

TCEQ – CONTRIBUTING ZONE PLAN MODIFICATION

**JAMES AVERY AUSTIN HQ2/
CEDAR PARK INDUSTRIAL
CEDAR PARK, TEXAS 78641**

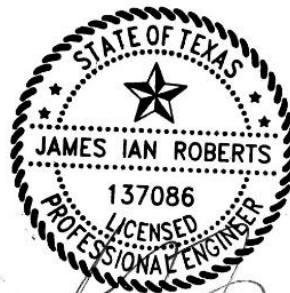
Prepared By:

Kimley»Horn

Texas Registration #928

1251 Sadler Drive
Building K, Suite 3200
San Marcos, Texas 78666

September 2025



9/02/2025

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name:					2. Regulated Entity No.: 110848983				
3. Customer Name: HL Fund III Scottsdale Crossing LP					4. Customer No.:				
5. Project Type: (Please circle/check one)	New		<u>Modification</u>			Extension		Exception	
6. Plan Type: (Please circle/check one)	WPAP	<u>CZP</u>	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential		<u>Non-residential</u>			8. Site (acres):		9.1735	
9. Application Fee:	\$5,000		10. Permanent BMP(s):				Batch Detention WQ Pond		
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):				N/A		
13. County:	Williamson		14. Watershed:				South 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.)	—	—	<u>X</u>
Region (1 req.)	—	—	<u>X</u>
County(ies)	—	—	<u>X</u>
Groundwater Conservation District(s)	<u>—</u> Edwards Aquifer Authority <u>—</u> Barton Springs/ Edwards Aquifer <u>—</u> Hays Trinity <u>—</u> Plum Creek	<u>—</u> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<u>—</u> Austin <u>—</u> Buda <u>—</u> Dripping Springs <u>—</u> Kyle <u>—</u> Mountain City <u>—</u> San Marcos <u>—</u> Wimberley <u>—</u> Woodcreek	<u>—</u> Austin <u>—</u> Bee Cave <u>—</u> Pflugerville <u>—</u> Rollingwood <u>—</u> Round Rock <u>—</u> Sunset Valley <u>—</u> West Lake Hills	<u>—</u> Austin <u>X</u> Cedar Park <u>—</u> Florence <u>—</u> Georgetown <u>—</u> Jerrell <u>—</u> Leander <u>—</u> Liberty Hill <u>—</u> Pflugerville <u>—</u> Round Rock

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

Ian Roberts, P.E.

Print Name of Customer/Authorized Agent

09/22/2025

Signature of Customer/Authorized Agent

Date

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

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

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: Ian Roberts

Date: 09/02/2025

Signature of Customer/Agent:



Project Information

- Current Regulated Entity Name: HL Fund III Scottsdale Crossing LP
Original Regulated Entity Name: James Avery Austin HQ2
Assigned Regulated Entity Number(s) (RN): RN110848983
Edwards Aquifer Protection Program ID Number(s): 11001709
☐ The applicant has not changed and the Customer Number (CN) is: _____
☒ The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
- ☒ **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.
- A modification of a previously approved plan is requested for (check all that apply):

- ☒ Any physical or operational modification of any best management practices or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
- ☐ Any change in the nature or character of the regulated activity from that which was originally approved;
- ☐ A change that would significantly impact the ability to prevent pollution of the Edwards Aquifer and hydrologically connected surface water; or
- ☒ Any development of land previously identified in a contributing zone plan as undeveloped.

4. ☒ **Summary of Proposed Modifications** (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

<i>CZP Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Acres	<u>9.01</u>	<u>17.42</u>
Type of Development	<u>Non-Residential</u>	<u>Non-Residential</u>
Number of Residential Lots	<u>0</u>	<u>0</u>
Impervious Cover (acres)	<u>3.99</u>	<u>9.22</u>
Impervious Cover (%)	<u>44.28</u>	<u>53</u>
Permanent BMPs	<u>Batch Detention</u>	<u>Batch Detention</u>
Other	<u>N/A</u>	<u>N/A</u>
<i>AST Modification</i>		
<i>Summary</i>		
Number of ASTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>
<i>UST Modification</i>		
<i>Summary</i>		
Number of USTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>

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

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

6. ☒ **Attachment C: Current Site Plan of the Approved Project.** A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
- ☐ The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
- ☒ The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
- ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
- ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
7. ☐ 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. ☒ 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

November 22, 2019

Mr. Howell Ridout
James Avery Craftsman, Inc.
P.O. Box 291248
Kerrville, TX 78029

Re: Edwards Aquifer, Williamson County

NAME OF PROJECT: James Avery Austin HQ 2; located NE of Scottsdale Dr. and US 183A Toll Rd., Cedar Park, Texas

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

Edwards Aquifer Protection Program ID No. 11001709; Regulated Entity No. RN110848983

Dear Mr. Ridout:

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 James Avery Craftsman, Inc. on September 6, 2019. Final review of the CZP was completed after additional material was received on October 10 and November 6, 2019. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 9.01 acres. It will include an office building, parking lots, sidewalks, turn lane, and associated appurtenances. The impervious cover will be 3.99 acres (44.28 percent). Project wastewater will be disposed of by conveyance to the existing Brushy Creek Wastewater Treatment Plant.

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, a batch detention basin, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 3,473 pounds of TSS generated from the 3.99 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. All permanent pollution abatement measures shall be operational prior to occupancy of the facility.
- 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 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 ensure 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 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 Ms. Cheyenne Connors of the Edwards Aquifer Protection Program of the Austin Regional Office at 512-339-2929.

Sincerely,



Robert Sadlier, Section Manager
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality

RCS/cpc

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

**Change in Responsibility for Maintenance
on Permanent Best Management Practices and Measures**

The applicant is no longer responsible for maintaining the permanent best management practice (BMP) and other measures. The project information and the new entity responsible for maintenance is listed below.

Customer: _____

Regulated Entity Name: _____

Site Address: _____

City, Texas, Zip: _____

County: _____

Approval Letter Date: _____

BMPs for the project: _____

New Responsible Party: _____

Name of contact: _____

Mailing Address: _____

City, State: _____ Zip: _____

Telephone: _____ FAX: _____

Signature of New Responsible Party

Date

I acknowledge and understand that I am assuming full responsibility for maintaining all permanent best management practices and measures approved by the TCEQ for the site, until another entity assumes such obligations in writing or ownership is transferred.

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.



September 2, 2025

TCEQ
P.O. Box 13087
Austin, TX 78711-3087

Narrative of Proposed Modification to Approved CZP

To Whom It May Concern:

We are proposing to make modifications to the approved CZP, dated November 22, 2019. The approved project description is as follows:

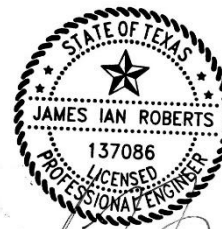
The proposed commercial project will have an area of approximately 9.01 acres. It will include an office building, parking lots, sidewalks, turn lane, and associated appurtenances. The impervious cover will be 3.99 acres (44.28 percent). Project wastewater will be disposed of by conveyance to the existing Brushy Creek Wastewater Treatment Plant.

No previous modifications have been made. We are developing the site (9.1735 acres) directly north of the existing project. Our development will include two industrial buildings, parking, roadways, sidewalks, turn lane, and associated appurtenances. We will be expanding the existing batch detention pond to accommodate the additional impervious cover (5.76 acres added). We have included an RG-348 sheet for our site, and it is included with this package. The existing pond will be increased by 21,375 CF. It is currently sized for 24,507 CF. The updated volume will be 46,944 CF.

No further changes will be made to the approved CZP outside of the enlarged BMP. Should you have any questions or require additional information, please feel free to contact me directly at (512) 572-2899 or ian.roberts@kimley-horn.com.

Sincerely,

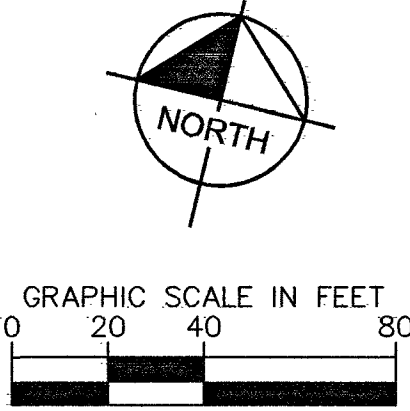
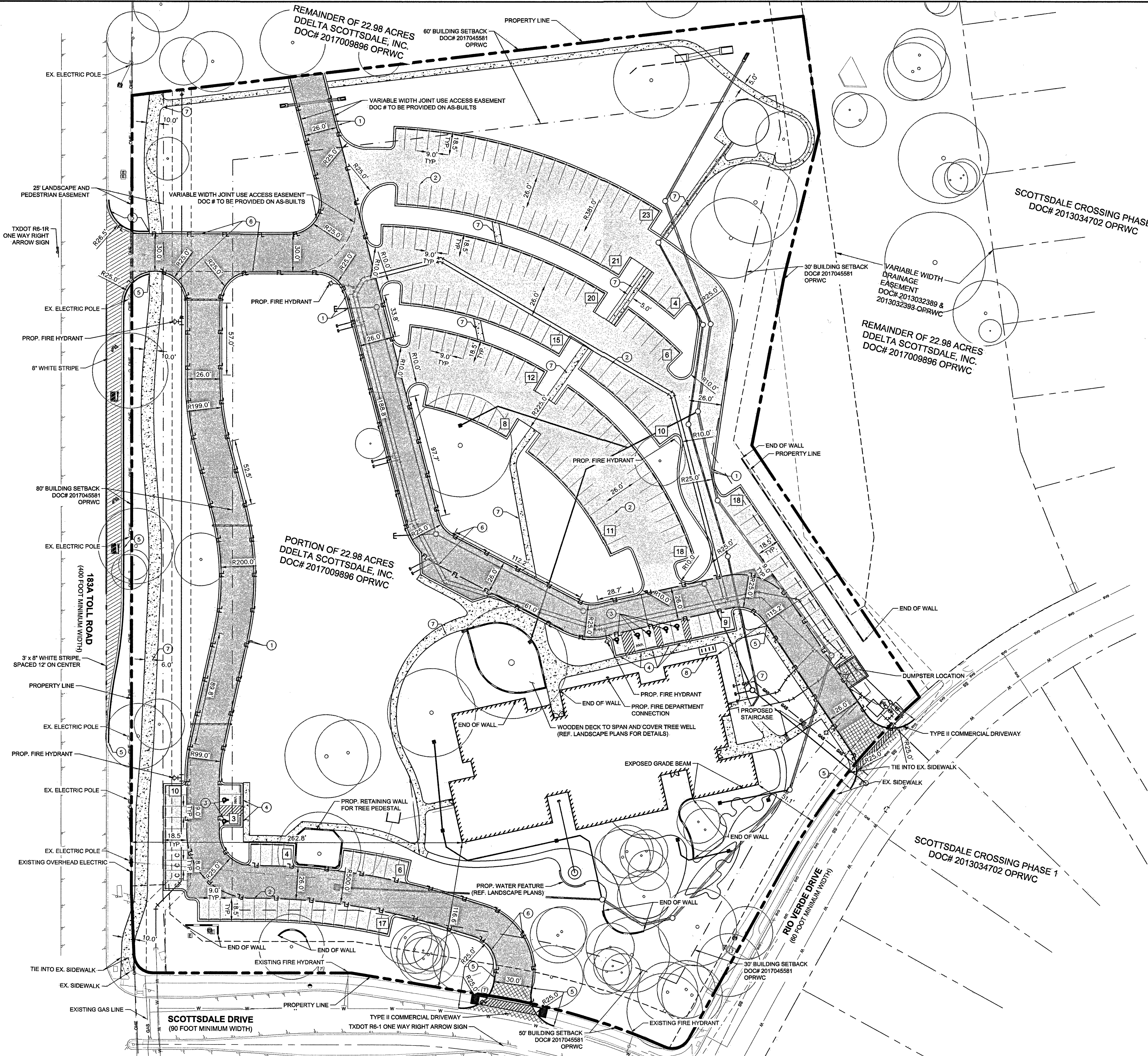
Ian Roberts, P.E.
Project Manager
Kimley-Horn and Associates, Inc.



07/29/2025

ATTACHMENT C – Approved James Avery Site Plan

Plotted By: Roberts, Ian Date: January 21, 2020 09:59:01am File Path: K:\SAU-Civil\086626003 James Avery Austin HQ2\Coa\PlanSheets\JC-Dim Control and PP.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

1	PROPOSED 18" RIBBON CURB AND GUTTER
2	4" PAINTED WHITE STRIPE
3	PAINTED ACCESSIBLE PARKING SYMBOL
4	ACCESSIBLE PARKING SIGN
5	PROPOSED 6" CONCRETE CURB AND GUTTER
6	FIRE LANE STRIPING
7	CONSTRUCT CONCRETE SIDEWALK
8	PROPOSED BIKE RACK
9	PARKING STALL COUNT
10	HEAVY DUTY ASPHALT PAVEMENT - FIRE LANE (7,135 SY) (REF. GEOTECH REPORT FOR PAVEMENT SECTION DESIGN)
11	LIGHT DUTY ASPHALT PAVEMENT - PARKING AREA (5,470 SY) (REF. GEOTECH REPORT FOR PAVEMENT SECTION DESIGN)
12	HEAVY DUTY CONCRETE PAVEMENT (REF. GEOTECH REPORT FOR PAVEMENT SECTION DESIGN)
13	ASPHALT PAVING TO MATCH EXISTING 183A SECTION (510 SY) (REF. SHEET 26 FOR PAVEMENT SECTION DETAIL)
14	4" CONCRETE SIDEWALK (1,825 SY)
15	PROPERTY LINE
16	EXISTING TREE TO REMAIN
17	BUILDING SETBACK
18	PROPOSED DRY STACK WALL

SITE DATA TABLE		
	REQUIRED	PROVIDED
ZONING	N/A	GB
USE	N/A	OFFICE
LOT AREA (SF)	20,000	392,040
LOT WIDTH	100'	537'
LOT DEPTH	200'	697'
BUILDING HEIGHT	100'	34.5'
FRONT SETBACK	80'	163'
INTERIOR SIDE SETBACK	30' / 60'	115' / 496'
STREET SIDE SETBACK	30' / 50'	51' / 117'

ADA PARKING		BICYCLE PARKING	
REQUIRED	PROVIDED	REQUIRED	PROVIDED
7	7	9	10

STANDARD PARKING			
BUILDING AREA	PARKING REQUIREMENT	TOTAL REQUIRED	PROVIDED
38,595 sf	General Office: 1 per 300sf	129	211
			STANDARD COMPACT*
			5

* NO MORE THAN 10% OF TOTAL REQUIRED PARKING CAN BE COMPACT

- SITE PLAN NOTES:**
1. LIGHT SOURCES SHALL BE COMPLETELY CONCEALED WITHIN OPAQUE HOUSINGS AND SHALL NOT BE VISIBLE FROM ADJACENT STREETS OR PROPERTIES. ALL EXTERIOR LIGHTING FIXTURES SHALL BE FULL CUT-OFF TYPE FIXTURES. LIGHTING FIXTURES SHALL BE NO MORE THAN TWENTY-FIVE (25) FEET, OR 15 FEET WITHIN 50' OF A RESIDENTIAL USE, IN HEIGHT AS MEASURED FROM ADJACENT, FINISHED GRADE.
 2. ALL PARKING STALLS SHALL CONTAIN 6' LONG PRECAST CONCRETE WHEEL STOPS. SEE DETAIL ON SHEET 20.
 3. ALL MECHANICAL EQUIPMENT ASSOCIATED WITH BUILDING OPERATIONS AND IS EITHER MOUNTED ON THE GROUND, ROOF, OR DIRECTLY TO THE BUILDING SHALL BE FULLY SCREENED FROM VIEW OF ADJACENT PROPERTIES AND RIGHT-OF-WAY. ALL SCREENING SHALL MEET THE STANDARDS REFERENCED IN SECTION 11.03.154.B.1.C

APPROVED

JAN 22 2020

PLANNING DEPT.
CITY OF CEDAR PARK

BENCHMARKS

CITY OF CEDAR PARK GPS MONUMENT 18:
A 3" BRASS DISK IN CONCRETE STANDING ON THE WEST SIDE OF US 183, NORTH OF MAPLE LANE, ON THE WEST SIDE OF GARNER PARK LIFT STATION LOOKING EAST.
EASTING = 3061861
NORTHING = 10168622
ELEVATION = 969.845' (NAVD '88)

Kimley»Horn

2600 VIA FORTUNA, TERRACE I, SUITE 300
AUSTIN, TX 78746
PHONE: 512-646-2237
WWW.KIMLEY-HORN.COM
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TBE Firm No. 928

STATE OF TEXAS
LUKE W. CARAWAY
125677
LICENSED PROFESSIONAL ENGINEER
01/08/2019

KHA PROJECT
086626003

DATE
JANUARY 2020

SCALE: AS SHOWN

DESIGNED BY: IR

DRAWN BY: IR, AW

CHECKED BY: LWC

SITE AND PAVING PLAN

**JAMES AVERY
AUSTIN HQ2**

CITY OF CEDAR PARK
WILLIAMSON COUNTY, TEXAS

SHEET NUMBER
11 OF 38

SD-19-00020

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: Ian Roberts, P.E.

Date: 7/29/2025

Signature of Customer/Agent:



Regulated Entity Name: Cedar Park Industrial

Project Information

1. County: Williamson
2. Stream Basin: San Gabriel River Sub Basin
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

Contact Person: Jon Lueders

Entity: HL Fund III Scottsdale Crossing LP

Mailing Address: 5950 Berkshire Ln #STE 900

City, State: Dallas, Texas

Telephone: (972) 241-8300

Email Address: jlueders@holtlunsford.com

Zip: 75225

Fax: _____

5. Agent/Representative (If any):

Contact Person: Ian Roberts, P.E.

Entity: Kimley-Horn and Associates, Inc.

Mailing Address: 1251 Sadler Drive, Building K, Suite 3200

City, State: San Marcos, TX

Zip: 78666

Telephone: 512-572-2899

Fax: _____

Email Address: ian.roberts@kimley-horn.com

6. Project Location:

- ☒ The project site is located inside the city limits of Cedar Park.
- ☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
- ☐ The project site is not located within any city's limits or ETJ.

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

6400 183A Toll Rd, Leander, TX, 78641.

8. ☒ **Attachment A - Road Map.** A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

9. ☒ **Attachment B - USGS Quadrangle Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:

- ☒ Project site boundaries.
- ☒ USGS Quadrangle Name(s).

10. ☒ **Attachment C - Project Narrative.** A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

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

11. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site

- ☐ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☒ Undeveloped (Undisturbed/Not cleared)
☐ Other: _____

12. The type of project is:

- ☐ Residential: # of Lots: _____
☐ Residential: # of Living Unit Equivalents: _____
☐ Commercial
☒ Industrial
☐ Other: _____

13. Total project area (size of site): 9.1735 Acres

Total disturbed area: 9.4967 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

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
Structures/Rooftops	107,395.74	÷ 43,560 =	2.47
Parking	25,529.58	÷ 43,560 =	0.59
Other paved surfaces	117,986.13	÷ 43,560 =	2.7
Total Impervious Cover	250,911.45	÷ 43,560 =	5.76

Total Impervious Cover 5.76 ÷ **Total Acreage** 9.1735 X 100 = 62.79% **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:

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

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

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

20. Right of Way (R.O.W.):

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

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

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

21. Pavement Area:

Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

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

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

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

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

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

☒ N/A

26. Wastewater will be disposed of by:

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

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

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

☒ Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the Brushy Creek Regional (name) Treatment Plant. The treatment facility is:

☒ 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

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
1			
2			
3			
4			
5			

Total x 1.5 = _____ Gallons

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

5 of 11

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

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

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

Table 3 - Secondary Containment

<i>Length (L)(Ft.)</i>	<i>Width(W)(Ft.)</i>	<i>Height (H)(Ft.)</i>	<i>L x W x H = (Ft3)</i>	<i>Gallons</i>

Total: _____ Gallons

30. Piping:

- ☐ All piping, hoses, and dispensers will be located inside the containment structure.
- ☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
- ☐ The piping will be aboveground
- ☐ The piping will be underground

31. ☐ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: _____.

32. ☐ **Attachment H - AST Containment Structure Drawings.** A scaled drawing of the containment structure is attached that shows the following:

- ☐ Interior dimensions (length, width, depth and wall and floor thickness).
- ☐ Internal drainage to a point convenient for the collection of any spillage.
- ☐ Tanks clearly labeled
- ☐ Piping clearly labeled
- ☐ Dispenser clearly labeled

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

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

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

Site Plan Requirements

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

34. ☒ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 40'.
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): FIRM Panel NO. 48491C 0462F, Williamson County, Texas and Incorporated Areas (Effective date December 20, 2019)..
36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
- ☒ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.
38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
39. ☒ Areas of soil disturbance and areas which will not be disturbed.
40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41. ☒ Locations where soil stabilization practices are expected to occur.
42. ☐ Surface waters (including wetlands).
☒ N/A
43. ☒ Locations where stormwater discharges to surface water.
☐ There will be no discharges to surface water.
44. ☐ Temporary aboveground storage tank facilities.
☒ Temporary aboveground storage tank facilities will not be located on this site.

45. ☐ Permanent aboveground storage tank facilities.
☒ Permanent aboveground storage tank facilities will not be located on this site.
46. ☒ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

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

47. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☐ N/A
48. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____.
☐ N/A
49. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.
☐ N/A
50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.
☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.
☒ The site will not be used for low density single-family residential development.

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

- ☐ **Attachment I - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
- ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ☒ The site will not be used for multi-family residential developments, schools, or small business sites.

52. ☒ **Attachment J - BMPs for Upgradient Stormwater.**

- ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- ☒ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. ☒ **Attachment K - BMPs for On-site Stormwater.**

- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.

54. ☐ **Attachment L - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.

☒ N/A

55. ☒ **Attachment M - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are

attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

☐ N/A

56. ☒ **Attachment N - Inspection, Maintenance, Repair and Retrofit Plan.** A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:

- ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
- ☒ Signed by the owner or responsible party
- ☒ Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
- ☒ Contains a discussion of record keeping procedures

☐ N/A

57. ☐ **Attachment O - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

☒ N/A

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

☐ N/A

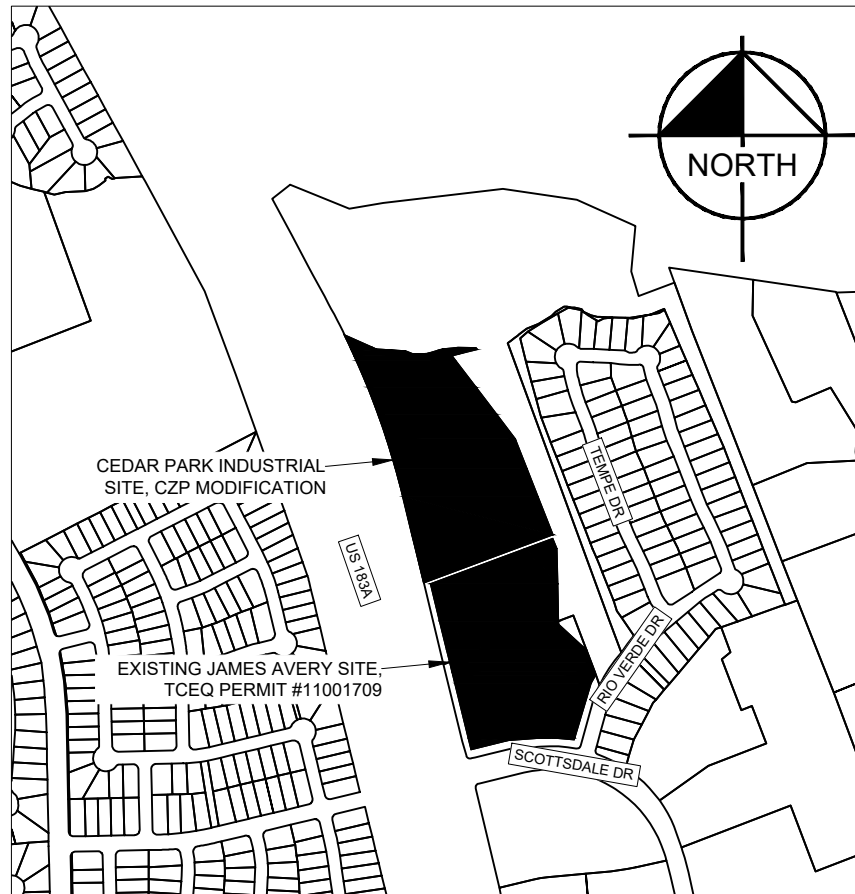
Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

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

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

Administrative Information

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



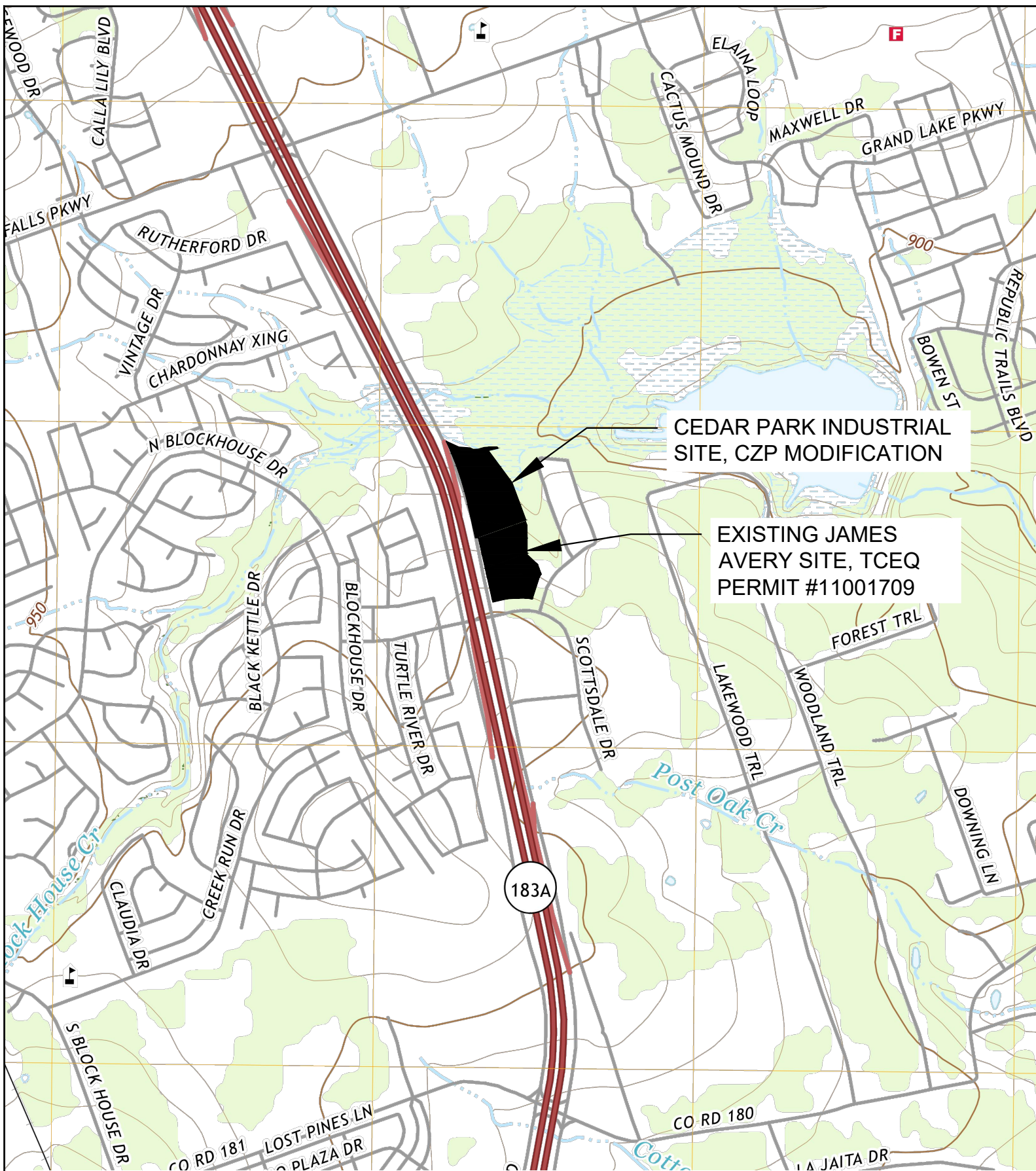
VICINITY MAP

N.T.S.

DIRECTIONS FROM TCEQ HEADQUARTERS TO PROJECT SITE

1. HEAD SOUTH TOWARD PARK 35 CIR
2. TURN RIGHT ONTO PARK 35 CIR
3. TURN RIGHT ONTO S IH 35 FRONTAGE RD
4. TURN RIGHT ONTO E BRAKER LN
5. IN 4.6 MILES TURN RIGHT ONTO RESEARCH BLVD
6. TAKE THE RAMP ONTO US-183 N
7. FOLLOW US-183 N FOR 6.1 MILES
8. CONTINUE ONTO ROUTE 183A N FOR 5.1 MILES
9. TAKE THE SCOTTSDALE DR EXIT
10. TURN RIGHT TOWARD SCOTTSDALE DR
11. THE SITE IS NORTH OF THE MEDIAN ON SCOTTSDALE DR.
12. MAKE A U-TURN AT RIO VERDE DR FOR SITE ACCESS

JAMES AVERY AUSTIN HQ2/ CEDAR PARK INDUSTRIAL



CEDAR PARK INDUSTRIAL
SITE, CZP MODIFICATION

EXISTING JAMES
AVERY SITE, TCEQ
PERMIT #11001709

LEGEND

CONSTRUCTION SITE, 18.1835 ACRES

SHEET NUMBER

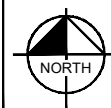
B

DATE	08/04/2025
DESIGN	DJS
DRAWN	DJS
CHECKED	JIR
KHA NUMBER	068181001

ATTACHMENT B - USGS MAP
CEDAR PARK QUADRANGLE

JAMES AVERY
AUSTIN HQ2/ CEDAR
PARK INDUSTRIAL

CITY OF CEDAR PARK
WILLIAMSON COUNTY, TEXAS



Kimley»Horn

1251 SADLER DRIVE, BUILDING K, SUITE 3200, SAN MARCOS, TX 78666
PHONE: (512) 572-2899
WWW.KIMLEY-HORN.COM
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TBP# Firm No. 928

ATTACHMENT C – Project Description

We are developing the site (9.1735 acres) directly north of the existing project. Our development will include two industrial buildings, parking, roadways, sidewalks, turn lane, and associated appurtenances. We will be expanding the existing batch detention pond to accommodate the additional impervious cover (5.76 acres added). We have included an RG-348 sheet for our site, and it is included with this package. The existing pond will be increased by 21,375 CF. It is currently sized for 24,507 CF. The updated volume will be 46,944 CF.

ATTACHMENT D – Factors Affecting Water Quality

Factors that could affect water quality during construction include; oil, gas, and construction material (i.e. asphalt, concrete, etc.). After construction, oil and gas from vehicles, fertilizers, and pesticides may affect surface and groundwater quality.

ATTACHMENT E – Volume and Character of Stormwater

Cedar Park Industrial is a proposed industrial development located on the northeast corner of Scottsdale Rd and Toll road 183A north of the existing development. The site is within the full purpose city limits of the City of Cedar Park, Texas, and is entirely within the Edwards Aquifer Contributing Zone. See below for proposed runoff calculations.

Pre Construction:

D.A.	Drainage	TOTAL I.C.	Coeff	Coeff	Coeff	TOTAL	Q₂₅	Q₁₀₀
Number	Area (Ac)	(%)	Imp.	Perv.	Comp.	T_c (Min.)	(cfs)	(cfs)
DA1	2.89	7.3%	0.97	0.49	0.53	5.65	17.89	23.40
DA2	6.29	17%	0.97	0.49	0.57	5.73	42.40	55.45

Post Construction:

D.A.	Drainage	TOTAL I.C.	Coeff	Coeff	Coeff	TOTAL	Q₂₅	Q₁₀₀
Number	Area (Ac)	(%)	Imp.	Perv.	Comp.	T_c (Min.)	(cfs)	(cfs)
DA1	0.91	4.9%	0.97	0.49	0.51	5.0	5.51	7.21
DA2	8.26	71%	0.97	0.49	0.83	5.81	77.59	101.38

**ATTACHMENT F – Suitability Letter from Authorized Agent
(if OSSF is proposed)**

N/A

No on-site sewage facilities are proposed with this project.

ATTACHMENT G – Alternative Secondary Containment Methods

N/A

ATTACHMENT H – AST Containment Structure Drawings

N/A

ATTACHMENT I – 20% or Less Impervious Cover

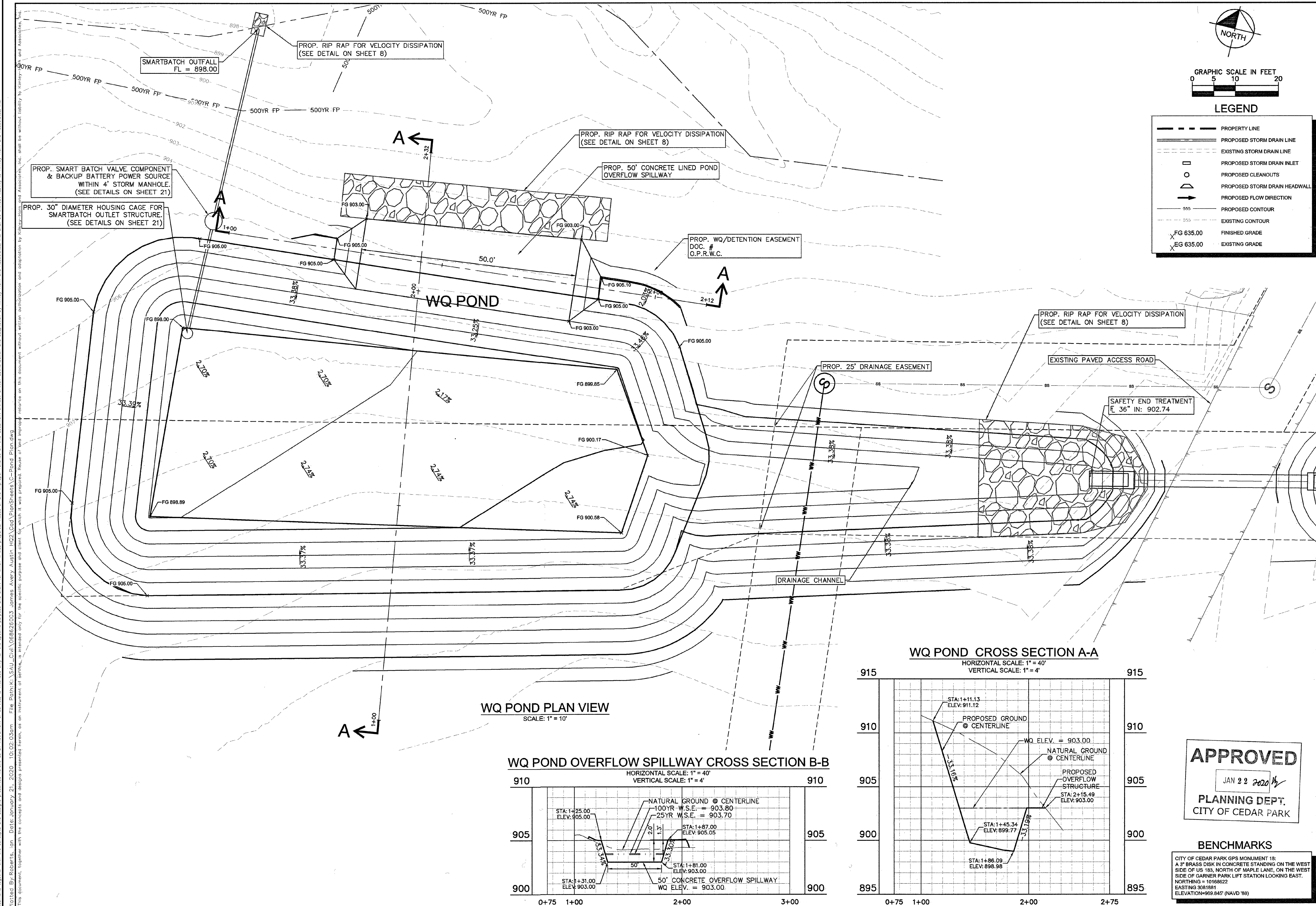
N/A

ATTACHMENT J – BMPs for Upgradient Stormwater

The previous CZP for James Avery Austin HQ2 constructed a batch detention pond to accommodate their 9.01-acre site. No stormwater from their site drains through our developed area, but it drains along our plan North property boundary through an existing channel which leads to the pond. The existing batch detention pond is being expanded to accommodate our development.

The next sheet shows the James Avery Austin HQ2 approved plans for the design of the batch detention pond.

Printed By: Jones, Dean Date: August 29, 2025 09:44:07am File Path: K:\SMA_Civil\068181001-Cedar Park Industrial\QoA\PlanSheets\C-Water Quality Plan.dwg
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Plotted By: Roberts, Ian Date: January 21, 2020 10:02:03am File Path: K:\S&U_Civil\068626003-James Avery Austin HQ2\QoA\PlanSheets\C-Pond Plan.dwg
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2600 VIA FORTUNA, TERRACE I, SUITE 300
AUSTIN, TX 78745
PHONE: 512-572-2899
WWW.KIMLEY-HORN.COM
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TPE Firm No. 928

KHA PROJECT
068626003
DATE
JANUARY 2020
SCALE: AS SHOWN
DESIGNED BY: JR
DRAWN BY: JR, AW
CHECKED BY: LWC

WQ POND PLAN

**JAMES AVERY
AUSTIN HQ2**
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TEXAS

SHEET NUMBER
22 OF 38
SD-19-00020

REVISIONS		DATE	BY
No.			

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TEXAS REGISTERED ENGINEERING FIRM F-928

**APPROVED JAMES
AVERY WATER
QUALITY PLAN**

**CEDAR PARK
INDUSTRIAL**
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TX 78641

REVISIONS		DATE	BY
No.			

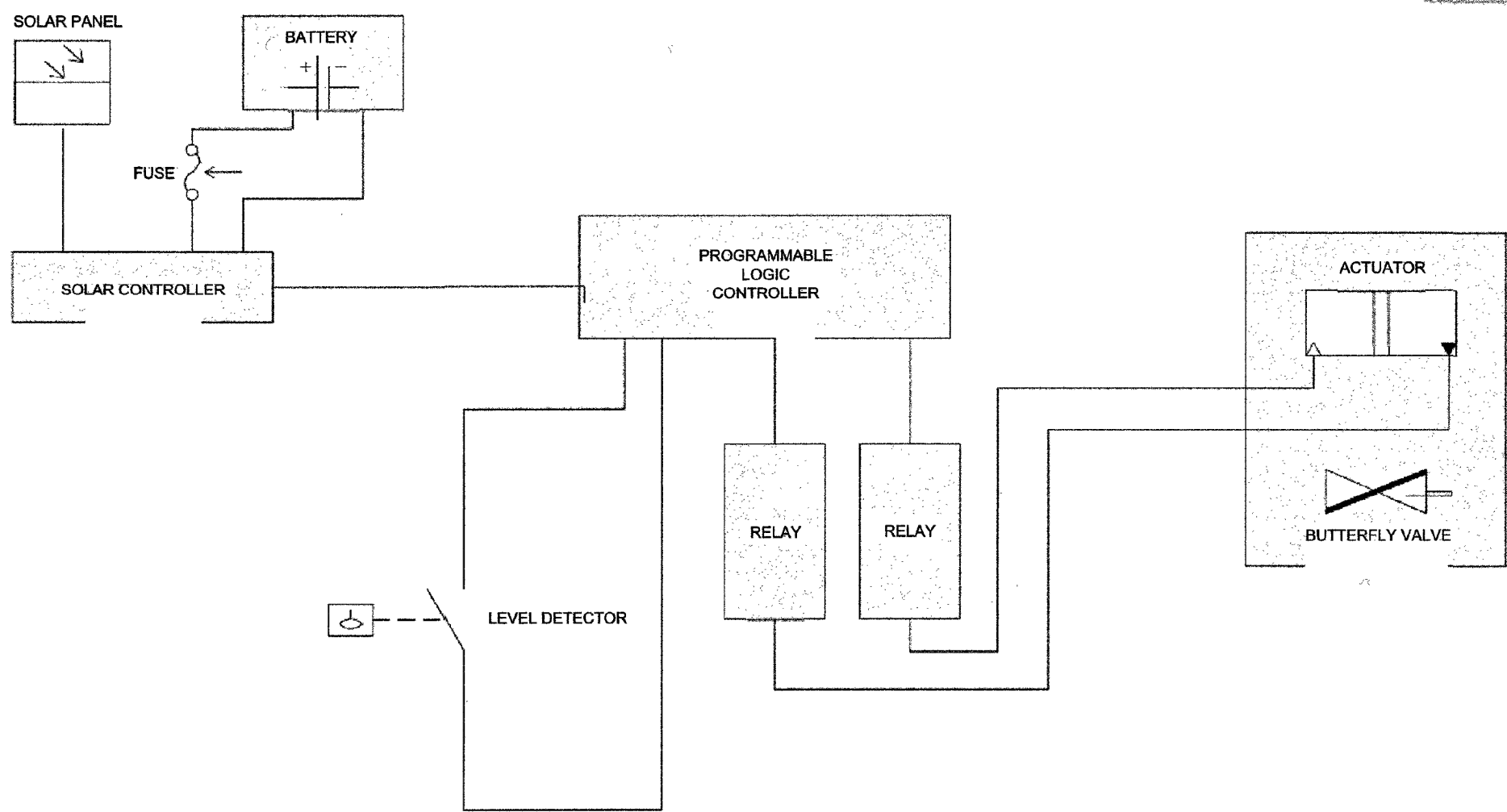
SHEET NUMBER
13 OF 38

A_N = Net increase in impervious area for the project P = Average annual precipitation, inches	
Site Data: Determine Required Load Removal Based on the Entire Project	
County =	Williamson
Total project area included in plan =	17.94 acres
Preadevelopment impervious area within the limits of the plan =	6.00 acres
Total post-development impervious area within the limits of the plan =	3.99 acres
Total post-development impervious cover fraction =	0.22
	$P = 32$ inches
$L_{\text{TOTAL PROJECT}} =$	3473 lbs.
* The values entered in these fields should be for the total project area.	
Number of drainage basins / outfalls areas leaving the plan area =	1

***THIS CALCULATION SHOWS TOTAL AREA AND IMPERVIOUS COVER PROPOSED UNDER THIS PERMIT. THIS INCLUDES THE PROPOSED TURN LANE & ALL PARKING, DRIVE AISLES, SIDEWALKS, AND STRUCTURES.**

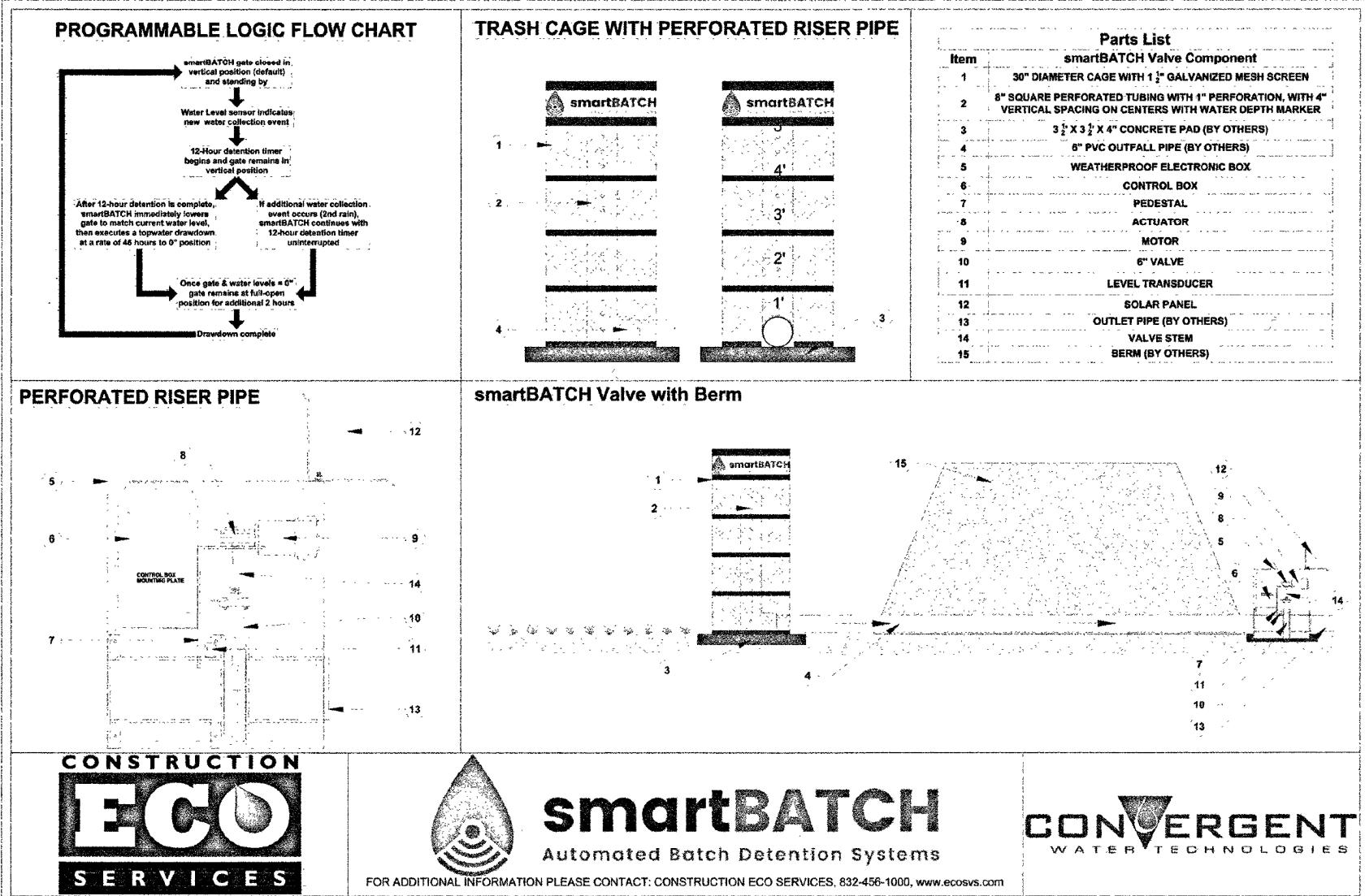
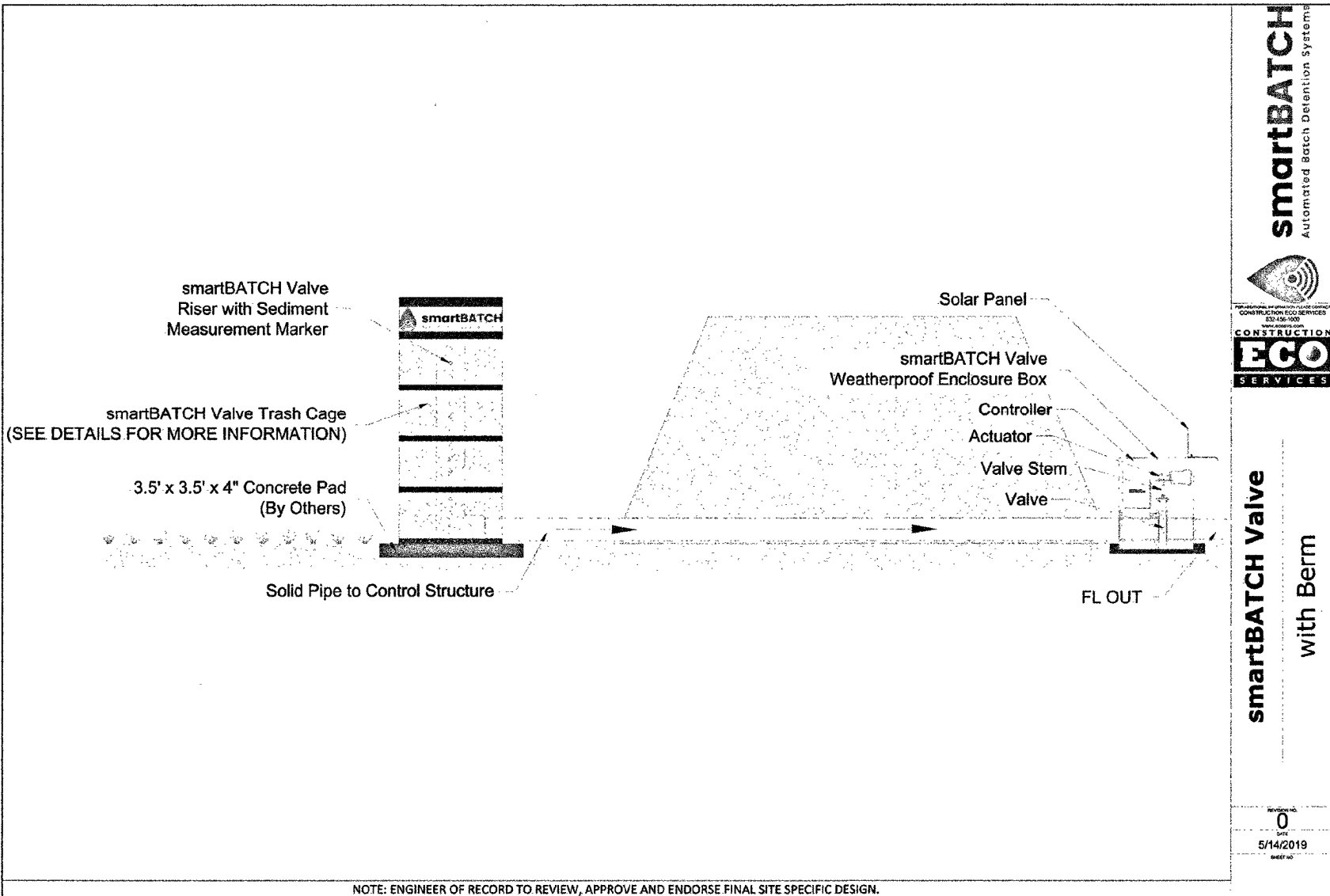
Sedimentation Pond	Area (cf.)	Storage (cf.)	Culmulative Storage (cf.)
899	0.0	810.0	0.0
900	1,620.0	3,125.0	810.0
900	4,630.0	5,372.5	3,935.0
901	6,115.0	6,824.5	9,307.5
902	7,534.0	8,393.5	16,132.0
903	9,253.0		24,525.5

CONTROL CIRCUIT BLOCK DIAGRAM



*THIS CALCULATION SHOWS TOTAL AREA AND IMPERVIOUS COVER PROPOSED UNDER THE FUTURE BUILD OUT OF THE 9.16 ACRE JAMES AVERY TRACT. POND IS SIZED TO TREAT FULL BUILD OUT CONDITION, UPDATED CALCULATIONS TO BE PROVIDED WITH FUTURE SITE DEVELOPMENT PLANS.

APPROVED
JAN 22 2020 *h*
PLANNING DEPT.
CITY OF CEDAR PARK



smartBATCH Valve SPECIFICATION

- [illegible]

NOTE: ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN

Specifications

JAMES AVERY
AUSTIN HQ2
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TEXAS

SHEET NUMBER.
23 OF 38

SD-19-00020

POND CALCULATIONS AND DETAILS

STATE OF TEXAS
LUKE W CARAWAY
125677
LICENSED
PROFESSIONAL ENGINEER
01/06/2019

Kimley»»Horn

2600 VIA FORTUNA, TERRACE I, SUITE 300
AUSTIN, TX 78746
PHONE: 512-646-2237
WWW.KIMLEY-HORN.COM
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TBPE Firm No. 928

**CEDAR PARK
INDUSTRIAL**
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TX 7866

APPROVED JAMES
EVERY WATER QUALITY
CALCULATIONS

065008800	DATE AUGUST 2025	SCALE: AS SHOWN	DESIGNED BY: JIR	DRAWN BY: DJS	CHECKED BY: JIR
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Kimley»Horn

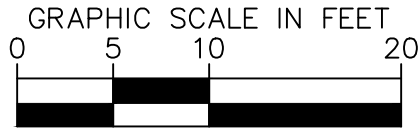
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No.	REVISIONS
1	1. Initial Review
2	2. Minor Revisions
3	3. Major Revisions
4	4. Final Review
5	5. Publication

BY
E.

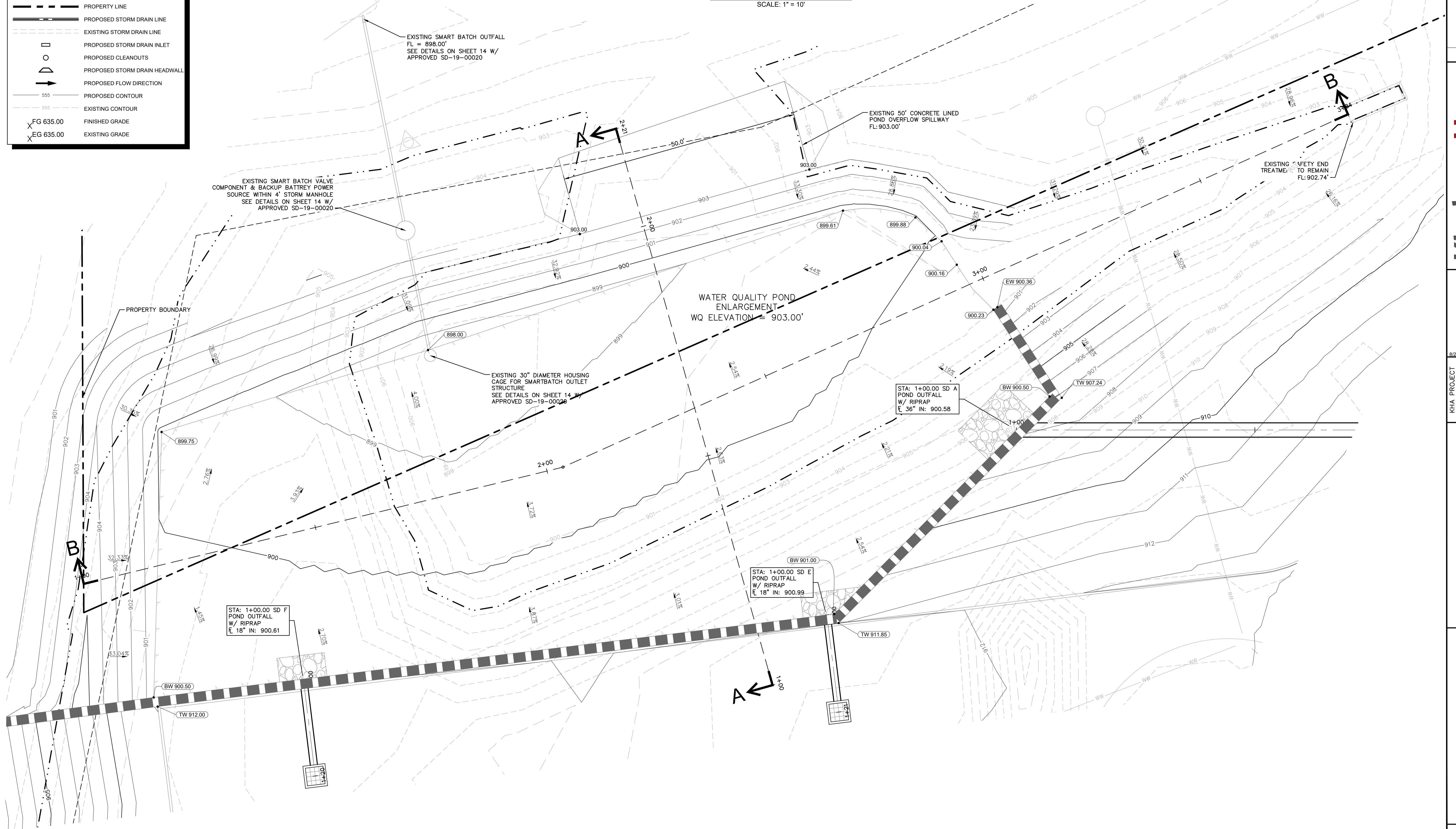
ATTACHMENT K – BMPs for On-site Stormwater

A batch detention pond will be used to treat the on-site stormwater. The existing pond to the North of our site will be expanded to accommodate the additional impervious cover being added. The TCEQ TSS Removal Calculations Spreadsheet was used to design the original pond, as well as our updated calculations.



	PROPERTY LINE
	PROPOSED STORM DRAIN LINE
	EXISTING STORM DRAIN LINE
	PROPOSED STORM DRAIN INLET
	PROPOSED CLEANOUTS
	PROPOSED STORM DRAIN HEADWALL
	PROPOSED FLOW DIRECTION
	PROPOSED CONTOUR
	EXISTING CONTOUR
FG 635.00	FINISHED GRADE
EG 635.00	EXISTING GRADE

SCALE: 1" = 10'



Plotted By: Jones, Dean Date: August 29, 2025 09:44:17am File Path: K:\SMA_Civil\068181001-Cedar Park Industrial\Coa\PlanSheets\C-Water Quality Planning
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TEXAS REGISTERED ENGINEERING FIRM F-928



065008800
DATE AUGUST 2025
SCALE: AS SHOWN
DESIGNED BY: JIR
DRAWN BY: DJS
CHECKED BY: JIR

WATER QUALITY POND ENLARGEMENT PLAN

**CEDAR PARK
INDUSTRIAL**
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TX 78641

SHEET NUMBER

15 OF 38

No.	REVISIONS	DATE	BY

Minimum sedimentation basin area = **90** square feet **For maximum water depth of 8 feet**

ATTACHMENT L – BMPs for Surface Streams

N/A - There are no existing surface streams.

ATTACHMENT M – Construction Plans

Please see construction plans included with this application package.

1. A SITE DEVELOPMENT PERMIT SHALL EXPIRE TWO (2) YEARS FROM THE DATE SUCH PERMIT WAS APPROVED IF NO PROGRESS HAS BEEN MADE TOWARDS COMPLETION OF THE PROJECT, PURSUANT TO SECTION 245.005 OF THE TEXAS LOCAL GOVERNMENT CODE, AS AMENDED. (SEC. 14.03.009 (A)).
2. ANY PROJECT, AS DEFINED UNDER CHAPTER 245 OF THE TEXAS LOCAL GOVERNMENT CODE, AS AMENDED, SHALL EXPIRE ON THE FIFTH ANNIVERSARY OF THE DATE THE FIRST PERMIT APPLICATION WAS FILED FOR THE PROJECT, PURSUANT TO SECTION 245.005 OF THE TEXAS LOCAL GOVERNMENT CODE, AS AMENDED. (SEC. 14.03.009 (B)).

3. 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.
2. A PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN. FIRM PANEL NO. 48491C 0462F, WILLIAMSON COUNTY, TEXAS AND INCORPORATED AREAS (EFFECTIVE DATE DECEMBER 20 2019).
3. WATER AND WASTEWATER SERVICE WILL BE PROVIDED BY THE CITY OF CEDAR PARK, CONDITIONED UPON ALL FEES AND CHARGES ARE PAID.
4. THERE ARE NO NATURAL SLOPES ON THIS SITE IN EXCESS OF 15%.
5. THERE ARE NO KNOWN CRITICAL ENVIRONMENTAL FEATURES ON THIS SITE.
6. NO STRUCTURES CAN BE BUILT WITHIN WATER & WASTEWATER EASEMENTS.
7. RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.
8. AS PART OF THIS SITE PLAN, THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO BE ON SITE AT ALL TIMES.
9. SITE IS SUBJECT TO THE WATERSHED PROTECTION REGULATIONS.
10. APPROVAL OF THESE PLANS BY THE CITY OF CEDAR PARK INDICATES COMPLIANCE WITH APPLICABLE CITY REGULATIONS ONLY. APPROVAL BY OTHER GOVERNMENTAL ENTITIES MAY BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR DETERMINING WHAT ADDITIONAL APPROVALS MAY BE NECESSARY.
11. FOR OUTDOOR CONDENSERS, UTILITY HUTS, AND OTHER BUILDING SERVICE EQUIPMENT, SUCH EQUIPMENT SHALL BE COMPLETELY SCREENED FROM VIEW ON ALL SIDES USING A VEGETATIVE SCREEN WITH AT LEAST TWO (2) VARIETIES OF PLANT MATERIAL FROM THE PREFERRED PLANT LIST THAT, AT MATURITY, IS AT LEAST THE HEIGHT OF THE EQUIPMENT TO BE SCREENED. (SEC. 14.07.009 (A) (2)).
12. THIS SITE IS LOCATED IN THE EDWARDS AQUIFER CONTRIBUTING ZONE. EDWARD'S AQUIFER PROTECTION PROGRAM ID NO. 11002300 REGULATED ENTITY NO. RN109839092
13. TDLR REGISTRATION NUMBER: TABS2021002543
14. THE ENGINEER HAS REVIEWED THE DRAINAGE STUDY CALLED UPPER BRUSHY CREEK DRAINAGE STUDY, PERFORMED BY PAPE-DAWSON ENGINEERS, DATED JULY 23, 2012, AND PERSONALLY CERTIFIES THAT ALL SITES IN THE ORIGINAL STUDY HAVE BEEN BUILT WITHIN THE ALLOWED LIMITS OF IMPERVIOUS COVER, ALL EXCAVATION REQUIREMENTS FOR THE EXISTING AND PROPOSED SITES HAVE BEEN MET. THE PROPOSED DEVELOPMENT WILL NOT CAUSE ANY ADVERSE IMPACTS UPSTREAM OR DOWNSTREAM OF THE SITE'S OUTFALL TO THE CREEK.
15. EASEMENTS NEED TO BE APPROVED PRIOR TO SITE DEVELOPMENT PERMIT.



SITE WATERSHED: SOUTH BRUSHY CREEK
EDWARDS AQUIFER CONTRIBUTING ZONE
ADDRESS: 6400 183A TOLL RD, LEANDER, TX 78641



Planning _____	Date _____
Engineering Services _____	Date _____
Industrial Pretreatment _____	Date _____
Fire Prevention _____	Date _____
Landscape Planner _____	Date _____
Addressing _____	Date _____
Site Development Permit Number SD-XX-XXXXX	

THIS PROJECT CONSISTS OF A 9.1735 ACRE SITE LOCATED IN CEDAR PARK, WILLIAMSON COUNTY, TEXAS 78641. DEVELOPMENTS INCLUDE TWO INDUSTRIAL BUILDINGS TOTALING 107,300 SF, WITH BUILDINGS BEING 31,907 SF AND 73,963 SF, RESPECTIVELY. IMPERVIOUS COVER FOR THIS PROJECT TOTALS 255,697.20 SF. THE SITE WILL ALSO INCLUDE WATER, WASTEWATER, AND STORM DRAINAGE PLANS. ADA AND REGULAR PAVED PARKING SPOTS WILL BE INCLUDED ALONG WITH TRUCK LOADING DOCKS ALONG THE REAR OF EACH BUILDING. BUILDINGS

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	KHA GENERAL NOTES
3	CEDAR PARK & TCEQ GENERAL NOTES
4	EXISTING CONDITIONS AND DEMO
5	EROSION CONTROL PLAN
6	EROSION CONTROL DETAILS
7	SITE & PAVING PLAN
8	FIRE PROTECTION PLAN
9	GRADING PLAN
10	EXISTING DRAINAGE AREA MAP
11	PROPOSED DRAINAGE AREA MAP
12	PROPOSED INLET DRAINAGE AREA MAP
13	APPROVED JAMES AVERY WATER QUALITY PLAN
14	APPROVED JAMES AVERY WATER QUALITY CALCULATIONS
15	WATER QUALITY POND ENLARGEMENT PLAN
16	WATER QUALITY CALCULATIONS
17	STORM PLAN
18	WATER PLAN
19	WASTEWATER PLAN
20	TURN LANE PLAN & PROFILE
21	TRAFFIC CONTROL DETAILS
22	SIGN MOUNTING DETAILS
23	SITE DETAILS
24	PAVING DETAILS
25	STORM AND UTILITIES DETAILS (1 OF 2)
26	STORM AND UTILITIES DETAILS (2 OF 2)
27	OVERALL TREE PRESERVATION PLAN
28	TREE PRESERVATION PLAN (1 OF 2)
29	TREE PRESERVATION PLAN (2 OF 2)
30	TREE INVENTORY
31	TREE PRESERVATION SPECIFICATIONS
32	OVERALL LANDSCAPE PLANS
33	LANDSCAPE PLAN (1 OF 2)
34	LANDSCAPE PLAN (2 OF 2)
35	LANDSCAPE DETAILS
36	LANDSCAPE SPECIFICATIONS (1 OF 2)
37	LANDSCAPE SPECIFICATION (2 OF 2)
38	LAWN AND GRASS SPECIFICATIONS

BENCHMARKS

BM #1021
• ELEV.=926.364

BM #1052
• ELEV.=914.827

BM #2082
• ELEV.=906.293

BM #2080
• ELEV.=903.532

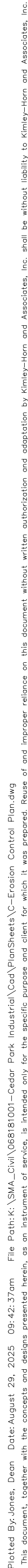
BM #1023
• ELEV.=898.477

BM #1022
• ELEV.=921.103

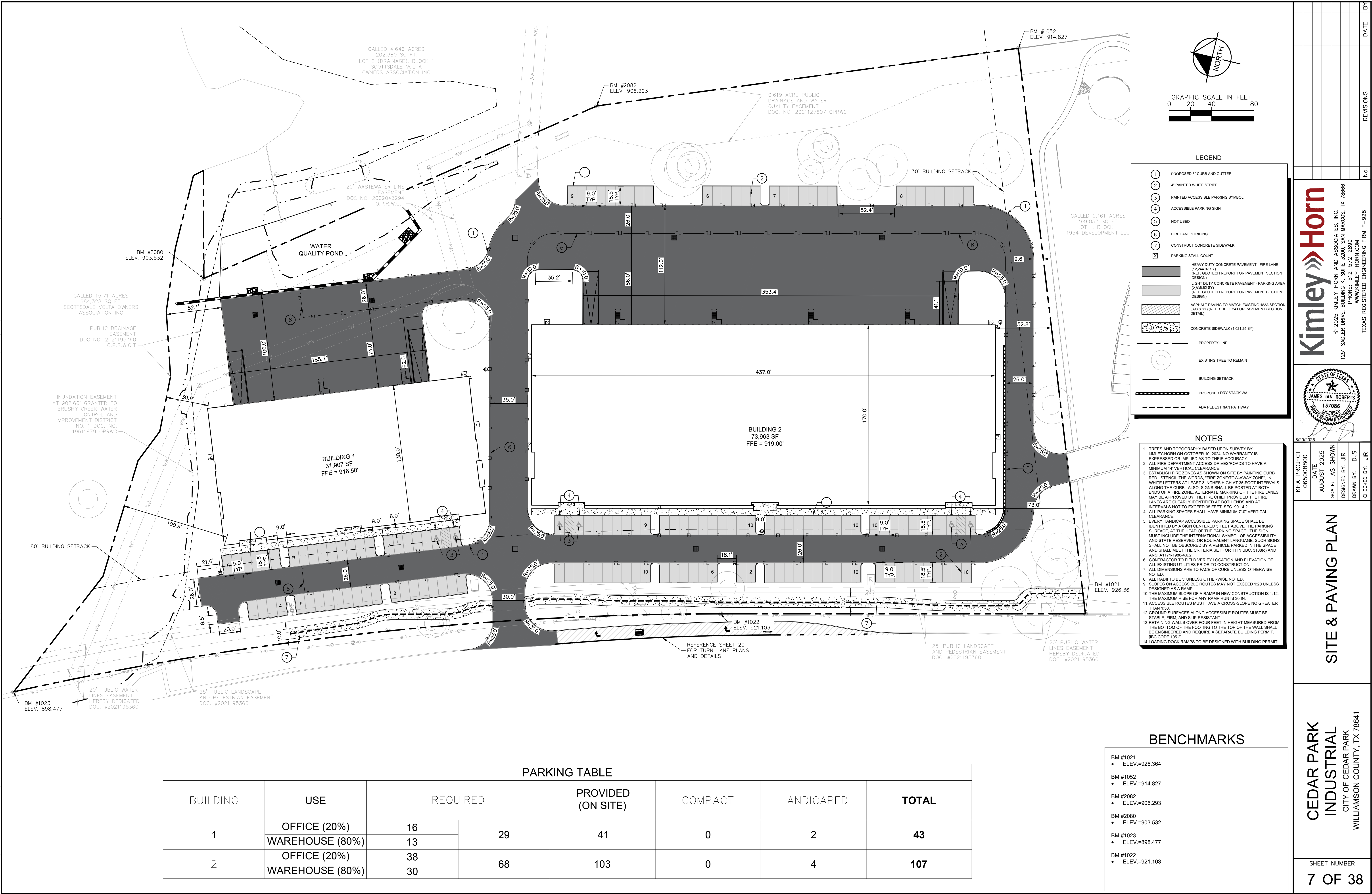


STATE OF TEXAS
REGISTRATION NO. F-928

SHEET NUMBER
3 OF 38

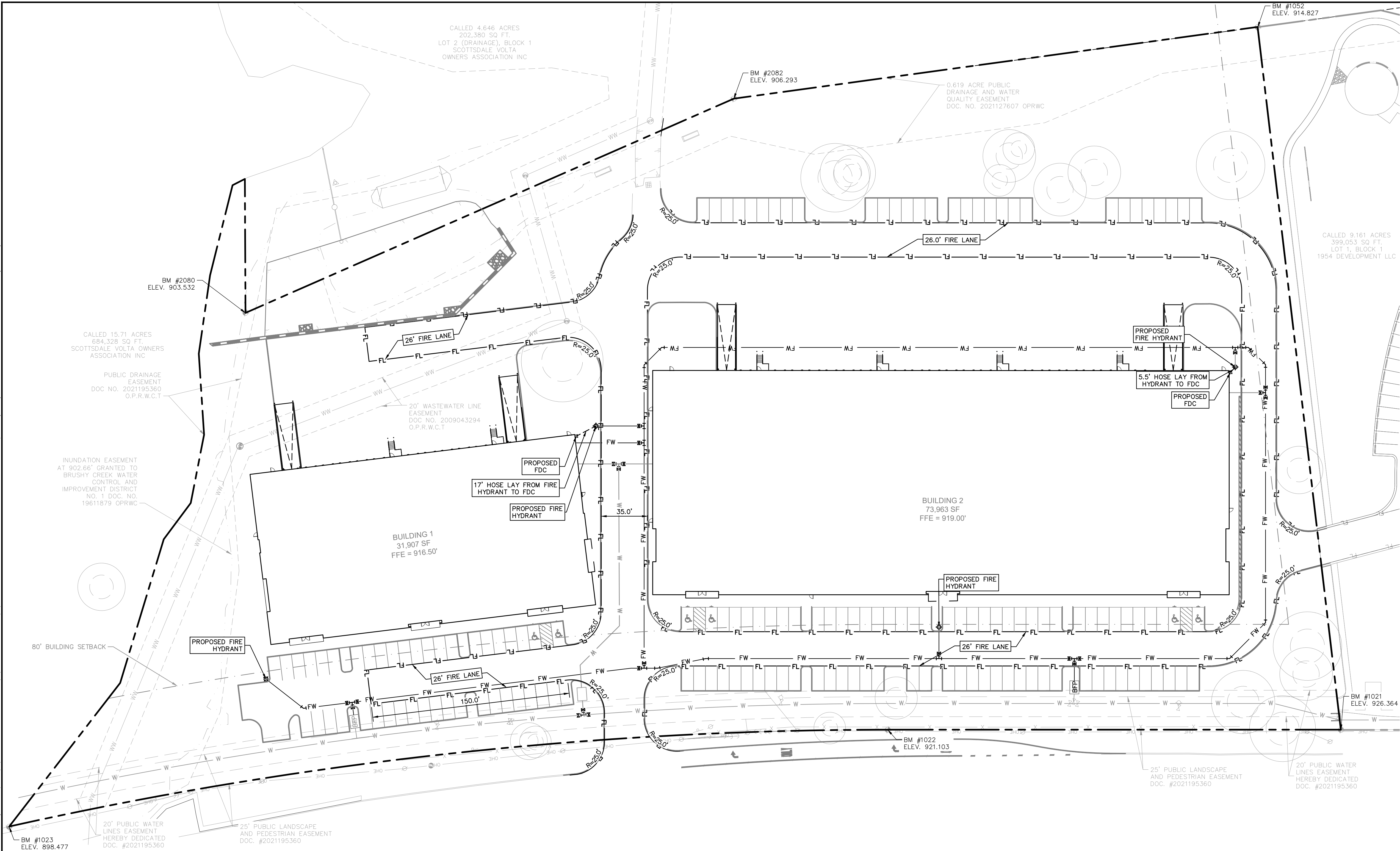


Picked By Jones, Deon Date: August 29, 2025 09:43:01am File Path: K:\SMA_Civil\668181001-Cedar Park Industrial\CD\PlanSheets\C-Site & Paving Plan.dwg
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KHA PROJECT 065008800		DATE AUGUST 2025	SCALE: AS SHOWN	DESIGNED BY: JIR	DRAWN BY: DJS	CHECKED BY: JIR
KIMLEY-HORN		© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 1251 SADLER DRIVE, BUILDING K, SUITE 3200, SAN MARCOS, TX 78666 PHONE: 512-572-2899 WWW.KIMLEY-HORN.COM				
STATE OF TEXAS JAMES IAN ROBERTS 137086 REGISTERED PROFESSIONAL ENGINEER		TEXAS REGISTERED ENGINEERING FIRM F-928				
CEDAR PARK INDUSTRIAL		SITE & PAVING PLAN				
CITY OF CEDAR PARK WILLIAMSON COUNTY, TX 78641		SHEET NUMBER 7 OF 38				

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GRAPHIC SCALE IN FEET

0 20 40 80

NORTH

LEGEND

- W PROPOSED WATER LINE
- W EXISTING WATER LINE
- FW FIRE WATER LINE
- FL PROPOSED FIRE LANE STRIPING
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPERTY BOUNDARY

CEGAR PARK FIRE DEPARTMENT SITE DEVELOPMENT STANDARDS

I. 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 SHALL LAMED ON PARKS.
- 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 25 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 AN ALGEBRAIC DIFFERENCE OF GREATER THAN 12%.
- G. SHALL HAVE A GRADE WITHIN THE LIMITS ESTABLISHED BY THE FIRE CODE OFFICIAL BASED ON THE CEDAR PARK FIRE DEPARTMENT STANDARDS.
- 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.
- J. THESE WORDS SHALL BE MARKED WITHIN THE RED STRIPE.
- K. FIRE LANE STRIPING SHALL BE CONTINUOUS THROUGHOUT.
- L. CURB FACING SHALL BE USED WHERE AVAILABLE.
- M. WHERE THERE IS NO CURB, LAY DOWN STRIPING SHALL BE USED.

II. DURING CONSTRUCTION, FIRE APPARATUS ACCESS ROADS SHALL:

- A. BE MAINTAINED IN AN EASILY DISTINGUISHABLE CONDITION THROUGHOUT CONSTRUCTION.
- B. WHERE THIS IS IMPOSSIBLE OR IMPRACTICAL, SIGNS APPROVED BY THE FIRE CODE OFFICIAL MAY BE USED.
- C. ALL CONSTRUCTION VEHICLES AND CONSTRUCTION WORKER VEHICLES MUST BE PARKED ON SITE.
- D. NO VEHICLE SHALL BE ALLOWED TO PARK OR STOP IN THE FIRE APPARATUS ACCESS ROADS, WHETHER OCCUPIED OR UNOCCUPIED.

III. FIRE HYDRANTS

- A. WHERE FIRE HYDRANTS ARE SUBJECT TO IMPACT BY A MOTOR VEHICLE, GUARD POSTS SHALL BE CONSTRUCTED AS SET FORTH IN FDC SECTION 103 AND COMPLY WITH THE FOLLOWING REQUIREMENTS:
- I. LOCATED NOT MORE THAN 4 FEET ON CENTER BETWEEN POSTS.
- II. SET NOT LESS THAN 3 FEET DEEP IN A CONCRETE FOOTING OF NOT LESS THAN 15 INCHES IN DIAMETER.
- III. SET WITH THE TOP OF THE POSTS NOT LESS THAN 3 FEET ABOVE GRADE.
- IV. A BLUE REFLECTOR IS REQUIRED TO BE MOUNTED IN THE CENTER OF THE ADJACENT DRIVE TO MARK THE HYDRANT LOCATION.
- V. LOCATED NOT LESS THAN 3 FEET FROM THE PROTECTED OBJECT.

IV. FIRE DEPARTMENT CONNECTIONS (FDC)

- A. FIRE DEPARTMENT CONNECTIONS MUST:
- I. BE INSTALLED ON THE FRONT OF THE BUILDING.
- II. IN A LOCATION THAT IS READILY VISIBLE FROM THE APPROVED FIRE APPARATUS ACCESS ROAD.
- III. HAVE A MINIMUM OF 36 INCHES OF CLEAR SPACE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FDC.
- IV. HAVE A FIRE HYDRANT WITHIN 100 FEET OF THE FDC AND BE LOCATED IN SUCH A WAY THAT THE CONNECTION DOES NOT OBSTRUCT THE FIRE APPARATUS ACCESS ROAD.
- V. NOT BE BLOCKED FROM VIEW OR USE BY:
- A. STRUCTURAL MEMBERS
- B. PARKING SPACES
- C. TREES
- D. LANDSCAPING, ETC.
- E. A WHITE REFLECTOR IS REQUIRED TO BE MOUNTED IN THE CENTER OF THE ADJACENT DRIVE TO MARK THE FDC LOCATION.

V. FLAMMABLE/COMBUSTIBLE WASTE AND STORAGE

- A. FLAMMABLE AND COMBUSTIBLE LIQUID STORAGE AREAS SHALL:
- I. BE MAINTAINED CLEAR OF COMBUSTIBLE VEGETATION AND WASTE MATERIALS.
- II. NOT BE USED FOR THE STORAGE OF OTHER COMBUSTIBLE MATERIALS.
- B. COMBUSTIBLE DEBRIS, RUBBISH, AND WASTE MATERIAL SHALL:
- I. NOT BE ALLOWED TO ACCUMULATE WITHIN BUILDINGS.
- II. BE REMOVED FROM BUILDINGS AT THE END OF EACH SHIFT OR WORK DAY.
- III. NOT BE DISPOSED OF BY BURNING ON SITE.
- NOTE THAT OPEN BURNINGS OF ANY TYPE IS PROHIBITED ON CONSTRUCTION SITES WITHIN THE JURISDICTION OF THE CEDAR PARK FIRE DEPARTMENT.

6"

35' (MAX)

12"

FIRE LANE TOW AWAY ZONE

FIRE LANE TOW AWAY ZONE

26' MIN

BE MARKED BY LINES OF RED TRAFFIC PAINT OR DYE A MINIMUM OF 6 INCHES IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE. THE WORDS "FIRE LANE TOW AWAY ZONE" SHALL APPEAR IN 4 INCH WHITE LETTERS NO GREATER THAN 35 FEET APART. THESE WORDS SHALL BE MARKED WITHIN THE RED STRIPE. FIRE LANE STRIPING SHALL BE CONTINUOUS THROUGHOUT. CURB FACING SHALL BE USED WHERE AVAILABLE. WHERE THERE IS NO CURB, LAY DOWN STRIPING SHALL BE USED.

FIRE LANE TOW AWAY ZONE

FIRE LANE TOW AWAY ZONE

FIRE LANE MARKING

N.T.S.

BENCHMARKS

- BM #1021
• ELEV.=926.364
- BM #1052
• ELEV.=914.827
- BM #2082
• ELEV.=906.293
- BM #2080
• ELEV.=903.532
- BM #1023
• ELEV.=898.477
- BM #1022
• ELEV.=921.103

Kimley»Horn

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PHONE: 512-572-2899
WWW.KIMLEY-HORN.COM

TEXAS REGISTERED ENGINEERING FIRM F-928

8/29/2025

KHA PROJECT 065008800

DATE AUGUST 2025

SCALE: AS SHOWN

DESIGNED BY: JIR

DRAWN BY: DJS

CHECKED BY: JIR

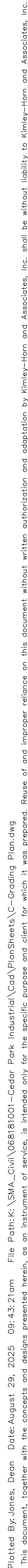
FIRE PROTECTION PLAN

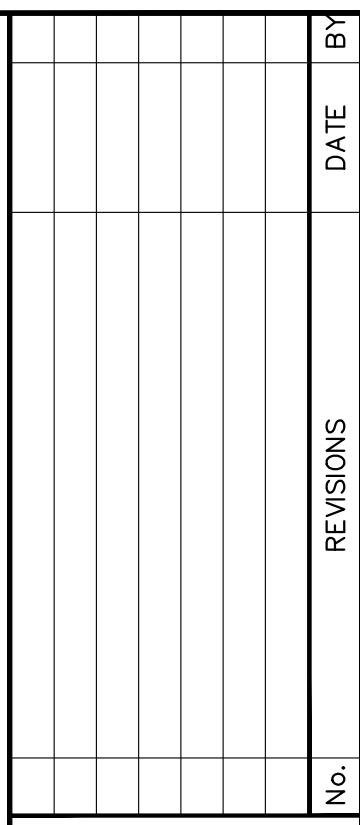
CEGAR PARK INDUSTRIAL

CITY OF CEDAR PARK

WILLIAMSON COUNTY, TX 78641

SHEET NUMBER 8 OF 38





KHA PROJECT	DATE	SCALE:	DRAWN BY:	CHECKED BY:
065008000	AUGUST 2025	AS SHOWN	JIR	JIR

EXISTING DRAINAGE AREA MAP

SHEET NUMBER

10 OF 38

CEDAR PARK INDUSTRIAL

CITY OF CEDAR PARK
WILLIAMSON COUNTY, TX 73641

TIME OF CONCENTRATION	Area		Sheet Flow				Shallow Concentrated Flow				Shallow Concentrated Flow				Channel Flow				Actual	Design	
							Unpaved				Paved										
Existing Drainage Area	ac	n	S	L	T ₁₁	L	S		V	T ₁₂	L	S	V	T ₁₂		L	S	V	T ₁₃	T _c , min.	T _c , min.
EX-A	2.89	0.02	0.015	100.0	1.9	483.5	0.030		2.79	2.9	141.0	0.030	2.79	0.8		0.0	0.000	0.0	0.0	5.65	5.65
EX-B	6.29	0.02	0.026	100.0	1.2	490.8	0.032		2.86	2.9	178.0	0.027	2.65	1.1		183.9	0.022	5.8	0.5	5.73	5.73
RUNOFF COEFFICIENT	Area		Impervious Cover		Impervious Area		Impervious Coefficient		Pervious Area		Pervious Coefficient		Composite Coefficient		<i>i</i> ₂₅	<i>i</i> ₁₀₀	<i>Q</i> ₂₅		<i>Q</i> ₁₀₀		
Drainage Area	ac		%		ac				ac						in/hr	in/hr	cfs		cfs		
EX-A	2.89		7.30%		0.21		0.97		2.68		0.49		0.53		11.79	15.42	17.89		23.40		
EX-B	6.29		17.00%		1.07		0.97		5.23		0.49		0.57		11.79	15.42	42.40		55.45		

BM #1021
• ELEV.=926.364

BM #1052
• ELEV.=914.827

BM #2082
• ELEV.=906.293

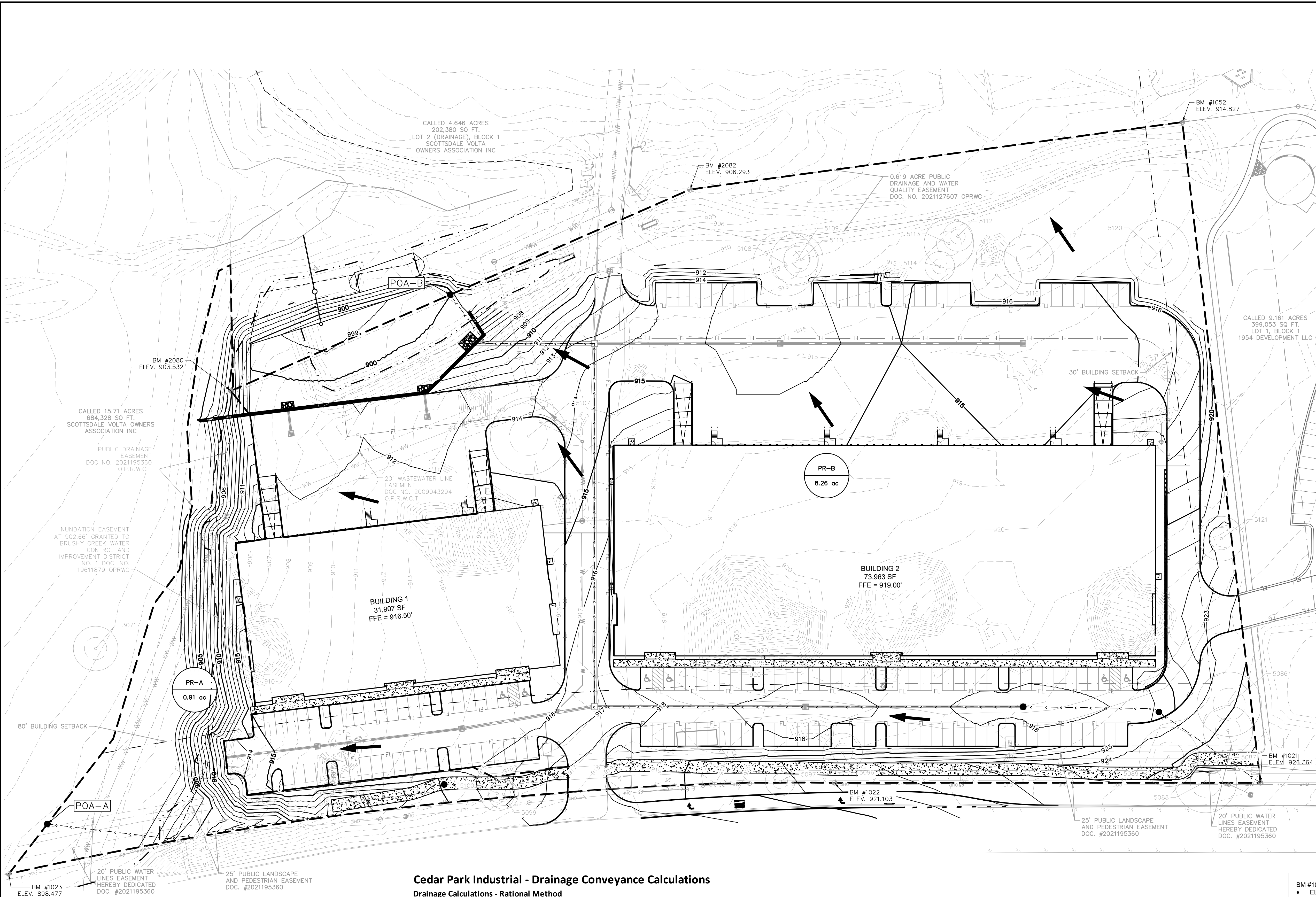
BM #2080
• ELEV.=903.532

BM #1023
• ELEV.=898.477

BM #1022
• ELEV.=921.103



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GRAPHIC SCALE IN FEET
0 20 40 80

LEGEND

- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW LINE
- DRAINAGE FLOW DIRECTION
- PR-#
ac BASIN NAME
- AREA IN ACRES
- EXISTING CONTOURS
- PROPOSED CONTOURS

NOTES:
1. THE FLOW OFF THE SITE HAS NOT BEEN INCREASED FROM EXISTING CONDITION.
2. I CERTIFY THAT I HAVE PERSONALLY CONDUCTED A TOPOGRAPHIC REVIEW AND FIELD INVESTIGATION OF THE EXISTING AND PROPOSED FLOW PATTERS FOR STORMWATER RUNOFF FROM THE SUBJECT DEVELOPMENT TO THE MAIN STEM OF UPPER BRUSHY CREEK. AT BUILD-OUT CONDITIONS ALLOWABLY BY ZONING, RESTRICTIVE COVENANT OR PLAT NOTE, THE STORMWATER FLOWS FROM THE SUBJECT DEVELOPMENT WILL NOT CAUSE ANY ADDITIONAL ADVERSE FLOODING IMPACTS FOR STORMS OF MAGNITUDE UP THROUGH THE 100-YEAR EVENT.

Point of Analysis Summary of Flows	Storm Event	Existing Runoff (cfs)	Developed Runoff (cfs)	Difference (cfs)	Is Developed <= Existing
POA-A	25-YR	17.29	5.51	11.78	YES
	100-YR	22.60	7.21	15.39	
POA-B	25-YR	40.81	77.59	-36.78	NO
	100-YR	53.33	101.38	-48.05	

Cedar Park Industrial - Drainage Conveyance Calculations

Drainage Calculations - Rational Method

TIME OF CONCENTRATION	Area	Sheet Flow					Shallow Concentrated Flow					Shallow Concentrated Flow					Channel Flow				Actual	Design
							Unpaved					Paved										
		ac	n	S	L	T ₁₁	L	S	V	T ₁₂	L	S	V	T ₁₂	L	S	V	T ₁₃	T _c , min.	T _c , min.		
Proposed Drainage Area	0.91	0.02	0.027	100.0	1.5	75.0	0.032	2.89	0.4	183.3	2.700	26.51	0.1	0.0	0.000	0.0	0.0	2.07	5.00			
PR-A	0.91	0.02	0.027	100.0	1.5	75.0	0.032	2.89	0.4	183.3	2.700	26.51	0.1	0.0	0.000	0.0	0.0	2.07	5.00			
PR-B	8.26	0.02	0.022	100.0	1.7	48.7	0.180	6.85	0.0	105.8	0.014	1.91	1	762.0	0.010	3.9	3.2	5.81	5.81			
RUNOFF COEFFICIENT	Area	Impervious Cover		Impervious Area	Impervious Coefficient	Pervious Area	Pervious Coefficient	Composite Coefficient	<i>i</i> ₂₅	<i>i</i> ₁₀₀	<i>Q</i> ₂₅	<i>Q</i> ₁₀₀										
	Drainage Area	ac	%	ac		ac			in/hr	in/hr	cfs	cfs										
	PR-A	0.91	4.90%	0.05	0.97	0.86	0.49	0.51	11.79	15.42	5.51	7.21										
	PR-B	8.26	71.00%	5.85	0.97	2.41	0.49	0.83	11.31	14.77	77.59	101.38										

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

Know what's below.
Call before you dig.

- BENCHMARKS
- BM #1021
• ELEV.=926.364
 - BM #1052
• ELEV.=914.827
 - BM #2082
• ELEV.=906.293
 - BM #2080
• ELEV.=903.532
 - BM #1023
• ELEV.=898.477
 - BM #1022
• ELEV.=921.103

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PHONE: 512-572-2899
WWW.KIMLEY-HORN.COM

TEXAS REGISTERED ENGINEERING FIRM F-928

STATE OF TEXAS
JAMES IAN ROBERTS
137086
LICENSED PROFESSIONAL ENGINEER

8/29/2025

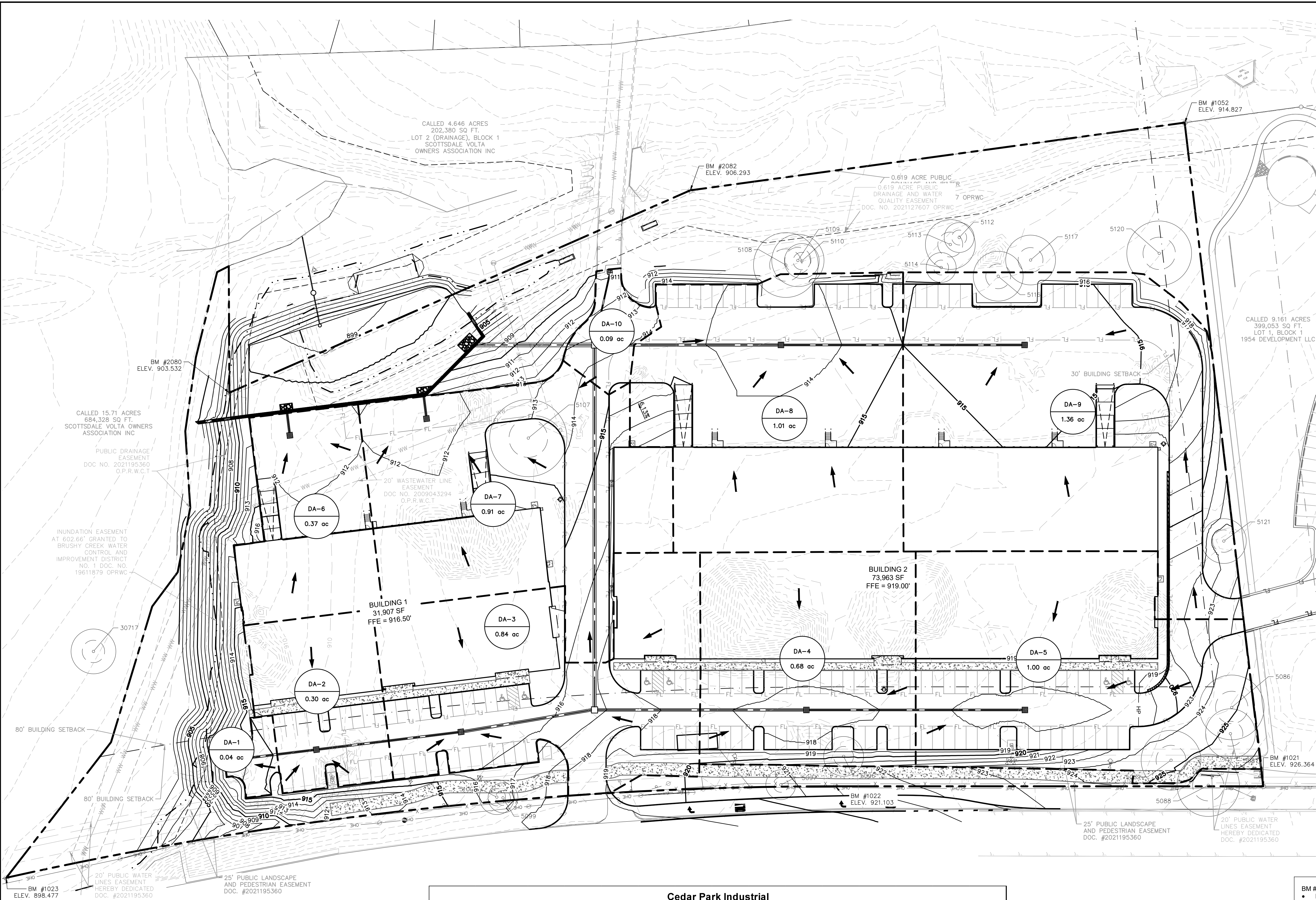
KHA PROJECT 065008800
DATE AUGUST 2025
SCALE: AS SHOWN
DESIGNED BY: JIR
DRAWN BY: DJS
CHECKED BY: JIR

PROPOSED DRAINAGE AREA MAP

CEDAR PARK INDUSTRIAL
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TX 78641

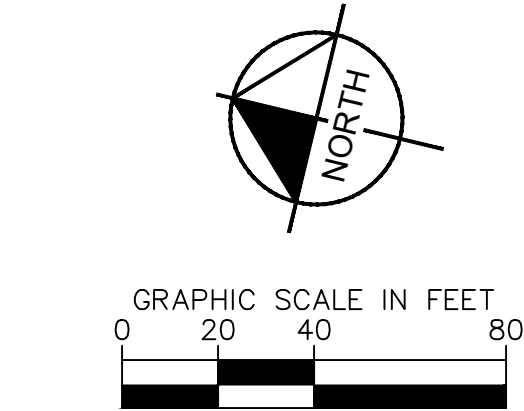
SHEET NUMBER
11 OF 38

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LEGEND

- DRAINAGE AREA BOUNDARY
- PROPERTY BOUNDARY
- DRAINAGE FLOW DIRECTION
- PR-#
ac BASIN NAME
AREA IN ACRES
- - - 450 EXISTING CONTOURS
- 450 PROPOSED CONTOURS



BENCHMARKS

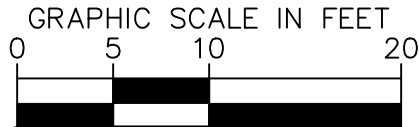
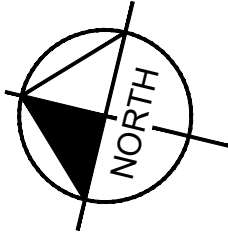
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• ELEV.=926.364
- BM #1052
• ELEV.=914.827
- BM #2082
• ELEV.=906.293
- BM #2080
• ELEV.=903.532
- BM #1023
• ELEV.=898.477
- BM #1022
• ELEV.=921.103



Cedar Park Industrial														
Inlet Runoff (Q) Calculations														
D.A.	Drainage	TOTAL	2-Year			10-Year			25-Year			100-Year		
Number	Area (Ac)	T _c (Min.)	C	I	Q (cfs)	C	I	Q (cfs)	C	I	Q (cfs)	C	I	Q (cfs)
DA-1	0.04	5.0	0.75	6.18	0.185	0.83	9.29	0.31	0.88	11.45	0.40	0.97	15.24	0.59
DA-2	0.30	5.0	0.74	6.18	1.370	0.82	9.29	2.28	0.87	11.45	2.98	0.96	15.24	4.38
DA-3	0.84	5.0	0.71	6.18	3.708	0.79	9.29	6.18	0.84	11.45	8.09	0.93	15.24	11.89
DA-4	0.68	5.0	0.72	6.18	3.006	0.79	9.29	5.01	0.84	11.45	6.56	0.93	15.24	9.64
DA-5	1.00	5.0	0.67	6.18	4.140	0.75	9.29	6.93	0.79	11.45	9.07	0.88	15.24	13.37
DA-6	0.37	5.0	0.75	6.18	1.715	0.83	9.29	2.85	0.88	11.45	3.73	0.97	15.24	5.47
DA-7	0.91	5.0	0.67	6.18	3.753	0.74	9.29	6.28	0.79	11.45	8.22	0.87	15.24	12.13
DA-8	1.01	5.0	0.72	6.18	4.479	0.80	9.29	7.47	0.84	11.45	9.76	0.93	15.24	14.35
DA-9	1.36	5.0	0.68	6.18	5.725	0.76	9.29	9.57	0.80	11.45	12.52	0.89	15.24	18.46
DA-10	0.09	5.0	0.75	6.18	0.417	0.83	9.29	0.69	0.88	11.45	0.91	0.97	15.24	1.33

KHA PROJECT 065008800		DATE AUGUST 2025		SCALE: AS SHOWN		DESIGNED BY: JIR		DJS		CHECKED BY: JIR	
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TEXAS REGISTERED ENGINEERING FIRM F-928											
KIMLEY-HORN											
PROPOSED INLET DRAINAGE AREA MAP											
CEDAR PARK INDUSTRIAL CITY OF CEDAR PARK WILLIAMSON COUNTY, TX 78641											
SHEET NUMBER 12 OF 38											
REVISIONS											
DATE											
BY											

P:\Cedar Park\K-1\K-1_SMA_Civil\68181001-Cedar Park Industrial\CA\PlanSheets\C-Water Quality\Plan.dwg Date: August 29, 2025 09:44:17am File Path: K:\SMA_Civil\68181001-Cedar Park Industrial\CA\PlanSheets\C-Water Quality\Plan.dwg
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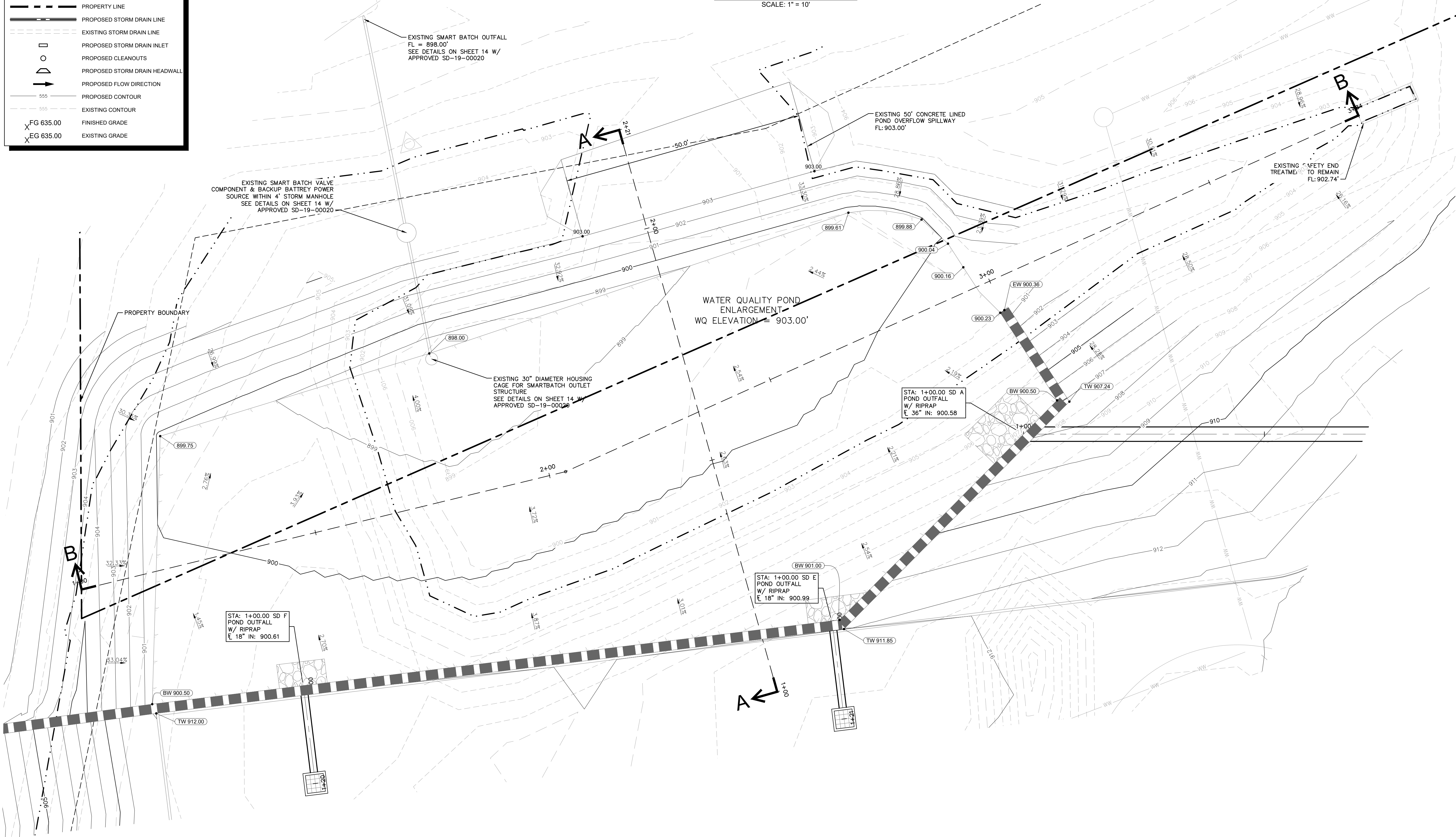


LEGEND

	PROPERTY LINE
	PROPOSED STORM DRAIN LINE
	EXISTING STORM DRAIN LINE
	PROPOSED STORM DRAIN INLET
	PROPOSED CLEANOUTS
	PROPOSED STORM DRAIN HEADWALL
	PROPOSED FLOW DIRECTION
	PROPOSED CONTOUR
	EXISTING CONTOUR
	FINISHED GRADE
	EXISTING GRADE

WQ POND PLAN VIEW

SCALE: 1" = 10'



KHA PROJECT 065008800		DATE AUGUST 2025		SCALE: AS SHOWN		DESIGNED BY: JIR		DRAWN BY: DJS		CHECKED BY: JIR	
WATER QUALITY POND ENLARGEMENT PLAN											
CEDAR PARK INDUSTRIAL CITY OF CEDAR PARK WILLIAMSON COUNTY, TX 78641											
SHEET NUMBER 15 OF 38											
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TEXAS REGISTERED ENGINEERING FIRM F-928											
REVISIONS											
DATE											
BY											

Project Name:	Cedar Park Industrial		
Date Prepared:	7/8/2025		

Pages 3-27 to 3-30

$$L_M \text{ TOTAL PROJECT} = \text{Required TS}$$
$$L_M \text{ TOTAL PROJECT} =$$


17	acres
----	-------

89	acres
----	-------

64

LM THIS BASIN = 5127 lbs.

1	percent
---	---------

Aqualogic Cartridge Filter	
Bioretention	
Contech StormFilter	
Constructed Wetland	
Extended Detention	
Grassy Swale	
Retention / Irrigation	
Sand Filter	
Stormceptor	
Vegetated Filter Strips	
Vortechs	
Wet Basin	
Wet Vault	

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

A_C	= Total On-Site drainage area in the BMP catchment area	
A_I	= Impervious area proposed in the BMP catchment area	
A_P	= Pervious area remaining in the BMP catchment area	
L_R	= TSS Load removed from this catchment area by the proposed BMP	

$A_C =$	9.17	acres
$A_I =$	5.89	acres
$A_P =$	3.28	acres
$L_R =$	5986	lbs

27 lbs.

F =	0.86
-----	------

Pages 3-34 to 3-36

Rainfall Depth =	1.20	inches
Post Development Runoff Coefficient =	0.45	
On-site Water Quality Volume =	18097	cubic feet

Off-site Water Quality Volume =	0	cubic
---------------------------------	---	-------

Storage for Sediment =	3619
------------------------	------

Total Capture Volume (required water quality volume(s) x 1.20) =	21716	cubic feet
---	--------------	-------------------

Required water quality volume(s) for the selected BMP

Designed as Required in RG-348

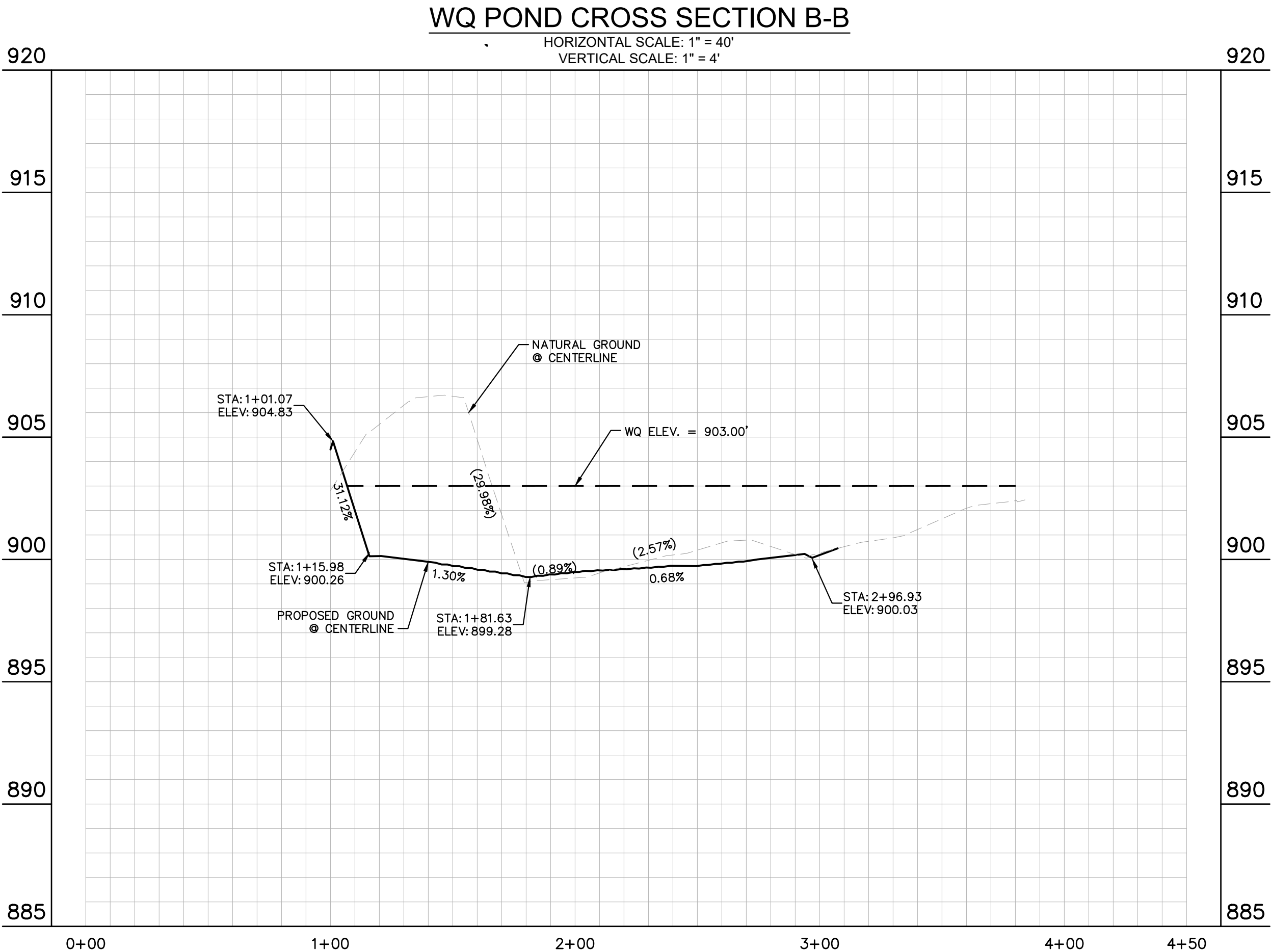
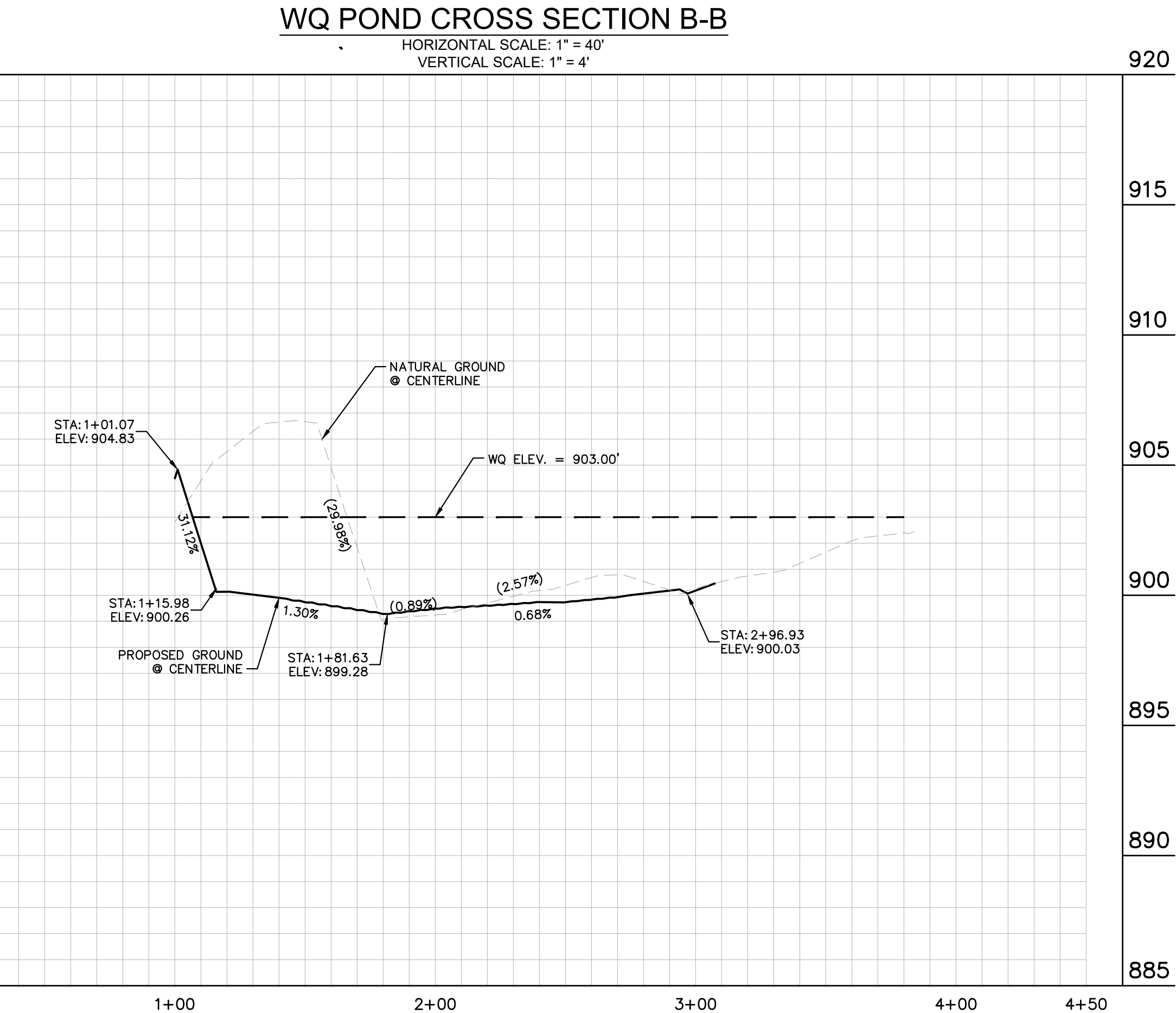
Water Quality Volume for combined basins =	21716	cubic feet
--	--------------	------------

Minimum filter basin area =	2172	square feet
-----------------------------	-------------	-------------

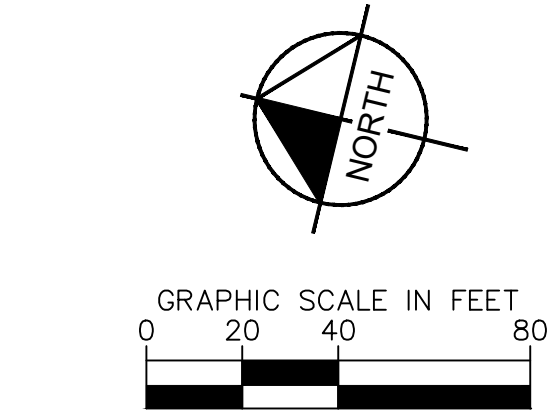
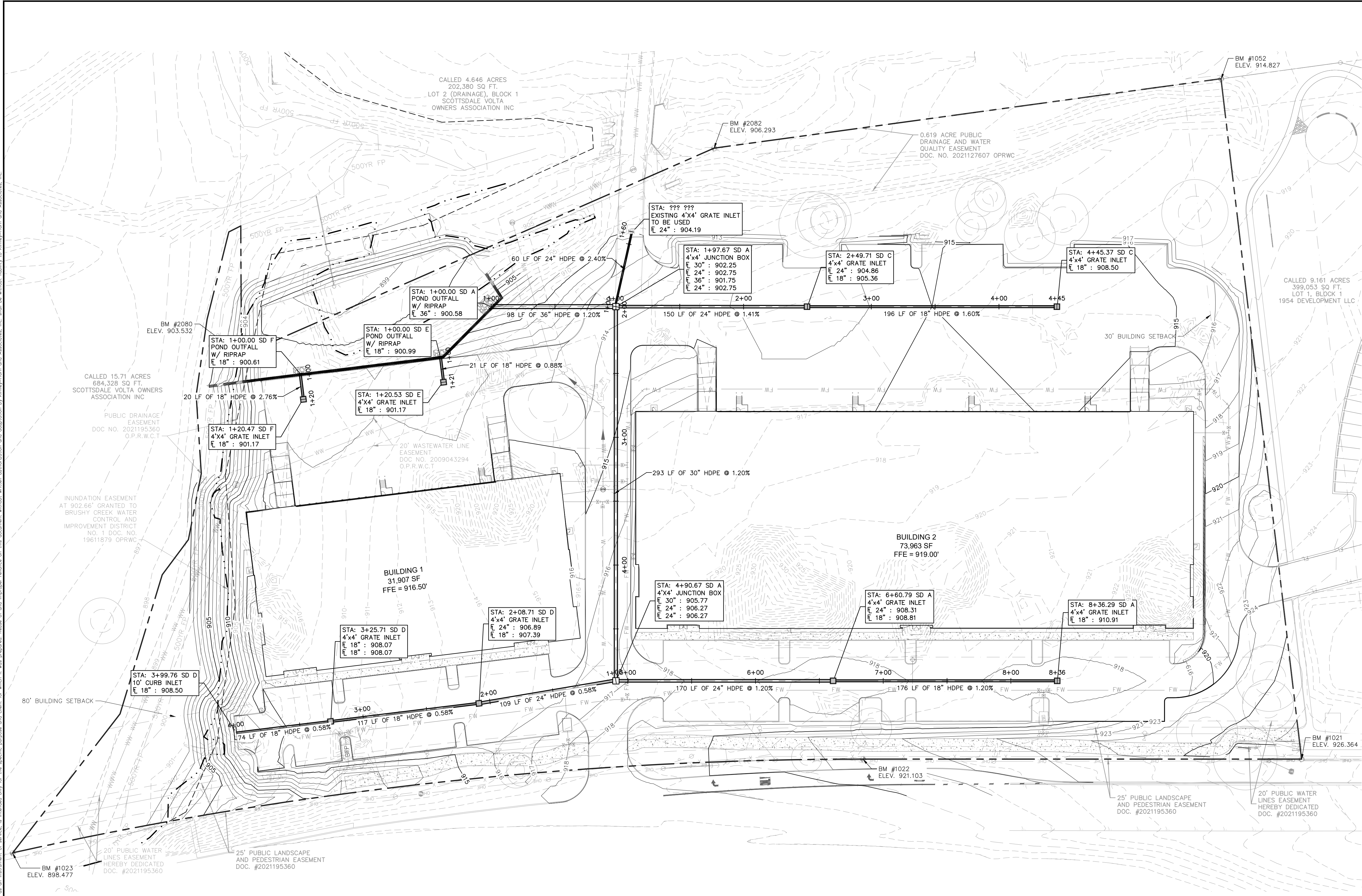
Maximum sedimentation basin area =	6877	square feet	For minimum water depth of 2 feet
------------------------------------	-------------	-------------	--

Minimum sedimentation basin area =	90	square feet	For maximum water depth of 8 feet
------------------------------------	----	-------------	-----------------------------------

Approved WQ Volume per SD-19-0020 (CF)	24507
Proposed WQ Volume per TCEQ (CF)	21375
Total Required WQ Volume per TCEQ (CF)	45882
Provided WQ Volume per Plans (CF)	46236



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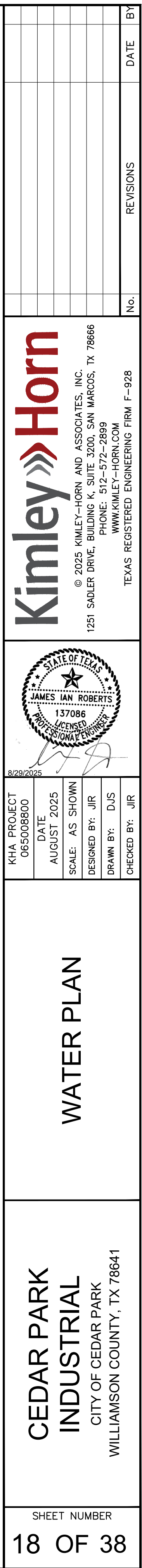
LEGEND	
	PROPERTY LINE
	PROPOSED WASTEWATER LINE
	PROPOSED WATER LINE
	FIRE WATER LINE
	PROPOSED WASTEWATER MANHOLE
	PROPOSED WASTEWATER CLEANOUT
	WASTEWATER FLOW DIRECTION
	PROPOSED STORM DRAIN INLET
	PROPOSED STORM DRAIN INLET
	EXISTING OVERHEAD POWER LINE
	EXISTING WATER LINE
	EXISTING WASTEWATER LINE
	EXISTING STORM SEWER LINE
	EXISTING POWER POLE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING WASTEWATER MANHOLE
	UTILITY CROSSING

NOTES:
1. CONTRACTOR TO TIE ALL ROOF DRAINS FROM BUILDINGS TO STORM SEWER SYSTEM.

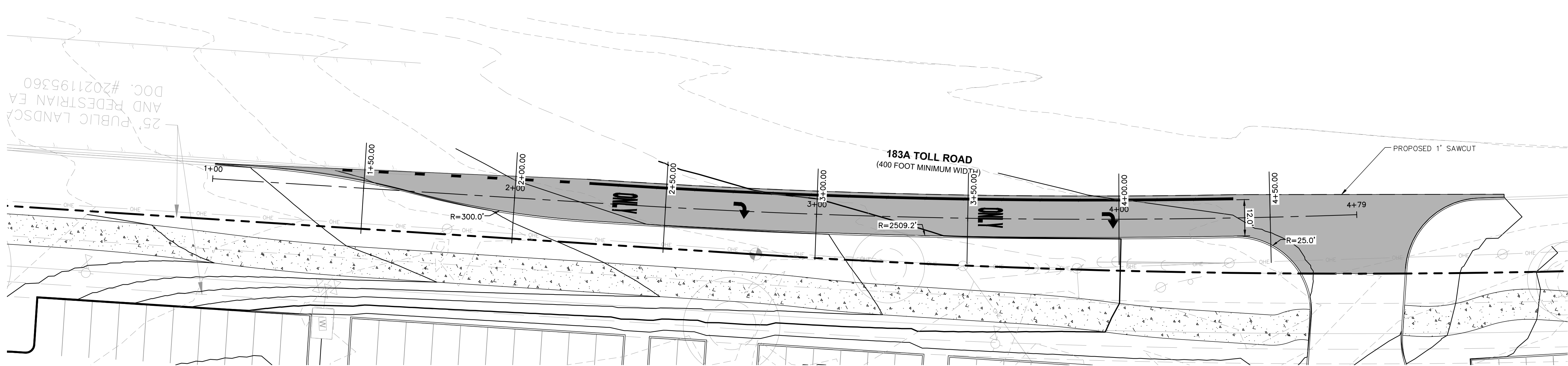
BENCHMARKS	
BM #1021	ELEV.=926.364
BM #1052	ELEV.=914.827
BM #2082	ELEV.=906.293
BM #2080	ELEV.=903.532
BM #1023	ELEV.=898.477
BM #1022	ELEV.=921.103



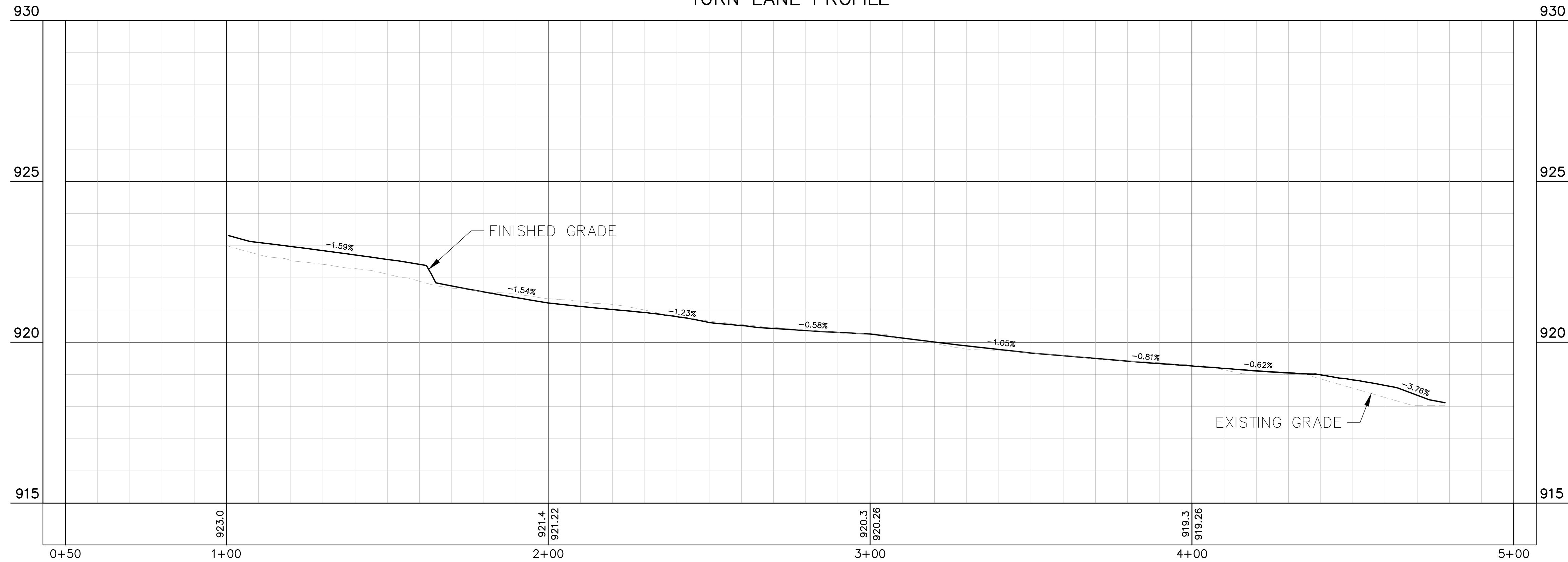
KHA PROJECT 065008800		DATE AUGUST 2025	SCALE: AS SHOWN	DESIGNED BY: JIR	DJS	CHECKED BY: JIR
STORM PLAN		CEDAR PARK INDUSTRIAL CITY OF CEDAR PARK WILLIAMSON COUNTY, TX 78641				
SHEET NUMBER 17 OF 38		Kimley-Horn © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 1251 SADLER DRIVE, BUILDING K, SUITE 3200, SAN MARCOS, TX 78666 PHONE: 512-572-2899 WWW.KIMLEY-HORN.COM TEXAS REGISTERED ENGINEERING FIRM F-928				
BY		DATE				
REVISIONS		No.				



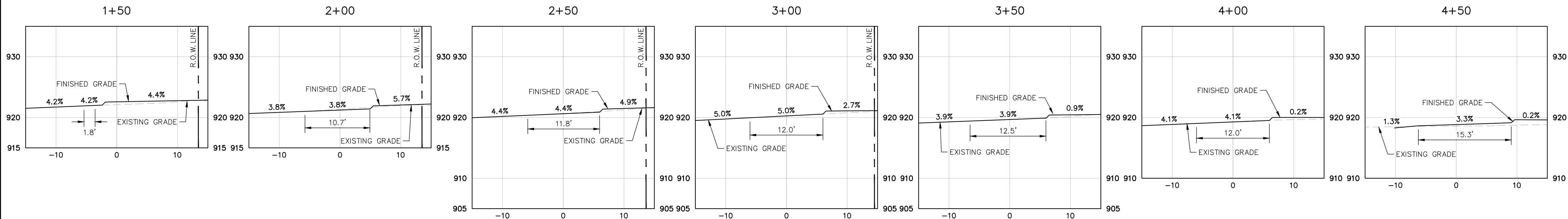
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TURN LANE PROFILE



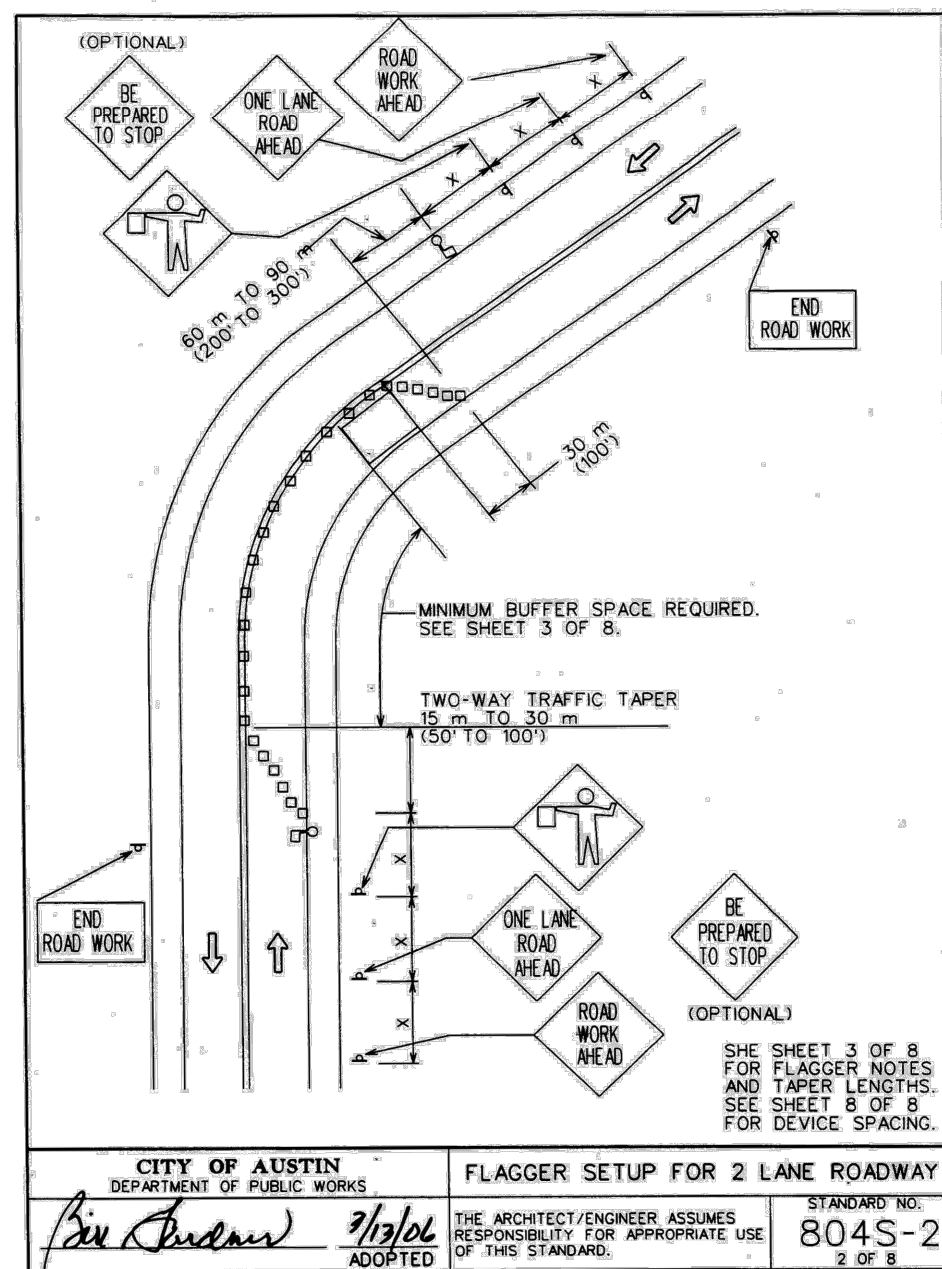
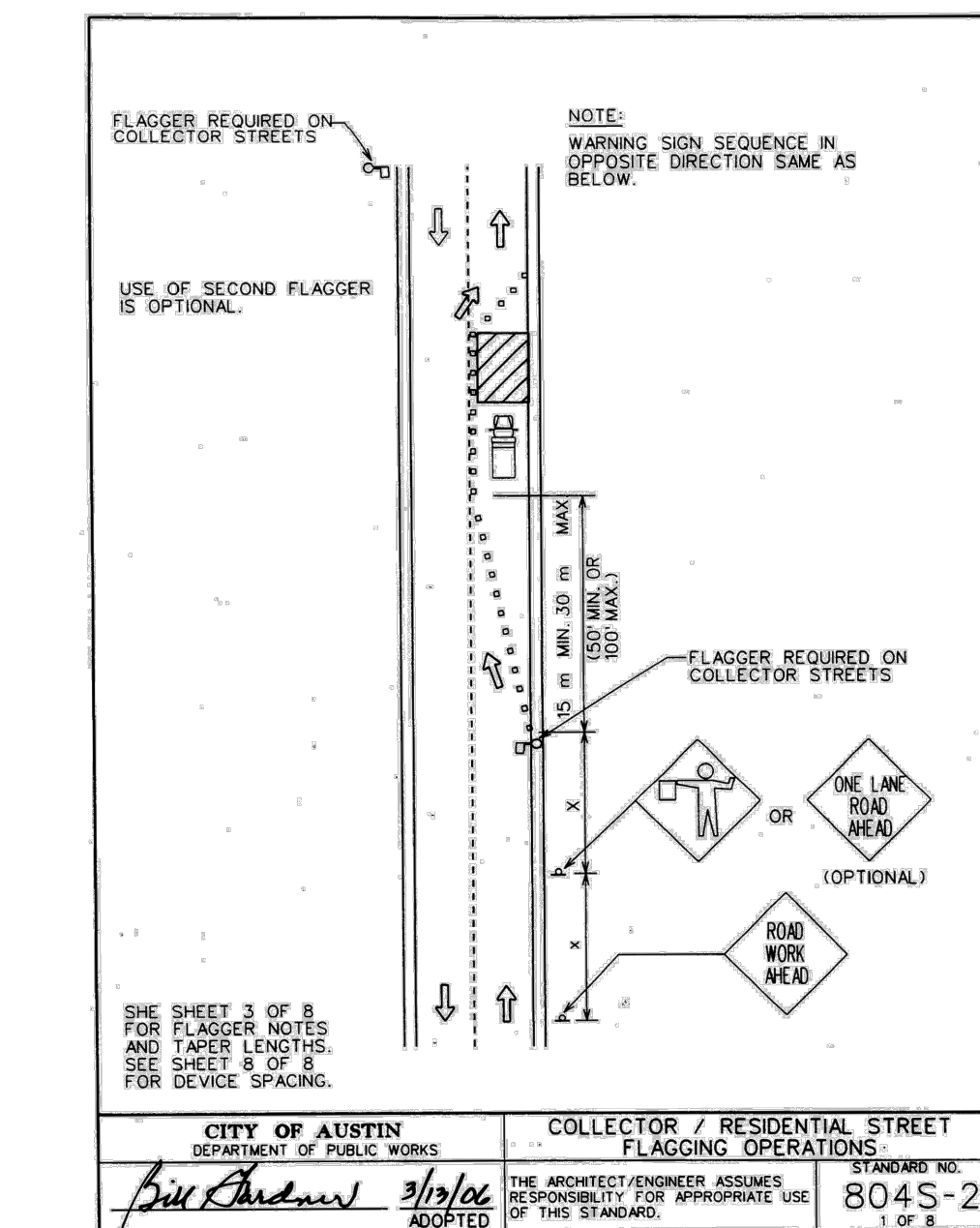
PROFILE SCALE
1" = 40' HORIZONTAL
1" = 4' VERTICAL



PROFILE SCALE
1" = 10' HORIZONTAL
1" = 1' VERTICAL

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TURN LANE PLAN & PROFILE											
CEDAR PARK INDUSTRIAL CITY OF CEDAR PARK WILLIAMSON COUNTY, TX 78641											
SHEET NUMBER 20 OF 38											

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1. FOR DAYTIME WORK, THE FLAGGER SHALL WEAR AN APPROVED BRIGHTLY COLORED VEST, FOR NIGHTTIME WORK, THE VEST SHALL BE RETROREFLECTIVE, THE RETROREFLECTIVE MATERIAL SHALL BE ORANGE, YELLOW, WHITE, SILVER, STRONG YELLOW, GREEN OR A FLOURESCENT VERSION OF THESE COLORS AND SHALL BE VISIBLE AT A MINIMUM DISTANCE OF 305 M (1,000').

2. FOR LOW-VOLUME APPLICATIONS, A SINGLE FLAGGER MAY BE ADEQUATE, WHERE ONE FLAGGER CAN BE USED, SUCH AS FOR SHORT WORK AREAS ON STRAIGHT ROADWAYS, THE FLAGGER MUST BE VISIBLE TO APPROACHING TRAFFIC FROM BOTH DIRECTIONS.

3. FLAGGERS SHALL USE ONLY STOP-AND-YIELD PADDOLE TO DIRECT TRAFFIC UNLESS WORKING IN A SIGNALIZED INTERSECTION WHERE DRIVERS MAY BE CONFUSED BY THE SIGN PADDOLE, HAND SIGNAL MAY BE USED IN THESE SITUATIONS.

4. FLAGGERS SHALL ENSURE THAT ALL REQUIRED SIGNING IS IN PLACE PRIOR TO BEGINNING FLAGGING OPERATIONS.

5. FLAGGERS SHALL NOT PERFORM WORK THAT IS NOT RELATED TO FLAGGING WHILE ON DUTY.

6. FLAGGERS MAY CARRY AIR HORNS OR WHISTLES TO WARN WORKERS OF AN EMERGENCY CONDITION.

7. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS WHEN OUT OF CLEAR VIEW OF EACH OTHER.

8. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.

TAPER LENGTHS

SPEED (mph)	SPEED* (mph)	LENGTH (meters)	LENGTH (feet)
30	20	11	35
40	25	17	55
50	30	26	85
55	35	36	120
65	40	51	170
70	45	66	220
80	50	84	280
90	55	101	335
95	60	125	415
105	65	146	485

*POSTED SPEED

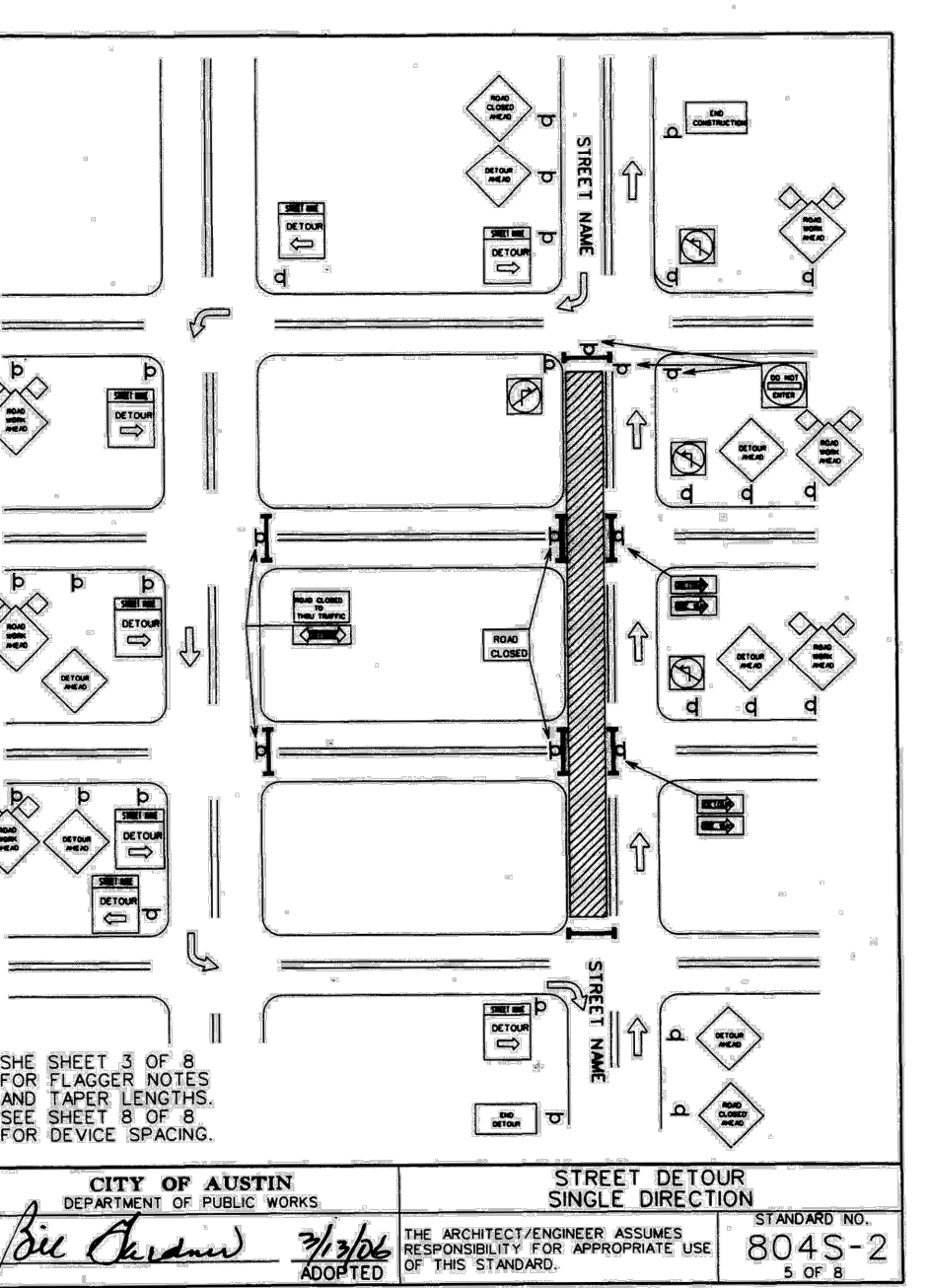
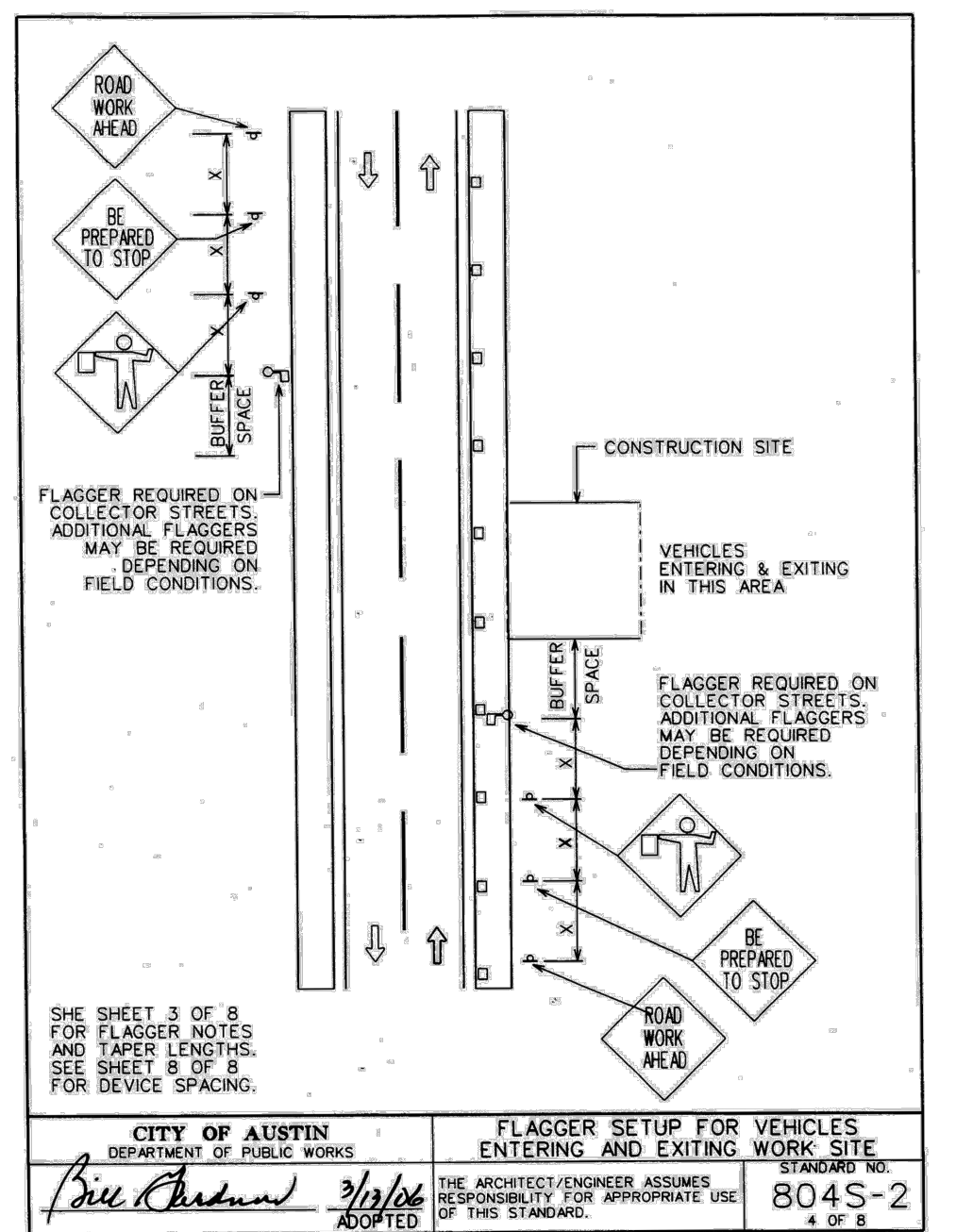
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

FLAGGER SETUP FOR 2 LANE ROADWAY

STANDING NO. 8045-2

THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.

3 OF 8

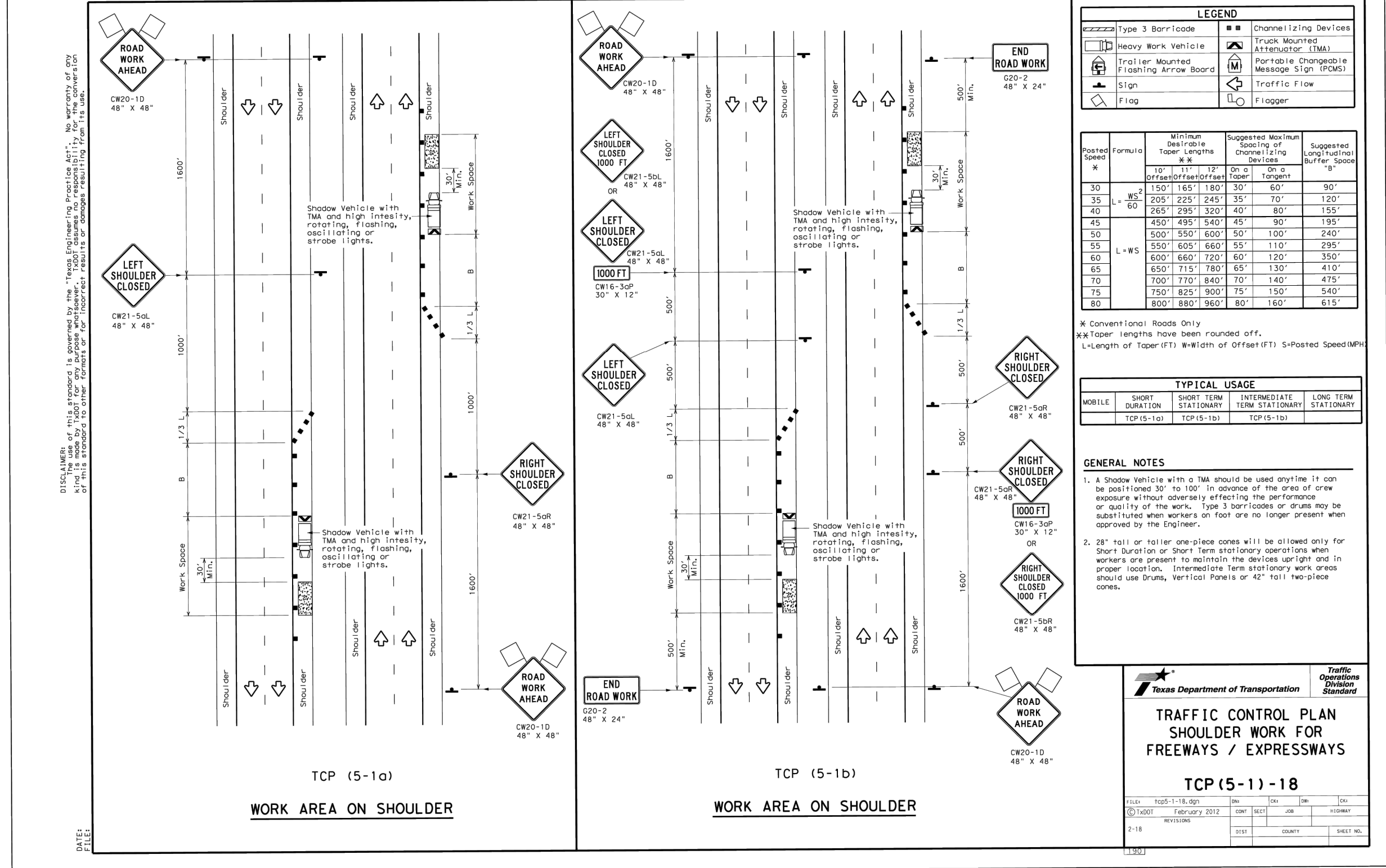
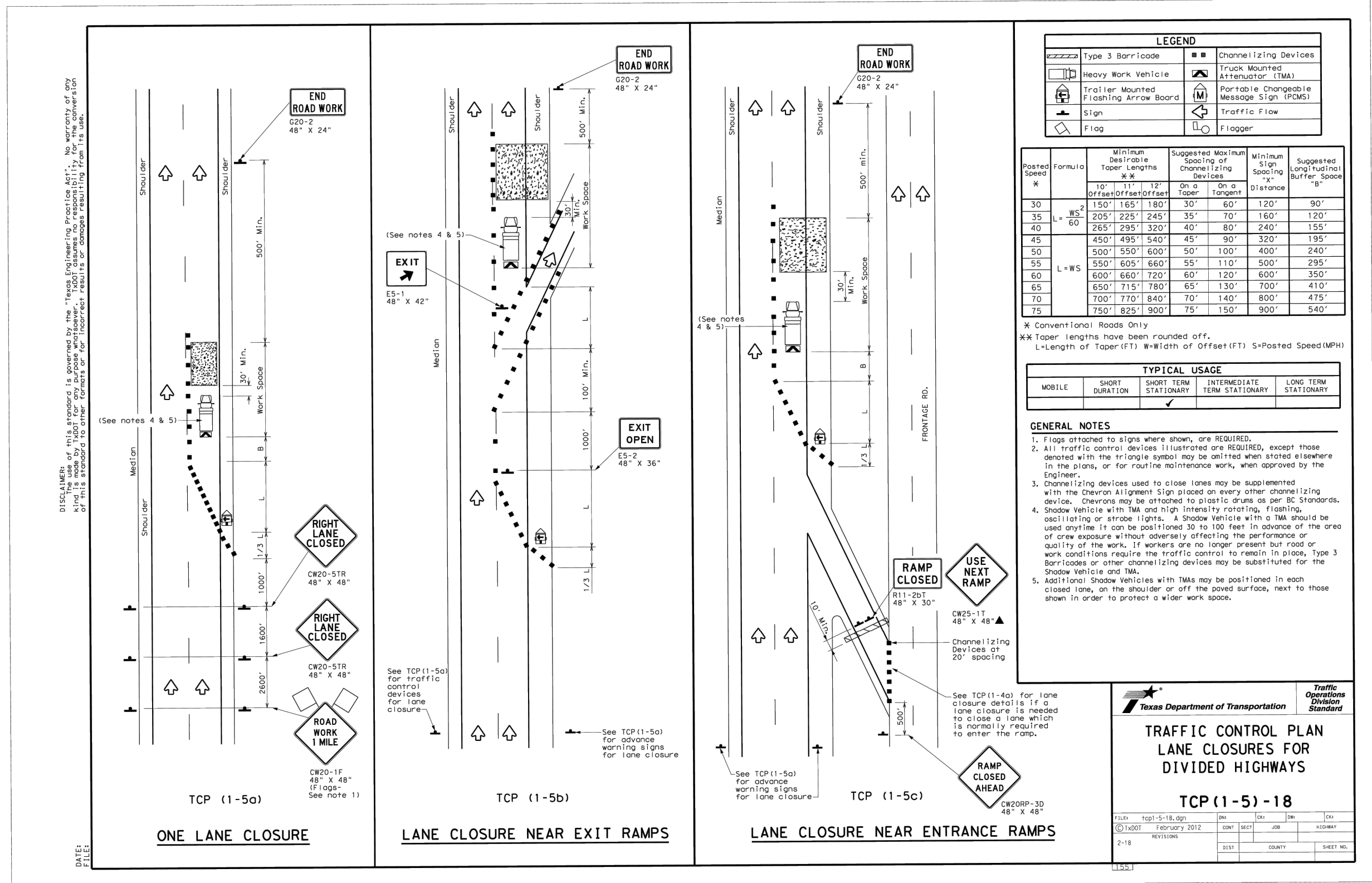
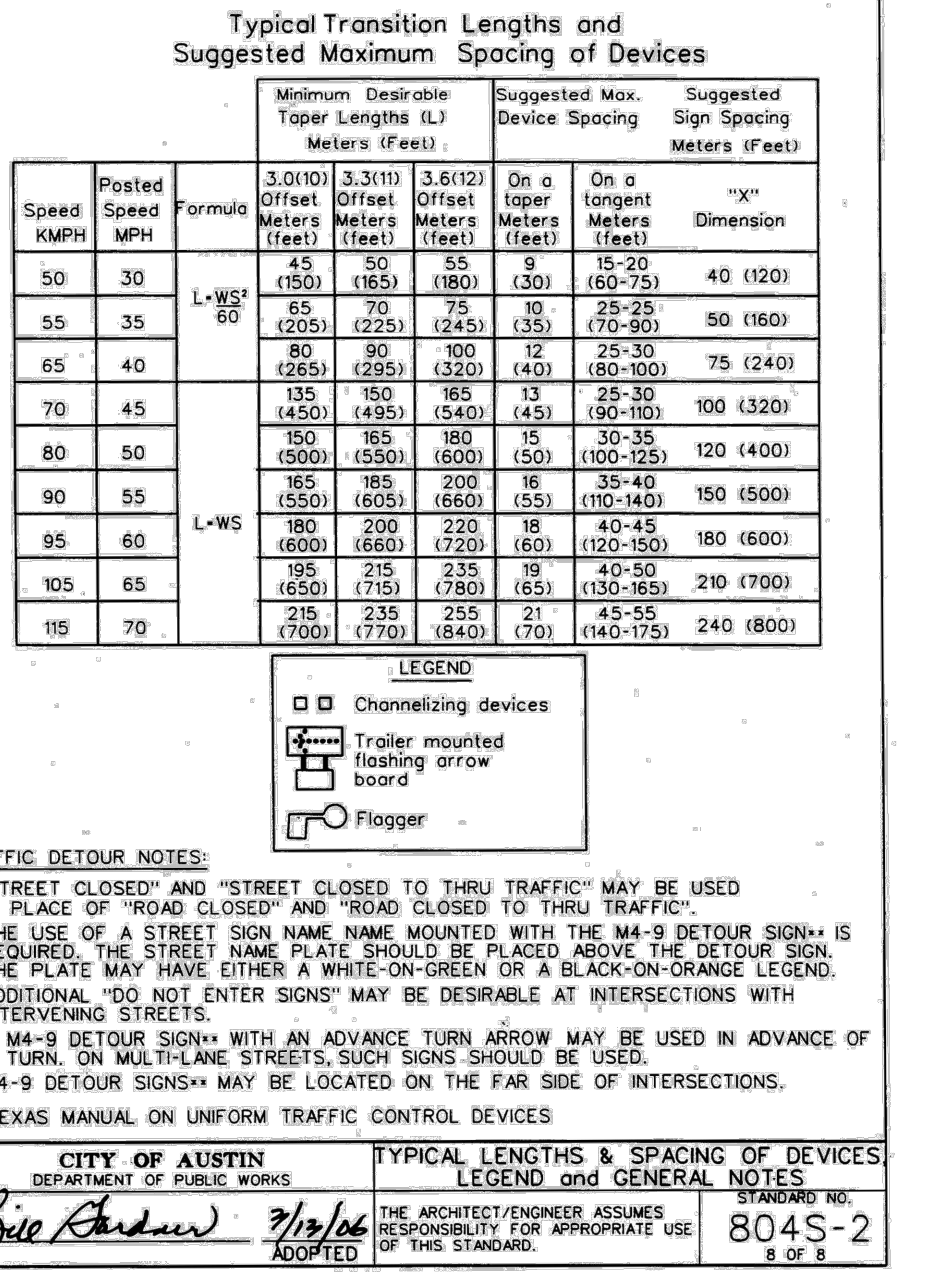
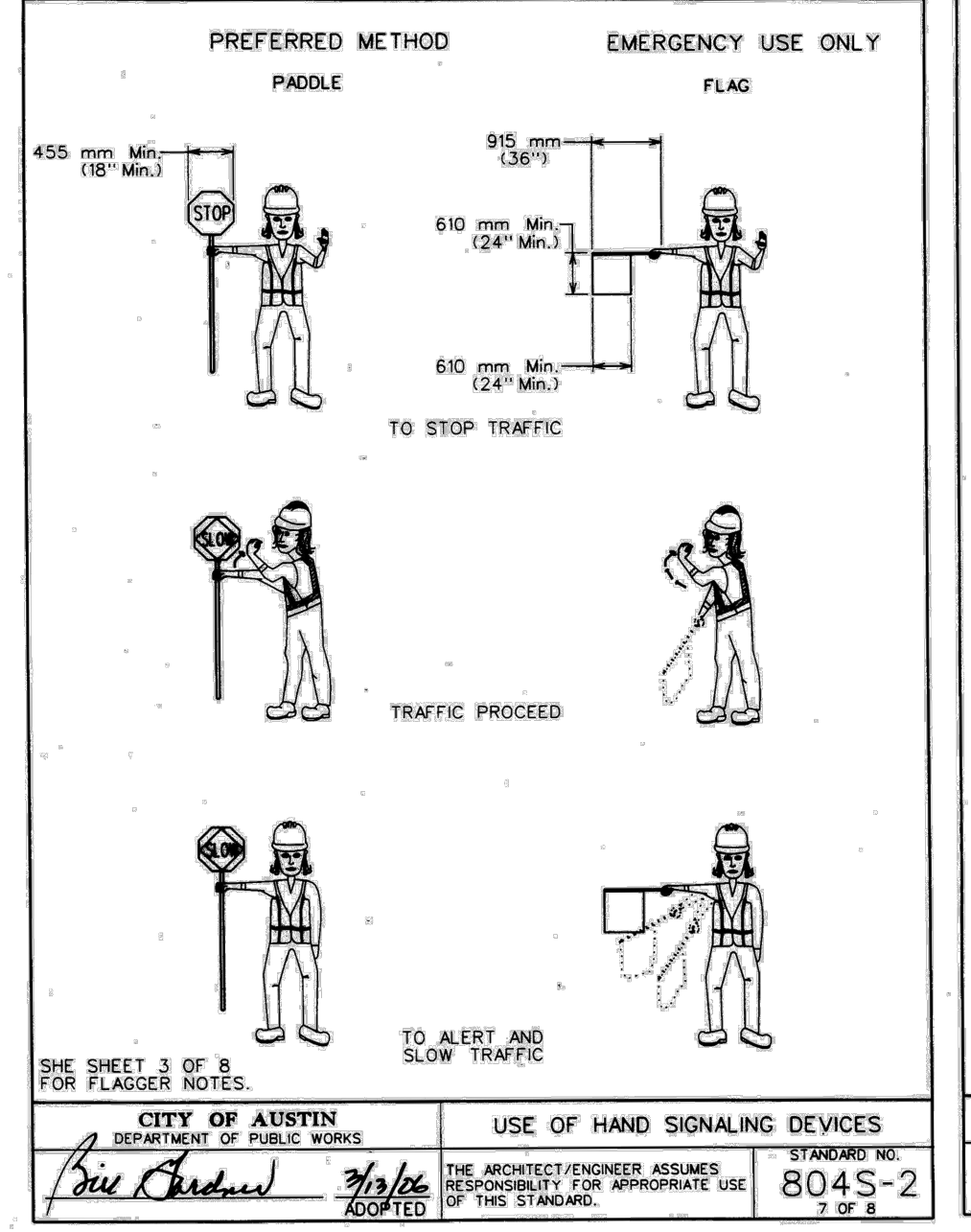


SHEET 3 OF 8
 FOR FLAGGER NOTES
 AND TAPE LENGTHS.
 SEE SHEET 2 OF 8
 FOR DEVICE SPACING.

CITY OF ALUSTIN
 DEPARTMENT OF PUBLIC WORKS
 3/3/06
 ADOPTED

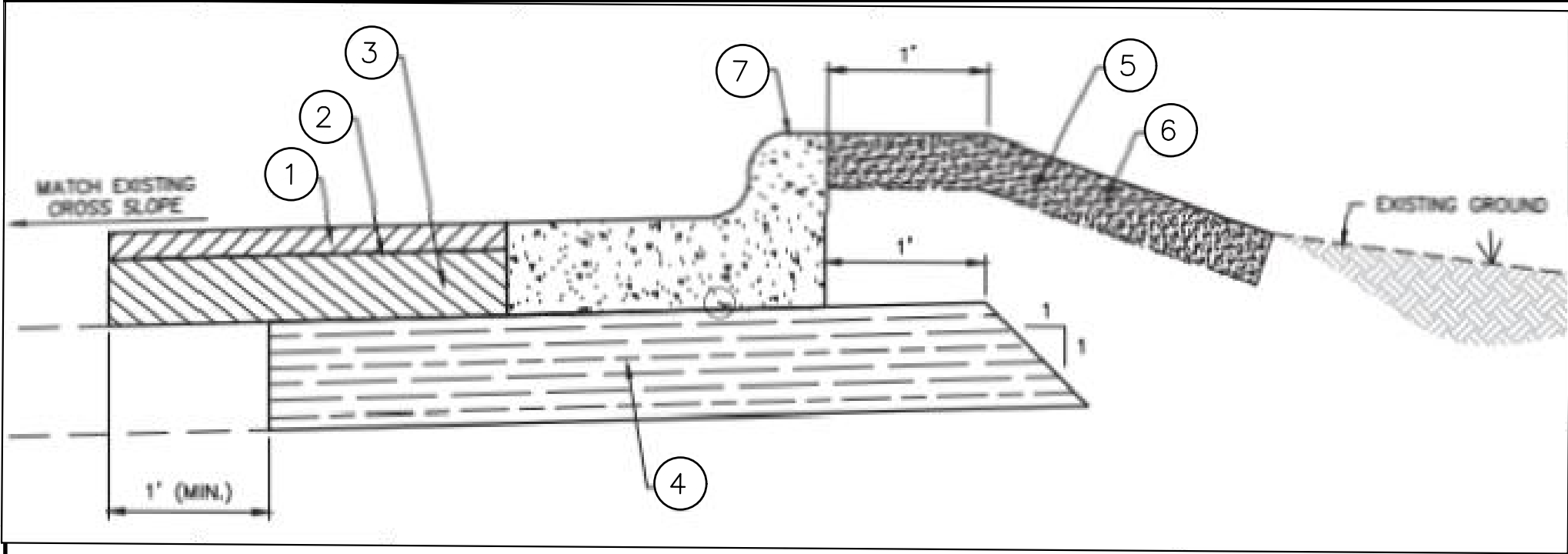
STREET DETOUR
 BOTH DIRECTIONS

STANDARD NO.
 804S-2
 8 OF 8



KHA PROJECT 065008900	DATE AUGUST 2025	SCALE: AS SHOWN	DESIGNED BY: JIR	DRAWN BY: DJS	CHECKED BY: JIR	<div><div><div>STATE OF TEXAS</div><div><div>JAMES IAN ROBERTS 137086 MECHANICAL ENGINEERING</div></div><div>8/28/2025</div></div></div>	<div><div>CEDAR PARK INDUSTRIAL</div><div>CITY OF CEDAR PARK</div><div>WILLIAMSON COUNTY, TX 78641</div></div>	<div>TRAFFIC CONTROL DETAILS</div>	<div><div><div>© 2025 KIMLEY—HORN AND ASSOCIATES, INC. 1251 SADLER DRIVE BUILDING K, SUITE 3200, SAN MARCOS, TX 78666 PHONE: 512-572-2899 WWW.KIMLEY-HORN.COM</div></div><div>Kimley»Horn</div></div>	<div><div>No.</div><div>REVISIONS</div><div>DATE</div><div>BY</div></div>	

Patched By: Jones, Daron Date: August 29, 2025 09:45:46am File Path: K:\SMA_Civil\06181001-Cedar Park Industrial\City of Cedar Park\Drawings\CD-Standard.dwg
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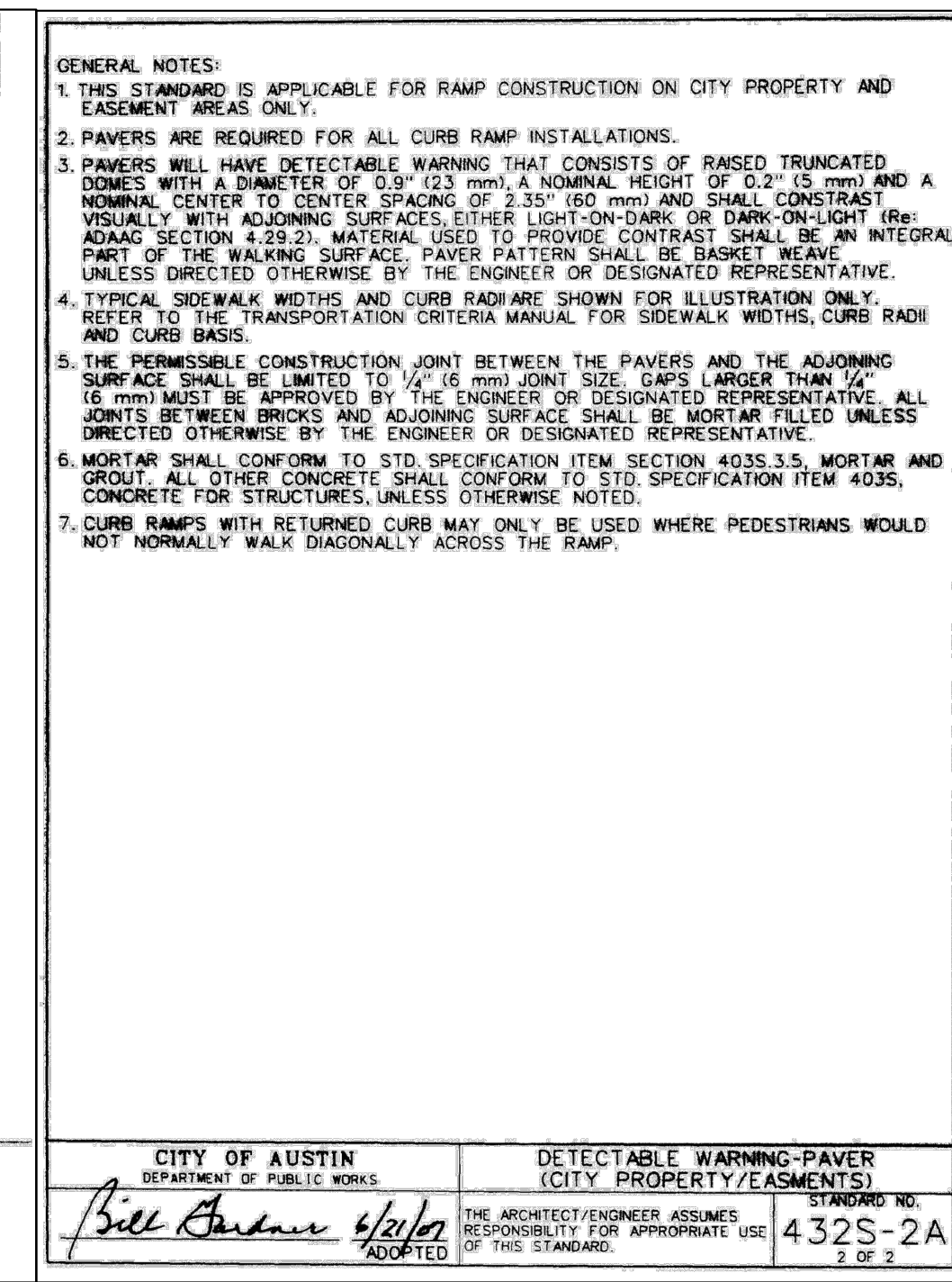
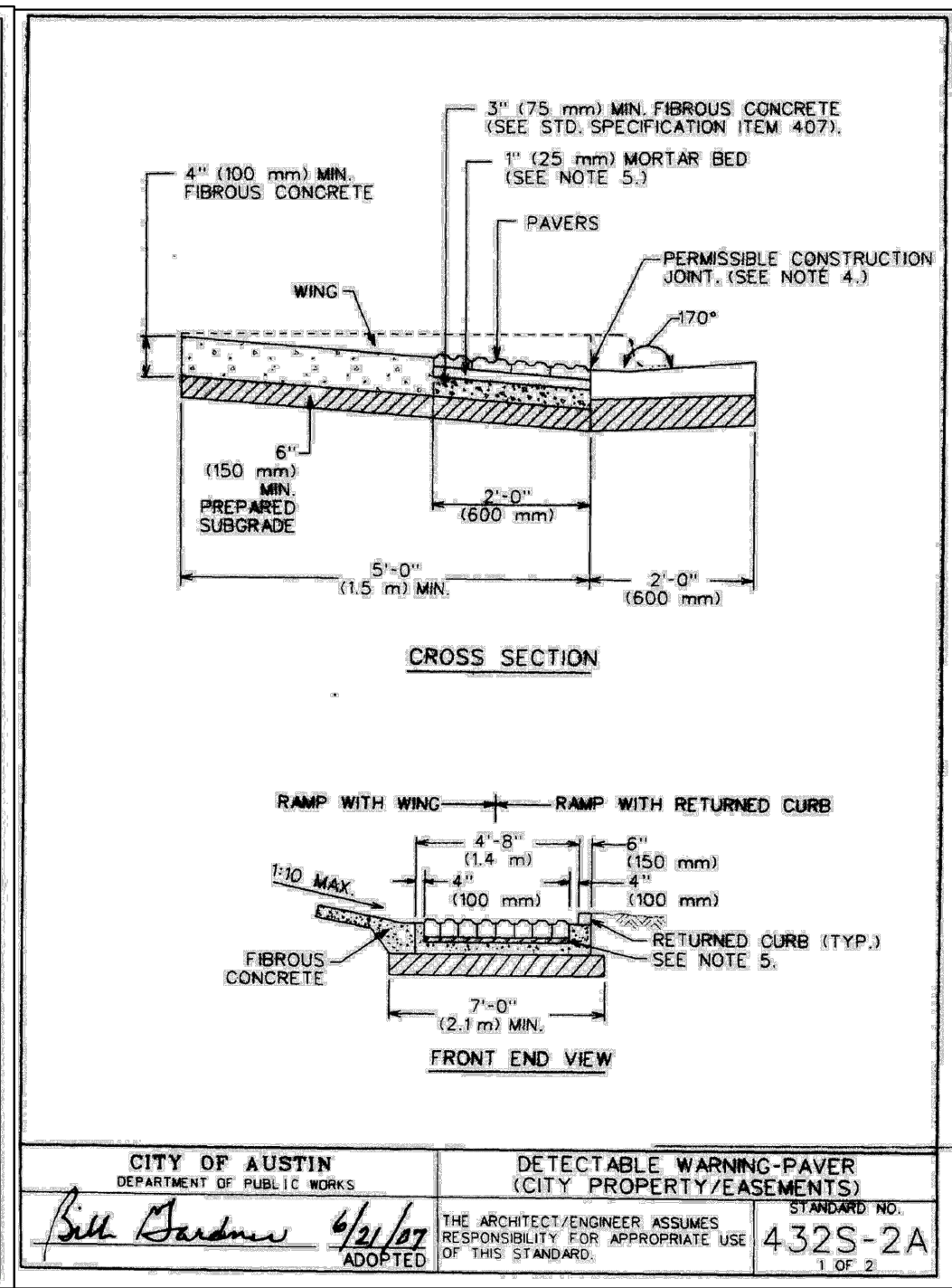
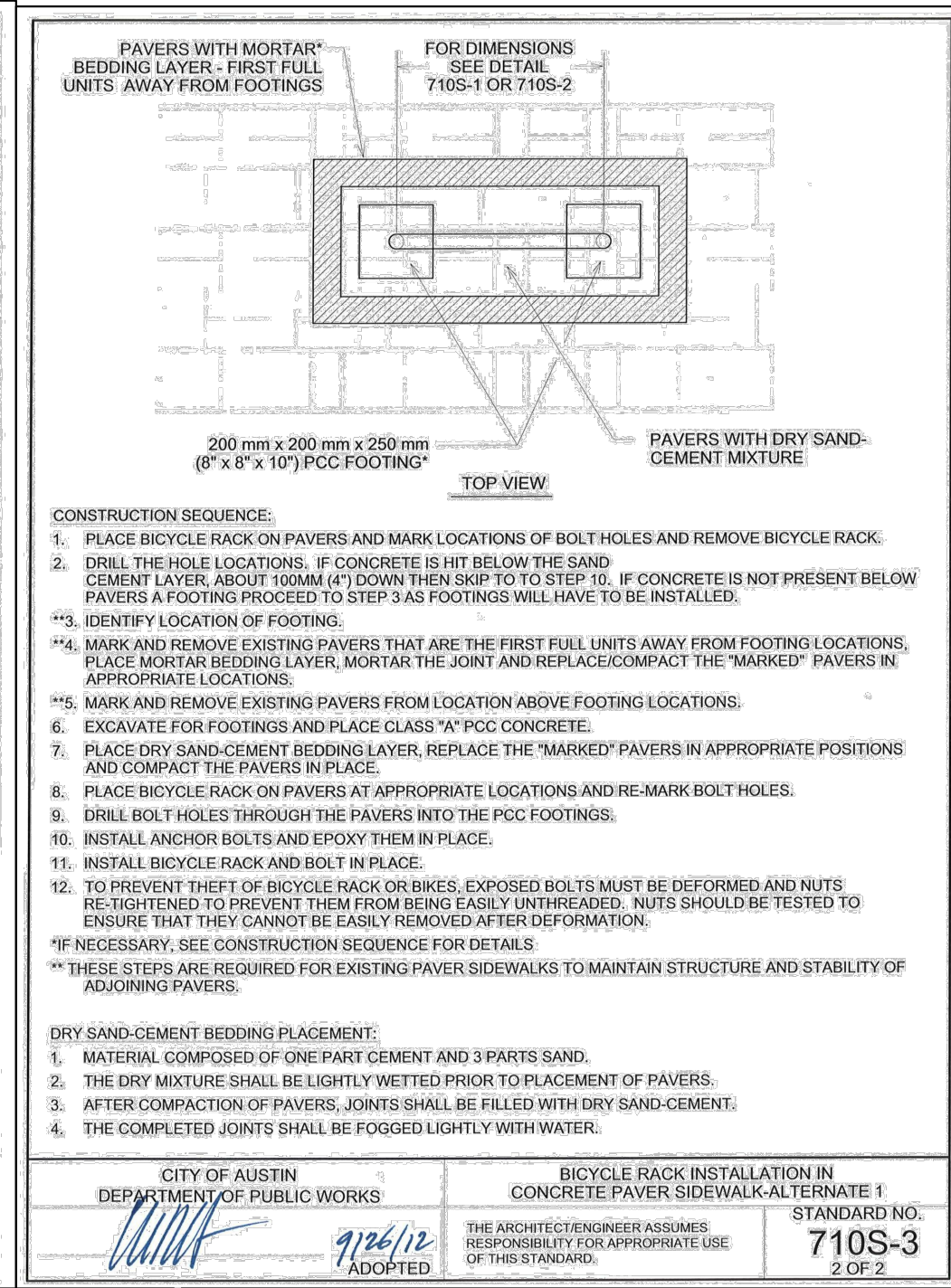
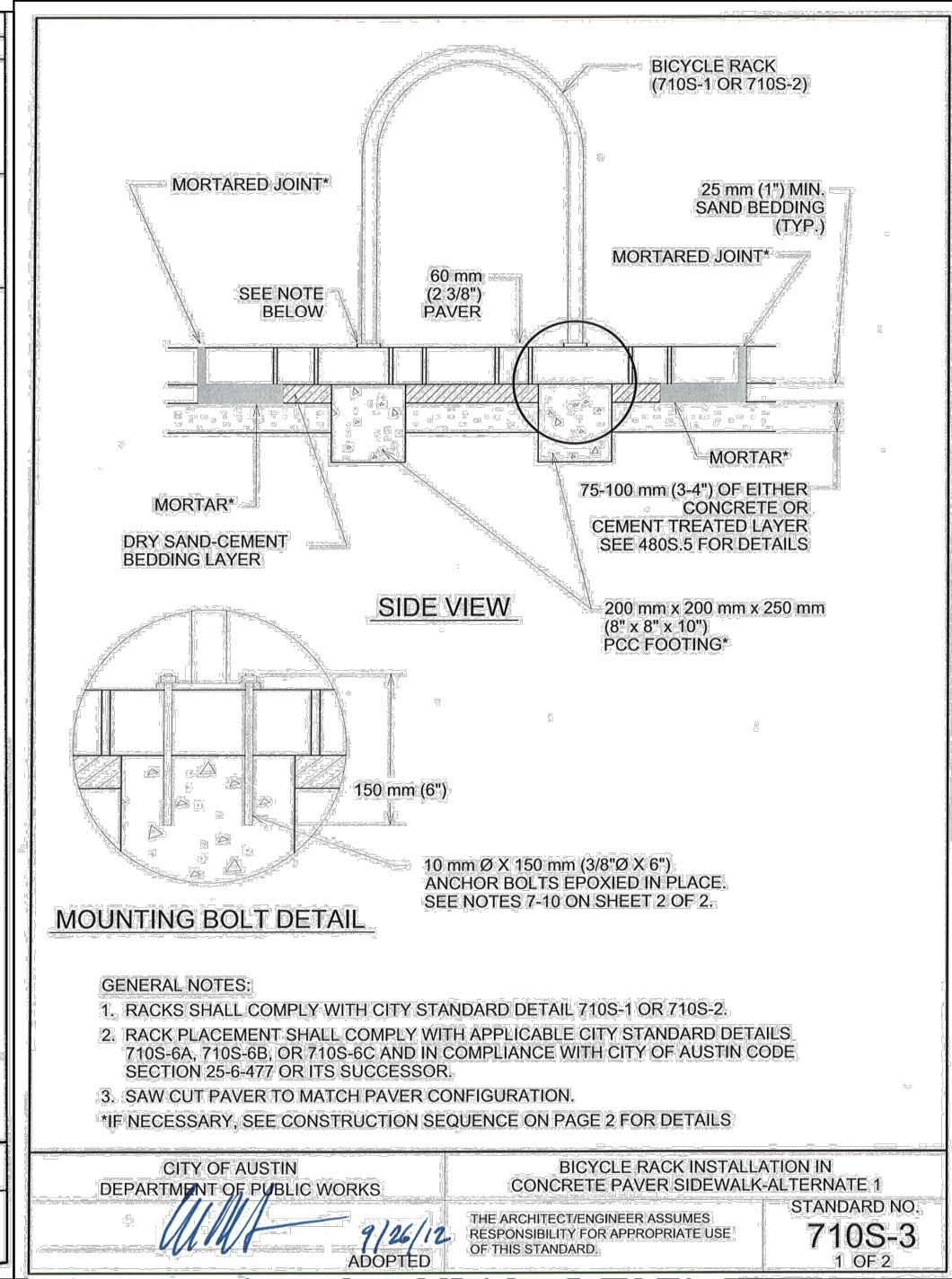
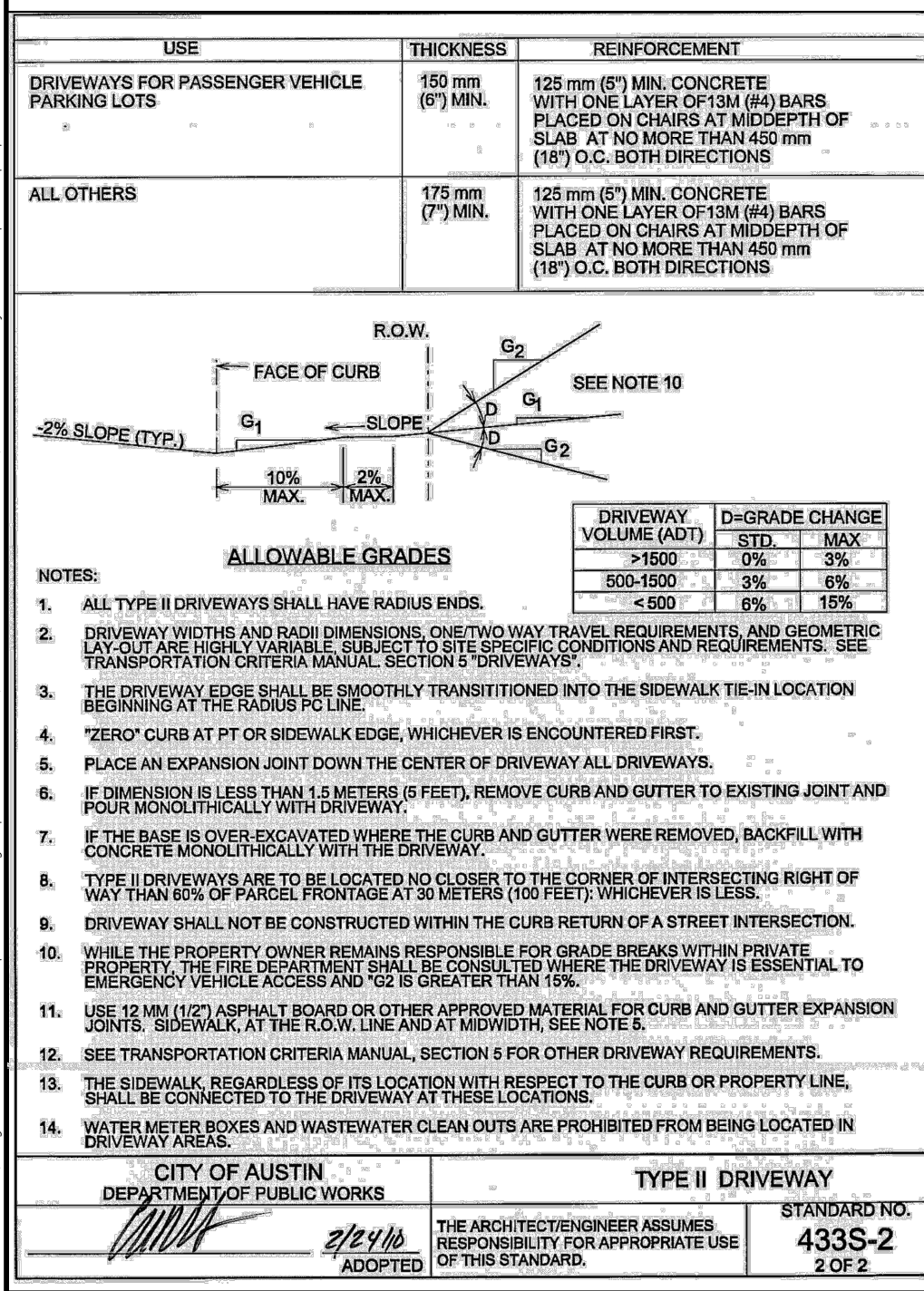
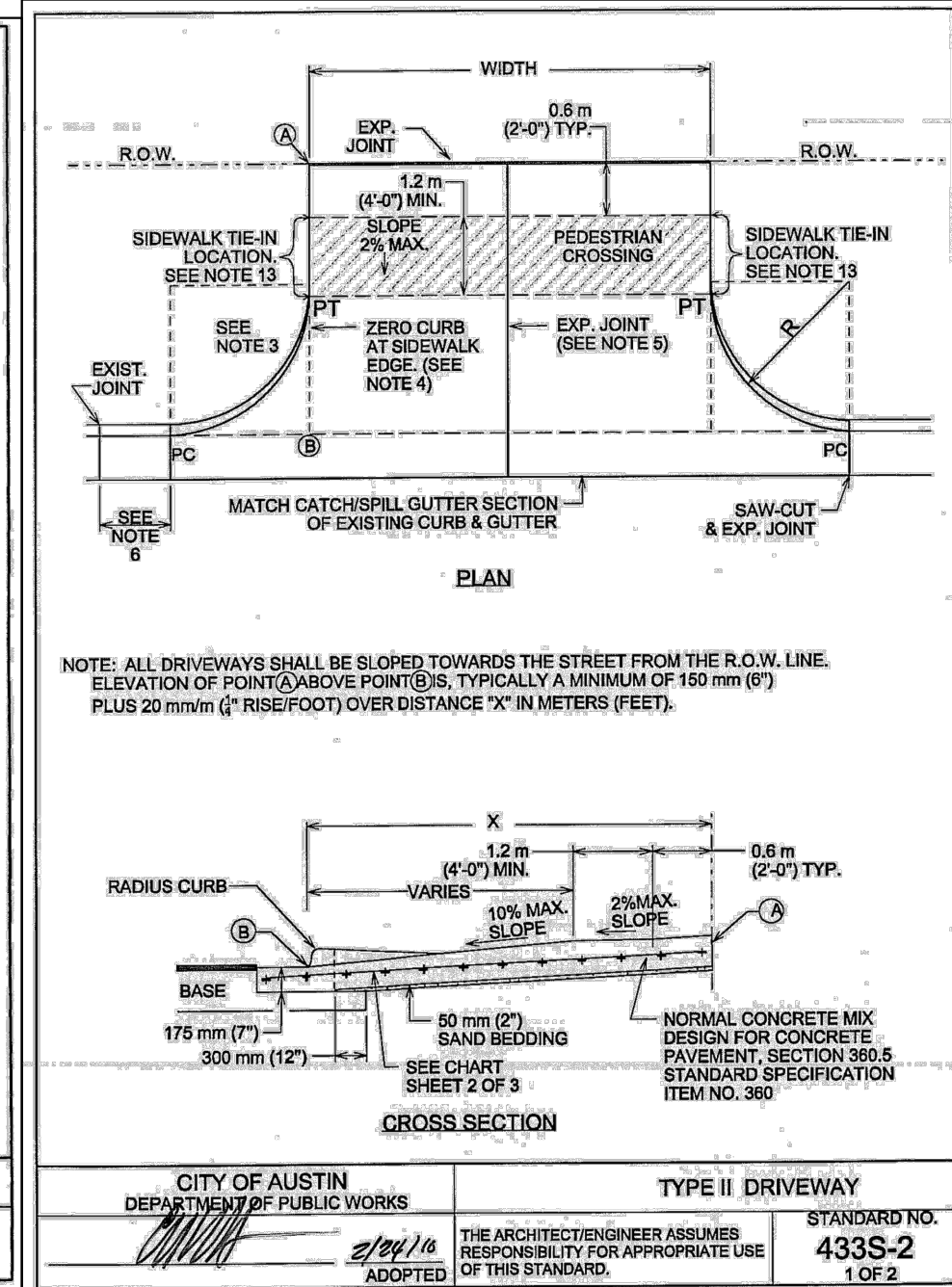
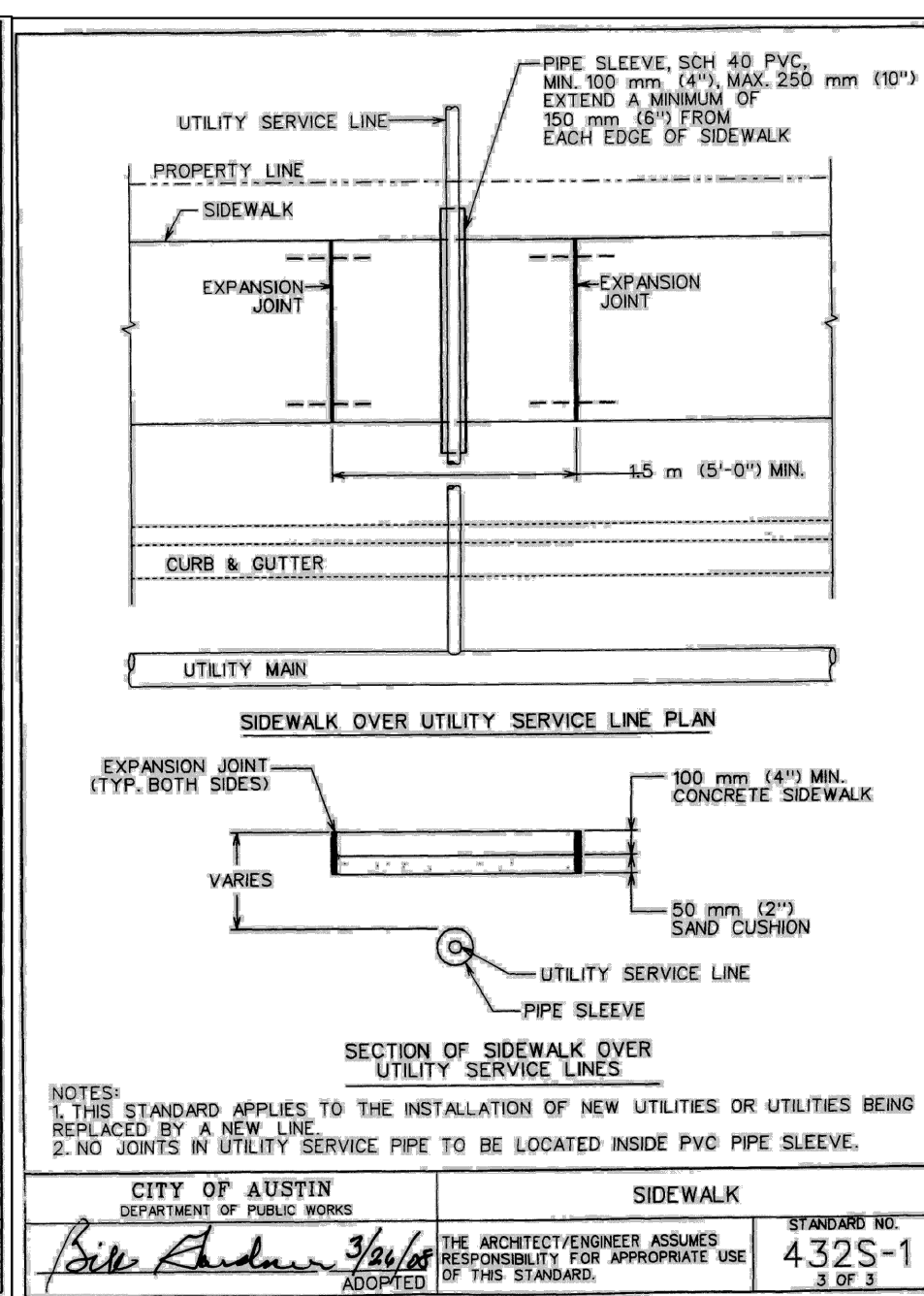
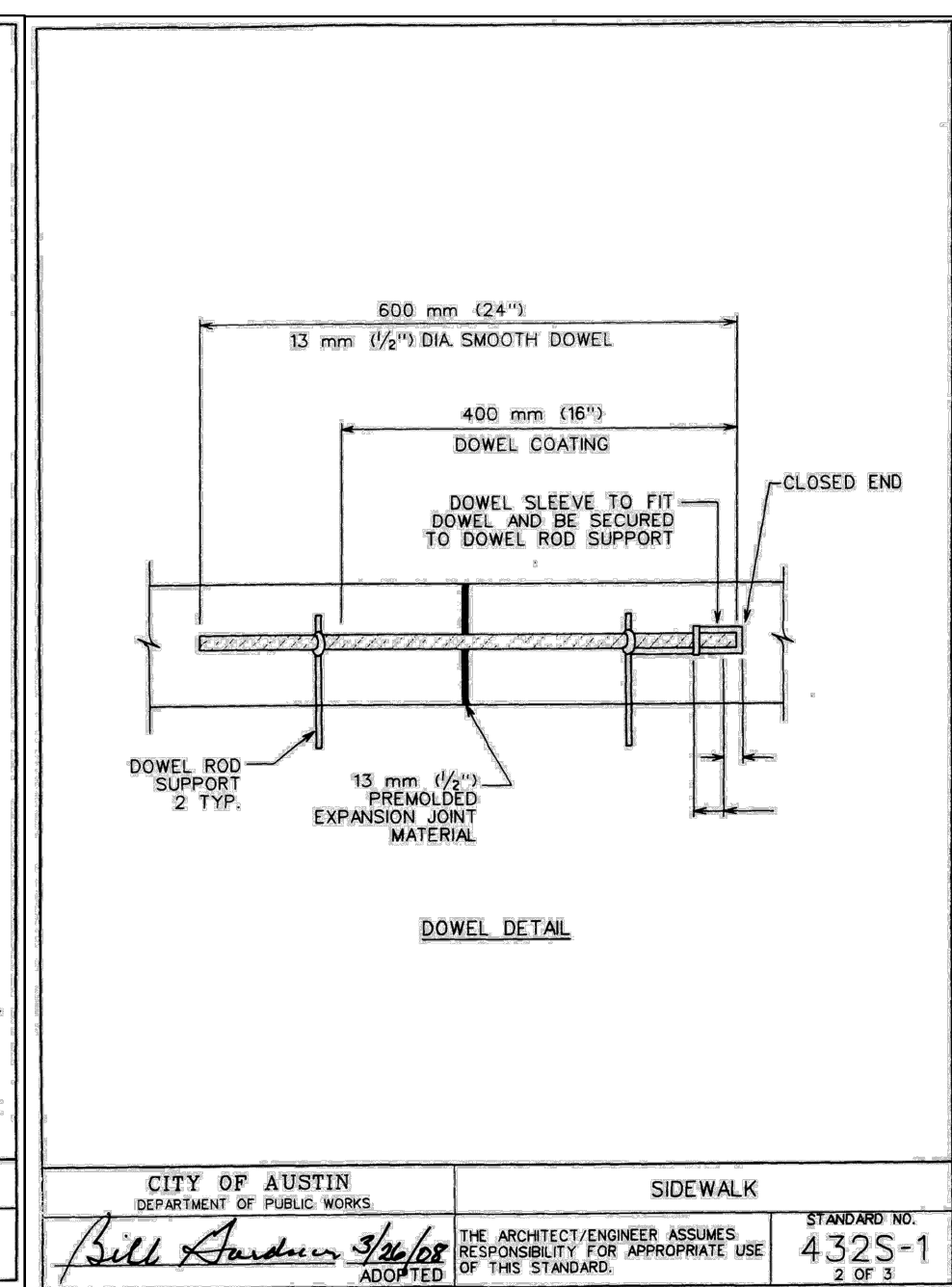
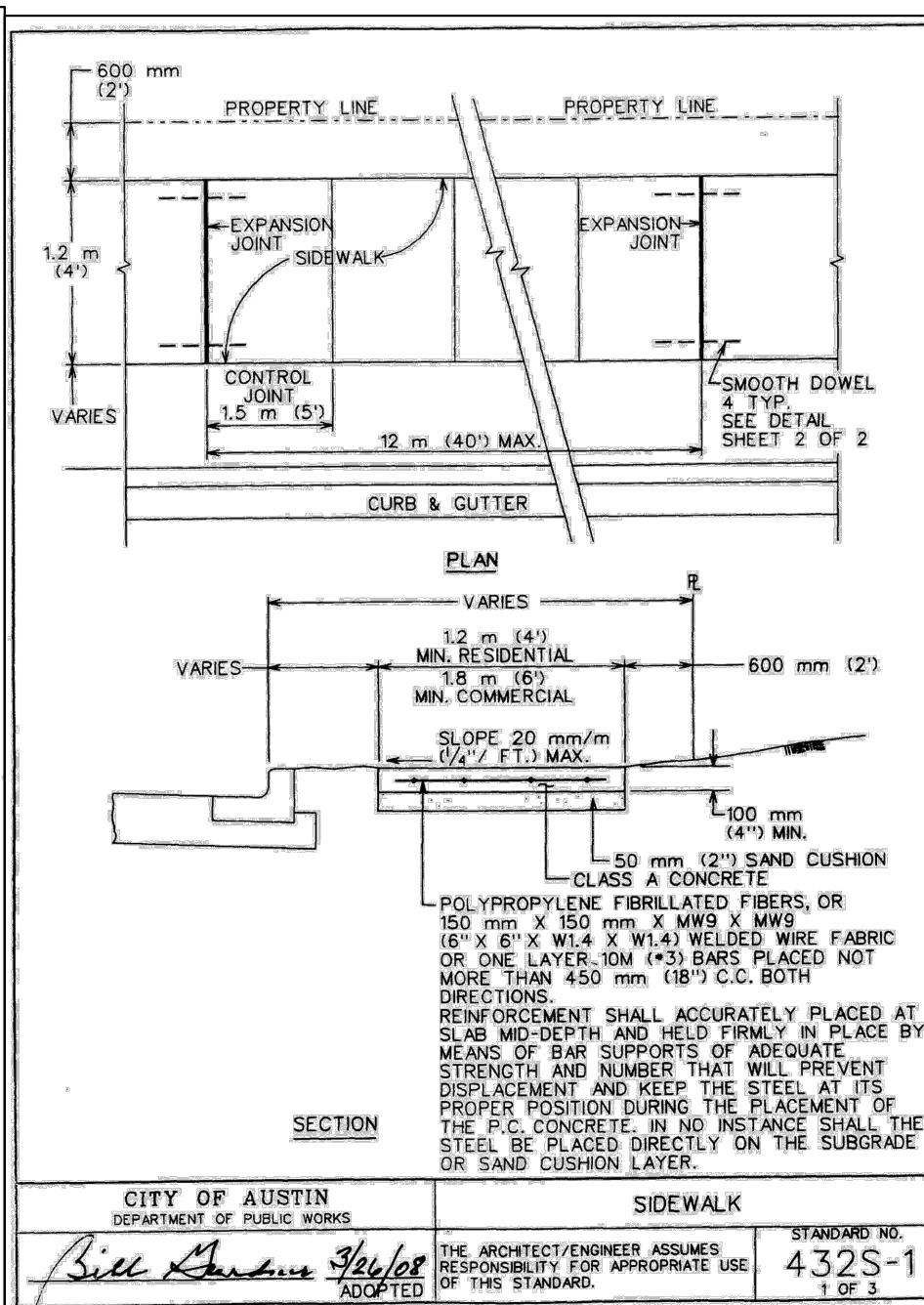
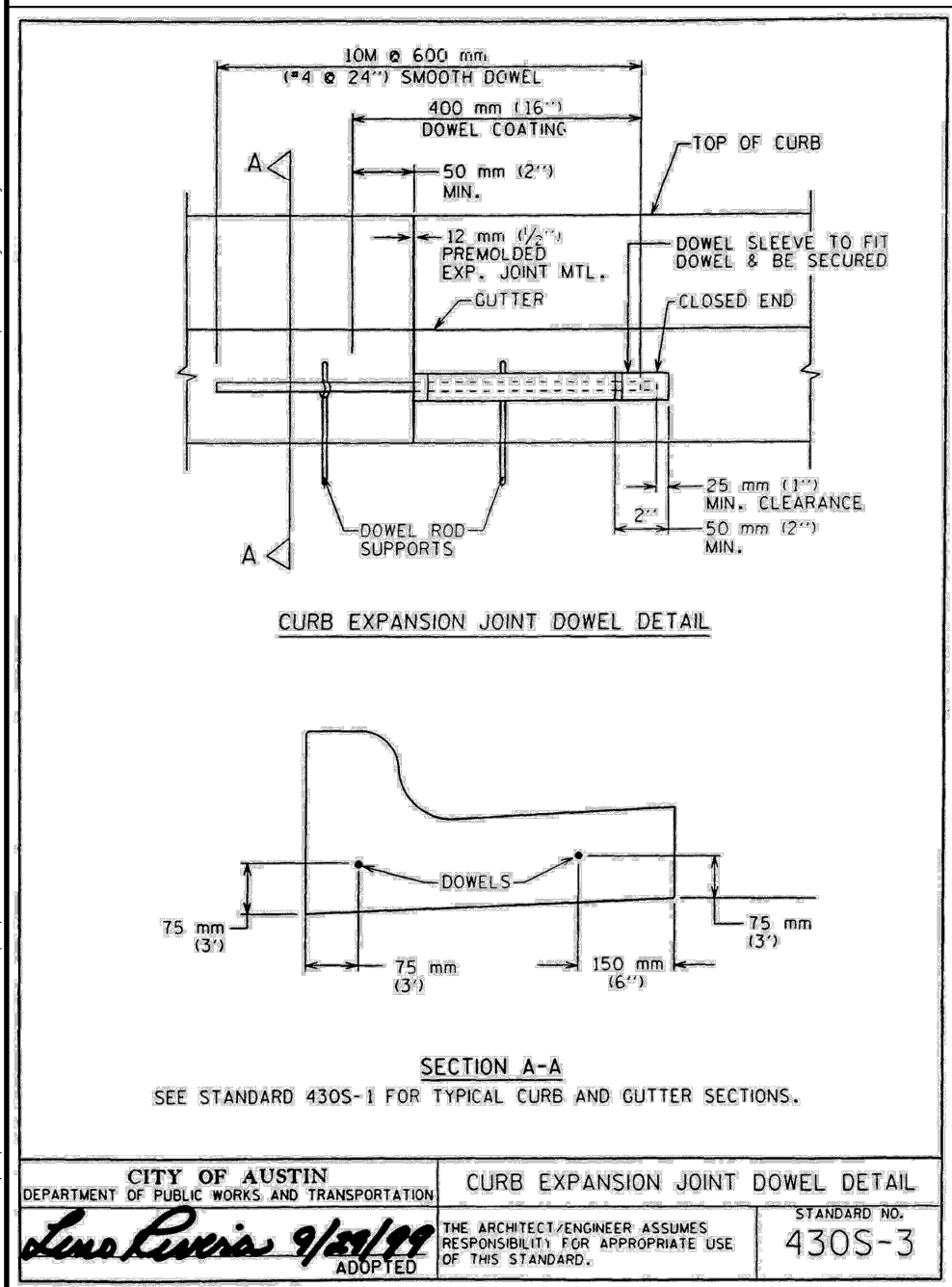
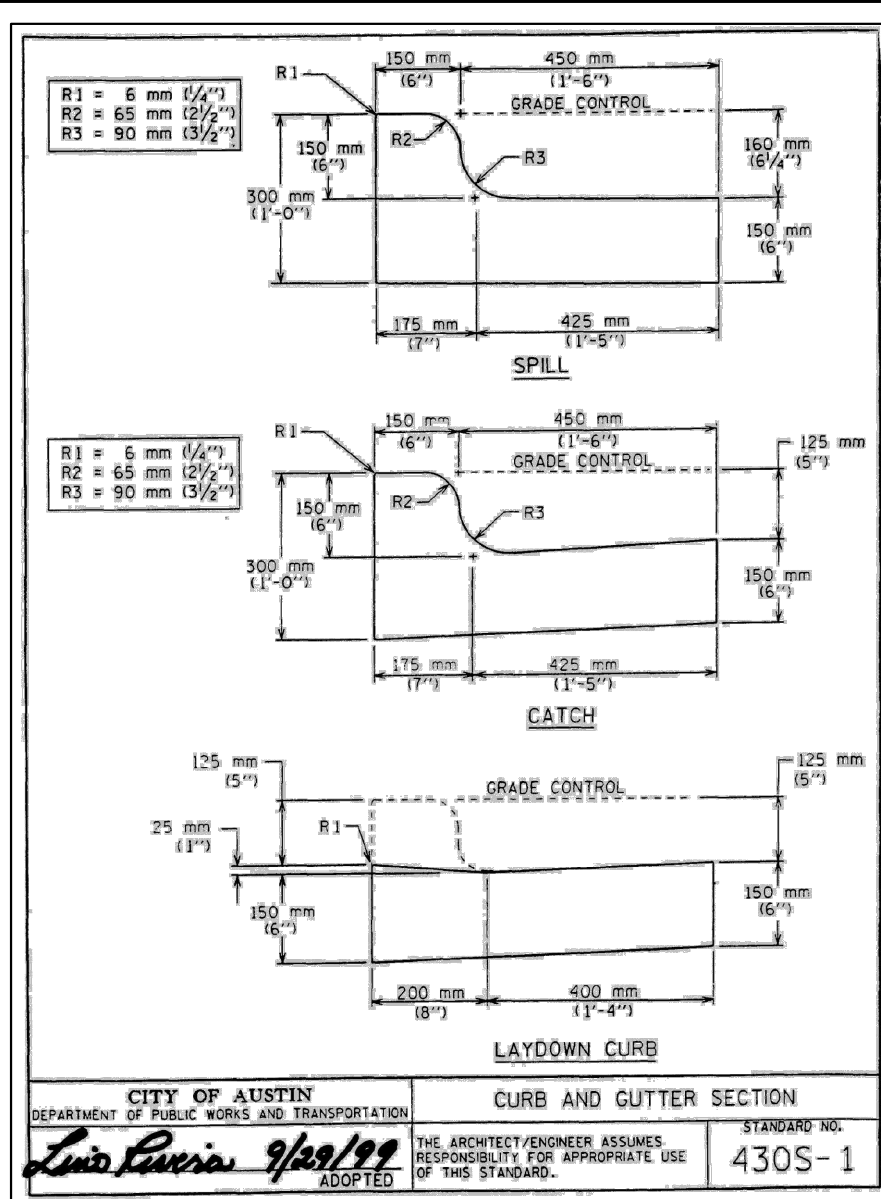
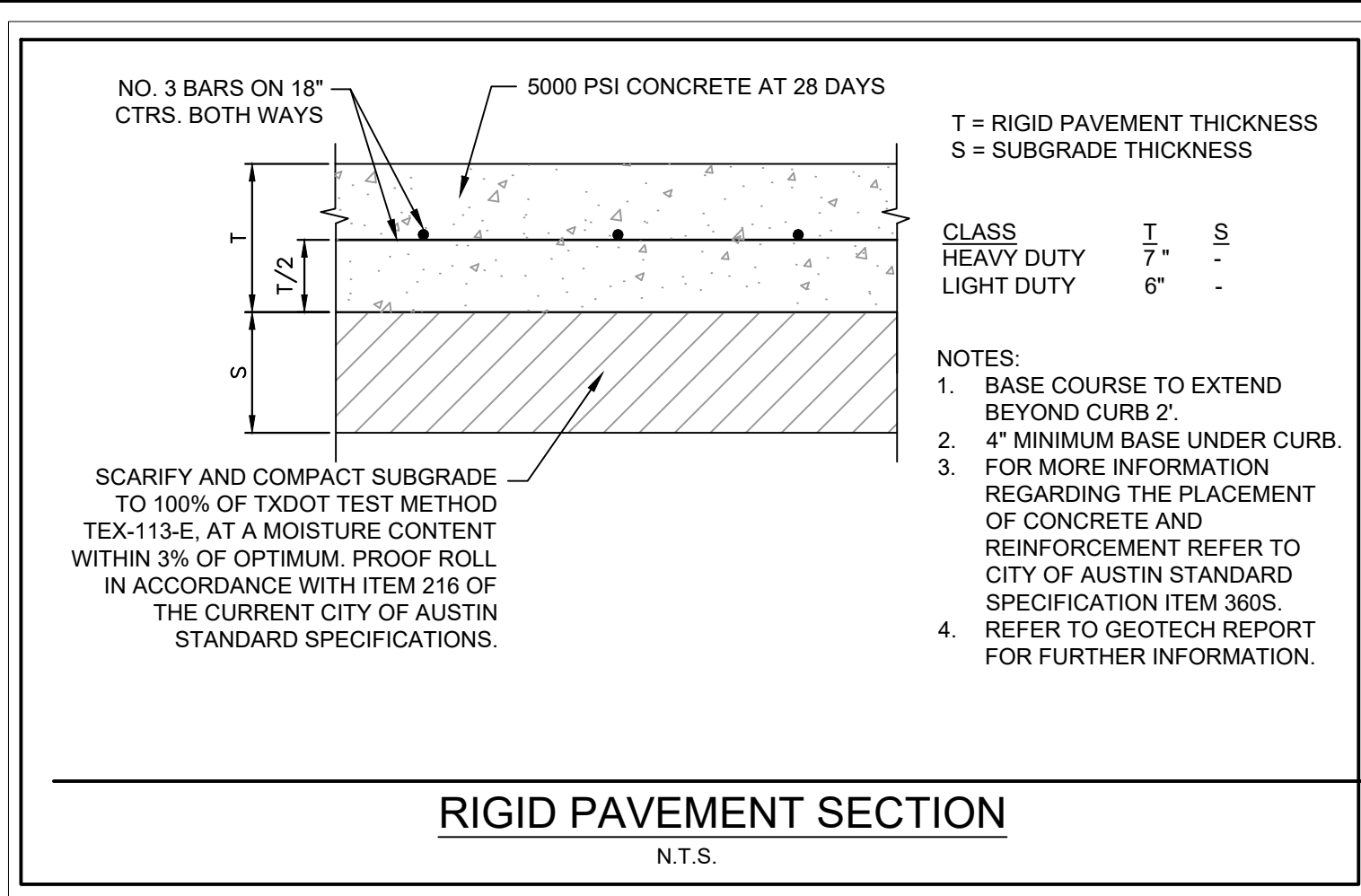
183A NORTHBOUND FRONTAGE ROAD RIGHT TURN LANE SECTION

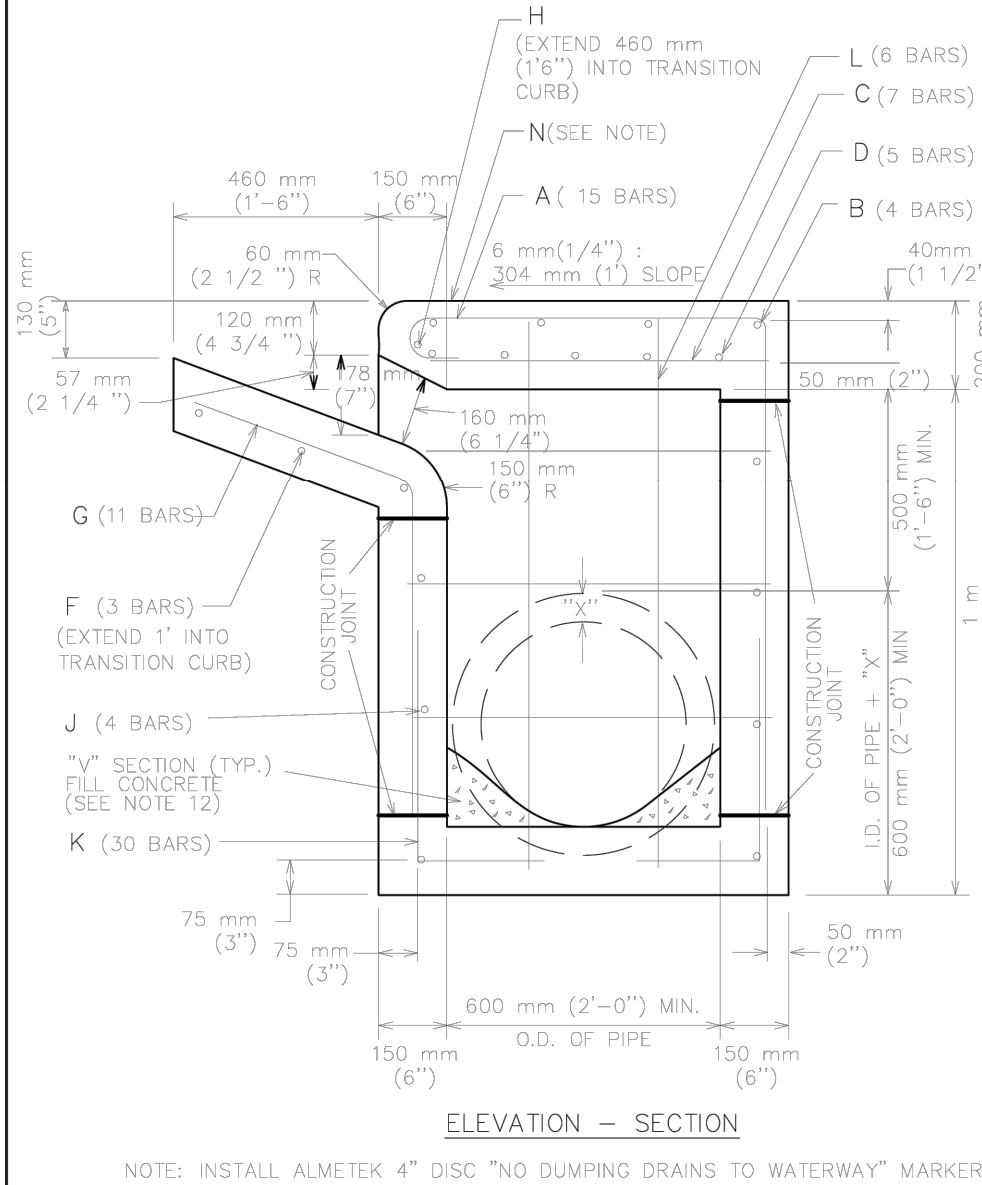
NOTES:

- HMA TY C SHALL COMPLY WITH TXDOT STANDARD SPECIFICATION 341 DENSE GRADED HMA
- HMA TY B SHALL COMPLY WITH TXDOT STANDARD SPECIFICATION 341 DENSE GRADED HMA
- FLEX BASE SHALL COMPLY WITH TXDOT STANDARD SPECIFICATION 247, INCLUDING 100% COMPACTION
- CONTRACTOR TO MATCH EXISTING PAVEMENT SECTION AND EXISTING CROSS SLOPE
- DISTURBED SOIL SHOULD BE REGRADED WITH 6\"/>

LEGEND

- PROPOSED 2\"/>
- PROPOSED PRIMECOAT ASPH MATL (AE-P)
- PROPOSED 5.5\"/>
- PROPOSED 8\"/>
- PROPOSED 6\"/>
- PROPOSED EMBANKMENT (TY C)
- PROPOSED TYPE II CURB & GUTTER



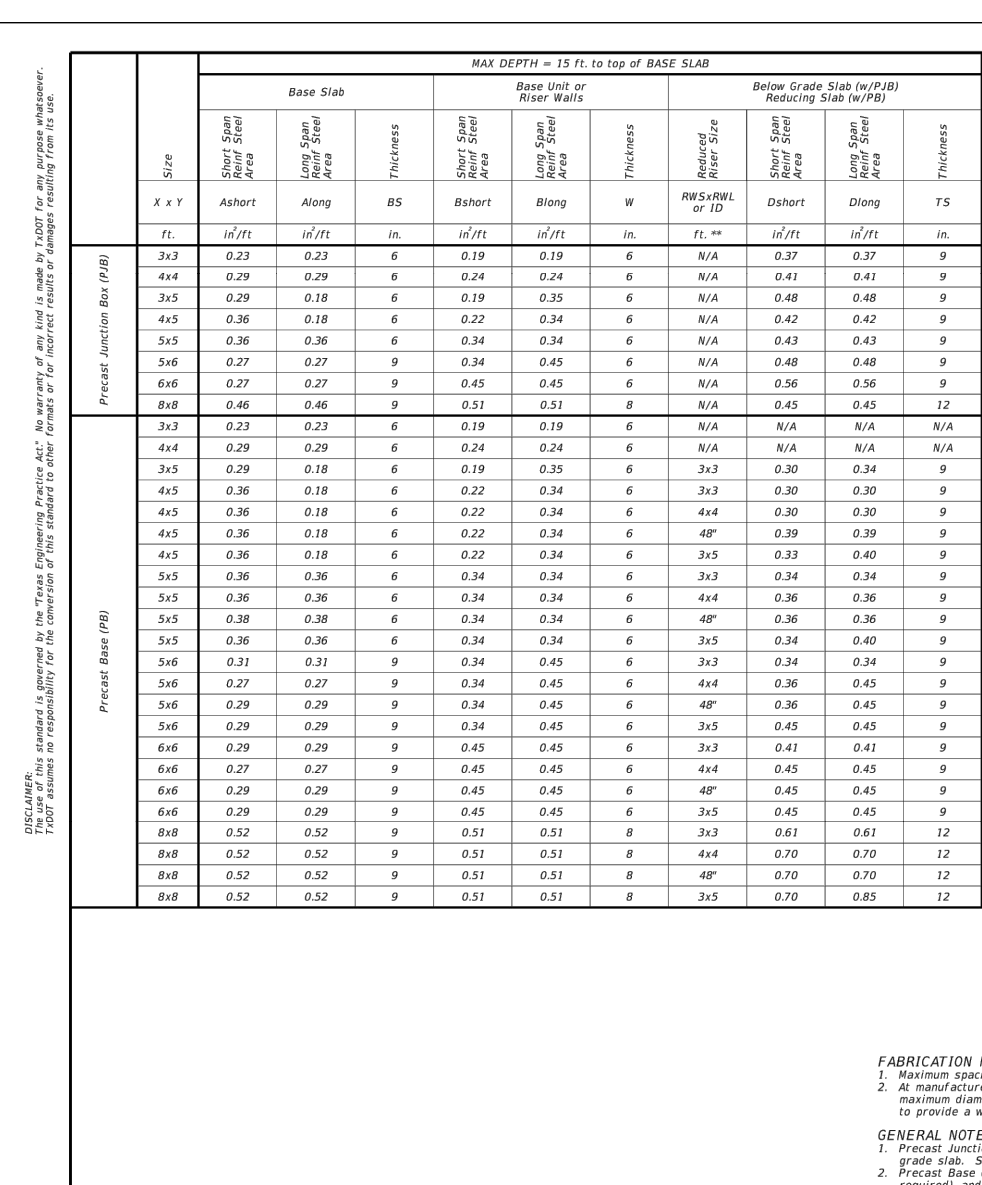
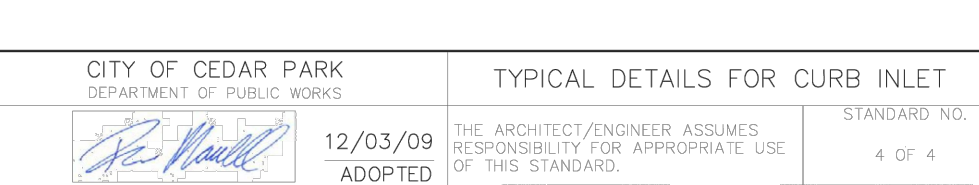
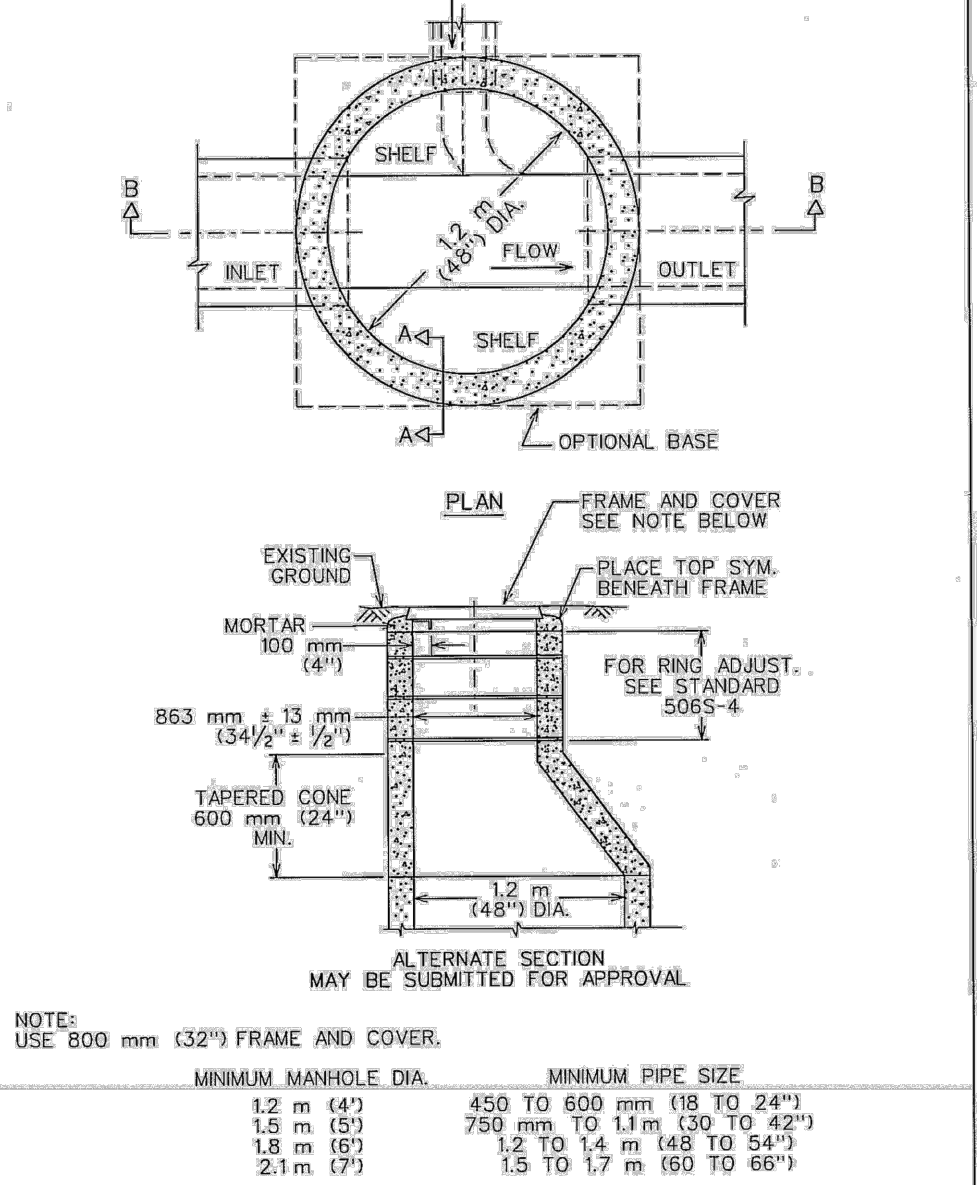


REFERENCES:

FOR EXPANSION JOINT DOWEL AND DOWEL LOCATION DETAILS
SEE STD. 430S-3, "CURB EXPANSION JOINT DOWEL DETAIL".

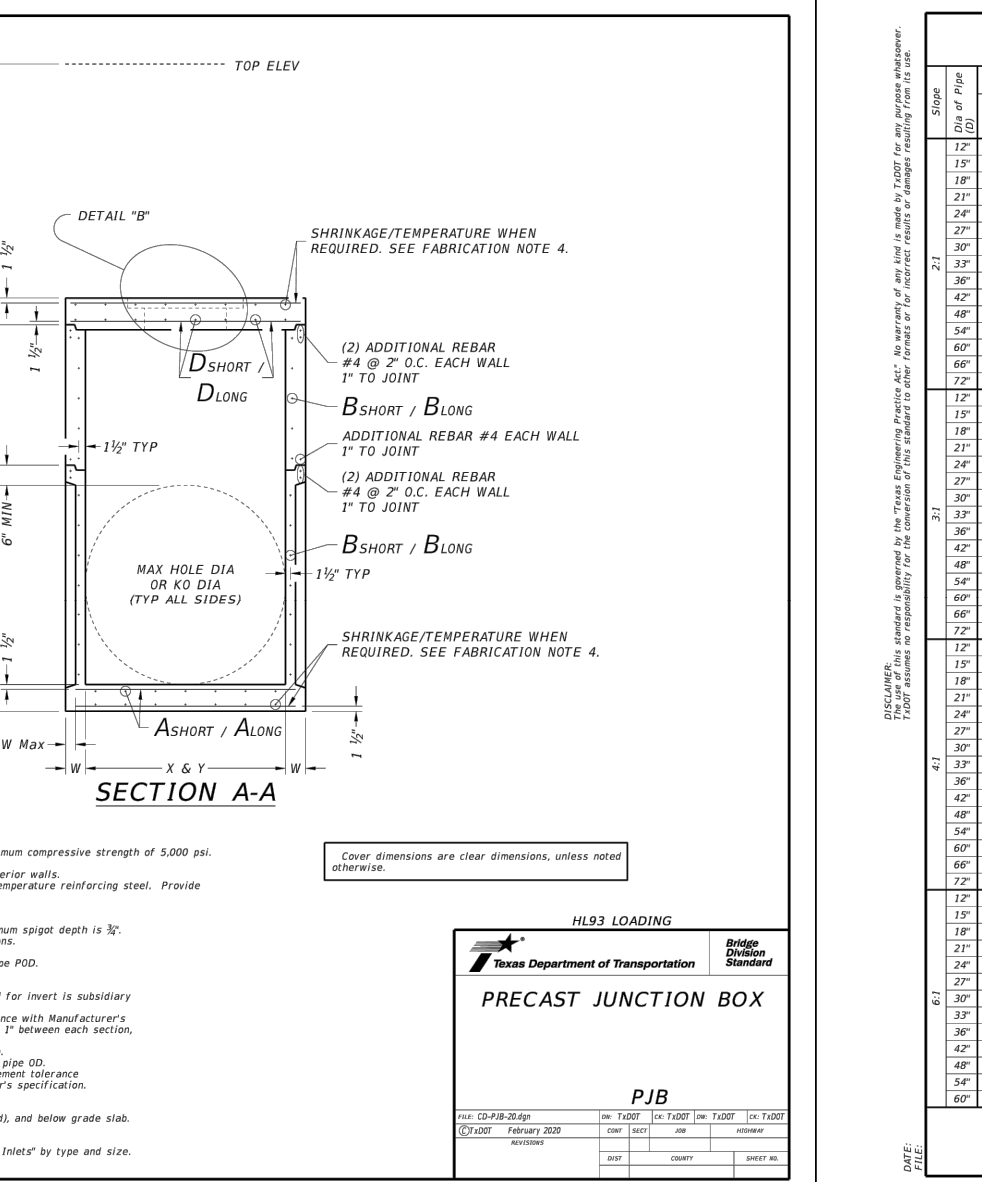
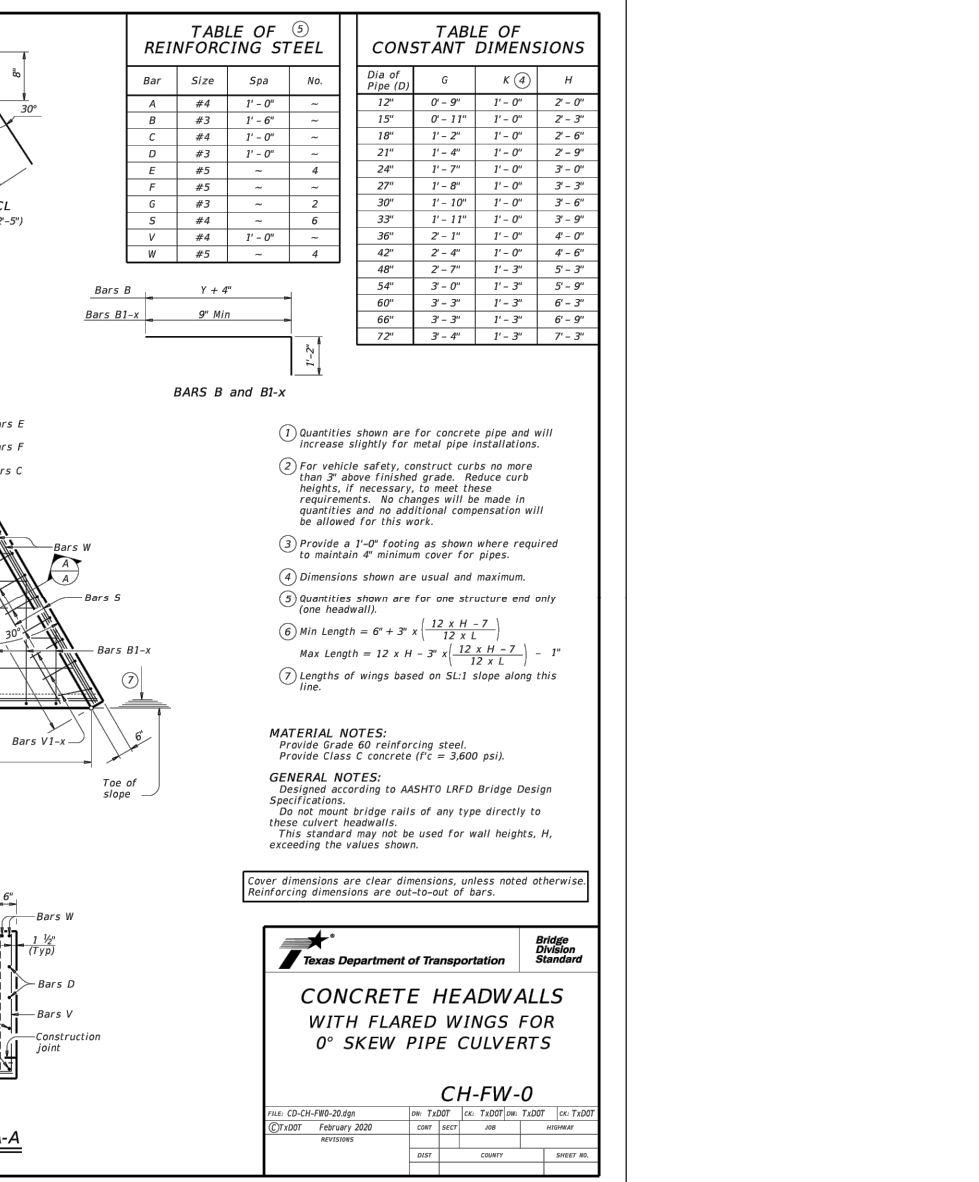
FOR 18" MANHOLE FRAME AND COVER DETAILS
SEE STD. 503S-1, "18" COVER AND FRAME".

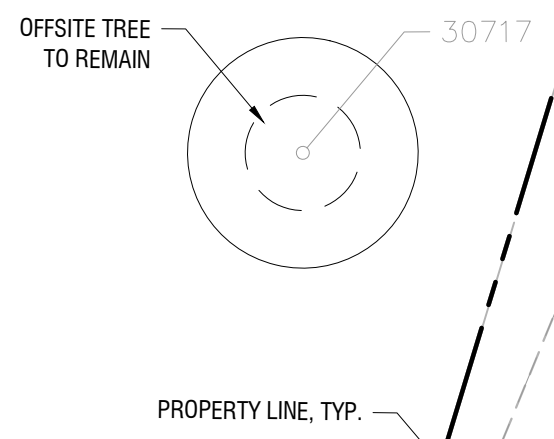
ALMTEK "NO DUMPING DRAINS TO WATERWAY" MARKERS
WWW.ALMTEK.COM

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DATE _____
PAGE _____

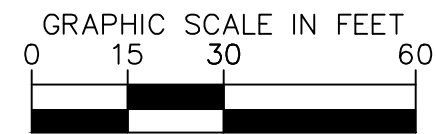
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PDD			
Proj. CD-PDD-28.8g	Inv. T/F	Inv. T/F	Inv. T/F
STATION	DATE	BY	CHK
REVISION			
DATE	DATE	COUNTY	

[illegible]



183A TOLL ROAD
(400 FOOT MINIMUM WIDTH)

MATCH LINE SHEET TP 1.01



LEGEND



TREE PROTECTION FENCING

BENCHMARKS

- BM #1021
• ELEV.=926.364
- BM #1052
• ELEV.=914.827
- BM #2082
• ELEV.=906.293
- BM #2080
• ELEV.=903.532
- BM #1023
• ELEV.=898.477
- BM #1022
• ELEV.=921.103



Know what's **below**.
Call before you dig.

[illegible]

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1251 SADLER DRIVE, BUILDING K, SUITE 3200, SAN MARCOS, TX 78666
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WWW.KIMLEY-HORN.COM

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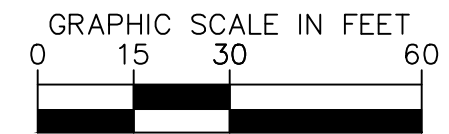
R.I.A. BLAINE D. MIKULIK
L.A. No. 3486 DATE 08/11/2022

KHA PROJECT 065008800
DATE 08/26/2025
SCALE: AS SHOWN
DESIGNED BY: LC
DRAWN BY: ALM
CHECKED BY: BDM

**TREE PRESERVATION
PLAN (1 OF 2)**

**CEDAR PARK
INDUSTRIAL**
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TX 78661

SHEET NUMBER
28 OF 38



LEGEND



TREE PROTECTION FENCING

BM #1021
• ELEV.=926.364

BM #1052
• ELEV.=914.827

BM #2082
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BM #2080
• ELEV.=903.532

BM #1023
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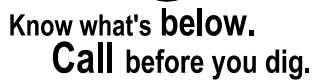
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• ELEV.=921.103



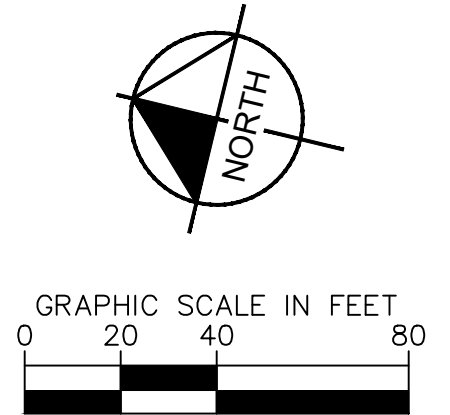
Know what's below.
Call before you dig.

SHEET NUMBER 29 OF 38	CEDAR PARK INDUSTRIAL CITY OF CEDAR PARK WILLIAMSON COUNTY, TX 78641	TREE PRESERVATION PLAN (2 OF 2)	KHA PROJECT 065098800	DATE 08/26/2025	SCALE: AS SHOWN	DESIGNED BY: LC	DRAWN BY: ALM	CHECKED BY: BDM	PREFLIMINARY FOR REVIEW ONLY Not for construction or permit purposes. Kimley»Horn BLAINE D. MIKULIK LA No. 3486 DATE 08/11/2025		Kimley»Horn © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 1251 SADLER DRIVE, BUILDING K, SUITE 3200, SAN MARCOS, TX 78666 PHONE: 512-566-4457 WWW.KIMLEY-HORN.COM TEXAS REGISTERED ENGINEERING FIRM F-928				
												NO.	REVISIONS	DATE	BY

Tree Inches Being Removed	Tree Inches	Mitigation Inches
Total tree inches being removed - PROTECTED - 1:1	194	194
Total tree inches being removed - PROTECTED - 2:1	102	204.0
Total tree inches being removed - HERITAGE - 3:1	59.5	178.5
Total Tree Inches Being Removed	355.5	576.5
Tree Inches Already Paid For Removal		373
Total Tree Inches To Be Paid Into Tree Mitigation Fund		203.5



SHEET NUMBER
30 OF 3





WARNING: CONTRACTOR IS TO
VERIFY PRESENCE AND EXACT
LOCATION OF ALL UTILITIES
PRIOR TO CONSTRUCTION.

811

Know what's below.
Call before you dig.

ALL PROPOSED LANDSCAPE IMPROVEMENTS SHALL BE PROVIDED A PERMANENT IRRIGATION SYSTEM PER CITY OF CEDAR PARK CODE OF ORDINANCES.

TURF/GRASSES						
	85,991 SF	CYNODON DACTYLON / BERMUDA GRASS	N/A	N/A	N/A	SOD TO HAVE TIGHT, SAND FILLED JOINTS AND BE FREE OF WEEDS.
	33,311 SF	CYNODON DACTYLON / CYNODON DACTYLON	N/A	N/A	N/A	HYDROSEED.

BM #1021
• ELEV.=926.364

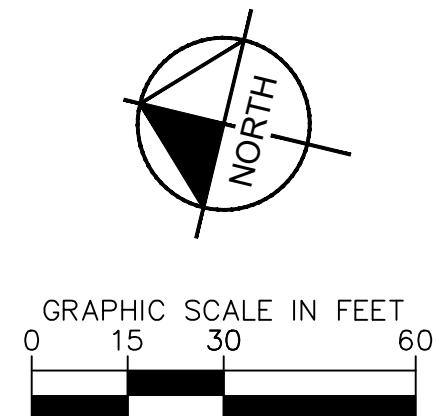
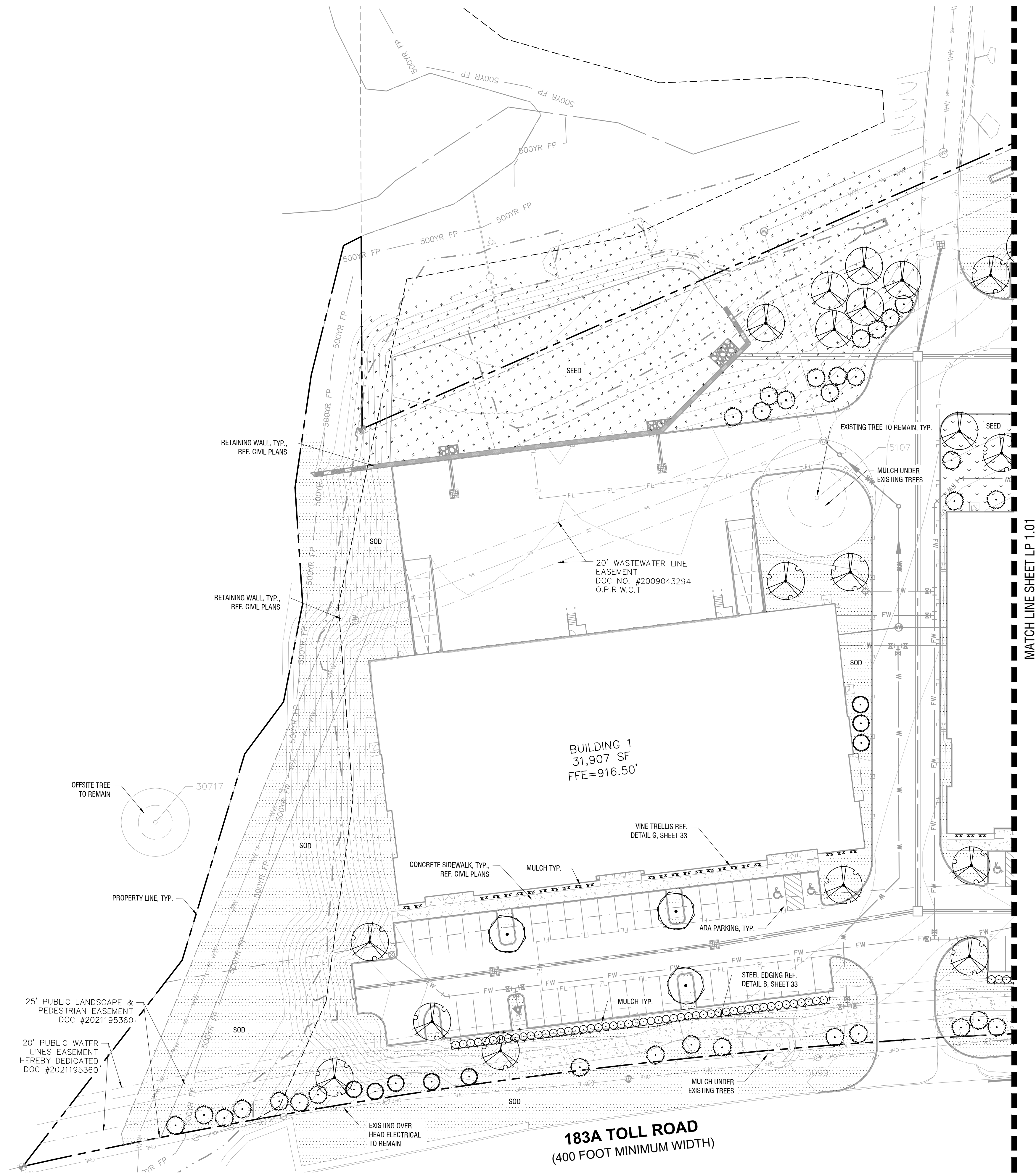
BM #1052
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BM #2082
• ELEV.=906.293

BM #2080
• ELEV.=903.532

BM #1023
• ELEV.=898.477

BM #1022
• ELEV.=921.103



REF. SHEET LP 2.00 FOR COMPLETE PLANT SCHEDULE.

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	
TREES			
	TD	TAXODIUM DISTICHUM / BALD CYPRESS	
	UC	ULMUS CRASSIFOLIA / CEDAR ELM	
	QV	QUERCUS VIRGINIANA / LIVE OAK	
	QS	QUERCUS SHUMARDII / SHUMARD RED OAK	
ORNAMENTAL TREES			
	LN	LAGERSTROEMIA X 'NATCHEZ' / NATCHEZ CRAPE MYRTLE	
	IV	ILEX VOMITORIA / YAUPOH HOLLY	
SHRUBS			
	GS	GELSEMIUM SEMPERVIRENS / CAROLINA JESSAMINE	
	IC	ILEX CORNUTA / DWARF BURFORD / DWARF BURFORD HOLLY	
TURF/GRASSES			
	SOD	CYNODON DACTYLON / BERMUDA GRASS	
	SEED	CYNODON DACTYLON / CYNODON DACTYLON	

BENCHMARKS

- BM #1021
• ELEV.=926.364
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WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM E-008

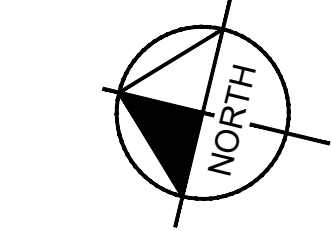
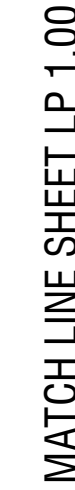
KHA PROJECT 065008800
DATE 08/26/2025
SCALE: AS SHOWN
DESIGNED BY: LC
DRAWN BY: ALM

LANDSCAPE PLAN (1 OF 2)

**CEDAR PARK
INDUSTRIAL**
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TX 78661









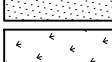

SHEET NUMBER

33 OF 38



REF. SHEET LP 2.00 FOR COMPLETE PLANT SCHEDULE.

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
<u>TREES</u>		
	TD	TAXODIUM DISTICHUM / BALD CYPRESS
	UC	ULMUS CRASSIFOLIA / CEDAR ELM
	QV	QUERCUS VIRGINIANA / LIVE OAK
	QS	QUERCUS SHUMARDII / SHUMARD RED OAK
<u>ORNAMENTAL TREES</u>		
	LN	LAGERSTROEMIA X 'NATCHEZ' / NATCHEZ CRAPE MYRTLE
	IV	ILEX VOMITORIA / YAUPOIN HOLLY
<u>SHRUBS</u>		
	GS	GELSEMIUM SEMPERVIRENS / CAROLINA JESSAMINE
	IC	ILEX CORNUTA / DWARF BURFORD / DWARF BURFORD HOLLY
<u>TURF/GRASSES</u>		
	SOD	CYNODON DACTYLON / BERMUDA GRASS
	SEED	CYNODON DACTYLON / CYNODON DACTYLON

BM #1021
• ELEV.=926.364

BM #1052
• ELEV.=914.827

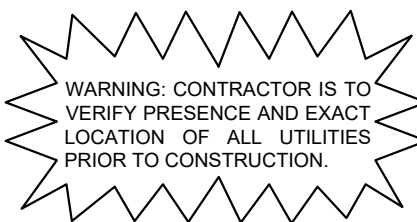
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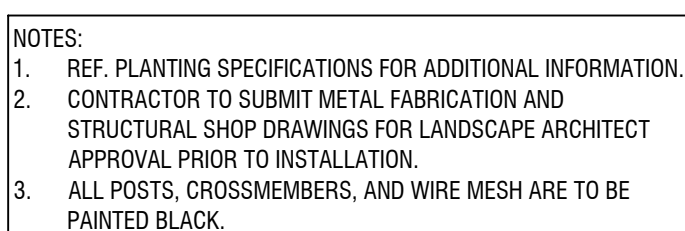
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• ELEV.=903.532

BM #1023
• ELEV.=898.477

BM #1022
• ELEV.=921.103

- BM #1021
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- BM #1052
• ELEV.=914.827
- BM #2082
• ELEV.=906.293
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• ELEV.=903.532
- BM #1023
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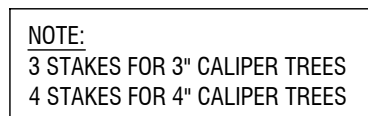




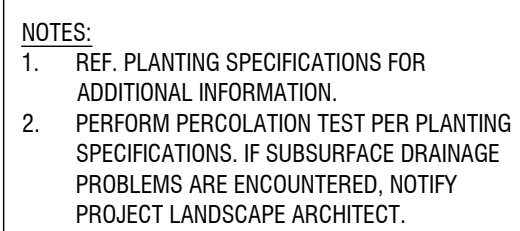
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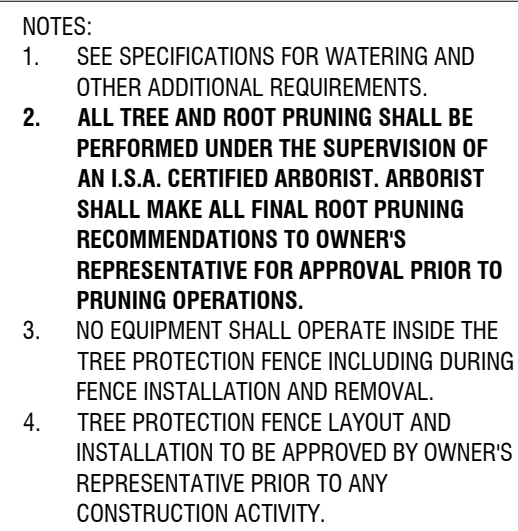
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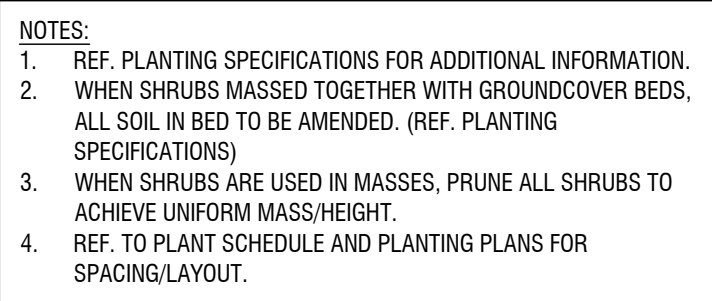
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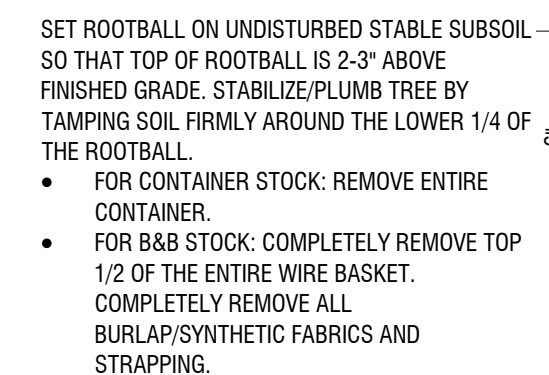
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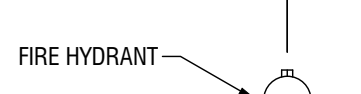
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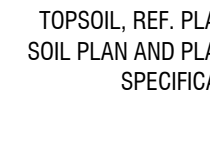
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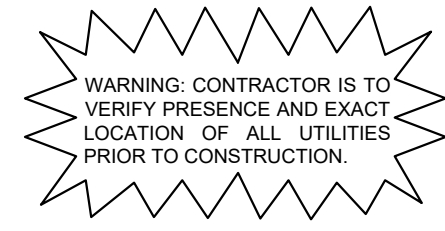
SECTION



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2.4 PLANTING SOIL

- A. PLANTING SOIL AS USED IN THIS SPECIFICATION MEANS THE SOIL AT THE PLANTING SITE, OR IMPORTED AS MODIFIED AND DEFINED IN SPECIFICATION SECTION PLANTING SOIL. IF THERE IS NO PLANTING SOIL SPECIFICATION, THE TERM PLANTING SOIL SHALL MEAN THE SOIL AT THE PLANTING SITE WITHIN THE PLANTING HOLE.
- B. PLANTING SOIL SHALL BE 2" LAYER OF IMPORTED MIXED SOIL WITH COMPOST FROM LIVING EARTH OR APPROVED EQUAL.
1. CONTACT: PAUL TOMASO, 214.533.6296

2.5 MULCH

- A. MULCH SHALL BE COARSE, GROUND, FROM HARDWOOD TREES AND WOODY BRUSH SOURCES. THE SIZE RANGE SHALL BE A MINIMUM (LESS THAN 25% OR LESS OF VOLUME) FINE PARTICLES 3/8 INCH OR LESS IN SIZE, AND A MAXIMUM SIZE OF INDIVIDUAL PIECES (LARGEST 20% OR LESS OF VOLUME) SHALL BE APPROXIMATELY 1 TO 1-1/2 INCH IN DIAMETER AND MAXIMUM LENGTH APPROXIMATELY 4 TO 8". PIECES LARGER THAN 8 INCH LONG THAT ARE VISIBLE ON THE SURFACE OF THE MULCH AFTER INSTALLATION SHALL BE REMOVED.
1. IT IS UNDERSTOOD THAT MULCH QUALITY WILL VARY SIGNIFICANTLY FROM SUPPLIER TO SUPPLIER AND REGION TO REGION. THE ABOVE REQUIREMENTS MAY BE MODIFIED TO CONFORM TO THE SOURCE MATERIAL FROM LOCALLY RELIABLE SUPPLIERS AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- B. SUBMIT SUPPLIER'S PRODUCT SPECIFICATION DATA SHEET AND A ONE GALLON SAMPLE FOR APPROVAL.

2.6 TREE STAKING AND GUYING MATERIAL

- A. TREE STAKING SHALL BE PER PLANTING DETAILS.
- B. ARBOR STAKE OR APPROVED EQUAL.
1. MANUFACTURER: WWW.ARBORSTAKES.COM
- C. SUBMIT MANUFACTURER'S PRODUCT DATA FOR APPROVAL.

2.7 CHEMICAL OR BIOLOGICAL ADDITIVES

- A. PER SOILS TEST RESULTS.

2.8 COMPOST

- A. LIVING EARTH COMPOST OR APPROVED EQUAL.
1. MANUFACTURER: LIVING EARTH: 972-869-4332

2.10 PLANTER POTTING SOIL

- A. LIVING EARTH CONTAINER POTTING SOIL OR APPROVED EQUAL.
1. MANUFACTURER: LIVING EARTH: 972-869-4332

PART 3 EXECUTION

3.1 SITE EXAMINATION

- A. EXAMINE THE SURFACE GRADES AND SOIL CONDITIONS TO CONFIRM THAT THE REQUIREMENTS OF THE SPECIFICATION SECTION - PLANTING SOIL - AND THE SOIL AND DRAINAGE MODIFICATIONS INDICATED ON THE PLANTING SOIL PLAN AND DETAILS (IF APPLICABLE) HAVE BEEN COMPLETED. NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF ANY UNSATISFACTORY CONDITIONS.

3.2 DELIVERY, STORAGE AND HANDLING

- A. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND STORAGE. ADEQUATELY PROTECT PLANTS FROM DRYING OUT, EXPOSURE OF ROOTS TO SUN, WIND OR EXTREMES OF HEAT AND COLD TEMPERATURES. IF PLANTING IS DELAYED MORE THAN 24 HOURS AFTER DELIVERY, SET PLANTS IN A LOCATION PROTECTED FROM SUN AND WIND. PROVIDE ADEQUATE WATER TO THE ROOT BALL PACKAGE DURING THE SHIPPING AND STORAGE PERIOD.
1. ALL PLANT MATERIALS MUST BE AVAILABLE FOR OBSERVATION PRIOR TO PLANTING.
2. USING A SOIL MOISTURE METER, PERIODICALLY CHECK THE SOIL MOISTURE IN THE ROOT BALLS OF ALL PLANTS TO ASSURE THAT THE PLANTS ARE BEING ADEQUATELY WATERED. VOLUMETRIC SOIL MOISTURE SHALL BE MAINTAINED ABOVE WILTING POINT AND BELOW FIELD CAPACITY FOR THE ROOT BALL SUBSTRATE OR SOIL.
- B. DO NOT DELIVER MORE PLANTS TO THE SITE THAN THERE IS SPACE WITH ADEQUATE STORAGE CONDITIONS. PROVIDE A SUITABLE REMOTE STAGING AREA FOR PLANTS AND OTHER SUPPLIES.
1. THE OWNER'S REPRESENTATIVE OR CONTRACTOR SHALL APPROVE THE DURATION, METHOD AND LOCATION OF STORAGE OF PLANTS.
- C. PROVIDE PROTECTIVE COVERING OVER ALL PLANTS DURING TRANSPORTING.

3.3 PLANTING SEASON

- A. PLANTING SHALL ONLY BE PERFORMED WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE FOR PLANTING THE MATERIALS SPECIFIED IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICE BELOW UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE. IN THE EVENT THAT THE CONTRACTOR REQUEST PLANTING OUTSIDE THE DATES OF THE PLANTING SEASON, APPROVAL OF THE REQUEST DOES NOT CHANGE THE REQUIREMENTS OF THE WARRANTY.

3.4 ADVERSE WEATHER CONDITIONS

- A. NO PLANTING SHALL TAKE PLACE DURING EXTREMELY HOT, DRY, WINDY OR FREEZING WEATHER.

3.5 COORDINATION WITH PROJECT WORK

- A. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER WORK THAT MAY IMPACT THE COMPLETION OF THE WORK.
- B. PRIOR TO THE START OF WORK, PREPARE A DETAILED SCHEDULE OF THE WORK FOR COORDINATION WITH OTHER TRADES.
- C. COORDINATE THE RELOCATION OF ANY IRRIGATION LINES, HEADS OR THE CONDUITS OF OTHER UTILITY LINES THAT ARE IN CONFLICT WITH TREE LOCATIONS. ROOT BALLS SHALL NOT BE ALTERED TO FIT AROUND LINES. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS ENCOUNTERED.

3.6 LAYOUT AND PLANTING SEQUENCE

- A. RELATIVE POSITIONS OF ALL PLANTS AND TREES ARE SUBJECT TO APPROVAL OF THE OWNER'S REPRESENTATIVE.
- B. NOTIFY THE OWNER'S REPRESENTATIVE, ONE (1) WEEK PRIOR TO LAYOUT. LAYOUT ALL INDIVIDUAL TREE AND SHRUB LOCATIONS. PLACE PLANTS ABOVE SURFACE AT PLANTING LOCATION OR PLACE A LABELED STAKE AT PLANTING LOCATION. LAYOUT BED LINES WITH PAINT FOR THE OWNER'S REPRESENTATIVE'S APPROVAL. SECURE THE OWNER'S REPRESENTATIVE'S ACCEPTANCE BEFORE DIGGING AND START OF PLANTING WORK.
- C. WHEN APPLICABLE, PLANT TREES BEFORE OTHER PLANTS ARE INSTALLED.
- D. IT IS UNDERSTOOD THAT PLANTS ARE NOT PRECISE OBJECTS AND THAT MINOR ADJUSTMENTS IN THE LAYOUT WILL BE REQUIRED AS THE PLANTING PLAN IS CONSTRUCTED. THESE ADJUSTMENTS MAY NOT BE APPARENT UNTIL SOME OR ALL OF THE PLANTS ARE INSTALLED. MAKE ADJUSTMENTS AS REQUIRED BY THE OWNER'S REPRESENTATIVE INCLUDING RELOCATING PREVIOUSLY INSTALLED PLANTS.

3.7 SOIL PROTECTION DURING PLANT DELIVERY AND INSTALLATION

- A. PROTECT SOIL FROM COMPACTION DURING THE DELIVERY OF PLANTS TO THE PLANTING LOCATIONS, DIGGING OF PLANTING HOLES AND INSTALLING PLANTS.
1. WHERE POSSIBLE DELIVER AND PLANT TREES THAT REQUIRE THE USE OF HEAVY MECHANIZED EQUIPMENT PRIOR TO FINAL SOIL PREPARATION AND TILLING. WHERE POSSIBLE, RESTRICT THE DRIVING LANES TO ONE AREA INSTEAD OF DRIVING OVER AND COMPACTING A LARGE AREA OF SOIL.
2. TILL TO A DEPTH OF 6 INCHES, ALL SOIL THAT HAS BEEN DRIVEN OVER DURING THE INSTALLATION OF PLANTS.

3.8 SOIL MOISTURE

- A. VOLUMETRIC SOIL MOISTURE LEVEL, IN BOTH THE PLANTING SOIL AND THE ROOT BALLS OF ALL PLANTS, PRIOR TO, DURING AND AFTER PLANTING SHALL BE ABOVE PERMANENT WILTING POINT AND BELOW FIELD CAPACITY FOR EACH TYPE OF SOIL TEXTURE WITHIN THE FOLLOWING RANGES.

SOIL TYPE	PERMANENT WILTING POINT	FIELD CAPACITY
SAND, LOAMY SAND, SANDY LOAM	5 - 8%	12 - 18%
LOAM, SANDY CLAY, SANDY CLAY LOAM	14 - 25%	27 - 36%
CLAY LOAM, SILT LOAM	11 - 22%	31 - 36%
SILTY CLAY, SILTY CLAY LOAM	22 - 27%	38 - 41%

1. VOLUMETRIC SOIL MOISTURE SHALL BE MEASURED WITH A DIGITAL MOISTURE METER. THE METER SHALL BE THE DIGITAL SOIL MOISTURE METER, DSM500 BY GENERAL SPECIALTY TOOLS AND INSTRUMENTS, OR APPROVED EQUIVALENT.
- B. THE CONTRACTOR SHALL CONFIRM THE SOIL MOISTURE LEVELS WITH A MOISTURE METER. IF THE MOISTURE IS TOO HIGH, SUSPEND PLANTING OPERATIONS UNTIL THE SOIL MOISTURE DRAINS TO BELOW FIELD CAPACITY.
- 3.9 INSTALLATION OF PLANTS: GENERAL
- A. OBSERVE EACH PLANT AFTER DELIVERY AND PRIOR TO INSTALLATION FOR DAMAGE OF OTHER CHARACTERISTICS THAT MAY CAUSE REJECTION OF THE PLANT. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONDITION OBSERVED.
- B. NO MORE PLANTS SHALL BE DISTRIBUTED ABOUT THE PLANTING BED AREA THAN CAN BE PLANTED AND WATERED ON THE SAME DAY.
- C. THE ROOT SYSTEM OF EACH PLANT, REGARDLESS OF ROOT BALL PACKAGE TYPE, SHALL BE OBSERVED BY THE CONTRACTOR, AT THE TIME OF PLANTING TO CONFIRM THAT THE ROOTS MEET THE REQUIREMENTS FOR PLANT ROOT QUALITY IN PART 2 PRODUCTS: PLANTS GENERAL: PLANT QUALITY. THE CONTRACTOR SHALL UNDERTAKE AT THE TIME OF PLANTING, ALL MODIFICATIONS TO THE ROOT SYSTEM REQUIRED BY THE OWNER'S REPRESENTATIVE TO MEET THESE QUALITY STANDARDS.

1. MODIFICATIONS, AT THE TIME OF PLANTING, TO MEET THE SPECIFICATIONS FOR THE DEPTH OF THE ROOT COLLAR AND REMOVAL OF STEM GIRDLING ROOTS AND CIRCLING ROOTS MAY MAKE THE PLANT UNSTABLE OR STRESS THE PLANT TO THE POINT THAT THE OWNER'S REPRESENTATIVE MAY CHOOSE TO REJECT THE PLANT RATHER THAN PERMITTING THE MODIFICATION.
2. ANY MODIFICATIONS REQUIRED BY THE OWNER'S REPRESENTATIVE TO MAKE THE ROOT SYSTEM CONFORM TO THE PLANT QUALITY STANDARDS OUTLINED IN PART 2 PRODUCTS: PLANTS GENERAL: QUALITY, OR OTHER REQUIREMENTS RELATED TO THE PERMITTED ROOT BALL PACKAGE, SHALL NOT BE CONSIDERED AS GROUNDS TO MODIFY OR VOID THE PLANT WARRANTY.
3. THE RESULTING ROOT BALL MAY NEED ADDITIONAL STAKING AND WATER AFTER PLANTING. THE OWNER'S REPRESENTATIVE MAY REJECT THE PLANT IF THE ROOT MODIFICATION PROCESS MAKES THE TREE UNSTABLE OR IF THE TREE IS NOT HEALTHY AT THE END OF THE WARRANTY PERIOD. SUCH PLANTS SHALL STILL BE COVERED UNDER THE WARRANTY.
4. THE CONTRACTOR REMAINS RESPONSIBLE TO CONFIRM THAT THE GROWER HAS MADE ALL REQUIRED ROOT MODIFICATIONS NOTED DURING ANY NURSERY OBSERVATIONS.
- D. CONTAINER AND BOXED ROOT BALL SHAVING (IF REQUIRED - SEE DRAWINGS FOR CONDITIONS): THE OUTER SURFACES OF ALL PLANTS IN CONTAINERS AND BOXES, INCLUDING THE TOP, SIDES AND BOTTOM OF THE ROOT BALL SHALL BE SHAVED TO REMOVE ALL CIRCLING, DESCENDING, AND MATTED ROOTS. SHAVING SHALL BE PERFORMED USING SAWS, KNIVES, SHARP SHOVELS OR OTHER SUITABLE EQUIPMENT THAT IS CAPABLE OF MAKING CLEAN CUTS ON THE ROOTS. SHAVING SHALL REMOVE A MINIMUM OF ONE INCH OF ROOT MAT OR UP TO 2 INCHES AS REQUIRED TO REMOVE ALL ROOT SEGMENTS THAT ARE NOT GROWING REASONABLY RADIAL TO THE TRUNK.
- E. EXPOSED STEM TISSUE AFTER MODIFICATION: THE REQUIRED ROOT BALL MODIFICATIONS MAY RESULT IN STEM TISSUE THAT HAS NOT FORMED TRUNK BARK BEING EXPOSED ABOVE THE SOIL LINE. IF SUCH CONDITION OCCURS, WRAP THE EXPOSED PORTION OF THE STEM IN A PROTECTIVE WRAPPING WITH A WHITE FILTER FABRIC. SECURE THE FABRIC WITH BIODEGRADABLE MASKING TAPE. DO NOT USE STRING, TWINE, GREEN NURSERY TIES OR ANY OTHER MATERIAL THAT MAY GIRDLE THE TRUNK IF NOT REMOVED.
- F. EXCAVATION OF THE PLANTING SPACE: USING HAND TOOLS OR TRACKED MINI-EXCAVATOR, EXCAVATE THE PLANTING HOLE INTO THE PLANTING SOIL TO THE DEPTH OF THE ROOT BALL MEASURED AFTER ANY ROOT BALL MODIFICATION TO CORRECT ROOT PROBLEMS, AND WIDE ENOUGH FOR WORKING ROOM AROUND THE ROOT BALL OR TO THE SIZE INDICATED ON THE DRAWING OR AS NOTED BELOW.

1. FOR TREES AND SHRUBS PLANTED IN SOIL AREAS THAT ARE NOT TILLED OR OTHERWISE MODIFIED TO A DEPTH OF AT LEAST 12 INCHES OVER A DISTANCE OF MORE THAN 10 FEET RADIUS FROM EACH TREE, OR 5 FEET RADIUS FROM EACH SHRUB, THE SOIL AROUND THE ROOT BALL SHALL BE LOOSENE AS DEFINED BELOW OR AS INDICATED ON THE DRAWINGS.
- a. THE AREA OF LOOSENING SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF THE ROOT BALL AT THE SURFACE SLOPING TO 2 TIMES THE DIAMETER OF THE ROOT BALL AT THE DEPTH OF THE ROOT BALL.
- b. LOOSENING IS DEFINED AS DIGGING INTO THE SOIL AND TURNING THE SOIL TO REDUCE THE COMPACTION. THE SOIL DOES NOT HAVE TO BE REMOVED FROM THE HOLE, JUST DUG, LIFTED AND TURNED. LIFTING AND TURNING MAY BE ACCOMPLISHED WITH A TRACKED MINI EXCAVATOR, OR HAND SHOVELS.
2. IF AN AUGER IS USED TO DIG THE INITIAL PLANTING HOLE, THE SOIL AROUND THE AUGER HOLE SHALL BE LOOSENE AS DEFINED ABOVE FOR TREES AND SHRUBS PLANTED IN SOIL AREAS THAT ARE NOT TILLED OR OTHERWISE MODIFIED.
3. THE MEASURING POINT FOR ROOT BALL DEPTH SHALL BE THE AVERAGE HEIGHT OF THE OUTER EDGE OF THE ROOT BALL AFTER ANY REQUIRED ROOT BALL MODIFICATION.
4. IF MOTORIZED EQUIPMENT IS USED TO DELIVER PLANTS TO THE PLANTING AREA OVER EXPOSED PLANTING BEDS, OR USED TO LOOSEN THE SOIL OR DIG THE PLANTING HOLES, ALL SOIL THAT HAS BEEN DRIVEN OVER SHALL BE TILLED TO A DEPTH OF 6 INCHES.
- G. FOR TREES TO BE PLANTED IN PREPARED PLANTING SOIL THAT IS DEEPER THAN THE ROOT BALL DEPTH, COMPACT THE SOIL UNDER THE ROOT BALL USING A MECHANICAL TAMPER TO ASSURE A FIRM BEDDING FOR THE ROOT BALL. IF THERE IS MORE THAN 12 INCHES OF PLANTING SOIL UNDER THE ROOT BALL EXCAVATE AND TAMP THE PLANTING SOIL IN LIFTS NOT TO EXCEED 12 INCHES.
- H. SET TOP OUTER EDGE OF THE ROOT BALL AT THE AVERAGE ELEVATION OF THE PROPOSED FINISH. SET THE PLANT PLUMB AND UPRIGHT IN THE CENTER OF THE PLANTING HOLE. THE TREE GAFF, IF APPLICABLE, SHALL BE VISIBLE ABOVE THE GRADE, DO NOT PLACE SOIL ON TOP OF THE ROOT BALL.
- I. THE OWNER'S REPRESENTATIVE MAY REQUEST THAT PLANTS ORIENTATION BE ROTATED WHEN PLANTED BASED ON THE FORM OF THE PLANT.
- J. BACKFILL THE SPACE AROUND THE ROOT BALL WITH THE SAME PLANTING SOIL OR EXISTING SOIL THAT WAS EXCAVATED FOR THE PLANTING SPACE. SEE SPECIFICATION SECTION PLANTING SOIL, FOR REQUIREMENTS TO MODIFY THE SOIL WITHIN THE PLANTING BED.
- K. BRACE ROOT BALL BY TAMPING PLANTING SOIL AROUND THE LOWER PORTION OF THE ROOT BALL. PLACE ADDITIONAL PLANTING SOIL AROUND BASE AND SIDES OF BALL IN SIX-INCH (6") LIFTS. LIGHTLY TAMP EACH LIFT USING FOOT PRESSURE OR HAND TOOLS TO SETTLE BACKFILL, SUPPORT THE TREE AND ELIMINATE VOIDS. DO NOT OVER COMPACT THE BACKFILL OR USE MECHANICAL OR PNEUMATIC TAMPING EQUIPMENT. OVER COMPACTION SHALL BE DEFINED AS GREATER THAN 85% OF MAXIMUM DRY DENSITY. STANDARD PROCTOR OR GREATER THAN 250 PSIs MEASURED BY A CONE PENETROMETER WHEN THE VOLUMETRIC SOIL MOISTURE IS LOWER THAN FIELD CAPACITY.

- L. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED TO THREE QUARTERS OF ITS DEPTH, WATER SHALL BE POURED AROUND THE ROOT BALL AND ALLOWED TO SOAK INTO THE SOIL TO SETTLE THE SOIL. DO NOT FLOOD THE PLANTING SPACE. IF THE SOIL IS ABOVE FIELD CAPACITY, ALLOW THE SOIL TO DRAIN TO BELOW FIELD CAPACITY BEFORE FINISHING THE PLANTING. AIR POCKETS SHALL BE ELIMINATED AND BACKFILL CONTINUED UNTIL THE PLANTING SOIL IS BROUGHT TO GRADE LEVEL.
- M. WHERE INDICATED ON THE DRAWINGS, BUILD A 4 INCH HIGH, LEVEL BERM OF PLANTING SOIL AROUND THE OUTSIDE OF THE ROOT BALL TO RETAIN WATER. TAMP THE BERM TO REDUCE LEAKING AND EROSION OF THE SAUCER.
- N. THOROUGHLY WATER THE PLANTING SOIL AND ROOT BALL IMMEDIATELY AFTER PLANTING.
- O. REMOVE ALL NURSERY PLANT IDENTIFICATION TAGS AND RIBBONS AS PER OWNER'S REPRESENTATIVE INSTRUCTIONS. THE OWNER'S REPRESENTATIVE'S SEALS ARE TO REMAIN ON PLANTS UNTIL THE END OF THE WARRANTY PERIOD.
- P. REMOVE ANY CORRUGATED CARDBOARD TRUNK PROTECTION AFTER PLANTING.
- 3.10 PERMITTED ROOT BALL PACKAGES AND SPECIAL PLANTING REQUIREMENTS
- A. THE FOLLOWING ARE PERMITTED ROOT BALL PACKAGES AND SPECIAL PLANTING REQUIREMENTS THAT SHALL BE FOLLOWED DURING THE PLANTING PROCESS IN ADDITION TO THE ABOVE GENERAL PLANTING REQUIREMENTS.
- B. BALLED AND BURLAPPED PLANTS
1. AFTER THE ROOT BALL HAS BEEN BACKFILLED, REMOVE ALL TWINE AND BURLAP FROM THE TOP OF THE ROOT BALL. CUT THE BURLAP AWAY AS INDICATED ON DRAWINGS; DO NOT FOLD DOWN ONTO THE PLANTING SOIL.
2. IF THE PLANT IS SHIPPED WITH A WIRE BASKET REMOVE THE BASKET WIRES JUST BEFORE THE FINAL BACKFILLING OF THE TREE AS INDICATED ON THE DRAWINGS.
3. EARTH ROOT BALLS SHALL BE KEPT INTACT EXCEPT FOR ANY MODIFICATIONS REQUIRED BY THE OWNER'S REPRESENTATIVE TO MAKE ROOT PACKAGE COMPLY WITH THE REQUIREMENT IN PART 2 PRODUCTS.
- C. CONTAINER PLANTS
1. THIS SPECIFICATION ASSUMES THAT MOST CONTAINER PLANTS HAVE SIGNIFICANT STEM GIRDLING AND CIRCLING ROOTS, AND THAT THE ROOT COLLAR IS TOO LOW IN THE ROOT BALL.
2. REMOVE THE CONTAINER.
3. PERFORM ROOT BALL SHAVING AS DEFINED IN INSTALLATION OF PLANTS: GENERAL ABOVE.
4. REMOVE ALL ROOTS AND SUBSTRATE ABOVE THE ROOT COLLAR AND THE MAIN STRUCTURAL ROOTS ACCORDING TO ROOT CORRECTION DETAILS SO ROOT SYSTEM CONFORMS TO ROOT OBSERVATIONS DETAIL.
5. REMOVE ALL SUBSTRATE AT THE BOTTOM OF THE ROOT BALL THAT DOES NOT CONTAIN ROOTS.
6. USING A HOSE, POWER WASHER OR AIR EXCAVATION DEVICE, WASH OUT THE SUBSTRATE FROM AROUND THE TRUNK AND TOP OF THE REMAINING ROOT BALL AND FIND AND REMOVE ALL STEM GIRDLING ROOTS WITHIN THE ROOT BALL ABOVE THE TOP OF THE STRUCTURAL ROOTS.

3.11 GROUND COVER, PERENNIAL AND ANNUAL PLANTS

- A. ASSURE THAT SOIL MOISTURE IS WITHIN THE REQUIRED LEVELS PRIOR TO PLANTING. IRRIGATION, IF REQUIRED, SHALL BE APPLIED AT LEAST 12 HOURS PRIOR TO PLANTING TO AVOID PLANTING IN MUDDY SOILS.
- B. ASSURE THAT SOIL GRADES IN THE BEDS ARE SMOOTH AND AS SHOWN ON THE PLANS.
- C. PLANTS SHALL BE PLANTED IN EVEN, TRIANGULARLY SPACED ROWS, AT THE INTERVALS CALLED OUT FOR ON THE DRAWINGS, UNLESS OTHERWISE NOTED. THE FIRST ROW OF ANNUAL FLOWER PLANTS SHALL BE 6 INCHES FROM THE BED EDGE UNLESS OTHERWISE DIRECTED.
- D. DIG PLANTING HOLES SUFFICIENTLY LARGE ENOUGH TO INSERT THE ROOT SYSTEM WITHOUT DEFORMING THE ROOTS. SET THE TOP OF THE ROOT SYSTEM AT THE GRADE OF THE SOIL.
- E. SCHEDULE THE PLANTING TO OCCUR PRIOR TO APPLICATION OF THE MULCH. IF THE BED IS ALREADY MULCHED, PULL THE MULCH FROM AROUND THE HOLE AND PLANT INTO THE SOIL. DO NOT PLANT THE ROOT SYSTEM IN THE MULCH. PULL MULCH BACK SO IT IS NOT ON THE ROOT BALL SURFACE.
- F. PRESS SOIL TO BRING THE ROOT SYSTEM IN CONTACT WITH THE SOIL.
- G. SPREAD ANY EXCESS SOIL AROUND IN THE SPACES BETWEEN PLANTS.

- H. APPLY MULCH TO THE BED BEING SURE NOT TO COVER THE TOPS OF THE PLANTS WITH OR THE TOPS OF THE ROOT BALL WITH MULCH.
- I. WATER EACH PLANTING AREA AS SOON AS THE PLANTING IS COMPLETED. APPLY ADDITIONAL WATER TO KEEP THE SOIL MOISTURE AT THE REQUIRED LEVELS. DO NOT OVER WATER.

3.12 STAKING AND GUYING

- A. DO NOT STAKE TREES UNLESS SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS, OR IN THE EVENT THAT THE CONTRACTOR FEELS THAT STAKING IS THE ONLY ALTERNATIVE WAY TO KEEP PARTICULAR TREES PLUMB.
1. THE OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO REQUIRE THAT TREES ARE STAKED OR TO REJECT STAKING AS AN ALTERNATIVE WAY TO STABILIZE THE TREE.
2. TREES THAT REQUIRED HEAVILY MODIFIED ROOT BALLS TO MEET THE ROOT QUALITY STANDARDS MAY BECOME UNSTABLE. THE OWNER'S REPRESENTATIVE MAY CHOOSE TO REJECT THESE TREES RATHER THAN UTILIZE STAKING TO TEMPORARILY SUPPORT THE TREE.
3. PLANTS SHALL STAND PLUMB AFTER STAKING.
4. STAKES SHALL BE DRIVEN TO SUFFICIENT DEPTH TO HOLD THE TREE RIGID.

3.13 STRAIGHTENING PLANTS

- B. MAINTAIN ALL PLANTS IN A PLUMB POSITION THROUGHOUT THE WARRANTY PERIOD. STRAIGHTEN ALL TREES THAT MOVE OUT OF PLUMB INCLUDING THOSE NOT STAKED. PLANTS TO BE STRAIGHTENED SHALL BE EXCAVATED AND THE ROOT BALL MOVED TO A PLUMB POSITION, AND THEN RE-BACKFILLED.
- C. DO NOT STRAIGHTEN PLANTS BY PULLING THE TRUNK WITH GUYS.

3.14 INSTALLATION OF FERTILIZER AND OTHER CHEMICAL ADDITIVES

- A. DO NOT APPLY ANY SOLUBLE FERTILIZER TO PLANTINGS DURING THE FIRST YEAR AFTER TRANSPLANTING UNLESS SOIL TEST DETERMINES THAT FERTILIZER OR OTHER CHEMICAL ADDITIVES IS REQUIRED. APPLY CHEMICAL ADDITIVES ONLY UPON THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- B. CONTROLLED RELEASE FERTILIZERS SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS, STANDARD HORTICULTURAL PRACTICES, AND PER THE SOIL TEST RECOMMENDATIONS.

3.15 PRUNING OF TREES AND SHRUBS

- A. PRUNE PLANTS AS DIRECTED BY THE OWNER'S REPRESENTATIVE. PRUNING TREES SHALL BE LIMITED TO ADDRESSING STRUCTURAL DEFECTS AS SHOWN IN DETAILS. FOLLOW RECOMMENDATIONS IN "STRUCTURAL PRUNING: A GUIDE FOR THE GREEN INDUSTRY" PUBLISHED BY URBAN TREE FOUNDATION, VISALIA CA.
- B. ALL PRUNING SHALL BE PERFORMED BY A PERSON EXPERIENCED IN STRUCTURAL TREE PRUNING.
- C. EXCEPT FOR PLANTS SPECIFIED AS MULTI-STEMMED OR AS OTHERWISE INSTRUCTED BY THE OWNER'S REPRESENTATIVE, PRESERVE OR CREATE A CENTRAL LEADER.
- D. PRUNING OF LARGE TREES SHALL BE DONE USING POLE PRUNERS OR IF NEEDED, FROM A LADDER OR HYDRAULIC LIFT TO GAIN ACCESS TO THE TOP OF THE TREE. DO NOT CLIMB IN NEWLY PLANTED TREES. SMALL TREES CAN BE STRUCTURALLY PRUNED BY LAYING THEM OVER BEFORE PLANTING. PRUNING MAY ALSO BE PERFORMED AT THE NURSERY PRIOR TO SHIPPING.
- E. REMOVE AND REPLACE EXCESSIVELY PRUNED OR MALFORMED STOCK RESULTING FROM IMPROPER PRUNING THAT OCCURRED IN THE NURSERY OR AFTER.
- F. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
- G. NO TREE PAINT OR SEALANTS SHALL BE USED.

3.16 MULCHING OF PLANTS

- A. APPLY MULCH BEFORE SETTLEMENT TO DEPTH SHOWN ON PLANS, COVERING THE ENTIRE PLANTING BED AREA. INSTALL NO MORE THAN 1 INCH OF MULCH OVER THE TOP OF THE ROOT BALLS OF ALL PLANTS. TAPER TO 2 INCHES WHEN ABUTTING PAVEMENT.
- B. FOR TREES PLANTED IN LAWN AREAS THE MULCH SHALL EXTEND TO A 4 FOOT RADIUS AROUND THE TREE OR TO THE EXTENT INDICATED ON THE PLANS.
- C. LIFT ALL LEAVES, LOW HANGING STEMS AND OTHER GREEN PORTIONS OF SMALL PLANTS OUT OF THE MULCH IF COVERED.

3.17 PLANTING BED FINISHING

- A. AFTER PLANTING, SMOOTH OUT ALL GRADES BETWEEN PLANTS BEFORE MULCHING.
- B. SEPARATE THE EDGES OF PLANTING BEDS AND LAWN AREAS WITH A SMOOTH, FORMED EDGE CUT INTO THE TURF WITH THE BED MULCH LEVEL SLIGHTLY LOWER, 1 AND 2 INCHES, THAN THE ADJACENT TURF SOD OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. BED EDGE LINES SHALL BE A DEPICTED ON THE DRAWINGS.

3.18 WATERING

- A. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO ENSURE THAT ADEQUATE WATER IS PROVIDED TO ALL PLANTS FROM THE POINT OF INSTALLATION UNTIL THE DATE OF SUBSTANTIAL COMPLETION ACCEPTANCE. THE CONTRACTOR SHALL ADJUST THE AUTOMATIC IRRIGATION SYSTEM, IF AVAILABLE, AND APPLY ADDITIONAL OR ADJUST FOR LESS WATER USING HOSES AS REQUIRED.
- B. HAND WATER ROOT BALLS OF ALL PLANTS TO ASSURE THAT THE ROOT BALLS HAVE MOISTURE ABOVE WILT POINT AND BELOW FIELD CAPACITY. TEST THE MOISTURE CONTENT IN EACH ROOT BALL AND THE SOIL OUTSIDE THE ROOT BALL TO DETERMINE THE WATER CONTENT.

3.19 CLEAN-UP

- A. DURING INSTALLATION, KEEP THE SITE FREE OF TRASH, PAVEMENTS REASONABLY CLEAN AND WORK AREA IN AN ORDERLY CONDITION AT THE END OF EACH DAY. REMOVE TRASH AND DEBRIS IN CONTAINERS FROM THE SITE NO LESS THAN ONCE A WEEK.
1. IMMEDIATELY CLEAN UP ANY SPILLED OR TRACKED SOIL, FUEL, OIL, TRASH OR DEBRIS DEPOSITED BY THE CONTRACTOR FROM ALL SURFACES WITHIN THE PROJECT OR ON PUBLIC RIGHT OF WAYS AND NEIGHBORING PROPERTY.
- B. ONCE INSTALLATION IS COMPLETE, WASH ALL SOIL FROM PAVEMENTS AND OTHER STRUCTURES. ENSURE THAT MULCH IS CONFINED TO PLANTING BEDS AND THAT ALL TAGS AND FLAGGING TAPE ARE REMOVED FROM THE SITE. THE OWNER'S REPRESENTATIVE'S SEALS ARE TO REMAIN ON THE TREES AND REMOVED AT THE END OF THE WARRANTY PERIOD.
- C. MAKE ALL REPAIRS TO GRADES, RUTS, AND DAMAGE BY THE PLANT INSTALLER TO THE WORK OR OTHER WORK AT THE SITE.
- D. REMOVE AND DISPOSE OF ALL EXCESS PLANTING SOIL, SUBSOIL, MULCH, PLANTS, PACKAGING, AND OTHER MATERIAL BROUGHT TO THE SITE BY THE CONTRACTOR.

3.20 PROTECTION DURING CONSTRUCTION

- A. THE CONTRACTOR SHALL PROTECT PLANTING AND RELATED WORK AND OTHER SITE WORK FROM DAMAGE DUE TO PLANTING OPERATIONS, OPERATIONS BY OTHER CONTRACTORS OR TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION UNTIL SUBSTANTIAL COMPLETION ACCEPTANCE. TREAT, REPAIR OR REPLACE DAMAGED WORK IMMEDIATELY.
- B. DAMAGE DONE BY THE CONTRACTOR, OR ANY OF THEIR SUB-CONTRACTORS TO EXISTING OR INSTALLED PLANTS, OR ANY OTHER PARTS OF THE WORK OR EXISTING FEATURES TO REMAIN, INCLUDING ROOTS, TRUNK OR BRANCHES OF LARGE EXISTING TREES, SOIL, PAVING, UTILITIES, LIGHTING, IRRIGATION, OTHER FINISHED WORK AND SURFACES INCLUDING THOSE ON ADJACENT PROPERTY, SHALL BE CLEANED, REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. THE OWNER'S REPRESENTATIVE SHALL DETERMINE WHEN SUCH CLEANING, REPLACEMENT OR REPAIR IS SATISFACTORY.

3.21 PLANT MAINTENANCE PRIOR TO SUBSTANTIAL COMPLETION ACCEPTANCE

- A. DURING THE PROJECT WORK PERIOD AND PRIOR TO SUBSTANTIAL COMPLETION ACCEPTANCE, THE CONTRACTOR SHALL MAINTAIN ALL PLANTS.
- B. MAINTENANCE DURING THE PERIOD PRIOR TO SUBSTANTIAL COMPLETION ACCEPTANCE SHALL CONSIST OF PRUNING, WATERING, CULTIVATING, WEEDING, MULCHING, REMOVAL OF DEAD MATERIAL, REPAIRING AND REPLACING OF TREE STAKES, TIGHTENING AND REPAIRING OF GUYS, REPAIRING AND REPLACING OF DAMAGED TREE WRAP MATERIAL, RESETTling PLANTS TO PROPER GRADES AND UPRIGHT POSITION, AND FURNISHING AND APPLYING SUCH SPRAYS AS ARE NECESSARY TO KEEP PLANTINGS REASONABLY FREE OF DAMAGING INSECTS AND DISEASE, AND IN HEALTHY CONDITION. THE THRESHOLD FOR APPLYING INSECTICIDES AND HERBICIDE SHALL FOLLOW ESTABLISHED INTEGRATED PEST MANAGEMENT (IPM) PROCEDURES. MULCH AREAS SHALL BE KEPT REASONABLY FREE OF WEEDS, GRASS.

3.22 SUBSTANTIAL COMPLETION ACCEPTANCE

- A. UPON WRITTEN NOTICE FROM THE CONTRACTOR, THE OWNERS REPRESENTATIVE SHALL REVIEW THE WORK AND MAKE A DETERMINATION IF THE WORK IS SUBSTANTIALLY COMPLETE.
1. NOTIFICATION SHALL BE AT LEAST 7 DAYS PRIOR TO THE DATE THE CONTRACTOR IS REQUESTING THE REVIEW.
- B. THE DATE OF SUBSTANTIAL COMPLETION OF THE PLANTING SHALL BE THE DATE WHEN THE OWNER'S REPRESENTATIVE ACCEPTS THAT ALL WORK IN PLANTING, PLANTING SOIL, AND IRRIGATION INSTALLATION SECTIONS IS COMPLETE.
- C. THE PLANT WARRANTY PERIOD BEGINS AT DATE OF WRITTEN NOTIFICATION OF SUBSTANTIAL COMPLETION FROM THE OWNER'S REPRESENTATIVE. THE DATE OF SUBSTANTIAL COMPLETION MAY BE DIFFERENT THAN THE DATE OF SUBSTANTIAL COMPLETION FOR THE OTHER SECTIONS OF THE PROJECT.

3.23 MAINTENANCE DURING THE WARRANTY PERIOD BY OTHERS

- A. AFTER SUBSTANTIAL COMPLETION ACCEPTANCE, THE CONTRACTOR SHALL MAKE SUFFICIENT SITE VISITS TO OBSERVE THE OWNER'S MAINTENANCE AND BECOME AWARE OF PROBLEMS WITH THE MAINTENANCE IN TIME TO REQUEST CHANGES, UNTIL THE DATE OF END OF WARRANTY FINAL ACCEPTANCE.
1. NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING IF MAINTENANCE, INCLUDING WATERING, IS NOT

SUFFICIENT TO MAINTAIN PLANTS IN A HEALTHY CONDITION. SUCH NOTIFICATION MUST BE MADE IN A TIMELY PERIOD SO THAT THE OWNER'S REPRESENTATIVE MAY TAKE CORRECTIVE ACTION.

- A. NOTIFICATION MUST DEFINE THE MAINTENANCE NEEDS AND DESCRIBE ANY CORRECTIVE ACTION REQUIRED.
2. IN THE EVENT THAT THE CONTRACTOR FAILS TO VISIT THE SITE AND OR NOTIFY, IN WRITING, THE OWNER'S REPRESENTATIVE OF MAINTENANCE NEEDS, LACK OF MAINTENANCE SHALL NOT BE USED AS GROUNDS FOR VOIDING OR MODIFYING THE PROVISIONS OF THE WARRANTY.
- 3.24 MAINTENANCE DURING THE WARRANTY PERIOD BY THE PLANT INSTALLER
- A. DURING THE WARRANTY PERIOD, PROVIDE ALL MAINTENANCE FOR ALL PLANTINGS TO KEEP THE PLANTS IN A HEALTHY STATE AND THE PLANTING AREAS CLEAN AND NEAT.
- B. GENERAL REQUIREMENTS:

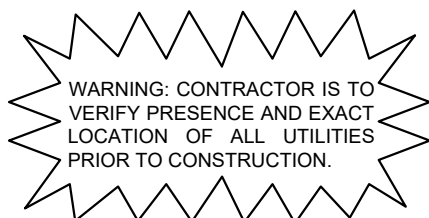
1. ALL WORK SHALL BE UNDERTAKEN BY TRAINED PLANTING CREWS UNDER THE SUPERVISION OF A FOREMAN WITH A MINIMUM OF 5 YEARS EXPERIENCE SUPERVISING COMMERCIAL PLANT MAINTENANCE CREWS.
2. ALL CHEMICAL AND FERTILIZER APPLICATIONS SHALL BE MADE BY LICENSED APPLICATORS FOR THE TYPE OF CHEMICALS TO BE USED. ALL WORK AND CHEMICAL USE SHALL COMPLY WITH ALL APPLICABLE LOCAL, PROVINCIAL AND FEDERAL REQUIREMENTS.
3. ASSURE THAT HOSES AND WATERING EQUIPMENT AND OTHER MAINTENANCE EQUIPMENT DOES NOT BLOCK PATHS OR BE PLACED IN A MANNER THAT MAY CREATE TRIPPING HAZARDS. USE STANDARD SAFETY WARNING BARRIERS AND OTHER PROCEDURES TO MAINTAIN THE SITE IN A SAFE MANNER FOR VISITORS AT ALL TIMES.
4. ALL WORKERS SHALL WEAR REQUIRED SAFETY EQUIPMENT AND APPAREL APPROPRIATE FOR THE TASKS BEING UNDERTAKEN.
5. THE CONTRACTOR SHALL NOT STORE MAINTENANCE EQUIPMENT AT THE SITE AT TIMES WHEN THEY ARE NOT IN USE UNLESS AUTHORIZED IN WRITING BY THE OWNER'S REPRESENTATIVE.
6. MAINTENANCE VEHICLES SHALL NOT PARK ON THE SITE INCLUDING WALKS AND LAWN AREAS AT ANY TIME WITHOUT THE OWNER'S REPRESENTATIVE'S WRITTEN PERMISSION.
7. MAINTAIN A DETAILED LOG OF ALL MAINTENANCE ACTIVITIES INCLUDING TYPES OF TASKS, DATE OF TASK, TYPES AND QUANTITIES OF MATERIALS AND PRODUCTS USED, WATERING TIMES AND AMOUNTS, AND NUMBER OF EACH CREW. PERIODICALLY REVIEW THE LOGS WITH THE OWNER'S REPRESENTATIVE, AND SUBMIT A COPY OF THE LOGS AT THE END OF EACH YEAR OF THE MAINTENANCE AGREEMENT.
8. MEET WITH THE OWNER'S REPRESENTATIVE A MINIMUM OF THREE TIMES A YEAR TO REVIEW THE PROGRESS AND DISCUSS ANY CHANGES THAT ARE NEEDED IN THE MAINTENANCE PROGRAM. AT THE END OF THE WARRANTY PERIOD ATTEND A HAND OVER MEETING TO FORMALLY TRANSFER THE RESPONSIBILITIES OF MAINTENANCE TO THE OWNER'S REPRESENTATIVE. PROVIDE ALL INFORMATION ON PAST MAINTENANCE ACTIVITIES AND PROVIDE A LIST OF CRITICAL TASKS THAT WILL BE NEEDED OVER THE NEXT 12 MONTHS. PROVIDE ALL MAINTENANCE LOGS AND SOIL TEST DATA. MAKE THE CONTRACTOR'S SUPERVISOR AVAILABLE FOR A MINIMUM OF ONE YEAR AFTER THE END OF THE WARRANTY PERIOD TO ANSWER QUESTIONS ABOUT PAST MAINTENANCE.
- C. PROVIDE THE FOLLOWING MAINTENANCE TASKS:

1. WATERING; PROVIDE ALL WATER REQUIRED TO KEEP SOIL WITHIN AND AROUND THE ROOT BALLS AT OPTIMUM MOISTURE CONTENT FOR PLANT GROWTH.
- a. MAINTAIN ALL WATERING SYSTEMS AND EQUIPMENT AND KEEP THEM OPERATIONAL.
- b. MONITOR SOIL MOISTURE TO PROVIDE SUFFICIENT WATER. CHECK SOIL MOISTURE AND ROOT BALL MOISTURE WITH A SOIL MOISTURE METER ON A REGULAR BASIS AND RECORD MOISTURE READINGS. DO NOT OVER WATER.
2. SOIL NUTRIENT LEVELS: TAKE A MINIMUM OF 4 SOIL SAMPLES FROM AROUND THE SITE IN THE SPRING AND FALL AND HAVE THEM TESTED BY AN ACCREDITED AGRICULTURAL SOIL TESTING LAB FOR CHEMICAL COMPOSITION OF PLANT REQUIRED NUTRIENTS, PH, SALT AND % ORGANIC MATTER. TEST RESULTS SHALL INCLUDE LABORATORY RECOMMENDATIONS FOR NUTRIENT APPLICATIONS. APPLY FERTILIZERS AT RATES RECOMMENDED BY THE SOIL TEST.
- a. MAKE ANY OTHER SOIL TEST AND/OR PLANT TISSUE TEST THAT MAY BE INDICATED BY PLANT CONDITIONS THAT MAY NOT BE RELATED TO SOIL NUTRIENT LEVELS SUCH AS SOIL CONTAMINATED BY OTHER CHEMICALS OR LACK OF CHEMICAL UPTAKE BY THE PLANT.
3. PLANT PRUNING: REMOVE CROSS OVER BRANCHING, SHORTEN OR REMOVE DEVELOPING CO DOMINANT LEADERS, DEAD WOOD AND WINTER-DAMAGED BRANCHES. UNLESS DIRECTED BY THE OWNER'S REPRESENTATIVE, DO NOT SHEAR PLANTS OR MAKE HEADING CUTS.
4. RESTORE PLANTS: RESET ANY PLANTS THAT HAVE SETTLED OR ARE LEANING AS SOON AS THE CONDITION IS NOTICED.
5. GUYING AND STAKING: MAINTAIN PLANT GUYS IN A TAUGHT POSITION. REMOVE TREE GUYS AND STAKING AFTER THE FIRST FULL GROWING SEASON UNLESS DIRECTED BY OWNER'S REPRESENTATIVE.
6. WEED CONTROL: KEEP ALL BEDS FREE OF WEEDS. HAND-REMOVE ALL WEEDS AND ANY PLANTS THAT DO NOT APPEAR ON THE PLANTING PLAN. CHEMICAL WEED CONTROL IS PERMITTED ONLY WITH THE APPROVAL OF THE OWNER'S REPRESENTATIVE. SCHEDULE WEEDING AS NEEDED BUT NOT LESS 12 TIMES PER YEAR.
7. TRASH REMOVAL: REMOVE ALL TRASH AND DEBRIS FROM ALL PLANTING BEDS AND MAINTAIN THE BEDS IN A NEAT AND TIDY APPEARANCE. THE NUMBER OF TRASH AND DEBRIS REMOVAL VISITS SHALL BE NO LESS THAN 12 TIMES PER YEAR AND MAY COINCIDE WITH OTHER MAINTENANCE VISITS.
8. PLANT PEST CONTROL: MAINTAIN DISEASE, INSECTS AND OTHER PESTS AT MANAGEABLE LEVELS. MANAGEABLE LEVELS SHALL BE DEFINED AS DAMAGE TO PLANTS THAT MAY BE NOTICEABLE TO A PROFESSIONAL BUT NOT TO THE AVERAGE PERSON. USE LEAST INVASIVE METHODS TO CONTROL PLANT DISEASE AND INSECT OUTBREAKS.
- D. THE OWNER'S REPRESENTATIVE MUST APPROVE IN ADVANCE THE USE OF ALL CHEMICAL PESTICIDE APPLICATIONS.
1. PLANT REPLACEMENT: REPLACE ALL PLANTS THAT ARE DEFECTIVE AS DEFINED IN THE WARRANTY PROVISIONS, AS SOON AS THE PLANT DECLINE IS OBVIOUS AND IN SUITABLE WEATHER AND SEASON FOR PLANTING AS OUTLINED IN ABOVE SECTIONS. PLANTS THAT BECOME DEFECTIVE DURING THE MAINTENANCE PERIOD SHALL BE COVERED AND REPLACED UNDER THE WARRANTY PROVISIONS.
2. MULCH: REFRESH MULCH ONCE A YEAR TO MAINTAIN COMPLETE COVERAGE BUT DO NOT OVER MULCH. AT NO TIME SHALL THE OVERALL MULCH THICKNESS BE GREATER THAN 4 INCHES. DO NOT APPLY MULCH WITHIN 6 INCHES OF THE TRUNKS OR STEMS OF ANY PLANTS. REPLACEMENT MULCH SHALL MEET THE REQUIREMENTS OF THE ORIGINAL APPROVED MATERIAL. MULCH SHALL BE NO MORE THAN ONE INCH ON TOP OF THE ROOT BALL SURFACE.
3. BED EDGING: CHECK AND MAINTAIN EDGES BETWEEN MULCH AND LAWN AREAS IN SMOOTH NEAT LINES AS ORIGINALLY SHOWN ON THE DRAWINGS.
4. LEAF, FRUIT AND OTHER PLANT DEBRIS REMOVAL: REMOVE FALL LEAF, SPENT FLOWERS, FRUIT AND PLANT PART ACCUMULATIONS FROM BEDS AND PAVED SURFACES. MAINTAIN ALL SURFACE WATER DRAINS FREE OF DEBRIS. DEBRIS REMOVAL SHALL BE UNDERTAKEN AT EACH VISIT TO WEED OR PICK UP TRASH IN BEDS.
5. DAMAGE FROM SITE USE: REPAIR OF DAMAGE BY SITE VISITORS AND EVENTS, BEYOND NORMAL WEAR, ARE NOT PART OF THIS MAINTENANCE. THE OWNER'S REPRESENTATIVE MAY REQUEST THAT THE CONTRACTOR REPAIR DAMAGE BEDS OR PLANTINGS FOR AN ADDITIONAL COST. ALL ADDITIONAL WORK SHALL BE APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.

3.25 END OF WARRANTY FINAL ACCEPTANCE / MAINTENANCE OBSERVATION

- A. AT THE END OF THE WARRANTY AND MAINTENANCE PERIOD THE OWNER'S REPRESENTATIVE SHALL OBSERVE THE WORK AND ESTABLISH THAT ALL PROVISIONS OF THE CONTRACT ARE COMPLETE AND THE WORK IS SATISFACTORY.
1. IF THE WORK IS SATISFACTORY, THE MAINTENANCE PERIOD WILL END ON THE DATE OF THE FINAL OBSERVATION.
2. IF THE WORK IS DEEMED UNSATISFACTORY, THE MAINTENANCE PERIOD WILL CONTINUE AT NO ADDITIONAL EXPENSE TO THE OWNER UNTIL THE WORK HAS BEEN COMPLETED, OBSERVED, AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- B. FAILURE TO PASS OBSERVATION: IF THE WORK FAILS TO PASS FINAL OBSERVATION, ANY SUBSEQUENT OBSERVATIONS MUST BE RESCHEDULED AS PER ABOVE. THE COST TO THE OWNER FOR ADDITIONAL OBSERVATIONS WILL BE CHARGED TO THE CONTRACTOR AT THE PREVAILING HOURLY RATE OF THE OWNERS REPRESENTATIVE.

END OF SECTION 32 9300



Know what's

PART 1 - GENERAL

1.1 SECTION INCLUDES

- 1.3 PROTECTION**
- A. PROTECT PAVING SURFACES, CURBS, UTILITIES, PLANT MATERIALS, AND OTHER EXISTING IMPROVEMENTS FROM DAMAGE BY HEAVY EQUIPMENT.
 - B. LOCATE AND STAKE IRRIGATION HEADS, VALVE RISERS AND EQUIPMENT PRIOR TO BEGINNING SOIL PREPARATION WORK.
 - C. DURING WORK AND MAINTENANCE PERIOD, MAINTAIN TOPSOIL IN PLACE AT ESTABLISHED GRADES. REPLACE TOPSOIL AND GRASS LOSSES DUE TO EROSION.
 - D. PROTECT IN PLACE WORK FROM DAMAGE BY HEAVY EQUIPMENT. PREPARE, GRADE, LEVEL, AND REPLANT DAMAGED AREAS.

1.4 SUBSTANTIAL COMPLETION & PROJECT CLOSEOUT

- 1.5 QUALITY ASSURANCE**
- A. GENERAL:** COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK.
- B. PERSONNEL:** EMPLOY ONLY EXPERIENCED PERSONNEL WHO ARE FAMILIAR WITH THE REQUIRED WORK. PROVIDE SUPERVISION BY A QUALIFIED FOREMAN.

1.6 GUARANTEE

- 1.7 **JOB CONDITIONS**
- A. DO NOT INSTALL SOD OR SEED ON SATURATED OR FROZEN SOIL.
- B. SOD AND SEED INSTALLATION SHALL BE SUBJECT TO SUITABILITY OF THE WEATHER AND OTHER CONDITIONS AFFECTING SOD GROWTH.

1.8 PROGRESS MEETING:

- A. CONTRACTOR SHALL ATTEND ALL PROGRESS MEETINGS AS REQUESTED BY THE OWNER'S REPRESENTATIVE DURING INSTALLATION

1.9 QUANTITY VERIFICATION

- A. THE BIDDING CONTRACTOR IS RESPONSIBLE FOR THE INCLUSION OF ALL MATERIALS, LABOR AND EQUIPMENT AS OUTLINED IN THE PLANS AND SPECIFICATION. THE PLANT LIST IS PROVIDED TO THE BIDDING CONTRACTOR AS A CONVENIENCE AND THE QUANTITIES ARE APPROXIMATE. VERIFICATION OF ALL QUANTITIES IS THE SOLE RESPONSIBILITY OF THE BIDDING CONTRACTOR. ANY DISCREPANCIES MUST BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO SUBMITTAL OF BID.

PART 2 PRODUCTS

2.1 GRASS

- B. RATE: 2 - 3 POUNDS PER 1,000 SQUARE FEET.
2. TYPES:
- | <u>TYPES</u> | <u>PARTS</u> | <u>PURITY</u> | <u>GERMINATION</u> |
|--------------|--------------|---------------|--------------------|
| MIX | 100% | 95% | 95% |

2.2 MULCH

- 2.3 TOPSOIL
- A. GENERAL TOPSOIL
1. REFERENCE PLANTING SOIL PLANS.

2.4 SEEDING ACCESSORIES

- ## 2.5 FERTILIZER
- A. GENERAL:
1. FERTILIZER SHALL BE COMMERCIAL PRODUCT, UNIFORM IN COMPOSITION, FREE FLOWING, AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT.
 2. DELIVER FERTILIZER TO SITE IN FULLY LABELED ORIGINAL CONTAINERS.
 3. FERTILIZER WHICH HAS BEEN EXPOSED TO HIGH HUMIDITY AND MOISTURE HAS BECOME CAKED OR OTHERWISE DAMAGED, MAKING IT UNSUITABLE FOR USE, WILL NOT BE ACCEPTABLE.
- B. INITIAL APPLICATION:
1. 17% NITROGEN
 2. 17% PHOSPHORIC ACID
 3. 17% POTASH
- C. SECOND APPLICATION:
1. 21% NITROGEN

2. 0% PHOSPHORIC ACID
3. 0% POTASH

PART 3 EXECUTION

3.1 GENERAL

- 3.4. FERTILIZING**
- A. THE FERTILIZER TYPES AND RATES SPECIFIED HEREIN ARE APPLICABLE UNLESS COUNTERMANEDED BY THE SOIL FERTILITY TEST CORRECTIVE RECOMMENDATIONS, IN WHICH CASE THEY WILL BE APPLICABLE.**
- B. BERMUDA SODDING:**
1. INITIAL APPLICATION: APPLY NO MORE THAN 5 DAYS PRIOR TO COMMENCEMENT OF SODDING OPERATIONS AT A RATE OF 20 POUNDS PER 1,000 SQUARE FEET. INCORPORATE INTO SOIL WITH A CHAIN HARROW.
 2. SECOND AND THIRD APPLICATIONS: APPLY EVERY 25 DAYS AFTER SODDING AT A RATE OF 10 POUNDS PER 1,000 SQUARE FEET.
 3. IRRIGATE THE AREA WITH A MINIMUM OF .25 INCHES OF WATER TO PROPERLY INCORPORATE THE FERTILIZER INTO THE TURF.

3.5 PLANTING SOD

- C. WATERING:
1. INITIAL INSTALLATION: WATER MUST BE APPLIED WITHIN 2 HOURS OF EXPOSURE OF THE SOD TO SUN OR HEAT. WATER NEWLY LAYED SOD UNTIL SATURATION OF THE ENTIRE AREA IS APPARENT. AS A RESULT OF INITIAL IRRIGATION, STANDING WATER MAY BE PRESENT AND MAY TEND TO HEAVY RUN OFF MAY OCCUR. CONTINUE TO IRRIGATE DAILY IN SHORTER DURATIONS SO THE ENTIRE AREA STAYS THOROUGHLY WET BUT WITHOUT STANDING WATER. THE LENGTH OF IRRIGATION TIME AND FREQUENCY OF APPLICATIONS WILL VARY AT DIFFERENT LOCATIONS DUE TO WEATHER CONDITIONS AND INDIVIDUAL SITE CHARACTERISTICS.
 2. AFTER 7 TO 10 DAYS: CHECK FOR NEW ROOT GROWTH BY LIFTING CORNERS OF SOD BLOCKS. IF CONSISTENT ROOT GROWTH AROUND THE ENTIRE SITE IS OBSERVED, WATERING CAN BE REDUCED TO ONCE PER WEEK ON THE FOLLOWING DAY.
 3. AFTER 12 TO 14 DAYS: CHECK FOR ADDITIONAL ROOTING. IF SOD BLOCKS ARE DIFFICULT TO LIFT OR IF ADDITIONAL NEW ROOTS ARE PRESENT ALONG THE AREA, TRY TO THE EXTENT THAT MOWING CAN BE PERFORMED. LPR OR ADDITIONAL NEW

3.6 SEEDING LAWNS

- A. SEEDING LIMITS: ALL GROUND AREA WITHIN THE INDICATED PROJECT LIMIT LINES, OR ANY ADDITIONAL AREA WHICH HAS BEEN DISTURBED IN ANY WAY BY THE CONSTRUCTION OPERATIONS, SHALL BE FINE GRADED AND PLANTED IN SEED OR SOD UNLESS OTHERWISE INDICATED ON THE DRAWINGS TO BE COVERED WITH TREES, SHRUBS, STRUCTURE(S), WALKS, ROADS, OR OTHER SURFACE AREAS.
- B. RESPONSIBILITY: THE CONTRACTOR SHALL UTILIZE ALL SUCH MEASURES AS MAY BE NECESSARY, INCLUDING, BUT NOT LIMITED TO, PROTECTIVE FENCING, SOD, OR EROSION CONTROL NETTING TO PRODUCE A FINISHED CONTINUOUS BLANKET OF TURF OVER ALL AREAS DESIGNATED TO RECEIVE TURF.
1. ANY AREAS EXCEEDING 5:1 SLOPE SHOULD BE TREATED WITH EROSION CONTROL BLANKETS BY CURLEX®, APPROVED EQUAL, OR OTHER EROSION CONTROL METHODS DEEMED NECESSARY BY THE CONTRACTOR TO ESTABLISH A SOUND LAWN AREA.
- C. FERTILIZER
1. APPLY FERTILIZER TO INDICATED TURF AREAS AT A RATE EQUAL TO 1.0 POUND OF ACTUAL NITROGEN PER 1,000 SQUARE FEET OF GROUND OF FERTILIZER PER ACRE
2. APPLY FERTILIZERS BY MECHANICAL, ROTARY OR DROPPED TYPE DISTRIBUTOR, THOROUGHLY AND EVENLY INCORPORATED INTO SOIL TO A DEPTH OF 3" BY DISCING OR OTHER APPROVED METHOD. FERTILIZE AREAS INACCESSIBLE TO POWER EQUIPMENT WITH HAND TOOLS AND INCORPORATE INTO SOIL.
3. RESTORE PREPARED AREAS TO SPECIFIED CONDITION IF ERODED, SETTLED, OR OTHERWISE DISTURBED, AFTER FINE GRADING AND PRIOR TO SEEDING.
- D. HYDROSEEDING
- USE A HYDROMULCHER (SPRAYER) AND APPLY MIXTURE(S) AT THE FOLLOWING RATES. MIX IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
1. LAWNS
- a. GRASS SEED: PER SEED TYPE.
- b. FERTILIZER: PER SOIL TEST REPORT RECOMMENDATIONS.

3.7 GRADING

- ### 3.9 CLEAN-UP
- A. REMOVE EXCESS MATERIAL AND DEBRIS FROM SITE.

- 3.10 MAINTENANCE**
- A. UNTIL FINAL ACCEPTANCE, MAINTAIN LAWN AND GRASS AREAS BY WATERING, MOWING, WEEDING, SPRAYING, CLEANING AND REPLACING AS NECESSARY TO KEEP THE TURF AND GRASS IN A VIGOROUS, HEALTHY CONDITION.
1. WATERING: AS NECESSARY.
2. MOWING:
- a) MOW NEWLY PLANTED GRASS AREAS WEEKLY AFTER INITIAL GROWTH REACHES 1.5 TO 2 INCHES.
3. WEEDING: REMOVE WEEDS AND FOREIGN GRASS OVER LAWN AND GRASS AREAS AT LEAST ONCE A WEEK. HERBICIDES MAY BE USED ONLY WHEN APPROVED BY THE OWNER'S REPRESENTATIVE.

END OF SECTION 329210



**ATTACHMENT N – Inspection, Maintenance, Repair
and Retrofit Plan**

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: HL Fund III Scottsdale Crossing LP

Mailing Address: 5950 Berkshire Ln #STE 900


City, State: Dallas, Texas Zip: 75225

Telephone: (972) 241-8300 Fax: _____

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  Date 9/3/25
VP of general partner

This Maintenance Plan is based on TCEQ Maintenance Guidelines.

By:  Date 09/02/2025
Ian Roberts, P.E.

Addendum of the TCEQ “Edwards Aquifer Technical Guidance Manual” is attached. This explains all of the routine and non-routine maintenance and inspections associated with bioretention ponds.

Inspections.

Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.

Mowing.

The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

Litter and Debris Removal.

Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

Erosion control.

The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.

Nuisance Control.

Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

Structural Repairs and Replacement.

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

Sediment Removal.

A properly designed batch detention basin will accumulate quantities of sediment over time. The

accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

Logic Controller.

The Logic Controller should be inspected as part of the twice yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

ATTACHMENT O – Pilot-Scale Field Testing Plan

N/A

ATTACHMENT P – Measures for Minimizing Surface Stream Contamination

Any points where discharge from the site is concentrated and excessive velocities exist will include appropriately sized energy dissipaters to reduce velocities to non-erosive levels. The proposed WQ pond system will minimize surface stream contamination by removing potential pollutants. Erosion and Sedimentation Control measures are proposed for the construction phase per plan set included with this application.

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: _____

Date: _____

Signature of Customer/Agent:



Regulated Entity Name: _____

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: _____

Temporary Best Management Practices (TBMPs)

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

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

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

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

Soil Stabilization Practices

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

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

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

Administrative Information

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

ATTACHMENT A – Spill Response Actions

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of the materials and substances described above to storm water runoff.

Education

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

General Measures

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

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

Cleanup

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

Minor Spills

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

Semi-Significant Spills – can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities. Spills should be cleaned up immediately:

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

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

Vehicle and Equipment Maintenance

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

Vehicle and Equipment Fueling

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

Reportable Quantities

Reportable Quantities (RQ's) according to the spill rule, 30 TAC 327.1-327.5

Type of Spill	Site of Spill	
	On Land	In Water
Hazardous Substance		
If CERCLA RQ = 1-100lb	CERCLA RQ	CERCLA RQ
If CERCLA RQ > 100lb	CERCLA RQ	100lb
Crude Oil, used oil, or petroleum product	210 gal	Enough to form a sheen
At a PST exempt facility*	210 gal	Enough to form a sheen
All others	25 gal	Enough to form a sheen
Oil other than crude oil, used oil or petroleum product	210 gal	Enough to form a sheen
Other substances	No RQ	100 lb
Industrial solid waste	No RQ	100 lb
Note: This table applies only to the reporting of spills and discharges according to the spill rule, 30 TAC 327.1-327.5. To find values of CERCLA RQs for hazardous substances, please refer to 40 CFR Table 302.4. The term "PST exempt facility" refers to facilities that are exempt from the Aboveground Storage Tank program. Petrochemical plants, petroleum refineries, and electricity generation, transmission, and distribution facilities are some examples of PST exempt facilities. CERCLA refers to the Comprehensive Emergency Response, Compensation, and Liability Act.		

ATTACHMENT B – Potential Sources of Contamination

Sources of contamination during construction that could potentially affect surface and groundwater quality are as follows:

Potential Source	Preventative Measure
Asphalt Products used on this project	After placement of Asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur. The Contractor will be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain event.
Oil, grease, fuel and Hydraulic fluid drippings	Vehicle maintenance when possible will be performed within the construction staging area.
Miscellaneous trash and litter	Trash containers will be placed throughout the site to encourage proper trash disposal.
Construction Debris	Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addresses on a case by case basis

ATTACHMENT C – Sequence of Major Events

The installation of erosion and sedimentation controls shall occur prior to any excavation of materials or major disturbances on the site.

The sequence of major construction activities will be as follows. Approximate acreage to be disturbed is listed in parentheses next to each activity.

1. Install all temporary erosion controls. (9.4967 acres)
2. Clear and grub strip topsoil. Stockpile topsoil for later use. (9.1735 acres)
3. Grading (9.1735 acres)
4. Rough Cut Roadways and building pads (No additional area will be disturbed by this activity)
5. Install wet/dry utilities (No additional area will be disturbed by this activity)
6. Install paving improvements (No additional area will be disturbed by this activity)
7. Complete restoration of site vegetation. (No additional area will be disturbed by this activity)
8. Remove and dispose of temporary erosion controls when restoration has been accepted.

Maximum total construction time is not expected to exceed 36 months.

ATTACHMENT D – Temporary Best Management Practices and Measures

Also refer to the TCEQ Site Plan for details of TBMP's.

Silt fencing and rock berms will be installed prior to the commencement of construction to prohibit runoff of sediment. The silt fence shall be placed perpendicular to direction of flow, where feasible, to maximize efficiency. Rock berms will be used in the channels. If there are any, potentially sensitive features, a silt fence will surround the site as specified by TCEQ Guidance Manual Chapter 5.

Bagged gravel inlet filters will be used and maintained in a condition to prevent runoff of sediment from flowing into drains during construction.

Stabilized construction entrance will be installed prior to the commencement of construction and will be used and maintained in a condition that will prevent tracking or flowing of sediment onto public roadway.

Concrete washouts will be installed prior to the commencement of construction and will be used and maintained in a condition that will prevent the concrete wash out water from contributing to groundwater contamination.

a.) Silt fence will not be placed on the upstream side of the site because there will be no stormwater that originates upgradient of the site. All upgradient stormwater is captured in onsite storm water system that discharges to a drainage easement to the east of the development.

b.) Silt fencing, rock berms and bagged gravel inlet filters will be used on-site to filter out pollutants and restrict sediment from leaving the site. Silt fencing will be placed in existing and proposed channels and downstream of flow on site. Bagged gravel inlet filters will be placed around proposed inlets to capture any suspended solids. Rock berms will be used

c.) Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. Silt Fencing, bagged gravel inlet filters and construction entrance measures prevent sediment and pollution by filtering and routing water. These filtered pollutants are then removed and prevented from entering surface streams, sensitive features, or the aquifer.

d.) BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMP's. Silt fencing and bagged gravel inlet filters will be placed to intercept and detain water with sediment or pollution from entering or leaving the site to any unprotected areas. The BMP's will filter out sediment and pollution while allowing filtered water to flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

ATTACHMENT E – Request to Temporarily Seal a Feature

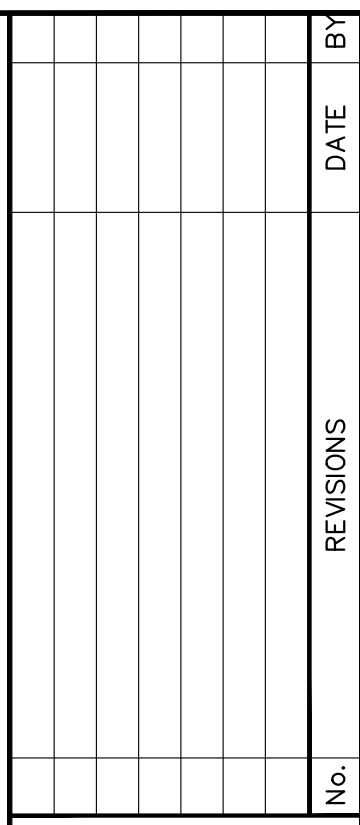
N/A

ATTACHMENT F – Structural Practices

The structural practices that will be used to divert and store flows, and limit runoff discharge or pollutants will be the use of silt fences, inlet protection, storm sewer trenches, and construction entrance stabilization.

ATTACHMENT G – Drainage Area Map

Drainage area map has been included with this submittal package.



KHA PROJECT	DATE	SCALE:	DRAWN BY:	CHECKED BY:
065008000	AUGUST 2025	AS SHOWN	JIR	JIR

EXISTING DRAINAGE AREA MAP

CEDAR PARK
INDUSTRIAL
CITY OF CEDAR PARK
WILLIAMSON COUNTY, TX 73641

SHEET NUMBER
10 OF 38

TIME OF CONCENTRATION	Area		Sheet Flow				Shallow Concentrated Flow Unpaved				Shallow Concentrated Flow Paved				Channel Flow				Actual	Design
	ac	n	S	L	T ₁₁	L	S	V	T ₁₂	L	S	V	T ₁₂	L	S	V	T ₁₃	T _c , min.	T _c , min.	
Existing Drainage Area	ac	n	S	L	T ₁₁	L	S	V	T ₁₂	L	S	V	T ₁₂	L	S	V	T ₁₃	T _c , min.	T _c , min.	
EX-A	2.89	0.02	0.015	100.0	1.9	483.5	0.030	2.79	2.9	141.0	0.030	2.79	0.8	0.0	0.000	0.0	0.0	5.65	5.65	
EX-B	6.29	0.02	0.026	100.0	1.2	490.8	0.032	2.86	2.9	178.0	0.027	2.65	1.1	183.9	0.022	5.8	0.5	5.73	5.73	
RUNOFF COEFFICIENT	Area	Impervious Cover		Impervious Area		Impervious Coefficient		Pervious Area		Pervious Coefficient		Composite Coefficient		<i>i</i> ₂₅	<i>i</i> ₁₀₀		<i>Q</i> ₂₅	<i>Q</i> ₁₀₀		
Drainage Area	ac	%		ac				ac						in/hr	in/hr		cfs	cfs		
EX-A	2.89	7.30%		0.21		0.97		2.68		0.49		0.53		11.79	15.42		17.89	23.40		
EX-B	6.29	17.00%		1.07		0.97		5.23		0.49		0.57		11.79	15.42		42.40	55.45		

BM #1021
• ELEV.=926.364

BM #1052
• ELEV.=914.827

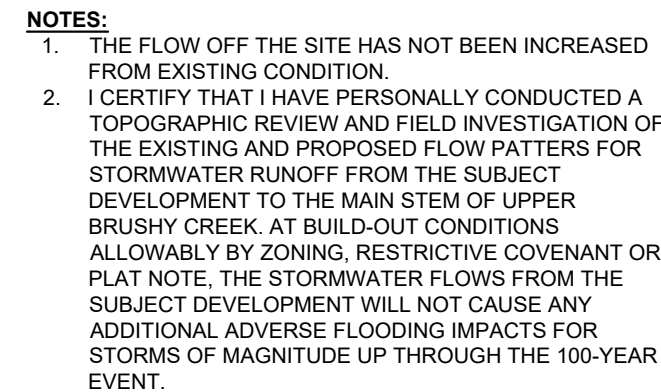
BM #2082
• ELEV.=906.293

BM #2080
• ELEV.=903.532

BM #1023
• ELEV.=898.477

BM #1022
• ELEV.=921.103





ATTACHMENT H – Temporary Sediment Pond Plan and Calculations

N/A – No temporary sediment pond is proposed.

ATTACHMENT I – Inspection and Maintenance for BMP's

PROJECT NAME: Cedar Park Industrial
ADDRESS: 6400 183A Toll Rd
CITY, STATE: Leander, TX

TEMPORARY BMP'S

SILT FENCE

- Inspections: Inspect all fencing weekly, and after any rainfall.
- Sediment Removal: Remove sediment when buildup reaches 6 inches.
- Replace any torn fabric or install a second line of fencing parallel to the torn section.
- Replace or repair any section 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.

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

INLET FILTERS

- Inspections: Should be made weekly, and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- Sediment Removal: Remove sediment when buildup reaches 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- Check placement of device to prevent gaps between device and curb.
- Inspect filter fabric and patch or replace if torn or missing.
- Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized

STABILIZED CONSTRUCTION ENTRANCE

- The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public roadways. This may require periodic top dressing with additional stone as conditions demand, as well as repair and clean out of any measure devices used to trap sediment.
- All sediment that is spilled, dropped, washed or tracked onto public roadway must be removed immediately by contractor.

Note: The stabilized construction entrance will be removed once the driveway to the proposed site is complete. Disposal of accumulated silt shall be accomplished following TCEQ guidelines and specifications.

CONCRETE WASHOUT

- Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

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.

This Maintenance Plan is based on TCEQ Maintenance Guidelines.

**EDWARDS AQUIFER CONTRIBUTING ZONE
STORMWATER QUALITY MAINTENANCE PLAN**

INSTALLATION		MAINTENANCE		REMOVAL	
DATE	CONTROL TYPE	DATE	CONTROL TYPE	DATE	CONTROL TYPE

Note: Reference Contributing Zone Application Attachment N Maintenance Plan and Schedule for BMP's

ATTACHMENT J – Schedule of Interim and Permanent Soil Stabilization Practices

Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have ceased, temporarily or permanently, but in no case more than 14 days after the construction activity in that portion of the site concluded. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

SOIL STABILIZATION PRACTICES:

- ☒ HYDROMULCHING
- ☐ TEMPORARY SEEDING
- ☒ PERMANENT PLANTING, SODDING, OR SEEDING
- ☐ MULCHING
- ☒ SOIL RETENTION BLANKET
- ☐ BUFFER ZONES
- ☒ PRESERVATION OF NATURAL RESOURCES

OTHER: Disturbed areas, in which construction activity has ceased temporarily or permanently, shall be stabilized within 14 days unless activities are scheduled to resume and done within 21 days.

SIGNATURE PAGE:

Hutton Lunsford
Applicant's Signature

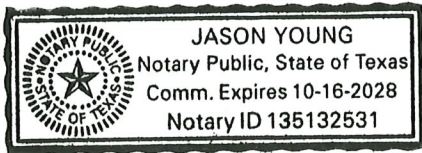
9/2/25
Date

THE STATE OF TEXAS §

County of DALLAS §

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

GIVEN under my hand and seal of office on this 2ND day of SEPTEMBER, 2025.



Jason Young
NOTARY PUBLIC

JASON YOUNG
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 10/16/2028

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

I _____ Hutton Lunsford _____
Print Name

_____ Vice President _____
Title - Owner/President/Other

of _____ HL FUND III SCOTTSDALE CROSSING, L.P. _____
Corporation/Partnership/Entity Name

have authorized _____ Ian Roberts _____
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.

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Cedar Park Industrial

Regulated Entity Location: 6400 183A Toll Rd, Leander, Texas, 78641

Name of Customer: HL Fund III Scottsdale Crossing LP

Contact Person: Jon Lueders

Phone: (972) 241-8300

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN 110848983

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☒ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	9.1735 Acres	\$ 5,000
Sewage Collection System	0 L.F.	\$ 0
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: _____

Date: 9/22/2025

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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



TCEQ Core Data Form

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

SECTION I: General Information

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

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		7/29/2025	
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input checked="" type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
HL Fund III Scottsdale Crossing LP				James Avery Craftsman, Inc.	
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0806007181		32099899265			
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:	5950 Berkshire Ln				
	Suite 900				
	City	Dalla	State	TX	ZIP 75225 ZIP + 4
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(972) 265-0140		() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If "New Regulated Entity" is selected, a new permit application is also required.)								
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Ceda Park Industrial								
23. Street Address of the Regulated Entity: (No PO Boxes)	6400 183A Toll Rd							
	City	Leander	State	TX	ZIP	78641	ZIP + 4	
24. County	Williamson							

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

25. Description to Physical Location:	NE Corner of Scottsdale Dr and 183 Frontage Rd plus empty lot directly north.							
26. Nearest City					State	Nearest ZIP Code		
Cedar Park					TX	78641		
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>								
27. Latitude (N) In Decimal:		30.550968			28. Longitude (W) In Decimal:		-97.817700	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
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)		
5944			448310					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Light Industrial Land Development								
34. Mailing Address:	5950 Berkshire Lane							
	Suite 900							
	City	Dallas	State	TX	ZIP	75225	ZIP + 4	
35. E-Mail Address:	jlueders@holtlunsford.com							
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
(972) 265-140					() -			

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


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Ian Roberts	41. Title:	Professional Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 572-2899		() -	ian.roberts@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:	Professional Engineer
Name (In Print):	Ian Roberts	Phone:	(512) 572- 2899
Signature:		Date:	09/02/2025