TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)

Modification of a Previously Approved CONTRIBUTING ZONE PLAN (CZP)

For: <u>AAA FM 3405</u>

a 22.94-acre property located at:

4651 FM 3405 Georgetown, Texas 78633

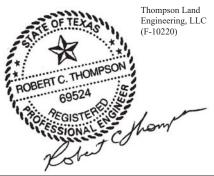
Prepared for the Customer:

JMA Entity, LLC 4203 Spinnaker Cove Austin, Texas 78731

Prepared by the Applicant:

Mr. Robert Thompson, P.E. Thompson Land Engineering, LLC 904 N Cuernavaca DR Austin, Texas 78733

October 2024



10/11/2024

Modification of a Previously Approved Contributing Zone Plan Checklist

- Edwards Aquifer Application Cover Page (TCEQ-20705)
- Modification of a Previously Approved Contributing Zone Plan Application Form (TCEQ-10259)
 - Attachment A Original Approval Letter
 - Attachment B Narrative of Proposed Modification
 - Attachment C Current Site Plan of the approved project

Contributing Zone Plan Application Form (TCEQ-10257)

- Attachment A Road Map
- Attachment B USGS Quadrangle Map
- Attachment C Project Narrative
- Attachment D Factors Affecting Surface Water Quality
- Attachment E Volume and Character of Stormwater
- Attachment F Suitability Letter from Authorized Agent (if OSSF is proposed)
- Attachment G Alternative Secondary Containment Methods (if AST with an alternative method of secondary containment is proposed)
- Attachment H AST Containment Structure Drawings (if AST is proposed)
- Attachment I 20% or Less Impervious Cover Declaration (if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site)
- Attachment J BMPs for Upgradient Stormwater
- Attachment K BMPs for On-site Stormwater
- Attachment L BMPs for Surface Streams
- Attachment M Construction Plans
- Attachment N Inspection, Maintenance, Repair and Retrofit Plan
- Attachment O Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs
- Attachment P Measures for Minimizing Surface Stream Contamination

Temporary Stormwater Section (TCEQ-0602)

- Attachment A Spill Response Actions
- Attachment B Potential Sources of Contamination
- Attachment C Sequence of Major Activities
- Attachment D Temporary Best Management Practices and Measures
- Attachment E Request to Temporarily Seal a Feature, if sealing a feature
- Attachment F Structural Practices
- Attachment G Drainage Area Map
- Attachment H Temporary Sediment Pond(s) Plans and Calculations
- Attachment I Inspection and Maintenance for BMPs
- Attachment J Schedule of Interim and Permanent Soil Stabilization Practices
- Copy of Notice of Intent (NOI)
- Agent Authorization Form (TCEQ-0599), if application submitted by agent
- Application Fee Form (TCEQ-0574)
- Check Payable to the "Texas Commission on Environmental Quality (TCEQ)"
- Core Data Form (TCEQ-10400)

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 Modifications". 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: AAA FM 3405			2. Regulated Entity No.: RN 111705539			
3. Customer Name: JMA Entity, LLC		4. Customer No.: CN 606122752				
5. Project Type: (Please circle/check one)	New	Modification	Modification Extension			
6. Plan Type: (Please circle/check one)	WPAP	SCS UST AST	EXP EX	T Technical Clarification	Optional Enhanced Measures	
7. Land Use: (Please circle/check one)	Residential 🤇	Non-residential	Non-residential 8. Sit		22.94	
9. Application Fee:	\$6,500	10. Permanent BMP(s):		Two (2) Sand (3) Vegetative	Filter Systems and three Filter Strips	
11. SCS (Linear Ft.):	Zero	12. AST/UST (No. Tanks):		: Zero		
13. County:	Williamson	14. Watershed:			North Fork San Gabriel River (Lake Georgetown)	

Application Distribution

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

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

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

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

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

Austin Region

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.

Robert C. Thompson

Print Name of Customer/Authorized Agent

Lobes C Shommon

October 2, 2024

Signature of Customer/Authorized Agent

Date

**FOR TCEQ INTERNAL USE ONLY	*			
Date(s)Reviewed:	Da	Date Administratively Complete:		
Received From:	Сс	Correct Number of Copies:		
Received By:	Di	Distribution Date:		
EAPP File Number:	Co	mplex:		
Admin. Review(s) (No.):	N	o. AR R	ounds:	
Delinquent Fees (Y/N):	Re	Review Time Spent:		
Lat./Long. Verified:	SC	SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):	Fe	ρ	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):		neck:	Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

Modification of a Previously Approved Contributing Zone Plan

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Robert C. Thompson

Date: <u>October 1, 2024</u>

Signature of Customer/Agent:

Lofert CShommon

Project Information

 Current Regulated Entity Name: <u>AAA FM 3405</u> Original Regulated Entity Name: <u>AAA FM 3405</u> Assigned Regulated Entity Number(s) (RN): <u>111705539</u> Edwards Aquifer Protection Program ID Number(s): <u>11003541</u>

The applicant has not changed and the Customer Number (CN) is: 606122752

The applicant or Regulated Entity has changed. A new Core Data Form has been provided.

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

 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>16.90</u>	<u>22.94</u>
Type of Development	warehouse/self-storage	warehouse/self-storage
Number of Residential	<u>1</u>	<u>1</u>
Lots		
Impervious Cover (acres)	4.63	<u>11.57</u>
Impervious Cover (%)	<u>59.0</u>	<u>50.0</u>
Permanent BMPs	<u>3</u>	<u>5</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 Attachment B: Narrative of Proposed Modification.
8.	Submit one (1) original and one (1) copy of the application, plus additional copies as

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

Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Erin E. Chancellor, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 2, 2023

Mr. John Muhich JMA Entity, LLC 4203 Spinnaker Cove Austin, Texas 78731

Re: Approval of a Contributing Zone Plan (CZP) AAA FM 3405; Located at 4651 FM 3405, Georgetown, Williamson County, Texas Edwards Aquifer Protection Program ID: 11003541, Regulated Entity No. RN111705539

Dear Mr. Muhich:

The Texas Commission on Environmental Quality (TCEQ) has completed its review on the application for the above-referenced project submitted to the Edwards Aquifer Protection Program (EAPP) by Thompson Land Engineering, LLC on behalf of the applicant, JMA Entity, LLC on March 24, 2023. Final review of the application was completed after additional material was received on May 12, 2023 and May 16, 2023.

As presented to the TCEQ, the application was prepared in general compliance with the requirements of 30 Texas Administrative Codes (TAC) Chapter §213. The permanent best management practices (BMPs) and measures represented in the application were prepared by a Texas licensed professional engineer (PE). All construction plans and design information were sealed, signed, and dated by a Texas licensed PE. Therefore, the application for the construction of the proposed project and methods to protect the Edwards Aquifer are **approved**, subject to applicable state rules and the conditions in this letter.

This approval expires two 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 officially requested. This approval or extension will expire, and no extension will be granted if more than 50 percent of the project has not been completed within ten years from the date of 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 in accordance with 30 TAC §50.139.

PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 16.90 acres. The project will include the construction of 12 metal warehouse buildings and one office building along with associated drive aisles. The impervious cover will be 10.04 acres (59.40 percent) with 0.94 acres of pre-rule impervious cover. According to a letter dated, March 15, 2023, signed by James L. Lancaster, with Williamson County, the site in the development is acceptable for the use of on-site sewage facilities.

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

Mr. John Muhich Page 2 June 2, 2023

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 (2) sedimentation filtration basins and one (1) 50-foot natural vegetative filter strip, designed using the TCEQ technical guidance, *RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices,* will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 7,921 pounds of TSS generated from the 9.10 acres of new impervious cover. The approved permanent BMPs and measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The permanent BMPS shall be operational prior to occupancy or use of the proposed project. Inspection, maintenance, repair, and retrofit of the permanent BMPs shall be in accordance with the approved application.

STANDARD CONDITIONS

- 1. The plan holder (applicant) must comply with all provisions of 30 TAC Chapter §213 and all technical specifications in the approved plan. The plan holder should also acquire and comply with additional and separate approvals, permits, registrations or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, Dam Safety, Underground Injection Control) as required based on the specifics of the plan.
- 2. In addition to the rules of the Commission, the plan holder must also comply with state and local ordinances and regulations providing for the protection of water quality as applicable.

Prior to Commencement of Construction:

- 3. The plan holder of any approved Edwards Aquifer protection plan must notify the EAPP and obtain approval from the executive director prior to initiating any modification to the activities described in the referenced application following the date of the approval.
- 4. The plan holder must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the EAPP no later than 48 hours prior to commencement of the regulated activity. Notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person.
- 5. Temporary erosion and sedimentation (E&S) controls as described in the referenced application, 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. 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:

- 6. The application must indicate the placement of permanent aboveground storage tanks facilities for static hydrocarbons and hazardous substances with cumulative storage capacity of 500 gallons or more. Subsequent permanent storage tanks on this project site require a modification to be submitted and approved prior to installation.
- 7. 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

Mr. John Muhich Page 3 June 2, 2023

removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.

- 8. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge must be filtered through appropriately selected BMPs.
- 9. 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.
- 10. 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.

After Completion of Construction:

- 11. Owners of permanent BMPs and temporary measures must ensure that the BMPs and measures are constructed and function as designed. A Texas licensed PE **must certify** in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the EAPP within 30 days of site completion.
- 12. 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 or the ownership of the property is transferred to the entity. A copy of the transfer of responsibility must be filed with the executive director through the EAPP within 30 days of the transfer. TCEQ form, Change in Responsibility for Maintenance on Permanent BMPs and Measures (TCEQ-10263), may be used.

The holder of the approved Edwards Aquifer protection plan is responsible for compliance with Chapter §213 and any condition of the approved plan through all phases of plan implementation. Failure to comply with any condition within this approval letter is a violation of Chapter §213 and is subject to administrative rule or orders and penalties as provided under §213.10 of this title (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. Upon legal transfer of this property, the new owner is required to comply with all terms of the approved Edwards Aquifer protection plan.

This action is taken as delegated by the executive director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Dianne Pavlicek-Mesa, P.G. of the Edwards Aquifer Protection Program at 210-403-4074 or the regional office at 512-339-2929.

Sincerely, Lillian Butter

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

LIB/dpm

ATTACHMENT B – NARRATIVE OF PROPOSED MODIFICATION

This <u>Modification of a Previously Approved</u> Contributing Zone Plan (CZP) application is being submitted is to permit the construction of the project known as <u>AAA FM 3405</u>, which is located on <u>16.90-acres</u>. The address for this property is <u>4651 FM 3405</u>, Georgetown, Texas 78633; the property was released from the City of Georgetown's (COA) extraterritorial jurisdiction (ETJ) on October 24th, 2023.

Due to the TXDOT requirement for this project to include public turn-lanes (for both driveway approaches), the additional work in the right-of-way (ROW) is now being included with the CZP permit that is approved for this property.

As shown in the TCEQ total suspended solids (TSS) removal calculations, this project will <u>increase its project area by 6.04-acres</u> (from 16.90 to **22.94-acres**) and the total <u>new impervious cover will increase by **1.53-acres** (from 10.04 to **11.57-acres**), which is **50%** of the new project area.</u>

Note that within the 6.04-acres, there is approximately 1.34-acres of existing pavement from FM 3405. The storm water runoff from both the existing and proposed pavement will flow onto the proposed permanent <u>Engineered Vegetative</u> <u>Filter Strips</u> (one on each side of the added roadway pavement) that will be uniformly graded with less than 20% slopes and will be at least 15-feet wide in the direction of flow, which have been designed per the TCEQ Technical Guidance Manual.



Contributing Zone Plan Application

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: <u>Robert C. Thompson</u>

Date: <u>October 2, 2024</u>

Signature of Customer/Agent:

Hoter Chammon

Regulated Entity Name: AAA FM 3405

Project Information

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

Contact Person: <u>John Muhich</u> Entity: <u>JMA Entity, LLC</u> Mailing Address: <u>4203 Spinnaker Cove</u> City, State: <u>Austin, Texas</u> Telephone: <u>(512) 657-6789</u> Email Address: <u>johnsmuhich@gmail.com</u>

Zip: <u>78731</u> Fax: <u>N/A</u>

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

5. Agent/Representative (If any):

Contact Person: <u>Robert C. Thompson</u> Entity: <u>Thompson Land Engineering, LLC</u> Mailing Address: <u>904 N Cuernavaca Drive</u> City, State: <u>Austin, Texas</u> Telephone: <u>(512) 328-0002</u> Email Address: <u>ric@tleng.net</u>

Zip: <u>78733</u> Fax: <u>N/A</u>

- 6. Project Location:
 - The project site is located inside the city limits of _____.
 - The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
 - \boxtimes 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.

The property is an existing farmstead located south of FM 3405, east of Rol	nald Reagan
Boulevard (and east of Beltorre Drive) and west of S County Road 289.	

- 8. Attachment A Road Map. A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.
- 9. Attachment B USGS Quadrangle Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:

Project site boundaries. USGS Quadrangle Name(s).

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

Existing commercial site Existing industrial site Existing residential site

Existing paved and/or unpaved roads

Undeveloped (Cleared)

Undeveloped (Undisturbed/Not cleared)

Other: Existing residential drive, garage and parking added after 1990

12. The type of project is:

\boxtimes Residential: # of Lots: <u>1</u>	
Residential: # of Living Unit Equivalents:	
Commercial	
Industrial	
Other:	

13. Total project area (size of site): 22.94 Acres

Total disturbed area: <u>19.85</u> Acres

- 14. Estimated projected population: $\underline{2}$
- 15. The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	215,293	÷ 43,560 =	4.94
Parking	219,023	÷ 43,560 =	5.03
Other paved surfaces	69,781	÷ 43,560 =	1.60
Total Impervious Cover	437,374	÷ 43,560 =	11.57

Total Impervious Cover <u>11.57</u> ÷ Total Acreage <u>22.94</u> X 100 = <u>50.0</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.	Туре	of	project:
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X 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
X	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 = _____ $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$

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.

 \square 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 (name) Treatment Plant. The treatment facility is:
Existing. Proposed.
N/A
Permanent Aboveground Storage Tanks(ASTs) ≥ 500

Gallons

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

N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1			
2			
3			
4			
5			
	•	Tota	al 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

Dispenser clearly labeled

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

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

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

Site Plan Requirements

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

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

Site Plan Scale: 1" = <u>20</u>'.

35. 100-year floodplain boundaries:

Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

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

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): <u>FEMA FIRM No. 48491C0275E</u>, revised September 26, 2008.

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

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

- 37. \square A drainage plan showing all paths of drainage from the site to surface streams.
- 38. 🖂 The drainage patterns and approximate slopes anticipated after major grading activities.
- 39. \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. \square 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.



- 48. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 - The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

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

🗌 N/A

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

🗌 N/A

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

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

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

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

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

	Attachment I - 20% or Less Impervious Cover Waiver. The site will be used for
	Attachment 1 - 2070 of Less impervious cover waiver. The site will be used for
r	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
E	BMPs and measures is attached.
	The site will be used for multi family residential developments, schools, or small

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.

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

N/A

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

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

N/A

spe	achment N - Inspection, Maintenance, Repair and Retrofit Plan. A site and BMP ecific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the manent BMPs and measures is attached. The plan fulfills all of the following:
\square	Prepared and certified by the engineer designing the permanent BMPs and measures
\square	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	\mathcal{A}
rec	achment O - Pilot-Scale Field Testing Plan . Pilot studies for BMPs that are not ognized by the Executive Director require prior approval from the TCEQ. A plan for ot-scale field testing is attached.
×//	7

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

🗌 N/A

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

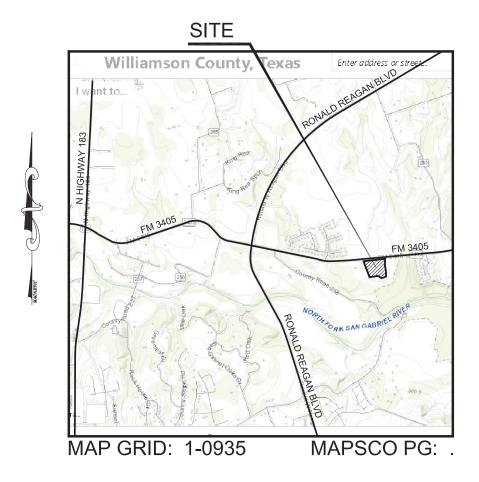
- 59. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or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

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

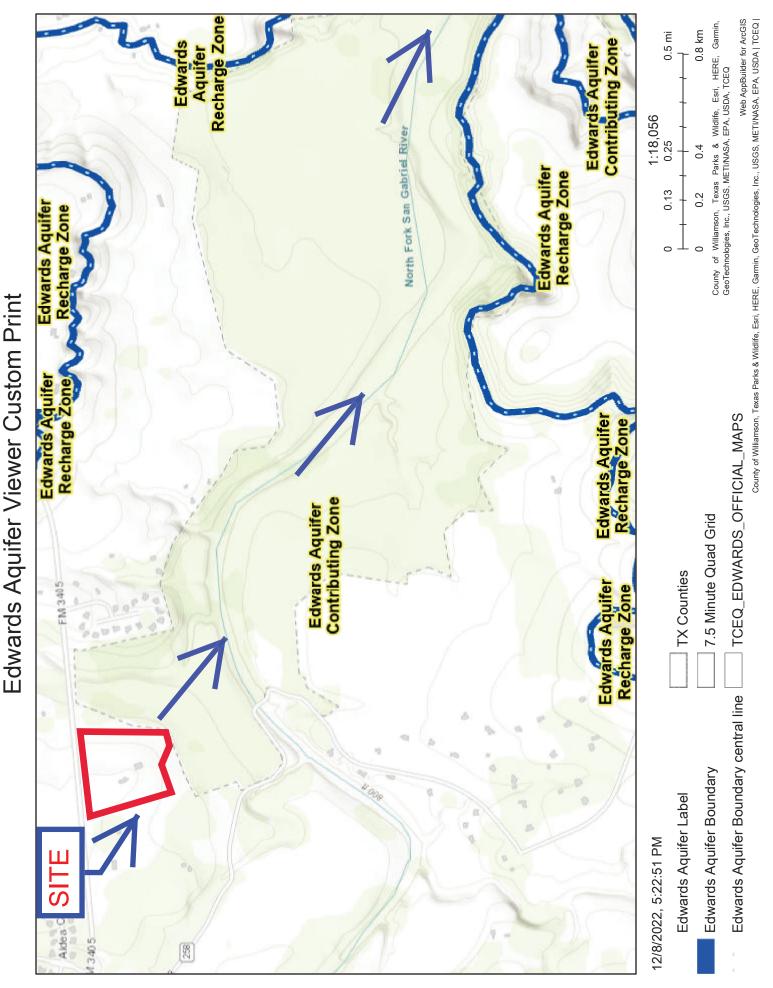
Administrative Information

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

ATTACHMENT A ROAD MAP



ATTACHMENT B



ATTACHMENT C – PROJECT DESCRIPTION

This Contributing Zone Plan (CZP) application is proposing for the addition of various sized metal buildings (for office and warehouse use) to a 16.90-acre tract of land that is mostly vacant, but with an existing single-family residence and farmstead that was built around 1976 (per Tax records). Additionally, this property had some added drives, garage and parking improvements that occurred after 1990, therefore, this project proposes to remove some of this drive, while replacing some (to maintain access to this residence after the project is completed), while also adding water quality treatment for the remaining added drive, garage, and parking.

In addition to the metal building construction, this project will include the associated drive aisles, utilities, and storm water drainage improvements on private property in addition to the public TXDOT turn-lanes with the driveways. The project is anticipated to be constructed in two (2) phases. There are five (5) separate TCEQ BMPs proposed with this plan: two (2) sand filters and three (3) vegetative filter strip (VFS), as seen in the TCEQ total suspended solids (TSS) removal calculations that are proposed with this application. (Due to the drainage divide, the VFS is shown in separate drainage basins in the TSS calculations.) The total onsite impervious cover is expected to have an area of **11.57-acres** or **50.0%** of this **22.94-acre project area**. See the construction plan set for more details. No other construction is currently planned.

ATTACHMENT D – FACTORS AFFECTING WATER QUALITY

The following are potential sources of sediment to stormwater runoff:

- 1) Disturbed earth from rough grading,
- 2) road base for pavement, and
- 3) disturbed earth from the construction of the water quality controls

The following are other potential pollutants and sources to stormwater runoff:

- 1) Construction debris (e.g., wood form boards, nails, tie wire for rebar, survey laths, survey tape, etc.),
- 2) floatable items, such as cups and paper,
- 3) possibly oils from leaking machinery,

- 4) possibly fuel should any refueling activity occur,
- possibly concrete materials from truck washout activities (if not bound), and
- 6) possibly paint from striping activities (if not adhered to something large).

ATTACHMENT E – VOLUME AND CHARACTER OF STORM WATER

Since this project proposes to add over 10-acres of impervious cover, the anticipated stormwater runoff is expected to produce a significant amount of volume and character (quantity and quality) that will be mitigated from the proposed water quality and detention facilities. See the Drainage Area Maps and Calculations on sheets 35-38 in the plan set for the specifics. The water quality will be treated by the BMPs and the detention ponds will reduce these flows and to be less than the existing conditions. The <u>runoff coefficients</u> are shown below:

Pre-construction = 79.70 Post-construction = 89.99

ATTACHMENT F – SUITABILITY LETTER FROM AUTHORIZED AGENT

See below for this property's suitability letter from Williamson County, dated March 15, 2023. The soils and site conditions for this project are suitable to allow the use of on-site sewage facilities (OSSF) based on the surrounding subdivisions, soil survey and received planning materials.

ATTACHMENT G – ALTERNATIVE SECONDARY CONTAINMENT METHODS

This is not applicable for this project.

ATTACHMENT H – AST CONTAINMENT STRUCTURE DRAWINGS

This is not applicable for this project.

ATTACHMENT I – 20% OR LESS IMPERVIOUS COVER (IC) DECLARATION

This is not applicable for this project. This site will have more than 20% IC.

ATTACHMENT J – BMPs FOR UPGRADIENT STORMWATER

Due to the existing topography, this property is situated such that there is no surface water, groundwater or stormwater that originates up-gradient of this site.

ATTACHMENT K – BMPs FOR ON-SITE STORMWATER

The proposed development will convey storm water runoff down the internal drive aisles and into splitter box facilities. There will be two (2) separate Sand Filter systems and three (3) separate Vegetative Filter Strips that are proposed to prevent the pollution of surface water or groundwater that originates onsite. The Sand Filter systems will be constructed of both earthen berms and vertical concrete walls. The natural (onsite) VFS will consist of natural grass areas that extend for at least 50-feet in the direction of flow (and will receive less than 72-feet of contributing runoff). The engineered VFS in the ROW will be 15-feet wide. The TCEQ TSS calculations and notes are provided on the **sheet 38** of the construction plan set (Calculations and Notes). The overflow from the sand filter systems will be conveyed into the adjacent detention pond facilities, which both have flow spreading walls downstream of the pond outfalls.

ATTACHMENT L – BMPs FOR SURFACE STREAMS

The primary source of pollutants from this project (on the proposed impervious cover) will either be conveyed overland on the pavement surface (bounded by curbs, etc.) or in pipes (collected roof runoff), and then, either into the onsite water quality and detention ponds, or over the vegetative filter strips, before being conveyed into any potential downstream surface stream.

ATTACHMENT M – CONSTRUCTION PLANS

See the attached construction plan set (60 sheets).

ATTACHMENT N – INSPECTION, MAINTENANCE, REPAIR AND RETROFIT (IMRR) PLAN

See next page for the IMRR Plan.

ATTACHMENT O – PILOT-SCALE FIELD TESTING PLAN

This is not applicable for this project

ATTACHMENT P – MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

The proposed storm water runoff from the development in this project will continue to match existing drainage patterns. The detention facilities are designed to reduce the flows in post-development conditions to be less than predevelopment for the 2-yr, 10-yr, 25-yr and 100-yr storm events (using the latest Atlas-14 rainfall data). Additionally, during construction, erosion controls will be provided at the detention pond outfalls; therefore, there are no stream contaminations or changes to the way water enters a stream that are expected or known to be likely from this project during or after construction.

ATTACHMENT N

Inspection, Maintenance, Repair and Retrofit (IMRR) Plan

<u>Purpose</u>

This plan is for the "water quality" controls on this site and intended to help the site owner (and whoever is delegated) to maintain the water quality controls.

Construction Plans

This plan is for work constructed under the **Site Development Plan (SDP-____)** from the City of Georgetown. The information and details from those plans are included in this IMRR plan, however, anyone accepting responsibility for maintaining this system should obtain a copy of those plans and become familiar with the construction specifications on those plans.

Description of Controls

The water quality controls are the **sand filter systems** (sedimentation & filtration basins) and the **vegetative filter strips** (natural grass areas) that drain water using gravity. The purpose of these controls is to capture the initial run-off contacting the buildings and parking on this site and treat pollutants washed off from the impervious surfaces before releasing back into the natural ground. The control works as follow:

- Sediments and pollutants in the storm water settle in the "sedimentation basin,"
- Following sedimentation, water flows through and over a rock gabion, and then, enters a "filtration basin" for additional removal of pollutants.
- From the filtration basin, the water goes into perforated pipes wrapped in gravel and ultimately out towards a flow spreading wall where it finally overflows and eventually infiltrates into the downstream soils.
- Vegetative filter strips to receive sheet flow from contributing areas (unconcentrated).

The sand filter systems are sized such that the ponds empty within 48 hours. Any water in excess of the water quality volume will spill over a concrete weir at the pond inlets (the splitter box) and will subsequently flow into the adjacent detention ponds.

General Description of Maintenance Required

The primary components of the water quality control are:

- the flow splitting structure,
- the sedimentation pond,
- the rock gabion dividing the sedimentation pond from the filtration pond,
- the sand bed of the filtration pond,
- the trench irrigation perforated pipe,
- the grass areas.

The flow splitting structure, sedimentation pond, rock gabion, and filtration should not take any maintenance other than periodic cleaning of accumulated silt, and in the sedimentation pond and grass areas, the mowing of the grass. The sand bed of the filtration pond should be periodically raked clean of the accumulation of silt. The opening of the underdrain outfall pipe should be kept clear of accumulation of sediment and vegetation.

The trenched perforated pipe should require no other maintenance than periodic replacement if vandalism occurs, or replacement of rocks if they were to become dislodged. The vegetative filter strips (grass field) should be maintained to allow vegetation to grow and should be kept level so that water distributes evenly.

Specific Maintenance Guidelines

The recommended maintenance guidelines are as follows. Records should be kept of the following and any other maintenance work and inspections, and those records should be kept on site for review by the TCEQ should they request to see them.

Inspections. The water quality control system should be inspected and tested at least six times a year to evaluate facility operation. One of these inspections should be during or immediately following wet weather. Any malfunctions should be repaired immediately. Items which should be inspected include:

- eroded areas at the flow splitting structure,
- distressed or dying grass within the sedimentation pond,
- gabion for accumulation of silt which might block flow
- outfall structure for blockage and/or debris accumulation, and
- areas of water accumulation (paddling).
- eroded areas or areas of uneven flow at the irrigation field,
- dislodged rocks or any problems affecting the flow spreading pipe,

It is also recommended that, at least once during wet weather, for the pond drainage to be timed to confirm that the pond is completely empty within 72 hrs. Any defects identified during these inspections should be repaired within 4 weeks of identification to ensure that significant damage does not occur and to ensure that the site remains in compliance.

<u>Regular Maintenance.</u>

- <u>Sediment Removal</u>. At a minimum, the sediment needs to be removed from the sedimentation pond when sediment buildup fills to 6 inches, or when it accumulates to such a point that it blocks the flow of water to the irrigation pipe.
- <u>Debris and Litter Removal</u>. The areas shall also be checked for accumulation of debris and trash. The debris and trash shall be removed. This should occur no less than 4 times a year. In addition, debris and litter should be removed after each significant rainfall event.
- <u>Mowing and Field Leveling</u>. Regular mowing should occur as often as necessary. If areas have become eroded in the grassy areas, they should be replenished and leveled. Fertilizers should be used at a minimum.

Additional Maintenance:

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, some basic maintenance is required to ensure the health of the treatment, including:

• *Irrigation Areas*. Vegetation must be maintained in the designated grassy areas to prevent erosion and provide additional water quality treatment.

- Mowing. The upper stage, side slopes, and embankment of the sedimentation basin and the vegetative filter strips must be mowed regularly to discourage woody growth and control weeds. Grass areas in and around basins must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. When mowing is performed, a mulching mower should be used, or grass clippings should be caught and removed.
- **Debris and Litter Removal**. Debris and litter will accumulate and should be removed during regular mowing operations and inspections. Particular attention should be paid to floating debris that can eventually clog the system outfall.
- **Erosion Control**. The pond side slopes and embankment may periodically suffer from slumping and erosion, although this should not occur often if the soils are properly compacted during construction. Regrading and revegetation may be required to correct the problems.
- **Nuisance Control**. Standing water or soggy conditions in the basins can create nuisance conditions for nearby residents. Odors, mosquitoes, weeds, and litter are all occasionally perceived to be problems. Most of these problems are generally a sign that regular inspections and maintenance are not being performed (e.g., mowing and debris removal).

Replacement Parts

- <u>Pipe.</u> All of the discharge pipe is standard schedule 80 PVC and may be obtained at any hardware store (such as Home Depot or Lowes).
- <u>Geotextile Fabric.</u> The black, felt looking material inside the rocks at the flow distribution pipes is known as a geotextile fabric. This material might be obtained from a hardware store but can be erosion control contractor or a company specializing in selling these materials such as SI Geosolutions (<u>www.geosolutions.com</u>).
- <u>Gravel.</u> Gravel can be requested from many local soil distributors such as Geo Growers (http://www.geogrowers.net).

Responsible Party: JMA Entity LLC c/o John Muhich - Manager

Name

John Muhh

Signature

12/5/2022

Date

Mailing Address:	4203 Spinnaker Cove
City, State:	Austin, Texas 78731
Telephone:	(254) 466-7304

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: <u>Robert C. Thompson</u>

Date: <u>October 2, 2024</u>

Signature of Customer/Agent:

Hoter C Shommon

Regulated Entity Name: AAA FM 3405

Project Information

Potential Sources of Contamination

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

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

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

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

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

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

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

Sequence of Construction

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

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

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

		 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.	\square	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.	\square	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 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

Spill response actions will be in accordance with Texas Administrative Code (TAC) Title 30, Chapter 327. Corresponding notes have been developed based on that section of the TAC and are included on the General Notes page (in the attached construction plan set) and is also copied below (and continues through to page 5).

The person responsible for cleaning up a spill is:

- the owner or operator of a **facility** from which a spill emanates;
- the owner, operator, or demise charterer of a **vessel** from which a spill emanates; or
- any other person who causes, suffers, allows, or permits a spill or discharge.

Notification, emergency response, spill cleanups that take less than 180 days:

- See <u>https://www.tceq.texas.gov/response/spills/spill_rq.html</u>. Most spills requiring less than 6 months of cleanup are reviewed by the **TCEQ Austin Regional** office staff at (512) 339-2929 (Monday-Friday, 8 a.m. – 5 p.m.) or
- State of Texas Spill-Reporting Hotline at (800) 832-8224 (24-hours)

Cleanups requiring **more than 180 days and spills that impact groundwater** may be referred from the Region office to the Remediation Division for oversight. Contact:

- The TCEQ Austin Regional office at (512) 339-2929, for Travis County or
- The TCEQ Remediation Division, Environmental Cleanup sections at: (512) 239-2200.

SPILL PREVENTION AND CONTROL NOTES (BASED ON TAC 30.327)

A DISCHARGE OR SPILL IS AN ACT OR OMISSION BY WHICH OIL, HAZARDOUS SUBSTANCES, WASTE, OR OTHER SUBSTANCES ARE SPILLED, LEAKED, PUMPED, POURED, EMITTED, ENTERED, OR DUMPED ONTO OR INTO WATERS IN THE STATE OF TEXAS OR BY WHICH THOSE SUBSTANCES ARE DEPOSITED WHERE, UNLESS CONTROLLED OR REMOVED, THEY MAY DRAIN, SEEP, RUN, OR OTHERWISE ENTER WATER IN THE STATE OF TEXAS.

NOTIFICATION REQUIREMENTS

(A) REPORTABLE DISCHARGE OR SPILL. A REPORTABLE DISCHARGE OR SPILL IS A DISCHARGE OR SPILL OF OIL, PETROLEUM PRODUCT, USED OIL, HAZARDOUS SUBSTANCES, INDUSTRIAL SOLID WASTE, OR OTHER SUBSTANCES INTO THE ENVIRONMENT IN A QUANTITY EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITY LISTED IN SECTION 327.4 OF THIS TITLE (RELATING TO REPORTABLE QUANTITIES) IN ANY 24-HOUR PERIOD. (B) INITIAL NOTIFICATION. UPON THE DETERMINATION THAT A REPORTABLE DISCHARGE OR SPILL HAS OCCURRED, THE CONTRACTOR SHALL NOTIFY THE TCEQ AS SOON AS POSSIBLE BUT NOT LATER THAN 24 HOURS AFTER THE DISCOVERY OF THE SPILL OR DISCHARGE.

(C) METHOD OF NOTIFICATION. THE CONTRACTOR SHALL NOTIFY THE TCEQ IN ANY REASONABLE MANNER INCLUDING BY TELEPHONE, IN PERSON, OR BY ANY OTHER METHOD APPROVED BY THE TCEQ. IN ALL CASES, THE INITIAL NOTIFICATION SHALL PROVIDE, TO THE EXTENT KNOWN, THE INFORMATION LISTED IN SUBSECTION (D) OF THIS SECTION. NOTICE PROVIDED UNDER THIS SECTION SATISFIES THE FEDERAL REQUIREMENT TO NOTIFY THE STATE EMERGENCY RESPONSE COMMISSION IN THE STATE OF TEXAS. THE CONTRACTOR SHALL NOTIFY ONE OF THE FOLLOWING:

(1) THE STATE EMERGENCY RESPONSE CENTER AT 1-800-832-8224;

(2) DURING NORMAL BUSINESS HOURS ONLY, THE REGIONAL OFFICE FOR THE TCEQ REGION IN WHICH THE DISCHARGE OR SPILL OCCURRED; OR

(3) THE TCEQ AT THE TCEQ 24-HOUR SPILL REPORTING NUMBER (512) 239-2507 OR (512) 463-7727.

(D) INFORMATION REQUIRED IN INITIAL NOTIFICATION. THE INITIAL NOTIFICATION SHALL PROVIDE, TO THE EXTENT KNOWN, THE INFORMATION IN THE FOLLOWING LIST. COPIES OF SPILL REPORTS PREPARED FOR OTHER GOVERNMENTAL AGENCIES SHALL SATISFY THIS REQUIREMENT IF THEY CONTAIN, OR ARE SUPPLEMENTED TO CONTAIN, ALL THE INFORMATION REQUIRED BY THIS SUBSECTION. THE INITIAL NOTIFICATION SHALL CONTAIN:

(1) THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PERSON MAKING THE TELEPHONE REPORT;

(2) THE DATE, TIME, AND LOCATION OF THE SPILL OR DISCHARGE;

(3) A SPECIFIC DESCRIPTION OR IDENTIFICATION OF THE OIL, PETROLEUM PRODUCT, HAZARDOUS SUBSTANCES OR OTHER SUBSTANCES DISCHARGED OR SPILLED;

(4) AN ESTIMATE OF THE QUANTITY DISCHARGED OR SPILLED;

(5) THE DURATION OF THE INCIDENT;

(6) THE NAME OF THE SURFACE WATER OR A DESCRIPTION OF THE WATERS IN THE STATE AFFECTED OR THREATENED BY THE DISCHARGE OR SPILL;

(7) THE SOURCE OF THE DISCHARGE OR SPILL;

(8) A DESCRIPTION OF THE EXTENT OF ACTUAL OR POTENTIAL WATER POLLUTION OR HARMFUL IMPACTS TO THE ENVIRONMENT AND AN IDENTIFICATION OF ANY ENVIRONMENTALLY SENSITIVE AREAS OR NATURAL RESOURCES AT RISK;

(9) IF DIFFERENT FROM PARAGRAPH (1) OF THIS SUBSECTION, THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF THE CONTRACTOR AND THE CONTACT PERSON AT THE LOCATION OF THE DISCHARGE OR SPILL;

(10) A DESCRIPTION OF ANY ACTIONS THAT HAVE BEEN TAKEN, ARE BEING TAKEN, AND WILL BE TAKEN TO CONTAIN AND RESPOND TO THE DISCHARGE OR SPILL;

(11) ANY KNOWN OR ANTICIPATED HEALTH RISKS;

(12) THE IDENTITY OF ANY GOVERNMENTAL REPRESENTATIVES, INCLUDING LOCAL AUTHORITIES OR THIRD PARTIES, RESPONDING TO THE DISCHARGE OR SPILL; AND

(13) ANY OTHER INFORMATION THAT MAY BE SIGNIFICANT TO THE RESPONSE ACTION.

(E) UPDATE NOTIFICATION. THE CONTRACTOR SHALL NOTIFY THE TCEQ AS SOON AS POSSIBLE WHENEVER NECESSARY TO PROVIDE INFORMATION THAT WOULD TRIGGER A CHANGE IN THE RESPONSE TO THE SPILL OR DISCHARGE.

(F) CORRECTION OF RECORDS. NOTIFYING THE TCEQ THAT A REPORTABLE DISCHARGE OR SPILL HAS OCCURRED SHALL NOT BE CONSTRUED AS AN ADMISSION THAT POLLUTION HAS OCCURRED. FURTHERMORE, IF THE CONTRACTOR DETERMINES, AFTER NOTIFICATION, THAT A REPORTABLE DISCHARGE OR SPILL DID NOT OCCUR, THE CONTRACTOR MAY SEND A LETTER TO THE TCEQ DOCUMENTING THAT DETERMINATION. IF THE EXECUTIVE DIRECTOR AGREES WITH THAT DETERMINATION, THE EXECUTIVE DIRECTOR WILL NOTE THE DETERMINATION IN COMMISSION RECORDS. IF THE EXECUTIVE DIRECTOR DISAGREES WITH THAT DETERMINATION, THE EXECUTIVE DIRECTOR WILL NOTIFY THE CONTRACTOR WITHIN 30 DAYS.

(G) NOTIFICATION OF LOCAL GOVERNMENTAL AUTHORITIES. IF THE DISCHARGE OR SPILL CREATES AN IMMINENT HEALTH THREAT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND COOPERATE WITH LOCAL EMERGENCY AUTHORITIES (FIRE DEPARTMENT, FIRE MARSHAL, LAW ENFORCEMENT AUTHORITY, HEALTH AUTHORITY, OR LOCAL EMERGENCY PLANNING COMMITTEE (LEPC), AS APPROPRIATE). THE RESPONSIBLE PARTY WILL COOPERATE WITH THE LOCAL EMERGENCY AUTHORITY IN PROVIDING SUPPORT TO IMPLEMENT APPROPRIATE NOTIFICATION AND RESPONSE ACTIONS. THE LOCAL EMERGENCY AUTHORITY, AS NECESSARY, WILL IMPLEMENT ITS EMERGENCY MANAGEMENT PLAN, WHICH MAY INCLUDE NOTIFYING AND EVACUATING AFFECTED PERSONS. IN THE ABSENCE OF A LOCAL EMERGENCY AUTHORITY, THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO NOTIFY POTENTIALLY AFFECTED PERSONS OF THE IMMINENT HEALTH THREAT.

(H) NOTIFICATION TO PROPERTY OWNER AND RESIDENTS. AS SOON AS POSSIBLE, BUT NO LATER THAN TWO WEEKS AFTER DISCOVERY OF THE SPILL OR DISCHARGE, THE CONTRACTOR SHALL REASONABLY ATTEMPT TO NOTIFY THE OWNER (IF IDENTIFIABLE) OR OCCUPANT OF THE PROPERTY UPON WHICH THE DISCHARGE OR SPILL OCCURRED AS WELL AS THE OCCUPANTS OF ANY PROPERTY THAT THE CONTRACTOR REASONABLY BELIEVES IS ADVERSELY AFFECTED.

(I) ADDITIONAL NOTIFICATION REQUIRED.

(1) NOTICE PROVIDED UNDER THIS SECTION SATISFIES THE FEDERAL REQUIREMENT TO NOTIFY THE STATE EMERGENCY RESPONSE COMMISSION IN THE STATE OF TEXAS. HOWEVER, COMPLYING WITH THE NOTIFICATION REQUIREMENTS SET FORTH IN THIS SECTION DOES NOT RELIEVE, SATISFY, OR FULFILL ANY OTHER NOTIFICATION REQUIREMENTS IMPOSED BY PERMIT OR OTHER LOCAL, STATE, OR FEDERAL LAW. THE CONTRACTOR SHOULD CONTACT THE LOCAL AUTHORITIES TO DETERMINE IF ANY ADDITIONAL NOTIFICATION IS REQUIRED AND SHOULD CONSULT WITH THE TECQ AS TO WHETHER ANY ADDITIONAL STATE OR FEDERAL NOTIFICATION IS REQUIRED.

(J) ALTERNATIVE NOTIFICATION PLANS.

(1) CONTRACTORS IN CHARGE OF ACTIVITIES AND FACILITIES MAY SUBMIT AND IMPLEMENT AN ALTERNATIVE NOTIFICATION PLAN. THIS ALTERNATIVE NOTIFICATION PLAN SHALL COMPLY WITH THE TEXAS WATER CODE, SECTION 26.039. CONTRACTORS SHALL OBTAIN THE TCEQ'S WRITTEN APPROVAL BEFORE IMPLEMENTING ANY ALTERNATIVE NOTIFICATION PLAN.

(2) UPON APPROVAL OF THE TCEQ REGIONAL MANAGER, CONTRACTORS MAY PROVIDE THE INITIAL NOTIFICATION BY FACSIMILE TO THE REGIONAL OFFICE DURING NORMAL BUSINESS HOURS.

REPORTABLE QUANTITIES (RQ)

(A) HAZARDOUS SUBSTANCES. THE REPORTABLE QUANTITIES FOR HAZARDOUS SUBSTANCES SHALL BE:

(1) FOR SPILLS OR DISCHARGES ONTO LAND--THE QUANTITY DESIGNATED AS THE FINAL REPORTABLE QUANTITY (RQ) IN TABLE 302.4 IN 40 CFR SECTION 302.4; OR

(2) FOR SPILLS OR DISCHARGES INTO WATERS IN THE STATE--THE QUANTITY DESIGNATED AS THE FINAL RQ IN TABLE 302.4 IN 40 CFR SECTION 302.4, EXCEPT WHERE THE FINAL RQ IS GREATER THAN 100 POUNDS IN WHICH CASE THE RQ SHALL BE 100 POUNDS.

(B) OIL, PETROLEUM PRODUCT, AND USED OIL.

(1) THE RQ FOR CRUDE OIL AND OIL OTHER THAN THAT DEFINED AS PETROLEUM PRODUCT OR USED OIL SHALL BE:

(A) FOR SPILLS OR DISCHARGES ONTO LAND--210 GALLONS (FIVE BARRELS); OR

(B) FOR SPILLS OR DISCHARGES DIRECTLY INTO WATER IN THE STATE--QUANTITY SUFFICIENT TO CREATE A SHEEN.

(2) THE RQ FOR PETROLEUM PRODUCT AND USED OIL SHALL BE:

(A) EXCEPT AS NOTED IN SUBPARAGRAPH (B) OF THIS PARAGRAPH, FOR SPILLS OR DISCHARGES ONTO LAND--25 GALLONS;

(B) FOR SPILLS OR DISCHARGES TO LAND FROM PST EXEMPTED FACILITIES--210 GALLONS (FIVE BARRELS); OR

(C) FOR SPILLS OR DISCHARGES DIRECTLY INTO WATER IN THE STATE--QUANTITY SUFFICIENT TO CREATE A SHEEN.

(C) INDUSTRIAL SOLID WASTE OR OTHER SUBSTANCES. THE RQ FOR SPILLS OR DISCHARGES INTO WATER IN THE STATE SHALL BE 100 POUNDS.

ACTIONS REQUIRED

(A) THE CONTRACTOR SHALL IMMEDIATELY ABATE AND CONTAIN THE SPILL OR DISCHARGE AND COOPERATE FULLY WITH THE EXECUTIVE DIRECTOR AND THE LOCAL INCIDENT COMMAND SYSTEM. THE CONTRACTOR SHALL ALSO BEGIN REASONABLE RESPONSE ACTIONS WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING ACTIONS:

(1) ARRIVAL OF THE CONTRACTOR OR RESPONSE PERSONNEL HIRED BY THE CONTRACTOR AT THE SITE OF THE DISCHARGE OR SPILL;

(2) INITIATING EFFORTS TO STOP THE DISCHARGE OR SPILL;

(3) MINIMIZING THE IMPACT TO THE PUBLIC HEALTH AND THE ENVIRONMENT;

(4) NEUTRALIZING THE EFFECTS OF THE INCIDENT;

(5) REMOVING THE DISCHARGED OR SPILLED SUBSTANCES; AND

(6) MANAGING THE WASTES.

(B) UPON REQUEST OF THE LOCAL GOVERNMENT RESPONDERS OR THE EXECUTIVE DIRECTOR, THE CONTRACTOR SHALL PROVIDE A VERBAL OR WRITTEN DESCRIPTION, OR BOTH, OF THE PLANNED RESPONSE ACTIONS AND ALL ACTIONS TAKEN BEFORE THE LOCAL GOVERNMENTAL RESPONDERS OR THE EXECUTIVE DIRECTOR ARRIVE. WHEN THE TCEQ ON-SCENE COORDINATOR REQUESTS THIS INFORMATION, IT IS SUBJECT TO POSSIBLE ADDITIONAL RESPONSE ACTION REQUIREMENTS BY THE EXECUTIVE DIRECTOR. THE INFORMATION WILL SERVE AS A BASIS FOR THE EXECUTIVE DIRECTOR TO DETERMINE THE NEED FOR: (1) FURTHER RESPONSE ACTIONS BY THE CONTRACTOR;

(2) INITIATING STATE FUNDED ACTIONS FOR WHICH THE CONTRACTOR MAY BE HELD LIABLE TO

THE MAXIMUM EXTENT ALLOWED BY LAW; AND

(3) SUBSEQUENT REPORTS ON THE RESPONSE ACTIONS.

(C) EXCEPT FOR DISCHARGES OR SPILLS OCCURRING DURING THE NORMAL COURSE OF TRANSPORTATION ABOUT WHICH CARRIERS ARE REQUIRED TO FILE A WRITTEN REPORT WITH THE U.S. DEPARTMENT OF TRANSPORTATION UNDER 49 CFR SECTION 171.16, THE CONTRACTOR SHALL SUBMIT WRITTEN INFORMATION, SUCH AS A LETTER, DESCRIBING THE DETAILS OF THE DISCHARGE OR SPILL AND SUPPORTING THE ADEQUACY OF THE RESPONSE ACTION, TO THE APPROPRIATE TCEQ REGIONAL MANAGER WITHIN 30 WORKING DAYS OF THE DISCOVERY OF THE REPORTABLE DISCHARGE OR SPILL. THE REGIONAL MANAGER HAS THE DISCRETION TO EXTEND THE DEADLINE. THE DOCUMENTATION SHALL CONTAIN ONE OF THE FOLLOWING ITEMS:

(1) A STATEMENT THAT THE DISCHARGE OR SPILL RESPONSE ACTION HAS BEEN COMPLETED AND A DESCRIPTION OF HOW THE RESPONSE ACTION WAS CONDUCTED. THE STATEMENT SHALL INCLUDE THE INITIAL REPORT INFORMATION REQUIRED BY SECTION 327.3(C) OF THIS TITLE (RELATING TO NOTIFICATION REQUIREMENTS). THE EXECUTIVE DIRECTOR MAY REQUEST ADDITIONAL INFORMATION. APPROPRIATE RESPONSE ACTIONS AT ANY TIME FOLLOWING THE DISCHARGE OR SPILL INCLUDE USE OF THE TEXAS RISK REDUCTION PROGRAM RULES IN CHAPTER 350 OF THIS TITLE (RELATING TO TEXAS RISK REDUCTION PROGRAM).

(2) A REQUEST FOR AN EXTENSION OF TIME TO COMPLETE THE RESPONSE ACTION, ALONG WITH THE REASONS FOR THE REQUEST. THE REQUEST SHALL ALSO INCLUDE A PROJECTED WORK SCHEDULE OUTLINING THE TIME REQUIRED TO COMPLETE THE RESPONSE ACTION. THE EXECUTIVE DIRECTOR MAY GRANT AN EXTENSION UP TO SIX MONTHS FROM THE DATE THE SPILL OR DISCHARGE WAS REPORTED. UNLESS OTHERWISE NOTIFIED BY THE APPROPRIATE REGIONAL MANAGER OR THE EMERGENCY RESPONSE TEAM, THE CONTRACTOR SHALL PROCEED ACCORDING TO THE TERMS OF THE PROJECTED WORK SCHEDULE.
(3) A STATEMENT THAT THE DISCHARGE OR SPILL RESPONSE ACTION HAS NOT BEEN
COMPLETED NOR IS IT EXPECTED TO BE COMPLETED WITHIN THE MAXIMUM ALLOWABLE SIXMONTH EXTENSION. THE STATEMENT SHALL EXPLAIN WHY COMPLETION OF THE RESPONSE ACTION IS NOT FEASIBLE AND INCLUDE A PROJECTED WORK SCHEDULE OUTLINING THE REMAINING TASKS TO COMPLETE THE RESPONSE ACTION. THIS INFORMATION WILL ALSO SERVE AS NOTIFICATION THAT THE RESPONSE ACTIONS TO THE DISCHARGE OR SPILL WILL BE CONDUCTED UNDER THE TEXAS RISK REDUCTION PROGRAM RULES IN CHAPTER 350 OF THIS TITLE (RELATING TO TEXAS RISK REDUCTION PROGRAM).

ATTACHMENT B – POTENTIAL SOURCES OF CONTAMINATION

The only "pollutants" expected from the work during construction are sediment. Mostly inert materials (i.e., pipe, wood, drywall, concrete, etc.) will be stored or installed on the site. No off-site fill material is expected to be brought onto the site (other than crushed limestone base, asphalt, and concrete). No significant chemicals are planned to be stored or distributed on the site. A portable toilet might be on the site during construction, but no spill is expected from maintaining this toilet. Re-fueling of the vehicles is the only other perceived threat, but short of an accidental spill, no threat should be posed. Trash containers shall be used for the construction debris. The only possible "pollutants" expected after the construction has been completed are: pesticides, fertilizers, automotive fluids, and air conditioning condensate.

-	Install erosion controls:	approximately 3-acres
	Control measure: Silt Fence	approximately 1-week
-	Clear, grub, and rough grade site	
	(for the paving and building pads):	approximately 13.43-acres
	Control measure: Silt Fence	approximately 3-weeks
-	Install water & WW utilities:	approximately 2-acres
	Control measures: Silt Fence & Tri. Filter Dikes	approximately 6-weeks
-	Right-of-way Pavement:	approximately 6.0-acres
	Control measures: Silt Fence & Tri. Filter Dikes	approx. 9-months
-	Building Structures:	approximately 4.5-acres
	Control measures: Silt Fence & Tri. Filter Dikes	approx. 18-months (each phase)

ATTACHMENT C – SEQUENCE OF MAJOR ACTIVITIES

(This area intentionally blank)

ATTACHMENT D – TEMPORARY BEST MANAGEMENT PRACTICES (TBMPs)

<u>Silt fence</u> shall be located along the entire down slope grade of this project. No run-off should be able to leave the site without first being filtered by that silt fence. As shown on the Erosion and Sedimentation Controls Plan in the construction set, a <u>stabilized construction entrance</u> will be used to facilitate mud on the wheels of vehicles being removed on site. A <u>concrete washout area</u> shall be provided onsite to prevent or reduce the discharge of pollutants from concrete waste.

Any pollutants are expected to be either soil or attached to soil (unless it is trash which will float) and with the silt fence described, that soil (or any floating trash) is expected to be caught and held until removal. Notes are included on the plans (in relation to the Storm Water Pollution Prevention Plan, SW3P) that specify the minimum maintenance required for silt fence, including cleaning of soil and debris.

There are no sensitive features known to exist near the site; however, run-off will still be released after either filtering through the silt fence or infiltrating through the soil.

ATTACHMENT E – REQUEST TO TEMPORARILY SEAL A FEATURE

This subject is not applicable for this project.

ATTACHMENT F – STRUCTURAL PRACTICES

The drainage area to each work area will be relatively small; therefore, the flows are not diverted around it. Rather, all the run-off is caught and filtered through a silt fence. See the discussion under Temporary BMPs and Measures above.

ATTACHMENT G – DRAINAGE AREA MAP

See the attached construction plan set (sheets 33-36).

ATTACHMENT H – TEMPORARY SEDIMENT POND(S) PLAN & CALCS

This subject is not applicable for this project.

ATTACHMENT I – INSPECTION AND MAINTENANCE FOR BMPs

The following are the basic maintenance requirements of the temporary BMPs:

- <u>Stabilized Construction Entrance</u> removal of sediment and periodically adding stone.
- <u>Silt Fence</u> remove sediment in excess of 6-inches and replaced damaged fabric.
- <u>Triangular Sediment Filter Dikes</u> remove any sediment after rainfall and realign dikes, as needed, to prevent gaps.

Each of the temporary BMP's specific maintenance requirements (from TCEQ's rules in RG-348) are included in the next few pages (after these attachments). Also, the storm water pollution prevention plan notes are included on the General Notes sheet and the Erosion and Sedimentation Controls (ESC) details (stabilized construction entrance, silt fence and concrete washout area) in the construction plan set for the inspection plan of each of these temporary BMPs and measures.

ATTACHMENT J – SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Bare soils should be seeded or otherwise stabilized within 14 calendar days after final grading or where construction activity has temporarily ceased for more than 21 days. The work at this site is relatively small, will happen quickly, and will occur in two (2) phases. The time from the beginning of grading to stabilization is not expected to be more than 11-months; therefore, there is no schedule, other than to complete construction as quickly as possible and then to re-vegetate the site as quickly as possible, in accordance with the re-vegetation notes on the construction plans, which are copied below (on the next page):

PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW:

- A. UNLESS DIRECTED OTHERWISE BY THE OWNER, A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK) AND 1-INCH OF TOPSOIL IN OTHER AREAS.
- B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

BROADCAST SEEDING:

- 1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000-SF OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SF OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.
- 2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 2 POUNDS PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINATION.
- 3. OTHER REQUIREMENTS:

A. FERTILIZER SHALL BE A PELLETED OR GRANULAR SLOW RELEASE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1 POUND PER 1000-SF.

B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000-SF.

HYDRAULIC SEEDING:

- 1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000-SF OF UNHULLED BERMUDA AND 7 POUNDS PER 1000-SF OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.
- 2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINATION.
- 3. OTHER REQUIREMENTS:

A. FERTILIZER SHALL BE A WATER-SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT A RATE OF 1.5 POUNDS PER 1000 SF.

B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45
POUNDS PER 1000 SF, WITH SOIL TACKIFIER AT A RATE OF 1.4 POUNDS PER 1000 SF.
C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT
ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES.
THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO
MONTHS. RAINFALL OCCURRENCES OF « INCH OR MORE SHALL POSTPONE THE
WATERING SCHEDULE FOR ONE WEEK.

D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1« INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.

1.4.2 <u>Temporary Construction Entrance/Exit</u>

The purpose of a temporary gravel construction entrance is to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. A stabilized construction entrance is a stabilized pad of crushed stone located at any point traffic will be entering or leaving the construction site from a public right-of-way, street, alley, sidewalk or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking or flowing of sediment onto public rights-of-way. This practice should be used at all points of construction ingress and egress. Schematic diagrams of a construction entrance/exit are shown in Figure 1-24 and Figure 1-25.

Excessive amounts of mud can also present a safety hazard to roadway users. To minimize the amount of sediment loss to nearby roads, access to the construction site should be limited to as few points as possible and vegetation around the perimeter should be protected were access is not necessary. A rock stabilized construction entrance should be used at all designated access points.

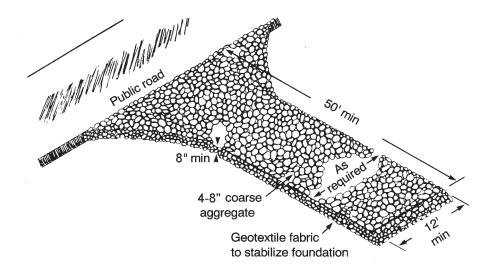


Figure 1-24 Schematic of Temporary Construction Entrance/Exit (after NC, 1993)

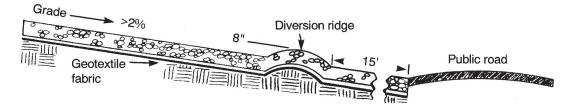


Figure 1-25 Cross-section of a Construction Entrance/Exit (NC, 1993)

Materials:

- (1) The aggregate should consist of 4 to 8 inch washed stone over a stable foundation as specified in the plan.
- (2) The aggregate should be placed with a minimum thickness of 8 inches.
- (3) The geotextile fabric should be designed specifically for use as a soil filtration media with an approximate weight of 6 oz/yd^2 , a mullen burst rating of 140 lb/in², and an equivalent opening size greater than a number 50 sieve.
- (4) If a washing facility is required, a level area with a minimum of 4 inch diameter washed stone or commercial rack should be included in the plans. Divert wastewater to a sediment trap or basin.

Installation: (North Carolina, 1993)

- (1) Avoid curves on public roads and steep slopes. Remove vegetation and other objectionable material from the foundation area. Grade crown foundation for positive drainage.
- (2) The minimum width of the entrance/exit should be 12 feet or the full width of exit roadway, whichever is greater.
- (3) The construction entrance should be at least 50 feet long.
- (4) If the slope toward the road exceeds 2%, construct a ridge, 6 to 8 inches high with 3:1 (H:V) side slopes, across the foundation approximately 15 feet from the entrance to divert runoff away from the public road.
- (5) Place geotextile fabric and grade foundation to improve stability, especially where wet conditions are anticipated.
- (6) Place stone to dimensions and grade shown on plans. Leave surface smooth and slope for drainage.
- (7) Divert all surface runoff and drainage from the stone pad to a sediment trap or basin.
- (8) Install pipe under pad as needed to maintain proper public road drainage.

Common trouble points

- (1) Inadequate runoff control sediment washes onto public road.
- (2) Stone too small or geotextile fabric absent, results in muddy condition as stone is pressed into soil.
- (3) Pad too short for heavy construction traffic extend pad beyond the minimum 50 foot length as necessary.
- (4) Pad not flared sufficiently at road surface, results in mud being tracked on to road and possible damage to road edge.
- (5) Unstable foundation use geotextile fabric under pad and/or improve foundation drainage.

Inspection and Maintenance Guidelines:

- (1) 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.
- (2) All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
- (3) When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- (4) 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.
- (5) All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

1.4.3 Silt Fence

A silt fence is a barrier consisting of geotextile fabric supported by metal posts to prevent soil and sediment loss from a site. When properly used, silt fences can be highly effective at controlling sediment from disturbed areas. They cause runoff to pond, allowing heavier solids to settle out. If not properly installed, silt fences are not likely to be effective. A schematic illustration of a silt fence is shown in Figure 1-26.

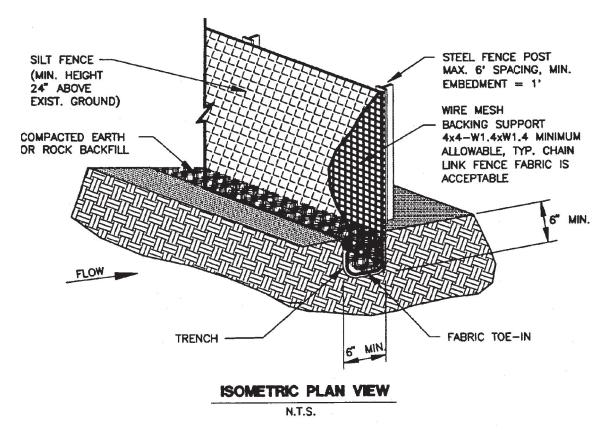


Figure 1-26 Schematic of a Silt Fence Installation (NCTCOG, 1993b)

The purpose of a silt fence is to intercept and detain water-borne sediment from unprotected areas of a limited extent. Silt fence is used during the period of construction near the perimeter of a disturbed area to intercept sediment while allowing water to percolate through. This fence should remain in place until the disturbed area is permanently stabilized. Silt fence should not be used where there is a concentration of water in a channel or drainage way. If concentrated flow occurs after installation, corrective action must be taken such as placing a rock berm in the areas of concentrated flow. Silt fencing within the site may be temporarily moved during the day to allow construction activity provided it is replaced and properly anchored to the ground at the end of the day. Silt fences on the perimeter of the site or around drainage ways should not be moved at any time.

Materials:

- (1) Silt fence material should be polypropylene, polyethylene or polyamide woven or nonwoven fabric. The fabric width should be 36 inches, with a minimum unit weight of 4.5 oz/yd, mullen burst strength exceeding 190 lb/in², ultraviolet stability exceeding 70%, and minimum apparent opening size of U.S. Sieve No. 30.
- (2) Fence posts should be made of hot rolled steel, at least 4 feet long with Tee or Ybar cross section, surface painted or galvanized, minimum nominal weight 1.25 lb/ft², and Brindell hardness exceeding 140.
- (3) Woven wire backing to support the fabric should be galvanized 2" x 4" welded wire, 12 gauge minimum.

Installation:

- (1) Steel posts, which support the silt fence, should be installed on a slight angle toward the anticipated runoff source. Post must be embedded a minimum of 1-foot deep and spaced not more than 8 feet on center. Where water concentrates, the maximum spacing should be 6 feet.
- (2) Lay out fencing down-slope of disturbed area, following the contour as closely as possible. The fence should be sited so that the maximum drainage area is $\frac{1}{4}$ acre/100 feet of fence.
- (3) The toe of the silt fence should be trenched in with a spade or mechanical trencher, so that the down-slope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g., pavement or rock outcrop), weight fabric flap with 3 inches of pea gravel on uphill side to prevent flow from seeping under fence.
- (4) The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
- (5) Silt fence should be securely fastened to each steel support post or to woven wire, which is in turn attached to the steel fence post. There should be a 3-foot overlap, securely fastened where ends of fabric meet.

(6) Silt fence should be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

Common Trouble Points:

- (1) Fence not installed along the contour causing water to concentrate and flow over the fence.
- (2) Fabric not seated securely to ground (runoff passing under fence)
- (3) Fence not installed perpendicular to flow line (runoff escaping around sides)
- (4) Fence treating too large an area, or excessive channel flow (runoff overtops or collapses fence)

Inspection and Maintenance Guidelines:

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

1.4.4 Triangular Sediment Filter Dikes

The purpose of a triangular sediment filter dike (Figure 1-27) is to intercept and detain water-borne sediment from unprotected areas of limited extent. The triangular sediment filter dike is used where there is no concentration of water in a channel or other drainage way above the barrier and the contributing drainage area is less than one acre. If the uphill slope above the dike exceeds 10%, the length of the slope above the dike should be less than 50 feet. If concentrated flow occurs after installation, corrective action should be taken such as placing rock berm in the areas of concentrated flow.

This measure is effective on paved areas where installation of silt fence is not possible or where vehicle access must be maintained. The advantage of these controls is the ease with which they can be moved to allow vehicle traffic, then reinstalled to maintain sediment control.

Materials:

- (1) Silt fence material should be polypropylene, polyethylene or polyamide woven or nonwoven fabric. The fabric width should be 36 inches, with a minimum unit weight of 4.5 oz/yd, mullen burst strength exceeding 190 lb/in², ultraviolet stability exceeding 70%, and minimum apparent opening size of U.S. Sieve No. 30.
- (2) The dike structure should be 6 gauge 6" x 6" wire mesh folded into triangular form being eighteen (18) inches on each side.

Installation:

- As shown in the diagram (Figure 1-27), the frame should be constructed of 6" x 6", 6 gauge welded wire mesh, 18 inches per side, and wrapped with geotextile fabric the same composition as that used for silt fences.
- (2) Filter fabric should lap over ends six (6) inches to cover dike to dike junction; each junction should be secured by shoat rings.
- (3) Position dike parallel to the contours, with the end of each section closely abutting the adjacent sections.
- (4) There are several options for fastening the filter dike to the ground as shown in Figure 1-27. The fabric skirt may be toed-in with 6 inches of compacted material, or 12 inches of the fabric skirt should extend uphill and be secured with a minimum of 3 inches of open graded rock, or with staples or nails. If these two options are not feasible the dike structure may be trenched in 4 inches.

- (5) Triangular sediment filter dikes should be installed across exposed slopes during construction with ends of the dike tied into existing grades to prevent failure and should intercept no more than one acre of runoff.
- (6) When moved to allow vehicular access, the dikes should be reinstalled as soon as possible, but always at the end of the workday.

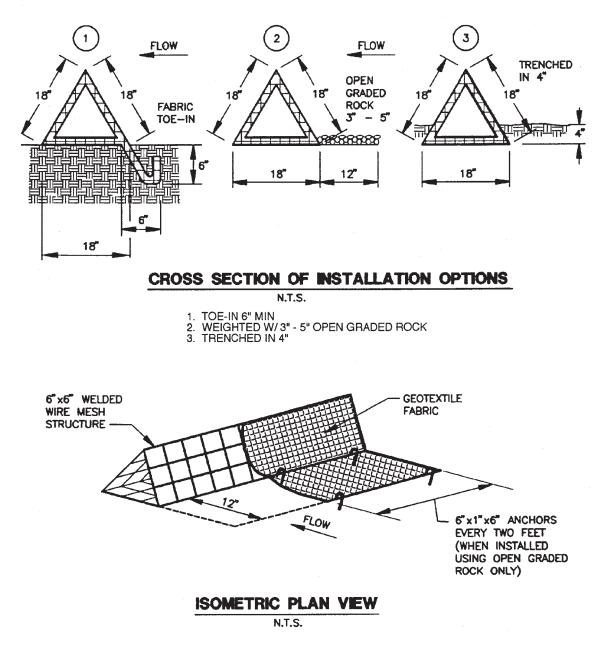


Figure 1-27 Schematic of a Triangular Filter Dike (NCTCOG, 1993)

Common Trouble Points:

- (1) Fabric skirt missing, too short, or not securely anchored (flows passing under dike).
- (2) Gap between adjacent dikes (runoff passing between dikes).
- (3) Dike not placed parallel to contour (runoff flowing around dike).

Inspection and Maintenance Guidelines:

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

1.4.18 Concrete Washout Areas

The purpose of concrete washout areas is to prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors.

The following steps will help reduce stormwater pollution from concrete wastes:

- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped onsite, except in designated areas.

For onsite washout:

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

Below grade concrete washout facilities are typical. These consist of a lined excavation sufficiently large to hold expected volume of washout material. Above grade facilities are used if excavation is not practical. Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this section, with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. 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.

When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. 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.

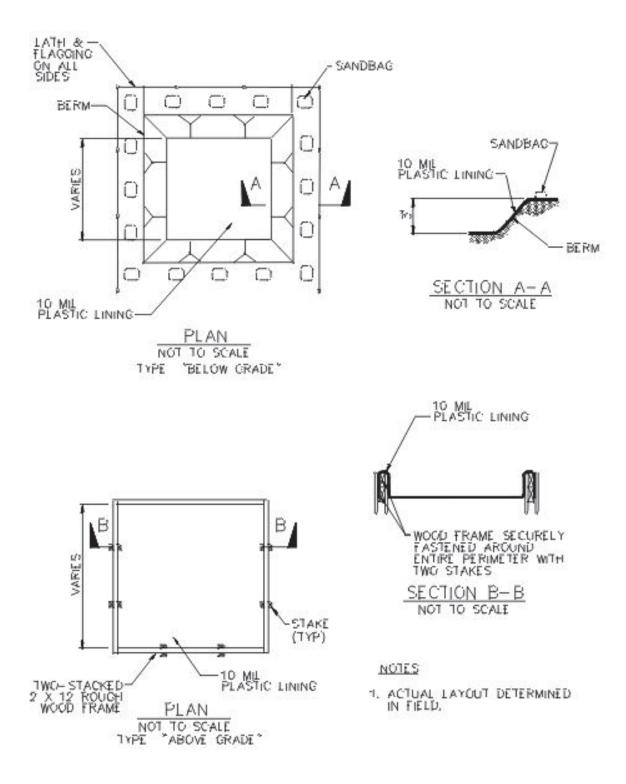


Figure 1-43 Schematics of Concrete Washout Areas

Inspection & Maintenance (Attachment I continuation)

Project Name: AAA FM 3405

SWPPP Contact:

BEST MANAGEMENT PRACTICE INSPECTION AND MAINTENANCE REPORT FORM

SILT FENCE

Name of Inspector: _____ Days Since Last Rainfall: _____

Inspection Date: _____ Amount of Last Rainfall: _____inches

Where is the Silt Fence Located?	Is the Bottom of the Fabric Still Buried?	Is the Fabric Torn or Sagging?	Are the Posts Tipping Over?	How Deep is the Sediment?

MAINTENANCE REQUIRED FOR SILT FENCE:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

Project Name: AAA FM 3405

SWPPP Contact:

BEST MANAGEMENT PRACTICE INSPECTION AND MAINTENANCE REPORT FORM

STABILIZED CONSTRUCTION ENTRANCE

Name of Inspector: _____ Days Since Last Rainfall: _____

Inspection Date: Amount of Last Rainfall: ____inches

Location	Is Sediment Being Tracked onto Road?	Is the Entry Surface Clean or Sediment Filled?	Does All Traffic Use the Entrance?

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCES:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

Project Name: AAA FM 3405

SWPPP Contact:

BEST MANAGEMENT PRACTICE INSPECTION AND MAINTENANCE REPORT FORM

(Completed weekly or as soon as possible after a significant storm event)

Name of Inspector:	
Days Since Last Rainfall:	
Amount of Last Rainfall:	

STABILIZATION MEASURES								
Area or Drainage Areas*	Date Since Last Disturbance	Date of Next Disturbance	Stabilized (Yes or No)	Control Measures Implemented	Current Conditions of Control Measures			

* See site map for drainage areas. Site may include borrow sources, haul roads, contractor's yard, stockpiles, etc. ** Areas that will be exposed more than 21 days must be stabilized within 14 days

STABILIZATION REQUIRED:

TO BE PERFORMED BY:_____ON OR BEFORE: _____

_

Inspection Date: _____

Control Measure Codes			Condition Codes
1. Temporary Seeding	14.	Rock Bed at Construction Exit	U – Upgrade Needed
2. Permanent Plant, Sod, or Seed	15.	Timber Mat at Construction Entrance	R – Replacement Needed
3. Mulch	16.	Channel Liner	M – Maintenance Needed
Soil Retention Blanket	17.	Sediment Trap	C – Cleaning Needed
5. Buffer Zone	18.	Sediment Basin	I – Increase Measures
Preserve Natural Resources		Storm Inlet Sediment Trap	S – Stable (no action required)
7. Silt Fence	20.	Stone Outlet Structure	
8. Hay Bales	21.	Curb and Gutter	
9. Rock Berm	22.	Storm Sewers	
10. Diversion Dike		Velocity Control Devices	
11. Diversion Swale	24.	Excess Dirt Removed From Road	
12. Pipe Slope Drain	25.	Haul Roads Dampened for Dust	
13. Paved Flume	26.	Cleanup of Possible Contaminants	

Project Name: AAA FM 3405

SWPPP Contact:

BEST MANAGEMENT PRACTICE INSPECTION AND MAINTENANCE REPORT FORM

CONSTRUCTION ACTIVITIES LOG

Name of Inspector	Date	Major Grading Activities	Temporary Suspension of Construction Activities	Permanent Suspension of Construction Activities	Initiation of Stabilization Measures	Comments

Date	Additional Changes

Corrective Action Log

Project Name: AAA FM 3405

SWPPP Contact:

Date Action Taken/Responsible person					
Corrective Action Needed (including planned date/responsible person)					
Description of BMP Deficiency					
Inspector Name(s)					
Inspection Inspector Date Name(s)					

TCEQ Office Use Only Permit No: CN: RN:



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?	🖾 No					
If Yes, provide the authorization number here: TXR15	text.					
NOTE: If an authorization number is not provided, a new number will be	assigned					
The first of the second se	ussigneu					
SECTION 1. OPERATOR (APPLICANT)						
a) If the applicant is currently a customer with TCEQ, what is the Custom	ner Number					
(CN) issued to this entity? CN						

(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.)

A-A-A Storage Circle Dr, LLC

c) What is the contact information for the Operator (Responsible Authority)?

	Prefix (Mr. Ms. Miss): <u>Mr.</u>	
	First and Last Name: John Muhich Suffix:	Click here to enter text.
	Title: <u>President</u> Credentials:	ntertext
	Phone Number: (512) 657-6789 Fax Number	er: Click here to enter text.
	E-mail: <u>storserv@austin.rr.com</u>	
	Mailing Address: <u>4203 Spinnaker Cove</u>	
	City, State, and Zip Code: Austin, Texas 78	731
	Mailing Information if outside USA:	
	Territory:	
	Country Code: Pos	stal Code:
d)	Indicate the type of customer:	
	🗆 Individual	Federal Government
	Limited Partnership	County Government
	🖾 General Partnership	🗆 State Government
	🗆 Trust	City Government
	□ Sole Proprietorship (D.B.A.)	Other Government
	□ Corporation	□ Other: Click here to enter to
	□ Estate	
e)	Is the applicant an independent operator	? ⊠ Yes □ No

(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

□ 251-500

□ 21-100

□ 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: <u>83-0896097</u>

Texas Secretary of State Charter (filing) Number: <u>803043683</u>

DUNS Number (if known):

SECTION 2. APPLICATION CONTACT

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

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

Prefix (Mr. Ms. Miss):	e to enter text.	
First and Last Name:	Suffix:	
Title:	Credential:	
Organization Name:	to enter text	
Phone Number:	Fax Number:	
E-mail: link here to enter tex		
Mailing Address:	enter text.	
Internal Routing (Mail Code, Etc.):		
City, State, and Zip Code:		
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

(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>AAA Storage Circle Drive</u>
- c) In your own words, briefly describe the type of construction occurring at the regulated site (residential, industrial, commercial, or other): <u>The addition of a mixed use facility consisting of self-storage buildings, an office and residence for an onsite manager, warehouses, associated parking and utilities, as well as the storm & water quality facilities.</u>
- d) County or Counties (if located in more than one): <u>Travis</u>
- e) Latitude: <u>30.24222 N</u> Longitude: <u>97.93819 W</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: 10505 Circle Drive

City, State, and Zip Code: Austin, Texas 78736

Section B:

Location Description:

City (or city nearest to) where the site is located:

Zip Code where the site is located:

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>4225</u>
- d) What is the Secondary SIC Code(s), if applicable? <u>1521</u>
- e) What is the total number of acres to be disturbed? 9.7

TCEQ-20022 (3/6/2018)

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? $\underline{04/02/2020}$
- h) What is the estimated end date of the project? <u>10/05/2021</u>
- 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>Slaughter Creek</u>
- k) What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach? <u>1427A</u>
- 1) Is the discharge into a Municipal Separate Storm Sewer System (MS4)?

🗆 Yes 🛛 🖾 No

If Yes, provide the name of the MS4 operator:

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:

Operator Signatory Title:

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:
	2 att.

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?
- □ 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

 \Box County

□ Latitude and longitude <u>http://www.tceq.texas.gov/gis/sqmaview.html</u>

□ 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. www.osha.gov/oshstats/sicser.html
- Estimated starting and ending dates of the project.
- □ Confirmation of concrete truck washout.
- □ Acres disturbed is provided and qualifies for coverage through a NOI.
- □ Common plan of development or sale.
- □ Receiving water body or water bodies.
- □ Segment number or numbers.
- \square MS4 operator.
- \Box 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.

Partnership

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'.

Other

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

TCEQ 20022 (3/6/2018)

Instructions for Notice of Intent for TPDES General Permit TXR150000

• 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: <u>www.tceq.texas.gov/goto/construction</u> 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:

Project/Site (RE) Physical Address:

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

Agent Authorization Form For Required Signature

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

I	John Muhich						
	Print Name						
	Manager						
	Title - Owner/President/Other						
of	JMA Entity, LLC Corporation/Partnership/Entity Name						
have authorized	Robert (Ric) Thompson, P.E. Print Name of Agent/Engineer						
of	Thompson Land Engineering, LLC Print Name of Firm						

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

I also understand that:

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

SIGNATURE PAGE:

12/5/2022 Applicant's Signature Date THE STATE OF County of _ BEFORE ME, the undersigned authority, on this day personally appeared <u>here</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 dav инини M LOW КАРУ РОВСС С РУ РОВСС С РОВСС С РУ РОВСС С РУ РОВСС С РУ РОВСС С РОВСС NOTA Typed or Printed Name of Notary MY COMMISSION EXPIRE

Page 2 of 2

Application Fee Form

Texas Commission on Environmental QualityName of Proposed Regulated Entity: AAA FM 3405Regulated Entity Location: 4651 FM 3405, Georgetown, Texas 78633Name of Customer: JMA Entity, LLCContact Person: John MuhichPhone: (512) 657-6789Customer Reference Number (if issued):CN 606122752Regulated Entity Reference Number (if issued):RN 111705539Austin Regional Office (3373)									
_			:!!:						
Hays San Antonio Regional Office (336	Travis 2)		illiamson						
Bexar Comal	Medina Kinney	U\	valde						
Application fees must be paid by o Commission on Environmental Qu form must be submitted with you	check, certified check, c uality. Your canceled c	heck will serve as you	r receipt. This						
🖂 Austin Regional Office	S	an Antonio Regional C	Office						
Mailed to: TCEQ - Cashier		overnight Delivery to: ⁻	TCEQ - Cashier						
Revenues Section	1	2100 Park 35 Circle							
Mail Code 214	В	uilding A, 3rd Floor							
P.O. Box 13088		ustin, TX 78753							
Austin, TX 78711-3088		512)239-0357							
Site Location (Check All That App									
Recharge Zone	Contributing Zone	Transi	ition Zone						
Type of Pla	n	Size	Fee Due						
Water Pollution Abatement Plan,	Contributing Zone								
Plan: One Single Family Residentia	l Dwelling	Acres	\$						
Water Pollution Abatement Plan,	Contributing Zone								
Plan: Multiple Single Family Reside	ential and Parks	Acres	\$						
Water Pollution Abatement Plan,	Contributing Zone								
Plan: Non-residential		22.94 Acres	\$ 6 <i>,</i> 500						
Sewage Collection System		L.F.	\$						
Lift Stations without sewer lines	Acres	\$							
Underground or Aboveground Sto	Tanks	\$							
Piping System(s)(only)	Each	\$							
Exception		Each	\$						
Extension of Time		Each	\$						
P1 - Cthan	~~~~								

Signature: Date: 10/01/2024

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



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)							
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)							
Renewal (Core Data Form should be submitted with the renewal form) Other Modification of a Previously Approved CZP							
2. Customer Reference Number (if issued)	3. Regulated Entity Reference Number (if issued)						
CN 606122752	RN 111705539						

SECTION II: Customer Information

4. General Customer Information 5. Effective Date for Customer Information Updat								es (mm/dd/	уууу)		12/1/2022		
New Customer Update to Customer Information Change in Regulated Entity Ownership Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)													
The Custome	r Name su	ıbmitte	d here may b	be updated	automatical	ly base	ed or	n what is cu	urrent	and active	with th	ne Texas Secr	etary of State
(SOS) or Texa	s Comptro	oller of I	Public Accou	nts (CPA).									
6. Customer	Legal Nam	e (If an i	individual, prii	nt last name f	irst: eg: Doe, J	lohn)			<u>If nev</u>	v Customer, o	enter pre	evious Custome	er below:
JMA Entity, LLC	:												
7. TX SOS/CP	A Filing N	umber		8. TX State	e Tax ID (11 d	igits)			9. Fe	deral Tax II	D	10. DUNS N	Number (if
									(9 dig	its)		applicable)	
									85-42	69080			
11. Type of C	ustomer:		Corporat	tion				🗌 Individ	dual Partne		ership: 🗌 General 🔀 Limited		
Government:	City 🗌 🕻	County [] Federal 🗌	Local 🗌 Stat	e 🗌 Other			Sole Pr	roprieto	orship	🗌 Otl	her:	
12. Number o	of Employ	ees							13. lı	ndepender	ntly Ow	ned and Ope	erated?
⊠ 0-20 □ 2	21-100] 101-2	50 🗌 251-	500 🗌 502	L and higher				🛛 Ye	es [□ No		
14. Customer	r Role (Pro	posed or	Actual) – as it	t relates to the	e Regulated Er	ntity list	ed o	n this form. I	Please o	check one of	the follo	owing	
Owner	al Licensee	·	erator esponsible Par		wner & Opera VCP/BSA App					Other:			
15. Mailing	4203 Spir	nnaker Co	ove										
Address:													
Address.	City	Austin			State	TX		ZIP	78731 ZIP + 4		ZIP + 4		
16. Country M	Mailing Inf	formatio	on (if outside	USA)	1		17. E-Mail Address (if applicable)						
							johnsmuhich@gmail.com						
18. Telephone Number 19. Extension of						on or C	Code 20. Fax Number (if applicable)						

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)								
New Regulated Entity Update to Regulated Entity Name 🛛 Update to Regulated Entity Information								
The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).								
22. Regulated Entity Nan	ne (Enter name	of the site where th	ne regulated acti	ion is taking _l	olace.)			
AAA FM 3405								
23. Street Address of	4651 FM 340	4651 FM 3405						
the Regulated Entity:								
<u>(No PO Boxes)</u>	City	Georgetown	State	ТХ	ZIP	78736	ZIP + 4	
24. County	Williamson							
	If no Street Address is provided, fields 25-28 are required.							
25. Description to	In addition to	the 16.90-acre priv	ate property, th	ere is approx	imately 6.04-	acres of public right	t-of-wav area in front of	this property

Physical Location:	(that also ex	tends past both th	ne east and west side	s of the prop	erty) for the TXDC)T roadwork being i	ncluded wit	th this project.		
26. Nearest City	•				Sta	te	Nea	arest ZIP Code		
Latitude/Longitude are r used to supply coordinat	-	-	-		ata Standards.	(Geocoding of th	e Physical	Address may be		
27. Latitude (N) In Decim	al:	30.70278		28. L	ongitude (W) In	Decimal:	97.83222	2		
Degrees	Minutes	5	Seconds	Degre	es	Minutes		Seconds		
30		42	10		97	49		56		
29. Primary SIC Code	30.	Secondary SIC C	Code	31. Primary NAICS Code			32. Secondary NAICS Code			
(4 digits)	(4 d	igits)	(5 or 6 digits)			(5 or 6 dig	its)			
4225	152	1		531130	236115	236115				
33. What is the Primary I	Business of t	his entity? (Do	not repeat the SIC or	NAICS descr	iption.)					
storage, warehouse, office &	residences									
34. Mailing Address:										
Address.	City		State		ZIP		ZIP + 4			
35. E-Mail Address:										
36. Telephone Number			37. Extension or Code 38.			38. Fax Number (if applicable)				
() -					()	-				

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

Dam Safety	Districts	Edwards Aquifer	Emissions Inventory Air	Industrial Hazardous Waste
		11003541		
Municipal Solid Waste	New Source Review Air	☐ OSSF	Petroleum Storage Tank	D PWS
Sludge	Storm Water	🗌 Title V Air	Tires	Used Oil
Voluntary Cleanup	U Wastewater	Wastewater Agriculture	Water Rights	Other:

SECTION IV: Preparer Information

40. Name:	Mark Roeder			41. Title:	Graduate Engineer
42. Telephone Number		43. Ext./Code 44. Fax Number		45. E-Mail A	Address
(512) 328-0002			(512) 328-1112	mark@tleng.	net

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.

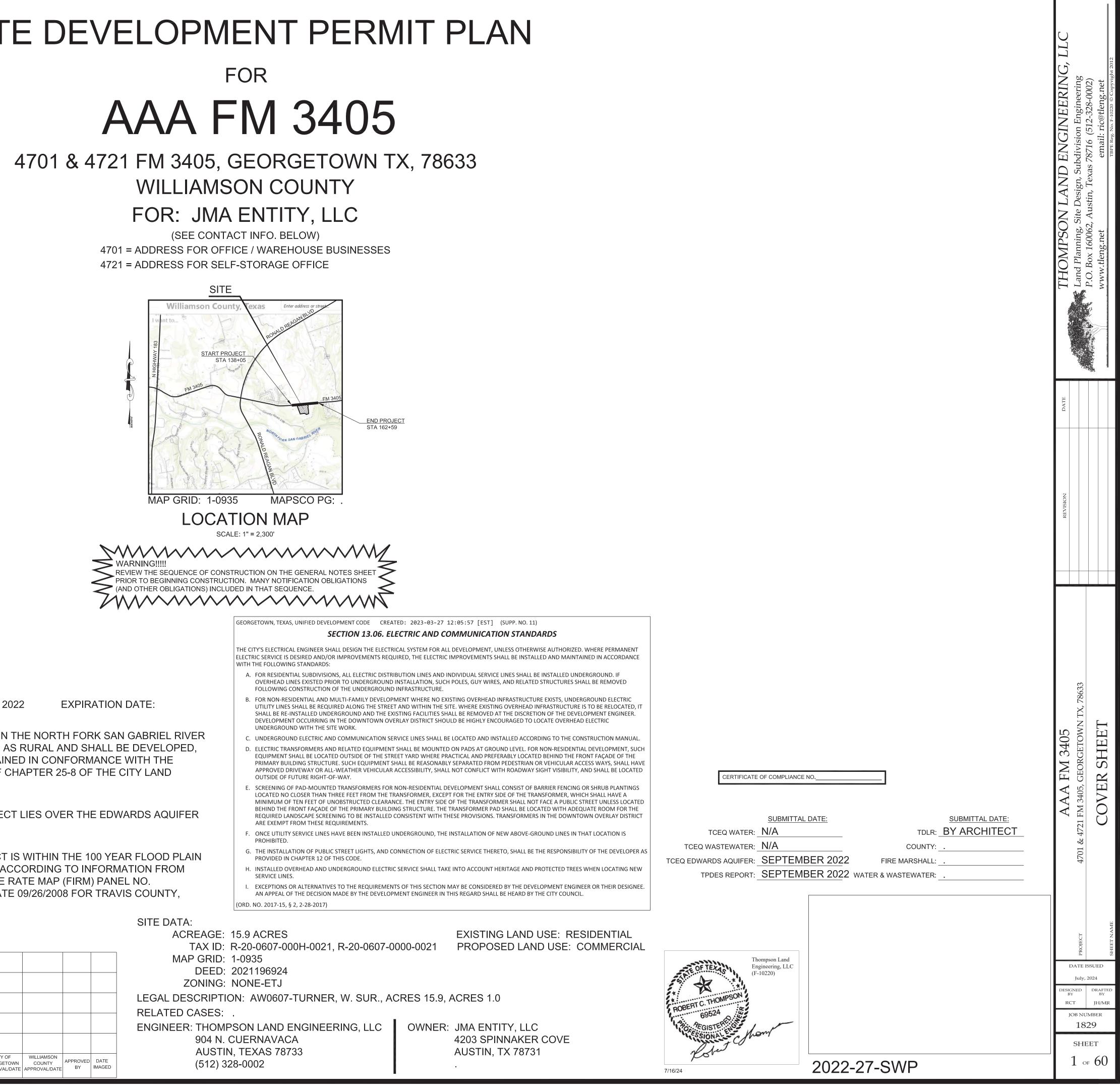
Company:	A-A-A Storage Circle Dr, LLC	Job Title:	President		
Name (In Print):	John Muhich			Phone:	(512) 657- 6789
Signature:	Sola Tunk			Date:	09/04/2024
	1				

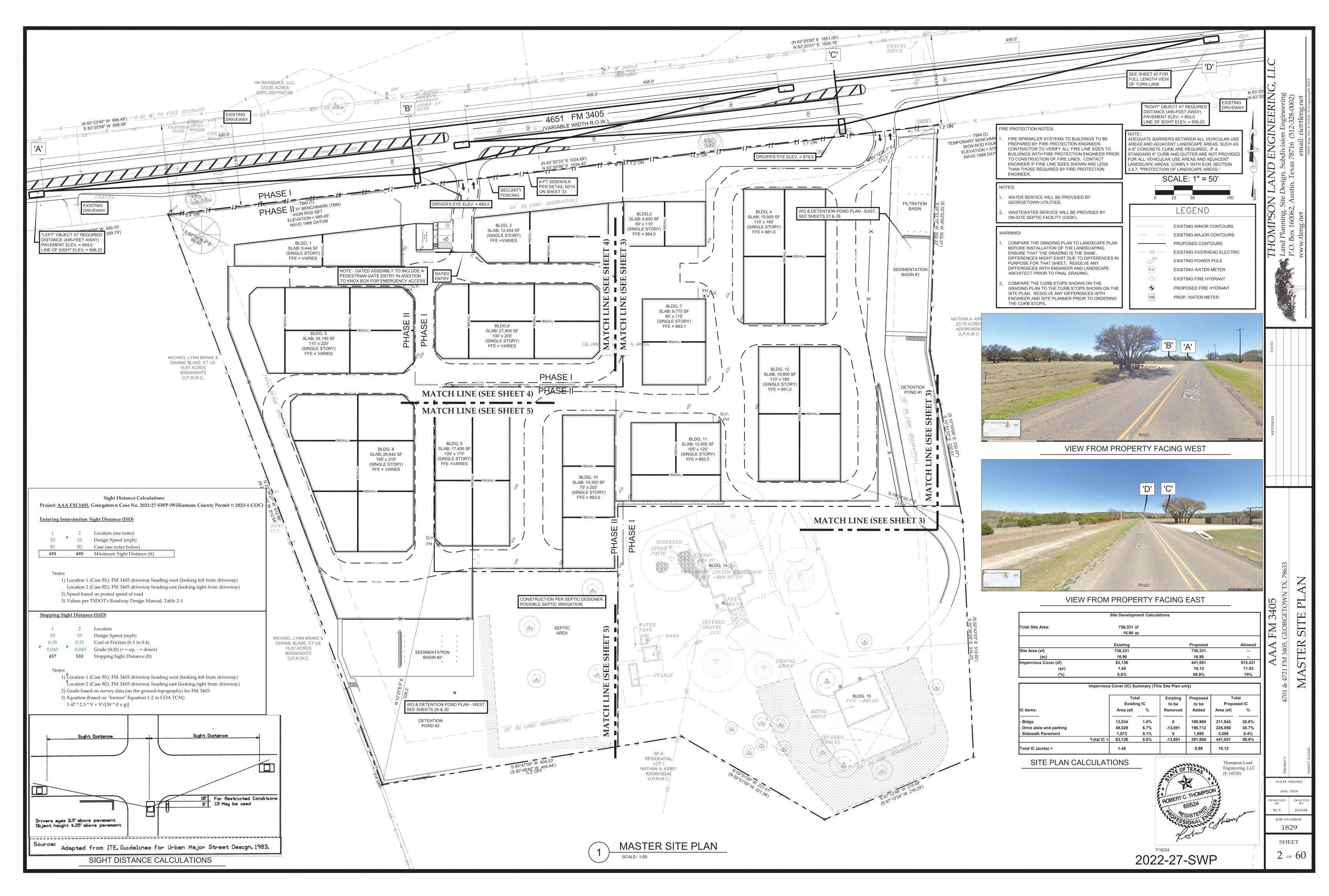
		SHEET INDEX							
-	1	COVER SHEET					C	ITC	
	2	MASTER SITE PLAN					3	110	
	3	SITE DIMENSIONAL CONTROL PLAN (1 OF 3)							
	4	SITE DIMENSIONAL CONTROL PLAN (2 OF 3)							
	5	SITE DIMENSIONAL CONTROL PLAN (3 OF 3)							
	6	MASTER GRADING & DRAINAGE PLAN							
	7	GRADING & DRAINAGE PLAN (1 OF 3)							
	8	GRADING & DRAINAGE PLAN (2 OF 3)							
	9	GRADING & DRAINAGE PLAN (3 OF 3)							1
	-10-	MASTER WATER & WASTEWATER PLAN						2	ł
	-11-	WATER & WASTEWATER PLAN (1 OF 3)							
	-12 -	WATER & WASTEWATER PLAN (2 OF 3)							
	-13-	WATER & WASTEWATER PLAN (3 OF 3)							
	14	EMERGENCY ACCESS PLAN							
	-15-	EMERGENCY FIRE PROTECTION PLAN							
	16	SURVEY							
	17	GENERAL NOTES							
	-18	UTILITY COLLECTION DATA							
	19	MASTER ESC & SITE PREP PLAN							
	20	ESC & SITE PREP PLAN - EXISTING (1 OF 3)							
	21	ESC & SITE PREP PLAN - EXISTING (2 OF 3)							
	22	ESC & SITE PREP PLAN - EXISTING (3 OF 3)							
	23	ESC & SITE PREP PLAN - PROPOSED (1 OF 3)							
	24	ESC & SITE PREP PLAN - PROPOSED (2 OF 3)							
	25	ESC & SITE PREP PLAN - PROPOSED (3 OF 3)							
	26	EROSION SEDIMENTATION CONTROL DETAILS							
	27	WQ & DETENTION POND PLAN - EAST							
	28	WQ & DETENTION POND SECTIONS - EAST							
	29	WQ & DETENTION POND PLAN - WEST							
	30	WQ & DETENTION POND SECTIONS - WEST							
	31	WQ & DETENTION POND DETAILS							
	32	SITE PLAN DETAILS							
	33	GRADING AND DRAINAGE DETAILS							
	-34-	WATER & WASTEWATER DETAILS							
	35	DRAINAGE AREA MAP - EXISTING							
	36	DRAINAGE AREA MAP - PROPOSED							
	37	DRAINAGE REPORT & HYDRAULIC CALCULATIO	NS						
	38	CALCULATIONS & NOTES							
	39	WALL DETAILS							
	40	TxDOT GENERAL NOTES							
	-41-	TXDOT QUANTITY SUMMARY SHEET							
	42	FM 3405 TURN LANE (1 OF 2)							
	43	FM 3405 TURN LANE (2 OF 2)							
	44	EXISTING & PROPOSED TYPICAL SECTIONS							
	45	FM 3405 TURN LANE CROSS SECTIONS (1 OF 3)							0
	46	FM 3405 TURN LANE CROSS SECTIONS (2 OF 3)	50	DIVITIF		E. NOV	EIVIDER	8 22, 2022	2
			WA	TERS					
	47	FM 3405 TURN LANE CROSS SECTIONS (3 OF 3)							
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	-50-	TXDOT BC STANDARD SHEETS (3 OF 3)				IENT C			
	-51-	TXDOT TCP STANDARD DETAIL	FD	WARDS		FR			
	-52-	TXDOT TCP PHASING PLAN					THIS PF	ROJECT	L
	-53 -	TxDOT WZ STANDARD SHEETS				E ZONE			_
	-54-	TXDOT ROADWAY DETAIL STANDARD	FL	DOD PL)TE.			
	-55 -	TxDOT PM SHEETS					IIS PRC	JECT IS	١
	56	TxDOT SW3P STANDARD SHEETS		ANE	IS LO	CATED	IN ZON	E X ACC	C
	57	TXDOT EPIC SHEET						ANCE RA	
	58	TXDOT EC STANDARD SHEETS (1 OF 3)				5E, EFF	ECTIVE	E DATE ()(
	59	TXDOT EC STANDARD SHEETS (1 OF 3) TXDOT EC STANDARD SHEETS (2 OF 3)		TEX	AS.				
D.C. 4	60	TXDOT EC STANDARD SHEETS (3 OF 3)							
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NO.		DESCRIPTION		ADD (A) VOID (V) SHEET NO's	SHEETS IN PLAN SET	IMP. COVER (SQ. FT.)	IMP. COVER (SQ. FT.)/ (%)	GEORGETOWN APPROVAL/DATE	
1							• •		Ż

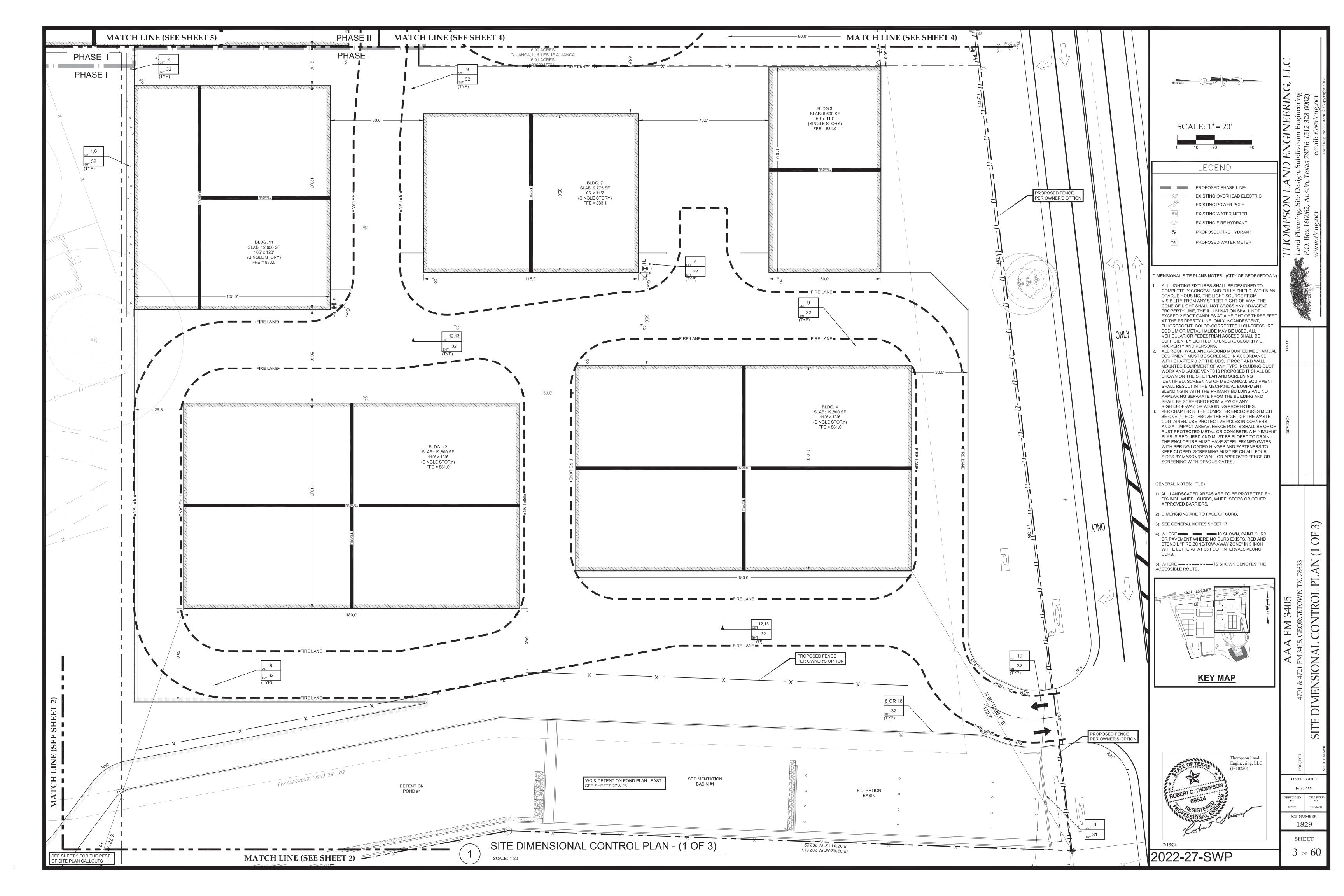
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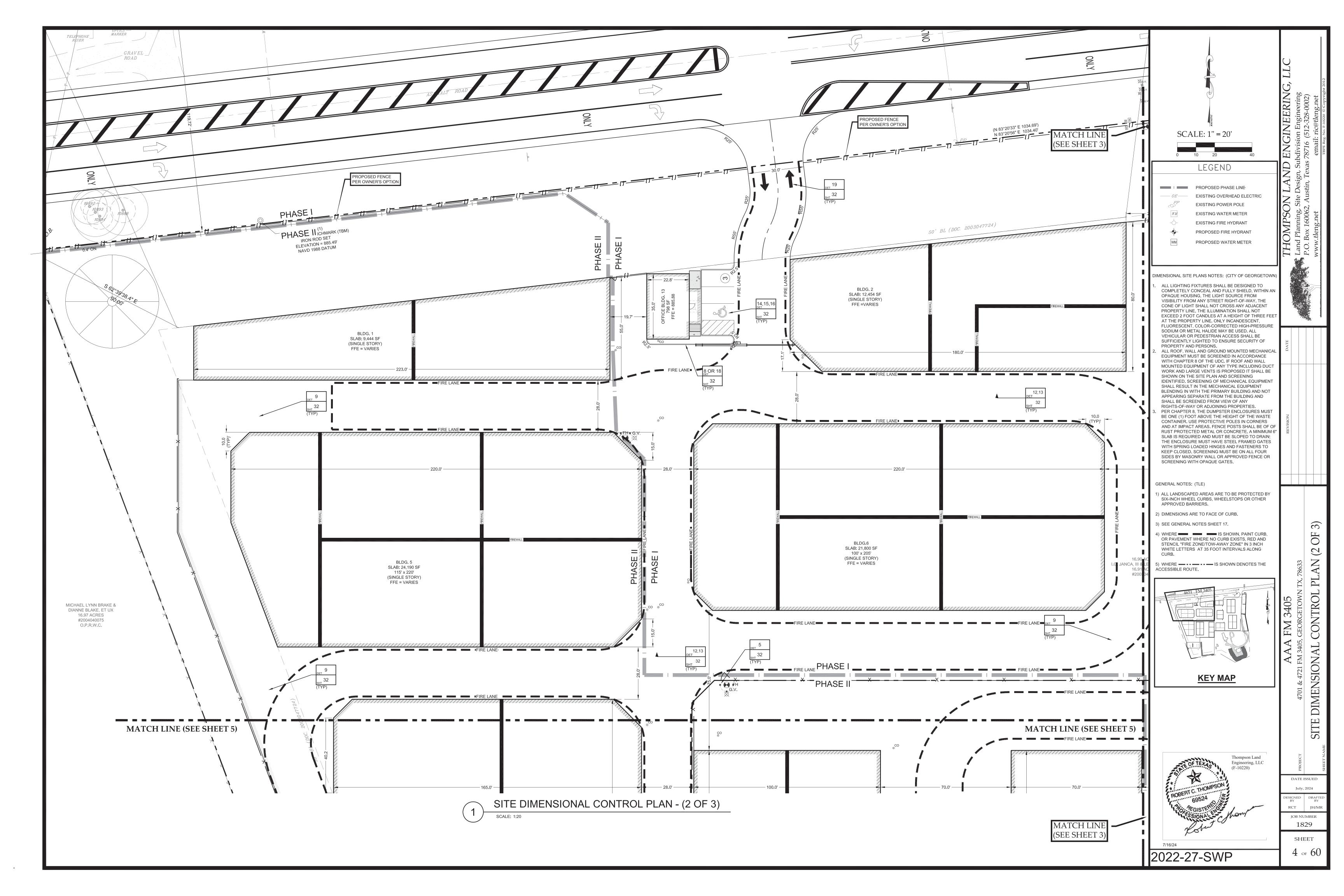
4701 & 4721 FM 3405, GEORGETOWN TX, 78633 WILLIAMSON COUNTY

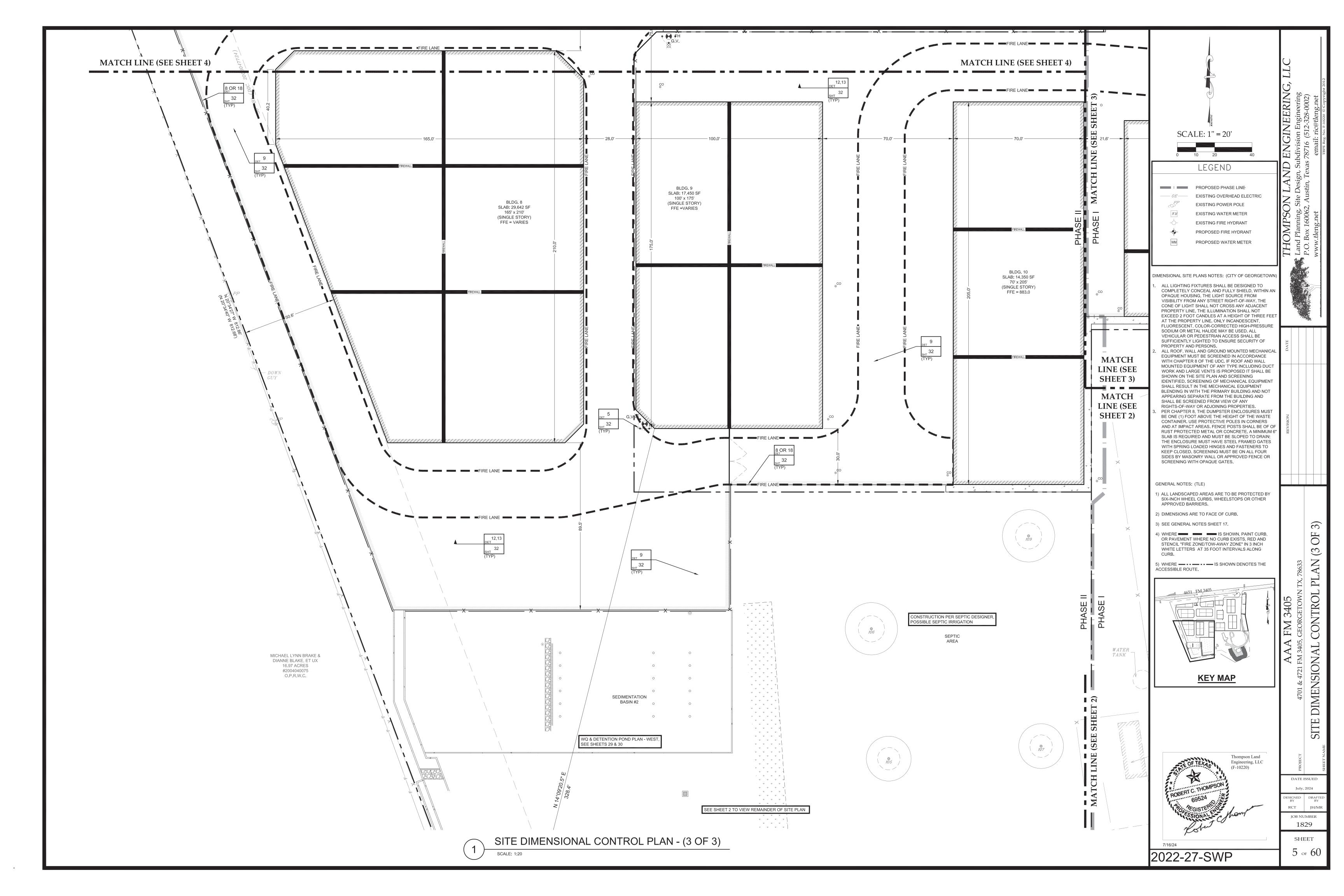
WILLIAMSON



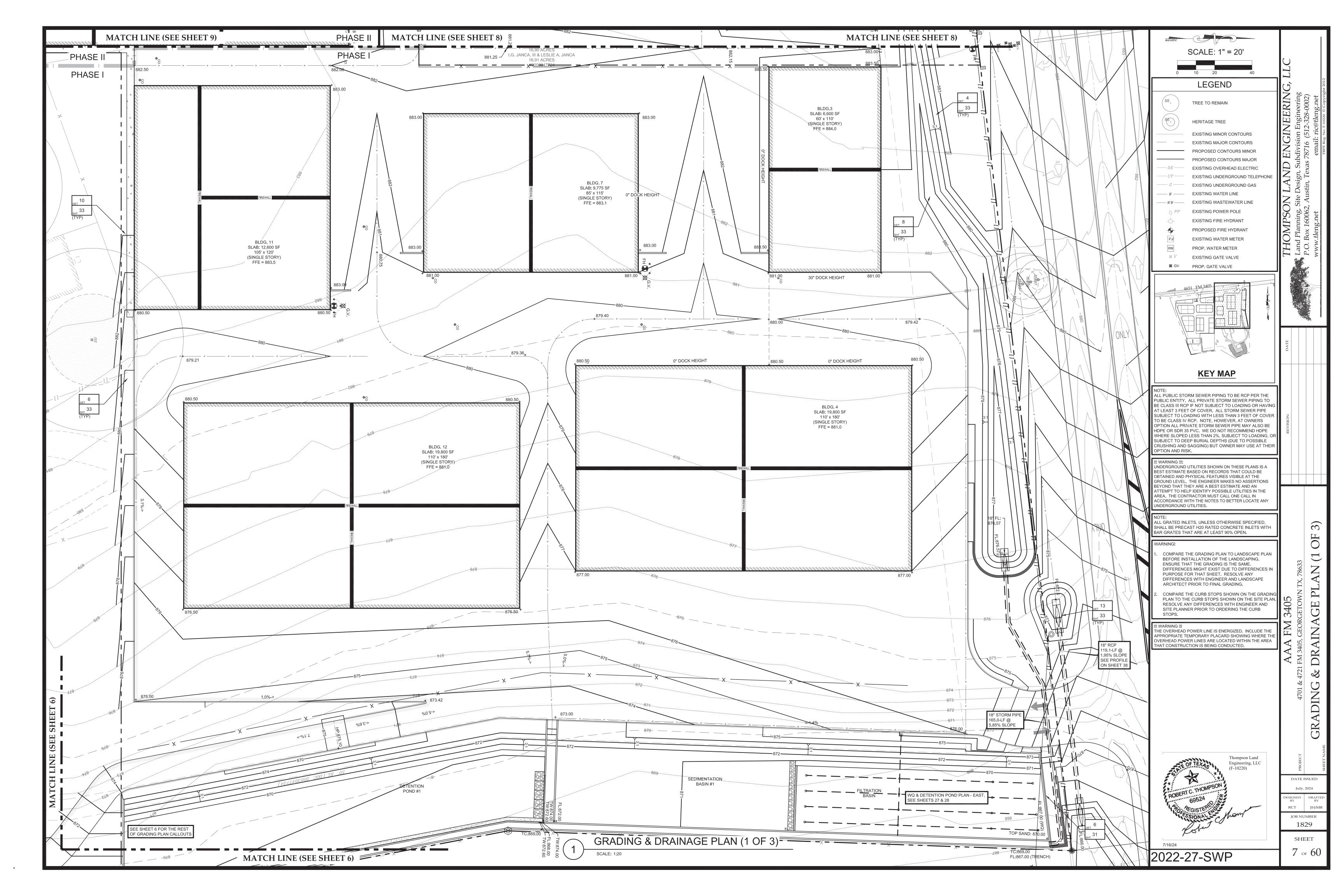


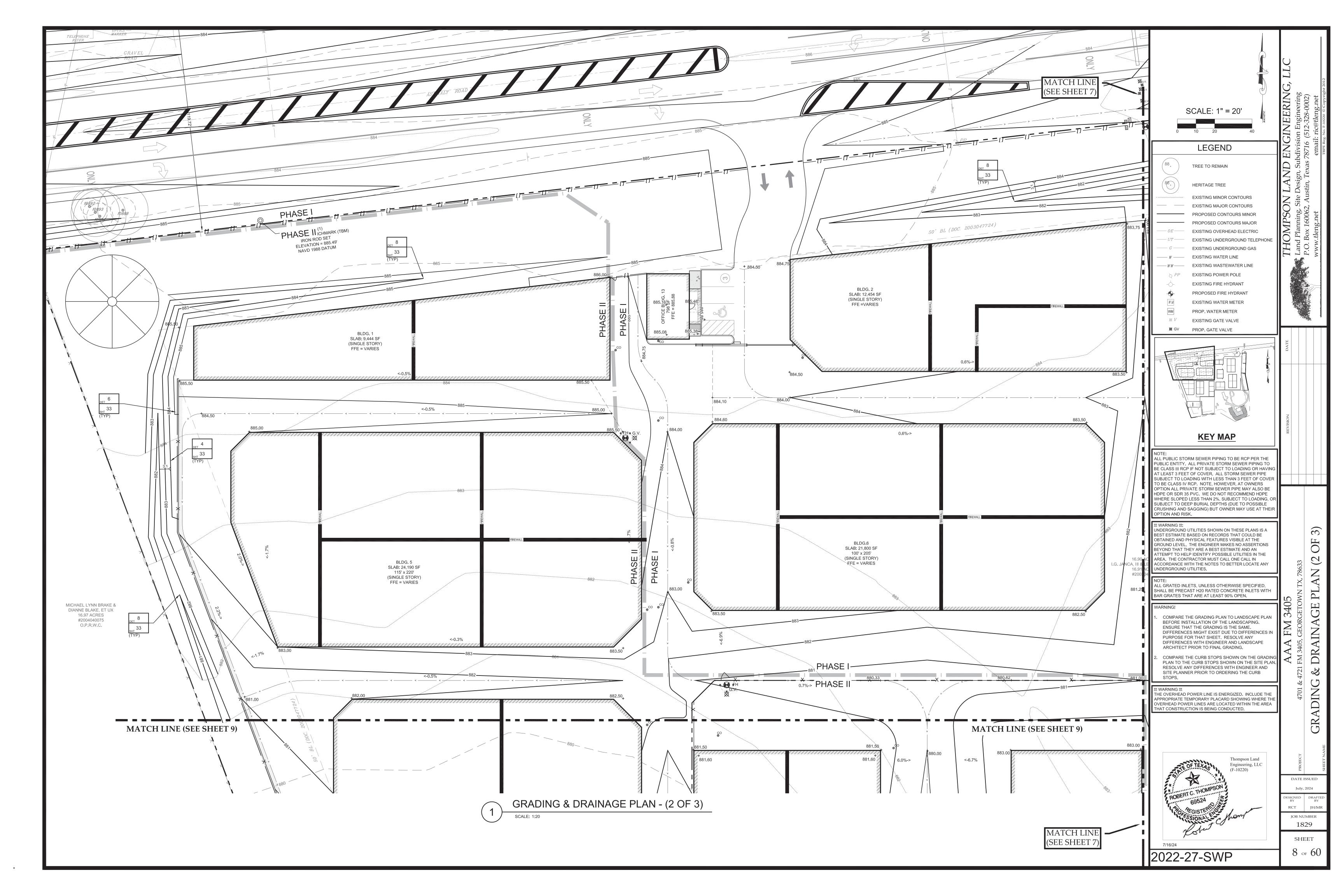


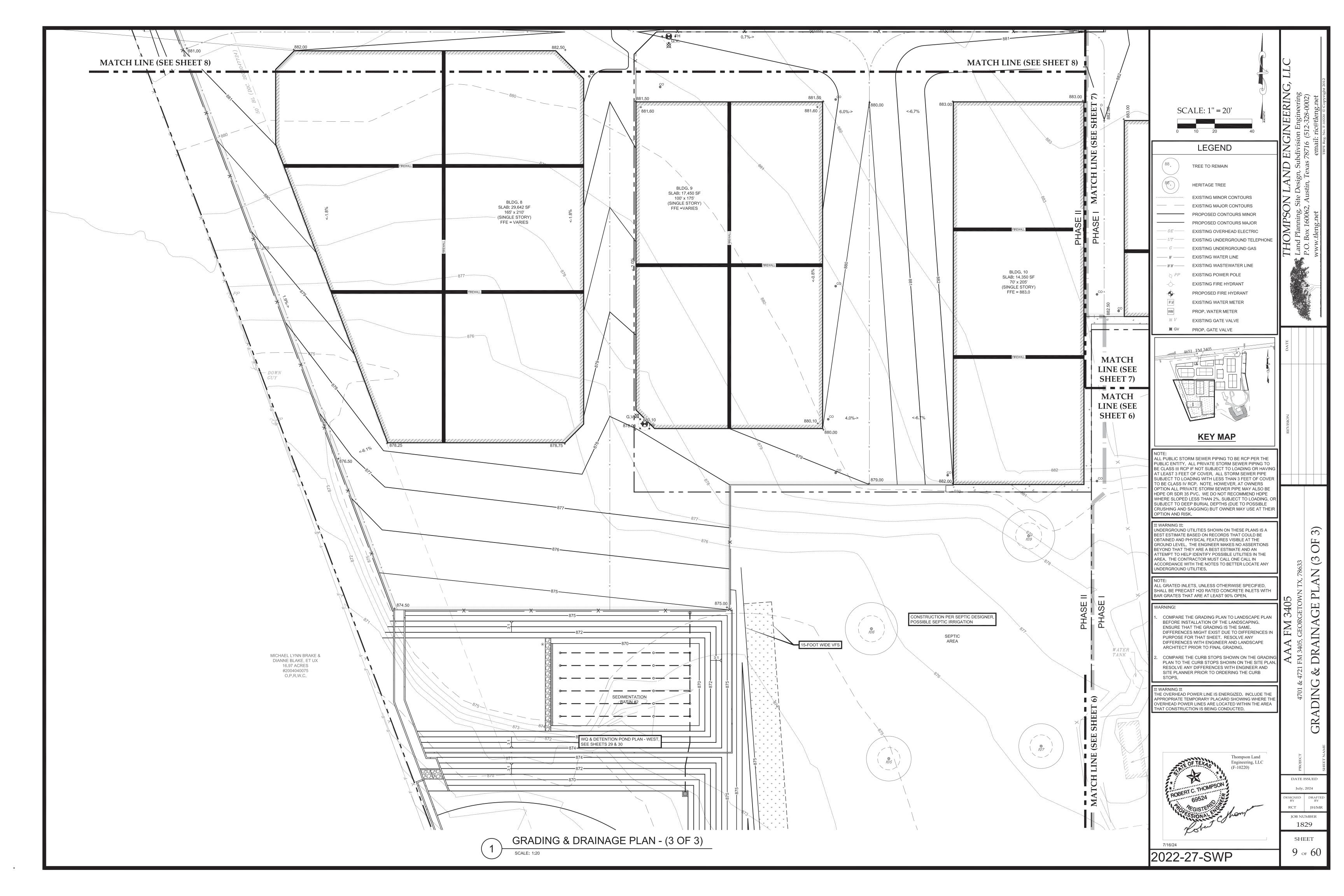


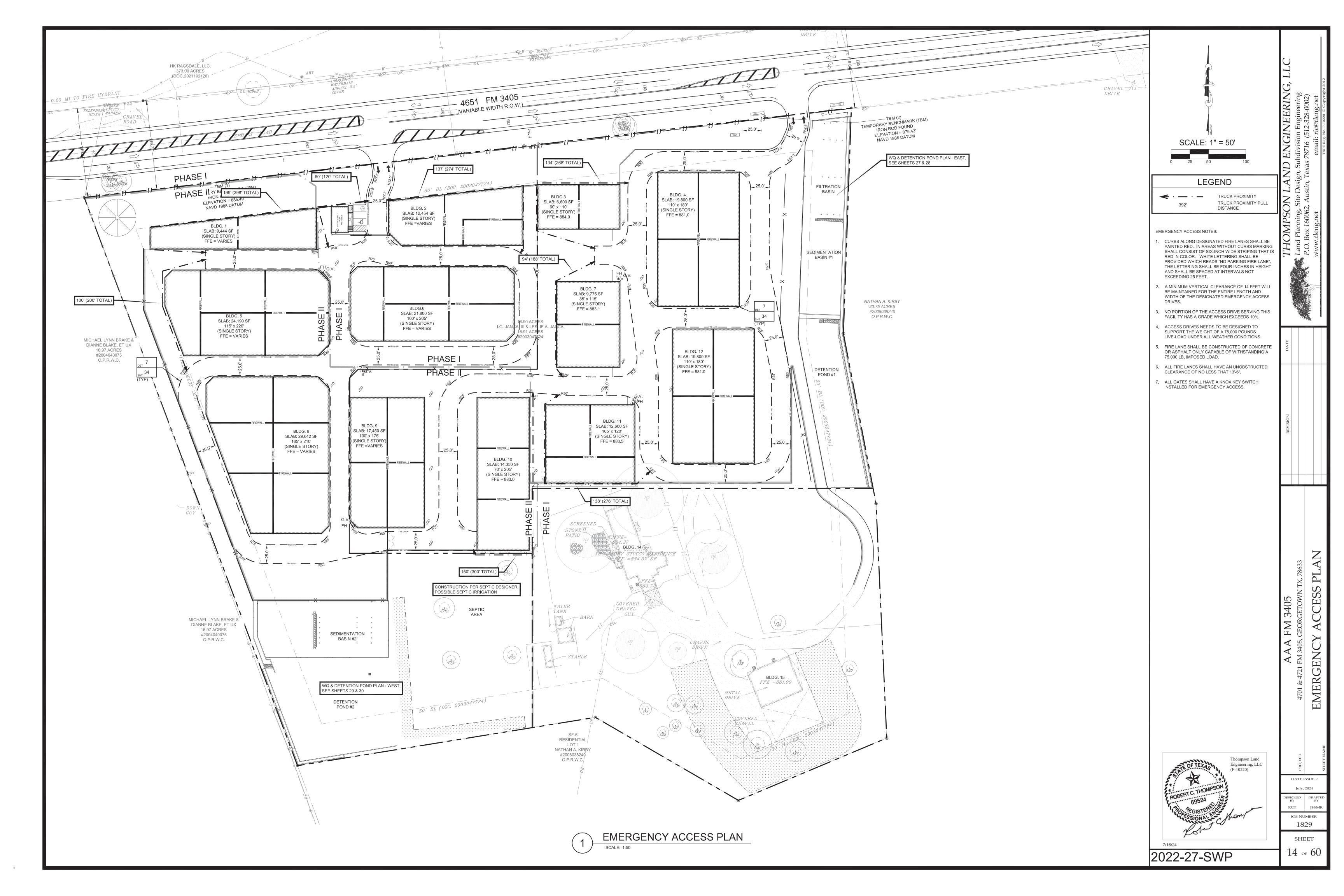


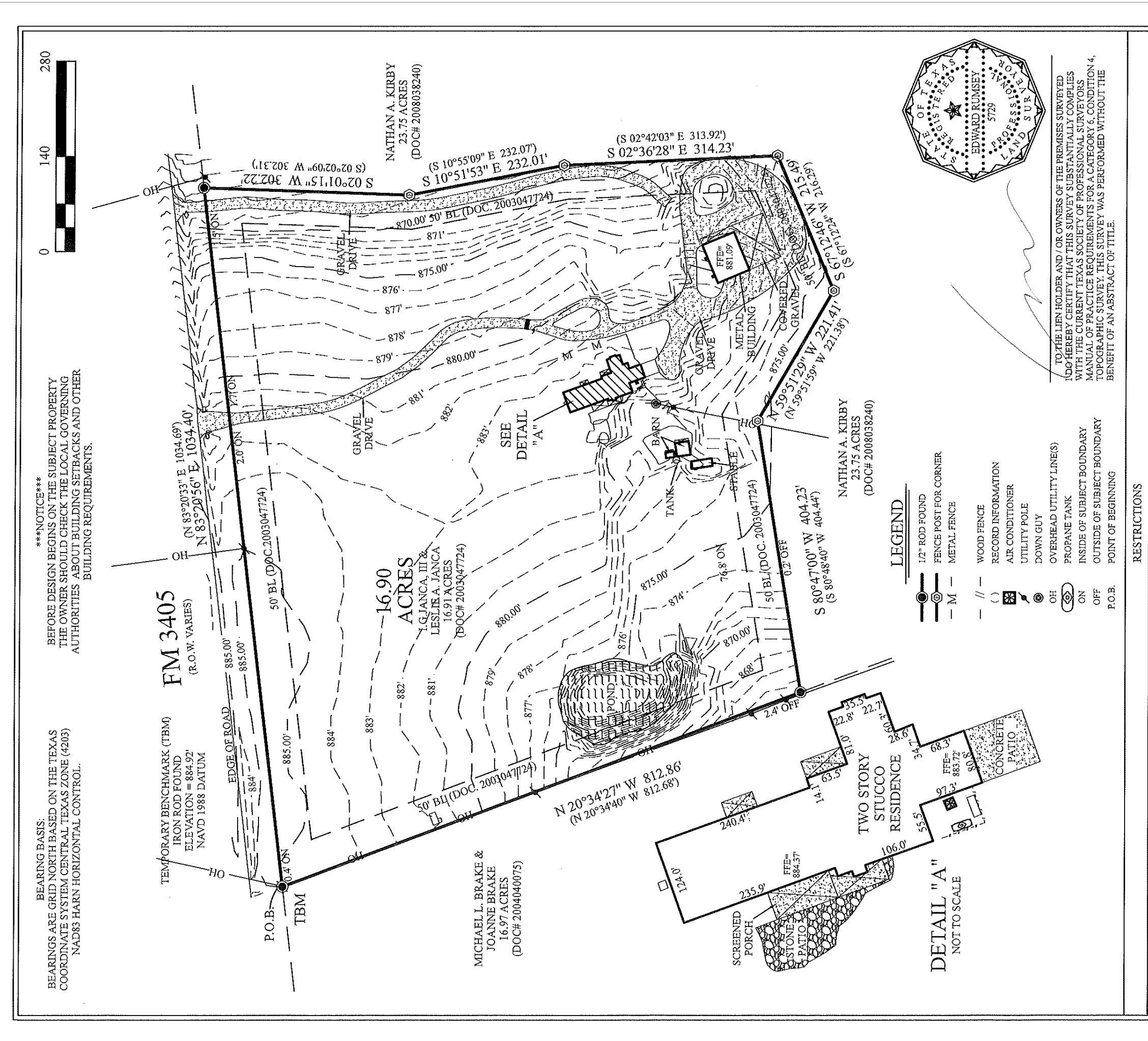












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PARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND THIS SURVEYOR DID NOT RESEARCH THE DEED RECORDS FOR PREVIOUS CONFLICTS IN /OR BOUNDARY LINE AGREEMENTS, THEREFORE, CERTAIN EASEMENTS MAY HAVE BEEN GRANTED WHICH ARE NOT REFLECTED HEREON. ONLY THOSE ENTS, BOUNDARY LINES AND INTERESTS WHICH ARE REPRESENTED ON THE PARENT SUBDIVISION PLAT, WHICH IS REFERENCED HEREON, ARE PLOTTED DOUMENTS OTHER THAN THOSE CITED ON THIS SURVEY HAVE BEEN EXAMINED. DOUMENTS OTHER THAN THOSE CITED ON THIS SURVEY HAVE BEEN EXAMINED. LEGAL DESCRIPTION	AND, OUT OF THE WINSLOW TURNER SURVEY, ABSTRACT NUMBER 607, WILLIAMSON COUNTY, TEXAS, SAME BEING ALL OF THAT CERTAIN I.G. JANCA III 91 ACRE TRACT, RECORDED IN DOCUMENT NUMBER 2003047724, OFFICIAL PUBLIC RECORDS, WILLIAMSON COUNTY, TEXAS, SAID 16.90 ACRES OF LAND TO 0 DESCRIBED BY METES AND BOUNDS IN EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF. 1 F.I.R.M. MAP INFORMATION 1 F.I.R.M. MAP INFORMATION 2 DESCRIBED BY DESCRIPTING THE DATION 1 F.I.R.M. MAP INFORMATION 1 TO 1 THEREOF.	I.G. JANCA, III and LESLIE A. JANCA 4651 FM 3405 GEORGETOWN, WILLIAMSON COUNTY, TEXAS	FIELDED BY:JACOB STINE01/14/2022CALC. BY:CHRIS ZOTTER01/17/2022DRAWN BY:DAMIAN SMITH01/17/2022UPDATE BY:RPLS CHECK:EDWARD RUMSEY01/21/2022	THOMPSON LAND ENGINEERING, Land Planning, Site Design, Subdivision Engineering P.O. Box 160062, Austin, Texas 78716 (512-328-0002) www.tleng.net Engine Engine Engine Copyright 2012
NT AND THIS SURVEYOR DID NOT RESEARCH THE DE TAIN EASEMENTS MAY HAVE BEEN GRANTED WHICH REPRESENTED ON THE PARENT SUBDIVISION PLAT, W Y HAVE BEEN EXAMINED. LEGAL DESCRIPTION	BER 607, WILLIAMSON COUNTY, TEXAS, SAN I, OFFICIAL PUBLIC RECORDS, WILLIAMSON (D HERETO AND MADE A PART HEREOF. M	I.G. JANCA, LESLIE A. J. 4651 FM 3 GEORGETOWN, WILLIAM	SURVEY DATE: JANUARY 21, 2022 TITLE CO.: - G.F. NO.: - JOB NO.: A0100822	REVISION DATE
THEREFORE, CERTAIN EAS THEREFORE, CERTAIN EAS ESTS WHICH ARE REPRESE D ON THIS SURVEY HAVE B LEGAL D	t SURVEY, ABSTRACT NUMB MENT NUMBER 2003047724, 5 IN EXHIBIT "A" ATTACHED F.I.R.M. MAP INFORMATION	THIS PROPERTY DOES NOT LIE WITHIN THE 100 YEAR FLOOD - PLAIN, AND HAS A ZONE "X" RATING AS SHOWN ON THE FLOOD INSURANCE RATE MAPS F.I.R.M. MAP NO. 48491C0275E PANEL: 0275E DATED: 09/26/2008	THIS CERTIFICATION IS FOR INSURANCE PURPOSES ONLY AND IS NOT A GUARANTEE THAT THIS PROPERTY WILL OR WILL NOT FLOOD CONTACT YOUR LOCAL FLOOD PLAIN ADMINISTRATOR FOR THE CURRENT STATUS OF THIS TRACT.	, 78633
RED WITHOUT THE BENEFIT OF A T REDUNDARY LINE AGREEMENTS, IS, BOUNDARY LINES AND INTERI MENTS OTHER THAN THOSE CITE	D, OUT OF THE WINSLOW TURNER ACRE TRACT, RECORDED IN DOCU SCRIBED BY METES AND BOUNDS	ALANDERSON MILL RD AUSTIN, TEXAS 78729	(512) 249-8149 PHONE (512) 331-5217 FAX TBPELS FIRM NO. 10135000	AAA FM 3405 4701 & 4721 FM 3405, GEORGETOWN TX, 78633 SURVEY
RESTRICTIONS: THIS SURVEY WAS PREPAR TITLE, EASEMENTS AND/OR SETBACK LINES, EASEMENT ON THIS SURVEY, NO DOCUI	BEING 16.90 ACRES OF LANI AND LESLIE A. JANCA 16.91 A BE MORE PARTICULARLY DE N	NW NW NE $SCALE$ $I'' = 140'$	SW	LUHORA HORA DATE ISSUED July, 2024 DESIGNED BY RCT JOB NUMBER JOB NUMBER 1829 SHEET
		2022-2	7-SWP	16 of 60

Y OF GEORGETOWN GENERAL NOTES:

- THESE CONSTRUCTION PLANS WERE PREPARED, SEALED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS (A) REPORTABLE DISCHARGE OR SPILL. AND CODES
- THIS PROJECT IS SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY. THE SITE CONSTRUCTION PLANS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SITE PLAN.
- WASTEWATER MAINS AND SERVICE LINES SHALL BE SDR 26 PVC.
- WASTEWATER MAINS SHALL BE INSTALLED WITHOUT HORIZONTAL OR VERTICAL BENDS. MAXIMUM DISTANCE BETWEEN WASTEWATER MANHOLES IS 500 FEET.
- WASTEWATER MAINS SHALL BE LOW PRESSURE AIR TESTED AND MANDREL TESTED BY THE CONTRACTOR ACCORDING TO CITY OF GEORGETOWN AND TCEQ
- REQUIREMENTS. WASTEWATER MANHOLES SHALL BE VACUUM TESTED AND COATED BY THE CONTRACTOR ACCORDING TO CITY OF GEORGETOWN AND TCEQ REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY ONE OF THE FOLLOWING: WASTEWATER MAINS SHALL BE CAMERA TESTED BY THE CONTRACTOR AND SUBMITTED TO THE CITY ON DVD FORMAT PRIOR TO PAVING THE STREETS.
- PRIVATE WATER SYSTEM FIRE LINES SHALL BE TESTED BY THE CONTRACTOR TO 200 PSI FOR 2 HOURS.
- PRIVATE WATER SYSTEM FIRE LINES SHALL BE DUCTILE IRON PIPING FROM THE WATER MAIN TO THE BUILDING SPRINKLER SYSTEM, AND 200 PSI C900 PVC FOR ALL OTHERS. . PUBLIC WATER SYSTEM MAINS SHALL BE 150 PSI C900 PVC AND TESTED BY THE CONTRACTOR AT 150 PSI FOR 2 HOURS.
- . ALL BENDS AND CHANGES IN DIRECTION ON WATER MAINS SHALL BE RESTRAINED AND THRUST BLOCKED.
- 4. LONG FIRE HYDRANT LEADS SHALL BE RESTRAINED.
- 5. ALL WATER LINES ARE TO BE BACTERIA TESTED BY THE CONTRACTOR ACCORDING TO THE CITY STANDARDS AND SPECIFICATIONS. 6. WATER AND SEWER MAIN CROSSINGS SHALL MEET ALL REQUIREMENTS OF THE TCEQ AND THE CITY.
- 7. FLEXIBLE BASE MATERIAL FOR PUBLIC STREETS SHALL BE TXDOT TYPE A GRADE 1.
- 18. HOT MIX ASPHALTIC CONCRETE PAVEMENT SHALL BE TYPE D UNLESS OTHERWISE SPECIFIED AND SHALL BE A MINIMUM OF 2 INCHES THICK ON PUBLIC STREETS AND ROADWAYS.
- . ALL SIDEWALK RAMPS ARE TO BE INSTALLED WITH THE PUBLIC INFRASTRUCTURE.
- 1. A MAINTENANCE BOND IS REQUIRED TO BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS. THIS BOND SHALL BE ESTABLISHED FOR 1 YEAR IN THE AMOUNT OF 25% OF THE COST OF THE PUBLIC IMPROVEMENTS AND SHALL FOLLOW THE CITY FORMAT. RECORD DRAWINGS OF THE PUBLIC IMPROVEMENTS SHALL BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER PRIOR TO ACCEPTANCE OF THE PROJECT. THESE DRAWINGS SHALL BE ON MYLAR OR ON TIFF OR PDF DISK (300DPI). IF A DISK IS SUBMITTED, A BOND SET SHALL BE INCLUDED WITH THE DISK.

E GENERAL CONTRACT NOTES

- CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND FACILITIES PRIOR TO ANY EXCAVATION REQUIRED FOR CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER. CONTRACTOR IS TO TAKE PRECAUTION TO PROTECT EXISTING STRUCTURES, UTILITIES, AND OTHER FACILITIES FROM DAMAGE WHILE CONSTRUCTION
- OF THE IMPROVEMENTS, ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES OR OTHER FACILITIES INCURRED AS A RESULT OF CONTRACTORS ACTIONS ARE TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR IS TO GIVE NOTICE TO ALL AFFECTED PARTIES AND ALL REGULATORS OF THE COMMENCEMENT OF WORK AT LEAST 48 HOURS IN
- ADVANCE OF COMMENCEMENT OF WORK CONTRACTOR IS RESPONSIBLE FOR THE SOURCE AND TRANSPORT OF ALL POTABLE AND CONSTRUCTION WATER FOR THE PROJECT SITE AND TO THE
- PROJECT SITE AND THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF THE SAME. ANY WATER USED FOR ADDING MOISTURE FOR COMPACTION SHALL BE FREE FROM OIL, WASTE, AND ANY OTHER OBJECTIONABLE MATERIAL.
- CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND PAYMENT OF ALL DENSITY TESTS, CONCRETE TESTS, AND ASPHALT TESTS, UNLESS OTHERWISE SPECIFIED. ALL SUCH TESTS ARE TO BE PERFORMED IN ACCORDANCE WITH CITY'S SPECIFICATIONS INCLUDING FREQUENCY, UNLESS OTHERWISE SPECIFIED,. LOCATIONS FOR DENSITY TESTS WILL BE AS SPECIFIED BY THE OWNER OR THEIR REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE OF AND PAYMENT OF ALL CONSTRUCTION STAKING, UNLESS OTHERWISE SPECIFIED. ENGINEER MAY ASSIST IN CONSTRUCTION STAKING AS REQUIRED BY THE GOVERNING AUTHORITIES OR AS REQUESTED, AND PAID FOR, BY CONTRACTOR,
- ALL AS-BUILT DIMENSIONS SHALL CONFORM TO THE DESIGN DIMENSIONS PLUS OR MINUS 0.02 FEET. ALL AS-BUILT SLOPES SHALL CONFORM TO THE DESIGNED SLOPES PLUS OR MINUS 0.005 FOOT PER FOOT.
- THE METHODOLOGY FOR THE CONSTRUCTION OF THE IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS TO PROVIDE THE MATERIALS, EQUIPMENT, AND EFFORT TO COMPLETE THE INSTALLATION OF THE PROPOSED IMPROVEMENTS, WHETHER THOSE MATERIALS. EQUIPMENT, OR EFFORT IS SPECIFICALLY MENTIONED IN THESE PLANS OR NOT.
- CONTRACTOR IS TO COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AND REGULATIONS, AS WELL AS ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL HEALTH AND SAFETY STANDARDS, LAWS, OR REGULATIONS. FAILURE TO COMPLY WITH THE
- REQUIREMENTS SPECIFIED WILL BE CONSIDERED JUST AND SUFFICIENT CAUSE FOR THE OWNER TO STOP WORK. UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER IN THE GEOTECHNICAL REPORT FOR THIS PROJECT, SELECT BACK FILL SHALL: BE SUBSTANTIALLY FREE OF ORGANIC MATERIALS
 - HAVE A PLASTICITY INDEX BETWEEN 10 AND 18.
- HAVE A LIQUID LIMIT OF LESS THAN 35, AND FREE OF STONES OR ROCKS OVER 2 INCHES IN ANY DIMENSION
- SUCH SELECT FILL, WHEN CALLED FOR ON THE PLANS AND UNLESS OTHERWISE SPECIFIED, SHALL BE PLACED IN LOOSE, HORIZONTAL LAYERS SIX TO NINE INCHES IN THICKNESS AND COMPACTED TO 95 PERCENT OF THE STANDARD PROCTOR DENSITY OR THE MAXIMUM DENSITY AS SPECIFIED BY TXDOT
- TEST METHOD TEX-114-E. SANDY LOAM SHALL NOT BE USED FOR SELECT FILL.
- UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR IS RESPONSIBLE FOR THE PAYMENT OF AND PHYSICAL REMOVAL OF ALL SURPLUS MATERIAL FROM THE SITE. THE REMOVAL OF ANY MATERIAL FROM THE SITE SHALL BE TO A LOCATION APPROVED BY THE GOVERNING AGENCY AND OWNER. UNLESS OTHERWISE SPECIFIED, THE PROVISION OF AND PAYMENT FOR BONDING, INCLUDING BUT NOT LIMITED TO THE PROVISION OF PERFORMANCE
- AND PAYMENT BONDS, IS TO BE CONSIDERED SUBSIDIARY TO OTHER WORK. UNLESS OTHERWISE SPECIFIED, AND NOT INCLUDING MEASUREMENT AND PAYMENT SECTIONS. ALL WORK ON THESE PLANS SHALL BE IN
- E SPECIAL NOTES FOR STORM WATER POLLUTION PREVENTION PLANS (SW3P)

CONFORMANCE WITH THE CITY'S STANDARD SPECIFICATIONS

- ALL EROSION SEDIMENT CONTROLS SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE PERFORMED AT THE EARLIEST POSSIBLE DATE BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY FOURPMENT. DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED. TEMPORARILY OR PERMANENTLY SHALL BE STABILIZED WITHIN 14 CALENDAR DAYS UNLESS THEY ARE SCHEDULED TO AND DO RESUME WITHIN 21 CALENDAR DAYS. THE AREAS ADJACENT TO CREEKS AND DRAINAGE WAYS SHALL HAVE PRIORITY FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.
- AN INSPECTION OF ALL EROSION CONTROLS SHALL BE PERFORMED BY A DESIGNATED INSPECTOR EVERY 7 CALENDAR DAYS AS WELL AS AFTER EVERY HALF INCH OR MORE RAIN AS RECORDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED ON THE PROJECT SITE. AN INSPECTION AND MAINTENANCE REPORT SHALL BE FILED FOR EACH INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE REVISED AS PER THE INSPECTION REPORT. CONTRACTOR SHALL CORRECT ANY PROBLEMS IDENTIFIED WITHIN 48 HOURS.
- EXCEPT AS SPECIFIED ELSEWHERE, ALL WASTE MATERIALS SHALL BE COLLECTED IN A METAL DUMPSTER HAVING A SECURE COVER. THE DUMPSTER SHALL MEET ALL STATE AND LOCAL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND DEBRIS FROM CONSTRUCTION SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED, AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION, AND HAULED TO A LOCAL APPROVED LAND FILL SITE, THE BURYING OF CONSTRUCTION WASTE ON THE PROJECT SITE SHALL NOT BE PERMITTED,
- THE SPECIFICATION OF CONCRETE WASHOUT AREAS SHALL BE REQUIRED AND SHALL CONSIST AN APPROVED WASHOUT SYSTEM, SUCH AS RTC SUPPLY VINYL-CON CONCRETE WASHOUT (SIZE BASED ON SIZE OF JOB AND NUMBER OF CONCRETE TRUCKS), OR EQUAL.
- AS A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORY ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS, SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, AND CONCRETE CURING COMPOUNDS OR ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL REMEDIATED IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
- ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS, AS NECESSARY OR AS REQUIRED BY LOCAL REGULATIONS, BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.
- FUELS AND HAZARDOUS SUBSTANCES ARE NOT TO BE STORED ON SITE.
- CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS WATERING WITH IRRIGATION TRUCKS AND/OR MULCH. 3) THE LIMITS OF CONSTRUCTION FOR THIS PROJECT IS 18,209 ACRES.

EXPECTED TIME FRAMES FOR SEQUENCE OF CONSTRUCTION FOR SWPPP:

FINISH GRADE SITE, CLEAN UP, LANDSCAPE, AND REVEGETATE (2 WEEKS)

- GET PERMITS, SET UP EROSION CONTROLS, AND HAVE PRE-CONSTRUCTION CONFERENCE (4 WEEKS) ROUGH CUT PONDS, PERFORM ANY DEMOLITION, AND ROUGH GRADE SITE (10 WEEKS CHECK ENVIRONMENTAL CONTROLS (ON-GOING ACTIVITY) INSTALL UNDERGROUND UTILITIES (10 WEEK) CONSTRUCTION OF BUILDING (25 WEEKS) PAVE SITE (4 WEEKS)
- E GENERAL CONCRETE NOTES
- ALL CONCRETE, REINFORCING, AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST ACI CODES AND IBC INCLUDING LAPS, SPLICES, TERMINATIONS, BAR SUPPORTS, AND CONCRETE COVER. UNLESS OTHERWISE SPECIFIED, BARS SHALL BE DEFORMED GRADE 60.
- UNLESS OTHERWISE SPECIFIED, ALL CONCRETE FOR FLAT WORK, CURBS, AND WALLS 3 FEET IN HEIGHT OR LESS SHALL CONFORM TO CITY OF AUSTIN CLASS A (3000 psi) AND ALL CONCRETE FOR WALLS GREATER THAN 3 FEET IN HEIGHT, AND OTHER VERTICAL STRUCTURES, SHALL CONFORM TO CITY OF AUSTIN CLASS S (4000 psi).
- UNLESS OTHERWISE SPECIFIED, ALL DOWELS SHALL BE OF THE SAME SIZE AND SPACING AS THE REINFORCEMENT TO WHICH THE DOWEL IS TO BE SPLICED. DOWELS SHALL BE FIRMLY SET PRIOR TO PLACING THE CONCRETE; DOWELS SHALL NOT BE INSERTED INTO FRESH CONCRETE. UNLESS OTHERWISE SPECIFIED, ALL EXPOSED WALL EDGES ARE TO RECEIVE 3/4" CHAMFER.
- UNLESS OTHERWISE SPECIFIED, ALL EXPOSED VERTICAL SURFACES TO RECEIVE A RUBBED FINISH AND ALL EXPOSED FLAT WORK SURFACES TO RECEIVE A BROOM FINISH. UNLESS OTHERWISE SPECIFIED OR SHOWN, EXPANSION JOINTS AND CONTROL JOINTS SHOULD BE LAID OUT SO THAT NO SECTION OF CONCRETE HAS A
- CORNER WITH AN ANGLE LESS THAN 60 DEGREES. ANY JOINT FORMING A CORNER WITH AN ANGLE OF LESS THAN 60 DEGREES SHOULD BE REALIGNED TO INCLUDE A STRAIGHT SECTION AT 90 DEGREES THAT IS AT LEAST 6 INCHES IN LENGTH UNLESS OTHERWISE SPECIFIED, CONTROL JOINTS IN CONCRETE FLAT WORK SHALL BE FORMED WITH A TROWEL, 3/4" DEEP, 5 FEET ON CENTER, AND ROUNDED. UNLESS OTHERWISE SPECIFIED, CONTROL JOINTS IN VERTICAL CONCRETE SHALL BE FORMED WITH 3/4" CHAMFER STRIPS AND SHALL BE
- SPACED NO FURTHER APART THAN 25 FEET ON CENTER. UNLESS OTHERWISE SPECIFIED, EXPANSION JOINTS SHALL BE INCLUDED IN ALL CONCRETE FLAT WORK AT A MAXIMUM SPACING OF 25 FEET ON CENTER AND SHALL BE INCLUDED IN ALL CONCRETE WALLS AT A MAXIMUM SPACING OF 20 FEET ON CENTER. JOINTS SHALL BE 3/4-INCH WIDE AND FILLED WITH ASPHALTIC FIBER BOARD. EXPANSION JOINTS IN WALLS RETAINING WATER SHALL INCLUDE A CONTINUOUS WATER STOP EXTENDING DOWN TO THE FOOTING. DOWELS SHALL BE INCLUDED IN ALL EXPANSION JOINTS THAT ARE AT LEAST OF THE SAME SIZE AND SPACING AS THE REINFORCING
- E GENERAL PAVEMENT NOTES:
- ALL MARKINGS, MARKERS, SIGNAGE, BUTTONS, PAINT AND OTHER TRAFFIC RELATED CONTROLS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) MANUAL ON UNIFORM TRAFFIC CONTROL DEVISES FOR STREETS AND HIGHWAYS (MUTCD). THESE INCLUDE ANY METHODS, PAVEMENT MARKING, SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARN PEDESTRIANS, AND/OR DIVERTING TRAFFIC DURING CONSTRUCTION AS WELL AS ANY MARKINGS, MARKERS, SIGNAGE, BUTTONS, AND PAINT REQUIRED FOR THE FINISHED PRODUCT.

SPILL PREVENTION AND CONTROL NOTES (BASED ON TAC 30.327)

- NOTIFICATION REQUIREMENTS
- A REPORTABLE DISCHARGE OR SPILL IS A DISCHARGE OR SPILL OF OIL, PETROLEUM PRODUCT, USED OIL, HAZARDOUS WASTE, OR OTHER SUBSTANCES INTO THE ENVIRONMENT IN A QUANTITY EQUAL TO OR GREATER THAN THE REPORTA QUANTITY LISTED IN SECTION 327.4 OF THIS TITLE (RELATING TO REPORTABLE QUANTITIES) IN ANY 24-HOUR PERIOD. (B) INITIAL NOTIFICATION
- UPON THE DETERMINATION THAT A REPORTABLE DISCHARGE OR SPILL HAS OCCURRED, THE CONTRACTOR SHALL NOTI NOT LATER THAN 24 HOURS AFTER THE DISCOVERY OF THE SPILL OR DISCHARGE.
- (C) METHOD OF NOTIFICATION. CONTRACTOR SHALL NOTIFY TCEQ IN ANY REASONABLE MANNER INCLUDING BY TELEPHONE, IN PERSON, OR BY ANY (ALL CASES, THE INITIAL NOTIFICATION SHALL PROVIDE, TO THE EXTENT KNOWN, THE INFORMATION LISTED IN SUBSEC PROVIDED UNDER THIS SECTION SATISFIES THE FEDERAL REQUIREMENT TO NOTIFY THE STATE EMERGENCY RESPONSE
- (1) THE STATE EMERGENCY RESPONSE CENTER AT 1-800-832-8224; (2) DURING NORMAL BUSINESS HOURS ONLY, THE REGIONAL OFFICE FOR THE TCEQ REGION IN WHICH THE DISC
- (3) THE TCEQ AT THE TCEQ 24-HOUR SPILL REPORTING NUMBER(512) 239-2507 OR (512) 463-7727. (D) INFORMATION REQUIRED IN INITIAL NOTIFICATION INITIAL NOTIFICATION SHALL PROVIDE, TO THE EXTENT KNOWN, THE INFORMATION IN THE FOLLOWING LIST. COPIES OF
- GOVERNMENTAL AGENCIES SHALL SATISFY THIS REQUIREMENT IF THEY CONTAIN, OR ARE SUPPLEMENTED TO CONTAI THIS SUBSECTION. THE INITIAL NOTIFICATION SHALL CONTAIN:
- (1) THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PERSON MAKING THE TELEPHONE REPORT; 2) THE DATE, TIME, AND LOCATION OF THE SPILL OR DISCHARGE; (3) SPECIFIC DESCRIPTION OR IDENTIFICATION OF THE OIL, PETROLEUM PRODUCT, HAZARDOUS SUBSTANCES
- (4) AN ESTIMATE OF THE QUANTITY DISCHARGED OR SPILLED: (5) THE DURATION OF THE INCIDENT:
- (6) THE NAME OF THE SURFACE WATER OR A DESCRIPTION OF THE WATERS IN THE STATE AFFECTED OR THREA (7) THE SOURCE OF THE DISCHARGE OR SPILL; (8) A DESCRIPTION OF THE EXTENT OF ACTUAL OR POTENTIAL WATER POLLUTION OR HARMFUL IMPACTS TO TH
- IDENTIFICATION OF ANY ENVIRONMENTALLY SENSITIVE AREAS OR NATURAL RESOURCES AT RISK: (9) IF DIFFERENT FROM PARAGRAPH (1) OF THIS SUBSECTION, THE NAMES, ADDRESSES, AND TELEPHONE NUM CONTACT PERSON AT THE LOCATION OF THE DISCHARGE OR SPILL (10) DESCRIPTION OF ANY ACTIONS THAT HAVE, WILL, AND/OR ARE BEING TAKEN TO CONTAIN AND RESPOND
- (11) ANY KNOWN OR ANTICIPATED HEALTH RISKS (12) THE IDENTITY OF ANY GOVERNMENTAL REPRESENTATIVES, INCLUDING LOCAL AUTHORITIES OR THIRD PAR DISCHARGE/SPILL
- (13) ANY OTHER INFORMATION THAT MAY BE SIGNIFICANT TO THE RESPONSE ACTION. (E) UPDATE NOTIFICATION.
- CONTRACTOR SHALL NOTIFY THE TCEQ AS SOON AS POSSIBLE WHENEVER NECESSARY TO PROVIDE INFORMATION TH RESPONSE TO THE SPILL OR DISCHARGE. (F) CORRECTION OF RECORDS.
- NOTIFYING TCEQ THAT A REPORTABLE DISCHARGE OR SPILL HAS OCCURRED SHALL NOT BE CONSTRUED AS AN ADMISS FURTHERMORE, IF THE CONTRACTOR DETERMINES, AFTER NOTIFICATION, THAT A REPORTABLE DISCHARGE OR SPILL SEND A LETTER TO TCEQ DOCUMENTING THAT DETERMINATION. IF THE EXECUTIVE DIRECTOR AGREES WITH THAT DET WILL NOTE THE DETERMINATION IN COMMISSION RECORDS. IF THE EXECUTIVE DIRECTOR DISAGREES WITH THAT DETE WILL NOTIFY THE CONTRACTOR WITHIN 30 DAYS.
- (G) NOTIFICATION OF LOCAL GOVERNMENTAL AUTHORITIES
- IF THE DISCHARGE OR SPILL CREATES AN IMMINENT HEALTH THREAT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND COOPERATE WITH LOCAL EMERGENCY AUTHORITIES (FIRE DEPARTMENT, FIRE MARSHA HEALTH AUTHORITY, OR LOCAL EMERGENCY PLANNING COMMITTEE (LEPC), AS APPROPRIATE). THE RESPONSIBLE EMERGENCY AUTHORITY IN PROVIDING SUPPORT TO IMPLEMENT APPROPRIATE NOTIFICATION AND RESPONSE ACT AUTHORITY, AS NECESSARY, WILL IMPLEMENT ITS EMERGENCY MANAGEMENT PLAN, WHICH MAY INCLUDE NOTIFYIN PERSONS. IN THE ABSENCE OF A LOCAL EMERGENCY AUTHORITY, THE CONTRACTOR SHALL TAKE REASONABLE MEA
- AFFECTED PERSONS OF THE IMMINENT HEALTH THREAT. (H) NOTIFICATION TO PROPERTY OWNER AND RESIDENTS. AS SOON AS POSSIBLE, BUT NO LATER THAN TWO WEEKS AFTER DISCOVERY OF SPILL/DISCHARGE. CONTRACTOR SHAL OWNER (IF IDENTIFIABLE) OR OCCUPANT OF THE PROPERTY UPON WHICH DISCHARGE/SPILL OCCURRED AS WELL AS
- THE CONTRACTOR REASONABLY BELIEVES IS ADVERSELY AFFECTED. (I) ADDITIONAL NOTIFICATION REQUIRED
- NOTICE PROVIDED UNDER THIS SECTION SATISFIES THE FEDERAL REQUIREMENT TO NOTIFY THE STATE EMERGENCY F TEXAS. HOWEVER, COMPLYING WITH THE NOTIFICATION REQUIREMENTS SET FORTH IN THIS SECTION DOES NOT RELIE NOTIFICATION REQUIREMENTS IMPOSED BY PERMIT OR OTHER LOCAL, STATE, OR FEDERAL LAW. THE CONTRACTOR TO DETERMINE IF ANY ADDITIONAL NOTIFICATION IS REQUIRED AND SHOULD CONSULT WITH THE TECQ AS TO WHETHEF NOTIFICATION IS REQUIRED
- (J) ALTERNATIVE NOTIFICATION PLANS (1) CONTRACTORS IN CHARGE OF ACTIVITIES AND FACILITIES MAY SUBMIT AND IMPLEMENT AN ALTERNATIVE NO NOTIFICATION PLAN SHALL COMPLY WITH THE TEXAS WATER CODE, SECTION 26.039. CONTRACTORS SHALL OB BEFORE IMPLEMENTING ANY ALTERNATIVE NOTIFICATION PLAN. (2) UPON APPROVAL OF THE TCEQ REGIONAL MANAGER, CONTRACTORS MAY PROVIDE THE INITIAL NOTIFICATION

REPORTABLE QUANTITIES (RQ HAZARDOUS SUBSTANCES

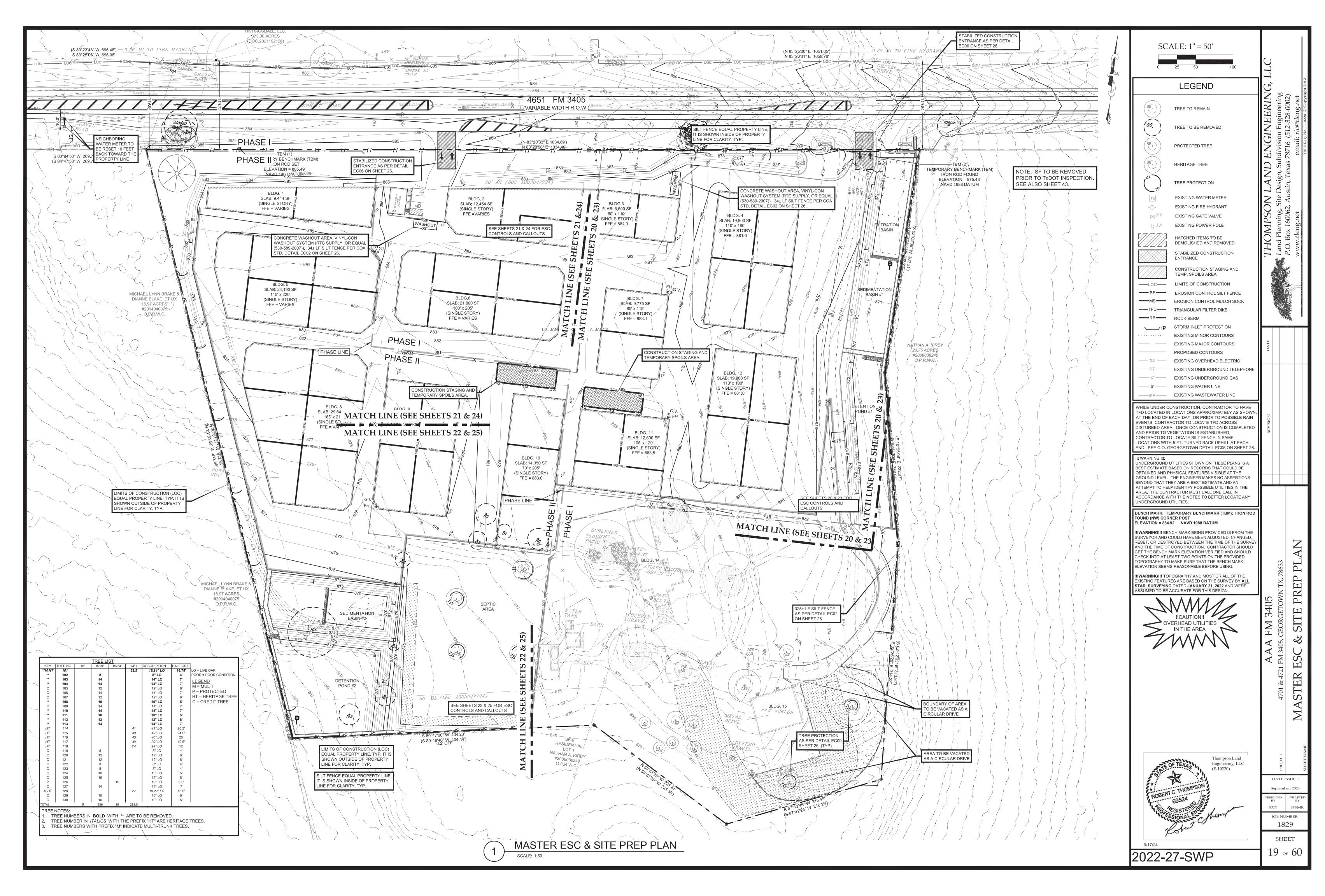
- THE REPORTABLE QUANTITIES FOR HAZARDOUS SUBSTANCES SHALL BE: (1) FOR SPILLS/DISCHARGES ONTO LAND--THE QUANTITY DESIGNATED AS THE FINAL REPORTABLE QUANTITY (2) FOR SPILLS OR DISCHARGES INTO WATERS IN THE STATE--THE QUANTITY DESIGNATED AS THE FINAL RQ IN
- EXCEPT WHERE THE FINAL RQ IS GREATER THAN 100 POUNDS IN WHICH CASE THE RQ SHALL BE 100 POUNDS (B) OIL. PETROLEUM PRODUCT, AND USED OIL. (1) THE RQ FOR CRUDE OIL AND OIL OTHER THAN THAT DEFINED AS PETROLEUM PRODUCT OR USED OIL SHAL
- (A) FOR SPILLS OR DISCHARGES ONTO LAND--210 GALLONS (FIVE BARRELS); OR (B) FOR SPILLS OR DISCHARGES DIRECTLY INTO WATER IN THE STATE-QUANTITY SUFFICIENT TO CREA (2) THE RQ FOR PETROLEUM PRODUCT AND USED OIL SHALL BE:
- (B) FOR SPILLS OR DISCHARGES TO LAND FROM PST EXEMPTED FACILITIES--210 GALLONS (FIVE BARRE (C) FOR SPILLS OR DISCHARGES DIRECTLY INTO WATER IN THE STATE-QUANTITY SUFFICIENT TO CREA (C) INDUSTRIAL SOLID WASTE OR OTHER SUBSTANCES. THE RQ FOR SPILLS OR DISCHARGES INTO WATER IN THE STATE SHALL BE 100 POUNDS.
- <u>ACTIONS REQUIRED</u> (A) THE CONTRACTOR SHALL IMMEDIATELY ABATE AND CONTAIN THE SPILL OR DISCHARGE AND COOPERATE FULLY WIT
- LOCAL INCIDENT COMMAND SYSTEM. THE CONTRACTOR SHALL ALSO BEGIN REASONABLE RESPONSE ACTIONS WHICH N THE FOLLOWING ACTIONS: (1) ARRIVAL OF THE CONTRACTOR OR RESPONSE PERSONNEL HIRED BY THE CONTRACTOR AT THE SITE OF TH
- (2) INITIATING EFFORTS TO STOP THE DISCHARGE OR SPILL (3) MINIMIZING THE IMPACT TO THE PUBLIC HEALTH AND THE ENVIRONMENT;
- (4) NEUTRALIZING THE EFFECTS OF THE INCIDENT: (5) REMOVING THE DISCHARGED OR SPILLED SUBSTANCES; AND
- (6) MANAGING THE WASTES.
- (B) UPON REQUEST OF THE LOCAL GOVERNMENT RESPONDERS OR THE EXECUTIVE DIRECTOR. THE CONTRACTOR SHA DESCRIPTION, OR BOTH, OF THE PLANNED RESPONSE ACTIONS AND ALL ACTIONS TAKEN BEFORE THE LOCAL GOVERNM DIRECTOR ARRIVE. WHEN THE TCEQ ON-SCENE COORDINATOR REQUESTS THIS INFORMATION, IT IS SUBJECT TO POSSIE REQUIREMENTS BY THE EXECUTIVE DIRECTOR. THE INFORMATION WILL SERVE AS A BASIS FOR THE EXECUTIVE DIRECT (1) FURTHER RESPONSE ACTIONS BY THE CONTRACTOR:
- (2) INITIATING STATE FUNDED ACTIONS FOR WHICH THE CONTRACTOR MAY BE HELD LIABLE TO THE MAXIMUM E (3) SUBSEQUENT REPORTS ON THE RESPONSE ACTIONS. (C) EXCEPT FOR DISCHARGES OR SPILLS OCCURRING DURING THE NORMAL COURSE OF TRANSPORTATION ABOUT WHIC WRITTEN REPORT WITH THE U.S. DEPARTMENT OF TRANSPORTATION UNDER 49 CFR SECTION 171.16. THE CONTRACT
- SUCH AS A LETTER, DESCRIBING THE DETAILS OF THE DISCHARGE OR SPILL AND SUPPORTING THE ADEQUACY OF THE F TCEQ REGIONAL MANAGER WITHIN 30 WORKING DAYS OF THE DISCOVERY OF THE REPORTABLE DISCHARGE OR SPILL. DISCRETION TO EXTEND THE DEADLINE. THE DOCUMENTATION SHALL CONTAIN ONE OF THE FOLLOWING ITEMS: (1) A STATEMENT THAT THE DISCHARGE/SPILL RESPONSE ACTION HAS BEEN COMPLETED AND A DESCRIPTION
- CONDUCTED SHALL INCLUDE THE INITIAL REPORT INFORMATION REQUIRED BY SECTION 327.3(C) OF THIS TITL REQUIREMENTS). THE EXECUTIVE DIRECTOR MAY REQUEST ADDITIONAL INFORMATION, APPROPRIATE RESPON DISCHARGE/SPILL INCLUDE USE OF THE TEXAS RISK REDUCTION PROGRAM RULES IN CHAPTER 350 OF THIS TI
- PROGRAM). (2) A REQUEST FOR AN EXTENSION OF TIME TO COMPLETE THE RESPONSE ACTION, ALONG WITH THE REASONS ALSO INCLUDE A PROJECTED WORK SCHEDULE OUTLINING THE TIME REQUIRED TO COMPLETE THE RESPONSE GRANT AN EXTENSION UP TO SIX MONTHS FROM THE DATE THE SPILL OR DISCHARGE WAS REPORTED. UNLESS
- APPROPRIATE REGIONAL MANAGER OR THE EMERGENCY RESPONSE TEAM, THE CONTRACTOR SHALL PROCEED PROJECTED WORK SCHEDULE (3) A STATEMENT THAT THE DISCHARGE OR SPILL RESPONSE ACTION HAS NOT BEEN COMPLETED NOR IS IT EX MAXIMUM ALLOWABLE SIX MONTH EXTENSION. THE STATEMENT SHALL EXPLAIN WHY COMPLETION OF THE RES
- INCLUDE A PROJECTED WORK SCHEDULE OUTLINING THE REMAINING TASKS TO COMPLETE THE RESPONSE ACT AS NOTIFICATION THAT THE RESPONSE ACTIONS TO THE DISCHARGE OR SPILL WILL BE CONDUCTED UNDER TH RULES IN CHAPTER 350 OF THIS TITLE (RELATING TO TEXAS RISK REDUCTION PROGRAM). THE PERSON RESPONSIBLE FOR CLEANING UP A SPILL IS:
- THE OWNER OR OPERATOR OF A FACILITY FROM WHICH A SPILL EMANATES;
- THE OWNER, OPERATOR, OR DEMISE CHARTERER OF A VESSEL FROM WHICH A SPILL EMANATES; OR • ANY OTHER PERSON WHO CAUSES, SUFFERS, ALLOWS, OR PERMITS A SPILL OR DISCHARGE.
- NOTIFICATION, EMERGENCY RESPONSE, SPILL CLEANUPS THAT TAKE LESS THAN 180 DAYS:

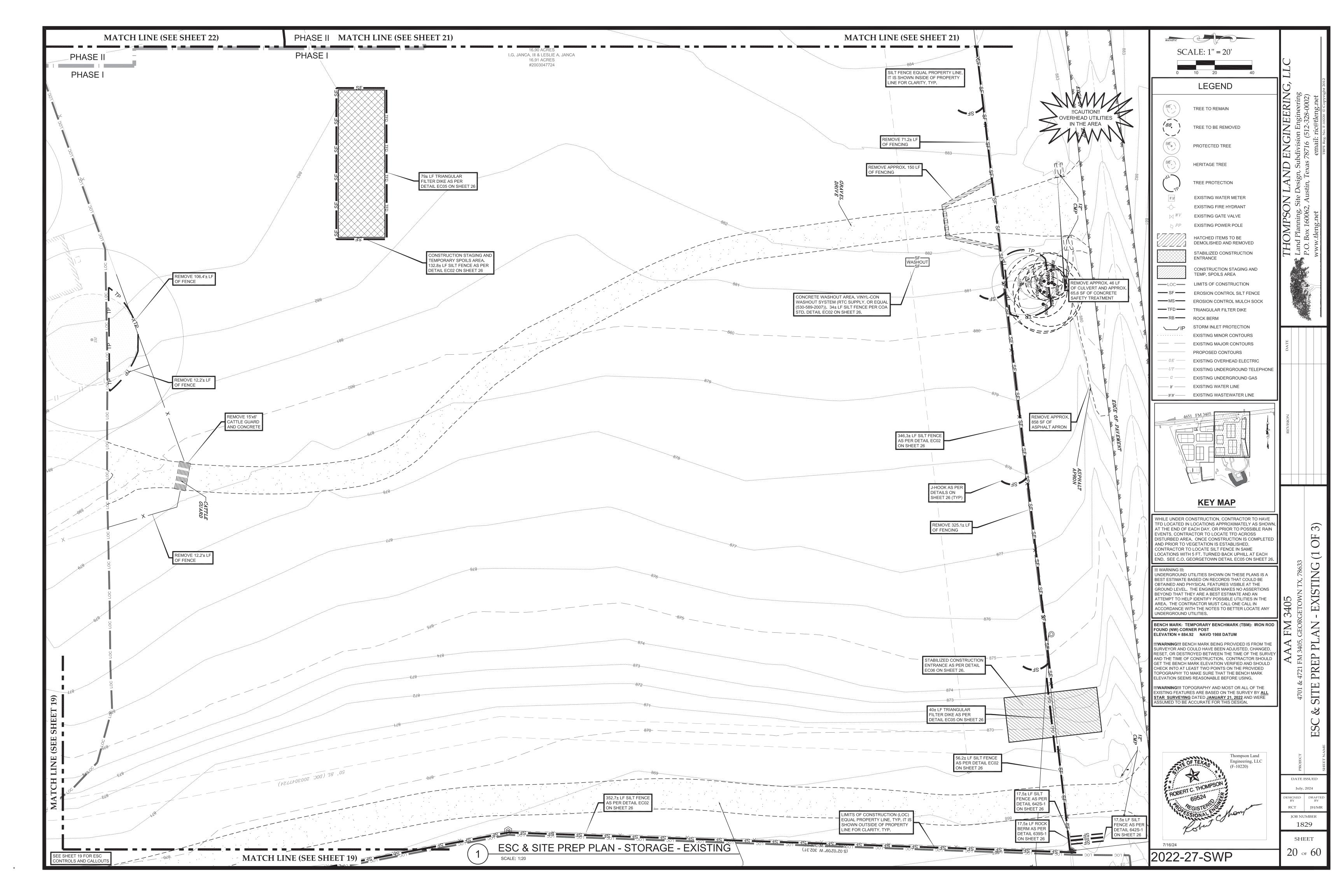
SHALL HAVE A MINIMUM SLOPE OF 2.0 PERCENT.

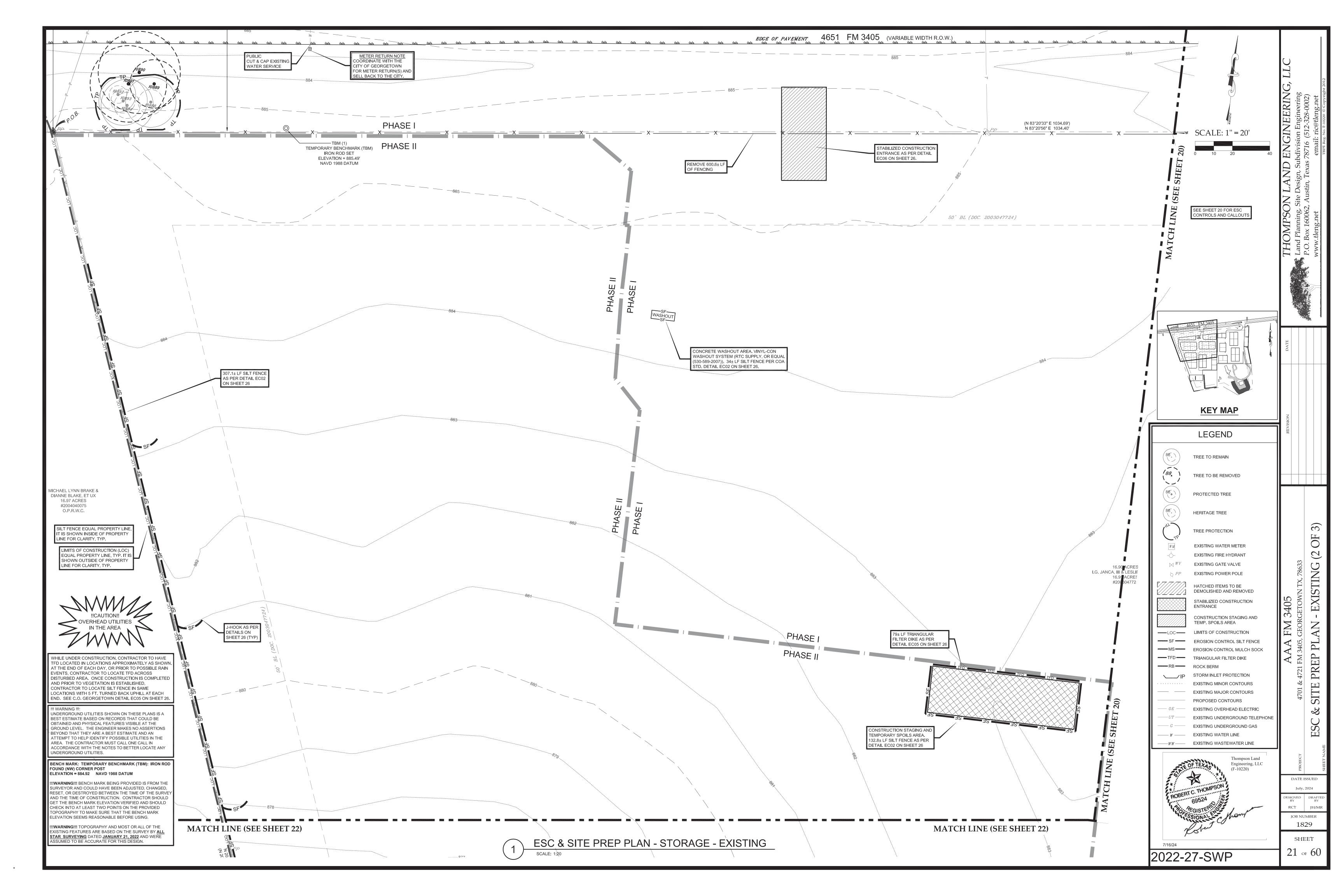
	SPILL PREVENTION AND CONTROL NOTES (BASED ON TAC 30.327)	SEQUENC	CE OF CONS	ONSTRUC	ION	EROSION CONTROL NO	TES (COA ECM	APPENDIX P-1)	
	A DISCHARGE OR SPILL IS AN ACT OR OMISSION BY WHICH OIL, HAZARDOUS SUBSTANCES, WASTE, OR OTHER SUBSTANCES ARE SPILLED, LEAKED, PUMPED, POURED, EMITTED, ENTERED, OR DUMPED ONTO OR INTO WATERS IN THE STATE OF TEXAS OR BY WHICH THOSE SUBSTANCES ARE DEPOSITED WHERE, UNLESS CONTROLLED OR REMOVED, THEY MAY DRAIN, SEEP, RUN, OR OTHERWISE ENTER WATER IN THE STATE OF TEXAS. NOTIFICATION REQUIREMENTS:	I TLE	1.	TC GF	VIEW THE PLANS FOR ANY ASPECTS WHICH MAY SEEM UNCLEAR AND GET ANY CLARIFICATIONS NEEDED FROM THE ENGINEER PRIOR BEGINNING CONSTRUCTION. DO NOT BEGIN CONSTRUCTION UNTIL YOU BELIEVE THAT YOU UNDERSTAND ALL THE NOTES AND APHICS ON THE PLAN VIEWS AND PROFILES, AS WELL AS THE NOTES ON THE GENERAL NOTES SHEET AND THE DETAILS ON THE TAILS SHEETS.	APPLICABLE) PRIOR TO 2. THE PLACEMENT OF ER CONTROL PLAN. THE C	ANY SITE PREPAR OSION/SEDIMENT DA ESC PLAN SHA	SION/SEDIMENTATION CONTROLS, TREE ATION WORK (CLEARING, GRUBBING OR ATION CONTROLS SHALL BE IN ACCORD, LL BE CONSULTED AND USED AS THE B/ SPECTOR AT ALL TIMES DURING CONSTR	EXCAVATION). ANCE WITH THE ENVIRONIA ASIS FOR A TPDES REQUIR
NTS	(A) REPORTABLE DISCHARGE OR SPILL. A REPORTABLE DISCHARGE OR SPILL IS A DISCHARGE OR SPILL OF OIL, PETROLEUM PRODUCT, USED OIL, HAZARDOUS SUBSTANCES, INDUSTRIAL SOLID WASTE, OR OTHER SUBSTANCES INTO THE ENVIRONMENT IN A QUANTITY EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITY LISTED IN SECTION 327.4 OF THIS TITLE (RELATING TO REPORTABLE QUANTITIES) IN ANY 24-HOUR PERIOD. (B) INITIAL NOTIFICATION.	TLE	2.	IN	RIFY WHETHER A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED AND, IF ONE IS REQUIRED, FILE A NOTICE OF ENT (NOI) PRIOR TO COMMENCING CONSTRUCTION. ALSO POST THE REQUIRED CONSTRUCTION SITE NOTICE AND ENSURE A COPY THE REPORT IS KEPT IN THE LOCATION CITED ON THE CONSTRUCTION NOTICE.	ELEMENTS THAT SHALL - PLAN SHEETS SUE √ DIRECTION OF FLO	BE REVIEWED FC MITTED TO THE C W DURING GRAD	R PERMIT APPROVAL BY COA EV PLAN RE TY OF AUSTIN MUST SHOW THE FOLLOW	EVIEWERS AS WELL AS COA
	UPON THE DETERMINATION THAT A REPORTABLE DISCHARGE OR SPILL HAS OCCURRED, THE CONTRACTOR SHALL NOTIFY THE TCEQ AS SOON AS POSSIBLE BUT NOT LATER THAN 24 HOURS AFTER THE DISCOVERY OF THE SPILL OR DISCHARGE. (C) METHOD OF NOTIFICATION.	TxDOT TLE	3. 4.		WORK IN TXDOT R.O.W. IS ALLOWED UNLESS NTP IS ISSUED AND PRECON CONDUCTED. KE SURE ANY DEMOLITION AND/OR WORK IN THE RIGHT-OF-WAY PERMITS HAVE BEEN OBTAINED. NO CONSTRUCTION IS TO	✓ AREAS THAT WILL	NOT BE DISTURB	D; NATURAL FEATURES TO BE PRESERV	ED.
EQ	CONTRACTOR SHALL NOTIFY TCEQ IN ANY REASONABLE MANNER INCLUDING BY TELEPHONE, IN PERSON, OR BY ANY OTHER METHOD APPROVED BY THE TCEQ. IN ALL CASES, THE INITIAL NOTIFICATION SHALL PROVIDE, TO THE EXTENT KNOWN, THE INFORMATION LISTED IN SUBSECTION (D) OF THIS SECTION. NOTICE PROVIDED UNDER THIS SECTION SATISFIES THE FEDERAL REQUIREMENT TO NOTIFY THE STATE EMERGENCY RESPONSE COMMISSION IN THE STATE OF TEXAS.	TLE	5	CC	MMENCE WITHOUT A TRAFFIC CONTROL PLAN APPROVED BY THE CITY OF AUSTIN RIGHT-OF-WAY MANAGEMENT DIVISION. KE SURE ALL THE PERMITS ARE ACTIVE (HAVE NOT EXPIRED) AND CONFIRM THEIR EXPIRATION DATES TO ENSURE NONE EXPIRE.	✓ LOCATION AND TY✓ CALCULATIONS FOR		FOR EACH PHASE OF DISTURBANCE. IRED.	
ITS.	THE CONTRACTOR SHALL NOTIFY ONE OF THE FOLLOWING: (1) THE STATE EMERGENCY RESPONSE CENTER AT 1-800-832-8224; (2) DURING NORMAL BUSINESS HOURS ONLY. THE REGIONAL OFFICE FOR THE TCEO REGION IN WHICH THE DISCHARGE OR SPILL OCCURRED: OR	TLE	6.	6. VE	REVEALE THE FEMILIES ARE ADDREED WE (HAVE NOT EXTINCE) AND COMPANY MELLICENTIAL AND THE PROTECTION AS SHOWN ON ESE PLANS.		ITE SPOILS, DES	MPORARY STABILIZATION MEASURES. CRIPTION OF HANDLING AND DISPOSAL O	F BORROW MATERIALS, AN
	(3) THE TCEQ AT THE TCEQ 24-HOUR SPILL REPORTING NUMBER(512) 239-2507 OR (512) 463-7727 (D) INFORMATION REQUIRED IN INITIAL NOTIFICATION.	TLE	7.	′. C⊦	ECK THE COVER SHEET TO SEE IF A CONTRIBUTING ZONE PLAN (CZP) OR WATER POLLUTION ABATEMENT PLAN (WPAP) WAS	✓ DESCRIBE SEQUE	ICE OF CONSTRU	THOGEDURES. CTION AS IT PERTAINS TO ESC INCLUDIN S (E.G. PERIMETER CONTROLS. THEN SE	
	INITIAL NOTIFICATION SHALL PROVIDE, TO THE EXTENT KNOWN, THE INFORMATION IN THE FOLLOWING LIST. COPIES OF SPILL REPORTS PREPARED FOR OTHER GOVERNMENTAL AGENCIES SHALL SATISFY THIS REQUIREMENT IF THEY CONTAIN, OR ARE SUPPLEMENTED TO CONTAIN, ALL THE INFORMATION REQUIRED BY THIS SUBSECTION. THE INITIAL NOTIFICATION SHALL CONTAIN: (1) THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PERSON MAKING THE TELEPHONE REPORT; (2) THE DATE, TIME, AND LOCATION OF THE SPILL OR DISCHARGE;			TC AL RE	QUIRED BY TCEQ. IF ONE WAS REQUIRED, MAKE SURE TO OBTAIN A COPY, READ IT, AND KEEP A COPY ON-SITE. ALSO MAKE SURE READ THE RELATED NOTES ON THE NOTE SHEET(S) AND NOTIFY THE TCEQ 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. SO MAKE SURE THAT THE NOTICE OF APPROVAL FROM THE TCEQ WAS FILED IN THE COUNTY DEED RECORDS AND PROOF OF THAT CORDING SUBMITTED TO THE AUSTIN REGIONAL OFFICE. NOTE THAT APPROVAL SHOULD HAVE BEEN RECORDED WITHIN 60 DAYS OF PROVAL.	 PROJECT PHASING IF SEQUENCE OF GRADI 	REQUIRED (LOC (NG OPERATIONS ERTING TEMPOR	REATER THAN 25 ACRES) IND NOTATION OF TEMPORARY STABILIZ IRY BASINS TO PERMANENT WQ CONTRO	ATION MEASURES TO BE U
	 (3) SPECIFIC DESCRIPTION OR IDENTIFICATION OF THE OIL, PETROLEUM PRODUCT, HAZARDOUS SUBSTANCES OR OTHER SUBSTANCES CHARGED/SPILLED; (4) AN ESTIMATE OF THE QUANTITY DISCHARGED OR SPILLED; (5) THE DURATION OF THE INCIDENT; (6) THE NAME OF THE SURFACE WATER OR A DESCRIPTION OF THE WATERS IN THE STATE AFFECTED OR THREATENED BY THE DISCHARGE OR SPILL; (7) THE SOURCE OF THE DISCHARGE OR SPILL: 	COA P-4	8.	SU PC	MPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR BDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORMWATER LLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION, INITIATE TREE 'IGATION MEASURES AND CONDUCT "PRE - CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE).	 CATEGORIZE EAC 3.1 MINIMIZE DISTU 	I BMP UNDER ON RBED AREA AND F	FOR TEMPORARY CONTROLS OF THE FOLLOWING AREAS OF BMP AC ROTECT NATURAL FEATURES AND SOIL GONTO AND THROUGH THE PROJECT	TIVITY AS DESCRIBED BELC
~-	 (8) A DESCRIPTION OF THE EXTENT OF ACTUAL OR POTENTIAL WATER POLLUTION OR HARMFUL IMPACTS TO THE ENVIRONMENT AND AN IDENTIFICATION OF ANY ENVIRONMENTALLY SENSITIVE AREAS OR NATURAL RESOURCES AT RISK; (9) IF DIFFERENT FROM PARAGRAPH (1) OF THIS SUBSECTION, THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF THE CONTRACTOR AND THE CONTACT PERSON AT THE LOCATION OF THE DISCHARGE OR SPILL; 	COA P-4	9.	EN	E ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE DEVELOPMENT SERVICES DEPARTMENT, VIRONMENTAL INSPECTION, AT 512-974-2278, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON-SITE ECONSTRUCTION MEETING.	3.3 STABILIZE SOIL 3.4 PROTECT SLOP 3.5 PROTECT STOR	S		
UI.	 (10) DESCRIPTION OF ANY ACTIONS THAT HAVE, WILL, AND/OR ARE BEING TAKEN TO CONTAIN AND RESPOND TO THE DISCHARGE/SPILL; (11) ANY KNOWN OR ANTICIPATED HEALTH RISKS; (12) THE IDENTITY OF ANY GOVERNMENTAL REPRESENTATIVES, INCLUDING LOCAL AUTHORITIES OR THIRD PARTIES, RESPONDING TO THE DISCHARGE/SPILL; (13) ANY OTHER INFORMATION THAT MAY BE SIGNIFICANT TO THE RESPONSE ACTION. 	TLE	10.	AS	ANY PART OF THE PROPOSED WORK IS IN THE ROW, MAKE SURE TO CONTACT THE OWNER OF THE ROW (TXDOT, CITY, COUNTY) TO CERTAIN WHAT (IF ANY) INSPECTIONS WILL BE REQUIRED AND IF ONE IS REQUIRED, GET A PRECONSTRUCTION CONFERENCE HELD TH THE INSPECTOR.		IT ON-SITE AND C	S AND SEDIMENT BARRIERS ONTROL DEWATERING PRACTICES CTION EXITS	
R.	(E) UPDATE NOTIFICATION. (E) UPDATE NOTIFICATION. CONTRACTOR SHALL NOTIFY THE TCEQ AS SOON AS POSSIBLE WHENEVER NECESSARY TO PROVIDE INFORMATION THAT WOULD TRIGGER A CHANGE IN THE RESPONSE TO THE SPILL OR DISCHARGE. (F) CORRECTION OF RECORDS. NOTIFYING TCEQ THAT A REPORTABLE DISCHARGE OR SPILL HAS OCCURRED SHALL NOT BE CONSTRUED AS AN ADMISSION THAT POLLUTION HAS OCCURRED.	COA P-4	11.	CC (S\ CI	E ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL NTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN VPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH Y INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND E EROSION PLAN.		ON OF EACH BMP	ON YOUR SITE MAP(S). HOULD PROVIDE DESIGN SPECIFICATION OF AUSTIN ENVIRONMENTAL CRITERIA M	
	FURTHERMORE, IF THE CONTRACTOR DETERMINES, AFTER NOTIFICATION, THAT A REPORTABLE DISCHARGE OR SPILL DID NOT OCCUR, THE CONTRACTOR MAY SEND A LETTER TO TOEQ DOCUMENTING THAT DETERMINATION. IF THE EXECUTIVE DIRECTOR AGREES WITH THAT DETERMINATION, THE EXECUTIVE DIRECTOR WILL NOTE THE DETERMINATION IN COMMISSION RECORDS. IF THE EXECUTIVE DIRECTOR DISAGREES WITH THAT DETERMINATION, THE EXECUTIVE DIRECTOR WILL NOTE THE DETERMINATION IN COMMISSION RECORDS. IF THE EXECUTIVE DIRECTOR DISAGREES WITH THAT DETERMINATION, THE EXECUTIVE DIRECTOR WILL NOTIFY THE CONTRACTOR WITHIN 30 DAYS.	TLE	12.		NTRACTOR TO CONTACT COUNTY PRIOR TO CONSTRUCTION FOR ANY PRECONSTRUCTION CONFERENCE FOR ENVIRONMENTAL, IVEWAY AND/OR SEPTIC INSPECTIONS.	AND THE APPROVED GF 4. A PRE-CONSTRUCTION	ADING/TREE AND CONFERENCE SH	A PROTECTIVE FENCING SHALL BE IN A NATURAL AREA PLAN. ALL BE HELD ON-SITE WITH THE CONTRA S, TREE/NATURAL AREA PROTECTION ME	CTOR, DESIGN ENGINEER/
	(G) NOTIFICATION OF LOCAL GOVERNMENTAL AUTHORITIES. IF THE DISCHARGE OR SPILL CREATES AN IMMINENT HEALTH THREAT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND COOPERATE WITH LOCAL EMERGENCY AUTHORITIES (FIRE DEPARTMENT, FIRE MARSHAL, LAW ENFORCEMENT AUTHORITY,	TLE	13.	OF	NTRACTOR IS TO EXPOSE ALL TIE-IN POINTS TO VERIFY ELEVATIONS AND NOTIFY ENGINEER OF ANY DIFFERENCES IN HORIZONTAL VERTICAL LOCATION.	PREPARATION WORK. ENVIRONMENTAL.INSPE REVIEWED BY COA EV I	THE OWNER CTIONS@AUSTIN ISPECTOR AT TH	OR OWNER'S REPRESENTATIVE SH EXAS.GOV, AT LEAST THREE DAYS PRI S TIME.	HALL NOTIFY THE DEN OR TO THE MEETING DAT
	HEALTH AUTHORITY, OR LOCAL EMERGENCY PLANNING COMMITTEE (LEPC), AS APPROPRIATE). THE RESPONSIBLE PARTY WILL COOPERATE WITH THE LOCAL EMERGENCY AUTHORITY IN PROVIDING SUPPORT TO IMPLEMENT APPROPRIATE NOTIFICATION AND RESPONSE ACTIONS. THE LOCAL EMERGENCY AUTHORITY, AS NECESSARY, WILL IMPLEMENT ITS EMERGENCY MANAGEMENT PLAN, WHICH MAY INCLUDE NOTIFYING AND EVACUATING AFFECTED PERSONS. IN THE ABSENCE OF A LOCAL EMERGENCY AUTHORITY, THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO NOTIFY POTENTIALLY	TLE COA P-4	14. 15.	5. RC	RIFY THAT ALL OF THE POSSIBLE UTILITIES HAVE BEEN MARKED BY ONE CALL AND BRING TO THE ATTENTION OF THE ENGINEER ANY CREPANCIES OR POSSIBLE PROBLEMS OBSERVED. UGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET	THE REVIEWING ENGIN BE MADE AS FIELD REV TO CORRECT CONTROL	er, environme sions to the e inadequacies.	LOCATIONS OF CONTROLS OR FENCES ITAL SPECIALIST OR CITY ARBORIST AS . ROSION AND SEDIMENTATION CONTROL	APPROPRIATE. MAJOR RE\ PLAN MAY BE REQUIRED E
{	AFFECTED PERSONS OF THE IMMINENT HEALTH THREAT. (H) NOTIFICATION TO PROPERTY OWNER AND RESIDENTS. AS SOON AS POSSIBLE, BUT NO LATER THAN TWO WEEKS AFTER DISCOVERY OF SPILL/DISCHARGE. CONTRACTOR SHALL REASONABLY ATTEMPT TO NOTIFY THE OWNER (IF IDENTIFIABLE) OR OCCUPANT OF THE PROPERTY UPON WHICH DISCHARGE/SPILL OCCURRED AS WELL AS THE OCCUPANTS OF ANY PROPERTY THAT			OU CF ER	ST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE TLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE DRAINAGE ITERIA MANUAL AND/OR THE ENVIRONMENTAL CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM OSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER ALITY POND(S).	CERTIFIED PROFESSIO CERTIFIED INSPECTOR INTERVALS AND AFTER CONTROLS AND FENCE	AL IN EROSION A OF SEDIMENTAT ONE-HALF (½) IN S SHALL IMMEDIA	IVIDE A CERTIFIED INSPECTOR THAT IS ND SEDIMENT CONTROL (CPESC OR CP ON AND EROSION CONTROLS (CISEC (CH OR GREATER RAINFALL EVENTS TO I FELY MAKE ANY NECESSARY REPAIRS TO NORTH FE NEDITOR THR OPLICAD.	ESC - IT), CERTIFIED EROS OR CISEC - IT) CERTIFICA NSURE THAT THEY ARE FL D DAMAGED AREAS. SILT A
	THE CONTRACTOR REASONABLY BELIEVES IS ADVERSELY AFFECTED. (I) ADDITIONAL NOTIFICATION REQUIRED. NOTICE PROVIDED UNDER THIS SECTION SATISFIES THE FEDERAL REQUIREMENT TO NOTIFY THE STATE EMERGENCY RESPONSE COMMISSION IN THE STATE OF TEXAS. HOWEVER, COMPLYING WITH THE NOTIFICATION REQUIREMENTS SET FORTH IN THIS SECTION DOES NOT RELIEVE, SATISFY, OR FULFILL ANY OTHER	COA P-4	16.	6. TE	ALT FOND(S). MPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION DIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.	7. PRIOR TO FINAL ACCE SEDIMENT REMOVED FI SPOIL DISPOSAL SITES.	TANCE BY THE (OM THE WATER)	INSTALLED HEIGHT OF THE CONTROL WH ITY, HAUL ROADS AND WATERWAY CRU (AY AND THE AREA RESTORED TO THE C	OSSINGS CONSTRUCTED I DRIGINAL GRADE AND REVI
	NOTIFICATION REQUIREMENTS IMPOSED BY PERMIT OR OTHER LOCAL, STATE, OR FEDERAL LAW. THE CONTRACTOR SHOULD CONTACT THE LOCAL AUTHORITIES TO DETERMINE IF ANY ADDITIONAL NOTIFICATION IS REQUIRED AND SHOULD CONSULT WITH THE TECQ AS TO WHETHER ANY ADDITIONAL STATE OR FEDERAL NOTIFICATION IS REQUIRED. (J) ALTERNATIVE NOTIFICATION PLANS.	COA P-4	17.	,	THIS PLAN IS PHASED, STEPS 14-25 ARE TO BE REPEATED FOR EACH PHASE) GIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.	CONSISTENTLY RECEIVENVIRONMENTAL INSPE	ES WATER DURI	HE ROCK SUBSTRATE IS DISCOVERED NG ANY RAIN EVENT. AT THIS TIME IT IER INVESTIGATION. IN ADDITION, IF THE DS CONSERVATION PRESERVE (BCCP) BY	IS THE RESPONSIBILITY PROJECT SITE IS LOCATE
	(1) CONTRACTORS IN CHARGE OF ACTIVITIES AND FACILITIES MAY SUBMIT AND IMPLEMENT AN ALTERNATIVE NOTIFICATION PLAN. THIS ALTERNATIVE NOTIFICATION PLAN SHALL COMPLY WITH THE TEXAS WATER CODE, SECTION 26.039. CONTRACTORS SHALL OBTAIN THE TCEQ'S WRITTEN APPROVAL BEFORE IMPLEMENTING ANY ALTERNATIVE NOTIFICATION PLAN.	TLE			EAR AND ROUGH GRADE THE SITE.	A. ALL DISTURBED AF	EAS TO BE REVE	CONTROL: ALL DISTURBED AREAS SHALL GETATED ARE REQUIRED TO PLACE A MI ZONE OF EXISTING TREES.	
	(2) UPON APPROVAL OF THE TCEQ REGIONAL MANAGER, CONTRACTORS MAY PROVIDE THE INITIAL NOTIFICATION BY FACSIMILE TO THE REGIONAL OFFICE DURING NORMAL BUSINESS HOURS. REPORTABLE QUANTITIES (RQ)	TLE	19.	INS	ECK ENVIRONMENTAL CONTROLS AND KEEP LOG OF OBSERVATIONS AS REQUIRED IN THE SWP3. TEMPORARY CONTROLS TO BE PECTED AND MAINTAINED EVERY WEEK AND PRIOR TO ANTICIPATED RAINFALL EVENTS AND AFTER RAINFALL EVENTS OF 0.5 INCHES MORE. IF DISTURBED AREA IS NOT TO BE WORKED FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY VEGETATION, MULCH, TARP OR REVEGETATION MATTING.	AN OWNER/ENGINE AND A WRITTEN S	ER MAY PROPOS TATEMENT FROM	TING SITE IS ENCOURAGED FOR U USE OF ONSITE SALVAGED TOPSOIL W A QUALIFIED PROFESSIONAL IN SOIL ECIFYING WHAT, IF ANY, SOIL AMENDMEI	HICH DOES NOT MEET THE S, LANDSCAPE ARCHITEC
Г	(A) HAZARDOUS SUBSTANCES. THE REPORTABLE QUANTITIES FOR HAZARDOUS SUBSTANCES SHALL BE: (1) FOR SPILLS/DISCHARGES ONTO LANDTHE QUANTITY DESIGNATED AS THE FINAL REPORTABLE QUANTITY (RQ) IN TABLE 302.4 IN 40 CFR SECTION 302.4;							LED INTO THE EXISTING ONSITE T STURBED BY CONSTRUCTION SHALL BE	
	 (2) FOR SPILLS OR DISCHARGES INTO WATERS IN THE STATETHE QUANTITY DESIGNATED AS THE FINAL RQ IN TABLE 302.4 IN 40 CFR SECTION 302.4, EXCEPT WHERE THE FINAL RQ IS GREATER THAN 100 POUNDS IN WHICH CASE THE RQ SHALL BE 100 POUNDS. (B) OIL, PETROLEUM PRODUCT, AND USED OIL. (1) THE RQ FOR CRUDE OIL AND OIL OTHER THAN THAT DEFINED AS PETROLEUM PRODUCT OR USED OIL SHALL BE: (A) FOR SPILLS OR DISCHARGES ONTO LAND-210 GALLONS (FIVE BARRELS); OR 	TLE	20.	21. RC RC	LIVER APPROVED ROUGH CUT SHEETS TO THE CONSTRUCTION INSPECTION DIVISION OF DPWT PRIOR TO CLEARING AND CRUBBING. UGH GRADE STREETS (IF APPLICABLE). NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME ONCE STREETS ARE UGH CUT, THE GEO-TECHNICAL ENGINEER IS TO FIELD VERIFY PAVEMENT DESIGN IS APPROPRIATE, AND MODIFY COMMENDATIONS ACCORDINGLY.	OATS (AVENA SATIVA REQUIRING A COOL SE	0 MARCH 1, SEE) AT 4.0 POUNDS SON COVER CRC	NING SHALL BE WITH OR INCLUDE A COO PER ACRE, CEREAL RYE GRAIN (<i>SECF</i> P DOES NOT UTILIZE ANNUAL RYEGRASS	ALE CEREALE) AT 45 POU
	 (B) FOR SPILLS OR DISCHARGES DIRECTLY INTO WATER IN THE STATEQUANTITY SUFFICIENT TO CREATE A SHEEN. (2) THE RQ FOR PETROLEUM PRODUCT AND USED OIL SHALL BE: (A) EXCEPT AS NOTED IN SUBPARAGRAPH (B) OF THIS PARAGRAPH, FOR SPILLS OR DISCHARGES ONTO LAND25 GALLONS; (B) FOR SPILLS OR DISCHARGES TO LAND FROM PST EXEMPTED FACILITIES210 GALLONS (FIVE BARRELS); OR 	TLE	22.		STALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT. DELIVER STORM SEWER (IF APPLICABLE) CUT SHEETS TO THE CONSTRUCTION MISPECTION DIVISION OF DPWT.		EMBER 14, SEED	 NG SHALL BE WITH HULLED BERMUDA AT ' IF WARRANTED BY A SOIL TEST AND S	
	(C) FOR SPILLS OR DISCHARGES TO LAND FROM PST EXEMPTED FACILITIES-210 GALLONS (FIVE BARRELS), OR (C) FOR SPILLS OR DISCHARGES DIRECTLY INTO WATER IN THE STATE–QUANTITY SUFFICIENT TO CREATE A SHEEN. (C) INDUSTRIAL SOLID WASTE OR OTHER SUBSTANCES. THE RQ FOR SPILLS OR DISCHARGES INTO WATER IN THE STATE SHALL BE 100 POUNDS.			b.	BEGIN INSTALLATION OF STORM SEWER HNES. UPON COMPLETION RESTORE AS MUCH DISTURBED AREA AS POSSIBLE, RTICULARLY CHANNELS AND LARGE OPEN AREAS.	B. HYDROMULCH SHA	L COMPLY WITH	GROWTH OR DORMANCY. CHEMICAL FER ABLE 1, BELOW. ALL BE ACCEPTABLE WHEN THE GRASS I	
	ACTIONS REQUIRED (A) THE CONTRACTOR SHALL IMMEDIATELY ABATE AND CONTAIN THE SPILL OR DISCHARGE AND COOPERATE FULLY WITH THE EXECUTIVE DIRECTOR AND THE	TLE	23.		LIVER FINAL GRADE CUT SHEETS TO THE CONSTBUCTION INSPECTION DIVISION OF DPWT.			N FOR TEMPORARY STABILIZATION ARE U DING SHALL COMPLY WITH REQUIREMEN	
	LOCAL INCIDENT COMMAND SYSTEM. THE CONTRACTOR SHALL ALSO BEGIN REASONABLE RESPONSE ACTIONS WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING ACTIONS: (1) ARRIVAL OF THE CONTRACTOR OR RESPONSE PERSONNEL HIRED BY THE CONTRACTOR AT THE SITE OF THE DISCHARGE OR SPILL;	TLE	24.		GRADE STREETS TO SUBGRADE (IF APPLICABLE). NORK IS SITE PLAN:	TABLE 1: HYDROMUL MATERI		MPORARY VEGETATIVE STABII	LIZATION LONGEVITY
	 (2) INITIATING EFFORTS TO STOP THE DISCHARGE OR SPILL; (3) MINIMIZING THE IMPACT TO THE PUBLIC HEALTH AND THE ENVIRONMENT; (4) NEUTRALIZING THE EFFECTS OF THE INCIDENT; (5) REMOVING THE DISCHARGED OR SPILLED SUBSTANCES; AND (6) MANAGING THE WASTES. 	TLE	25. 26.	ST	SURE THAT ALL UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY FIRST COURSE BASE MATERIAL ON ALL REETS (AS APPLICABLE). MALL CURB AND GUTTER (IF APPLICABLE).	100% OR ANY BLE CELLULOSE, STI COTTON PLAN	AW AND/OR	70% OR OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL FIBERS	0 - 3 MONTHS
)	(6) MANAGING THE WASTES. (B) UPON REQUEST OF THE LOCAL GOVERNMENT RESPONDERS OR THE EXECUTIVE DIRECTOR, THE CONTRACTOR SHALL PROVIDE A VERBAL OR WRITTEN DESCRIPTION, OR BOTH, OF THE PLANNED RESPONSE ACTIONS AND ALL ACTIONS TAKEN BEFORE THE LOCAL GOVERNMENTAL RESPONDERS OR THE EXECUTIVE DIRECTOR ARRIVE. WHEN THE TCEQ ON-SCENE COORDINATOR REQUESTS THIS INFORMATION, IT IS SUBJECT TO POSSIBLE ADDITIONAL RESPONSE ACTION	TLE	21.	7. LA	Y FINAL BASE COURSE ON ALL STREETS (IF APPLICABLE).	(EXCEPT NO MU EXCEED 30%	LCH SHALL		
	REQUIREMENTS BY THE EXECUTIVE DIRECTOR. THE INFORMATION WILL SERVE AS A BASIS FOR THE EXECUTIVE DIRECTOR TO DETERMINE THE NEED FOR: (1) FURTHER RESPONSE ACTIONS BY THE CONTRACTOR; (2) INITIATING STATE FUNDED ACTIONS FOR WHICH THE CONTRACTOR MAY BE HELD LIABLE TO THE MAXIMUM EXTENT ALLOWED BY LAW; AND	TLE	28.		Y ASPHALT. MPLETE ALL UNDERGROUND INSTALLATIONS WITHIN THE R.O.W.	PERMANENT VEGETATIVE S		L	ARY STABILIZATION ONLY
	(3) SUBSEQUENT REPORTS ON THE RESPONSE ACTIONS. (C) EXCEPT FOR DISCHARGES OR SPILLS OCCURRING DURING THE NORMAL COURSE OF TRANSPORTATION ABOUT WHICH CARRIERS ARE REQUIRED TO FILE A WRITTEN REPORT WITH THE U.S. DEPARTMENT OF TRANSPORTATION UNDER 49 CFR SECTION 171.16, THE CONTRACTOR SHALL SUBMIT WRITTEN INFORMATION, SUCH AS A LETTER, DESCRIBING THE DETAILS OF THE DISCHARGE OR SPILL AND SUPPORTING THE ADEQUACY OF THE RESPONSE ACTION, TO THE APPROPRIATE TCEQ REGIONAL MANAGER WITHIN 30 WORKING DAYS OF THE DISCOVERY OF THE REPORTABLE DISCHARGE OR SPILL. THE REGIONAL MANAGER HAS THE	TLE	30.	VE	STALL UNDERGROUND UTILITIES AND CONSTRUCT POND. NOTE: CONTACT ESD TO PERFORM VISUAL INSPECTION OF FIRE MAINS TO RIFY PIPE TYPE, SIZE, WRAPPED JOINTS, AND PROPER INSTALLATION OF THRUST BLOCKING. DO NOT BURY PIPES UNTIL SPECTION HAS BEEN CONDUCTED.	STABILIZATION IS DESIF ALTERNATIVELY, THE WARM-SEASON SEED T 2. FROM MARCH 2 TO SEP	ED, THE GRASSE COOL SEASON C PICALLY REQUIR TEMBER 14, SEED	S SHALL BE MOWED TO A HEIGHT OF LES DVER CROP CAN BE MIXED WITH BERI ES SOIL TEMPERATURES OF 60 TO 70 DER NG SHALL BE WITH HULLED BERMUDA A	STHAN ONE-HALF (½) INC MUDAGRASS OR NATIVE S GREES. T A RATE OF 45 POUNDS PI
/	DISCRETION TO EXTEND THE DEADLINE. THE DOCUMENTATION SHALL CONTAIN ONE OF THE FOLLOWING ITEMS: (1) A STATEMENT THAT THE DISCHARGE/SPILL RESPONSE ACTION HAS BEEN COMPLETED AND A DESCRIPTION OF HOW THE RESPONSE ACTION WAS CONDUCTED SHALL INCLUDE THE INITIAL REPORT INFORMATION REQUIRED BY SECTION 327.3(C) OF THIS TITLE (RELATING TO NOTIFICATION	TLE	31. 32.		NSTRUCT BUILDINGS. VE THE SITE.	PLANT SEED MIX CONFO A. FERTILIZER USE SH	RMING TO ITEM 6 ALL FOLLOW THE	ASS AND IS CONSIDERED PERMANENT EI 04S OR 609S. RECOMMENDATION OF A SOIL TEST. SEI UBMITTAL OF A PESTICIDE AND FERTILIZ	E ITEM 606S, FERTILIZER. A
	REQUIREMENTS). THE EXECUTIVE DIRECTOR MAY REQUEST ADDITIONAL INFORMATION. APPROPRIATE RESPONSE ACTIONS AT ANY TIME FOLLOWING THE DISCHARGE/SPILL INCLUDE USE OF THE TEXAS RISK REDUCTION PROGRAM RULES IN CHAPTER 350 OF THIS TITLE (RELATING TO TEXAS RISK REDUCTION PROGRAM).	TLE	33.		ISH GRADE THE SITE INCLUDING ADJUSTING AND FINISHING DRAINAGE FEATURES, PONDS, UTILITIES, AND RETAINING WALL RUCTURES.		RD TEMPLATE CO	NTACT THE CITY OF AUSTIN'S IPM COOR	
	(2) A REQUEST FOR AN EXTENSION OF TIME TO COMPLETE THE RESPONSE ACTION, ALONG WITH THE REASONS FOR THE REQUEST. THE REQUEST SHALL ALSO INCLUDE A PROJECTED WORK SCHEDULE OUTLINING THE TIME REQUIRED TO COMPLETE THE RESPONSE ACTION. THE EXECUTIVE DIRECTOR MAY GRANT AN EXTENSION UP TO SIX MONTHS FROM THE DATE THE SPILL OR DISCHARGE WAS REPORTED. UNLESS OTHERWISE NOTIFIED BY THE APPROPRIATE REGIONAL MANAGER OR THE EMERGENCY RESPONSE TEAM, THE CONTRACTOR SHALL PROCEED ACCORDING TO THE TERMS OF THE PROJECTED WORK SCHEDULE. (3) A STATEMENT THAT THE DISCHARGE OR SPILL RESPONSE ACTION HAS NOT BEEN COMPLETED NOR IS IT EXPECTED TO BE COMPLETED WITHIN THE	COA P-4	34.	CC CC PR	THE BARTON SPRINGS ZONE, THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR WILL SCHEDULE A MID-CONSTRUCTION NFERENCE TO COORDINATE CHANGES IN THE CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF THE EROSION NTROL PLAN AFTER POSSIBLE CONSTRUCTION ALTERATIONS TO THE SITE. PARTICIPANTS SHALL INCLUDE THE CITY INSPECTOR, OJECT ENGINEER, GENERAL CONTRACTOR AND ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR. THE ANTICIPATED MPLETION DATE AND FINAL CONSTRUCTION SEQUENCE AND INSPECTION SCHEDULE WILL BE COORDINATED WITH THE APPROPRIATE	SUPPLEMENTAL W SEEDBED IN A MC FREQUENCIES DET AND WATER CONSI D. PERMANENT EROS	ATER. APPLY THE IST CONDITION I ERMINED BY A LIC RVATION INITIATI ON CONTROL SH.	ALL BE ACCEPTABLE WHEN THE GRASS H	AREAS WITHOUT CAUSIN WATERING SHALL COMPL PROFESSIONAL, AND AS / HAS GROWN AT LEAST 11/2
	MAXIMUM ALLOWABLE SIX MONTH EXTENSION. THE STATEMENT SHALL EXPLAIN WHY COMPLETION OF THE RESPONSE ACTION IS NOT FEASIBLE AND INCLUDE A PROJECTED WORK SCHEDULE OUTLINING THE REMAINING TASKS TO COMPLETE THE RESPONSE ACTION. THIS INFORMATION WILL ALSO SERVE AS NOTIFICATION THAT THE RESPONSE ACTIONS TO THE DISCHARGE OR SPILL WILL BE CONDUCTED UNDER THE TEXAS RISK REDUCTION PROGRAM RULES IN CHAPTER 350 OF THIS TITLE (RELATING TO TEXAS RISK REDUCTION PROGRAM).	COA P-4	35.	35. PE	'Y INSPECTOR. RMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR /CONCURRENTLY WITH REVEGETATION OF SITE.	ARE NO BARE SPO E. WHEN REQUIRED, I	S LARGER THAN ATIVE PLANT SEE	ATIVE MIX SO THAT ALL AREAS OF A SIT 10 SQUARE FEET. DING SHALL COMPLY WITH REQUIREMEN RMANENT VEGETATIVE STABIL	ITS OF THE CITY OF AUSTIN
	THE OWNER OR OPERATOR OF A FACILITY FROM WHICH A SPILL EMANATES;	COA P-4	36.		MPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.	MATERIAL BONDED FIBER MATRIX (BFM)	D		LONGEVITY
	 THE OWNER, OPERATOR, OR DEMISE CHARTERER OF A VESSEL FROM WHICH A SPILL EMANATES; OR ANY OTHER PERSON WHO CAUSES, SUFFERS, ALLOWS, OR PERMITS A SPILL OR DISCHARGE. NOTIFICATION, EMERGENCY RESPONSE, SPILL CLEANUPS THAT TAKE LESS THAN 180 DAYS:	COA P-4	37.	EN DE	ON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN GINEER'S LETTER OF CONCURRENCE BEARING THE ENGINEER'S SEAL, SIGNATURE AND DATE TO THE DEVELOPMENT SERVICES PARTMENT INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL COMPLIANCE WITH THE PROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.	10% TACKIFIER		6 MC	INTHS
	 SEE <u>HTTPS://WWW.TCEQ.TEXAS.GOV/RESPONSE/INDEX.HTML</u>. MOST SPILLS REQUIRING LESS THAN 6 MONTHS OF CLEANUP ARE REVIEWED BY THE TCEQ AUSTIN REGIONAL OFFICE STAFF AT (512) 339-2929 (MONDAY-FRIDAY, 8 A.M 5 P.M.) OR STATE OF TEXAS SPILL-REPORTING HOTLINE AT (800) 832-8224 (24-HOURS) 	COA P-4	38.	CC SU	ON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF NCURRENCE TO THE DEVELOPMENT SERVICES DEPARTMENT INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN BSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY E APPROPRIATE CITY INSPECTOR.	FIBER REINFORCED MATRIX (BFM) 10. DEVELOPER INFORMAT	REINFO	C DEFIBRATED FIBERS 25% UP T RCING FIBERS OR LESS 10% TACKIFIER	O 12 MONTHS
	CLEANUPS REQUIRING MORE THAN 180 DAYS AND SPILLS THAT IMPACT GROUNDWATER MAY BE REFERRED FROM THE REGION OFFICE TO THE REMEDIATION DIVISION FOR OVERSIGHT. CONTACT: • THE TCEQ AUSTIN REGIONAL OFFICE AT (512) 339-2929, FOR TRAVIS COUNTY OR • THE TCEQ REMEDIATION DIVISION. ENVIRONMENTAL CLEANUP SECTIONS AT:	COA P-4	39.	39. AF TH	TER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE E TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM	OWNER: JMA ENT PHONE #: .	TY, LLC	ICTIN TV 70704	
)	THE TCEQ REMEDIATION DIVISION, ENVIRONMENTAL CLEANUP SECTIONS AT: (512) 239-2200.	TLE	40.		MOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.	ADDRESS: 4203 SP OWNER'S REPRESE PHONE #: 512-328-1	NTATIVE RESPON	JSTIN, TX 78731 SIBLE FOR PLAN ALTERATIONS: THOMPS	Son land engineering, L
	 TLE GENERAL DRAINAGE AND GRADING NOTES 1) UNLESS OTHERWISE SPECIFIED, ALL FINISHED EARTHEN SLOPES ARE TO BE FINE GRADED TO PROVIDE A RELATIVELY UNIFORM SURFACE WITH NO ROCKS GREATER THAN 1-INCH IN DIAMETER, NO CLODS OF SOIL GREATER THAN 2-INCHES IN DIAMETER, AND NO DEVIATIONS FROM AN OTHERWISE SMOOTH SURFACE GREATER THAN 4 INCHES IN HEIGHT OR DEPTH WITH NO AREAS OF STANDING WATER. 	TLE COA P-4 S		CC	A CZP OR WPAP WAS REQUIRED, WITHIN 30 DAYS OF COMPLETION, A TEXAS PE MUST CERTIFY IN WRITING THAT THE BMPS WERE NSTRUCTED AS DESIGNED AND THAT CERTIFICATION PROVIDED TO THE TCEQ AUSTIN REGIONAL OFFICE.	PERSON OR FIRM F	ESPONSIBLE FOR	EROSION/SEDIMENTATION CONTROL MA	
	 ALL FINISHED SLOPES OF A GRADE OF 3:1 OR GREATER ARE TO BE COVERED WITH A JUTE MAT, CURLEX MATTING, OR SIMILAR PRODUCT AFTER SEEDING WITH HYDROMULCH AND THE JUTE ANCHORED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. 					PHONE #: TBD		F SURPLUS EXCAVATED MATERIAL FROM	
	3) UNLESS OTHERWISE SPECIFIED, ALL CULVERTS 18-INCH AND LARGER SHALL BE ASTM C76 REINFORCED CONCRETE PIPE (RCP) AND ALL CULVERTS LESS THAN 18-INCHES IN DIAMETER SHALL BE SCHEDULE 40 PVC. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE PIPE IN PAVEMENT AREAS SHALL BE CLASS IV. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE PIPE IN NON-TRAFFIC AREAS SHALL BE CLASS III.							8 HOURS PRIOR WITH THE LOCATION AN ILE NO. <u>R161-17.03</u> , 3-2-2017; RULE N	

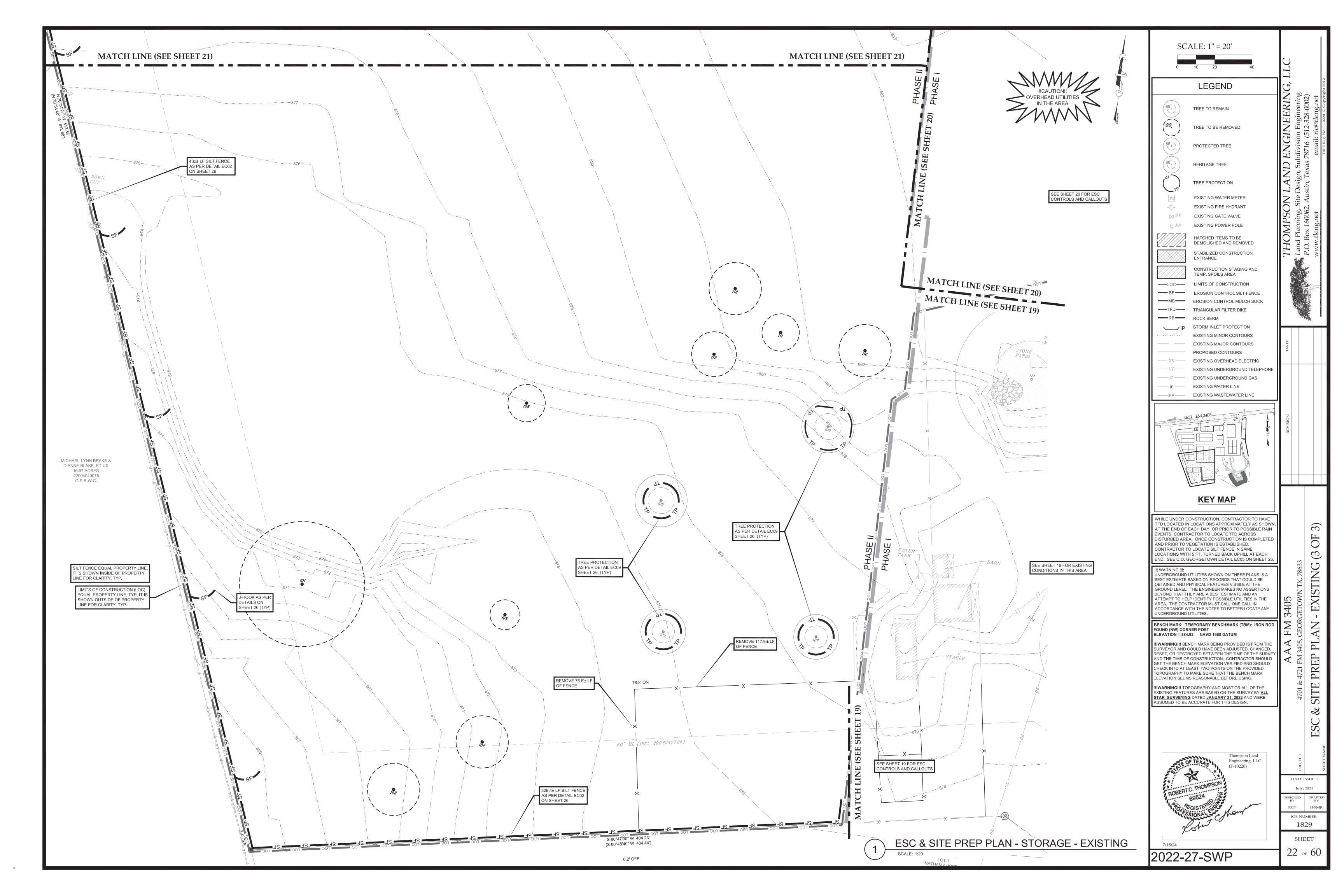
4) UNLESS OTHERWISE SHOWN, ALL TRICKLE CHANNELS AND PIPES SHALL HAVE A MINIMUM SLOPE OF 0.5 PERCENT AND ALL EARTHEN SLOPES

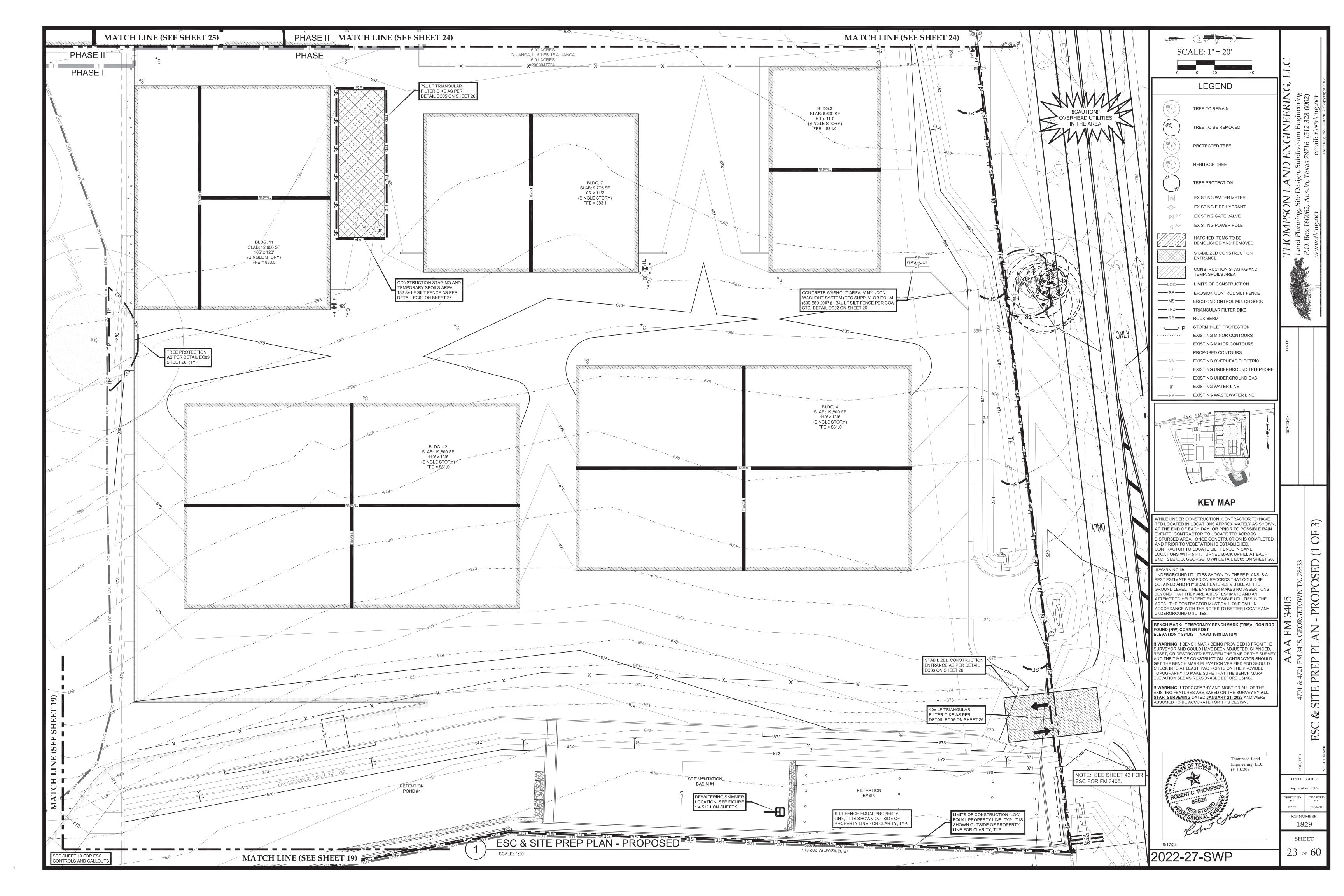
EE/NATURAL AREA PROTEC	CTIVE FENCING, AND CONDUCT "PRE-C	ONSTRUCTION" TREE FERTILIZATION (IF	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY - WATER POLLUTION ABATEMENT PLAN GENERAL CONSTRUCTION NOTES TCEQ-0592 (REVISED JULY 15, 2015)				
OR EXCAVATION). RDANCE WITH THE ENVIRON	MENTAL CRITERIA MANUAL AND THE AP	PPROVED EROSION AND SEDIMENTATION	 A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE: 				
TRUCTION, INCLUDING AT T REVIEWERS AS WELL AS CO	HE PRE-CONSTRUCTION MEETING. THE	CHECKLIST BELOW CONTAINS THE BASIC	 THE NAME OF THE APPROVED PROJECT; THE ACTIVITY START DATE; AND THE CONTACT INFORMATION OF THE PRIME CONTRACTOR. 	Ų			
DWING:			2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL.				12
SION STRUCTURES. RVED.			DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER. 3. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CAVITY, SINK HOLE, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES	Ŋ	<u>60</u> -		ght 20
IP (E.G., SILT FENCE, SEDIMI	ENT BASIN, ETC.).		NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES MAY NOT BE RESUMED UNTIL THE TCEQ HAS		eering-0002)	.net	Copyri
			REVIEWED AND APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY. 4. NO TEMPORARY OR PERMANENT HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE.	EEF	igineerin 328-0002	ric@tleng.net	220 ©
L OF BORROW MATERIALS, A	AND DESCRIPTION OF ON-SITE PERMANE	ENT SPOILS DISPOSAL AREAS, INCLUDING	DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE. 5. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE	Z	En 12-	ic@t	o. F-102
NING THE FOLLOWING ELEME SEDIMENT BASINS, THEN TE	ENTS: EMPORARY STABILIZATION, THEN PERMA	ANENT, ETC.)	PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.	B	ision 6	ر) را ail:	Reg. N
LIZATION MEASURES TO BE			 ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC. 	EZ	ubdivi s 7871.	email:	TBPE
ROLS			 SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS NOT LATER THAN WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED 	Ω	Sul	, cb/	
ACTIVITY AS DESCRIBED BEI	LOW:		OFFSITE. 9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR	Z			
IL			STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.	Ľ	Desi	ידוכן	
			10. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME	Z	Site	5	
			PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE. 11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:	SC	nning, 3 160062		
			 THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION 	I	lannin _x x 1600	reng.	
			OF THE SITE; AND - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED. 12. THE HOLDER OF ANY APPROVED EDWARD AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND	Q	and Plai		
IONS AND DETAILS AND REF	ER TO THEM.		OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING: A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO DOINGS DAMA DEDING SERVICE TRADICINE AND DAVES AND DAVES STRUCTURES.	Ë	Lanc	MM MM	
A MANUAL 1.4. I ACCORDANCE WITH THE C	CITY OF AUSTIN STANDARD NOTES FOR	TREE AND NATURAL AREA PROTECTION	PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES; B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;	j		ş:	
		TAL INSPECTOR AFTER INSTALLATION OF PLICABLE) PRIOR TO BEGINNING ANY SITE	C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.		-	<i>.</i> ,	
		NT, 512-974-2278 OR BY EMAIL AT PDES SWPPP (IF REQUIRED) SHOULD BE	AUSTIN REGIONAL OFFICE SAN ANTONIO REGIONAL OFFICE 12100 PARK 35 CIRCLE, BUILDING A 14250 JUDSON ROAD AUSTIN, TEXAS 78753-1808 SAN ANTONIO, TEXAS 78233-4480				
S APPROPRIATE. MAJOR RE	EVISIONS MUST BE APPROVED BY AUTH	A REVISION AND MUST BE APPROVED BY ORIZED COA STAFF. MINOR CHANGES TO	PHONE (512) 339-2929 PHONE (210) 490-3096 FAX (512) 339-3795 FAX (210) 545-4329				
		DURING THE COURSE OF CONSTRUCTION	THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.				
CPESC - IT), CERTIFIED ERC C OR CISEC - IT) CERTIFIC	DSION, SEDIMENT AND STORMWATER - I CATION TO INSPECT THE CONTROLS A	NSPECTOR (CESSWI OR CESSWI - IT) OR ND FENCES AT WEEKLY OR BI-WEEKLY (S) RESPONSIBLE FOR MAINTENANCE OF	TLE EROSION CONTROL NOTES:				
TO DAMAGED AREAS. SILT WHICHEVER IS LESS.	ACCUMULATION AT CONTROLS MUST B	E REMOVED WHEN THE DEPTH REACHES	PART A: 1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).	DATE			
		ESS MUST BE REMOVED, ACCUMULATED IS SHALL BE DISPOSED OF IN APPROVED	 THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES IN ACCORDANCE WITH THE ADDITIONAL NOTES FOR SW3P PLANS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. 	DA			
IT IS THE RESPONSIBILITY	OF THE PROJECT MANAGER TO IMM	FROM WITHIN THE SUBSTRATE AND/OR IEDIATELY CONTACT A CITY OF AUSTIN IE PROJECT MANAGER MUST NOTIFY THE	3. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS; ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A LOCAL ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION.		_		╞
	intytx.gov. CONSTRUCTION ACTIVITIES W		PART B:				
		CATION ITEM NO. 601S.3(A)]. DO NOT ADD	PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW. A. UNLESS DIRECTED OTHERWISE BY THE OWNER, A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE				
WHICH DOES NOT MEET TH		TH IN 601S. ION 601S BY PROVIDING A SOIL ANALYSIS THE ONSITE TOPSOIL WILL PROVIDE AN	CHANNELS (EXCEPT ROCK) AND 1-INCH OF TOPSOIL IN OTHER AREAS. B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:				
MENTS ARE REQUIRED.	COR TILLER TO CREATE A WELL-		BROADCAST SEEDING: 1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SF OF UNHULLED BERMUDA AND 7	NO			
E TOPSOIL WITH A DISC BE AS FOLLOWS:	, OK HELEK TO CREATE A WELL-	BLENDED MATERIAL.	POUNDS PER 1000 SF OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.	REVISION			
		RUM SMITHII) AT 5.6 POUNDS PER ACRE,	WITH 85% GERMINATION.				
,		ENSURE THAT ANY SEED APPLICATION PERENNE). COOL SEASON COVER CROPS	 OTHER REQUIREMENTS: A. FERTILIZER SHALL BE A PELLETED OR GRANULAR SLOW RELEASE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1 POUND PER 1000 SF. 				
SHALL CONFORM TO ITEM		SHOULD NOT OCCUR WHEN RAINFALL IS	B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SF.				
	LIED IN THE CRITICAL WATER QUALITY Z		HYDRAULIC SEEDING: 1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000 SF OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SF OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.				
E UNIFORMLY VEGETATED,	AND PROVIDED THERE ARE NO BARE SP	% TOTAL COVERAGE SO THAT ALL AREAS POTS LARGER THAN 10 SQUARE FEET. AND STANDARD SPECIFICATION 604S OR	2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SF WITH A PURITY OF 95%				
BILIZATION	THE ENVIRONMENTAL ONLEND WANDAL,		WITH 85% GERMINATION. 3. OTHER REQUIREMENTS:				
LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES	 A. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT A RATE OF 1.5 POUNDS PER 1000 SF. B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SF, WITH SOIL TACKIFIER AT A DATE OF 4.4 POLINDE DED AGORGE. 				
0 - 3 MONTHS	MODERATE SLOPES; FROM FLAT TO 3:1	1,500 TO 2,000 LBS PER ACRE	RATE OF 1.4 POUNDS PER 1000 SF. C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO				
5	FROMFLATIO 3.1		MONTHS. RAINFALL OCCURRENCES OF « INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK. D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1« INCHES HIGH WITH 95% COVERAGE, PROVIDED				
			NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.				
		EXIST WHERE PERMANENT VEGETATIVE	TLE GENERAL WATER AND WASTEWATER NOTES 1) THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, PAYMENT, PROVISION, OPERATION, MAINTENANCE, INSTALLATION, AND REMOVAL OF ANY REQUIRED TRENCH SAFETY SYSTEM.		78633		
ESS THAN ONE-HALF (1/2) IN	CH AND THE AREA SHALL BE RE-SEEDED	D IN ACCORDANCE WITH TABLE 2 BELOW. NDERSTANDING THAT GERMINATION OF	 MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, AND OTHER SUCH ITEMS LOCATED WITHIN ANY PROPOSED PAVEMENT OR SIDEWALK SHALL BE RAISED THE FINISHED GRADE PRIOR TO FINAL PAVING. UNLESS OTHERWISE SPECIFIED, PIPE MATERIAL FOR 4-INCH AND LARGER WATER LINES AND MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 200) 		TX, 7	S	
AT A RATE OF 45 POUNDS		A MINIMUM PURE LIVE SEED (PLS) OF 0.83. I ALSO BE ACCOMPLISHED WITH A NATIVE	OR DUCTILE IRON (AWWA C-110 OR AWWA C-153, MIN. CLASS 50 (CLASS 51 FOR 4-INCH)). UNLESS OTHERWISE SPECIFIED, PIPE MATERIAL FOR WATER LINES AND MAINS SMALLER THAN 4-INCHES SHALL BE PVC, SCHEDULE 80.	IJ		ΤE	ļ
		STICIDE) ON CITY-OWNED AND MANAGED	 UNLESS OTHERWISE SPECIFIED, PIPE MATERIAL FOR 4-INCH AND LARGER GRAVITY WASTEWATER LINES AND MAINS SHALL BE PVC (ASTM D2241 OR D3034, DR-35 OR BETTER) OR DUCTILE IRON (AWWA C-100, CLASS 50 OR BETTER). UNLESS OTHERWISE SPECIFIED. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C-900. CLASS 150 OR BETTER) OR 	3405	GEORGETOWN	Ď)
LIZER APPLICATION RECORD ORDINATOR.	J, ALONG WITH A CURRENT COPY OF TH	E APPLICATOR'S LICENSE. FOR CURRENT	DUCTILE IRON (AWWA C-100, CLASS 50). 6) ALL CAST IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH A MINIMUM OF 8-MIL POLYETHYLENE.		ORG	Z	1
ED AREAS WITHOUT CAUS	ING DISPLACEMENT OR EROSION OF T	IT CAN ULTIMATELY SURVIVE WITHOUT THE MATERIALS OR SOIL. MAINTAIN THE	 ALL VALVE BOXES AND COVERS SHALL BE CAST IRON. UNLESS OTHERWISE SPECIFIED, ALL MANHOLES SHALL BE IN ACCORDANCE WITH THE STANDARD DRAWINGS OF THE CITY OF AUSTIN EXCEPT THAT. UNLESS OTHERWISE SPECIFIED OR UNLESS LOCATED OVER THE EDWARDS AQUIFER. NO COATING SHALL BE REQUIRED. 	FM	-	AI	
		VATER CONSERVATION), AT RATES AND ITY AND CURRENT WATER RESTRICTIONS	9) THE CONTRACTOR SHALL PERFORM STERILIZATION OF ALL WATER LINES AT THEIR EXPENSE. THIS INCLUDES, BUT IS NOT LIMITED TO, EQUIPMENT, SUPPLIES, AND LABOR.	AA	3405,	ER]
		PERCENT FOR THE NON-NATIVE MIX, AND MLY VEGETATED, AND PROVIDED THERE	 THE CONTRACTOR SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER AND WATER PIPE AT THEIR EXPENSE. THIS INCLUDES, BUT IS NOT LIMITED TO, EQUIPMENT, SUPPLIES, AND LABOR. TESTS MAY INCLUDE LEAK TESTS, PRESSURE TESTS, AND MANDREL TESTS. THE CONTRACTOR SHALL CONTACT THE ESD TO PERFORM A VISUAL INSPECTION TO VERIFY THE PIPE TYPE, SIZE, WRAPPED JOINTS, AND PROPER 	A	FM	EN	, 1
	TIN ENVIRONMENTAL CRITERIA MANUAL,	ITEMS 604S AND 609S.	INSTALLATION OF THRUST BLOCKING. DO NOT BURY PIPES BEFORE INSPECTION HAS TAKEN PLACE. 12) THE OWNER OR HIS/HER REPRESENTATIVE IS TO BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY TESTING.		4721	Ц ()	•
SILIZATION LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES	 UNLESS OTHERWISE SPECIFIED, WATER AND FIRE LINES ARE TO FOLLOW FINISHED GRADE AT THE DEPTHS SHOWN ON THE PLANS. THE CONTRACTOR IS TO MINIMIZE EXCAVATION, WITHIN REASON, FOR WATER AND FIRE LINES. ALL ON-SITE UTILITIES SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE UPC AND UBC CODES. ALL OFF-SITE UTILITIES SHALL BE IN 		S	\cup	
			CONFORMANCE WITH THE UTILITY PROVIDER'S CODES. 15) WHERE A WATER LINE CROSSES A SANITARY SEWER LINE, THE WATER LINE IS TO BE A MINIMUM OF 6 INCHES ABOVE THE SEWER LINE (AS ADDITIONALLY ON FIGURE OVER THE CROSSES A SANITARY SEWER LINE, THE WATER LINE IS TO BE A MINIMUM OF 6 INCHES ABOVE THE SEWER LINE (AS		4701		
MONTHS	ON SLOPE UP TO 2:1 AND EROSIVE SOIL CONDITIONS	2,500 TO 4,000 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)	MEASURED OUT TO OUT). ADDITIONALLY, ONE "STICK" SHALL BE CENTERED OVER THE CROSSING (I.E. JOINTS SHALL BE A MINIMUM OF 9 FEET FROM THE CROSSING). WHERE A WATER LINE AND SEWER LINE ARE PARALLEL TO EACH OTHER, THE MINIMUM CLEARANCE BETWEEN WATER LINES AND SEWER LINES IS TO BE 9 FEET HORIZONTALLY BETWEEN OUTSIDE OF PIPE DIAMETERS AND THE WATER LINE SHALL BE AT LEAST 6				
P TO 12 MONTHS	ON SLOPE UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3,000 TO 4,500 LBS PER ACRE (SEE MANUFACTURERS	INCHES ABOVE THE SEWER LINE.				
	<u> </u>	RECOMMENDATIONS)					
							AME
IPSON LAND ENGINEERING,	LLC		Thompson Land Engineering, LLC (F-10220)		PROJECT		EET N
			(F-10220)				SH.
MAINTENANCE:	_		ROBERT C. THOMPSON		DATE ISS July, 20		
AINTENANCE:			ROBER 69524	DESIG BY		DRAFTE BY	ED
	TIFYING THE DEVELOPMENT SERVICES		SSIONAL MOM	RC	T OB NUM	JH/MF /IBER	R
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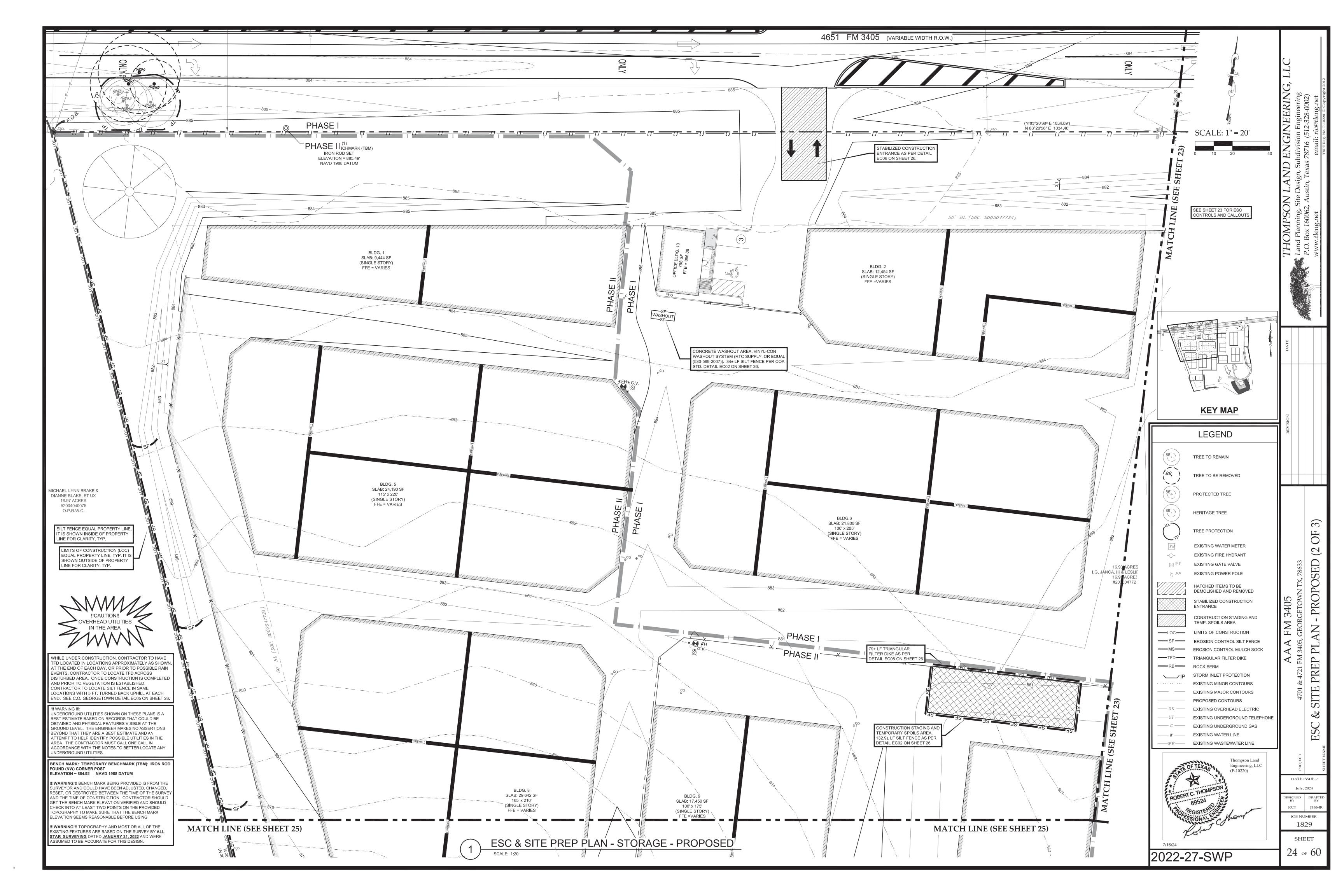


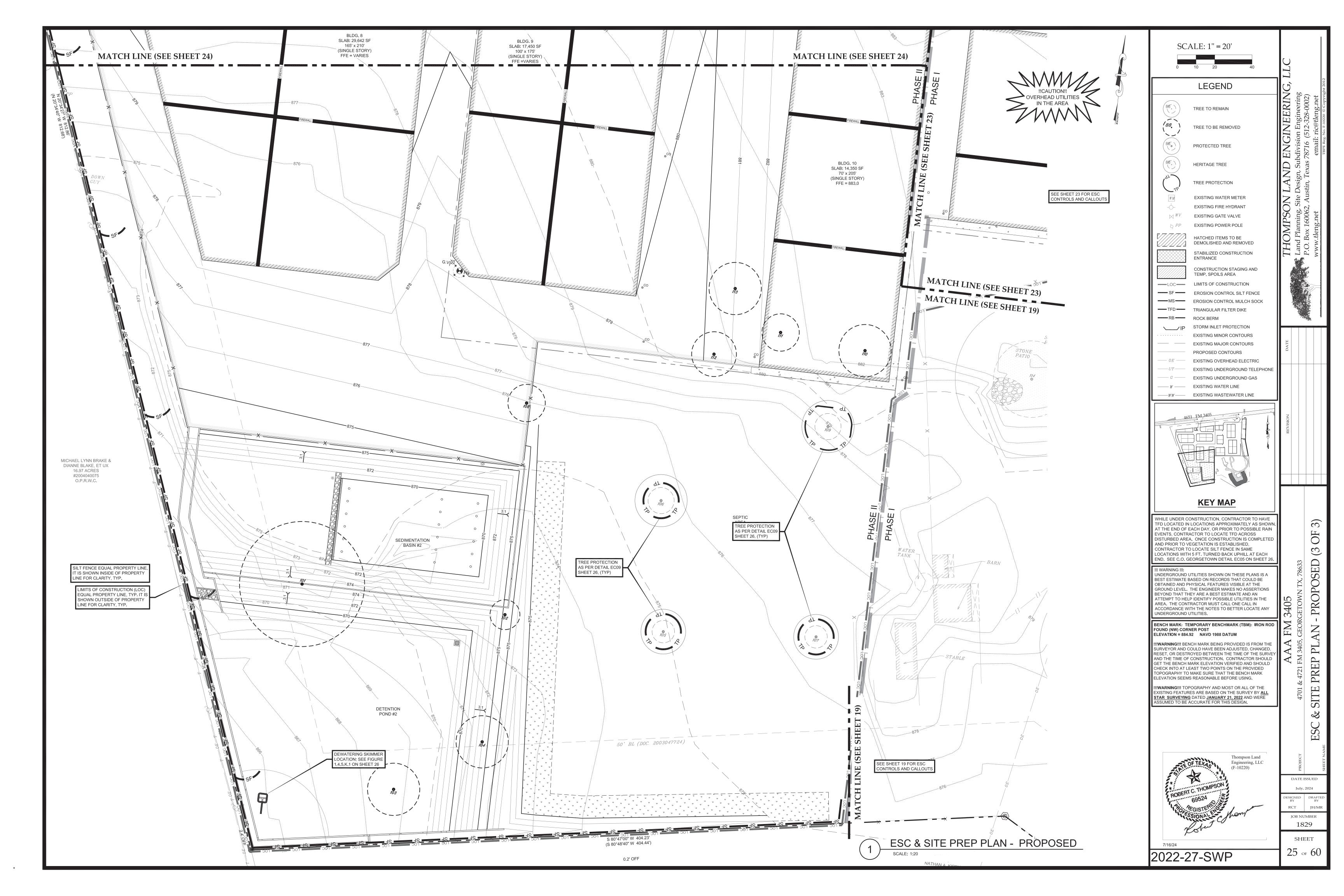


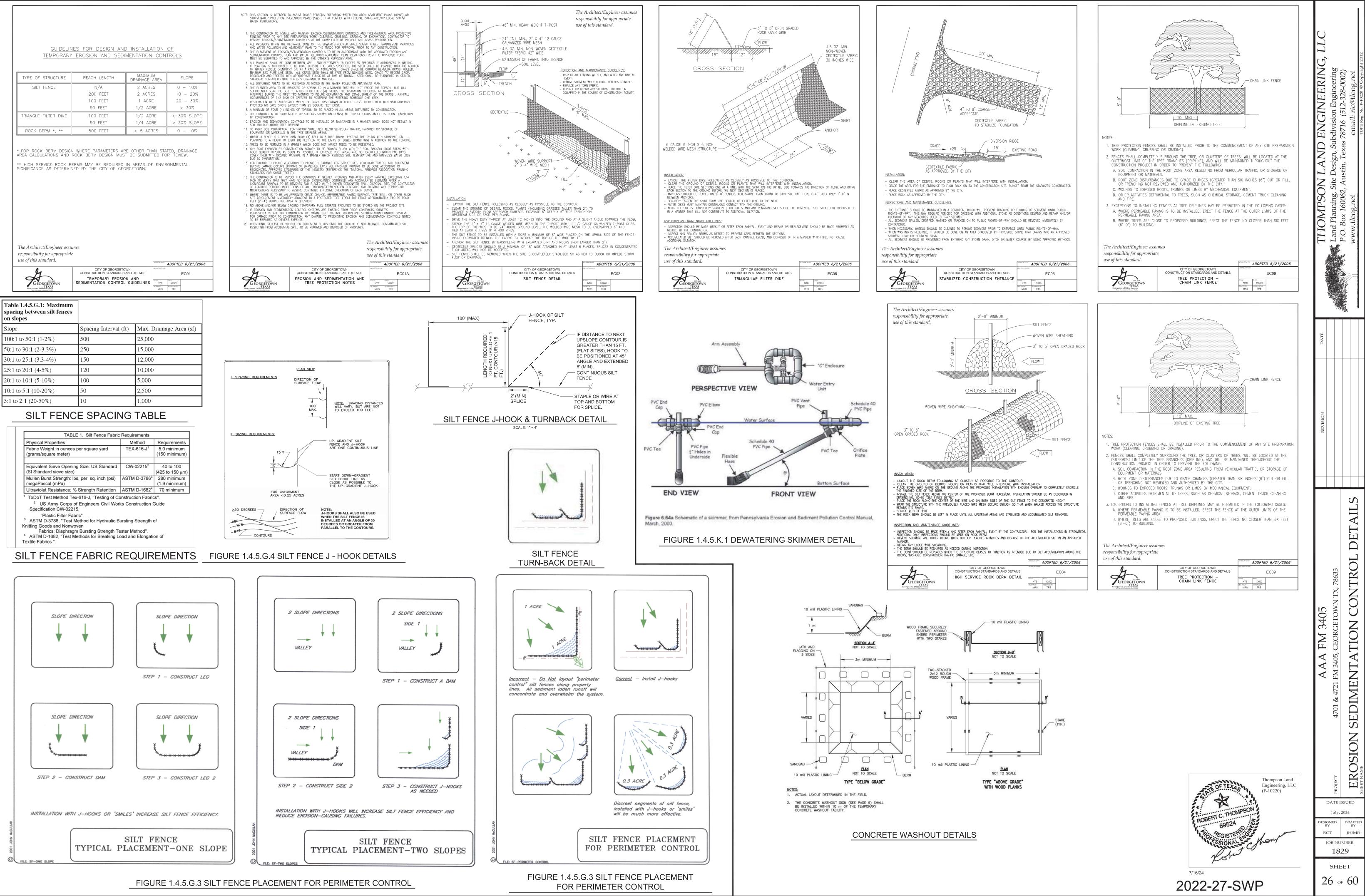


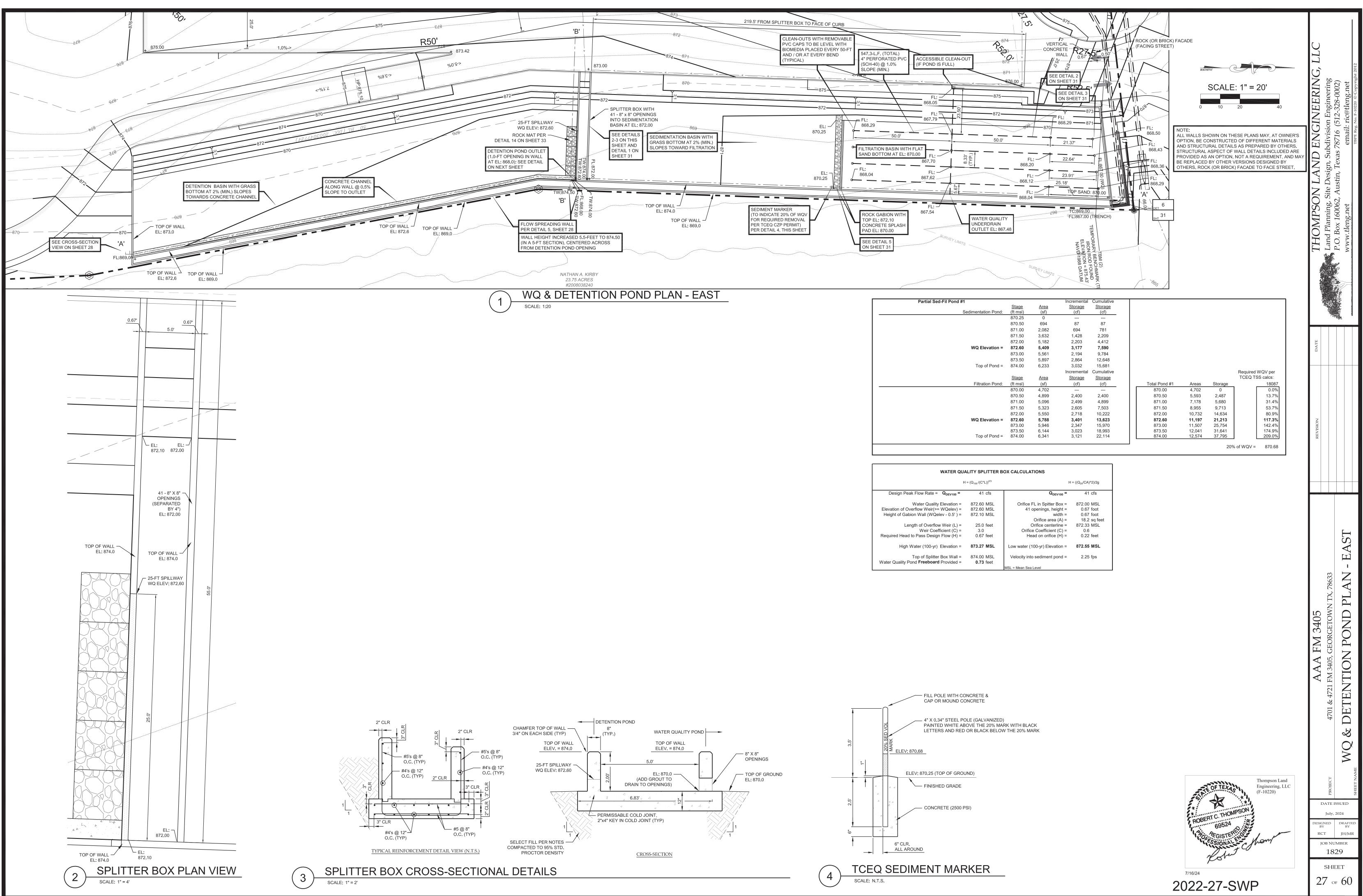


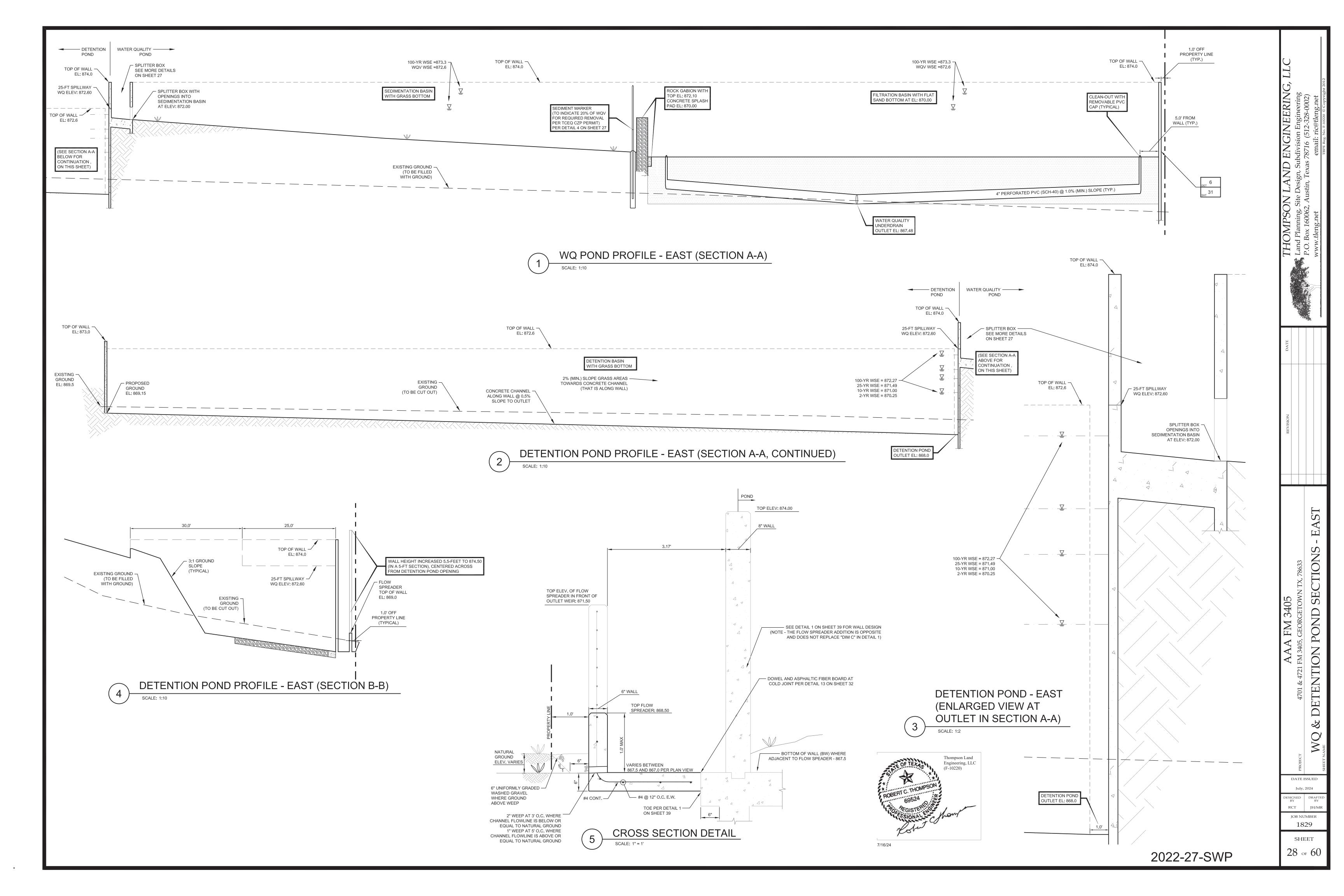


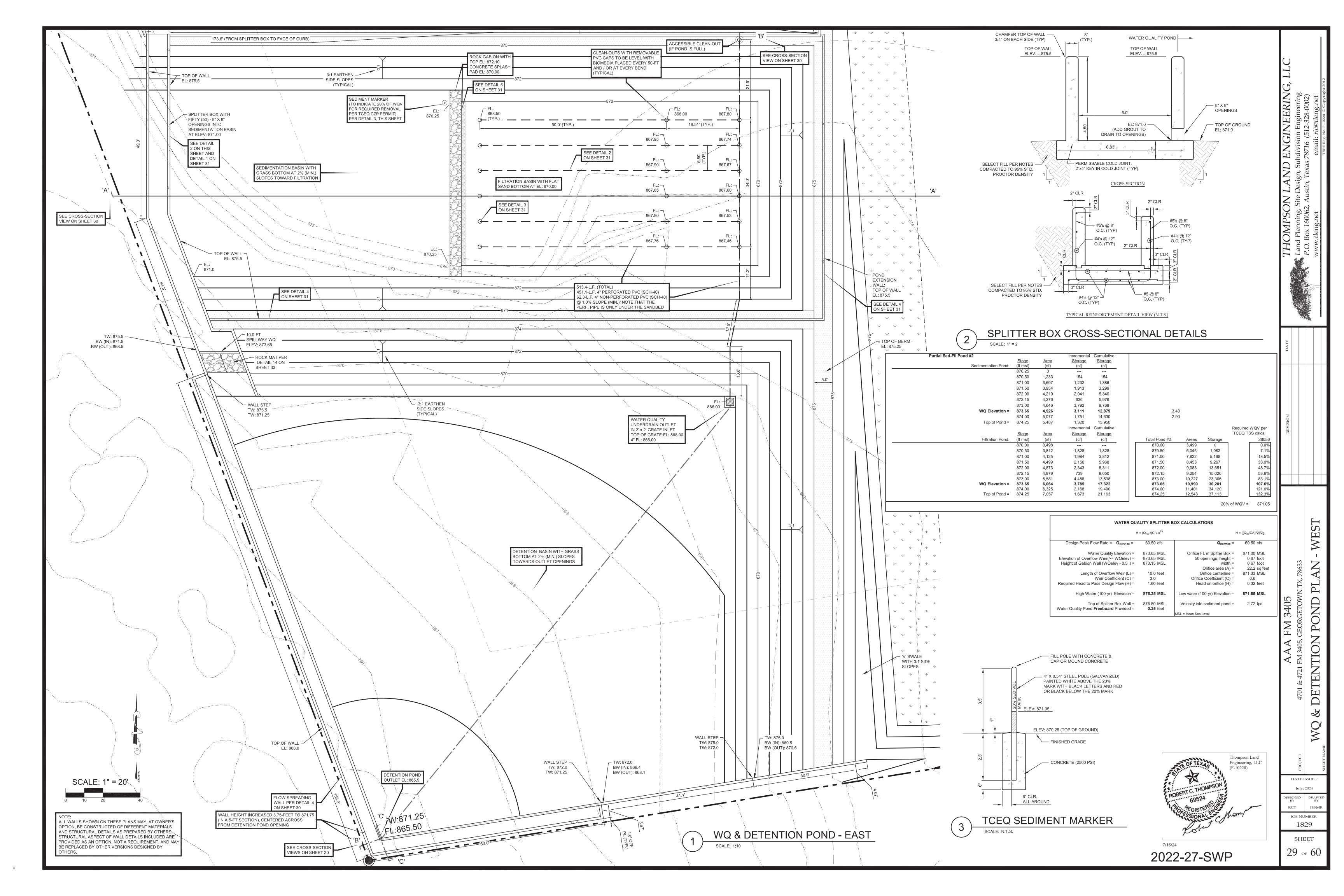


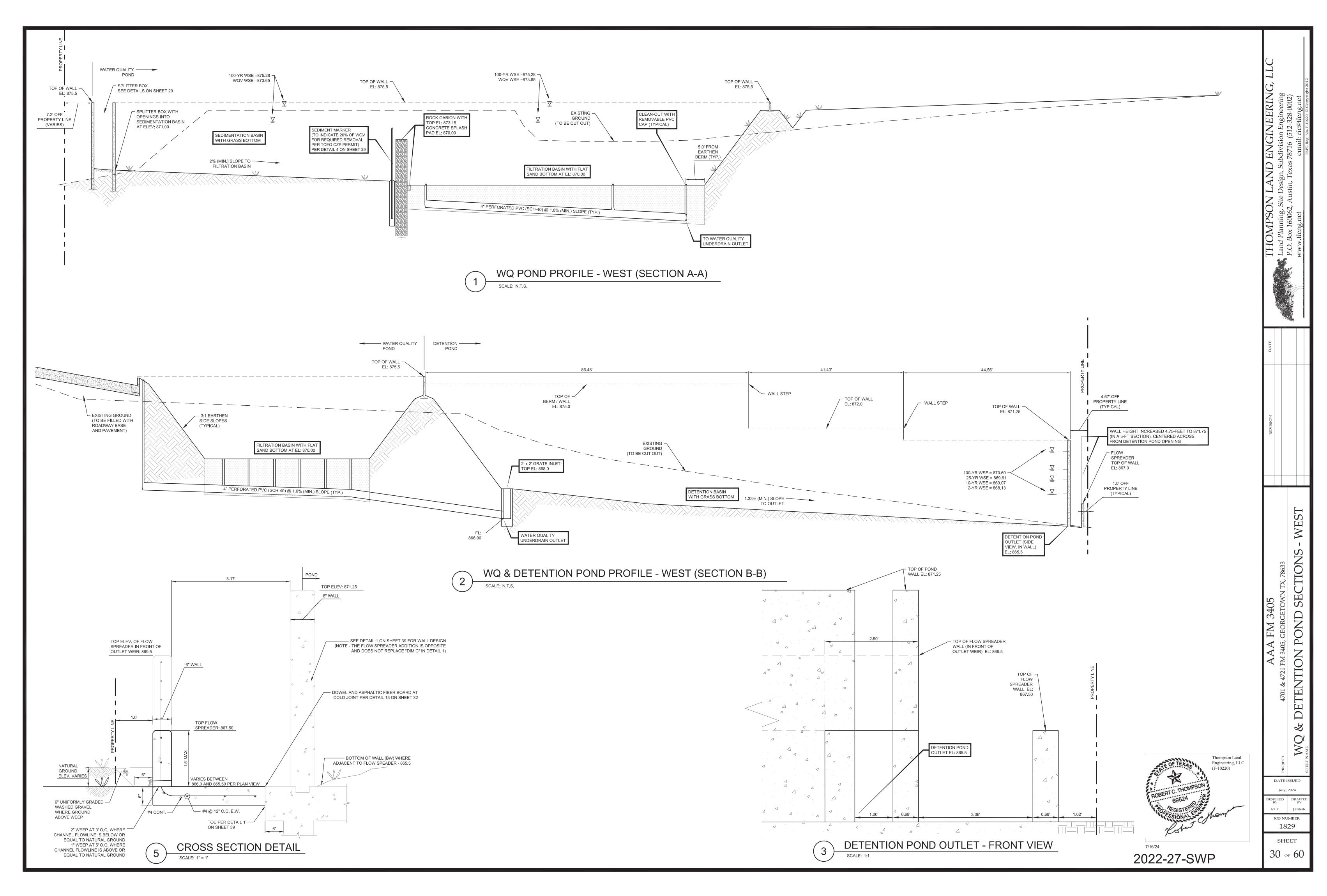


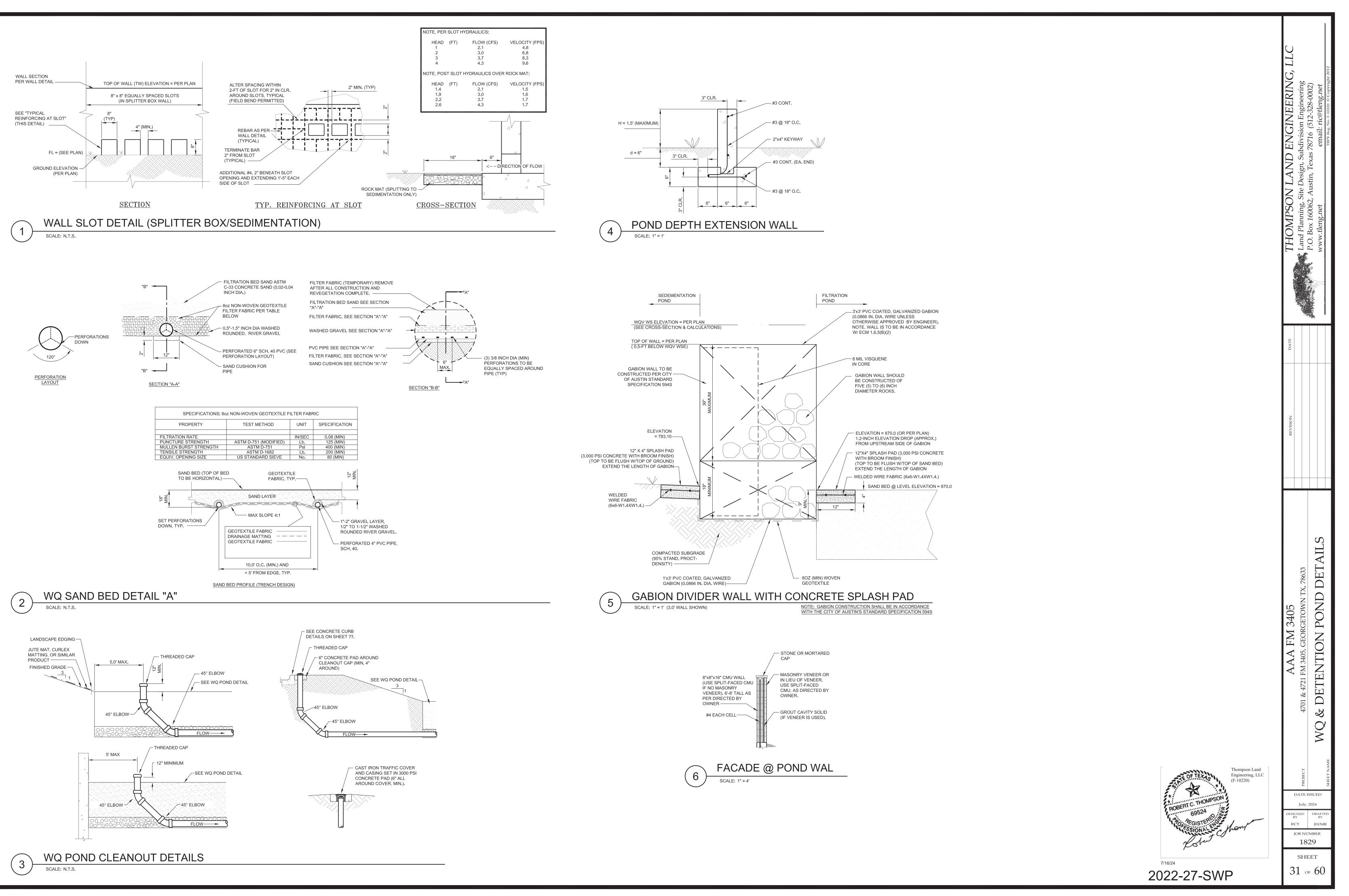


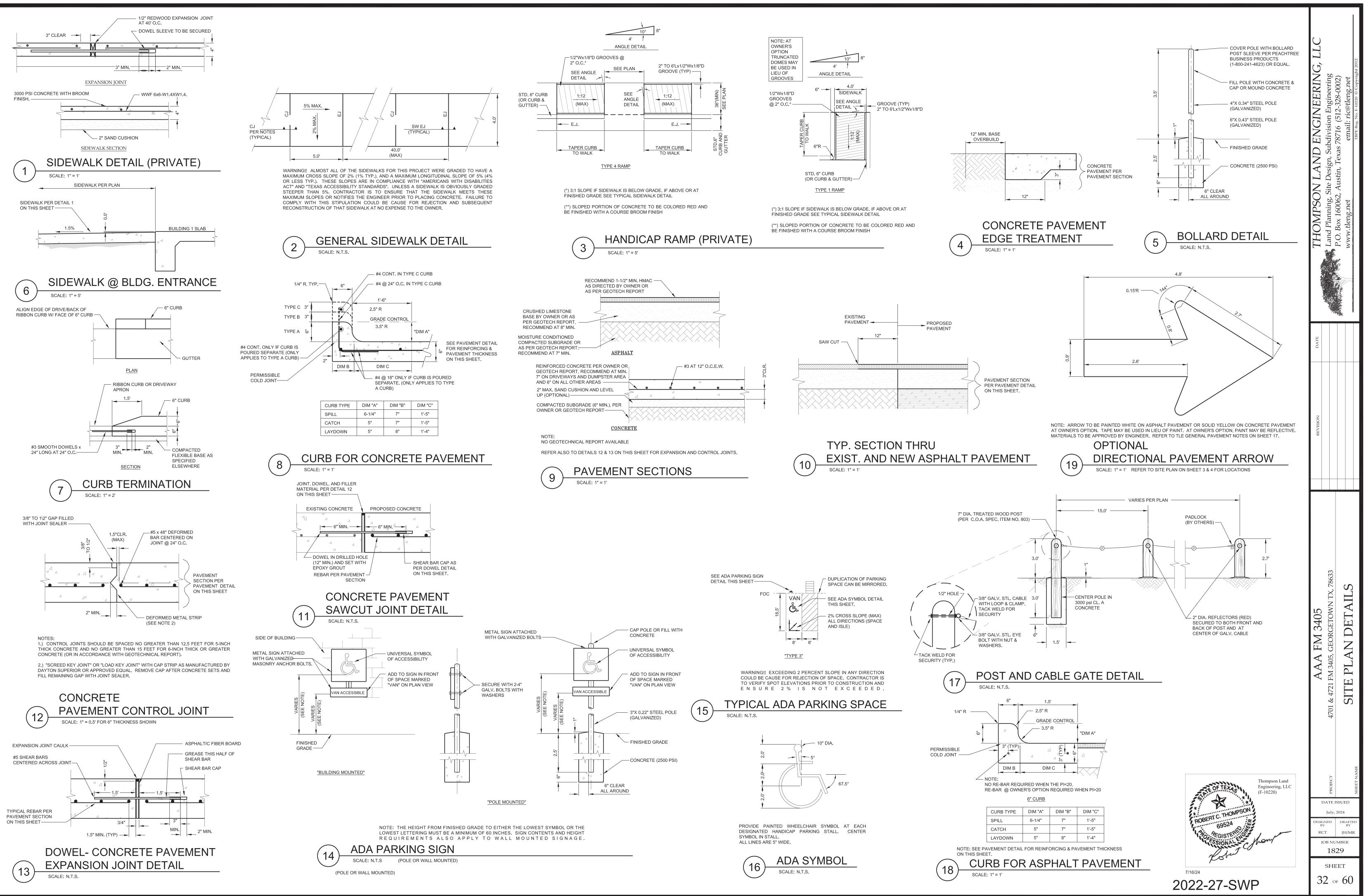


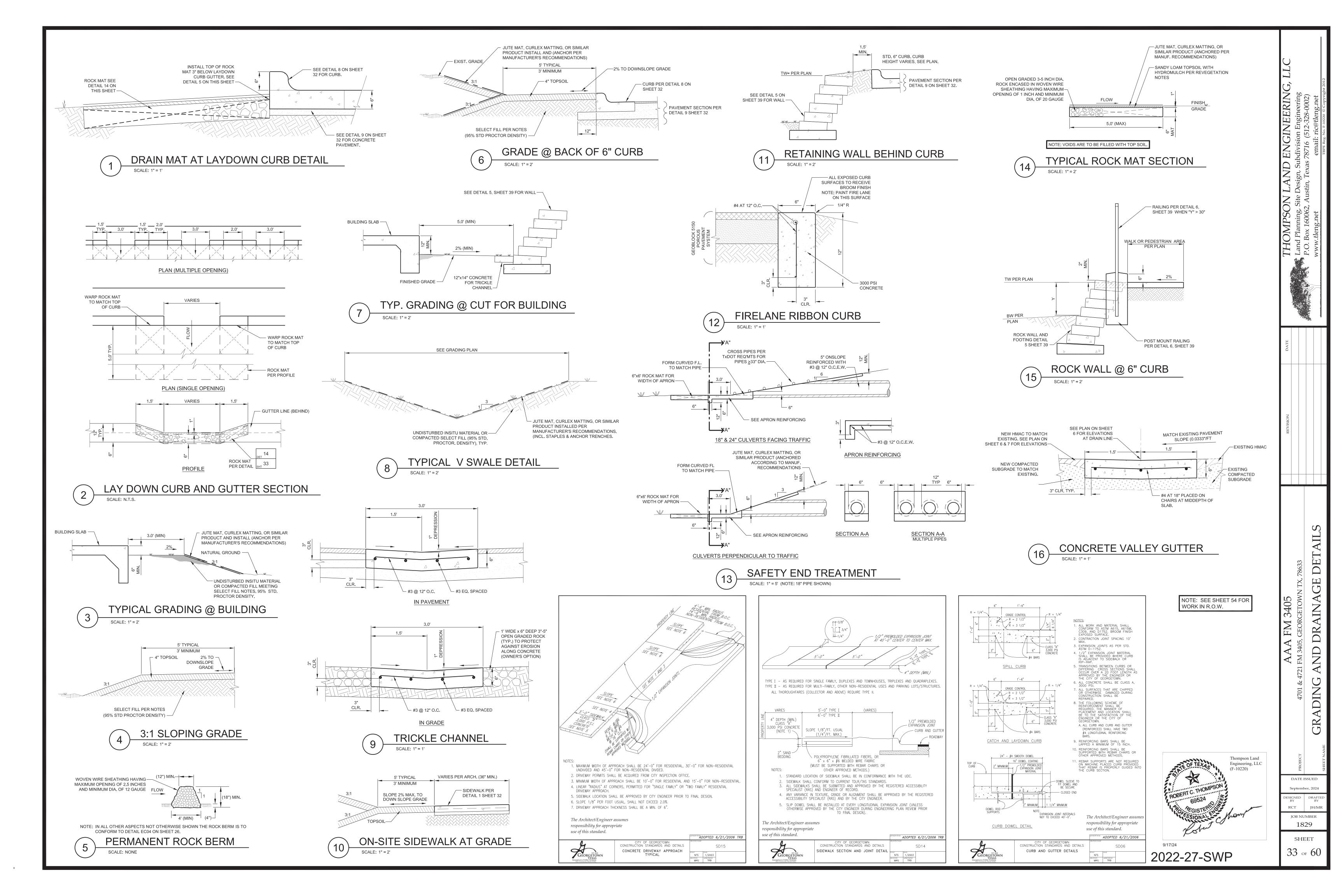


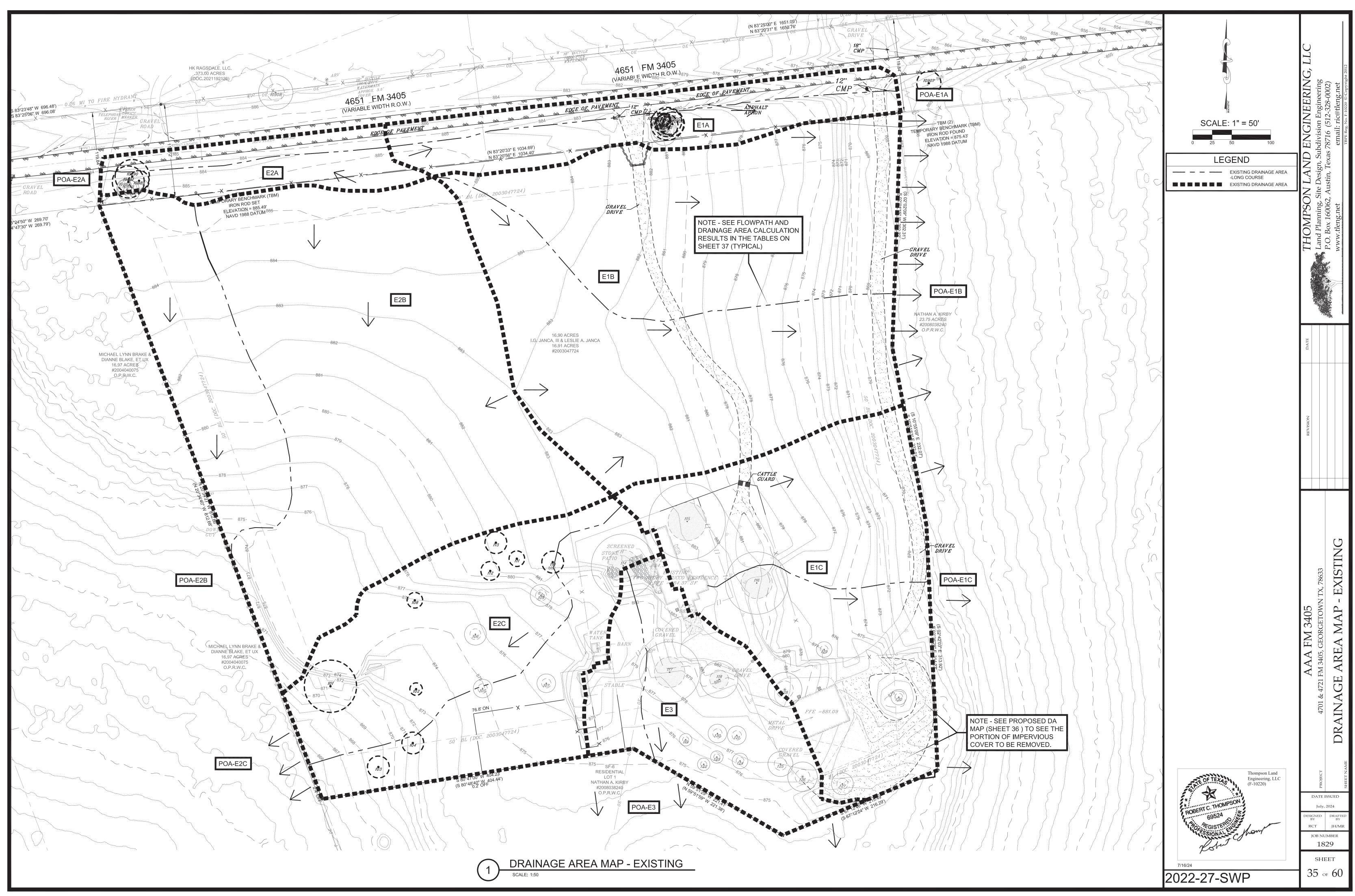


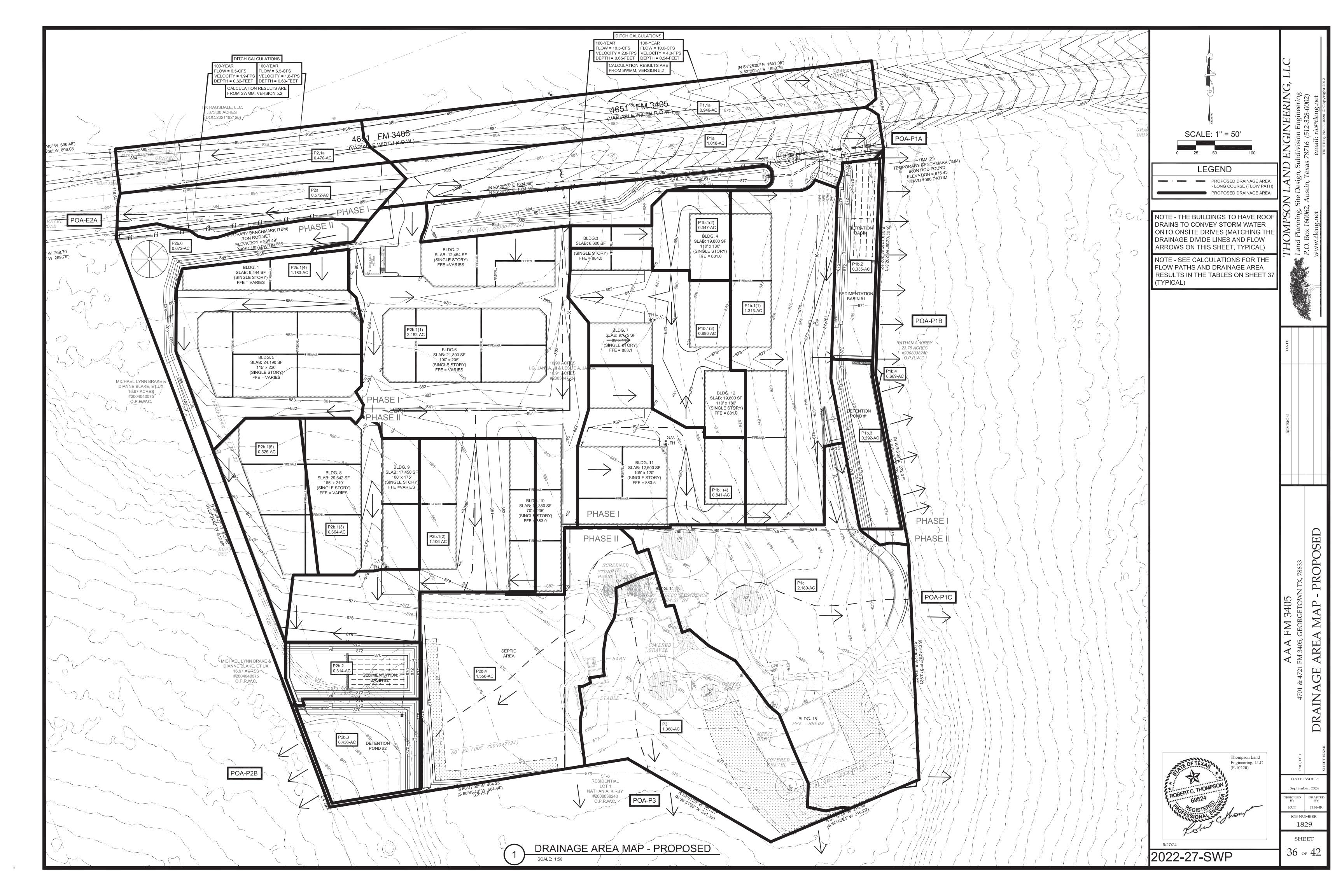






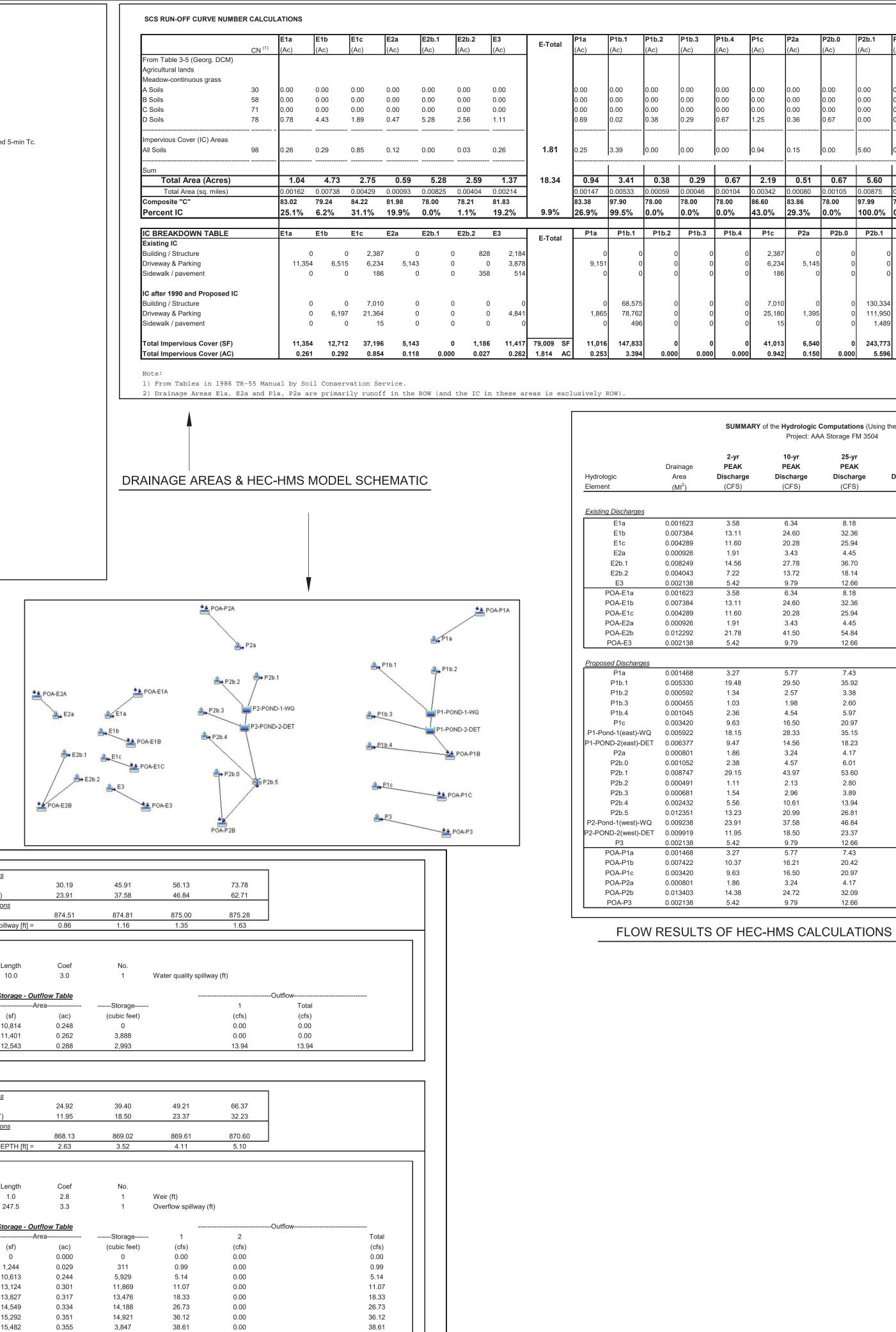






A) Rainfal	l Volumes - See US V												
B) Waters	4.14 2-year, 24- shed Factors (excludir												
Sheet	Flow (flow depth to												
Rea	E1a ach 1 0.15	E1b 0.15	E1c (& P1c) 0.15	E2a 0.15	E2b.1	E2b.2	E3 (& P3) 0.15	P1a 0.15	P2a 0.15	P1b.1	P2b.1 0.016	(n1)	
	50 0.010	75 0.008	33 0.032	50 0.010	100 0.017	100 0.017	50 0.102	50 0.010	25 0.020	27 0.019	14 0.011) Slope, ft/ft
Rea	ach 2 0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	0.010 0 0.010	(L1)) Length, ft
Shallo	w Concentrated Flor	w (R of 0.2 to	0.4 per SCS	S TR-55, Appe	ndix F (June	9 1986))							
Rea	ach 1 N 84 0.010	N 588 0.033	Y 59 0.039	N 81 0.025	N 446 0.025	N 499 0.036	N 205 0.024	N 84 0.010	N 0 0.020	Y 649 0.013	Y 895 0.010	(L2) (s2)	
Rea	ach 2 N 0	N O	N 207	N O	N 0	N 0	N O	N O	N 0	N O	N 0	(L2)	
Chann	0.020	0.020	0.058	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	(s2)) Slope, ft/ft
	3.5 0.033	0.0 0.020	0.0 0.020	1.0 0.003	0.0 0.020	0.0 0.020	0.0 0.020	3.5 0.033	1.0 0.003	0.0 0.020	0.0 0.020) Slope, ft/ft
	526	0	0	241	0	0	0	521	370	0	0	(L3)) Length, ft
RESULTS 													
	E1a	E1b	E1c	E2a	E2b.1	E2b.2	E3	P1a	P2a	P1b.1	P2b.1		
	6.5 0.0	9.8 0.0	3.0 0.0	6.5 0.0	9.2 0.0	9.2 0.0	2.6 0.0	6.5 0.0	2.8 0.0	0.5 0.0	0.4 0.0	min (T min (T	c-1b)
	1.6 0.9 2.3	2.9 3.3 2.3	4.0 0.2 3.9	2.6 0.5 2.3	2.6 2.9 2.3	3.0 2.7 2.3	2.5 1.4 2.3	1.6 0.9 2.3	2.3 0.0 2.3	2.4 4.6 2.3	2.0 7.4 2.3	V-2a (f min (T V-2b (f	c-2a) īps)
	0.0	0.0	0.9	0.0 4.0	0.0 0.0	0.0	0.0 0.0	0.0 2.5	0.0 6.1	0.0	0.0	min (T	
	9.9 9.9	 13.1 13.1	4.1 5.0	 11.0 11.0	 12.1 12.1	 11.9 11.9	3.9 5.0	9.9 9.9	9.0 9.0	 5.1 5.1	 7.8 7.8	Total (I Total U	min) Jsed (min)
	5.9 1.7	7.9 2.3	3.0 0.9	6.6 1.9	7.3 2.1	7.2 2.1	3.0 0.9	5.9 1.7	5.4 1.6	3.1 0.9	4.7 1.4	Lag fo	r HEC-HMS
	<u></u>	<u>ME OF</u>	CONC	ENTRA	TION (Tc) CAI	_CULA ⁻	TIONS					
Peak Inflows and Discharges			CONC	ENTRA			_CULA ⁻						Peak Inflows and D
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT)	20.8	2	2000 32.07 28.33	ENTRA 39.30 35.15		Tc) CAI						P	2(west)-Pond-1-W 2(west)-Pond-1-W
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation	20.8 18.1 18 872.5	2 5	32.07	39.30		51.88						Р Р Р	2(west)-Pond-1-W 2(west)-Pond-1-W <i>ond Water Surfac</i> 2(west)-Pond-1-W
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Le 872.60 2	20.8 18.1 <u>18</u> 872.6 way [ft] = 0.99 ength Coe 25.0 3.0	2 5 99 9	32.07 28.33 873.12	39.30 35.15 873.20		51.88 47.01 873.33 1.33							2(west)-Pond-1-W 2(west)-Pond-1-W 20nd Water Surfac 2(west)-Pond-1-W DEPT 20nd Outlets 2(west)-Pond-1-W Elevation 873.65
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Le 872.60 2 Pond - Elevation - Area - Stor (mean sea level)	20.8 18.1 20.8 18.1 25 20.8 18.1 25 20.8 18.1 25 20.8 18.1 25 20 20 20 20 20 20 20 20 20 20 20 20 20	2 5 99 9 f f 2 (c	32.07 28.33 873.12 1.12 No. 1	39.30 35.15 873.20 1.20 Water quality		51.88 47.01 873.33 1.33	-Outflow Tot	al 5)					2(west)-Pond-1-W 2(west)-Pond-1-W 2(west)-Pond-1-W DEPT 2(west)-Pond-1-W 2(west)-Pond-1-W Elevation 873.65 2(med - Elevation (mean sea level
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Le 872.60 2 Pond - Elevation - Area - Stoc (mean sea level) 872.60 11 873.00 11	20.8 18.1 1 <u>8</u> 872.9 way [ft] = 0.99 ength Coe 25.0 3.0 prage - Outflow Tabl (sf) (ac) 1,630 0.26 1,952 0.27	2 5 99 6 f <u>e</u> 7 4	32.07 28.33 873.12 1.12 No. 1 Storage cubic feet) 0 4,716	39.30 35.15 873.20 1.20 Water quality	y spillway (ft)	51.88 47.01 873.33 1.33 1.33	-Outflow Tot (cfs 0.0 18.5	al s) 0 97					2(west)-Pond-1-V 2(west)-Pond-1-V 20nd Water Surface 2(west)-Pond-1-V DEPT 2(west)-Pond-1-V Elevation 873.65 2(west)-Pond-1-V Elevation 873.65
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Le 872.60 2 Pond - Elevation - Area - Stoc (mean sea level) 872.60 11 873.00 11	20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 20.8 1.60 20.8 1.630 0.26	2 5 99 6 f <u>e</u> 7 4	32.07 28.33 873.12 1.12 No. 1 Storage cubic feet) 0	39.30 35.15 873.20 1.20 Water quality	y spillway (ft)	51.88 47.01 873.33 1.33	-Outflow Tot (cfs 0.0	al s) 0 97					2(west)-Pond-1-W 2(west)-Pond-1-W 20nd Water Surface 2(west)-Pond-1-W DEPT 2(west)-Pond-1-W Elevation 873.65 20nd - Elevation (mean sea level 873 874
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Leest)-Pond-1-WQ Elevation R72.60 2 Pond - Elevation - Area - Stor (mean sea level) 872.60 872.60	20.8 18.1 1 <u>8</u> 872.9 way [ft] = 0.99 ength Coe 25.0 3.0 prage - Outflow Tabl (sf) (ac) 1,630 0.26 1,952 0.27	2 5 99 6 f <u>e</u> 7 4	32.07 28.33 873.12 1.12 No. 1 Storage cubic feet) 0 4,716	39.30 35.15 873.20 1.20 Water quality	y spillway (ft)	51.88 47.01 873.33 1.33 1.33	-Outflow Tot (cfs 0.0 18.5	al s) 0 97					2(west)-Pond-1-W 2(west)-Pond-1-W 2(west)-Pond-1-W DEPT 2(west)-Pond-1-W 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W Elevation 873.65 20nd - Elevation (mean sea level 873 874 874
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Le 872.60 2 Pond - Elevation - Area - Sto Elevation	$20.8 \\ 18.1 \\ 18 \\ 872.6 \\ 18.1 \\ 18 \\ 872.6 \\ 18.1 \\ 18 \\ 872.6 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 18.1 \\ 19.1 \\ 9.47 \\ 19.1 \\ 10.1 \\ 10.$	2 5 99 9 1	32.07 28.33 873.12 1.12 No. 1 Storage cubic feet) 0 4,716	39.30 35.15 873.20 1.20 Water quality	y spillway (ft)	51.88 47.01 873.33 1.33 1.33	-Outflow Tot (cfs 0.0 18.5	al s) 0 97					2(west)-Pond-1-W 2(west)-Pond-1-W 2(west)-Pond-1-W DEPTI 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W 873.65 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D
Pond Outlets P1(east)-Pond-1-WQ Elevation Le 872.60 2 Pond - Elevation - Area - Store	20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 19.9 20.9	f 2 5 99 9 1 1 25 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	32.07 28.33 873.12 1.12 No. 1 Storage cubic feet) 0 4,716 12,501 30.12 14.56 871.00	39.30 35.15 873.20 1.20 Water quality Water quality 37.50 18.23 871.49	y spillway (ft)	51.88 47.01 873.33 1.33 1.33 1.33 50.30 24.75 872.27	-Outflow Tot (cfs 0.0 18.5	al s) 0 97					2(west)-Pond-1-W 2(west)-Pond-1-W 2(west)-Pond-1-W DEPTI 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W 873.65 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Le 872.60 2 Pond - Elevation - Area - Sto Elevation (mean sea level) 872.60 11 873.00 11 873.00 11 874.00 13 Peak Inflows and Discharges P1(east)-Pond-2-DET (IN) P1(east)-Pond-2-DET (OUT) Pond Water Surface Elevation P1-Pond-2(east)-DET DEF Pond Outlets	20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 20.8 18.1 19.1 (sf) (ac) 1,630 0.26 1,952 0.27 3,049 0.30 19.1 9.47 19.1 9.47	f 2 5 99 9 1 1 25 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 5 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	32.07 28.33 873.12 1.12 No. 1 -Storage cubic feet) 0 4,716 12,501 30.12 14.56	39.30 35.15 873.20 1.20 Water quality	y spillway (ft)	51.88 47.01 873.33 1.33 1.33 1.33 50.30 24.75	-Outflow Tot (cfs 0.0 18.5	al s) 0 97					2(west)-Pond-1-W 2(west)-Pond-1-W 2(west)-Pond-1-W DEPT 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W 873 874 874 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Le 872.60 2 Pond - Elevation - Area - Sto Elevation	20.8 18.1 20.8 19.1 9.47 20.49 19.1 9.47 20.2	2 5 99 9 1 7 4 0 1 7 4 0	32.07 28.33 873.12 1.12 No. 1 	39.30 39.30 35.15 873.20 1.20 Water quality	y spillway (ft)	51.88 47.01 873.33 1.33 1.33 1.33 50.30 24.75 872.27	-Outflow Tot (cfs 0.0 18.5	al s) 0 97					2(west)-Pond-1-W Elevation 873.65 20nd - Elevation (mean sea level) 873 874 874 874 2(west)-Pond-2-Di 2(west)-Pond-2-Di 2(west)-Pond-2-Di 2(west)-Pond-2-Di 2(west)-Pond-2-Di 2(west)-Pond-2-Di 2(west)-Pond-2-Di 2(west)-Pond-2-Di 2(west)-Pond-2-Di 2(west)-Pond-2-Di Elevation
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Let 872.60 2 Pond - Elevation - Area - Sto Elevation		f 2 5 99 9 1 7 4 0 1 7 4 0 1 7 5 5 5 6	32.07 28.33 873.12 1.12 No. 1 Storage cubic feet) 0 4,716 12,501 30.12 14.56 871.00 3.00	39.30 35.15 873.20 1.20 Water quality Water quality 37.50 18.23 871.49	y spillway (ft)	51.88 47.01 873.33 1.33 1.33 50.30 24.75 872.27 4.27	-Outflow Tot (cfs 0.0 18.5 124.	al s) 0 97					2(west)-Pond-1-W 2(west)-Pond-1-W 2(west)-Pond-1-W DEPTI 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W 873 874 874 874 874 874 874 874 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D 2(west)-Pond-2-D Elevation 865.50 871.25
Periest)-Pond-1-WQ (IN) Periest)-Pond-1-WQ (OUT) Periest)-Pond-1-WQ (OUT) DEPTH over spill Periest)-Pond-1-WQ Elevation Let 872.60 2 Periestion - Area - Stor Elevation (mean sea level) 872.60 11 873.00 11 873.00 11 874.00 13 Periest)-Pond-2-DET (IN) Periest)-Pond-2-DET (OUT) Periest)-Pond-2-DET (OUT) Periest)-Pond-2-DET DEF Periest)-Pond-2-DET DEF Periest)-Pond-2-DET Elevation Let 868.00 872.60 22 Periest)-Pond-2-DET Elevation Let 868.00 872.60 22 Periest)-Pond-2-DET Elevation Let 868.00 872.60 22 Periest)-Pond-2-DET Elevation Let 868.00 872.60 22 Periest)-Pond-2-DET Elevation Let 868.00 872.60 22 Periest)-Pond-2-DET Elevation Let 868.00 872.60 22 Periest)-Pond-2-DET Periest)-Po	20.8 20.8 18.1 20.8 19.1 9.47 20.2	f 2 5 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	32.07 28.33 873.12 1.12 No. 1 Storage cubic feet) 0 4,716 12,501 30.12 14.56 871.00 3.00 3.00 No. 1 1 	39.30 35.15 873.20 1.20 Water quality Water quality 37.50 18.23 871.49 3.49 Weir (ft) Overflow spi	y spillway (ft)	51.88 47.01 873.33 1.33 1.33 50.30 24.75 872.27 4.27 2	-Outflow Tot (cfs 0.0 18.5	al s) 0 97	Total				2(west)-Pond-1-W 2(west)-Pond-1-W 2(west)-Pond-1-W DEPT 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W 873 874 874 2(west)-Pond-2-D 2(west)-Pond-2(west)-Pond-2-D 2(west)-Pond-2(west
P1(east)-Pond-1-WQ (IN) P1(east)-Pond-1-WQ (OUT) Pond Water Surface Elevation P1-Pond-1(east)-WQ DEPTH over spill Pond Outlets P1(east)-Pond-1-WQ Elevation Least)-Pond-1-WQ Elevation Least)-Pond-1-WQ Elevation Least)-Pond-1-WQ Elevation Karzen Pond - Elevation - Area - Stor (mean sea level) Karzen Karzen Rational Strategies P1(east)-Pond-2-DET (IN) P1(east)-Pond-2-DET (OUT) Pond Outlets P1-Pond-2(east)-DET DEF Pond Outlets P1(east)-Pond-2-DET Elevation Leaston S68.00 872.60 22	20.8 20.8 18.1 20.9 20.9 20.9 20.9 20.27 3,049 0.30 20.27	2 5 99 9 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 1 7 4 0 7 4 0 7 4 0 7 4 0 7 7 4 0 7 7 7 7	32.07 28.33 873.12 1.12 No. 1 Storage cubic feet) 0 4,716 12,501 30.12 14.56 871.00 3.00 No. 1 1	39.30 35.15 873.20 1.20 Water quality Water quality 37.50 18.23 871.49 3.49 Weir (ft) Overflow spi	y spillway (ft)	51.88 47.01 873.33 1.33 1.33 50.30 24.75 872.27 4.27	-Outflow Tot (cfs 0.0 18.5 124.	al s) 0 97					2(west)-Pond-1-W 2(west)-Pond-1-W 2(west)-Pond-1-W DEPTI 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W Elevation 873.65 2(west)-Pond-1-W 873.65 2(west)-Pond-2-D 2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-2(west)-Pond-

POND RESULTS OF HEC-HMS & OULET CALCULATIONS



0.369

11,826

46.40

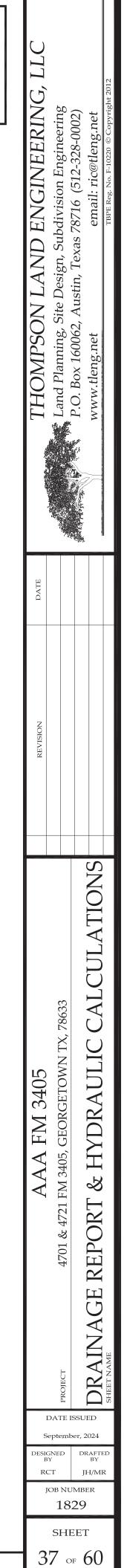
530.49

576.90

	P2a	P2b.0	P2b.1	P2b.2	P2b.3	P2b.4	P3	D Tatal
	(Ac)	(Ac)	(Ac)	(Ac)	(Ac)	(Ac)	(Ac)	P-Total
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.36	0.67	0.00	0.31	0.44	1.53	1.11	
	0.15	0.00	5.60	0.00	0.00	0.03	0.26	10.62
		 I	 	 I	 I	 		
19	0.51	0.67	5.60	0.31	0.44	1.56	1.37	18.34
42	0.00080	0.00105	0.00875	0.00049	0.00068	0.00243	0.00214	
	83.86	78.00	97.99	78.00	78.00	78.35	81.83	
%	29.3%	0.0%	100.0%	0.0%	0.0%	1.7%	19.2%	57.9%
lc	P2a	P2b.0	P2b.1	P2b.2	P2b.3	P2b.4	P3	P-Total
2,387				0	0	828		
6,234 186	5,145 0	0	-	0	0	0 358	-,	
100	0	0	0	0	0	550	514	
7,010	0	0	130,334	0	0	0	0	
5,180	1,395	0	111,950	0	0	0	4,841	
15	0	0	1,489	0	0	0	0	
1,013	6,540				0	1,186		
0.942	0.150	0.000	5.596	0.000	0.000	0.027	0.262	10.624 AC

10-yr PEAK	25-yr PEAK	100-yr PEAK	
Discharge	Discharge	Discharge	
(CFS)	(CFS)	(CFS)	Notes
			All storm events are Atlas-14 rainfall data
6.34	8.18	11.31	
24.60	32.36	45.42	
20.28	25.94	35.67	
3.43	4.45	6.16	
27.78	36.70	51.83	
13.72	18.14	25.58	
9.79	12.66	17.57	
6.34	8.18	11.31	Compare to POA-P1a
24.60	32.36	45.42	Compare to POA-P1b
20.28	25.94	35.67	Compare to POA-P1c
3.43	4.45	6.16	Compare to POA-P2a
41.50	54.84	77.41	Compare to POA-P2b
9.79	12.66	17.57	Compare to POA-P3
5.77	7.43	10.25	
29.50	35.92	47.12	
2.57	3.38	4.77	
1.98	2.60	3.66	
4.54	5.97	8.42	
16.50	20.97	28.67	
28.33	35.15	47.01	
14.56	18.23	24.75	
3.24	4.17	5.75	
4.57	6.01	8.47	
43.97	53.60	70.23	
2.13	2.80	3.95	
2.96	3.89	5.48	
10.61	13.94	19.62	
20.99	26.81	37.39	
37.58	46.84	62.71	
18.50	23.37	32.23	
9.79	12.66	17.57	
5.77	7.43	10.25	Compare to POA-E1a
16.21	20.42	27.96	Compare to POA-E1b
16.50	20.97	28.67	Compare to POA-E1c
3.24	4.17	5.75	Compare to POA-E2a
24.72	32.09	45.35	Compare to POA-E2b
9.79	12.66	17.57	Compare to POA-E3

DRAINAGE FOR THIS DEVELOPMENT DOES NOT DRAIN TO TXDOT ROW, DOES NOT CAUSE TXDOT DRAINAGE TO BE BLOCKED AND HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.



Thompson Land

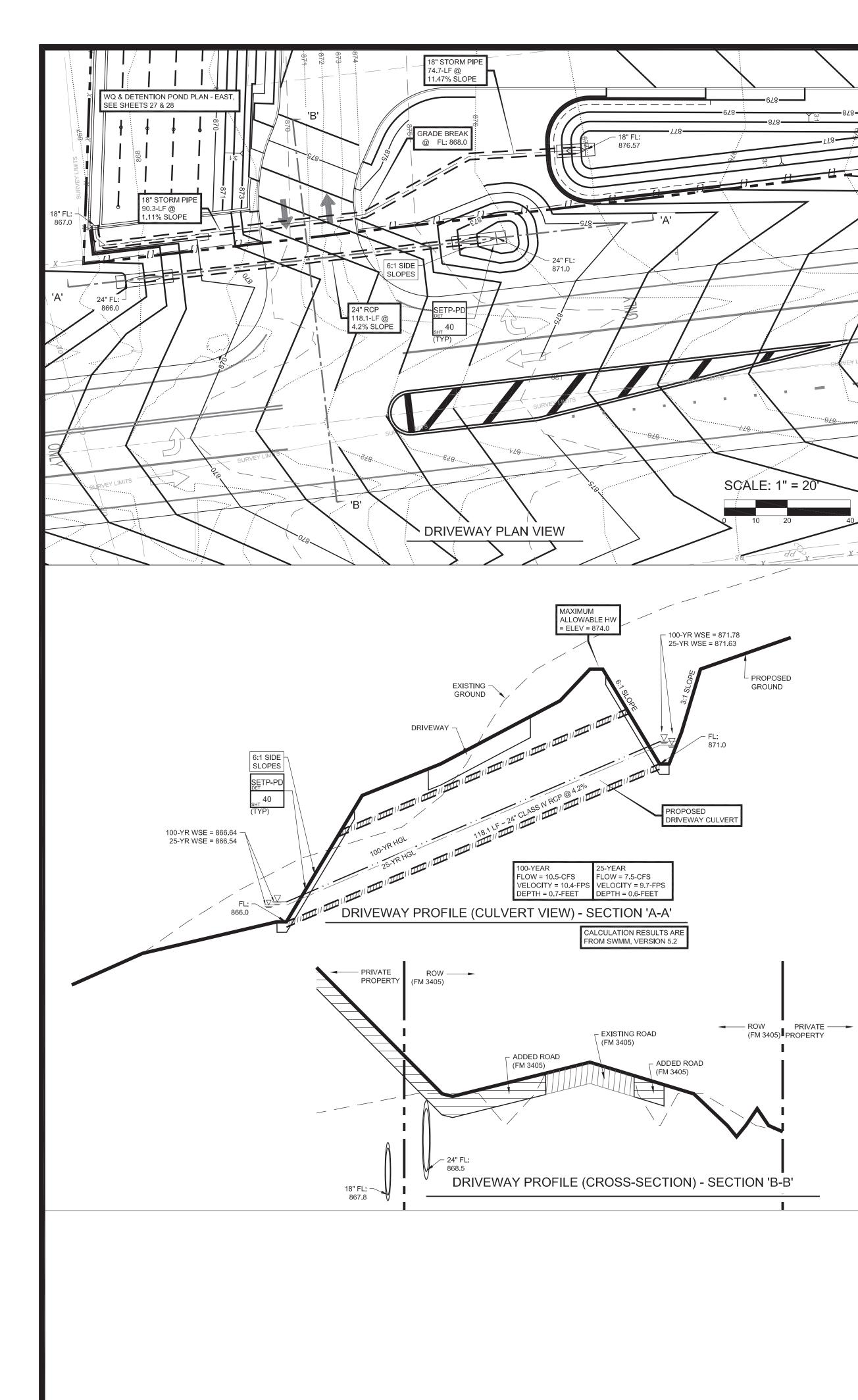
Engineering, LLC (F-10220)

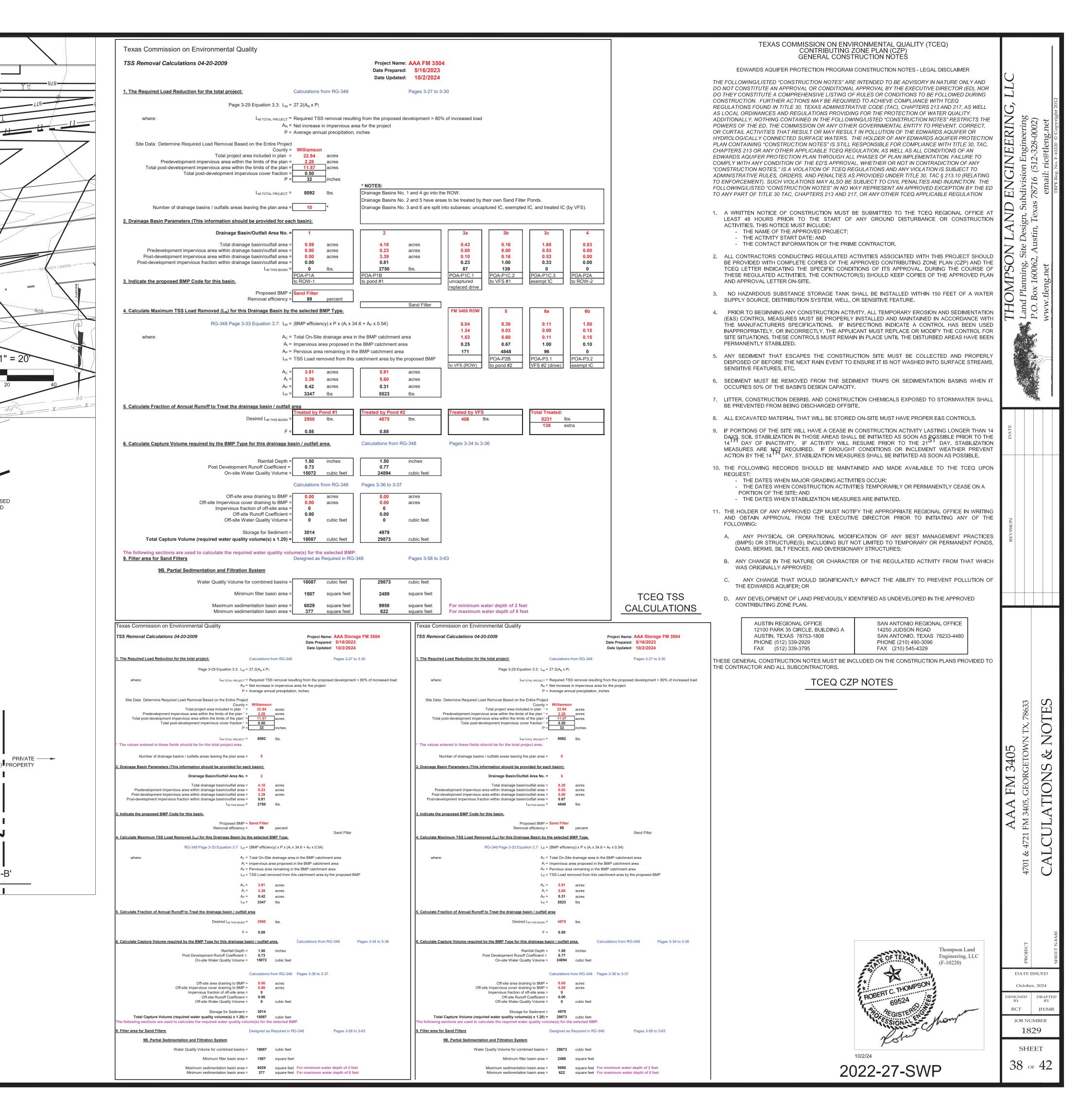
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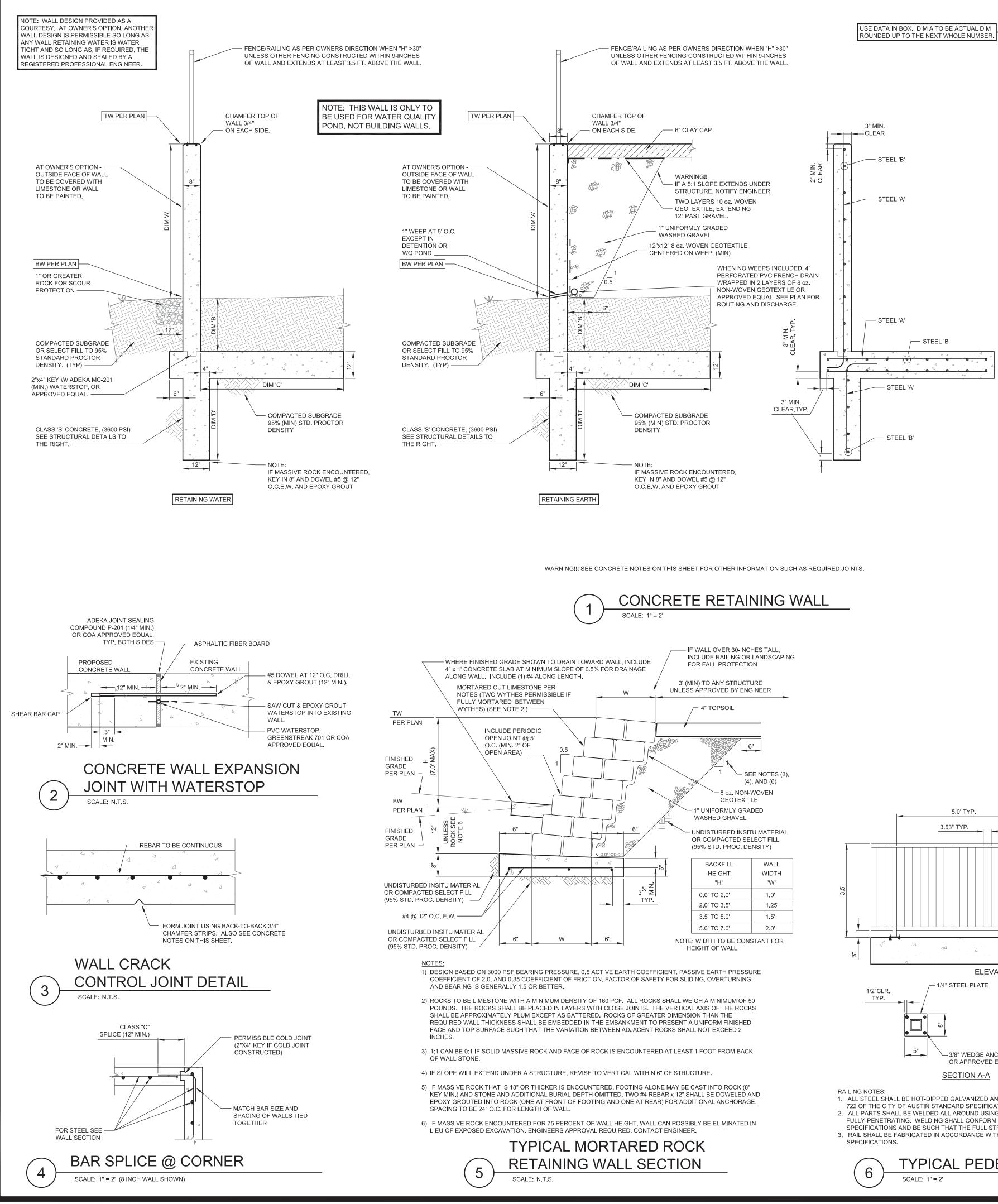
ROBERT C. THOMPSON

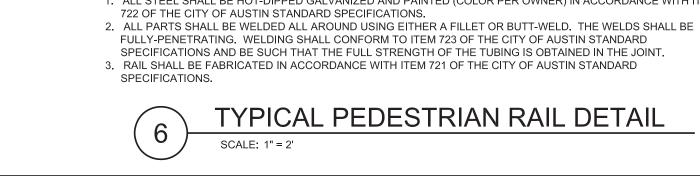
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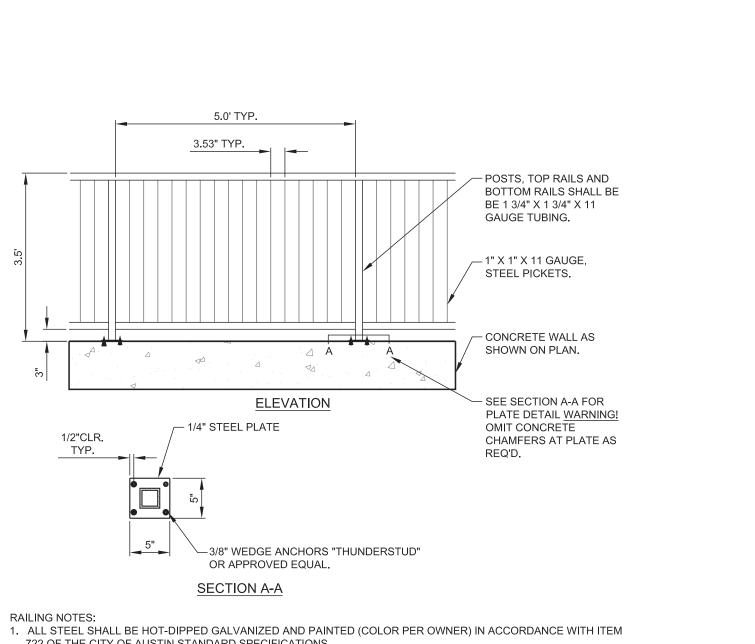
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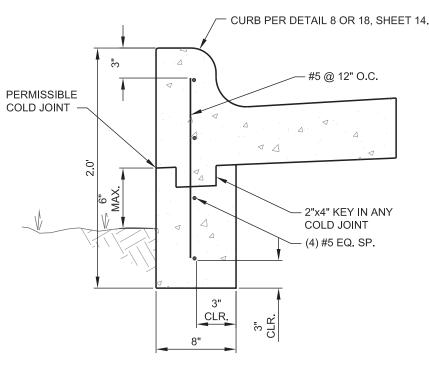




arth Only	Loading	g (no wate	er, weeps	s or fre	ench drain)	Water Loa	ading (no	earth c	other than burial)
	W2-N	W2-L	W2-N	W2-L			W2-W	W2-W	
im A	2.00	2.00	2.00		Exposed Ht	Dim A	2.00		Exposed Ht
im B	0.00	0.00	3.00	3.00	-	Dim B	0.00		Burial
m C	2.83	2.83	2.83	2.83	Heal	Dim C	2.83		Heal
m D	0.50	1.25	0.50	1.25	Key	Dim D		0.50	
eel A eel B		- #4 @12' - #4 @12'			Vertial Steel Horizontal Steel				- Vertical Steel - Horizontal Steel
	2	4	2	4	 Maximum non-countered height of soil or water (ft)		2		 Maximum non-countered height of soil or water (ft
	1.9	1.5	2.0	1	Factor of safety, sliding		1.5		Factor of safety, sliding
	13.1	5.6	3.7		Factor of safety, overturning		7.9		Factor of safety, overturning
	434	801	1129		Maximum Bearing Pressure (psi)		350		Maximum Bearing Pressure (psi)
	W3-N	W3-L	W3-N	W3-L			W3-W	W3-W	
m A	3.00	3.00	3.00	3.00	-	Dim A	3.00		Exposed Ht
mВ	0.00	0.00	3.00	3.00	Burial	Dim B	0.00		Burial
m C	3.83	3.83	3.83	3.83		Dim C	3.83	3.83	
m D 	0.50	1.33	0.50	1.33	Кеу	Dim D	1.25		-
eel A		- #4 @12'			Vertial Steel				 - Vertical Steel
eel B		- #4 @12			Horizontal Steel				- Horizontal Steel
	3	5	3	5			3		Maximum non-countered height of soil or water (ft
	1.8	1.5	1.9		Factor of safety, sliding		1.6		Factor of safety, sliding
	13.3	6.3	4.5		Factor of safety, overturning		6.5		Factor of safety, overturning
	573	965	1294	2036	Maximum Bearing Pressure (psi)		487	893	Maximum Bearing Pressure (psi)
	W4-N	W4-L	W4-N	W4-L			W4-W	W4-W	
mΑ	4.00	4.00	4.00	4.00	Exposed Ht	Dim A	4.00		Exposed Ht
m B	0.00	0.00	3.00	3.00	-	Dim B	0.00		Burial
m C	4.83	4.83	4.83	4.83	Heal	Dim C	4.83		Heal
m D	0.50	1.50	0.50	1.50	Кеу	Dim D		1.75	
eel A eel B		- #4 @12' - #4 @12'			Vertial Steel Horizontal Steel				- Vertical Steel - Horizontal Steel
	4	6	4	6	Maximum non-countered height of soil or water (ft)		4	4	Maximum non-countered height of soil or water (ft
	1.8	1.5	1.6	1.6	Factor of safety, sliding		1.6	1.7	Factor of safety, sliding
	12.9	6.7	4.8	3.3	Factor of safety, overturning		5.6	3.0	Factor of safety, overturning
	719	1139	1479	2177	Maximum Bearing Pressure (psi)		582	955	Maximum Bearing Pressure (psi)
	W5-N	W5-L	W5-N	W5-L			W2-W	W5-W	
im A	5.00	5.00	5.00	5.00	Exposed Ht	Dim A	5.00		Exposed Ht
_m B	0.00	0.00	3.00	3.00	±	Dim A Dim B	0.00		Burial
im C		5.83	5.83	5.83	Heal	Dim B Dim C	5.83		Heal
m D		1.75	0.50	1.75	Key	Dim D	2.50	2.50	
eel A		- #5 @12'			Vertial Steel				- Vertical Steel
eel B		- #4 @12'		<u> </u>	Horizontal Steel		#4 @12 		- Horizontal Steel
	5	7	5	7	Maximum non-countered height of soil or water (ft)		 5		Maximum non-countered height of soil or water (ft
	1.7	1.6	1.6	1.6	Factor of safety, sliding		1.6		Factor of safety, sliding
	12.4	7.0	5.4		Factor of safety, overturning		5.1		Factor of safety, overturning
	870	1316	1648		Maximum Bearing Pressure (psi)		688		Maximum Bearing Pressure (psi)
									-
	W6-N	W6-L	W6-N	W6-L			W6-W W6		
n A	6.00	6.00	6.00		Exposed Ht	Dim A	6.00		Exposed Ht
m B	0.00	0.00	3.00	3.00	Burial	Dim B	0.00		Burial
m C		6.83	6.83	6.83	Heal	Dim C	6.83		Heal
n D 	0.50	2.00	0.50	2.00	Key	Dim D 	3.00	3.00	-
eel A		- #5 @12'	OC		Vertial Steel				- Vertical Steel
eel B		- #4 @12			Horizontal Steel	Steel B ·	#4 @12	" OC	- Horizontal Steel
	6	8		8	Maximum non-countered height of soil or water (ft)		 6		 Maximum non-countered height of soil or water (ft
	1.7	1.6	1.6		Factor of safety, sliding		1.5		Factor of safety, sliding
		7.2	5.8		Factor of safety, overturning		4.8		Factor of safety, overturning
		/ • 스			Maximum Bearing Pressure (psi)		767		Maximum Bearing Pressure (psi)
	11.9 1024	1491	1815						
	11.9	1491	1812						
	11.9 1024 ts, Wts,	and Stre	enghts us	sed in (L Calculations				
120 Un	11.9 1024 ts, Wts, hit weigh	and Stre	enghts us 1, pcf (sed in (µs) (no	Calculations te 5) 0.25 Friction Coe				
120 Un 0.35 Ac	11.9 1024 ts, Wts, hit weigh ctive Ean	and Stre ht of soil rth Press	enghts us 1, pcf (1re Coef	sed in (µs) (no (Ka)-S	Calculations te 5) 0.25 Friction Coe	n, psf (c) [f	or sliding	g]	60 Rebar Strength (ksi)

TLE GENERAL CONCRETE NOTES:

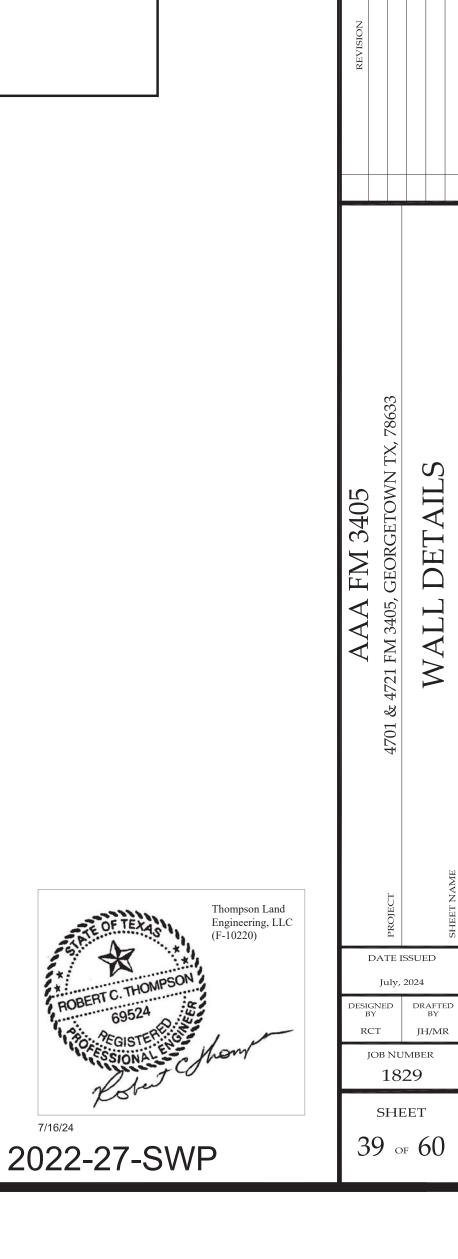
- 1) ALL CONCRETE, REINFORCING, AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST ACI CODES AND IBC INCLUDING LAPS, SPLICES, TERMINATIONS, BAR SUPPORTS, AND CONCRETE COVER.
- 2) UNLESS OTHERWISE SPECIFIED, BARS SHALL BE DEFORMED GRADE 60.
- 3) UNLESS OTHERWISE SPECIFIED, ALL CONCRETE FOR FLAT WORK, CURBS, AND WALLS 3 FEET IN HEIGHT OR LESS SHALL CONFORM TO CITY OF AUSTIN CLASS A (3000 psi) AND ALL CONCRETE FOR WALLS GREATER THAN 3 FEET IN HEIGHT, AND OTHER VERTICAL STRUCTURES, SHALL CONFORM TO CITY OF AUSTIN CLASS S (4000 psi).
- 4) UNLESS OTHERWISE SPECIFIED, ALL DOWELS SHALL BE OF THE SAME SIZE AND SPACING AS THE REINFORCEMENT TO WHICH THE DOWEL IS TO BE SPLICED. DOWELS SHALL BE FIRMLY SET PRIOR TO PLACING THE CONCRETE; DOWELS SHALL NOT BE INSERTED INTO FRESH CONCRETE.
- 5) UNLESS OTHERWISE SPECIFIED, ALL EXPOSED WALL EDGES ARE TO RECEIVE 3/4" CHAMFER.
- 6) UNLESS OTHERWISE SPECIFIED, ALL EXPOSED VERTICAL SURFACES TO RECEIVE A RUBBED FINISH AND ALL EXPOSED FLAT WORK SURFACES TO RECEIVE A BROOM FINISH.
- 7) UNLESS OTHERWISE SPECIFIED OR SHOWN, EXPANSION JOINTS AND CONTROL JOINTS SHOULD BE LAID OUT SO THAT NO SECTION OF CONCRETE HAS A CORNER WITH AN ANGLE LESS THAN 60 DEGREES. ANY JOINT FORMING A CORNER WITH AN ANGLE OF LESS THAN 60 DEGREES SHOULD BE REALIGNED TO INCLUDE A STRAIGHT SECTION AT 90 DEGREES THAT IS AT LEAST 6 INCHES IN LENGTH
- 8) UNLESS OTHERWISE SPECIFIED, CONTROL JOINTS IN CONCRETE FLAT WORK SHALL BE FORMED WITH A TROWEL, 3/4" DEEP, 5 FEET ON CENTER, AND ROUNDED. UNLESS OTHERWISE SPECIFIED, CONTROL JOINTS IN VERTICAL CONCRETE SHALL BE FORMED WITH 3/4" CHAMFER STRIPS AND SHALL BE SPACED NO FURTHER APART THAN 25 FEET ON CENTER.
- 9) UNLESS OTHERWISE SPECIFIED, EXPANSION JOINTS SHALL BE INCLUDED IN ALL CONCRETE FLAT WORK AT A MAXIMUM SPACING OF 25 FEET ON CENTER AND SHALL BE INCLUDED IN ALL CONCRETE WALLS AT A MAXIMUM SPACING OF 20 FEET ON CENTER. JOINTS SHALL BE 3/4-INCH WIDE AND FILLED WITH ASPHALTIC FIBER BOARD. EXPANSION JOINTS IN WALLS RETAINING WATER SHALL INCLUDE A CONTINUOUS WATER STOP EXTENDING DOWN TO THE FOOTING. DOWELS SHALL BE INCLUDED IN ALL EXPANSION JOINTS THAT ARE AT LEAST OF THE SAME SIZE AND SPACING AS THE REINFORCING



NOTE: DESIGN BASED ON 20' UNSUPPORTED LENGTH SUBJECT TO A SINGLE 1000 LB. LATERAL POINT LOAD (8500 LBS. DECELERATING FROM 5 MPH IN ONE SECOND).

SCALE: N.T.S.

CURB EXTENSION WALL DETAIL



BERT C. THOMP

ENGINEERIN

LAND

N

<u> IMF</u>

GENERAL NOTES: VERSION: JUNE 13, 2024

ITEM	DESCRIPTION	**RATE
**204	SPRINKLING	
	(DUST)	30 GAL/CY
	(ITEM 132)	30 GAL/CY
	(ITEM 247)	30 GAL/CY
**210	ROLLING (FLAT WHEEL)	
	(ITEM 247)	1 HR/200 TON
	(ITEM 316)	1 HR/6000 SY
**210	ROLLING (TAMPING AND HEAVY TAMPING)	1 HR/200 CY
**210	ROLLING (LT PNEUMATIC TIRE)	
	(ITEM 132)	1 HR/500 CY
	(ITEM 247)	1 HR/200 TON
	(ITEM 316 - SEAL COAT)	1 HR/6000 SY
	(ITEM 316 - TWO COURSE)	1 HR/3000 SY
247	FLEXIBLE BASE (CMP IN PLC)	132 LB/CF
310	PRIME COAT	0.20 GAL/SY
314	EMULSIFIED ASPHALT TREATMENT (SS-1 OR MS-2)	0.30 GAL/SY
316	UNDERSEALS ASPHALTS (MULTI OPTION)	0.20 GAL/SY
	SURFACE TREATMENTS	
	SEAL COAT	
	GRADE 4	
	ASPHALT	0.38 GAL/SY
	AGGREGATE	1 CY/120 SY
	GRADE 5	
	ASPHALT	0.32 GAL/SY
	AGGREGATE	1 CY/150 SY
	TWO COURSE SURFACE TREATMENT	
	ASPHALT 1ST APPLICATION	0.28 GAL/SY
	ASPHALT 2ND APPLICATION	0.24 GAL/SY
	AGGREGATE 1ST APPLICATION GRADE 4	1 CY/110 SY
	AGGREGATE 2ND APPLICATION GRADE 4	1 CY/130 SY
341/3076, 344/3077	DENSE-GRADED HOT-MIX ASPHALT AND SUPERPAVE	110 LB/SY/IN
342/3079	PERMEABLE FRICTION COURSE (PFC)	90.0 LB/SY/IN
346/3080	STONE-MATRIX ASPHALT	113 LB/SY/IN
347/3081	THIN OVERLAY MIXTURES (TOM)	
	SAC B	113.0 LB/SY/IN
	SAC A	116.0LB/SY/IN
350	MICROSURFACING	25 LB/SY
3084	BONDING COURSE	0.09 GAL/SY
3085	UNDERSEAL COURSE	0.20 GAL/SY
	TACK COAT	0.08 GAL/SY

** FOR INFORMATIONAL PURPOSES ONLY

GENERAL

CONTRACTOR QUESTIONS AND REQUESTS FOR DOCUMENTS ON THIS PROJECT ARE TO BE ADDRESSED TO THE FOLLOWING INDIVIDUAL(S): JOHN.PETERS@TXDOT.GOV QUESTIONS AND REQUESTS FOR DOCUMENTS WILL BE ACCEPTED VIA THE LETTING PRE-BID Q&A WEB PAGE. ALL QUESTIONS AND ANY CORRESPONDING RESPONSES THAT ARE GENERATED WILL BE POSTED THROUGH THE SAME LETTING PRE-BID Q&A WEB PAGE. THIS WEBPAGE CAN BE ACCESSED FROM THE NOTICE TO CONTRACTORS DASHBOARD LOCATED AT THE FOLLOWING ADDRESS:

HTTPS://TABLEAU.TXDOT.GOV/VIEWS/PROJECTINFORMATIONDASHBOARD/NOTICETOCONTRACTORS

THE LETTING PRE-BID Q&A WEB PAGE FOR EACH PROJECT CAN BE ACCESSED BY USING THE DASHBOARD TO NAVIGATE TO THE PROJECT YOU ARE INTERESTED IN BY SCROLLING OR FILTERING THE DASHBOARD USING THE CONTROLS ON THE LEFT. HOVER OVER THE BLUE HYPERLINK FOR THE PROJECT YOU WANT TO VIEW THE Q&A FOR AND CLICK ON THE LINK IN THE WINDOW THAT POPS UP.

REFERENCES TO MANUFACTURER'S TRADE NAME OR CATALOG NUMBERS ARE FOR THE PURPOSE OF IDENTIFICATION ONLY. SIMILAR MATERIALS FROM OTHER MANUFACTURERS ARE PERMITTED IF THEY ARE OF EQUAL QUALITY, COMPLY WITH THE SPECIFICATIONS FOR THIS PROJECT, AND ARE APPROVED.

IF WORK IS PERFORMED AT CONTRACTOR'S OPTION, WHEN INCLEMENT WEATHER IS IMPENDING, AND THE WORK IS DAMAGED BY SUBSEQUENT PRECIPITATION, THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPLACING THE WORK, IF REQUIRED.

THE ROADBED WILL BE FREE OF ORGANIC MATERIAL PRIOR TO PLACING ANY SECTION OF THE PAVEMENT STRUCTURE.

EQUIP ALL CONSTRUCTION EQUIPMENT USED IN ROADWAY WORK WITH HIGHLY VISIBLE OMNIDIRECTIONAL FLASHING WARNING LIGHTS.

INTELLIGENT TRANSPORTATION SYSTEMS (ITS) INFRASTRUCTURE MAY EXIST WITHIN THE LIMITS OF THIS PROJECT AND THAT THE SYSTEM MUST REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. THE EXACT LOCATION OF ITS INFRASTRUCTURE IS NOT KNOWN. CONTACT THE TXDOT AREA ENGINEER'S OR INSPECTION TEAM'S OFFICE FOR THE LOCATION(S) AT LEAST 72 HOURS BEFORE COMMENCING ANY WORK THAT MIGHT AFFECT PRESENT ITS INFRASTRUCTURE. IN THE EVENT OF SYSTEM DAMAGE, NOTIFY TXDOT/CTECC AT (512) 974-0883 WITHIN ONE HOUR OF OCCURRENCE. REFER TO ITEM 6000 FOR ADDITIONAL DETAILS.

PROVIDE A SMOOTH, CLEAN SAWCUT ALONG THE EXISTING ASPHALT OR CONCRETE PAVEMENT STRUCTURE, AS DIRECTED. CONSIDER SUBSIDIARY TO THE PERTINENT ITEMS. CONSTRUCT ALL MANHOLES/VALVES TO FINAL PAVEMENT ELEVATIONS PRIOR TO THE PLACEMENT OF FINAL SURFACE. IF THE MANHOLES/VALVES ARE GOING TO BE EXPOSED OR GRU

TO TRAFFIC, PLACE TEMPORARY ASPHALT AROUND THE MANHOLE/VALVE TO PROVIDE A 50:1 TAPER. THE ASPHALT TAPER IS SUBSIDIARY TO THE ACP WORK. KEEP THE ROADWAY FREE OF DEBRIS AND SEDIMENT CAUSED BY CONSTRUCTION ACTIVITIES. DISPOSE OF ALL MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL

REGULATIONS. THIS WORK IS SUBSIDIARY.

DAMAGE TO EXISTING PIPES AND SET'S DUE TO CONTRACTOR OPERATIONS WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.

LL LOCATIONS USED FOR STORING CONSTRUCTION EQUIPMENT, MATERIALS, AND STOCKPILES OF ANY TYPE, WITHIN THE RIGHT OF WAY, WILL BE AS DIRECTED. USE OF RIGHT OF WAY FOR THESE PURPOSES WILL BE RESTRICTED TO THOSE LOCATIONS WHERE DRIVER SIGHT DISTANCE TO BUSINESSES AND SIDE STREET INTERSECTIONS IS NOT OBSTRUCTED AND AT OTHER LOCATIONS WHERE AN UNSIGHTLY APPEARANCE WILL NOT EXIST. THE CONTRACTOR WILL NOT HAVE EXCLUSIVE USE OF RIGHT OF WAY BUT WILL COOPERATE IN THE USE OF THE RIGHT OF WAY WITH THE CITY/COUNTY AND VARIOUS PUBLIC UTILITY COMPANIES AS REQUIRED.

DURING EVACUATION PERIODS FOR HURRICANE EVENTS THE CONTRACTOR WILL COOPERATE WITH DEPARTMENT FOR THE RESTRICTING OF LANE CLOSURES AND ARRANGING FOR TRAFFIC CONTROL TO FACILITATE COASTAL EVACUATION EFFORTS.

ITEM 5 – CONTROL OF THE WORK

PLACE CONSTRUCTION STAKES AT INTERVALS OF NO MORE THAN 100 FT. THIS WORK IS SUBSIDIARY.

PRECAST ALTERNATE PROPOSALS.

WHEN A PRECAST OR CAST-IN-PLACE CONCRETE ELEMENT IS INCLUDED IN THE PLANS, A PRECAST CONCRETE ALTERNATE MAY BE SUBMITTED IN ACCORDANCE WITH "STANDARD OPERATING PROCEDURE FOR ALTERNATE PRECAST PROPOSAL SUBMISSION" FOUND ONLINE AT ALTERNATE PRECAST PROPOSAL SUBMISSION (TXDOT.GOV). ACCEPTANCE OR DENIAL OF AN ALTERNATE IS AT THE SOLE DISCRETION OF THE ENGINEER. IMPACTS TO THE PROJECT SCHEDULE AND ANY ADDITIONAL COSTS RESULTING FROM THE USE OF ALTERNATES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THERMOPLASTIC PIPE ALTERNATE PROPOSALS

WHEN A REINFORCED CONCRETE OR CORRUGATED METAL PIPE IS INCLUDED IN THE PLANS, A THERMOPLASTIC POLYPROPYLENE PIPE ALTERNATE MAY BE SUBMITTED IN A 2-PHASE PROCESS. ACCEPTANCE OR DENIAL OF AN ALTERNATE IS AT THE SOLE DISCRETION OF THE ENGINEER. IMPACTS TO THE PROJECT SCHEDULE AND ANY ADDITIONAL COSTS RESULTING FROM THE USE OF ALTERNATES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ELECTRONIC SHOP DRAWING SUBMITTALS.

SUBMIT ELECTRONIC SHOP DRAWING SUBMITTALS ACCORDING TO THE CURRENT GUIDE TO ELECTRONIC SHOP DRAWING SUBMITTAL WHICH CAN BE FOUND ONLINE AT, HTTPS://WWW.TXDOT.GOV/BUSINESS/RESOURCES/HIGHWAY/BRIDGE/SHOP-DRAWING-SUBMITTAL-CYCLE.HTML.

PRE-APPROVED PRODUCERS CAN BE FOUND ONLINE AT, HTTPS://WWW.TXDOT.GOV/BUSINESS/RESOURCES/MATERIALS/MATERIAL-PRODUCER-LIST.HTML.

USE THE FOLLOWING CONTACT LIST FOR ALL SUBMITTALS THAT ARE NOT REQUIRED TO BE SENT TO BRIDGE DIVISION AND TO COPY THE ENGINEER FOR ALL SUBMITTALS TO THE BRIDGE DIVISION.

SUBMITTAL CONTACT LIST

GEORGETOWN JASON.HUDSON@TXDOT.GOV AUS_GE-SHOPREVIEW@TXDOT.GOV

ALIGNMENT AND PROFILE.

UNLESS SHOWN IN THE PLANS, PROFILE AND ALIGNMENT DATA FOR ROADWAYS BEING OVERLAID OR WIDENED ARE FOR DESIGN VERIFICATION ONLY. PROVIDE SURVEY AND CONSTRUCT THE ROADWAY IN ACCORDANCE WITH THE TYPICAL SECTION. BID ITEMS AND DATA MAY BE PROVIDED TO ADJUST CROSS SLOPE AND SUPER ELEVATIONS.

ITEM 6 - CONTROL OF MATERIALS GIVE A MINIMUM OF 1 BUSINESS DAY NOTICE FOR MATERIALS, WHICH REQUIRE INSPECTION AT THE PLANT.

STORAGE OF MATERIAL NEAR STRUCTURES DO NOT STORE EQUIPMENT OR FLAMMABLE MATERIAL WITHIN 100 FT. OF BRIDGES, CULVERTS, OR NEAR THEIR OPENINGS (PORTALS). FLAMMABLE MATERIALS INCLUDE ALL

MATERIAL THAT IS NOT METAL OR ALUMINUM.

PERFORM MAINTENANCE OF VEHICLES OR EQUIPMENT AT DESIGNATED MAINTENANCE SITES. KEEP A SPILL KIT ON-SITE DURING FUELING AND MAINTENANCE. THIS WORK IS SUBSIDIARY.

MAINTAIN POSITIVE DRAINAGE FOR PERMANENT AND TEMPORARY WORK FOR THE DURATION OF THE PROJECT. BE RESPONSIBLE FOR ANY ITEMS ASSOCIATED WITH THE TEMPORARY OR INTERIM DRAINAGE AND ALL RELATED MAINTENANCE. THIS WORK IS SUBSIDIARY.

SUSPEND ALL ACTIVITIES NEAR ANY SIGNIFICANT RECHARGE FEATURES, SUCH AS SINKHOLES, CAVES, OR ANY OTHER SUBTERRANEAN OPENINGS THAT ARE DISCOVERED DURING PROCE CONSTRUCTION OR CORE SAMPLING. DO NOT PROCEED UNTIL THE DESIGNATED GEOLOGIST OR TCEQ REPRESENTATIVE IS PRESENT TO EVALUATE AND APPROVE REMEDIAL ACTION.

LOCATE ABOVEGROUND STORAGE TANKS KEPT ON-SITE FOR CONSTRUCTION PURPOSES IN A CONTAINED AREA AS TO NOT ALLOW ANY EXPOSURE TO SOILS. THE CONTAINMENT WILL BE SIZED TO CAPTURE 150% OF THE TOTAL CAPACITY OF THE STORAGE TANKS.

PSL IN EDWARDS AQUIFER RECHARGE AND CONTRIBUTING ZONE. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ALL ON OR OFF RIGHT OF WAY PSLS NOT SPECIFICALLY ADDRESSED IN THE PLANS. PROVIDE A SIGNED SKETCH OF THE LOCATION 30 BUSINESS DAYS PRIOR TO USE OF THE PSL. INCLUDE A LIST OF MATERIALS, EQUIPMENT AND PORTABLE FACILITIES THAT WILL BE STORED AT THE PSL. TXDOT USE A

WILL COORDINATE WITH THE NECESSARY AGENCIES. APPROVAL OF THE PSL IS NOT GUARANTEED. UN APPROVED PSL IS NOT A COMPENSABLE IMPACT.

MIGRATORY BIRDS AND BATS. MIGRATORY BIRDS AND BATS MAY BE NESTING WITHIN THE PROJECT LIMITS AND CONCENTRATED ON ROADWAY STRUCTURES SUCH AS BRIDGES AND CULVERTS. REMOVE ALL REMOV OLD AND UNOCCUPIED MIGRATORY BIRD NESTS FROM ANY STRUCTURES, TREES, ETC. BETWEEN SEPTEMBER 16 AND FEBRUARY 28. PREVENT MIGRATORY BIRDS FROM RE-NESTING BETWEEN MARCH 1 AND SEPTEMBER 15. PREVENTION SHALL INCLUDE ALL AREAS WITHIN 25 FT. OF PROPOSED WORK. ALL METHODS USED FOR THE REMOVAL OF SHOULI OLD NESTING AREAS AND THE PREVENTION OF RE-NESTING MUST BE SUBMITTED TO TXDOT 30 BUSINESS DAYS PRIOR TO BEGIN WORK. THIS WORK IS SUBSIDIARY.

IF ACTIVE NESTS ARE ENCOUNTERED ON-SITE DURING CONSTRUCTION, ALL CONSTRUCTION ACTIVITY WITHIN 25 FT. OF THE NEST MUST STOP. CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED.

TREE AND BRUSH TRIMMING AND REMOVAL. WORK WILL BE CONDUCTED SEPTEMBER 16 THRU FEBRUARY 28. WORK CONDUCTED OUTSIDE THIS TIMEFRAME WILL REQUIRE A BIRD SURVEY. SUBMIT A SURVEY REQUEST TO

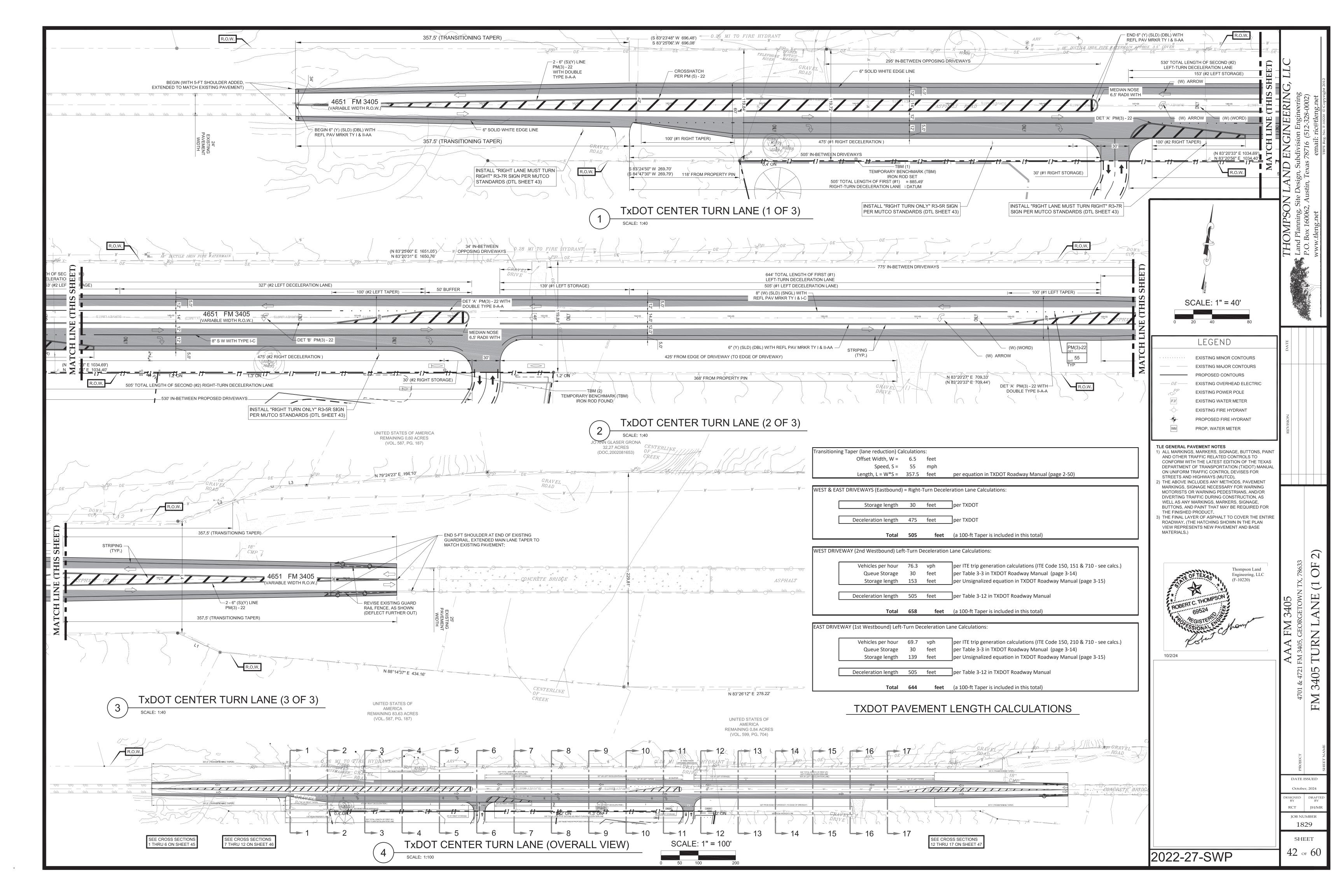
TXDOT 30 BUSINESS DAYS PRIOR TO BEGIN WORK. IF WITHIN THE REMOVAL TIME PERIOD, REMOVAL WORK MAY BE CONDUCTED DURING DELAYED START PERIOD USING PROPER TRAFFIC CONTROL PER TCP STANDARDS.

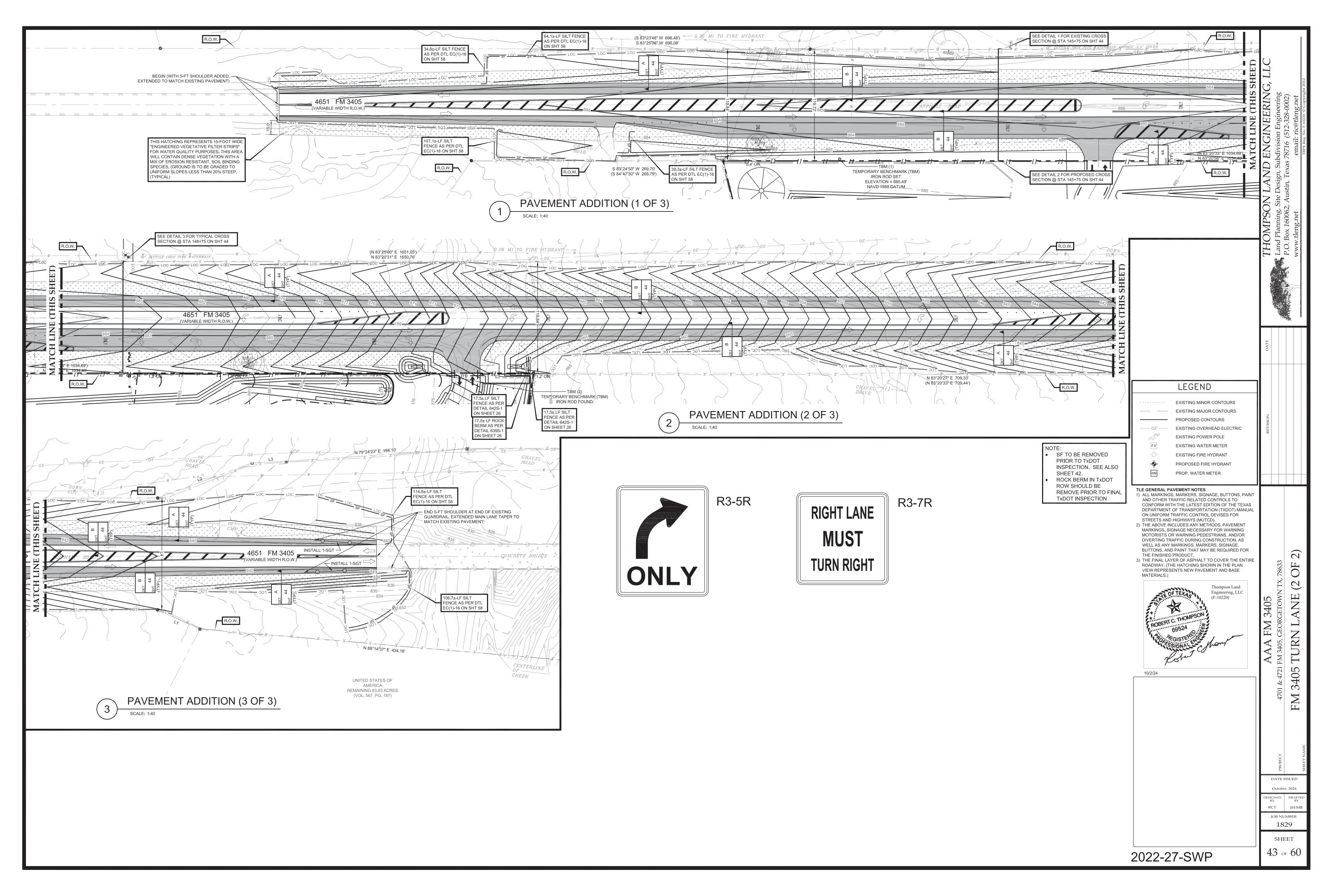
UP RE	NT'D ON BEGIN REMOVAL OPERATIONS, ALL REMOVAL WORK FOR THE PROJECT MUST BE C MOVING FROM ROW OR MULCHING OF ALL DEBRIS. • EXTENSION OF TIME OR COMPENSATION WILL BE GRANTED FOR A DELAY OR SUSPEN		CONT'D TRANSITION FROM THE NEW ACP TO A DRIVEWAY, PULLOUT OR INTERSECTION. SAW CUT THE EXISTING PAVEMENT AT THE BUTT JOINTS. THIS WORK IS SUBSIDIARY. USE A DEVICE TO CREATE A MAXIMUM 3H:1V NOTCHED WEDGE JOINT ON ALL LONGITUDINAL JOINTS OF 2 IN. OR GREATER. THIS WORK IS SUBSIDIARY.	CONT'D Retain all materials. Existing materials that are structurally sound and dent free may b standards. Structurally sound rust spots with the largest dimension of 4 in. may be cle metal rail element to accommodate post spacing. Additional holes for splice or conne closer than the minimum spacing shown on the current standard.	aned and repaired in accordance
	NE CLOSURE ASSESSMENT FEE.		PRIOR TO MILLING, CORE THE EXISTING PAVEMENT TO VERIFY THICKNESS. THIS WORK IS SUBSIDIARY.	Remove, replace, and install mow strip block out material. Construct new block outs	and backfill unused block outs wit
EX ON	E MONTHLY ESTIMATE WILL BE DEDUCTED A FEE PER 15-MINUTE INTERVAL ACCORDIN FENDS BEYOND THE ALLOWABLE CLOSURE TIME. FEE WILL BE BASED ON ANNUAL AVE I THE PLANS. IF AADT IS NOT FOUND ON THE PLANS PLEASE USE TXDOT – STATEWIDE F RECTION OF TRAFFIC, THE ENGINEER MAY REDUCE THE FEE BY 25 PERCENT FOR OFF-PE	ERAGE DAILY TRAFFIC (AADT) OF THE ROADWAY. USE AADT INFORMATION AS SHOWN PLANNING MAP TXDOT - STATEWIDE PLANNING MAP. IF THE ROADWAY HAS A PEAK	Ensure placement sequence to avoid excess distance of longitudinal joint lap back not to exceed one day's production rates. Submit any proposed adjustments or changes to a JMF before production of the new JMF. Tack every layer. Do not dilute tack coat. Apply it evenly through a distributor spray bar.	Repair of mow strip damage, not caused by contractor negligence, and installation of around fence and mow strip will be paid using embankment item.	new mow strip will be paid with a
	AADT	LANE CLOSURE ASSESSMENT FEE (PER LANE PER 15	Provide a minimum transition of 10' for intersections, 10' for commercial driveways, and 6' for residential driveways unless otherwise shown on the plans.	ITEM 585 - RIDE QUALITY FOR PAVEMENT SURFACES (See Designers Guide for guide to selecting pay schedule. Default is schedule 3.)	1
	MORE THAN TO AND INCLUDING	MINUTES)	Irregularities will require the replacement of a full lane width using an asphalt paver. Replace the entire sublot if the irregularities are greater than 40% of the sublot area.	Use Surface Test Type B Pay Schedule ?? to evaluate ride quality of travel lanes, includ	ling service roads.
	0 10000	\$150.00	Lime or an approved anti-stripping agent must be used when crushed gravel is utilized to meet a SAC "A" requirement.	ITEM 658 – DELINEATOR AND OBJECT MARKER ASSEMBLIES All delineator post and supports, excluding metal components, must be manufactured	I in the same color that matches
	10000 20000 20000 40000	\$300.00 \$600.00	When using RAP or RAS, include the management methods of processing, stockpiling, and testing the material in the QCP submitted for the project. If RAP and RAS are used in	Flexible posts YFLX and WFLX must be tubular in shape. The "flat" flexible posts are no	ot allowed.
	40000 60000 60000 80000	\$900.00 \$1,200.00	the same mix, the QCP must document that both of these materials have dedicated feeder bins for each recycled material. Blending of RAP and RAS in one feeder bin or in a	Installation and maintenance of portable CTB reflectors will be subsidiary to the barrie	er.
	80000 100000 100000	\$1,500.00 \$1,800.00	stockpile is not permitted.	CTB delineators must be placed on top of the CTB.	
	ALL OF IH 35 MAINLANES	\$2,000.00	Asphalt content and binder properties of RAP and RAS stockpiles must be documented when recycled asphalt content greater than 20% is utilized.	ITEM 662 - WORK ZONE PAVEMENT MARKINGS	
PR		HAVE BEEN PROTECTED, ITEMS LISTED IN THE EPIC HAVE BEEN ADDRESSED, AND SW3P	No RAS is allowed in surface courses. Department approved warm-mix additives is required for all surface mix application when RAP is used. Dosage rates will be approved during JMF approval.	Notify the Engineer at least 24 hours in advance of work for this item. Maintain removable and short-term markings daily. Remove within 48 hours after pe	rmanant strining has been compl
	NTROLS INSTALLED IN ACCESSIBLE AREAS.		The Hamburg Wheel Test will have a minimum rut depth of 3mm except for SMA with HPG or PG 76.	Item 668 is not allowed for use as Item 662.	
	CKFILL MATERIAL WILL BE TYPE B EMBANKMENT USING ORDINARY COMPACTION.			Roadways with existing profile pavement markings or rumble strips must supplement	work zono solid linos with traffic
	LLOW ITEM 752.4 WORK METHODS AND ITEM 752 GENERAL NOTES WHEN REMOVING		Mow strip riprap will be 4 in. and all other riprap will be 5 in. unless otherwise shown on the plans. Mow strip for cable barrier may be placed monolithically with the barrier foundations if using concrete in accordance with Item 543. Fiber reinforcement is not allowed except in mow strip for cable barrier if foundation and mow strip are placed	supplement the work zone markings will be paid by the each in addition to the work z	
CC	NSTRUCTION. TRIM OR REMOVE TO PROVIDE MINIMUM OF 5 FT. OF HORIZONTAL CLI		monolithically. GFRP is allowed reinforcement for all applications.	ITEM 666 - RETROREFLECTORIZED PAVEMENT MARKINGS Notify the Engineer at least 24 hr. before beginning work.	
	THS, GUARD FENCE, RAILS, SIGNS, OBJECT MARKERS, AND STRUCTURES. TRIM TO PRO BSIDIARY.	WIDE A MINIMUM OF 14 FI. VER I CAL CLEARANCE UNDER ALL TREES. THIS WORK IS	Saw-cut existing riprap then epoxy 12 in. long No. 3 or No. 4 bars 6 in. deep at a maximum spacing of 18 in. in each direction to tie new riprap to existing riprap. This work is subsidiary.	All projects, including resurfacing, must increase center-to-center width for center lin	a markings to 18 in unless the pla
	M 105 - REMOVING TREATED AND UNTREATED BASE AND ASPHALT PAVEMENT		Provide Type A Grade 3 or 5 flexible base for cement stabilized riprap. Compressive strengths for flexible base are waived.	Place longitudinal markings nightly for IH 35 main lanes or roadways with AADT great at the Contractor's option. Replace missing or damaged tabs nightly. If using tabs, pl	er than 100,000. Use of temporal
CH	STING TYPICAL IS BASED ON INFORMATION AVAILABLE. THIS TYPICAL MAY NOT ACCOL ANGE IN MATERIAL TYPE OR THICKNESS DOES NOT WARRANT ADDITIONAL PAYMENT.		SGT approach taper, paid for using mow strip item, will be installed using concrete, flexible base coated with SS-1 at a rate of 0.12 GAL/SY, or HMA Type B/C/D. Placement will be	for all weekend work. Failure to maintain tabs or place longitudinal markings by deac	
			ordinary compaction and does not require placement using an asphalt paver.	Place longitudinal markings no later than 7 calendar days after placement of the surfa	ce for roadways with AADT great
	M 134 - BACKFILLING PAVEMENT EDGES SEAL COAT IS FINAL SURFACE, INSTALL BACKFILL PRIOR TO PLACING SEAL COAT.		ITEM 460 - CORRUGATED METAL PIPE Field adjust pipe end to maintain the necessary slope. Field cutting of pipe end is allowed. Coat all field cuts with asphalt paint. Cut ditches to grade before laying pipe.	When the raised portion of a profile marking is placed as a separate operation from the	ne pavement marking, the raised
INS	TALL AT 3:1 SLOPE TO TIE INTO EXISTING TERRAIN AND APPLY EROSION CONTROL MA	TERIAL PER ITEM 300 AT RATE OF 0.12 GAL/SY.	ITEM 467 - SAFETY END TREATMENT	When using black shadow to cover existing stripe apply a non-retroreflective angular	
	R TY A BACKFILL, FURNISH FLEXIBLE BASE MEETING THE REQUIREMENT FOR ANY TYPE		Field adjust pipe end to maintain the necessary slope. Field cutting of pipe end is allowed. Coat all metal field cuts or exposed reinforcement with asphalt paint.	If Item 677 is not used prior to placement of black shadow, scrape the top of the mark the marking is subsidiary.	ing with a blade of large piece of
	RENGTHS AND WET BALL MILL FOR FLEXIBLE BASE ARE WAIVED FOR THIS TIEM. ALTERT ITERIAL FROM ITEM 351. THE ALTERNATE MATERIALS ARE NOT REQUIRED TO BE TESTE	NATE MATERIALS INCLUDE RAP, SALVAGED MATERIAL FROM ITEM 105, AND SALVAGED ED BUT VISUALLY VERIFIED AS 100% PASSING A 2.5 IN. SIEVE.	For all Type II SETs, provide riprap apron shown in the cast-in-place standards and precast riprap detail standard. This work is subsidiary.	ITEM 668 – PREFABRICATED PAVEMENT MARKINGS AND RUMBLE STRIPS	ave application chall be seen
	M 160 - TOPSOIL F-SITE TOPSOIL WILL HAVE A MINIMUM PI OF 25.		Cast-in-place or precast will be allowed unless stated otherwise.	For center line applications of preformed rumble strips on multilane undivided roadw	
	F-SITE TOPSOIL WILL HAVE A MINIMUM PI OF 25.		Provide continuous draw openings in slotted drainpipes.	For center line applications of preformed rumble strips on two lane two-way roadway rumble strip must not be placed in conflict with a broken/skip pavement marking.	י, מאטוינמנוטון צווטון אפ CONTINUOUS
C	TAIN APPROVAL OF THE ACTUAL DEPTH OF THE TOPSOIL SOURCES FOR BOTH ON-SITE		ITEM 479 – ADJUSTING MANHOLES AND INLETS Use style SL, per standard PSL, for capping inlets and manholes unless otherwise shown on the plans. The cap may be cast in place. The cap must be level and overhang 6 in.	For edge line applications of preformed rumble strips, use option 7 of standard RS(2)	unless option 8 required due to sl
	NSTRUCT TOPSOIL STOCKPILES OF NO MORE THAN FIVE (5) FEET IN HEIGHT.	AND OTTSTE SOURCES.	beyond the outside edge of the structure. Dowel or attachment of the cap to the existing structure is not required.	ITEM 672 - RAISED PAVEMENT MARKERS	
	S PERMISSIBLE TO USE TOPSOIL DIKES FOR EROSION CONTROL BERMS WITHIN THE RIC		ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING	Place Type I-C and II-C-R markers at 40 ft. spacing for all lane lines.	
	ED OR TRACK SLOPES WITHIN 14 DAYS OF PLACEMENT.	diff of wai, as directed.	For roadways without defined allowable closure times, nighttime lane closures will be allowed from 8 P to 6 A.	ITEM 677 - ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS Dispose of removed materials and debris at locations off the right of way.	
	LVAGE TOPSOIL FROM SITES OF EXCAVATION AND EMBANKMENT. MAXIMUM SALVAG	GE DEPTH IS 6 INCHES	Daytime or Friday night lane closures will not be allowed unless otherwise shown on the plans. One lane in each direction will remain open at all times for all roadways unless	Elimination using a pavement marking will not be allowed in lieu of methods listed in	specification.
	NDROWING OF TOPSOIL OBTAINED FROM THE RIGHT OF WAY (ROW) IS NOT ALLOWED		otherwise shown on the plans.	Remove pavement markings on concrete surfaces by a blasting method. Flail milling v	vill be allowed when total quanti
	M 164 – SEEDING FOR EROSION CONTROL	-	No closures will be allowed on the weekends, working day prior, and working day after the National Holidays defined in the Standard Specifications, Good Friday, and Easter weekend.	Strip seal is only method allowed on seal coat surface unless project includes placeme	
HY	DRO MULCH SEEDING WILL BE ALLOWED AS A SUBSTITUTE FOR DRILL SEEDING IF PLAC	CED OCTOBER 1 THRU JANUARY 31. IT MAY ONLY BE SUBSTITUTED IN AREAS WITH A OTTOM OF A DITCH OR CHANNEL. PAYMENT WILL BE MADE USING THE EXISTING DRILL	No closures will be allowed 1 P.M. to 11 P.M. the Sunday of the Super Bowl.	elimination using a pavement marking is allowed if a test section is approved by the E pavement color.	ngineer. Test section shall demoi
SE	ED ITEM.		Time charges will not be suspended during the large and special events listed below. These events are provided in the contract to allow scheduling of work around these lane	Remove pavement markings outside the limits of the new surface by a blasting metho	d.
	M 168 – VEGETATIVE WATERING ATER ALL AREAS OF PROJECT TO BE SEEDED OR SODDED.		closure restrictions.	Use a TRAIL or a non-retroreflective paint to cover stripe remnants that remain after o	limination.
M	NINTAIN THE SEEDBED IN A CONDITION FAVORABLE FOR THE GROWTH OF GRASS. WA	TERING CAN BE POSTPONED IMMEDIATELY AFTER A RAINFALL ON THE SITE OF ½ INCH	One-way traffic control, including work performed under Item 510, must be set up to provide a maximum of 20 minutes of delay to the traveling public.	The test requirements for these materials are waived. The paint color shall be adjuste	d to resemble the existing pavem
	GREATER, BUT WILL BE RESUMED BEFORE THE SOIL DRIES OUT. CONTINUE WATERING		Submit an emailed request for a lane closure (LCN) to TxDOT. The email will be submitted in the format provided. Receive concurrence prior to implementation. Submit a cancellation of lane closures a minimum of 18 hours prior to implementation. Blanket requests for extended periods are not allowed. Max duration of a request is 2 weeks prior	ITEM 730 – ROADSIDE MOWING Perform roadside mowing along the Roadway for the length of the project, as directer	4
3-1	GETATIVE WATERING RATES AND QUANTITIES ARE BASED ON ½ INCH OF WATERING PI /IONTH WATERING CYCLE. THE ACTUAL RATES USED AND PAID FOR WILL BE AS DIRECT		to requiring resubmittal.	Complete spot mowing, as directed.	
	EDBED.		Provide 2-hour notice prior to implementation and immediately upon removal of the closure.	ITEM 734 - LITTER REMOVAL	
SH		F THE METER BEING USED) OR FURNISH THE MANUFACTURER'S SPECIFICATIONS AY THAT WATERING TAKES PLACE, BEFORE WATERING, SO THAT METER READINGS OR	For all roadways: Submit request for traffic detours and full roadway closures 168 hours prior to implementation. Submit request for nighttime work 96 hours to implementation date.	Complete Litter Removal Cycles along the Roadway for the length of the project, as di	rected.
	UCK COUNTS CAN BE VERIFIED.		Cancellations of accepted closures (not applicable to full closures or detours) due to weather will not require resubmission in accordance with the above restrictions if the work	Complete Litter Removal Cycles prior to any mowing cycles.	
	M 169 – SOIL RETENTION BLANKETS PE A BLANKETS CONTAINING STRAW FIBERS ARE NOT ALLOWED. TYPE B AND D BLANKI	ETS SHALL BE A SPRAY TYPE BLANKET.	is completed during the next allowable closure time.	Remove all litter on the right of way, within project limits.	
	M 204 - SPRINKLING		Closures that conflict with adjacent contractor will be prioritized according to critical path work per latest schedule. Conflicting critical path or non-critical work will be approved for first LCN submitted. Denial of a closure due to prioritization or other reasons will not be reason for time suspension, delay, overhead, etc.	ITEM 738 – CLEANING AND SWEEPING HIGHWAYS Complete cleaning and sweeping cycles at the intervals, as directed. Complete one cy	cle at the end of construction and
	PLY DUST CONTROL TO HADL ROADS, CONSTRUCTION TRAFFIC ROUTES, STAGING ARE DIRECTED. IF DUST CONTROL IS NOT BEING MAINTAINED, THE DEPARTMENT MAY CEA	AS, FIELD OFFICE AREAS, MATERIAL STORAGE AREAS, PARKING AREAS, AND STOCKPILES ASE OPERATIONS UNTIL DUST IS CONTROLLED. THIS WORK IS SUBSIDIARY.	Consider inclement weather prior to implementing the lane closures. Do not set up traffic control when the pavement is wet.	ITEM 752 - TREE AND BRUSH REMOVAL	
	M 216 - PROOF ROLLING RRECT AND PERFORM "PROOF ROLLING" RETEST AT THE CONTRACTOR'S EXPENSE. TO		Install all permanent signs, delineation, and object markers required for the operation of the roadway before opening to traffic. Use of temporary mounts is allowed or may be	(Blind Note: Required for all projects that include Item 100.) Follow Item 752.4 Work Methods and Item 752 general notes when removing or worl	ing on or near trees and brush ev
	LING RESULT.	THE SATISFACTION OF THE ENGINEER, WHEN INITIAL PROOF ROLLING TIELDS A	required until the permanent mounts are installed or not impacted by construction. Maintain the temporary mounts. This work is subsidiary.	Flailing equipment is not allowed. Burning brush is not allowed in urban areas or on F	-
	M 247 - FLEXIBLE BASE E LAYER THICKNESS WILL BE 4 IN. TO 6 IN. UNLESS SHOWN ON THE PLANS. PLACING IN	A SINGLE LAVER IS ALLOWED WHEN TOTAL THICKNESS OF RASE IS & IN. OR LESS	Edge condition treatment types must be in accordance with the TxDOT standard. Installation and removal of a safety slope is subsidiary.	is impractical.	
W		T LEAST 95% AND 98% OF THE MAXIMUM DRY DENSITY, RESPECTIVELY. WHEN PLACED	To determine a speed limit or an advisory speed limit, submit a request to TxDOT 60 business days prior to manufacture of the sign.	Prior to begin tree pruning, send email confirmation to the Engineer that training and subsidiary.	demonstration of work methods
	RRECTION OF SUBGRADE SOFT SPOTS IS SUBSIDIARY.		For non-site-specific signal projects, 2 months of barricades will be paid per work order location.	Shredded vegetation may be blended, at a rate not to exceed 15 percent by volume,	vith Item 160 if the maximum din
	MPLETE PER PLANS THE SUBGRADE, DITCHES, SLOPES, AND DRAINAGE STRUCTURES P	RIOR TO THE PLACEMENT OF BASE.	ITEM 506 - TEMPORARY EROSION, SEDIMENTATION, AND ENV CONTROLS If SW3P plan sheets are not provided, place the control measures as directed.	ITEM 3084 – BONDING COURSE	
	NOT USE A VIBRATORY ROLLER TO COMPACT BASE PLACED DIRECTLY ON TOP OF A DF		Install, maintain, remove control measures in areas of the right of way utilized by the Contractor that are outside the limits of disturbance required for construction.	The minimum application rates are listed in Table BC. Miscellaneous Tack is allowed to course item.	or use with dense-graded Type B
GR	ADE 4 WILL HAVE THE SAME MATERIAL REQUIREMENTS AS GRADE 5 EXCEPT MINIMUR	M COMPRESSIVE STRENGTH AT LATERAL PRESSURE 3 PSI WILL BE 70 PSI AND AT	Permanently stabilize the area. This work is subsidiary.	The target shear bond strengths are listed in Table BCS. The informational test cores s	hall be taken once a shift for first
LA	TERAL PRESSURE 15 PSI WILL BE 150 PSI. GRADE 4 DOES NOT HAVE A MINIMUM COMP		Erosion control measures must be initiated immediately in areas where construction activities have ceased and will not resume for a period exceeding 14 calendar days. Vertical track all exposed soil, stockpiles, and slopes. Re-track after each rain event or every 14 days, whichever occurs first. Sheep foot roller is allowed for vertical tracking. This work is	bonding course, bonding material, or hot mix material. The remaining informational t required for non-surface mix beyond the first 5 lots unless there is a change to placen	est cores shall be taken once ever
	MS 260 THRU 276 – SUBGRADE TREATMENTS AND BASE E ORDINARY COMPACTION FOR SUBGRADE TREATMENT.		subsidiary.	informational tests will not be used for specification compliance.	
PR	OVIDE SOIL AND BASE SAMPLES 5 BUSINESS DAYS PRIOR TO PERFORM TREATMENT W	ORK TO ALLOW TIME TO TEST SOIL AND CONFIRM TREATMENT RATE.	For routine or anticipated dewatering, notify the engineer 72 hours before beginning dewatering. Notify the Engineer within 1 hour of beginning emergency or recent rainfall dewatering. Water located within the ROW that will leave the ROW must appear free of pollutants such as suspended sediment, oil sheen, floating solids, etc. Dirty water must	Table B Material	Minimum Applicat
	M 3005 – SURFACE COURSES AND PAVEMENTS		pass thru adequate BMPs prior to leaving the ROW to prevent discharge of dirty water. Bypass pumping of water found in a navigable waterway that enters from outside the ROW and is discharged downstream of the ROW will not require the use of BMPs. Dewatering BMPs will be paid for in conformance with the applicable bid items. However, if	TRAIL – Emulsified Asphalt	(gal. per square 0.06
	R SEAL COAT APPLICATIONS: ASPHALT CEMENTS, CUTBACK, PERFORMANCE-GRADED A RIL 1 THRU OCTOBER 15.	איי יישרי אראסטע וא אואר ד דוחרט אבידיבועוסביג דא. בואוטראדובע אאידארון אבאטארא איז איז איז איז איז איז איז אי איז איז איז איז איז איז איז איז איז איז	the necessary BMP item is not included in the Contract, payment for the BMP will be in accordance with Article 9.7., "Payment for Extra Work and Force Account Method." The act of dewatering and the equipment used to dewater will not be paid for directly but will be subsidiary to pertinent bid items.	TRAIL – Hot Asphalt Spray Applied Underseal Membrane	0.12 0.10
TH	E LATEST WORK START DATE FOR ASPHALT SEASON IS AUGUST 1 WHEN A DATE IS REQ	QUIRED PER SPECIAL PROVISION TO ITEM 8.1.	Unless a specific pay item is provided in the plans, the installation of the 6:1 or flatter for RFD side slopes in the safety zone will be subsidiary to pertinent bid items.		
	ERLAY AND SEAL COAT PROJECTS MUST INCLUDE PLACEMENT OF SURFACE MATERIAL THS WITHOUT A PAVEMENT STRUCTURE. APPLY A NEW SURFACE AND MATERIAL AS N	ON THE EXISTING MAILBOX TURNOUTS, INCLUDING TURNOUTS THAT ARE WORN VECESSARY TO CREATE A MAILBOX TURNOUT WITH A CROSS SLOPE THAT MATCHES THE	Cover small waste containers (100 gallons or less) at all times. This work is subsidiary. Large waste containers (more than 100 gallons) must have a secondary discharge	Table BCS (For Inform Material	Target Shear Bond S
	JACENT PAVEMENT. PAYMENT OF WORK WILL BE IN ACCORDANCE WITH THE ITEM FO		containment system around the container using erosion control logs. Installation of the log for each container location will be paid using existing bid items. Repair, remove, or replace of the log during exchange of empty/full containers at the same location will not be paid.	SMA – Stone-Matrix Asphalt	(Tex-249-F ps 60.0
ITE	M 310 – PRIME COAT		Portable restrooms must be located more than 50 ft. from a waterway. Tie or stake down portable restrooms to prevent tipping due to vandalism or weather. This work is	PFC – Permeable Friction Course All Other Materials	N/A 40.0
	PLY BLOTTER MATERIAL TO ALL DRIVEWAYS AND INTERSECTIONS. THIS WORK IS SUBSI	IDIARY.	subsidiary.		
W	HEN MULTI OPTION IS ALLOWED, PROVIDE MC 30, EC 30 OR AE-P. MC 30 IS NOT ALLOV	WED IN TRAVIS COUNTY.	Provide a designated location for disposal when excess and waste, including waste generated from cleaning of all equipment used for mixing, hauling, and transfer concrete is disposed in the ROW or PSL. Manufactured disposal containers must be metal or a plastic material with minimum 10 mil thickness. Paper, earthen berms, or pits must be lined	ITEM 3085 – UNDERSEAL COURSE No emulsified asphalt material allowed under PFC or SMA, except for use with Item 3	L6, on roadways with ADT greater
	LLING TO ENSURE PENETRATION IS REQUIRED.		with minimum 10 mill thickness polyethylene sheeting. Disposal locations must be located a minimum of 50 ft. from a waterway, tree, or sensitive feature. The disposal location must have a minimum height of 6 in. Maintain a minimum 4 in. of freeboard at all times. Disposal locations are not required for cleaning of small hand tools. Hardened concrete waster may be used as an backmast if along in accordance with term 122.	The minimum application rates are listed in Table UC. The target shear bond strength	
	M 314 - EMULSIFIED ASPHALT TREATMENT DCESS THE TOP 1.5 INCHES OF BASE MATERIAL. USE 30% OF TOTAL VOLUME EMULSIF	IED ASPHALT IN THE MIXTURE.	waste may be used as embankment if placed in accordance with Item 132.	lots of placement or a change to placement method of bonding course, bonding mate lots for surface mix. Informational tests are not required for non-surface mix beyond	the first 5 lots unless there is a ch
US	E EMULSIFIED ASPHALT, AEP OR EQUAL, FOR DUST CONTROL. THIS WORK IS SUBSIDIA	RY.	Dust Control Stockpiles that will be inactive for greater than 14 days must be treated to contain dust by covering with chemical dust suppressant, soil blanket, vertical tracking, or method other than orginalized with water. Stockpiles that are actively being used must be treated to contain dust by uvertical tracking or a method determined by the Contractor. This	material, or hot mix material. Results from these informational tests will not be used	ior specification compliance.
	M 316 – SEAL COAT		other than sprinkling with water. Stockpiles that are actively being used must be treated to contain dust by vertical tracking or a method determined by the Contractor. This work is subsidiary.		
	SURE THAT ALL UNDERSEALS ARE COVERED BY HMACP BEFORE EXPOSING TO TRAFFIC	· · ·	Provide designated construction traffic routes when feasible. Construction site traffic must be directed to use designated routes.		
	GREGATES (MULTI OPTION) FOR SEAL COATS NOT EXPOSED TO TRAFFIC AND UNDERSI	EALS SHALL BE TYPE E, PA, PB, A OR B. THE GRADE SHALL RANGE BETWEEN 4 AND 5.	ITEM 530 – INTERSECTIONS, DRIVEWAYS, AND TURNOUTS		
	E A MEDIUM PNEUMATIC ROLLER IN ACCORDANCE WITH ITEM 210.		Notify property owners at least 48 hr. before beginning work on their driveway. Use a means and methods to construct the driveway while maintaining access to the property at all times. Full closure of a driveway is allowed for reconstruction if duration and alternate access are approved by Engineer. Install and maintain material across a work zone as		
	RFACE ALL TRANSITIONS, TAPERS, CLIMBING LANES AND INTERSECTIONS TO THE LIMIT		temporary access. This work is subsidiary.		
VE	MOVE AND DISPOSE OF OFF THE ROW THE AUDIBLE/PROFILE MARKINGS, REFLECTORIZ GETATION. ANY AREAS WITH EXCESSIVE ASPHALT OR AGGREGATE WILL BE REMOVED. OUI DEP LIP TO TWO WEEKS AFTER COMPLETING THE WORK. THIS WORK IS SUBSIDIAL	. CONTINUE SWEEPING EXCESS AGGREGATE OFF THE ROADWAY, RIPRAP, AND	The following typical section notes apply to all driveways and turnouts: For ACP or SURF TREAT, the pavement structure will match the adjacent roadway unless detailed on the plans. HMA, including surface, may use a maximum allowable quantity of 40% PAP and E% PAS for rejusted driveways, public driveways for 2 lane roadways or smaller, and turnouts. Planding of 2 or more surges in allowed		
	OULDER UP TO TWO WEEKS AFTER COMPLETING THE WORK. THIS WORK IS SUBSIDIA		of 40% RAP and 5% RAS for private driveways, public driveways for 2-lane roadways or smaller, and turnouts. Blending of 2 or more sources is allowed.		
	HEN A NEW LAYER OF HMA IS PLACED UNDER A SEAL COAT SURFACE, PROVIDE A RIDE ACEMENT OF THE SEAL COAT SURFACE. THIS WORK IS SUBSIDIARY.	QUALITE ON THE FOR LATER OF HIM AN ACCORDANCE WITH ITEM 247 BEFORE	For CONC, the pavement structure will be 6 in. thick and have 3 in. flexible base bedding unless detailed on the plans. Driveways that are public (county road and city street) the pavement structure will match the adjacent roadway.		
	MS 341, 344, & 3076 THRU 348/3082 - HOT-MIX ASPHALT PAVEMENT		ITEMS 540, 542, & 544 - METAL BEAM GUARD FENCE AND GUARDRAIL END TREATMENTS		
0	RE HOLES MAY BE FILLED WITH AN ASPHALTIC PATCHING MATERIAL MEETING THE REC		Furnish round timber posts for guard fence. Steel posts for low fill culvert applications is subsidiary including use of low fill culvert application due to other concrete structures such as inlets. Long span application at inlets may be used as an alternate to low fill culvert. Unless otherwise specified on the plans, use of low fill culvert or long span at inlets		
	MOVE AND DISPOSE OF OFF THE ROW THE AUDIBLE/PROFILE MARKINGS, REFLECTORIZ		will be subsidiary to pertinent items. Stake the locations for approval before installation. Adjust the limits of the fence to meet field conditions. Install delineators before opening the road to traffic.		
INC		C CHILLENGTING SOUTHEL INSTALL & DUTT JOINT WITH 24 IN. R. 1 IN. V			

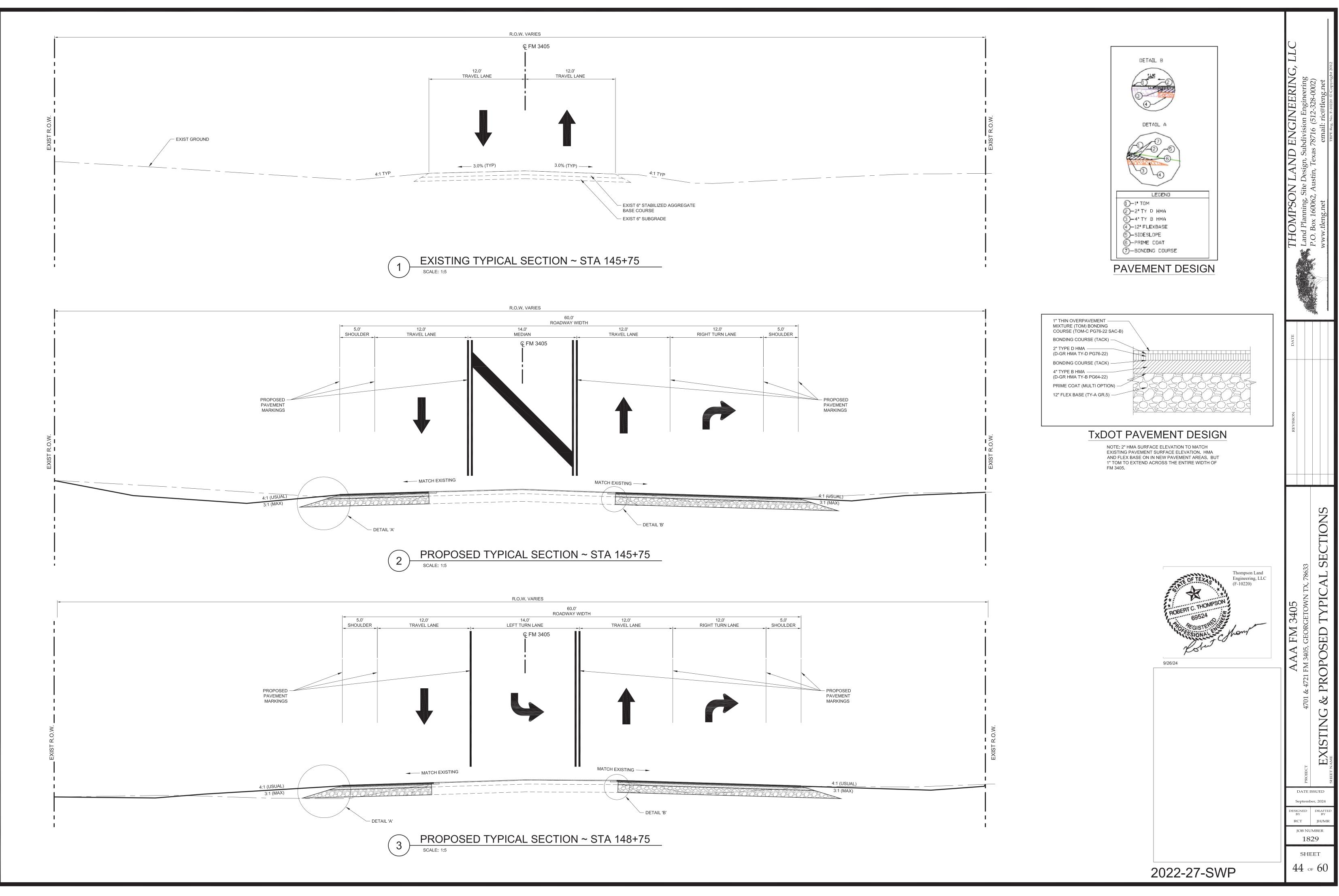
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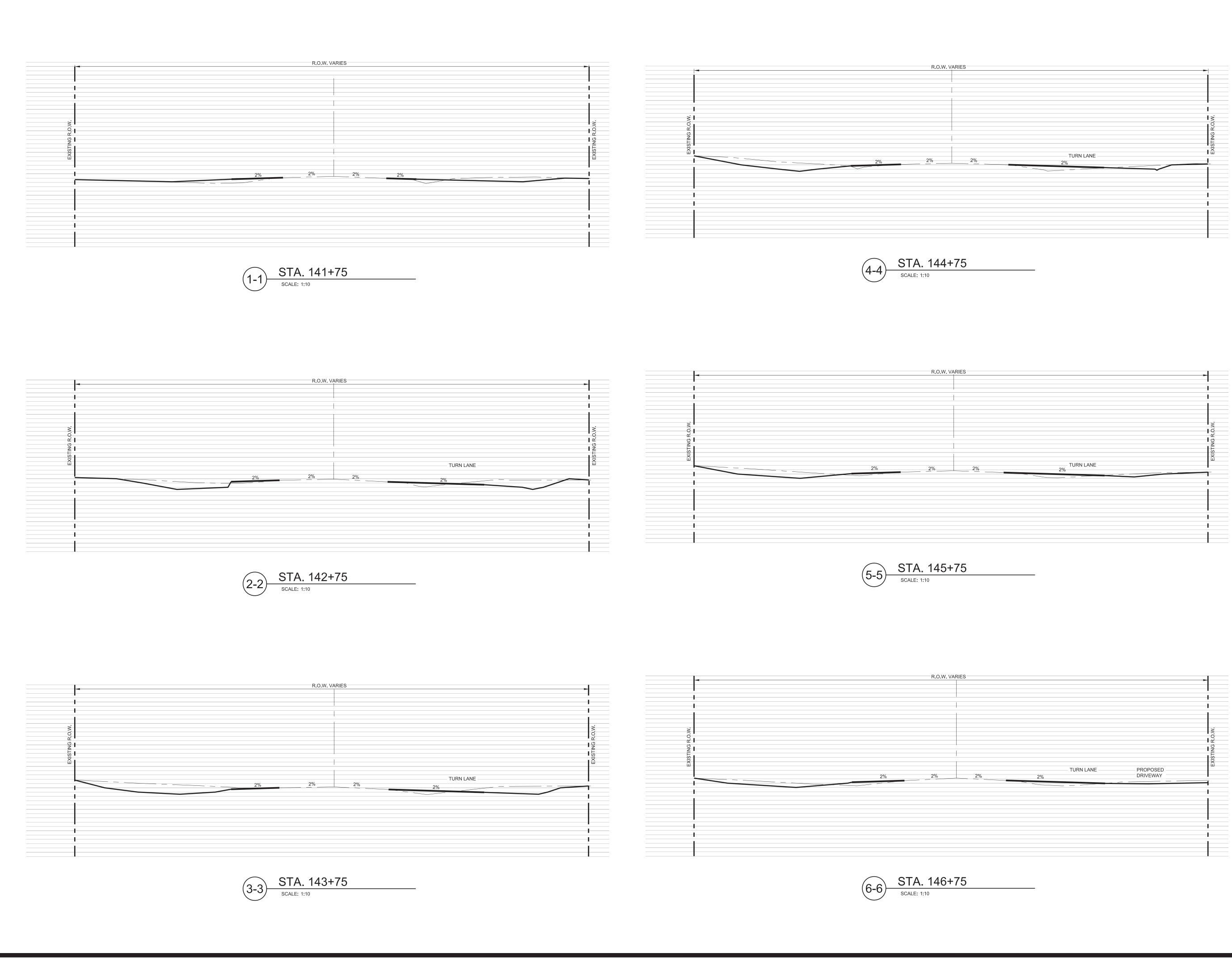
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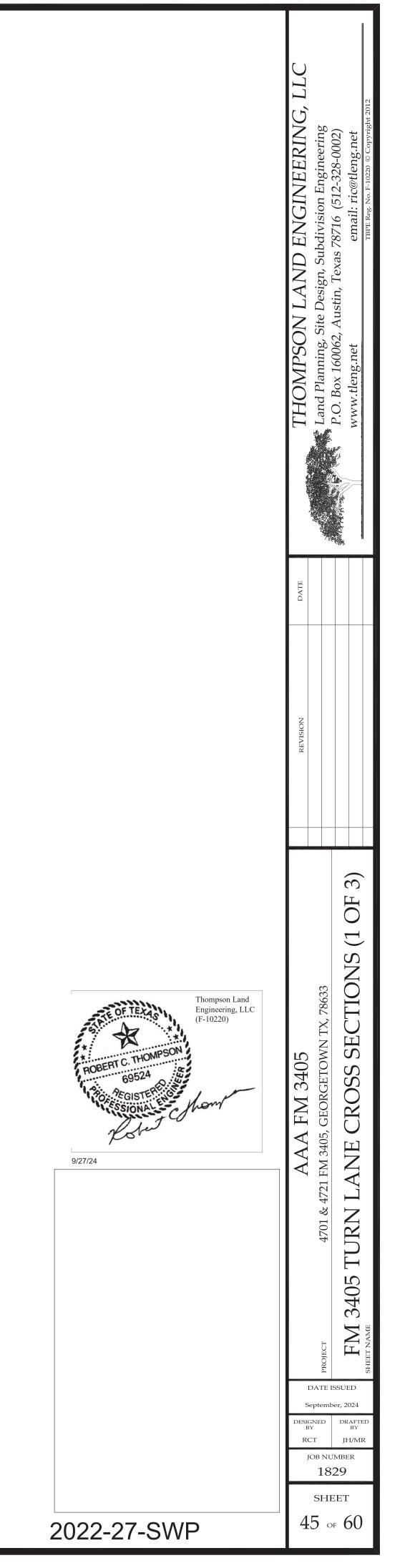
rial will be from this project and in compliance with current	CONT'D	Tab	ble UC					
dance with Section 540.3.5. Punch or field drill holes in the ace the field holes in accordance with the latest standard but no	Material	Minimum Ap (mat >1" gal. p	plication Rate er square yard)	Minimum Application Rate (mat <= 1" gal. per square yard)				
uts with class B concrete. This work is subsidiary.	TRAIL – Hot Asphalt Spray Applied Underseal Membrane Seal Coat – Tier II emulsion	0.	15 15 25	0.10 0.15 0.25		Ŋ		
, with appropriate bid items. Backfill and shoulder up of area	Seal Coat – Tier II asphalt	0.	23	0.23				0
	Mater		e UCS Minimum Sh (p			Ú	h .e.	sht 201
	SMA – Stone-Matrix Asphal PFC – Permeable Friction Co		60 40	0.0		K.	sring 202)	ng.net © Copyright 2012
tches the color of the reflector. Field painting is not allowed.	All Other Materials			0.0		JINEERI	on Engineering (512-328-0002)	eng.
	In addition to tack coat materials listed in the spec, I will not be allowed.			22; or hot asphalt TRAIL material may be	e furnished. Emulsions			ic@t] o. F-102
	Do not apply tack coat on top of geogrid.					B		
	In lieu of 5 projects in 3 years, the installer may prov	ide a minimum of 250,000 SY o	f installation within the past 3	years.		EN	bdivisi 78716	ema
completed.						AN.	Site Design, ,, Austin, Te)	
traffic buttons spaced at 12 in. Traffic buttons used to						N L	site Desig Austin,	
							3, Sit 62, A	
the plans or existing is greater than 18 in.						SMPS(Planning, 30x 160062	g.ne
nporary flexible reflective roadway marker tabs is subsidiary and veekly by 5 AM Friday for all weekday work and by 5 AM Monday							Plar 30x]	tlen
cement of longitudinal markings. Fgreater than 20,000.						THC	Land Planning, S P.O. Box 160062,	www.tleng.net
raised portion must be placed first then covered with TY I.								A
arking color shall be adjusted to resemble the pavement color. iece of equipment unless surface is a seal coat. The scraping of								
ntinuous even if profile markings are present.								
inuous even if profile markings are present. The preformed								
ie to shoulder width.								».
						IE		
						DATE		
quantity of removal on concrete surfaces is less than 1000 ft. al quantity of removal on a seal coat surface is less than 2000 ft.,								
demonstrate the thermo marking color matches the existing								
pavement color. Installation and maintenance is subsidiary.						REVISION		
pavement color. Installation and maintenance is subsidiary.						REVI		
ion and prior to final acceptance by the Department.								
rush even if Item 752 is not included as a pay item. r other means of removal if doing work by mechanical methods								
thods has been provided to the employees. This work is								
um dimension is not greater than 2 in.							633	ES
Type B HMA. If a tack bid item is not provided, use bonding							X, 78	DT
or first 5 lots of placement or a change to placement method of ce every 3 lots for surface mix. Informational tests are not							T NV	NC
re every a lots for surface mix. Informational tests are not urse, bonding material, or hot mix material. Results from these						3405	TOV	L
pplication Rate						134	4701 & 4721 FM 3405, GEORGETOWN TX, 78633	GENERAL NOTES
square yard) 0.06						FM	GEC	Υ Η
0.12						AA	3405,	E
Bond Strength			[]	AA	FM3	
49-F psi) 10.0							4721	TXDOT
N/A 0.0							11 & 4	Θ
greater than 100,000.							47(Ê
ne informational test cores shall be taken once a shift for first 5								
ne remaining informational test cores shall be taken once every 3 is a change to placement method of bonding course, bonding te.								
							CT.	NAME
	Г						PROJECT	SHEET NAME
	OF TEXA	Thompson Land Engineering, LI	d LC			Dź	ATE ISSU	
		(F-10220)				DESIGN		DRAFTED
	ROBERT C. THOMPS	ON				BY RCT		JH/MR
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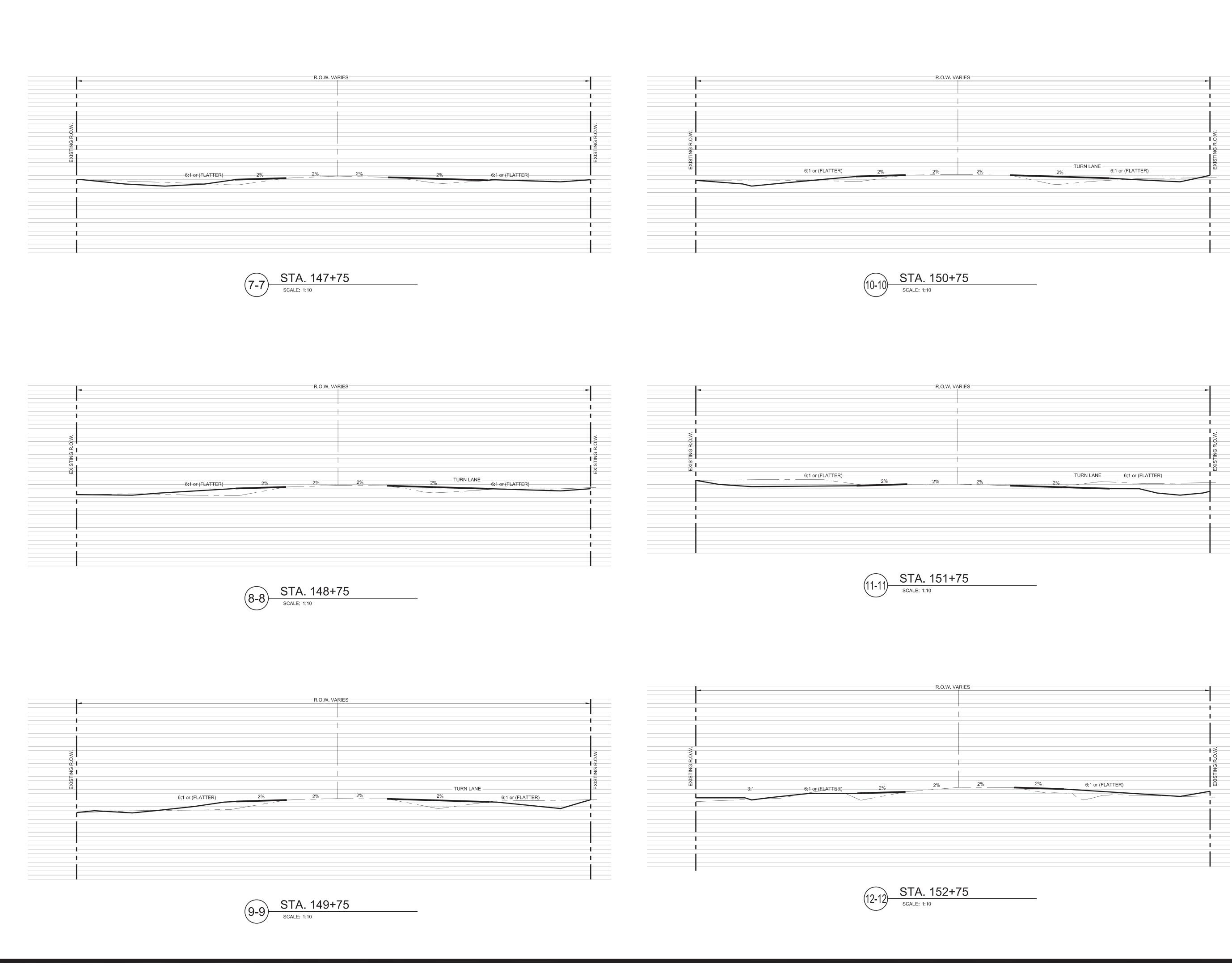






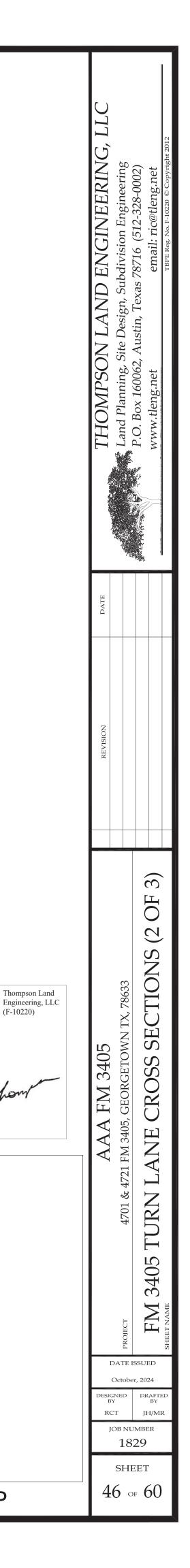


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TURN LANE	
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JE		EXISTING R.O.W.
6:1 or (FL	ATTER)	

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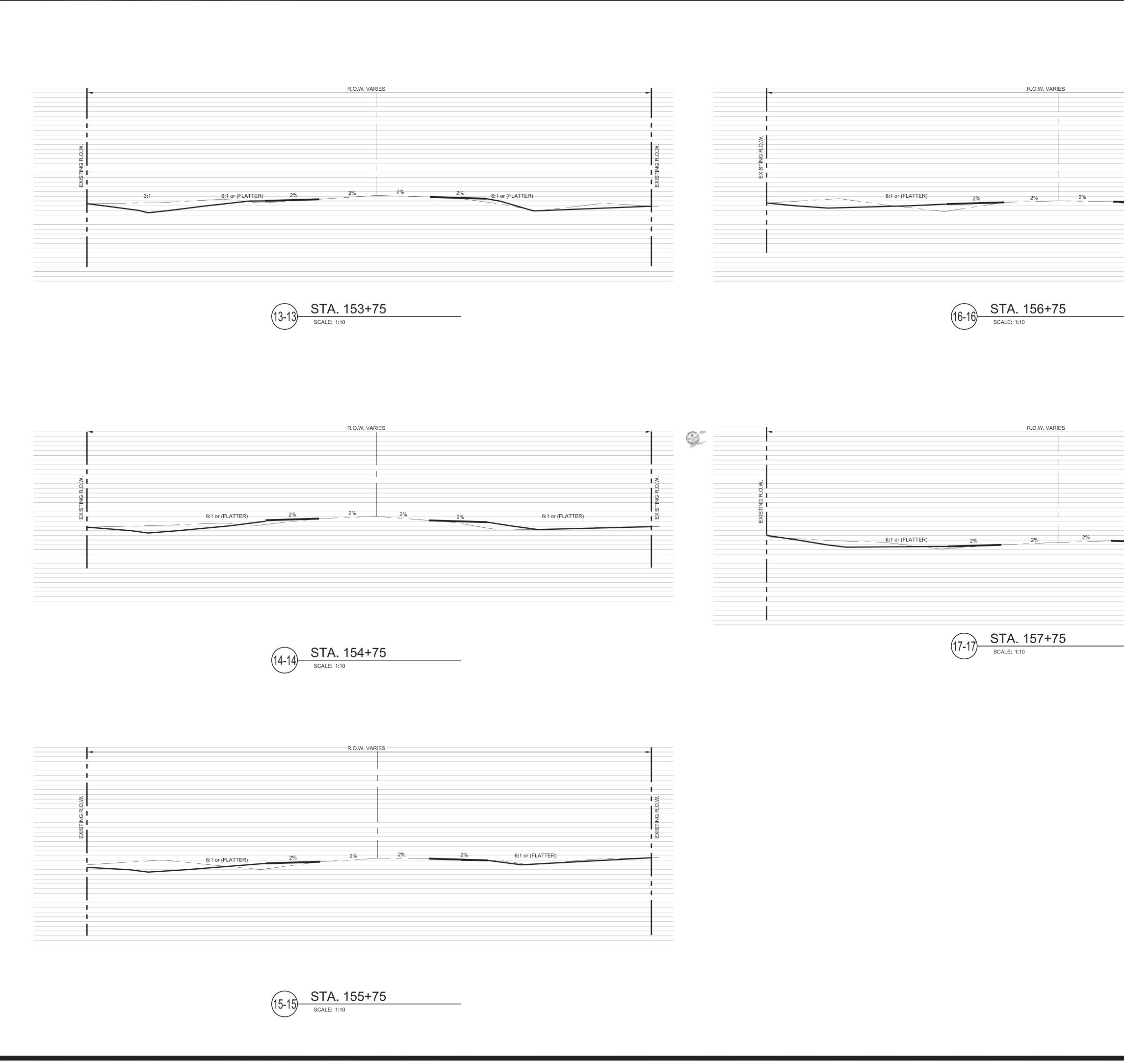
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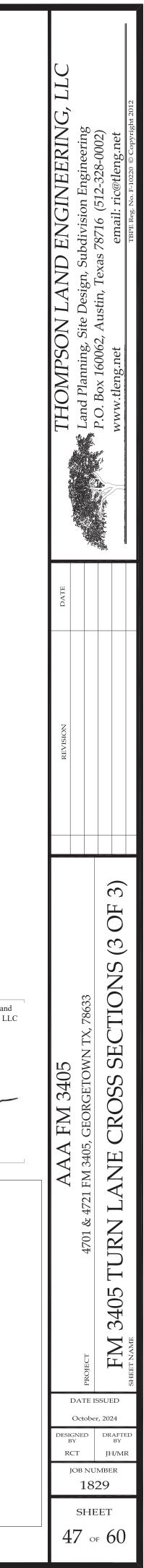
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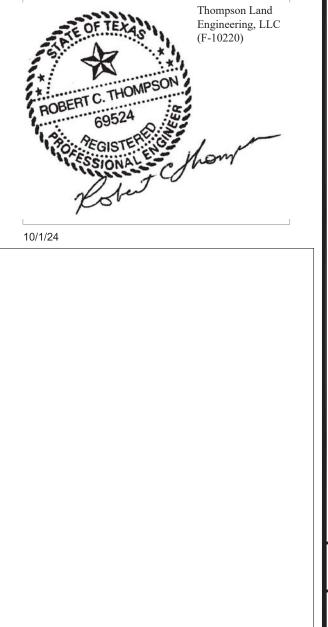
	6:1 or (FLATTER)	EXISTING R.O.W.

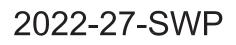




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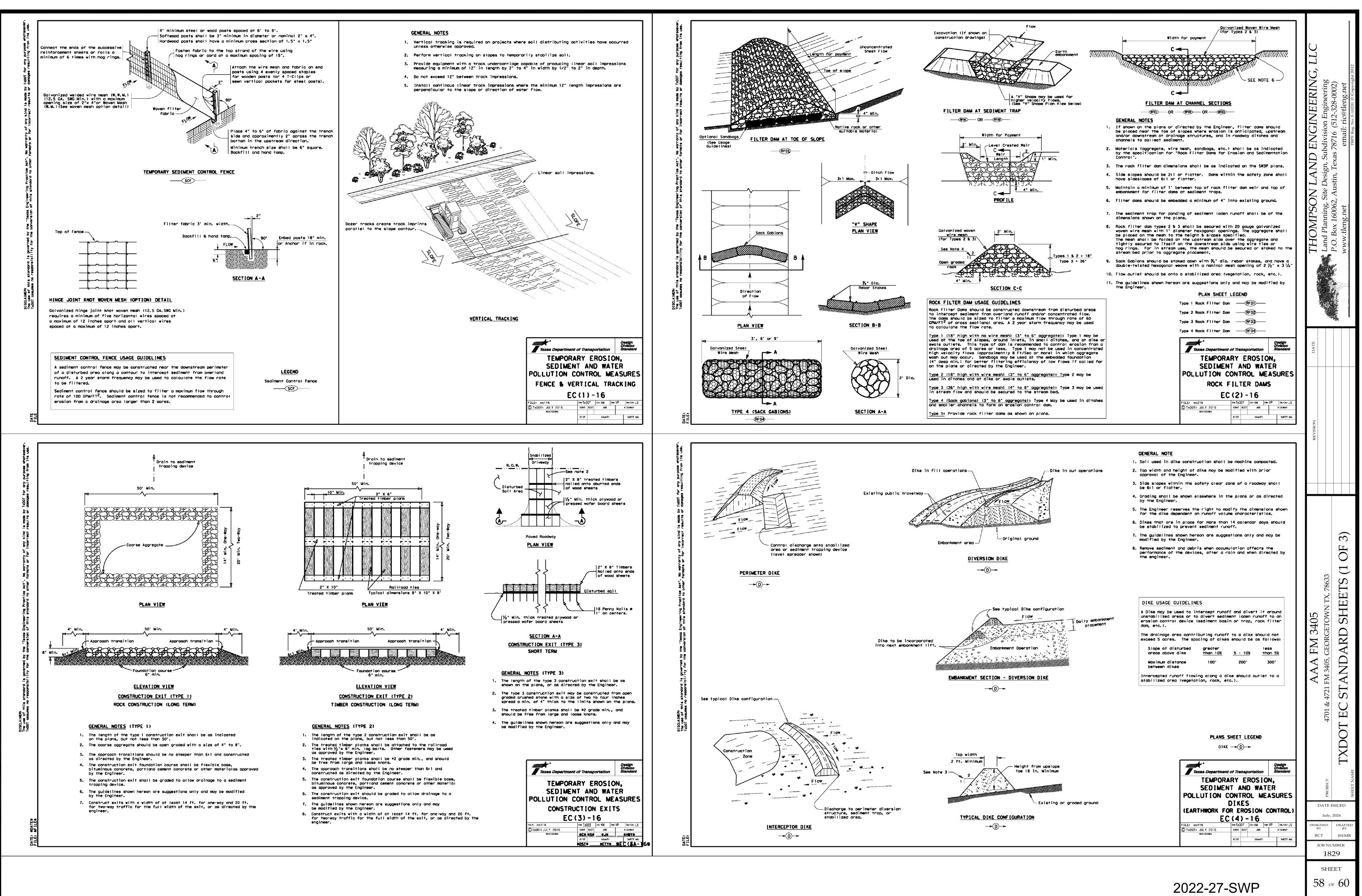


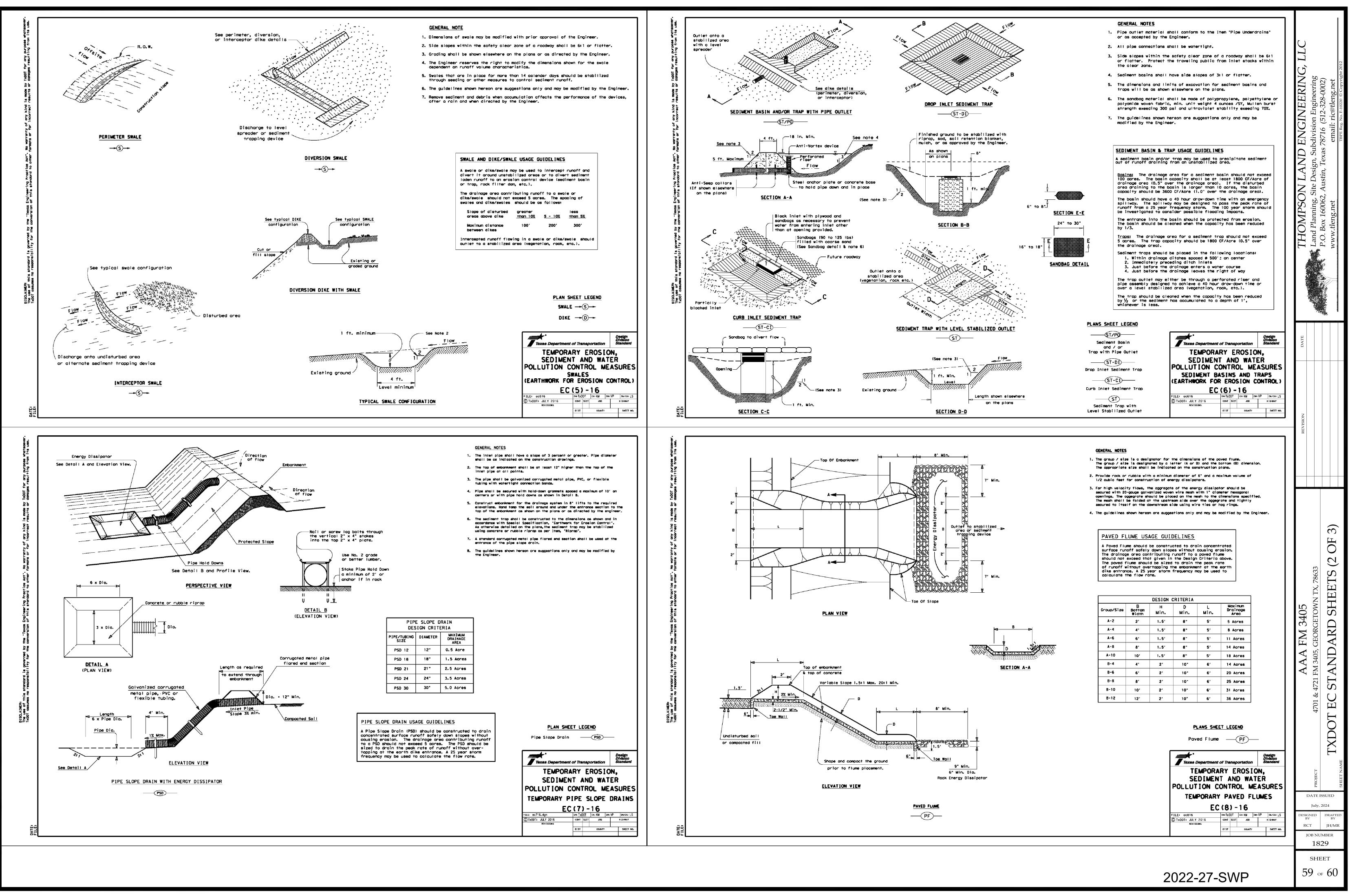
STORMWATER POLLUTION PREVENTION PLAN (SWP3): This SWP3 has been developed in accordance with the TPDES Construction General Permit TXR150000 (CGP). The Texas Department of Transportation (TxDOT) ensures that project specifications include adequate best management practices (BMPs) for this project. For all projects with soil disturbing activity and for projects that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically. This SWP3 is consistent with requirements specified in applicable stormwater plans and the projects environmental permits, issues, and commitments (EPICs). A copy of the CGP is included in Attachment 2.12 of the SWP3 binder.	T.B PROJECT SPECIFIC LOCATIONS (PSLs): PSLs must be depicted on the Environmental Layout St in Attachment 1.2 of this SWP3. PSLs may be identified preconstruction meetings or during the construction process. Please choose from the options below:	during	 1.10 POTENTIAL POLLUTANTS AND SOURCES: a Sediment laden stormwater from stormwater conveyance over disturbed area Fuels, oils, and lubricants from construction vehicles, equipment, and storage Solvents, paints, adhesives, etc. from various construction activities Transported soils from offsite vehicle tracking Construction debris and waste from various construction activities Contaminated water from excavation or dewatering pump-out water Sanitary waste from onsite restroom facilities Insub from various construction activities, runoff from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities. 	1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR ^M Day To Day Operational Control ^M Submit Notice of Intent (NOI) to TCEQ (≥5 acres) ^M Submit Notice of Intent (NOI) to TCEQ (≥5 acres) ^M Post Construction Site Notice ^M Reintrain schedule of major construction activities ^M Install, maintain and modify BMPs ^M Complete and submit Notice of Termination to TCEQ ^M Maintain SWP3 records for 3 years Other: Otheret: Other: Other:
1.0 SITE/PROJECT DESCRIPTION 1.1 PROJECT CONTROL SECTION JOB (CSJ): 1755-3-10 1.2 PROJECT LIMITS:			Other: Other: Other:	1.14 LOCAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) OPERATOR COORDINATION: MS4 Entity NOT APPLICABLE; NONE
From: STATION 138+00.00 To: STATION 163+00.00 To: STATION 163+00.00 1.3 PROJECT COORDINATES: BEGIN: (Lat) BEGIN: (Lat) .(Long) BEGIN: (Lat) .(Long) BEGIN: (Lat) .(Long) BEGIN: (Lat) .(Long) END: .(Long) I.1 OTAL PROJECT AREA (Acres):	All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project. 1.9 CONSTRUCTION ACTIVITIES: (Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.5.) Didde existing theorem and erosion controls Didde existing theorem and erosion cont		1.11 RECEIVING WATERS: Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters. NORTH FORK SAN GABRIEL RIVER SAN GABRIEL RIVER SAN GABRIEL RIVER	
	 Bradie existing pavement Grading operations, excavation, and embankment Grading operations, excavation, and embankment Excavate and prepare subgrade for proposed paveme widening Excavate and prepare subgrade for proposed paveme widening Remove existing culverts, safety end treatments (SET Remove existing metal beam guard fence (MBGF), bri Install proposed pavement per plans Install culverts, culvert extensions, SETs Install now strip, MBGF, bridge rail Place flex base Blade windrowed material back across slopes Rework slopes, grade ditches Blade windrowed material back across slopes Chier: Other: 	reproved pavement posed pavement eatments (SETs) nce (MBGF), bridge rail rs slopes slopes	* Add (*) for impaired waterbodies with pollutant in (). * Add (*) for impaired waterbodies with pollutant in (). 1.12 ROLES AND RESPONSIBILITIES: TXDOT % Development of plans and specifications % Submit Notice of Intent (NOI) to TCEQ (≥5 acres) % Post Construction Site Notice % Submit NOI/CSN to local MS4 % Perform SWP3 inspections % Maintain SWP3 records and update to reflect daily operations % Complete and submit Notice of Termination to TCEQ % Maintain SWP3 records for 3 years © Other:	STORMWATER POLLUTION STORMWATER POLLUTION PREVENTION PLAN (SWP3) Image: Street Plan (SWP3)
				CDNT. SECT. JOB HIGHMAY NO.
STORMWATER POLLUTION PREVENTION PLAN (SWP3): 2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of ension and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP. 2.1 EROSION CONTROL AND SOIL STABILLZATION BMPs. 7.1 P 0.1 Soil Retention Blankets 0.1 Soil Retention Blankets 0.2 Soil Retention Blankets 0.3 Soil Retention Blankets 0.4 Soil Surface Treatments 0.5 Soil Retention Blankets 0.5 Soil Surface Treatments 0.5 Soil Surface Treatments	Sediment control BMPs requiring design capacity calcula (See SWP3 Attachment 1.3.): T / P T / P Calculated volume runoff from 2-year, 24-hour for each acre of disturbed area 3,600 cubic feet of storage per acre drained Not required (>10 acres) and implemented. Required (>10 acres) and implemented. Available area/Site geometry Site slope/Drainage per acre drained Available area/Site geometry Site slope/Drainage patterns Vener: Other: Other: Under: Site slope/Drainage patterns Site slope/Drainage patterns Under: Other: Differ post-construction BMPs with appropriate TxL maintenance sections.) BMPs To Be Left In Place Post Construction: BMPs To Be Left In Place Post Construction:	iculations ur storm rhour storm DG TxDOT TxDOT	2.4 OFFSITE VEHICLE TRACKING CONTROLS: 2.4 OFFSITE VEHICLE TRACKING CONTROLS: Excess dir/mud on road removed daily Haul roads dampened for dust control Loaded haul trucks to be covered with tarpaulin Stabilized construction exit Daily street sweeping Other: Debris and Trash Management Saniary Facilities Dist Control Saniary Facilities Other: Dist Control Dist Control	 27 ALLOWABLE NON-STORMWATER DISCHARGES: 27 ALLOWABLE NON-STORMWATER DISCHARGES: X Fire hydrant flushings X irrigation drainage X Prevent water (where spills or leaks have not occurred, and detengents are not used) X Potable water sources X Water used to wash vehicles or control dust X Uncontaminated groundwater X Water used to wash vehicles or control dust X Other allowable non-stormwater discharges as allowed by T-DES GP TXR160000. 28 DEWATERING: 28 DEWATERING: 28 DEWATERING: 28 DEWATERING: 28 DEWATERING: 28 DEWATERING: 29 INSPECTOD Since every seven (7) days. Inspection and other pollutants. 29 INSPECTIONS: 29 INSPECTION Since every seven (7) days. Inspection and Maintenance Report Form 2118 and retained in Attachment 2.5 of this story states and trobine and other pollutants. 29 INSPECTIONS: When dewatering activities are present, a daily inspection and Maintenance Report Form 2118 and retained in Attachment 2.5 of this story. 29 INSPECTIONS: When dewatering activities are present, a daily inspection and Maintenance Report Form 2118 and tetaled in Attachment 2.5 of this story.

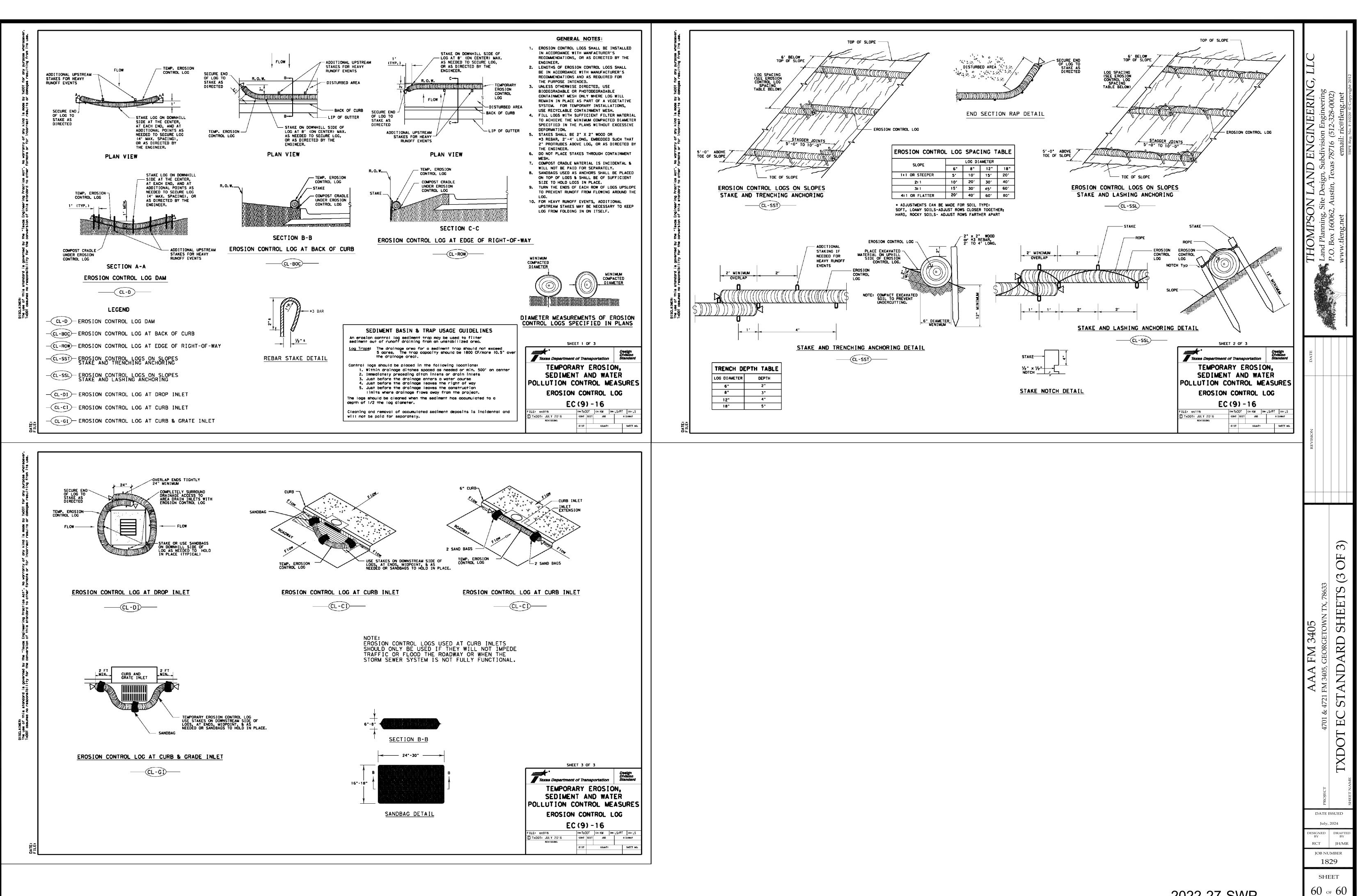
			into this SWP3.		
	2.2 SEDIMENT CONTROL BMPs:			Stationing	
	T/P		- I ype	From To	
	 Biodegradable Erosion Control Logs Dewatering Controls 				
	 Inlet Protection Rock Filter Dams/ Rock Check Dams 				
	Sandbag Berms				
	Sediment Control Fence				
	Stabilized Construction Exit				
	E Floating Turbidity Barrier				STORMWATER POLLUTION
	D Vegetated Buffer Zones				PREVENTION PLAN (SWP3)
	D Vegetated Filter Strips				-
		Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets	ets		July 2023 Sheet 2 of 2
	Other:				Texas Department of Transportation
	Other				FED. RD. PROJECT NO. SHEET
	Other				
]		Refer to the Environmental Lavout Sheets/ SWP3 Lavout Sheets	ets/ SWP3 Lavout Sheets	STATE STATE COUNTY
	Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3	Layout Sheets	located in Attachment 1.2 of this SWP3		LEAHS CONT. SECT. JOB HIGHMAY NO.
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	ED 24 AAFTEL BY H/MR ER	JOT SW3P STANDARD SHEETS) WWW.	www.tleng.net
					TBPE Keg. No. F-10220 © Copyright 2012.

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SEC	ON 402 UII. CULTURAL RESOURCES	VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES
 STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SEC TPDES TXR 150000: Stormwater Discharge Permit or Construction Ge required for projects with 1 or more acres disturbed soil. Proj disturbed soil must protect for erosion and sedimentation in acc Item 506. List MS4 Operator(s) that may receive discharges from this project They may need to be notified prior to construction activities. 1. 2. No Action Required Required Action Action No. 1. Prevent stormwater pollution by controlling erosion and sedim accordance with TPDES Permit TXR 150000 2. Comply with the SW3P and revise when necessary to control pol required by the Engineer. 3. Post Construction Site Notice (CSN) with SW3P information on 	rol Permit ts with any dance with Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (banes, burnt rack, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately. Image: No Action Required Required Action Action No. 1. Image: Imag	 VI. <u>HAZARDOUS MATERIALS OR CONTAMINATION ISSUES</u> General (applies to all projects): Comply with the Hazard Communication Act (the Act) for personnel who will be working hazardous materials by conducting safety meetings prior to beginning construction making workers aware of potential hazards in the workplace. Ensure that all worker provided with personal protective equipment appropriate for any hazardous material Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous product used on the project, which may include, but are not limited to the following category Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act Maintain an adequate supply of on-site spill response materials, as indicated in the MS in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cl of all product spills. Contact the Engineer if any of the following are detected: Dead or distressed vegetation (not identified as normal) Trash piles, drums, canister, barrels, etc. Undesirable smells or odors Evidence of leaching or seepage of substances
the site, accessible to the public and TCEQ, EPA or other ins 4. When Contractor project specific locations (PSL's) increase of area to 5 acres or more, submit NOI to TCEQ and the Engineer.	Contractor must adhere to Construction Specification Requirements Specs 162	replacements (bridge class structures not including box culverts)? . Yes V No
II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS ACT SECTIONS 401 AND 404 USACE Permit required for filling, dredging, excavating or othe water bodies, rivers, creeks, streams, wetlands or wet areas.	work in any Action No.	If "No", then no further action is required. If "Yes", then TxDOT is responsible for completing asbestos assessment/inspect Are the results of the asbestos inspection positive (is asbestos present)? Yes No If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assis the notification, develop abatement/mitigation procedures, and perform managem
The Contractor must adhere to all of the terms and conditions of the following permit(s): No Permit Required	2. 3.	activities as necessary. The notification form to DSHS must be postmarked at 15 working days prior to scheduled demolition. If "No", then TxDOT is still required to notify DSHS 15 working days prior to scheduled demolition.
image: wetlands affected) image: wetlands affected)		In either case, the Contractor is responsible for providing the date(s) for ab activities and/or demolition with careful coordination between the Engineer an asbestos consultant in order to minimize construction delays and subsequent cl Any other evidence indicating possible hazardous materials or contamination di on site. Hazardous Materials or Contamination Issues Specific to this Project:
Required Actions: List waters of the US permit applies to, local and check Best Management Practices planned to control erosion, and post-project TSS.	on in project edimentation I No Action Required I Required Action Action No.	No Action Required I Required Action Action No. 1. 2.
2. 2. 3. 4. 4. The elevation of the ordinary high water marks of any areas requires to be performed in the waters of the US requiring the use of a permit can be found on the Bridge Layouts.	- 1	3. VII. OTHER ENVIRONMENTAL ISSUES (includes regional issues such as Edwards Aquifer District, etc.) No Action Required Action No.
Best Management Practices: Erosion Sedimentation Post-Co Temporary Vegetation Silt Fence Vegetat Blankets/Matting Rock Berm Retenti	If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediate area, and contact the Engineer immediately.	1. 2. 3. Texas Department of Transportation
Sodding Sand Bag Berm Constru Interceptor Swale Straw Bale Dike Wet Bas Diversion Dike Brush Berms Erosion	ed NetLands LIST OF ABBRE VIATIONS antrol Compost BMP1 Best Management Practice SPCC: Spill Prevention Control and Countermeasure antrol Compost CGP1 Construction General Permit SMSP: Starm Water Pollution Prevention Plan ter Berm and Socks DSHS: Texas Department of State Health Services PON: Pre-Construction Notification ilter Berm and Socks MAA: Memorandum of Agreement TCEQI Texas Commission on Environmental Quality MUL Memorandum of Understanding TPDES: Texas Pollutant Discharge Elimination System n Lined Ditches MS4: Municipal Separate Stormwater Sewer System TPMD: Texas Department of Transportation er Systems NOT: Notice of Termination TBES: Threatmend and Endangered Species	EPIC

		THOMPSON LAND ENGINEERING, LLC	www.tleng.net 78716 (512-328-0002) www.tleng.net email: ric@tleng.net ^{TBPE Reg. No. F-10220 © Copyright 2012}
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		REVISION	
		AAA FM 3405 4701 & 4721 FM 3405, GEORGETOWN TX, 78633	TXDOT EPIC SHEET
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