CONTRIBUTING ZONE PLAN MODIFICATION

THE SHOPS AT CRYSTAL FALLS NEC GRAND LAKE PARKWAY & CRYSTAL FALLS PARKWAY LEANDER, WILLIAMSON COUNTY, TEXAS

Prepared For:

VELAR DEVELOPMENT

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Firm No. 928 KHA Project No. 069274404

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SECTION 1: EDWARDS AQUIFER APPLICATION COVER PAGE

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

- 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.tceg.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.

TCEQ-20705 (10-30-14)

- 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: Cold Springs Sections Two- Six				2. Reç	gulate	d Entity No.: I	RN10615718	3		
3. Customer Name: Pulte Homes of Te			xas LP)		4. Customer No.:				
5. Project Type: (Please circle/check one)	New		⊠ Mo	dification	on	Extens	sion	Exception		
6. Plan Type: (Please circle/check one)	WPAP	⊠ CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Measures	Enhanced
7. Land Use: (Please circle/check one)	Residen	tial	⊠ Non-residential		8. Site (acres):		3.86			
9. Application Fee:	\$4,000		10. Permanent BM		P(s):		Sed/Fil Pond			
11. SCS (Linear Ft.):	0		12. AST/UST (No. 1			Tanks)	:	0		
13. County:	Williams	on	14. Wa	atershe	ed:			Turkey Creek	-Brushy Cre	ek

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APPLICATION DISTRIBUTION

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

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

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

Austin Region						
County:	Hays	Travis	Williamson			
Original (1 req.)	_		X			
Region (1 req.)	_		X			
County(ies)			<u>X</u>			
Groundwater Conservation District(s)	Edwards Aquifer AuthorityBarton Springs/ Edwards AquiferHays TrinityPlum Creek	Barton Springs/ Edwards Aquifer	NA			
City(ies) Jurisdiction	AustinBudaDripping SpringsKyleMountain CitySan MarcosWimberleyWoodcreek	AustinBee CavePflugervilleRollingwoodRound RockSunset ValleyWest Lake Hills	AustinCedar ParkFlorenceGeorgetownJerrell X_LeanderLiberty HillPflugervilleRound Rock			

	San Antonio Region						
County:	Bexar	Comal	Kinney	Medina	Uvalde		
Original (1 req.)	_	_		_	_		
Region (1 req.)	_	_		_	_		
County(ies)	_		_		_		
Groundwater Conservation District(s)	Edwards Aquifer AuthorityTrinity-Glen Rose	Edwards Aquifer Authority	Kinney	EAA Medina	EAA Uvalde		
City(ies) Jurisdiction	Castle HillsFair Oaks RanchHelotesHill Country VillageHollywood ParkSan Antonio (SAWS)Shavano Park	Bulverde Fair Oaks Ranch Garden Ridge New Braunfels Schertz	NA	San Antonio ETJ (SAWS)	NA		

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I certify that to the best of my knowledge, that the application is hereby submitted to TCEQ for administration	
Michael Doggett	
Print Name of Custoner/Authorized Agent	
Millont	4/10/2023
Signature of Customer/Authorized Agent	Date

FOR TCEQ INTERNAL USE ONLY				
Date(s)Reviewed:		Date Adn	ninistratively Complete:	
Received From:		Correct N	lumber of Copies:	
Received By:		Distribution	on Date:	
EAPP File Number:		Complex	:	
Admin. Review(s) (No.):		No. AR R	Rounds:	
Delinquent Fees (Y/N):		Review T	ime Spent:	
Lat./Long. Verified:		SOS Cus	stomer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):		Check:	Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

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SECTION 2: MODIFICATION OF A PREVIOUSLY APPROVED CONTRIBUTING ZONE PLAN FORM

Modification of a Previously Approved Contributing Zone Plan

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: <u>Michael Doggett, P.E.</u>	
Date: <u>04/10/2023</u>	
Signature of Customer/Agent:	
Millight	

Project Information

1.	Current Regulated Entity Name: _Cold Springs Sections Two-Six
	Original Regulated Entity Name: Cold Springs Sections Two-Six
	Assigned Regulated Entity Number(s) (RN): _RN106157183
	Edwards Aquifer Protection Program ID Number(s): <u>11060801</u>
	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.

- 2. Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached.
- 3. A modification of a previously approved plan is requested for (check all that apply):

TCEQ-10259 (02-11-15)

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.

CZP Modification	Approved Project	Approved Project	Proposed Modification
Summary	EAPP. ID No. 11060801	EAPP. ID No.	
Acres	42.25		3.863
Acres			
Type of Development	Residential		Commercial/Rest
Number of Residential	N/A		N/A
Impervious Cover (acres)	20.33		3.09 new IC
			23.42 total IC
Impervious Cover (%)	48.12%		80%
Lots	194		1
Permanent BMPs	Partial Sed/Fil Pond		Partial Sed/Fil Pond
Other			
AST Modification	Approved Project	Proposed Modification	Proposed Modification
Summary			
Number of ASTs	0		0
Other	N/A		N/A
UST Modification	Approved Project	Proposed Modification	Proposed Modification
Summary			
Number of USTs	0		0
Other	N/A		N/A

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.

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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.
	igtimes 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.
	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.

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ORIGINAL APPROVAL LETTER AND APPROVED MODIFICATION LETTERS

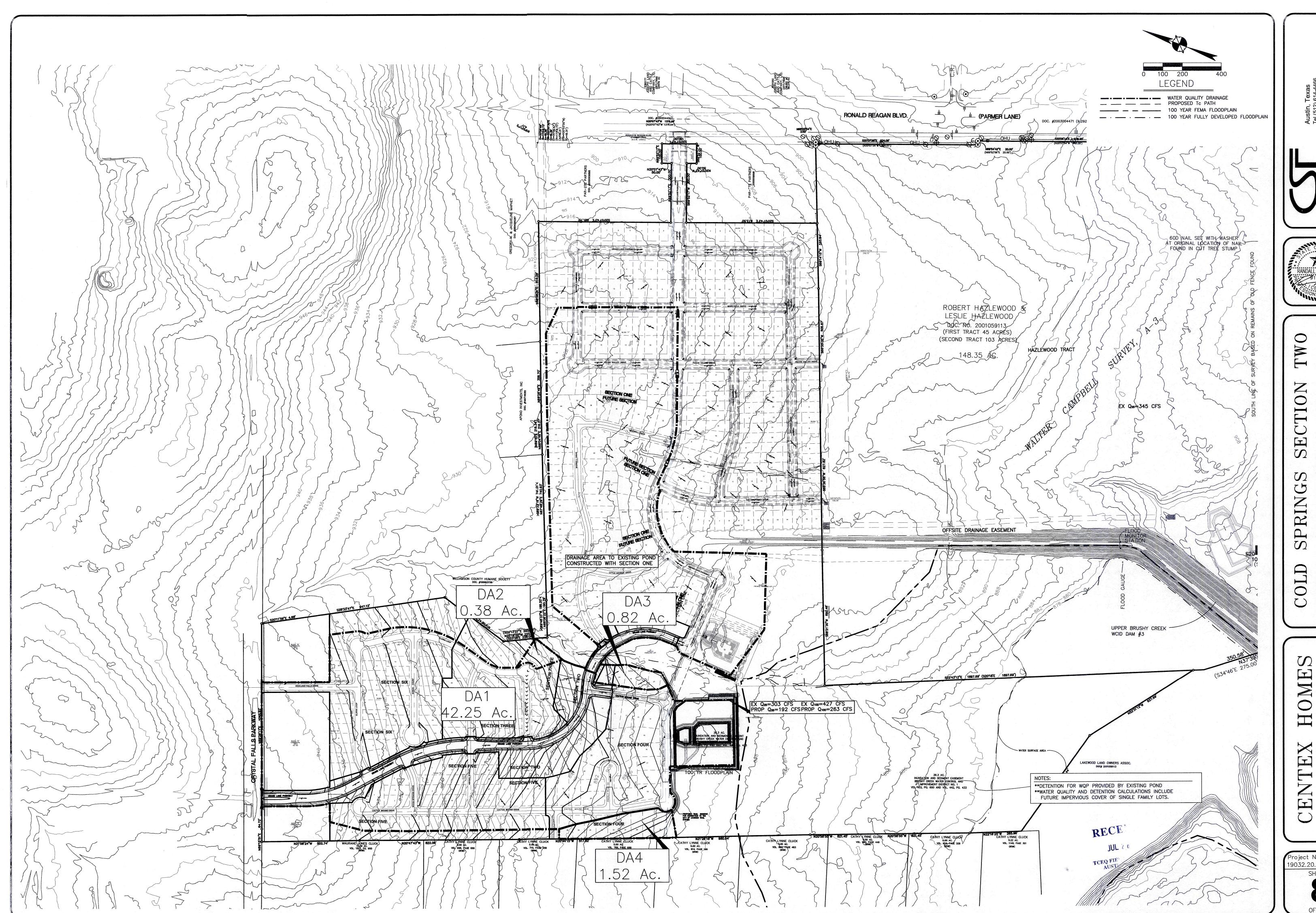
NARRATIVE OF PROPOSED MODIFICATION

The Shops at Crystal Falls is located at SEC of Crystal Falls Parkway and Grand Lake Parkway, Leander, Texas. The Shops at Crystal Falls will be constructed on one lot with a total site area of 3.86 acres. The site is within the city limits of Leander and the Contributing Zone of the Edwards Aquifer. This site is located in the Bushy Creek Watershed. No portion of the property is within the limits of the 100-year floodplain as shown on FIRM Panel No. 48491C0455F and 48491C060F, dated December 20th, 2019.

A Contributing Zone Plan (EAPP ID No. 11060801) was approved on September 11, 2011. The plan approved the construction of driveways, a water quality pond, and a detention pond to serve a master planned mixed use development of 42.25 acres. The 42.25 acres consists of Cold Springs Section 2-6 and Lots 6 and 11, Block "R" and "S" of the Cold Springs Section Two Plat. The approved plan was designed to remove 21,286 lbs of TSS Load. The existing TSS Load for the site is 20,071 lbs.

The proposed modification to the previously approved Contributing Zone Plan is limited to the development of Lots 11 Block "S", part of the Cold Springs Section 2-6. The Shops at Crystal Falls will consist of 4 mixed use buildings, reserved for retail/restaurant use, parking, drives, utilities, and associated appurtenances. The impervious cover associated with the The Shops at Crystal Falls project will be 3.09 acres. This additional impervious cover will increase the total TSS Load for the 42.25-acre development to 20,385 lbs, which is below the 21,286 lbs limit. The Shops at Crystal Falls will continue to utilize the regional pond to satisfy water quality requirements.

CURRENT SITE PLAN OF THE APPROVED PROJECT



Project No.: 19032.20.00 SHEET

Kimley » Horn

SECTION 3: CONTRIBUTING ZONE PLAN APPLICATION

Contributing Zone Plan Application

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

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

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

Signature

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

Print Name of Customer/Agent: Michael Doggett, P.E.

Date	e: <u>04/10/2023</u>		
Signa	ature of Customer/Agent:		
1	Willingt		
Regu	ulated Entity Name: <u>Cold Springs Sections Two-Six</u>	_	
Proje	ect Information		
1.	County: Williamson		
2.	Stream Basin: Bushy Creek		
3.	Groundwater Conservation District (if applicable):	: <u>Edwards Aquifer</u>	
4.	Customer (Applicant):		
	Contact Person: <u>Venkat Gudapuri</u> Entity: <u>Velar Development</u> Mailing Address: <u>3109 Kenai Drive, Suite 109</u>		
	City, State: <u>Cedar Park, TX</u>	Zip: <u>78613</u>	
	Telephone: <u>(512)-590-4165</u>	Fax:	
	Email Address: vgudapuri@gmail.com		

5.	Agent/Representative (II any):	
	Contact Person: Michael Doggett, P.E.	
	Entity: Kimley-Horn and Associates, Inc.	
	Mailing Address: 260 East Davis St Suite 100	
	City, State: _McKinney, TX	Zip: <u>75069</u>
	Telephone: <u>(469)-221-9588</u>	Fax:
	Email Address: <u>michael.doggett@kimley-horn.com</u>	_
6.	Project Location:	
	☐ The project site is located inside the city limits of _	<u>Leander</u> .
	The project site is located outside the city limits b jurisdiction) of	ut inside the ETJ (extra-territorial
	☐ The project site is not located within any city's lim	its or ETJ.
7.	☐ The location of the project site is described below been provided so that the TCEQ's Regional staff can element boundaries for a field investigation. NEC Grand Lake Parkway & Crystal Falls Parkway	•
8.	Attachment A - Road Map. A road map showing the project site is attached. The map clearly shows the	
9.	Attachment B - USGS Quadrangle Map. A copy o Quadrangle Map (Scale: 1" = 2000') is attached. The	
	☑ Project site boundaries.☑ USGS Quadrangle Name(s).	
10.	Attachment C - Project Narrative. A detailed narraproject is attached. The project description is consist 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): <u>3.86</u> Acres
	Total disturbed area: <u>3.86</u> Acres
14.	Estimated projected population: N/A
15.	The amount and type of impervious cover expected after construction is complete is

Table 1 - Impervious Cover

Impervious Cover of			
Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	33,840	÷ 43,560 =	0.78
Parking	72,360	÷ 43,560 =	1.66
Other paved surfaces	26,100	÷ 43,560 =	0.60
Total Impervious	132,300		3.04
Cover		÷ 43,560 =	

Total Impervious Cover 3.04 ÷ Total Acreage 3.863 X 100 = 78.6% Impervious Cover

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

For Road Projects Only

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

N/A

18. Type of project:

	 ☐ 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☐ Asphalt concrete pavement☐ Other:
20.	Right of Way (R.O.W.):
	Length o f R .O.W.:feet.
	Width of R .O.W.:feet. $L \times W = $ Ft ² ÷ 43,560 Ft ² /Acre =acres.
21.	Pavement Area:
	Length o f R .O.W.:feet.
	Width o f R .O.W.:feet. L x W =Ft 2 ÷ 43,560 Ft 2 /Acre =acres. Pavement areaacres ÷ R .O.W. a reaacres x 100 =% impervious cover.
22.23.	 □ A rest stop will be included in this project. □ A rest stop will not be included in this project. □ 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.
Stor	mwater 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.
Was	tewater 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:

Complete questions 22 greater than or equal N/A 27. Tanks and substance Table 2 - Tanks and AST Number 1 2	ce stored:	Substance to be Stored	T(s) with volume(s) Tank Material
greater than or equal N/A 27. Tanks and substand Table 2 - Tanks and AST Number	to 500 gallons. ce stored: Substance Storage	Substance to be	
greater than or equal ☑ N/A 27. Tanks and substance	to 500 gallons.	les the installation of AS	T(s) with volume(s)
greater than or equal ⊠ N/A	to 500 gallons.	les the installation of AS	T(s) with volume(s)
Permanent Abo	oveground Storag	e Tanks (ASTs) ≥	500 Gallons
The sewage collec	ion System (Sewer Lines): tion system will convey The treatment facility is:	the wastewater to the	<u>Leander Wastewater</u>
facility vappropi attache facilities as speci Each lot in size. register	ent F - Suitability Letter to will be used to treat and coriate licensing authority's d. It states that the land is and will meet or exceed fied under 30 TAC Chapter in this project/developm. The system will be designed sanitarian and installed apter 285.	from Authorized Agent. dispose of the wastewate (authorized agent) writter is suitable for the use of puther requirements for oner 285 relating to On-site ent is at least one (1) acrealigned by a licensed professions.	r from this site. The en approval is private sewage -site sewage facilities Sewage Facilities. e (43,560 square feet) fessional engineer or
	rage Facility (OSSF/Septic	Tank):	

☐ 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 dim	ensions and capacit	cy of containment st	ructure(s):	
Table 3 - Second	dary Containment Width(W)(Ft.)	t Height (H)(Ft.)	L x W x H = (Ft3)	Gallons
Length (L)(Ft.)	vviatn(vv)(Ft.)	Height (H)(Ft.)	L X W X H = (Ft3)	Guilons
			Tota	ıl: Gallons
30. Piping:			Tota	ii Gallons
Some of structure The pipin	the piping to disper ong will be abovegroung will be undergrou	nsers or equipment und und	inside the containme will extend outside the	ne containment
			in a material impervi ment structure will be	
	t H - AST Containment structure is attac		ings. A scaled drawir following:	ng of the
☐ Interna ☐ Tanks (☐ Piping	· -	· · · · · · · · · · · · · · · · · · ·	wall and floor thicknee collection of any spi	
from storage		be removed from th	for collection and rec ne controlled drainage	
	event of a spill, any s 24 hours of the spill	. •	oved from the contair operly.	nment structure
through	h a drain and valve	within 24 hours of t	ned from the containr he spill and disposed the scaled drawing.	

Site Plan Requirements

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

34.	\boxtimes	The Site Plan must have a minimum scale of 1" = 400'.
		Site Plan Scale: 1" = <u>30</u> '.
35.	100	O-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): _48491C0455F and 48491C060F Dated December 20 th , _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.	\boxtimes	A drainage plan showing all paths of drainage from the site to surface streams.
38.	\boxtimes	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.	\boxtimes	Locations where soil stabilization practices are expected to occur.
42.		Surface waters (including wetlands). N/A
43.		Locations where stormwater discharges to surface water.
	\boxtimes	There will be no discharges to surface water.
44.		Temporary aboveground storage tank facilities.
		Temporary aboveground storage tank facilities will not be located on this site.
45.		Permanent aboveground storage tank facilities.
	\boxtimes	Permanent aboveground storage tank facilities will not be located on this site.
46.	\boxtimes	Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed. 47. Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction. N/A 48. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director. The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site. (Phase 1) A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: N/A 49. Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion. N/A 50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes. The site will be used for low density single-family residential development and has 20% or less impervious cover. The site will be used for low density single-family residential development but has more than 20% impervious cover. \square The site will not be used for low density single-family residential development. 51. The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less

impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing

		Approval), may no longer apply and the property owner must notify the appropriate ional 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.	\boxtimes	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
_	oonsibility for Maintenance of Permanent BMPs and sures 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.

069274404 - THE SHOPS AT CRYSTAL FALLS CONTRIBUTING ZONE PLAN MODIFICATION

ROAD MAP





APPENDIX	DATE	04/18/2023
Λ	DESIGNED BY	GAL
Δ	DRAWN BY	GAL
/ \	CHECKED BY	MTD
	KHA PROJECT NO	069274404

ROAD MAP

THE SHOPS AT CRYSTAL FALLS LEANDER, TEXAS WILLIAMSON COUNTY





USGS QUADRANGLE MAP



SCALE 1:24 000

KILOMETERS

METERS

MILES

4000 5000

FEET

CONTOUR INTERVAL 10 FEET NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

1000

2000

QUADRANGLE LOCATION

ADJOINING QUADRANGLES

1 Liberty Hill 2 Leander NE 3 Georgetown 4 Nameless 5 Round Rock

7 8 6 Mansfield Dam 7 Jollyville 8 Pflugerville West

Produced by the United States Geological Survey

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before

Wetlands

0°36′ 11 MILS

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

PU

Grid Zone Designation

North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14R

entering private lands.

Hydrography..... Contours.... Boundaries....

Imagery.... Roads..... Names.....

Wetlands...



ROAD CLASSIFICATION

US Route

Secondary Hwy -

Interstate Route

Ramp

Local Connector _____

State Route

Local Road

4WD

PROJECT NARRATIVE

The Shops at Crystal Falls is located at SEC of Crystal Falls Parkway and Grand Lake Parkway, Leander, Texas. The Shops at Crystal Falls will be constructed on one lot with a total site area of 3.86 acres. The site is within the city limits of Leander and the Contributing Zone of the Edwards Aquifer. This site is located in the Bushy Creek Watershed. No portion of the property is within the limits of the 100-year floodplain as shown on FIRM Panel No. 48491C0455F and 48491C060F, dated December 20th, 2019.

A Contributing Zone Plan (EAPP ID No. 11060801) was approved on September 11, 2011. The plan approved the construction of driveways, a water quality pond, and a detention pond to serve a master planned mixed use development of 42.25 acres. The 42.25 acres consists of Cold Springs Section 2-6 and Lots 6 and 11, Block "R" and "S" of the Cold Springs Section Two Plat. The approved plan was designed to remove 21,286 lbs of TSS Load. The existing TSS Load for the site is 20,071 lbs.

The proposed modification to the previously approved Contributing Zone Plan is limited to the development of Lots 11 Block "S", part of the Cold Springs Section 2-6. The Shops at Crystal Falls will consist of 4 mixed use buildings, reserved for retail/restaurant use, parking, drives, utilities, and associated appurtenances. The impervious cover associated with the The Shops at Crystal Falls project will be 3.09 acres. This additional impervious cover will increase the total TSS Load for the 42.25-acre development to 20,385 lbs, which is below the 21,286 lbs limit. The Shops at Crystal Falls will continue to utilize the regional pond to satisfy water quality requirements.

FACTORS AFFECTING SURFACE WATER QUALITY

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

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

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

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill as defined by the Reportable Quantities Table 1 (page 3) of the TCEQ's Small-Business Handbook for Spill Response (RG-285, June 1997), the contractor is required to clean up the spill and notify the TCEQ as required in RG-285. During business hours report spills to the TCEQ's Austin Regional Office at (512) 339-2929, after business hours call 1-800-832-8224, the Environmental Response Hotline or (512) 463-7727, the TCEQ Spill Reporting Hotline, which is also answered 24 hours a day.

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

VOLUME AND CHARACTER OF STORMWATER

The subject tract is a portion of a greater drainage area designed to flow into a proposed regional filtration pond (11-PICP-005). Runoff will be captured by grated area inlets throughout the site and routed to the detention pond by a storm sewer system. The impervious areas will consist of buildings, parking surfaces, and sidewalks with the pervious areas consisting of landscape and natural areas. The first flush of runoff will contain small amounts of oil, gas, and suspended solids which will be captured and treated by the filtration pond.

Following the construction of The Shops at Crystal Falls, an additional 3.06 acres of impervious cover will drain to the sedimentation filtration pond. The "TSS Removal Calculations" spreadsheet has been updated and included in Attachment K to reflect this change.

SUITABILITY LETTER FROM AUTHORIZED AGENT

(NOT APPLICABLE)

ALTERNATIVE SECONDARY CONTAINMENT STRUCTURE DESIGN ROAD MAP

(NOT APPLICABLE)

AST CONTAINMENT STRUCTURE DRAWINGS

(NOT APPLICABLE)

20% OR LESS IMPERVIOUS COVER WAIVER

(NOT APPLICABLE)

BMPs FOR UPGRADIENT STORMWATER

(NOT APPLICABLE)

BMPs FOR ON-SITE STORMWATER

A Contributing Zone Plan (EAPP ID No. 11060801) was approved on September 11, 2011. The plan approved the construction of driveways, a water quality pond, and a detention pond to serve a master planned mixed use development of 42.25 acres. The 42.25 acres consists of Cold Springs Section 2-6 and Lots 6 and 11, Block "R" and "S" of the Cold Springs Section Two Plat. The approved plan was designed to remove 21,286 lbs of TSS Load. The existing TSS Load for the site is 20,071 lbs.

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BMPs FOR SURFACE STREAMS

There are no existing streams or sensitive features on site. All permanent BMPs have been designed to remove 80% of the increase in Total Suspended Solids as per current TCEQ requirements.

CONSTRUCTION PLANS

SITE DEVELOPMENT PLANS

FOR

THE SHOPS OF CRYSTAL FALLS

COLD SPRINGS SEC 2, BLOCK S, LOT 11

SUBMITTAL DATE: 02/06/2023

ZONING: LC-3-C

SITE AREA: 3.863 AC

FUTURE LAND USE: MULTI-USE CORRIDOR

TOTAL IMPERVIOUS COVER: 132,300 SF (78.6%)

S10207 - COLD SPRINGS SEC 2, BLOCK S, LOT 11, ACRES 3.863

REVISION#	DESCRIPTION	APPROVAL

DEVELOPER:

Cedar Park, TX 78613

3109 Kenai Drive, Suite 109

Velar Development

(512) 528-5322

Venkat Gudapuri

ARCHITECT:

Cedar Park, TX 78613

601 West New Hope Drive

Mat Design Studio

(469)-951-0614

Monika Arora

THE CITY OF LEANDER WILLIAMSON, TEXAS CITY PROJECT NO. 23-SD-0094

> **VICINITY MAP** SCALE: 1:2000 **ZIP CODE: 78641**

APPROVED BY:	
ROBIN M. GRIFFIN, AICP, EXECUTIVE DIRECTOR OF DEVELOPMENT SERVICES	DATE
EMILY TRUMAN, P.E., CFM, CITY ENGINEER	DATE
GINA ELLISON, P.E., PUBLIC WORKS DIRECTOR	DATE
MARK TUMMONS, CPRP, PARKS & RECREATION DIRECTOR	DATE
CHIEF JOSHUA DAVIS, FIRE MARSHAL	DATE

WILLIAMSON COUNTY, TEXAS

PROPERTY ID: R514531

THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, REGULATORY COMPLIANCE, AND ADEQUACY OF THESE PLANS AND/OR SPECIFICATIONS WHETHER OR NOT THE PLANS AND/OR SPECIFICATIONS WERE REVIEWED BY THE CITY ENGINEER(S).



MARCH 2023

SHEET NO.	SHEET TITLE					
1	COVER SHEET					
2	CITY OF LEANDER NOTES					
3	KIMLEY-HORN GENERAL NOTES					
4	PLAT					
5	EXISTING CONDITIONS PLAN					
6	EROSION CONTROL PLAN					
7	EROSION CONTROL DETAILS					
8	GRADING PLAN					
9	AS-BUILT WATER QUALITY POND					
10	EXISTING DRAINAGE AREA MAP					
11	DRAINAGE AREA MAP					
12	DRAINAGE CALCULATIONS					
13	SITE PLAN					
14	PAVING PLAN					
15	PAVING DETAILS					
16	STORM PLAN					
17	STORM PROFILES					
18	DETENTION POND PLAN					
19	DRAINAGE DETAILS					
20	WATER PLAN					
21	SANITARY SEWER PLAN					
22	UTILITY DETAILS (1 OF 2)					
23	UTILITY DETAILS (2 OF 2)					

SHEET INDEX

ENGINEER:

Kimley-Horn and Associates, Inc. 260 East Davis Street, Suite 100 McKinney, Texas 75069 Tel. No. (469) 301-2580

Contact: Michael T. Doggett, P.E.

PREPARED BY:

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

1 OF 23

UTILITY LOCATE REQUESTS locates@leandertx.gov

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

2. THE CONTRACTOR SHALL CONTACT THE TEXAS EXCAVATION SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES THAT ARE TO BE EXTENDED, TIED TO, CROSSED, OR ALTERED; OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.

3. CONTACT THE CITY OF LEANDER PUBLIC WORKS DEPARTMENT FOR EXISTING WATER AND WASTEWATER LOCATIONS 48 HOURS PRIOR TO CONSTRUCTION.

a. LOCATE REQUESTS MUST INCLUDE A COPY OF YOUR 811 TICKET. THE CITY OF LEANDER IS ALLOWED UP TO 48 HOURS TO COMPLY WITH YOUR REQUEST, EXCLUDING

WEEKENDS AND DESIGNATED CITY HOLIDAYS.

b. REFRESH ALL LOCATES BEFORE 14 DAYS – LOCATE REFRESH REQUESTS MUST INCLUDE A COPY OF YOUR 811 TICKET. SUBMIT ALL REQUESTS TO LOCATES@LEANDERTX.GOV.

TEXAS PIPELINE DAMAGE PREVENTION LAWS REQUIRE THAT A LOCATE REFRESH

REQUEST BE SUBMITTED BEFORE 14 DAYS, OR IF LOCATION MARKERS ARE NO LONGER VISIBLE.

c. REPORT PIPELINE DAMAGE IMMEDIATELY – IF YOU WITNESS OR EXPERIENCE PIPELINE

EXCAVATION DAMAGE, PLEASE CONTACT THE CITY OF LEANDER BY PHONE AT 512-259-2640.

4. ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE CITY BY

THE DESIGN ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION OF

THE REVISION.

5. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ANY PARTIAL OR COMPLETE ROADWAY CLOSURES. TRAFFIC CONTROL PLANS SHALL BE SITE SPECIFIC AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. LANE CLOSURES ON ARTERIALS AND ANY FULL ROAD CLOSURES REQUIRE MESSAGE BOARDS NOTIFYING THE PUBLIC ONE WEEK PRIOR TO THE CLOSURE.

6. NO WORK IS TO BE PERFORMED BETWEEN THE HOURS OF 9:00 P.M. AND 7:00 A.M. THE CITY INSPECTOR RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT INSPECTION FURTHER, THERE IS A NOISE ORDINANCE IN EFFECT FOR CONSTRUCTION ACTIVITY BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM. REQUESTS FOR EXCEPTIONS TO THE ORDINANCE MUST BE MADE TO LEANDER CITY COUNCIL. 7. CONTACT THE CITY INSPECTOR 4 DAYS PRIOR TO WORK TO SCHEDULE ANY INSPECTIONS ON WEEKENDS OR CITY HOLIDAYS.

8. NO STREET LIGHTS OR SIGNS OF ANY KIND ARE TO BE PLACED WITHIN ANY SIDEWALKS. 9. NO BLASTING IS ALLOWED.

10. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

11. THE CONTRACTOR SHALL GIVE THE CITY OF LEANDER 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. CONTACT ASSIGNED CITY INSPECTOR.

12. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND THE CITY OF LEANDER REPRESENTATIVES PRIOR TO INSTALLATION OF EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION MEASURES AND PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE CITY OF LEANDER PLANNING DEPARTMENT PLANNING COORDINATOR AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.

13. THE CONTRACTOR AND ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF LEANDER ACCURATE "RECORD DRAWINGS" FOLLOWING THE COMPLETION OF ALL CONSTRUCTION. THESE "RECORD DRAWINGS" SHALL MEET THE SATISFACTION OF THE ENGINEERING

DEPARTMENTS PRIOR TO FINAL ACCEPTANCE

14. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND TEMPORARY EASEMENTS.

PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT EASEMENTS. CLEANUP SHALL BE TO THE SATISFACTION OF THE ENGINEER.

SATISFACTION OF THE ENGINEER.

15. CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE

STATE OF TEXAS, AT NO ADDITIONAL COST TO OWNER.

16. THE CONTRACTOR SHALL PROTECT ALL EXISTING FENCES. IN THE EVENT THAT A FENCE MUST BE REMOVED, THE CONTRACTOR SHALL REPLACE SAID FENCE OR PORTION THEREOF WITH THE SAME TYPE OF FENCING TO A QUALITY OF EQUAL OR BETTER THAN THE ORIGINAL FENCE.

17. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 1033 LA POSADA DR. SUITE 375, AUSTIN, TEXAS 78752-3832.

18. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL CITY OF LEANDER DETAILS AND CITY OF AUSTIN STANDARD SPECIFICATIONS.

19. PROJECT SPECIFICATIONS TAKE PRECEDENCE OVER PLANS AND SPECIAL CONDITIONS

GOVERN OVER TECHNICAL SPECIFICATIONS.

20. HOT MIX ASPHALTIC CONCRETE PAVEMENT SHALL BE MINIMUM THICKNESS OF 2 INCHES WITH NO RECYCLED ASPHALT SHINGLES CONTENT.

21. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY RISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN HIMSELF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THE PROJECT. THIS INCLUDES GAS, WATER, WASTEWATER, ELECTRICAL, TELEPHONE, CABLE TV AND STREET DRAINAGE WORK.

WATER, WASTEWATER, ELECTRICAL, TELEPHONE, CABLE TV AND STREET DRAINAGE WORK.
ONCE THE CONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE
CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER WITHIN TWENTY-FOUR (24)
HOURS.

24. THE CONTRACTOR MUST OBTAIN A CONSTRUCTION WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.

WHO USE WATER.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL, SEDIMENT AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL, SEDIMENT OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER. ONLY SHOVELING AND SWEEPING WILL BE ALLOWED. CONTRACTOR WILL BE RESPONSIBLE FOR

DUST CONTROL FROM THE SITE.

26. THE CITY OF LEANDER SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.

27. AN ENGINEER'S CONCURRENCE LETTER AND RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT PRIOR TO THE ISSUANCE OF CERTIFICATE OF COMPLETION OR SUBDIVISION ACCEPTANCE. THE ENGINEER AND CONTRACTOR SHALL VERIFY THAT ALL FINAL REVISIONS AND CHANGES HAVE BEEN MADE TO THE DIGITAL COPY PRIOR TO CITY SUBMITTAL. RECORD CONSTRUCTION DRAWINGS, INCLUDING ROADWAY AND ALL UTILITIES SHALL BE PROVIDED TO THE CITY IN DIGITAL FORMAT AS AUTOCAD ".DWG" FILES, MICROSTATION ".DGN" FILES OR ESRI ".SHP" FILES ON CD ROM. LINE WEIGHTS, LINE TYPES AND TEXT SIZE SHALL BE SUCH THAT IF HALF-SIZE PRINTS (11"X17") WERE PRODUCED, THE PLANS WOULD STILL BE LEGIBLE. ALL REQUIRED DIGITAL FILES SHALL CONTAIN A MINIMUM

OF TWO CONTROL POINTS REFERENCED TO THE STATE PLANE GRID COORDINATE SYSTEM -

TEXAS CENTRAL ZONE (4203), IN US SURVEY FEET AND SHALL INCLUDE ROTATION

INFORMATION AND SCALE FACTOR REQUIRED TO REDUCE SURFACE COORDINATES TO GRID COORDINATES IN US SURVEY FEET

28. TREES IN EXISTING ROW SHOULD BE PROTECTED OR NOTED IN THE PLANS TO BE REMOVED.

CONSTRUCTION SEQUENCE NOTES:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE, EROSION CONTROLS AND TREE PROTECTION FENCING FOR EACH PHASE PRIOR TO CLEARING AND GRUBBING AND PER APPROVED EROSION AND SEDIMENTATION CONTROL/TREE PROTECTION PLAN.

2. THE CONTRACTOR SHALL ARRANGE AND COORDINATE ACCEPTABLE MEETING TIMES FOR AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE OWNER, PROJECT ENGINEER, RELEVANT CONTRACTORS, RELEVANT UTILITY REPRESENTATIVES, AND THE CITY ENGINEER. AT THIS MEETING, THE CITY SHALL VERIFY THAT ALL EROSION AND SEDIMENT CONTROLS AND TREE PROTECTION ARE IN PLACE, THAT CONSTRUCTION DRAWINGS AND THE SWPPP ARE LOCATED ON SITE, AND THAT THE SWPPP PERMITS HAVE BEEN ISSUED. THE CITY MAY THEN ISSUE THE SUBDIVISION IMPROVEMENT PERMIT.

3. BEGIN SITE CLEARING.

4. CLEAR AND GRUB AND STRIP TOPSOIL. STOCKPILE TOPSOIL FOR LATER USE.
5. ROUGH SUBGRADE SITE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS,

6. CONSTRUCT WET AND DRY UTILITIES.
7. FINAL SUBGRADE PREPARATION.

8. INSTALL BASE MATERIALS.

9. INSTALL CONCRETE (FOUNDATIONS, CURBS, FLATWORK).

10. CONSTRUCT BUILDINGS.11. INSTALL PAVEMENTS.

12. TOPSOIL, IRRIGATION, AND LANDSCAPING.
13. PROJECT ENGINEER INSPECTS JOB AND SUBMITS THE ENGINEER'S CONCURRENCE LETTER.
14. CITY VISITS SITE AND ISSUES CERTIFICATE OF ACCEPTANCE ONLY IF ALL CONSTRUCTION IS IN SUBSTANTIAL CONFORMANCE TO THE PLANS.

15. SITE CLEANUP AND REMOVAL OF TEMPORARY BMP'S.
16. FOLLOWING THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE ANY SEDIMENT BUILDUP IN THE WET POND FROM CONSTRUCTION ACTIVITIES.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTIVE FENCING PRIOR TO ANY WORK (CLEARING, GRUBBING OR EXCAVATION). CONTACT STORMWATER INSPECTOR FOR ON SITE INSPECTION PRIOR TO BEGINNING CONSTRUCTION.

2. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

3. THE TEMPORARY SPOILS DISPOSAL SITE IS TO BE SHOWN IN THE EROSION CONTROL MAP.

4. ANY ON-SITE SPOILS DISPOSAL SHALL BE REMOVED PRIOR TO ACCEPTANCE UNLESS SPECIFICALLY SHOWN ON THE PLANS. THE DEPTH OF SPOIL SHALL NOT EXCEED 10 FEET IN ANY

5. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 6 INCHES OF TOPSOIL AND COMPOST BLEND. TOPSOIL ON SINGLE FAMILY LOTS MAY BE INSTALLED WITH HOME CONSTRUCTION. THE TOPSOIL AND COMPOST BLEND SHALL

CONSIST OF 75% TOPSOIL AND 25% COMPOST.

6. SEEDING FOR REESTABLISHING VEGETATION SHALL COMPLY WITH THE AUSTIN GROW GREEN GUIDE OR WILLIAMSON COUNTY'S PROTOCOL FOR SUSTAINABLE ROADSIDES (SPEC 164--WC001 SEEDING FOR EROSION CONTROL). RESEEDING VARIETIES OF BERMUDA SHALL NOT BE USED.

7. STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED AT ALL POINTS WHERE CONSTRUCTION TRAFFIC IS EXITING THE PROJECT ONTO EXISTING PAVEMENT. LINEAR CONSTRUCTION PROJECTS MAY REQUIRE SPECIAL CONSIDERATION. ROADWAYS SHALL REMAIN CLEAR OF SILT AND MUD.

8. TEMPORARY STOP SIGNS SHOULD BE INSTALLED AT ALL CONSTRUCTION ENTRANCES WHERE A STOP CONDITION DOES NOT ALREADY EXIST.

9. IN THE EVENT OF INCLEMENT WEATHER THAT MAY RESULT IN A FLOODING SITUATION, THE CONTRACTOR SHALL REMOVE INLET PROTECTION MEASURES UNTIL SUCH TIME AS THE

WATER AND WASTEWATER NOTES:

WEATHER EVENT HAS PASSED.

1. PRESSURE TAPS SHALL BE IN ACCORDANCE WITH CITY OF LEANDER STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, ETC. AND SHALL FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. A CITY OF LEANDER INSPECTOR MUST BE PRESENT WHEN THE CONTRACTOR MAKES A TAP, AND/OR ASSOCIATED TESTS. A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED UNLESS MADE BY THE USE OF AN APPROVED FULL-CIRCLE GASKETED TAPPING SLEEVE. CONCRETE BLOCKING SHALL BE PLACED BEHIND AND UNDER ALL TAP SLEEVES A MINIMUM OF 24 HOURS PRIOR TO THE BRANCH BEING PLACED INTO SERVICE. BLOCKING SHALL BE INSPECTED PRIOR TO BACKFILL.

2. FIRE HYDRANTS ON MAINS UNDER CONSTRUCTION SHALL BE SECURELY WRAPPED WITH A BLACK POLY WRAP BAG AND TAPED INTO PLACE. THE POLY WRAP SHALL BE REMOVED WHEN THE MAINS ARE ACCEPTED AND PLACED INTO SERVICE.

3. CURVILINEAR WASTEWATER DESIGN LAYOUT IS NOT PERMITTED.

4. THRUST BLOCKING OR RESTRAINTS SHALL BE IN ACCORDANCE WITH THE CITY OF LEANDER STANDARD SPECIFICATIONS AND REQUIRED AT ALL FITTINGS PER DETAIL OR MANUFACTURER'S RECOMMENDATION. ALL FITTINGS SHALL HAVE BOTH THRUST BLOCKING AND RESTRAINTS.

5. MANDREL TESTING WILL BE REQUIRED ON ALL WASTEWATER PIPE. PER TCEQ, THIS TEST MUST BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.

6. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD

61 AND MUST BE CERTIFIED BY AND ORGANIZATION ACCREDITED BY ANSI

61 AND MUST BE CERTIFIED BY AND ORGANIZATION ACCREDITED BY ANSI
7. DURING PERIODS OF EXTENDED DRY WEATHER, TRENCH BACKFILL MUST BE COMPACTED BY
FLOODING THE TRENCHES AS DIRECTED BY THE CITY ENGINEER.
8. ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY

STAMPED AS FOLLOWS:
WATER SERVICE "W" ON TOP OF CURB
WASTEWATER SERVICE "S" ON TOP OF CURB
VALVE "V" ON TOP OF CURB

9. TOOLS FOR STAMPING THE CURBS SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF STAMPING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF STAMPING SHALL BE SPECIFIED BY THE ENGINEER AND ACCEPTED BY THE CITY OF LEANDER

10. ALL PLASTIC PIPES FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 200 PSI.

11. NO PIPE OR FITTING WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE

OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.

12. TYPICAL DEPTH OF COVER FOR ALL WASTEWATER LINES SHALL BE 48" MINIMUM, WATER LINES SHALL BE 36" MINIMUM UNDER BOTH PAVEMENT AND NATURAL GROUND. STORM SEWER

SHALL BE 24" MINIMUM UNDER NATURAL GROUND
13. THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY AWWA FORMULAS.

14. ALL WATER MAINS, DISTRIBUTION LINES AND SERVICE LINES SHALL BE INSTALLED IN ENCASEMENT PIPE UNDERNEATH EXISTING STREETS AND OTHER PAVED SURFACES UNLESS APPROVED WITH PLANS.

15. ALL MECHANICAL RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
16. ALL DEAD-END WATER MAINS SHALL HAVE THRUST RESTRAINTS INSTALLED ON THE LAST THREE PIPE-LENGTHS (STANDARD 20' LAYING LENGTH), AT MINIMUM, AND THRUST BLOCKS

INSTALLED ON THE PLUG. ADDITIONAL THRUST RESTRAINTS MAY BE REQUIRED BASED UPON

THE MANUFACTURER'S RECOMMENDATIONS AND/OR CALCULATIONS BY THE ENGINEER OF RECORD.

17. WHERE WATER LINES CROSS WASTEWATER LINES AND THERE IS LESS THAN 9 FEET CLEARANCE BETWEEN LINES, THE WASTEWATER LINE SHALL BE PLACED SO THAT THE WASTEWATER PIPE SECTION IS CENTERED ON THE WATER LINE AND CONSTRUCTED IN ACCORDANCE WITH TCEQ

CHAPTERS 217.53(b) AND 290.44(e).

18. PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C900-16 MIN. 235 PSI PRESSURE RATING). WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200PSI, SDR-(9)). DUCTILE IRON PIPE (AWWA C115/C151, MIN. PRESSURE CLASS 250) MAY BE USED FOR WATER MAINS WITH THE EXPRESS APPROVAL OF CITY OF LEANDER ENGINEERING.

19. PIPE FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C900-16), GREEN AND MARKED FOR SEWER. PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC (ASTM D2241, D3034 MAX. SDR-26 OR PS115 F679) OR FIBERGLASS WITH PIPE STIFFNESS OF 72 PSI PER COA SPL WW-509.

20. ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AWWA C115/C151 PRESSURE CLASS

21. INTERIOR SURFACES OF ALL DUCTILE IRON POTABLE OR RECLAIMED WATER PIPE SHALL BE CEMENT-MORTAR LINED AND SEAL COATED AS REQUIRED BY AWWA C104.

22. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE.
23. THE CONTRACTOR SHALL CONTACT THE ENGINEERING DEPARTMENT INSPECTOR AT 528-2700 AT LEAST 48 HOURS PRIOR TO CONNECTING TO THE EXISTING WATER LINES.
24. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. TAPPING OF FIBERGLASS MANHOLES SHALL NOT BE ALLOWED.

25. EXISTING MANHOLES MODIFIED BY CONSTRUCTION ACTIVITY SHALL BE TESTED FOR LEAKAGE BY VACUUM. ANY EXISTING MANHOLE WHICH FAILS TO PASS THE VACUUM TEST SHALL BE CLOSELY EXAMINED BY THE INSPECTOR AND THE CONTRACTOR TO DETERMINE IF THE MANHOLE CAN BE REPAIRED. THEREAFTER, THE CONTRACTOR SHALL EITHER REPAIR OR REMOVE AND REPLACE THE MANHOLE AS DIRECTED.

26. PIPE CONNECTIONS TO EXISTING MANHOLES AND JUNCTION BOXES SHALL BE CONSTRUCTED IN

ACCORDANCE WITH CITY OF AUSTIN SPECIFICATION 506.5.F.
27. LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE COORDINATED WITH THE PUBLIC WORKS DEPARTMENT.

28. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM STERILIZATION OF ALL CONSTRUCTED POTABLE WATER LINES AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING TEST GAUGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTING MATERIAL), AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY CITY OF LEANDER PERSONNEL. WATER SAMPLES WILL BE COLLECTED BY THE CITY OF LEANDER TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PPM. WHERE MEANS OF FLUSHING IS NECESSARY, THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FLUSHING DEVICES AND REMOVE SAID DEVICES PRIOR TO FINAL ACCEPTANCE BY THE CITY OF LEANDER.

29. SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL. AT THE CONTRACTORS' REQUEST, AND IN HIS PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF LEANDER NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY.

30. TESTING SHALL BE PERFORMED FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED. THE OWNER'S CONTRACTOR SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS. THE CONTRACTOR SHALL NOTIFY THE CITY OF LEANDER ENGINEERING DEPARTMENT NO LESS THAN 48 HOURS PRIOR TO PERFORMING STERILIZATION, QUALITY TESTS, OR PRESSURE TESTS. A CITY OF LEANDER INSPECTOR SHALL BE PRESENT FOR ALL TESTS AND SHALL BE PAID FOR BY THE OWNER/CONTRACTOR. THESE SERVICES ARE PAID FOR AT THE TIME OF CONSTRUCTION PLAN SUBMITTAL.

31. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVE UNLESS AUTHORIZED BY THE CITY OF LEANDER.

32. ALL VALVE BOXES AND COVERS SHALL BE CAST IRON.
33. ALL WATER VALVE COVERS ARE TO BE PAINTED BLUE.
34. ALL WATER METER BOXES SHALL BE:

a. SINGLE, 1" METER AND BELOW DFW37F-12-1CA, OR EQUAL b. DUAL, 1" METERS AND BELOW DFW39F-12-1CA, OR EQUAL c. 1.5" SINGLE METER DFW65C-14-1CA, OR EQUAL

d. 2" SINGLE METER DFW1730F-12-1CA, OR EQUAL
35. SAND, AS DESCRIBED IN AUSTIN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS
BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE
BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR
MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND
MEETING THE FOLLOWING GRADATION SPECIFICATION:

SIEVE SIZE PERCENT RETAINED BY WEIGHT 1/2" 0

3/8" 0-2 #4 40-85

#10 95-100
36. THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 AM AND 6 AM

37. ALL WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS, 30 TAC CHAPTER 213 AND 30 TAC CHAPTER 217, AS APPLICABLE. WHENEVER TCEQ AND CITY OF LEANDER SPECIFICATION CONFLICT, THE MORE STRINGENT SHALL APPLY.

38. MANHOLES SHALL BE COATED PER CITY OF AUSTIN SPL WW-511 (RAVEN 405 OR SPRAYWALL).
39. DENSITY TESTING FOR TRENCH BACKFILL LOCATED WITHIN THE LIMITS OF THE PAVED AREA IS TO BE DONE IN 12" LIFTS EVERY 500' AND AT LEAST ONCE PER LINE SEGMENT
40. ALL GRAVITY WASTEWATER MAINS TO BE TESTED BY CAMERA AND PAID FOR BY THE CONTRACTOR. CAMERA TESTING FOR WASTEWATER LINES IN ROADWAY SHALL OCCUR BEFORE PAVING. CONTRACTOR SHALL PROVIDE THE CITY WITH A DVD COPY OF THE FULL CAMERA

41. RECLAIMED AND RECYCLED WATER LINE SHALL BE CONSTRUCTED OF "PURPLE PIPE." ALL RECLAIMED AND RECYCLED WATER VALVE COVERS SHALL BE SQUARE AND PAINTED PURPLE.

STREET AND DRAINAGE NOTES:

1. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CITY OF LEANDER HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, OR ANY OTHER ACCESSIBILITY LEGISLATION, AND DOES NOT WARRANTY OR APPROVE THESE PLANS FOR ANY ACCESSIBILITY STANDARDS.

2. PRIOR TO ACCEPTANCE THE ENGINEER SHALL SUBMIT DOCUMENTATION THAT THE IMPROVEMENTS WERE INSPECTED BY TDLR OR A REGISTERED ACCESSIBLITY SPECIALIST (RAS) AND ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE TABA.

3. CONTRACTOR SHALL PROVIDE QUALITY TESTING FOR ALL INFRASTRUCTURES TO BE ACCEPTED AND MAINTAINED BY THE CITY OF LEANDER AFTER COMPLETION. THE CONTRACTOR SHALL NOTIFY THE CITY OF LEANDER ENGINEERING DEPARTMENT AT 528-2700 NO LESS THAN 48 HOURS PRIOR TO ANY TESTING.

4. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 6" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 6" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE 5. A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED BETWEEN THE CURB AND RIGHT-OF-WAY AND IN ALL DRAINAGE CHANNELS EXCEPT CHANNELS CUT IN STABLE ROCK.
6. DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT, INCLUDING GAS, ELECTRIC

TELEPHONE, CABLE TV, ETC., SHALL BE A MINIMUM OF 36" BELOW SUBGRADE.

7. STREET RIGHT-OF-WAY SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OF-WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE CITY OF LEANDER PUBLIC WORKS

DEPARTMENT.

8. BARRICADES BUILT TO THE CITY OF LEANDER STANDARDS SHALL BE ERECTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.

9. ALL REINFORCED CONCRETE PIPE SHALL BE MINIMUM CLASS III OF TONGUE AND GROOVE OR O-RING JOINT DESIGN.

10. THE CONTRACTOR IS TO NOTIFY THE ENGINEERING INSPECTOR 48 HOURS PRIOR TO THE FOLLOWING TESTING: PROOF ROLLING SUB-GRADE AND EVERY LIFT OF ROADWAY EMBANKMENT, IN-PLACE DENSITY TESTING OF EVERY BASE COURSE, AND ASPHALT CORES. ALL OF THIS TESTING MUST BE WITNESSED BY A CITY OF LEANDER REPRESENTATIVE.

11. THE CONTRACTOR MUST PROVIDE A PNEUMATIC TRUCK PER TXDOT SPEC FOR PROOF ROLLING.
12. AT INTERSECTIONS WHICH HAVE VALLEY DRAINAGE, THE CROWNS OF THE INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40 FEET FROM INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.

13. AT THE INTERSECTION OF TWO 44' STREETS OR LARGER, THE CROWNS OF THE INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40 FEET FROM INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.

14. A CURB LAYDOWN IS REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS THE CURB.
15. ALL STRIPING, WITH THE EXCEPTION OF STOP BARS, CROSS WALKS, WORDS AND ARROWS, IS TO

BE TYPE II (WATER BASED). STOP BARS, CROSS WALKS, WORDS AND ARROWS REQUIRE TYPE I THERMOPLASTIC.

16. MANHOLE FRAMES, COVERS, VALVES, CLEAN-OUTS, ETC. SHALL BE RAISED TO GRADE PRIOR TO FINAL PAVEMENT CONSTRUCTION.

17. CONTRACTOR SHALL NOTIFY THE LEANDER ENGINEERING DEPARTMENT AT 528-2700 AT LEAST 48 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET ROW. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S ROW MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.

18. A STOP BAR SHALL BE PLACED AT ALL STOP SIGN LOCATIONS.

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

20. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISIONS OF THE

CONSTRUCTION PLANS.

21. GEOTECHNICAL INVESTIGATION INFORMATION AND PAVEMENT RECOMMENDATIONS WERE PROVIDED BY TERRADYNE. PAVEMENT RECOMMENDATIONS SHOWN ON SHEET 14.

TRENCH SAFETY NOTES:

1. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT ARE DESCRIBED IN ITEM 509S "TRENCH SAFETY SYSTEMS" OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATION SAFETY AND HEALTH ADMINISTRATION REGULATIONS. GRADING NOTES

1. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF

WATER.

2. THE CONTRACTOR SHALL CONSTRUCT EARTHEN EMBANKMENTS WITH SLOPES NO STEEPER THAN 3:1 AND COMPACT SOIL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS.

3. AREAS OF SOIL DISTURBANCE ARE LIMITED TO GRADING AND IMPROVEMENTS SHOWN. ALL OTHER AREAS WILL NOT BE DISTURBED.

BENCHMARK NOTES:

1. [PROVIDE LOCATION DESCRIPTION]

THE CITY OF LEANDER STANDARD
CONSTRUCTION NOTES SHALL APPLY
AND TAKE PRECEDENCE. FOR
INSTANCES WHERE THEY CONFLICT
WITH KIMLEY-HORN GENERAL NOTES OR
APPLICABLE TCEQ REQUIREMENTS,
THEN THE MORE RESTRICTIVE SHALL
APPLY.

No. REVISIONS

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
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PHONE: 469-301-2580 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928



DATE
02/06/2023
SCALE AS SHOWN
DESIGNED BY MTD
DRAWN BY GAL

THE SHOPS OF RYSTAL FALLS



SITY OF LEANDER NOTE

SHEET NUMBER

2 OF 23

SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED 2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY. 3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE

CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS. 4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS. 5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.

6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER 7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND

SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW. 8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING. 9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING

CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL 10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM. 11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH

12.IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.

13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION. 14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES. 15 THE LOCATIONS FLEVATIONS DEPTH AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.

16 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS

17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED. 8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND

OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT. 19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

20.BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM. 21.CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER

LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES 22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.

23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS FROSION CONTROL PLANS SWPPP AND INSPECTION REPORTS 24.ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR

SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE

25.ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES. 26.CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.

27. CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES. 28.ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC....) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR. 29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. REFERENCE THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.

30.REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS. 31. THE PROPOSED BUILDING FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED TO KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC.....) AND TO CONFIRM ITS FINAL POSITION ON THE SITE BASED ON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAT. ANY

DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY. 32.ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING

SUBSEQUENT ADDENDA 33.CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.

34.ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING 35.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS 36 DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING. THE CONTRACTOR SHALL ADHERE TO

GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING. 37.ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR.

38. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES. UTILITIES. MANHOLES. POLES. GUY WIRES. VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER. 39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC

LANDSCAPING, AND IRRIGATION SYSTEMS, ETC.... TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER. 40.ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT. 41.THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING CONSTRUCTION

IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES,

42.CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES. 43.THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

44.THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER. 45.SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR 46.THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY

PROCEDURES AND PROGRAMS 47.SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS. 48.CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER,

STORAGE, AND STAGING OPERATIONS AND LOCATIONS. 49.LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES. 50.ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM 51.TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED

GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.

52.CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING. 53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS.

54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION. AND THEN THE IMPLEMENTATION OF THE PLAN.

55.CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM 56.THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS

AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE. 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE FLIMINATION SYSTEM TXR 150000"

3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START 4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT

5. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE. 6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH BMP

EMPLOYED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE. 7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAILS.

8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED. 9. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING. 10. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE FROSION CONTROL DEVICES DO NOT

EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENTATION FROM WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL

11 OFF-SITE SOIL BORROW SPOIL AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO

INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN. 12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR

13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPS, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE TO VERIFY THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY 14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE

WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS 15. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND

16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE OFF-SITE ROADWAYS. 17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA

STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP BMP. 18. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES, PER TCEQ AND CITY STANDARDS. IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL ARRANGE FOR AN APPROPRIATE DESIGN TO BE PROVIDED.

19 ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR 20. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE. 21.TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE. 22.CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES.

23.UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT. OR A UNIFORM PERENNIAL VEGETATIVE COVER. 24.AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN

STORM WATER DISCHARGE AUTHORIZATION

ACCORDANCE WITH APPLICABLE REGULATIONS.

REMOVED IMMEDIATELY

ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.

CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000

3. THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MS4 (TYPICALLY THE CITY)

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

CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP. 6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION. 7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL

UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURES, A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE

OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO

THE OPERATOR OF ANY MS4 RECEIVING DISCHARGE FROM THE SITE.

. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE 2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN. WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE

RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES. 3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF

IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR. 4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN-

 a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER. . ASBESTOS BUILDING INSPECTION REPORT(S) PROVIDED BY THE OWNER,

c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER. d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE.

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

6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS. AND COMPLY. . KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED.

8. SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT FOUNDATIONS OR WALLS. THAT ARE ALSO TO BE REMOVED.

1. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY

3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB 4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE.

5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY. . ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN 7 CONTOURS AND SPOT GRADES SHOWN ARE FLEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING

OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE, THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE 3. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER.

9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING 10. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE 11. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START

OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND 12.BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.

13. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH THE RECEIVING LANDOWNER'S APPROVAL TO DO SO. 14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL 15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING

DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES. 16.NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED. 17. TEMPORARY CULVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY RUN-OFF.

18.REFER TO DIMENSION CONTROL PLAN, AND PLAT FOR HORIZONTAL DIMENSIONS. 19. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO

20.CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING. 21.ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY

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

22.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT THE WORK

FLATWORK ADJACENT TO THE BUILDING. IF NONE IS CURRENTLY EXISTING. 25.CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION 26.THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST, CONTRACTOR SHALL CONTROL DUST BY

SPRINKLING WATER. OR BY OTHER MEANS APPROVED BY THE CITY. AT NO ADDITIONAL COST TO THE OWNER. 27.CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE PROPOSED GRADE, INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL REFER TO THE GENERAL NOTES "OVERALL" SECTION THESE PLANS FOR ADDITIONAL INFORMATION 28.EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND

29.CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES, AND

IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER.

PROPOSED SITE GRADING, AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH THE TREE PRESERVATION PLAN BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING THE WORK. 30.TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY STANDARD TREE PROTECTION DETAILS AND THE

APPROVED TREE PRESERVATION PLANS BY THE LANDSCAPE ARCHITECT 31. CONTRACTOR SHALL REFER TO THE LANDSCAPING AND TREE PRESERVATIONS PLANS FOR ALL INFORMATION AND DETAILS REGARDING EXISTING TREES TO BE REMOVED AND PRESERVED.

32.NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN ISSUED BY THE CITY, OR CITY HAS OTHERWISE CONFIRMED IN WRITING THAT ONE IS NOT NEEDED FOR THE TREE(S) 33.NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE

EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE AND GRADING IMPACT TO THEM HELD TO A MINIMUM. 34 AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED 35. CONTRACTOR FIELD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE CIVIL ENGINEER IS OBTAINED.

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

2. RETAINING WALL TYPE OR SYSTEM SHALL BE SELECTED BY THE OWNER. DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE 7. RETAINING WALL DESIGN SHALL BE PROVIDED BY OTHERS AND SHALL FIT IN THE WALL ZONE OR LOCATION SHOWN ON THESE PLANS. STRUCTURAL DESIGN AND PERMITTING OF RETAINING WALLS, RAILINGS, AND OTHER WALL SAFETY DEVICES SHALL BE PERFORMED BY A LICENSED ENGINEER AND ARE NOT PART OF THIS PLAN SET. 4. RETAINING WALL DESIGN SHALL MEET THE INTENT OF THE GRADING PLAN AND SHALL ACCOUNT FOR ANY INFLUENCE ON ADJACENT BUILDING FOUNDATIONS, UTILITIES, PROPERTY LINES AND OTHER CONSTRUCTABILITY NOTES.

RETAINING WALL ENGINEER SHALL CONSULT THESE PLANS AND THE GEOTECHNICAL REPORT FOR POTENTIAL CONFLICTS.

1. ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS. THE CITY STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION/DETAIL SHALL BE FOLLOWED 2. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST

EDITION), INCLUDING ALL ADDENDA. 3. ALL FIRÉLANE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARDS AND DETAILS. IF THESE ARE DIFFERENT THAN THOSE IN THE GEOTECHNICAL REPORT. THEN THE MORE RESTRICTIVE SHALL BE FOLLOWED 4. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS 5. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR.

TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR PAVING AND PAVING SUBGRADE TESTING 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE PAVING AND PAVING SUBGRADE, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO

FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING. 8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAIL AND SPECIFICATIONS 9. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA AND TAS STANDARDS AND

SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES

10. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TAS STANDARDS, LATEST

11. ANY COMPONENTS OF THE PROJECT SUBJECT TO RESIDENTIAL USE SHALL ALSO CONFORM TO THE FAIR HOUSING ACT. AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT. 12 CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH FLUSH CONNECTION. 13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND

PAVEMENT MARKINGS SHALL ADHERE TO CITY AND OWNER STANDARDS. 14. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT. 15. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT. 16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A-615, GRADE 60, AND SHALL BE SUPPORTED BY BAR CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE CITY AND GEOTECHNICAL STANDARDS.

18. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET. 19. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO BEGINNING ANY OF THE PAVING WORK. 20.ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT 21.FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY STANDARDS

22.UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY. ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED. 23.CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED. 24.BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS. ACCESSIBLE PARKING SPACES. ACCESS AISLES. AND ACCESSIBLE

ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION 25.CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE COMPLIANCE ISSUES.

. ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND

SPECIFICATIONS. 2. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER

3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. 4. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.

5. FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN NO AND FIFLD CONDITIONS PRIOR TO THEIR INSTALLATION 6. ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS. 7. ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE.

CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS. 8. ALL PVC TO RCP CONNECTIONS AND ALL STORM PIPE CONNECTIONS ENTERING STRUCTURES OR OTHER STORM PIPES SHALL HAVE A CONCRETE COLLAR AND BE GROUTED TO ASSURE THE CONNECTION IS WATERTIGHT. 9. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES 18-INCHES AND GREATER SHALL BE CLASS III RCP OR OTHER APPROVED MATERIAL

10. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED. 11.IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO THE OWNER, ENGINEER AND CITY ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. ANY PROPOSED HDPE AND PVC SHALL BE WATERTIGHT.

12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM SEWER LINES. 13.EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS. 14. ALL WYE CONNECTIONS AND PIPE BENDS ARE TO BE PREFABRICATED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS. 15.USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET 16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN. PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS. TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

17. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

ALL UTILITY SERVICES ENTERING THE BUILDING.

17. ALL JOINTS SHALL EXTEND THROUGH THE CURB

ANY PONDS THAT ARE INTENDED TO HOLD WATER INDEFINITELY SHALL BE CONSTRUCTED WATERTIGHT. 2. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR POND LINER SPECIFICATIONS

3. A GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE ALL POND LINER MATERIAL, PLACEMENT PROCEDURES, AND PROVIDE TESTING TO ENSURE THE POND LINER MATERIAL PLACED IS WATERTIGHT. 4. STORM SEWER PIPES AND HEADWALLS THAT CONNECT TO A POND INTENDED TO HOLD WATER INDEFINITELY SHALL BE INSTALLED WITH WATERTIGHT JOINTS TO AT LEAST 1-FOOT ABOVE THE NORMAL POOL WATER SURFACE ELEVATION. 5. ANY GRAVEL OR OTHER PERVIOUS EMBEDMENT AROUND PIPES OR OUTFALL STRUCTURES NEAR THE POND SHALL BE ELIMINATED FOR TCEQ

AT LEAST 20-FEET FROM THE POND SO NO ROUTE FOR WATER TO LEAK THROUGH THE EMBEDMENT MATERIAL IS PROVIDED. BACKFILL IN THESE AREAS SHALL BE OF IMPERVIOUS MATERIAL. 6. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE WATER LEVEL FOLLOWING COMPLETION AND FILLING OF THE POND SHALL BE MONITORED BY THE CONTRACTOR FOR AT LEAST 60 DAYS TO OBSERVE WATER INFLOW, OUTFLOW, AND CALCULATE

EVAPORATION TO VERIFY THAT THE POND IS WATERTIGHT. 7. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE POND WATER LEVEL SHALL ALSO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION SO THAT IT REMAINS FULL TO ITS DESIGN WATER LEVEL, AND IS NOT LOWERED, AS THIS MAY DRY-OUT THE POND LINER AND RISK ITS WATERTIGHT PROPERTIES.

WATER AND WASTEWATER . ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND

2. CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AND WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY WATER OR WASTEWATER CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. 3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF

4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE 5. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE WATER AND WASTEWATER IMPROVEMENTS. 6. ALL PUBLIC WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.

PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS 8. FIRE SPRINKLER LINES SHALL BE DESIGNED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR, AND COMPLY TO THE APPLICABLE CODES AND INSPECTIONS REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRINKLER DESIGN. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES.

7. ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE

9. EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS. 10. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, TCEQ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS. 11. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER AND WASTEWATER LINES

PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT. 14. CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO SURROUNDING PROPERTIES 15. CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION (IF NECESSARY, BY USE OF TEMPORARY METHODS APPROVED BY THE CITY AND OWNER). THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED

16. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTRACTOR

SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND

13. CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AMOUNT OF

SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. 17. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED 18. THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED

19. ALL FIRE HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR THRUST BLOCKED TO CITY STANDARDS. 20.CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE

JOINTS ARE GREATER THAN 9-FEET FROM THE CROSSING 21.ALL CROSSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FEET FROM WATER, WASTEWATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 217.53.

22.ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 290.44. 23.ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND TCEQ STANDARDS AND SPECIFICATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING:

a. ALL WATERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE BEING PLACED INTO SERVICE. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. b. WASTEWATER LINES AND MANHOLES SHALL BE PRESSURE TESTED. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. AFTER COMPLETION OF THESE TESTS, A TELEVISION

INSPECTION SHALL BE PERFORMED AND PROVIDED TO THE CITY AND OWNER ON A DVD. 24. CONTRACTOR SHALL INSTALL DETECTABLE WIRING OR MARKING TAPE A MINIMUM OF 12" ABOVE WATER AND WASTEWATER LINES. MARKER DECALS SHALL BE LABELED "CAUTION - WATER LINE", OR "CAUTION - SEWER LINE". DETECTABLE WIRING AND MARKING TAPE

SHALL COMPLY WITH CITY STANDARDS. AND SHALL BE INCLUDED IN THE COST OF THE WATER AND WASTEWATER PIPE. 25.DUCTILE IRON PIPE SHALL BE PROTECTED FROM CORROSION BY A LOW-DENSITY POLYETHYLENE LINER WRAP THAT IS AT LEAST A SINGLE LAYER OF 8-MIL. ALL DUCTILE IRON JOINTS SHALL BE BONDED.

26.WATERLINES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER REQUIRED BY THE CITY. 27.CONTRACTOR SHALL PROVIDE CLEAN-OUTS FOR PRIVATE SANITARY SEWER LINES AT ALL CHANGES IN DIRECTION AND 100-FOOT INTERVALS, OR AS REQUIRED BY THE APPLICABLE PLUMBING CODE. CLEAN-OUTS REQUIRED IN PAVEMENT OR SIDEWALKS SHALL HAVE CAST IRON COVERS ELLISH WITH FINISHED GRADE

OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

28.CONTRACTOR SHALL PROVIDE BACKWATER VALVES FOR PLUMBING FIXTURES AS REQUIRED BY THE APPLICABLE PLUMBING CODE (E.C FLOOR ELEVATION OF FIXTURE UNIT IS BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER). CONTRACTOR SHALL REVIEW BOTH MEP AND CIVIL PLANS TO CONFIRM WHERE THESE ARE REQUIRED. 29. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCI

SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO

30.THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

ABBREVIATIONS AND DEFINITIONS:

ADA AMERICANS WITH DISABILITIES ACT AMERICAN WATER WORKS ASSOCIATION B-B BACK TO BACK BEGIN CURVE BACK OF CURB BCR BEGIN CURB RETURN BEST MANAGEMENT PRACTICE BOC BACK OF CURB BEGIN VERTICAL CURVE ELEVATION BEGIN VERTICAL CURVE STATION **BVCS** BOTTOM OF WALL BW CUBIC FEET PER SECOND CITY CITY, TOWN, OR OTHER APPLICABLE LOCAL GOVERNMENT JURISDICTION CENTERLINE CENTERLINE CONCRETE CUBIC YARD CY **DEMO** DEMOLITION DECOMPOSED GRANITE DETAIL EACH END CURVE

EXISTING GROUND ELEVATION ELECTRICAL / ELECTRICITY ELEV ELEVATION UNITES STATES ENVIRONMENTAL PROTECTION AGENCY

EASEMENT END VERTICAL CURVE ELEVATION **EVCS** END VERTICAL CURVE STATION **EXISTING**

END CURB RETURN

ECR

FACE TO FACE FINISHED GROUND FIRE HYDRANT FLOW LINE FOC FACE OF CURB FFFT HYDRAULIC GRADE LINE HGL

KIMLEY-HORN AND ASSOCIATES, INC KIMLEY-HORN AND ASSOCIATES, INC I ATFRAI LINEAR FEET

MAXIMUM MATCH EXISTING ELEVATION MANHOLE

NOTICE OF TERMINATION, REF. TCEQ GENERAL PERMIT NOT TO SCALE ON CENTER OFFSET

NOTICE OF INTENT, REF. TCEQ GENERAL PERMIT

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION POINT OF CURVATURE PORTLAND CEMENT CONCRETE / POINT OF COMPOUND CURVATURE PROPOSED GRADE LINE

POINT OF INFLECTION PROP PROPOSED POINT OF REVERSE CURVATURE POUNDS PER SQUARE INCH POINT OF TANGENCY

POLYVINYL CHLORIDE POINT OF VERTICAL INFLECTION PVMT PAVEMENT REINFORCED CONCRETE PIPE

ROW RIGHT OF WAY SQUARE FEET SANITARY SEWER SANITARY SEWER MANHOLE STATION

STANDARD SQUARE YARD ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS TOP OF CURB TEXAS COMMISSION OF ENVIRONMENTAL QUALITY

TEMPORARY TXDOT TEXAS DEPARTMENT OF TRANSPORTATION TXMUTCD TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES TOP OF WALL TW

TYPICAL VERTICAL CURVE WTR WATER WASTEWATER

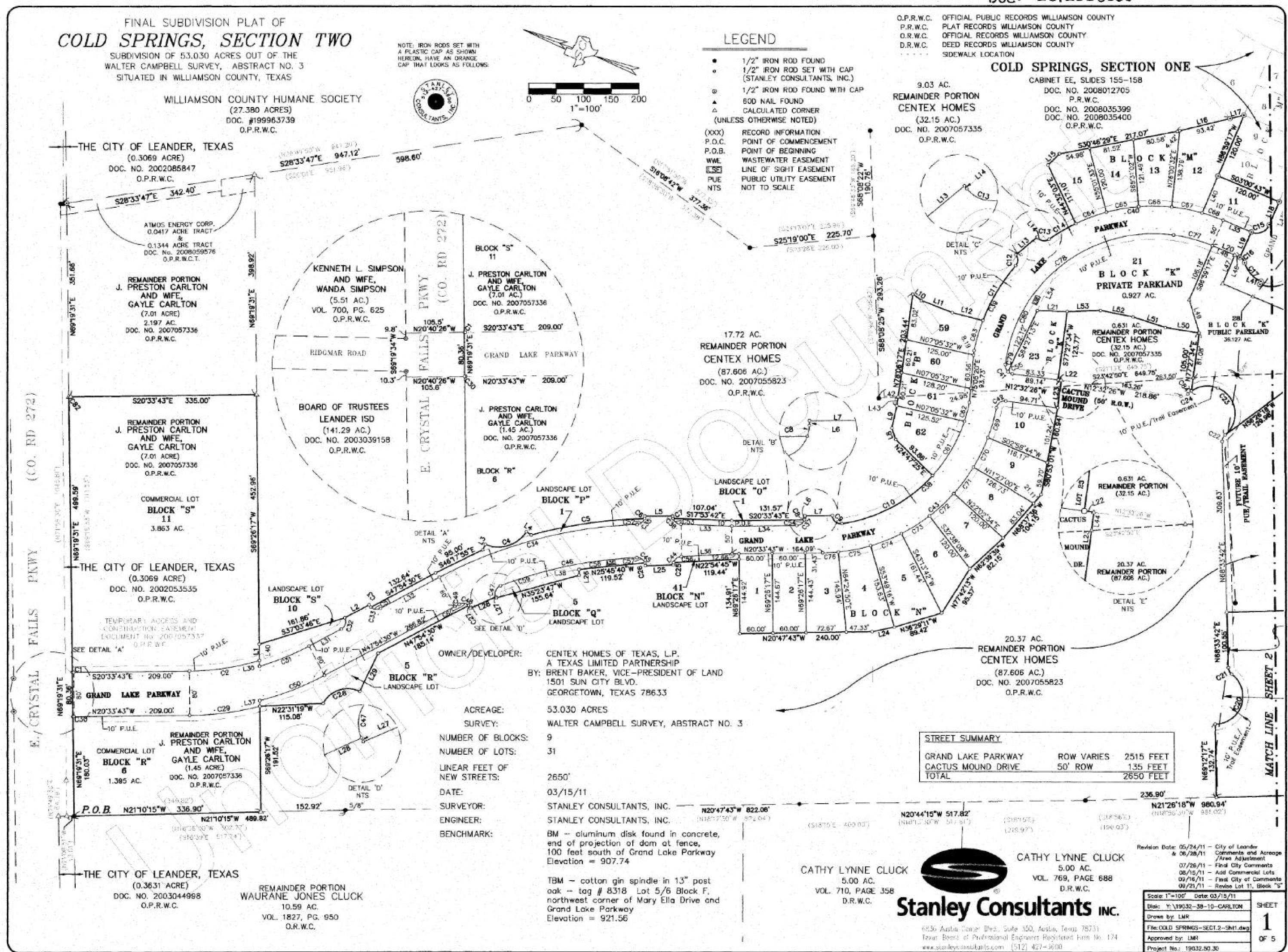
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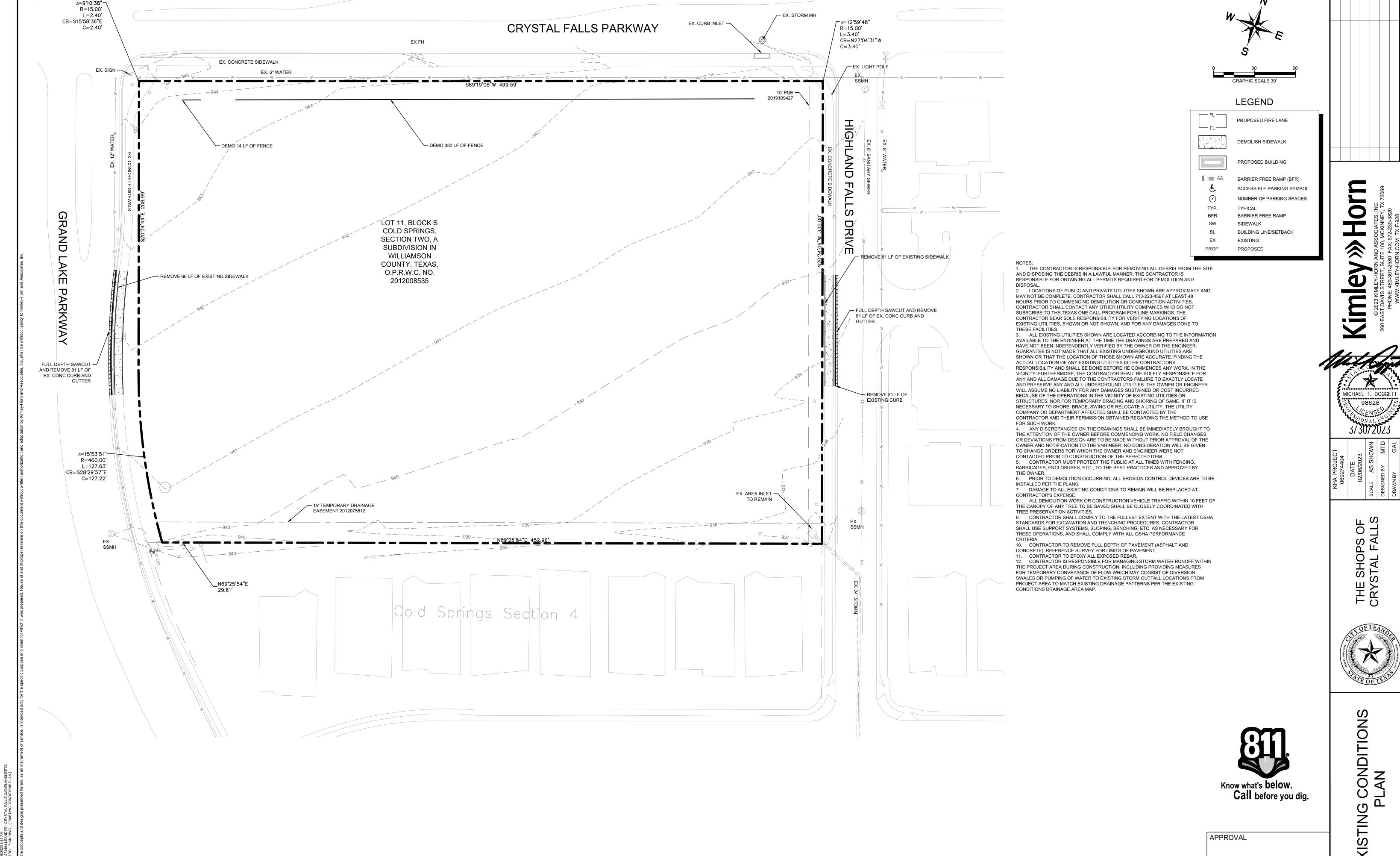
GEOTECHNICAL ENGINEERING REPORT (FIRM) TERRADYNE A231006 02/13/2023 INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER

THESE PLAN AND GENERAL NOTES REFER TO:

SHEET NUMBER

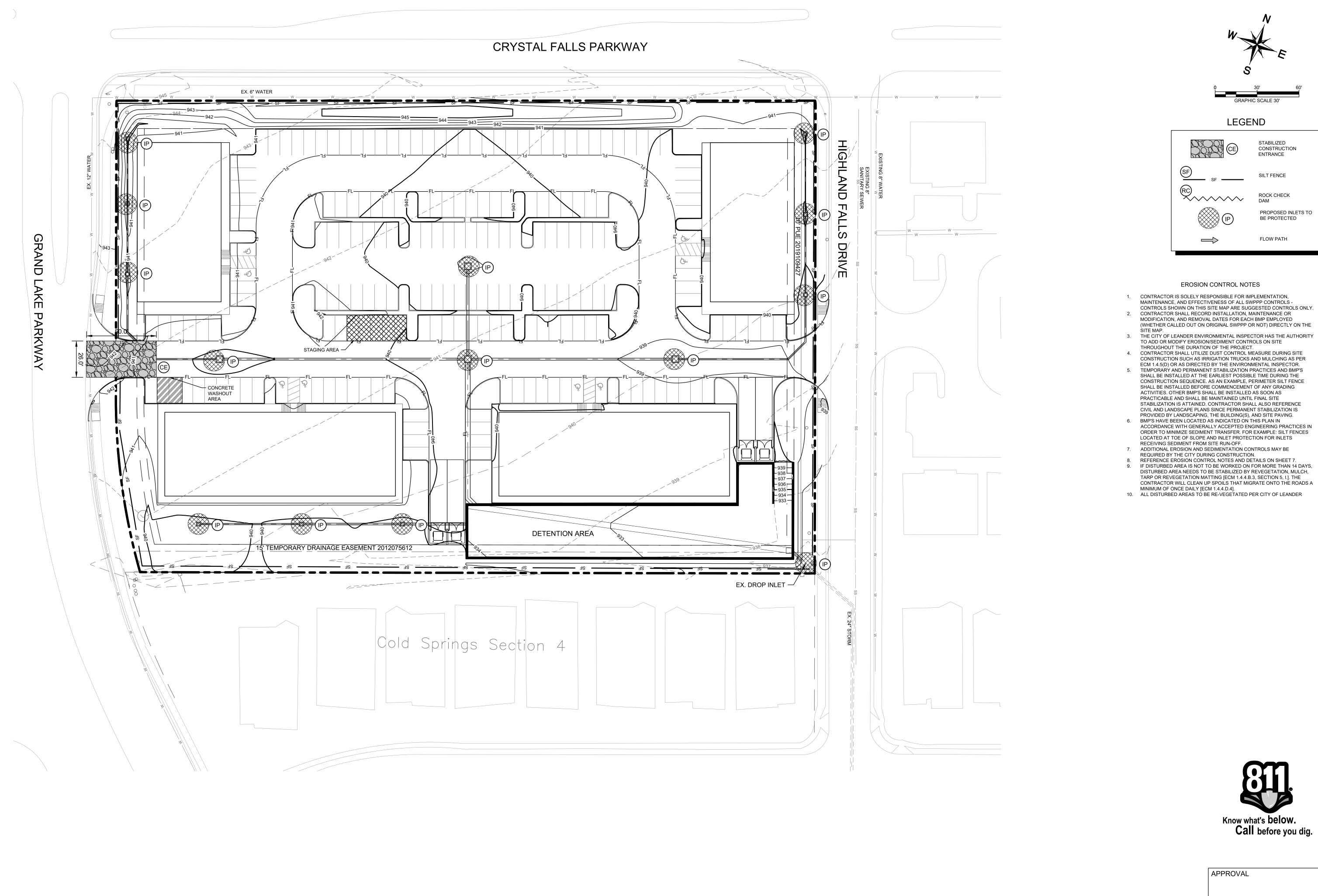
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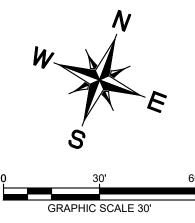




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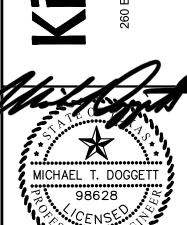
SHEET NUMBER
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STABILIZED CONSTRUCTION **ENTRANCE** SILT FENCE ROCK CHECK PROPOSED INLETS TO BE PROTECTED FLOW PATH

- MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS -CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE
- TO ADD OR MODIFY EROSION/SEDIMENT CONTROLS ON SITE
- CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(D) OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE
- PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS
- REFERENCE EROSION CONTROL NOTES AND DETAILS ON SHEET 7. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING [ECM 1.4.4.B.3, SECTION 5, I.]. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A
- 10. ALL DISTURBED AREAS TO BE RE-VEGETATED PER CITY OF LEANDER



THE SHOPS OF CRYSTAL FALLS



CONTROL EROSION

SHEET NUMBER 6 OF 23

1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.

2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').

. THICKNESS: NOT LESS THAN 200 mm (8"). 4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.

. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. 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 SEDIMENTS THAT IS SPILLED. DROPPED, WASHED OR TRACKED ONTO PUBLIC. ROADWAY MUST BE REMOVED IMMEDIATELY.

DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT

STABILIZED CONSTRUCTION ENTRANCE

ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE THIS STANDARD.

600 mm - |--

(24") MIN.

- STEEL OR WOOD FENCE POSTS MAX. 2.4 m (8") SPACING SILT FENCE FABRIC -- 2" x 4" WELDED WIRE BACKING SUPPORT FOR FABRIC (12.5 GA. WIRE) (6") MIN. TRENCH (BACKFILLED) STANDARD SYMBOL FOR SILT FENCE (SF) TRENCH CROSS SECTION L=

1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.

3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

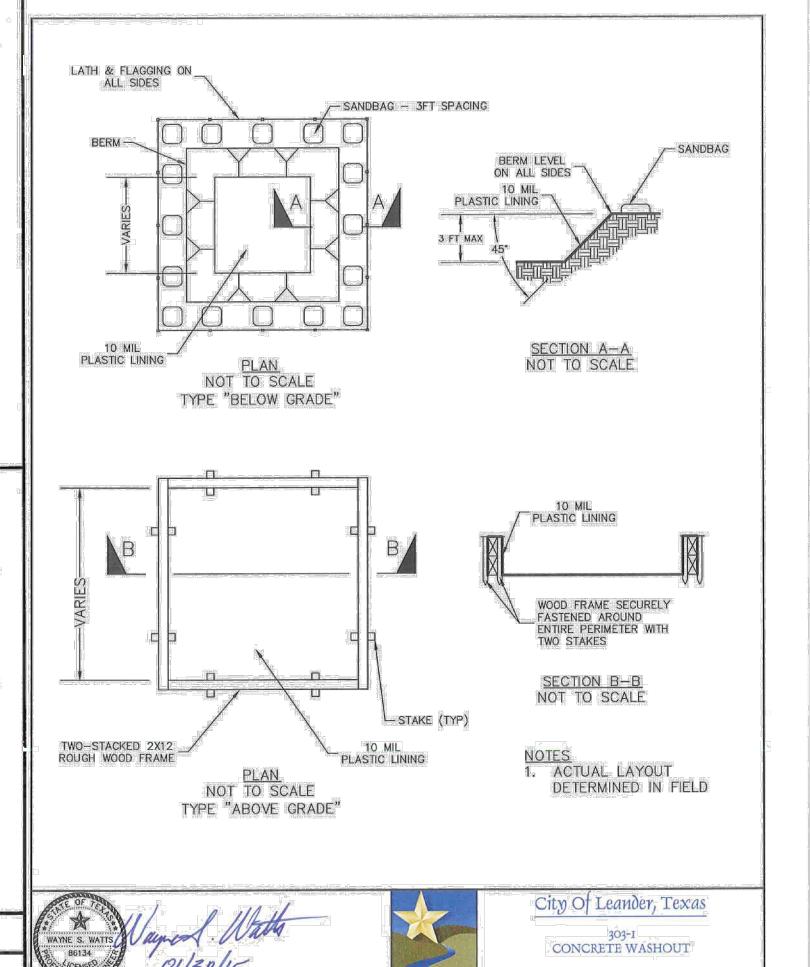
4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.

5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 Inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

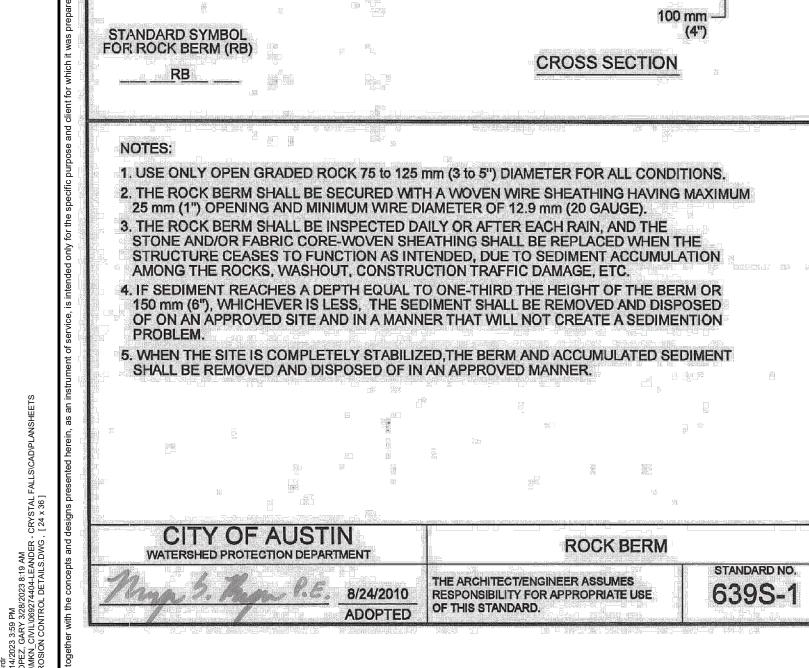
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT SILT FENCE STANDARD NO. THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE 6425-1 ADOPTED

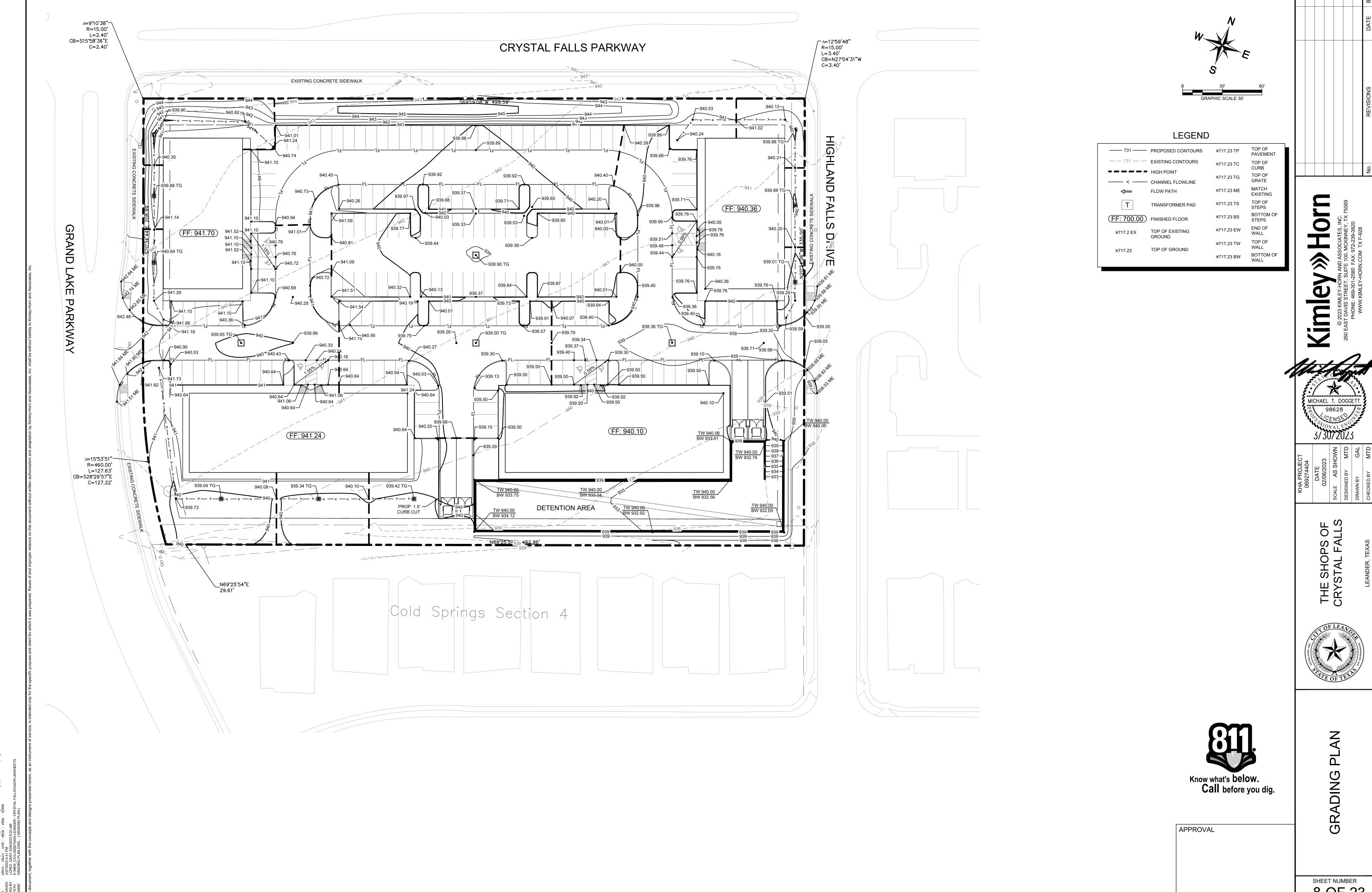




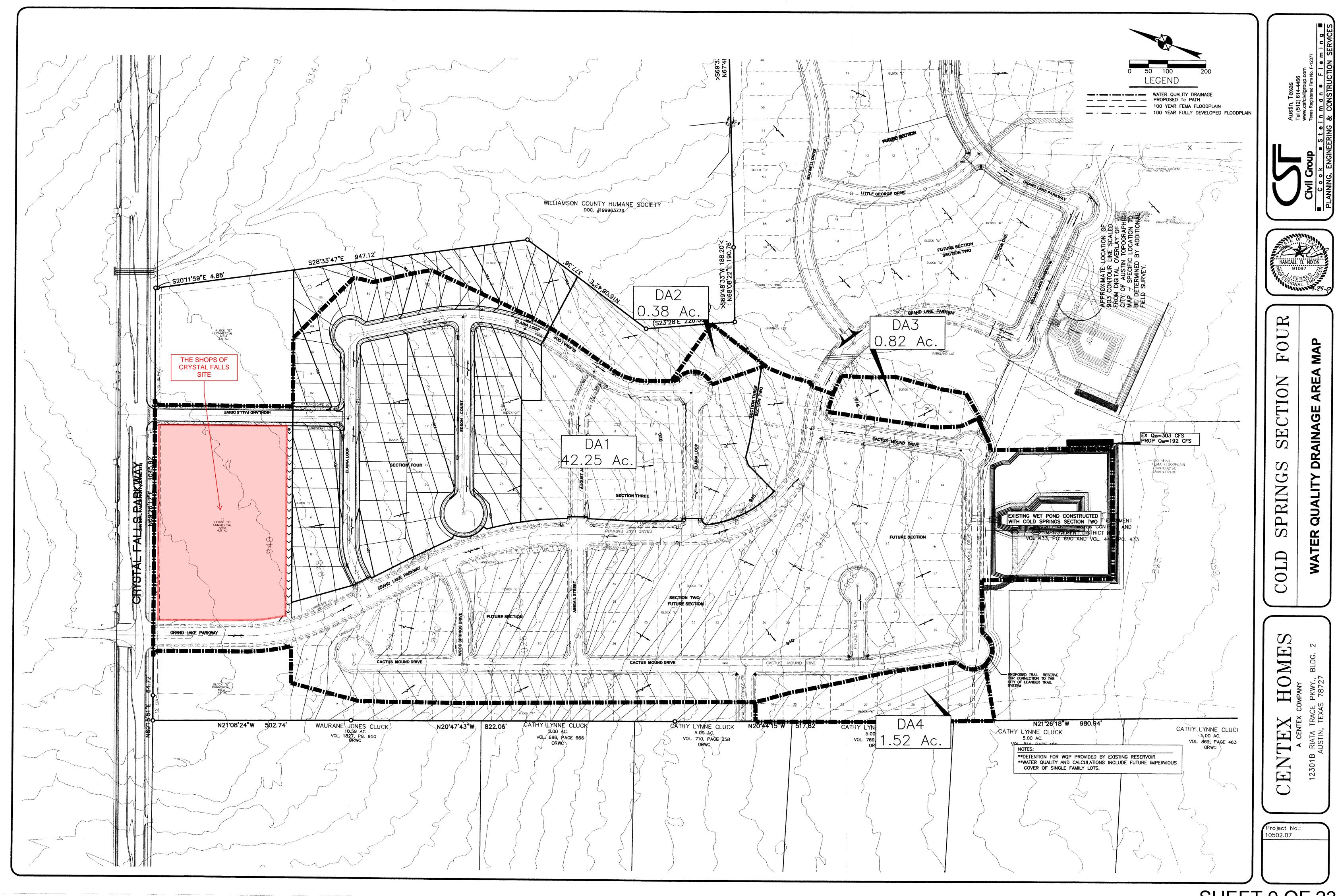
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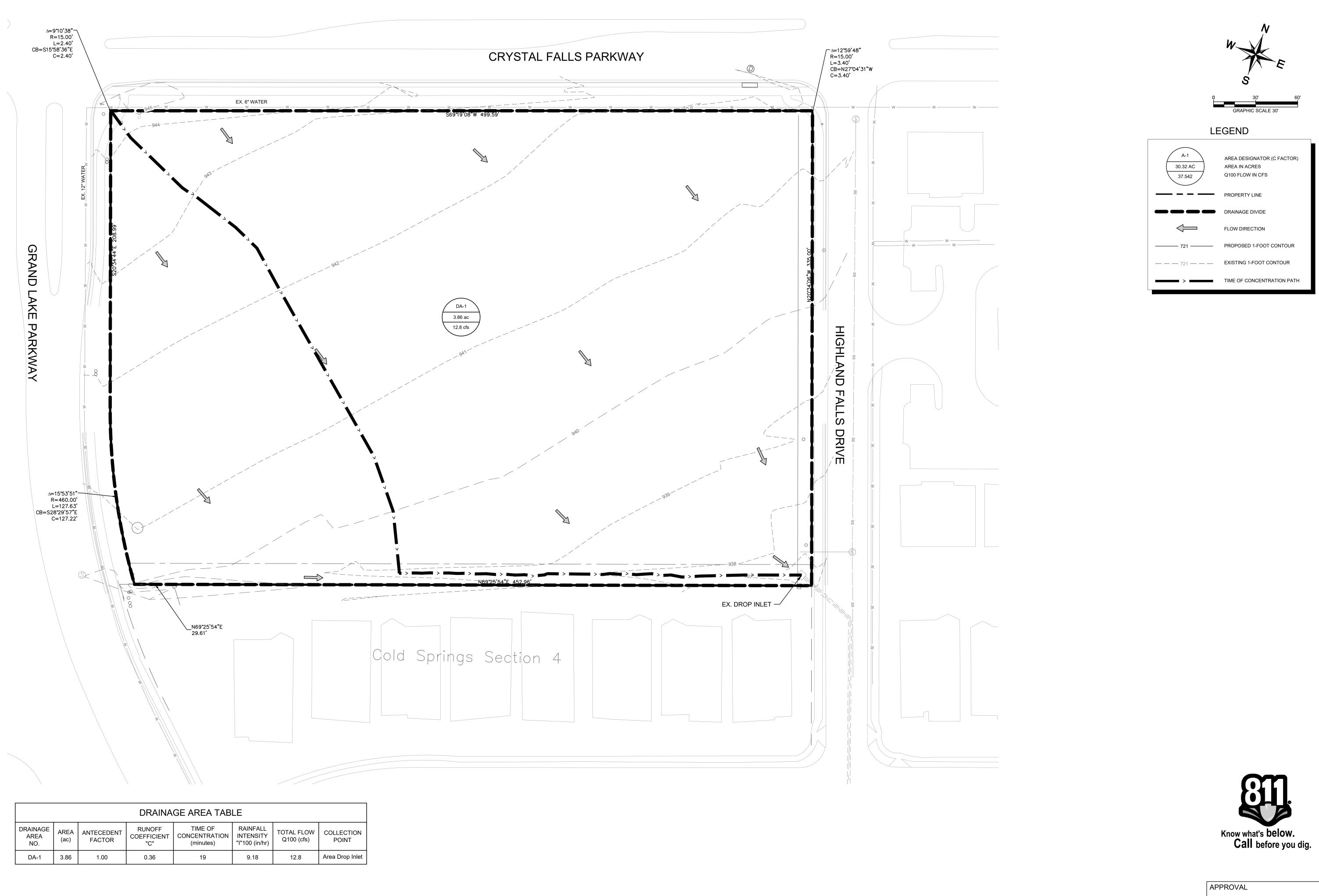


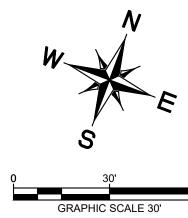




8 OF 23







LEGEND

AREA IN ACRES Q100 FLOW IN CFS

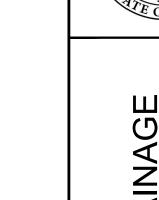
— 721 — PROPOSED 1-FOOT CONTOUR

AREA DESIGNATOR (C FACTOR)

TIME OF CONCENTRATION PATH

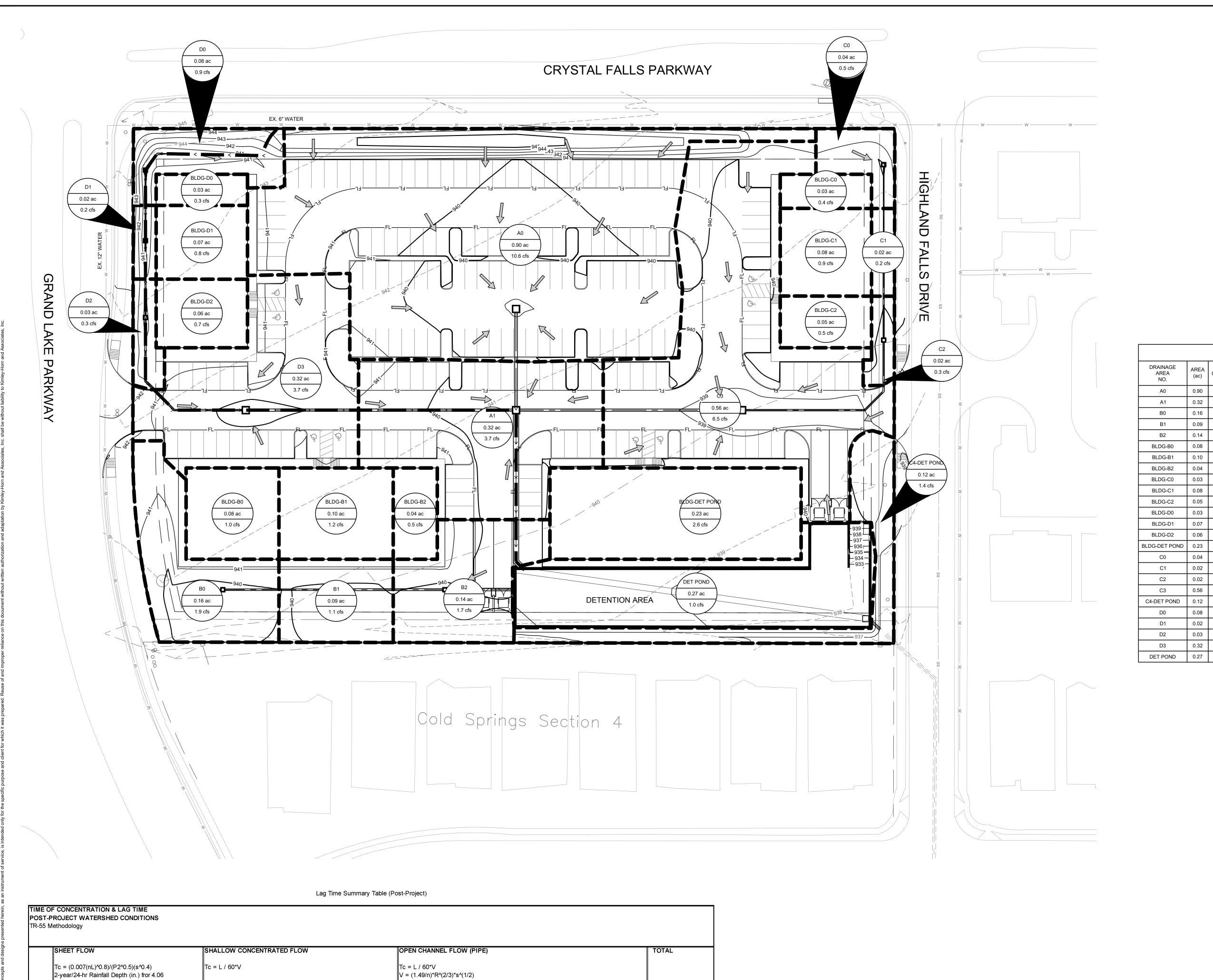
THE SHOPS OF CRYSTAL FALLS





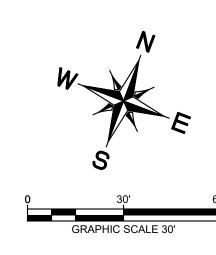
EXISTING DRAINAGE AREA MAP

SHEET NUMBER 10 OF 23

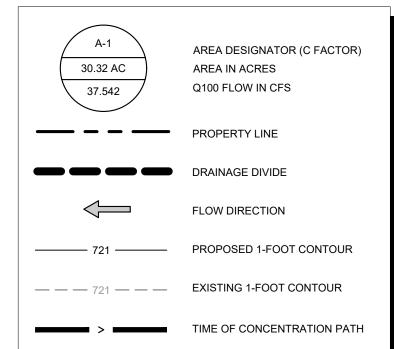


Basin Length Elev₁ Elev₂ Slope Manning's T_{c1} Length Elev₂ Elev₃ Slope Condition V_{av g} T_{c2} Length Manning's Pipe Dia. Area Perimeter Hyd. R Slope V_{av g} T_{c3} T_{cTOTAL} * T_{lag}

(ft) "n" (ft) (ft^2) (ft) (ft) (ft/ft) (ft/s) (min)



LEGEND



		DI	RAINAGE ARE	A TABLE		
DRAINAGE AREA NO.	AREA (ac)	RUNOFF COEFFICIENT "C"	TIME OF CONCENTRATION (minutes)	RAINFALL INTENSITY "I"100 (in/hr)	TOTAL FLOW Q100 (cfs)	COLLECTION POINT
A0	0.90	0.98	10	12.00	10.6	GRATE INLET
A1	0.32	0.97	10	12.00	3.7	GRATE INLET
В0	0.16	0.97	10	12.00	1.9	AREA DRAIN
B1	0.09	0.97	10	12.00	1.1	AREA DRAIN
B2	0.14	0.97	10	12.00	1.7	AREA DRAIN
BLDG-B0	0.08	0.97	10	12.00	1.0	AREA DRAIN
BLDG-B1	0.10	0.97	10	12.00	1.2	AREA DRAIN
BLDG-B2	0.04	0.97	10	12.00	0.5	AREA DRAIN
BLDG-C0	0.03	0.97	10	12.00	0.4	AREA DRAIN
BLDG-C1	0.08	0.97	10	12.00	0.9	AREA DRAIN
BLDG-C2	0.05	0.97	10	12.00	0.5	AREA DRAIN
BLDG-D0	0.03	0.97	10	12.00	0.3	AREA DRAIN
BLDG-D1	0.07	0.97	10	12.00	0.8	AREA DRAIN
BLDG-D2	0.06	0.97	10	12.00	0.7	AREA DRAIN
BLDG-DET POND	0.23	0.97	10	12.00	2.6	DET POND
C0	0.04	0.97	10	12.00	0.5	AREA DRAIN
C1	0.02	0.97	10	12.00	0.2	AREA DRAIN
C2	0.02	0.97	10	12.00	0.3	AREA DRAIN
C3	0.56	0.97	10	12.00	6.5	GRATE INLET
C4-DET POND	0.12	0.97	10	12.00	1.4	DET POND
D0	0.08	0.97	10	12.00	0.9	AREA DRAIN
D1	0.02	0.97	10	12.00	0.2	AREA DRAIN
D2	0.03	0.97	10	12.00	0.3	AREA DRAIN
D3	0.32	0.97	10	12.00	3.7	GRATE INLET
	I	1		I -		

12.00

0.30



1.0 OUTLET STRUCTURE

APPROVAL

DRAINAGE AREA MAP

THE SHOPS OF CRYSTAL FALLS

SHEET NUMBER 11 OF 23

																	TATION SHE	ŒT R STORM DRA	INIC																
															HT DRAOI	LIC COIVIFUT.	A HONG FOR	(STORIVI DRA	ING																
	STORM DRAIN HYDRAULIC CALCULATIONS TABLE																																		
FROM	ТО	PIPE	DRAINA	GE AREA		RUNOFF	INCRE-	TOTAL	TIMEC	F CONCENTRA	TION	25-YEAR	100-YEAR	Q25	Q100	INLET	Q	PIPE			Н	lGL			HEADLOSS	CALCULATIO	NS			DESIGN	INVERT	ELEV.	T/C		
		LENGTH	INCREMENTA			COEFF.	MENTAL		INLET	TRAVEL	TOTAL	INTENSITY	INTENSITY	RUNOFF	RUNOFF	BYPASS	PIPE	SIZE	n	Sf	D/S	U/S	` ′	V2(OUT)	V1^2/2g	V2^2/2g		V1^2/2G	Hk	HGL	FROM		LEV.	COMMENTS	
<u> </u>	لــــــــا	feet	NO.	AREA	AREA	"C"	"CA"	"CA"	(MIN.)	(MIN.)	(MIN.)	(IN/HR)	(IN/HR)	(CFS)	(CFS)	(CFS)	(CFS)	(IN)		(FT/FT)	⊟ev.	⊟ev.	ft/sec	ft/sec	(FT)	(FT)		(FT)	(FT)	⊟ev.	(FT)	_ `	(FT)		
1 LINE A	2	3	4	5	6		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
1+07.27	1+73.79	66.52	A0	0.900	0.900	0.97	0.873	0.873	10.00	0.00	10.00	9.11	12.07	7.95	10.54	0.00	10.54	21	0.010	0.0026	936.12	936.30	0.00	4.38	0.00	0.30	1.25	0.00	0.37	936.67	933.99	935.65 93	38 90 T	GRATE INLET	
0+07.81	1+07.27		41, LAT A1, LAT A			0.97	1.678	2.551	10.00	0.25	10.25	9.02	11.95	15.14		0.00	30.60	42	0.010	0.0025	935.61	935.85	4.38	5.91	0.30							933.99 93			A1
0+00.00	0+07.81	7.81	,,					2.551	10.00	0.53	10.53	8.93	11.83	-	-	0.00	30.18	42	0.010	0.0025		937.13		5.83	0.54							933.74 93		45° BEND	
-								· '			<u>'</u>								·		•						'	<u> </u>	<u>'</u>	<u>'</u>		'			
LINE B																																			
1+19.15	1+92.89	73.74	B0, BLDG-B0	0.240		0.97	0.233	0.233	10.00	0.00	10.00	9.11	12.07	2.12	2.81	0.00	2.81	12	0.010	0.0037	937.90		0.00	3.58	0.00							936.04 93		AREA DRAIN	
0+47.00	1+19.15	72.15	B1, BLDG-B1	0.190 0.180	0.430	0.97	0.184	0.417 0.592	10.00	0.34	10.34	8.99	11.91	1.66	2.20	0.00	5.01 9.02	15	0.010	0.0036	937.52		3.58	4.08 5.10	0.20							935.41 93		AREA DRAIN	
0+00.00	0+47.00	47.00	B2, BLDG-B2	0.180	0.610	0.97	0.175	0.592	10.00	0.64	10.64	8.89	23.00	1.55	4.02	0.00	9.02	18	0.010	0.0044	937.11	937.32	4.08	5.10	0.26	0.40	0.50	0.13	0.20	937.52	934.56	934.80 93	9.42	AREA DRAIN	
LINE C																																			
			LINE A, LINE B,																																
			LAT A1, LAT A2,																																
			BLDG-DET POND,																																
			DET POND, C4 -																																
0+00.00	0+12.76	12.76	DET POND	3.860	3.860	0.97	3.744	3.744	10.00	0.00	10.00	9.11	12.07	7.48	11.47	0.00	11.47	18	0.010	0.0071	933.62	933.71	0.00	6.49	0.00	0.65	1.25	0.00	0.82	934.53	931.62	932.00 93	38.11	DUTLET STRUCTURE	
10704	Γ																																		
LAT A1 3+43.69	3+90.15	46.46	D0,BLDG-DO	0.110	0.110	0.97	0.107	0.107	10.00	0.00	10.00	9.11	12.07	0.97	1.29	0.00	1.29	Q	0.010	0.0067	938.13	938.44	0.00	3.69	0.00	0.21	1.25	0.00	0.26	938.70	936.77	937.03 93	20.70	AREA DRAIN	
2+93.25	3+43.69	50.44	D1, BLDG-D1	0.090		0.97	0.107	0.107	10.00	0.00	10.00	9.03	11.97	0.79	1.05	0.00	2.33	10		0.0067	937.65		3.69	4.28	0.00							936.60 93		AREA DRAIN	
2+51.27	2+93.25	41.98	D2, BLDG-D2	0.090	0.290		0.087	0.281	10.00	0.41	10.41	8.97	11.89	0.78	1.04	0.00	3.37	12	0.010	0.0053	937.28	937.50	4.28	4.29	0.28								10.64	AREA DRAIN	
2+24.50	2+51.27	26.77	,			0.97		0.281	10.00	0.57	10.57	8.91	11.82	-	-	0.00	3.32	12	0.010	0.0052	937.04	937.18	4.29	4.23	0.29			0.10	0.10	937.28	935.75		12.01	45° BEND	
1+77.58	2+24.50	46.92			0.290	0.97		0.281	10.00	0.67	10.67	8.88	11.77	-	-	0.00	3.31	12	0.010	0.0051	936.70		4.23	4.22	0.28					937.04	935.49	935.75 94	10.50	45° BEND	
0+00.00	1+77.58	177.58	D3	0.320	0.610	0.97	0.310	0.592	10.00	0.86	10.86	8.82	11.69	2.74	3.63	0.00	6.94	18	0.010	0.0026	936.12	936.58	4.22	3.93	0.28	0.24	0.50	0.14	0.12	936.70	933.97	934.99 93	39.65	GRATE INLET	
=	T																																		
LAT A2	2.05.50	E7.64	C0 DI DC C0	1 0 070	0.070	0.07	0.060	0.000	10.00	1 000	10.00	0.11	T 40.07 T	0.60	0.00	0.00	000	6	0.010	0.0106	020.40	1 020 OF 1	0.00	4 47	0.00	0.07	1 05	0.00	0.24	020 40	027.46	027.00	10.04	A DEA DDAIN	
3+37.92 2+80.29	3+95.56 3+37.92	57.64 57.63	C0,BLDG-C0 C1, BLDG-C1	0.070	0.070	0.97	0.068 0.097	0.068 0.165	10.00 10.00	0.00 0.23	10.00 10.23	9.11 9.03	12.07	0.62 0.88	0.82 1.16	0.00	0.82 1.98	10	0.010 0.010	0.0126 0.0048	938.12 937.74	+ +	0.00 4.17	4.17 3.63	0.00			0.00					40.21 39.88	AREA DRAIN AREA DRAIN	
2+46.66	2+80.29	33.63	C1, BLDG-C1	0.100		0.97	0.097	0.103	10.00	0.23	10.23	8.94	11.85	0.61	0.80	0.00	2.78	12	0.010	0.0046	937.74	937.64	3.63	3.55	0.20			0.14					39.00	AREA DRAIN	
2+29.06	2+46.66	17.60	32, 2223 32	5.575	0.240		3.555	0.233	10.00	0.65	10.65	8.89	11.78	-	-	0.00	2.74	12		0.0035	937.36		3.55	3.49	0.20						936.16		39.34	45° BEND	
1+48.52	2+29.06	80.54				0.97		0.233	10.00	0.74	10.74	8.86	11.74	-	-	0.00	2.73	12		0.0035	936.98		3.49	3.48	0.19				0.10			936.16 93	39.00	45° BEND	
0+00.00	1+48.52	148.52	C3	0.560	0.800	0.97	0.543	0.776	10.00	1.12	11.12	8.74	11.58	4.75	6.29	0.00	9.03	18	0.010	0.0044	936.12	936.77	3.48	5.11	0.19	0.41	0.50	0.09	0.20	936.98	933.99	935.08 93	38.34	GRATE INLET	
<u> </u>																	<u> </u>						·	<u> </u>	·			-							<u></u>

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260 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX 75069
PHONE: 469-301-2580 FAX: 972-239-3820

69274404

DATE

02/06/2023

SCALE AS SHOWN

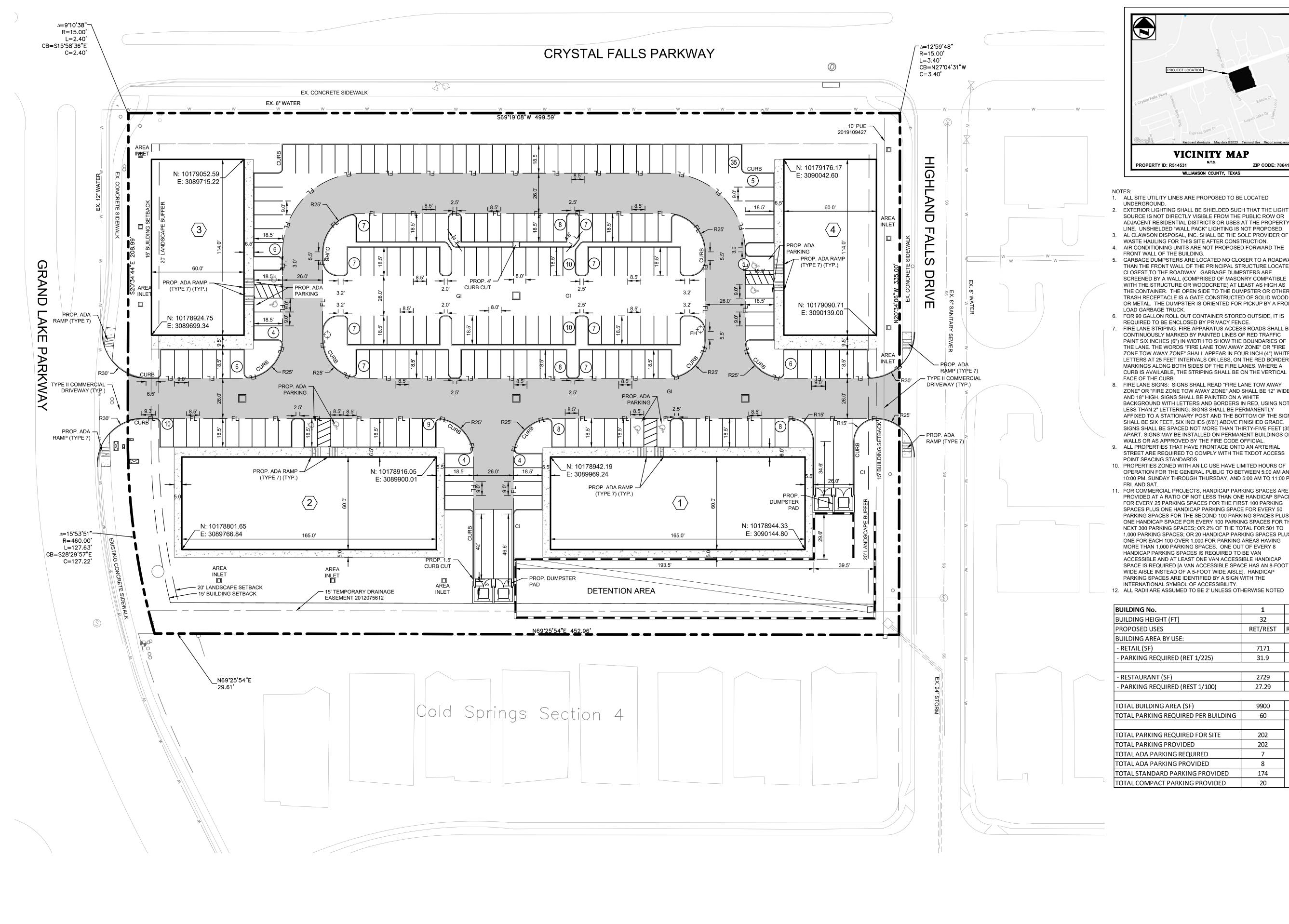
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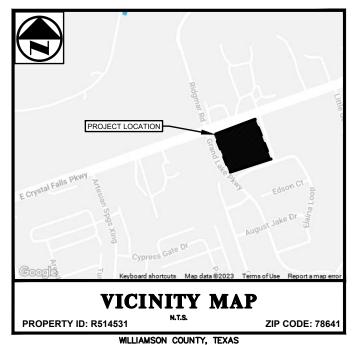


DRAINAGE CALCULATIONS

SHEET NUMBER
12 OF 23

GIY Logo:
FS xBrdr
T SAVED 3/13/2023 5:33 PM
TTED BY LOPEZ, GARY 3/28/2023 8:20 AM
S TMKN_CIVIL/069274404-LEANDER - CRYSTAL FALLS/CAD/PLAN
S PATH K:MKN_CIVIL/069274404-LEANDER - CRYSTAL FALLS/CAD/PLAN
S NAME DRAINAGE CALCULATIONS.DWG, [DRAINAGE CALCULATIONS.DWG)





1. ALL SITE UTILITY LINES ARE PROPOSED TO BE LOCATED

SOURCE IS NOT DIRECTLY VISIBLE FROM THE PUBLIC ROW OR ADJACENT RESIDENTIAL DISTRICTS OR USES AT THE PROPERTY LINE. UNSHIELDED "WALL PACK" LIGHTING IS NOT PROPOSED. AL CLAWSON DISPOSAL, INC. SHALL BE THE SOLE PROVIDER OF WASTE HAULING FOR THIS SITE AFTER CONSTRUCTION. 4. AIR CONDITIONING UNITS ARE NOT PROPOSED FORWARD THE

GARBAGE DUMPSTERS ARE LOCATED NO CLOSER TO A ROADWAY HAN THE FRONT WALL OF THE PRINCIPAL STRUCTURE LOCATED CLOSEST TO THE ROADWAY. GARBAGE DUMPSTERS ARE SCREENED BY A WALL (COMPRISED OF MASONRY COMPATIBLE WITH THE STRUCTURE OR WOODCRETE) AT LEAST AS HIGH AS THE CONTAINER. THE OPEN SIDE TO THE DUMPSTER OR OTHER TRASH RECEPTACLE IS A GATE CONSTRUCTED OF SOLID WOOD OR METAL. THE DUMPSTER IS ORIENTED FOR PICKUP BY A FRONT 6. FOR 90 GALLON ROLL OUT CONTAINER STORED OUTSIDE, IT IS

REQUIRED TO BE ENCLOSED BY PRIVACY FENCE. FIRE LANE STRIPING: FIRE APPARATUS ACCESS ROADS SHALL BE CONTINUOUSLY MARKED BY PAINTED LINES OF RED TRAFFIC PAINT SIX INCHES (6") IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE. THE WORDS "FIRE LANE TOW AWAY ZONE" OR "FIRE ZONE TOW AWAY ZONE" SHALL APPEAR IN FOUR INCH (4") WHITE LETTERS AT 25 FEET INTERVALS OR LESS. ON THE RED BORDER MARKINGS ALONG BOTH SIDES OF THE FIRE LANES. WHERE A CURB IS AVAILABLE, THE STRIPING SHALL BE ON THE VERTICAL 8. FIRE LANE SIGNS: SIGNS SHALL READ "FIRE LANE TOW AWAY

ZONE" OR "FIRE ZONE TOW AWAY ZONE" AND SHALL BE 12" WIDE AND 18" HIGH. SIGNS SHALL BE PAINTED ON A WHITE BACKGROUND WITH LETTERS AND BORDERS IN RED, USING NOT LESS THAN 2" LETTERING. SIGNS SHALL BE PERMANENTLY AFFIXED TO A STATIONARY POST AND THE BOTTOM OF THE SIGN SHALL BE SIX FEET, SIX INCHES (6'6") ABOVE FINISHED GRADE. SIGNS SHALL BE SPACED NOT MORE THAN THIRTY-FIVE FEET (35') APART. SIGNS MAY BE INSTALLED ON PERMANENT BUILDINGS OR WALLS OR AS APPROVED BY THE FIRE CODE OFFICIAL. 9. ALL PROPERTIES THAT HAVE FRONTAGE ONTO AN ARTERIAL

STREET ARE REQUIRED TO COMPLY WITH THE TXDOT ACCESS POINT SPACING STANDARDS. 10. PROPERTIES ZONED WITH AN LC USE HAVE LIMITED HOURS OF OPERATION FOR THE GENERAL PUBLIC TO BETWEEN 5:00 AM AND 10:00 PM. SUNDAY THROUGH THURSDAY, AND 5:00 AM TO 11:00 PM

11. FOR COMMERCIAL PROJECTS, HANDICAP PARKING SPACES ARE PROVIDED AT A RATIO OF NOT LESS THAN ONE HANDICAP SPACE FOR EVERY 25 PARKING SPACES FOR THE FIRST 100 PARKING SPACES PLUS ONE HANDICAP PARKING SPACE FOR EVERY 50 PARKING SPACES FOR THE SECOND 100 PARKING SPACES PLUS ONE HANDICAP SPACE FOR EVERY 100 PARKING SPACES FOR THE NEXT 300 PARKING SPACES; OR 2% OF THE TOTAL FOR 501 TO 1,000 PARKING SPACES; OR 20 HANDICAP PARKING SPACES PLUS ONE FOR EACH 100 OVER 1,000 FOR PARKING AREAS HAVING MORE THAN 1,000 PARKING SPACES. ONE OUT OF EVERY 8 HANDICAP PARKING SPACES IS REQUIRED TO BE VAN ACCESSIBLE AND AT LEAST ONE VAN ACCESSIBLE HANDICAP SPACE IS REQUIRED [A VAN ACCESSIBLE SPACE HAS AN 8-FOOT WIDE AISLE INSTEAD OF A 5-FOOT WIDE AISLE]. HANDICAP
PARKING SPACES ARE IDENTIFIED BY A SIGN WITH THE

INTERNATIONAL SYMBOL OF ACCESSIBILITY. 12. ALL RADII ARE ASSUMED TO BE 2' UNLESS OTHERWISE NOTED

	(\cup)		
PROJECT LOCATIO	Ridginal Rd	Thile o	
Falls PKWY	Grand Late State S	Ct doog	
Falls PKWY Angelan Spaga Xing	Edson C August Jake Dr	Elaina	
☐ Keyboard s	nontcuts Map data ⊚2023 Terms of Use Rep	eport a map error	

LEGEND

PROPOSED FIRE LANE

PROPOSED BUILDING

PROP. SIDEWALK

PROPSED CONTOUR - MAJOR PROPOSED CONTOUR - MINOR EXISTING CONTOUR - MAJOR **EXISTING CONTOUR - MINOR** BARRIER FREE RAMP (BFR)

ACCESSIBLE PARKING SYMBOL

NUMBER OF PARKING SPACES

WATER METER (AND VAULT)

FH ↔

FIRE HYDRANT FIRE DEPARTMENT CONNECTION SANITARY SEWER MANHOLE TRANSFORMER PAD **CURB INLET GRATE INLET** JUNCTION BOX OR WYE INLET

HEADWALL **TYPICAL** SANITARY SEWER EASEMENT WATER EASEMENT DRAINAGE EASEMENT BARRIER FREE RAMP

SIDEWALK BUILDING LINE/SETBACK **CURB INLET GRATE INLET** WYE INLET

JUNCTION BOX MANHOLE **EXISTING** PROP. PROPOSED

SITE DATA SUMMARY TABLE ZONING GROSS BUILDING FOOTPRINT AREA 33,480 SF IMPERVIOUS COVER PROPOSED 78.60%

3 4 Totals 32 32 32 RET/REST RET/REST RET/REST 7171 | 4954 | 4954 | 24250 31.9 22.0 22.0 107.8 9900 | 6840 | 6840 | 33480 60 41 41 202

 2729
 2729
 1886
 1886
 9230
 27.29 27.29 18.86 18.86 92.3 - PARKING REQUIRED (REST 1/100) TOTAL BUILDING AREA (SF) 9900 TOTAL PARKING REQUIRED PER BUILDING 60 TOTAL PARKING REQUIRED FOR SITE 202 TOTAL PARKING PROVIDED 202 TOTAL ADA PARKING REQUIRED 7 TOTAL ADA PARKING PROVIDED 8 TOTAL STANDARD PARKING PROVIDED 174 TOTAL COMPACT PARKING PROVIDED 20

32

7171

31.9



APPROVAL

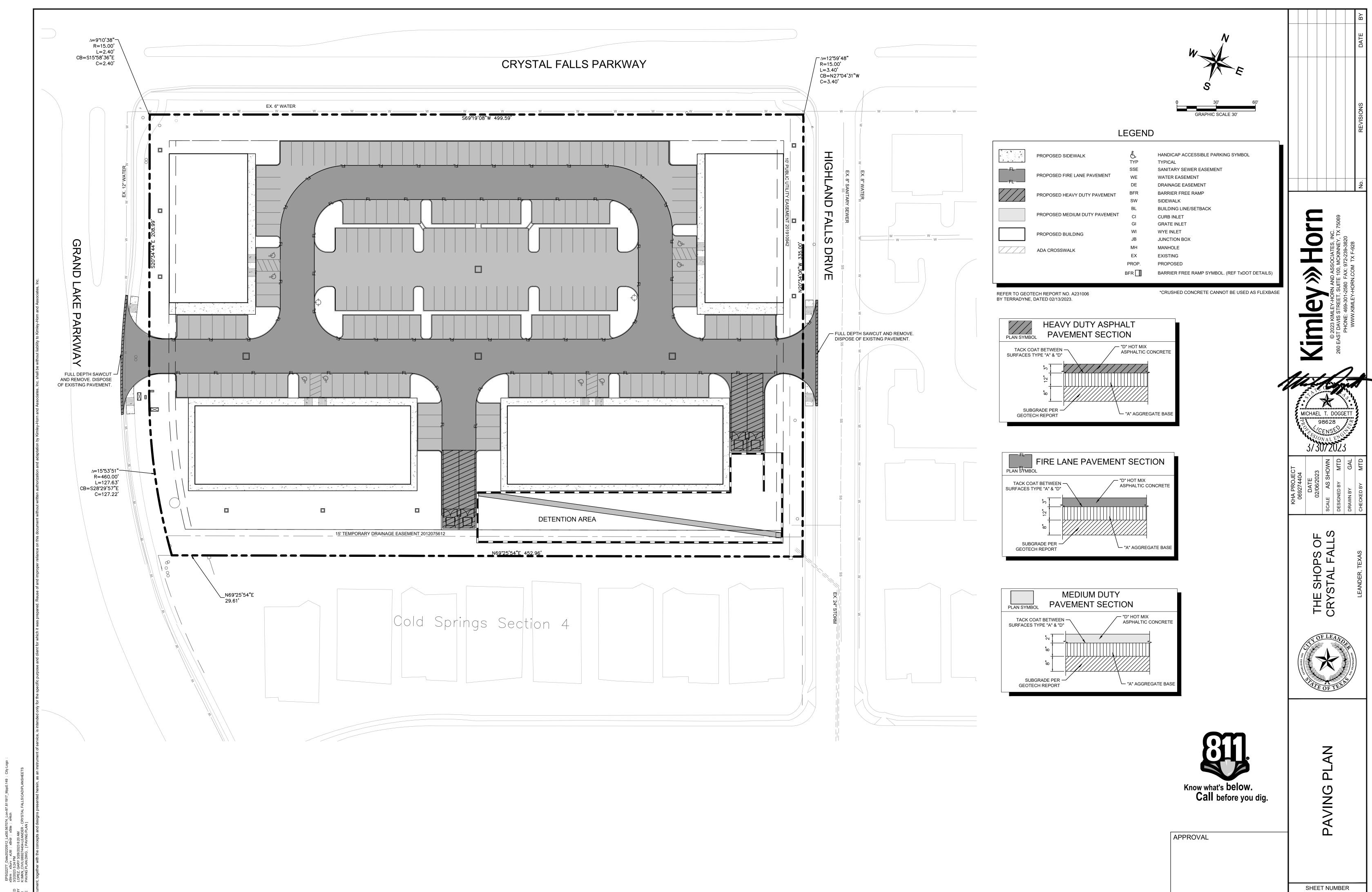
SHEET NUMBER

SITE

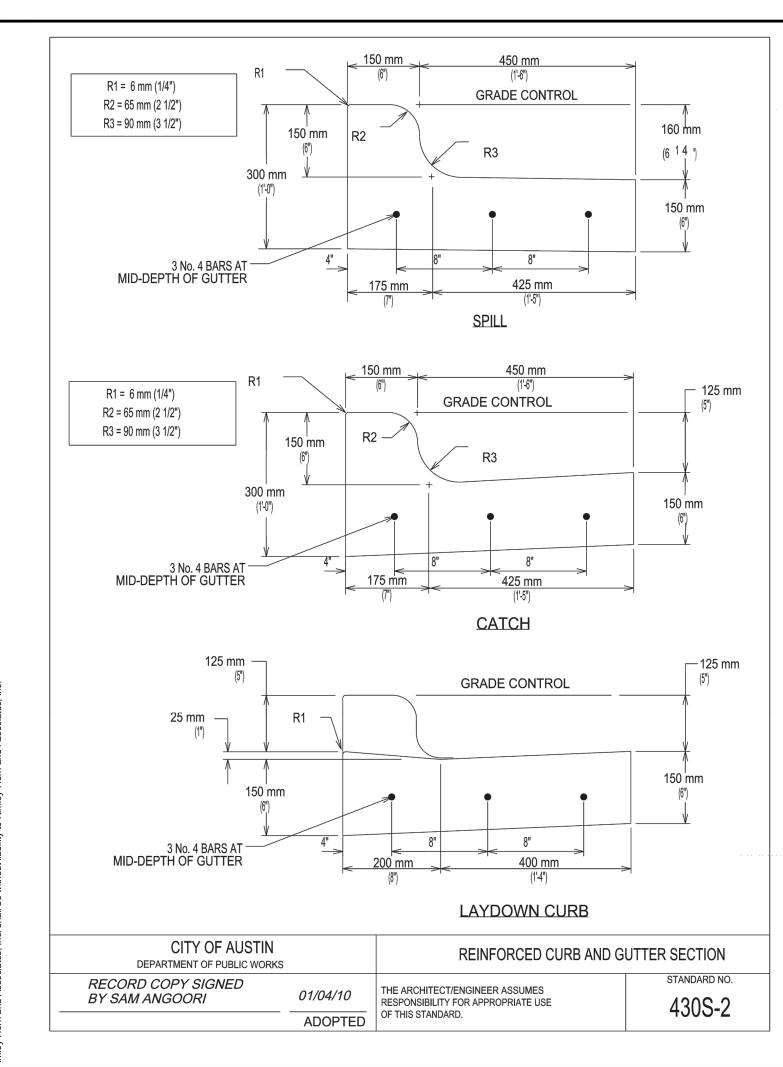
MICHAEL T. DOGGET

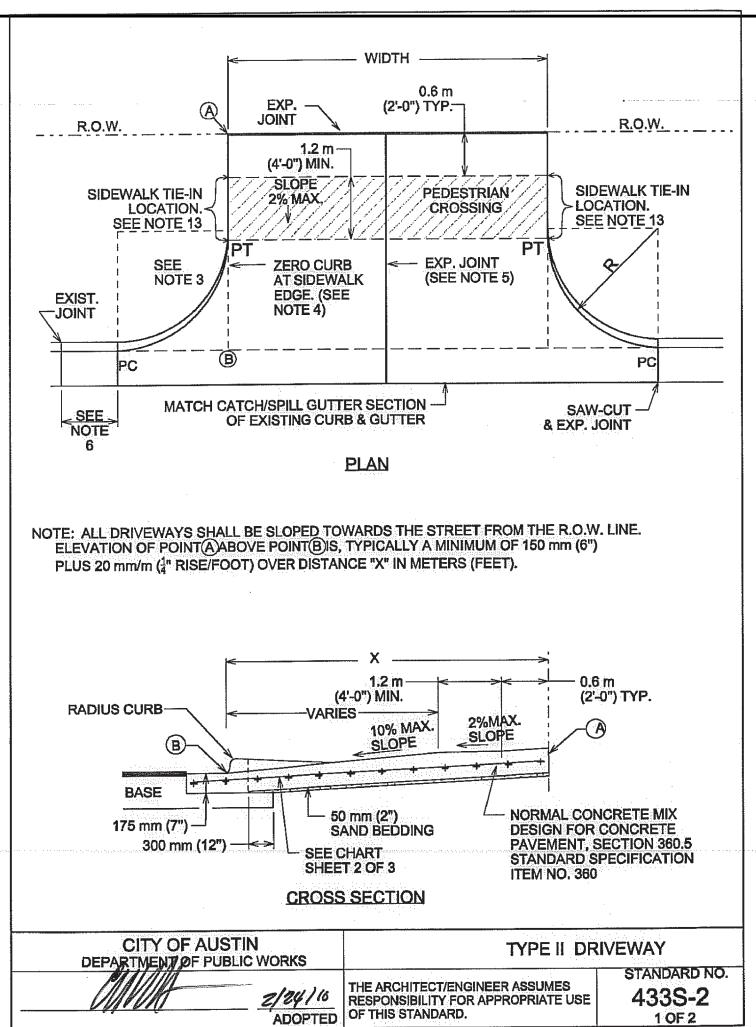
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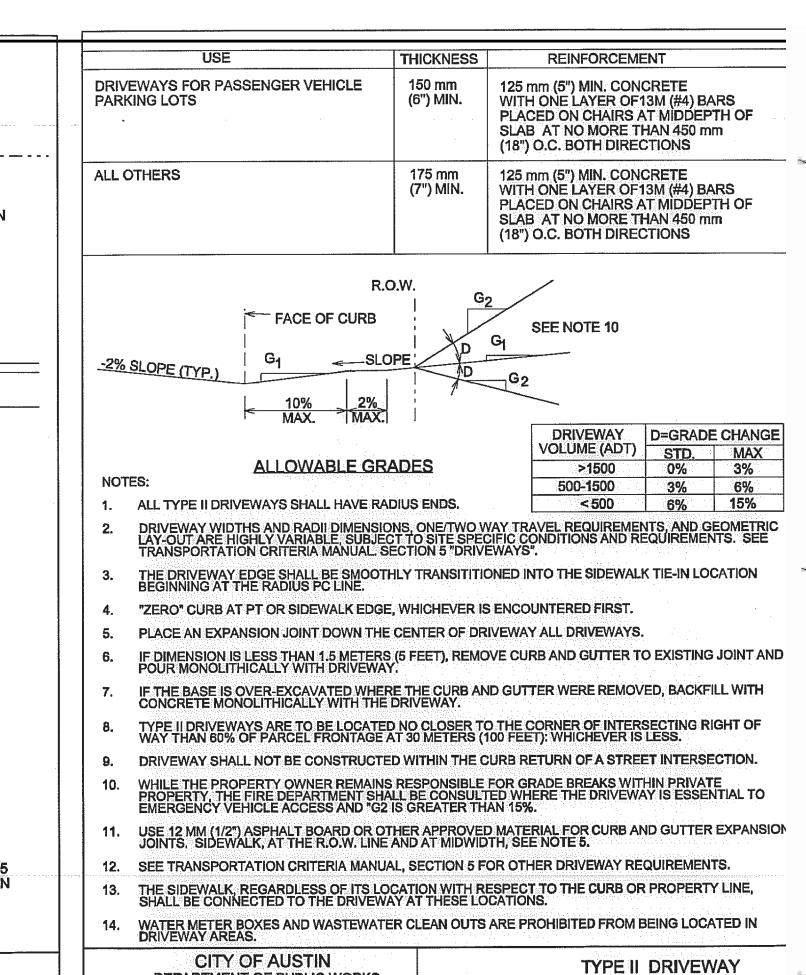
13 OF 23



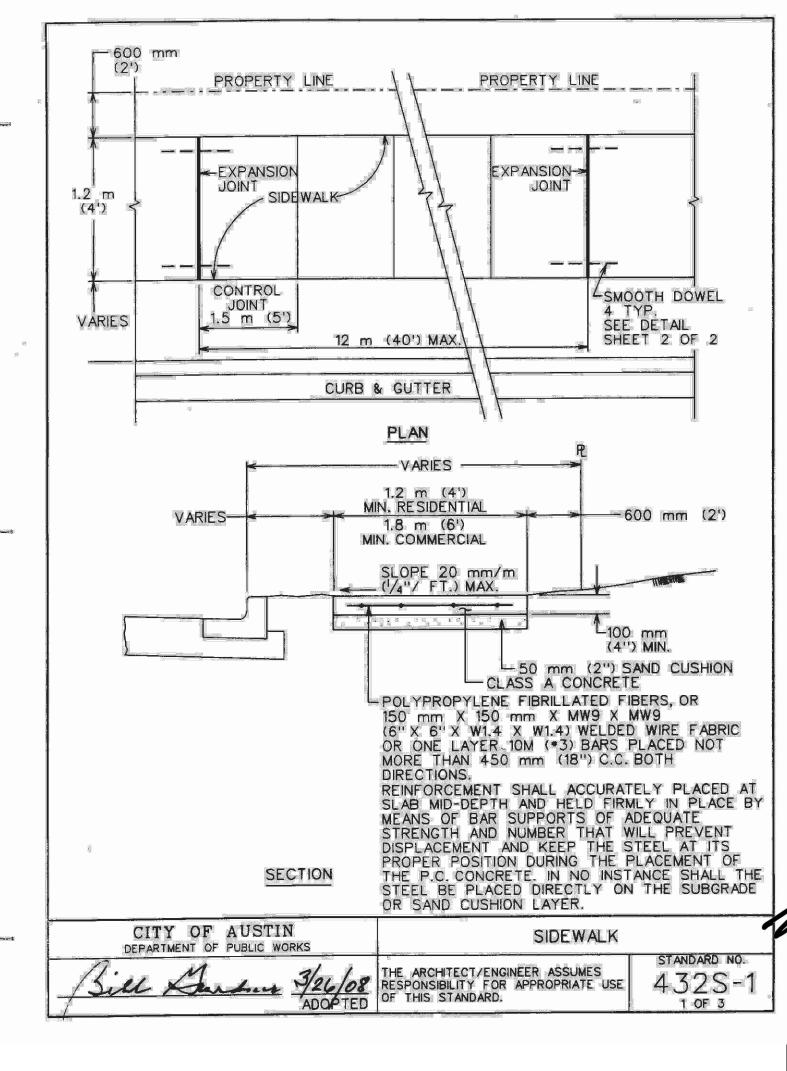
14 OF 23

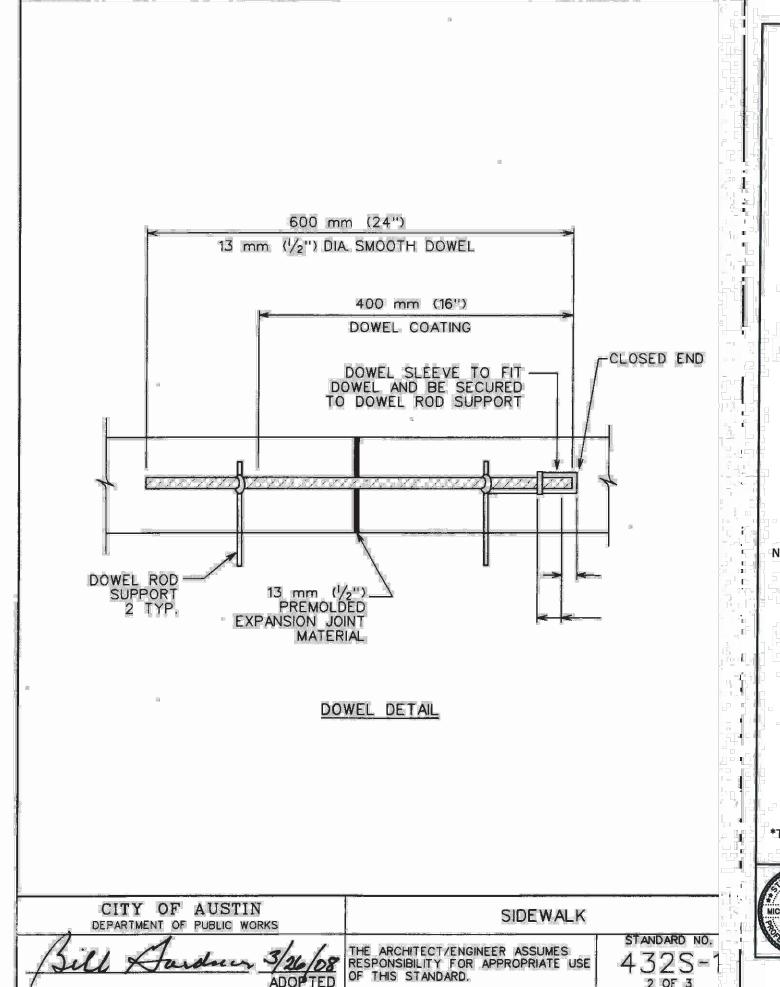




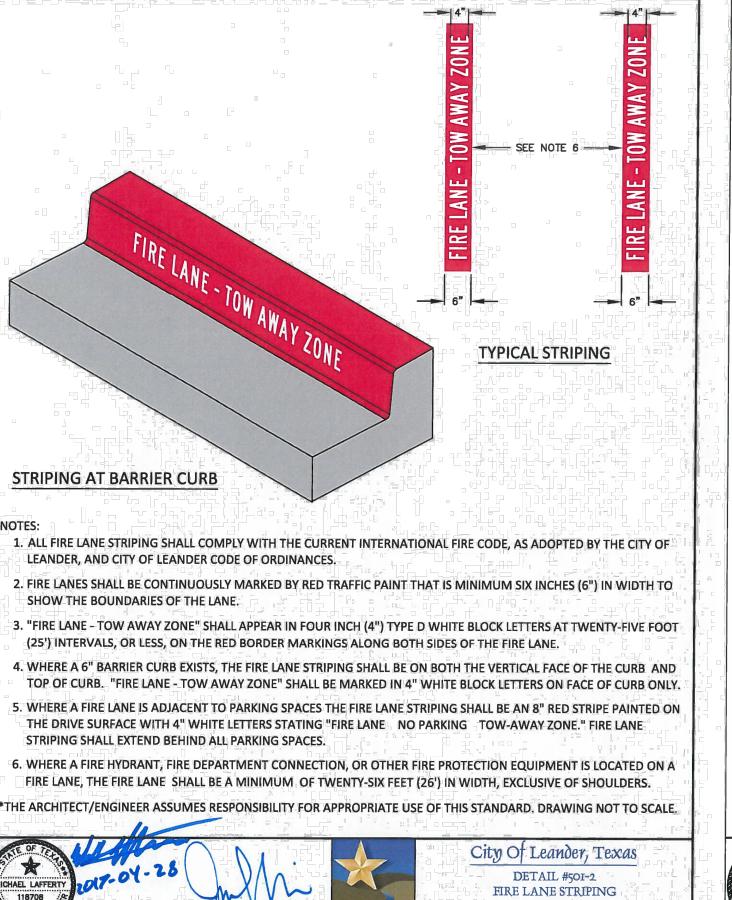


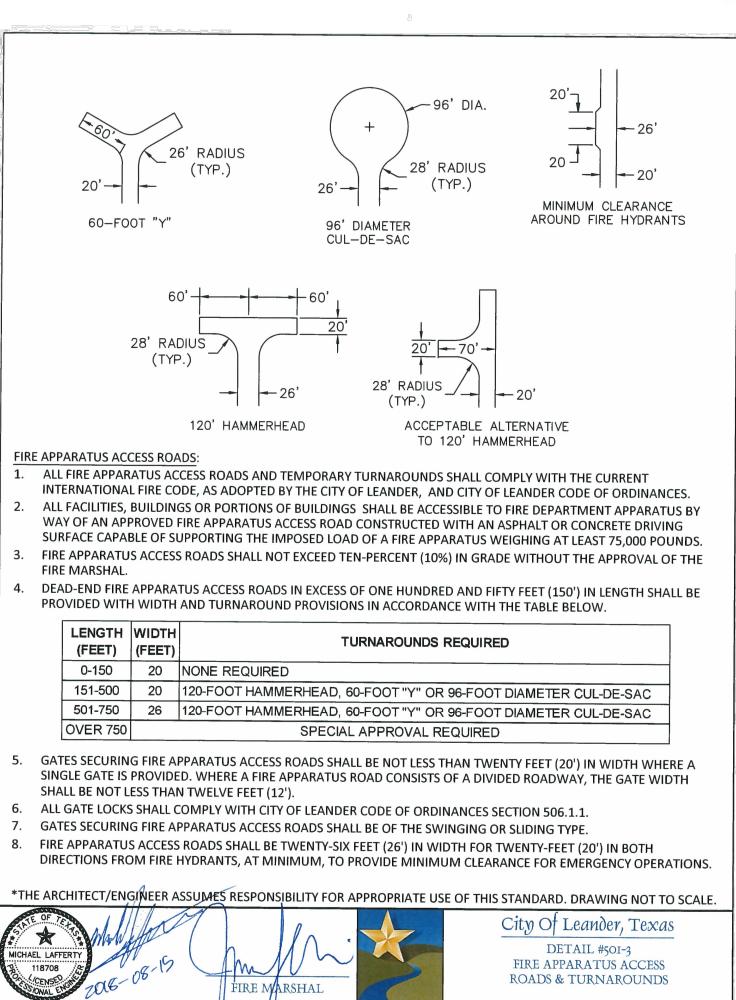
DEPARTMENT OF PUBLIC WORKS





2 OF 3





STANDARD N

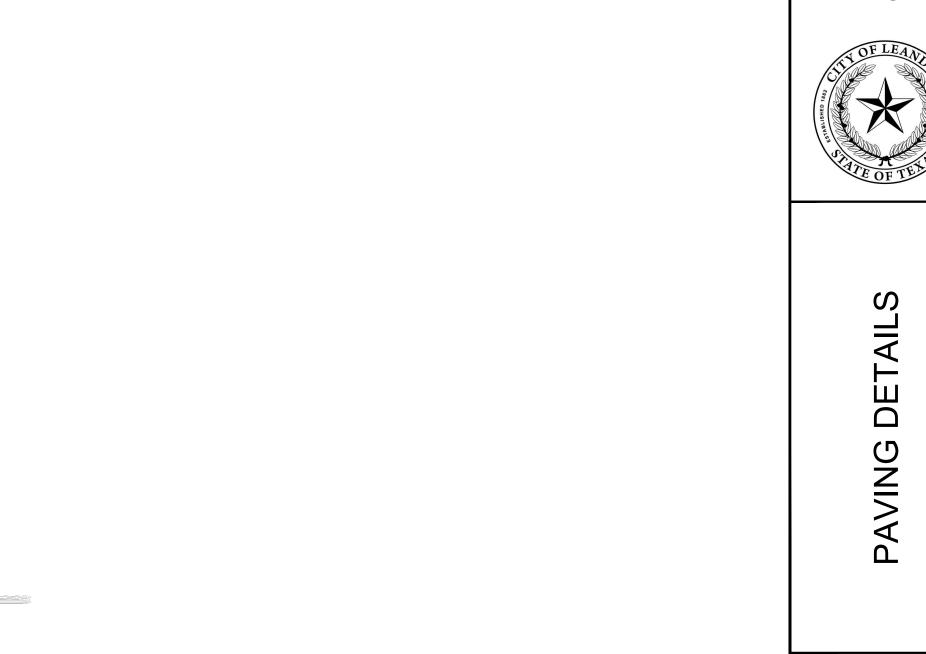
433S-2

2 OF 2

THE ARCHITECT/ENGINEER ASSUMES

ADOPTED | OF THIS STANDARD.

RESPONSIBILITY FOR APPROPRIATE USE



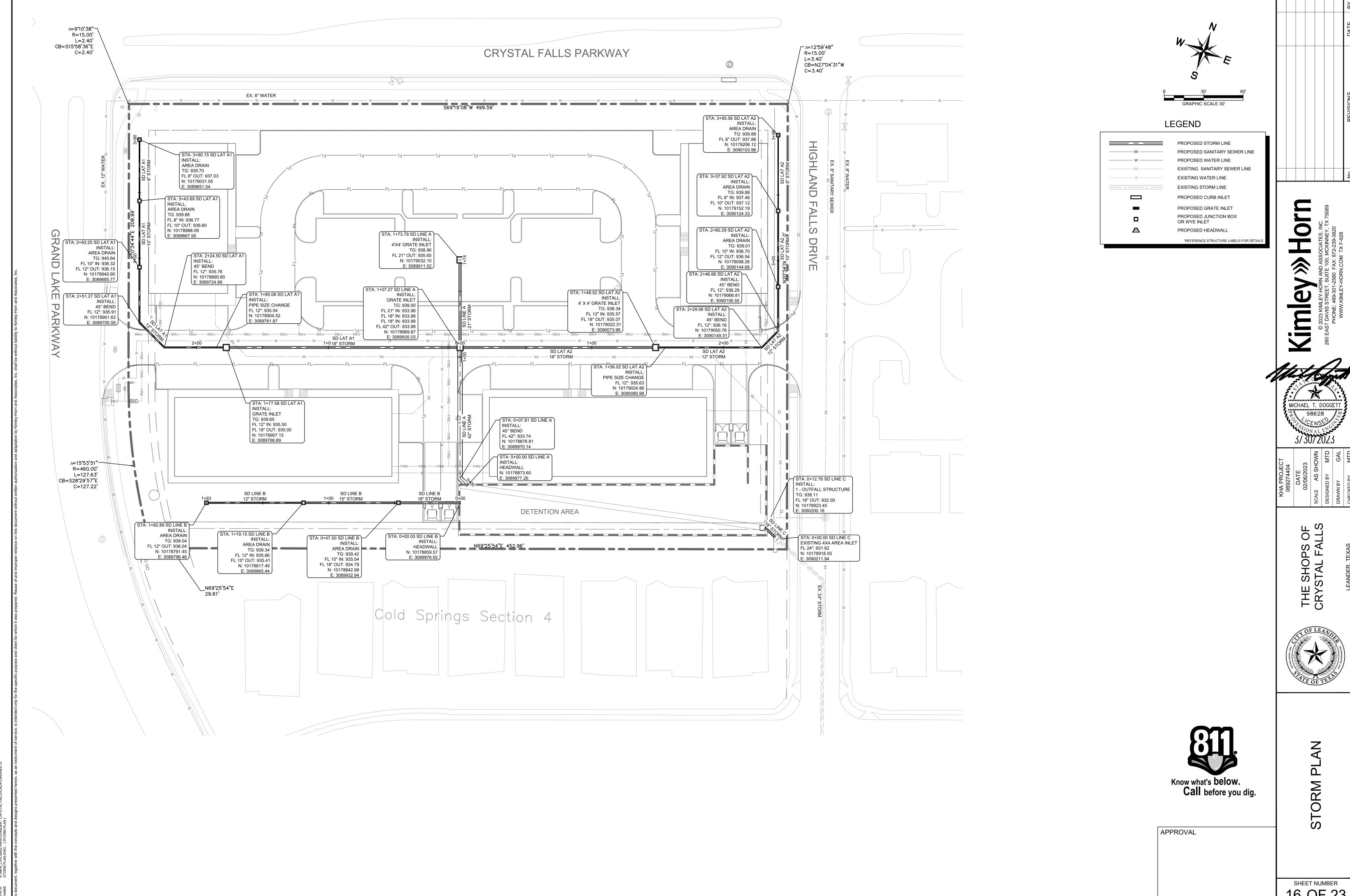
SHEET NUMBER 15 OF 23

0

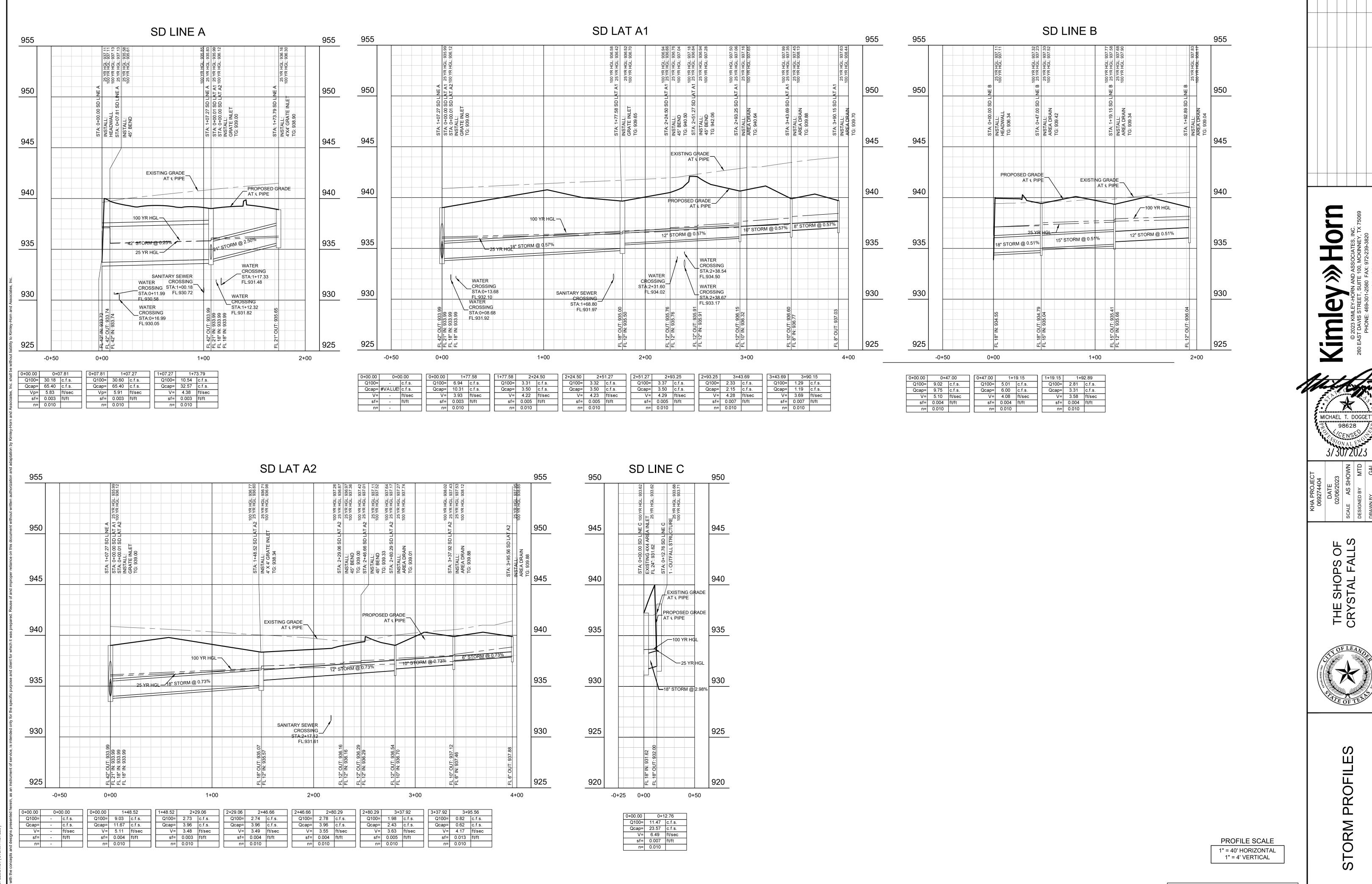
×

MICHAEL T. DOGGET

98628

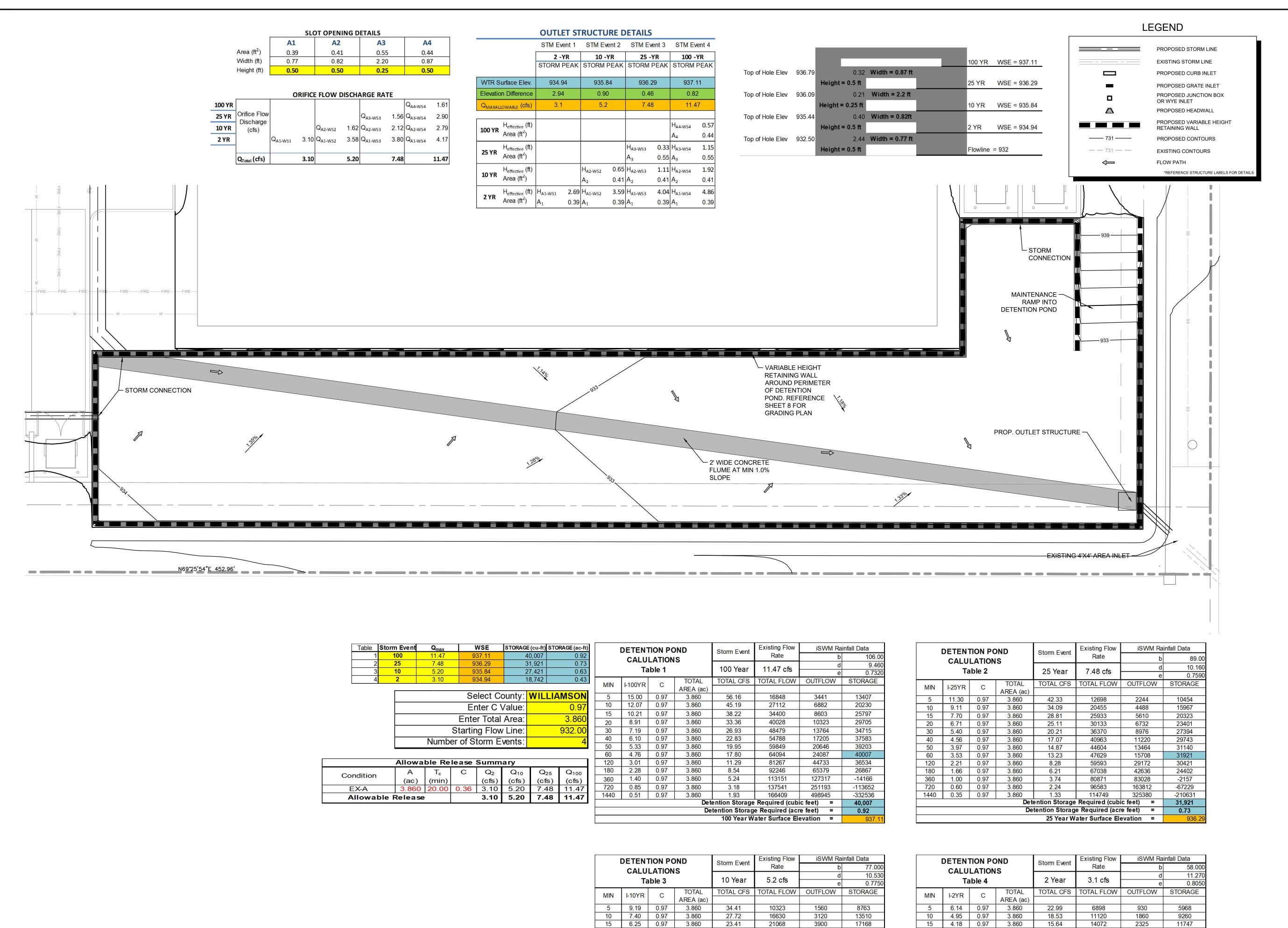


16 OF 23



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

SHEET NUMBER
17 OF 23



5.44 0.97

3.68 0.97 3.860

3.20 0.97 3.860

2.84 0.97 3.860

1.77 0.97 3.860

1.32 0.97 3.860

0.79 0.97 3.860

720 0.46 0.97 3.860

1440 0.27 0.97 3.860

3.860

3.860

2.94

1.74

1.02

6240

29640

226200

25299

23608

5881

-38715

-137855

0.63

33099

53248

88345

10 Year Water Surface Elevation =

75165 113880

63601

Detention Storage Required (cubic feet) =

Detention Storage Required (acre feet) =

念

THE SHOPS OF CRYSTAL FALLS



POND

TENTION

Know what's below.

Call before you dig.

APPROVAL

13518

17256

18143

18696

18742

16487

5643

-21472

-81382

0.43

12090

17670

34410

16308

19565

21906

25206

40053

Detention Storage Required (cubic feet) =

Detention Storage Required (acre feet) =

2 Year Water Surface Elevation =

46418 67890

3.860

9.13

1.85

1.07

0.62

2.90 0.97 3.860

2.44 0.97 3.860

 50
 2.11
 0.97
 3.860

 60
 1.87
 0.97
 3.860

120 1.14 0.97 3.860

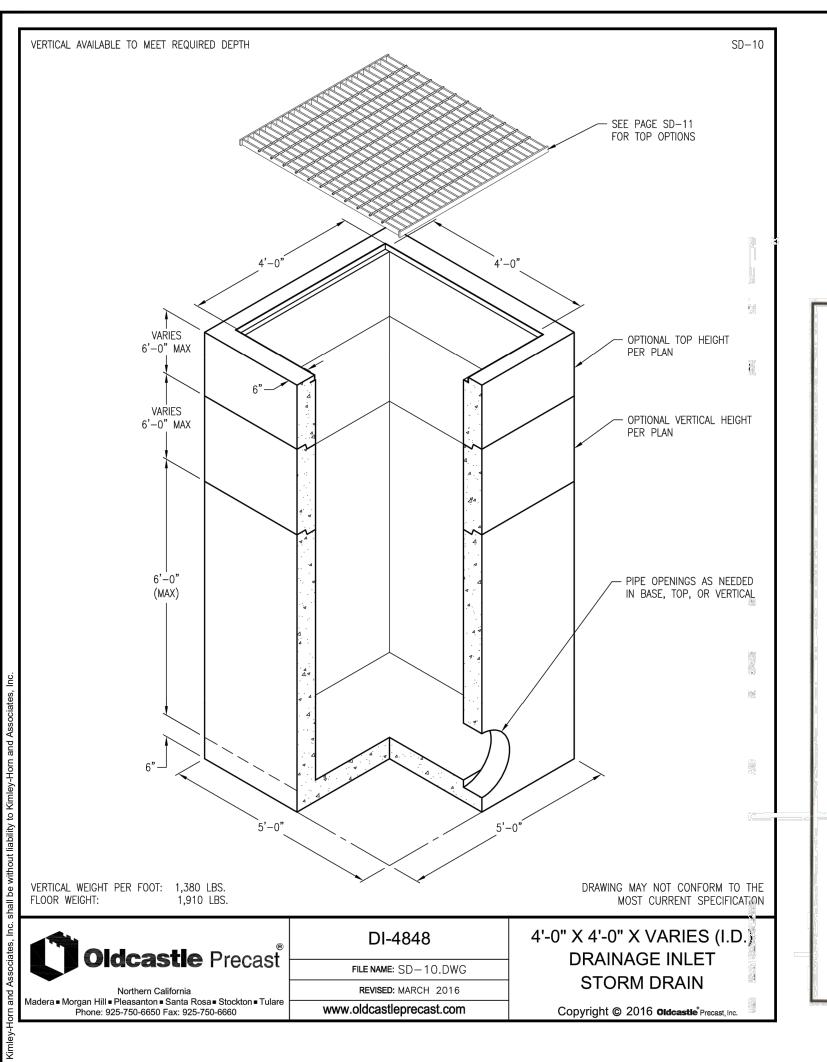
180 0.84 0.97 3.860

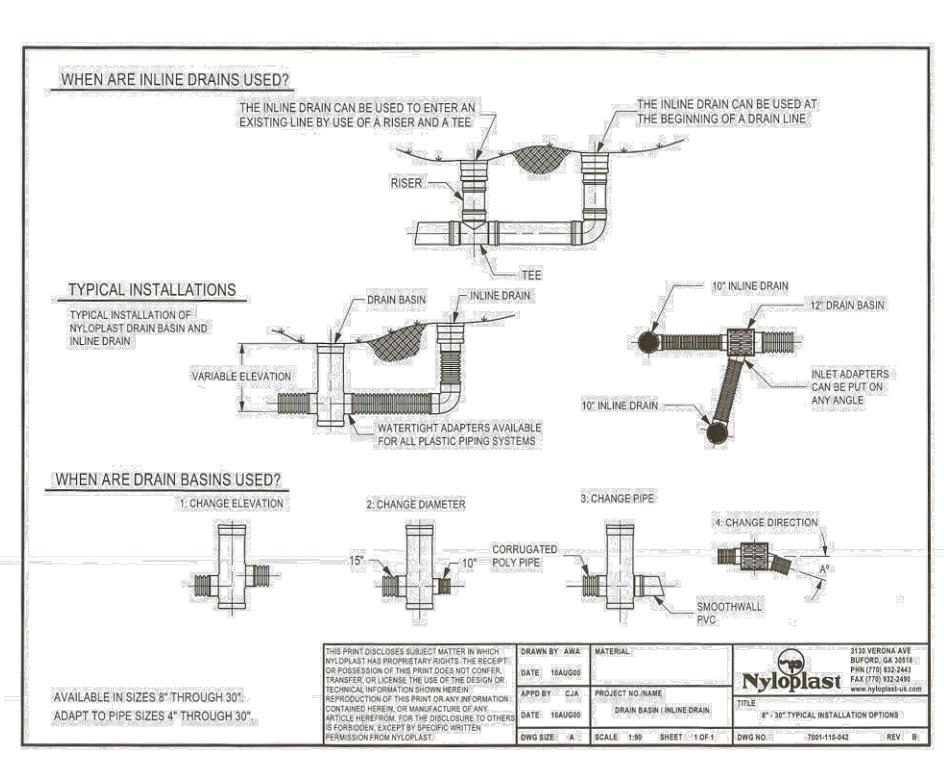
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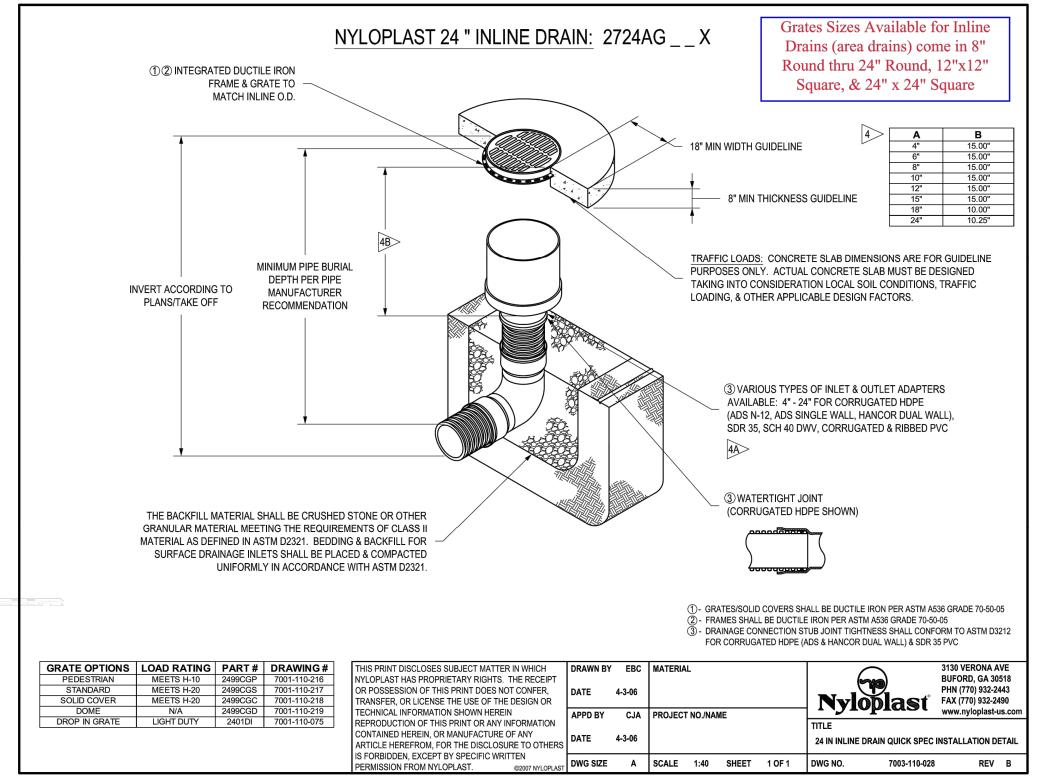
720 0.29 0.97 3.860

1440 0.17 0.97 3.860

SHEET NUMBER 18 OF 23







69 No. REVISIONS DATE

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
260 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX 7506
PHONE: 469-301-2580 FAX: 972-239-3820



DATE 02/06/2023 CALE AS SHOWN PRICALE AS

THE SHOPS OF CRYSTAL FALLS



DRAINAGE DETAILS

ATTACHMENT N INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

SUGGESTED MAINTENANCE PLAN AND SCHEDULE FOR PERMANENT BEST MAMAGEMENT PLANS

PROJECT NAME:	Cold Springs Subdivision

ADDRESS: South side of Crystal Falls Parkway approximately 0.65 miles west of the intersection of

Crystal Falls Parkway and Ronald Reagan Blvd

CITY, STATE ZIP: Leander, Texas 78641

Wet Pond Maintenance Specifications

- 1. During site construction the sediment load to the forebay must be carefully monitored and the sediment shall be removed when 1/3 of the forebay volume is lost.
- 2. Upon completion of site revegetation, any sediment buildup in the forebay exceeding 5% loss of available volume shall be removed; and if sediment buildup in the main portion of the facility exceeds 10% of the available volume, the main body of the facility shall be maintained for sediment removal.
- 3. Every 3 months for the first 2 years of operation, the sediment forebay shall be checked and when sediment buildup exceeds 15% of the available volume, it shall be removed.
- 4. Every 3 months: (1) the turf areas (not native planting) around the pond shall be mowed; (2) accumulated paper, trash, and debris shall be removed; (3) Cattails, cottonwoods, and willows shall not be thinned out.
- 5. Annually, the basin shall be inspected for side slope erosion and deterioration or damage to structural elements. Any damage shall be repaired. Large areas with dead or missing vegetation shall be replanted.
- 6. After 2 years of operation, the sediment buildup in the forebay shall be checked every 3 years and sediment removed if more than 1/3 of the forebay volume is lost.
- 7. Every 6 years, the sediment buildup in the main pool shall be checked and sediment removed if more than 20% of the storage volume is lost.
- 8. Sediment from this facility must be transported for dewatering to an approved facility.
- 9. The wet pond is to be inspected twice a year and at least once during and immediately following wet weather for functionality. Inspection shall include check for subsidence, erosion, leakage, cracking, and tree growth. Overflow box, inlet pipes, and outlet pipes shall be checked for clogging and general condition. Walls shall be checked for stability.
- 10. Debris and litter shall be removed from the wet pond surface as part of any regular mowing operations and inspections.
- 11. Wet pond walls and structural elements shall be repaired in the event of any shifting, slumping, or damage.
- 12. Control of insects, weeds, odors, and algae will be implemented where required to prevent public nuisance concerns. The facility shall be evaluated semiannually for these items. Adequate stock of Gambusia Finis shall be maintained for insect control.
- 13. Vegetation shall be harvested periodically and the clippings removed to provide export of nutrients and prevent the basin from filling with decaying organic matter.
- 14. Record Keeping: Project superintendent shall have a log for entering site inspections for all regular rainfall events. Results of inspections, including damage and any recommended remedial actions, shall be noted along with inspection personnel data and date of completion of any action. The log shall be made available for review by TNRCC, if requested.

15. Proper disposal of accumulated silt and vegetative matter shall be accomplished following TNRCC and local authority guidelines and specifications.

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:	Pulte Homes of Texas		
Mailing Address:	12301B Riata Trace Pa	rkway, Bldg. 2	
City, State:	Austin, Texas	Zip: <u>78727</u>	
Telephone: //	(512),795-0170	FAX: <u>(512) 532-3342</u>	
from the	H	5/12/11	
Signature of Respon	sible Party	Date	

Inspection and Maintenance For BMPs

SAND FILTER SYSTEM

- Inspections. The BMP facilities must be inspected semi-annually (once during or immediately after wet weather) and repairs should be made if necessary.
- Sediment Removal. Remove sediment from inlet structure and sedimentation chamber at least annually, or when depth reaches 6 inches, or proper functioning is impaired; remove sediment from basin at least every 5 years.
- Media Replacement. More extensive maintenance of the filter media is required when the draw-down time begins to exceed the target time of 48 hours. When this occurs, the upper layer of sand should be removed and replaced with new material meeting the original specifications. Any discolored sand should also be removed and replaced. In filters that have been regularly maintained, this should be limited within the top 2 to 3 inches.
- Debris and Litter Removal. Accumulated paper, trash and debris should be removed during regular mowing operations and inspections, or as necessary.
- Filter Underdrain. Clean underdrain piping network to remove any sediment buildup as needed to maintain design drawdown time.
- Mowing. Grass areas in and around basins must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. When mowing is performed, a mulching mower should be used, or grass clippings should be caught and removed.

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

Personnel Responsible for Inspections

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

Inspection Schedule

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

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

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

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

- disturbed areas of the construction site that have not been finally stabilized;
- areas used for storage of materials that are exposed to precipitation;

storm event of two inches or greater.

- structural controls (for evidence of, or the potential for, pollutants entering the drainage system);
- sediment and erosion control measures identified in the SWP3 (to ensure they are operating correctly); and
- locations where vehicles enter or exit the site (for evidence of off-site sediment tracking).

Reductions in Inspection Frequency

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

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

Inspection Report Forms

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

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

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

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

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

Corrective Action

Personnel Responsible for Corrective Actions

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

Corrective Action Forms

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

Schedule of Interim and Permanent Soil Stabilization

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

- 1. Hydraulic Mulch and Seeding: Disturbed areas subject to erosion shall be stabilized with hydraulic mulch and/or seeded and watered to provide interim stabilization. For areas that are not to be sodded as per the project landscaping plan, a minimum of 85% vegetative cover will be established to provide permanent stabilization.
- 2. Sodding and Wood Mulch: As per the project landscaping plan, Sodding and wood mulch will be applied to landscaped areas to provide permanent stabilization prior to project completion.

Records of the following shall be maintained:

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

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

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

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

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

Maintenance

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

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

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

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



Inspector Qualifications Log*

Inspector Name:
Qualifications (Check as appropriate and provide description):
□ Training Course
□ Supervised Experience
□ Other
Inspector Name:
Qualifications (Check as appropriate and provide description):
□ Training Course
□ Supervised Experience
□ Other
Inspector Name:
Qualifications (Check as appropriate and provide description):
□ Training Course
□ Supervised Experience
□ Other
Inspector Name:
Qualifications (Check as appropriate and provide description):
□ Training Course
□ Supervised Experience
□ Other
In a series of the Manager
Inspector Name: Qualifications (Check as appropriate and provide description):
□ Training Course
□ Supervised Experience
□ Other
Inspector Name:
Qualifications (Check as appropriate and provide description):
□ Training Course
□ Supervised Experience
□ Other

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



Amendment Log

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



Construction Activity Sequence Log

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

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



Stormwater Control Installation and Removal Log

Stormwater Control	Location On-Site	Installation Date	Removal Date



Stabilization Activities Log

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

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



Inspection Frequency Log

Date	Frequency Schedule and Reason for Change



Rain Gauge Log

Date	Location of Rain Gauge	Gauge Reading				
	I .	ı				



General Information							
Name of Project			Trackir	ıg No.		Inspection Date	
Inspector Name, Titl Information	e & Contact						
Present Phase of Co	nstruction						
Inspection Location inspections are required location where this being conducted)	uired, specify						
Standard Freque Increased Freque Reduced Freque -	Inspection Frequency Standard Frequency:						
Was this inspection triggered by a 0.25" storm event? ☐ Yes ☐ No If yes, how did you determined whether a 0.25" storm event has occurred? ☐ Rain gauge on site ☐ Weather station representative of site. Specify weather station source: Total rainfall amount that triggered the inspection (in inches):							
Unsafe Conditions for Inspection Did you determine that any portion of your site was unsafe for inspection?							
- Location	- Location(s) where conditions were found:						



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



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



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



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

"Duly Authorized Representative":

Printed Name and Affiliation:



Section A – Initial Report (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action)						
Name of Project	Tracking No.			Today's Date		
Date Problem First Disco	overed		Time Problem Firs	t Discovered		
Name and Contact Inform	mation of Individual Completing this					
☐ A required stormwate ☐ The stormwater cont	gered the requirement to conduct corre er control was never installed, was insta rols that have been installed and mainta ge has occurred or is occurring	lled incorrectly	, or not in accordan fective enough for th	ce with the requirements in Part 2 ne discharge to meet applicable wa	and/or 3 ater quality standards	
Provide a description of	the problem:					
	corrective action (Enter date that is eith ork within the first 7 days, enter the da				the problem, or (2) if it is	
	completion falls after the 7-day deadlin d for making the new or modified storm				17 days, and (2) why the	
	Section (Complete this section no later than 7 ca		ctive Action Progre or discovering the condi			
Section B.1 – Why the	e Problem Occurred					
Cause(s) of Problem (Ad	d an additional sheet if necessary)		How This Was Det	ermined and the Date You Determ	nined the Cause	
1.			1.			
2.			2.			
3.			3.			
Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem						
List of Stormwater Contr Problem (Add an additio	rol Modification(s) Needed to Correct nal sheet if necessary)	Completion Date	SWPPP Update Necessary?	Notes		
1.			□Yes □No Date:			
2.			□Yes □No Date:			
3.			□Yes □No Date:			



Section A – Initial Report (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action)								
Name of Project				Today's Date				
Date Problem First Disco			Time Problem Firs	t Discovered				
Name and Contact Inform	nation of Individual Completing this							
☐ A required stormwater ☐ The stormwater contr	What site conditions triggered the requirement to conduct corrective action: A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3 The stormwater controls that have been installed and maintained are not effective enough for the discharge to meet applicable water quality standards A prohibited discharge has occurred or is occurring							
Provide a description of t	he problem:							
Deadline for completing of infeasible to complete wo	corrective action (Enter date that is early within the first 7 days, enter the d	ther: (1) no mo ate that is as so	re than 7 calendar d on as practicable fol	ays after the date you discovered the problem, lowing the 7th day):	or (2) if it is			
	completion falls after the 7-day deadl for making the new or modified stor			nfeasible to complete work within 7 days, and (2 onest practicable timeframe:	2) why the			
	Sect (Complete this section no later than 7		ctive Action Progr er discovering the cond					
Section B.1 – Why the	Problem Occurred							
Cause(s) of Problem (Add	l an additional sheet if necessary)		How This Was Det	ermined and the Date You Determined the Caus	se			
1.			1.					
2.			2.					
3.			3.					
Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem								
List of Stormwater Contro Problem (Add an addition	ol Modification(s) Needed to Correct nal sheet if necessary)	Completion Date	SWPPP Update Necessary?	Notes				
1.			□Yes □No Date:					
2.			☐Yes ☐No Date:					
3.			☐Yes ☐No Date:					

Contractor or Subcontractor Certification and Signature



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

PILOT-SCALE FIELD TESTING PLAN

(NOT APPLICABLE)

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

During construction, standard erosion measures will be used as shown in the construction plans. Runoff from the construction site will be contained by a silt fence until construction is complete. Entry and exit from the site will be through a stabilized construction entrance. The existing detention pond and vegetative filter strip will provide sedimentation during construction.

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

Kimley » Horn

SECTION 4: Additional Forms

Storm Water Pollution Prevention Plan

Agent Authorization Form

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

I	Venkat Gudapuri	
	Print Name	_
	Manager	,
	Title - Owner/President/Other	
of	VSprings Properties LLC	
	Corporation/Partnership/Entity Name	
have authorized	Michael Doggett, P.E.	
	Print Name of Agent/Engineer	
of	Kimley-Horn and Associates, Inc.	
	Print Name of Firm	

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

I also understand that:

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

SIGNATURE PAGE:

Applicant's Signature		04/12/2023 Date
Applicant's Signature		Date
THE STATE OF EXES §		
County of Williamson §		
BEFORE ME, the undersigned auth to me to be the person whose nam me that (s)he executed same for the GIVEN under my hand and seal of	ne is subscribed to the foregoing in e purpose and consideration therei	strument, and acknowledged to
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Poliston Mozoner NOTARY PUBLIC	
	Tali Sean McCaner Typed or Printed Name of Notary	<u>, </u>
	MY COMMISSION EXPIRES: 💆	0/18/2025

Application Fee Form

Regulated Entity Location: Name of Customer: <u>Velar Delay</u> Phone: <u>(512)-590-4165</u>	ted Entity: <u>Cold Springs Section</u> NEC Grand Lake Parkway & Overlopment Contact Person: Customer Reference Number (if issued): RN RN106	Crystal Falls Parkway Venkat Gudapuri f issued):CN	·
☐ Hays	☐ Travis	⊠ Will	iamson
San Antonio Regional Of	fice (3362)		
☐ Bexar ☐ Comal	☐ Medina ☐ Kinney	Uva	alde
Commission on Environn	paid by check, certified check nental Quality. Your canceled our fee payment. This paymen	check will serve as you	ur receipt. This form
Austin Regional Office Mailed to: TCEQ - Cash Revenues Section Mail Code 214 P.O. Box 13088 Austin, TX 78711-3088 Site Location (Check All		San Antonio Regional Overnight Delivery to: 12100 Park 35 Circle Building A, 3rd Floor Austin, TX 78753 (512)239-0357	
Recharge Zone		☐ Tra	nsition Zone
Тур	e of Plan	Size	Fee Due
Water Pollution Abaten Plan: One Single Family	nent Plan, Contributing Zone Residential Dwelling	Acres	\$
	nent Plan, Contributing Zone nily Residential and Parks	Acres	\$
Water Pollution Abaten Plan: Non-residential	nent Plan, Contributing Zone	3.86 Acres	\$4,000
Sewage Collection Syste	em	L.F.	\$
Lift Stations without sew	er lines	Acres	\$
Underground or Abovegi	ound Storage Tank Facility	Tanks	\$
Piping System(s)(only)		Each	\$
Exception		Each	\$
Extension of Time		Each	\$
Signature:	2.		

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150

Check Payable to the "Texas Commission on Environmental Quality"

Core Data Form



TCEQ Core Data Form

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

SECTION 1: General In	<u>rormation</u>				
1. Reason for Submission (If other is checke	d please describe in space provided.)				
New Permit, Registration or Authorization	n (Core Data Form should be submitted with	the program application.)			
Renewal (Core Data Form should be subm	itted with the renewal form)	⊠ Other			
2. Customer Reference Number (if issued) Follow this link to search 3. Regulated Entity Reference Number (if issued)					
for CN or RN numbers in Central Registry** RN 106157183					
SECTION II: Customer	<u>Information</u>				
4. General Customer Information	5. Effective Date for Customer Infor	mation Updates (mm/dd/yyyy)			
☐ New Customer	Jpdate to Customer Information	Change in Regulated Entity Ownership			
Change in Legal Name (Verifiable with the To	exas Secretary of State or Texas Comptrolle	r of Public Accounts)			
The Customer Name submitted here may	be updated automatically based on w	that is current and active with the Texas Secretary of State			

(SOS) or Texas Comptroller of Public Accounts (CPA). **6. Customer Legal Name** (If an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer below: **Previous Customer** VSprings Properties LLC 7. TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits) 9. Federal Tax ID 10. DUNS Number (if applicable) (9 digits) 0804071781 ☐ Individual Partnership: General Limited 11. Type of Customer: Government: City County Federal Local State Other ☐ Sole Proprietorship Other: 12. Number of Employees 13. Independently Owned and Operated? \boxtimes 0-20 \square 21-100 \square 101-250 \square 251-500 \square 501 and higher ☐ No 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following **⊠**Owner Owner & Operator ☐ Operator Other: Occupational Licensee Responsible Party 3109 Kenai Drive Suite 109 15. Mailing Address: City Cedar park State ZIP 78613 ZIP + 416. Country Mailing Information (if outside USA) 17. E-Mail Address (if applicable) vgudapuri@gmail.com 18. Telephone Number 19. Extension or Code 20. Fax Number (if applicable)

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(512) 590-4165	() -

SECTION III: Regulated Entity Information

21. General Regulated En	21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)												
☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information													
The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).													
22. Regulated Entity Nam	ie (Enter nam	ne of the site whe	re the	regulated action	ı is tak	king plad	ce.)						
Cold springs Sections Two-Six	(
23. Street Address of the Regulated Entity:	Southside o	of Crystal Falls Pa	rkway	approx. 0.65 mil	es we	st of int	ersect	ion of	Crystal	Falls Pkwy & Ro	onal Reaga	an	
(No PO Boxes)	City	Leander		State	ТХ		ZIP		7872	7	ZIP + 4	ļ	
24. County	Williamson												
		If no Stre	et Ad	ldress is provid	led, fi	ields 25	5-28 a	are re	quired	•			
25. Description to Physical Location:	SEC of Gran	d Lake Parkway a	and Cr	ystal falls parkwa	ау								
26. Nearest City									State		N	leai	rest ZIP Code
Leander									TX		7	864	1
Latitude/Longitude are re used to supply coordinate	-	-	-				ata Si	tanda	ırds. (G	eocoding of t	he Physi	cal .	Address may be
27. Latitude (N) In Decim	al:	30.567211						ide (V	V) In D	ecimal:	-97.8	122	36
Degrees	Minutes		Seco	onds		Degree				Minutes			Seconds
30		34		2			97	7		48			44
29. Primary SIC Code (4 digits)		Secondary SIC	Code	2		Primary r 6 digits	-	CS Co	de	(5 or 6 di	ondary N	AIC	S Code
5331					4	5511	0						
33. What is the Primary B	Business of t	this entity? (D	o not	repeat the SIC or	NAIC.	S descri _l	ption.))		•			
Retail, Restuarant													
34. Mailing	12301 B R	iata Trace Parkw	ay bui	ilding 2									
Address:		_				T.							
	City	Austin		State	тх		Z	IP	7872	7	ZIP+	4	
35. E-Mail Address:	N/A	<u> </u>											
36. Telephone Number	·		37	. Extension or (Code			38. F	ax Nun	nber (if applica	ble)		
(972) 304-2800													

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

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

40. Name:	Michael Doggett		41. Title:	Project Manager			
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail Address			
(469) 352-2959			() -	michael.doggett@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	Aanager			
Name (In Print):	Micheal Doggett				(469) 352- 2959
Signature:	Milliont			Date:	4/10/2023

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