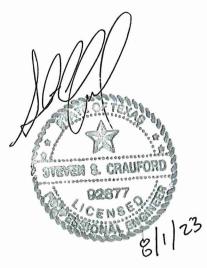
KISSING TREE PHASE 6E CONTRIBUTING ZONE PLAN MODIFICATION APPLICATION (50848-64)

Prepared By: PAPE-DAWSON CONSULTING ENGINEERS, LLC. Texas Board of Professional Engineers, Firm Registration # 470 10801 NORTH MOPAC EXPRESSWAY, BUILDING 3 – SUITE 200 AUSTIN, TEXAS 78759 (512) 454-8711



August 2023



Transportation | Water Resources | Land Development | Surveying | Environmental

KISSING TREE PHASE 6E CONTRIBUTING ZONE PLAN MODIFICATION APPLICATION (50848-64)

August 2023



Texas Commission on Environmental Quality Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Kissing Tree Phase 6E				2. Regulated Entity No.: 111587382				
3. Customer Name: Carma Paso Robles, LLC			4. Customer No.: 603437310			7310		
5. Project Type: (Please circle/check one)	New	Modif	icatior	\mathbf{D}	Exter	nsion	Exception	
6. Plan Type: (Please circle/check one)	WPAP CZP	scs	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-r	residen	tial	8. Site		e (acres):	32.63
9. Application Fee:	\$6,500	10. P	10. Permanent BMP(s):			s):	1 Water Quality Pond	
11. SCS (Linear Ft.):	N/A	12. AST/UST (No. Tanks			nks):	N/A		
13. County:	Hays	14. W	aters	hed:			Cottonwood Creek, Willow Springs Creek	

Application Distribution

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

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

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

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

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

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

Steven S. Crauford, P.E.

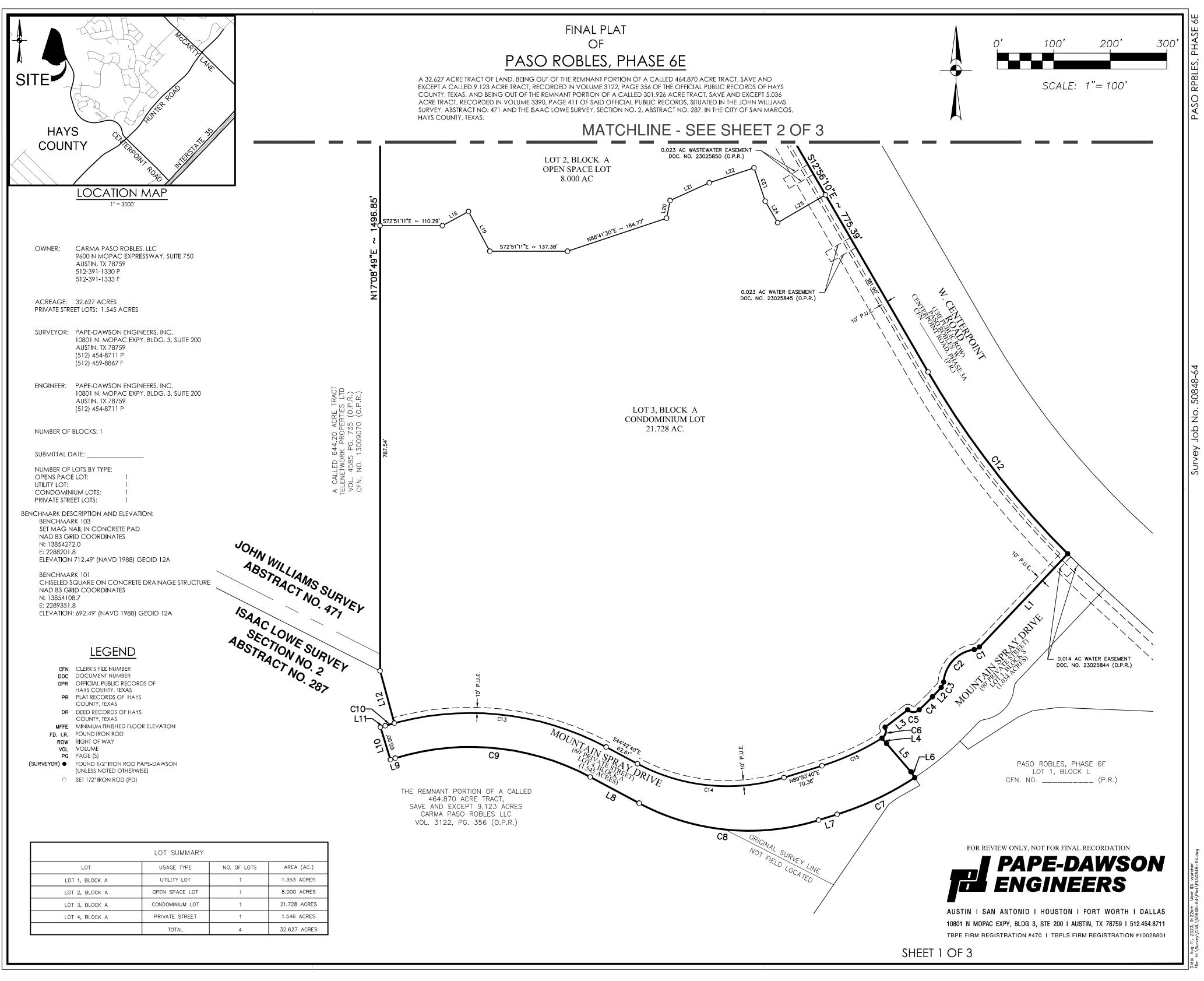
Print Name of Customer/Authorized Agent Signature of Customer/Authorized Agent

8/1/23

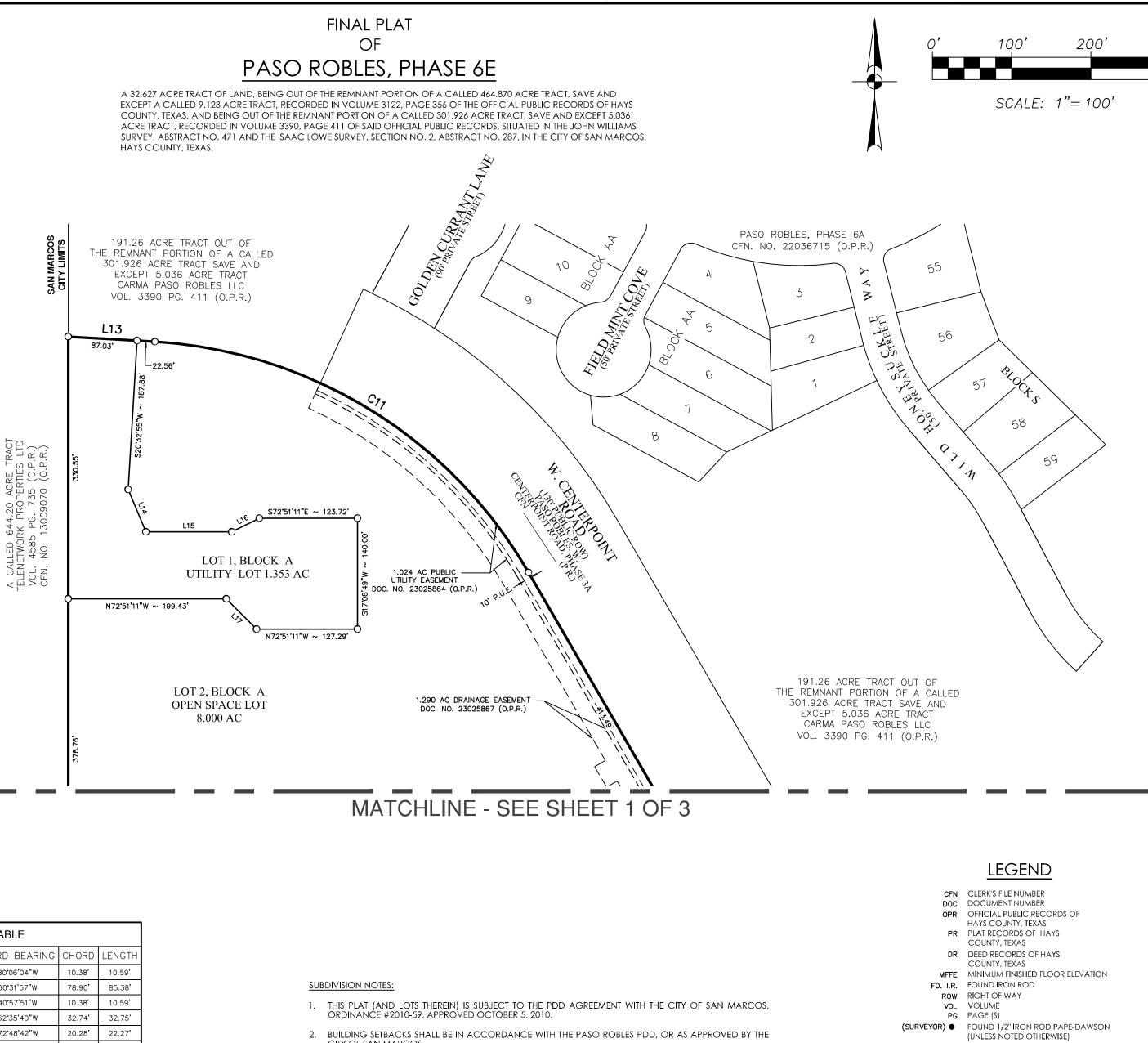
Date

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

LEGAL BOUNDARY



LOT SUMMARY						
USAGE TYPE	NO. OF LOTS	AREA (AC.)				
UTILITY LOT	1	1.353 ACRES				
OPEN SPACE LOT	1	8.000 ACRES				
CONDOMINIUM LOT	1	21.728 ACRES				
PRIVATE STREET	1	1.546 ACRES				
TOTAL	4	32.627 ACRES				
	USAGE TYPE UTILITY LOT OPEN SPACE LOT CONDOMINIUM LOT PRIVATE STREET	USAGE TYPE NO. OF LOTS UTILITY LOT 1 OPEN SPACE LOT 1 CONDOMINIUM LOT 1 PRIVATE STREET 1				



l	LINE TABLE				
LINE #	BEARING	LENGTH			
L1	S60*31'57"W	226.98'			
L2	S60*31'57"W	22.90'			
L3	S69*52'20"W	50.47'			
L4	S23*15'10"E	12.63'			
L5	S23*32'12"E	65.62'			
L6	S16 ° 10'04"E	12.50'			
L7	S89°50'40"W	34.33'			
L8	N44 · 42'40"W	98.22'			
L9	S90°00'00"W	9.01'			
L10	N00*00'00"E	60.00'			
L11	N90°00'00"E	9.01'			
L12	N01*52'16"E	95.76'			
L13	S69 ° 27'05"E	109.59'			
L14	S05°21'11"E	57.95'			
L15	S72°51'11"E	108.51'			
L16	N80°34'55"E	38.97'			
L17	N27 ' 51'11"W	54.13'			
L18	N78*53'40"E	52.45'			
L19	S11*06'20"E	79.63'			
L20	N28 · 39'39"E	31.77'			
L21	N82*45'44"E	76.05'			
L22	N88*41'30"E	83.62'			
L23	S01°18'30"E	62.26'			
L24	S12*56'10"E	43.81'			
L25	N77 ' 03'50"E	97.90'			

CURVE TABLE						
CURVE #	RADIUS	DELTA	CHORD BEARING	CHORD	LENGTH	
C1	15.50'	039*08'13"	S80*06'04"W	10.38'	10.59'	
C2	62.50'	078•16'25"	S60*31'57"W	78.90'	85.38'	
C3	15.50'	039*08'13"	S40*57'51"W	10.38'	10.59'	
C4	455.00'	004 ' 07'25"	S62*35'40"W	32.74'	32.75'	
C5	15.00'	085'03'50"	N72*48'42"W	20.28'	22.27'	
C6	15.00'	085'03'50"	S32*33'22"W	20.28'	22.27'	
C7	545.00'	016 ° 00'45"	S81*50'18"W	151.82'	152.31'	
C8	412.75'	045 · 26'40"	N67*26'00"W	318.86'	327.37'	
C9	450.00'	045 ' 17'20"	N67 * 21'20"W	346.51'	355.70'	
C10	510.00'	001*52'32"	S89*03'44"E	16.69'	16.69'	
C11	585.00'	056'30'55"	S41°11'37"E	553.92'	577.03 '	
C12	1565.00'	014 * 53'01"	S20°22'40"E	405.39'	406.54'	
C13	510.00'	045*17'20"	S67 ° 21'20 " E	392.71'	403.12'	
C14	337.25'	045 ' 26'40"	S67*26'00"E	260.53'	267.49'	
C15	455.00'	014•45'23"	N82*27'59"E	116.86'	117.18'	

2. BUILDING SETBACKS SHALL BE IN ACCORDANCE WITH THE PASO ROBLES PDD, OR AS APPROVED BY THE

CITY OF SAN MARCOS.

3. THIS SUBDIVISION LIES WITHIN THE BOUNDARIES OF THE EDWARDS AQUIFER CONTRIBUTING AND TRANSITION ZONES.

4. EASEMENTS NOT WITHIN THE LIMITS OF THE PLAT WILL BE PROVIDED BY SEPARATE INSTRUMENT.

5. ALL PROPERTY OWNERS FRONTING ONTO A PRIVATE STREET WILL BE ASSESSED ADDITIONAL HOA FEES FOR

STREET MAINTENANCE AND REPAIRS. 6. NO PORTION OF THIS TRACT IS ENCROACHED BY ANY SPECIAL FLOOD HAZARD AREAS INUNDATED BY THE 1% ANNUAL CHANCE FLOODPLAIN AS INDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP (FLOOD INSURANCE RATE MAP) COMMUNITY PANEL NUMBER 48209C0478F

EFFECTIVE DATE SEPTEMBER 2, 2005, FOR HAYS COUNTY, TEXAS. 7. A 10 FOOT WIDE PUBLIC UTILITY EASEMENT IS HEREBY DEDICATED ADJACENT TO ALL RIGHTS-OF-WAY AND

PRIVATE STREET LOTS.

8. USE OF PUBLIC UTILITY EASEMENTS BY FRANCHISE UTILITIES SHALL BE APPROVED BY THE HOMEOWNER'S ASSOCIATION.

9. RESIDENTIAL DENSITY OF LOT 3, BLOCK A SHALL NOT EXCEED 12 UNITS PER ACRE.

10. SIDEWALKS SHALL BE IN ACCORDANCE WITH THE APPROVED PASO ROBLES PDD.



FOR REVIEW ONLY, NOT FOR FINAL RECORDATION

PAPE-DAWSON

SET 1/2" IRON ROD (PD)

AUSTIN | SAN ANTONIO I HOUSTON I FORT WORTH I DALLAS 10801 N MOPAC EXPY, BLDG 3, STE 200 I AUSTIN, TX 78759 I 512.454.8711 TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028801

SHEET 2 OF 3

6E

PASO RPBLES, PHASE

Survey Job No. 50848-64

300

FINAL PLAT OF PASO ROBLES, PHASE 6E

A 32.627 ACRE TRACT OF LAND, BEING OUT OF THE REMNANT PORTION OF A CALLED 464.870 ACRE TRACT, SAVE AND EXCEPT A CALLED 9.123 ACRE TRACT, RECORDED IN VOLUME 3122, PAGE 356 OF THE OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS, AND BEING OUT OF THE REMNANT PORTION OF A CALLED 301.926 ACRE TRACT, SAVE AND EXCEPT 5.036 ACRE TRACT, RECORDED IN VOLUME 3390, PAGE 411 OF SAID OFFICIAL PUBLIC RECORDS, SITUATED IN THE JOHN WILLIAMS SURVEY, ABSTRACT NO. 471 AND THE ISAAC LOWE SURVEY, SECTION NO. 2, ABSTRACT NO. 287, IN THE CITY OF SAN MARCOS, HAYS COUNTY, TEXAS.

THE STATE OF TEXAS § COUNTY OF TRAVIS §

THAT I, STEVEN S. CRAUFORD, DO HEREBY CERTIFY THAT PROPER ENGINEERING HAS BEEN GIVEN THIS PLAT TO THE MATTERS OF STREETS, LOTS AND DRAINAGE LAYOUT. TO THE BEST OF MY KNOWLEDGE THIS PLAT CONFORMS TO ALL REQUIREMENTS OF THE DEVELOPMENT CODE.

DATE

STEVEN S. CRAUFORD REGISTERED PROFESSIONAL ENGINEER NO. 92677 STATE OF TEXAS PAPE-DAWSON ENGINEERS, INC. TBPE, FIRM REGISTRATION NO. 470 TBPLS, FIRM REGISTRATION NO. 10028801 10801 N MOPAC EXPY. BLDG. 3, SUITE 200 AUSTIN, TEXAS, 78759

COUNTY OF TRAVIS §

THE STATE OF TEXAS §

STATE OF TEXAS §

COUNTY OF TRAVIS §

GRANTED AND NOT RELEASED.

CHAD MATHESON, C.F.O.

CARMA PASO ROBLES, LLC

BEFORE ME, THE UNDERSIGNED AUTHORITY ON THIS DAY PERSONALLY APPEARED ____ __, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND HE/SHE ACKNOWLEDGED TO ME THAT HE/SHE EXECUTED THE SAME FOR THE PURPOSE AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED. GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS DAY OF , A.D 20____.

THAT CARMA PASO ROBLES, LLC, AS THE OWNER OF A CALLED 464.870 ACRE TRACT, RECORDED IN VOL. 3122, PAGE

356 OF THE OFFICIAL PUBLIC RECORDS OF HAYS COUNTY, TEXAS, AND A CALLED 301.926 ACRE TRACT, RECORDED IN

VOLUME 3390, PAGE 411 OF SAID OFFICIAL PUBLIC RECORDS, SITUATED IN THE JOHN WILLIAMS SURVEY, ABSTRACT 471,

AND IN THE ISAAC LOWE SURVEY, SECTION NO. 2, ABSTRACT NO. 287, IN THE CITY OF SAN MARCOS, HAYS COUNTY, TEXAS, DO HEREBY SUBDIVIDE SAID 464.870 ACRE TRACT AND SAID 301.926 ACRE TRACT OF LAND, PURSUANT TO PUBLIC NOTIFICATION AND HEARING PROVISIONS OF CHAPTER 212 OF THE TEXAS LOCAL GOVERNMENT CODE, IN ACCORDANCE WITH THIS PLAT, TO BE KNOWN AS PASO ROBLES, PHASE 6E, AND DO HEREBY DEDICATE TO THE PUBLIC

THE USE OF THE EASEMENTS SHOWN HEREON SUBJECT TO ANY EASEMENTS, COVENANTS OR RESTRICTIONS HERETOFORE

NOTARY PUBLIC, STATE OF TEXAS

PRINTED NOTARY'S NAME MY COMMISSION EXPIRES:

THE STATE OF TEXAS § COUNTY OF TRAVIS §

MY SUPERVISION.

PARKER J. GRAHAM REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5556 STATE OF TEXAS PAPE-DAWSON ENGINEERS, INC. TBPE, FIRM REGISTRATION NO. 470 TBPLS, FIRM REGISTRATION NO. 10028801 10801 N MOPAC EXPY. BLDG. 3, SUITE 200 AUSTIN, TEXAS, 78759

PASO RPBLES, PHASE

_, 20___ BY THE

DATE

DATE

DATE

DATE

<u>6</u>Е

Survey Job No. 50848-64

I, PARKER J. GRAHAM, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING, AND HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION AND THAT THE MONUMENTS WERE PROPERLY PLACED UNDER

THE STATE OF TEXAS § COUNTY OF HAYS §

CITY OF SAN MARCOS

SHANNON MATTINGLY

RECORDING SECRETARY

CIP AND ENGINEERING

DIRECTOR OF DEVELOPMENT SERVICES

CERTIFICATE OF APPROVAL

APPROVED AND AUTHORIZED TO BE RECORDED ON THE _____ DAY OF ____

CHAIRMAN, PLANNING AND ZONING COMMISSION

PLANNING AND DEVELOPMENT SERVICES OF THE CITY OF SAN MARCOS, TEXAS.

I, ELAINE H. CÁRDENAS, COUNTY CLERK OF HAYS COUNTY, TEXAS, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT OF WRITING, WITH ITS CERTIFICATE OF AUTHENTICATION WAS FILED FOR RECORD IN MY OFFICE ON THE __DAY OF_____, 20___, A.D., AT ____O'CLOCK ___M. AND DULY RECORDED ON THE __DAY OF _____, 20___, A.D., AT ___O'CLOCK ___M. IN THE PLAT RECORDS OF HAYS COUNTY, TEXAS IN CFN:

WITNESS MY HAND AND SEAL OF OFFICE OF THE COUNTY CLERK OF SAID COUNTY THE ____DAY OF ___, 20___, A.D.

ELAINE H. CÁRDENAS, COUNTY CLERK HAYS COUNTY, TEXAS

DATE

SHEET 3 OF 3

FOR REVIEW ONLY, NOT FOR FINAL RECORDATION **PAPE-DAWSON**



AUSTIN | SAN ANTONIO I HOUSTON I FORT WORTH I DALLAS 10801 N MOPAC EXPY, BLDG 3, STE 200 I AUSTIN, TX 78759 I 512.454.8711 TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028801

MODIFICATION TO A PREVIOUSLY APPROVED APPLICATION

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: Steven Crauford, P.E.

Date: 8 / / / 2023

Signature of Customer/Agent:

Project Information

- Current Regulated Entity Name: <u>Kissing Tree Phase 6E</u>
 Original Regulated Entity Name: <u>Kissing Tree Phase 6E</u>
 Assigned Regulated Entity Number(s) (RN): <u>111587382</u>
 Edwards Aquifer Protection Program ID Number(s): <u>11003304</u>
 The applicant has not changed and the Customer Number (CN) is: <u>603437310</u>
 The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
- 2. X Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached.
- 3. A modification of a previously approved plan is requested for (check all that apply):

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	Proposed Modification
Summary		
Acres	<u>33.571</u>	<u>32.63</u>
Type of Development	Single-Family Residential	Multi-Family Residential
Number of Residential	<u>75</u>	<u>78</u>
Lots		
Impervious Cover (acres)	<u>10.36</u>	<u>10.56</u>
Impervious Cover (%)	<u>30.86 %</u>	<u>32.36 %</u>
Permanent BMPs	<u>5</u>	<u>4</u>
Other		
AST Modification	Approved Project	Proposed Modification
Summary		
Number of ASTs		
Other		
UST Modification	Approved Project	Proposed Modification
Summary		
Number of USTs		
Other		

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

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

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

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

ATTACHMENT A - ORIGINAL TCEQ APPROVAL LETTER



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 23, 2022

Mr. Chad Matheson Carma Paso Robles, LLC 9600 N Mopac Expressway, Ste 750 Austin, Texas 78759

Re: Edwards Aquifer, Hays County

NAME OF PROJECT: Kissing Tree Phase 6E; Located North of Blushing Aster Dr. and Centerpoint Rd.; San Marcos, Texas

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

Regulated Entity No. RN111587382; Additional ID No. 11003304

Dear Mr. Matheson:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP application for the above-referenced project submitted to the Austin Regional Office by Pape-Dawson Engineers, Inc. on behalf of Carma Paso Robles, LLC on October 11, 2022. Final review of the CZP was completed after additional material was received on December 15, 2022. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

PROJECT DESCRIPTION

The proposed residential project will have an area of approximately 33.571 acres. It will include clearing, grading, excavation, installation of drainage improvements, and 75 single family units with associated driveways, roads, sidewalks, and utilities. The impervious cover will be 10.36 acres (30.86 percent). Project wastewater will be disposed of by conveyance to the existing San Marcos Water Recycling Center owned by the City of San Marcos.

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

Mr. Chad Matheson Page 2 December 23, 2022

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, two existing batch detention basins (Pond 5.3 and Pond 7.13, 11002734), one new batch detention basin (Pond 7.15), and two engineered vegetative filter strips, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 9,299 pounds of TSS generated from the 10.36 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

SPECIAL CONDITIONS

- I. All permanent pollution abatement measures shall be operational prior to first occupancy of the homes within their respective drainage areas.
- II. All sediment and/or media removed from the water quality basins during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.
- III. Since this site is located in the area defined as the Contributing Zone within the Transition Zone, §213.5(f), relating to Edwards Aquifer Notifications, is still applicable. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the Austin Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.

STANDARD CONDITIONS

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

Prior to Commencement of Construction:

- 4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated

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> activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.

7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

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

After Completion of Construction:

- 14. Owners of permanent BMPs and measures must insure that the BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the <<u>Austin/San Antonio</u>> Regional Office within 30 days of site completion.
- 15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of

Mr. Chad Matheson Page 4 December 23, 2022

the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

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

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

Sincerely, illian Buth

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

LIB/jv

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

cc: Mr. Steven Crauford, P.E., Pape-Dawson Engineers, Inc.

ATTACHMENT B - NARRATIVE OF PROPOSED MODIFICATION

PROJECT NARRATIVE

Kissing Tree Phase 6E is located approximately 1,600 LF North of the Blushing Aster Drive and W. Centerpoint Road intersection, within the city limits of San Marcos in Hays County, Texas. The 32.63-acre project limits are located over the Edwards Aquifer Contributing and Transition Zones. Kissing Tree Phase 6E is a proposed multi-family residential development. The site is undeveloped. Since the project is located entirely over the Edwards Aquifer Contributing and Transition Zones, a Geologic Assessment is not required by 30 TAC 213 regulations.

Kissing Tree Phase 6E is within the Paso Robles Planned Development District within the city limits of San Marcos. Under this zoning ordinance, Kissing Tree Phase 6E is required to treat to a Total Suspended Solids (TSS) removal of 85% within the Edwards Aquifer Recharge and Contributing Zones as opposed to the normal 80% TSS removal within the Edwards Aquifer Recharge and Contributing Zones as required by the TCEQ. Therefore, permanent BMPs and associated sizing calculations have been adjusted to remove the required 85% TSS as required by the Paso Robles Planned Development District.

Construction activities proposed within the Kissing Tree Phase 6E CZP include clearing, grading, excavation, installation of drainage improvements, streets, seventy-eight (78) cottage units with associated driveways, and one (1) batch detention basin. Kissing Tree Phase 6E consists of approximately 32.63-acres with 10.56-acres of proposed impervious cover. This impervious cover value includes the small portion of future roadway extension draining to Batch Detention Basin 7.15, as shown on the Water Quality Treatment Summary Sheets. There is no existing impervious cover on site.

Two (2) existing batch detention ponds, one (1) proposed batch detention pond, and one (1) engineered vegetative filter strip are proposed as the Permanent Best Management Practices (PBMPs) for this site. There is no offsite area that drains onto the project site. All PBMPs have been designed in accordance with the TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) to remove 85% of the increase in TSS from the site.

Batch Detention Pond 5.3 and 7.13 were designed and permitted with Kissing Tree W. Centerpoint Road Phase 3A. These batch detention ponds (Batch Detention Pond 5.3 and 7.13) are earthen ponds with sideslopes at 3:1 with the exception of the maintenance access which is at 4:1 slopes. Batch Detention Pond 5.3 treats 2.12-acres from the 32.63-acre project limits and Batch Detention Pond 7-13 treats 2.08 acres from the 32.63-acre project limits. The 4.20-acres of impervious cover within the contributing zone is treated to 85% TSS removal under the requirements of TAC 213.3(31).

The batch detention pond (Batch Detention Pond 7.15) that is proposed with this phase is an earthen pond with side slopes at 3:1 with the exception of maintenance access which is at a 4:1 slope. This batch detention pond treats 5.86-acres from the 32.63-acre project limits. This impervious cover value includes the small portion of future roadway extension draining to Batch Detention Basin 7.15, as shown on the Water Quality Treatment Summary Sheets. The 5.08-acres of impervious cover within the contributing zone is treated to 85% TSS removal under the requirements of TAC 213.3(31). The 0.55-acres of impervious cover within the transition zone is treated to 70% TSS removal.

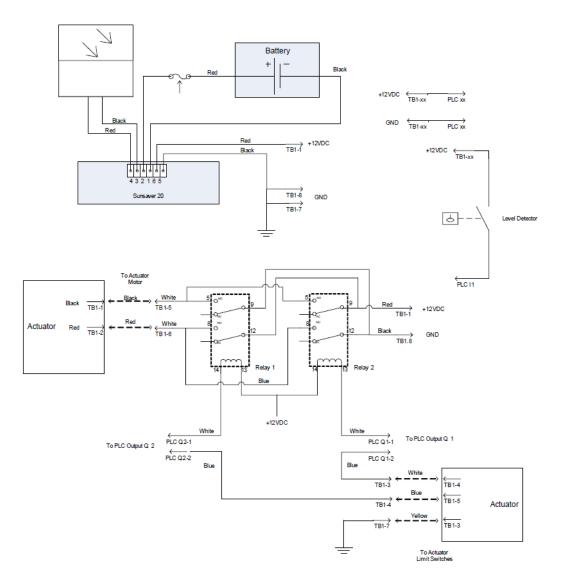
The engineered vegetative filter strip "1" treats the remaining 0.50 acres of impervious cover from the 32.63-acre project limits.

Batch Detention Pond Controller Information				
Component Description				
Power System	Solar Charged 12 VDC Battery (Model MK Powered 8GU1) (Or approved equal)			
Logic Controller	IDEC FL1C-H12RCE (Or approved equal)	12		
Parts Enclosure	Southwest Photovoltaic Model BBG-1 (15.75" wide x 9.75" deep x 11.75" tall) (Or approved equal)			
Nature of Event Sensing	Anchor Scientific Float Switch (Or approved equal)			
Valve Type	Keystone 3" Butterfly Valve with over torque sensors and mechanical hand crank for physical override if necessary. Able to withstand 100 psi minimum. (Or approved equal)			

The following is a summary of the batch detention pond controller components:

Actuator	EPI-6 12 VDC. Able to withstand 100 psi minimum. (Or approved equal)	12
Power Consumption (actuator, controller, relay, PLC)	242.58 W, 46.5 W-hours	

The following is a circuit diagram of the controller:





The logic controller will provide a test sequence. The system will be solar powered and will be equipped with a backup battery. The system will be equipped with an on/off/reset switch. The butterfly valve will be equipped with a manual hand crank for physical override if necessary in the event of a spill or for maintenance purposes. The system will be equipped with a clearly visible external indicator to indicate if a cycle is in progress without having to open the parts enclosure.

The logic controller cycle overview is as follows:

- Case 1: A single rain event fills the batch detention basin. The basin holds the diverted storm water for the detention time and the releases the water. Once the batch detention basin is empty, a delay of 2 hours is started to allow the basin to completely drain, and then a close signal is sent to the actuator to close the valve.
- Case 2: A single rain event occurs, but does not completely fill the batch detention basin. The basin holds the water for the detention period, and then releases it. Once the batch detention basin is empty, a delay of 2 hours is started to allow the basin to completely drain, and then a close signal is sent to the actuator to close the valve.
- Case 3: A single rain event fills the batch detention basin under the trip point of the level sensor. The level sensor does not trip. The captured water is held until it infiltrates / evaporates or is joined by storm water from a subsequent storm.
- Case 4: Begins the same as Case 1. During the drawdown period, one or more additional rain events occur causing additional water to enter the batch detention basin. The valve remains open and the additional water volume is drained. Once the batch detention basin is empty, a delay of 2 hours is started to allow the basin to completely drain, and then a close signal is sent to the actuator to close the valve.

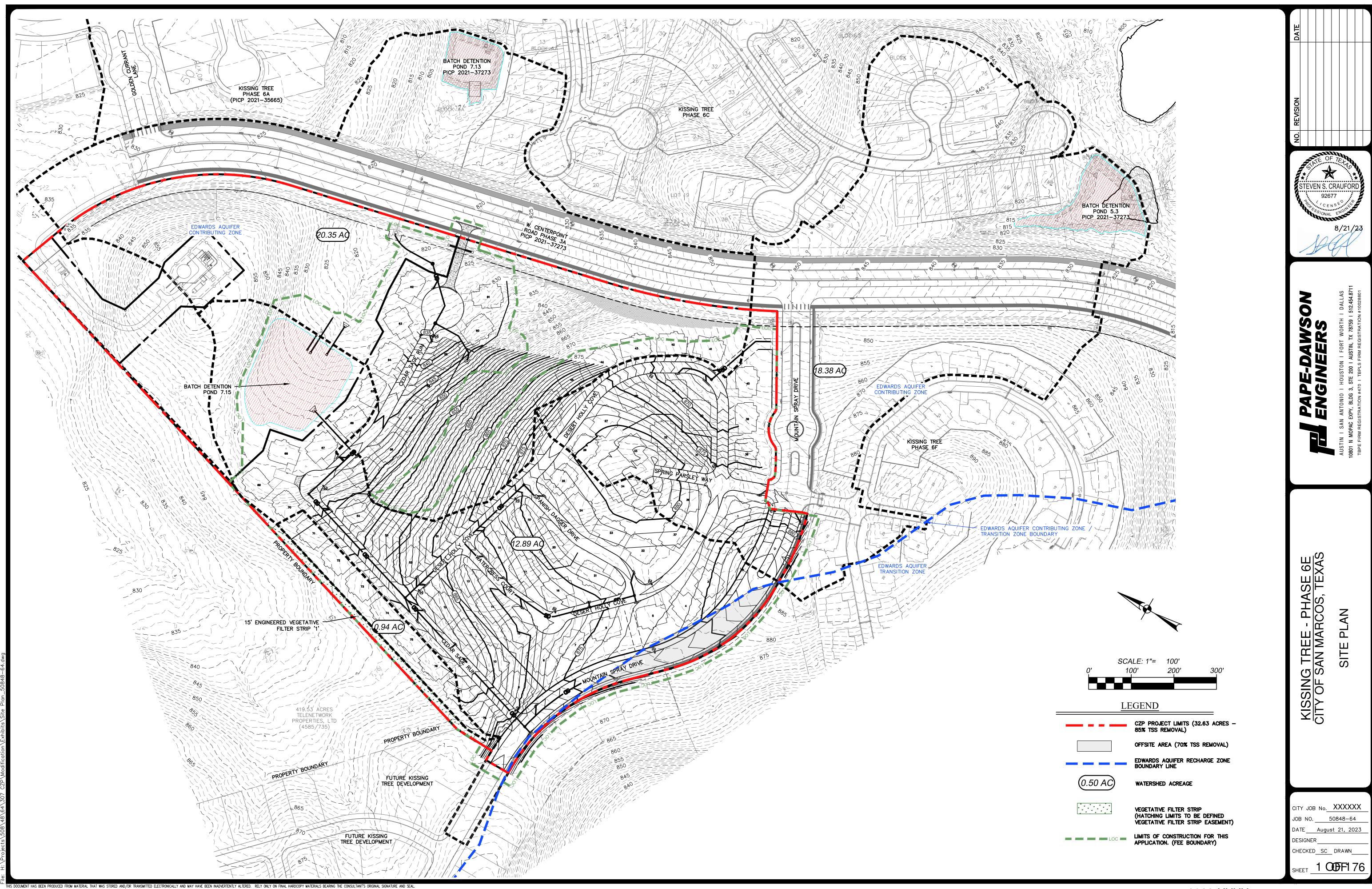
Case 5: Begins the same as Case 2. During the drawdown period, one or more additional rain events can occur causing additional water to enter the basin. The valve remains open and the additional water volume is drained. Once the batch detention basin is empty, a delay of 2 hours is started to allow the basin to completely drain, and then a close signal is sent to the actuator to close the valve.

Safety Precautions:

The system will be equipped with an alarm system that is clearly visible to indicate a system malfunction. A sign shall be posted with phone numbers of the owner and appropriate TCEQ regional office.



ATTACHMENT C - CURRENT SITE PLAN OF THE APPROVED PROJECT



2023-XXXX

CZP 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: Steven Crauford, P.E.

Date: 8/ / /2023

Signature of Customer/Agent:

Regulated Entity Name: Kissing Tree Phase 6E

Project Information

- 1. County: <u>Hays</u>
- 2. Stream Basin: Cottonwood Creek, Willow Springs Creek
- 3. Groundwater Conservation District (if applicable): Edwards Aquifer Authority
- 4. Customer (Applicant):

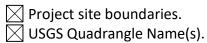
Contact Person: <u>Chad Matheson</u> Entity: <u>Carma Paso Robles, LLC</u> Mailing Address: <u>9600 N. Mopac Expressway, Suite 750</u> City, State: <u>Austin, TX</u> Zip: <u>78759</u> Telephone: <u>(512) 391-1330</u> Fax: <u>N/A</u> Email Address: <u>chad.matheson@brookfieldpropertiesdevelopment.com</u>

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5. Agent/Representative (If any):

Contact Person: <u>Steven Crauford, P.E.</u> Entity: <u>Pape-Dawson Engineers, Inc.</u> Mailing Address: <u>10801 N Mopac Expy., Bldg 3, Suite 200</u> City, State: <u>Austin, TX</u> Zip: <u>78759</u> Telephone: <u>(512) 454-8711</u> Fax: <u>(512) 459-8867</u> Email Address: <u>scrauford@pape-dawson.com</u>

- 6. Project Location:
 - The project site is located inside the city limits of <u>San Marcos, Texas</u>.
 - The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
 - The project site is not located within any city's limits or ETJ.
- 7. The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.
 - From TCEQ's Austin Office, travel approximately 1 mile southeast on Park 35 Circle to I-35 South. Travel South on I-35 South approximately 42.8 miles to exit #200 towards I-35 Frontage Road in San Marcos. Exit I-35 South and travel approximately 0.6 miles on the frontage road and turn right on Centerpoint Road. Travel approximately 0.6 miles on Centerpoint Road. The Kissing Tree Subdivision is located west of the intersection of Centerpoint Road and Hunter Road. Travel 0.3 miles on W Centerpoint Road.
- 8. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.
- 9. Attachment B USGS Quadrangle Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:



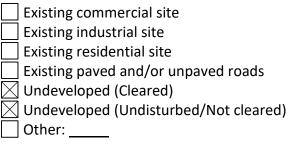
10. Attachment C - Project Narrative. A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

Area of the site
 Offsite areas
 Impervious cover
 Permanent BMP(s)
 Proposed site use
 Site history
 Previous development

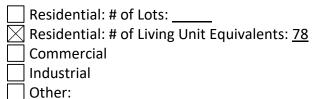
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Area(s) to be demolished

11. Existing project site conditions are noted below:



12. The type of project is:



13. Total project area (size of site): 32.63 Acres

Total disturbed area: 23.22 Acres

- 14. Estimated projected population: <u>164</u>
- 15. The amount and type of impervious cover expected after construction is complete is shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	263,538	÷ 43,560 =	6.05
Parking	29,621	÷ 43,560 =	0.68
Other paved surfaces	166,835	÷ 43,560 =	3.83
Total Impervious Cover	459994	÷ 43,560 =	10.56

Table 1 - Impervious Cover

Total Impervious Cover <u>10.56</u> ÷ Total Acreage <u>32.63</u> X **100** = <u>32.36</u>% Impervious Cover

16. Attachment D - Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. 🔀 Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

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

🛛 N/A

18. Type of project:

-	
	 TXDOT road project. County road or roads built to county specifications. City thoroughfare or roads to be dedicated to a municipality. Street or road providing access to private driveways.
19.	. Type of pavement or road surface to be used:
	 Concrete Asphaltic concrete pavement Other:
20.	. Right of Way (R.O.W.):
	Length of R.O.W.: feet. Width of R.O.W.: feet. L x W = Ft ² ÷ 43,560 Ft ² /Acre = acres.
21.	. Pavement Area:
	Length of pavement area: feet. Width of pavement area: feet. L x W = Ft ² \div 43,560 Ft ² /Acre = acres. Pavement area acres \div R.O.W. area acres x 100 =% impervious cover.
22.	. A rest stop will be included in this project.
	A rest stop will not be included in this project.
23.	Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

🛛 N/A

26. Wastewater will be disposed of by:

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

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

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

Sewage Collection System (Sewer Lines):

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

Existing.

□ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1			
2			
3			

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
4			
5			

Total x 1.5 = ____ Gallons

- 28. The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.
 - Attachment G Alternative Secondary Containment Methods. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

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

Table 3 - Secondary Containment

Length (L)(Ft.)	Width(W)(Ft.)	Height (H)(Ft.)	L x W x H = (Ft3)	Gallons

Total: _____ Gallons

30. Piping:

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

The piping will be aboveground

The piping will be underground

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

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

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

- Tanks clearly labeled
-] Piping clearly labeled

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Dispenser clearly labeled

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



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

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

Site Plan Requirements

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

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

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Site Plan Scale: 1" = 100'.
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- 35. 100-year floodplain boundaries:
 - Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

 \times 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): Federal Emergency Management Administration Flood Hazard Boundary Map for Hays County, Community Panel Number 48209C0457F, effective date September 2, 2005.

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

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

- 37. \square A drainage plan showing all paths of drainage from the site to surface streams.
- 38. X The drainage patterns and approximate slopes anticipated after major grading activities.
- 39. \square Areas of soil disturbance and areas which will not be disturbed.
- 40. 🖂 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 41. 🛛 Locations where soil stabilization practices are expected to occur.

- 42. □ Surface waters (including wetlands).□ N/A
- 43. Locations where stormwater discharges to surface water.

There will be no discharges to surface water.

- 44. Temporary aboveground storage tank facilities.
 - Temporary aboveground storage tank facilities will not be located on this site.
- 45. Permanent aboveground storage tank facilities.
 - Permanent aboveground storage tank facilities will not be located on this site.
- 46. \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.
 - 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

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whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

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

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

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

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

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

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

52. X Attachment J - BMPs for Upgradient Stormwater.

A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.

No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.

Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. X Attachment K - BMPs for On-site Stormwater.

A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.

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

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54. X Attachment L - BMPs for Surface Streams.	A description of the BMPs and measures
that prevent pollutants from entering surfa-	ce streams is attached.

🗌 N/A

55. Attachment M - Construction Plans. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

🗌 N/A

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

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

Signed by the owner or responsible party

Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.

Contains a discussion of record keeping procedures

N/A

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

🛛 N/A

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

N/A

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

59. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an

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

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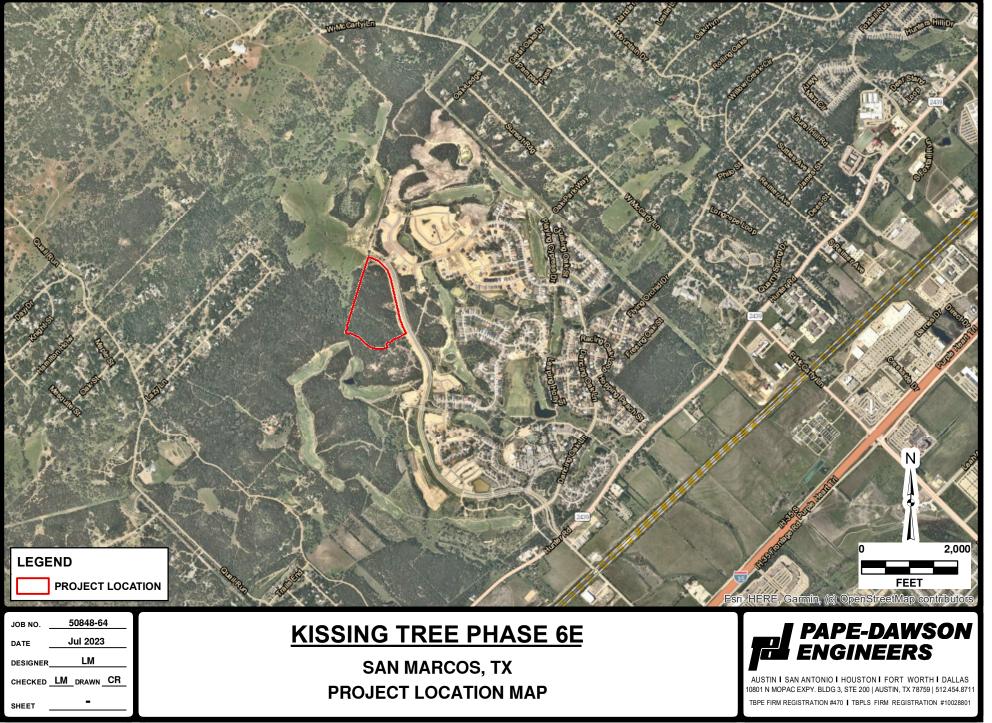
owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

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.

ATTACHMENT A



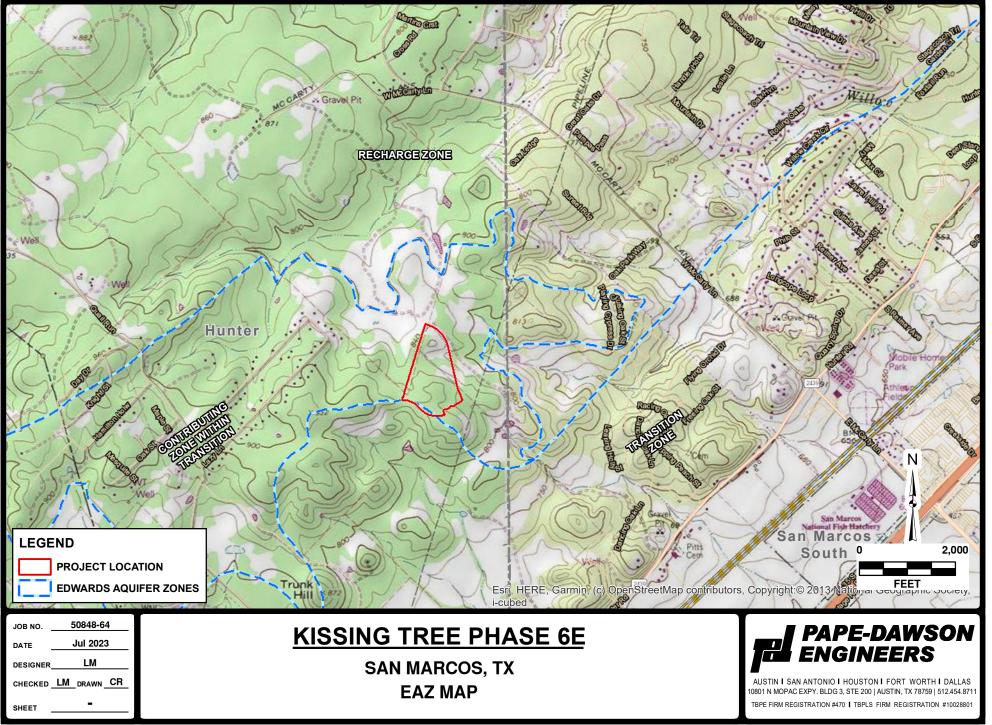
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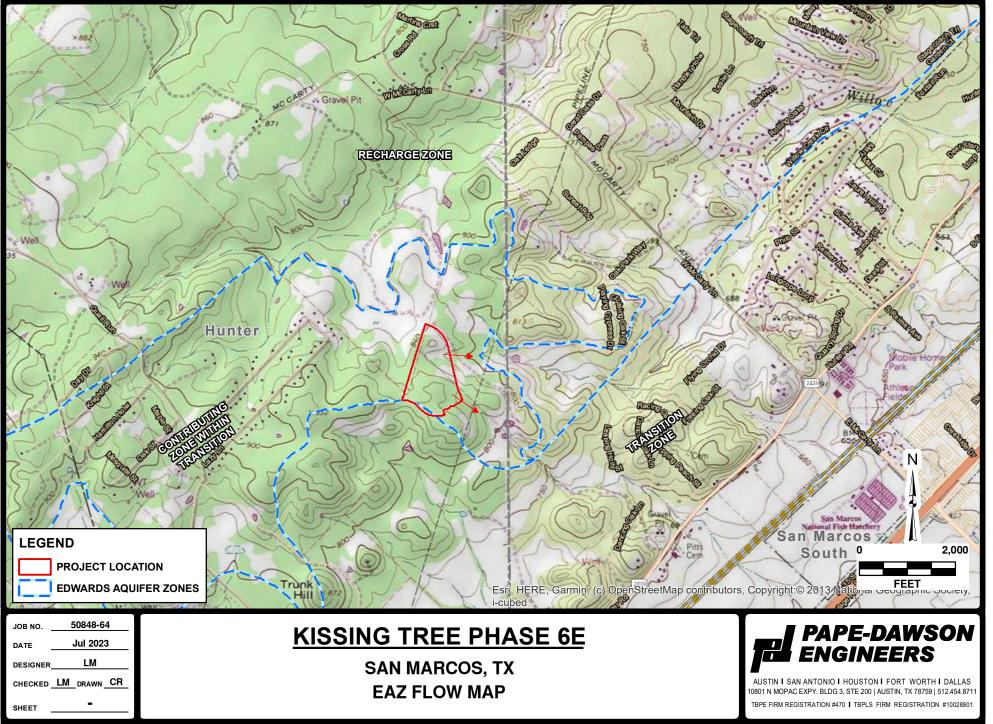
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ATTACHMENT B



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ATTACHMENT D

FACTORS AFFECTING SURFACE WATER QUALITY

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

- Soil erosion due to the clearing of the site for roads, residential homes, and drainage structures;
- Oil, grease, fuel, and hydraulic fluid contamination from construction equipment and vehicle drippings;
- Hydrocarbons from asphalt paving operations;
- Miscellaneous trash and litter from construction workers and material wrappings;
- Construction debris;
- Concrete truck washout; and
- Potential overflow/spills from portable toilets.

Potential sources of pollution that may be reasonably be expected to affect the quality of stormwater discharges from the site after development include:

- Oil, grease, fuel, and hydraulic fluid contamination from vehicle and maintenance equipment drippings;
- Dirt and dust which may fall off vehicles; and
- Miscellaneous trash and litter.



ATTACHMENT E

0

VOLUME AND CHARACTER OF STORMWATER

Stormwater runoff will increase as a result of this development. The 100-year pre-development peak flow for Basin 5 is 1653 cfs. For a 100-year storm event, the project will generate approximately 142.1 cfs from Batch Detention Pond 5-3 with a watershed post-development 100-year flow of 1485 cfs for Basin 5. The runoff coefficients for the drainage areas to Pond 5.3 change from approximately 80 to 87.1, before and after development.

The 100-year pre-development peak flow for Basin 7 is 1,735 cfs. For a 100-year storm event, the project will generate approximately 178.9 cfs from Batch Detention Pond 7-13 and 51.1 cfs from Batch Detention Pond 7-15 with a watershed post-development 100-year flow of 1,252 cfs for Basin 7. The runoff coefficients for the drainage areas to Pond 7.13 change from approximately 80 to 85.5, before and after development. The runoff coefficients for the drainage areas to Pond 7.15 change from approximately 80 to 88.2, before and after development.

Values are based on the SCS Method using runoff coefficients per the City of San Stormwater Technical Manual. Stormwater runoff from the proposed project can be characterized as overland, shallow-concentrated, and channelized flow from a proposed multi-family residential development.

ATTACHMENT J

BMPs FOR UPGRADIENT STORMWATER

No surface water, groundwater, or stormwater originates upgradient from the site and flows across the site.



ATTACHMENT K

BMPs FOR ON-SITE STORMWATER

Two (2) existing batch detention ponds, one (1) new batch pond, and one (1) engineered vegetative filter strip are proposed as the Permanent Best Management Practices (PBMPs) for this development. All PBMPs have been designed in accordance with the Texas Commission on Environmental Quality's (TCEQ) Technical Guidance Manual (TGM) RG-348 (2005) to remove 85% of the increase in Total Suspended Solids (TSS) from the site.



ATTACHMENT L

BMPs FOR SURFACE STREAMS

Two (2) existing batch detention ponds, one (1) new batch pond, and one (1) engineered vegetative filter strip are proposed as the Permanent Best Management Practices (PBMPs) for this development. All PBMPs have been designed in accordance with the Texas Commission on Environmental Quality's (TCEQ) Technical Guidance Manual (TGM) RG-348 (2005) to remove 85% of the increase in Total Suspended Solids (TSS) from the site.



ATTACHMENT M

Attachment M – Construction Plans

See attached drawing set for relevant construction plans and design drawings for Kissing Tree Phase 6E.

ATTACHMENT N

MAINTENANCE PROCEDURES FOR PERMANENT BMPs

Note: Additional guidance can be obtained from TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) Section 3.5

A written record will be kept of inspection results and maintenance performed.

3.5.8 Vegetative Filter Strips

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

- *Pest Management*. An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.
- Seasonal Mowing and Lawn Care. If the filter strip is made up of turf grass, it should be mowed as needed to limit vegetation height to 18 inches, using a mulching mower (or removal of clippings). If native grasses are used, the filter may require less frequent mowing, but a minimum of twice annually. Grass clippings and brush debris should not be deposited on vegetated filter strip areas. Regular mowing should also include weed control practices, however herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients. Irrigation of the site can help assure a dense and healthy vegetative cover.
- Inspection. Inspect filter strips at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The strip should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.
- Debris and Litter Removal. Trash tends to accumulate in vegetated areas, particularly along highways. Any filter strip structures (i.e. level spreaders) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than 4 times per year.
- Sediment Removal. Sediment removal is not normally required in filter strips, since the vegetation normally grows through it and binds it to the soil. However, sediment may accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be



removed by hand or with flat-bottomed shovels. Inspections should be performed at least twice a year and after each rainfall event, with at least one biannual inspection to occur during or immediately after a rainfall event.

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

3.5.20 Batch Detention Basin

Batch detention basins may have somewhat higher maintenance requirements than an extended detention basin since they are active stormwater controls. The maintenance activities are identical to those of extended detention basins with the addition of maintenance and inspections of the automatic controller and the valve at the outlet.

- Inspections. Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.
- *Mowing*. The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.
- Litter and Debris Removal. Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable

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debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

- *Erosion control*. The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.
- Nuisance Control. Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).
- Structural Repairs and Replacement. With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.
- Sediment Removal. A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.
- Logic Controller. The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

Signature Chad Matheson Carma Paso Robles, LLC



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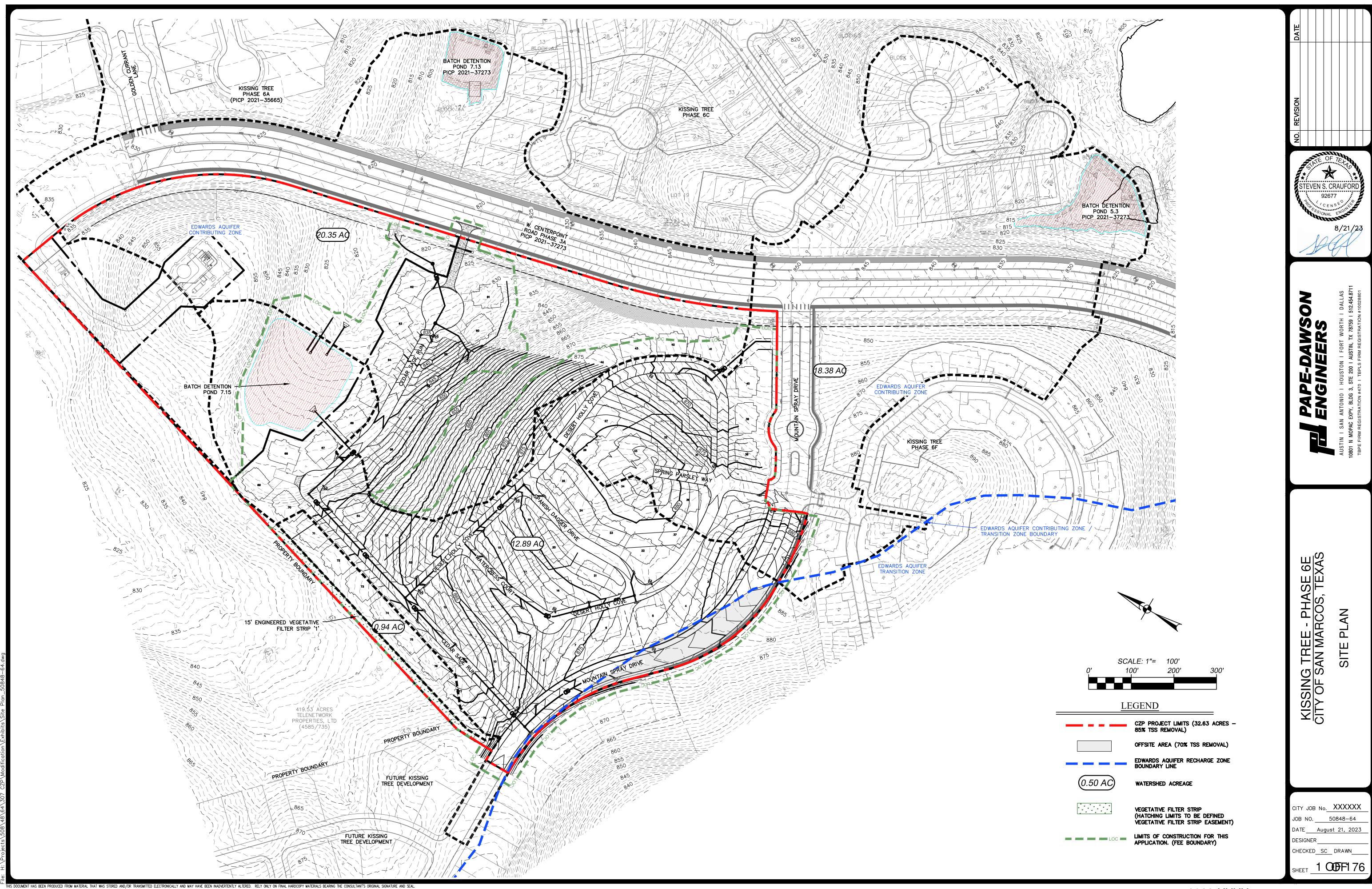
ATTACHMENT P

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

At any points where discharge from the site is concentrated and erosive velocities exist, appropriately sized energy dissipators will be provided to reduce velocities to non-erosive levels.



SITE PLAN



2023-XXXX

TEMPORARY STORMWATER SECTION

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Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

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

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

Signature

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

Print Name of Customer/Agent: Steven Crauford, P.E.

Date: 8/1 /2023

Signature of Customer/Agent:

Regulated Entity Name: Kissing Tree Phase 6E

Project Information

Potential Sources of Contamination

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

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

The following fuels and/or hazardous substances will be stored on the site: Diesel fuel, gasoline, etc.

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

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

Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

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

Sequence of Construction

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

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

- For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: <u>Cottonwood Creek, Willow</u> <u>Springs Creek</u>

Temporary Best Management Practices (TBMPs)

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

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

\ge	A description of how BMPs and measures will prevent pollution of surface water,
	groundwater or stormwater that originates upgradient from the site and flows
	across the site.

- A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
- A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
- A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
- 8. The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
 - Attachment E Request to Temporarily Seal a Feature. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
 - There will be no temporary sealing of naturally-occurring sensitive features on the site.
- 9. Attachment F Structural Practices. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
- 10. Attachment G Drainage Area Map. A drainage area map supporting the following requirements is attached:
 - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

- 11. Attachment H Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
 - 🛛 N/A
- 12. Attachment I Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
- 13. All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
- 14. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
- 15. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
- 16. 🖂 Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

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

Administrative Information

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

ATTACHMENT A

SPILL RESPONSE ACTIONS

In the event of an accidental leak or spill:

- Spill must be contained and cleaned up immediately.
- Spills will not be merely buried or washed with water.
- Contractor shall take action to contain spill. Contractor may use sand or other absorbent material stockpiled on site to absorb spill. Absorbent material should be spread over the spill area to absorb the spilled product.
- In the event of an uncontained discharge the contractor shall utilize onsite equipment to construct berms downgradient of the spill with sand or other absorbent material to contain and absorb the spilled product.
- Spill containment/absorbent materials along with impacted media must be collected and stored in such a way so as not to continue to affect additional media (soil/water). Once the spill has been contained, collected material should be placed on poly or plastic sheeting until removed from the site. The impacted media and cleanup materials should be covered with plastic sheeting and the edges weighed down with paving bricks or other similarly dense objects as the material is being accumulated. This will prevent the impacted media and cleanup materials from becoming airborne in windy conditions or impacting runoff during a rain event. The stockpiled materials should not be located within an area of concentrated runoff such as along a curb line or within a swale.
- Contaminated soils and cleanup materials will be sampled for waste characterization. When the analysis results are known the contaminated soils and cleanup materials will be removed from the site and disposed in a permitted landfill in accordance with applicable regulations.
- The contractor will be required to notify the owner, who will in turn contact TCEQ to notify them in the event of a significant hazardous/reportable quantity spill. Additional notifications as required by the type and amount of spill will be conducted by owner or owner's representative.

In the event of an accidental significant or hazardous spill:

- The contractor will be required to report significant or hazardous spills in reportable quantities as soon as possible and within 24 hours to:
 - the National Response Center at (800) 424-8802
 - the Edwards Aquifer Authority at (210) 222-2204
 - the TCEQ Regional Office (512) 339-2929 (if during business hours: 8 AM to 5 PM) or
 - the State Emergency Response Center (800) 832-8224 (if after hours)
 - reportable quantities can be found at the following link: <u>https://www.tceq.texas.gov/response/spills/spill_rq.html</u>



• Contaminated soils will be sampled for waste characterization. When the analysis results are known the contaminated soils will be removed from the site and disposed in a permitted landfill in accordance with applicable regulations.

Additional guidance can be obtained from TCEQ's Technical Guidance Manual (TGM) RG-348 (2005) Section 1.4.16. Contractor shall review this section.

ATTACHMENT B

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POTENTIAL SOURCES OF CONTAMINATION

- Potential Source Asphalt products used on this project.
 - Preventative Measure After placement of asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur. The contractor will be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain.
- Potential Source
 Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle dripping.
 - Preventative Measure Vehicle maintenance when possible will be performed within the construction staging area.
 - Construction vehicles and equipment shall be checked regularly for leaks and repaired immediately.
- Potential Source
 Accidental leaks or spills of oil, petroleum products and substances listed under 40 CFR parts 110, 117, and 302 used or stored temporarily on site.
 - Preventative Measure Contractor to incorporate into regular safety meetings, a discussion of spill prevention and appropriate disposal procedures.
 - Contractor's superintendent or representative overseer shall enforce proper spill prevention and control measures.
 - Hazardous materials and wastes shall be stored in covered containers and protected from vandalism.
 - A stockpile of spill cleanup materials shall be stored on site where it will be readily accessible.

- Potential Source
 Miscellaneous trash and litter from construction workers and material wrappings.
 - Preventive Measure Trash containers will be placed throughout the site to encourage proper trash disposal.
- Potential Source

 Construction debris.
 - Preventive Measure Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case by case basis.
- Potential Source Spills/Overflow of waste from portable toilets
 - Preventative Measure
- Portable toilets will be placed away from high traffic vehicular areas and storm drain inlets.
- Portable toilets will be placed on a level ground surface.
- Portable toilets will be inspected regularly for leaks and will be serviced and sanitized at time intervals that will maintain sanitary conditions.

ATTACHMENT C

SEQUENCE OF MAJOR ACTIVITIES

The sequence of major activities which disturb soil during construction on this site are listed below.

- 1) Set erosion controls 3,867 LF of silt fence and 68 LF of rock berm
- 2) Clear and grub 20.94 acres
- Pond excavation 1.12 acres Batch Detention Pond 7.15 to be used as a Temporary Sediment Basin
- 4) Rough grade roadway 3.69 acres
- 5) Rough grade lots 16.13 acres
- 6) Trench utilities 12,160 LF
- 7) Install water, wastewater, and storm 12,160 LF
- 8) Install sub base/base for road/parking areas 4.31 acres
- 9) Pave roadway/parking areas 3.17 acres
- 10) Pond Completion 1.12 acres
- 11) Site cleanup 20.94 acres
- 12) Remove erosion controls 3,867 LF of silt fence and 68 LF of rock berm

ATTACHMENT D

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Please see the Erosion Control sheets included in the Construction Plans Section for TBMP layout and the responses below for more details.

Site preparation, which is the initiation of all activity on the project, will disturb the largest amount of soil. Therefore, before any of this work can begin, the clearing and grading contractor will be responsible for the installation of all on-site control measures. The methodology for pollution prevention of on-site stormwater will include: (1) erection of silt fences along the downgradient boundary of construction activities for temporary erosion and sedimentation controls, (2) installation of rock berms downgradient from areas of concentrated stormwater flow for temporary erosion control, (3) installation of stabilized construction entrance/exit(s) to reduce the dispersion of sediment from the site, (4) installation of construction staging area(s), and (5) construction of temporary sediment basins.

Prior to the initiation of construction, all previously installed control measures will be repaired or reestablished for their designed or intended purpose. This work, which is the remainder of all activity on the project, may also disturb additional soil. The construction contractor will be responsible for the installation of all remaining on-site control measures that includes installation of the concrete truck washout pit(s), as construction phasing warrants.

Inlet protection will be installed and utilized to reduce the dispersion of sediment from entering the storm sewer system during construction activities.

Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. By containing the sediment and solids within the site, they will not enter the aquifer, surface streams and/or sensitive features that may exist downstream of the site.

BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through BMPs. This will allow stormwater runoff to continue downgradient to streams or features that may exist downstream of the site. Features discovered during construction will be reported and assessed in accordance with applicable regulations.



ATTACHMENT F

STRUCTURAL PRACTICES

The following structural measures will be installed prior to the initiation of site preparation activities:

- Erection of silt fences along the downgradient boundary of construction activities and rock berms for secondary protection, as located on the Erosion Control Plan sheets and illustrated on the Construction Details - Erosion Control sheet.
- Installation of stabilized construction entrance/exit(s) and construction staging area(s), as located on the Erosion Control Plan sheets and illustrated on the Construction Details - Erosion Control sheet.

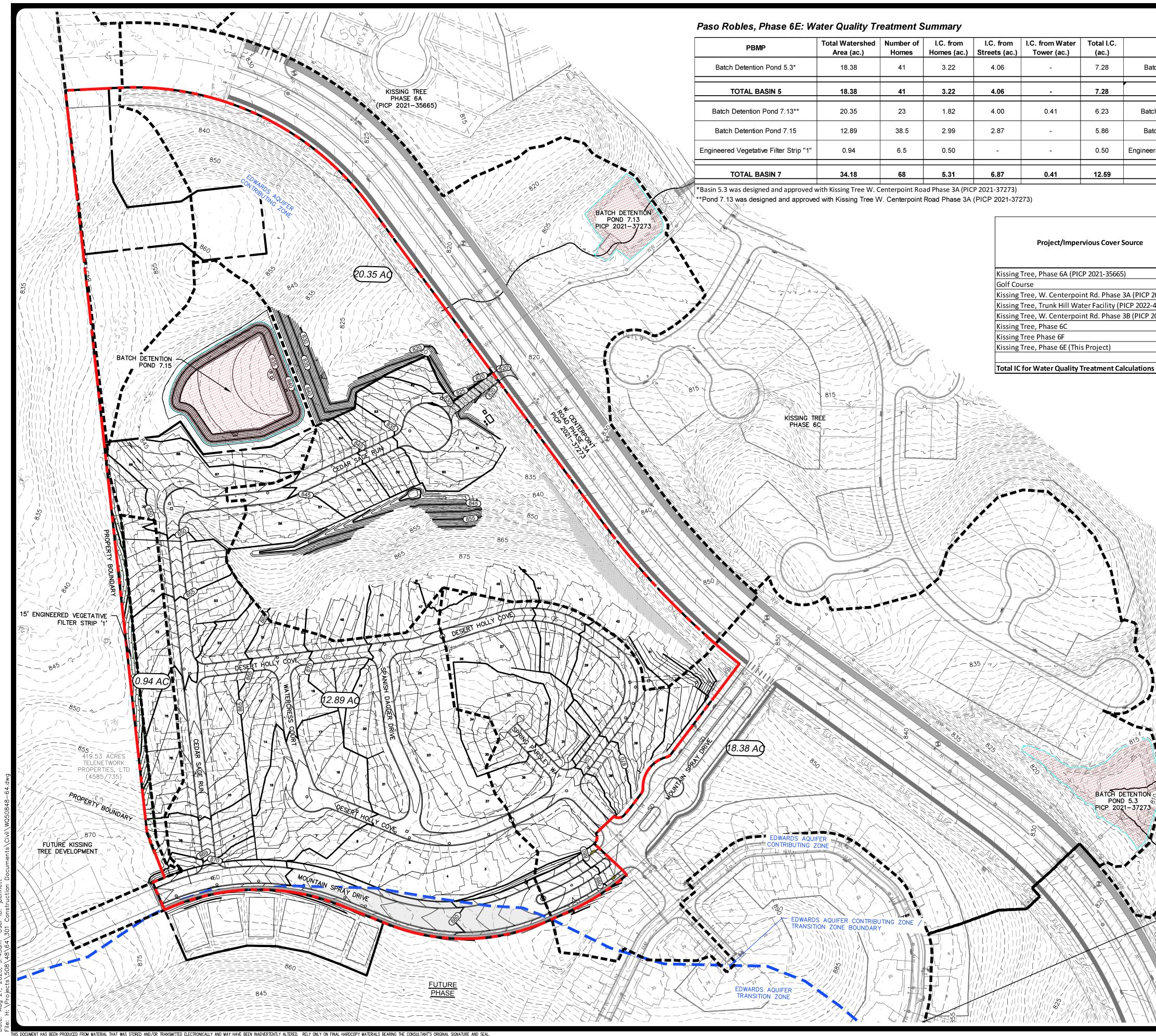
The following structural measures will be installed at the initiation of construction activities or as appropriate based on the construction sequencing:

- Installation of inlet protection, as required and located on the Erosion Control Plan sheets and illustrated on the Construction Details Erosion Control sheet.
- Installation of concrete truck washout pit(s), as required and located on the Erosion Control Plan sheets and illustrated on the Construction Details Erosion Control sheet.
- Installation of rock berm, as required and located on the Erosion Control Plan sheets and illustrated on the Construction Details Erosion Control sheet

ATTACHMENT G

DRAINAGE AREA MAP

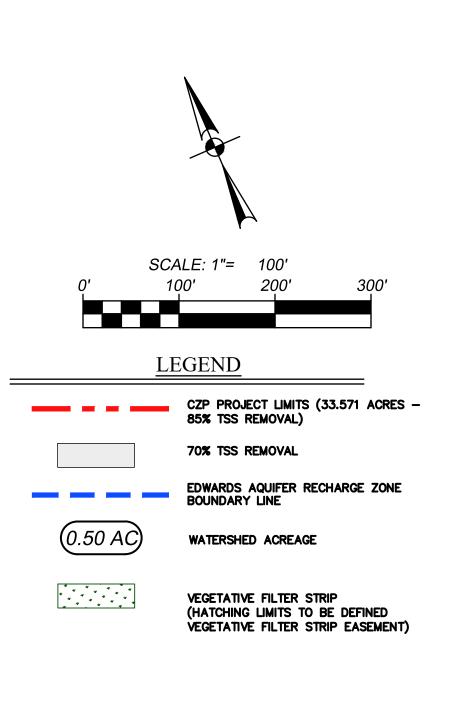
No more than 10 acres will be disturbed within a common drainage area at one time. All TBMP's utilized are adequate for the drainage areas served.



70% TSS Removal Required (lb.)	85% TSS Removal Required (lb.)	Total TSS Removal Required (lb.)	TSS Removal Provided (lb.)
-	6,943	6,943	7,085
-	6,943	6,943	7,085
-	5,942	5,942	6,132
377	5,131	5,508	5,923
-	477	477	492
377	11,549	11,927	12,547
	Required (lb.) - - - 377	Required (lb.) Required (lb.) - 6,943 - 6,943 - 5,942 377 5,131 - 477	Required (lb.) Required (lb.) Required (lb.) - 6,943 6,943 - 6,943 6,943 - 6,943 6,943 - 5,942 5,942 377 5,131 5,508 - 477 477

	Net Impervious Cover Treated	Net Impervious Cover Treated in	Net Impervious Cover Treated
	in Pond 5.3	Pond 7.13	in Pond 7.15
	Permitted with Kissing Tree,	Permitted with Kissing Tree, W.	Proposed With Kissing Tree,
	W. Centerpoint Rd. Phase 3A	Centerpoint Rd. Phase 3A	Phase 6E (This Project)
	(PICP 2021-37273)	(PICP 2021-37273)	(PICP 2023-XXXXX)
	-	-	-
	-	-	-
P 2021-3727	0.71	1.52	-
22-41287)	-	0.405	-
P 2022-41389	0.63	1.79	-
	2.13	0.43	-
	1.69	-	-
	2.12	2.08	5.86
ons	7.28	6.23	5.86

POND	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)
POND 5.3	43,955	44,038
POND 7.13	43,465	45,265
POND 7.15	48,706	49,456





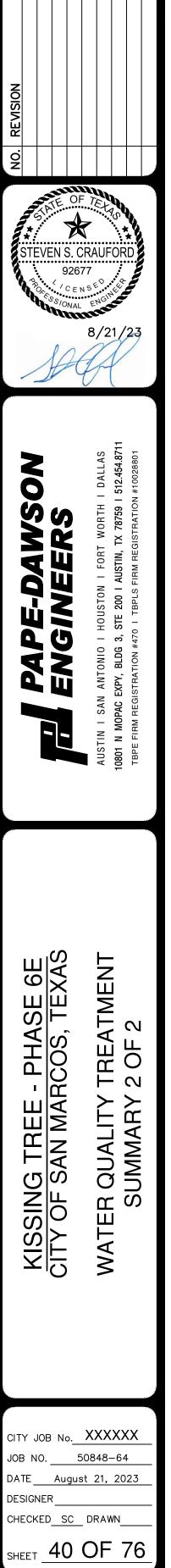
SHEET 39 OF 76

ENGINEERED VEGETATIVE FILTER STRIP "1"

	nmission on Environmental Quality						
SS Remov	al Calculations 04-20-2009			-	Paso Roble	s Phase	e 6E
				Date Prepared:	6/26/2023		
dditional in	nformation is provided for cells with a red triang	la in tha un	nor right o	ornor Blace the		the coll	
	blue indicate location of instructions in the Technica				cuisor over	the cen	•
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	shown in black (Bold) are calculated fields. Cha	anges to the	ese fields v	will remove the e	quations use	d in the	spreadsheet
The Require	d Load Reduction for the total project:	Calculations fr	om RG-348		Pages 3-27 to 3	-30	
	Page 3-29 Equation 3.3: $L_M =$	28.9(A _N x P)					
A 10 10 10 10		D I TOO					
where:	L _M TOTAL PROJECT =						
		Average annua		area for the project			
	•	, worago annac					
Site Data:	Determine Required Load Removal Based on the Entire Project						
	County = Total project area included in plan * =		acres				
P	redevelopment impervious area within the limits of the plan * =		acres				
	st-development impervious area within the limits of the plan* =	10.62	acres				
	Total post-development impervious cover fraction * =		inches				
	= Y	33	inches				
	L _{M TOTAL PROJECT} =	10128	lbs.				
	└M IOTAL PROJECT	10120					
Nun	nber of drainage basins / outfalls areas leaving the plan area =	0					
in contraction			-				
Drainage Ba	sin Parameters (This information should be provided for	each basin):					
	Drainage Basin/Outfall Area No. =	Engineered					
	Drainage Basin/Outian Area No. =	Engineerea	/-5 1				
	Total drainage basin/outfall area =		acres				
	velopment impervious area within drainage basin/outfall area =		acres				
	velopment impervious area within drainage basin/outfall area = opment impervious fraction within drainage basin/outfall area =		acres				
1 001 00101	L _{M THIS BASIN} =		lbs.	ADJUSTED FOR 85	% TSS REMOVA		ОТ 80%
Indicate the	proposed BMP Code for this basin.						
	Proposed BMP =	Vegetated Fi	ter Strips				
	Removal efficiency =		percent				
					Aqualogic Cartr Bioretention	idge Filter	-
					Contech Storm	llter	
					Constructed We		
					Extended Deter	ntion	
					Grassy Swale Retention / Irrig	ation	
					Sand Filter		
					Stormceptor		
					Vegetated Filte Vortechs	r Strips	
					Wet Basin		
					Wet Vault		
Calculate Ma	aximum TSS Load Removed (L_R) for this Drainage Basin	by the select	ed BMP Type	<u>e.</u>			
	RG-348 Page 3-33 Equation 3.7: L _R =	(BMD officiant		x 34 6 + A × 0 54			
	No-540 Fage 5-55 Equation 5.7. LR =		, , , , , , , , , , , , , , , , , , ,	- υυ			
where:	A _C =	Total On-Site	drainage area	in the BMP catchme	nt area		
	-		-	n the BMP catchment			
	•	-		the BMP catchment a			
	L _R =	TSS Load rem	oved from thi	s catchment area by t	the proposed BN	Р	
	A _C =		acres				
	A ₁ =		acres				
	A _P =		acres				
	L _R =	492	lbs				
<u>Calculate Fr</u>	action of Annual Runoff to Treat the drainage basin / out	<u>fall area</u>					
Calculate Fr	raction of Annual Runoff to Treat the drainage basin / out Desired L _{M THIS BASIN} =		lbs.				

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

	BA	ICH PO	ND 7.13	3								
as Com	mission on Environmental Quality						Texas Commission on Environmental Quality					
Remova	I Calculations 04-20-2009			Project Name: Date Prepared:	Paso Robles Ph 6/26/2023	ase 6E	TSS Removal Calculations 04-20-2009			Project Name: Date Prepared:		
ional int	formation is provided for cells with a red triang	le in the ur	pper right (orner. Place the	cursor over the o	cell.	Additional information is provided for cells with a red triangle	in the upp	er right co	ner. Place the cu	rsor over the cell.	
	blue indicate location of instructions in the Technic						Text shown in blue indicate location of instructions in the Technica					
	hown in red are data entry fields.						Characters shown in red are data entry fields.					
cters s	hown in black (Bold) are calculated fields. Ch	anges to th	ese fields	will remove the e	quations used in	the spreadsheet.	Characters shown in black (Bold) are calculated fields. Chang	es to thes	e fields will	remove the equat	ions used in the s	preadsheet.
e quire d	Load Reduction for the total project:	Calculations	from RG-348		Pages 3-27 to 3-30		1. The Required Load Reduction for the total project:	Calculations f	rom RG-348		Pages 3-27 to 3-30	
	Page 3-29 Equation 3.3: L_{M} =	28.9(A _N x P)	<u></u>				Page 3-29 Equation 3.3: L _M =	28.9(A _N x P)				
where:	L _{M TOTAL PROJECT} =			ul area for the project			where: L _{M TOTAL PROJECT} =			li area for the project		
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iotal pos	t-development impervious area within the limits of the plan [*] = Total post-development impervious cover fraction * =	10.62 0.32	acres				Total post-development impervious area within the limits of the plan* = Total post-development impervious cover fraction * =		acres			
	P =	33	inches				P =		inches			
	L _{M TOTAL PROJECT} =	10128	lbs.									
							L _{M TOTAL PROJECT} =	10128	lbs.			
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nage Bas	in Parameters (This information should be provided for	each basin)	<u>:</u>				2. Drainage Basin Parameters (This information should be provided for eacl	h basin):				
	Drainage Basin/Outfall Area No. =	7.13					Drainage Basin/Outfall Area No. =	5.3	•			
Deret	Total drainage basin/outfall area =		acres				Total drainage basin/outfall area =	18.38	acres			
	elopment impervious area within drainage basin/outfall area = elopment impervious area within drainage basin/outfall area =		acres acres				Predevelopment impervious area within drainage basin/outfall area =	0.00	acres			
	oment impervious fraction within drainage basin/outfall area =	0.31					Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area =	7.28 0.40	acres	48% IMPERVIOUS CO	OVER	
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ate the p	proposed BMP Code for this basin.											
		Det-L D					3. Indicate the proposed BMP Code for this basin.					
	Proposed BMP = Removal efficiency =		ntion percent				Proposed BMP =					
					Aqualogic Cartridge F	Filter	Removal efficiency =	91	percent			or
					Bioretention Contech StormFilter						Aqualogic Cartridge Filt Bioretention	er
					Constructed Wetland						Contech StormFilter	
					Extended Detention Grassy Swale						Constructed Wetland Extended Detention	
					Retention / Irrigation						Grassy Swale	
					Sand Filter						Retention / Irrigation	
					Stormceptor Vegetated Filter Strip)S					Sand Filter Stormceptor	
					Vortechs						Vegetated Filter Strips	
					Wet Basin Wet Vault						Vortechs Wet Basin	
ılate Ma	ximum TSS Load Removed (L _R) for this Drainage Basir	by the selec	ted BMP Tyr								Wet Vault	
	RG-348 Page 3-33 Equation 3.7: L _R =	(BMP efficier	ncy) x P x (A _l	x 34.6 + A _P x 0.54)			4. Calculate Maximum TSS Load Removed (L _R) for this Drainage Basin by the					
where:	۵., ۲	Total On-Site	e drainade are	a in the BMP catchme	nt area		RG-348 Page 3-33 Equation 3.7: L _R =	(BMP efficien	су) х Р х (А _I х	34.6 + A _P x 0.54)		
				in the BMP catchment			where: A _C =	Total On-Site	drainage area	in the BMP catchment	area	
				the BMP catchment a						n the BMP catchment ar		
	L _R =	TSS Load rei	moved from th	is catchment area by t	the proposed BMP					he BMP catchment area		
	A _C =	20.35	acres				L _R =	100 Load rer	noved from thi	s catchment area by the	- ριοροsea ΒΙΝΡ	
	A ₁ =	6.23	acres				A _c =		acres			
	A _P =		acres				A ₁ =		acres			
	L _R =	6702	lbs				A _P =		acres Ibs			
ulate Fra	ction of Annual Runoff to Treat the drainage basin / ou	tfall area	-									
	Desired L _{M THIS BASIN} =	6132	lbs.				5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall a					
	F =	0.91					Desired L _{M THIS BASIN} =	7085	lbs.			
	oture Volume required by the BMP Type for this draina	<u>ae basin / ou</u>	tfall area.	Calculations from RG	G-348 Page	s 3-34 to 3-36	F=	0.91				
late Car							6. Calculate Capture Volume required by the BMP Type for this drainage ba	<u>sin / outfall a</u>	irea.	Calculations from RG-	348 Pages	3-34 to 3-36
late Car			inches									
ilate Cap	Rainfall Depth =		cubic feet				Rainfall Depth =		inches			
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late Cap	Post Development Runoff Coefficient =		from RG-348	Pages 3-36 to 3-37								
ilate Car	Post Development Runoff Coefficient =	Calculations	-					Calculations f	rom RG-348	Pages 3-36 to 3-37		
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ulate Cap	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area =	11.33 0.00 0.00	acres				Off-site area draining to BMP = Off-site Impervious cover draining to BMP =	0.00	acres			
ulate Cap	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP =	11.33 0.00 0.00 0.02	acres				Off-site Impervious cover draining to BMP = Impervious fraction of off-site area =	0.00 0	acres acres			
	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient = Off-site Water Quality Volume =	11.33 0.00 0.00 0.02 1481	acres acres			Image: Constraint of the sector of	Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	0.00 0 0.00	acres			
	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	11.33 0.00 0.00 0.02 1481 7244	acres acres			Image:	Off-site Impervious cover draining to BMP = Impervious fraction of off-site area =	0.00 0				



Texas Commission on Environmental Quality Project Name: Paso Robles Phase 6E TSS Removal Calculations 04-20-2009 Date Prepared: 7/26/2023 Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet. Pages 3-27 to 3-30 Calculations from RG-348 1. The Required Load Reduction for the total project Page 3-29 Equation 3.3: L_H = 28.9(A_H x P) L_{M TOTAL PROJECT} = Required TSS removal resu where A_N = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Total project area included in plan * = Hays 33.70 acres Predevelopment impervious area within the limits of the plar* acres 0.00 Total post-development impervious area within the limits of the pla* Total post-development impervious cover fraction* acres 0.32 ches 9533 lbs. LA TOTAL PROJECT = Number of drainage basins / outfalls areas leaving the plan area = 0 2. Drainage Basin Parameters (This information should be provided for each basin 7.15 Drainage Basin/Outfall Area No. = Total drainage basin/outfall area= 12.89 acres Predevelopment impervious area within drainage basin/outfall are = Post-development impervious area within drainage basin/outfall are = Post-development impervious fraction within drainage basin/outfall are = 0.00 acres 5.08 ac of IC treated to 80% TSS Removal & 0.55 ac treated to 70% removal acres 0.45 ADJUSTED FOR 80% TSS REMOVAL 4829 lbs. LM THIS BASIN = ADJUSTED FOR 70% TSS REMOVAL TOTAL TSS REMOVAL 377 3. Indicate the proposed BMP Code for this basin 5206 Proposed BMP = Batch De Removal efficiency = 91 percent Aqualogic Cartridge Filter Bioretention Contech StormFilter Constructed Wetland Extended Detention Grassy Swale Retention / Irrigation Sand Filter Stormceptor Vegetated Filter Strips Vortechs Wet Basin Wet Vault 4. Calculate Maximum TSS Load Removed (L.) for this Drainage Basin by the selected BMP Type. RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A x 34.6 + Ap x 0.54) Ac = Total On-Site drainage area in the BMP catchment area where A_I = Impervious area proposed in the BMP catchment area Sylven S. CRAUFOX A_P = Pervious area remaining in the BMP catchment area L_{R} = TSS Load removed from this catchment area by the proposed BMP 92877 $A_{c} =$ 12.89 acres 5.86 A, = acres A_p = 7.03 acres 8/1/23 L_p = 6203 lbs 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall are Pape-Dawson Engineers, Inc. Desired LA THIS BASIN = 5923 lbs. Texas Engineering Firm #470 F= 0.95 Calculations from RG-348 Pages 3-34 to 3-36 6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall are; 2.60 inches Rainfall Depth = Post Development Runoff Coefficient = 0.33 On-site Water Quality Volume = 40589 cubic feet Calculations from RG-348 Pages 3-36 to 3-37 Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient = Off-site Water Quality Volume = 0.00 acres 0.00 acres 0 0.00 cubic feet 0 8118 Storage for Sediment = cubic feet Total Capture Volume (required water quality volume(s) x 1.20) = 48706

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

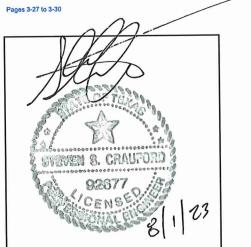
Project Name: Phase 6E Date Prepared: 7/26/2023

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

1. The Required Load Reduction for the total project		alculations fi	rom RG-348	Pag
Page 3-29 Equation 3	.3: L ₁₄ = 2	8.9(A _N x P)		<i>i</i>
where:	ROJECT = F	Required TSS	s removal resu	
			in impervious area for the project	
	P = A	verage annu	ual precipitation, inches	
Site Data: Determine Required Load Removal Based on the Entire	e Project			
Site Data. Determine required 2000 remote 2000 of the	County =	Hays		
Total project area included in		33.70	acres	
Predevelopment impervious area within the limits of the		0.00	acres	
Total post-development impervious area within the limits of the	ne pla* =	10.62	acres	
Total post dot applied the provide the provide the post dot of the provide the provide the provide the provide the provide the provided	action* =	0.32		
	P =	33	inches	
μη τοτά β	ROJECT =	9533	lbs.	
Number of drainage basins / outfalls areas leaving the pl	an area =	0		
2. Drainage Basin Parameters (This information should be provide	d for eac	h basin		
Drainage Basin/Outfall Ar	ea No. =	5.3		
Total drainage basin/outf	all area=	18.38	acres	
Predevelopment impervious area within drainage basin/out	fall are =	0.00	acres	
Post-development impervious area within drainage basin/out	fall are =	7.28	acres	
Post-development impervious fraction within drainage basin/out	fall are =	0.40		Р
	IS BASIN =	6535	lbs.	- F
2 Indicate the proposed BNP Code for this basin				

3. Indicate the proposed BMP Code for this basin

Proposed BMP = Batch Deter Removal efficiency = 91 percent



Pape-Dawson Engineers, Inc. Texas Engineering Firm #470

Pages 3-34 to 3-36

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A x 34.6 + A_P x 0.54)

where:	A _I = Im A _P = Pe	Total On-Site drainage area in the BMP catchment area Impervious area proposed in the BMP catchment area Pervious area remaining in the BMP catchment area TSS Load removed from this catchment area by the proposed				
	A _c = A _i = A _p = L _R =	18.38 7.28 11.10 7744	acres acres acres Ibs			
5. Calculate Fraction of Annual Runoff to Treat the drain:	age basin / outfall are esired L _{M THIS BASIN} =	7085	lbs.			
	F=	0.91				

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

Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume = 1.80 0.31 36629 inches cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Calculations from RG-348

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	7326	
 	INDEE	auble feet

Total Capture Volume (required water quality volume(s) x 1.20) = 43955 cubic feet

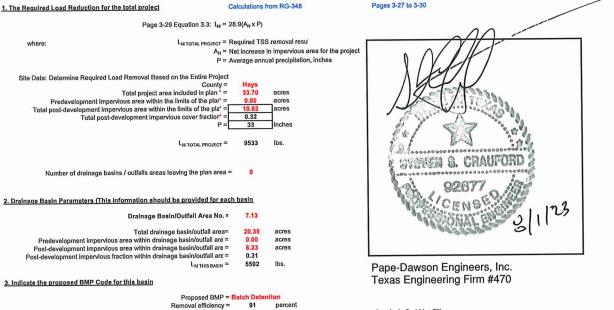
Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Paso Robles Phase 6E Date Prepared: 7/26/2023

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.



Aqualogic Cartridge Filter Bioretantion Contech StomFilter Constructed Welland Extanded Datention Grassy Swale Retantion / Irrigation Sand Filter Stormceptor Vagetated Filter Strips Vartechs Wet Basin Wet Vault

Pages 3-34 to 3-36

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A x 34.6 + A_P x 0.54)

where: A_c = Total On-Site drainage area in the BMP catchment area A_i = Impervious area proposed in the BMP catchment area A_p = Pervious area remaining in the BMP catchment area L_R = TSS Load removed from this catchment area by the proposed BMP A_c = 20.35 acres A = 5.23 acres

$A_{i} =$	6.23	acres
A _p =	14.12	acres
L _R =	6702	lbs

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

P

Desired LM THIS BASIN =	6132	lbs.

F =	0.91

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

Rainfall Depth =	1.80	inches
ost Development Runoff Coefficient =	0.26	
On-site Water Quality Volume =	34741	cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Calculations from RG-348

Off-site area draining to BMP =	11.33	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0.00	
Off-site Runoff Coefficient =	0.02	
Off-site Water Quality Volume =	1481	cubic feet
Storage for Sediment =	7244	
Total Capture Volume (required water quality volume(s) x 1.20) =	43465	cubic feet

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Paso Robles Phase 6E Date Prepared: 7/26/2023

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

Pages 3-27 to 3-30 Calculations from RG-348 1. The Required Load Reduction for the total project: Page 3-29 Equation 3.3: L_M = 28.9(A_N x P) L_{M TOTAL PROJECT} = Required TSS removal result where: A_N = Net increase in impervious area for the project P = Average annual precipitation, inches Site Data: Determine Required Load Removal Based on the Entire Project County = Hays 33.70 Total project area included in plan acres Predevelopment impervious area within the limits of the plan* = 0.00 acres Total post-development impervious area within the limits of the plan* = 10.62 acres Total post-development impervious cover fraction * = 0.32 P 33 linches L_{M TOTAL PROJECT} = 9533 lbs. Number of drainage basins / outfalls areas leaving the plan area = 0

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

Drainage Basin/Outfall Area No. = Engineered VFS "1"

- Total drainage basin/outfall area = 0.94
- Predevelopment impervious area within drainage basin/outfall area = 0.00 0.50 Post-development impervious area within drainage basin/outfall area =
- Post-development impervious fraction within drainage basin/outfall area = 0.53
- L_{M THIS BASIN} =
- 3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Vegetated Filter Strips Removal efficiency = 85 percent

449

acres

acres

acres

lbs.

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A x 34.6 + A_P x 0.54)

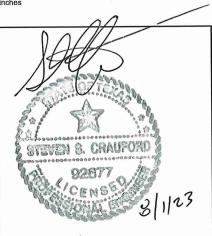
where:

Ac = Total On-Site drainage area in the BMP catchment area A_I = Impervious area proposed in the BMP catchment area A_P = Pervious area remaining in the BMP catchment area L_{R} = TSS Load removed from this catchment area by the proposed BMP

A _c =	0.94	acres
A ₁ =	0.50	acres
A _P =	0.44	acres
L _R =	492	lbs

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

492 Desired L_{M THIS BASIN} = lbs. F= 1.00



Pape-Dawson Engineers, Inc. Texas Engineering Firm #470

ATTACHMENT I

INSPECTIONS & MAINTENANCE

Designated and qualified person(s) shall inspect Pollution Control Measures weekly and within 24 hours after a storm event. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection will be recorded and maintained as part of Storm Water TPDES data for a period of three years after the Notice of Termination (NOT) has been filed. A copy of the Inspection Report Form is provided in this Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe: (1) significant disturbed areas for evidence of erosion, (2) storage areas for evidence of leakage from the exposed stored materials, (3) structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep), (4) vehicle exit point for evidence of off-site sediment tracking, (5) vehicle storage areas for signs of leaking equipment or spills, (6) concrete truck rinse-out pit for signs of potential failure, (7) embankment, spillways, and outlet of sediment basin (where applicable) for erosion damage, and (8) sediment basins (where applicable) for evidence that basin has accumulated 50% of its volume in silt. Deficiencies noted during the inspection will be corrected and documented within seven calendar days following the inspection or before the next anticipated storm event if practicable. Temporary sediment basins and permanent basins will be inspected until final stabilization of 70% within the basin watershed is achieved.

BMP inspection and maintenance requirements from sections 1.3 and 1.4 of TCEQ's Technical Guidance Manual are detailed below.

Temporary Construction Entrance/Exit

- The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
- When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Silt Fence

- Inspect all fencing weekly, and after any rainfall.
- Remove sediment when buildup reaches 6 inches.
- Replace any torn fabric or install a second line of fencing parallel to the torn section.
- Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.

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

Rock Berms

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

Inlet Protection

- Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- Check placement of device to prevent gaps between device and curb.
- Inspect filter fabric and patch or replace if torn or missing. 1-100
- Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

Sediment Basins

- Inspection should be made weekly and after each rainfall. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement. Repair should be made promptly as needed by the contractor.
- Trash and other debris should be removed after each rainfall to prevent clogging of the outlet structure.
- Accumulated silt should be removed and the basin should be re-graded to its original dimensions at such point that the capacity if the impoundment has been reduced to 75% of its original storage capacity.
- The removed sediment should be stockpiled or redistributed in areas that are protected from erosion.

Pollution	in Se	Corrective Action Required	
Prevention	Inspected in Compliance		Date
Measure	nspe Jomp	Description	Completed
	10	(use additional sheet if necessary)	-
Best Management Practices	-		
Natural vegetation buffer strips			
Temporary vegetation			
Permanent vegetation			
Sediment control basin			
Silt fences			
Rock berms			
Gravel filter bags			
Drain inlet protection			
Other structural controls			
Vehicle exits (off-site tracking)			
Material storage areas (leakage)			
Equipment areas (leaks, spills)			
Concrete washout pit (leaks, failure)			
General site cleanliness			
Trash receptacles			
Evidence of Erosion			
Site preparation			
Roadway or parking lot construction			
Utility construction			
Drainage construction			
Building construction			
Major Observations			
Sediment discharges from site			
BMPs requiring maintenance			
BMPs requiring modification			
Additional BMPs required			
A brief statement describing the	qualif	ications of the inspector is included in this	s SWP3.

"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 gather and evaluate 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

"I further certify I am an authorized signatory in accordance with the provisions of 30 TAC §305.128."

Inspector's Name

Inspector's Signature

Date

PROJECT MILESTONE DATES

Date

Date when major site grading activities begin:

Construction Activity

Installation of BMPs

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

Construction Activity	Date

Dates when stabilization measures are initiated:

Stabilization Activity		Date
	_	
	_	
	-	
	_	
Removal of BMPs	_	



ATTACHMENT J

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Interim on-site stabilization measures, which are continuous, will include minimizing soil disturbances by exposing the smallest practical area of land required for the shortest period of time and maximizing use of natural vegetation. As soon as practical, all disturbed soil will be stabilized via permanent revegetation. Details, such as installation, irrigation, and maintenance are provided below.

Installation:

- Final grading must be completed prior to seeding, minimizing all steep slopes. In addition, all necessary erosion structures such as dikes, swales, diversions, should also be installed.
- Seedbed should be well pulverized, loose, and uniform.
- Fertilizer should be applied at the rate of 40 pounds of nitrogen and 40 pounds of phosphorus per acre, which is equivalent to about 1.0 pounds of nitrogen and phosphorus per 1000 square feet. Compost can be used instead of fertilizer and applied at the same time as the seed.

Irrigation:

 Temporary irrigation should be provided according to the schedule described below, or to replace moisture loss to evapotranspiration (ET), whichever is greater. Significant rainfall (onsite rainfall of ½" or greater) may allow watering to be postponed until the next scheduled irrigation.



Time Period	Irrigation Amount and Frequency
Within 2 hours of installation	Irrigate entire root depth, or to germinate seed
During the next 10 business days	Irrigate entire root depth every Monday, Wednesday, and Friday
During the next 30 business days or until Substantial Completion	Irrigate entire root depth a minimum of once per week, or as necessary to ensure vigorous growth
During the next 4 months or until Final Acceptance of the Project	Irrigate entire root depth once every two weeks, or as necessary to ensure vigorous growth

Inspection and Maintenance Guidelines:

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

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided below, will be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased. 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 site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable.

NOTICE OF INTENT



Notice of Intent (NOI) for an Authorization for Stormwater Discharges Associated with Construction Activity under TPDES General Permit TXR150000

IMPORTANT INFORMATION

Please read and use the General Information and Instructions prior to filling out each question in the NOI form.

Use the NOI Checklist to ensure all required information is completed correctly. **Incomplete applications delay approval or result in automatic denial.**

Once processed your permit authorization can be viewed by entering the following link into your internet browser: http://www2.tceq.texas.gov/wq_dpa/index.cfm or you can contact TCEQ Stormwater Processing Center at 512-239-3700.

ePERMITS

Effective September 1, 2018, this paper form must be submitted to TCEQ with a completed electronic reporting waiver form (TCEQ-20754).

To submit an NOI electronically, enter the following web address into your internet browser and follow the instructions: https://www3.tceq.texas.gov/steers/index.cfm

APPLICATION FEE AND PAYMENT

The application fee for submitting a paper NOI is \$325. The application fee for electronic submittal of a NOI through the TCEQ ePermits system (STEERS) is \$225.

Payment of the application fee can be submitted by mail or through the TCEQ ePay system. The payment and the NOI must be mailed to separate addresses. To access the TCEQ ePay system enter the following web address into your internet browser: http://www.tceq.texas.gov/epay.

Provide your payment information for verification of payment:

- If payment was mailed to TCEQ, provide the following:
 - Check/Money Order Number:
 - Name printed on Check:
- If payment was made via ePay, provide the following:
 - Voucher Number:
 - A copy of the payment voucher is attached to this paper NOI form.

RENEWAL (This portion of the NOI is not applicable after June 3, 2018)				
Is this NOI for a renewal of an existing authorization? \Box Yes \boxtimes No				
If Y	es, provide the authorization number here: TXI	R15		enter text.
NC	TE: If an authorization number is not provided,	a ne	w number w	vill be assigned.
SE	CTION 1. OPERATOR (APPLICANT)			
a)) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? CN 603437310			
	(Refer to Section 1.a) of the Instructions)			
b)	What is the Legal Name of the entity (applicant) applying for this permit? (The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)			
	<u>Carma Paso Robles, LLC</u>			
c)) What is the contact information for the Operator (Responsible Authority)?			
	Prefix (Mr. Ms. Miss): <u>Mr.</u>			
	First and Last Name: <u>Chad Matheson</u> Suffix:			
	Title: <u>Vice President</u> Credentials:			
	Phone Number: (512) 391-1343 Fax Number:			
	E-mail: com@brookfieldpropertiesdevelopment.com			
	Mailing Address: <u>9600 N Mopac Expy</u> , <u>Suite 750</u>	<u>)</u>		
	City, State, and Zip Code: <u>Austin, TX 78758</u>			
	Mailing Information if outside USA:			
	Territory:			
	Country Code: Postal Code:			
d)	d) Indicate the type of customer:			
	🗆 Individual	□ F	ederal Gove	rnment
	Limited Partnership	\Box C	ounty Gove	rnment
	🗖 General Partnership	\Box S	tate Govern	ment
	🗖 Trust	□ C	ity Governn	nent
	□ Sole Proprietorship (D.B.A.)	\Box C	ther Govern	nment

Corporation

🗆 Estate

e) Is the applicant an independent operator? \Box Yes

□ Other:

🛛 No

TCEQ-20022 (3/6/2018) Notice of Intent for Construction Stormwater Discharges under TXR150000 (If a governmental entity, a subsidiary, or part of a larger corporation, check No.)

- f) Number of Employees. Select the range applicable to your company.
 - □ 0-20
 - 7 21 100

□ 251-500

□ 21-100

 \boxtimes 501 or higher

- □ 101-250
- g) Customer Business Tax and Filing Numbers: (**Required** for Corporations and Limited Partnerships. **Not Required** for Individuals, Government, or Sole Proprietors.)

State Franchise Tax ID Number:

Federal Tax ID:

Texas Secretary of State Charter (filing) Number:

DUNS Number (if known):

SECTION 2. APPLICATION CONTACT

Is the application contact the same as the applicant identified above?

- □ Yes, go to Section 3
- \boxtimes No, complete this section

Prefix (Mr. Ms. Miss): <u>Mr.</u>

First and Last Name: <u>Steven Crauford, P.E.</u> Suffix:

Title: <u>Vice President</u> Credential:

Organization Name: Pape-Dawson Engineers, Inc.

Phone Number: (512)454-8711 Fax Number:

E-mail: <u>scrauford@pape-dawson.com</u>

Mailing Address: <u>10801 N Mopac Expy</u>, <u>Bldg 3</u>, <u>Ste 200</u>

Internal Routing (Mail Code, Etc.):

City, State, and Zip Code: <u>Austin, TX 78759</u>

Mailing information if outside USA:

Territory:

Country Code:

Postal Code:

SECTION 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) If this is an existing permitted site, what is the Regulated Entity Number (RN) issued to this site? RN <u>Click here to enter text.</u>

(Refer to Section 3.a) of the Instructions)

- b) Name of project or site (the name known by the community where it's located): <u>Kissing Tree</u>
- c) In your own words, briefly describe the type of construction occurring at the regulated site (residential, industrial, commercial, or other): <u>Construction of public right-of-way and associated civil infrastructure.</u>
- d) County or Counties (if located in more than one): <u>Hays</u>
- e) Latitude: <u>29.843300</u> Longitude: <u>-98.002307</u>
- f) Site Address/Location

If the site has a physical address such as 12100 Park 35 Circle, Austin, TX 78753, complete *Section A*.

If the site does not have a physical address, provide a location description in *Section B*. Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1.

Section A:

Street Number and Name:

City, State, and Zip Code:

Section B:

Location Description: <u>Approx. 200 LF N of Blushing Aster Drive and W Centerpoint</u> <u>Road</u>

City (or city nearest to) where the site is located: San Marcos, Texas

Zip Code where the site is located: 78666

SECTION 4. GENERAL CHARACTERISTICS

- a) Is the project or site located on Indian Country Lands?
 - Yes, do not submit this form. You must obtain authorization through EPA Region 6.

🖾 No

- b) Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources?
 - Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6.

🖾 No

- c) What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site? <u>1611</u>
- d) What is the Secondary SIC Code(s), if applicable?
- e) What is the total number of acres to be disturbed? <u>8.467</u>

TCEQ-20022 (3/6/2018) Notice of Intent for Construction Stormwater Discharges under TXR150000 f) Is the project part of a larger common plan of development or sale?

🗆 Yes

- No. The total number of acres disturbed, provided in e) above, must be 5 or more. If the total number of acres disturbed is less than 5, do not submit this form. See the requirements in the general permit for small construction sites.
- g) What is the estimated start date of the project? December 2023
- h) What is the estimated end date of the project? June 2024
- i) Will concrete truck washout be performed at the site? \square Yes \square No
- j) What is the name of the first water body(ies) to receive the stormwater runoff or potential runoff from the site? <u>Cottonwood Creek, Willow Springs Creek</u>
- k) What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach?
- 1) Is the discharge into a Municipal Separate Storm Sewer System (MS4)?

🛛 Yes 🛛 🗆 No

If Yes, provide the name of the MS4 operator: <u>City of San Marcos</u>

Note: The general permit requires you to send a copy of this NOI form to the MS4 operator.

m) Is the discharge or potential discharge from the site within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, as defined in 30 TAC Chapter 213?

 \boxtimes Yes, complete the certification below.

 \square No, go to Section 5

I certify that the copy of the TCEQ-approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) that is included or referenced in the Stormwater Pollution Prevention Plan will be implemented.

SECTION 5. NOI CERTIFICATION

- a) I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000).
- b) I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.
- d) I certify that a Stormwater Pollution Prevention Plan has been developed, will be implemented prior to construction and to the best of my knowledge and belief is compliant with any applicable local sediment and erosion control plans, as required in the Construction General Permit (TXR150000).

Note: For multiple operators who prepare a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3, provided all obligations are confirmed by at least one operator.

SECTION 6. APPLICANT CERTIFICATION SIGNATURE

Operator Signatory Name: <u>Steve Crauford, P.E.</u>

Operator Signatory Title: Vice President

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 gather and evaluate 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature (use blue ink):

_____Date:________

NOTICE OF INTENT CHECKLIST (TXR150000)

Did you complete everything? Use this checklist to be sure!

Are you ready to mail your form to TCEQ? Go to the General Information Section of the Instructions for mailing addresses.

Confirm each item (or applicable item) in this form is complete. This checklist is for use by the applicant to ensure a complete application is being submitted. **Missing information may result in denial of coverage under the general permit.** (See NOI process description in the General Information and Instructions.)

APPLICATION FEE

If paying by check:

Check was mailed **separately** to the TCEQs Cashier's Office. (See Instructions for Cashier's address and Application address.)

□ Check number and name on check is provided in this application.

If using ePay:

□ The voucher number is provided in this application and a copy of the voucher is attached.

RENEWAL

□ If this application is for renewal of an existing authorization, the authorization number is provided.

OPERATOR INFORMATION

- Customer Number (CN) issued by TCEQ Central Registry
- ☑ Legal name as filed to do business in Texas. (Call TX SOS 512-463-5555 to verify.)
- ⊠ Name and title of responsible authority signing the application.
- ☑ Phone number and e-mail address
- ⊠ Mailing address is complete & verifiable with USPS. <u>www.usps.com</u>
- Type of operator (entity type). Is applicant an independent operator?
- \boxtimes Number of employees.
- ☑ For corporations or limited partnerships Tax ID and SOS filing numbers.
- Application contact and address is complete & verifiable with USPS. <u>http://www.usps.com</u>

REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

□ Regulated Entity Number (RN) (if site is already regulated by TCEQ)

- Site/project name and construction activity description
- \boxtimes County
- ☑ Latitude and longitude <u>http://www.tceq.texas.gov/gis/sqmaview.html</u>

TCEQ-20022 Checklist (03/06/2018)

Site Address/Location. Do not use a rural route or post office box.

GENERAL CHARACTERISTICS

- ☑ Indian Country Lands –the facility is not on Indian Country Lands.
- Construction activity related to facility associated to oil, gas, or geothermal resources
- ☑ Primary SIC Code that best describes the construction activity being conducted at the site. <u>www.osha.gov/oshstats/sicser.html</u>
- \boxtimes Estimated starting and ending dates of the project.
- ⊠ Confirmation of concrete truck washout.
- Acres disturbed is provided and qualifies for coverage through a NOI.
- \boxtimes Common plan of development or sale.
- \boxtimes Receiving water body or water bodies.
- \boxtimes Segment number or numbers.
- \boxtimes MS4 operator.
- \boxtimes Edwards Aquifer rule.

CERTIFICATION

- □ Certification statements have been checked indicating Yes.
- □ Signature meets 30 Texas Administrative Code (TAC) §305.44 and is original.

Instructions for Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity under TPDES General Permit (TXR150000)

GENERAL INFORMATION

Where to Send the Notice of Intent (NOI):

By Regular Mail: TCEQ Stormwater Processing Center (MC228) P.O. Box 13087 Austin, Texas 78711-3087 By Overnight or Express Mail: TCEQ Stormwater Processing Center (MC228) 12100 Park 35 Circle Austin, TX

Application Fee:

The application fee of \$325 is required to be paid at the time the NOI is submitted. Failure to submit payment at the time the application is filed will cause delays in acknowledgment or denial of coverage under the general permit. Payment of the fee may be made by check or money order, payable to TCEQ, or through EPAY (electronic payment through the web).

Mailed Payments:

Use the attached General Permit Payment Submittal Form. The application fee is submitted to a different address than the NOI. Read the General Permit Payment Submittal Form for further instructions, including the address to send the payment.

ePAY Electronic Payment: http://www.tceq.texas.gov/epay

When making the payment you must select Water Quality, and then select the fee category "General Permit Construction Storm Water Discharge NOI Application". You must include a copy of the payment voucher with your NOI. Your NOI will not be considered complete without the payment voucher.

TCEQ Contact List:

Application – status and form questions:	512-239-3700, swpermit@tceq.texas.gov
Technical questions:	512-239-4671, swgp@tceq.texas.gov
Environmental Law Division:	512-239-0600
Records Management - obtain copies of forms:	512-239-0900
Reports from databases (as available):	512-239-DATA (3282)
Cashier's office:	512-239-0357 or 512-239-0187

Notice of Intent Process:

When your NOI is received by the program, the form will be processed as follows:

• Administrative Review: Each item on the form will be reviewed for a complete response. In addition, the operator's legal name must be verified with Texas Secretary of State as valid and active (if applicable). The address(es) on the form must be verified with the US Postal service as receiving regular mail delivery. Do not give an overnight/express mailing address.

- Notice of Deficiency: If an item is incomplete or not verifiable as indicated above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.
- Acknowledgment of Coverage: An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit.

or

Denial of Coverage: If the operator fails to respond to the NOD or the response is inadequate, coverage under the general permit may be denied. If coverage is denied, the operator will be notified.

General Permit (Your Permit)

For NOIs submitted **electronically** through ePermits, provisional coverage under the general permit begins immediately following confirmation of receipt of the NOI form by the TCEQ.

For **paper** NOIs, provisional coverage under the general permit begins **7 days after a completed NOI is postmarked for delivery** to the TCEQ.

You should have a copy of your general permit when submitting your application. You may view and print your permit for which you are seeking coverage, on the TCEQ web site <u>http://www.tceq.texas.gov</u>. Search using keyword TXR150000.

Change in Operator

An authorization under the general permit is not transferable. If the operator of the regulated project or site changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted no later than 10 days prior to the change in Operator status.

TCEQ Central Registry Core Data Form

The Core Data Form has been incorporated into this form. Do not send a Core Data Form to TCEQ. After final acknowledgment of coverage under the general permit, the program will assign a Customer Number and Regulated Entity Number, if one has not already been assigned to this customer or site.

For existing customers and sites, you can find the Customer Number and Regulated Entity Number by entering the following web address into your internet browser: http://www15.tceq.texas.gov/crpub/ or you can contact the TCEQ Stormwater Processing Center at 512-239-3700 for assistance. On the website, you can search by your permit number, the Regulated Entity (RN) number, or the Customer Number (CN). If you do not know these numbers, you can select "Advanced Search" to search by permittee name, site address, etc.

The Customer (Permittee) is responsible for providing consistent information to the TCEQ, and for updating all CN and RN data for all authorizations as changes occur. For this permit, a Notice of Change form must be submitted to the program area.

INSTRUCTIONS FOR FILLING OUT THE NOI FORM

Renewal of General Permit. Dischargers holding active authorizations under the expired General Permit are required to submit a NOI to continue coverage. The existing permit number is required. If the permit number is not provided or has been terminated, expired, or denied, a new permit number will be issued.

Section 1. OPERATOR (APPLICANT)

a) Customer Number (CN)

TCEQ's Central Registry will assign each customer a number that begins with CN, followed by nine digits. **This is not a permit number, registration number, or license number**.

If the applicant is an existing TCEQ customer, the Customer Number is available at the following website: <u>http://www15.tceq.texas.gov/crpub/</u>. If the applicant is not an existing TCEQ customer, leave the space for CN blank.

b) Legal Name of Applicant

Provide the current legal name of the applicant. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, as filed in the county. You may contact the SOS at 512-463-5555, for more information related to filing in Texas. If filed in the county, provide a copy of the legal documents showing the legal name.

c) Contact Information for the Applicant (Responsible Authority)

Provide information for the person signing the application in the Certification section. This person is also referred to as the Responsible Authority.

Provide a complete mailing address for receiving mail from the TCEQ. The mailing address must be recognized by the US Postal Service. You may verify the address on the following website: <u>https://tools.usps.com/go/ZipLookupAction!input.action</u>.

The phone number should provide contact to the applicant.

The fax number and e-mail address are optional and should correspond to the applicant.

d) Type of Customer (Entity Type)

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type. Note that the selected entity type also indicates the name that must be provided as an applicant for an authorization.

Individual

An individual is a customer who has not established a business, but conducts an activity that needs to be regulated by the TCEQ.

<u>Partnership</u>

A customer that is established as a partnership as defined by the Texas Secretary of State Office (TX SOS). If the customer is a 'General Partnership' or 'Joint Venture' filed in the county (not filed with TX SOS), the legal name of each partner forming the 'General Partnership' or 'Joint Venture' must be provided. Each 'legal entity' must apply as a co-applicant.

Trust or Estate

A trust and an estate are fiduciary relationships governing the trustee/executor with respect to the trust/estate property.

Sole Proprietorship (DBA)

A sole proprietorship is a customer that is owned by only one person and has not been incorporated. This business may:

- 1. be under the person's name
- 2. have its own name (doing business as or DBA)
- 3. have any number of employees.

If the customer is a Sole Proprietorship or DBA, the 'legal name' of the individual business 'owner' must be provided. The DBA name is not recognized as the 'legal name' of the entity. The DBA name may be used for the site name (regulated entity).

Corporation

A customer that meets all of these conditions:

- 1. is a legally incorporated entity under the laws of any state or country
- 2. is recognized as a corporation by the Texas Secretary of State
- 3. has proper operating authority to operate in Texas

The corporation's 'legal name' as filed with the Texas Secretary of State must be provided as applicant. An 'assumed' name of a corporation is not recognized as the 'legal name' of the entity.

Government

Federal, state, county, or city government (as appropriate)

The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's 'legal name' must be provided as the applicant. A department name or other description of the organization is not recognized as the 'legal name'.

<u>Other</u>

This may include a utility district, water district, tribal government, college district, council of governments, or river authority. Provide the specific type of government.

e) Independent Entity

Check No if this customer is a subsidiary, part of a larger company, or is a governmental entity. Otherwise, check Yes.

f) Number of Employees

Check one box to show the number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the application.

g) Customer Business Tax and Filing Numbers

These are required for Corporations and Limited Partnerships. These are not required for Individuals, Government, and Sole Proprietors.

State Franchise Tax ID Number

Corporations and limited liability companies that operate in Texas are issued a franchise tax identification number. If this customer is a corporation or limited liability company, enter the Tax ID number.

Federal Tax ID

All businesses, except for some small sole proprietors, individuals, or general partnerships should have a federal taxpayer identification number (TIN). Enter this number here. Use no prefixes, dashes, or hyphens. Sole proprietors, individuals, or general partnerships do not need to provide a federal tax ID.

TX SOS Charter (filing) Number

Corporations and Limited Partnerships required to register with the Texas Secretary of State are issued a charter or filing number. You may obtain further information by calling SOS at 512-463-5555.

DUNS Number

Most businesses have a DUNS (Data Universal Numbering System) number issued by Dun and Bradstreet Corp. If this customer has one, enter it here.

Section 2. APPLICATION CONTACT

Provide the name and contact information for the person that TCEQ can contact for additional information regarding this application.

Section 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) Regulated Entity Number (RN)

The RN is issued by TCEQ's Central Registry to sites where an activity is regulated by TCEQ. This is not a permit number, registration number, or license number. Search TCEQ's Central Registry to see if the site has an assigned RN at http://www15.tceq.texas.gov/crpub/. If this regulated entity has not been assigned an RN, leave this space blank.

If the site of your business is part of a larger business site, an RN may already be assigned for the larger site. Use the RN assigned for the larger site.

If the site is found, provide the assigned RN and provide the information for the site to be authorized through this application. The site information for this authorization may vary from the larger site information.

An example is a chemical plant where a unit is owned or operated by a separate corporation that is accessible by the same physical address of your unit or facility. Other examples include industrial parks identified by one common address but different corporations have control of defined areas within the site. In both cases, an RN would be assigned for the physical address location and the permitted sites would be identified separately under the same RN.

b) Name of the Project or Site

Provide the name of the site or project as known by the public in the area where the site is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity name.

c) Description of Activity Regulated

In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the SIC Code description.

d) County

Provide the name of the county where the site or project is located. If the site or project is located in more than one county, provide the county names as secondary.

e) Latitude and Longitude

Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to: <u>http://www.tceq.texas.gov/gis/sqmaview.html</u>.

f) Site Address/Location

If a site has an address that includes a street number and street name, enter the complete address for the site in *Section A*. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate a site. Please confirm this to be a complete and valid address. Do not use a rural route or post office box for a site location.

If a site does not have an address that includes a street number and street name, provide a complete written location description in *Section B.* For example: "The site is located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1."

Provide the city (or nearest city) and zip code of the site location.

Section 4. GENERAL CHARACTERISTICS

a) Indian Country Lands

If your site is located on Indian Country Lands, the TCEQ does not have authority to process your application. You must obtain authorization through EPA Region 6, Dallas. Do not submit this form to TCEQ.

b) Construction activity associated with facility associated with exploration, development, or production of oil, gas, or geothermal resources

If your activity is associated with oil and gas exploration, development, or production, you may be under jurisdiction of the Railroad Commission of Texas (RRC) and may need to obtain authorization from EPA Region 6.

Construction activities associated with a facility related to oil, gas or geothermal resources may include the construction of a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a

carbon dioxide geologic storage facility; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel.

Where required by federal law, discharges of stormwater associated with construction activities under the RRC's jurisdiction must be authorized by the EPA and the RRC, as applicable. Activities under RRC jurisdiction include construction of a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources, such as a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility under the jurisdiction of the RRC; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel. The RRC also has jurisdiction over stormwater from land disturbance associated with a site survey that is conducted prior to construction of a facility that would be regulated by the RRC. Under 33 U.S.C. §1342(l)(2) and §1362(24), EPA cannot require a permit for discharges of stormwater from field activities or operations associated with {oil and gas} exploration, production, processing, or treatment operations, or transmission facilities, including activities necessary to prepare a site for drilling and for the movement and placement of drilling equipment, whether or not such field activities or operations may be considered to be construction activities unless the discharge is contaminated by contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the facility. Under §3.8 of this title (relating to Water Protection), the RRC prohibits operators from causing or allowing pollution of surface or subsurface water. Operators are encouraged to implement and maintain best management practices (BMPs) to minimize discharges of pollutants, including sediment, in stormwater during construction activities to help ensure protection of surface water quality during storm events.

For more information about the jurisdictions of the RRC and the TCEQ, read the Memorandum of Understanding (MOU) between the RRC and TCEQ at 16 Texas Administrative Code, Part 1, Chapter 3, Rule 3.30, by entering the following link into an internet browser:

http://texreg.sos.state.tx.us/public/readtac\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc= &p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=30 or contact the TCEQ Stormwater Team at 512-239-4671 for additional information.

c) Primary Standard Industrial Classification (SIC) Code

Provide the SIC Code that best describes the construction activity being conducted at this site.

Common SIC Codes related to construction activities include:

- 1521 Construction of Single Family Homes
- 1522 Construction of Residential Buildings Other than Single Family Homes
- 1541 Construction of Industrial Buildings and Warehouses

- 1542 Construction of Non-residential Buildings, other than Industrial Buildings and Warehouses
- 1611 Highway and Street Construction, except Highway Construction
- 1622 Bridge, Tunnel, and Elevated Highway Construction
- 1623 Water, Sewer, Pipeline and Communications, and Power Line Construction

For help with SIC Codes, enter the following link into your internet browser: <u>http://www.osha.gov/pls/imis/sicsearch.html</u> or you can contact the TCEQ Small Business and Local Government Assistance Section at 800-447-2827 for assistance.

d) Secondary SIC Code

Secondary SIC Code(s) may be provided. Leave this blank if not applicable. For help with SIC Codes, enter the following link into your internet browser: <u>http://www.osha.gov/pls/imis/sicsearch.html</u> or you can contact the TCEQ Small Business and Environmental Assistance Section at 800-447-2827 for assistance.

e) Total Number of Acres Disturbed

Provide the approximate number of acres that the construction site will disturb. Construction activities that disturb less than one acre, unless they are part of a larger common plan that disturbs more than one acre, do not require permit coverage. Construction activities that disturb between one and five acres, unless they are part of a common plan that disturbs more than five acres, do not require submission of an NOI. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

If you have any questions about this item, please contact the stormwater technical staff by phone at 512-239-4671 or by email at swgp@tceq.texas.gov.

f) Common Plan of Development

Construction activities that disturb less than five acres do not require submission of an NOI unless they are part of a common plan of development or for sale where the area disturbed is five or more acres. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

For more information on what a common plan of development is, refer to the definition of "Common Plan of Development" in the Definitions section of the general permit or enter the following link into your internet browser: www.tceq.texas.gov/permitting/stormwater/common_plan_of_development_steps.html

For further information, go to the TCEQ stormwater construction webpage enter the following link into your internet browser: <u>www.tceq.texas.gov/goto/construction</u> and search for "Additional Guidance and Quick Links". If you have any further questions about the Common Plan of Development you can contact the TCEQ Stormwater Team at 512-239-4671 or the TCEQ Small Business and Environmental Assistance at 800-447-2827.

g) Estimated Start Date of the Project

This is the date that any construction activity or construction support activity is initiated at the site. If renewing the permit provide the original start date of when construction activity for this project began.

h) Estimated End Date of the Project

This is the date that any construction activity or construction support activity will end and final stabilization will be achieved at the site.

i) Will concrete truck washout be performed at the site?

Indicate if you expect that operators of concrete trucks will washout concrete trucks at the construction site.

j) Identify the water body(s) receiving stormwater runoff

The stormwater may be discharged directly to a receiving stream or through a MS4 from your site. It eventually reaches a receiving water body such as a local stream or lake, possibly via a drainage ditch. You must provide the name of the water body that receives the discharge from the site (a local stream or lake).

If your site has more than one outfall you need to include the name of the first water body for each outfall, if they are different.

k) Identify the segment number(s) of the classified water body(s)

Identify the classified segment number(s) receiving a discharge directly or indirectly. Enter the following link into your internet browser to find the segment number of the classified water body where stormwater will flow from the site: <u>www.tceq.texas.gov/waterquality/monitoring/viewer.html</u> or by contacting the TCEQ Water Quality Division at (512) 239-4671 for assistance.

You may also find the segment number in TCEQ publication GI-316 by entering the following link into your internet browser: <u>www.tceq.texas.gov/publications/gi/gi-316</u> or by contacting the TCEQ Water Quality Division at (512) 239-4671 for assistance.

If the discharge is into an unclassified receiving water and then crosses state lines prior to entering a classified segment, select the appropriate watershed:

- 0100 (Canadian River Basin)
- 0200 (Red River Basin)
- 0300 (Sulfur River Basin)
- 0400 (Cypress Creek Basin)
- 0500 (Sabine River Basin)

Call the Water Quality Assessments section at 512-239-4671 for further assistance.

l) Discharge into MS4 - Identify the MS4 Operator

The discharge may initially be into a municipal separate storm sewer system (MS4). If the stormwater discharge is into an MS4, provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, county, or utility district, but possibly can be another form of government. Please note that the Construction General Permit requires the Operator to supply the MS4 with a copy of the NOI submitted to TCEQ. For assistance, you may call the technical staff at 512-239-4671.

m) Discharges to the Edwards Aquifer Recharge Zone and Certification

The general permit requires the approved Contributing Zone Plan or Water Pollution Abatement Plan to be included or referenced as a part of the Stormwater Pollution Prevention Plan.

See maps on the TCEQ website to determine if the site is located within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer by entering the following link into an internet browser: <u>www.tceq.texas.gov/field/eapp/viewer.html</u> or by contacting the TCEQ Water Quality Division at 512-239-4671 for assistance.

If the discharge or potential discharge is within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, a site-specific authorization approved by the Executive Director under the Edwards Aquifer Protection Program (30 TAC Chapter 213) is required before construction can begin.

For questions regarding the Edwards Aquifer Protection Program, contact the appropriate TCEQ Regional Office. For projects in Hays, Travis and Williamson Counties: Austin Regional Office, 12100 Park 35 Circle, Austin, TX 78753, 512-339-2929. For Projects in Bexar, Comal, Kinney, Medina and Uvalde Counties: TCEQ San Antonio Regional Office, 14250 Judson Rd., San Antonio, TX 78233-4480, 210-490-3096.

Section 5. NOI CERTIFICATION

- Note: Failure to indicate Yes to all of the certification items may result in denial of coverage under the general permit.
- a) Certification of Understanding the Terms and Conditions of Construction General Permit (TXR150000)

Provisional coverage under the Construction General Permit (TXR150000) begins 7 days after the completed paper NOI is postmarked for delivery to the TCEQ. Electronic applications submitted through ePermits have immediate provisional coverage. You must obtain a copy and read the Construction General Permit before submitting your application. You may view and print the Construction General Permit for which you are seeking coverage at the TCEQ web site by entering the following link into an internet browser: www.tceq.texas.gov/goto/construction or you may contact the TCEQ Stormwater processing Center at 512-239-3700 for assistance.

b) Certification of Legal Name

The full legal name of the applicant as authorized to do business in Texas is required. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at 512-463 5555, for more information related to filing in Texas.

c) Understanding of Notice of Termination

A permittee shall terminate coverage under the Construction General Permit through the submittal of a NOT when the operator of the facility changes, final stabilization has been reached, the discharge becomes authorized under an individual permit, or the construction activity never began at this site.

d) Certification of Stormwater Pollution Prevention Plan

The SWP3 identifies the areas and activities that could produce contaminated runoff at your site and then tells how you will ensure that this contamination is mitigated. For example, in describing your mitigation measures, your site's plan might identify the devices that collect and filter stormwater, tell how those devices are to be maintained, and tell how frequently that maintenance is to be carried out. You must develop this plan in accordance with the TCEQ general permit requirements. This plan must be developed and implemented before you complete this NOI. The SWP3 must be available for a TCEQ investigator to review on request.

Section 6. APPLICANT CERTIFICATION SIGNATURE

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

If you are a corporation:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(1) (see below). According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

If you are a municipality or other government entity:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(3) (see below). According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the TCEQ's Environmental Law Division at 512-239-0600.

30 Texas Administrative Code

§305.44. Signatories to Applications

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decisionmaking functions for the

corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

Texas Commission on Environmental Quality General Permit Payment Submittal Form

Use this form to submit your Application Fee only if you are mailing your payment.

Instructions:

- Complete items 1 through 5 below:
- Staple your check in the space provided at the bottom of this document.
- Do not mail this form with your NOI form.
- Do not mail this form to the same address as your NOI.

Mail this form and your check to either of the following:

By Regular U.S. Mail	By Overnight or Express Mail
Texas Commission on Environmental Quality	Texas Commission on Environmental Quality
Financial Administration Division	Financial Administration Division
Cashier's Office, MC-214	Cashier's Office, MC-214
P.O. Box 13088	12100 Park 35 Circle
Austin, TX 78711-3088	Austin, TX 78753

Fee Code: GPA General Permit: TXR150000

- 1. Check or Money Order No:
- 2. Amount of Check/Money Order:
- 3. Date of Check or Money Order:
- 4. Name on Check or Money Order:
- 5. NOI Information:

If the check is for more than one NOI, list each Project or Site (RE) Name and Physical Address exactly as provided on the NOI. **Do not submit a copy of the NOI with this form, as it could cause duplicate permit application entries!**

If there is not enough space on the form to list all of the projects or sites the authorization will cover, then attach a list of the additional sites.

Project/Site (RE) Name: Kissing Tree

Project/Site (RE) Physical Address: <u>Approximately 200 LF North of Blushing Aster Drive</u> and W. Centerpoint Road

Staple the check or money order to this form in this space.

AGENT AUTHORIZATION FORM

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Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213

Effective June 1, 1999	
------------------------	--

Ι	Chad Matheson Print Name	,
	Vice President Title - Owner/President/Other	,
of	Carma Paso Robles, LLC, Corporation/Partnership/Entity Name	
have authorized	Steven Crauford, P.E. Print Name of Agent/Engineer	
of	Pape-Dawson Engineers, 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.

Applicant's Signature

25/2023 Date

THE STATE OF Texas §

County of Travis §

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

GIVEN under my hand and seal of office on this 25⁴ day of <u>July</u>, 2023

MY COMMISSION EXPIRES: 03.10.7025

APPLICATION FEE FORM

Application Fee Form

Texas Commission on Environmental Quality					
Name of Proposed Regulated Entity: <u>Kissing Tree Phase 6E</u>					
	Regulated Entity Location: 1600 LF N of Blushing Aster Drive and W. Centerpoint Road				
Name of Customer: Carma Paso Ro					
Contact Person: <u>Chad Matheson</u>		e: <u>(512) 391-1343</u>			
Customer Reference Number (if iss					
Regulated Entity Reference Numbe	r (if issued):RN <u>111587</u>	7382			
Austin Regional Office (3373)					
🔀 Hays	Travis	Wi	lliamson		
San Antonio Regional Office (3362)				
Bexar	Medina	Uva	alde		
Comal	Kinney				
Application fees must be paid by ch		r money order, payabl	e to the Texas		
Commission on Environmental Qu	ality. Your canceled cl	neck will serve as your	receipt. This		
form must be submitted with you	r fee payment. This pa	ayment is being submit	tted to:		
Austin Regional Office		an Antonio Regional O			
Mailed to: TCEQ - Cashier		vernight Delivery to: T			
Revenues Section		2100 Park 35 Circle			
Mail Code 214		uilding A, 3rd Floor			
P.O. Box 13088		ustin, TX 78753			
Austin, TX 78711-3088		512)239-0357			
Site Location (Check All That Appl					
		Transi	tion Zone		
Recharge Zone	Contributing Zone				
Type of Plan	ו	Size	Fee Due		
Water Pollution Abatement Plan, G					
Plan: One Single Family Residentia		Acres	\$		
Water Pollution Abatement Plan, (
Plan: Multiple Single Family Reside		Acres	\$		
Water Pollution Abatement Plan, (Contributing Zone	22 (2)	ές τοο		
Plan: Non-residential		32.63 Acres	\$ 6,500 \$		
Sewage Collection System		L.F.	\$		
Lift Stations without sewer lines	Table Castline	Acres	\$		
Underground or Aboveground Sto	rage Tank Facility	Tanks	\$		
Piping System(s)(only)		Each Each	\$		
Exception		Each	\$		
Extension of Time	γ	Eduli	ې ب		
AAA					
Signature: Date: 2 // /2023					
	Date	:: 8/// /2023			
Signature.	Date	e: 8/// /2023	1 of 2		

TCEQ-0574 (Rev. 02-24-15)

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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	

CORE DATA FORM

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TCEQ Core Data Form

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

SECTION I: General Information

City Austin State 16. Country Mailing Information (if outside USA)	e TX	ZIP 78	759 ss (if applicable) 20. Fax Numbe	ZIP + 4 r (if applical	ole)
City Austin State	e TX	ZIP 78		ZIP + 4	
City Austin State	e TX	ZIP 78		ZIP + 4	
			759	ZIP + 4	
Address:	0				
9600 N Mopac Expressway, Suite 750					
Occupational Licensee Responsible Party Voluntary Cleanup Applicant Other:					
Owner Operator] Owner & Opera				
14. Customer Role (Proposed or Actual) – as it relates to the Regulat	ted Entity listed or	n this form. Ple	ease check one of the	following	
	1 and higher				
Government: City County Federal State Other Image: City Image: City City	Sole Propriet	torship Other: 13. Independently Owned and Operated?			
11. Type of Customer: Corporation Individual		Partnership: General Limited			
7. TX SOS/CPA Filing Number 8. TX State Tax ID (11	digits)	9. Fede	eral Tax ID (9 digits)	10. DUN	S Number (if applicable)
Carma Paso Robles, LLC					
6. Customer Legal Name (If an individual, print last name first: eg: D	Doe, John)	<u>lf new (</u>	Customer, enter previ	ous Custome	er below:
Texas Secretary of State (SOS) or Texas Comptrol	ler of Public	Accounts	(CPA).		
The Customer Name submitted here may be updat				rrent and	active with the
New Customer Update to 0 Change in Legal Name (Verifiable with the Texas Secretary of	Customer Inform f State or Texas		- •	Regulated E	ntity Ownership
4. General Customer Information 5. Effective Date for C					
SECTION II: Customer Information					
	<u>RN numbers in</u> al Registry**	RN 111	587382		
	s link to search	3. Regulate	ed Entity Reference	e Number <i>(i</i>	f issued)
Renewal (Core Data Form should be submitted with the ren	newal form)	Other			
New Permit, Registration or Authorization (Core Data Form	should be subm	itted with the	program application	n.)	
1. Reason for Submission (If other is checked please describe	in space provide	əd.)			

SECTION III: Regulated Entity Information

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

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

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

Kissing Tree Phase 6E

23. Street Address of the Regulated Entity:								
(No PO Boxes)	City		State		ZIP		ZIP + 4	
24. County								
	E	nter Physical Loc	cation Descripti	on if no str	eet address	is provided.		
25. Description to Physical Location:	200 LF	N of Blushing	g Aster Drive	e and Cer	nterpoint I	Road		
26. Nearest City		1. Sec. 14.				State		arest ZIP Code
San Marcos					'	ТХ	78	666
27. Latitude (N) In Deci	mal:	29.8475		28. L	.ongitude (W	/) In Decimal:	98.0047	
Degrees	Minutes	Se	econds	Degre	es	Minutes		Seconds
29	- 	50	50.99		98		0	16.91
29. Primary SIC Code (4	4 digits) 30.	Secondary SIC (Code (4 digits)	31. Prima (5 or 6 digit	nry NAICS Co ts)	ode 32. S (5 or 6	Secondary N/ 6 digits)	AICS Code
1522								
33. What is the Primary	/ Business o	of this entity? (I	Do not repeat the SIC	or NAICS de	scription.)			
Multi-family resid	ential sub	division						
			ę	9600 N Mop	oac Expy, Su	ite 750		
34. Mailing								
Address:	City	Austin	State	ТХ	ZIP	78758	ZIP + 4	3169
35. E-Mail Addres	s:		chad.math	eson@bro	okfieldprope	rtiesdevelopme	nt.com	
	hone Numbe	er	37. Extensi	on or Code		38. Fax N	umber (if app	licable)
(512)	391-1343					() -	
. TCEQ Programs and m. See the Core Data Forn	ID Numbers n instructions f	Check all Programs or additional guidan	and write in the pace.	ermits/registr	ation numbers	that will be affecte	d by the update	es submitted on this
Dam Safety	Distric		Edwards Aq	uifer	Emissi	ons Inventory Air	🗌 Industr	ial Hazardous Wast
•								
Municipal Solid Waste	New 9	Source Review Air	☐ OSSF		Petrole	um Storage Tank	D PWS	

SECTION IV: Preparer Information

Storm Water

U Waste Water

40. Name:	Steven Cra	uford, P.E.		41. Title:	Vice President
	phone Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address
(512)	454-8711		(512)459-8867	scraufor	rd@pape-dawson.com

Wastewater Agriculture

Title V Air

Tires

U Water Rights

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:	Pape-Dawson Engineers, Inc.	Job Title:	Vice Pre	sident	
Name (In Print):	Steven Crauford, P.E.			Phone:	(512) 454- 8711
Signature:	AAA			Date:	8/1/23
	-240				, , .

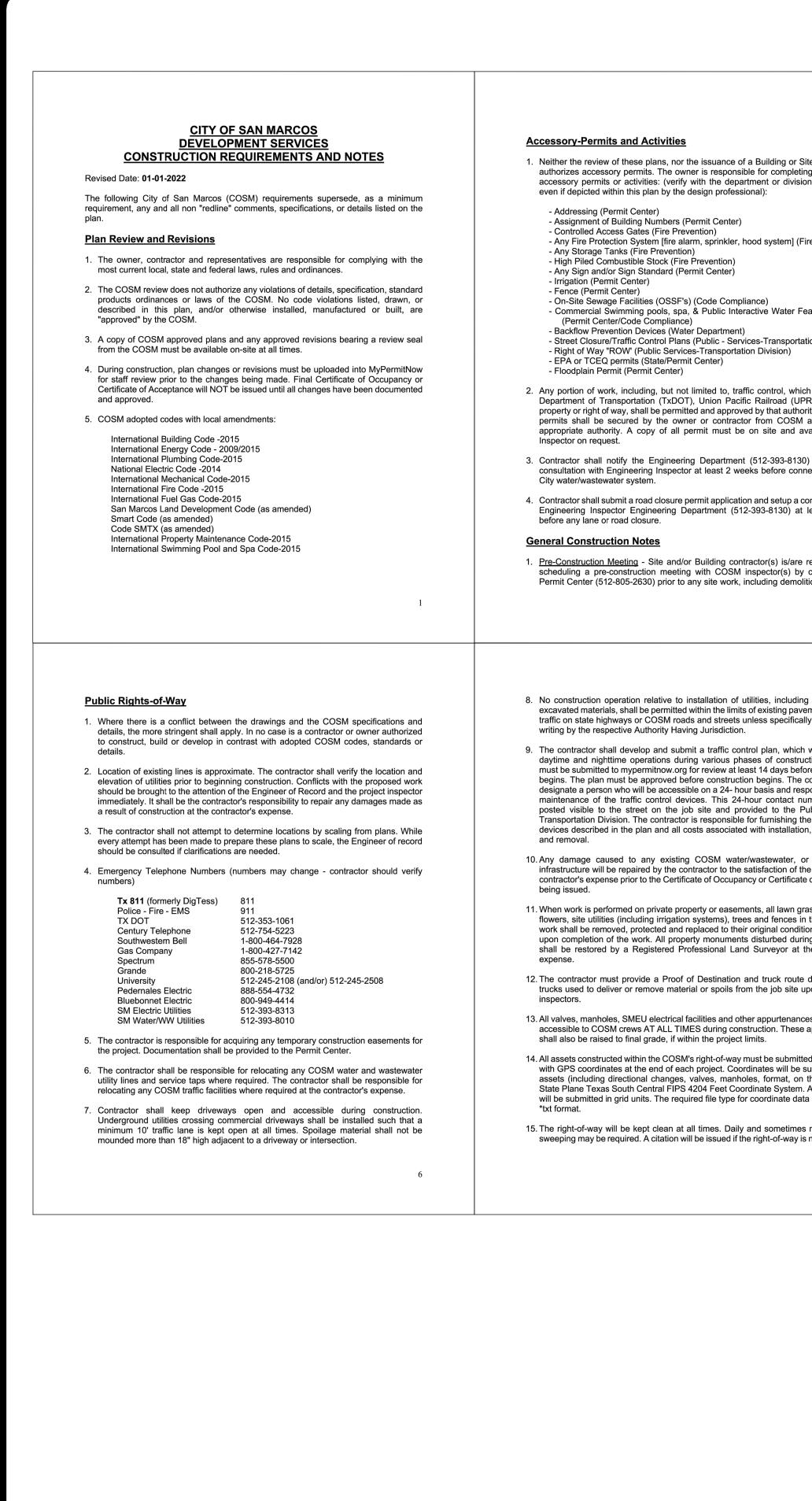
Sludge

U Voluntary Cleanup

Used Oil

Other:

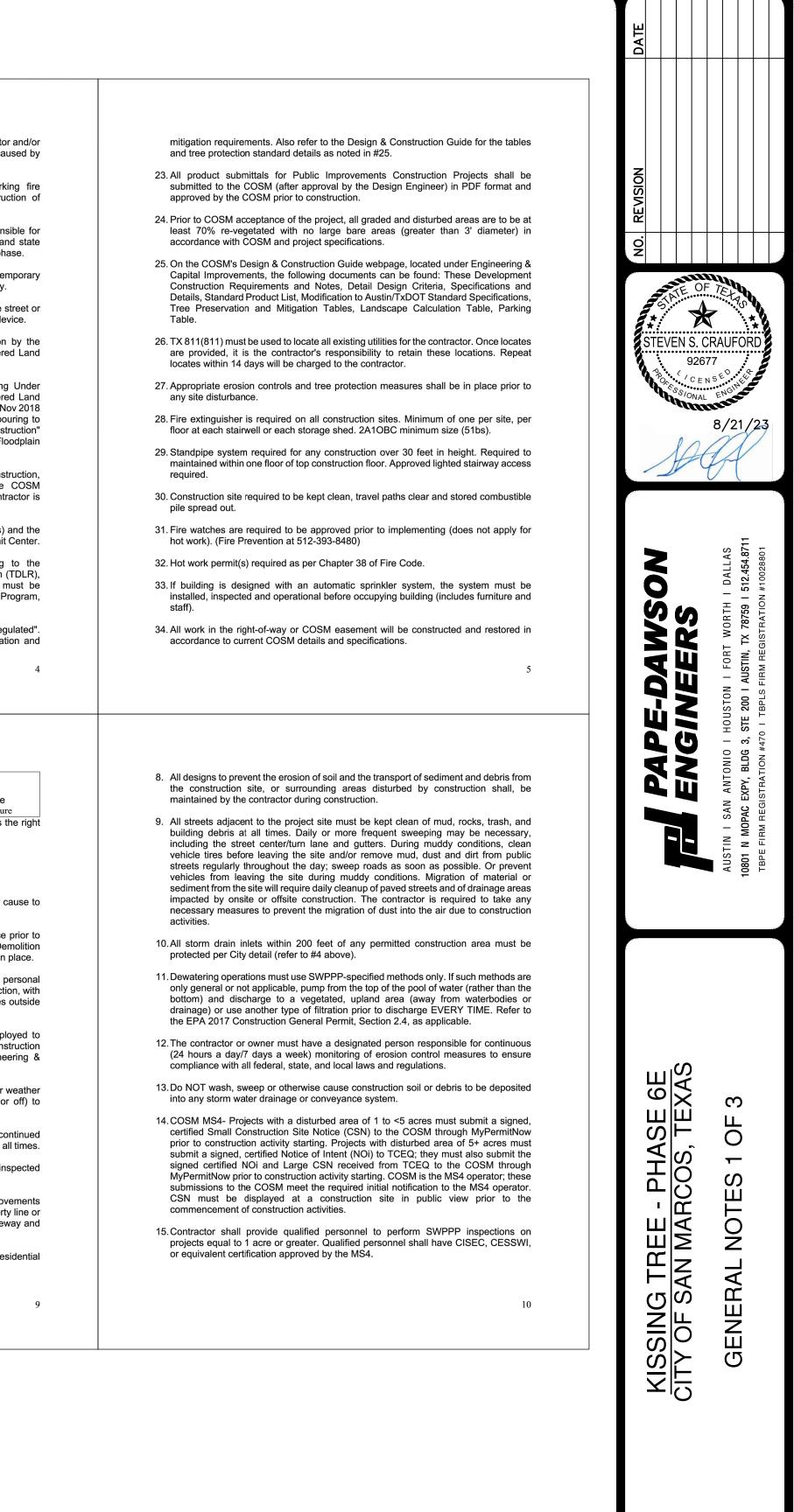
CONSTRUCTION PLANS



Aug 21, 2023, 9:23am User ID: jbennett 4. \Proiects\508\48\64\301 Construction Documents\Civil\CN5084

s document has been produced from material that was stored and/or transmitted electronically and may have been inadvertently altered. Rely only on final hardcopy materials bearing the consultant's original signature and seal.

	Improvement Construction Projects (PICP's) contact	the Engineering Department at	mud, rock, or debris permitted on any off site roadway. The general contractor a
	(512-393-8130) at capital_imp_info@sanmarcostx.go 2. <u>Site_Requirements</u> - The general contractor, ov	ov.	owner are responsible for immediately removing any debris on roadways cause construction.
ing or Site Plan Permit, completing the following or division listed below,	responsible for maintaining a safe and clean work sit	е.	13. Combustible Construction -An all-weather surfaced roadway and working hydrant(s) are required to be installed on property prior to the construction
	 Any reference in this section to water, wastewater, meant to refer to the utility of certification or Authority 	Having Jurisdiction.	combustible material. Road base alone is not acceptable. 14. <u>Safety</u> - The general contractor, subcontractors and the owner are responsible
stem] (Fire Prevention)	 Pre-Construction Video - A video in Windows mean complete site conditions for all Public Improvement requested for Site Plan Projects) is required <u>prior</u> to the COSM upon request. 	Construction Projects (and as	maintaining a safe construction operation at all times. All federal OSHA and details, as well as local codes, shall be adhered to during the construction phase 15. <u>Address</u> - The site, separate buildings, electrical disconnects, and/or temperature of the site.
	 Inspections - Inspections can be scheduled with the re them at: 	espective divisions by contacting	construction trailers must have an address visible from the street or roadway. 16. <u>Required Postings</u> - All COSM and State permits must be posted facing the stre
Nater Feature (PIWF's)	Building Inspections www.mypermitr Fire Prevention/Inspections www.mypermitr		roadway (where practical). Permanent marker is not an approved marking device 17. <u>Form Survey Requirements</u> - Prior to requesting a foundation inspection by
ansportation Division)	Site Final Inspectionssitefinal@sanmEngineering Inspections512-393-8130PICP Inspections512-393-8130	-	Building Inspector, a Form Survey must be completed by a State Registered Surveyor validating building location to COSM setback requirements.
sion) rol, which lies in Texas	Code Compliance 512-393-8440 (6. <u>Trash</u> - Approved trash containment must be provided Commercial solid waste haulers servicing construction the Community Enhancement Initiatives Manager and	on sites must hold a permit from	18. <u>Floodplain Elevation Certificates</u> - Where and when required, a "Building U Construction" Elevation Certificate must be completed by a State Registered Surveyor (or State Registered Engineer or Architect) on FEMA form expiring Nov and submitted to the Permit Center at least 36 hours prior to foundation pouring allow time for review and acceptance. A Land Surveyor's "Finished Construction"
at authority. All required COSM and any other	waste hauler fees. 7. <u>Open Burning</u> - Burning is prohibited in the COSM lin	nits.	Elevation Certificate must also be submitted to and accepted by the Flood Administrator before Temporary "Certificate of Occupancy" will be issued.
93-8130) and setup a	8. <u>Blasting</u> - Blasting is prohibited in the COSM limits.		19. If any geologic or manmade environmental feature is discovered during construct notify Texas Commission on Environmental Quality (TCEQ) and the CO Development Services within 24 hours or as soon as practicable. The contract required to provide compliance documentation as applicable.
ore connection with the	 <u>Construction Noise-Construction</u> noise, declared a nuise not permitted between 9:00 p.m. and 7:00 a.m. 	uisance under COSM ordinance,	20. EPA/TCEQ - Any required EPA or TCEQ permit(s) is/are separate permit(s) and responsibility of the contractor. Provide a copy of such permit(s) to the Permit Ce
etup a consultation with 130) at least 2 weeks	10. <u>Weekend and Holiday work</u> - Weekend and Holiday w right- of- way without prior approval.	ork is not allowed within a public	21. Abandoned wells must be capped or properly abandoned according to Administrative Rules of the Texas Department of Licensing and Regulation (TE
	 Facilities - Maintained portable bathroom facilities manual of one bathroom unit per one and two family resident required to provide one bathroom unit per ten construints. 	ial lots. All construction sites are	16 Texas Administrative Code (TAC), Chapter 76. A plugging report mus submitted (by a licensed water well driller) to the TDLR Water Well Drillers Prog Austin Texas. If a well is intended for use, it must comply with 16 TAC.
 is/are responsible for or(s) by contacting the g demolition. For Public 	12. <u>Access</u> - Temporary access driveways on the job s entrances/exits) must comply with the current City det		22. Any tree 9" in diameter or larger at 4.5' above natural grade is considered "regula Please refer to the LDC and technical manuals for tree survey, preservation
2		3	
including stockpiling of ting pavements carrying pacifically authorized in	Do NOT wash, sweep or otherwise cause construction into any storm water drainage or conveyance system		Driveway Curb Inlets Air, Slump & Compression - In Place Ber exposed structure
ting pavements carrying pecifically authorized in	into any storm water drainage or conveyance system 16. The Owner shall coordinate temporary relocation of Postmaster. Final location shall be in accordan	n. mailboxes with the San Marcos	Curb Inlets Per 10 Inlets Air, Slump & Compression - In Place Per exposed structure Slump & Compression - In Place Per underground structure * The above testing rates are only anticipated guidelines. The COSM reserves the
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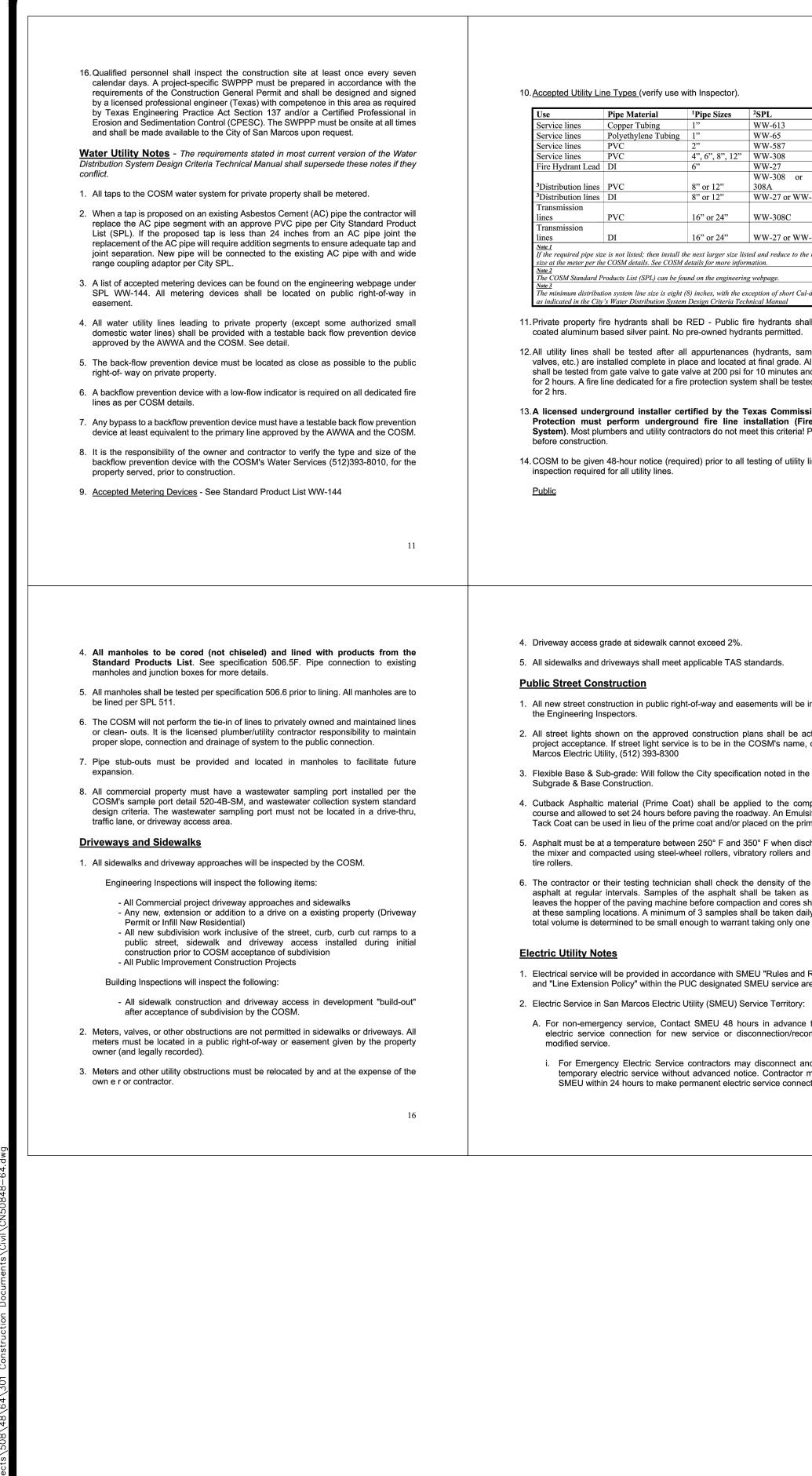
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CITY JOB No. XXXXXX JOB NO. 50848-64 DATE August 21, 2023

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21, 2023, 9:23am User ID: jbennett solarte/508/48/64/301 Construction Documents/Civil/CN50

IS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

or WW- wW-27F wW-27F to the needed rt Cul-de-Sacs a shall be factory tested @ 200 psi tested @ 200 psi	<text><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></section-header></text>	 The underground contractor must submit a report (on company letterhead) fireplan@sammarcostx.gov indicating that the fire line is complete and has be flushed of all debris. All fire hydrants that have not been inspected or flushed are considered "out service" and are required to have a black plastic wrap covering the hydrant. COSM will not perform the tie-in of a public service line to a private line. It is the responsibility of the owner or contractor to tie to the COSM's line from right-of-way or public easement to the private property line. It is the licens plumber/utility contractor responsibility to maintain proper slope and connection system to the public contection. Fire hydrants capable of producing the required GPM (based on construction ty must be located within 500 foot of the most remote portion of the building us accessible surfaced roadway for measurement. Fire hydrants must be operational prior to beginning combustible construction. All valves in a COSM right-of-way will be operated by COSM personnel only. T contractor may not operate any COSM owned valve. The general contractor will fined if a water valve is operated without express written consent of the Water Util regardless of who operated the valve. Only temporary water meters approved by the COSM are authorized for use on a fire hydrant (public or private). Temporary meters may be relocated from one hydrants without meters, w unapproved meters, or failing to use approved backflow prevention or air g protection. Thrust blocks are not permitted. All fittings shall be mechanically restrained Beil Joi shall be mechanically restrained in accordance with the Engineer of Recor specifications based on site conditions. A joint restraint table, sealed by the Engine of Record must be submitted with each set of plans. <u>If a joint restraint table is available.</u> all loints must be mechanically restrained. The serv
Il be inspected by be active prior to ame, contact San in the 200: Series completed base smulsified Asphalt e prime coat. In discharged from a and pneumatic- of the compacted an as the asphalt res shall be taken in daily unless the y one sample. and Regulations" ce area. tory: ance to schedule /reconnection for ct and reconnect connection.	<list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item>	Bluebonnet Electric Cooperative 800-842-7708 (Ask for Lockhart engineering dept.) NOTE: This document is not meant or designed to be an all-inclusive document. T function of this 'requirements' document is to provide information on issues identified the COSM inspection staff based on daily field operations and common issues. It is 1 intent of this document to facilitate the construction process in common overlapping are between COSM departments and divisions and private contractors. In all case contractors, subcontractors and owners are responsible for knowing and utilizing i state, federal, or COSM codes and laws where applicable. No code violations a "approved". COSM signed or reviewed plans are not authorization to violate codes, law or ordinances. A copy of plans bearing a seal from Building inspections and/or the Per Center is required to be available on-site at all times. Any changes or revisions to the plans must first be submitted to the COSM by the design professional for review a written authorization. A review seal from the COSM must be affixed to these revised plan and they must be available on-site at all times.

	DATE
33. Disinfection sample taps shall be installed at proper locations (not more than 1000-	
foot intervals) along public water lines. Wastewater Utility NotesThe requirements stated in most current version of the	
Wastewater Collection System Design Criteria Technical Manual shall supersede these notes if they conflict.	
 <u>Required Equipment</u> - The following are the acceptable materials for the type of lines or connections shown: 	NO
Public Sewer Lines - SDR 26 in the COSM right of way (as a minimum). See SPL WW227 &WW-227A	REVISION
Private Sewer Lines - Schedule 40 or SDR 26 Approved connections - See SPL WW-354	Ö
	2 mining
 Inspection Engineering Inspections is responsible for inspection of all utility taps, line installations, extensions, and adaptations on all Public Improvement Construction Projects. See 510.3(26) Quality Testing for Installed Pipe-of the Modifications of the State St	STATE OF TELES
Austin Specifications for more details 4-psi minimum pressure test on lines	STEVEN S. CRAUFORD
- Lines must be flushed immediately prior to the TV test	SO/ONAL ENGINE
- TV test on all public lines (copy of video to Engineering Inspections)	8/21/23
 Mandrel test required 30 days after installation Building Inspections is responsible for inspection of all utility taps, service laterals, 	1000
and private lines on all Site Preparation Projects and all residential and commercial construction.	MA
 Low-pressure air test with 5 PSI on all lines Force mains; 5 psi over working pressure with minimum of 50 psi, for 1 hour 	
 All sewer lines shall be tested after all appurtenances are located at final grade. 	=
 All services must be six inch minimum and must have clean-outs; dual services shall have clean- outs on each line located no less than six feet apart at the property line. 	THE FIRM REGISTRATION #70 I TEPLE FIRM REGISTRATION #10028801
See detail 520s- 1-SM & 520S-3-SM for more details and TCEQ specifications.	0 #10
15	PE-DAWS GINEERS I HOUSTON I FORT WORTH 3, STE 200 I AUSTIN, TX 78759 470 I TBPLS FIRM REGISTRATIO
	RT W TX T
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ADDITIONAL NOTES	PELD GINE GINE 0 I HOUSTON I 3, STE 200 I AUS #470 I TBPLS FIRI
1. WHEN A DEVELOPMENT IN THE RECHARGE ZONE OR TRANSITION ZONE INCLUDES ANY	ноц 70 - т
EXCAVATION, THE PERSON PERFORMING THE DEVELOPMENT MUST EITHER ENGAGE A QUALIFIED GEOLOGIST TO INSPECT THE EXCAVATION, OR NOTIFY THE ENGINEERING	
DIRECTOR TO ARRANGE FOR INSPECTION OF THE EXCAVATION BY CITY PERSONNEL. THE INSPECTION WILL BE FOR THE PURPOSE OF DETERMINING WHETHER THE EXCAVATION	IN I SAN ANTONIO N MOPAC EXPY, BLDG
HAS UNCOVERED ANY GEOLOGIC OR MANMADE FEATURE THAT PRESENTS A POSSIBLE AVENUE FOR RECHARGE TO THE AQUIFER. THE INSPECTION WILL BE MADE EITHER UPON	AN AN STR STR
COMPLETION OF THE EXCAVATION, IF IT IS IN A SINGLE, DEFINED AREA, OR IN	SAN PAC ET
SEGMENTS, IF THE EXCAVATION IS LINEAR, OR IS IN MULTIPLE LOCATIONS, OR IS ACCOMPLISHED OVER AN EXTENDED PERIOD OF TIME. THE EXCAVATION MAY BE	MOP S H
TEMPORARILY BACKFILLED BEFORE INSPECTION, BUT INSPECTION MUST OCCUR WITH THE FULL EXCAVATION UNCOVERED BEFORE PERMANENT BACKFILLING IS PERFORMED. IF AN	AUSTIN I 0801 N MO
INSPECTION REVEALS THAT ONE OR MORE SUCH FEATURES HAS BEEN UNCOVERED, THE PERSON PERFORMING THE DEVELOPMENT MUST:	AUST TBPE
a. IMMEDIATELY NOTIFY THE ENGINEERING DIRECTOR;	
 UTILIZE TEMPORARY BMPS TO PREVENT POLLUTION FROM ENTERING THE AQUIFER THROUGH THE FEATURES; AND 	
c. NOT PERFORM ANY FURTHER WORK IN THE EXCAVATION UNTIL AN APPLICATION FOR AN AMENDMENT TO THE APPROVED WATERSHED PROTECTION PLAN (PHASE 1, PHASE	
2, OR QUALIFIED, AS APPLICABLE), FOR A DEVELOPMENT IN THE RECHARGE ZONE,	
OR AN APPLICATION FOR APPROVAL OF A SITE PREPARATION PERMIT, FOR A DEVELOPMENT IN THE TRANSITION ZONE, IS SUBMITTED TO AND APPROVED BY THE ENGINEERING DIRECTOR.	
2. IF A NEW SENSITIVE FEATURE, OR ANY SOLUTION OPENING, CAVE, SINKHOLE, OR	
SIMILAR FEATURE, IS ENCOUNTERED ON A SITE IN THE RECHARGE ZONE OR TRANSITION ZONE DURING THE CONSTRUCTION PROCESS FOR A DEVELOPMENT, OR IF A PREVIOUSLY	
KNOWN SENSITIVE FEATURE IS FOUND IN THE COURSE OF CONSTRUCTION TO BE LARGER OR MORE EXTENSIVE THAN PREVIOUSLY NOTED IN THE GEOLOGIC ASSESSMENT	
OF THE SITE, THE HOLDER OR THE HOLDER'S DESIGNATED REPRESENTATIVE MUST: a. IMMEDIATELY SUSPEND ALL EXCAVATION AND CONSTRUCTION ACTIVITIES WITHIN 50	ഗ
FEET OF THE FEATURE, MEASURED HORIZONTALLY; b. IMMEDIATELY NOTIFY THE ENGINEERING DIRECTOR OF THE DISCOVERY; AND	N XY
C. RETAIN A QUALIFIED GEOLOGIST TO INSPECT THE FEATURE AND MAKE A RECOMMENDATION TO THE ENGINEERING DIRECTOR BASED ON THE RELATIVE	
SENSITIVITY OF THE FEATURE.	PHASE COS, TE
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF SAN MARCOS SPECIFICATIONS.	NS JS
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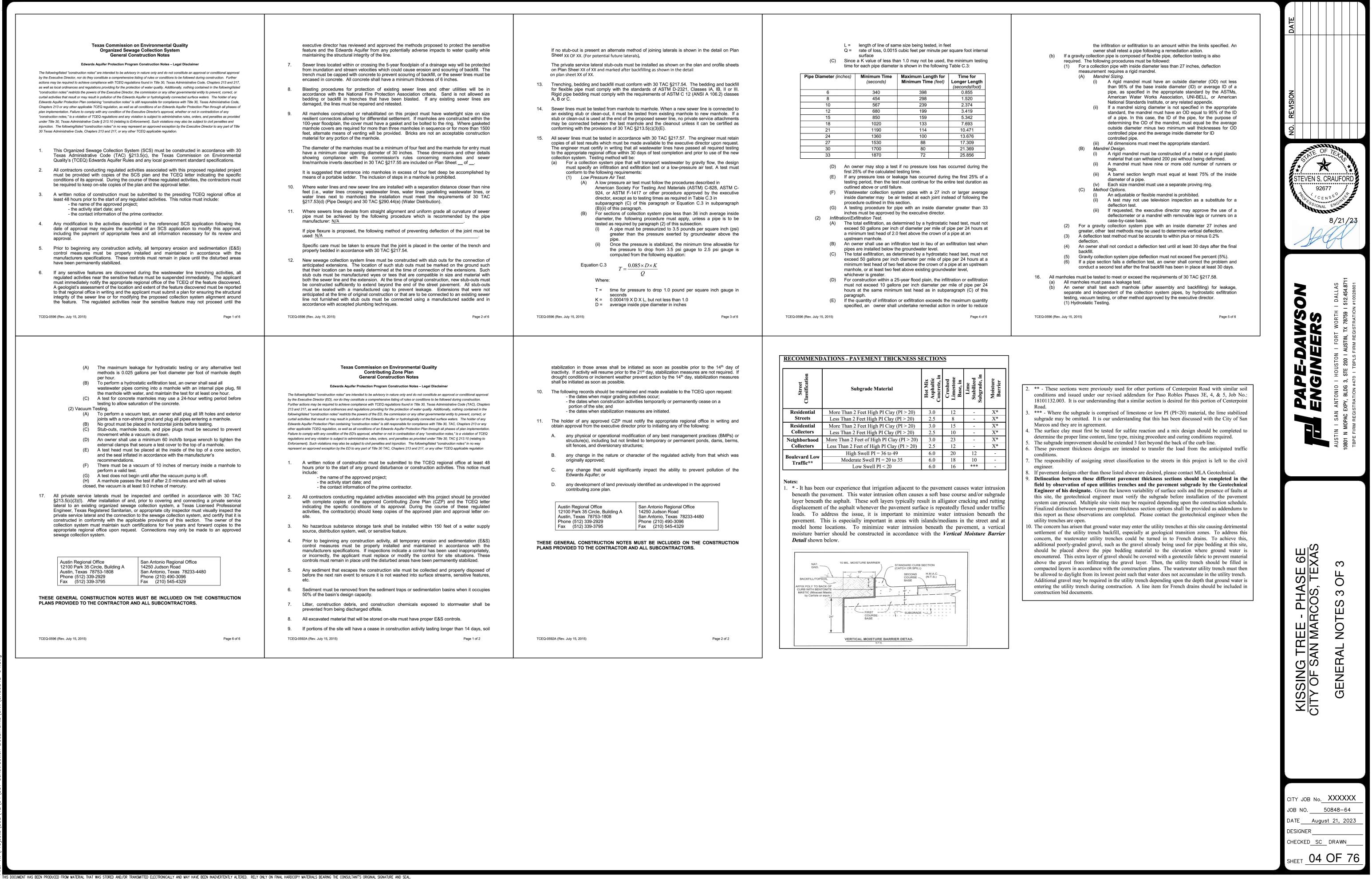
JOB NO. 50848-64 DATE August 21, 2023

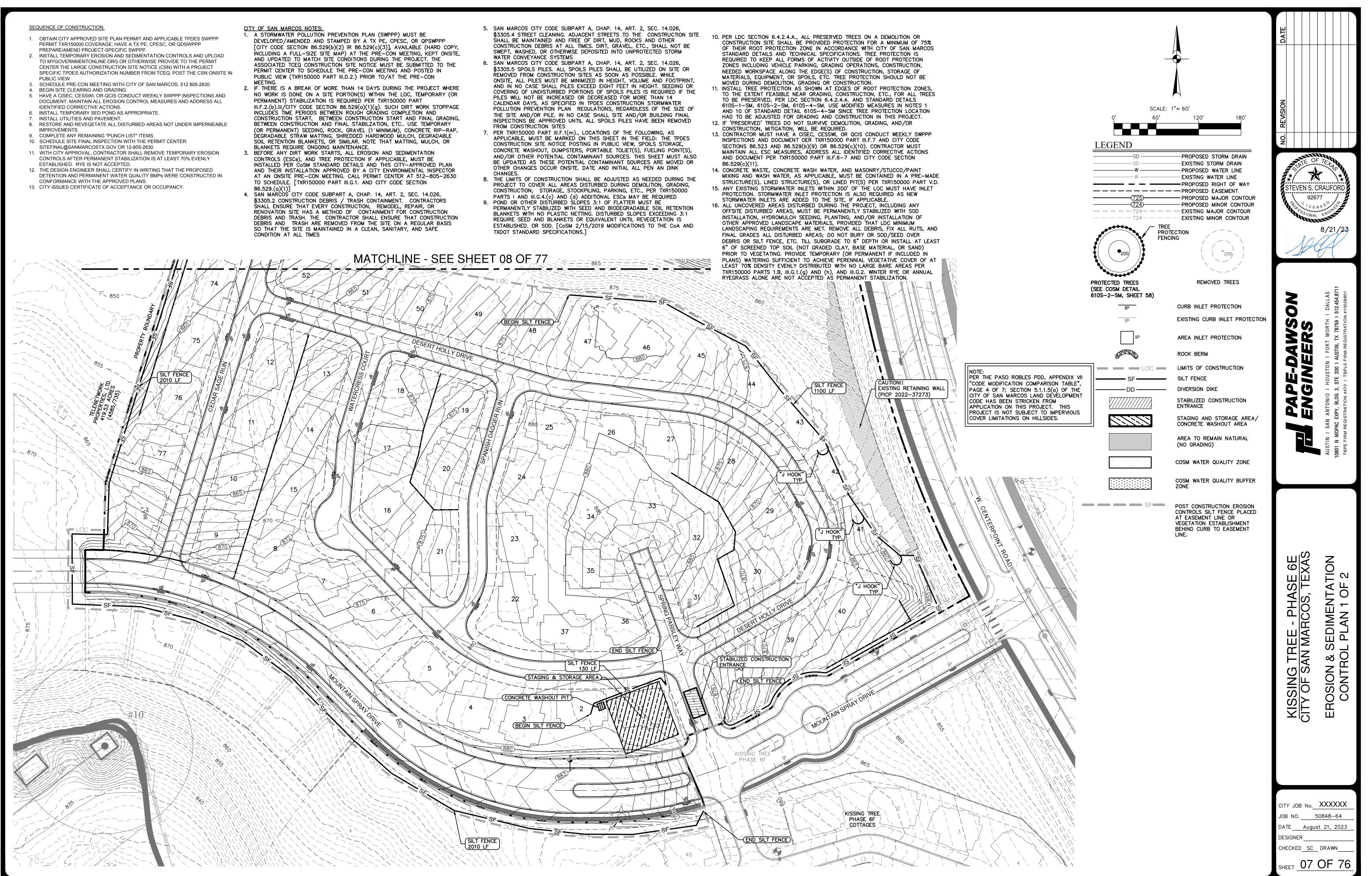
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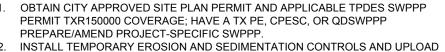
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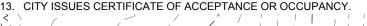


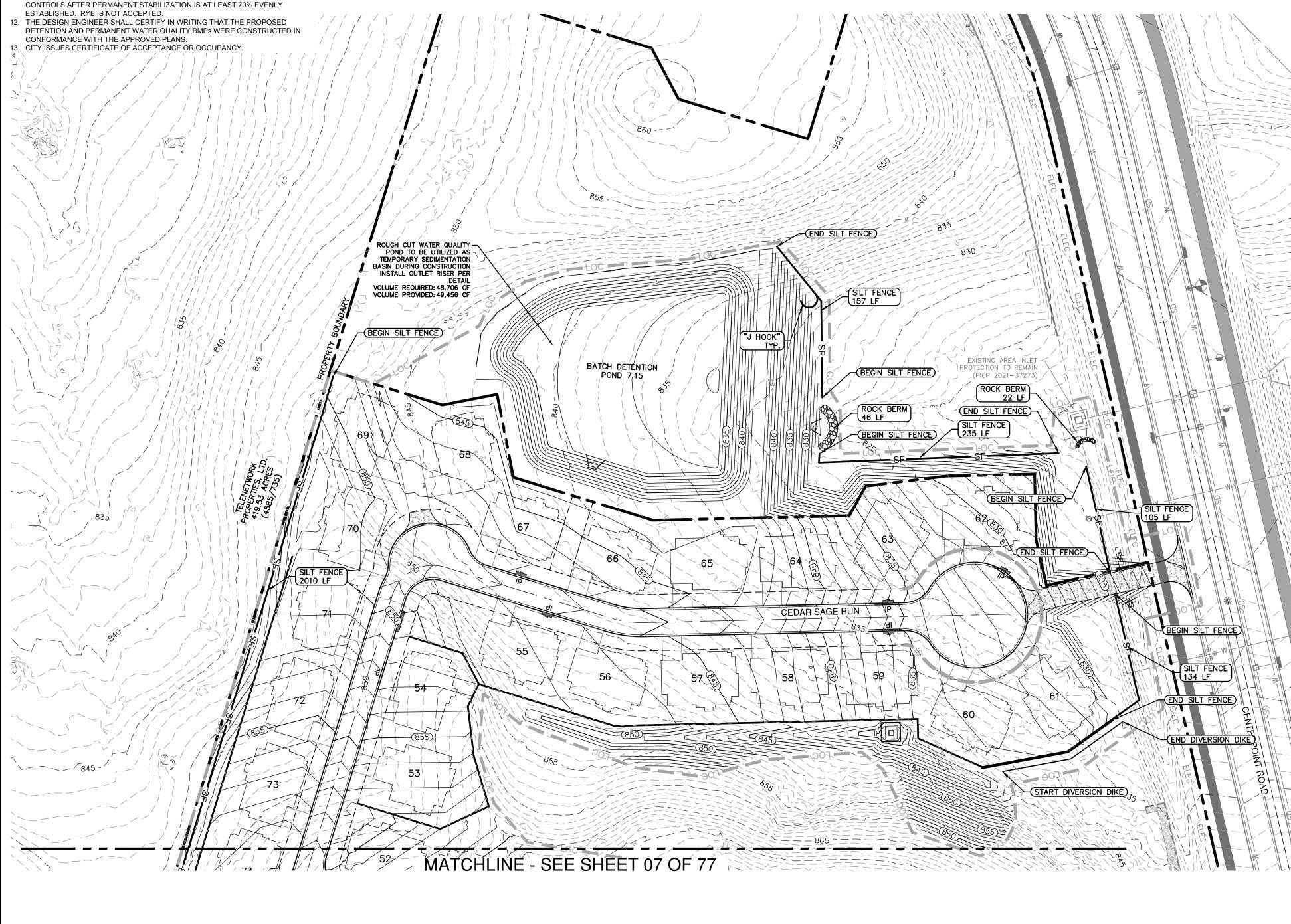
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- TO MYGOVERNMENTONLINE.ORG OR OTHERWISE PROVIDE TO THE PERMIT CENTER THE LARGE CONSTRUCTION SITE NOTICE (CSN) WITH A PROJECT SPECIFIC TPDES AUTHORIZATION NUMBER FROM TCEQ. POST THE CSN ONSITE IN PUBLIC VIEW.
- SCHEDULE PRE-CON MEETING WITH CITY OF SAN MARCOS. 512 805-2630. BEGIN SITE CLEARING AND GRADING.
- HAVE A CISEC, CESSWI, OR QCIS CONDUCT WEEKLY SWPPP INSPECTIONS AND DOCUMENT. MAINTAIN ALL EROSION CONTROL MEASURES AND ADDRESS ALL
- IDENTIFIED CORRECTIVE ACTIONS. INSTALL TEMPORARY SED POND AS APPROPRIATE.
- INSTALL UTILITIES AND PAVEMENT. RESTORE AND REVEGETATE ALL DISTURBED AREAS NOT UNDER IMPERMEABLE
- IMPROVEMENTS. COMPLETE ANY REMAINING "PUNCH LIST" ITEMS.
- SCHEDULE SITE FINAL INSPECTION WITH THE PERMIT CENTER: SITEFINAL@SANMARCOSTX.GOV OR 12-805-2630.
- WITH CITY APPROVAL, CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROLS AFTER PERMANENT STABILIZATION IS AT LEAST 70% EVENLY ESTABLISHED. RYE IS NOT ACCEPTED.





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CITY OF SAN MARCOS NOTES:

DEVELOPED/AMENDED AND STAMPED BY A TX PE, CPESC, OR QPSWPPP [CITY CODE SECTION 86.529(b)(2) IR 86.529(c)(3)], PRE-CON MEETING, KEPT ONSITE, AND UPDATED TO MATCH SITE CONDITIONS DURING THE PROJECT. THE ASSOCIATED TCEQ CONSTRUCTION SITE NOTICE MUST BE SUBMITTED TO THE PERMIT CENTER TO SCHEDULE THE PRE-CON MEETING AND POSTED IN PUBLIC VIEW (TXR150000 PART III.D.2.) PRIOR TO/AT THE PRE-CON

2. IF THERE IS A BREAK OF MORE THAN 14 DAYS DURING THE PROJECT TEMPORARY (OR PERMANENT) STABILIZATION IS REQUIRED PER TXR150000 PART III.F.2.(b).iii/CITY CODE SECTION 86.529(a)(1)(g). SUCH DIRT WORK STOPPAGE INCLUDES TIME PERIODS BETWEEN SEEDING, ROCK, GRAVEL (1" MINIMUM), CONCRETE RIP-RAP, DEGRADABLE STRAW MATTING, SHREDDED HARDWOOD MULCH, DEGRADABLE SOIL RETENTION BLANKETS, OR SIMILAR, NOTE THAT MATTING, MULCH, OR BLANKETS REQUIRE ONGOING MAINTENANCE. PLAN AND THEIR INSTALLATION APPROVED BY A CITY

PERMIT CENTER AT 512-805-2630 TO SCHEDULE. [TXR150000 PART III.G.1. AND CITY CODE SECTION 86.529.(a)(1)4. SAN MARCOS CITY CODE SUBPART A, CHAP. 14, ART. 2, SEC. 14.026, §3305.2 CONSTRUCTION DEBRIS / TRASH CONTAINMENT. CONTRACTORS SHALL ENSURE THAT EVERY CONSTRUCTION, REMODEL, REPAIR, OR RENOVATION SITE HAS A METHOD OF CONTAINMENT FOR CONSTRUCTION DEBRIS AND TRASH. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION DEBRIS AND TRASH ARE REMOVED FROM THE SITE ON A REGULAR BASIS SO THAT THE SITE IS MAINTAINED IN A CLEAN, SANITARY, AND SAFE CONDITION AT ALL TIMES SAN MARCOS CITY CODE SUBPART A, CHAP. 14, ART. 2, SEC. 14.026, \$3305.4 STREET CLEANING. ADJACENT STREETS TO THE ROCKS AND OTHER CONSTRUCTION DEBRIS AT ALL TIMES. DIRT, GRAVEL, ETC., SHALL NOT BE SWEPT, WASHED, OR OTHERWISE

DEPOSITED INTO UNPROTECTED STORM WATER CONVEYANCE SYSTEMS SAN MARCOS CITY CODE SUBPART A, CHAP. 14, ART. 2, SEC. 14.026, §3305.5 SPOILS PILES. ALL SPOILS PILES SHALL BE UTILIZED ON SITE OR REMOVED FROM CONSTRUCTION SITES AS HEIGHT, VOLUME AND FOOTPRINT, AND IN NO CASE SHALL PILES EXCEED EIGHT FEET IN HEIGHT. SEEDING OR COVERING OF

NSPECTIONS ÉE APPROVED UNTIL ALL SPOILS PILES HAVE BEEN REMOVED FROM CONSTRUCTION SITES

CHANGES.

8. THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED AS NEEDED DURING THE PROJECT TO COVER ALL AREAS DISTURBED DURING DEMOLITION, GRADING, CONSTRUCTION, STORAGE, STOCKPILING, PARKING, ETC., PER TXR150000 PARTS I AND III.G.4.(c) AND (d) ADDITIONAL ESCS MAY BE REQUIRED POND OR OTHER DISTURBED SLOPES 3:1 OF FLATTER MUST BE PERMANENTLY STABILIZED WITH SEED AND BIODEGRADABLE SOIL RETENTION BLANKETS WITH NO PLASTIC NETTING. DISTURBED SLOPES EXCEEDING 3:1 REQUIRE SEED AND BLANKETS OR EQUIVALENT UNTIL REVEGETATION IS ESTABLISHED. OR SOD. [CoSM 2/15/2019 MODIFICATIONS TO THE COA AND TXDOT STANDARD SPECIFICATIONS.]

MARCOS STANDARD DETAILS AND TECHNICAL SPECIFICATIONS. TREE

PROTECTION IS REQUIRED TO KEEP ALL FORMS OF ACTIVITY OUTSIDE OF ROOT PROTECTION ZONES INCLUDING VEHICLE PARKING, GRADING OPERATIONS, CONSTRUCTION, NEEDED WORKSPACE ALONG THE EDGE(S) OF CONSTRUCTION, STORAGE OF MATERIALS. EQUIPMENT, OR SPOILS, ETC. TREE PROTECTION SHOULD NOT BE MOVED DURING DEMOLITION, GRADING OR CONSTRUCTION. INSTALL TREE PROTECTION AS SHOWN AT EDGES OF ROOT PROTECTION ZONES, TO THE EXTENT FEASIBLE NEAR GRADING, CONSTRUCTION, ETC., FOR ALL TREES TO BE PRESERVED, PER LDC SECTION 6.4.2.4.A. AND STANDARD DETAILS 610S-1-SM, 610S-2-SM, 610S-4-SM. USE MODIFIED MEASURES IN NOTES 1 AND 10 OF STANDARD DETAIL 610S-4-SM SINCE TREE PROTECTION LOCATION HAD TO BE ADJUSTED FOR GRADING AND CONSTRUCTION IN THIS PROJECT 12. IF 'PRESERVED' TREES DO NOT SURVIVE DEMOLITION, GRADING, AND/OR CONSTRUCTION, MITIGATION, WILL BE REQUIRED.

3. CONTRACTOR MUST HAVE A CISEC, CESSWI, OR QCIS CONDUCT WEEKLY SWPPP INSPECTIONS AND DOCUMENT OER TXR150000 PART III.F.7 AND CITY CODE SECTIONS 86.523 AND 86.529(b)(9) OR 86.529(c)(10). CONTRACTOR MUST MAINTAIN ALL ESC MEASURES, ADDRESS ALL IDENTIFIED CORRECTIVE ACTIONS AND DOCUMENT PER TXR150000 PART III.F.6-7 AND CITY CODE SECTION 86.529(c)(11).

4. CONCRETE WASTE, CONCRETE WASH WATER, AND MASONRY/STUCCO/PAINT MIXING AND WASH WATER, AS APPLICABLE, MUST BE CONTAINED IN A PRE-MADE STRUCTURE(S), LINED STRUCTURE(S), OR LINED PIT(S) PER TXR150000 PART V.D. 15. ANY EXISTING STORMWATER INLETS WITHIN 200' OF THE LOC MUST HAVE

INLET PROTECTION. STORMWATER INLET PROTECTION IS ALSO REQUIRED AS NEW STORMWATER INLETS ARE ADDED TO THE SITE, IF APPLICABLE. 16. ALL UNCOVERED AREAS DISTURBED DURING THE PROJECT, INCLUDING ANY OFFSITE DISTURBED AREAS, MUST BE PERMANENTLY STABILIZED WITH SOD INSTALLATION, HYDROMULCH SEEDING, PLANTING, AND/OR INSTALLATION OF OTHER APPROVED LANDSCAPE MATERIALS, PROVIDED THAT LDC MINIMUM LANDSCAPING REQUIREMENTS ARE MET. REMOVE ALL DEBRIS, FIX ALL RUTS, AND FINAL GRADES ALL DISTURBED AREAS; DO NOT BURY OR SOD/SEED OVER DEBRIS OR SILT FENCE, ETC. TILL SUBGRADE TO 6" DEPTH OR INSTALL AT LEAST 6" OF SCREENED TOP SOIL (NOT GRADED CLAY, BASE MATERIAL, OR SAND) PRIOR TO VEGETATING. PROVIDE TEMPORARY (OR PERMANENT IF INCLUDED IN PLANS) WATERING SUFFICIENT TO ACHIEVE PERENNIAL VEGETATIVE COVER OF AT LEAST 70% DENSITY EVENLY DISTRIBUTED WITH NO LARGE BARE AREAS PER TXR150000 PARTS 1.B, III.G.1.(g) AND (h), AND III.G.2. WINTER RYE OR ANNUAL RYEGRASS ALONE ARE NOT ACCEPTED AS

PERMANENT STABILIZATION.

1. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE AVAILABLE (HARD COPY, INCLUDING A FULL-SIZE SITE MAP) AT THE

WHERE NO WORK IS DONE ON A SITE PORTION(S) WITHIN THE LOC, ROUGH GRADING COMPLETION AND CONSTRUCTION START, BETWEEN CONSTRUCTION START AND FINAL GRADING, BETWEEN CONSTRUCTION AND FINAL STABILZATION, ETC.. USE TEMPORARY (OR PERMANENT) BEFORE ANY DIRT WORK STARTS, ALL EROSION AND SEDIMENTATION CONTROLS (ESCs), AND TREE PROTECTION IF APPLICABLE, MUST BE INSTALLED PER COSM STANDARD DETAILS AND THIS CITY-APPROVED ENVIRONMENTAL INSPECTOR AT AN ONSITE PRE-CON MEETING. CALL

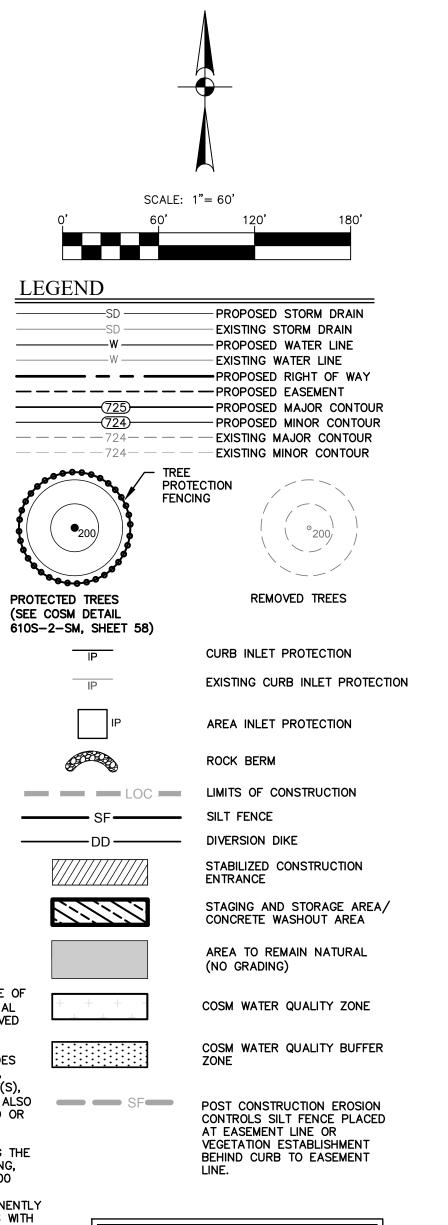
CONSTRUCTION SITE SHALL BE MAINTAINED AND FREE OF DIRT, MUD,

SOON AS POSSIBLE. WHILE ONSITE, ALL PILES MUST BE MINIMIZED IN

UNDISTURBED PORTIONS OF SPOILS PILES IS REQUIRED IF THE PILES WILL NOT BE INCREASED OR DECREASED FOR MORE THAN 14 CALENDAR DAYS, AS SPECIFIED IN TPDES CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN REGULATIONS, REGARDLESS OF THE SIZE OF THE SITE AND/OR PILE. IN NO CASE SHALL SITE AND/OR BUILDING FINAL

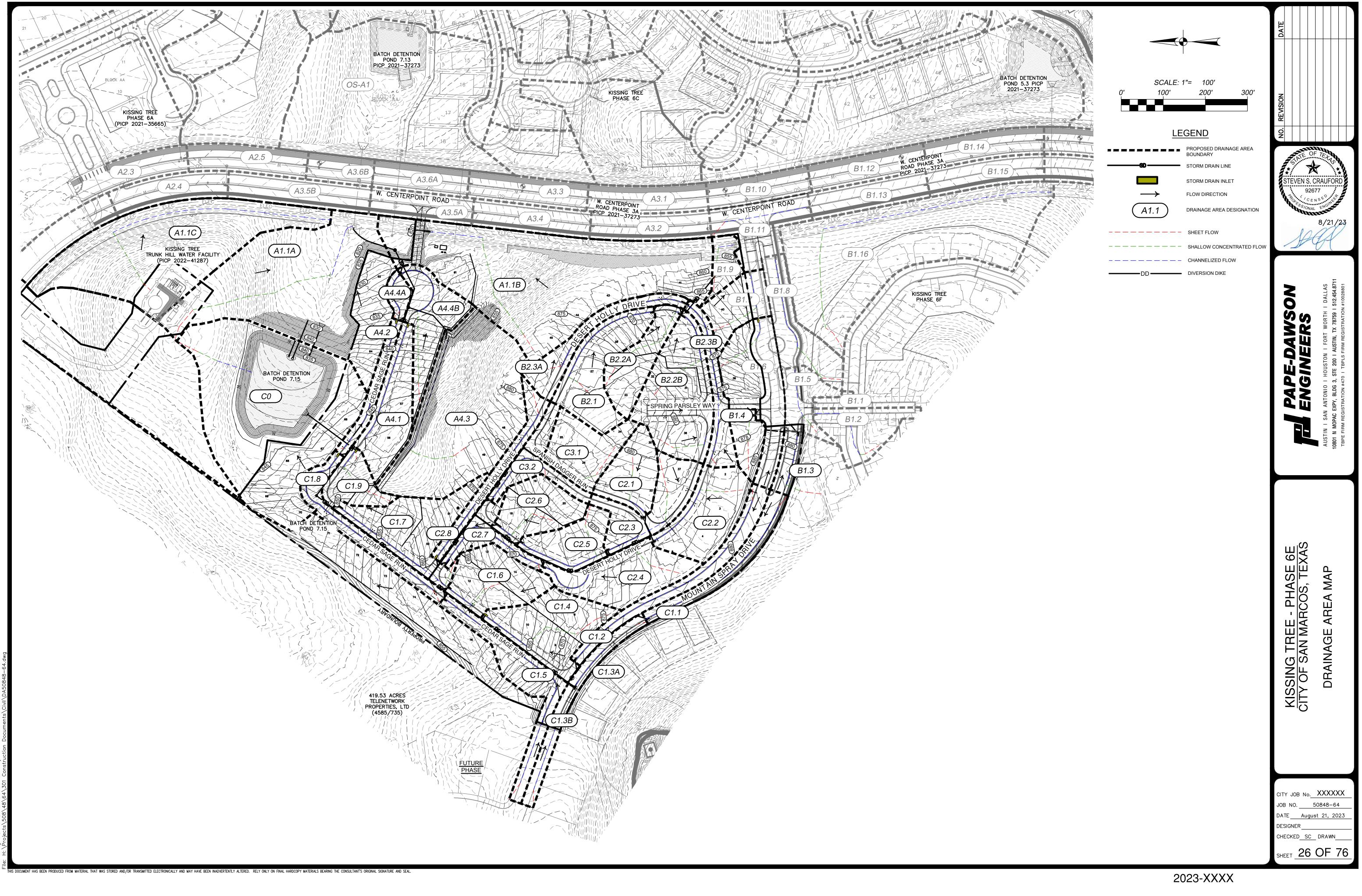
PER TXR150000 PART III.F.1(m)., LOCATIONS OF THE FOLLOWING, AS APPLICABLE, MUST BE MARKED ON THIS SHEET IN THE FIELD: THE TPDES CONSTRUCTION SITE NOTICE POSTING IN PUBLIC VIEW, SPOILS STORAGE, CONCRETE WASHOUT, DUMPSTERS, PORTABLE TOLIET(S), FUELING POINT(S), AND/OR OTHER POTENTIAL CONTAMINANT SOURCES. THIS SHEET MUST ALSO BE ÚPDATED AS THESE POTENTIAL CONTAMINANT SOURCES ARE MOVED OR OTHER CHANGES OCCUR ONSITE. DATE AND INITIAL ALL PEN AN DINK

. PER LDC SECTION 6.4.2.4.A., ALL PRESERVED TREES ON A DEMOLITION OR CONSTRUCTION SITE SHALL BE PROVIDED PROTECTION FOR A MINIMUM OF 75% OF THEIR ROOT PROTECTION ZONE IN ACCORDANCE WITH CITY OF SAN



PER THE PASO ROBLES PDD, APPENDIX VI "CODE MODIFICATION COMPARISON TABLE", PAGE 4 OF 7; SECTION 5.1.1.5(a) OF THE CITY OF SAN MARCOS LAND DEVELOPMENT CODE HAS BEEN STRICKEN FROM APPLICATION ON THIS PROJECT. THIS PROJECT IS NOT SUBJECT TO IMPERVIOUS COVER LIMITATIONS ON HILLSIDES.

DJE DJE DJE DJE DJE DJE DJE DJE DJE DJE	7
FI PAPE-DAWSON ENGINEERS	AUSTIN I SAN ANTONIO I HOUSTON I FORT WORTH I DALLAS 10801 N MOPAC EXPY, BLDG 3, STE 200 I AUSTIN, TX 78759 I 512.454.8711 TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028801
KISSING TREE - PHASE 6E CITY OF SAN MARCOS, TEXAS	EROSION & SEDIMENTATION CONTROL PLAN 2 OF 2
CITY JOB No JOB NO5 DATEAugus DESIGNER CHECKEDS SHEET 08	0848-64 t 21, 2023 DRAWN



Jate: Aug 21, 2023, 9:29am User ID: jbennett File: H:\Proiects\508\48\64\301 Construction Documents\Civil\DA50848-6

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

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	KISSING TREE P	
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 | Dam | :
 | 100 year | | Wajaktad C | | |
| | D.A.

 | AREA
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121,097

 | AREA
(AC)
2.78
 | # homes
3.5 | L. Street | 0.39
 | 2.39
 | %IC
13.87%
 | Pervious C 0.39
 | PC * C
0.93
 | | * C
34 | oighted C
 | Perv C 0.46 | PC * C
1.10
 | Imperv
C
0.96 | IC * C
0.37 | 0.53 | DA | |
| | A1.1B
A1.1C
 | 139,392
98,010

 | 3.20
2.25
 | 6.25
0 | 107
0 | 0.59
 | 2.61
2.07
 | 18.31%
8.05%
 | 0.39
 | 1.02
 | 0.87 0. | 51
16 | 0.48
 | 0.46 | 1.20
0.95
 | 0.96 | 0.56 | 0.55 | | |
| | A1.1
Culvert B
 | 358,499
128,502

 | 8.23
2.95
 | 9.75
5.25 | 107
0 | 0.89
0.45
 | 7.34
2.50
 | 10.77%
15.28%
 | 0.39
0.39
 |
 | | 77
39 | 0.44
0.46
 | 0.46 | 3.38
1.15
 | 0.96
0.96 | 0.85
0.43 | 0.51
0.54 | | |
| | A4.1
A4.2
 | 27,007
9,148

 | 0.62
0.21
 | 3
0 | 320
355 | 0.36
0.13
 | 0.26
0.08
 | 57.53%
60.26%
 | 0.39
 | 0.03
 | 0.87 0. | 31
11 | 0.67
0.68
 | 0.46 | 0.12
0.04
 | 0.96
0.96 | 0.34
0.12 | 0.75
0.76 | | |
| | A4.3
A4.4A
 | 93,654
4,792

 | 2.15
0.11
 | 3.25
0 | 0 120 | 0.28
 | 1.87
0.04
 | 12.98%
65.71%
 | 0.39
 | 0.01
 | 0.87 0. | 24
06 | 0.45
 | 0.46 | 0.86
 | 0.96 | 0.27 | 0.52 | | |
| | A4.4B
A4.4
 | 25,700
30,492

 | 0.59
 | 2.50
3 | 150
270 | 0.34
 | 0.25
 | 57.86%
59.09%
 | 0.39
 | 0.11
 | 0.87 0. | 30
36 | 0.67
 | 0.46 | 0.11
 | 0.96 | 0.33 | 0.75 | SEVISI | |
| | B1.1
B1.2
B1.3
 | 3,049
18,295
23,522

 | 0.07
0.42
0.54
 | 0
1.25
1.5 | 116
365
144 | 0.04
0.42
0.24
 | 0.03
0.00
0.30
 | 51.36%
100.50%
44.24%
 | 0.39
0.39
0.39
 | 0.00
 | 0.87 0. | 03
37
21 | 0.64
0.87
0.60
 | 0.46
0.46
0.46 | 0.02
0.00
0.14
 | 0.96
0.96
0.96 | 0.03
0.41
0.23 | 0.72
0.96
0.68 | - CO | |
| | B1.3
B1.4
B1.5
 | 10,019
13,939

 | 0.54 0.23 0.32
 | 0.5 | 64
167 | 0.24
 | 0.30
 | 27.28%
51.31%
 | 0.39
 | 0.07
 | 0.87 0. | 05
14 | 0.52
 | 0.46 | 0.14 0.08 0.07
 | 0.96 | 0.23 | 0.60 | Z | |
| | B1.6
B1.7
 | 36,590
16,988

 | 0.84
 | 1.5
1.5 | 520
113 | 0.46
 | 0.38
 | 55.24%
48.97%
 | 0.39
 | 0.15
 | 0.87 0. | 40
17 | 0.66
 | 0.46 | 0.17 0.09
 | 0.96 | 0.45 | 0.72 | STATE O | OF TEXA |
| | B1.8
B1.9
 | 23,958
7,841

 | 0.55
 | 1 | 269 | 0.26
 | 0.29
 | 47.04%
 | 0.39
 | 0.11
 | 0.87 0. | 23
00 | 0.62
 | 0.46 | 0.13
 | 0.96 | 0.25 | 0.70 | | ₹ |
| | B1.10
B1.11
 | 16,074
23,958

 | 0.37
0.55
 | 0 | 250
331 | 0.22
0.29
 | 0.15
 | 59.10%
53.04%
 | 0.39
 | 0.06
 | 0.87 0. | 19
25 | 0.67
0.64
 | 0.46 | 0.07 0.12
 | 0.96 | 0.21
0.28 | 0.76
0.73 | | CRAUFORD |
| | B1.12
B1.13
 | 18,208
18,513

 | 0.42
0.43
 | 0 | 280
285 | 0.24
0.22
 | 0.17
0.20
 | 58.44%
52.34%
 | 0.39
0.39
 |
 | | 21
19 | 0.67
0.64
 | 0.46 | 0.08
 | 0.96
0.96 | 0.23
0.21 | 0.75
0.72 | POL CE | NSED |
| | B1.14
B1.15
 | 18,513
18,208

 | 0.43
0.42
 | 0 | 279
286 | 0.24
0.22
 | 0.18
0.19
 | 57.27%
53.40%
 | 0.39
 | 0.08
 | 0.87 0. | 21
19 | 0.66
0.65
 | 0.46 | 0.08
 | 0.96
0.96 | 0.23
0.21 | 0.75
0.73 | S STONA | |
| | B1.16
B2.1
 | 122,839
32,234

 | 2.82
0.74
 | 6
3.5 | 0
357 | 0.52
 | 2.30
0.33
 | 18.26%
55.55%
 | 0.39
 | 0.13
 | 0.87 0. | 45
36 | 0.48
 | 0.46 | 1.06
0.15
 | 0.96 | 0.49 | 0.55
0.74 | la | 8/21/23 |
| | B2.2A
B2.2B
 | 20,038
45,302

 | 0.46
 | 2
3.5 | 74
529 | 0.19
 | 0.27
 | 42.31%
44.65%
 | 0.39
 | 0.22
 | 0.87 0. | 17
40 | 0.59
 | 0.46 | 0.12
 | 0.96 | 0.19 | 0.67 | A | H |
| | B2.2
B2.3A
B2.3B
 | 65,340
16,988
14,810

 | 1.50
0.39
0.34
 | 6
0.5
1 | 603
432
410 | 0.66
0.18
0.21
 | 0.84
0.21
0.13
 | 43.93%
45.33%
62.62%
 | 0.39
0.39
0.39
 | 0.08
 | 0.87 0. | 57
15
19 | 0.60
0.61
0.69
 | 0.46
0.46
0.46 | 0.39
0.10
0.06
 | 0.96
0.96
0.96 | 0.63
0.17
0.20 | 0.68
0.69
0.77 | | ···, |
| | B2.3B
B2.3
C0
 | 31,799
135,036

 | 0.73
 | 1.5 | 842 | 0.39
 | 0.34
 | 53.38%
15.23%
 | 0.39
 |
 | 0.87 0. | 34
41 | 0.65
 | 0.46 | 0.16
 | 0.96 | 0.37 | 0.73
0.54 | | _ |
| | C1.1
C1.2
 | 16,553
21,780

 | 0.38
 | 0 | 441
635 | 0.24
 | 0.14
 | 64.29%
51.02%
 | 0.39
 | 0.05
 | 0.87 0. | 21
22 | 0.70
 | 0.46 | 0.06
 | 0.96 | 0.23 | 0.78 | | DALLAS
512.454.871
#10028801 |
| | C1.3A
C1.3B
 | 7,144
9,148

 | 0.16
0.21
 | 0 | 245
307 | 0.15
0.17
 | 0.01
 | 92.28%
79.45%
 | 0.39
 | 0.00
 | 0.87 0. | 13
15 | 0.83
 | 0.46 | 0.01 0.02
 | 0.96 | 0.15
0.16 | 0.92
0.86 | Ō | I DALLAS
I 512.454.87
v #10028801 |
| | C1.3
C1.4
 | 16,291
34,848

 | 0.37
0.80
 | 0 4 | 552
311 | 0.32
0.44
 | 0.06
0.36
 | 85.08%
55.53%
 | 0.39
 | 0.02 0.14
 | 0.87 0. | 28
39 | 0.80
0.66
 | 0.46 | 0.03
0.16
 | 0.96
0.96 | 0.31
0.43 | 0.89
0.74 | SS | USTON I FORT WORTH I DALLAS
: 200 I AUSTIN, TX 78759 I 512.454.87
TBPLS FIRM REGISTRATION #10028801 |
| | C1.5
C1.6
 | 26,572
27,443

 | 0.61
0.63
 | 1.5
3.5 | 387
108 | 0.27
0.33
 | 0.34
 | 44.16%
53.00%
 | 0.39
 | 0.12
 | 0.87 0. | 23
29 | 0.60
0.64
 | 0.46 | 0.16
0.14
 | 0.96 | 0.26
0.32 | 0.68
0.72 | IZK | FORT W
<mark>STIN, T</mark> X [.]
M REGIST |
| | C1.7
C1.8
 | 36,155
18,731

 | 0.83
 | 4 | 365
544 | 0.46
 | 0.37
 | 55.00%
46.90%
 | 0.39
 | 0.09
 | 0.87 0. | 40
18 | 0.65
 | 0.46 | 0.17
 | 0.96 | 0.44 | 0.73 | DA | I I FORT
AUSTIN,
FIRM REC |
| | C1.9
C2.1
C2.2
 | 13,939
20,038
30,492

 | 0.32
0.46
0.70
 | 1 3 | 183
136
224 | 0.14
0.30
0.33
 | 0.18
0.16
0.37
 | 44.55%
65.14%
46.70%
 | 0.39
0.39
0.39
 | 0.06
 | 0.87 0. | 12
26
28 | 0.60
0.70
0.61
 | 0.46
0.46
0.46 | 0.08
0.07
0.17
 | 0.96
0.96
0.96 | 0.14
0.29
0.31 | 0.68
0.79
0.69 | | HOUSTON
STE 200 I
I TBPLS I |
| | C2.2
C2.3
C2.4
 | 25,265
32,234

 | 0.70
 | 3
1.5
2.5 | 713
319 | 0.35
 | 0.23
 | 48.70%
60.30%
42.36%
 | 0.39
 | 0.09
 | 0.87 0. | 20
30
27 | 0.68
 | 0.46 | 0.17
 | 0.96 | 0.31 | 0.69 | | НО
3, STE
470 |
| | C2.5
C2.6
 | 19,166
22,651

 | 0.44
 | 2.0 | 241
75 | 0.25
 | 0.19
 | 55.99%
53.99%
 | 0.39
 | 0.08
 | 0.87 0. | 21
21
24 | 0.66
 | 0.46 | 0.09
 | 0.96 | 0.24 | 0.74 | IZZ | J ANTONIO
EXPY, BLDG
ISTRATION # |
| | C2.7
C2.8
 | 13,068
14,375

 | 0.30
 | 0.5 | 390
465 | 0.16
 | 0.14
 | 54.60%
43.67%
 | 0.39
 | 0.05
 | 0.87 0. | 14
13 | 0.65
 | 0.46 | 0.06
 | 0.96 | 0.16 | 0.73 | L C U | N ANT
EXPY,
SISTRA |
| | C3.1
C3.2
 | 23,087
15,246

 | 0.53
0.35
 | 3
0.5 | 149
475 | 0.30
0.19
 | 0.23
 | 57.30%
54.32%
 | 0.39
0.39
 |
 | | 26
17 | 0.67
0.65
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 | 0.96 | 0.29
0.18 | 0.75
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0801 N N
TBPE FIR |
| DRAINAGE
AREA | INLET AREA
NUMBER (acres)
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 |
 | (ft) | th Manning's
(n) | Slope
ft/ft
 | Tc Leng
(min) (ft)
 | th Paved/
Unpaved
 | Slope
ft/ft
 | Tc Lengt
(min) (ft)
 | h Manning's
(n) | Slope
ft/ft | Velocity
ft/s
 | Tc T
(min) (mi | lative IN
c I 25y
in) (in/h
 | ITENSITY
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yr Q 2
r) (cfs | SCHARGE
25 Q 100
6) (cfs) | | AUSTIN I SAN ANTONIC
10801 N MOPAC EXPY, BLDG
TBPE FIRM REGISTRATION |
| AREA
A1.1A
A1.1B | NUMBER (acres) A1.1A 2.78 A1.1B 3.20
 | C25 C100 0.46 0.53 0.48 0.55

 | 1.27
1.53
 | (ft)
1.47 84
1.76 45 | th Manning's
(n)
0.24
0.24 | Slope
ft/ft
0.026
0.103
 | Tc Leng (min) (ft) 9.8 342 3.4 256
 | th Paved/
Unpaved
2 U
3 U
 | Slope ft/ft 0.117 0.208
 | Tc Lengt (min) (ft) 1.0 131 0.6 124
 | h Manning's
(n)
0.02
0.02 | Slope
ft/ft
0.034
0.043 | Velocity
ft/s
5.3
6.0
 | Tc T (min) (min) 0.4 11. 0.3 5.0 | Iative IN c I 25y in) (in/h 26 8.6 D0 11.4
 | ITENSITY
yr I 100
r) (in/h
5 10.9
4 14.7 | DI yr Q 2 r) (cfs 0 10.1 7 17.1 | SCHARGE
25 Q 100
s) (cfs)
9 16.1
4 25.9 | | AUSTIN
10801 N I
TBPE FI |
| AREA
A1.1A
A1.1B
A1.1C
A1.1 | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1 8.23
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51

 | 1.27
1.53
0.96
3.64
 | (ft)
1.47 84
1.76 45
1.13 24
4.23 - | th Manning's
(n)
0.24
0.24
0.24
- | Slope
ft/ft
0.026
0.103
0.025
-
 | Tc Leng (min) (ft) 9.8 342 3.4 256 3.7 141 - -
 | th Paved/
Unpaved
2 U
3 U
4 U
5 U
4 U
4 U
4 U
4 U
4 C
 | Slope
ft/ft
0.117
0.208
0.220
-
 | Tc Lengt (min) (ft) 1.0 131 0.6 124 0.3 528 - -
 | Manning's
(n)
0.02
0.02
0.02
- | Slope
ft/ft
0.034
0.043
0.021
- | Velocity ft/s 5.3 6.0 4.2 -
 | Tc Tc (min) (min) 0.4 11. 0.3 5.0 2.1 6.0 - 11. | lative IN c I 25y in) (in/h 26 8.6 00 11.4 07 10.8 26 8.6
 | ITENSITY
yr I 100
r) (in/hi
5 10.9
4 14.7
3 13.8
5 10.9 | DI yr Q 2 r) (cfs 0 10.1 7 17.3 3 10.3 0 31.1 | SCHARGE
25 Q 100
5) (cfs)
9 16.1
4 25.9
4 15.6
2 46.3 | | AUSTIN
10801 N I
TBPE FI |
| AREA
A1.1A
A1.1B
A1.1C
A1.1
Culvert B
A4.1 | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1 8.23 Culvert B 2.95 A4.1 0.62
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.54 0.51 0.46 0.54

 | 1.27
1.53
0.96
3.64
1.37
0.41
 | (ft)
1.47 84
1.76 45
1.13 24
4.23 -
1.58 45
0.46 28 | Manning's
(n) 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 | Slope
ft/ft
0.026
0.103
0.025
-
0.103
0.029
 | Tc Leng
(ft) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 142 - - 3.4 256 3.7 0
 | th Paved/
Unpaved
2 U
3 U
4 U
5 U
5 U
5 U
4 U
5 U
4 U
 | Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.208 0.208 0.208 0.208
 | Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.0 282
 | h Manning's
(n)
0.02
0.02
0.02
0.02
-
0.24
0.02 | Slope
ft/ft
0.034
0.043
0.021
-
0.043
0.032 | Velocity ft/s 5.3 6.0 4.2 - 0.5 5.2
 | Tc Tr (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 | Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 26 8.6 16 9.7 20 11.4
 | ITENSITY
/r I 100
r) (in/h
10.9
10.9
13.8
10.9
12.4
14.7 | DI yr Q 2 r) (cfs 0 10. 7 17. 3 10. 0 31. 1 13. 7 4.7 | SCHARGE 25 Q 100 (cfs) (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 | | AUSTIN
10801 N
TBPE FI |
| AREA
A1.1A
A1.1B
A1.1C
A1.1
Culvert B | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1 8.23 Culvert B 2.95
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54

 | 1.27
1.53
0.96
3.64
1.37
 | (ft)
1.47 84
1.76 45
1.13 24
4.23 -
1.58 45 | Manning's
(n) 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 | Slope
ft/ft
0.026
0.103
0.025
-
0.103
 | Tc Leng (min) (ft) 9.8 342 3.4 256 3.7 141 - - 3.4 256
 | th Paved/
Unpaved
2 U
3 U
4 U
5 U
5 U
5 U
5 U
5 U
0 U
0 U
 | Slope
ft/ft 0.117 0.208 0.220 - 0.208
 | Tc Lengt (min) (ft) 1.0 131 0.6 124 0.3 528 - - 0.6 124
 | h Manning's
(n)
0.02
0.02
0.02
0.02
-
0.24
0.02
0.02
0.02 | Slope
ft/ft
0.034
0.043
0.021
-
0.043 | Velocity ft/s 5.3 6.0 4.2 - 0.5 5.2 5.2
 | Tc Tr (min) (min) 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 | Iative IN c I 25y in) (in/h 26 8.6 00 11.4 07 10.8 26 8.6 16 9.7 00 11.4 00 11.4 00 11.4 54 10.5
 | ITENSITY
yr I 1009
r) (in/hu
10.9
10.9
14 14.7
3 13.8
10.9
12.4
4 14.7
4 14.7
5 13.5 | DI yr Q 2 r) (cfs 0 10.1 7 17.1 3 10.2 0 31.1 4 13.2 7 4.7 7 1.6 5 10.1 | SCHARGE 25 Q 100 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 6 2.4 2 15.2 | | AUSTIN
10801 N I
TBPE FI |
| AREA
A1.1A
A1.1B
A1.1C
A1.1
Culvert B
A4.1
A4.2
A4.3 | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1 8.23 Culvert B 2.95 A4.1 0.62 A4.2 0.21 A4.3 2.15
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.67 0.75 0.68 0.76 0.45 0.52

 | 1.27
1.53
0.96
3.64
1.37
0.41
0.14
0.97
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 | Manning's
(n) 0.24 | Slope
ft/ft
0.026
0.103
0.025
-
0.103
0.029
0.032
0.029
0.032
0.028
0.074
0.070
-
 | Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 109 2.0 0 3.9 170 - -
 | th Paved/
Unpaved
2 U
3 U
4 U
5 U
5 U
5 U
5 U
5 U
4 U
4 U
4 U
9 U
4 U
 | Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.208 0.020 0.020 0.020 0.020 0.017
 | Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278
 | h Manning's
(n)
0.02
0.02
0.02
-
0.02
-
0.02
0.02
0.02 | Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.032 0.032 0.032 0.037 | Velocity ft/s 5.3 6.0 4.2 - 0.5 5.2 5.5
 | Tc Tr (min) (min) 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 - 5.0 | Iative IN c I 25y in) (in/h 26 8.6 20 11.4 27 10.8 26 8.6 16 9.7 20 11.4 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.3 207 11.3
 | ITENSITY
yr I 1009
r) (in/hi
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11.09 | DI yr Q 2 r) (cfs 0 10.1 7 17.1 3 10.3 0 31.1 1 13.3 7 4.7 7 1.6 5 10.2 | SCHARGE 25 Q 100 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 6 2.4 2 15.2 9 1.3 5 6.5 | | AUSTIN
10801 N
TBPE FI |
| AREA
A1.1A
A1.1B
A1.1C
A1.1
Culvert B
A4.1
A4.2
A4.3
A4.43
A4.4B
A4.4B
A4.4
B1.1
B1.2 | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1C 2.25 A1.1 8.23 Culvert B 2.95 A4.1 0.62 A4.2 0.21 A4.3 2.15 A4.4A 0.11 A4.4B 0.59 A4.4 0.70 B1.1 0.07 B1.2 0.42
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.67 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.72 0.64 0.72 0.87 0.96

 | 1.27 1.53 0.96 3.64 1.37 0.41 0.14 0.97 0.08 0.39 0.47 0.04 0.37
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 | Manning's
(n) 0.24 | Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.020 0.023
 | Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 109 2.0 0 3.9 170 - - 2.7 0 5.3 12
 | Paved/
Unpaved 2 U 2 U 3 U 4 U 5 U 6 U 7 U 8 U 9 U 9 U 9 U 9 U 9 U 9 U 9 U 9 U 9 U 9 U 9 U
 | Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.200 0.020 0.020 0.020 0.059 - 0.010 0.020
 | Tc Lengt
(ft) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171
 | Manning's
(n) 0.02 | Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.035 0.043 0.043 | Velocity Ft/s 5.3 6 4.2 - 0.5 5 5.2 5 5.5 6 5.8 - 8.4 5
 | Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 0.1 5.0 0.5 5.8 | Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 26 8.6 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.2 20 11.2 20 11.2 20 11.2 20 11.2 20 11.2 20 11.2 20 11.2 20 11.2 20 11.2 21 23
 | ITENSITY
/r I 100
r) (in/h
5 10.9
4 14.7
3 13.8
5 10.9
4 14.7
4 14.7
4 14.7
5 13.5
4 14.7
3 14.6
3 14.6
3 14.6
4 14.7
9 14.0 | DI yr Q 2 r) (cfs 0 10.1 7 17.1 3 10.1 7 17.1 3 10.1 7 1.6 7 1.6 5 10 7 1.6 5 5.5 6 4.5 5 5.5 7 0.5 0 4.0 | SCHARGE 25 Q 100 (cfs) (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 6 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 0 5.7 | E
AS | AUSTIN
10801 N I
TBPE FI |
| AREA
A1.1A
A1.1B
A1.1C
A1.1
Culvert B
A4.1
A4.2
A4.3
A4.4
A4.4B
A4.4B
A4.4B
A4.4
B1.1
B1.2
B1.3
B1.4 | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1B 3.20 A1.1C 2.25 A1.1C 2.25 A1.1 8.23 Culvert B 2.95 A4.1 0.62 A4.2 0.21 A4.3 2.15 A4.4B 0.59 A4.4B 0.59 A4.4 0.70 B1.1 0.07 B1.2 0.42 B1.3 0.54 B1.4 0.23
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.46 0.54 0.46 0.54 0.67 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.76 0.71 0.79 0.67 0.76 0.67 0.76 0.67 0.76 0.67 0.76 0.67 0.76 0.64 0.72 0.87 0.96 0.60 0.68 0.52 0.60

 | 1.27 1.53 0.96 3.64 1.37 0.41 0.14 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 | Manning's
(n) 0.24 | Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.020 0.028 0.020 0.028 0.049 0.016
 | Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 108 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63
 | Paved/ Unpaved 2 2 2 3 4 5 5 6 7 6 7 6 7 <t< td=""><td>Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.200 0.020 0.020 0.020 0.017 0.059 - 0.010 0.020 0.010 0.020</td><td>Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4</td><td>Manning's
(n) 0.02</td><td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.037 0.049 0.041 - 0.085 0.043 0.033 0.008</td><td>Velocity ft/s 5.3 6.0 4.2 - 0.5 5.2 5.5 6.4 5.8 - 8.4 5.9 5.2 2.6</td><td>Tc T (min) (min) 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 - 5.0 0.1 5.0 0.5 5.8 0.4 5.5 0.4 5.5</td><td>Iative IN c I 25y in) (in/h 26 8.6 00 11.4 27 10.8 26 8.6 00 11.4 26 8.6 16 9.7 20 11.4 54 10.5 27 11.3 20 11.4 54 10.5 20 11.4 53 10.5 58 11.0 68 8.8</td><td>ITENSITY
yr I 1009
r)
(in/hu
10.9
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13.13.8
10.9
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 | Tc T (min) (min) 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 - 5.0 0.1 5.0 0.5 5.8 0.4 5.5 0.4 5.5 | Iative IN c I 25y in) (in/h 26 8.6 00 11.4 27 10.8 26 8.6 00 11.4 26 8.6 16 9.7 20 11.4 54 10.5 27 11.3 20 11.4 54 10.5 20 11.4 53 10.5 58 11.0 68 8.8
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 | 1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 | Manning's
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 | Tc Lengt
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 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.46 0.54 0.46 0.54 0.67 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.76 0.67 0.76 0.67 0.76 0.67 0.76 0.67 0.75 0.67 0.76 0.67 0.76 0.67 0.76 0.67 0.76 0.64 0.72 0.60 0.68 0.52 0.60 0.64 0.72 0.66 0.74 0.63 0.70 0.62 0.70

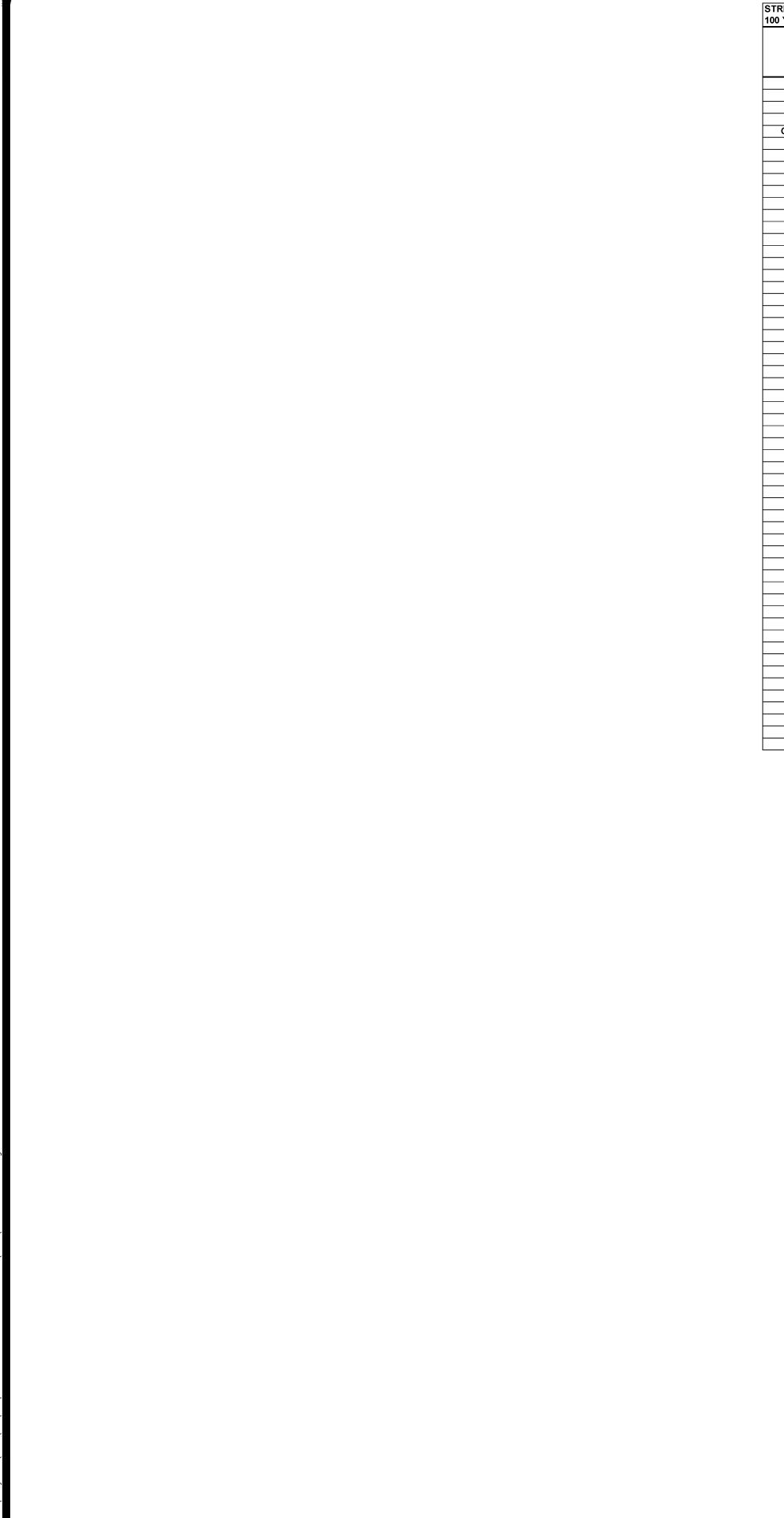
 | 1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.34
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 | Manning's
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 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.45 0.54 0.67 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.76 0.67 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.66 0.74 0.66 0.74 0.63 0.70

 | 1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 | Manning's
(n) 0.24 | Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.020 0.028 0.049 0.016 0.053 0.057 0.043
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(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 105 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76
 | Paved/ Unpaved 2 0 2 0 <t< td=""><td>Slope ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.020 0.059 - 0.010 0.020 0.059 - 0.010 0.020 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042</td><td>Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77</td><td>Manning's
(n) 0.02</td><td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.037 0.049 0.041 - 0.085 0.043 0.033 0.008 0.008 0.008 0.0060 0.046</td><td>Velocity Ft/s 5.3 - 5.3 - 0.5 5.2 5.2 5.2 5.5 - 6.4 - 8.4 - 5.9 - 8.4 - 2.6 - 7.1 6.2 6.6 -</td><td>Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.5 0.2 5.0 - 5.0 0.1 5.0 0.5 5.5 0.4 5.5 0.4 5.5 0.4 5.5 0.4 5.5 0.4 5.5 0.4 5.5 0.1 10. 0.2
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COS, TEX</td><td></td></t<> | Slope ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.020 0.059 - 0.010 0.020 0.059 - 0.010 0.020 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042
 | Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 | Manning's
(n) 0.02 | Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.037 0.049 0.041 - 0.085 0.043 0.033 0.008 0.008 0.008 0.0060 0.046
 | Velocity Ft/s 5.3 - 5.3 - 0.5 5.2 5.2 5.2 5.5 - 6.4 - 8.4 - 5.9 - 8.4 - 2.6 - 7.1 6.2 6.6 -
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COS, TEX | |
| AREA
A1.1A
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 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.46 0.54 0.47 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.76 0.67 0.70 0.67 0.72 0.60 0.68 0.52 0.60 0.64 0.72 0.66 0.74 0.63 0.70 0.62 0.70 0.39 0.46 0.67 0.76

 | 1.27 1.53 0.96 3.64 1.37 0.41 0.14 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.34 0.07 0.25
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 | Manning's
(n) 0.24 | Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.020 0.028 0.049 0.043 0.057 0.043 0.041 0.065 0.018
 | Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 108 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0
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(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210</td><td>Manning's
(n) 0.02</td><td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.032 0.032 0.032 0.032 0.032 0.032 0.043 0.049 0.041 - 0.085 0.043 0.043 0.033 0.008 0.060 0.046 0.057 0.022 0.028</td><td>Velocity Ft/s 5.3 6.0 4.2 - 0.5 5.2 5.2 5.5 6.4 5.8 - 8.4 5.9 5.2 2.6 7.1 6.2 6.6 6.9 4.3 4.8 4.8</td><td>Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 - 5.0 0.1 5.0
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ARCOS, TEX</td><td>REA
1 OF 2</td></t<> | Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.200 0.020 0.020 0.020 0.059 - 0.010 0.020 0.017 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.110 0.020
 | Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210
 | Manning's
(n) 0.02 | Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.032 0.032 0.032 0.032 0.032 0.032 0.043 0.049 0.041 - 0.085 0.043 0.043 0.033 0.008 0.060 0.046 0.057 0.022 0.028 | Velocity Ft/s 5.3 6.0 4.2 - 0.5 5.2 5.2 5.5 6.4 5.8 - 8.4 5.9 5.2 2.6 7.1 6.2 6.6 6.9 4.3 4.8 4.8
 | Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 - 5.0 0.1 5.0 0.4 5.8 0.0 10. 0.3 10. 0.1 10. 0.2 10. 0.5 5.8 0.1 5.0 0.1 5.0 0.1 5.0 0.1 5.0 0.1 5.0 0.1 5.0 0.1 5.0 | Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 20 11.4 27 10.8 26 8.6 16 9.7 20 11.4 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 23 10.5 25 10.1 23 9.7 21 10.8
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ARCOS, TEX | REA
1 OF 2 |
| AREA
A1.1A
A1.1B
A1.1C
A1.1
Culvert B
A4.1
A4.2
A4.3
A4.4A
A4.4B
A4.4B
A4.4B
B1.1
B1.2
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B1.9
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B1.14
B1.15 | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1C 2.25 A1.1C 2.25 A1.1 8.23 Culvert B 2.95 A4.1 0.62 A4.2 0.21 A4.3 2.15 A4.4 0.11 A4.4B 0.59 A4.4B 0.59 A4.4B 0.70 B1.1 0.07 B1.2 0.42 B1.3 0.54 B1.4 0.23 B1.5 0.32 B1.6 0.84 B1.7 0.39 B1.8 0.55 B1.9 0.18 B1.10 0.37 B1.11 0.55 B1.12 0.42 B1.13 0.43 B1.14 0.43 B1.14 0.43
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.47 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.76 0.67 0.75 0.67 0.76 0.67 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.66 0.74 0.63 0.70 0.62 0.70 0.39 0.46 0.67 0.75 0.64 0.73 0.67 0.75 0.64 0.72 0.65 0.73

 | 1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.33 0.12 0.20 0.55 0.24 0.34 0.07 0.25 0.35 0.28 0.27 0.28 0.27
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 | Manning's
(n) 0.24< | Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.020 0.028 0.049 0.043 0.057 0.043 0.041 0.065 0.017 0.036 0.035 0.036 0.035 0.030
 | Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 105 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 7.6 0 5.1 0 5.1 0 5.9 0
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Unpaved 2 U 2 U 3 U 4 U 5 U 6 U 7 0 6 U 7 0 8 U 9 U 9 U 10
 | Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.059 - 0.010 0.020 0.017 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.110 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020
 | Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210 0.0 195 0.0 239 0.0 247 0.0 243
 | Manning's
(n) 0.02< | Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.032 0.043 0.049 0.041 - 0.085 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.043 0.052 0.057 0.028 0.031 0.031 0.034 0.035 | Velocity Ft/s 5.3 6.0 4.2 - 0.5 5.2 5.2 5.5 6.4 5.8 - 8.4 5.9 5.2 2.6 7.1 6.2 6.6 6.9 4.3 4.8 5.1 5.1 5.3 5.4 5.4
 | Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.5 0.2 5.0 0.5 5.6 0.1 5.0 0.5 5.8 0.4 5.5 0.4 5.5 0.4 5.5 0.4 5.5 0.4 5.5 0.4 5.5 0.4 5.5 0.1 10.0 0.2 10.0 0.1 10.0 0.2 10.0 0.5 5.8 0.1 5.0 0.7 7.2 0.7 8.2 0.8 6.0 0.8 6.0 0.8 6.0 | Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 20 11.4 27 10.6 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 23 10.5 24 10.5 25 10.1 26 10.6 21 10.6 23 9.7 21 10.6 26
 | ITENSITY yr I 1009 yr (in/hi 5 10.9 4 14.7 3 13.8 5 10.9 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.6 3 14.6 4 14.7 5 11.2 6 11.2 6 11.2 6 11.2 7 11.2 6 11.2 7 13.0 4 14.7 1 13.0 1 13.0 1 13.0 1 13.0 1 13.9 3 13.9 3 13.4 | DI yr Q 2 r) (cfs 0 10.1 7 17.1 3 10.2 0 31.1 4 13.2 7 1.6 5 10.1 7 1.6 5 10.1 7 1.6 5 10.1 7 0.5 0 4.1 2 1.6 5 5.5 7 0.5 0 4.0 2 3.6 2 1.7 2 1.8 2 1.7 0 3.7 7 0.8 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 <td>SCHARGE 25 Q 100 (cfs) (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 6 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 3 4.1</td> <td>REE - PHASE 6
MARCOS, TEX</td> <td>E AREA
DNS 1 OF 2</td> | SCHARGE 25 Q 100 (cfs) (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 6 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 3 4.1 | REE - PHASE 6
MARCOS, TEX | E AREA
DNS 1 OF 2 |
| AREA
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A1.1B
A1.1C
A1.1
Culvert B
A4.1
A4.2
A4.3
A4.4A
A4.4B
A4.4B
A4.4B
B1.1
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B2.1 | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1C 2.25 A1.1C 2.25 A1.1 8.23 Culvert B 2.95 A4.1 0.62 A4.2 0.21 A4.3 2.15 A4.4 0.11 A4.4B 0.59 A4.4B 0.59 A4.4B 0.59 A4.4B 0.70 B1.1 0.07 B1.2 0.42 B1.3 0.54 B1.4 0.23 B1.5 0.32 B1.6 0.84 B1.7 0.39 B1.8 0.55 B1.9 0.18 B1.10 0.37 B1.11 0.55 B1.12 0.42 B1.13 0.43 B1.14 0.43 B1.15 0.42 B1.16 2.82
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.46 0.54 0.46 0.54 0.46 0.54 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.76 0.71 0.79 0.67 0.75 0.67 0.76 0.63 0.72 0.64 0.72 0.66 0.74 0.63 0.70 0.62 0.70 0.39 0.46 0.67 0.75 0.64 0.72 0.65 0.73 0.65 0.73 0.48 0.55 0.66 <td>1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.34 0.07 0.25 0.35 0.28 0.27 0.28 0.27 1.35 0.49</td> <td>(ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 1.55 61 0.55 35</td> <td>Manning's
(n) 0.24<</td> <td>Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.020 0.028 0.049 0.043 0.057 0.043 0.041 0.065 0.018 0.017 0.036 0.035 0.030 0.034 0.050 0.014</td> <td>Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - -
 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.4 256 3.9 0 3.0 0 4.8 108 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 5.2 0 5.1 0 6.6 0 5.8 237 <</td> <td>Paved/
Unpaved 0</td> <td>Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.017 0.059 - 0.010 0.020 0.017 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.110 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.070 0.019</td> <td>Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210 0.0 239 0.0 241 0.0 243 0.9 549 0.2 264</td> <td>Manning's
(n) 0.02<</td> <td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.032 0.043 0.049 0.041 - 0.085 0.043 0.033 0.043 0.043 0.043 0.043 0.043 0.043 0.057 0.057 0.028 0.028 0.031 0.035 0.034 0.035 0.034</td> <td>Velocity ft/s 5.3 6.0 4.2 - 0.5 5.2 5.2 5.5 6.4 5.8 - 8.4 5.9 5.2 2.6 7.1 6.2 6.6 6.9 4.3 4.8 5.1 5.1 5.3 5.4 5.3 5.4 5.3 6.1 5.3</td> <td>Tc Tr (min) (min) 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 0.1 5.0 0.4 5.8 0.0 10. 0.3 10. 0.1 5.0 0.4 5.8 0.0 10. 0.1 5.0 0.7 7.2 0.7 8.2 0.8 6.0 0.8 5.9 0.8 6.6 1.7 8.4 0.7 7.4</td> <td>Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 27 10.8 26 8.6 27 10.8 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21 10.5 22 10.1 23 9.7 21</td> <td>ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 5 10.9 4 14.7 5 13.8 5 10.9 4 14.7 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.0 0 14.2 11.2 11.2 5 11.2 6 11.2 7 13.0 7 14.0 14.0 14.0 15.0 14.0 16.12.4 13.9 3 13.9 1 12.9 1 13.4 5 12.3</td> <td>DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 7 17.7 3 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 5.5 7 0.5 0 4.0 2 3.6 2 1.6 2 3.6 2 1.6 2 3.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 1.7 0 3.7 7 0.8 0 3.0 0 3.0<!--</td--><td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 3 4.1 9 19.1 0 7.1</td><td>TREE - PHASE 6
AN MARCOS, TEX</td><td>AINAGE AREA
ULATIONS 1 OF 2</td></td>
 | 1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.34 0.07 0.25 0.35 0.28 0.27 0.28 0.27 1.35 0.49
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 1.55 61 0.55 35 | Manning's
(n) 0.24< | Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.020 0.028 0.049 0.043 0.057 0.043 0.041 0.065 0.018 0.017 0.036 0.035 0.030 0.034 0.050 0.014
 | Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.4 256 3.9 0 3.0 0 4.8 108 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 5.2 0 5.1 0 6.6 0 5.8 237 <
 | Paved/
Unpaved 0
 | Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.017 0.059 - 0.010 0.020 0.017 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.110 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.070 0.019
 | Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210 0.0 239 0.0 241 0.0 243 0.9 549 0.2 264
 | Manning's
(n) 0.02< | Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.032 0.043 0.049 0.041 - 0.085 0.043 0.033 0.043 0.043 0.043 0.043 0.043 0.043 0.057 0.057 0.028 0.028 0.031 0.035 0.034 0.035 0.034 | Velocity ft/s 5.3 6.0 4.2 - 0.5 5.2 5.2 5.5 6.4 5.8 - 8.4 5.9 5.2 2.6 7.1 6.2 6.6 6.9 4.3 4.8 5.1 5.1 5.3 5.4 5.3 5.4 5.3 6.1 5.3
 | Tc Tr (min) (min) 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 0.1 5.0 0.4 5.8 0.0 10. 0.3 10. 0.1 5.0 0.4 5.8 0.0 10. 0.1 5.0 0.7 7.2 0.7 8.2 0.8 6.0 0.8 5.9 0.8 6.6 1.7 8.4 0.7 7.4 | Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 27 10.8 26 8.6 27 10.8 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21 10.5 22 10.1 23 9.7 21
 | ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 5 10.9 4 14.7 5 13.8 5 10.9 4 14.7 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.0 0 14.2 11.2 11.2 5 11.2 6 11.2 7 13.0 7 14.0 14.0 14.0 15.0 14.0 16.12.4 13.9 3 13.9 1 12.9 1 13.4 5 12.3 | DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 7 17.7 3 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 5.5 7 0.5 0 4.0 2 3.6 2 1.6 2 3.6 2 1.6 2 3.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 1.7 0 3.7 7 0.8 0 3.0 0 3.0 </td <td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 3 4.1 9 19.1 0 7.1</td> <td>TREE - PHASE 6
AN MARCOS, TEX</td> <td>AINAGE AREA
ULATIONS 1 OF 2</td> | SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 3 4.1 9 19.1 0 7.1 | TREE - PHASE 6
AN MARCOS, TEX | AINAGE AREA
ULATIONS 1 OF 2 |
| AREA
A1.1A
A1.1B
A1.1C
A1.1
Culvert B
A4.1
A4.2
A4.3
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B2.2B | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1C 2.25 A1.1C 2.25 A1.1 8.23 Culvert B 2.95 A4.1 0.62 A4.2 0.21 A4.3 2.15 A4.4 0.11 A4.4B 0.59 A4.4B 0.59 A4.4B 0.70 B1.1 0.07 B1.2 0.42 B1.3 0.54 B1.4 0.23 B1.5 0.32 B1.6 0.84 B1.7 0.39 B1.8 0.55 B1.9 0.18 B1.10 0.37 B1.11 0.55 B1.12 0.42 B1.13 0.43 B1.14 0.43 B1.15 0.42 B1.16 2.82 B2.1 0.74
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.47 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.76 0.67 0.75 0.67 0.76 0.67 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.66 0.74 0.63 0.70 0.62 0.70 0.63 0.70 0.62 0.70 0.63 0.70 0.64 0.73 0.67 0.75 0.64 0.72 0.65 0.73 0.48 0.55 0.66 0.74 0.59 <td>1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.33 0.12 0.20 0.55 0.24 0.34 0.07 0.25 0.35 0.28 0.27 0.28 0.27 1.35 0.49 0.27 0.63</td> <td>(ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60 0.71 55</td> <td>Manning's
(n) 0.24<</td> <td>Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.020 0.028 0.049 0.043 0.043 0.043 0.043 0.041 0.065 0.018 0.017 0.036 0.035 0.035 0.036 0.035</td> <td>Tc Leng
(min) 9.8
 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 109 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 7.6 0 5.1 0 5.2 0 5.1 0 5.8 237 6.2 27 5.9 195 5.0 87 <td>Paved/
Unpaved 0</td><td>Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.017 0.059 - 0.010 0.020 0.017 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.110 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020</td><td>Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210 0.0 239 0.0 241 0.0 243 0.9 549 0.2 264 0.8 6 0.3 111</td><td>Manning's
(n) 0.02<</td><td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.033 0.049 0.041 - 0.085 0.043 0.043 0.043 0.043 0.043 0.043 0.045 0.057 0.052 0.057 0.028 0.028 0.028 0.031 0.034 0.035 0.034 0.045 0.045 0.045</td><td>Velocity Ft/s 5.3 6.0 4.2 - 0.5 5.2 5.2 5.5 6.4 5.8 - 8.4 5.9 5.2 2.6 7.1 6.2 6.6 6.9 4.3 4.8 4.8 5.1 5.1 5.3 5.4 5.3 5.3</td><td>Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.6 0.4 5.5 0.4 5.5 0.1 5.0 0.3 10. 0.1 10. 0.3 10. 0.1 10. 0.2 10. 0.3 10. 0.1 10. 0.2 10. 0.7 7.2 0.7 8.2 0.8 6.6 1.7 8.4 0.7 7.7 0.8 6.6 1.7 8.4 0.7 7.7 0.0 6.7 0.4 5.6 <td>Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 20 11.4 27 10.8 26 8.6 16 9.7 20 11.4 20 11.4 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21.5 10.6 22 10.1 23 9.7 21 10.8 36 10.1 36 10.4 36 10.4 36</td><td>ITENSITY yr I 100 r) (in/hi 5 10.9 4 14.7 3 13.8 5 10.9 4 14.7 5 13.5 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.6 3 14.6 4 14.7 5 11.2 6 11.2 6 11.2 6 11.2 6 11.2 7 13.0 7 13.0 7 13.0 7 12.4 3 13.9 1 12.3 2 13.1 4</td><td>DI yr Q 2 r) (cfs 0 10.1 7 17.1 3 10.2 0 31.1 4 13.1 7 1.6 5 10.1 7 1.6 5 10.1 7 1.6 5 10.1 7 0.5 6 4.5 5 5.3 7 0.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 12.1 3 12.1 3 12.1 3 12.1 3 12.1 3 2.6 3 2.6 3 2.</td><td>SCHARGE 25 Q 100 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0</td><td>G TREE - PHASE 6
SAN MARCOS, TEX</td><td>INAGE AREA
LATIONS 1 OF 2</td></td></td>
 | 1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.33 0.12 0.20 0.55 0.24 0.34 0.07 0.25 0.35 0.28 0.27 0.28 0.27 1.35 0.49 0.27 0.63
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60 0.71 55 | Manning's
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ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.020 0.028 0.049 0.043 0.043 0.043 0.043 0.041 0.065 0.018 0.017 0.036 0.035 0.035 0.036 0.035
 | Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 109 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 7.6 0 5.1 0 5.2 0 5.1 0 5.8 237 6.2 27 5.9 195 5.0 87 <td>Paved/
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(n) 0.02<</td>
<td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.033 0.049 0.041 - 0.085 0.043 0.043 0.043 0.043 0.043 0.043 0.045 0.057 0.052 0.057 0.028 0.028 0.028 0.031 0.034 0.035 0.034 0.045 0.045 0.045</td> <td>Velocity Ft/s 5.3 6.0 4.2 - 0.5 5.2 5.2 5.5 6.4 5.8 - 8.4 5.9 5.2 2.6 7.1 6.2 6.6 6.9 4.3 4.8 4.8 5.1 5.1 5.3 5.4 5.3 5.3</td> <td>Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.6 0.4 5.5 0.4 5.5 0.1 5.0 0.3 10. 0.1 10. 0.3 10. 0.1 10. 0.2 10. 0.3 10. 0.1 10. 0.2 10. 0.7 7.2 0.7 8.2 0.8 6.6 1.7 8.4 0.7 7.7 0.8 6.6 1.7 8.4 0.7 7.7 0.0 6.7 0.4 5.6 <td>Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 20 11.4 27 10.8 26 8.6 16 9.7 20 11.4 20 11.4 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21.5 10.6 22 10.1 23 9.7 21 10.8 36 10.1 36 10.4 36 10.4 36</td><td>ITENSITY yr I 100 r) (in/hi 5 10.9 4 14.7 3 13.8 5 10.9 4 14.7 5 13.5 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.6 3 14.6 4 14.7 5 11.2 6 11.2 6 11.2 6 11.2 6 11.2 7 13.0 7 13.0 7 13.0 7 12.4 3 13.9 1 12.3 2 13.1 4</td><td>DI yr Q 2 r) (cfs 0 10.1 7 17.1 3 10.2 0 31.1 4 13.1 7 1.6 5 10.1 7 1.6 5 10.1 7 1.6 5 10.1 7 0.5 6 4.5 5 5.3 7 0.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 12.1 3 12.1 3 12.1 3 12.1 3 12.1 3 2.6 3 2.6 3 2.</td><td>SCHARGE 25 Q 100 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0</td><td>G TREE - PHASE 6
SAN MARCOS, TEX</td><td>INAGE AREA
LATIONS 1 OF 2</td></td> | Paved/
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 | Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210 0.0 239 0.0 241 0.0 243 0.9 549 0.2 264 0.8 6 0.3 111
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 | Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.6 0.4 5.5 0.4 5.5 0.1 5.0 0.3 10. 0.1 10. 0.3 10. 0.1 10. 0.2 10. 0.3 10. 0.1 10. 0.2 10. 0.7 7.2 0.7 8.2 0.8 6.6 1.7 8.4 0.7 7.7 0.8 6.6 1.7 8.4 0.7 7.7 0.0 6.7 0.4 5.6 <td>Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 20 11.4 27 10.8 26 8.6 16 9.7 20 11.4 20 11.4 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21.5 10.6 22 10.1 23 9.7 21 10.8 36 10.1 36 10.4 36 10.4 36</td> <td>ITENSITY yr I 100 r) (in/hi 5 10.9 4 14.7 3 13.8 5 10.9 4 14.7 5 13.5 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.6 3 14.6 4 14.7 5 11.2 6 11.2 6 11.2 6 11.2 6 11.2 7 13.0 7 13.0 7 13.0 7 12.4 3 13.9 1 12.3 2 13.1 4</td> <td>DI yr Q 2 r) (cfs 0 10.1 7 17.1 3 10.2 0 31.1 4 13.1 7 1.6 5 10.1 7 1.6 5 10.1 7 1.6 5 10.1 7 0.5 6 4.5 5 5.3 7 0.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 12.1 3 12.1 3 12.1 3 12.1 3 12.1 3 2.6 3 2.6 3 2.</td> <td>SCHARGE 25 Q 100 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0</td> <td>G TREE - PHASE 6
SAN MARCOS, TEX</td> <td>INAGE AREA
LATIONS 1 OF 2</td> | Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 20 11.4 27 10.8 26 8.6 16 9.7 20 11.4 20 11.4 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21.5 10.6 22 10.1 23 9.7 21 10.8 36 10.1 36 10.4 36 10.4 36
 | ITENSITY yr I 100 r) (in/hi 5 10.9 4 14.7 3 13.8 5 10.9 4 14.7 5 13.5 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.6 3 14.6 4 14.7 5 11.2 6 11.2 6 11.2 6 11.2 6 11.2 7 13.0 7 13.0 7 13.0 7 12.4 3 13.9 1 12.3 2 13.1 4 | DI yr Q 2 r) (cfs 0 10.1 7 17.1 3 10.2 0 31.1 4 13.1 7 1.6 5 10.1 7 1.6 5 10.1 7 1.6 5 10.1 7 0.5 6 4.5 5 5.3 7 0.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 12.1 3 12.1 3 12.1 3 12.1 3 12.1 3 2.6 3 2.6 3 2. | SCHARGE 25 Q 100 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0 | G TREE - PHASE 6
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(n) 0.24<</td> <td>Slope
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 - 0.025</td> <td>Tc Leng
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Unpaved 0</td> <td>Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.017 0.059 - 0.010 0.020 0.017 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.102 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.057 0.103 - 0.022</td> <td>Tc Lengt
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 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.47 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.76 0.67 0.75 0.67 0.76 0.67 0.76 0.67 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.87 0.96 0.63 0.70 0.64 0.72 0.66 0.74 0.63 0.70 0.62 0.70 0.63 0.70 0.64 0.73 0.65 0.73 0.64 0.73 0.65 0.73 0.66 0.74 0.59 <td>1.27 1.53 0.96 3.64 1.37 0.41 0.7 0.8 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.33 0.12 0.20 0.55 0.24 0.34 0.27 0.28 0.27 0.28 0.27 0.28 0.27 0.28 0.27 0.28 0.27 0.28 0.27 0.28 0.27 0.28 0.27 0.63 0.90 0.24 0.23 0.24</td> <td>(ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.40 40 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60 0.71 55 1.02 - 0.27 44 0.26 18 0.53 -</td> <td>Manning's
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Unpaved Unpaved Unpaved Unpa</td> <td>Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.059 0.059 - 0.010 0.020 0.017 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.102 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.057 0.103 - 0.022</td> <td>Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 208 0.2 35 0.0 210 0.4 208 0.2 35 0.0 247 0.0 243 0.9 549 0.2 264 0.8 6 0.3 111 - - 0.0 351 0.0 351<td>Manning's
(n) 0.02<</td><td>Slope
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OF SAN MARCOS, TEX</td><td>AINAGE AREA
ULATIONS 1 OF 2</td></td></td></td> | 1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55
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 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60 0.71 55 1.02 - 0.27 44 0.26 18 0.53 - | Manning's
(n) 0.24< | Slope
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(n) 0.02<</td> <td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.032 0.043 0.049 0.049 0.041 - 0.085 0.043 0.033 0.043 0.033 0.045 0.057 0.028 0.028 0.031 0.034 0.035 0.034 0.035 0.037 0.037 0.037 0.037</td> <td>Velocity ft/s 5.3 6 - - 0.5 5.2 5.2 5 5.2 5 5.4 - 8.4 - 5.9 - 8.4 - 6.2 - 6.6 - 7.1 6 6.2 - 6.6 - 4.3 4.8 4.8 - 5.1 - 5.3 - 6.1 - 5.3 - 5.4 - 5.2 -</td> <td>Tc Tr (min) (min) 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.8 0.2 5.0 0.5 5.0 0.1 5.0 0.4 5.5 0.4 5.5 0.1 5.0 0.3 10. 0.1 10. 0.2 10. 0.3 10. 0.1 5.6 0.1 5.0 0.1 5.0 0.7 7.2 0.7 8.2 0.8 6.6 1.7 8.4 0.7 7.4 0.8 6.6 1.7 8.4 0.7 7.4 0.8 6.6 1.7 8.4 0.7</td> <td>Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 27 10.8 26 8.6 27 10.8 26 8.6 27 10.2 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21 23 22 10.1 23 9.7 21 10.6 23 9.7 21 10.4 23 9.7 249</td> <td>ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 3 13.8 5 10.9 4 14.7 4 14.7 4 14.7 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.0 0 14.0 0 14.2 11.2 11.2 5 11.2 6 11.2 6 11.2 7 12.4 3 13.9 1 13.0 1 13.1 2 13.1 4 13.3 1 13.2 4<td>DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 7 17.7 3 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 10.7 6 4.5 5 5.5 7 0.5 0 4.0 2 3.6 2 1.6 2 3.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 2.2 4 2.6 3 2.6 3 2.6 3 2.6 3 2.7 2 2.6 3 2.2<</td><td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.44 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 1.2 5 3.6 4 4.9 0 4.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0 4 3.5 7 3.9 3 7.0 5 23.1 3 4.0 <!--</td--><td>SING TREE - PHASE 6
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 | ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 3 13.8 5 10.9 4 14.7 4 14.7 4 14.7 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.0 0 14.0 0 14.2 11.2 11.2 5 11.2 6 11.2 6 11.2 7 12.4 3 13.9 1 13.0 1 13.1 2 13.1 4 13.3 1 13.2 4 <td>DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 7 17.7 3 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 10.7 6 4.5 5 5.5 7 0.5 0 4.0 2 3.6 2 1.6 2 3.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 2.2 4 2.6 3 2.6 3 2.6 3 2.6 3 2.7 2 2.6 3 2.2<</td> <td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.44 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 1.2 5 3.6 4 4.9 0 4.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0 4 3.5 7 3.9 3 7.0 5 23.1 3 4.0 <!--</td--><td>SING TREE - PHASE 6
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ULATIONS 1 OF 2</td> | SING TREE - PHASE 6
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 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.47 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.76 0.67 0.75 0.67 0.76 0.67 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.66 0.74 0.63 0.70 0.64 0.72 0.66 0.74 0.67 0.76 0.64 0.72 0.65 0.73 0.64 0.72 0.65 0.73 0.66 0.74 0.59 0.67 0.60 <td>1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.34 0.07 0.25 0.24 0.35 0.28 0.27 0.28 0.27 0.28 0.27 0.63 0.90 0.24 0.23 0.47 0.23 0.47 1.44 0.27</td> <td>(ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60 0.71 55 1.02 - 0.27 44 0.26 18 0.53 -</td> <td>Manning's
(n) 0.24<</td> <td>Slope
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0.036 0.037 0.038 0.030 0.034 0.050 0.014 0.047 0.025 0.030 - 0.025 0.030 - 0.046</td> <td>Tc Leng
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Unpaved Unpaved Unpaved Unpa</td> <td>Slope
ft/ft 0.117 0.208 0.220 - 0.208 0.220 - 0.208 0.020 0.020 0.017 0.059 - 0.010 0.020 0.017 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.1020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 - 0.022 0.020 - 0.022 0.020 - <tr< td=""><td>Tc Lengt
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 | Tc Lengt
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(n) 0.02<</td> <td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.043 0.032 0.049 0.041 - 0.085 0.043 0.043 0.043 0.043 0.043 0.043 0.045 0.052 0.057 0.028 0.031 0.034 0.035 0.034 0.035 0.034 0.035 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 <!--</td--><td>Velocity ft/s 5.3 6 5.3 6 4.2 1 - 5 5.2 5 5.2 5 5.2 5 6.4 5 5.4 5 7.1 6 6.2 6 7.1 6 6.2 6 6.9 4 4.8 1 5.1 5 5.4 5 5.1 5 5.1 5 5.1 1 5.3 5.4 5.3 5.4 5.3 1 5.2 2 6.1 5 5.1 1 5.2 1 5.3 1 5.4 1 5.5 1 - 1 1.1 1 1.2 1 7</td><td>Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.5 0.2 5.0 0.5 5.5 0.4 5.5 0.1 5.0 0.5 5.5 0.4 5.5 0.4 5.5 0.1 5.0 0.1 5.0 0.1 5.0 0.3 10.0 0.3 10.0 0.1 10.0 0.2 10.0 0.1 5.0 0.1 5.0 0.8 6.0 0.8 6.0 0.8 6.0 0.8 6.0 0.7 7.2 0.8 6.0 1.7 8.4 0.7</td><td>Iative IN c I 25y in) (in/h 26 8.6 20 11.2 26 8.6 27 10.6 26 8.6 27 10.5 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21 23 22 10.1 23 9.7 21 10.6 23 9.7 21 10.6 23 9.7 21 10.5 23</td><td>ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 5 10.9 4 14.7 5 13.8 5 10.9 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 11.2 6 11.2 6 11.2 6 11.2 6 12.4 1 13.0 7 1.3.9 1 13.0 7 1.3.1 6 12.3 2 13.1 4 13.3 3 13.2 3 13.2 3</td><td>DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 7 1.6 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 0.5 6 4.5 5 5.5 7 0.5 0 4.0 2 3.6 2 1.7 0 3.7 7 0.8 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0<td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 6.2 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0 4 3.5 7 3.9</td><td>ISSING TREE - PHASE 6
TY OF SAN MARCOS, TEX</td><td>AINAGE AREA
ULATIONS 1 OF 2</td></td></td> | Manning's
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ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.043 0.032 0.049 0.041 - 0.085
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TY OF SAN MARCOS, TEX</td><td>AINAGE AREA
ULATIONS 1 OF 2</td></td> | Velocity ft/s 5.3 6 5.3 6 4.2 1 - 5 5.2 5 5.2 5 5.2 5 6.4 5 5.4 5 7.1 6 6.2 6 7.1 6 6.2 6 6.9 4 4.8 1 5.1 5 5.4 5 5.1 5 5.1 5 5.1 1 5.3 5.4 5.3 5.4 5.3 1 5.2 2 6.1 5 5.1 1 5.2 1 5.3 1 5.4 1 5.5 1 - 1 1.1 1 1.2 1 7
 | Tc T (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.5 0.2 5.0 0.5 5.5 0.4 5.5 0.1 5.0 0.5 5.5 0.4 5.5 0.4 5.5 0.1 5.0 0.1 5.0 0.1 5.0 0.3 10.0 0.3 10.0 0.1 10.0 0.2 10.0 0.1 5.0 0.1 5.0 0.8 6.0 0.8 6.0 0.8 6.0 0.8 6.0 0.7 7.2 0.8 6.0 1.7 8.4 0.7 | Iative IN c I 25y in) (in/h 26 8.6 20 11.2 26 8.6 27 10.6 26 8.6 27 10.5 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21 23 22 10.1 23 9.7 21 10.6 23 9.7 21 10.6 23 9.7 21 10.5 23 | ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 5 10.9
 4 14.7 5 13.8 5 10.9 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 11.2 6 11.2 6 11.2 6 11.2 6 12.4 1 13.0 7 1.3.9 1 13.0 7 1.3.1 6 12.3 2 13.1 4 13.3 3 13.2 3 13.2 3 | DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 7 1.6 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 0.5 6 4.5 5 5.5 7 0.5 0 4.0 2 3.6 2 1.7 0 3.7 7 0.8 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 0 3.0 <td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 6.2 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0 4 3.5 7 3.9</td> <td>ISSING TREE - PHASE 6
TY OF SAN MARCOS, TEX</td> <td>AINAGE AREA
ULATIONS 1 OF 2</td> | SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 6.2 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 6.9 1 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 10.0 4 3.5 7 3.9 | ISSING TREE - PHASE 6
TY OF SAN MARCOS, TEX | AINAGE AREA
ULATIONS 1 OF 2 |
| AREA
A1.1A
A1.1B
A1.1C
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 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.47 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.76 0.67 0.76 0.67 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.66 0.74 0.63 0.70 0.64 0.73 0.65 0.73 0.64 0.72 0.66 0.74 0.65 0.73 0.48 0.55 0.65 0.73 0.66 0.74 0.59 <td>1.27 1.53 0.96 3.64 1.37 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.37 0.33 0.12 0.20 0.55 0.24 0.35 0.25 0.35 0.28 0.27 0.28 0.27 0.28 0.27 0.28 0.27 0.23 0.49 0.27 0.32 0.47 1.44 0.27 0.32</td> <td>(ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.14 70 0.23 20 0.62 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 45 0.32 55 0.30 51 1.55 61 0.55 35 0.31 43 0.52 - 0.31 60 0.71 55 1.02 - 0.26 18</td> <td>Manning's
(n) 0.24<</td> <td>Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.028 0.074 0.070 - 0.020 0.028 0.074 0.070 - 0.020 0.028 0.043
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(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.4 256 3.9 0 3.0 0 4.8 109 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 5.2 0 5.4 237 6.5 0 5.9 195 5.0 87 - - 5.9 0 <t< td=""><td>Paved/
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(n) 0.02<</td><td>Slope
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 8.7 0.9 5.0 1.0 5.0 0.8 6.5 0.2 5.0 0.5 5.6 0.1 5.0 0.5 5.6 0.1 5.0 0.1 5.0 0.1 5.0 0.1 5.0 0.1 5.0 0.1 5.0 0.1 10.0 0.2 10.0 0.3 10.0 0.1 5.0 0.1 5.0 0.7 7.2 0.7 8.2 0.8 6.6 1.7 8.4 0.7 7.2 0.8 6.6 1.7 8.4 0.7 7.2 0.8 | Iative IN c I 25y in) (in/h 26 8.6 20 11.2 26 8.6 27 10.8 26 8.6 27 10.8 26 8.6 27 10.2 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.2 20 11.2 20 11.4 20 11.2 20 11.4 20 11.2 21 10.5 22 10.1 23 9.7 21 10.6 32 10.2 23 9.7 21 10.6 23 9.7 21 10.2 23 | ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 3 13.8 5 10.9 4 14.7 4 14.7 4 14.7 4 14.7 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 11.2 6 11.2 6 11.2 6 11.2 6 11.2 6 12.4 7 13.0 7 13.0 7 13.0 7 13.13 1 13.0 7 13.13 1 13.2 3 13.2 4 13.3 3
 | DI yr Q 2 r) (cfs 0 10.7 7 17.7 3 10.7 7 17.7 3 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 10.7 6 4.5 5 5.5 7 0.5 6 4.5 7 0.5 1.6 5.5 2 1.6 2 1.6 2 1.6 2 1.6 3 2.6 1 5.0 2 2.6 3 1.6 3 2.6 3 2.6 3 2.7 2 3.6 3 3.6< | SCHARGE 25 Q 100 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 5 2.44 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 1.2 5 3.6 4 4.9 0 4.4 0 4.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.0 5 23.1 | ISSING TREE - PHASE 6
TY OF SAN MARCOS, TEX | AINAGE AREA
ULATIONS 1 OF 2 |
| AREA
A1.1A
A1.1B
A1.1C
A1.1
Culvert B
A4.1
A4.2
A4.3
A4.4A
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A4.4B
A4.4B
B1.1
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C0
C1.1
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C1.4
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C2.1 | NUMBER (acres) A1.1A 2.78 A1.1B 3.20 A1.1C 2.25 A1.1 8.23 Culvert B 2.95 A4.1 0.62 A4.2 0.21 A4.3 2.15 A4.4 0.11 A4.4B 0.59 A4.4B 0.59 A4.4B 0.70 B1.1 0.07 B1.2 0.42 B1.3 0.54 B1.4 0.23 B1.5 0.32 B1.7 0.39 B1.8 0.55 B1.9 0.18 B1.10 0.37 B1.11 0.55 B1.12 0.42 B1.13 0.43 B1.14 0.43 B1.15 0.42 B1.14 0.43 B1.15 0.42 B1.14 0.43 B1.15 0.42 B2.2A 0.46
 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.47 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.76 0.67 0.75 0.67 0.76 0.67 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.87 0.96 0.64 0.72 0.66 0.74 0.63 0.70 0.64 0.73 0.67 0.76 0.64 0.72 0.66 0.74 0.67 0.75 0.64 0.72 0.65 0.73 0.66 <td>1.27 1.53 0.96 3.64 1.37 0.41 0.7 0.8 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.33 0.21 0.23 0.24 0.35 0.28 0.27 0.28 0.27 0.35 0.28 0.27 0.35 0.28 0.27 0.35 0.28 0.27 0.35 0.41 0.27 0.32 0.41 0.23 0.41 0.53 0.37 0.41 0.54 0.54 0.54</td> <td>(ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.23 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 43 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60 0.71 55 1.02 -</td> <td>Manning's (n) 0.24</td> <td>Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.028 0.074 0.070 - 0.028 0.074 0.020 0.028 0.074 0.020 0.021 0.023 0.049 0.043 0.043 0.043 0.043 0.043 0.036 0.035 0.036 0.037 0.046 0.047
 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 <!--</td--><td>Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 109 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 7.6 0 5.9 0 5.9 195 5.0 87 - - 5.9 0</td><td>Paved/
Unpaved Unpaved Unpaved</td><td>Slope
ft/ft I 0.117 0.208 0.220 - 0.208 0.220 - 0.020 0.020 0.020 0.059 0.059 0.059 - 0.010 0.020 0.017 0.059 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.055 0.042 0.071 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0</td><td>Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210 0.0 241 0.0 243 0.1 111 - - 0.0 243 0.1 243 0.2 264 0.3 111 - -</td><td>Manning's
(n) 0.02<</td><td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.043 0.043 0.043 0.032 0.049 0.041 - 0.085 0.043 0.043 0.043 0.045 0.052 0.057 0.028 0.031 0.031 0.034 0.035 0.031 0.032 - 0.037 0.031 0.031 0.017 0.025 0.031 0.031 0.031 0.031 0.031</td><td>Velocity ft/s 5.3 6 5.3 6 4.2 1 - 0.5 5.2 5 5.5 6 5.5 6 5.5 6 5.7 6 5.8 1 5.9 5 6.4 5 7.1 6 6.2 6 6.9 4 4.8 1 5.1 5 5.1 5 5.1 1 5.3 6.1 6.1 1 5.3 1 5.3 1 5.3 1 5.4 1 5.2 1 7 3.8 3.8 4.1 4.2 - 4.6 5.1 3.0 5.1 3.0 5.1 5.2 3.2 <</td><td>Tc Tc (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.5 0.2 5.0 0.5 5.5 0.4 5.5 0.1 5.0 0.5 5.5 0.4 5.5 0.4 5.5 0.1 5.0 0.1 5.0 0.1 5.0 0.3 10. 0.3 10. 0.1 10. 0.2 10. 0.3 10. 0.4 5.6 0.1 5.6 0.1 5.6 0.7 7.2 0.8 6.6 1.7 8.4 0.7 7.2 0.8 6.6 1.7</td><td>Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 20 11.4 26 8.6 27 10.6 26 8.6 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21.5 10.6 68 8.8 68 8.8 68 8.8 68 10.2 21 10.6 22 10.1 23 9.7 24</td><td>ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 5 10.9 4 14.7 5 13.8 5 10.9 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.6 3 14.6 4 14.7 5 11.2 6 11.2 6 11.2 6 12.4 1 13.0 1 13.0 1 13.0 1 13.0 1 12.3 3 13.2 4 13.3 3 13.2 4 13.3 3 13.2 4</td><td>DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 4.5 5 5.5 7 0.5 0 4.0 2 3.6 2 1.7 0 3.7 7 0.8 2 3.6 2 3.6 2 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6<td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 62 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 1.2 5 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 7.0 <</td><td>KISSING TREE - PHASE 6
CITY OF SAN MARCOS, TEX</td><td>DRAINAGE AREA
CALCULATIONS 1 OF 2</td></td></td> | 1.27 1.53 0.96 3.64 1.37 0.41 0.7 0.8 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12
0.20 0.55 0.24 0.33 0.21 0.23 0.24 0.35 0.28 0.27 0.28 0.27 0.35 0.28 0.27 0.35 0.28 0.27 0.35 0.28 0.27 0.35 0.41 0.27 0.32 0.41 0.23 0.41 0.53 0.37 0.41 0.54 0.54 0.54
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.23 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 43 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60 0.71 55 1.02 - | Manning's (n) 0.24 | Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.028 0.074 0.070 - 0.028 0.074 0.020 0.028 0.074 0.020 0.021 0.023 0.049 0.043 0.043 0.043 0.043 0.043 0.036 0.035 0.036 0.037 0.046 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 </td <td>Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 109 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 7.6 0 5.9 0 5.9 195 5.0 87 - - 5.9 0</td> <td>Paved/
Unpaved Unpaved Unpaved</td> <td>Slope
ft/ft I 0.117 0.208 0.220 - 0.208 0.220 - 0.020 0.020 0.020 0.059 0.059 0.059 - 0.010 0.020 0.017 0.059 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.055 0.042 0.071 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0</td> <td>Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210 0.0 241 0.0 243 0.1 111 - - 0.0 243 0.1 243 0.2 264 0.3 111 - -</td> <td>Manning's
(n) 0.02<</td> <td>Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.043 0.043 0.043 0.032 0.049 0.041 - 0.085 0.043 0.043 0.043 0.045 0.052 0.057 0.028 0.031 0.031 0.034 0.035 0.031 0.032 - 0.037 0.031 0.031 0.017 0.025 0.031 0.031 0.031 0.031 0.031</td> <td>Velocity ft/s 5.3 6 5.3 6 4.2 1 - 0.5 5.2 5 5.5 6 5.5 6 5.5 6 5.7 6 5.8 1 5.9 5 6.4 5 7.1 6 6.2 6 6.9 4 4.8 1
 5.1 5 5.1 5 5.1 1 5.3 6.1 6.1 1 5.3 1 5.3 1 5.3 1 5.4 1 5.2 1 7 3.8 3.8 4.1 4.2 - 4.6 5.1 3.0 5.1 3.0 5.1 5.2 3.2 <</td> <td>Tc Tc (min) (mi 0.4 11. 0.3 5.0 2.1 6.0 - 11. 4.1 8.7 0.9 5.0 1.0 5.0 0.8 6.5 0.2 5.0 0.5 5.5 0.4 5.5 0.1 5.0 0.5 5.5 0.4 5.5 0.4 5.5 0.1 5.0 0.1 5.0 0.1 5.0 0.3 10. 0.3 10. 0.1 10. 0.2 10. 0.3 10. 0.4 5.6 0.1 5.6 0.1 5.6 0.7 7.2 0.8 6.6 1.7 8.4 0.7 7.2 0.8 6.6 1.7</td> <td>Iative IN c I 25y in) (in/h 26 8.6 20 11.4 26 8.6 20 11.4 26 8.6 27 10.6 26 8.6 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 21.5 10.6 68 8.8 68 8.8 68 8.8 68 10.2 21 10.6 22 10.1 23 9.7 24</td> <td>ITENSITY r I 100 r) (in/hi 5 10.9 4 14.7 5 10.9 4 14.7 5 13.8 5 10.9 4 14.7 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 13.5 4 14.7 5 14.6 3 14.6 4 14.7 5 11.2 6 11.2 6 11.2 6 12.4 1 13.0 1 13.0 1 13.0 1 13.0 1 12.3 3 13.2 4 13.3 3 13.2 4 13.3 3 13.2 4</td> <td>DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 10.7 7 1.6 5 4.5 5 5.5 7 0.5 0 4.0 2 3.6 2 1.7 0 3.7 7 0.8 2 3.6 2 3.6 2 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6<td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 62 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 1.2 5 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 7.0 <</td><td>KISSING TREE - PHASE 6
CITY OF SAN MARCOS, TEX</td><td>DRAINAGE AREA
CALCULATIONS 1 OF 2</td></td> | Tc Leng
(min) 9.8 342 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.7 141 - - 3.4 256 3.9 0 3.0 0 4.8 109 2.0 0 3.9 170 - - 2.7 0 5.3 12 5.0 36 10.3 63 2.3 31 2.3 89 4.3 76 5.0 92 3.2 72 6.5 0 7.6 0 5.9 0 5.9 195 5.0 87 - - 5.9 0
 | Paved/
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 | Slope
ft/ft I 0.117 0.208 0.220 - 0.208 0.220 - 0.020 0.020 0.020 0.059 0.059 0.059 - 0.010 0.020 0.017 0.059 0.059 - 0.010 0.020 0.049 0.033 0.010 0.055 0.042 0.071 0.055 0.042 0.071 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0.020 - 0
 | Tc Lengt
(min) 1.0 131 0.6 124 0.3 528 - - 0.6 124 0.3 528 - - 0.6 124 0.0 282 0.0 324 0.9 278 0.0 94 0.7 170 - - 0.0 50 0.1 171 0.2 119 0.4 4 0.3 110 0.4 39 0.4 77 0.4 208 0.2 35 0.0 210 0.0 241 0.0 243 0.1 111 - - 0.0 243 0.1 243 0.2 264 0.3 111 - - | Manning's
(n) 0.02< | Slope
ft/ft 0.034 0.043 0.021 - 0.043 0.021 - 0.043 0.021 - 0.043 0.032 0.032 0.032 0.032 0.032 0.043 0.043 0.043 0.032 0.049 0.041
 - 0.085 0.043 0.043 0.043 0.045 0.052 0.057 0.028 0.031 0.031 0.034 0.035 0.031 0.032 - 0.037 0.031 0.031 0.017 0.025 0.031 0.031 0.031 0.031 0.031 | Velocity ft/s 5.3 6 5.3 6 4.2 1 - 0.5 5.2 5 5.5 6 5.5 6 5.5 6 5.7 6 5.8 1 5.9 5 6.4 5 7.1 6 6.2 6 6.9 4 4.8 1 5.1 5 5.1 5 5.1 1 5.3 6.1 6.1 1 5.3 1 5.3 1 5.3 1 5.4 1 5.2 1 7 3.8 3.8 4.1 4.2 - 4.6 5.1 3.0 5.1 3.0 5.1 5.2 3.2 <
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CITY OF SAN MARCOS, TEX</td> <td>DRAINAGE AREA
CALCULATIONS 1 OF 2</td> | SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 3 19.7 7 6.8 62 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 1.2 5 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 7.0 < | KISSING TREE - PHASE 6
CITY OF SAN MARCOS, TEX | DRAINAGE AREA
CALCULATIONS 1 OF 2 |
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 | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.43 0.50 0.44 0.51 0.46 0.54 0.67 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.76 0.67 0.76 0.67 0.72 0.87 0.96 0.63 0.72 0.87 0.96 0.63 0.72 0.64 0.72 0.65 0.74 0.63 0.70 0.64 0.73 0.65 0.73 0.64 0.73 0.65 0.73 0.66 0.74 0.59 0.67 0.65 0.73 0.65 0.73 0.66 <td>1.27 1.53 0.96 3.64 1.37 0.41 0.7 0.8 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.33 0.21 0.25 0.24 0.35 0.28 0.27 0.28 0.27 0.28 0.27 0.35 0.28 0.27 0.35 0.28 0.27 0.35 0.49 0.27 0.63 0.24 0.27 0.32 0.41 0.27 0.32 0.41 0.53 0.37 0.32</td> <td>(ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.23 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 43 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60</td> <td>Manning's (n) 0.24</td> <td>Slope
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(n) 0.02<</td><td>Slope
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<!--</td--><td>ISSING TREE - PHASE 6
TY OF SAN MARCOS, TEX</td><td>DRAINAGE AREA
CALCULATIONS 1 OF 2</td></td></td></td> | 1.27 1.53 0.96 3.64 1.37 0.41 0.7 0.8 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.12 0.20 0.55 0.24 0.33 0.21 0.25 0.24 0.35 0.28 0.27 0.28 0.27 0.28 0.27 0.35 0.28 0.27 0.35 0.28 0.27 0.35 0.49 0.27 0.63 0.24 0.27 0.32 0.41 0.27 0.32 0.41 0.53 0.37 0.32
 | (ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.23 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 43 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60 | Manning's (n) 0.24 | Slope
ft/ft 0.026 0.103 0.025 - 0.103 0.025 - 0.103 0.029 0.032 0.028 0.074 0.070 - 0.028 0.074 0.070 - 0.020 0.028 0.074 0.020 0.028 0.074 0.020 0.028 0.043 0.043 0.041 0.045 0.036 0.037 0.038 0.039 - 0.034 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.046 0.047 0.046 0.047 0.045
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(n) 0.02<</td> <td>Slope
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CALCULATIONS 1 OF 2</td></td> | SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 33 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 1.2 5 3.1 7 5.4 3 1.2 5 3.6 4 4.9 0 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.0 5 23.1 6 6.6 </td <td>ISSING TREE - PHASE 6
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ast 51, 5053</td></td></td> | Iative IN c I 25y in) (in/h 26 8.6 20 11.2 26 8.6 27 10.8 26 8.6 27 10.2 26 8.6 27 10.2 26 8.6 16 9.7 20 11.4 20 11.4 20 11.4 20 11.4 20 11.4 20 11.2 20 11.2 20 11.2 20 11.2 20 11.2 21 23 22 10.1 23 9.7 21 10.6 23 9.7 21 10.2 23 9.7 21 10.2 23 9.7 21 10.2 23 <t< td=""><td>ITENSITY Ir 1009 In In In In In In In In In <thin< th=""> In <thin< th=""></thin<></thin<></td><td>DI yr Q 2 r) (cfs 0 10.7 17.7 17.7 3 10.7 17.7 17.6 3 10.7 13.7 4.7 1.6 10.7 1.7 1.6 5 10.7 1.6 10.7 1.6 10.7 2 1.6 5 10.7 1.6 10.7 2 1.6 2 1.6 2 3.6 2 1.6 2 1.6 2 1.6 2 1.6 2 1.6 3 3.6 3 3.6 3 2.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3 3.6 3</td></t<> <td>SCHARGE 25 Q 100 30 (cfs) 9 16.1 4 25.9 4 15.6 2 46.3 33 19.7 7 6.8 5 2.4 2 15.2 9 1.3 5 6.5 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 7.7 5 0.7 5 5.2 1 1.5 3 2.6 3 1.2 5 3.6 4 4.9 0 4.1 3 4.1 9 19.1 0 7.1 3 4.1 9 19.1 0 7.1 3 4.0 0 4.3 6 6.6 3 5.7 <td>KISSING TREE - PHASE 6
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DESIGNEL - PHASE 6</td><td>CALCULATIONS 1 OF 2
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rst 51, 5023</td></td></td></td></td></td></tr<> | C25 C100 0.46 0.53 0.48 0.55 0.43 0.50 0.44 0.51 0.46 0.54 0.47 0.75 0.68 0.76 0.45 0.52 0.71 0.79 0.67 0.75 0.67 0.75 0.67 0.75 0.67 0.76 0.67 0.75 0.67 0.72 0.87 0.96 0.60 0.68 0.52 0.60 0.64 0.72 0.87 0.96 0.62 0.70 0.63 0.70 0.64 0.72 0.66 0.74 0.67 0.76 0.64 0.72 0.65 0.73 0.64 0.72 0.65 0.73 0.66 0.74 0.59 0.67 0.60 <td>1.27 1.53 0.96 3.64 1.37 0.41 0.7 0.8 0.39 0.41 0.97 0.08 0.39 0.47 0.04 0.37 0.33 0.20 0.55 0.24 0.33 0.20 0.55 0.24 0.35 0.28 0.27 0.28 0.27 0.35 0.28 0.27 0.35 0.28 0.27 0.35 0.27 0.35 0.27 0.32 0.41 0.27 0.32 0.41 0.27 0.32 0.41 0.53 0.37 0.41 0.54 0.32</td> <td>(ft) 1.47 84 1.76 45 1.13 24 4.23 - 1.58 45 0.46 28 0.16 21 1.13 36 0.09 19 0.44 43 0.53 - 0.05 15 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.37 50 0.40 40 0.23 20 0.27 39 0.38 45 0.08 33 0.28 42 0.40 49 0.31 43 0.32 55 0.30 51 1.55 61 0.55 35 0.31 60</td> <td>Manning's
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 | Q 100
(cfs)

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(cfs)

 | G Q total
(cfs) | Street
Width F-F
(ft)

 | Crown
Type
 | Curb
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(ft)

 | Gutter
Slope
(%)
 | a
(ft)
 | Yo
(ft) | Crown
Height
(ft) | Ponded
Width (+)
(ft) | Eo | S'w
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| A
B
C
 | -
 | 2.78
3.20
2.25
 | 16.1
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 | 0.0
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| B
 | S-1
S-1
 | 8.23
2.95
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 | -
 | -
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 | -
 | - |
 | - | - | - | - | | 46.3
 | - | - | - | 24.0 | 0.50 | 0.7 | 0.2 | | | |

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 | G-1
G-1
 | 0.62
0.21
 | 6.8
2.4

 | 0.2

 | 7.0
2.8 | 26
26

 | P
P
 | 0.33
0.33

 | 6.46%
6.46%
 | 0.46
0.46
 | 0.34
0.25 | 0.33
0.33 | FULL
6.71 | 0.28
0.49 | 0.31
0.31
 | 0.03
0.03
 | 0.11
0.18 | 26.7
13.7
 | 10
10 | 0.57
0.90 | 4.00
2.52 | 3.0
0.3 | A4.4
A4.4 | -
 | - | - | - | - | - | - | - | | | |

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| 8
A
 | G-1
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 | 2.15
0.11
 | 15.2
1.3

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26

 | -
P
 | - 0.33

 | -
4.58%
 | - 0.46
 | - 0.21 | - 0.33 | - 5.05 | - | -
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 | - | - | - | - 16.0 | 0.50 | 0.5 | 0.5 | | | |

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| B
4
1
 | -
S-1
G-1
 | 0.59
0.70
0.07
 | 6.5
7.7
0.7

 | 0.0
3.3
0.0

 | 6.5
11.0
0.7 | 26
-
26

 | P
-
P
 | 0.33
-
0.33

 | 2.46%
-
8.00%
 | 0.46
-
0.46
 | 0.39
-
0.16 | 0.33
-
0.33 | FULL
-
3.60 | - 0.76 | -
-
0.31
 | -
-
0.03
 | - 0.26 | -
-
6.6
 | -
-
10 | -
-
1.00 | -
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0.74 | -
-
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| 23
 | G-1
G-1
 | 0.42
 | 5.7

 | 0.0

 | 5.7 | 26
26
25

 | P
S
 | 0.33

 | 8.00%
6.37%
 | 0.46
 | 0.10 | 0.33 | 9.67
9.47 | 0.36 | 0.31
 | 0.03
 | 0.14 | 23.0
21.1
 | 10
10
10 | 0.64 | 3.64
3.59 | 2.0
1.6 | B1.5
B1.5 | -
 | _ | | | - | - | - | | | | |

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| 4
5
 | G-1
G-1
 | 0.23
 | 1.5

 | 0.0

 | 1.5
6.2 | 26
25

 | P
S
 | 0.33

 | 0.80%
6.37%
 | 0.46
 | 0.29 | 0.33 | 8.64
10.11 | 0.40 | 0.31
 | 0.03
 | 0.15 | 6.3
23.3
 | 10
20 | 1.00
0.97 | 1.53
6.04 | 0.0 | B1.8 | -
 | - | - | - | - | - | - | - | | | |

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| ;
 | G-1
G-1
 | 0.84
0.39
 | 6.9
3.1

 | 0.0

 | 6.9
3.3 | 25
25

 | S
S
 | 0.33
0.33

 | 4.60%
4.60%
 | 0.46
0.46
 | 0.22 | 0.50
0.50 | 11.18
8.43 | 0.32
0.41 | 0.31
0.31
 | 0.02
 | 0.12
0.15 | 23.1
14.9
 | 20
20 | 0.97 | 6.73
3.26 | 0.2 | B1.7 | -
 | - | - | - | - | - | - | - | | | |

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|
 | G-1
G-1
 | 0.55
 | 5.4

 | 0.2

 | 5.5 | 25
-

 | S
-
 | 0.33

 | 3.70%
 | 0.46
 | 0.21 | 0.50 | - | 0.33 | 0.31
 | 0.02
 | 0.12 | 19.4
-
 | 20 | 1.00 | 5.55 | 0.0 | | - 1.2
 | - | - | - | -
16.0 | - 0.50 | - 0.1 | -
0.1 | | | |

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2
 | G-1
G-1
G-1
 | 0.37
0.55
0.42
 | 3.6
4.9
4.4

 | 0.0 0.0 0.0

 | 3.6
4.9
4.4 | 25
25
25

 | S
S
S
 | 0.33
0.33
0.33

 | 3.14%
3.14%
3.14%
 | 0.46
0.46
0.46
 | 0.19
0.21
0.20 | 0.50
0.50
0.50 | 9.43
10.60
10.10 | 0.37
0.33
0.35 | 0.31
0.31
0.31
 | 0.02
0.02
0.02
 | 0.13
0.12
0.13 | 14.6
17.5
16.2
 | 20
20
20 | 1.00
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1.00 | 3.62
4.95
4.36 | 0.0
0.0
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G-1
 | 0.42
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 | 4.3 | 25
25
25

 | S
S
 | 0.33

 | 3.14%
5.10%
 | 0.46
 | 0.20 | 0.50 | 10.03
9.02 | 0.35 | 0.31
 | 0.02
 | 0.13 | 16.1
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20
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| 5
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 | 4.1 | 25

 | S
-
 | 0.33

 | 5.10%
 | 0.46
 | 0.18 | 0.50 | 8.99 | 0.39 | 0.31
 | 0.02
 | 0.14 | 17.3
 | 20 | 1.00 | 4.07 | 0.0 | | -
19.1
 | - | - | - | - 16.0 | - 0.50 | - 0.5 | - 0.5 | | | |

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| I
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 | 0.74
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4.1 | 26
26

 | P
P
 | 0.33
0.33

 | 2.90%
4.50%
 | 0.46
0.46
 | 0.39
0.31 | 0.33 | FULL
9.43 | 0.28 | 0.31
 | 0.03
 | 0.11
- | 21.1
-
 | 10
- | 0.68 | 4.88
- | 2.2 | B2.2 | -
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 | 0.33

 | 0.30%
 | 0.46
 | 0.64 | 0.33 | FULL | - | -
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15.8
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 | 0.40%
 | 0.46
0.46
-
 | 0.43 | 0.33 | FULL
FULL | - | -
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G-1
 | 0.73 3.10 0.38
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35

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P
 | - 0.33

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1.13%
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-
0.46
 | - 0.36 | - 0.50 | -
-
FULL | - 0.21 | - 0.31
 | - 0.03
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-
0.09 | -
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13.8
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10 | - 0.90 | -
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3.59 | - 0.4 | C1.3 | -
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| 2
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 | 4.3 | 35
35

 | P
P
 | 0.33

 | 1.70%
0.40%
 | 0.46
 | 0.35 | 0.50
0.50 | FULL | 0.21 | 0.31
 | 0.03
 | 0.09 | 16.2
7.9
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10 | 0.82 | 3.58
2.22 | 0.8 | C1.4 | -
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 | P
-
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 | 0.80%
 | 0.46
 | 0.33 | 0.50 | FULL
- | 0.21 | 0.31
 | 0.03
 | 0.09 | 10.4
-
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| 4
5
 | G-1
G-1
 | 0.80
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5.5

 | 0.8

 | 7.4 | 26
26

 | P
P
 | 0.33

 | 1.13%
1.13%
 | 0.46
 | 0.46 | 0.33 | FULL
FULL | 0.28 | 0.31
 | 0.03
 | 0.11 | 16.2
14.3
 | 10
10 | 0.82 | 6.08
4.88 | 1.3
0.6 | C1.6
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| 6
7
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 | G-1
G-1
G-1
 | 0.63
0.83
0.43
 | 6.0
8.8
4.0

 | 1.3
1.4
0.6

 | 7.3
10.3
4.6 | 26
26
26

 | P
P
P
 | 0.33
0.33
0.33

 | 1.13%
4.00%
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 P P</td> <td>0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.35 0.16 - <</td> <td>4.15% 4.15% 0.98% 4.15% 4.15% 4.15% STREE rb Gutt ght Slop t) (%) -</td> <td>0.46 0.46</td> <td>0.32 0.40 0.40 0.31 Vo (ft) -</td> <td>0.33 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50</td> <td>10.90 7.53 FULL 9.46 Width (ft) </td> <td>0.33 0.45 0.28 0.37 0.37 E0 - - 0.38 0.39 - - 0.38 0.59 - 0.38 0.59 - 0.38 0.44 0.42 0.48 0.44 0.42 0.38 0.44 0.42 0.38 0.44 0.42 0.38 0.39 0.42 0.38 0.35 0.35 0.35 0.38 0.39 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28</td> <td>0.31 0.31</td> <td>0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03</td> <td>0.13 0.16 0.11 0.14 </td> <td>18.2 12.6 12.3 16.1 INLET LT 19.4 10.1 11.8 17.41 17.33 </td> <td>20 10 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 10 10 10 10 10 10 10 10 10 10 10</td> <td>1.00 0.94 0.95 0.83 </td> <td>4.63 2.61 4.06 3.28 CITY Qi - - - 3.43 1.68 - 0.51 3.06 2.87 1.05 3.43 2.87 1.05 3.43 2.87 1.05 3.43 4.83 2.14 3.69 - 3.78 2.52 4.95 4.369 - 3.78 - 3.78 - - 3.78 - - - - - - 3.78 - - - - - - - - -</td> <td>0.0 0.2 0.2 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.0</td> <td>C3.2
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A4.4
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0.45
0.28
0.37
Eo
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C
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C</td><td>0.31 0.31</td><td>0.03 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03</td><td>0.13
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Pass to Inlet
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A4.4
A4.4
B1.5
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 | 4.15% 4.15% 0.98% 4.15% 0.98% 4.15% STREE Irb Gutts ght Slop t) (%) - -
 | 0.46
 | 0.32 0.27 0.40 0.31 Yo (ft) - | 0.33 0.50 | 10.90 7.53 FULL 9.46 Width (ft) | 0.33
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Pass to Inlet
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| R ST nlet No. 1.1A 1.1B 1.1C 1.13 31.2 31.3 31.4 31.5 31.6 31.7 31.8 31.9 1.10 1.11 1.12 1.13 1.14 1.15 1.16 32.1 2.2A 2.3B 32.3 C0 2.1.1 2.2.2 2.3.3 C1.6 2.1.7 2.1.8 2.1.9 2.1.3 2.1.4 2.2.5
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G-1
G-1
G-1
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 | 0.30 0.33 0.53 0.35 INLET CAI pe Are - 2.7 - 3.2 - 2.7 - 3.2 - 2.7 - 3.2 - 2.7 - 3.2 - 2.2 -1 0.3 -1 0.
 | 3.2 2.8 4.3 3.8 CULATIC age Q age <td>1.4 0.0 0.2 0.3 0.9 0.4 0.9 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.3 1.2 0.4 0.2 0.3 1.2 0.3 0.4 0.5 0.6 0.7 0.7 0.8 0.1 0.5 0.6 0.7 0.8 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0</td> <td>4.6 2.8 4.3 4.0 6 4.0 6 6 6 6 6 6 7 0 10</td> <td>26 26 26 26 26 26 26 26 26 26 26 26 26 26 Stre Width 9 - 4 - 2 - 3 - 7 26 7 26 7 26 7 26 2 - 9 2 2 - 9 26 5 26 6 25 1 26 2 25 8 25 9 - 0 26 8
25 9 - 0 26 9 - 0 26 9 <</td> <td>P P</td> <td>0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.35 0.16 - <</td> <td>4.15% 4.15% 0.98% 4.15% 4.15% 4.15% STREE rb Gutt ght Slop t) (%) -</td> <td>0.46 0.46</td> <td>0.32 0.40 0.40 0.31 Vo (ft) -</td> <td>0.33 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50</td> <td>10.90 7.53 FULL 9.46 Width (ft) </td> <td>0.33 0.45 0.28 0.37 0.37 E0 - - 0.38 0.39 - - 0.38 0.59 - 0.38 0.59 - 0.38 0.44 0.42 0.48 0.44 0.42 0.38 0.44 0.42 0.38 0.44 0.42 0.38 0.39 0.42 0.38 0.35 0.35 0.35 0.38 0.39 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28</td> <td>0.31 0.31</td> <td>0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03</td> <td>0.13 0.16 0.11 0.14 </td> <td>18.2 12.6 12.3 16.1 INLET LT 19.4 10.1 11.8 17.41 17.33 </td> <td>20 10 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 10 10 10 10 10 10 10 10 10 10 10</td> <td>1.00 0.94 0.95 0.83 </td> <td>4.63 2.61 4.06 3.28 CITY Qi - - - 3.43 1.68 - 0.51 3.06 2.87 1.05 3.43 2.87 1.05 3.43 2.87 1.05 3.43 4.83 2.14 3.69 - 3.78 2.52 4.95 4.369 - 3.78 - 3.78 - - 3.78 - - - - - - 3.78 - - - - - - - - -</td> <td>0.0 0.2 0.2 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.0</td> <td>C3.2
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Pass to Inlet
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-</td> <td>- 2.8 - 2.8 - -</td> <td>- 10.0 - 10.0</td> <td>- 0.2 - 0.2</td> <td></td> <td>- -
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(d ≤ h)
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 | 4.15% 4.15% 0.98% 4.15% 4.15% 4.15% STREE rb Gutt ght Slop t) (%) - | 0.46 0.46
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 | 0.32 0.40 0.40 0.31 Vo (ft) - | 0.33 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 | 10.90 7.53 FULL 9.46 Width (ft) | 0.33 0.45 0.28 0.37 0.37 E0 - - 0.38 0.39 - - 0.38 0.59 - 0.38 0.59 - 0.38 0.44 0.42 0.48 0.44 0.42 0.38 0.44 0.42 0.38 0.44 0.42 0.38 0.39 0.42 0.38 0.35 0.35 0.35 0.38 0.39 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 | 0.31
 | 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03
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C2.7
Pass to Inlet
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A4.4
A4.4
B1.5
B1.5
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(d ≤ h)
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| ET FL
AR ST
Inlet
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A1.1B
A1.1C
A1.1
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A4.1
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A4.3
A4.4A
A4.4B
A4.4
B1.1
B1.2
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 | 3.2 2.8 4.3 3.8 CULATIC age Q age age

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 | 4.6 2.8 4.3 4.0 6 4.0 6 6 6 6 6 6 6 6 6 7 | 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 9 2 2 3 - 3 - 3 - 3 - 3 - 3 - 3 - 5 26 6 25 26 5 25 26 25 26 25 26 25 26 27 26 7 26 <td>P P</td> <td>0.33 0.35 0.36 0.37 0.37 0.38 0.39 0.31 0.31 0.31 0.31 0.32 0.33 0.31 0.32 0.33 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.36 0.37
 0.37 0.37</td> <td>4.15% 4.15% 0.98% 4.15% 98% 4.15% STREE Irb Gutta ght Slop t) (%) - - - - - - 33 6.460 33 6.460 - - 33 6.460 - - 33 6.370 33 6.370 33 6.370 33 6.370 33 6.370 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 3.140 33 1.130 33 1.130</td> <td>0.46 0.46</td> <td>0.32 0.40 0.40 0.31 0.40 0.31 Vo (ft) -</td> <td>0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33 Image: Crown Heigh (ft) Image: Crown Group G</td> <td>10.90 7.53 FULL 9.46 Width (ft) </td> <td>0.33
0.45
0.28
0.37
Eo
Eo
Eo
C
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C</td> <td>0.31 0.31</td> <td>0.03 0.03</td> <td>0.13 0.16 0.11 0.14 </td> <td>18.2 12.6 12.3 16.1 INLET LT 19.4 10.1 19.4 10.1 19.4 10.1 19.4 10.1 19.4 10.1 16.5 18.7 11.6 15.3 18.1 18.1 <td< td=""><td>20 10 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 10 10 10 10 10 10 10 10 10 10 10 10</td><td>1.00 0.94 0.95 0.83 </td><td>4.63 2.61 4.06 3.28 </td><td>0.0 0.2 0.2 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.0</td><td>C3.2
C2.7
Pass to Inlet
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A4.4
A4.4
B1.5
B1.5
B1.5
B1.5
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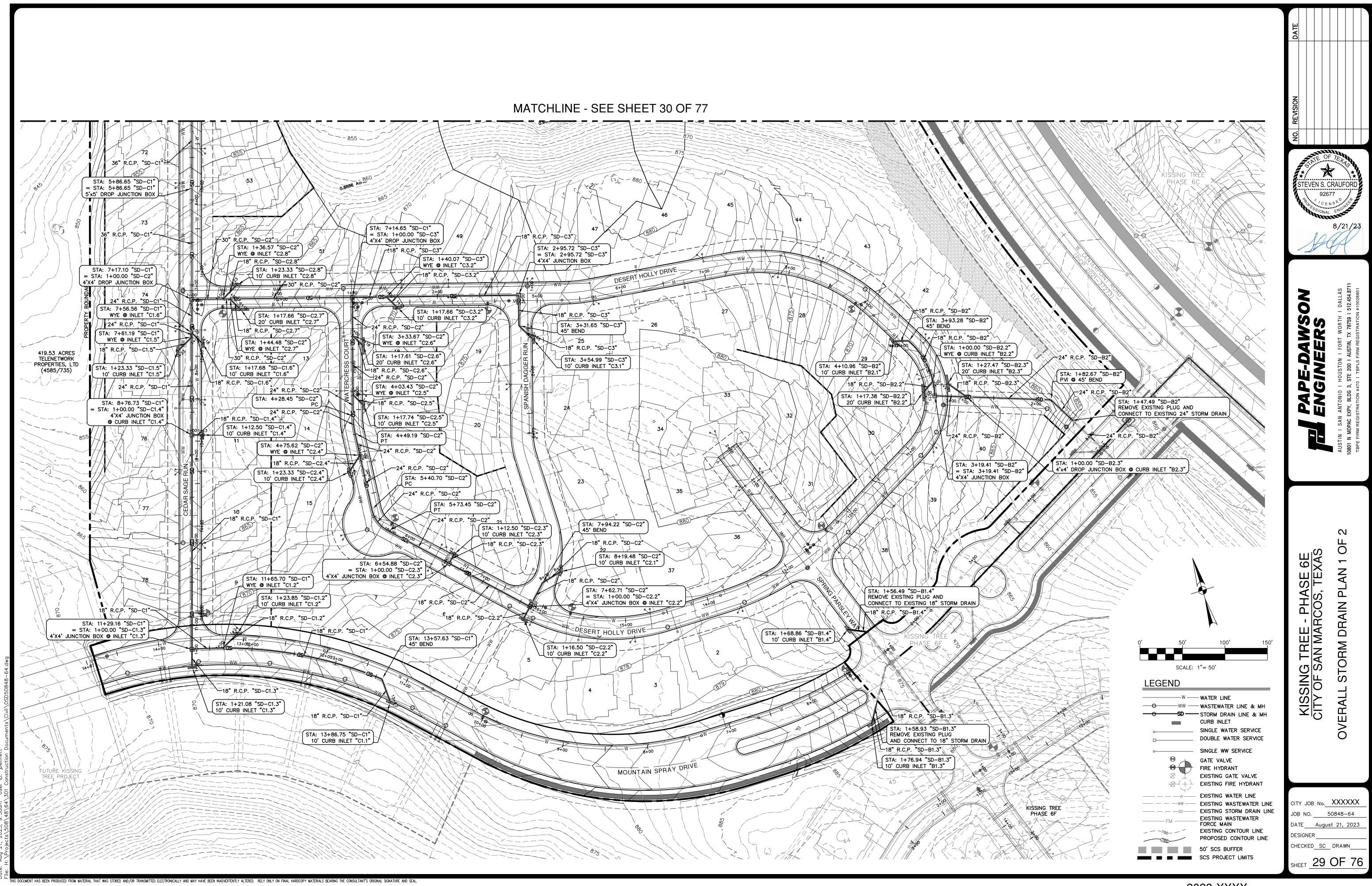
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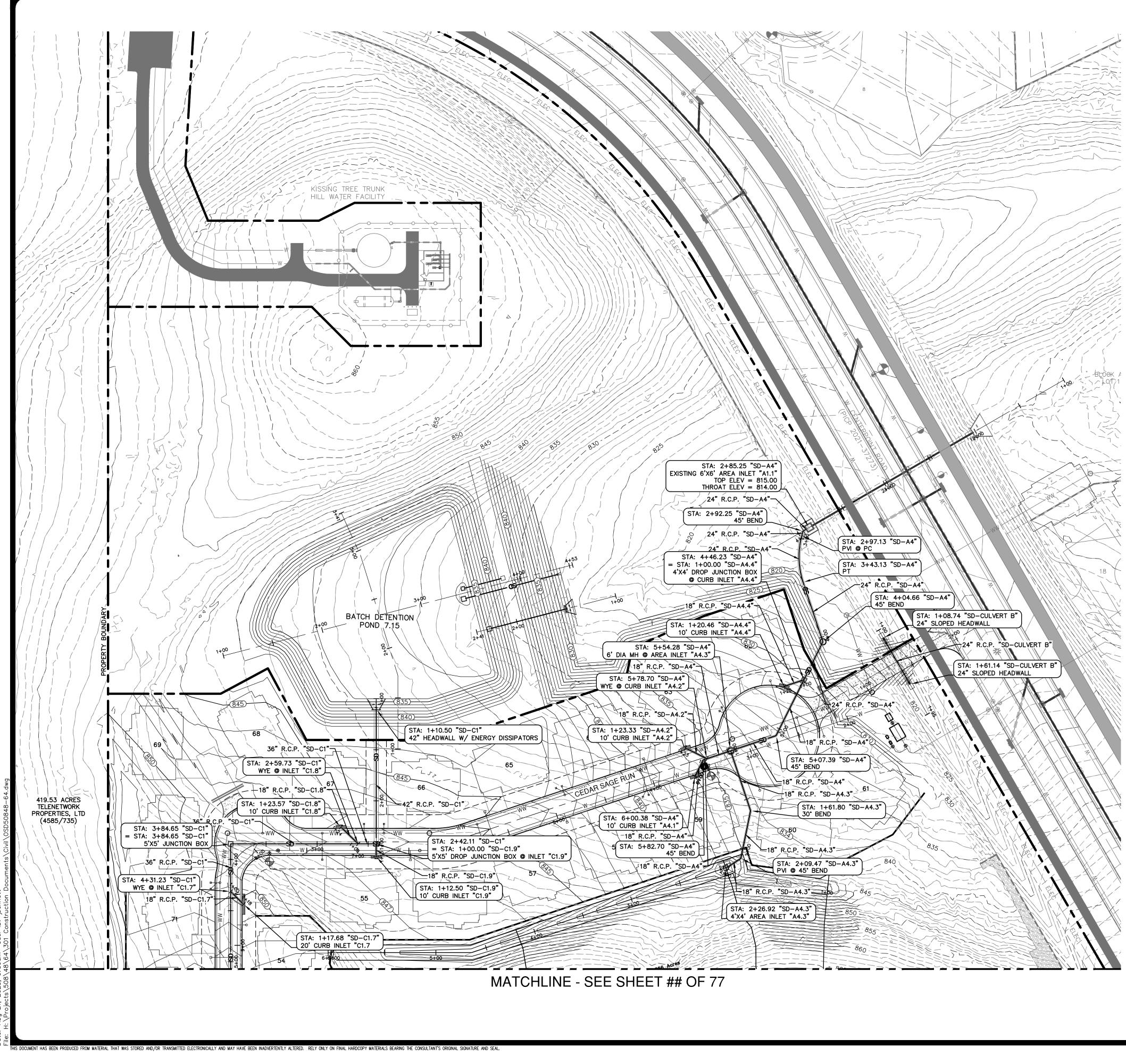
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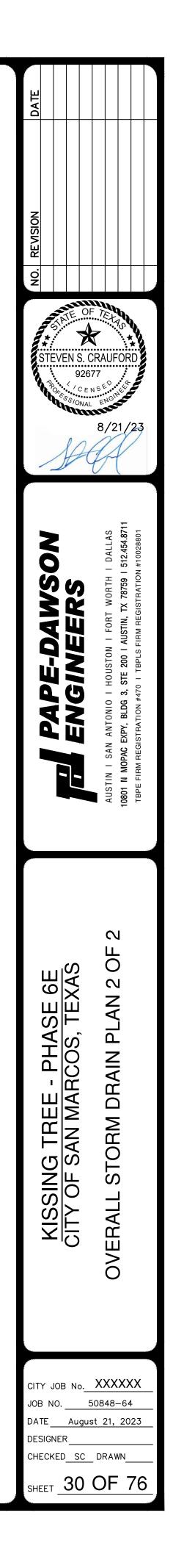
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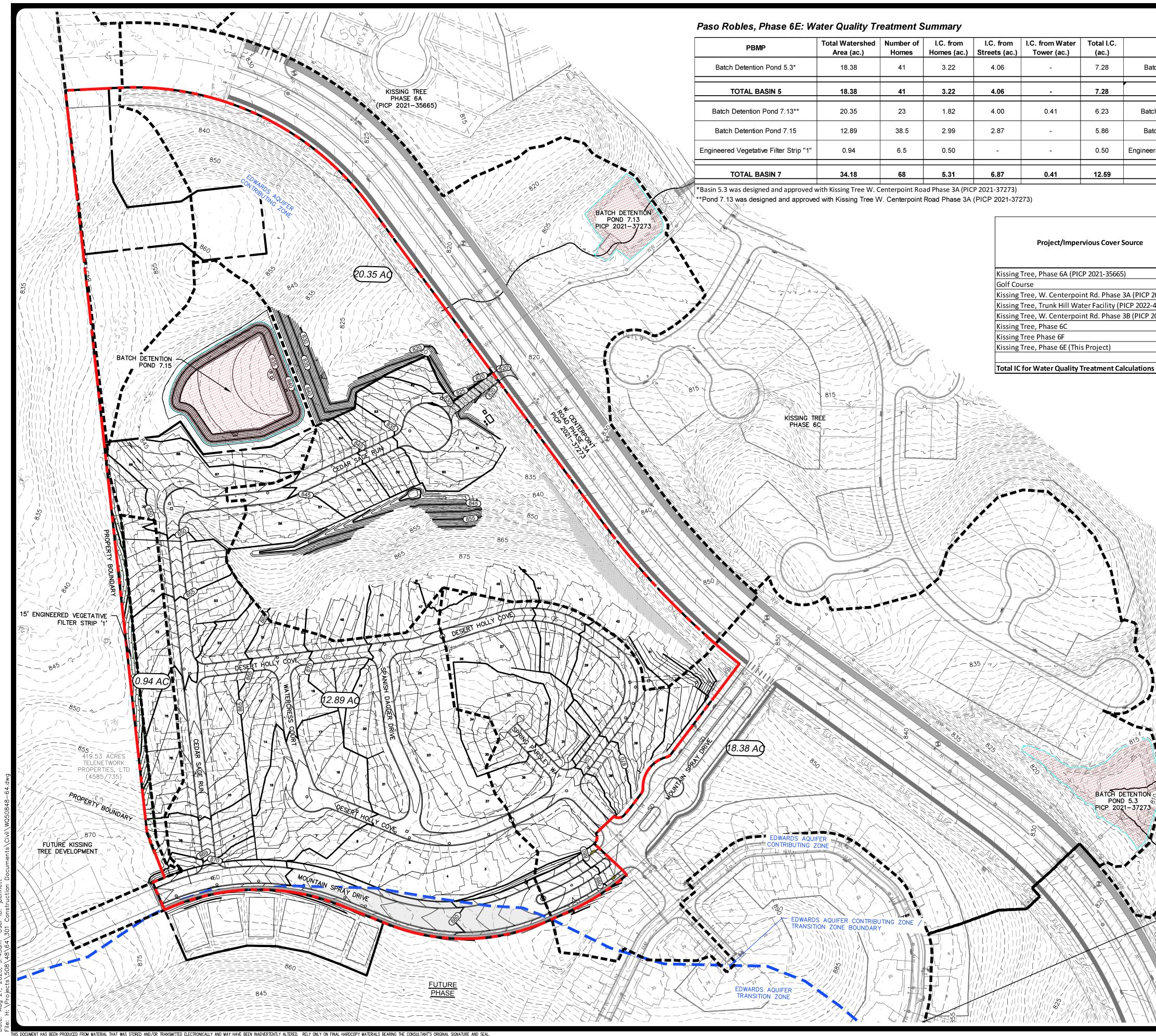
STEVEN S. CRAUFORD 92677 8/21/2 PAPE-DAWSON ENGINEERS 124 154 KISSING TREE - PHASE 6E CITY OF SAN MARCOS, TEXAS DRAINAGE AREA CALCULATIONS 2 OF 2 CITY JOB No. XXXXXX JOB NO. 50848-64 DATE August 21, 2023 DESIGNER_____ CHECKED_SC_DRAWN____ SHEET 28 OF 76





0' 50'	1"= 50' 100' 150'
—— O ——WW ——	- WATER LINE - WASTEWATER LINE & MH - STORM DRAIN LINE & MH CURB INLET SINGLE WATER SERVICE DOUBLE WATER SERVICE
	SINGLE WW SERVICE GATE VALVE FIRE HYDRANT EXISTING GATE VALVE EXISTING FIRE HYDRANT EXISTING WATER LINE EXISTING WASTEWATER LINE
SD	

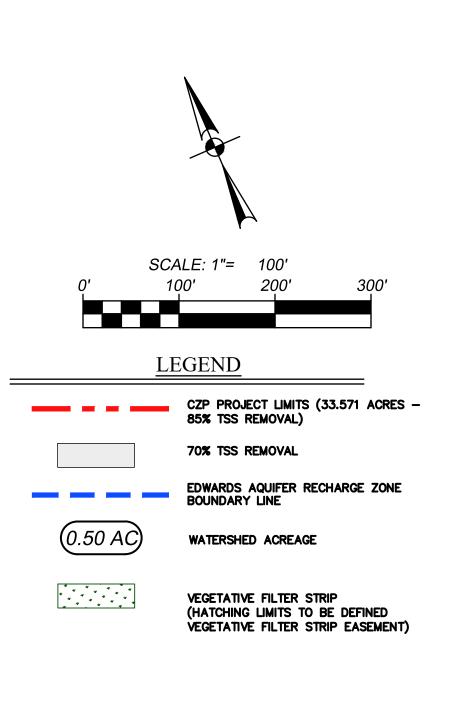




70% TSS Removal Required (lb.)	85% TSS Removal Required (lb.)	Total TSS Removal Required (lb.)	TSS Removal Provided (lb.)
-	6,943	6,943	7,085
-	6,943	6,943	7,085
-	5,942	5,942	6,132
377	5,131	5,508	5,923
-	477	477	492
377	11,549	11,927	12,547
	Required (lb.) - - - 377	Required (lb.) Required (lb.) - 6,943 - 6,943 - 5,942 377 5,131 - 477	Required (lb.) Required (lb.) Required (lb.) - 6,943 6,943 - 6,943 6,943 - 6,943 6,943 - 5,942 5,942 377 5,131 5,508 - 477 477

	Net Impervious Cover Treated	Net Impervious Cover Treated in	Net Impervious Cover Treated
	in Pond 5.3	Pond 7.13	in Pond 7.15
	Permitted with Kissing Tree,	Permitted with Kissing Tree, W.	Proposed With Kissing Tree,
	W. Centerpoint Rd. Phase 3A	Centerpoint Rd. Phase 3A	Phase 6E (This Project)
	(PICP 2021-37273)	(PICP 2021-37273)	(PICP 2023-XXXXX)
	-	-	-
	-	-	-
P 2021-3727	0.71	1.52	-
22-41287)	-	0.405	-
P 2022-41389	0.63	1.79	-
	2.13	0.43	-
	1.69	-	-
	2.12	2.08	5.86
ons	7.28	6.23	5.86

POND	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)
POND 5.3	43,955	44,038
POND 7.13	43,465	45,265
POND 7.15	48,706	49,456





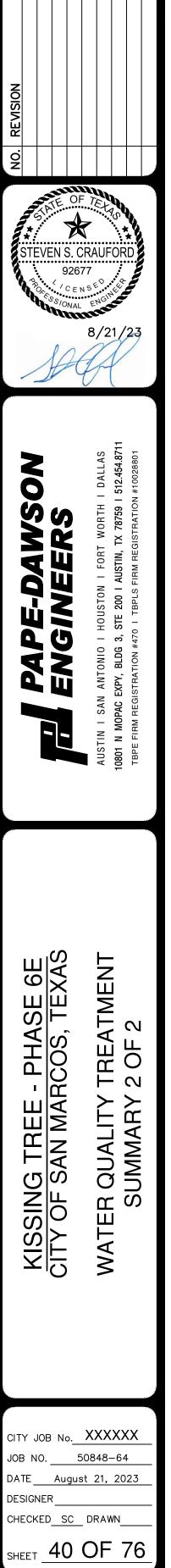
SHEET 39 OF 76

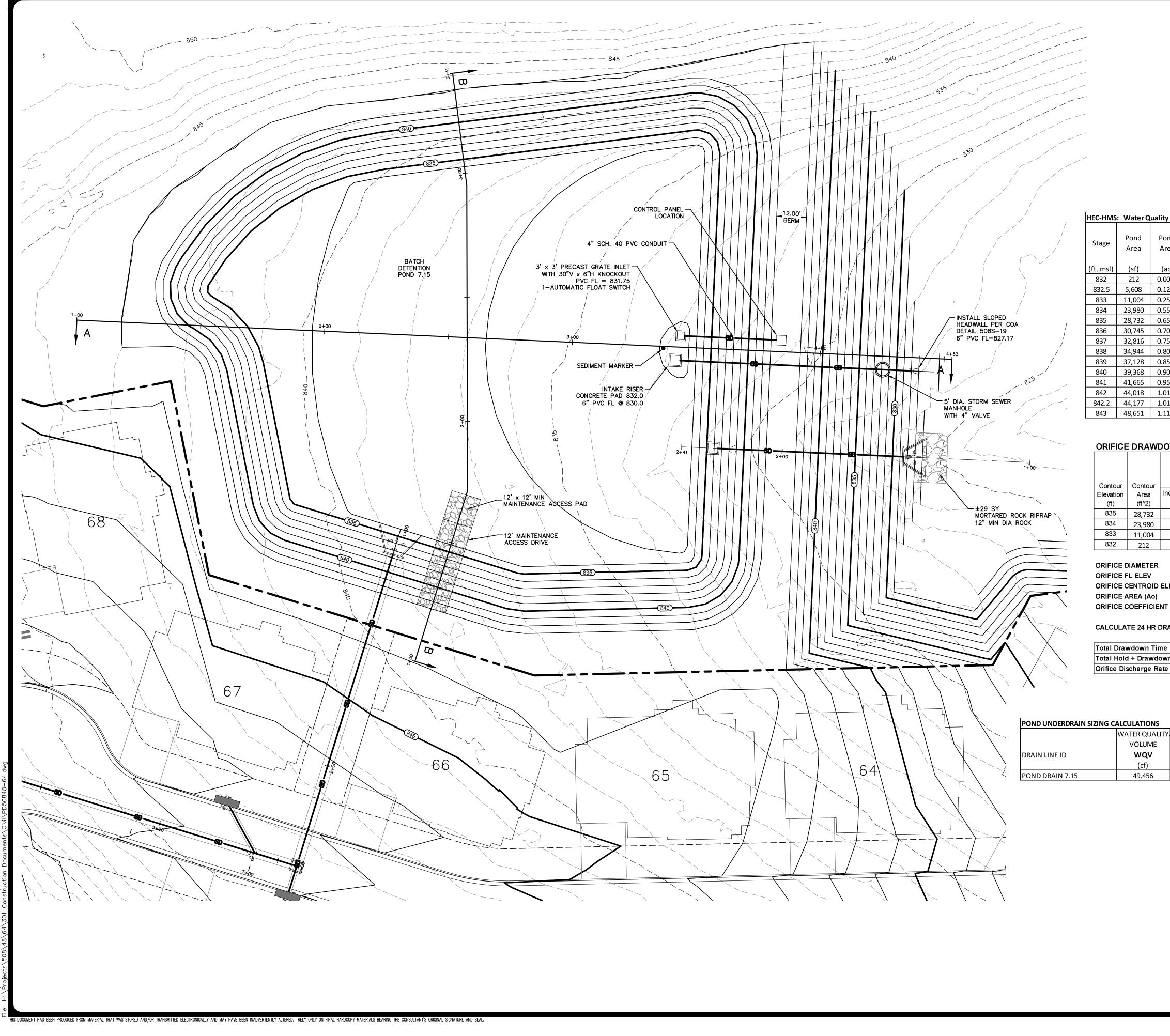
ENGINEERED VEGETATIVE FILTER STRIP "1"

	nmission on Environmental Quality						
SS Remov	al Calculations 04-20-2009			-	Paso Roble	s Phase	e 6E
				Date Prepared:	6/26/2023		
dditional in	nformation is provided for cells with a red triang	la in tha un	nor right o	ornor Blace the		the coll	
	blue indicate location of instructions in the Technica				cuisor over	the cen	•
	shown in red are data entry fields.		vianuai - riv	5-540.			
	shown in black (Bold) are calculated fields. Cha	anges to the	ese fields v	will remove the e	quations use	d in the	spreadsheet
The Require	d Load Reduction for the total project:	Calculations fr	om RG-348		Pages 3-27 to 3	-30	
	Page 3-29 Equation 3.3: $L_M =$	28.9(A _N x P)					
A 10 10 10 10		D I TOO					
where:	L _M TOTAL PROJECT =						
		Average annua		area for the project			
	•	, worago annac					
Site Data:	Determine Required Load Removal Based on the Entire Project						
	County = Total project area included in plan * =		acres				
P	redevelopment impervious area within the limits of the plan * =		acres				
	st-development impervious area within the limits of the plan* =	10.62	acres				
	Total post-development impervious cover fraction * =		inches				
	= Y	33	inches				
	L _{M TOTAL PROJECT} =	10128	lbs.				
	└M IOTAL PROJECT	10120					
Nun	nber of drainage basins / outfalls areas leaving the plan area =	0					
in contraction							
Drainage Ba	sin Parameters (This information should be provided for	each basin):					
	Drainage Basin/Outfall Area No. =	Engineered	Ee "4"				
	Drainage Basin/Outian Area No. =	Engineerea	/-5 1				
	Total drainage basin/outfall area =		acres				
	velopment impervious area within drainage basin/outfall area =		acres				
	velopment impervious area within drainage basin/outfall area = opment impervious fraction within drainage basin/outfall area =		acres				
1 001 00101	L _{M THIS BASIN} =		lbs.	ADJUSTED FOR 85	% TSS REMOVA		ОТ 80%
Indicate the	proposed BMP Code for this basin.						
	Proposed BMP =	Vegetated Fi	ter Strips				
	Removal efficiency =		percent				
					Aqualogic Cartr Bioretention	idge Filter	-
					Contech Storm	llter	
					Constructed We		
					Extended Deter	ntion	
					Grassy Swale Retention / Irrig	ation	
					Sand Filter		
					Stormceptor		
					Vegetated Filte Vortechs	r Strips	
					Wet Basin		
					Wet Vault		
Calculate Ma	aximum TSS Load Removed (L_R) for this Drainage Basin	by the select	ed BMP Type	<u>e.</u>			
	RG-348 Page 3-33 Equation 3.7: L _R =	(BMD officiant		x 34 6 + A × 0 54			
	No-540 Fage 5-55 Equation 5.7. LR =		, , , , , , , , , , , , , , , , , , ,	- υυ			
where:	A _C =	Total On-Site	drainage area	in the BMP catchme	nt area		
	-		-	n the BMP catchment			
	•	-		the BMP catchment a			
	L _R =	TSS Load rem	oved from thi	s catchment area by t	the proposed BN	Р	
	A _C =		acres				
	A ₁ =		acres				
	A _P =		acres				
	L _R =	492	lbs				
<u>Calculate Fr</u>	action of Annual Runoff to Treat the drainage basin / out	<u>fall area</u>					
Calculate Fr	raction of Annual Runoff to Treat the drainage basin / out Desired L _{M THIS BASIN} =		lbs.				

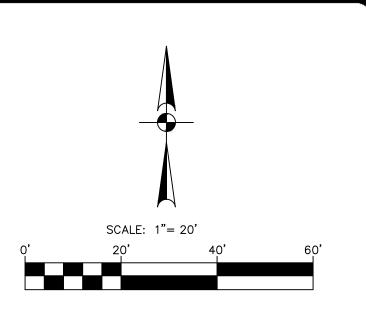
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

	BA	ICH PO	ND 7.13	3								
as Com	mission on Environmental Quality						Texas Commission on Environmental Quality					
Remova	I Calculations 04-20-2009			Project Name: Date Prepared:	Paso Robles Ph 6/26/2023	ase 6E	TSS Removal Calculations 04-20-2009			Project Name: Date Prepared:		
ional int	formation is provided for cells with a red triang	le in the up	pper right (orner. Place the	cursor over the o	cell.	Additional information is provided for cells with a red triangle	in the upp	er right co	ner. Place the cu	rsor over the cell.	
	blue indicate location of instructions in the Technic						Text shown in blue indicate location of instructions in the Technica					
	hown in red are data entry fields.						Characters shown in red are data entry fields.					
cters s	hown in black (Bold) are calculated fields. Ch	anges to th	ese fields	will remove the e	quations used in	the spreadsheet.	Characters shown in black (Bold) are calculated fields. Chang	es to thes	e fields will	remove the equat	ions used in the s	preadsheet.
e quire d	Load Reduction for the total project:	Calculations	from RG-348		Pages 3-27 to 3-30		1. The Required Load Reduction for the total project:	Calculations f	rom RG-348		Pages 3-27 to 3-30	
	Page 3-29 Equation 3.3: L_{M} =	28.9(A _N x P)	<u></u>				Page 3-29 Equation 3.3: L _M =	28.9(A _N x P)				
where:	L _{M TOTAL PROJECT} =			ul area for the project			where: L _{M TOTAL PROJECT} =			li area for the project		
			ual precipitatio						al precipitation			
e Data: D	Determine Required Load Removal Based on the Entire Proje County =						Site Data: Determine Required Load Removal Based on the Entire Project					
	Total project area included in plan * =	33.70	acres				County = Total project area included in plan * =		acres			
	edevelopment impervious area within the limits of the plan * = t-development impervious area within the limits of the plan* =		acres acres				Predevelopment impervious area within the limits of the plan * =	0.00	acres			
iotal pos	t-development impervious area within the limits of the plan [*] = Total post-development impervious cover fraction * =	10.62 0.32	acres				Total post-development impervious area within the limits of the plan* = Total post-development impervious cover fraction * =		acres			
	P =	33	inches				P =		inches			
	L _{M TOTAL PROJECT} =	10128	lbs.									
							L _{M TOTAL PROJECT} =	10128	lbs.			
Num	ber of drainage basins / outfalls areas leaving the plan area =	0					Number of drainage basins / outfalls areas leaving the plan area =	0				
nage Bas	in Parameters (This information should be provided for	each basin)	<u>:</u>				2. Drainage Basin Parameters (This information should be provided for eacl	h basin):				
	Drainage Basin/Outfall Area No. =	7.13					Drainage Basin/Outfall Area No. =	5.3	•			
Deret	Total drainage basin/outfall area =		acres				Total drainage basin/outfall area =	18.38	acres			
	elopment impervious area within drainage basin/outfall area = elopment impervious area within drainage basin/outfall area =		acres acres				Predevelopment impervious area within drainage basin/outfall area =	0.00	acres			
	oment impervious fraction within drainage basin/outfall area =	0.31					Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area =	7.28 0.40	acres	48% IMPERVIOUS CO	OVER	
	L _{M THIS BASIN} =	5942	lbs.	ADJUSTED FOR 85	% TSS REMOVAL AN	D NOT 80%	Post-development impervious fraction within drainage basinvolutrali area =		lbs.	ADJUSTED FOR 85%	TSS REMOVAL AND	NOT 80%
ate the p	proposed BMP Code for this basin.											
		Det-L D					3. Indicate the proposed BMP Code for this basin.					
	Proposed BMP = Removal efficiency =		ntion percent				Proposed BMP =					
					Aqualogic Cartridge F	Filter	Removal efficiency =	91	percent			or
					Bioretention Contech StormFilter						Aqualogic Cartridge Filt Bioretention	er
					Constructed Wetland						Contech StormFilter	
					Extended Detention Grassy Swale						Constructed Wetland Extended Detention	
					Retention / Irrigation						Grassy Swale	
					Sand Filter						Retention / Irrigation	
					Stormceptor Vegetated Filter Strip)S					Sand Filter Stormceptor	
					Vortechs						Vegetated Filter Strips	
					Wet Basin Wet Vault						Vortechs Wet Basin	
ılate Ma	ximum TSS Load Removed (L _R) for this Drainage Basir	by the selec	ted BMP Tyr								Wet Vault	
	RG-348 Page 3-33 Equation 3.7: L _R =	(BMP efficier	ncy) x P x (A _l	x 34.6 + A _P x 0.54)			4. Calculate Maximum TSS Load Removed (L _R) for this Drainage Basin by the					
where:	۵., ۲	Total On-Site	e drainade are	a in the BMP catchme	nt area		RG-348 Page 3-33 Equation 3.7: L _R =	(BMP efficien	су) х Р х (А _I х	34.6 + A _P x 0.54)		
				in the BMP catchment			where: A _C =	Total On-Site	drainage area	in the BMP catchment	area	
				the BMP catchment a						n the BMP catchment ar		
	L _R =	TSS Load rei	moved from th	is catchment area by t	the proposed BMP					he BMP catchment area		
	A _C =	20.35	acres				L _R =	100 Load rer	noved from th	s catchment area by the	- ριοροsea ΒΙΝΡ	
	A ₁ =	6.23	acres				A _c =		acres			
	A _P =		acres				A ₁ =		acres			
	L _R =	6702	lbs				A _P =		acres Ibs			
ulate Fra	ction of Annual Runoff to Treat the drainage basin / ou	tfall area	-									
	Desired L _{M THIS BASIN} =	6132	lbs.				5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall a					
	F =	0.91					Desired L _{M THIS BASIN} =	7085	lbs.			
	oture Volume required by the BMP Type for this draina	<u>ae basin / ou</u>	tfall area.	Calculations from RG	G-348 Page	s 3-34 to 3-36	F=	0.91				
late Car							6. Calculate Capture Volume required by the BMP Type for this drainage ba	<u>sin / outfall a</u>	irea.	Calculations from RG-	348 Pages	3-34 to 3-36
late Car			inches									
ilate Cap	Rainfall Depth =		cubic feet				Rainfall Depth =		inches			
late Cap	Rainfall Depth = Post Development Runoff Coefficient = On-site Water Quality Volume =	the second secon					Post Development Runoff Coefficient = On-site Water Quality Volume =		cubic feet			
late Cap	Post Development Runoff Coefficient =		from RG-348	Pages 3-36 to 3-37								
ilate Car	Post Development Runoff Coefficient =	Calculations	-					Calculations f	rom RG-348	Pages 3-36 to 3-37		
late Cap	Post Development Runoff Coefficient = On-site Water Quality Volume =											
ilate Car	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP =	11.33 0.00	acres acres						and the second sec			
ulate Cap	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area =	11.33 0.00 0.00	acres				Off-site area draining to BMP = Off-site Impervious cover draining to BMP =	0.00	acres			
ulate Cap	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP =	11.33 0.00 0.00 0.02	acres				Off-site Impervious cover draining to BMP = Impervious fraction of off-site area =	0.00 0	acres acres			
	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient = Off-site Water Quality Volume =	11.33 0.00 0.00 0.02 1481	acres acres				Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	0.00 0 0.00	acres			
	Post Development Runoff Coefficient = On-site Water Quality Volume = Off-site area draining to BMP = Off-site Impervious cover draining to BMP = Impervious fraction of off-site area = Off-site Runoff Coefficient =	11.33 0.00 0.00 0.02 1481 7244	acres acres			Image:	Off-site Impervious cover draining to BMP = Impervious fraction of off-site area =	0.00 0				





:: Aug 21, 2023, 9:32am User ID: jbennett H:\Proisots\508\48\64\301 Construction Documente\Civil\P



NOTE: MINIMUM BURY DEPTH OF ELECTRICAL CONDUIT AT POND SHALL BE 24 INCHES.

ter Q	er Quality Pond 7.15 Combined Elevation-Area-Storage Table								
nd ea	Pond Area	Incrementa I Height	Incremental Volume Avg. End Area	Cumulative Volume	Cumulativ e Volume	Comments			
⁻)	(ac)	(ft)	(cf)	(cf)	(ac-ft)				
2	0.0049								
28	0.1287	0.50	1455	1455	0.03	Sed Marker @ 0.5 ft Sed Depth			
04	0.2526	0.50	4,153.0	5,608.0	0.13				
80	0.5505	1.00	17,492.0	23,100.0	0.53				
'32	0.6596	1.00	26,356.0	49,456.0	1.14	Water Quality Volume			
'45	0.7058	1.00	29,738.5	79,194.5	1.82				
316	0.7534	1.00	31,780.5	110,975.0	2.55				
44	0.8022	1.00	33,880.0	144,855.0	3.33				
.28	0.8523	1.00	36,036.0	180,891.0	4.15				
68	0.9038	1.00	38,248.0	219,139.0	5.03				
65	0.9565	1.00	40,516.5	259,655.5	5.96				
)18	1.0105	1.00	42,841.5	302,497.0	6.94				
.77	1.0142	0.20	8,819.5	311,316.5	7.15	100 yr			
51	1.1169	0.80	37,131.2	348,447.7	8.00	Top of Berm			

ORIFICE DRAWDOWN TIME FOR BATCH DETENTION

ontour	Average End L $V_{1,2} = \left[\frac{A_1}{A_1}\right]$	Area Method $\frac{A}{2} + \frac{A_2}{2} + \frac{A}{2} + $	Orifice	Incremental	Total Drawdown
Area	Incremental Volume	Total Volume	Discharge	Drawdown Time	Time
(ft^2)	(ft^3)	(ft^3)	(cfs)	(hr)	(hr)
28,732	0	0			
23,980	26,356	26,356	1.10	6.6	6.6
1,004	17,492	43,848	1.02	4.8	11.4
212	5,608	49,456	0.93	1.7	13.1

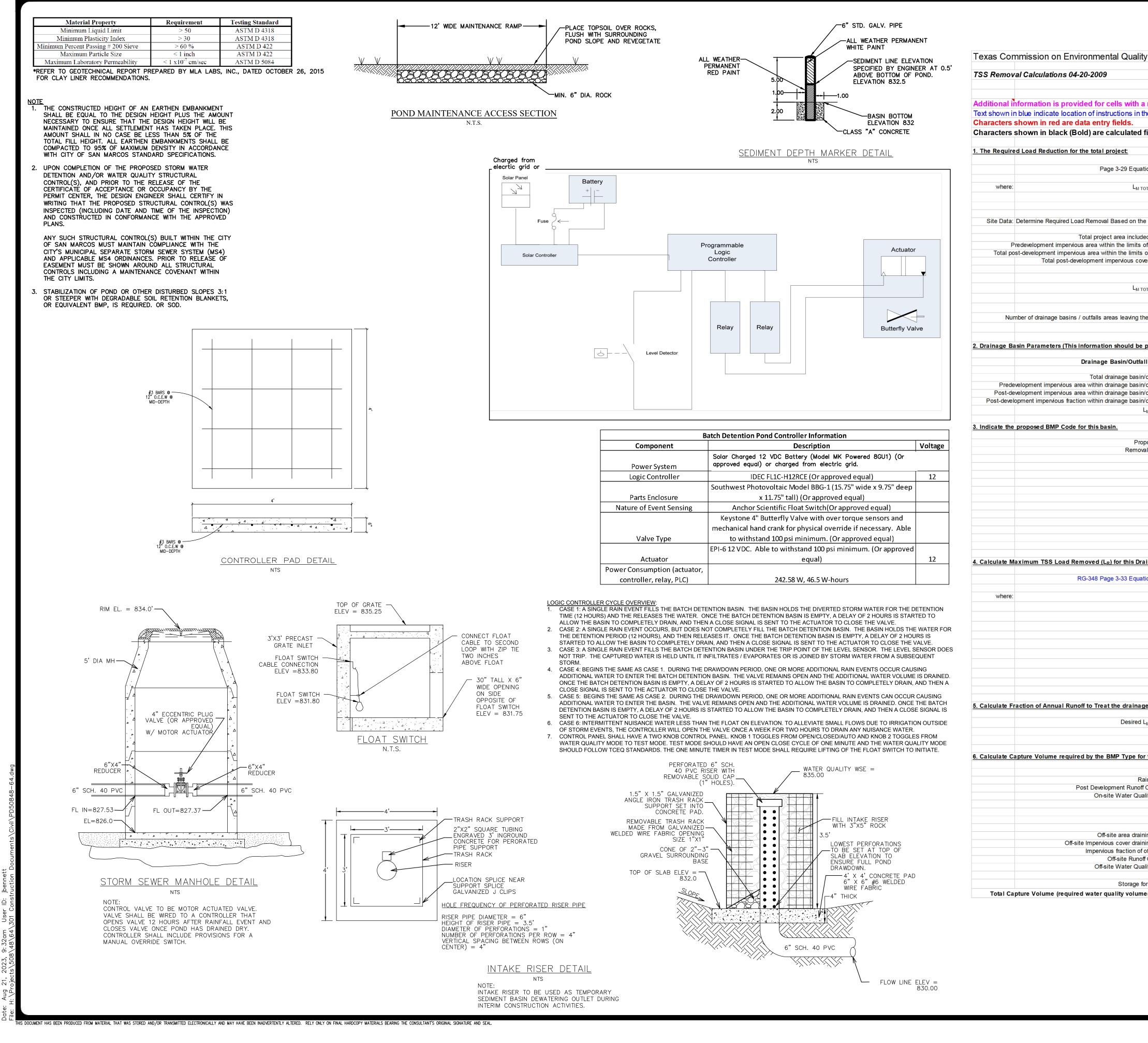
IETER	4.00	lin
LEV	827.45	ORIFICE EQUATION
TROID ELEV	827.62	$Q = CA_o \sqrt{2gH}$
A (Ao)	0.087	sf $\mathcal{Q} = \mathcal{Q} \mathcal{I}_o \sqrt{2g} \mathcal{I}$
FFICIENT	0.6	

CALCULATE 24 HR DRAWDOWN ELEVATION FOR WATER QUALITY POND (USE IN DETENTION MODEL)

own Time	13.1	hours
Drawdown Time (Max. 48 Hours)	25.1	hours
arge Rate (Average)	1.05	cfs

ATIONS							
RQUALITY	AVERAGE DRAWDOWN FLOWRATE	PIPE	MANNINGS	PIPE	FULL FLOW		FRICTION
OLUME	FROM ORIFICE (VALVE)	DIAMETER	N	SLOPE	CAPACITY		SLOPE
wqv	Q	D	n	S	Qcap	К	Sf
(cf)	(cfs)	(in)		(ft/ft)			(ft/ft)
49,456	1.05	6	0.010	0.02	1.03	7.29	0.0207





nental Quality 09 or cells with a red triang nstructions in the Technic ntry fields. re calculated fields. Ch al project:			Project Name: Date Prepared:		s Phase	6E				
or cells with a red triang nstructions in the Technic ntry fields. re calculated fields. Ch		vor richt -			s Phase	6E				
nstructions in the Technic n <mark>try fields.</mark> re calculated fields. Ch										
nstructions in the Technic n <mark>try fields.</mark> re calculated fields. Ch		NOP PLATE								
re calculated fields. Ch				cursor over	the cell.			NO		
				<i>.</i>				REVISION		
al project:	anges to the	se fields v	will remove the ed	quations use	ed in the	spreadsheet.				
	Calculations fr	om RG-348		Pages 3-27 to 3	3-30			V V		
Page 3-29 Equation 3.3: L _M =	= 28.9(A _N x P)								ann	up.
L _{M TOTAL PROJECT} =	Required TSS	removal resu								Etys
A _N =		n impervious a	area for the project						X	*
								STEVE	N S. CRA 92677	AUFORD
oval Based on the Entire Proje County =	Hays	1						Sport (CENS	EPINER
roject area included in plan * = within the limits of the plan * =		acres acres							SIONAL E	NGI
a within the limits of the plan* = nt impervious cover fraction * =		acres							8	/21/23
P =	- 33	inches						1	AA	Ŋ
L _{M TOTAL PROJECT} =	10128	lbs.						1	14	
s areas leaving the plan area =	- 0	1								
										.AS 1.8711 801
ation should be provided fo	r each basin):							δ		DALLAS 512.454.87 #10028801
age Basin/Outfall Area No. =	7.15	(1 H I 59 I 5
al drainage basin/outfall area =		acres						IZ		ИОВТ (7875 Зтват
in drainage basin/outfall area = in drainage basin/outfall area =		acres acres	5.08 ac of IC treated	d to 85% TSS R	emoval &	0.55 ac treated to 70	0% removal	IS		IN, TX IN, TX REGIS
in drainage basin/outfall area = L _{M THIS BASIN} =		lbs.	ADJUSTED FOR 85%	% TSS REMOV	AL					I F(AUST FIRM
	377 5508	-	ADJUSTED FOR 70%	% TSS REMOV					Ž	HOUSTON I FORT WORTH I DALLAS STE 200 I AUSTIN, TX 78759 I 512.454.8711 0 I TBPLS FIRM REGISTRATION #10028801
basin.			TOTAL 133 REMOV							HOU STE 0 L T
Proposed BMP = Removal efficiency =		percent						PAPE-DAWS	2	AUSTIN I SAN ANTONIO I HOUSTON I FORT WORTH I 10801 N MOPAC EXPY, BLDG 3, STE 200 I AUSTIN, TX 78759 I TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION
				Aqualogic Cartr Bioretention					K	NTON 9Y, BL RATIC
				Contech Storm Constructed W						AN A C EXF
				Extended Deter Grassy Swale	ntion					NOPA NOPA
				Retention / Irrig Sand Filter	ation					AUSTIN I 0801 N MO TBPE FIRM
				Stormceptor Vegetated Filte	r Strips					АL 108(ТВ
				Vortechs Wet Basin	r otnpo					
				Wet Vault					_	
l (L _R) for this Drainage Basir										
Page 3-33 Equation 3.7: $L_R =$	= (BMP efficienc	y) x P x (A ₁ x	(34.6 + A _P x 0.54)							
0			in the BMP catchme							
			n the BMP catchment the BMP catchment a							
L _R =	TSS Load rem	oved from this	s catchment area by t	the proposed BM	1P					
A _C =	12.89	acres						Ш	ハ	
A ₁ = A _P =		acres acres							<u> </u>	
L _R =		lbs							<u>ц</u>	Ō
								PHASE	م	—
reat the drainage basin / ou	tfall area							구) Č	د د
Desired L _{M THIS BASIN} =	5923	lbs.							J L	A
								Ш	Ι Α	Ш
F =									AN MARCUS	
he BMP Type for this draina	ge basin / outfa	<u>ill area.</u>	Calculations from RG	6-348	Pages 3-3	4 to 3-36			A	10
Rainfall Depth =	= 2.60	inches						<u>U</u>	Л	\sim
velopment Runoff Coefficient = on-site Water Quality Volume =		cubic feet							Ъ С	D
·								KISSING	- -	POND 7.15 DETAILS 1 OF 2
	Calculations fr	om RG-348	Pages 3-36 to 3-37						Ę	₽_
		acres						ر	ر	
		acres								
ervious cover draining to BMP = ervious fraction of off-site area =	- 0									
ervious cover draining to BMP = ervious fraction of off-site area = Off-site Runoff Coefficient =	= 0 = 0.00	cubic feet								
ervious cover draining to BMP = ervious fraction of off-site area = Off-site Runoff Coefficient =	= 0 = 0.00 = 0	cubic feet								
Off-site Water Quality Volume =	= 0 = 0.00 = 0	cubic feet								

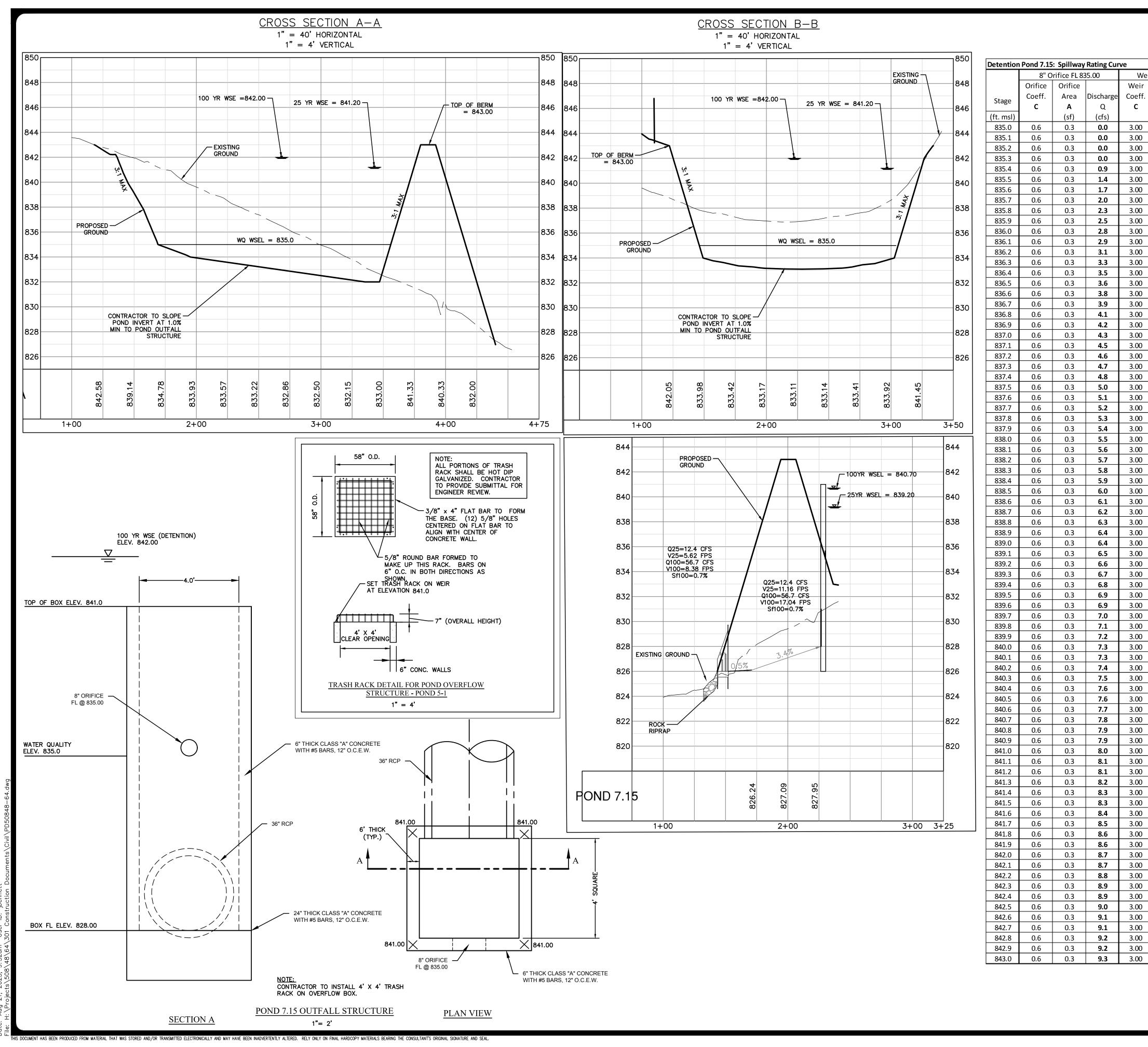
JOB NO. 50848-64

DATE August 21, 2023

CHECKED<u>SC</u>DRAWN_

SHEET 42 OF 76

DESIGNER



		1 at Elev.	841.0			tlet Pipe F			
	Weir Coeff.	Weir Length	Discharge	Total Weir Discharge	Orifice Coeff.	Orifice Area	Maximum	Total Discharge	Comment
	C	Length	Q	Q	соеп. С	Area	Q	Q	comment
		(ft)	(cfs)	(cfs)		(sf)	(cfs)	(cfs)	
	3.00 3.00	16.0 16.0	0.0	0.0 0.0	0.6 0.6	7.1	159.6 161.1	0.0	FL of Orifice #1
	3.00	16.0	0.0	0.0	0.6	7.1	162.5	0.0	
	3.00	16.0	0.0	0.0	0.6	7.1	163.9	0.0	Centroid of Orifice #1
	3.00	16.0	0.0	0.9	0.6	7.1	165.3	0.9	
	3.00 3.00	16.0 16.0	0.0	1.4 1.7	0.6 0.6	7.1 7.1	166.7 168.1	1.4 1.7	
	3.00	16.0	0.0	2.0	0.6	7.1	169.5	2.0	
	3.00	16.0	0.0	2.3	0.6	7.1	170.9	2.3	
	3.00	16.0	0.0	2.5	0.6	7.1	172.2	2.5	
	3.00 3.00	16.0 16.0	0.0	2.8 2.9	0.6 0.6	7.1 7.1	173.5 174.9	2.8 2.9	
	3.00	16.0	0.0	3.1	0.6	7.1	176.2	3.1	
	3.00	16.0	0.0	3.3	0.6	7.1	177.5	3.3	
	3.00	16.0	0.0	3.5	0.6	7.1	178.8	3.5	
	3.00 3.00	16.0 16.0	0.0	3.6 3.8	0.6 0.6	7.1 7.1	180.1 181.4	3.6 3.8	
	3.00	16.0	0.0	3.9	0.6	7.1	182.7	3.9	
	3.00	16.0	0.0	4.1	0.6	7.1	183.9	4.1	
	3.00	16.0	0.0	4.2	0.6	7.1	185.2	4.2	
	3.00 3.00	16.0 16.0	0.0	4.3 4.5	0.6 0.6	7.1 7.1	186.4 187.7	4.3 4.5	
	3.00	16.0	0.0	4.6	0.6	7.1	187.7	4.6	
	3.00	16.0	0.0	4.7	0.6	7.1	190.1	4.7	
	3.00	16.0	0.0	4.8	0.6	7.1	191.3	4.8	
	3.00 3.00	16.0 16.0	0.0	5.0 5.1	0.6 0.6	7.1	192.5 193.7	5.0 5.1	
	3.00	16.0	0.0	5.2	0.6	7.1	194.9	5.2	
	3.00	16.0	0.0	5.3	0.6	7.1	196.1	5.3	
	3.00	16.0	0.0	5.4	0.6	7.1	197.3	5.4	
	3.00 3.00	16.0 16.0	0.0	5.5 5.6	0.6 0.6	7.1 7.1	198.5 199.6	5.5 5.6	
	3.00	16.0	0.0	5.7	0.6	7.1	200.8	5.7	
	3.00	16.0	0.0	5.8	0.6	7.1	201.9	5.8	
	3.00	16.0	0.0	5.9	0.6	7.1	203.1	5.9	
	3.00 3.00	16.0 16.0	0.0	6.0 6.1	0.6 0.6	7.1 7.1	204.2 205.3	6.0 6.1	
	3.00	16.0	0.0	6.2	0.6	7.1	206.5	6.2	
	3.00	16.0	0.0	6.3	0.6	7.1	207.6	6.3	
	3.00	16.0	0.0	6.4	0.6	7.1	208.7	6.4	
	3.00 3.00	16.0 16.0	0.0	6.4 6.5	0.6 0.6	7.1 7.1	209.8 210.9	6.4 6.5	
	3.00	16.0	0.0	6.6	0.6	7.1	212.0	6.6	
	3.00	16.0	0.0	6.7	0.6	7.1	213.1	6.7	
	3.00	16.0	0.0	6.8	0.6	7.1	214.2	6.8	
	3.00 3.00	16.0 16.0	0.0	6.9 6.9	0.6 0.6	7.1 7.1	215.3 216.3	6.9 6.9	
	3.00	16.0	0.0	7.0	0.6	7.1	217.4	7.0	
	3.00	16.0	0.0	7.1	0.6	7.1	218.5	7.1	
	3.00	16.0	0.0	7.2	0.6	7.1	219.5	7.2	
	3.00 3.00	16.0 16.0	0.0	7.3 7.3	0.6 0.6	7.1 7.1	220.6 221.6	7.3 7.3	
	3.00	16.0	0.0	7.5	0.6	7.1	2221.0	7.3	
	3.00	16.0	0.0	7.5	0.6	7.1	223.7	7.5	
	3.00	16.0	0.0	7.6	0.6	7.1	224.7	7.6	
	3.00 3.00	16.0 16.0	0.0	7.6 7.7	0.6 0.6	7.1 7.1	225.8 226.8	7.6 7.7	
	3.00	16.0	0.0	7.8	0.6	7.1	220.8	7.7	
	3.00	16.0	0.0	7.9	0.6	7.1	228.8	7.9	
	3.00	16.0	0.0	7.9	0.6	7.1	229.8	7.9	
	3.00 3.00	16.0 16.0	0.0	8.0 9.6	0.6 0.6	7.1	230.8 231.8	8.0 9.6	Weir 1 Elevation
	3.00	16.0	4.3	9.0 12.4	0.6	7.1	231.8	12.4	25 YR WSEL
	3.00	16.0	7.9	16.1	0.6	7.1	233.8	16.1	
	3.00	16.0	12.1	20.4	0.6	7.1	234.8	20.4	
	3.00 3.00	16.0 16.0	17.0 22.3	25.3 30.7	0.6 0.6	7.1 7.1	235.8 236.8	25.3 30.7	
	3.00	16.0	22.3	36.6	0.6	7.1	230.8	36.6	
	3.00	16.0	34.3	42.9	0.6	7.1	238.7	42.9	
	3.00	16.0	41.0	49.6	0.6	7.1	239.7	49.6	
	3.00 3.00	16.0 16.0	48.0 55.4	56.7 64.1	0.6 0.6	7.1 7.1	240.7 241.6	56.7 64.1	100 YR WSEL
	3.00	16.0	63.1	64.1 71.9	0.6	7.1	241.6	64.1 71.9	
	3.00	16.0	71.1	80.0	0.6	7.1	243.5	80.0	
	3.00	16.0	79.5	88.5	0.6	7.1	244.5	88.5	
	3.00 3.00	16.0	88.2 97 1	97.2 106.2	0.6	7.1	245.4 246.4	97.2 106.2	
	3.00	16.0 16.0	97.1 106.4	106.2	0.6 0.6	7.1 7.1	246.4	106.2	
	3.00	16.0	115.9	125.1	0.6	7.1	248.2	125.1	
•	3.00	16.0	125.7	135.0	0.6	7.1	249.2	135.0	

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(cfs)

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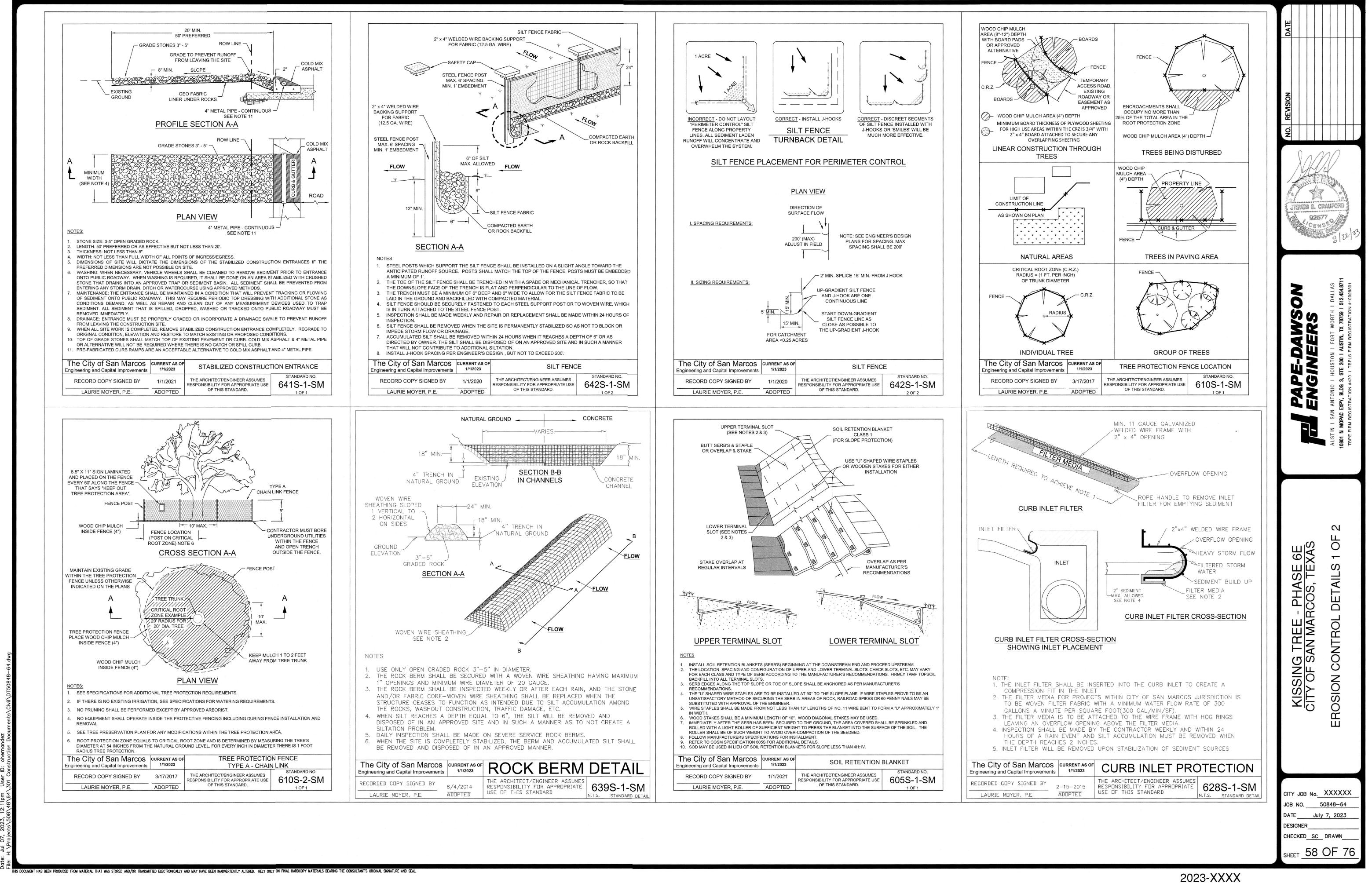
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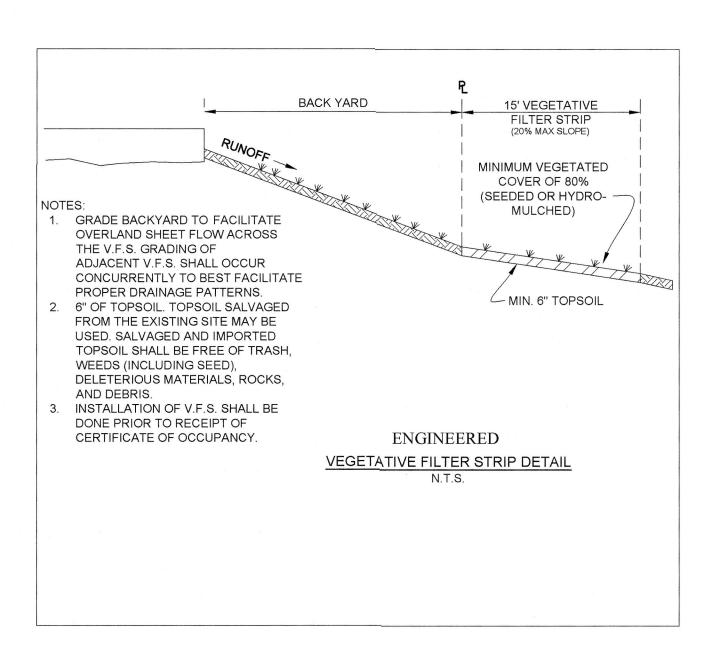
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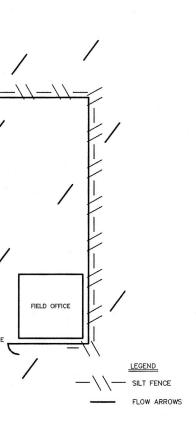
4.6

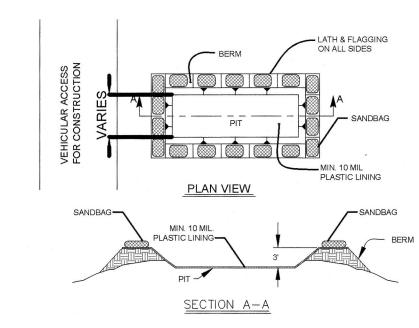
DATE DATE DATE DATE DATE DATE DATE DATE	7
ENGINEERS	AUSTIN I SAN ANTONIO I HOUSTON I FORT WORTH I DALLAS 10801 N MOPAC EXPY, BLDG 3, STE 200 I AUSTIN, TX 78759 I 512.454.8711 TBPE FIRM REGISTRATION #470 I TBPLS FIRM REGISTRATION #10028801
KISSING TREE - PHASE 6E CITY OF SAN MARCOS, TEXAS	POND 7.15 DETAILS 2 OF 2
CITY JOB No JOB NO DATEAugus DESIGNER CHECKED SC SHEET	0848-64 t 21, 2023



1 <u>//_//_//_//_//_//</u>__ CONSTRUCTION EQUIPMENT & VEHICLE STORAGE AND MATERIAL STORAGE AREA TYP. CONSTRUCTION STAGING AREA THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL







MATERIALS:

- 1) Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.
- INSPECTION AND MAINTENANCE GUIDELINES: 1) When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of.
- 2) Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of.
- Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

- GENERAL NOTES: 1) Detail above illustrates minimum dimensions. Pit can be
- increased in size depending on expected frequency of use. 2) Washout pit shall be located in an area easily accessible to construction traffic.
- 3) Washout pit shall not be located in areas subject to inundation from storm water runoff.
- 4) Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies.
- 5) Temporary concrete washout facility should be constructed with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations.
- CONCRETE TRUCK WASHOUT PIT

NO. REVISION
THE FIRM REGISTRATION #470 I TEPLS FIRM REGISTRATION #10028801
KISSING TREE - PHASE 6E CITY OF SAN MARCOS, TEXAS EROSION CONTROL DETAILS 2 OF 2
CITY JOB No. XXXXXX JOB NO. 50848-64 DATE July 7, 2023 DESIGNER CHECKED SC DRAWN SHEET 59 OF 76

2023-XXXX