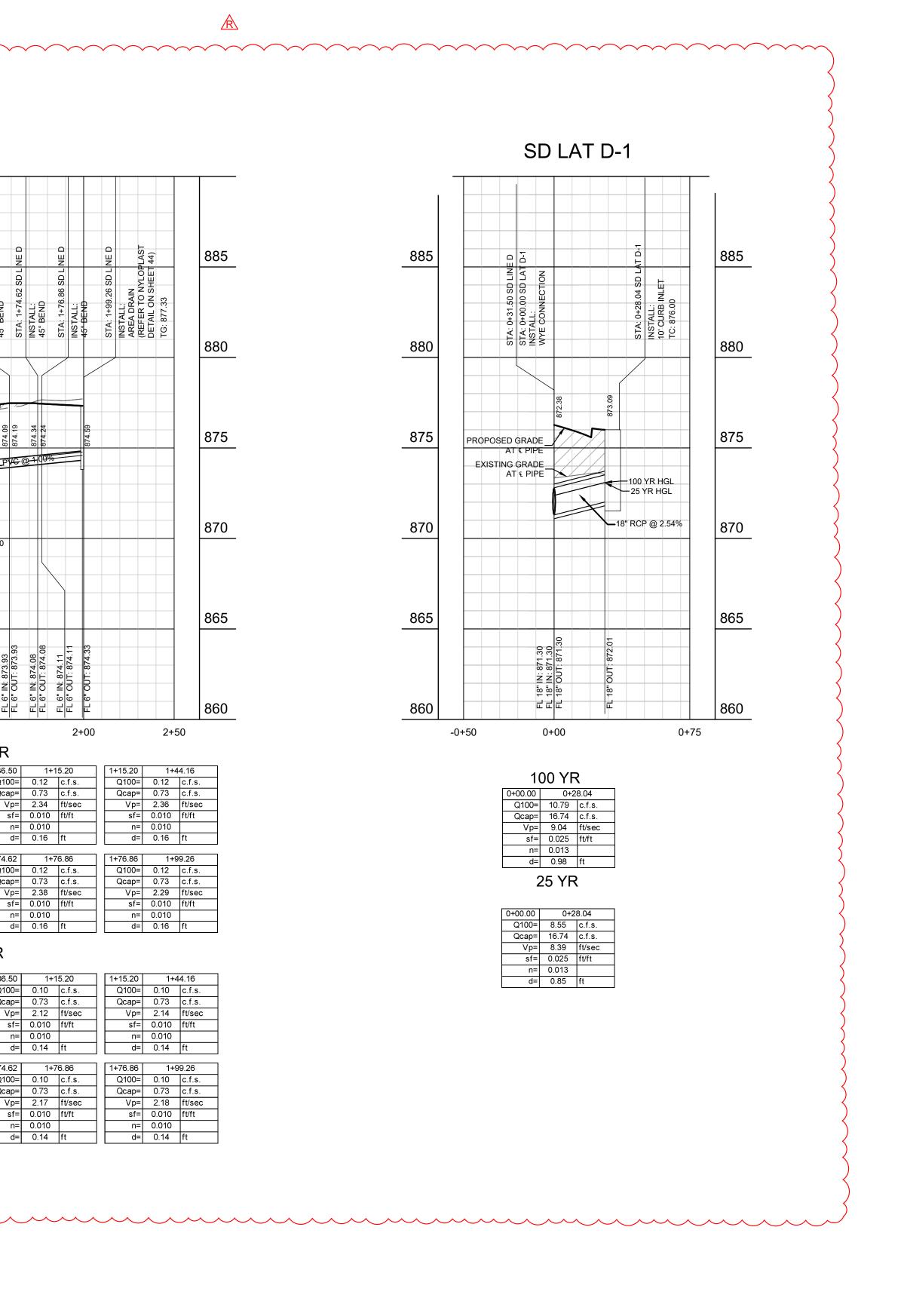
100 YR

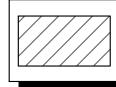
0+00.00	0+3	31.50	0+31.50	0+3	36.50	0+36.50	1+1	15.20	1+15.20	1+4	14.16
Q100=	10.44	c.f.s.	Q100=	0.12	c.f.s.	Q100=	0.12	c.f.s.	Q100=	0.12	c.f.s.
Qcap=	29.91	c.f.s.	Qcap=	2.08	c.f.s.	Qcap=	0.73	c.f.s.	Qcap=	0.73	c.f.s.
Vp=	13.54	ft/sec	Vp=	5.86	ft/sec	Vp=	2.34	ft/sec	Vp=	2.36	ft/sec
sf=	0.081	ft/ft	sf=	0.081	ft/ft	sf=	0.010	ft/ft	sf=	0.010	ft/ft
n=	0.013		n=	0.010		n=	0.010		n=	0.010	
d=	0.68	ft	d=	0.08	ft	d=	0.16	ft	d=	0.16	ft
								•	· · · · · ·		
1+44.16	1+5	59.01	1+59.01	1+7	74.62	1+74.62	1+7	76.86	1+76.86	1+9	99.26
1+44.16 Q100=	1+5 0.12	9.01 c.f.s.	1+59.01 Q100=	1+7 0.12	74.62 c.f.s.	1+74.62 Q100=	1+7 0.12	76.86 c.f.s.	1+76.86 Q100=	1+9 0.12	99.26 c.f.s.
Q100=	0.12	c.f.s.									
Q100= Qcap=	0.12 0.73	c.f.s. c.f.s.	Q100= Qcap=	0.12 0.73	c.f.s. c.f.s.	Q100= Qcap=	0.12 0.73	c.f.s. c.f.s.	Q100= Qcap=	0.12	c.f.s. c.f.s.
Q100= Qcap= Vp=	0.12 0.73 2.37	c.f.s. c.f.s. ft/sec	Q100= Qcap= Vp=	0.12 0.73 2.38	c.f.s. c.f.s. ft/sec	Q100= Qcap= Vp=	0.12 0.73 2.38	c.f.s. c.f.s. ft/sec	Q100= Qcap= Vp=	0.12 0.73 2.29	c.f.s. c.f.s. ft/sec

0+00.00	0+3	81.50	0+31.50	0+3	36.50	0+36.50	1+1	15.20	1+15.20	1+4	14.16
Q100=	8.20	c.f.s.	Q100=	0.09	c.f.s.	Q100=	0.10	c.f.s.	Q100=	0.10	c.f.s.
Qcap=	29.91	c.f.s.	Qcap=	2.08	c.f.s.	Qcap=	0.73	c.f.s.	Qcap=	0.73	c.f.s.
Vp=	12.42	ft/sec	Vp=	6.22	ft/sec	Vp=	2.12	ft/sec	Vp=	2.14	ft/sec
sf=	0.081	ft/ft	sf=	0.081	ft/ft	sf=	0.010	ft/ft	sf=	0.010	ft/ft
n=	0.013		n=	0.010		n=	0.010		n=	0.010	
d=	0.61	ft	d=	0.07	ft	d=	0.14	ft	d=	0.14	ft
1+44.16	1+5	59.01	1+59.01	1+7	74.62	1+74.62	1+7	76.86	1+76.86	1+9	99.26
Q100=	0.10	c.f.s.									
Qcap=	0.73	c.f.s.									
Vp=	2.15	ft/sec	Vp=	2.17	ft/sec	Vp=	2.17	ft/sec	Vp=	2.18	ft/sec
sf=	0.010	ft/ft									
n=	0.010		n=	0.010		n=	0.010		n=	0.010	
d=	0.14	ft									

25 YR

R

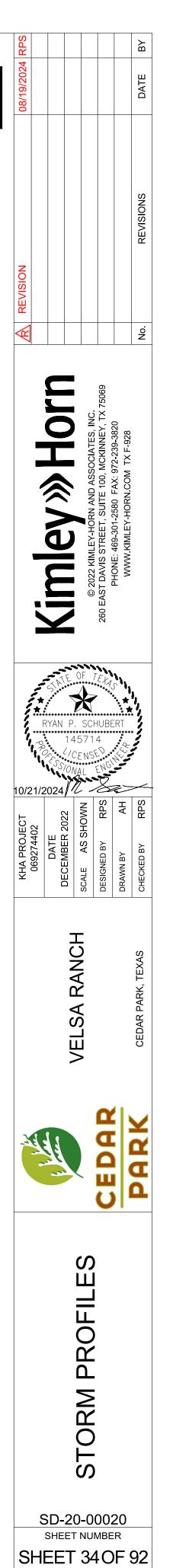


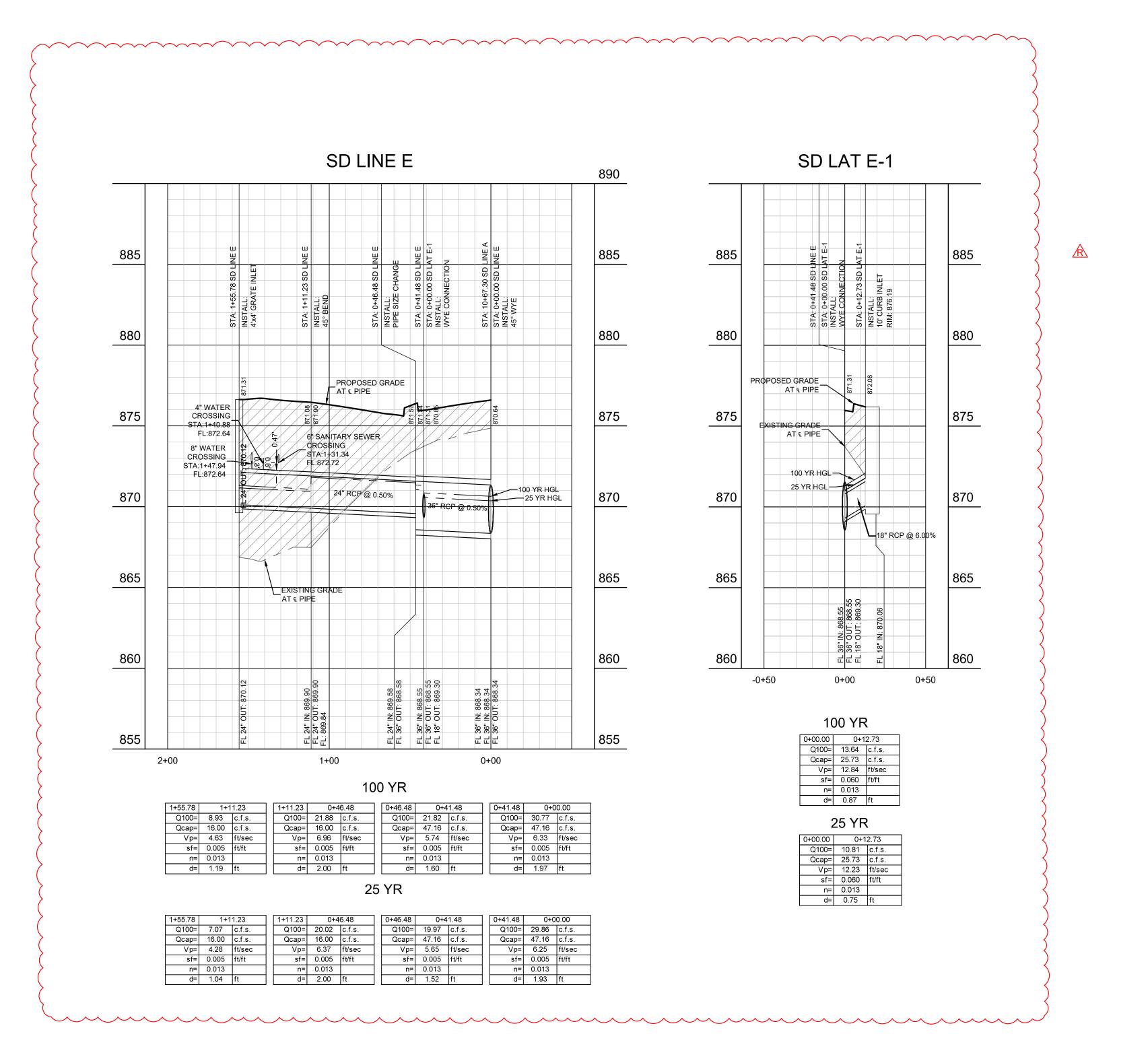


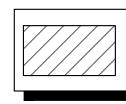
FILL TO BE COMPACTED TO 95% STD PROCTOR DENSITY OR PER GEOTECH RECOMMENDATION

PROFILE SCALE 1"=40' HORIZONTAL

1"=4' VERTICAL







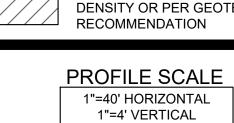
FILL TO BE COMPACTED TO 95% STD PROCTOR DENSITY OR PER GEOTECH RECOMMENDATION

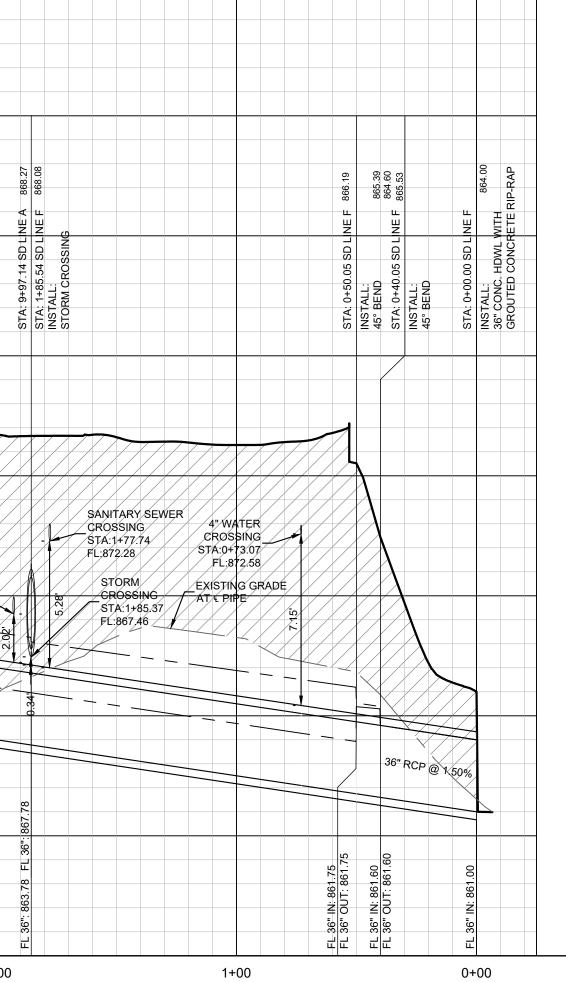
PROFILE SCALE 1"=40' HORIZONTAL 1"=4' VERTICAL

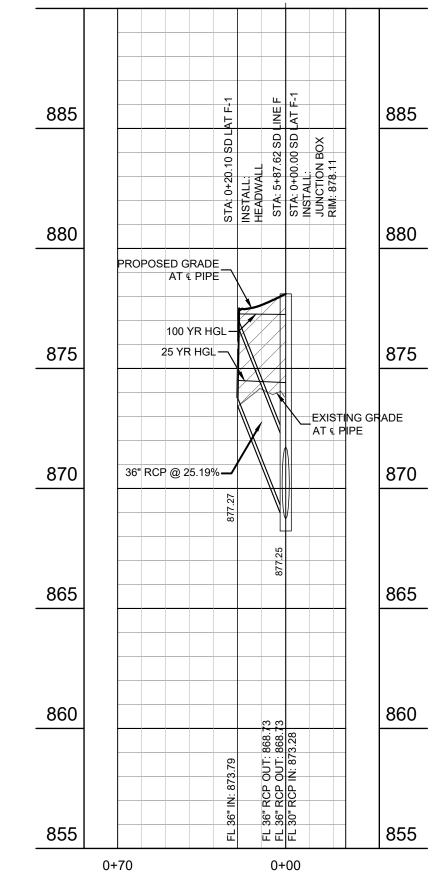
08/19/2024 RPS					DATE BY
REVISION					REVISIONS
R					No.
	KIMIeV »HOrn	© 2022 KIMLEY-HORN AND ASSOCIATES, INC.	260 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX 75069 DHONE: 460 301 3550, EAV: 073 330 3820	WWW KIMLEY-HORN COM TX F-239-3020	
KHA PROJECT 069274402	DECEMBER 2022 PT 14 NOV 55 53 57 NOV 55 55 57 NOV 55 NOV 55 57 NO	SCHE AS SHOWN		DRAWN BY AH	CHECKED BY RPS
					CEDAR PARK, TEXAS
			CEDAR		PARK
		STORM PROFILES			
	<u>5D-20</u> SHEET EET	NUN	ИВЕ	R	92

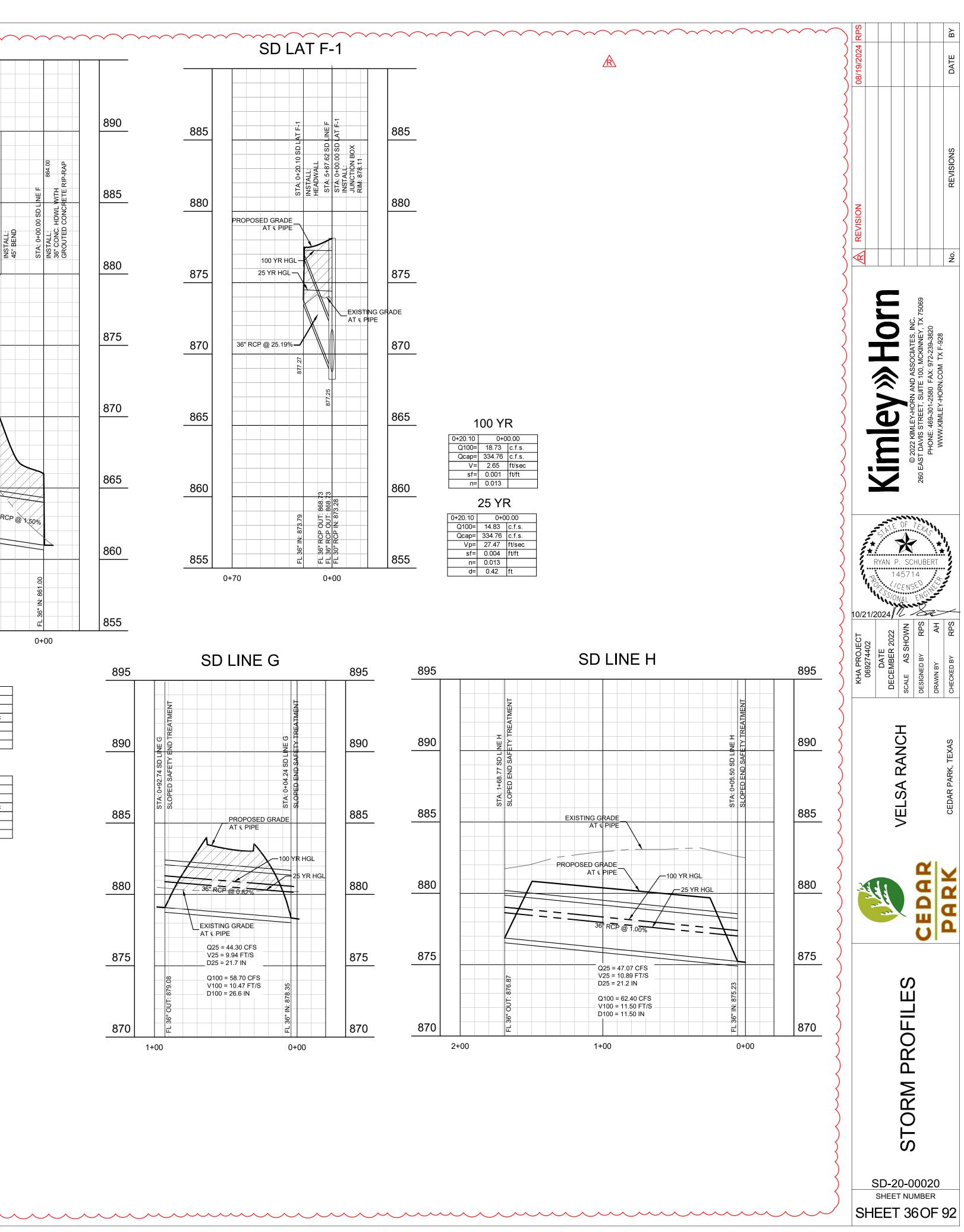
STA: 5+93.73 SD LNE F REMOVE EX. HDWL &		Image: Section of the section of t	STA: 9+97.14 SD L NE A 868.27 STA: 9+97.14 SD L NE F 868.08 INSTALL: STORM CROSSING STORM CROSSING	STA: 0+50.05 SD L NE F 866.19 INSTALL: 865.39 45° BEND
		1.04 FL:873.03 Tho VP HCL	SANITARY SEWER	
	I N 36" RCP @ 0.50% 00.50% 00.7428 Inno 00.100 Inno Inno Inno Inno Inno Inno Inno Inno	CROSSING SANJTARY SEWER STA:4+42.92 5 FL:872.30 100 100 STA:3+358,311 FL:871,45 STA:3+358,311 100 STA:3+358,	WATER	WATER ØSSING 10+73.07 L:872.58 JIING GRADE PIPE ID ID ID ID ID ID ID ID ID ID
20 6	FL 30" IN: 873.28 FL 36" OUT: 868.73 FL 36" OUT: 868.73 FL 36" OUT: 868.73 FL 36" IN: 868.61 FL 36" IN: 868.61 FL 36" OUT: 868.53 FL 36" OUT: 868.53	5+00 4+00 3+00		1+00
5+93.73 Q100= Qcap= V= sf=	3 5+87.62 = 61.77 c.f.s. = 141.26 c.f.s. = 12.58 ft/sec	100 YR 95 5+63.95 5+48.58 5+48.58 3+69.10 3+69.10 3+44.16 3+44.16 1+85.54	1+85.54 0+50.05 0+50.05 0+40. Q100= 78.67 c.f.s. Q100= 78.08 c Qcap= 81.69 c.f.s. Qcap= 81.69 c	05 0+40.05 0+00.0 c.f.s. Q100= 78.03 c.1 c.f.s. Qcap= 81.69 c.1 t/sec Vp= 12.07 ft/
5+93.73 Q100= Qcap= Vp= sf= n=	48.92 c.f.s. Q100= 63.75 c = 141.26 c.f.s. Qcap= 47.16 c = 22.83 ft/sec Vp= 9.02 ft = 0.119 ft/ft sf= 0.005 ft	.f.s. Q100= 63.62 c.f.s. Q100= 63.54 c.f.s. Q100= 62.79 c.f.s. Q100= 62.68 c.f.s.	. Qcap= 81.69 c.f.s. Qcap= 81.69 c	Q100= 61.54 c. c.f.s. Qcap= 81.69 c. t/sec Vp= 11.29 ft/

Cedar Park Logo : xBrdr : oStrm 9/30/2024 3:08 PM SCHUBERT, RYAN K:AUS_CIVIL\0692? STORM PROFILES. IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

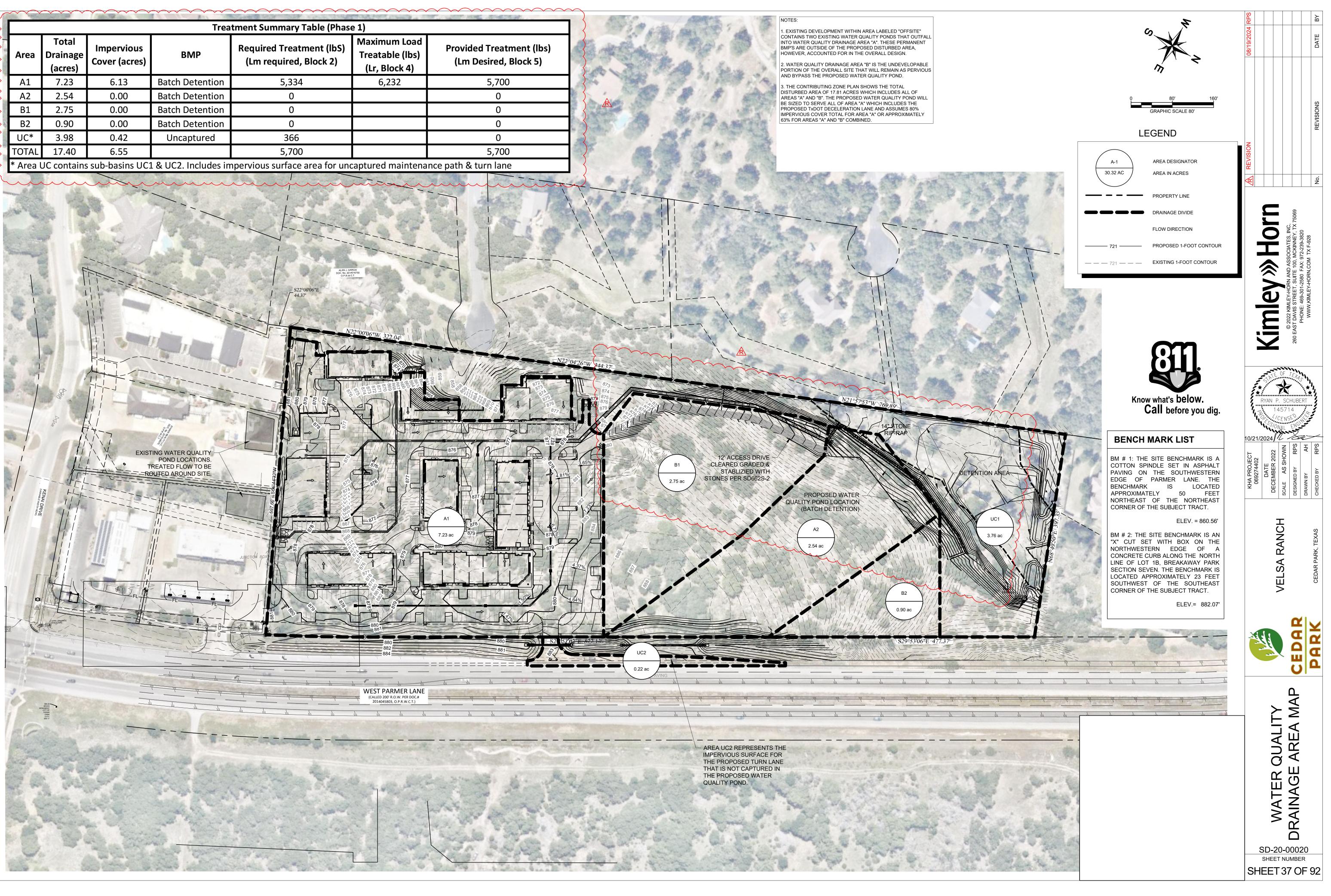


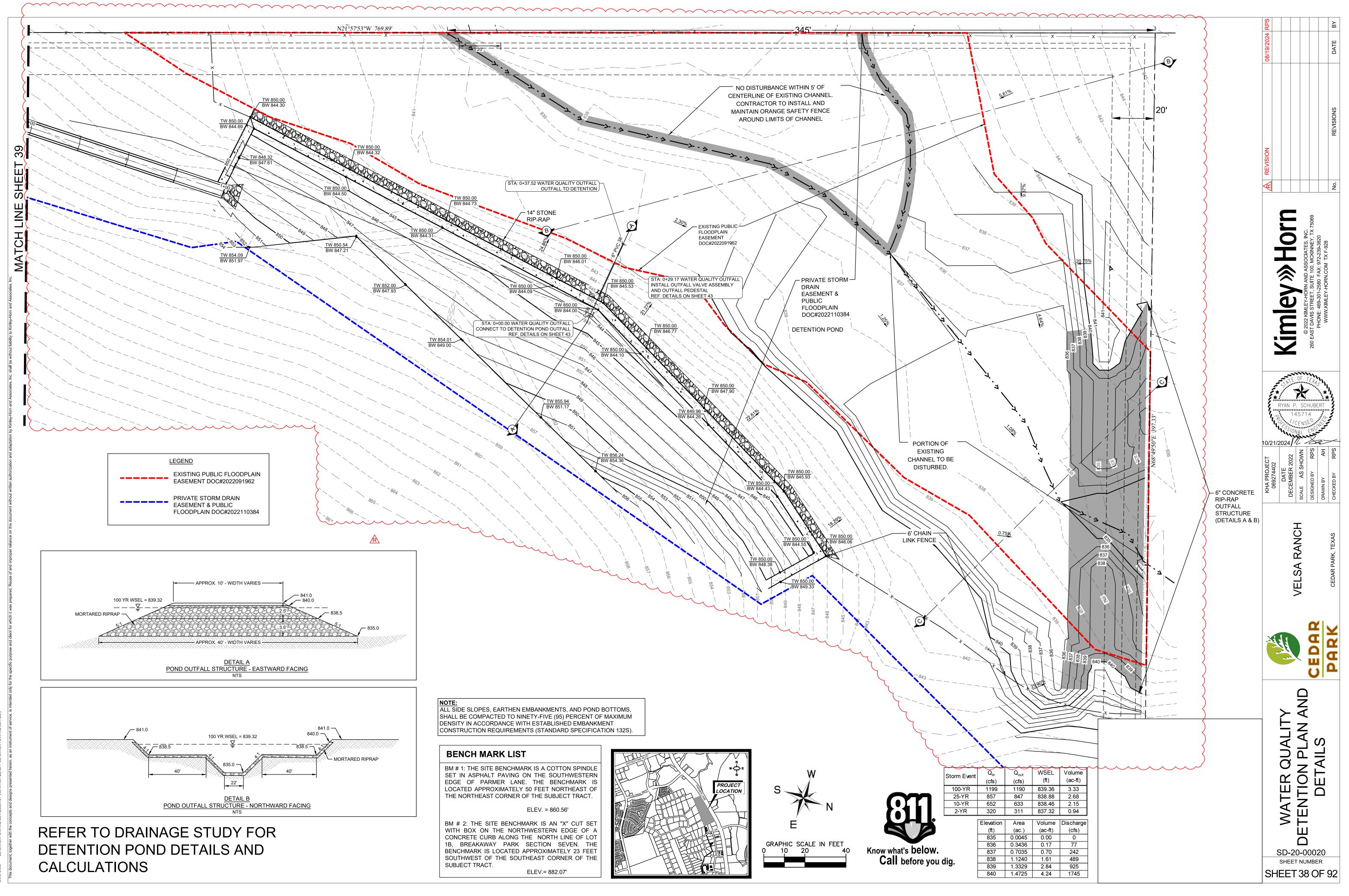




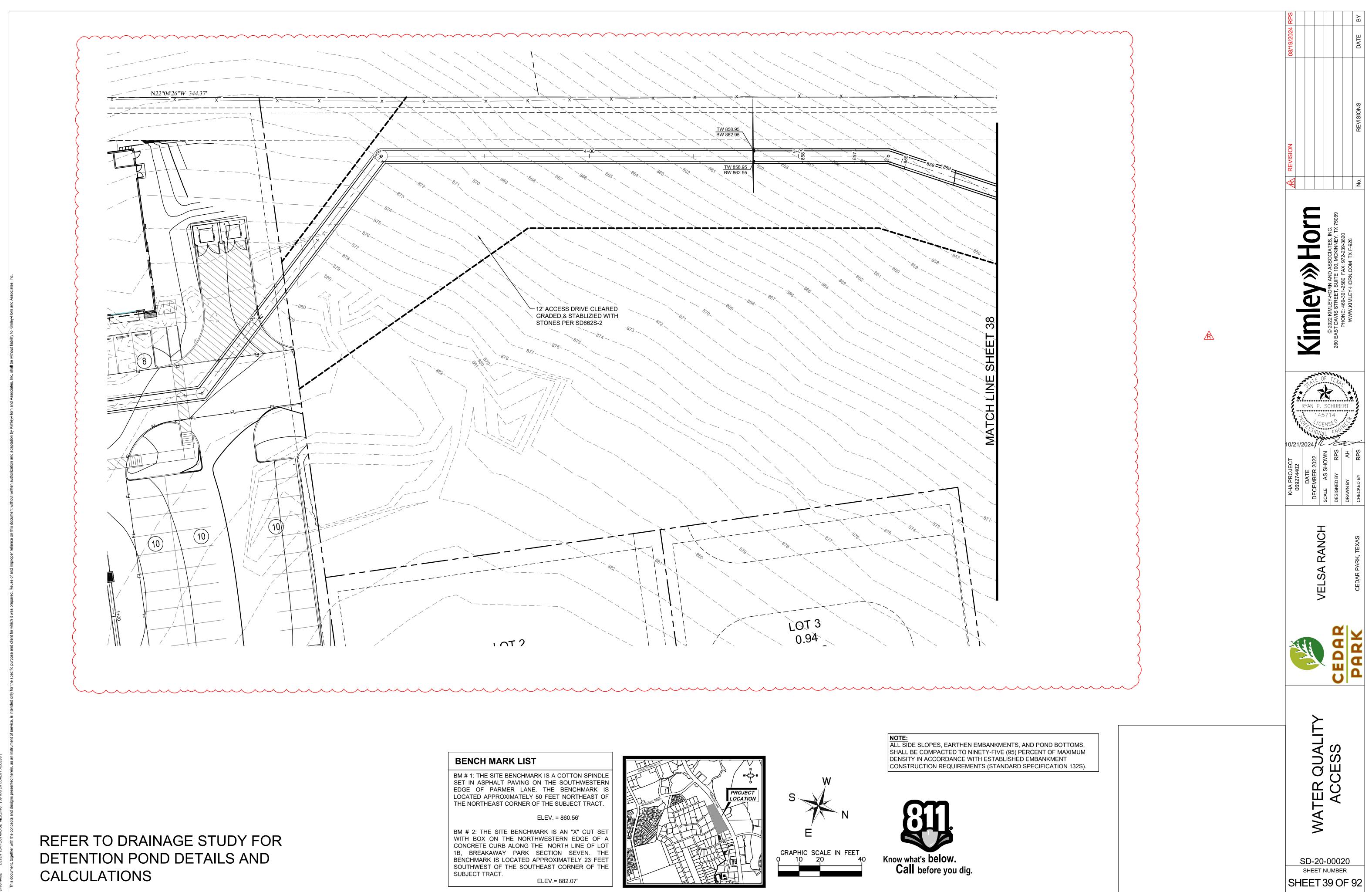


				Trea	tment Summary Table (Phas	e 1)	
6.000 C	Area	Total Drainage (acres)	Impervious Cover (acres)	BMP	Required Treatment (lbS) (Lm required, Block 2)	Maximum Load Treatable (lbs) (Lr, Block 4)	Pro (
	A1	7.23	6.13	Batch Detention	5,334	6,232	
	A2	2.54	0.00	Batch Detention	0		
The second	B1	2.75	0.00	Batch Detention	0		
C.S.	B2	0.90	0.00	Batch Detention	0		
Control of	UC*	3.98	0.42	Uncaptured	366		
1	FOTAL	17.40	6.55		5,700		
*	Area l	JC contains	s sub-basins UC	L & UC2. Includes in	npervious surface area for une	captured maintenai	nce pat

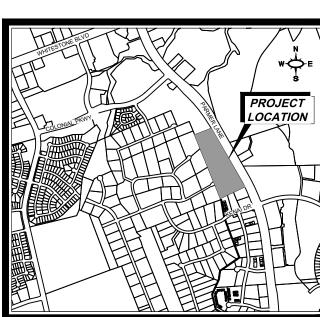




MAGES Cedar Park Logo: XREFS Xerr : xsurv : xSite : xStrm : Bioretention Pond Plan and Details : xEsmts LAST SADED 101/02203 9:42 AM PLOTTED BY SCHUBERT: XYAN 10/21/2024 7:03 PM PLOTTED BY K:AUS_CIVIL069274402-CEDAR PARK - PARMER 17 ACRE/CAD/PLANSHEETS DWG PATH K:AUS_CIVIL069274402-CEDAR PARK - PARMER 17 ACRE/CAD/PLANSHEETS DWG NAME DETENTION PLAN AND DETAILS.DWG , [38 WATER QUALITY DETENTION PLAN AND DETAILS





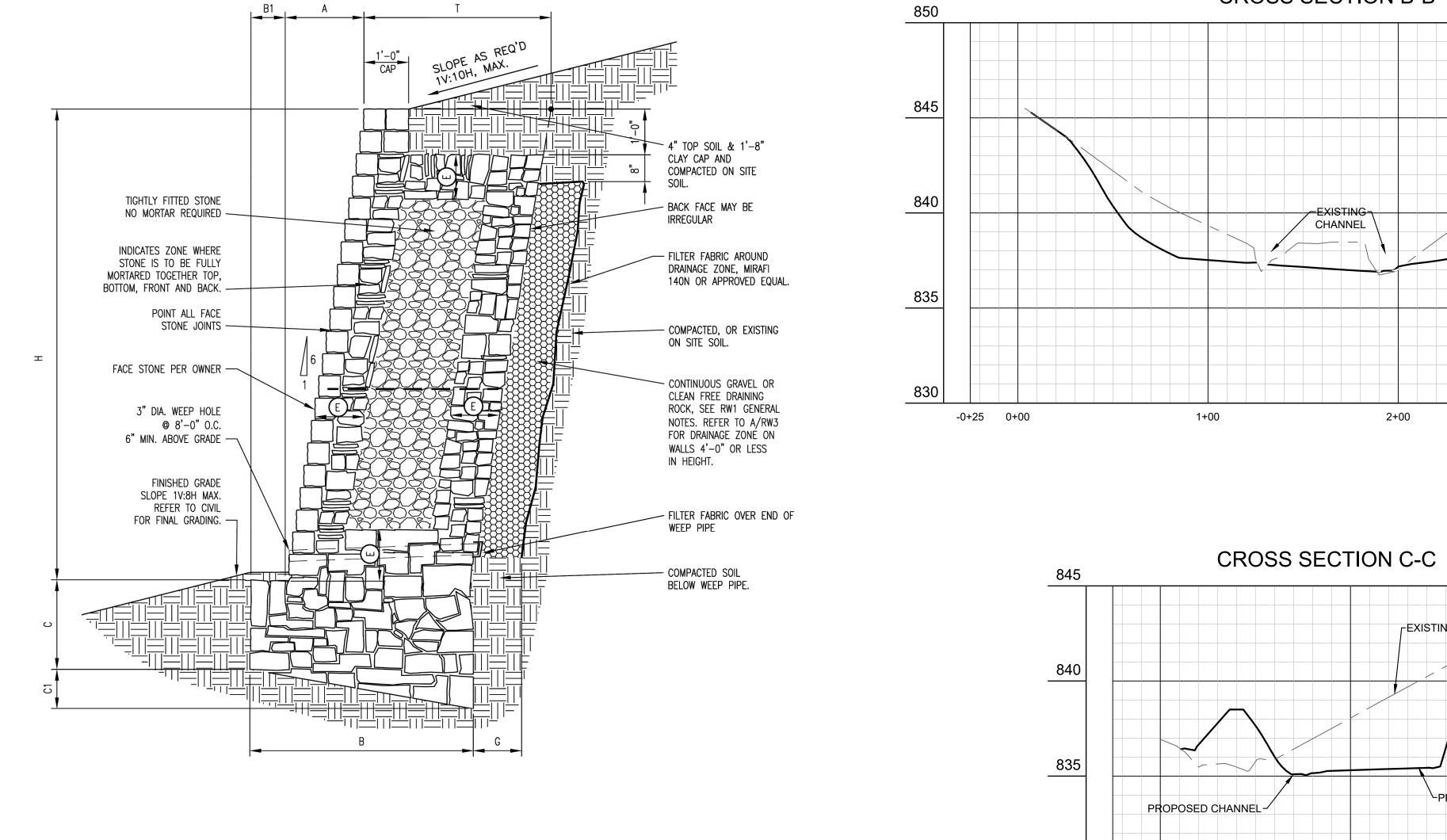


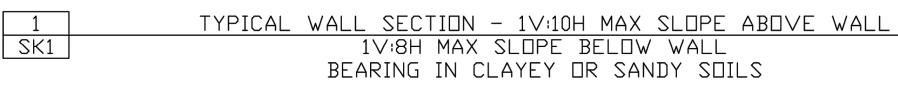












CROSS SECTION B-B

-EXISTING-

CHANNEL

830

-0+25 0+00

2+00

1+00

FEXISTING GRADE

2+00

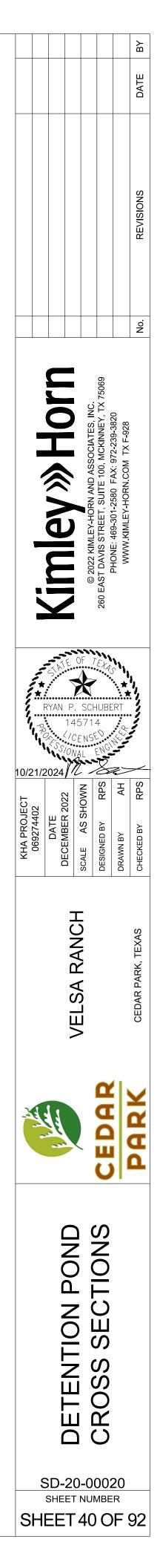
-PROPOSED GRADE

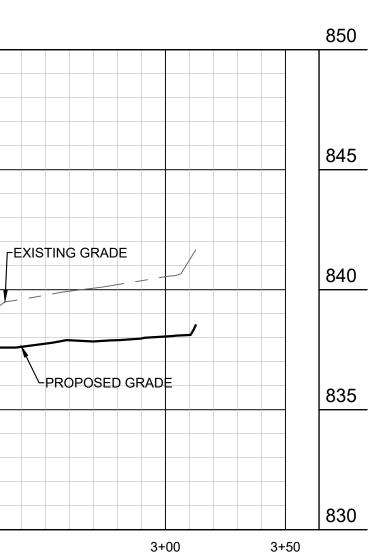
845

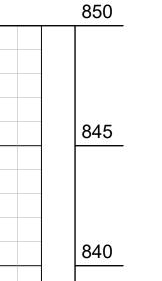
840

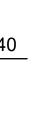
835

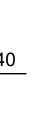
830

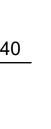


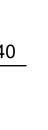


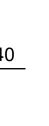


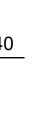


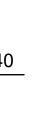


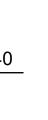


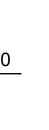


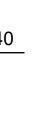


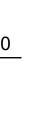




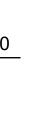


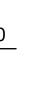


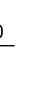




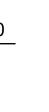






































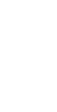










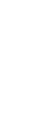






















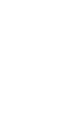






















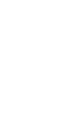














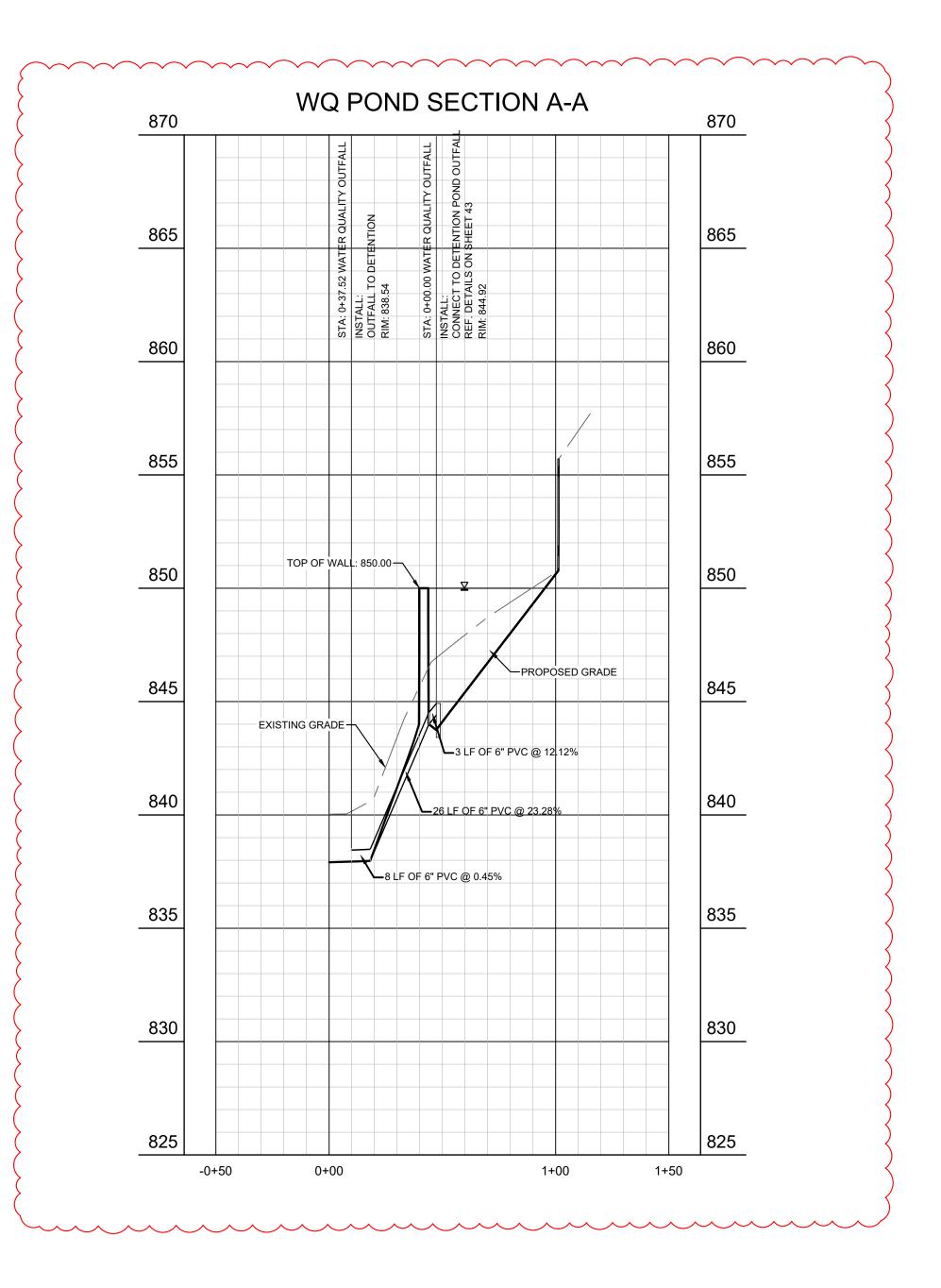












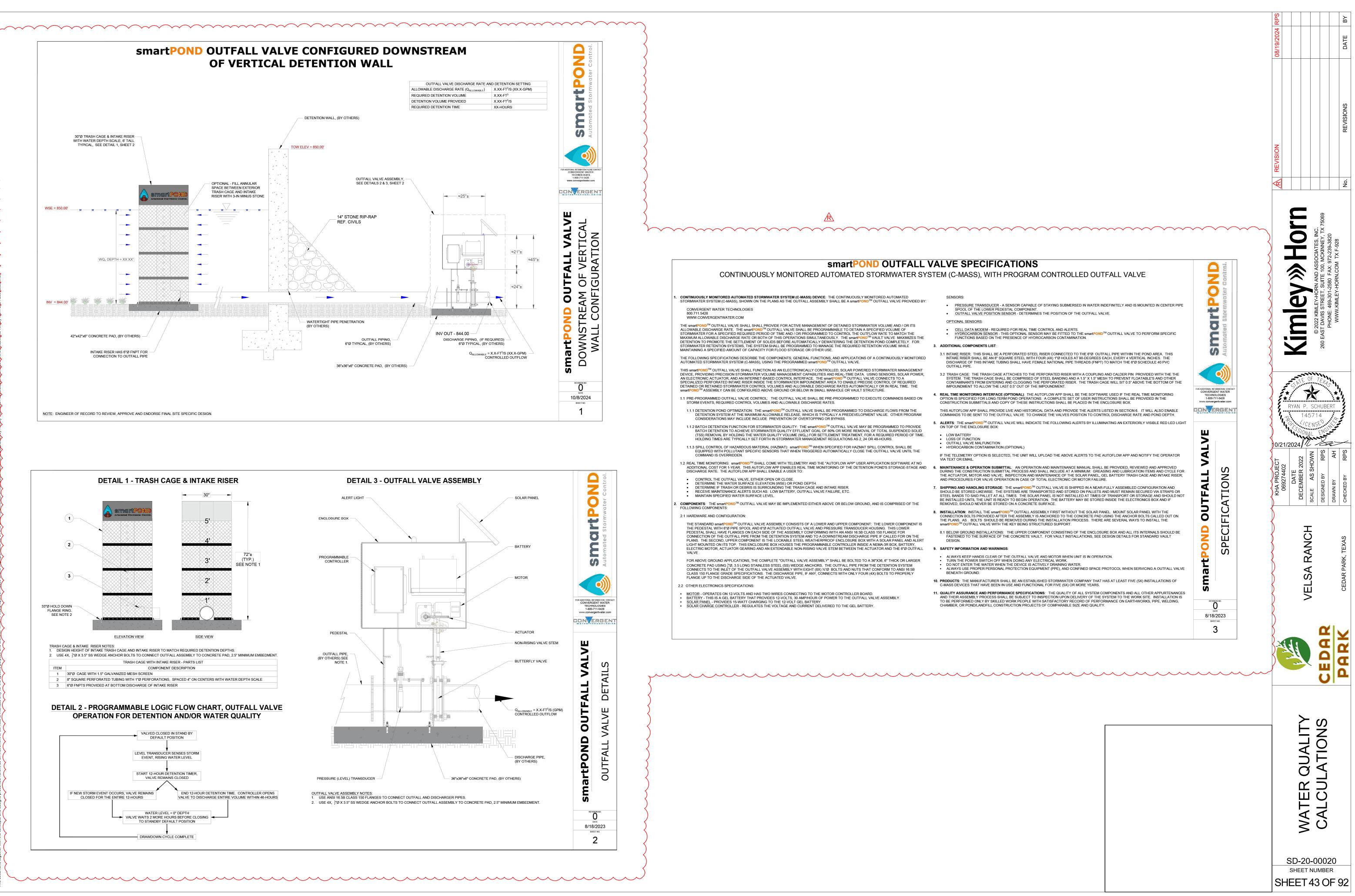
R

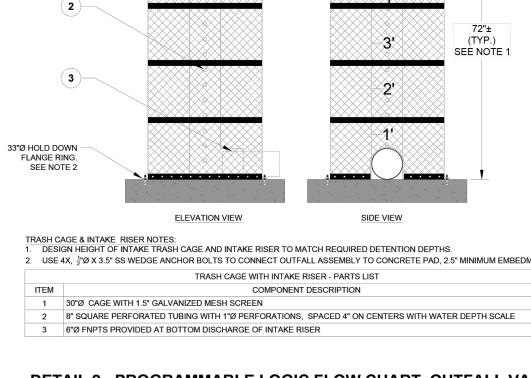
				ВΥ
				DATE
				REVISIONS
				No.
Kimley » Horn	© 2022 KIMLEY-HORN AND ASSOCIATES, INC.	260 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX 75069	PHONE: 469-301-2380 FAX: 972-239-3820 WWW.KIMLEY-HORN.COM TX F-928	
S. M.E. RYAN P. 14 22 55/01 2024	OF 7 SCH 571 CENS	IUBE		, Munuer
DATE DECEMBER 2022	SCALE AS SHOWN	DESIGNED BY RPS	DRAWN BY AF	СНЕСКЕД ВУ RPS
	VELOA RAINCH			CEDAR PARK, TEXAS
				PARK
)	CION		
	DECEMBER 2022	VELSA RANCH Scale AS SHOWN COLORS HOWN COLORS HOWN COLORS HOWN COLORS AS SHOWN COLORS AS CALLED AND AS COLORS AS CALLED AND AS COLORS AND AS COLOR	VELSA RANCH Scale AS SHOWN Scale AS STREFT, SUITE 100, MCKIN Scale AS STREFT, SUITE 10	VELSA RANCH Scale AS SHOWN Scale AS SHOWN Besiched BY Desiched BY RAWN BY DRAWN BY D

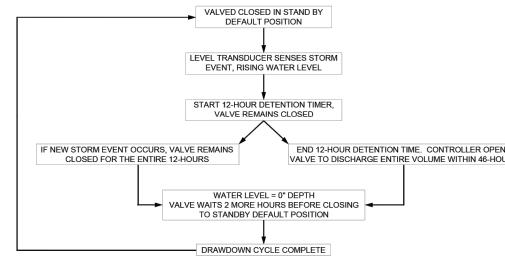
	ssion on Environmental Quality						
TSS Removal Ca	alculations 04-20-2009			Project Name: VESLA R Date Prepared: 4/24/2024			
<u>1. The Required Loa</u>	ad Reduction for the total project:	Calculation	s from RG-348	Pages 3-27	to 3-30		
	Page 3-29 Equation 3.3: L _M =	27.2(A _N x F	')				
where:				sulting from the proposed developments area for the project	nt = 80% (of increased	load
			nual precipitati				
Site Data: Detern	rmine Required Load Removal Based on the Entire Project County =	t Williamso	on ¶				
Predevel	Total project area included in plan * = elopment impervious area within the limits of the plan * =	17.40	acres acres				
	velopment impervious area within the limits of the plan* =	6.55	acres				
	Total post-development impervious cover fraction * = P =		inches				
* The values entered	L _{M TOTAL PROJECT} = ed in these fields should be for the total project area		lbs.				
	ta in alese heras should be for ale total project area						
Number of	of drainage basins / outfalls areas leaving the plan area =	1					
2 Drainago Pasin Br	arameters (This information should be provided for	each basir)). 				
	Parameters (This information should be provided for		<u>1/.</u>				
	Drainage Basin/Outfall Area No. =						
Predevelopm	= Total drainage basin/outfall area = ment impervious area within drainage basin/outfall area		acres acres				
	ment impervious area within drainage basin/outfall area =	6.13	acres				
	nt impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} =		lbs.				
Post-development	nt impervious fraction within drainage basin/outfall area =		lbs.				
Post-development	nt impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} = posed BMP Code for this basin. Proposed BMP =	5334 Batch Exte		on			
Post-development	nt impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} = rosed BMP Code for this basin. Proposed BMP = Removal efficiency =	5334 Batch Exte 91	ended Detenti percent				
Post-development	nt impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} = rosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin	5334 Batch Exte 91 by the sele	ended Detenti percent ected BMP Ty	pe.			
Post-development 3. Indicate the propo 4. Calculate Maximu	nt impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} = rosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R =	5334 Batch Exte 91 by the sele	ended Detenti percent ected BMP Ty ency) x P x (A	pe. I x 34.6 + A _P x 0.54)			
Post-development 3. Indicate the propo	nt impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} = mosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are	pe. I x 34.6 + A _P x 0.54) ea in the BMP catchment area			
Post-development 3. Indicate the propo 4. Calculate Maximu	nt impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} = mosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _I =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed	pe. I x 34.6 + A _P x 0.54)			
Post-development 3. Indicate the propo 4. Calculate Maximu	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$ nosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _L = A _L = A _L =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area	BMP		
Post-development 3. Indicate the propo 4. Calculate Maximu	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$ nosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _L = A _L = A _L =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an TSS Load r	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area	BMP		
Post-development 3. Indicate the propo 4. Calculate Maximu	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$ mosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _L = A _R = A _C = A _L = A _L =	5334 Batch Exte 91 by the sele (BMP efficie (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from the acres acres	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area	BMP		
Post-development 3. Indicate the propo 4. Calculate Maximu	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$ nosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _L = L _R = A _C =	5334 Batch Externel 91 by the sele (BMP efficient (BMP efficient Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from the acres	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area	BMP		
Post-development 3. Indicate the propo 4. Calculate Maximu	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$ mosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_C =$ $A_R =$ $A_C =$ $A_R =$	5334 Batch Externel 91 by the sele (BMP efficient (BMP efficient Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in emoved from the acres acres acres	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area			
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = iosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _L = A _R = A _L = A _L = A _L = A _L = A _L = A _L =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in emoved from the acres acres acres	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area		Image: Constraint of the sector of the se	
Post-development	Int impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$ Interpret to the proposed BMP = Removal efficiency = INTSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _C = A _R = A	5334 Batch External by the sele (BMP efficient Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in emoved from th acres acres acres acres	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area			
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = iosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _L = A _R = A _L = A _L = A _L = A _L = A _L = A _L =	5334 Batch External by the sele (BMP efficient Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in emoved from the acres acres acres	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area			
Post-development	Int impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN} =$ Interpret to the proposed BMP = Removal efficiency = INTSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _C = A _R = A	5334 Batch Externel 91 by the sele (BMP efficient Total On-Si Impervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in emoved from th acres acres acres acres	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area			
Post-development 3. Indicate the propo 4. Calculate Maximu where: 1 5. Calculate Fraction 5. Calculate Fraction	nt impervious fraction within drainage basin/outfall area = L _{M THIS BASIN} = losed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _L = A _C = L _R = A _C = A _L	5334 Batch Externel 91 by the selection (BMP efficient Total On-Si Impervious and TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in emoved from th acres acres acres lbs	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area h the BMP catchment area			
Post-development 3. Indicate the propo 4. Calculate Maximu where: 1 5. Calculate Fraction 5. Calculate Fraction	nt impervious fraction within drainage basin/outfall area = L_M THIS BASIN = iosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _L = A _C = A _L = L _R = in of Annual Runoff to Treat the drainage basin / out Desired L _M THIS BASIN = F = e Volume required by the BMP Type for this drainage	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 ge basin / o	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in emoved from th acres acres acres lbs lbs.	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area his catchment area by the proposed i i i i i i i i i i i i i i i i i i i		-34 to 3-36	
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = cosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L_R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _C = A _R = L _R = A _L = C _R	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 ge basin / o	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining in emoved from th acres acres acres lbs	pe. x 34.6 + A _P x 0.54) ea in the BMP catchment area in the BMP catchment area his catchment area by the proposed i i i i i i i i i i i i i i i i i i i		- - <td< td=""><td></td></td<>	
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = iosed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _L = A _R = A _R = A _R = A _R = C	5334 Batch Exte 91 by the sele (BMP efficient Total On-Si Impervious and TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 e basin / o 1.80 0.44	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from tl acres acres acres lbs lbs.	pe. x 34.6 + A _P x 0.54) a in the BMP catchment area in the BMP catchment area his catchment area by the proposed bis catchment area by the proposed catchment area by the proposed ca		 	
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = losed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _L = A _L = A _L = A _R = A _R = A _R = A _R = an of Annual Runoff to Treat the drainage basin / out Desired L _{M THIS BASIN} = F = e Volume required by the BMP Type for this drainage Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 e basin / o 1.80 0.44 28145	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from tl acres acres lbs lbs. lbs. <u>utfall area.</u> inches cubic feet	pe.		Image: set of the set of	
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = losed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _L = A _L = A _L = A _R = A _R = A _R = A _R = an of Annual Runoff to Treat the drainage basin / out Desired L _{M THIS BASIN} = F = e Volume required by the BMP Type for this drainage Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 e basin / o 1.80 0.44 28145	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from tl acres acres lbs lbs. lbs. <u>utfall area.</u> inches cubic feet	pe. x 34.6 + A _P x 0.54) a in the BMP catchment area in the BMP catchment area his catchment area by the proposed bis catchment area by the proposed catchment area by the proposed ca			
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = osed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A_{C} = A_{L} = A_{C} = A_{I} = A_{P} = L_{R} = A_{P} = L_{R} = in of Annual Runoff to Treat the drainage basin / out Desired L _{M THIS BASIN} = F = e Volume required by the BMP Type for this drainage Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 e basin / o 1.80 0.44 28145 Calculation 3.65	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from tl acres acres lbs lbs. lbs. <u>utfall area.</u> inches cubic feet s from RG-348 acres	pe.			
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = osed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = A _C = A _C = A _L = L _R = C _R = A _L = A _P = L _R = n of Annual Runoff to Treat the drainage basin / out Desired L _{M THIS BASIN} = F = e Volume required by the BMP Type for this drainage Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area =	5334 Batch Exte 91 by the sele (BMP efficie (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 e basin / o 1.80 0.91 je basin / o	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from th acres acres acres lbs lbs. lbs.	pe.		Image: set of the set of	
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = osed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = $A_C =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ $A_C =$ $A_I =$ $A_P =$ $L_R =$ In of Annual Runoff to Treat the drainage basin / out Desired L _{M THIS BASIN} = F = te Volume required by the BMP Type for this drainage Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site area draining to BMP =	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 e basin / o 1.80 0.44 28145 Calculation 3.65 0.00 0.02	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from tl acres acres lbs lbs. lbs. <u>utfall area.</u> inches cubic feet s from RG-348 acres	pe.		Image: set in the set in	
Post-development	nt impervious fraction within drainage basin/outfall area = $L_{M THIS BASIN}$ = osed BMP Code for this basin. Proposed BMP = Removal efficiency = um TSS Load Removed (L _R) for this Drainage Basin RG-348 Page 3-33 Equation 3.7: L _R = $A_C =$ $A_C =$ $A_L =$ $A_R =$ $L_R =$ $A_C =$ $A_L =$ $A_C =$ $A_L =$ $A_R =$ A	5334 Batch Exte 91 by the sele (BMP efficie Total On-Si Impervious Pervious an TSS Load r 9.77 6.13 3.64 6232 fall area 5700 0.91 e basin / o 1.80 0.91 je basin / o 1.80 0.44 28145 Calculation 3.65 0.00 0.02 477	ended Detenti percent ected BMP Ty ency) x P x (A te drainage are area proposed ea remaining ir emoved from th acres acres lbs lbs. utfall area. inches cubic feet s from RG-348 acres	pe.		- - <td< td=""><td></td></td<>	

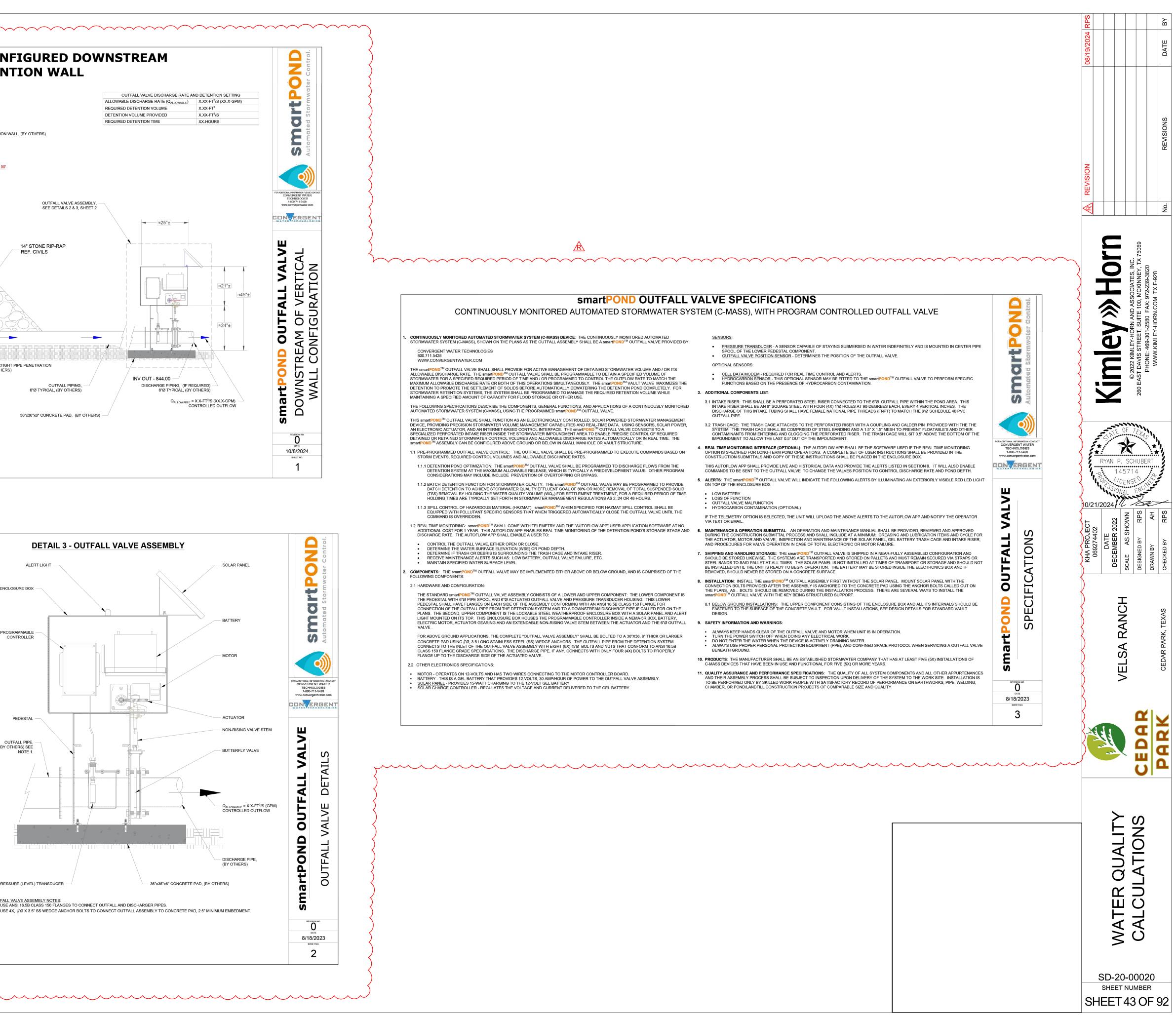
MAGES Cedar Park Logo: XREFS xBrd : xsurv : xSite : xStrm LAST SAVED 10/10/2024 9:11 AM PLOTTED BY SCHUBER1, RYAN 102/1/2024 7:03 PM PLOTTED BY SCHUBER1, RYAN 102/1/2024 7:03 PM PWG PARK 17 ACRE/CAD/PLANS DWG P

 08/19/2024 RPS			E BY
08/19/2			DATE
REVISION			REVISIONS
REV			No
	Nimiey »> Horn	© 2022 KIMLEY-HORN AND ASSOCIATES, INC. 260 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX 75069	WWW.KIMLEY-HORN.COM TX F-928
KHA PROJECT 069274402		SCHUBE	DRAWN BY AH CHECKED BY RPS
	VELSA RANCH		CEDAR PARK, TEXAS
		CEDAR	PARK
	WATER QUALITY	CALCULATIONS	
S	HEET	-0002 NUMBE 42 О	









)	1/2024 RPS
FROM)	08/15 DA
UNE A		A REVISION No. REVISIONS
LINE B U <td></td> <td>Horn sociates, inc. mckinney, tx 75069 972-239-3820 A TX F-928</td>		Horn sociates, inc. mckinney, tx 75069 972-239-3820 A TX F-928
LINE C 1+93.48 2+27.56 34.08 C-2 0.010 0.07 0.010 5.00 10.10 5.00 10.13 12.79 0.10 0.12 0.010 0.12 0.010 0.12 0.10 0.10 0.10 0.10 0		Inter-Horn and AS (MLEY-HORN AND AS) IS STREET, SUITE 100, IE: 469-301-2580 FAX:: M.KIMLEY-HORN.COM
LINE D V <td></td> <td>260 EAST DAVI</td>		260 EAST DAVI
LINE UNIC		RYAN P. SCHUBERT 145714
LAT D-1 0.870 0.870 0.870 0.870 0.844 0.844 5.00 0.00 5.00 10.13 12.79 8.55 10.79 0.00 10.79 18 0.013 0.0254 873.09 0.00 1.25 0.00 1.59 874.68 871.30 872.01 875.98 CURB INLET 0+00.00 0+28.04 28.04 D-1 0.870 0.870 0.00 5.00 10.13 12.79 8.55 10.79 0.00 10.79 1.80 0.013 0.0254 873.09 0.00 1.27 1.25 0.00 1.59 874.68 871.30 872.01 875.98 CURB INLET LAT E-1		OJECT 14402 5 SHOWN A RPS RPS RPS
INR SP INR SP INR SP INS NO SPLITER 10.53 10.53 0.97 10.214 5.00 10.31 12.79 130.61 5.00 10.10 12.79 10.31 12.79 10.313 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 10.31 12.79 0.01 10.10 12.59 10.50 14.57 84.08 84.05 10.50 12.59 10.50 84.04 84.05 10.50 12.59 10.50 12.59 10.50 12.59 10.50 12.59 10.50 12.59 10.50 12.59 10.50 12.59 10.50 12.59 10.50 12.59 10.50 12.59 12.59 12.59 12.59 12.59 1		KHA PRC 069274 069274 DATI DATI DATI DATI DATI DATI DATI DATI
LINE F USE F <t< td=""><td></td><td>ELSA RANCH cedar park, texas</td></t<>		ELSA RANCH cedar park, texas
LINE G Image: Construction of the constr		>
LINE I-2 0+00.00 2+03.55 203.55 PARMER B-4, B-5 1.490 0.97 1.445 5.00 0.00 5.00 10.13 12.79 14.64 18.48 0.00 18.48 36 0.013 0.008 877.25 877.41 0.00 0.11 1.25 0.00 0.13 877.54 868.74 873.38 877.88 AREA DRAIN		CEDA

DRAINAGE INLET CALCULATIONS												
INLET NUMBER	Drainage Area	Station	Inlet Type	Inlet Size	SAG OR ON GRADE	Q-25 (CFS)	Q-100 (CFS)	L (ft)	W (ft)	d (ft)	A_{g} (ft ²)	Qi (cfs)
Lat D-1	D-1	0+28.04	S-1	10' CI	SAG	8.55	10.79	10.00	1.50	0.729	N/A	18.19
Lat E-1	E-1	0+12.73	S-1	10' CI	SAG	10.81	13.64	10.00	1.50	0.729	N/A	18.19
Line A	A-1	8+06.10	S-2	4'x4' GI	SAG	3.72	4.71	N/A	N/A	0.50	3.40	12.90
Line A	A-2	10+85.08	S-2	24" AD	SAG	0.88	1.12	N/A	N/A	0.50	1.10	4.18
Line B	B-2	0+00.00	S-2	4'x4' GI	SAG	3.67	4.88	N/A	N/A	0.50	3.40	12.90
Line B	B-3	0+81.11	S-2	4'x4' GI	SAG	3.67	4.88	N/A	N/A	0.50	3.40	12.90
Line B	B-4	1+65.69	S-2	4'x4' GI	SAG	4.01	5.09	N/A	N/A	0.50	3.40	12.90
Line B	B-5	2+52.06	S-2	4'x4' GI	SAG	8.99	11.42	N/A	N/A	0.50	3.40	12.90
Line B	B-6	4+22.50	S-2	4'x4' GI	SAG	4.06	5.14	N/A	N/A	0.50	3.40	12.90
Line B	B-7	6+74.82	S-2	4'x4' GI	SAG	5.89	7.44	N/A	N/A	0.50	3.40	12.90
Line C	C-1	0+31.64	G-2	4'x4' GI	SAG	12.74	16.14	N/A	N/A	0.50	3.40	12.90
Line C	C-2	2+27.56	S-2	24" AD	SAG	0.10	0.12	N/A	N/A	0.50	1.10	4.18
Line D	D-2	1+99.26	S-2	24" AD	SAG	0.10	0.12	N/A	N/A	0.50	1.10	4.18
Line E	E-2	1+55.78	G-2	4'x4' GI	SAG	7.07	8.93	N/A	N/A	0.50	3.40	12.90
Line F	F-2	0+00.00	G-2	4'x4' GI	SAG	14.64	18.48	N/A	N/A	0.50	3.40	12.92

4 7:0 MR F DWG IMAGES Cedar Park Logo: XREFS xBrdr LAST SAVED 8/19/2024 10:37 AM PLOTTED BY SCHUBERT, RYAN 10/21/2024 PLOTTED BY SCHUBERT, RYAN 10/21/2024 DWG PATH K:AUS_CVIL0692744002.CEDA DWG NAME DRAINAGE CALCULATIONS.DV Weir Equation 4-1 from Austin DCM used for Types S-1 and S-4. $Q_i = C_w * (L + 1.8*W) * d^{1.5}$

C_w = 2.3

L = Length of opening (ft) W = Lateral width of depression (ft)

d = Depth at curb measured from the normal cross slope (ft)

Grate Inlets in Sag Condition for Type S-2. $Q_i = C_o * A_g * (2gd)^{0.5}$ (Orifice Equation 4-6)

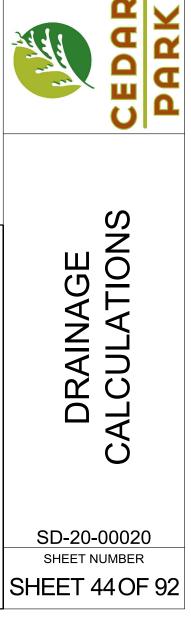
C_o = Orifice Coefficient = 0.67

A_g = Clear Opening Area of the Grate (ft²);

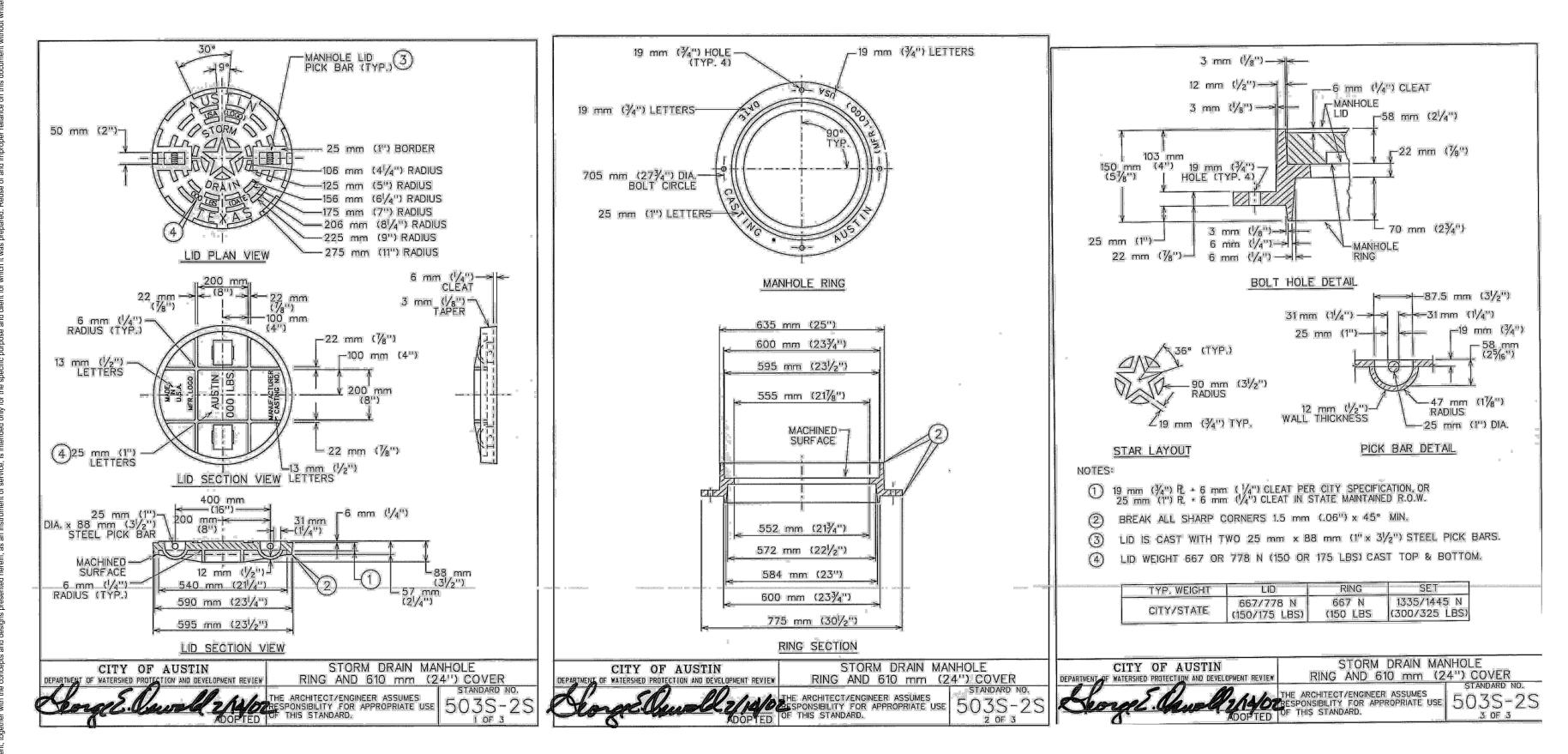
A_g of 30" grate = 489 in² per Park USA Detail = 3.4 ft² (Same 30" grate is used on all boxes)

A_g of 24" area drain = 1.1 ft² d = average depth across the grate; 0.5 ft

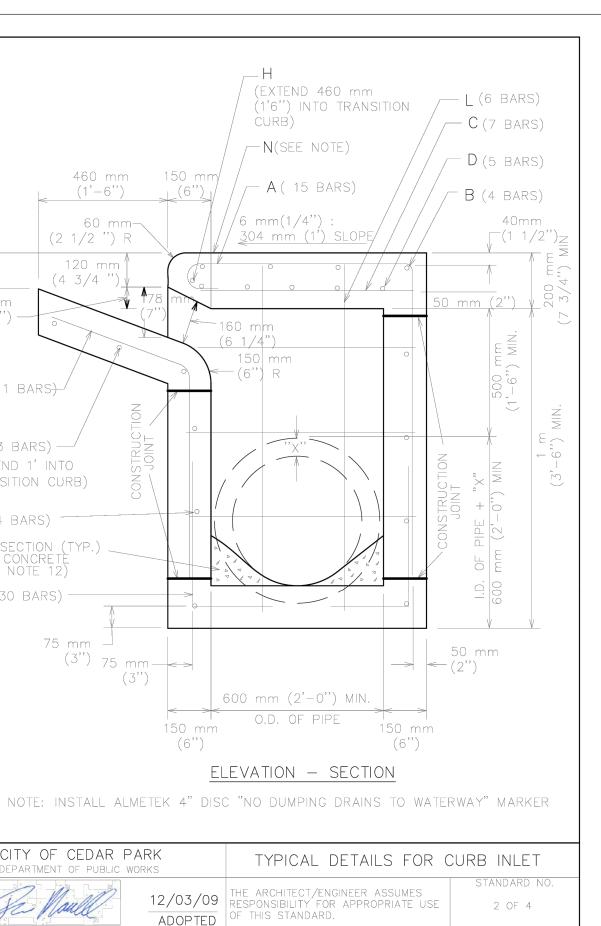
g = 32.16 ft/s²



top mat 265 mm |< >< >| 225 mm (SYMMETRICAL ABOUT C.L.) 460 mm (10 1/2 ") | | (9") $A_7 B_7$ Ÿ<u>,×~ ₽ ₽ ₽ ₽ ₽ ₽</u> R.C.P. STORM AT DIFFERENT d Z TIE-IN ANGLES V 57 mm PERM. CONSTRUCTION JOINT-(2 1/4 ")-AT DIFFERENT TIE-IN ANGLES G (11 BARS)-3 m (9' - 8'')ENGTH OF INLET 150 mm-LENGTH OF INLET F (3 BARS) — (6'') 3 m (10'-0'') STANDARD (EXTEND 1' INTO TRANSITION CURB) J (4 BARS) ⁻ \sim N (see quantity and note) "V" SECTION (TYP.) FILL CONCRETE ____C / -DBOTTOM MAT (SEE NOTE 12) (SYMMETRICAL ABOUT C.L.) K (30 BARS)-– PERMISSIBLE H—⁄ CONSTRUCTION JOINT ?LENGTH OF INLET \rightarrow 150 mm —/ (9'-8'') (6'')NOTE: INSTALL ALMETEK 4" DISC "NO DUMPING DRAINS TO WATERWAY" MARKER CITY OF CEDAR PARK CITY OF CEDAR PARK TYPICAL DETAILS FOR CURB INLET DEPARTMENT OF PUBLIC WORKS DEPARTMENT OF PUBLIC WORKS HE ARCHITECT/ENGINEER ASSUMES 12/03/09 RESPONSIBILITY FOR APPROPRIATE USE 1 OF 4 ADOPTED OF THIS STANDARD.



Cedar Park Logo xBrdr 4/1/2024 10:22 AM SCHUBERT, RYAN K:\AUS_CIVIL\0693 DRAINAGE DETAI IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME



(1'-6'')

60 mm-

(2 1/2 '') R

120 mm '

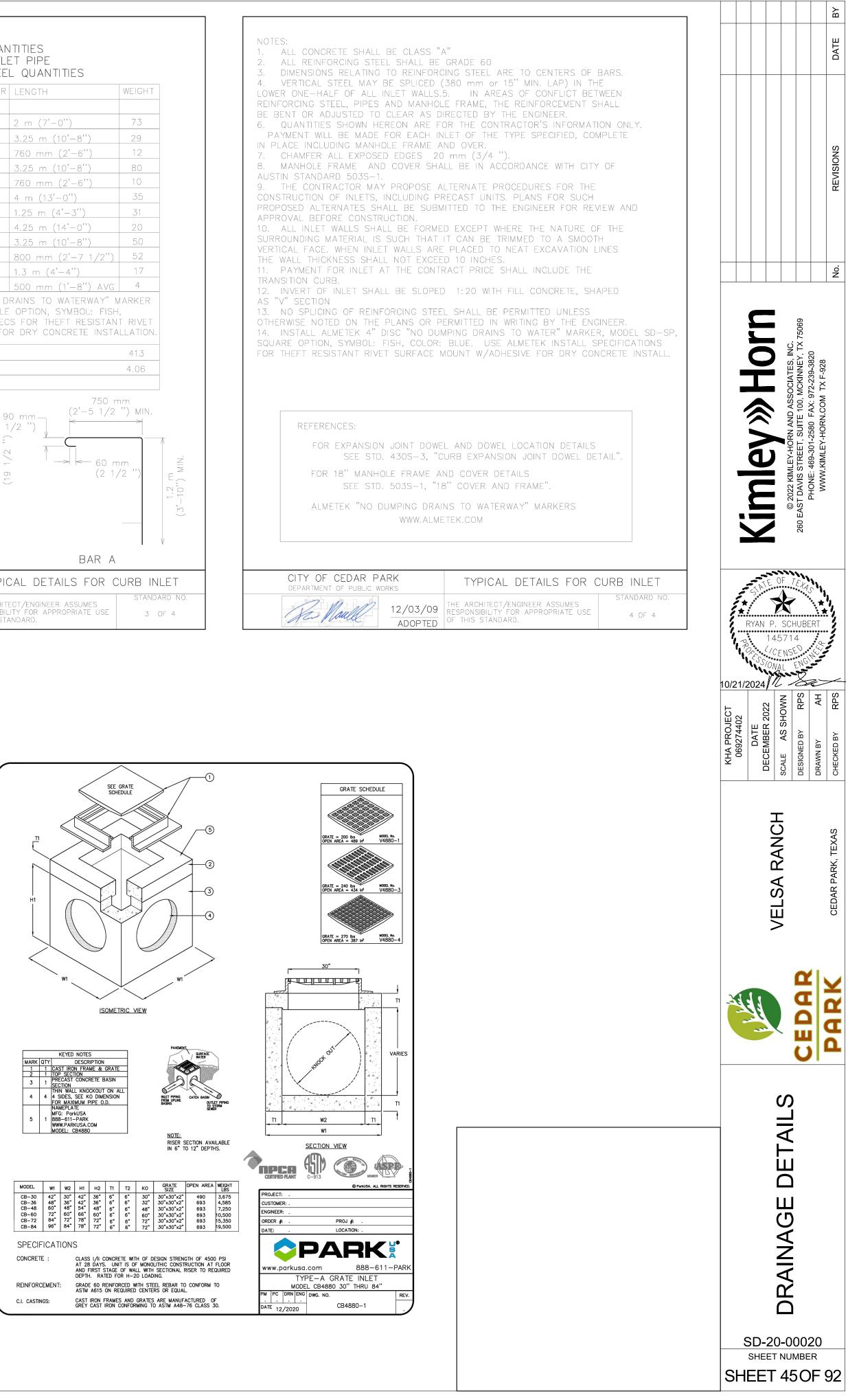
 $(4 \ 3/4')$

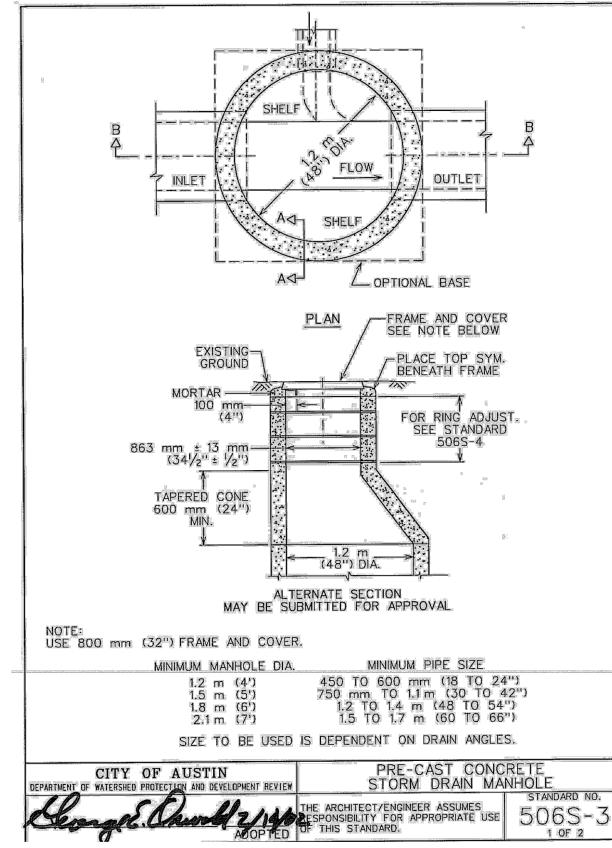
75 mm 🗐

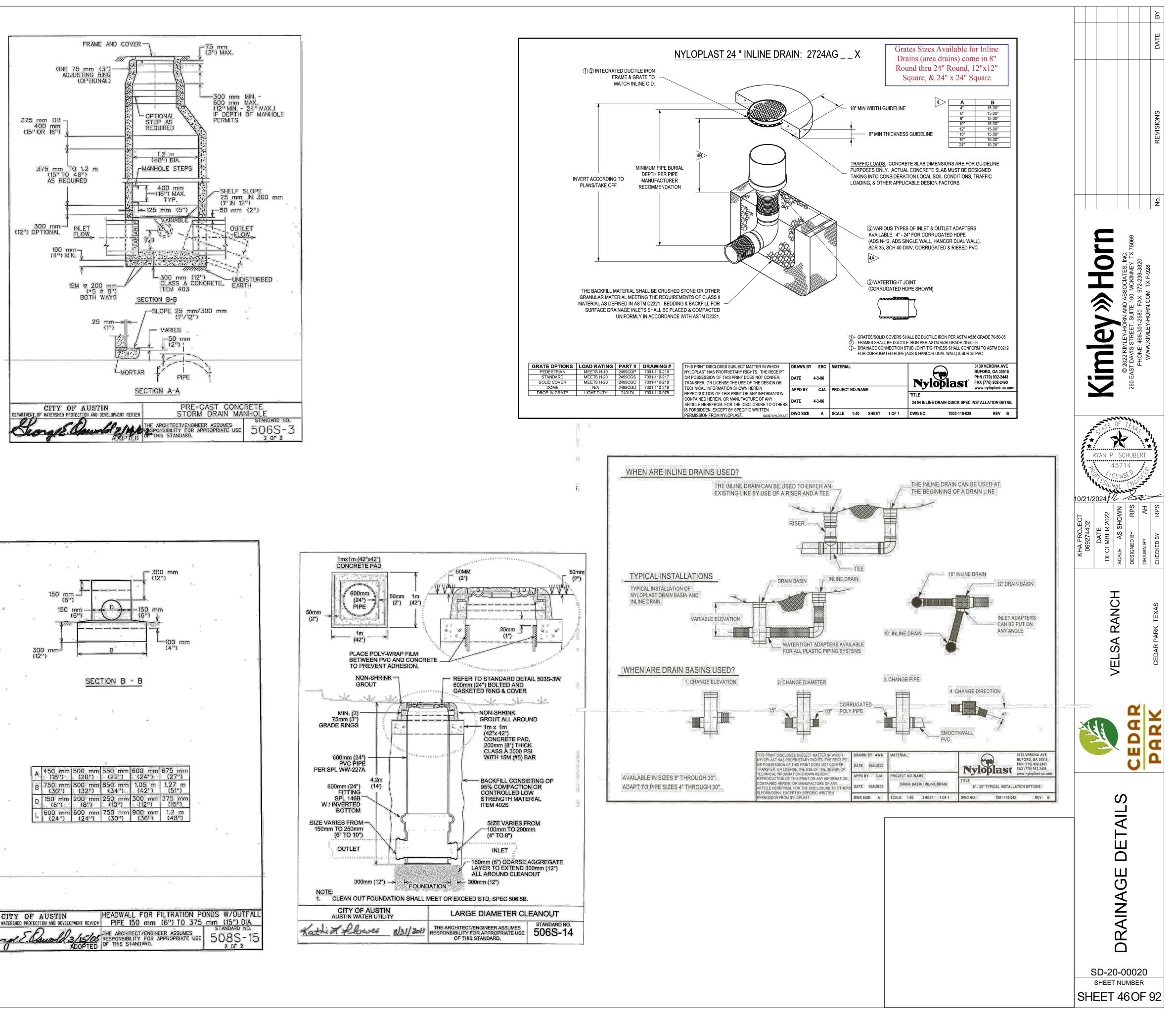
alle

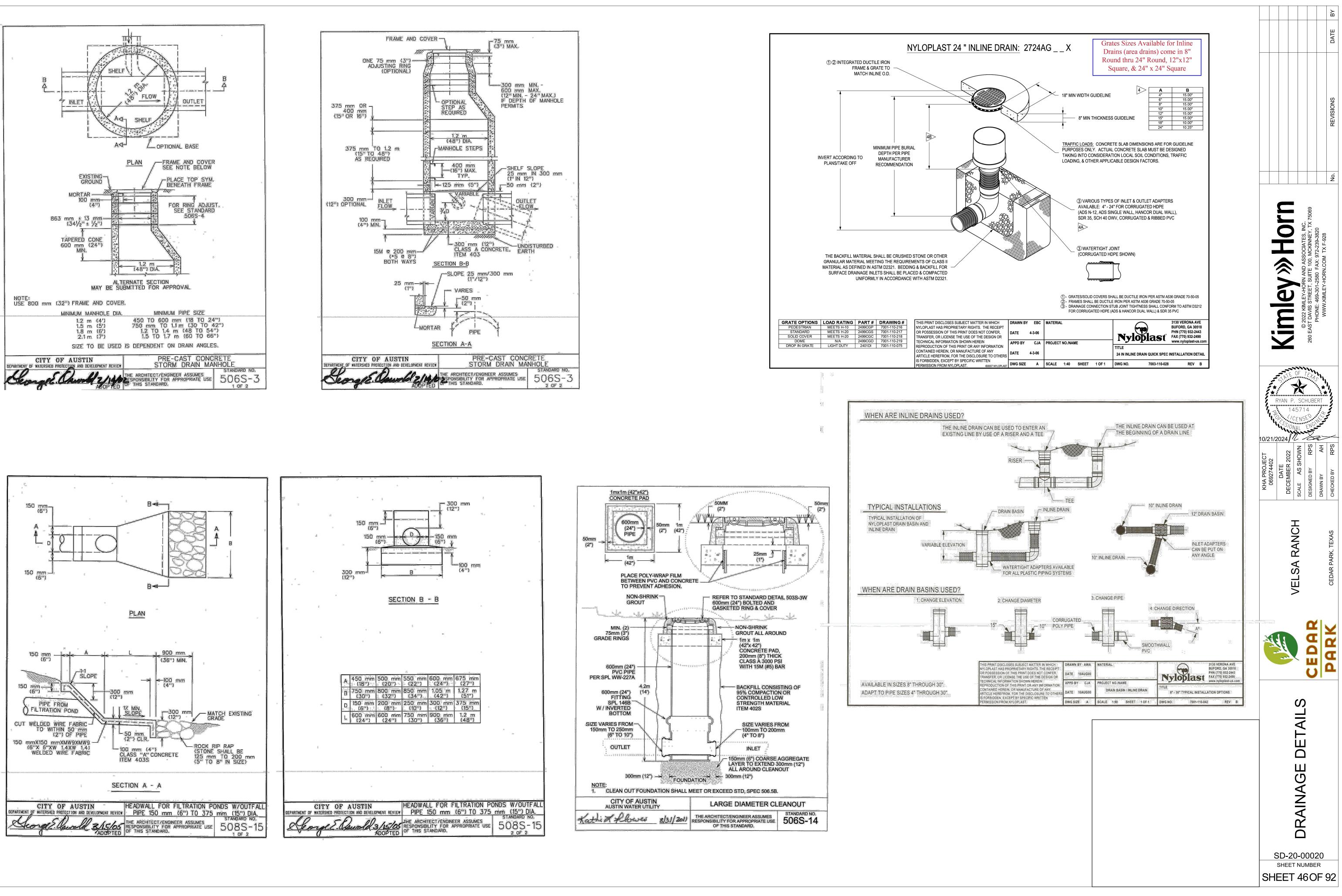
(3'')

				" OUTLE		
	BARS	SIZE	SPACING	NUMBER	LENGTH	WEIGHT
	А	4	230mm (9")*	15	2 m (7'-0'')	73
	В	4	250 mm (10")	4	3.25 m (10'-8'')	29
	С	4	460 mm (18")	7	760 mm (2'-6'')	12
	D	6	150 mm (6'')	5	3.25 m (10'-8'')	80
	E	4	300 mm (12")	6	760 mm (2'-6'')	10
	F	4	250 mm (10")	3	4 m (13'-0'')	35
	G	4	300 mm (12")	11	1.25 m (4'-3'')	31
	Н	6	—	1	4.25 m (14'-0'')	20
	J	4	300 mm (12")	7	3.25 m (10'-8'')	50
	К	4	230 mm (9")*	30	800 mm (2'-7 1/2'')	52
	L	4	300 mm (12")*	6	1.3 m (4'-4'')	17
	М	4		4	500 mm (1'-8'') AVG	4
	Ν	MOE COLOR:	DEL SD-SP, SQU. Blue. USE Alme	are hole tek spec	RAINS TO WATERWAY" M OPTION, SYMBOL: FISH S FOR THEFT RESISTAN R DRY CONCRETE INSTA	, t rivet
	τοτα	L STEEL,	LB.			413
	ТОТА	L CONCRE	TE, C.Y.			4.06
	* EXCE	PT AS SH	OWN ON PLAN			
180 m (7'	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	560 m/ (22")	2, - 5,) MIN.	200 mm 200 mm	750 n (2'-5 1/2 /2 '')	") MIN.
	BA	RG	B	AR K	bar a	I V
		F CEDAR		TYPI	CAL DETAILS FOR C	
	Je II	aull	12/03/09	THE ARCHITI RESPONSIBIL OF THIS STA	ECT/ENGINEER ASSUMES ITY FOR APPROPRIATE USE ANDARD.	STANDARD NO. 3 OF 4



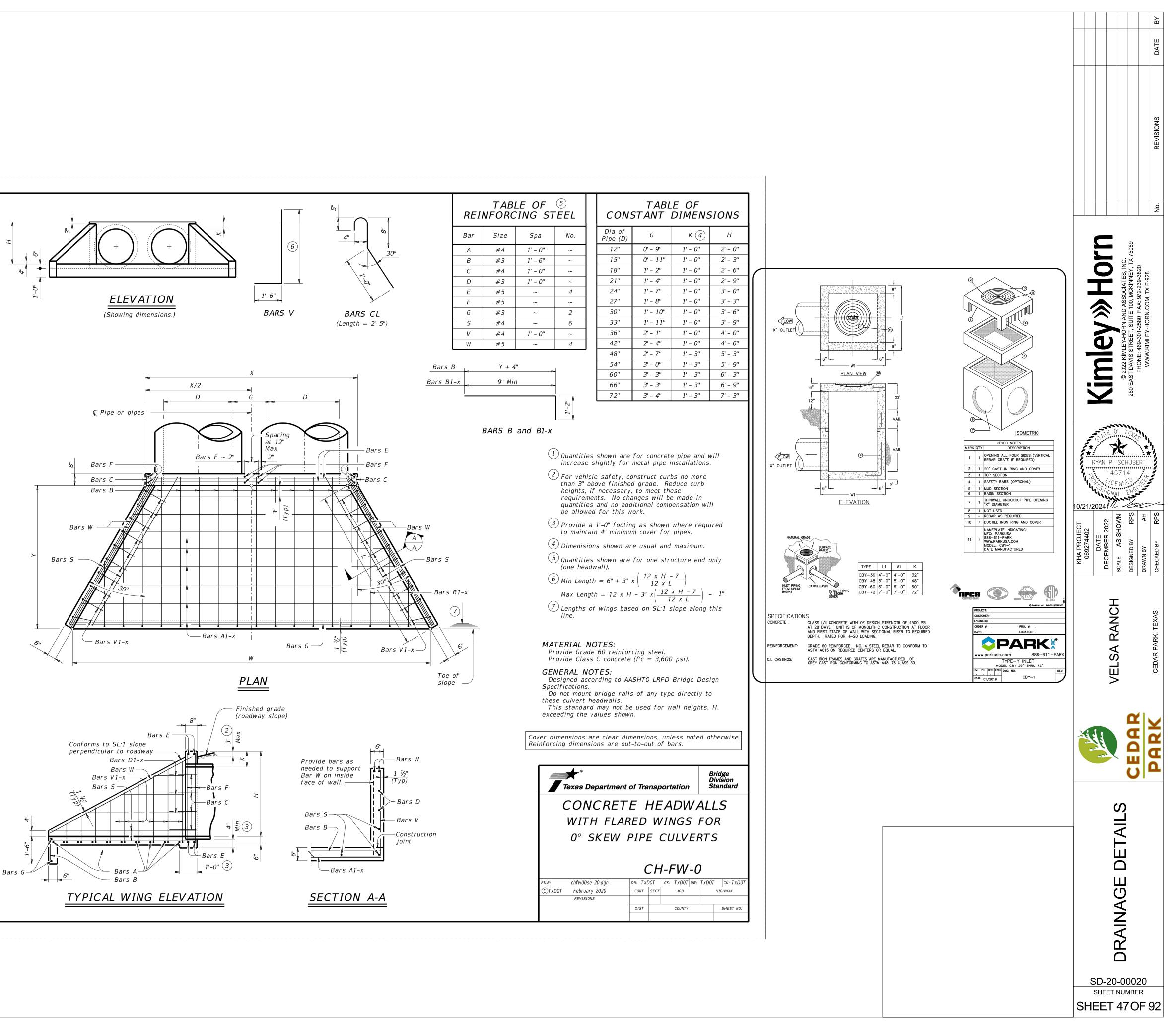


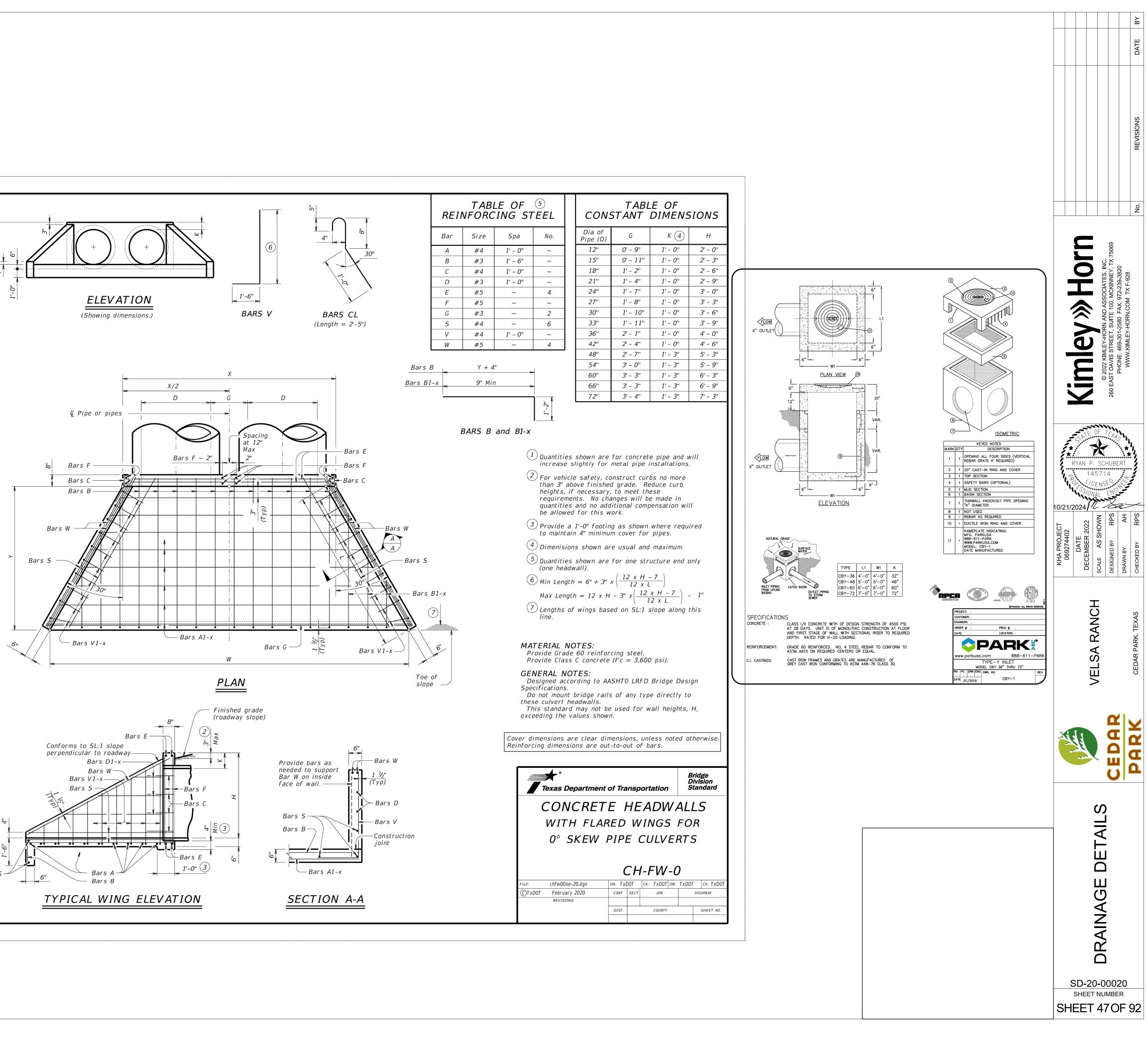


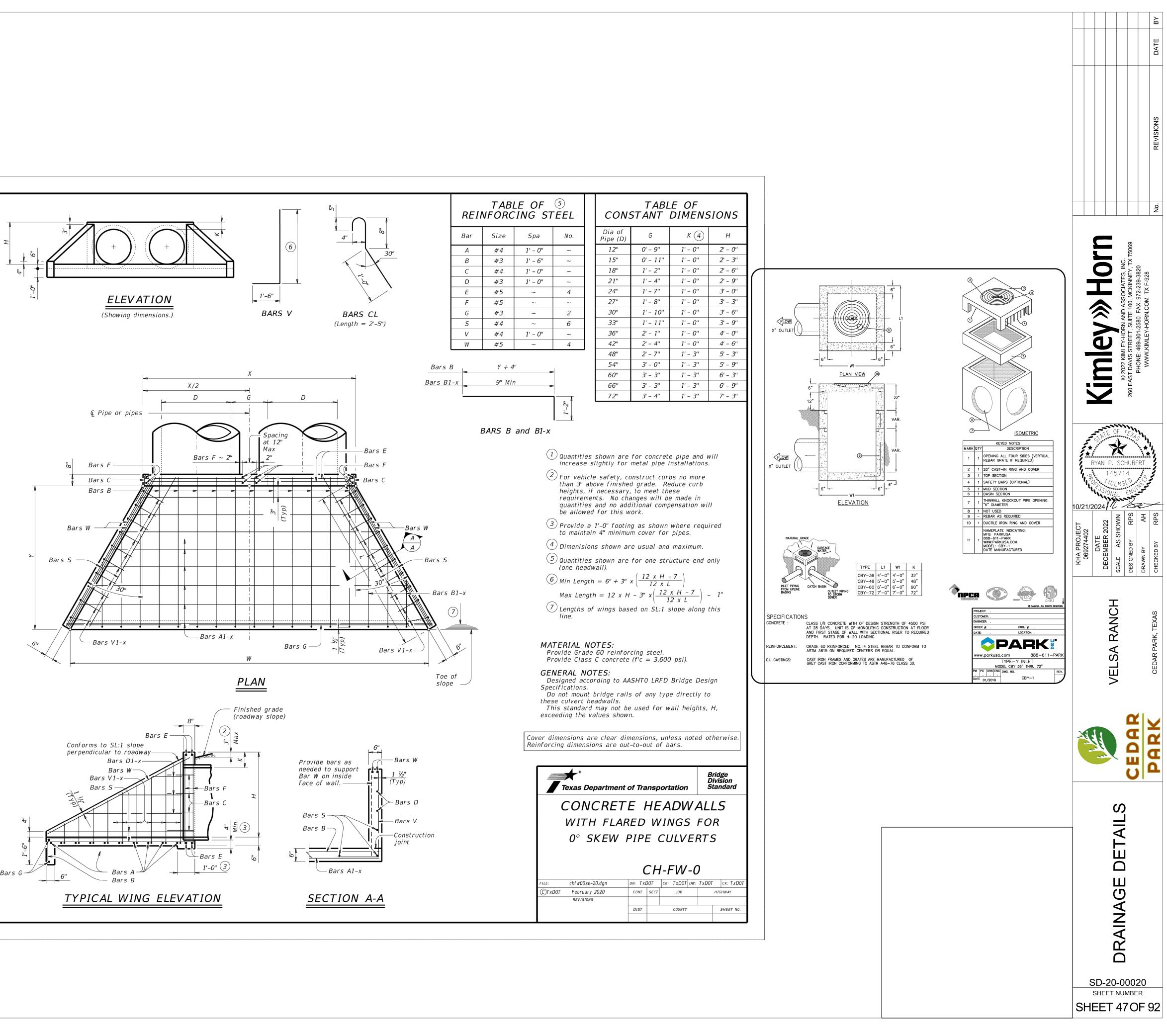


Cedar Park Logo: xBrdr 4/1/2024 10:22 AM SCHUBERT, RYAN K:AUS_CML06927 K:AUS_CML06927 DRAINAGE DETAIL: IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

۵)	Pipe		Value	es for One	e Pipe			Values to for Each		
Slope	Dia of I (D)	W	X	Ŷ	L	Reinf (Lbs)	Conc (CY)	X and W	Reinf (Lbs)	
	12"	4' - 7 ½"	2' - 6"	2' - 10"	3' - 3 ¼"	88	0.6	1' - 9"	20	┢
	15"	5' - 5 ³ / ₄ "	2' - 9 ½"	3' - 4''	3' - 10 ¹ / ₄ "	103	0.7	2' - 2"	24	t
	18''	6' - 4 ¼''	3' - 1"	3' - 10"	4' - 5"	124	0.9	2' - 8''	32	t
	21"	7' - 2 ³ ⁄4"	3' - 4 ½"	4' - 4''	5' - 0"	143	1.1	3' - 1"	43	t
	24"	8' - 2 ½''	3' - 9 ½"	4' - 10''	5' - 7"	164	1.3	3' - 7"	50	t
	27"	9' - 1"	4' - 1"	5' - 4''	6' - 2''	179	1.5	3' - 11"	56	T
	30"	9' - 11 ½"	4' - 4 ½''	5' - 10"	6' - 8 ¾''	203	1.7	4' - 4''	65	Ī
2:1	33"	10' - 10''	4' - 8''	6' - 4''	7' - 3 ¾"	224	2.0	4' - 8''	71	
	36"	11' - 8 ¼"	4' - 11 ½''	6' - 10"	7' - 10 ¾"	249	2.2	5' - 1"	81	
	42"	13' - 5 ¼"	5' - 6 ½"	7' - 10"	9' - 0 ½"	298	2.8	5' - 10"	97	
	48''	15' - 9"	6' - 1 ½"	9' - 4"	10' - 9 ¼"	360	3.8	6' - 7"	117	
	54"	17' – 5 ¾"	6' - 8 ½"	10' - 4"	11' - 11 ¼"	427	4.5	7' - 6"	151	
	60"	19' - 2 <u>3/</u> "	7' - 3 ½"	11' - 4"	13' - 1"	481	5.3	8' - 3"	174	
	66"	20' - 11 ½"	7' - 10 ½"	12' - 4"	14' - 3"	544	6.2	8' - 9"	194	
	72"	22' - 8 ½"	8' - 5 ½"	13' - 4"	$15' - 4 \frac{3}{4}''$	601	7.1	9' - 4"	213	+
	12"	6' - 3''	2' - 6"	4' - 3''	4' - 11"	118	0.8	1' - 9"	22	+
	15"	7' - 5"	$2' - 9 \frac{1}{2}''$	5' - 0"	$5' - 9 \frac{1}{4}''$	137	1.1	2' - 2"	28	╞
	18"	8' - 6 ³ ⁄ ₄ " 9' - 8 ³ ⁄ ₄ "	3' - 1''	5' - 9" 6' - 6"	6' - 7 ³ / ₄ "	170	1.3	2' - 8"	37	+
	21" 24"	9 - 8 % 11' - 0''	3' - 4 ½" 3' - 9 ½"	0 - 0 7' - 3''	7' - 6" 8' - 4 ½"	195 227	1.6 2.0	3' - 1" 3' - 7"	48 58	╞
	24	11' - 0'' 12' - 2''	3 - 9 ₇₂ 4' - 1"	<i>7 – 3</i> <i>8' – 0''</i>	9' - 2 ³ / ₄ "	251	2.0	3 - 7	67	╞
	30"	12 - 2 13' - 4"	$4' - 4 \frac{1}{2}''$	8' - 9''	3^{-2} $\frac{7}{4}$ 10' - 1 $\frac{1}{4}$ "	293	2.7	<u> </u>	77	╞
3:1	33"	$13' - 5\frac{3}{4}''$	4' - 8''	9' - 6"	$10' - 11 \frac{3}{4''}$	318	3.1	4' - 8''	84	╀
ŋ	36"	$15' - 7\frac{3}{4}''$	$4' - 11 \frac{1}{2''}$	10' - 3"	11' - 10"	351	3.5	5' - 1"	96	╀
	42"	17' - 11 ½"	5' - 6 ½"	11' - 9"	13' - 6 ³ ⁄4"	432	4.5	5' - 10"	119	t
	48"	21' - 1 ¾"	6' - 1 ½"	14' - 0''	16' - 2"	537	6.1	6' - 7"	146	t
	54"	23' - 5 ½"	6' - 8 ½"	15' - 6"	17' - 10 <u>34</u> "	630	7.3	7' - 6"	186	t
	60"	25' - 9 ¼"	7' - 3 ½"	17' - 0"	19' - 7 ½"	719	8.7	8' - 3''	219	t
	66"	28' - 1"	7' - 10 ½"	18' - 6"	21' - 4 ¼"	811	10.1	8' - 9"	242	
	72"	30' - 4 ¾"	8' - 5 ½"	20' - 0"	23' - 1 ¼''	924	11.7	9' - 4"	272	
	12"	7' - 10 ¾"	2' - 6"	5' - 8''	6' - 6 ½"	148	1.1	1' - 9"	24	
	15"	9' - 4''	2' - 9 ½"	6' - 8''	7' - 8 ½"	181	1.5	2' - 2"	32	
	18"	10' - 9 ½"	3' - 1"	7' - 8"	8' - 10 ¼''	221	1.9	2' - 8''	42	╞
	21"	$12' - 2\frac{3}{4}''$	$3' - 4 \frac{1}{2}''$	8' - 8''	10' - 0"	260	2.3	3' - 1"	57	╞
	24"	$13' - 9\frac{1}{2}''$	$3' - 9 \frac{1}{2}''$	9' - 8''	11' - 2"	301	2.8	3' - 7"	67	╞
	27'' 30''	15' - 3'' $16' - 8 \frac{1}{4}''$	4' - 1" 4' - 4 ½"	10' – 8'' 11' – 8''	12' - 3 ³ ⁄4" 13' - 5 ³ ⁄4"	334 385	3.3 3.8	3' - 11" 4' - 4"	77 89	╞
4:1	33"	$10 - 8 \frac{7}{4}$ $18' - 1 \frac{3}{4}''$	4 - 4 72 4' - 8''	11 - 8 12' - 8''	$13 - 5 \frac{7}{4}$ $14' - 7 \frac{1}{2}''$	425	4.5	4 - 4 4' - 8''	101	╞
4	36"	10 - 1 74 19' - 7"	$4' - 11 \frac{1}{2}''$	12 - 8"	$14 = 7 \frac{7}{2}$ 15' - 9 $\frac{1}{4}$ "	472	5.1	<i>4 = 0</i> <i>5' - 1"</i>	115	╞
	42"	$22' - 5 \frac{3}{4}''$	5' - 6 ½"	15' - 8"	18' - 1"	583	6.5	5' - 10"	141	╞
	48"	$26' - 6 \frac{1}{4}''$	6' - 1 ½"	18' - 8"	$21' - 6 \frac{3}{4}''$	730	8.9	6' - 7"	175	\dagger
	54''	29' - 5"	6' - 8 ½"	20' - 8"	23' - 10 1/4"	875	10.7	7' - 6"	226	t
	60"	32' - 3 ¾"	7' - 3 ½"	22' - 8"	26' - 2"	996	12.7	8' - 3''	264	Ţ
	66"	35' - 2 ½"	7' - 10 ½"	24' - 8"	28' - 5 ¾"	1,140	14.9	8' - 9"	300	Ī
	72"	38' - 1 ¼''	8' - 5 ½"	26' - 8''	30' - 9 ½"	1,297	17.3	9' - 4''	334	Í
	12"	11' - 2"	2' - 6"	8' - 6"	9' - 9 ³ / ₄ "	224	1.9	1' - 9"	28	ſ
	15"	13' - 2 ¼"	2' - 9 ½"	10' - 0''	11' - 6 ½"	268	2.5	2' - 2"	37	
	18"	$15' - 2\frac{1}{2}''$	3' - 1"	11' - 6"	$13' - 3\frac{1}{4}''$	330	3.2	2' - 8"	50	
	21"	$17' - 2\frac{3}{4}''$	$3' - 4 \frac{1}{2}''$	13' - 0"	$15' - 0 \frac{1}{4}''$	387	3.9	3' - 1"	69	╞
	24"	$19' - 4\frac{1}{2}''$	3' - 9 ½"	14' - 6"	16' - 9" 18' 5 3/"	453	4.8	3' - 7"	80	╀
6:1	27'' 20''	$21' - 4 \frac{3}{4}''$	4' - 1''	16' - 0" 17' 6"	$18' - 5 \frac{3}{4}''$	512	5.7	3' - 11"	96	╀
6.	30" 33"	23' - 5 ¼" 25' - 5 ½"	4' - 4 ½" 4' - 8"	17' – 6'' 19' – 0''	$20' - 2 \frac{1}{2}''$ $21' - 11 \frac{1}{4}''$	593 675	6.7 7.8	4' - 4'' 4' - 8''	110 127	╀
	35"	$25' - 5'_{2}''$ $27' - 5'_{4}''$	$\frac{4^{2}-8^{2}}{4^{2}-11}$		21' - 11 '⁄4'' 23' - 8''	735	7.8 9.0	4' - 8'' 5' - 1''	127	╀
	30 42''	$27 - 5\frac{7}{4}$ $31' - 6\frac{1}{4}''$	$4 - 11 \frac{1}{2}$ 5' - 6 $\frac{1}{2}$ "	20 - 6"	23 - 8 27' - 1 $\frac{1}{2}$ "	922	9.0	5 - 1	179	╀
	42	$37' - 3\frac{1}{2}''$	$5' - 0''_{2}$ $6' - 1''_{2}$	23 - 0" 28' - 0"	<i>27 - 1 72</i> <i>32' - 4''</i>	1,191	15.9	6' - 7"	231	╀
	54"	$41' - 4\frac{1}{4}''$	$6' - 8 \frac{1}{2}''$	31' - 0"	35' - 9 ½"	1,424	19.2	7' - 6"	300	╀
	60"	$45' - 4 \frac{3}{4}''$	$7' - 3\frac{1}{2}''$	34' - 0"	39' - 3"	1,631	22.9	8' - 3''	353	╀

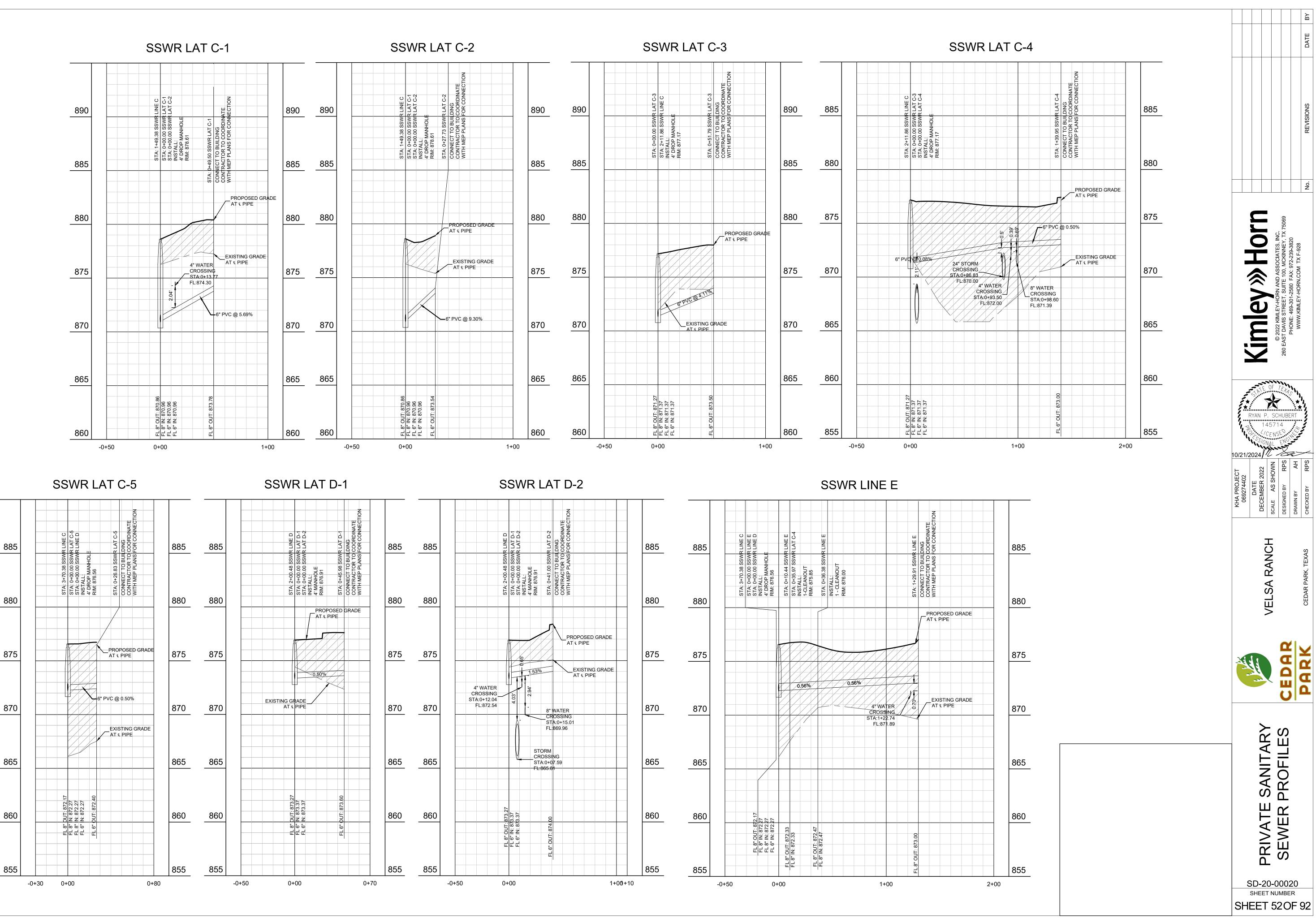






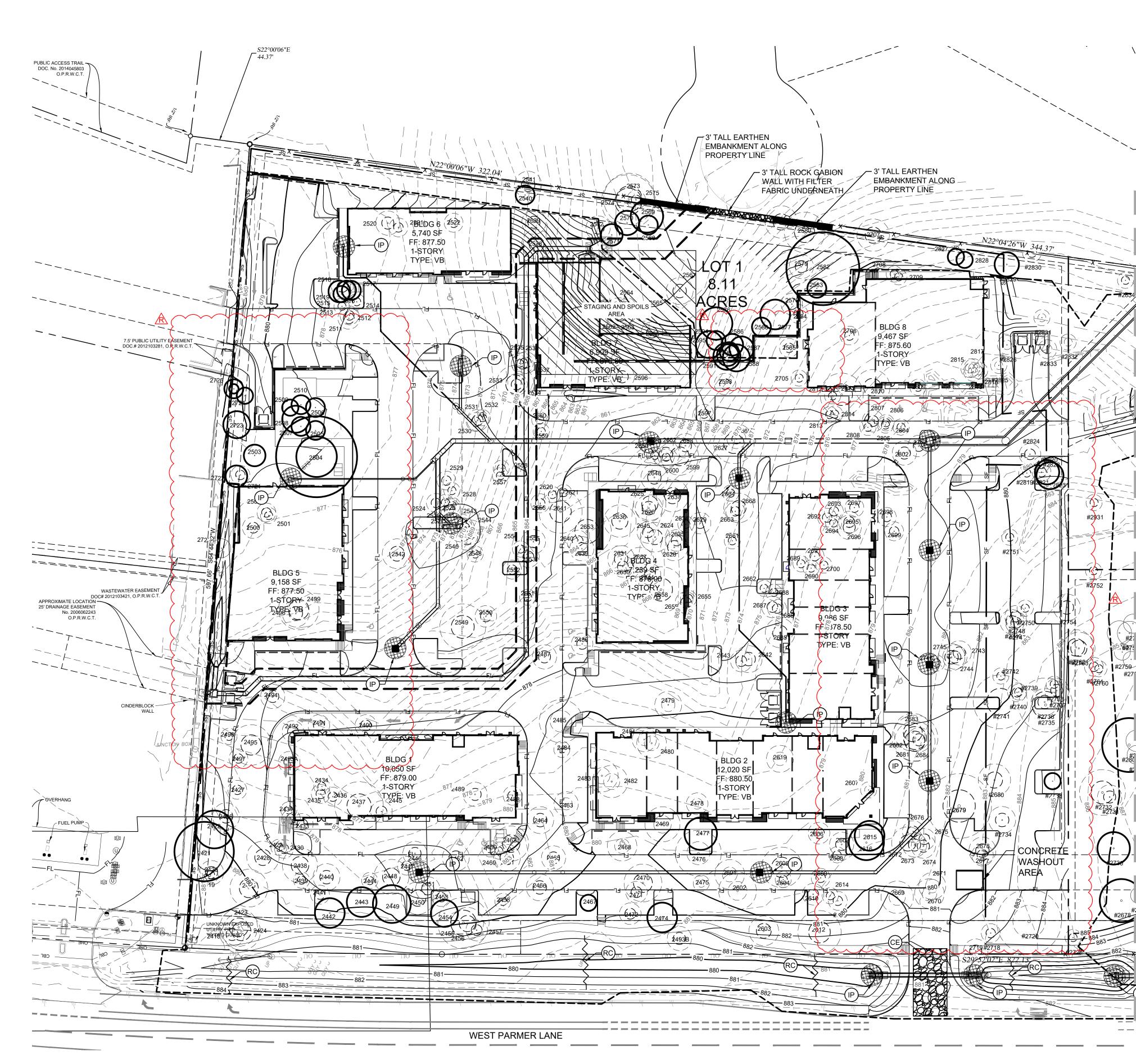
Cedar Park Logo: xBrdr 4/1/2024 10:22 AM SCHUBERT, RYAN K:\AUS_CIVIL\06927 DRAINAGE DETAIL\$

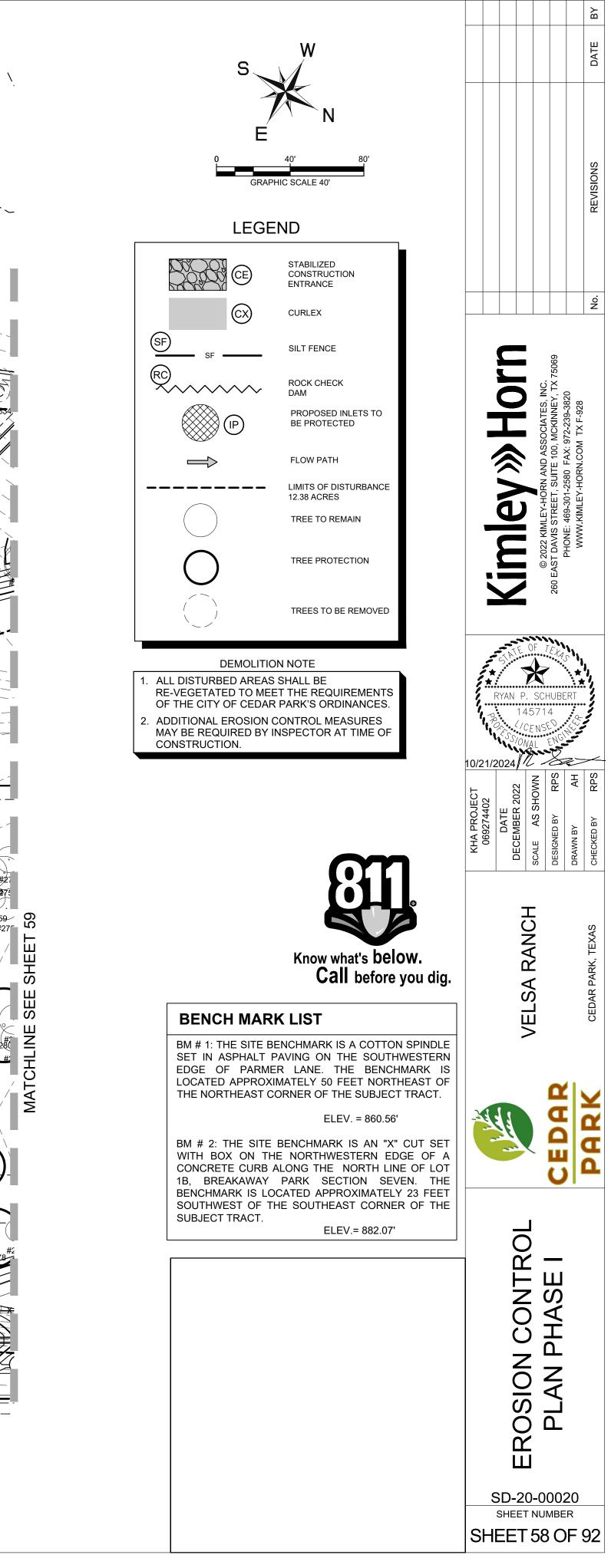
IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME



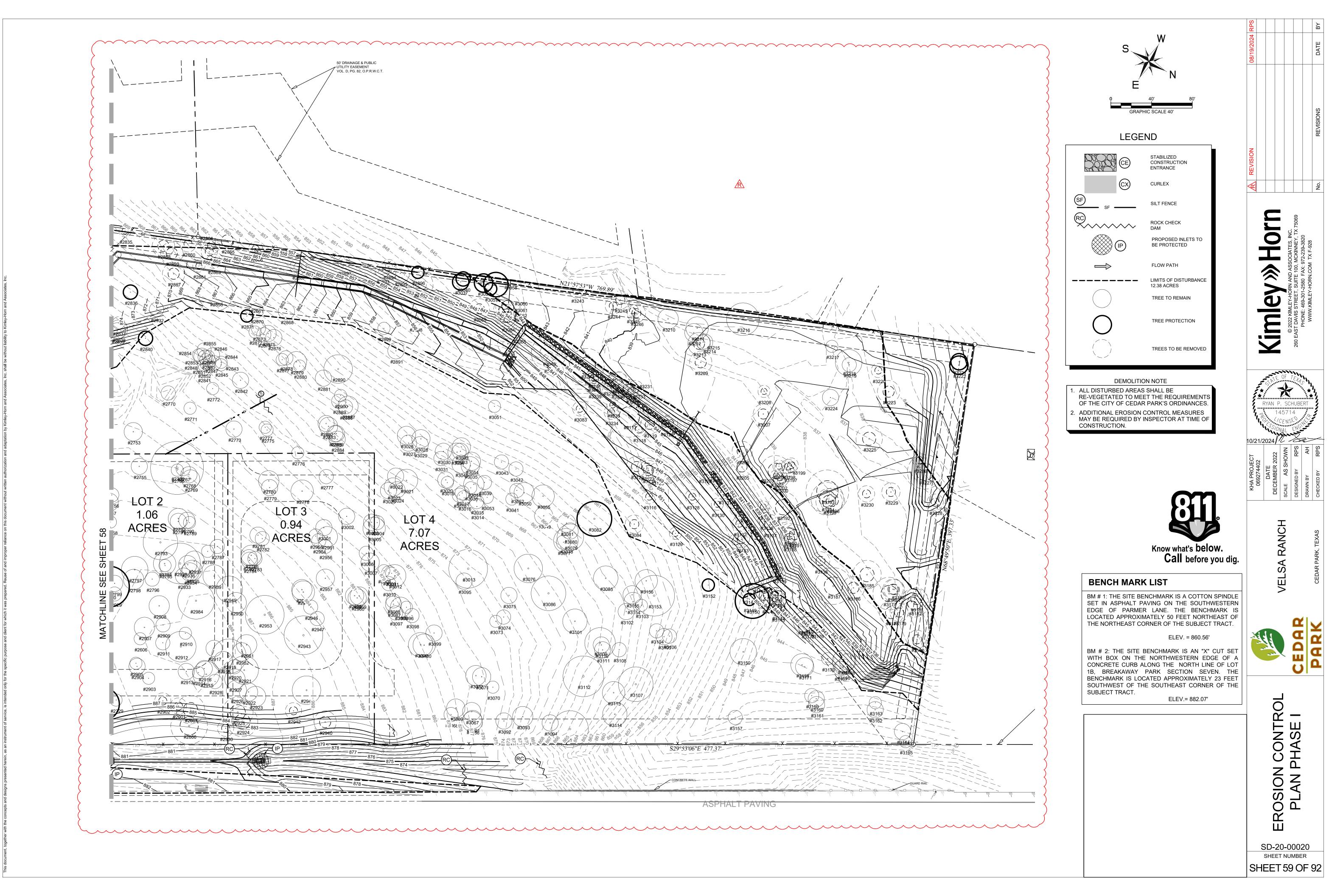
Cedar Park Logo : Cedar Park Logo : oUtit : xBrdr : xBrdr-Public B/16/2024 17:45 AM SCHUBERT, RYAN 10/21/2024 7:06 PM K:ALG CIVIL06927402-CEDAR PARK-WATER AND SANITARY SEWER PROFIL IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

IMAGES Cedar Park Logo : XREFS xStim : xSuv : xBidr : xSite : xEsmts : xtrees LaST SAVED 8/19/2024 10:29 AM PLOTTED BY SCHUBERT, RYAN 10/2/12/24 7:08 PM DWG PATH K.AUS_CUNIN085774402-CEDAR PARK - PARMER 17 ACREICAD/PLANSHEETS DWG NAME EROSION CONTROL PLAN.DWG , [58 EROSION CONTROL PLAN PHASE I]

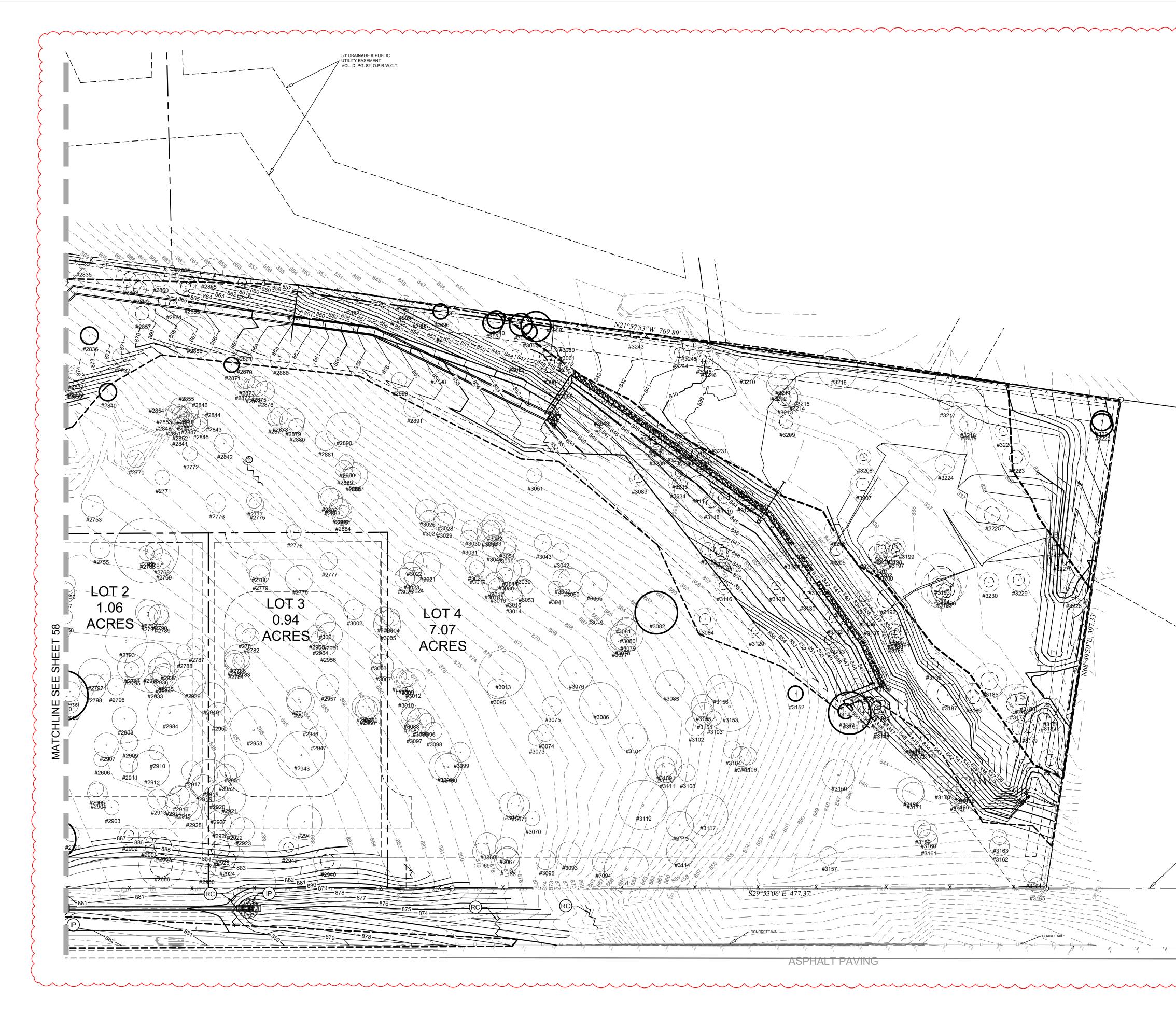


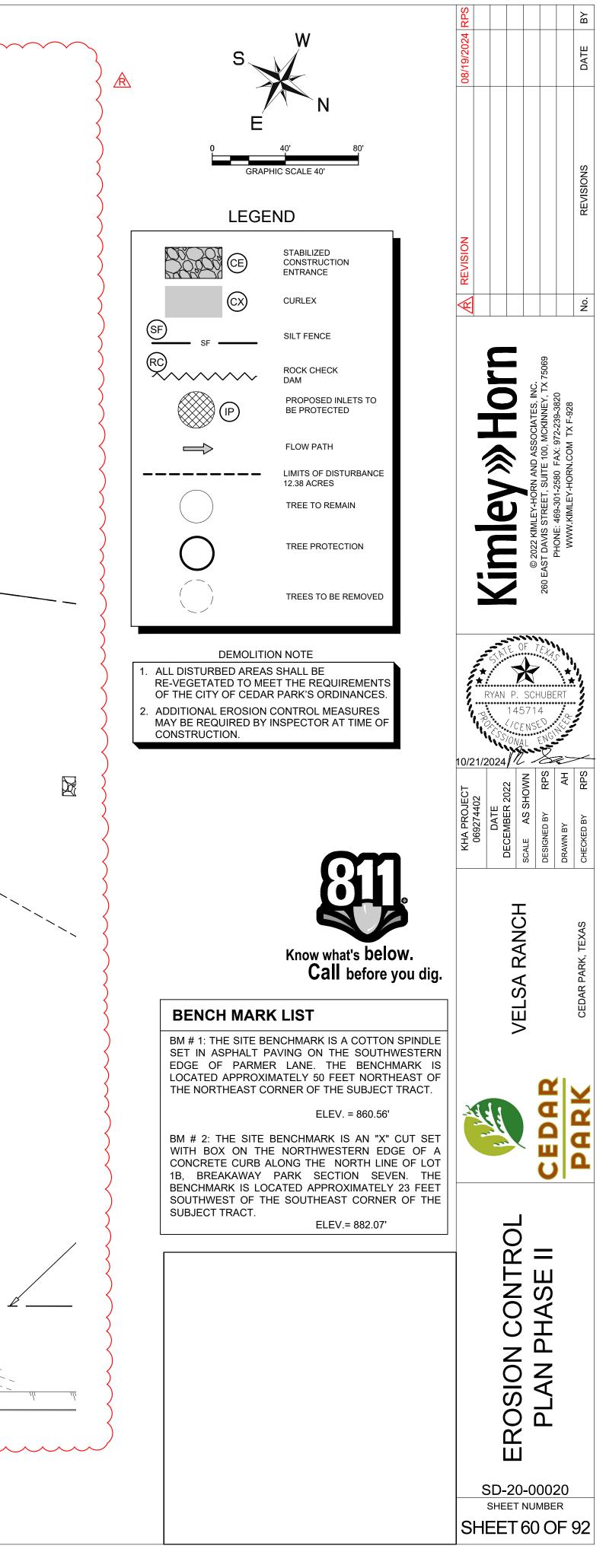


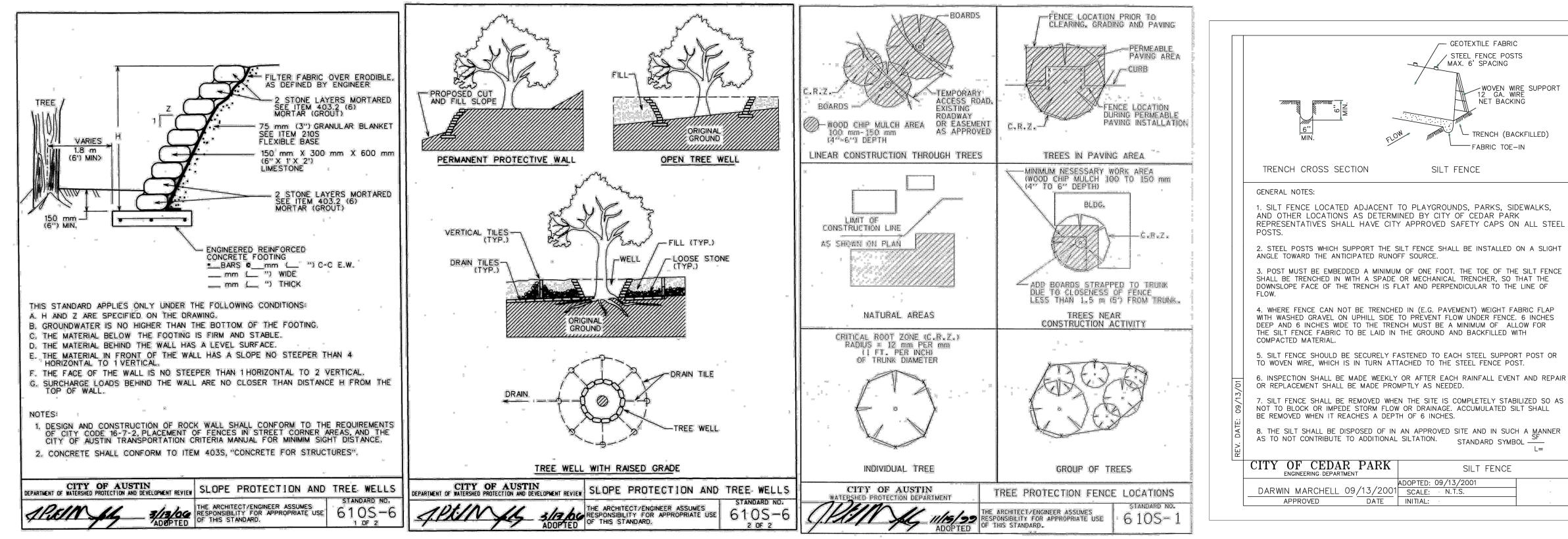


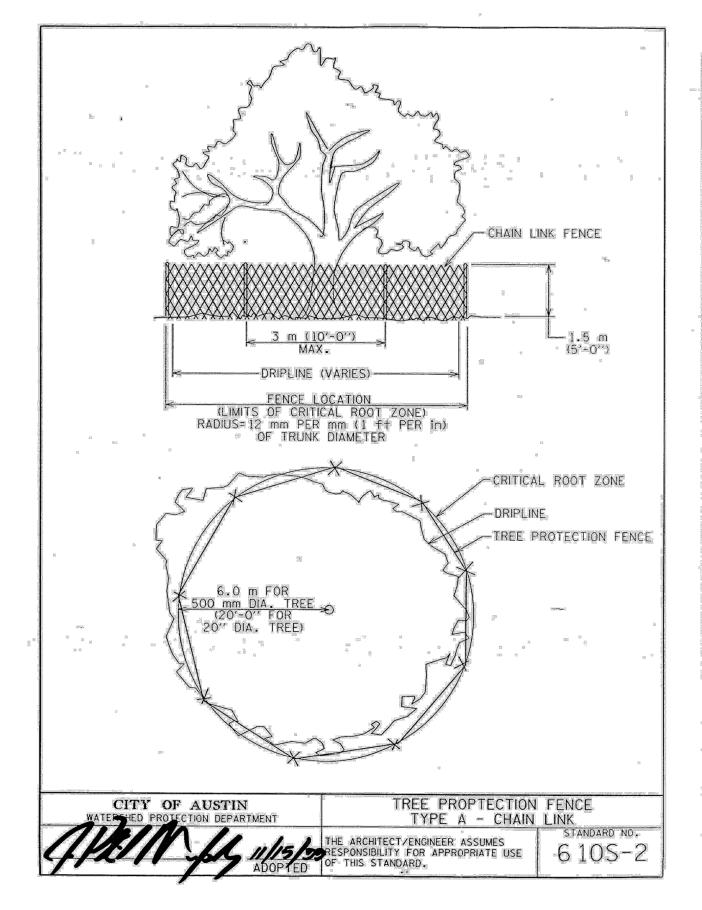


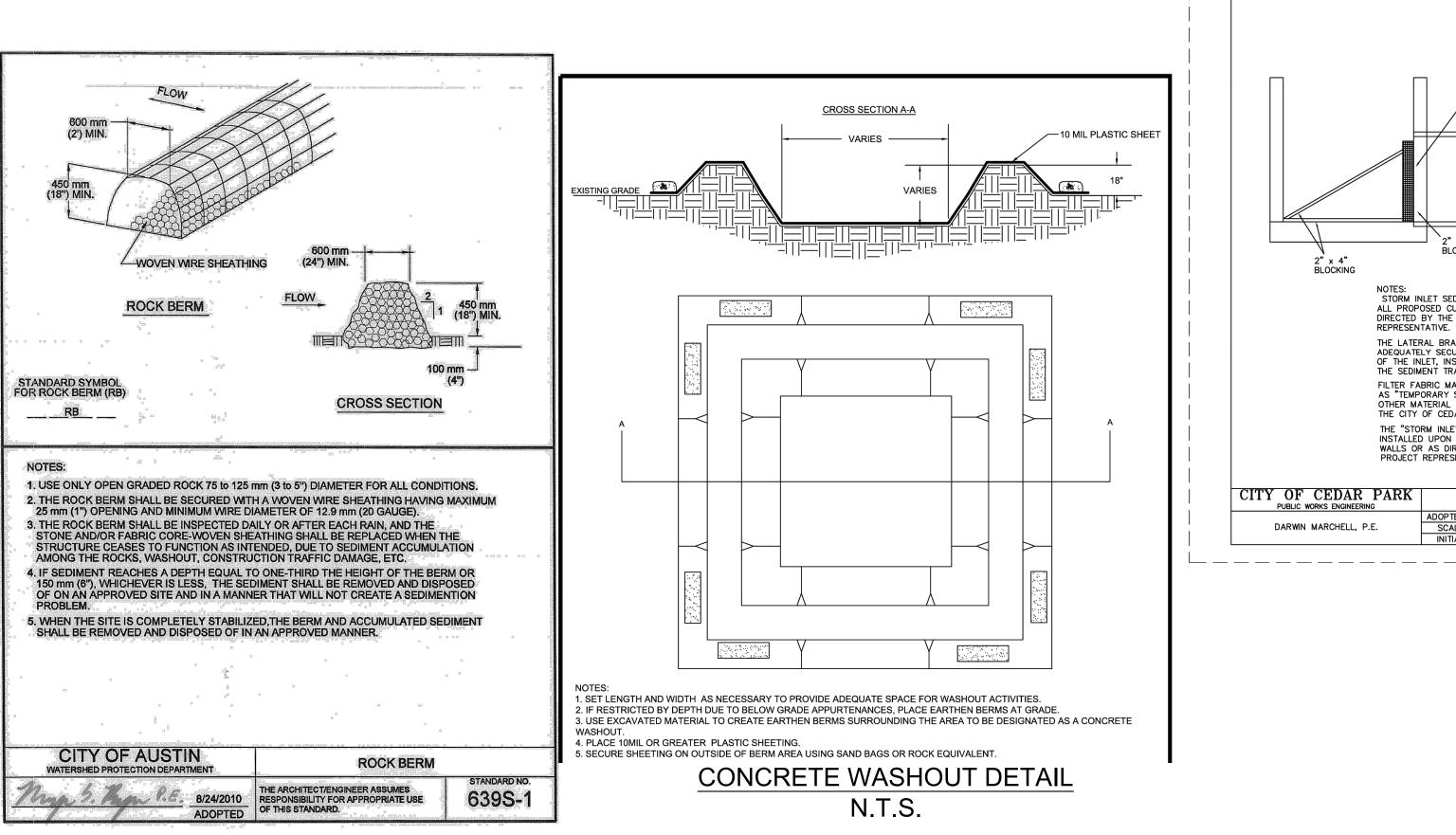




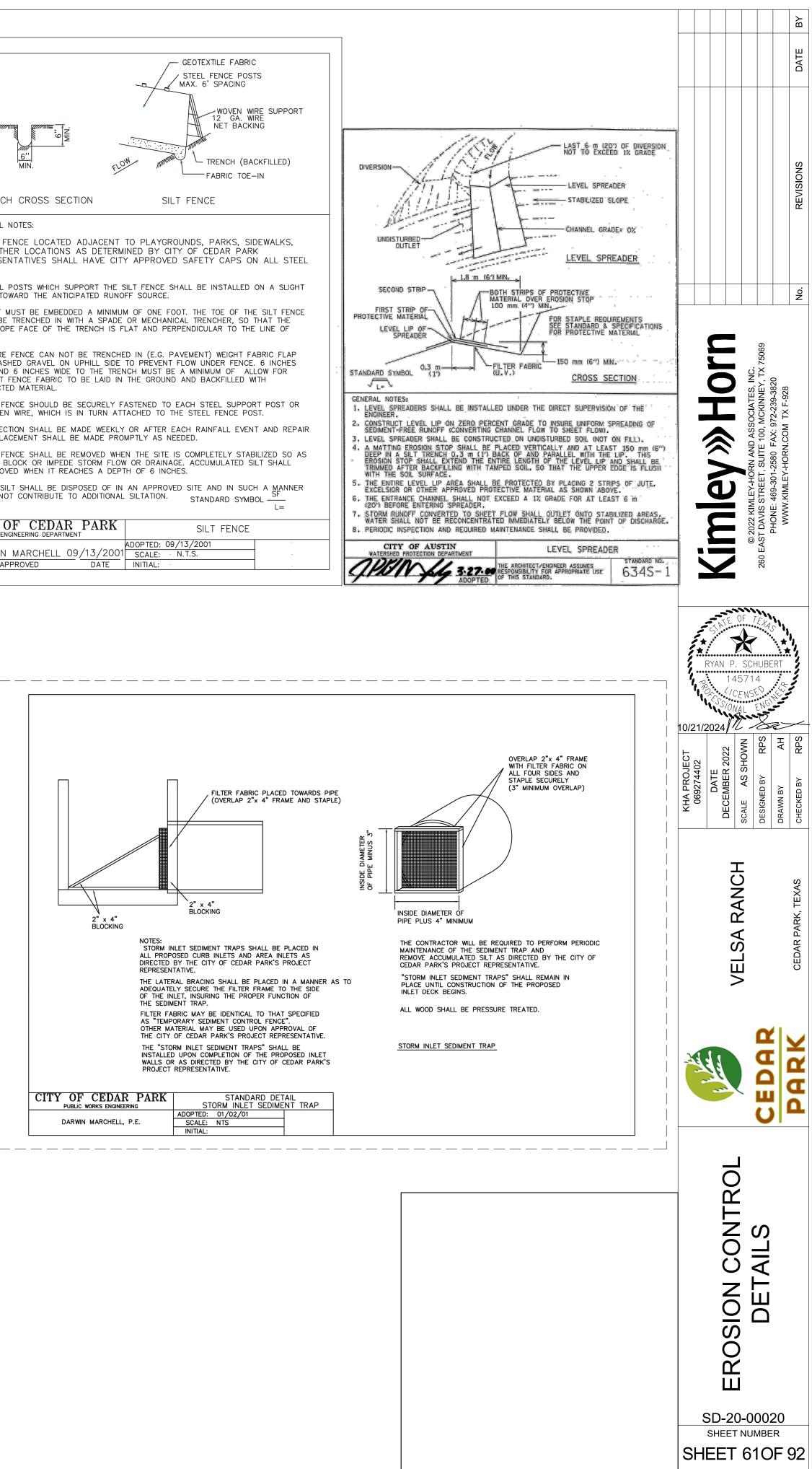


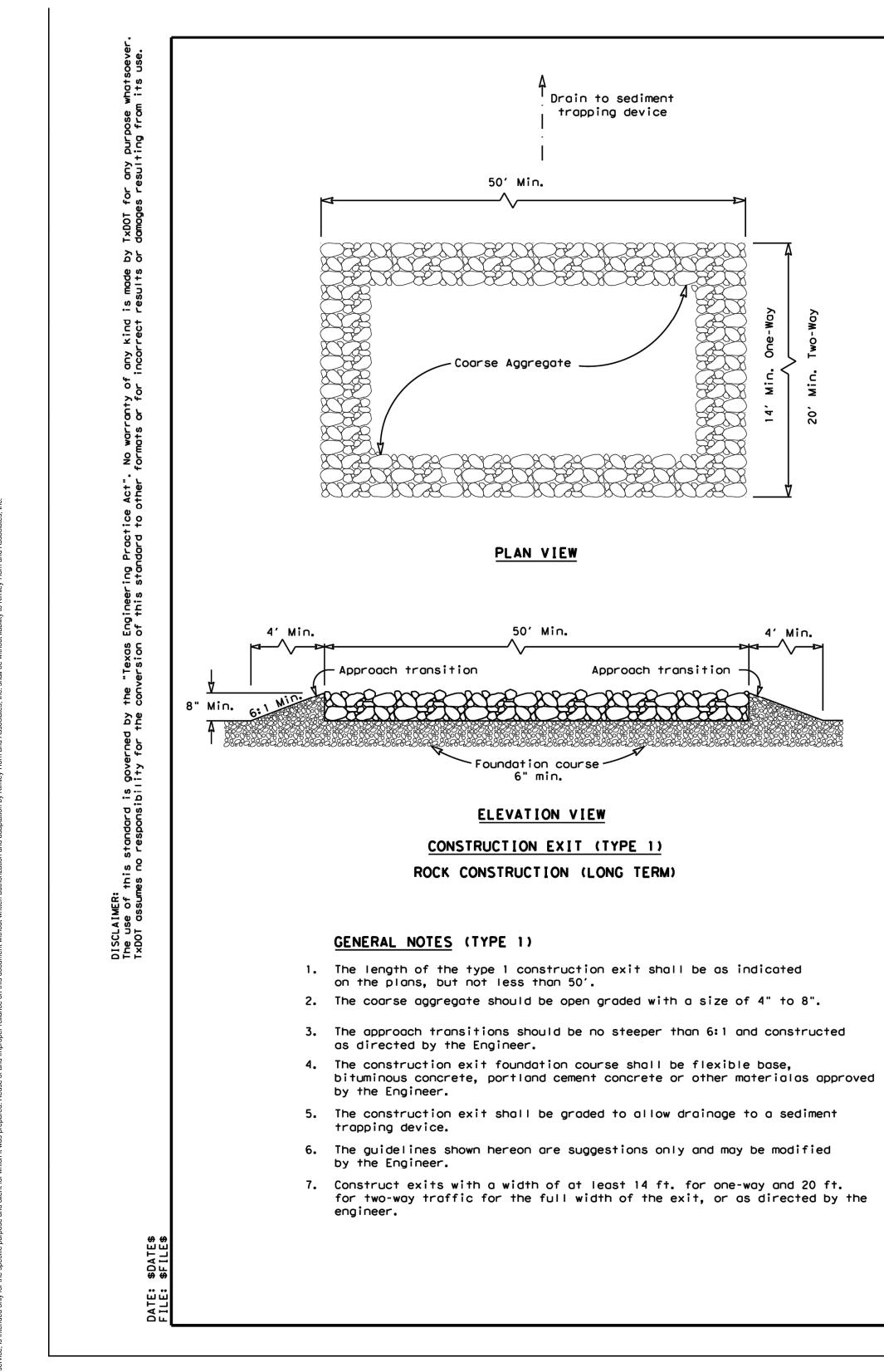




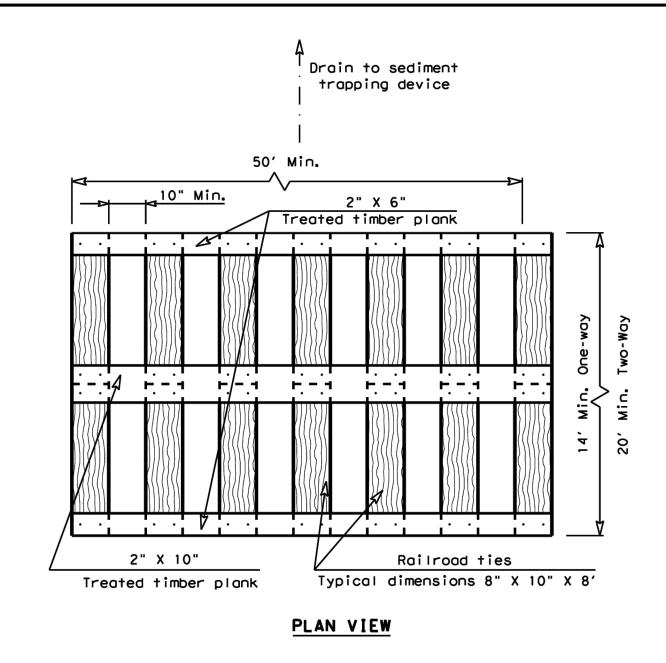


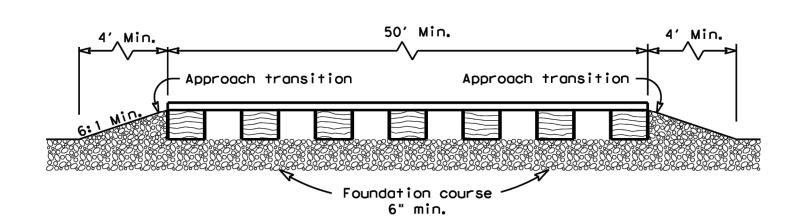
MAGES Cedar Park Logo : XREFS xBrdr LAST SAVED 4/1/2024 10:29 AM LOTTED Y SCHUBERT, RYAN 10/21/2024 7:08 PM DWG PATH Y SCHUBERT, RYAN 10/21/2024 7:08 PM DWG PATH K-ALLS CUNLIO069274402-GEDAR PARK - PARMER 17 ACREICAD/PLAN DWG PATH EROSION CONTROL DETAILS.DWG , [61 EROSION CONTROL DETAIL





xBrdr 4/1/2024 10:29 AM SCHUBERT, RYAN K:\AUS_CIVIL\0692 XREFS XREFS LAST SAVED PLOTTED BY DWG PATH



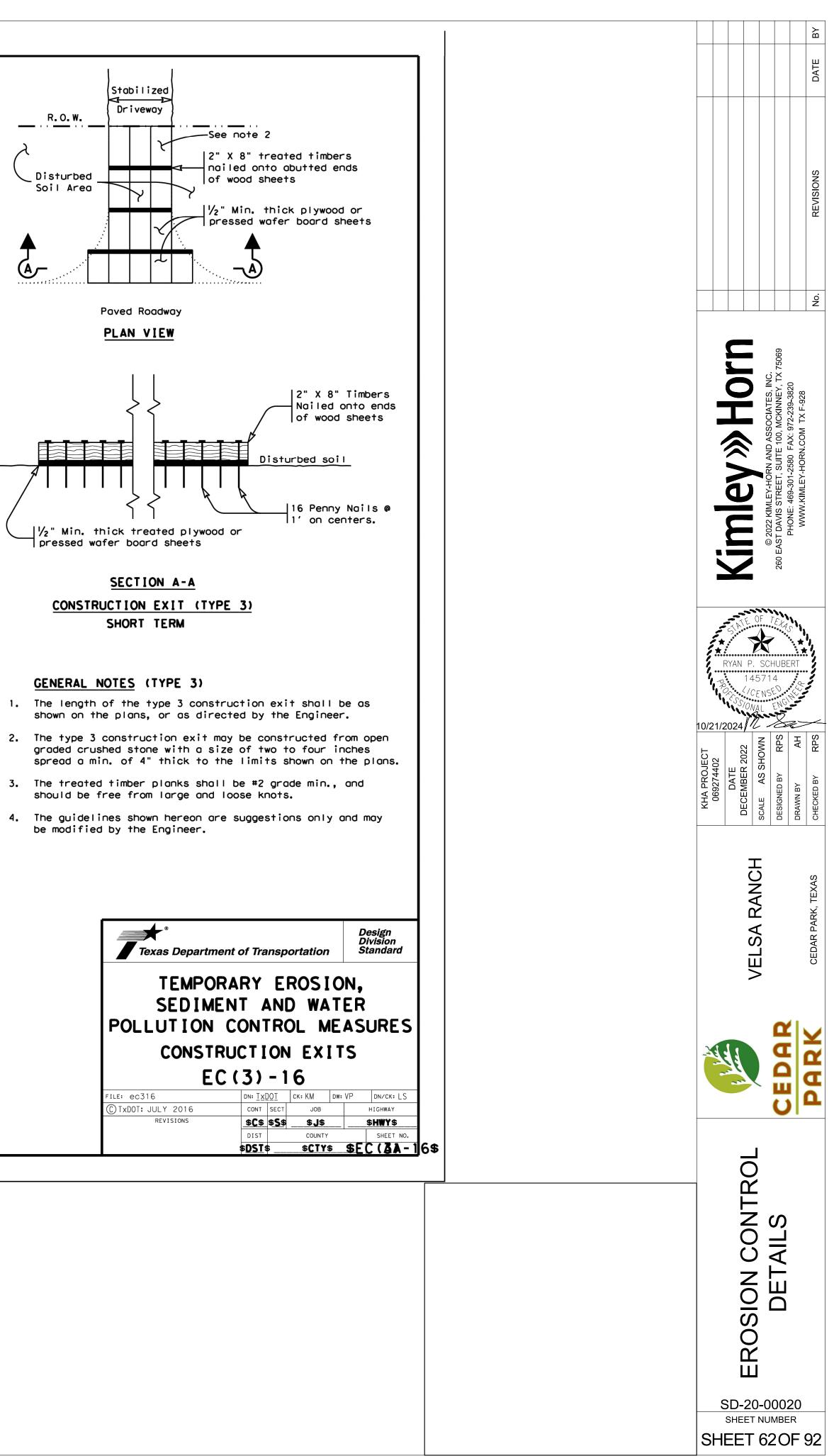


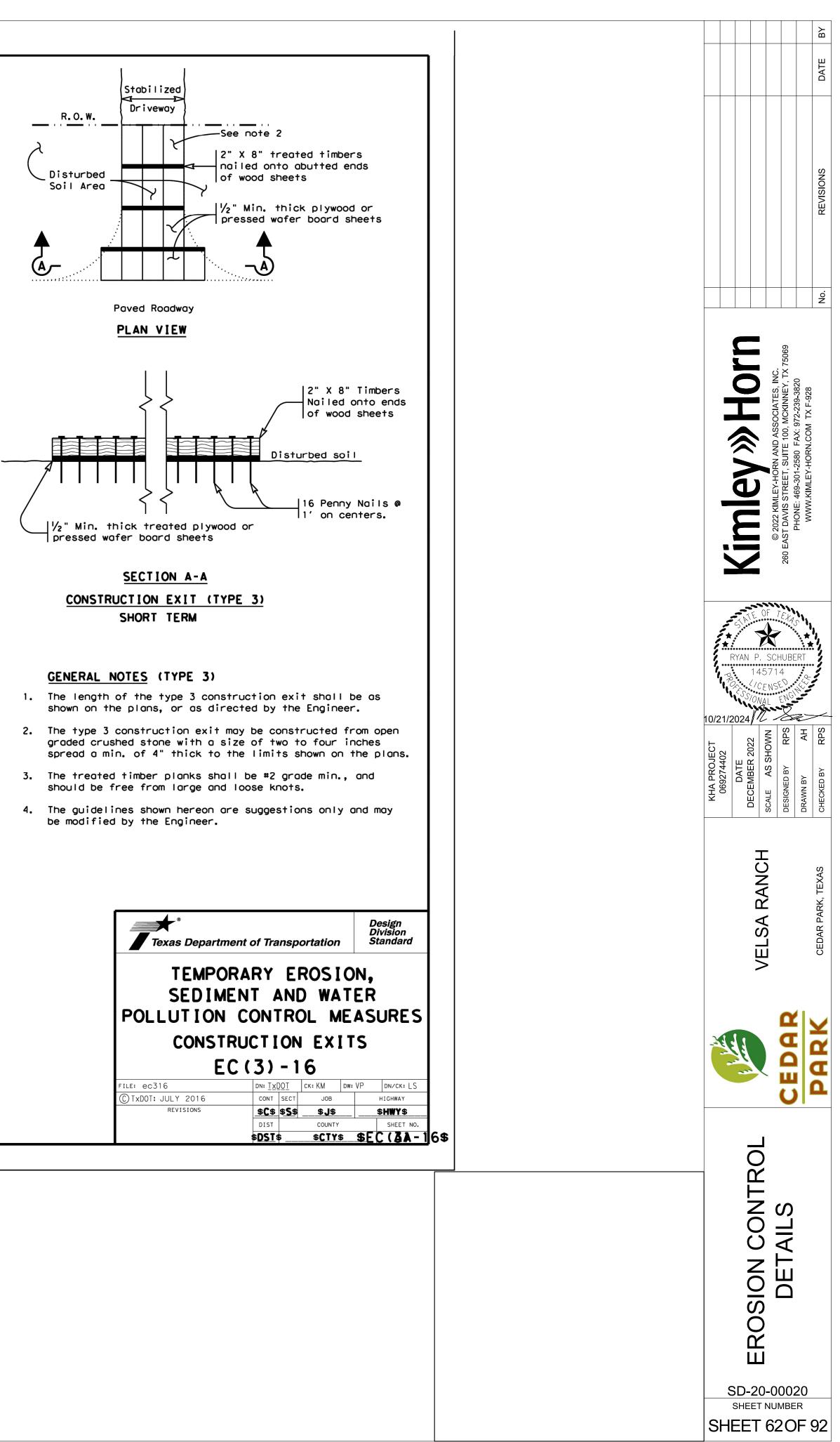
ELEVATION VIEW

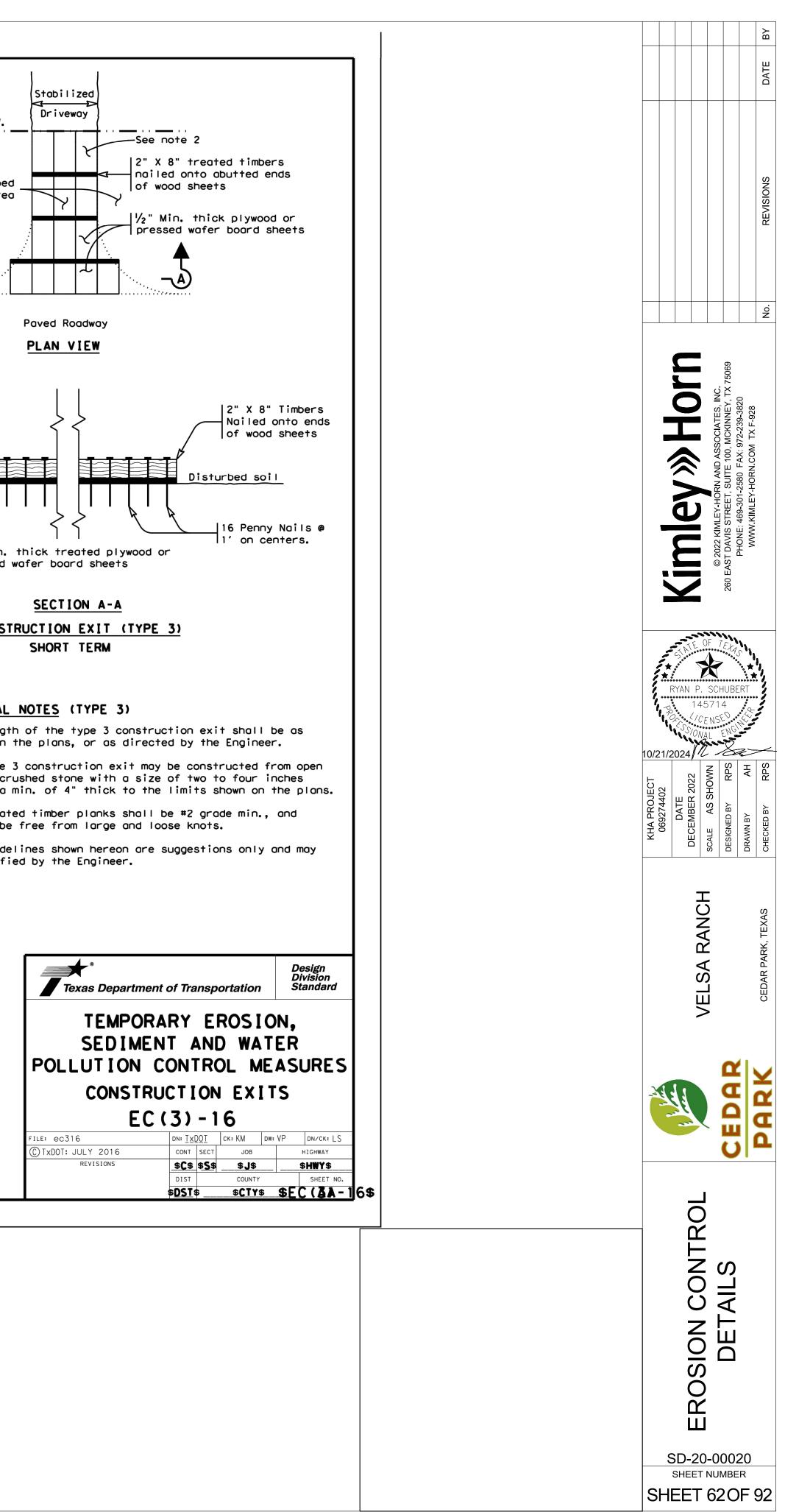
CONSTRUCTION EXIT (TYPE 2) TIMBER CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 2)

- 1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
- 2. The treated timber planks shall be attached to the railroad ties with $\frac{1}{2}$ "x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
- 3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
- 4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
- 5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
- 6. The construction exit should be graded to allow drainage to a sediment trapping device.
- 7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
- 8. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.







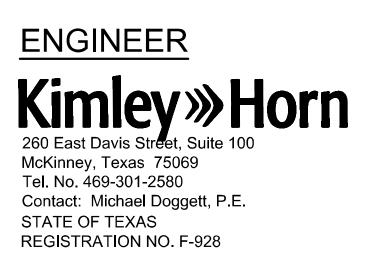
TXDOT PLANS FOR VELSA RANCH IN THE CITY OF CEDAR PARK WILLIAMSON COUNTY, TEXAS

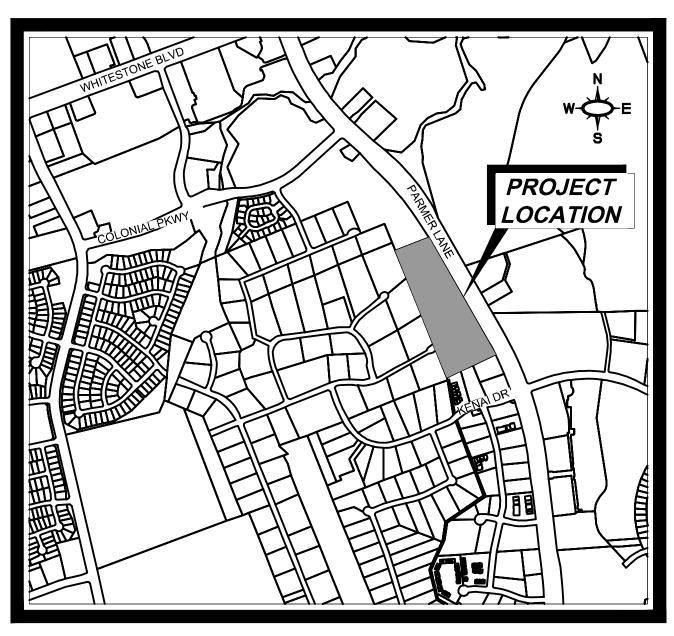
THE PURPOSE OF THESE PLANS IS TO OBTAIN A DRIVEWAY PERMIT FROM THE TEXAS DEPARTMENT OF TRANSPORTATION TO GAIN ACCESS OFF OF F.M. 0734 TO OUR PROPOSED DEVELOPMENT.

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014, AND SPECIFICATION ITEMS LISTED AS FOLLOWS SHALL GOVERN ON THIS PROJECT FOR ALL WORK WITHIN THE STATE RIGHT OF WAY.

TXDOT UTILITY PERMIT REQUIRED FOR ANY MODIFICATION OF EXISTING OR INSTALLATION OF NEW UTILITIES WITHIN THE STATE RIGHT OF WAY.

OWNER: VLS PROPERTIES, LLC. 3109 Kenai Drive, Ste. 109 Cedar Park, Texas 78613 Tel. No. 972-839-9600 Contact: Venkat Gudapuri





VICINITY MAP N.T.S.

NOTES: 1. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A 11"X17" SHEET.

2. ALL CONSTRUCTION WITHIN THE STATE RIGHT OF WAY WILL REQUIRE COMPLIANCE TO TXDOT STANDARD SPECIFICATIONS, STANDARD PLANS, AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

- 3. POSTED SPEED LIMIT ON FM 734 (WEST PARMER LANE) IS 65 MILES PER HOUR.
- 4. BY SEALING AND SIGNING THESE PERMIT PLANS AS A PROFESSIONAL CIVIL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, I CERTIFY THAT THE PROPOSED DRIVEWAY OR PUBLIC STREET CONNECTION(S) TO THE STATE ROADWAY MEETS OR EXCEEDS THE MINIMUM STOPPING SIGHT DISTANCE REQUIRED FOR A POSTED SPEED LIMIT OF 70 MILES PER HOUR, BASED ON THE MOST RECENT TXDOT DESIGN MANUAL REQUIREMENTS.
- 5. CONTRACTOR SHALL SCHEDULE A PRE-WORK INSPECTION WITH THE TXDOT INSPECTOR, 512) 832-7000, AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK.
- 6. NO LANE CLOSURES ALLOWED DURING PEAK HOURS OF 6-9 AM and DURING 4-7 PM. LANE CLOSURES BETWEEN THE HOURS OF 9 AM AND 4 PM BY TXDOT PERMIT ONLY. NIGHT TIME WORK BETWEEN 9 PM and 5 AM IS ENCOURAGED AND PREFERRED FOR IMPROVEMENTS WITHIN TXDOT R.O.W.
- 7. DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES. ALL HYDRAULICS PLANS AND CALCULATIONS ARE SHOWN IN SD-20-00020.

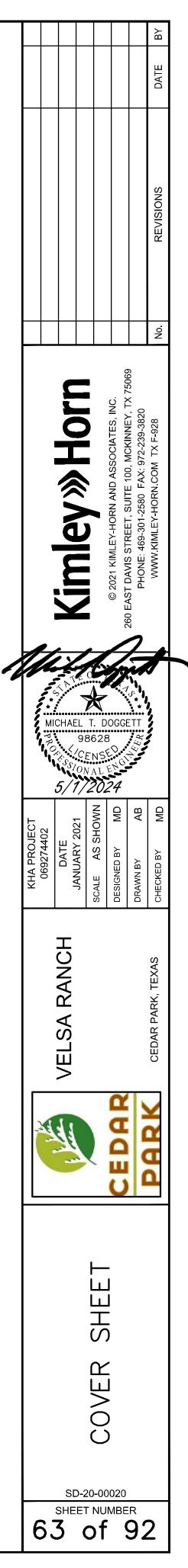
APRIL 2024

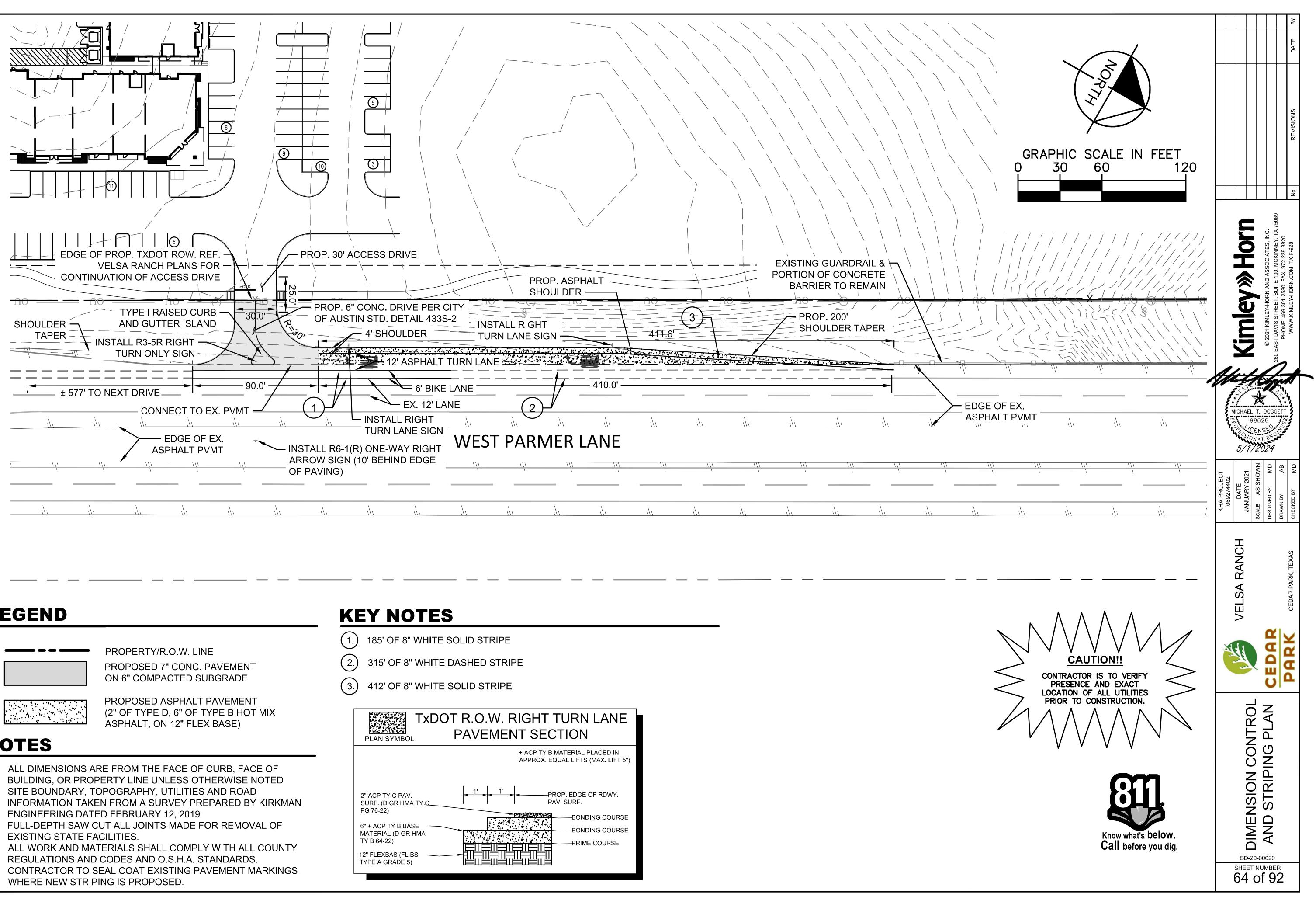
Sheet Number 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78

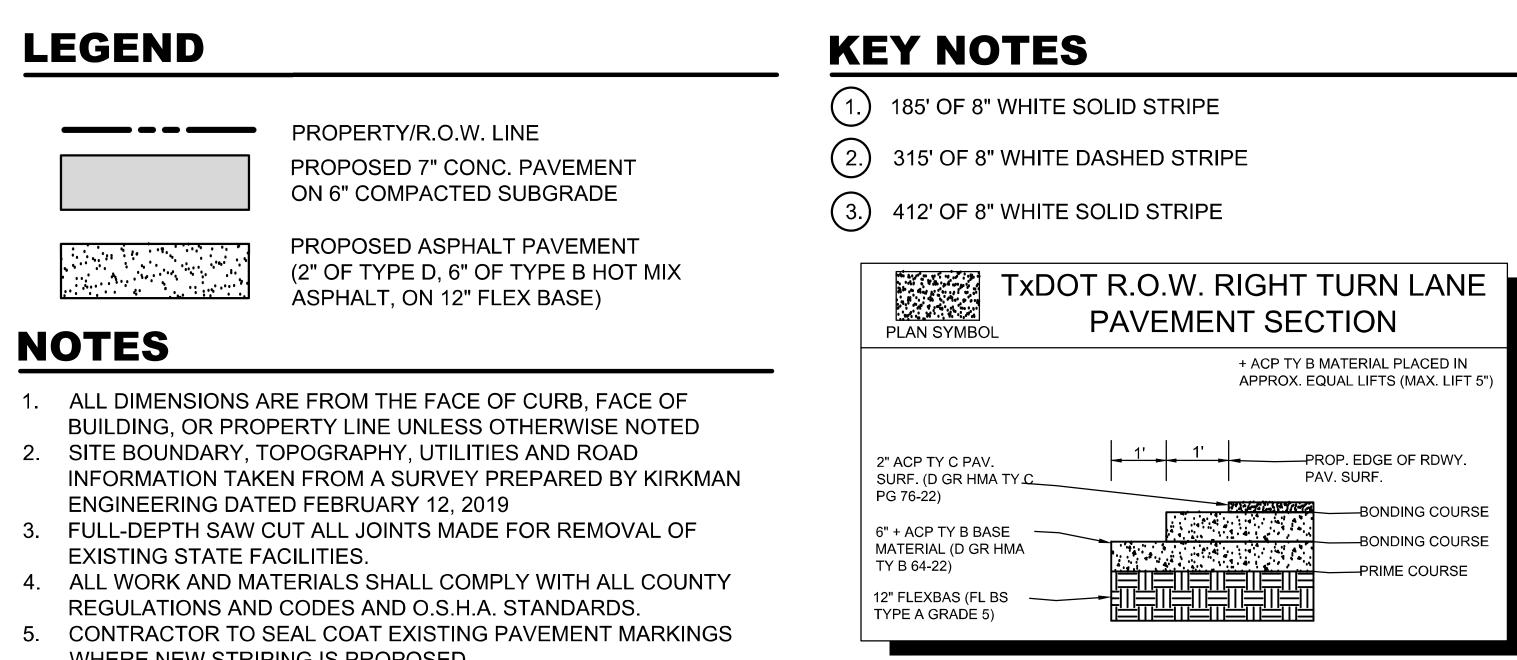
Sheet	List ⁻	Table

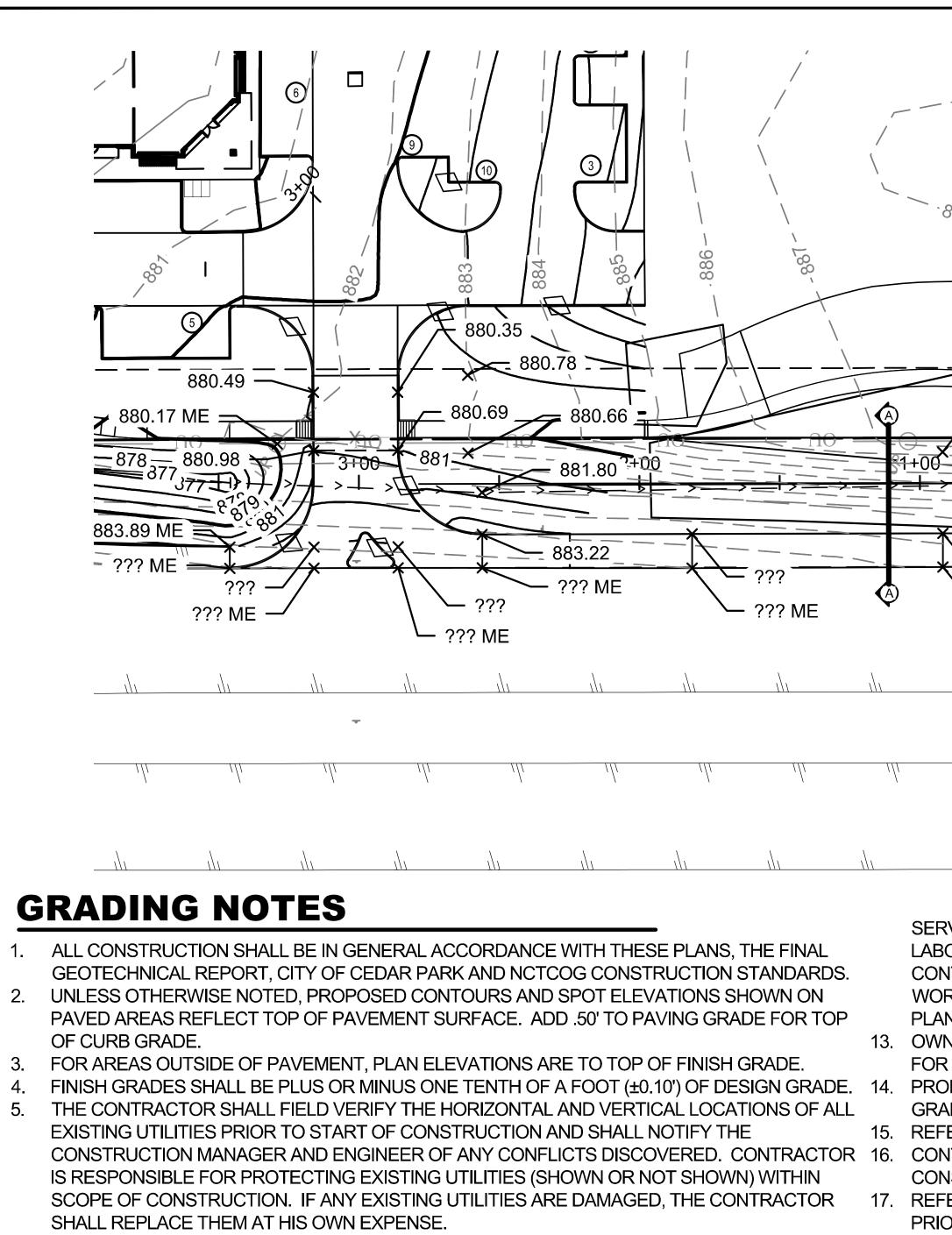
~	Sheet Title
	COVER SHEET
	DIMENSION CONTROL AND STRIPING PLAN
	GRADING
	EROSION CONTROL PLAN
	DETAILS (SHEET 1 OF 12)
	DETAILS (SHEET 2 OF 12)
	DETAILS (SHEET 3 OF 12)
	DETAILS (SHEET 4 OF 12)
	DETAILS (SHEET 5 OF 12)
	DETAILS (SHEET 6 OF 12)
	DETAILS (SHEET 7 OF 12)
	DETAILS (SHEET 8 OF 12)
	DETAILS (SHEET 9 OF 12)
	DETAILS (SHEET 10 OF 12)
	DETAILS (SHEET 11 OF 12)
	DETAILS (SHEET 12 OF 12)







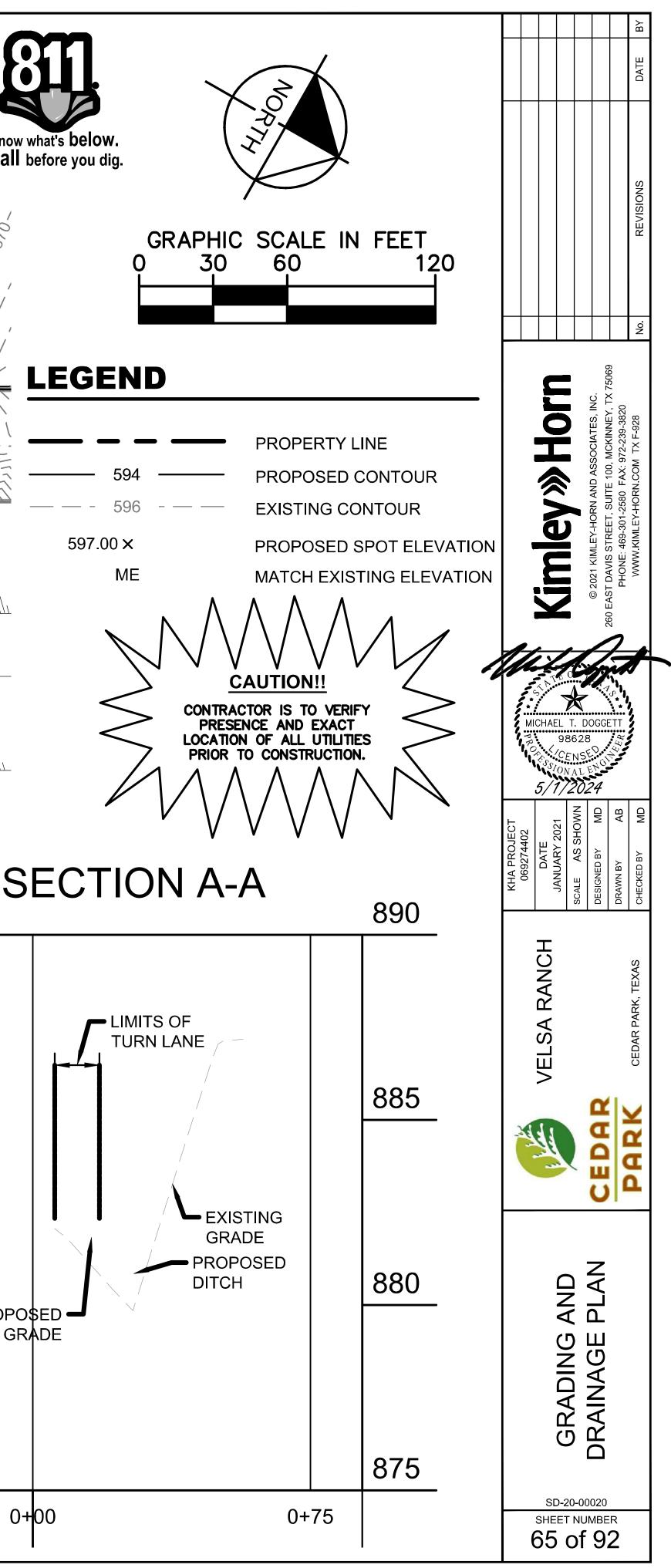


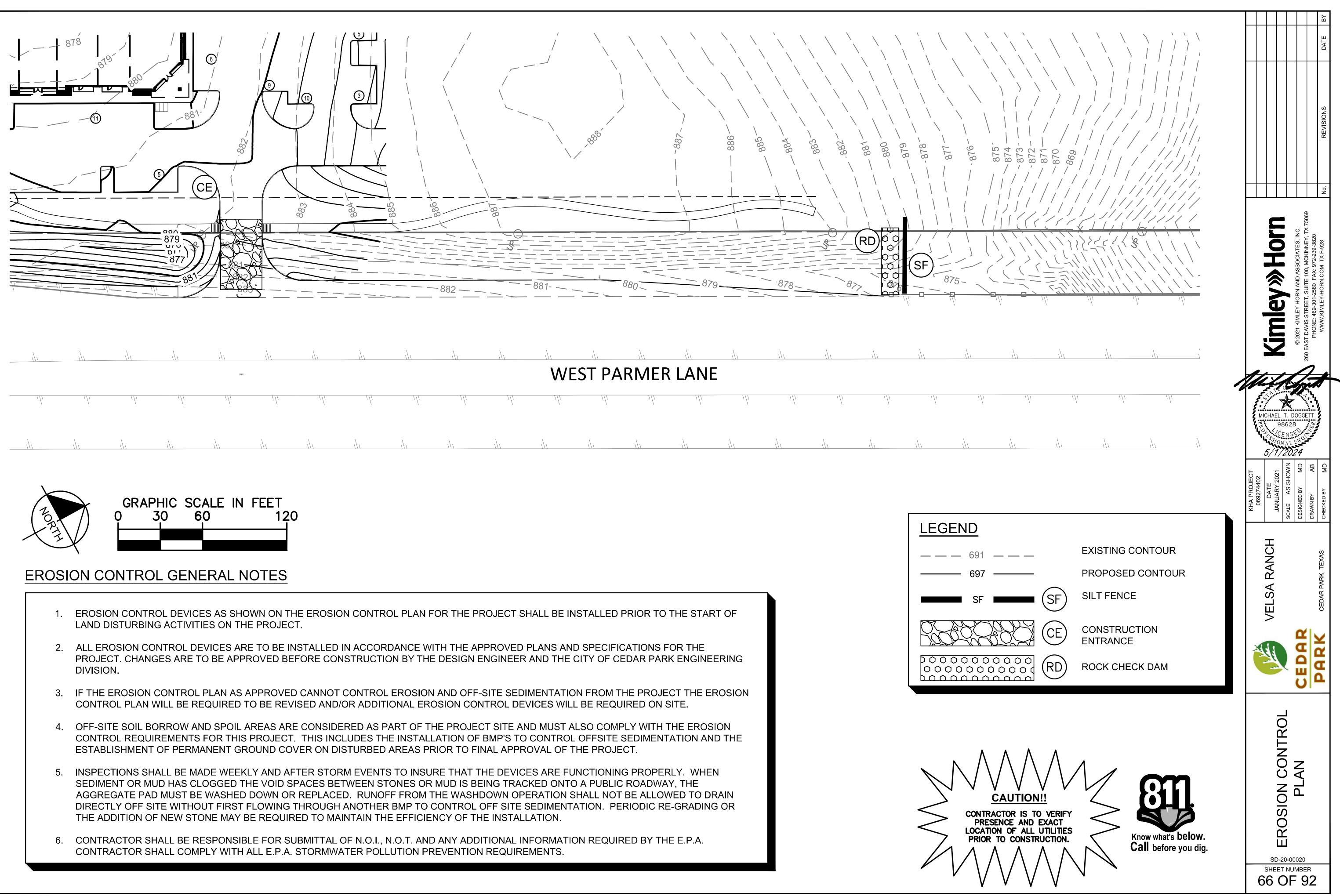


- 6. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE ENGINEER. AT NO ADDITIONAL COST TO THE OWNER.
- 7. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
- 8. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND 20. THE GRADE CONTROL POINTS RELATED TO EARTHWORK.
- 9. REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD AND PAVING SUBGRADE PREPARATION. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING FOOTPRINT DIMENSIONS.
- 10. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO22. CON PLACEMENT.
- 11. GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
- 12. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAYMENTS FOR SUCH TESTING

18. CON CON CON 19. AFTI SHAL ADE CON ARE EXIS 21. GRA SHAL OR 2 COM BE M MAT 23. TOP ENG TOP SHAI

					885.93 MI	2000 			8-18-	876		Know Call
	\?'	?? ME	,	,	— ??? ME		,	, ,	— ??? ME	Ņ	l	
							\\					1
//										1/1		
		1/1	,\									
	SERVICES SI ABORATOR CONTRACTO WORK CONS PLANS. OWNER SHA FOR FIELD LO PROPOSED O GRADIENT A REFER TO DI CONTRACTO CONSTRUCT REFER TO EI PRIOR TO CO CONSTRUCT CONSTRUCT CONSTRUCT CONSTRUCT AFTER PLAC SHALL TEST ADEQUATEL CONTRACTO SHALL TEST ADEQUATEL CONTRACTO AFTER PLAC SHALL TEST ADEQUATEL CONTRACTO	Y NOMINAT R'S RESPO STRUCTED I LL CALL DIO CONTOURS RE TO BE U MENSION CO R IS RESPO TON. ROSION CO MMENCINO R SHALL VI TON AND SHALL VI TON COMMI EMENT OF AND OBSEF Y DRAIN TO R SHALL IN ERED. ACTOR SHALL VEMENT AL	ED TO DO NSIBILITY DOES MEE GTESS AT OF UTILITII ARE APPI SED IN CA ONTROL PL SED IN CA ONTROL PL SUBGRAD RVE PAVE WARDS T MEDIATEI LL TAKE A ONG THE	THE TESTI TO SHOW I ET THE REC LEAST 72 H ES IN THE V ROXIMATE. ASE OF DISC PLAN FOR I OR OBTAIN AN FOR ER OR OBTAIN AN FOR ER UCTION. RIZONTAL A IFY ENGINE DE AND PRIC MENT AREA HE INTEND LY NOTIFY O	NG OF MAT BY STANDA UIREMENT IOURS PRIC ICINITY OF PROPOSED CREPANCY. HORIZONTA ING ALL PE COSION CON ND VERTIC ER OF ANY OR TO PLAC AS FOR EVII ED STRUCT OWNER ANI BLE PRECAU	ERIALS. IT RD TESTIN S OF THE S OR TO COM THE SITE. D SPOT ELE AL DIMENSIO RMITS AND ATROL DEV AL CONTRO DISCREPA CEMENT OF DENCE OF URE TO CO D ENGINEE JTIONS TO ING CONST	SHALL BE G PROCED PECIFICAT MENCING (VATIONS A ONS. APPROVA ICES TO BE OL PRIOR T NCIES BEF PAVEMEN PONDING. ONVEY STC R IF ANY D CONTROL RUCTION.	THE URES THAT IONS AND CONSTRUCT AND DESIGN LS PRIOR E INSTALLE O COMMENT ORE T, CONTRAT ALL AREAS ORM RUNON ISCREPANCE	THESE TION NATED TO D NCING ACTOR S SHALL F. CIES JNDER	890		S
. () () () () () () () () () () () () () (GRADING FA GRADING FC SHALL CONF OR 2% CROS COMPLIANT. BE MET AT A CONTRACTO WATCH FINIS TOPOGRAPH SHALL SUPP SURVEYOR	R ALL SIDE ORM TO AD S SLOPE. S CONTRACT NY LOCATIO R SHALL AI G DATED FI IY AS SHOV LY, AT THEI	WALKS ANDA SIDEWALK FOR SHALI ON. DJUST RIM ATION IS T EBRUARY VN ON THE R OWN EX	ND ACCESS ARDS. SLOF ACCESS TO L NOTIFY EI //S, VALVES /AKEN FRO 12, 2019. IF E PLANS, W (PENSE, A 1	IBLE ROUTI PES SHALL DEXTERNA NGINEER IM , HYDRANTS M A TOPOG THE CONTI THE CONTI	ES INCLUD NOT EXCE L BUILDING MEDIATEL S, AND OTH SRAPHIC SL RACTOR DO CEPTION, T	ING CROSS ED 5% LONG DOORS SI Y IF ADA CH IER APPUR JRVEY BY M DES NOT AG HEN THE C	GITUDINAL HALL BE AE RITERIA CA TENANCES KIRKMAN CCEPT EXI CONTRACTO	SLOPE DA INNOT S TO STING OR	875	5	PROP G +20 C





INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

The inspection and maintenance plan outlines the procedures necessary to maintain the performance of the Permanent Best Management Practices for this project. It should be noted that the plan provides guidelines that may have to be adjusted dependent on site specific and weather-related conditions.

It is the responsibility of the owner to provide the inspections and maintenance as outlined in the plan for the duration of the project. The owner will maintain this responsibility until it is assumed or transferred to another entity in writing. If the property is leased or sold, the responsibility for the maintenance will be required to be transferred through the lease agreement, binding covenants, closing documents, or other binding legal instrument.

Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities. All inspections shall be documented.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party: Mailing Address:	VLS Properties, LLC 3109 Kenai Drive, Unit 109		
City, State:	Cedar Park, Texas	Zip: <u>78613</u>	1
Telephone:	(512) 337-0418	Fax: N/A	

I, the owner, have read and understand the requirements of the attached Inspection and Maintenance Plan for the proposed Permanent Best Management Practices for my project. I acknowledge that I will maintain responsibility for the implementation and execution of the plan until the responsibility is transferred to or assumed by another party in writing through a binding legal instrument.

Signature of Responsible Party ______

This Maintenance Plan is based on City of Austin Environmental Criteria Manual.

16 Sac

Date 9/9/2024

Inspection and Maintenance For BMPs

BATCH DETENTION SYSTEM

- Grease. The smartPOND valve includes a grease fitting on the valve itself which should be greased twice per year. It is also recommended that a thick, mildly heat-resistant grease be used to avoid grease melting out of the groove in warmer temperatures.
- Flange Bolts. There are 6 bolts connecting the smartPOND valve's flange to the outfall pipe or fixture. During routine maintenance intervals, these bolts should be checked for tightness. All bolts should be tightened evenly.
- Perforated Riser. Silt, sediment, and debris can build up around the perforated riser with time. An annual inspection of the unit is necessary to ensure that excess debris or sediment has not limited the drainage capacity of the perforated riser. To access the perforated riser for maintenance, lift the trash cage off of the riser, dig out any accumulated sediment, and clear all perforations.
- Trash Cage. As a part of routine maintenance, it is advisable to remove trash and debris that has accumulated on the trash cage and properly dispose.
- Solar Panel. On all inspection visits, it is necessary to confirm that the solar panel is facing south and is well secured. The solar panel is commonly utilized by birds and insects. It is important to keep the surface clean of bird litter, insect nests and debris in order to maintain optimal performance.
- Battery. Over time, battery terminals may corrode. Check annually for corrosion and clean as needed. The battery should be replaced every 4 to 6 years.
- Storage. The smartPOND valve is shipped in a near-fully assembled configuration and should be stored likewise. The systems are transported and stored on pallets and must remain secured via straps or steel bands to said pallet at all times. The solar panel is not installed at times of transport or storage and should not be installed until the unit is ready to begin operation. The battery may be stored inside the electronics box and if removed, should never be stored on a concrete surface.

Personnel Responsible for Inspections

The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification. Documentation of the inspector's qualifications is to be included in the attached Inspector Qualifications Log.

Inspection Schedule

The primary operator is required to choose one of the two inspections listed below.

- Option 1: Once every seven calendar days. If this alternative schedule is developed, then the inspection must occur regardless of whether or not there has been a rainfall event since the previous inspection.
 Option 2: Once every 14 calendar days and within 24 hours of the end of a
 - **Option 2:** Once every 14 calendar days and within 24 hours of the end of a storm event of two inches or greater.

The inspections may occur on either schedule provided that documentation reflects the current schedule and that any changes to the schedule are conducted in accordance with the following provisions: the schedule may be changed a maximum of one time each month, the schedule change must be implemented at the beginning of a calendar month, and the reason for the schedule change must be documented (e.g., end of "dry" season and beginning of "wet" season).

If option 2 is the chosen frequency of inspections a rain gauge must be properly maintained on site or the storm event information from a weather station that is representative of the site location. For any day of rainfall during normal business hours that measures 0.25 inches or greater, proper documentation of the total rainfall measured for that day must be recorded. Personnel provided by the permittee must inspect:

- disturbed areas of the construction site that have not been finally stabilized;
- areas used for storage of materials that are exposed to precipitation;
- structural controls (for evidence of, or the potential for, pollutants entering the drainage system);
- sediment and erosion control measures identified in the SWP3 (to ensure they are operating correctly); and
- locations where vehicles enter or exit the site (for evidence of off-site sediment tracking).

Reductions in Inspection Frequency

Where sites have been finally or temporarily stabilized or where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), inspections must be conducted at least once every month. In arid, semi-arid, or drought-stricken areas, inspections must be conducted at least once every month and within 24 hours after the end of a storm event of 0.5 inches or greater. A record of the total rainfall measured, as well as the approximate beginning and ending dates of winter or drought conditions resulting in monthly frequency of inspections in the attached Rain Gauge Log.

In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.

Inspection Report Forms

Use the Inspection Report Forms given as a checklist to ensure that all required areas of the construction site are addressed. There is space to document the inspector's name as well as when the inspections regularly take place. The tables will document that the required area was inspected. (If there were any areas of concern, briefly describe them in this space with a more detailed description in the narrative section. Use the last table to document any discharges found during the inspections).

Describe how effective the installed BMPs are performing. Describe any BMP failures that were noted during the investigation and describe any maintenance required due to the failure. If new BMPs are needed as the construction site changes, the inspector can use the space at the bottom of the section to list BMPs to be implemented before the next inspection.

Describe the inspector's qualifications, how the inspection was conducted, and describe any areas of non-compliance in detail. If an inspection report does not identify any incidents of non-compliance, then it must contain a certifying signature stating that the facility or site is in compliance. The report must be signed by a person and in a manner required by 30 TAC 305.128. There is space at the end of the form to allow for this certifying signature.

Whenever an inspection shows that BMP modifications are needed to better control pollutants in runoff, the changes must be completed within seven calendar days following the inspection. If existing BMPs are modified or if additional BMPs are needed, you must describe your implementation schedule, and wherever possible, make the required BMP changes before the next storm event.

The Inspection Report Form functions as the required report and must be signed in accordance with TCEQ rules at 30 TAC 305.128.

Corrective Action

Personnel Responsible for Corrective Actions

Both Primary and Secondary Operators are responsible for maintaining all necessary Corrective Actions. If an individual is specifically identified as the responsible party for modifying the contact information for that individual should be documented in the attached Inspector Qualifications Log.

Corrective Action Forms

The Temporary BMPs must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in the attached forms and wherever possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable. Actions taken as a result of inspections must be properly documented by completing the corrective action forms given.

Schedule of Interim and Permanent Soil Stabilization

Construction practices shall disturb the minimal amount of existing ground cover as required for land clearing, grading, and construction activity for the shortest amount of time possible to minimize the potential of erosion and sedimentation from the site. Existing vegetation shall be maintained and left in place until it is necessary to disturb for construction activity. For this project the following stabilization practices will be implemented:

- 1. Silt Fencing: As per the project erosion control plan, silt fencing will be applied to the perimeter of the site where the drainage flows offsite.
- Inlet Protection: As per the project erosion control plan, the newly constructed inlets will be covered by inlet protection to avoid additional silt and sediment from infiltrating the storm system.

Records of the following shall be maintained:

- a) The dates when major grading activities occur;
- b) The dates when construction activities temporarily or permanently cease on a portion of the site; and
- c) The dates when stabilization measures are initiated.

Stabilization measures must be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, and except as provided in the following, must be initiated no more that fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased:

Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practical.

Where construction activity on a portion of the site is temporarily ceased and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of the site.

In arid areas (areas with an average rainfall of 0-10 inches), semiarid areas (areas with an average annual rainfall of 10 to 20 inches), and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practical.

Maintenance

Below are some maintenance practices to be used to maintain erosion and sediment controls:

- All measures will be maintained in good working order. The operator should correct any damage or deficiencies as soon as practicable after the inspection, but in no case later than seven (7) calendar days after the inspection.
- BMP Maintenance (as applicable)
- Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.
- Silt fence will be inspected for depth of sediment, tears, to see of the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- Drainage swale will be inspected and repaired as necessary.
- Inlet control will be inspected and repaired as necessary.
- Diversion dike will be inspected and any breaches promptly repaired.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- If sediment escapes the site, accumulations must be removed at a frequency that minimizes off-site impacts, and prior to the next rain event, if feasible. If the permittee does not own or operate the off-site conveyance, then the permittee must to work with the owner or operator of the property to remove the sediment.
- Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.

To maintain the above practices, the following will be performed:

• Maintenance and repairs will be conducted before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. Following an inspection, deficiencies should be corrected no later than seven (7) calendar days after the inspection.

Kimley »Horn

Inspector Qualifications Log*

Inspector Name:
Qualifications (Check as appropriate and provide description):
Training Course
 Supervised Experience Other
Inspector Name: Qualifications (Check as appropriate and provide description):
□ Training Course
□ Supervised Experience
□ Other
Inspector Name:
Qualifications (Check as appropriate and provide description):
□ Training Course
Supervised Experience
Other
Inspector Name:
Qualifications (Check as appropriate and provide description):
Training Course
 Supervised Experience Other
Inspector Name:
Qualifications (Check as appropriate and provide description): Training Course
Supervised Experience
□ Other
Inspector Name: Qualifications (Check as appropriate and provide description):
□ Training Course
Supervised Experience
□ Other

* The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification.

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

Amendment Log

Construction Activity Sequence Log

Name of Operator	Projected dates Month/year	Activity Disturbing Soil clearing, excavation, etc.	Location on-site where activity will be conducted	Acreage being disturbed

*Construction activity sequences for linear projects may be conducted on a rolling basis. As a result, construction activities may be at different stages at different locations in the project area. The Contractor is required to complete and update the schedule and adjust as necessary.

Stormwater Control Installation and Removal Log

Stormwater Control	Location On-Site	Installation Date	Removal Date

Stabilization Activities Log

Date Activity Initiated	Description of Activity	Description of Stabilization Measure and Location	Date Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures Initiated

Stabilization and erosion control practices may include, but are not limited to: establishing temporary or permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, and protecting existing trees and vegetation. List practices used where they are located, when they will be implemented, and whether they are temporary (interim) or permanent.

Inspection Frequency Log						
Date	Frequency Schedule and Reason for Change					
L	1					

Inspection Frequency Log

Rain	Gauge	Log
------	-------	-----

Date	Location of Rain Gauge	Gauge Reading					

General Information								
Name of Project			Tra	cking No.		Inspection Date		
Inspector Name, Tit Information	e & Contact							
Present Phase of Co	onstruction							
Inspection Location inspections are req location where this being conducted)	uired, specify	,						
- 🗌 Once per	ency: UW ency: I ency: I month (for sta month and wit	Every 7 days and within 24 hours o	of a 0.25" rain id, semi-arid, or drou	ght-stricken a		dry periods or during	ı drought)	
If yes, how did y	Was this inspection triggered by a 0.25" storm event? Yes No If yes, how did you determined whether a 0.25" storm event has occurred? Rain gauge on site Weather station representative of site. Specify weather station source: Total rainfall amount that triggered the inspection (in inches): If inches							
Unsafe Conditions for Inspection Did you determine that any portion of your site was unsafe for inspection? Yes If "yes", complete the following: - Describe the conditions that prevented you from conducting the inspection in this location: - Location(s) where conditions were found:								

	Condition and Effectiveness of Erosion and Sediment (E&S) Controls						
Type/Location of E&S Control	Repairs or Other Maintenance Needed?	Corrective Action Required?	Date on Which Maintenance or Corrective Action First Identified?	Notes			
1.	□Yes □No	□Yes □No					
2.	□Yes □No	□Yes □No					
3.	□Yes □No	□Yes □No					
4.	□Yes □No	□Yes □No					
5.	□Yes □No	□Yes □No					
6.	□Yes □No	□Yes □No					
7.	□Yes □No	□Yes □No					
8.	□Yes □No	□Yes □No					
9.	□Yes □No	□Yes □No					
10.	□Yes □No	□Yes □No					

Condition and Effectiveness of Pollution Prevention (P2) Practices						
Type/Location of P2 Practices	Repairs or Other Maintenance Needed?	Corrective Action Required?	Identification Date	Notes		
1.	□Yes □No	□Yes □No				
2.	□Yes □No	□Yes □No				
3.	□Yes □No	□Yes □No				
4.	□Yes □No	□Yes □No				
5.	□Yes □No	□Yes □No				
6.	□Yes □No	□Yes □No				
7.	□Yes □No	□Yes □No				
8.	□Yes □No	□Yes □No				
9.	□Yes □No	□Yes □No				
10.	□Yes □No	□Yes □No				

Stabilization of Exposed Soil					
Stabilization Area	Stabilization Method	Have You Initiated Stabilization?	Notes		
1.		YES NO If yes, provide date:			
2.		YES NO If yes, provide date:			
3.		YES NO If yes, provide date:			
4.		YES NO If yes, provide date:			
5.		☐ YES ☐ NO If yes, provide date:			
	Description of D	Discharges			
	discharge occurring from any part of yo ormation for each point of discharge:	our site at the time of the inspection?] Yes 🔲 No		
Discharge Location	Observations				
1.	Describe the discharge:				
	signs of erosion and/or sediment accum	and banks of surface waters in the immedulation that can be attributed to your dischart the location(s) where these conditions wattion is needed to resolve the issue:	rge? 🗌 Yes 🗌 No		
2.	Describe the discharge:				
	At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:				
3.	Describe the discharge:				
	At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? Yes No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:				

Contractor or Subcontractor Certification and Signature

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: _____

Date:

Certification and Signature by Permittee

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Fermittee of	
"Duly Authorized Representative":	Date:
•	

Printed	Name	and	Affilia	ation:
---------	------	-----	---------	--------

Signature of Dermittee or

Section A – Initial Report (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action)										
Name of Project Tracking N	lo.		Today's Date							
Date Problem First Discovered		Time Problem Firs	t Discovered							
Name and Contact Information of Individual Completing this Form										
What site conditions triggered the requirement to conduct corrective action: A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3 The stormwater controls that have been installed and maintained are not effective enough for the discharge to meet applicable water quality standards A prohibited discharge has occurred or is occurring 										
Provide a description of the problem:										
	Deadline for completing corrective action (Enter date that is either: (1) no more than 7 calendar days after the date you discovered the problem, or (2) if it is infeasible to complete work within the first 7 days, enter the date that is as soon as practicable following the 7th day):									
If your estimated date of completion falls after the 7-day deadlin date you have established for making the new or modified storm				1 7 days, and (2) why the						
Section (Complete this section <u>no later than 7 ca</u>		ctive Action Progr r discovering the condi								
Section B.1 – Why the Problem Occurred										
Cause(s) of Problem (Add an additional sheet if necessary)		How This Was Determined and the Date You Determined the Cause								
1.		1.								
2.		2.								
3.		3.								
Section B.2 – Stormwater Control Modifications to be I	mplemented	to Correct the Pro	oblem							
List of Stormwater Control Modification(s) Needed to Correct Problem (Add an additional sheet if necessary)	Completion Date	SWPPP Update Necessary?	Notes							
1.		□Yes □No Date:								
2.		□Yes □No Date:								
3.		□Yes □No Date:								

Section A – Initial Report (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action)										
Name of Project	Trackin	g No.		Today's Date						
Date Problem First Disco	vered		Time Problem Firs	t Discovered						
Name and Contact Inform Form	nation of Individual Completing this									
What site conditions triggered the requirement to conduct corrective action: A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3 The stormwater controls that have been installed and maintained are not effective enough for the discharge to meet applicable water quality standards A prohibited discharge has occurred or is occurring 										
Provide a description of t	he problem:									
	Deadline for completing corrective action (Enter date that is either: (1) no more than 7 calendar days after the date you discovered the problem, or (2) if it is infeasible to complete work within the first 7 days, enter the date that is as soon as practicable following the 7th day):									
	completion falls after the 7-day dead l for making the new or modified sto				1 7 days, and (2) why the					
	See (Complete this section <u>no later than</u>		ctive Action Progr er discovering the condi							
Section B.1 – Why the	Problem Occurred									
Cause(s) of Problem (Add	d an additional sheet if necessary)		How This Was Determined and the Date You Determined the Cause							
1.			1.							
2.			2.							
3.			3.							
Section B.2 – Stormw	ater Control Modifications to b	e Implemented	to Correct the Pr	oblem						
List of Stormwater Contr Problem (Add an additio	ol Modification(s) Needed to Correc nal sheet if necessary)	Completion Date	SWPPP Update Necessary?	Notes						
1.			□Yes □No Date:							
2.			□Yes □No Date:							
3.			□Yes □No Date:							

	Contractor or Subcontractor Certification and Signature	
kimley-horn.com	260 East Davis Street, Suite 100, McKinney, TX 75069	469 301 2580

"I certify under penalty of law that this document and all attachments were prepared under my direction assure that qualified personnel properly gathered and evaluated the information submitted. Based of system, or those persons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false information, include violations."	on my inquiry of the person or persons who manage the is, to the best of my knowledge and belief, true, accurate,
Signature of Contractor or Subcontractor:	Date:
Printed Name and Affiliation:	
Certification and Signature by Permittee	9
"I certify under penalty of law that this document and all attachments were prepared under my direction assure that qualified personnel properly gathered and evaluated the information submitted. Based of system, or those persons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false information, includiviolations."	on my inquiry of the person or persons who manage the is, to the best of my knowledge and belief, true, accurate,
Signature of Permittee or "Duly Authorized Representative":	Date:
Printed Name and Affiliation:	

PILOT-SCALE FIELD TESTING PLAN

(NOT APPLICABLE)

MEASURES FOR MINIMIZING SURFACE STREAM

CONTAMINATION

During construction, standard erosion measures will be used as shown in the construction plans. Runoff from the construction site will be contained by a silt fence until construction is complete. Entry and exit from the site will be through a stabilized construction entrance.

After completion of the project, temporary erosion and sedimentation measures (silt fence and rock berm) will remain in place until vegetative cover is established. Details concerning the erosion/sedimentation protection plan can be found on the Erosion & Sedimentation Control Plans of the construction drawings.

SECTION 4: Additional Forms

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: Ryan Schubert

Date: ____09/06/2024

Signature of Customer/Agent:

Regulated Entity Name: VELSA RANCH

Project Information

Potential Sources of Contamination

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

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

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

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

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

Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
 Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

- Fuels and hazardous substances will not be stored on the site.
- 2. Attachment A Spill Response Actions. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. Attachment B Potential Sources of Contamination. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. Attachment C - Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>BRUSHY</u> CREEK

Temporary Best Management Practices (TBMPs)

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

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

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

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

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

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

Administrative Information

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

ATTACHMENT A

SPILL RESPONSE ACTIONS

If there is an accidental spill on site, the contractor shall respond with appropriate action. The contractor will be required to contact the owner and in turn the owner will contact the TCEQ in the event of a spill on site. In addition to the following guidance, reference the latest version of TCEQ's Technical Guidance Manual (TGM) RG-348 Section 1.4.16.

Cleanup

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

Minor Spills

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

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

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

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

ATTACHMENT B

POTENTIAL SOURCES OF CONTAMINATION

During the construction phase, the following are potential sources of contamination:

- Fuel spills (diesel, gasoline, etc.)
- Potential leaks from construction equipment

Other activities or processes which may be a potential source of contamination primarily involve normal vehicular construction traffic which generates a variety of potential contaminants typically represented by nonpoint source pollution in urban runoff. These may include:

- Total suspended solids
- Petroleum related organic compounds
- Trash and litter

Many of the potential contaminants are related to normal vehicle wear, minor oil and gasoline leaks, and construction vehicle emission.

Another potential source of contamination is related to large leaks or spills related to accidents or malfunction of a construction vehicle. These potential contaminants include gasoline, diesel, oil, and many other liquid and dry chemical products.

ATTACHMENT C

SEQUENCE OF MAJOR ACTIVITIES

Sequence of Major Activities that will disturb soils:

- 1. Clearing and Grubbing approx. 12.41 +/- acres disturbed
- 2. Excavation and Grading approx. 12.41 +/- acres disturbed
- 3. Installation of Utilities approx. 12.41 +/- acres disturbed
- 4. Final Dress up approx. 12.41+/- acres disturbed

If portions of the site will have a 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.

ATTACHMENT D

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Temporary BMPs to be used are as follows:

- Stabilized construction entrances
- Silt Fence
- Rock Berm
- Inlet protection
- Temporary Sedimentation Basin
- Good housekeeping measures
- All spoils hauled to approved spoils site
- Inspection of BMPs

Construction Sequencing (refer to Attachment C, this form):

- Item #1 - Stabilized construction entrances, temporary sedimentation basin, rock berm, and silt fence will all be installed prior to any soil disturbing activities and maintained until final stabilization.

- Items #2 and #3 - Good housekeeping measures and BMP inspection will be performed during these construction activities.

- Item #4 - Following end of construction activities, site restoration will begin as soon as practicable.

ATTACHMENT E

REQUEST TO TEMPORARILY SEAL A FEATURE

Not applicable.

ATTACHMENT F

STRUCTURAL PRACTICES

Structural practices used to divert flows away from exposed soils, to store flows and to otherwise limit runoff discharge of pollutants from exposed areas of the site will consist of the following:

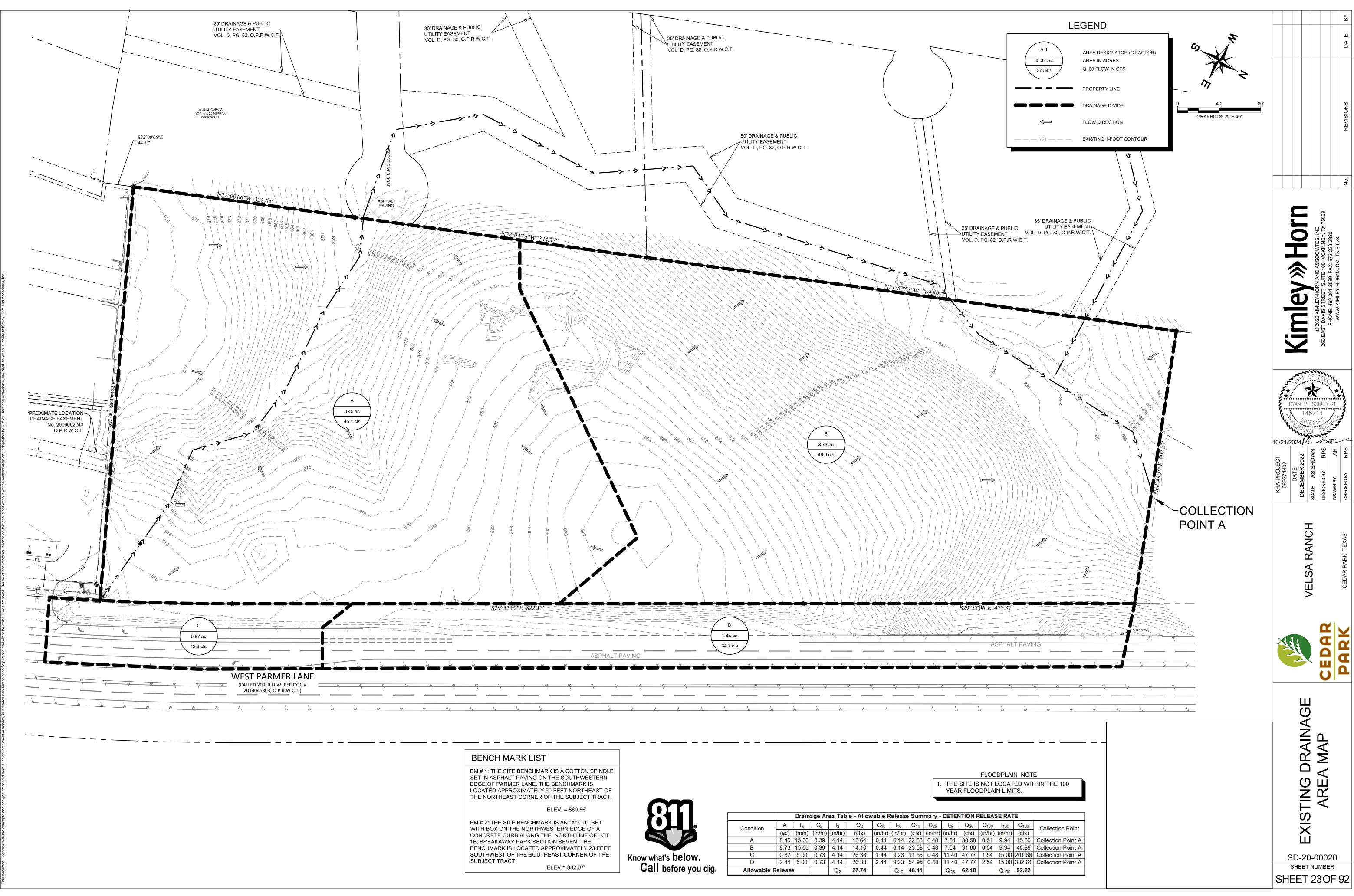
- Silt fence
- Rock berm
- Inlet protection

Each type of structural practice will be placed at locations shown in the plans. During construction, the controls will be maintained and adjusted in the field when necessary to minimize the release of sediment from the project area. Placement of structural practices in floodplains has been avoided to the maximum extent practicable.

ATTACHMENT G

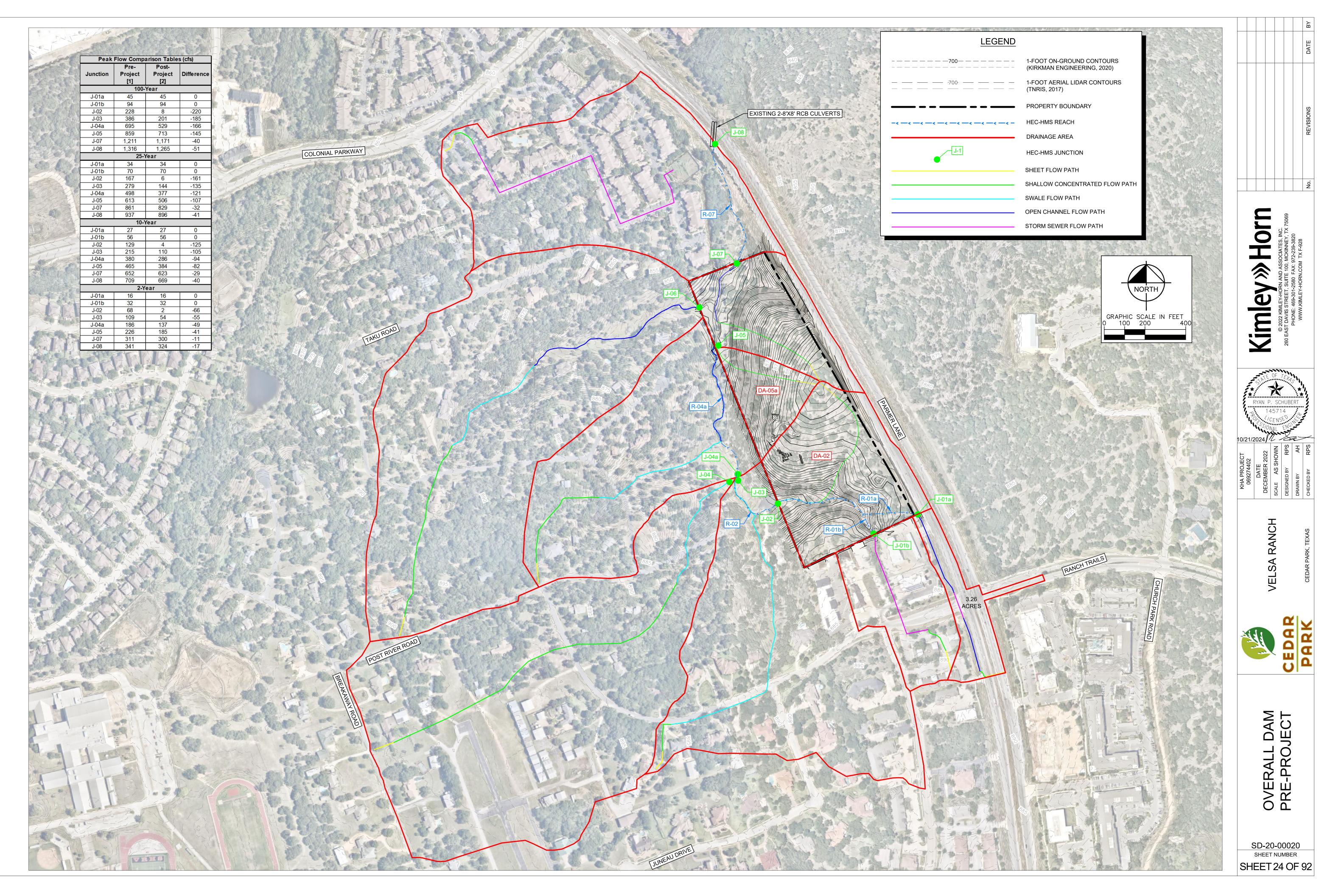
DRAINAGE AREA MAP

See the Drainage Area Map in the construction plan found included in the submittal package.



Uedar Park Logo : xExDAM : xSurv : 7/9/2024 5:11 PM SCHUBERT, RYAN K:AUS_CIVIL/06927 EXISTING DPANAG IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

		Drain	age Ar	ea Tab	le - Allow	vable F	Release	e Sum	mary -	DETEN	ITION F	RELEAS	SE
Condition	Α	Tc	C ₂	l ₂	Q ₂	C ₁₀	I ₁₀	Q ₁₀	C ₂₅	1 ₂₅	Q ₂₅	C ₁₀₀	
Condition	(ac)	(min)	(in/hr)	(in/hr)	(cfs)	(in/hr) (in/hr) (cfs) (in/hr) (in/hr) (cfs) (in/hr) (i							
Α	8.45	15.00	0.39	4.14	13.64	0.44	6.14	22.83	0.48	7.54	30.58	0.54	1
В	8.73	15.00	0.39	4.14	14.10	0.44	6.14	23.58	0.48	7.54	31.60	0.54	1
C	0.87	5.00	0.73	4.14	26.38	1.44	9.23	11.56	0.48	11.40	47.77	1.54	1
D	2.44	5.00	0.73	4.14	26.38	2.44	9.23	54.95	0.48	11.40	47.77	2.54	1
Allowable R	elease	9 (Q ₂	27.74		Q ₁₀	46.41		Q ₂₅	62.18		1





r : xSite 6:56 PM AR PARK I 25 DRA 1/202/ 2-CED DWG . Cedar Park Logo : xDAM : xStm : xSurv : 717/2024 5:20 PM 717/2024 5:20 PM 717/2024 5:20 PM 717/2024 5:20 PM 717/2024 5/20 PM 7021 002274402 DRAINAGE AREA MAP.D

IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

ratio	on - Area B-2		Time of	Concentrat	ion - Area B-1		Time of Co	ncentratio	on - Area A-4	1	Time of	Concentra	tion - Area A-3		Time of Co	ncentrati	on - Area A-1		Time
	Shallow Conce	entrated Flow	She	et Flow	Shallow Conc	entrated Flow	Sheet	Flow	Shallow Conce	entrated Flow	She	et Flow	Shallow Cond	centrated Flow	Sheet	Flow	Shallow Conce	entrated Flow	5
.015	paved?	no	n	= 0.01	5 paved?	no no	n =	0.015	paved?	no	n :	= 0.01	5 paved	? no	n =	0.015	paved?	no	_
0.02	S (ft/ft)	0.02	S (ft	ft) 0.0	2 S (ft/ft	0.02	S (ft/ft)	0.02	S (ft/ft)	0.02	S (ft/	t) 0.0)2 S (ft/ft) 0.02	S (ft/ft)	0.02	S (ft/ft)	0.02	S
100	L (ft)	503	L	ft) 10	D L (ft) 59	L (ft)	100	L (ft)	122	L (t) 10	00 L (ft) 222	L (ft)	100	L (ft)	15	
4.03			P2	= 4.0	3		P2 =	4.03			P2 :	= 4.0	3		P2 =	4.03			F
1.38	T (min) =	3.67	T (min)	= 1.3	B T (min) =	0.43	T(min) =	1.38	T (min) =	0.89	T (min)	= 1.3	8 T (min) =	1.62	T(min) =	1.38	T (min) =	0.11	T (mi
1) =	5.06		Tot	al Tc <mark>(min)</mark> =	1.81		Total T	"c (min) =	2.27		Tota	al Tc (min) :	= 3.01		Total T	[•] c (min) =	1.49		7
ו) =	5.00	Mininum used	Tot	al Tc (min) =	5.00	Mininum used	Total 1	⁻ c (min) =	5.00	Mininum used	Tota	al Tc (min) :	= 5.00	Mininum used	Total T	<mark>c (min) =</mark>	5.00	Mininum used	

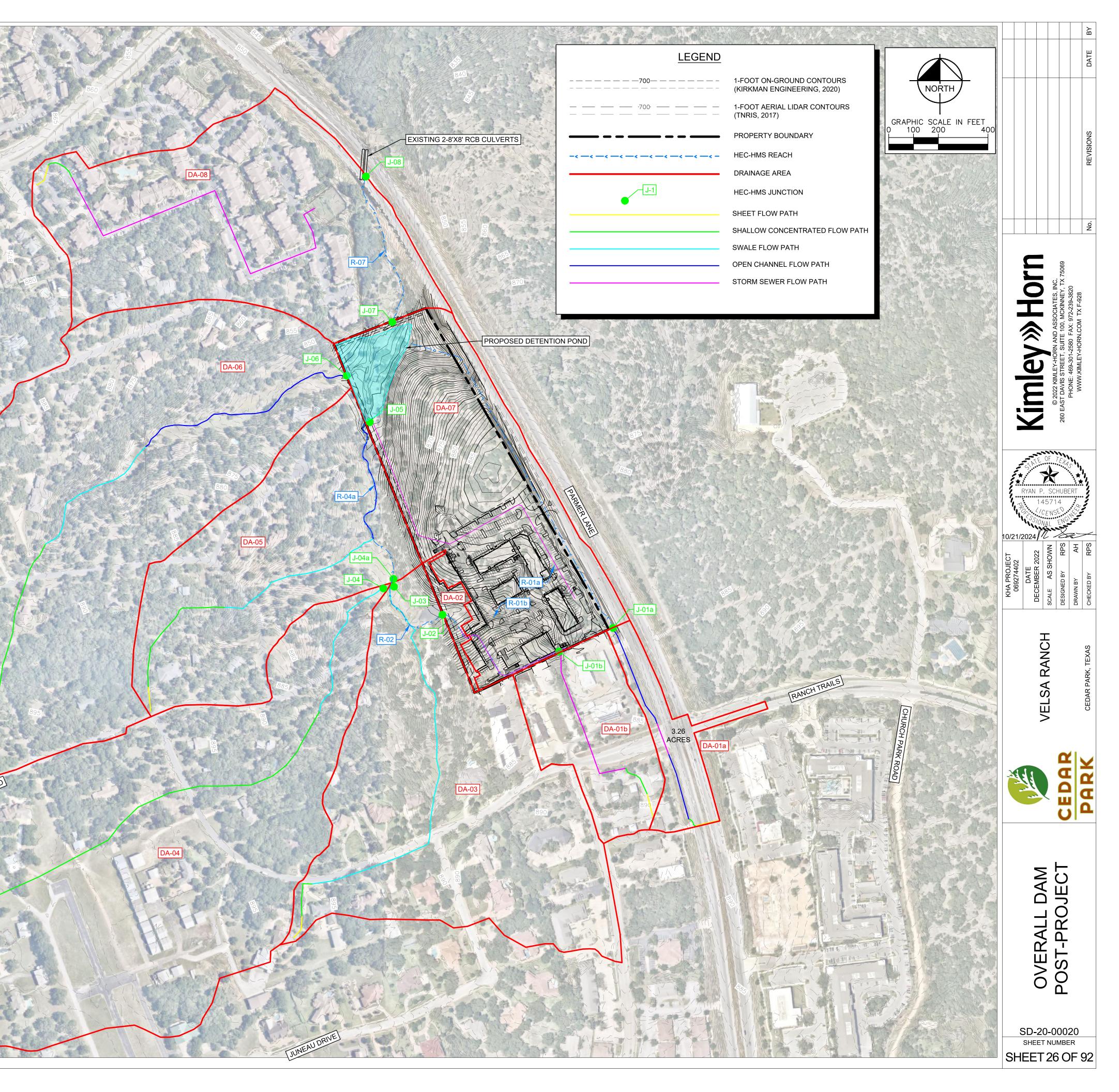
					CO THE R				DATE BY
				0	40' GRAPHIC SCALE 40'	80'			REVISIONS
				L	EGEND				2
				A-1 30.32 AC 37.542	AREA DESIGNATOR (C AREA IN ACRES Q100 FLOW IN CFS	FACTOR)			No.
					PROPERTY LINE				<u> </u>
					DRAINAGE DIVIDE			75069	
					FLOW DIRECTION		OLI		2
				- 721	PROPOSED 1-FOOT CO	ONTOUR	Ī	SOCIATES, I , MCKINNEY 972-239-382 M TX F-928	
				- 721 — — —	EXISTING 1-FOOT CON	ITOUR		UD ASS E 100, N FAX: 97 N COM	
								© 2022 KIMLEY-HORN AND ASSOCIATES, INC 260 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX PHONE: 469-301-2580 FAX: 972-239-3820 WWW KIMLEY-HORN COM TX F-928	
RUNOFF	TIME OF		RAINFALL	LE	COLLECTION	TOTAL FLOW	<u>e</u>	IMLEY-F S STREE E: 469-3(V.KIMLE	
COEFFICIENT "C"	CONCENTRATION (minutes)	INTENSITY "I"100 (in/hr)	INTENSITY "I"25 (in/hr)	Q100 (cfs)	POINT	Q25 (cfs)	M	2022 KI T DAVIS PHONE WWV	•
0.97	5	15.24 15.24	11.450 11.450	5.8 1.3	GRATE INLET	4.360 0.996		© EAST	
0.97	5	15.24	11.450	6.8	GRATE INLET	5.124		26(
0.97	5	15.24	11.450	4.9	GRATE INLET	3.690			
0.97	5	15.24 15.24	11.450 11.450	6.5 14.5	GRATE INLET	4.918 10.896	TE OF	TEL	
0.97	5	15.24	11.450	6.4	GRATE INLET	4.773			3,
0.97	5	15.24	11.450	8.9	GRATE INLET	6.706	RYAN P.	SCHUBERT	
0.97	5	15.24	11.450	19.9	GRATE INLET	14.967	145	714	
0.97	5	15.24 15.24	11.450 11.450	0.2 12.8	AREA DRAIN	0.147 9.615	170, ZICE	NSE	
0.97	5	15.24	11.450	0.1	AREA DRAIN	0.065	10/21/2024		
0.97	5	15.24	11.450	16.2	CURB INLET	12.179	· · · · ·	RPS AH	RPS
0.97	5	15.24	11.450	10.7	GRATE INLET	8.037	0.1ECT 402 E R 2022 R 2022		
0.97	5	15.24 15.24	11.450 11.450	73.6 22.3	LINE F Y-INLET	55.264 16.763	KHA PROJECT 069274402 DATE ECEMBER 202	? ≿	ΒΥ
0.97	5	15.24	11.450	14.0	OFFSITE	10.534	06927440 06927440 DECEMBER 2	DRAWN BY	CHECKED
0.76	5	15.24	11.450	13.7	AREA INLET	10.296		DE DE	<u> </u>
0.79	5 T	15.24 ime of Concentr	11.450 ation - Parmer I	3.7 8-4	SLOPED END TREATMENT	2.772			
	-	Sheet Flow n = 0.0 S (ft/ft) 0 L (ft) 1 P2 = 4	Shallow Co 015 pave 02 S (ft 00 L 03	ncentrated Flow d? no /ft) 0.02 (ft) 434			VELSA RANCH		CEDAR PARK, TEXAS
		L (ft) 1 P2 = 4	Shallow Col 015 pave 02 S (ft 00 L 03 T (min) = 3.68	ncentrated Flow d? no (ft) 0.02 (ft) 315			VELS	a	CEDA
BENCH	I MARK LIS	т			\bigcirc	1		A	R
COTTON S PAVING O EDGE OF		I ASPHALT			Q			CEL	D
	ATELY 50 T OF THE N F THE SUBJECT	FEET ORTHEAST			Know what's be Call befor				
"X" CUT S NORTHWES CONCRETE LINE OF LO SECTION S LOCATED A SOUTHWES	E SITE BENCHM SET WITH BOX STERN EDGE CURB ALONG T DT 1B, BREAKAN EVEN. THE BENG APPROXIMATELN ST OF THE S F THE SUBJECT	IARK IS AN ON THE OF A HE NORTH WAY PARK CHMARK IS (23 FEET OUTHEAST					L		
0.015 pa 0.02 S	Concentrated Flow ved? no (ħ/ħ) 0.02 L (ħ) 148						SD-20- SHEET N SHEET 2	-00020 NUMBER	92

Cedar Park Logo : xBrdr : x4erial2 12/2/2022 4:29 PM SCHUBERT, RYAN K:\AUS_CIVIL\0692 OVERALL DRAINA(IMAGES XREFS LAST SAVED PLOTTED BY DWG PATH DWG NAME

	Peak	Flow Compa Pre-	arison Table Post-	s (cfs)	
	Junction	Pre- Project [1]	Post- Project [2]	Difference	
	J-01a		Year 45	0	
	J-01b	94	94	0	
	J-02 J-03	228 386	8 201	-220 -185	
	J-04a J-05	695 859	529 713	-166 -145	man and the start for
	J-07	1,211	1,171	-40	
	J-08		1,265 ⁄ear	-51	
	J-01a J-01b	34 70	34 70	0	
	J-02 J-03	167 279	6 144	-161 -135	COLONIA
	J-04a	498	377	-121	
5	J-05 J-07	613 861	506 829	-107 -32	
	J-08	937 10- 1	896 /ear	-41	
	J-01a J-01b	27 56	27 56	0	
	J-02	129	4	-125	
	J-03 J-04a	215 380	110 286	-105 -94	
	J-05 J-07	465 652	384 623	-82 -29	
	J-08	709	669 ear	-40	
	J-01a	<mark>1</mark> 6	<mark>1</mark> 6	0	
	J-01b J-02	32 68	32 2	0 -66	
	J-03 J-04a	109 186	54 137	-55 -49	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	J-05 J-07	226 311	185 300	-41 -11	
	J-07	341	300	-17	
L'H J Sa	MA STA				
	F.M.F		L L	1-1-1	LESTER BURNER
		HETY		Jor Coli	
NY THE	NEXT		S A SS A	Chir	
	125-	523			
	T L	- ANT	RYTY	37hz	
		WILE	FX	~ //~k	
	- LAY		21-1	1º SR	
			الدوح		Min Carrowshill St
	K X Y				
to the second	1×->	S.F.	155745	Freis	
				ME I	
	ALL C			ALC C	
	X-1-1	John Marine	LEST?	STILL L	
Shenki	K (5/2)		2410	211 V L V	
	-136		2 NY IN		We HIM I HIVE THE ADDRESS
			MJ-JCK		No I MARIA
the second	- Kik	ALL	Little - Cr	MC-2-SI	
	1250 2	- T- TT	1-2-3-	1215	No 10 Coments
	1 Mun	0)11			
	× 2/5	1-21-6			
		R	D ANG		
	2 - 1 h	Port			
	1, 74				
				Lin-i	
2-2	NH SA				
XAND-Y			-27/2		
	175				
53-5-64	and the		23 7112		
	1:	- 1 5			
		A A			
1 Str	1 car			K	POD KYC
8				11	
	U		211	1	Lutrant and
			313	8/1.	
	11		211		
		6	11		Fill see White of the sea

VRHS

IAL PARKWAY



#### ATTACHMENT H

#### TEMPORARY SEDIMENT POND PLAN AND CALCULATION

A temporary sedimentation basin is designed to be provided during the early phases of construction since there are more than 10 acres of land disturbance proposed. These plans and calculations can be found in the Erosion Control Plans in the Civil Plans.

#### **ATTACHMENT I**

#### **INSPECTION AND MAINTENANCE FOR BMPs**

#### Silt Fence

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

#### **Construction Entrance**

- (1) Inspection should be made weekly or after each rainfall event and repair or replacement should be made promptly as needed by the contractor.
- (2) Inspect and realign dikes as needed to prevent gaps between sections.
- (3) Accumulated silt should be removed after each rainfall, and disposed of in a manner which will not cause additional siltation.
- (4) After the site is completely stabilized, the dikes and any remaining silt should be removed. Silt should be disposed of in a manner that will not contribute to additional siltation.

#### **Inlet Protection**

- (1) Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- (2) Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- (3) Check placement of device to prevent gaps between device and curb.
- (4) Inspect filter fabric and patch or replace if torn or missing.

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

#### Rock Berm

- (1) Inspection should be made weekly and after each rainfall by the responsible party. For installations in streambeds, additional daily inspections should be made.
- (2) Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt in an approved manner that will not cause any additional siltation.
- (3) Repair any loose wire sheathing.
- (4) The berm should be reshaped as needed during inspection.
- (5) The berm should be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
- (6) The rock berm should be left in place until all upstream areas are stabilized and accumulated silt removed.

# ATTACHMENT J

## SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION

If portions of the site will have a 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.

Records will be kept on the site of the dates when construction activities temporarily and permanently cease on portions of the site, and the dates when stabilization measures are initiated.

Permanent stabilization practices will be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Interim Soil Stabilization Schedule:

• Install silt fence and rock berm prior to all soil disturbing activities.

Permanent Soil Stabilization Schedule:

• Revegetate site as shown on plans after completion of all construction activities.

Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999
Shane Rotter
Environmental Project Planner.
Title - Owner/President/Other
of $(X D O T)$
Corporation/Partnership/Entity Name
have authorized Venkat Gudapur,
Print Name of Agent/Engineer
of VLS Properties 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.

Applicant's Signature	$\left  0 \right  \left  \right  \left  \right  \left  \right $ Date
`	
THE STATE OF §	
County of§	
BEFORE ME, the undersigned authority, on this day pers to me to be the person whose name is subscribed to the me that (s)he executed same for the purpose and consider	e foregoing instrument, and acknowledged to
GIVEN under my hand and seal of office on thisday	y of
NOTARY PUBLIC	
Typed or Printed Na	ime of Notary
MY COMMISSION	EXPIRES:

÷

	Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999	
1	Venkat Gudapuri	
	Print Name	· · · · · · · · · · · · · · · · · · ·
	Owner	1
	Title - Owner/President/Other	
of	VLS Properties LLC	3
	Corporation/Partnership/Entity Name	
have authorized	Ryan Schubert	
	Print Name of Agent/Engineer	
of	Kimley-Horn	
	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:

Diplean

Applicant's Signature

09/09/24 Date

THE STATE OF TEXAS §

County of _____ §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Venket nuslean</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 2th day of Septemar, 2014



PRARTHANA JAYA PRAKASH NARAYAN Notary Public, State of Texas Comm. Expires 04-05-2027 Notary ID 134292004

NOTARY PUBLIC rinted

MY COMMISSION EXPIRES: 12-05-2027

# **Application Fee Form**

Texas Commission on Environme Name of Proposed Regulated Entity Regulated Entity Location: <u>NW Con</u> Name of Customer: <u>VLS Properties</u> , Phone: <u>(512) - 337-0418</u> Custom Regulated Entity Reference Number Austin Regional Office (3373)	: <u>Velsa Ranch</u> ner of Parmer Lane ar <u>LLC</u> Contact Person ner Reference Number	: <u>Venkat Guda</u> (if issued):CN		5903327
🗌 Hays	Travis		🖂 Will	iamson
San Antonio Regional Office (3362	2)			
Bexar Comal	<ul> <li>Medina</li> <li>Kinney</li> </ul>		🗌 Uva	alde
Application fees must be paid by Commission on Environmental Que must be submitted with your fee	uality. Your canceled	check will serve	e as you	ur receipt. This form
<ul> <li>Austin Regional Office</li> <li>Mailed to: TCEQ - Cashier</li> <li>Revenues Section</li> <li>Mail Code 214</li> <li>P.O. Box 13088</li> <li>Austin, TX 78711-3088</li> <li>Site Location (Check All That App</li> </ul>	 	San Antonio Ro Overnight Deliv 12100 Park 35 Building A, 3rd Austin, TX 787 (512)239-0357	Very to: Circle Floor 753	Office TCEQ - Cashier
Recharge Zone	Contributing Zone		🗌 Trai	nsition Zone
Type of Plai	ו	Size		Fee Due
Water Pollution Abatement Plan Plan: One Single Family Resident			Acres	\$
Water Pollution Abatement Plan Plan: Multiple Single Family Resid			Acres	
Water Pollution Abatement Plan Plan: Non-residential	n, Contributing Zone	17.40	Acres	\$6,500
Sewage Collection System			L.F.	\$
Lift Stations without sewer lines			Acres	\$
Underground or Aboveground Sto	rage Tank Facility		Tanks	\$
Piping System(s)(only)			Each	\$
Exception			Each	\$
Extension of Time			Each	\$
1 0				

Signature: _ _ _ _ _ _ _ Date: _ <u>07/11/2024</u> Application Fee Schedule

## **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 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	\$1,500 \$3,000 \$4,000 \$6,500 \$8,000 \$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 10 < 40 40 < 100 ≥ 100	\$3,000 \$4,000 \$5,000 \$6,500 \$8,000 \$10,000

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

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

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

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

#### **Exception Requests**

Project	Fee
Exception Request	\$500

#### **Extension of Time Requests**

Project	Fee
Extension of Time Request	\$150

# **Check Payable to the "Texas Commission on Environmental Quality"**

# **Core Data Form**

Additional Forms TCEQ-10400 (Rev. 04-15)



# **TCEQ** Core Data Form

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

### **SECTION I: General Information**

		<b>sion</b> (If other is a						,							
New Per	rmit, Regist	ration or Author	ization (Core	Data Fo	orm sho	uld be	subm	nitted v	vith the	progra	ат ар	plicatio	on.)		
🗌 Renewa	l (Core Dat	a Form should l	be submitted v	vith the	renewa	l form	)		Other						
2. Customer	Reference	e Number <i>(if is</i> s	sued)	Follow	Follow this link to search <b>3. Regulated Entity R</b>			ty Re	ferenc	e Number (	if issued)				
CN			<u>l or RN r</u> entral Re			RN									
<b>SECTION</b>	II: Cus	stomer Inf	ormation												
4. General C	ustomer Ir	formation	5. Effective	e Date f	or Cus	tomer	· Infor	matio	n Upda	ates (m	nm/dc	/yyyy)	5/20/2	2021	
New Cust				Update							_	•	0	Entity Ownership	
-	-	ne (Verifiable wi													
The Custo	mer Nam	ne submitted	here may	be upc	dated	auto	matio	cally	based	d on v	vhat	is cu	rrent and	active with the	
Texas Sec	retary of	State (SOS)	or Texas C	Compti	roller	of Pı	ıblic	Acco	ounts	(CPA	).				
6. Customer	Legal Nan	ne (If an individua	al, print last narr	ne first: e	g: Doe,	John)		<u>I</u>	f new C	Sustome	er, en	ter prev	ious Custom	<u>er below:</u>	
VLS Prop	erties, L	LC						I	Previo	us Cus	stome	er			
7. TX SOS/C	PA Filing N	lumber	8. TX State	Tax ID	Tax ID (11 digits)			9	. Fede	ral Ta	<b>k ID</b> (	digits)	10. DUN	10. DUNS Number (if applicable)	
11. Type of C	Customer:	Corporat	ion			ndivid	ual		P	artners	ship: [	_ Gene	ral 🗌 Limited		
Government:	City C	ounty 🗌 Federal [	] State 🗌 Othe	r		Sole P	roprie	torship		] Othe	er:				
12. Number											ently		d and Opera	ited?	
⊠ 0-20 □	21-100	101-250	251-500		501 an	· ·			⊠ Yes			No			
14. Custome	r Role (Pro	posed or Actual)	– as it relates to	o the Reg	gulated E	Entity li	isted or	n this fo	orm. Ple	ase che	eck or	e of the	following		
⊠Owner		🗌 Opera			⊠ Ov		•			_					
	nal License	e 🗌 Respo	onsible Party		∐ Vo	luntar	y Clea	anup A	pplicar	nt L	Ot	her:			
	3109 K	lenai Drive,	Unit 109												
15. Mailing Address:															
/ lauloool	City	Cedar Park		S	tate	ΤX		ZIP	780	513			ZIP + 4	2540	
16. Country	Mailing Inf	ormation (if outs	ide USA)	1			17. E	E-Mail	Addre	SS (if a	oplicat	le)			
NA	-		,				vgu	ıdapı	ıri@g	gmail	.con	1			
18. Telephor	ne Number			19. Ex	xtensio	on or (	0	1					er (if applica	ble)	
(512)33	7-0418			0						(		)	-		
<b></b> ,,															

### **SECTION III: Regulated Entity Information**

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

 ☑ New Regulated Entity
 □ Update to Regulated Entity Name
 □ Update to Regulated Entity Information

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

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

Velsa Ranch

23. Street Address of	N/A						
the Regulated Entity:							
(No PO Boxes)	City	Cedar Park	State	TX	ZIP	78613	ZIP + 4
24. County	William	son County					

#### Enter Physical Location Description if no street address is provided.

<b>25. Description to</b> <b>Physical Location:</b> North of the northwest corner of Parmer Lane and Kenai Drive, Cedar Park, TX										
26. Nearest City						State		Ne	arest ZIP Code	
Cedar Park			ΤX		78	3613				
27. Latitude (N) In Decin	nal:	30.524513	}	28. L	ongitude (	W) In Deci	mal:	97.7762	39	
Degrees	Minutes		Seconds	Degre	es	Mi	nutes		Seconds	
30		31	28.24		97			46	34.46	
29. Primary SIC Code (4 digits)       30. Secondary SIC Code (4 digits)       31. Primary NAICS Code (5 or 6 digits)       32. Secondary NAICS Code (5 or 6 digits)							AICS Code			
5399				455	455219					
33. What is the Primary	Business o	of this entity?	(Do not repeat the SI	C or NAICS des	cription.)					
Retail, Restaurant,	and Offic	ce Use								
				3109 Kena	i Drive, Ur	nit 109				
34. Mailing										
Address:										
	City	Cedar Par	k State	ТХ	ZIP	78	613	ZIP + 4	2540	
35. E-Mail Address	ddress: vgudaprui@gmail.com									
36. Teleph	one Numbe	r	37. Extensi	on or Code		38.	Fax Nu	mber <i>(if app</i>	licable)	
( 512 )	337-418						(	) -		

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

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

### **SECTION IV: Preparer Information**

40. Name: Ryan Schubert, P.E.	41. Title: Civil Engineer		
42. Telephone Number 43. Ext./Code 44. Fax Number	45. E-Mail Address		
(512) 551-1846 ( ) -	Ryan.Schubert@Kimley-Horn.com		

### **SECTION V: Authorized Signature**

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

Company:	Kimley-Horn	Job Title:	Project Engineer		
Name (In Print):	): Ryan Schubert, P.E.			Phone:	( 512 ) 551-1846
Signature:	fedare.			Date:	10/22/24