EDWARDS AQUIFER
WATER POLLUTION ABATEMENT PLAN EXCEPTION

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS

MAY 2025

Prepared For:

Williamson County
3151 SE Inner Loop
Georgetown, Texas 78626

Prepared By:

STV, Inc.
13809 Research Blvd
Suite 300
Austin, Texas 78750

TCEQ – Austin Regional Office
2800 S. IH 35, Suite 100
Austin, TX 78704-5700

RE: Pond Springs Road – Water Pollution Abatement Plan Exception Request

To Whom It May Concern:

Please find all necessary attachments required for the Edwards Aquifer Recharge Zone Exception Request (Form TCEQ-0628). With the included forms and attachments, we demonstrate equivalent water quality protection for the Edwards Aquifer. This package also demonstrates no permanent mitigation is necessary.

If you have any questions or need additional information, please do not hesitate to contact our office at (512) 349-0700.

Sincerely,

Anthony Serda, P.E.

Table of Contents

SECTION 1
Application Cover Page
TCEQ-20705

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.

3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.

4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

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

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.

6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Pond Springs Road Drainage Improvements						**2. Regulated Entity No.:**			
3. Customer Name: Williamson County						**4. Customer No.:** CN600897888			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential			**8. Site (acres):**			2.28
9. Application Fee:	$500		**10. Permanent BMP(s):**			N/A			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			N/A			
13. County:	Williamson		**14. Watershed:**			San Gabriel River Basin			

Application Distribution

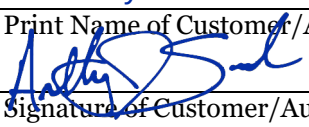
Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which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

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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	X
Region (1 req.)	___	___	X
County(ies)	___	___	X
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	X_Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	___	___	___	___
Region (1 req.)	___	___	___	___	___
County(ies)	___	___	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	___Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge ___New Braunfels ___Schertz	NA	___San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Anthony Serda Print Name of Customer/Authorized Agent
 5/29/2025 Signature of Customer/Authorized Agent Date

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

SECTION 2

General Information

TCEQ-0587

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) 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 **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Anthony Serda

Date: 5/29/2025

Signature of Customer/Agent:

Project Information

1. Regulated Entity Name: Pond Springs Road Drainage Improvements
2. County: Williamson
3. Stream Basin: San Gabriel River Basin
4. Groundwater Conservation District (If applicable): _____
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☐ Transition Zone

6. Plan Type:

   ☐ WPAP
   ☐ SCS
   ☐ Modification
   ☐ AST
   ☐ UST
   ☒ Exception Request

7. Customer (Applicant):

   Contact Person: Adam D. Boatright
   Entity: Williamson County
   Mailing Address: 701 Main St
   City, State: Georgetown Zip: 78626
   Telephone: 512-943-3374 FAX: _____
   Email Address: adam.boatright@wilco.org

8. Agent/Representative (If any):

   Contact Person: Anthony Serda
   Entity: STV, Inc
   Mailing Address: 13809 Research Blvd, Suite 300
   City, State: Austin, Texas Zip: 78750
   Telephone: 512-340-9800 FAX: _____
   Email Address: anthony.serda@stvinc.com

9. Project Location:

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

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

    Pond Springs Rd from Roxie Dr to 300' S of Turtle Rock Rd

11. ☒ **Attachment A – Road Map**. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

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

    ☒ Project site boundaries.
    ☒ USGS Quadrangle Name(s).
    ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
    ☒ Drainage path from the project site to the boundary of the Recharge Zone.

13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned**. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

    ☐ Survey staking will be completed by this date: _____

14. ☒ **Attachment C – Project Description**. Attached at the end of this form is a detailed narrative description of the proposed project. 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

15. 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/Uncleared)
- ☐ Other: _____

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

(1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);

(2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;

(3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;

(4) The use of sewage holding tanks as parts of organized collection systems; and

(5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).

(6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

(1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

(2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

18. The fee for the plan(s) is based on:

- ☐ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- ☒ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- ☐ A request for an extension to a previously approved plan.

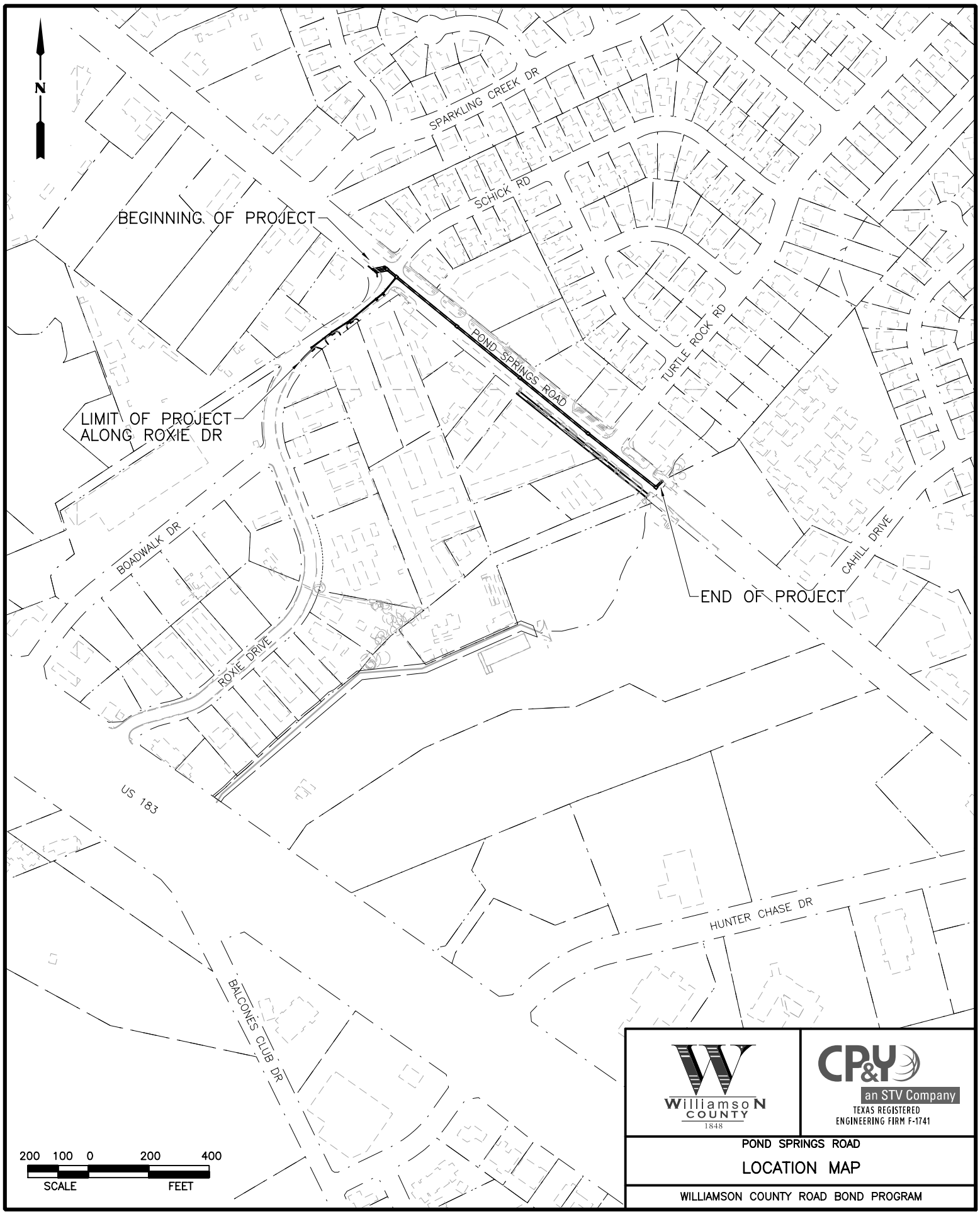
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

- ☐ TCEQ cashier
- ☒ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

20. ☒ 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.

21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

Attachment A – Road Map



Williamson County
1848

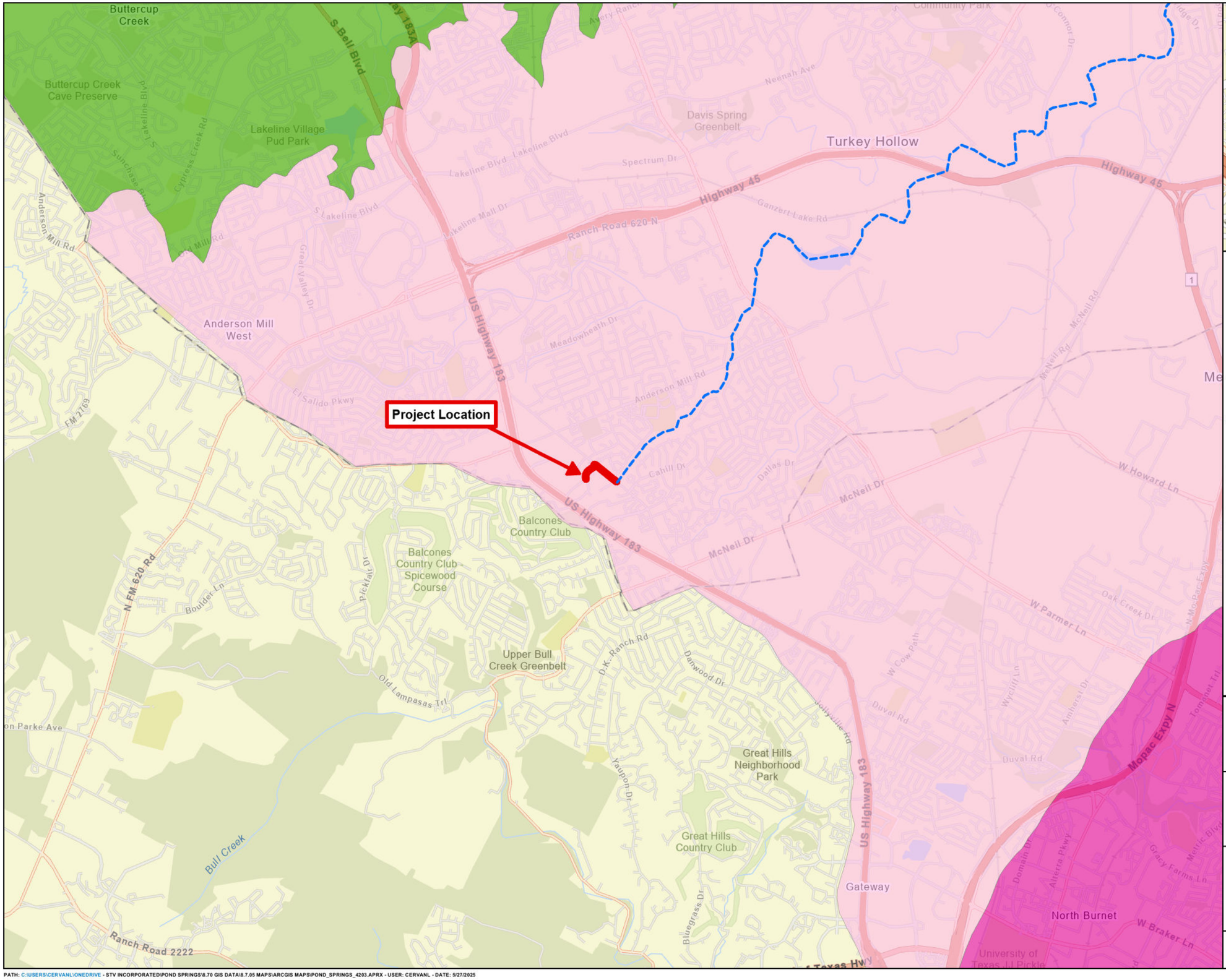
CP&Y
an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD

LOCATION MAP

WILLIAMSON COUNTY ROAD BOND PROGRAM

Attachment B – USGS / Edwards Recharge Zone Map



Legend

- Drainage Path
- Project Site
- Edwards Aquifer Contributing Zone
- Edwards Aquifer Contributing Zone within the Transition Zone
- Edwards Aquifer Transition Zone
- Edwards Aquifer Recharge Zone

N

0 0.5 1
MILES

stv

POND SPRINGS & ROXIE DR

USGS / EDWARDS RECHARGE ZONE MAP

TCEQ-0587 | **ATTACHMENT B**

PATH: C:\USERS\CERVANL\ONEDRIVE - STV INCORPORATED\POND SPRINGS\8.70 GIS DATA\8.7.05 MAPS\ARCGIS MAPS\POND_SPRINGS_4203.APRX - USER: CERVANL - DATE: 5/27/2025

Attachment C – Project Description

Williamson County has retained CP&Y, Inc. (CP&Y) to provide plans, specifications and estimates for the construction of drainage improvements designed to improve drainage conditions along Pond Springs Road. The project includes the construction of a storm drain trunk line along a portion of Roxie Drive and Pond Springs Road. The goal of the project will be to reduce the frequency and severity of ponding along the west side of Pond Springs Road, from just south of Roxie Road to about 300 feet south of Turtle Rock Road, that has been reported in the past by adjacent business owners.

The project includes the construction of a storm drain trunk line along a portion of Roxie Drive and Pond Springs Road. Proposed improvements will also include the addition of three curb and gutter inlets along the portion of Roxie Drive near the Pond Springs intersection. The goal of the project will be to reduce the frequency and severity of ponding along the west side of Pond Springs Road and Roxie Drive, from just south of Roxie Road to about 300 feet south of Turtle Rock Road, that has been reported in the past by adjacent business owners.

The total project area is approximately 2.28 acres. The current uses of adjacent areas along Pond Springs Road and Roxie Drive include mostly commercial, industrial, and office uses as well as a few single family and multi-family areas. The project is located within the City of Austin; therefore, the project has been designed per City of Austin design requirements. No additional impervious cover or permanent BMP's are being added as a result of this project.

The project overall does not propose changes to impervious cover. But there are some minor adjustments which overall decrease the impervious cover and are summarized in the table below. Of the 3 inlets, 1 of them adds impervious cover. However, throttling of the existing driveway decreases impervious cover and more than offsets for the increase in impervious cover from the inlets. All construction work is within previously disturbed land with existing water lines, culverts, and roadway improvements. No work will be performed in undisturbed areas.

Source of IC change	Change in IC
1 out of 3 inlets not in existing pavement	+39 sqft
Removal of pavement due to driveway reconstruction	-337 sqft
Total Change	-298 sqft

SECTION 3

Geologic Assessment Exception

Waiver for Geologic Assessment

No Geologic Assessment is included with this exception request package. James Slone, Geoscientist at TCEQ, confirmed that it is not required due to the prior development of the area. The project proposes adding storm sewer to existing roadway, and all work is within previously disturbed land with existing water lines, culverts, and roadway improvements. No work is in undisturbed areas. The correspondence between Bradley McConnon (STV) and James Slone (TCEQ) is attached below.

From: James Slone <james.slone@tceq.texas.gov>
Sent: Wednesday, June 5, 2024 7:46 AM
To: Bradley McConnon
Cc: Serda, Anthony; Wienke, Stephanie
Subject: RE: Wavier for Geologic Assessment- WPAP Exception

Bradley,
You can submit the plan without the Geologic Assessment due to the prior development of the area. Please retain this email for your records and attached it to the application when you submit it.
Bo

James "Bo" Slone, P.G.
Geoscientist
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality
(512) 239-6994

From: Bradley McConnon <Bradley.McConnon@stvinc.com>
Sent: Tuesday, June 4, 2024 3:15 PM
To: James Slone <james.slone@tceq.texas.gov>
Cc: Serda, Anthony <Anthony.Serda@stvinc.com>; Wienke, Stephanie <Stephanie.Wienke@stvinc.com>
Subject: RE: Wavier for Geologic Assessment- WPAP Exception

Good afternoon James,
Thanks for taking a quick look at this! Attached is a location map and a .kmz of the project. If you would like a bit more information, I can send you the drainage plan & profile sheets.

There are existing concrete lined ditches currently handling the flow, but they are insufficient and cause localized flooding. This project is adding a new trunkline and should help alleviate some of the flooding.

Bradley McConnon, P.E.
Design Engineer, Transportation Texas/Mountain Region
(o) 512.340.9800 | (c) 281.795.1751
bradley.mcconnon@stvinc.com | stvinc.com

From: James Slone <james.slone@tceq.texas.gov>
Sent: Monday, June 3, 2024 9:35 AM

To: Bradley McConnon <Bradley.McConnon@stvinc.com>
Cc: Serda, Anthony <Anthony.Serda@stvinc.com>; Wienke, Stephanie <Stephanie.Wienke@stvinc.com>
Subject: RE: Wavier for Geologic Assessment- WPAP Exception

Bradley,
Sorry I have not responded. I was out last week and it must have fallen off of my radar previously.
Can you give me a location with maybe a draft drawing of the project?
Thanks,
Bo

From: Bradley McConnon <Bradley.McConnon@stvinc.com>
Sent: Tuesday, May 28, 2024 8:46 AM
To: James Slone <james.slone@tceq.texas.gov>
Cc: Serda, Anthony <Anthony.Serda@stvinc.com>; Wienke, Stephanie <Stephanie.Wienke@stvinc.com>
Subject: RE: Wavier for Geologic Assessment- WPAP Exception

Good morning Mr. Slone,
I am following up on my request from two weeks ago about a geologic assessment waiver for a project. This might help- on this project, we are only adding some storm sewer to an existing roadway- all work is within previously disturbed land with existing water lines, culverts and roadway improvements. No work is in undisturbed areas.

Thank you!

Bradley McConnon, P.E.
Design Engineer, Transportation Texas/Mountain Region
(o) 512.340.9800 | (c) 281.795.1751
bradley.mcconnon@stvinc.com | stvinc.com

From: Bradley McConnon
Sent: Tuesday, May 14, 2024 3:33 PM
To: James.Slone@tceq.texas.gov
Cc: Serda, Anthony <Anthony.Serda@stvinc.com>; Wienke, Stephanie <Stephanie.Wienke@stvinc.com>
Subject: Wavier for Geologic Assessment- WPAP Exception

Good afternoon Mr. Slone,
My name is Bradley McConnon and I am an engineer with STV, Inc. I received your information from the EAPP staff on call just now. It's nice to make your acquaintance!

I am the lead for a drainage improvements project for Williamson County and we are preparing to submit a WPAP Exception for the project (there is no change in impervious cover). The WPAP exception criteria on the TCEQ website indicates that a geologic assessment is required (although not required for a CZP exception), but I'm not sure it would have any bearing on our project. The staff member indicated that you would be able to waive the requirement if you thought a geologic assessment had no bearing on the project.

To that end, I would like to know what you might need to make a determination on whether a geologic assessment is prudent for the project? Thank you!

Bradley McConnon, P.E.
Design Engineer, Transportation Texas/Mountain Region
(o) 512.340.9800 | (c) 281.795.1751
bradley.mcconnon@stvinc.com | stvinc.com

SECTION 4

Recharge and Transition Zone Exception Request

TCEQ-0628

Recharge and Transition Zone Exception Request Form

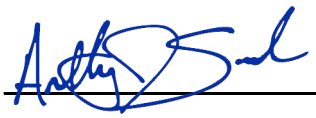
Texas Commission on Environmental Quality
30 TAC §213.9 Effective June 1, 1999

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 **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Anthony Serda
Date: 5/29/2025
Signature of Customer/Agent:



Regulated Entity Name: _____

Exception Request

1. ☒ **Attachment A - Nature of Exception**. A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
2. ☒ **Attachment B - Documentation of Equivalent Water Quality Protection**. Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

3. ☒ 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.
4. ☒ The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
5. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

Attachment A – Nature of Exception

This project is located within the Edwards Aquifer Recharge Zone in Williamson County. We request an exception from submitting a water pollution abatement plan because the site has been developed before, and the project has an overall decrease in impervious cover from existing to proposed conditions. None of the prohibited activities listed in 30 TAC Rule 213.8 of Subchapter A are proposed for this project.

Attachment B – Documentation of Equivalent Water Quality Protection

Water quality will be protected in the design and construction of this project. Regarding impervious cover (IC), three (3) curb and gutter inlets will be added along Roxie Drive. Two (2) of the inlets will be configured on existing pavement, and one (1) inlet will add roughly 39 sqft of IC. This addition of IC is offset by roughly 337 sqft of driveway pavement removal, resulting in an insignificant net decrease of 298 sqft of IC. All other work will be completed on existing previously developed roadway. Because the project does not increase IC beyond 8,000 sqft, no water quality was required for the City of Austin.

All required water quality protection measures will be observed during construction. For more detail please see the Environmental Sheets, Storm Water Pollution Prevention Plan, and Erosion and Sedimentation Control Plan sheets provided in **Attachment D – Temporary Best Management Practices and Measures** of Section 3 – Temporary Stormwater.

SECTION 5

Temporary Stormwater Section
TCEQ-0602

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.

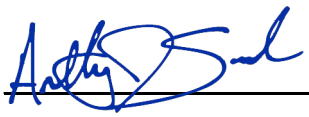
Signature

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: Anthony Serda

Date: 5/29/2025

Signature of Customer/Agent:



Regulated Entity Name: Pond Springs Road Drainage Improvements

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: San Gabriel River Basin

Temporary Best Management Practices (TBMPs)

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

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

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

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

☐ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☐ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

   ☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

   ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☒ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

    ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

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

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

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

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

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

Attachment A – Spill Response Actions

Should an accidental release occur, it will be immediately contained by earthen dikes, berms or other appropriate measures. Free liquids will be stabilized promptly using bulking agents, absorbent pads, booms, soil or other appropriate material. Once no free liquids are present in the containment area, the released material will be picked up mechanically or by personnel wearing proper protective equipment and stored in 55-gallon steel drums or on plastic sheeting. Released material will be covered to prevent contact with stormwater. Stormwater runoff will be diverted around the stored material if necessary. Traffic will be routed around and away from any spill are to avoid spreading the spilled material to other areas. Only qualified licensed personnel will be involved with the actual handling and removal of the spilled material. The Contractor is required to remediate any spills, and to immediately report spills (including sanitary sewer discharge) of reportable quantities to the National Response Center at (800) 424-8802, and one of the following: State Emergency Response Center (800) 832-8224 (if after hours), or to the TCEQ Regional Office (**512) 339-2929** (if during business hours).

Spills shall be reported within 24 hours unless other regulations require more expedient notification.

More information on spill rules and appropriate responses is available on the TCEQ website at: http://www.tceq.state.tx.us/response/spills/spills.html

Attachment B – Potential Sources of Contamination

Potential sources of contamination include:

- Soil disturbed and mobilized during excavation and grading operations
- Hydrocarbons and fuels required to service and operate the construction equipment
    - Gasoline
    - Diesel
    - Oil
    - Antifreeze
- Materials and liquids used to conduct paving operations
    - Asphalt
    - Emulsions
    - Aggregate
    - Cement
- Various paints, solvents, adhesives, glue
- Concrete washout areas
- Fertilizers
- Dewatering activities near water bodies and/or near groundwater

Attachment C – Sequence of Major Activities

The General Contractor will ultimately be responsible for the sequence of construction for each project; however, it is anticipated that the general sequence of activities will be as follows:

1. Install temporary stormwater BMPs (Sediment Control Fence, Erosion Control Logs, Rock Filter Dam) per erosion and sedimentation control plan.
2. Base bid work- Construct roadway (i.e. construct detours, drainage construction, paving), storm sewer, and utilities, making minor adjustments to silt fencing and erosion control logs as needed; apply temporary seeding as needed.
3. Striping/pavement marking applications.
4. Site cleanup.
5. Place permanent seeding/sodding in areas where grading is completed.
6. Removal of remaining temporary erosion control devices.

Appropriately sized erosion control measures will be utilized until vegetation is reestablished. See the Erosion plan sections of the attached construction plans for specific erosion control measures.

Attachment D – Temporary Best Management Practices and Measures

At the beginning of the construction phase, rock filter dams, sediment control fence, and inlet protection will be installed at surface water discharge points to reduce the potential for erosion. All temporary BMPs will remain until the end of construction.

Offsite water flows onto the project and through these temporary BMPs, preventing pollution of surface water, groundwater or stormwater.

On-site water flows into and through the same temporary BMPs, preventing pollution of surface water, groundwater or stormwater.

By slowing down the offsite and on-site water, pollutants will have time to settle to the bottom of the temporary BMPs, resulting in proper contaminant removal before discharged water enters surface streams, sensitive features or the Edwards aquifer.

Existing drainage paths will not be affected by the temporary BMPs.

See the attached Stormwater Pollution Prevention Plan (SW3P) for more information regarding general site data, best management practices, and other requirements and practices that pertain to the temporary best management practices described above. The locations of temporary BMPs are shown on the attached Erosion Control Plan sheets. Standard details show information relevant to BMP installation and maintenance.

WILLIAMSON COUNTY

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
PRECINCT NUMBER 1

Williamson County Project No. 25IFB

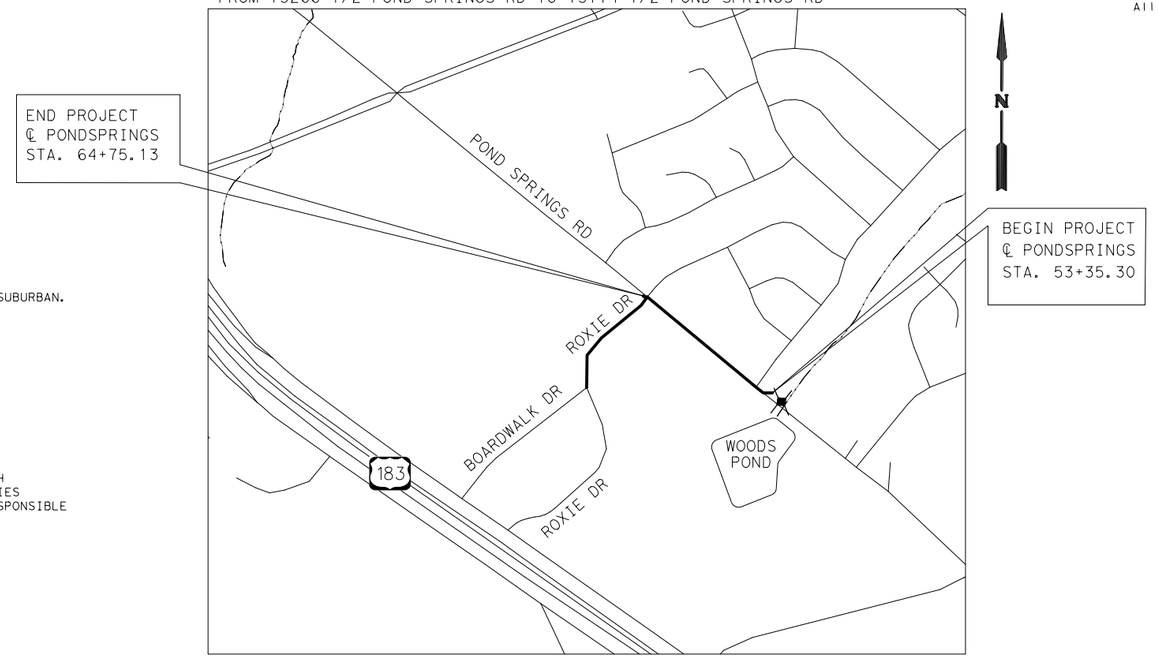
NET LENGTH OF ROADWAY = 1237.65 FT (0.234 MILES)
NET LENGTH OF PROJECT = 1237.65 FT (0.234 MILES)

SUBMISSION DATE: AUGUST 22, 2024

LIMITS: POND SPRINGS RD FROM ROXIE DR TO LAKE CREEK TRIBUTARY 3

FOR THE CONSTRUCTION OF DRAINAGE IMPROVEMENTS CONSISTING OF STRUCTURES AND STREET REPAIRS

FROM 13266 1/2 POND SPRINGS RD TO 13174 1/2 POND SPRINGS RD



GRID NUMBERS: C18, C19, D18, E17, E18
MAPSCO NUMBERS: 612W-X, 642B-D, 642H, 643E, 643J

INDEX OF SHEETS

CORRECTIONS RECORD

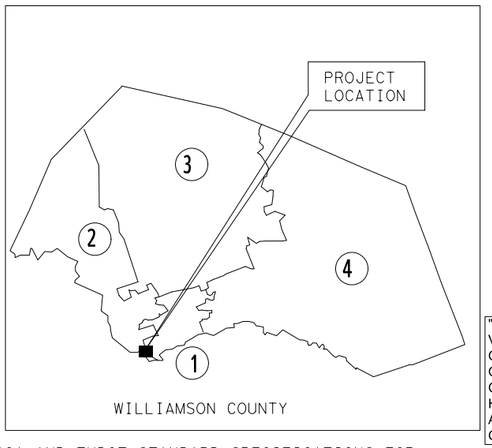
NO	DESCRIPTION	BY	REVISE (R) ADD (D) VOID (V) SHEET NO.'s	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMPV. COVER (sq.ft.)	TOTAL SITE IMPV. COVER (sq.ft.) %	CITY OF AUSTIN APPROVAL / DATE

WAIVER REQUESTS

CRITERIA MANUAL CODE REFERENCE	REASON FOR WAIVER REQUEST	LOCATION

NOTES:

1. THE 100 YEAR FLOODPLAIN IS CONTAINED WITHIN DRAINAGE EASEMENT SHOWN ON PLANS.
2. A PORTION OF THIS TRACT IS WITHIN THE BOUNDARIES OF THE 100 YEAR FLOODPLAIN OF ANY WATERWAY THAT IS WITHIN THE LIMITS OF STUDY OF THE FEDERAL FLOOD INSURANCE ADMINISTRATION (FIRM), PER FEMA MAP NUMBER 48491C061OF DATED DECEMBER 20, 2019.
3. REQUIRED SIGNS SHALL BE PLACED IN ACCORDANCE WITH STANDARD SHEETS BC(1)-21 THRU BC(12)-21 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. THIS PROJECT IS LOCATED WITHIN THE LAKE CREEK WATERSHED CLASSIFIED AS SUBURBAN.
5. THIS PROJECT IS SUBJECT TO THE VOID AND WATER FLOW MITIGATION RULE (COA ECM 1.12.0 AND COA ITEM NO. 658S OF THE SSM) PROVISION THAT ALL TRENCHING/DISTURBANCE GREATER THAN 5 FEET DEEP MUST BE INSPECTED BY A GEOLOGIST (TEXAS P.G.) OR A GEOLOGIST'S REPRESENTATIVE.
6. THIS SITE IS LOCATED OVER THE EDWARDS AQUIFER RECHARGE ZONE.
7. IF AT ANY TIME DURING CONSTRUCTION OF THIS PROJECT AN UNDERGROUND STORAGE TANK (UST) IS FOUND, CONSTRUCTION IN THAT AREA MUST STOP UNTIL A CITY OF AUSTIN UST CONSTRUCTION PERMIT IS APPLIED FOR AND APPROVED. ANY UST REMOVAL WORK MUST BE CONDUCTED BY A UST CONTRACTOR THAT IS REGISTERED WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). CONTACT ELIZABETH SIMMONS AT ELIZABETH.SIMMONS@AUSTINTEXAS.GOV IF YOU HAVE ANY QUESTIONS. (COA TITLE 6)
8. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN INDICATES COMPLIANCE WITH APPLICABLE CITY REGULATIONS ONLY. APPROVAL BY OTHER GOVERNMENTAL ENTITIES MAY BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR DETERMINING WHAT ADDITIONAL APPROVALS MAY BE NECESSARY."



COA AND TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES ADOPTED ON SEPTEMBER 1, 2024 AND ALL APPLICABLE SPECIAL PROVISIONS AND SPECIAL SPECIFICATIONS AS INDICATED IN THE BID DOCUMENTS SHALL GOVERN ON THIS PROJECT.

MAJOR COLLECTOR STREET		40 MPH
ROADWAY	ADT (CURRENT) 8,194 (2020)	ADT (DESIGN YEAR) 11,472 (2040)
ROADWAY	DHV (CURRENT) 615 (2020)	DHV (DESIGN YEAR) 861 (2040)
ROADWAY	DIRECTIONAL DISTRIBUTION (D) 62%	PERCENT TRUCKS (T) 3.2%

"RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS."

WATER PRESSURE ZONE:			
LOCATION	MIN.	TYP.	MAX.
36" WATER MAIN			
24" WATER MAIN			

EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSINGS: NONE
WATERSHED: LAKE CREEK
AREA OF DISTURBANCE: 0.32

PREPARED BY:
ANTHONY J. SERDA, P.E.
PROJECT MANAGER

4/24/2025
DATE

CP&Y
an STV Company

CHASE BANK BUILDING/TOWER OF THE HILLS
13809 RESEARCH BOULEVARD, SUITE 300
AUSTIN, TX 78750

ENGINEER:
STV, INC.
13809 RESEARCH BOULEVARD, SUITE 300
AUSTIN, TX 78750
TBPE REGISTRATION NO. F - 1741
PHONE: (512) 349-0700
FAX: (512) 349-

SURVEYOR:
STV, INC.
13809 RESEARCH BOULEVARD, SUITE 300
AUSTIN, TX 78750
TBPE REGISTRATION NO. F - 1741

WILCO TEXAS

APPROVED BY:
WILLIAMSON COUNTY

DATE

HONORABLE STEVEN SNELL.
WILLIAMSON COUNTY JUDGE

APPROVED BY:
WILLIAMSON COUNTY

DATE

COMMISSIONER TERRY COOK
WILLIAMSON COUNTY COMMISSIONER
PRECINCT 1

APPROVED BY:
HNTB CORPORATION

DATE

CHRISTEN ESCHBERGER, PE
ROAD BOND MANAGEMENT TEAM

AUSTIN WATER DATE

AUSTIN TRANSPORTATION DEPARTMENT DATE

AUSTIN FIRE DEPARTMENT DATE

APPROVED BY:

DATE

DEVELOPMENT SERVICES DEPARTMENT DATE

SITE PLAN / DEVELOPMENT PERMIT NUMBER

SITE PLAN APPROVAL SHEET 1 OF 124
FILE NUMBER: SP-2024-0324D APPLICATION DATE: AUGUST 22, 2024
APPROVED BY COMMISSION ON: _____
UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF

EXPIRATION DATE (LDC 15-5-81) _____ CASE MANAGER: ALYSE RAMIREZ
PROJECT EXPIRATION DATE (ORD. #970905-A) _____ DWPZ _____ DDDZ ___

DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE _____ ZONING _____
REVISION 1 _____ CORRECTION 1 _____
REVISION 2 _____ CORRECTION 2 _____
REVISION 3 _____ CORRECTION 3 _____

Final Plat must be recorded by the project expiration date, if applicable. Subsequent site plans which do not comply with the code current at the time of filing, and all required building permits and /or a notice of construction (if a building permit is not required) must also be approved prior to the project expiration date.

SP-2024-0324D

SHEET NO.		DESCRIPTION
		VOLUME I
		GENERAL
1		TITLE SHEET
2		INDEX OF SHEETS
3 – 4		GENERAL NOTES
5		TREE LIST
6		AUSTIN ENERGY GENERAL NOTES
7		PROJECT LAYOUT
8 – 10		TYPICAL SECTIONS
11 – 12		HORIZONTAL ALIGNMENT DATA
13		SUMMARY OF DRAINAGE QUANTITIES
14		SUMMARY OF ROADWAY & MISC QUANTITIES
		ROADWAY
15 – 18		ROADWAY PLAN
		ROADWAY DETAILS
19 – 20	*	COA ROADWAY STANDARD DETAILS
		DRAINAGE
21		DRAINAGE AREA MAP EXTERIOR (EXISTING)
22		DRAINAGE AREA MAP EXTERIOR (PROPOSED)
23		DRAINAGE AREA MAP FUTURE INLETS EXISTING CONDITIONS
24		DRAINAGE AREA MAP PROPOSED INLETS PROPOSED CONDITIONS
25		DRAINAGE AREA CALCULATIONS EXISTING & PROPOSED
26		HYDRAULIC DATA SHEET
27 – 30		DRAINAGE PLAN AND PROFILE
31		DRAINAGE PROFILES
32		CULVERT L–PS06 EXIST PARALLEL WINGWALL CONNECTION DETAIL
33		JUNCTION BOX DETAILS 16ft x8ft
		DRAINAGE DETAILS
34	*	SCP–MD
35	*	SCP–5
36	*	PJB
37	*	PB
38	*	PBGC
39	*	PDD
40 – 41	*	PSL
42 – 43	*	SETB–CD
44 – 48	*	COA DRAINAGE STANDARD DETAILS
		TRAFFIC ITEMS
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		TRAFFIC DETAILS
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56 – 59	*	D&OM(1)–20 THRU D&OM(4)–20
60	*	TRAFFIC DETAILS
		ENVIRONMENTAL SHEETS
61		EPIC
62		STORM WATER POLLUTION PREVENTION PLAN
63		WATER POLLUTION ABATEMENT PLAN GENERAL NOTES
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65		SLOPE MAP
66		EROSION HAZARD ZONE ANALYSIS
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70	*	EC(1)–16
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75 – 77	*	ENVIRONMENTAL STANDARD DETAILS
		CROSS SECTIONS
78 – 92		CROSS SECTIONS (FOR CONTRACTORS INFORMATION ONLY)
		UTILITY PLAN
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95		WATERLINE SUMMARY OF QUANTITIES
96 – 100		WATERLINE PLANS
101 – 103		UTILITY DETAILS

THIS NOTE IS BEING PLACED ON THE PLAN SET IN THE ABSENCE OF A TEMPORARY TRAFFIC CONTROL PLAN (TCP) WITH THE FULL UNDERSTANDING THAT AN ENGINEERED TCP SHALL BE REVIEWED AND APPROVED BY THE RIGHT OF WAY MANAGEMENT DIVISION. FURTHERMORE, A TCP SHALL BE SUBMITTED TO THE TCP PORTAL FOR REVIEW A MINIMUM OF 6 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT/PROJECT REPRESENTATIVE FURTHER RECOGNIZES THAT A TCP REVIEW FEE IS REQUIRED FOR THE INITIAL REVIEW AND ALL RE–REVIEWS, AS PRESCRIBED BY THE MOST CURRENT VERSION OF THE CITY?S FEE ORDINANCE.

STATE OF TEXAS
BRADLEY MCCONNON
104741
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

THE STANDARD DRAWINGS SHOWN IN THE INDEX OF SHEETS AND IDENTIFIED HEREIN BY THE SYMBOL * HAVE BEEN SELECTED BY ME OR UNDER MY DIRECT SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

INDEX OF SHEETS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	2 OF 103

SHEET 1 OF 1

SP–2024–0324D

cpybw_ANSIB.tbl
cpydf_ANSIB.pltcfg
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APPENDIX P-1
EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS, TREE/NATURAL AREA PROTECTIVE FENCING, AND CONDUCT "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE) PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE COA ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF AUSTIN ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL BY COA EV PLAN REVIEWERS AS WELL AS COA EV INSPECTORS.

   – PLAN SHEETS SUBMITTED TO THE CITY OF AUSTIN MUST SHOW THE FOLLOWING:

   › DIRECTION OF FLOW DURING GRADING OPERATIONS.

   › LOCATION, DESCRIPTION, AND CALCULATIONS FOR OFF-SITE FLOW DIVERSION STRUCTURES.

   › AREAS THAT WILL NOT BE DISTURBED; NATURAL FEATURES TO BE PRESERVED.

   › DELINEATION OF CONTRIBUTING DRAINAGE AREA TO EACH PROPOSED BMP (E.G., SILT FENCE, SEDIMENT BASIN, ETC.).

   › LOCATION AND TYPE OF E&S BMPS FOR EACH PHASE OF DISTURBANCE.

   › CALCULATIONS FOR BMPS AS REQUIRED.

   › LOCATION AND DESCRIPTION OF TEMPORARY STABILIZATION MEASURES.

   › LOCATION OF ON-SITE SPOILS, DESCRIPTION OF HANDLING AND DISPOSAL OF BORROW MATERIALS, AND DESCRIPTION OF ON-SITE PERMANENT SPOILS DISPOSAL AREAS, INCLUDING SIZE, DEPTH OF FILL AND REVEGETATION PROCEDURES.

   › DESCRIBE SEQUENCE OF CONSTRUCTION AS IT PERTAINS TO ESC INCLUDING THE FOLLOWING ELEMENTS:

      1. INSTALLATION SEQUENCE OF CONTROLS (E.G. PERIMETER CONTROLS, THEN SEDIMENT BASINS, THEN TEMPORARY STABILIZATION, THEN PERMANENT, ETC.)
      2. PROJECT PHASING IF REQUIRED (LOC GREATER THAN 25 ACRES)
      3. SEQUENCE OF GRADING OPERATIONS AND NOTATION OF TEMPORARY STABILIZATION MEASURES TO BE USED
      4. SCHEDULE FOR CONVERTING TEMPORARY BASINS TO PERMANENT WQ CONTROLS
      5. SCHEDULE FOR REMOVAL OF TEMPORARY CONTROLS
      6. ANTICIPATED MAINTENANCE SCHEDULE FOR TEMPORARY CONTROLS

   – CATEGORIZE EACH BMP UNDER ONE OF THE FOLLOWING AREAS OF BMP ACTIVITY AS DESCRIBED BELOW:

      3.1 MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL

      3.2 CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT

      3.3 STABILIZE SOILS

      3.4 PROTECT SLOPES

      3.5 PROTECT STORM DRAIN INLETS

      3.6 ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS

      3.7 RETAIN SEDIMENT ON-SITE AND CONTROL DEWATERING PRACTICES

      3.8 ESTABLISH STABILIZED CONSTRUCTION EXITS

      3.9 ANY ADDITIONAL BMPS

   – NOTE THE LOCATION OF EACH BMP ON YOUR SITE MAP(S).

   – FOR ANY STRUCTURAL BMPS, YOU SHOULD PROVIDE DESIGN SPECIFICATIONS AND DETAILS AND REFER TO THEM.

   – FOR MORE INFORMATION, SEE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL 1.4.
3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS, TREE/NATURAL AREA PROTECTION MEASURES AND "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE) PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE OWNER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE DEVELOPMENT SERVICES DEPARTMENT, 512-974-2278 OR BY EMAIL AT ENVIRONMENTAL.INSPECTIONS@AUSTINTEXAS.GOV, AT LEAST THREE DAYS PRIOR TO THE MEETING DATE. COA APPROVED ESC PLAN AND TPDES SWPPP (IF REQUIRED) SHOULD BE REVIEWED BY COA EV INSPECTOR AT THIS TIME.
5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY AUTHORIZED COA STAFF. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
6. THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR THAT IS EITHER A LICENSED ENGINEER (OR PERSON DIRECTLY SUPERVISED BY THE LICENSED ENGINEER) OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC OR CPESC – IT), CERTIFIED EROSION, SEDIMENT AND STORMWATER – INSPECTOR (CESSWI OR CESSWI – IT) OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC OR CISEC – IT) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY OR BI-WEEKLY INTERVALS AND AFTER ONE-HALF (½) INCH OR GREATER RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES OR ONE-THIRD (?) OF THE INSTALLED HEIGHT OF THE CONTROL WHICHEVER IS LESS.
7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
8. 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 CITY OF AUSTIN ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION. IN ADDITION, IF THE PROJECT SITE IS LOCATED WITHIN THE EDWARDS AQUIFER, THE PROJECT MANAGER MUST NOTIFY THE TRAVIS COUNTY BALCONES CANYONLANDS CONSERVATION PRESERVE (BCCP) BY EMAIL AT BCCP@TRAVISCOUNTYTX.GOV. CONSTRUCTION ACTIVITIES WITHIN 50 FEET OF THE VOID MUST STOP.
9. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW:

   A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES.

      TOPSOIL SALVAGED FROM THE EXISTING SITE IS ENCOURAGED FOR USE, BUT IT SHOULD MEET THE STANDARDS SET FORTH IN 601S.

      AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE CRITERIA OF STANDARD SPECIFICATION 601S BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.

      SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL-BLENDED MATERIAL.

THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

TEMPORARY VEGETATIVE STABILIZATION:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH OR INCLUDE A COOL SEASON COVER CROP: (WESTERN WHEATGRASS (*PASCOPYRUM SMITHII*) AT 5.6 POUNDS PER ACRE, OATS (*AVENA SATIVA*) AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAIN (*SECALE CEREALE*) AT 45 POUNDS PER ACRE. CONTRACTOR MUST ENSURE THAT ANY SEED APPLICATION REQUIRING A COOL SEASON COVER CROP DOES NOT UTILIZE ANNUAL RYEGRASS (*LOLIUM MULTIFLORUM*) OR PERENNIAL RYEGRASS (*LOLIUM PERENNE*). COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE OR A NATIVE PLANT SEED MIX CONFORMING TO ITEM 604S OR 609S.

   A. FERTILIZER SHALL BE APPLIED ONLY IF WARRANTED BY A SOIL TEST AND SHALL CONFORM TO ITEM NO. 606S, FERTILIZER. FERTILIZATION SHOULD NOT OCCUR WHEN RAINFALL IS EXPECTED OR DURING SLOW PLANT GROWTH OR DORMANCY. CHEMICAL FERTILIZER MAY NOT BE APPLIED IN THE CRITICAL WATER QUALITY ZONE.

   B. HYDROMULCH SHALL COMPLY WITH TABLE 1, BELOW.

   C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.

   D. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, AND STANDARD SPECIFICATION 604S OR 609S.

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
100% OR ANY BLEND OF WOOD, CELLULOSE, STRAW, AND/OR COTTON PLANT MATERIAL (EXCEPT NO MULCH SHALL EXCEED 30% PAPER)	70% OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL FIBERS	0-3 MONTHS	MODERATE SLOPES; FROM FLAT TO 3:1	1,500 TO 2,000 LBS PER ACRE

PERMANENT VEGETATIVE STABILIZATION:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (½) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDAGRASS OR NATIVE SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM-SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEM 604S OR 609S.

   A. FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER. APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY-OWNED AND MANAGED PROPERTY REQUIRES THE YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY OF AUSTIN'S IPM COORDINATOR.

   B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.

   C. WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER UNIFORMLY TO THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL. MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE CHAPTER 6-4 (WATER CONSERVATION), AT RATES AND FREQUENCIES DETERMINED BY A LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE AUSTIN WATER UTILITY AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVES.

   D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95 PERCENT FOR THE NON-NATIVE MIX, AND 95 PERCENT COVERAGE FOR THE NATIVE MIX SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR STABILITY MUST BE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.

   E. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, ITEMS 604S AND 609S.

TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
BONDED FIBER MATRIX (BFM)	80% ORGANIC DEFIBRATED FIBERS			
10% TACKIFIER	6 MONTHS	ON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS	2,500 TO 4,000 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)	
FIBER REINFORCED MATRIX (FRM)	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBERS OR LESS 10% TACKIFIER	UP TO 12 MONTHS	ON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3,000 TO 4,500 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)

10. DEVELOPER INFORMATION:

    OWNER: WILLIAMSON COUNTY

    PHONE #: 512-943-3330

    ADDRESS: 3151 SE INNER LOOP RD, SUITE B, GEORGETOWN, TX 78626

    OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS: STV inc.

    PHONE #: (512) 349-0700

    PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE: WILLIAMSON COUNTY ENGINEER

    PHONE #: (512) 943-3330

    PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE: WILLIAMSON COUNTY ENGINEER

    PHONE #: (512) 943-3330
11. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT

NOTIFYING THE DEVELOPMENT SERVICES DEPARTMENT AT 512-974-2278 AT LEAST 48 HOURS PRIOR

WITH THE LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

SHEET 1 OF 2

STATE OF TEXAS
BRADLEY MCCONNON
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

GENERAL NOTES

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn: MEB	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	3 OF 103

SP-2024-0324D

APPENDIX P-4: STANDARD SEQUENCE OF CONSTRUCTION

THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE USED FOR ALL DEVELOPMENT. THE APPLICANT IS ENCOURAGED TO PROVIDE ANY ADDITIONAL DETAILS APPROPRIATE FOR THE PARTICULAR DEVELOPMENT.

1. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION, INITIATE TREE MITIGATION MEASURES AND CONDUCT "PRE – CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE).
2. THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE DEVELOPMENT SERVICES DEPARTMENT, ENVIRONMENTAL INSPECTION, AT 512-974-2278, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON-SITE PRECONSTRUCTION MEETING.
3. THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL CONTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.
4. ROUGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE DRAINAGE CRITERIA MANUAL AND/OR THE ENVIRONMENTAL CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S).
5. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
6. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES. WORK ADJACENT TO THE CWQZ IS ANTICIPATED TO TAKE PLACE IN THE FIRST PHASE OF CONSTRUCITON.
7. IN THE BARTON SPRINGS ZONE, THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR WILL SCHEDULE A MID-CONSTRUCTION CONFERENCE TO COORDINATE CHANGES IN THE CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF THE EROSION CONTROL PLAN AFTER POSSIBLE CONSTRUCTION ALTERATIONS TO THE SITE. PARTICIPANTS SHALL INCLUDE THE CITY INSPECTOR, PROJECT ENGINEER, GENERAL CONTRACTOR AND ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR. THE ANTICIPATED COMPLETION DATE AND FINAL CONSTRUCTION SEQUENCE AND INSPECTION SCHEDULE WILL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR.
8. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE.
9. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
10. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE BEARING THE ENGINEER'S SEAL, SIGNATURE, AND DATE TO THE DEVELOPMENT SERVICES DEPARTMENT INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
11. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE DEVELOPMENT SERVICES DEPARTMENT INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
12. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

EROSION AND SEDIMENTATION CONTROL REQUIREMENTS

IF DISTURBED AREA IS NOT TO BE WORKED FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP, OR REVEGETATION MATTING. [ECM 1.4.4.B.3, SECTION 5.I]

ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/ SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS [LDC 25-8-182]

CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(A), OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY. [ECM 1.4.4.D.4]

PER LDC 25-8-323(C), FOR AREAS ON THE SITE THAT ARE TO REMAIN PERVIOUS AFTER DEVELOPMENT, ANY SOILS THAT ARE COMPACTED DURING SITE GRADING AND CONSTRUCTION OPERATIONS MUST BE DECOMPACTED IN COMPLIANCE WITH THE ECM AND IN COMPLIANCE WITH SSM 661S.

NO MORE THAN 2000 FEET OF CONSTRUCTION ZONE SHALL BE OPEN AT ANY TIME WITH CLEAN UP AND RESTORATION WORK OCCURRING BEFORE PROCEEDING TO THE NEXT SECTION. THE CONTRACTOR IS REQUIRED TO RESTORE ALL DISTURBED AREAS AS THE WORK PROGRESSES.

ALL SPOILS ARE TO BE PLACED BACK IN TRENCH EVERY NIGHT; OR IF SPOILS PILES ARE TO REMAIN OVERNIGHT, SPOILS MUST BE PLACED ON THE UPHILL SIDE OF TRENCH WITHIN THE LOC.

PERPENDICULAR EROSION CONTROLS MUST BE INSTALLED EVERY 30 FEET AS THE TRENCH IS BACKFILLED. [ECM 1.4.4.G]

CONTRACTOR SHALL PROVIDE AND MAINTAIN A DEWATERING SYSTEM TO ENSURE IT MEETS COMPLIANCE WITH TITLE 6, ARTICLE V OF THE AUSTIN CITY CODE. THE DEWATERING PLAN MUST BE APPROVED BY THE ENVIRONMENTAL INSPECTOR DURING THE PRE-CONSTRUCTION CONFERENCE. IF THE PERFORMANCE OF THE DEWATERING SYSTEM IS NOT IN COMPLIANCE, THE CONTRACTOR MUST IMMEDIATELY MAKE THE NECESSARY MODIFICATIONS, FOLLOWING THE ENVIRONMENTAL INSPECTOR?S DIRECTION, TO ENSURE ADEQUATE SYSTEM PERFORMANCE.

ONLY RUBBER-TIRED EQUIPMENT IS ALLOWED WITHIN THE CWQZ AND FLOODPLAIN. NO TRACK EQUIPMENT IS ALLOWED.

ALL EQUIPMENT AND SPOILS ARE TO BE REMOVED FROM THE CREEK, THE CWQZ, AND 100-YEAR FLOODPLAIN NIGHTLY.

ECM 3.6.2 STANDARD PLAN NOTE

THE FOLLOWING PLAN NOTE SUMMARIZES THE CONTENTS OF THE ENVIRONMENTAL CRITERIA MANUAL AS IT RELATES TO TREE PROTECTION ON SITES WITH ACTIVE PERMITS:

BEFORE CONSTRUCTION
- ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED PER ECM 3.6.1.
- TREE PROTECTION SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE WORK, INCLUDING DEMOLITION OR SITE PREPARATION. REFER TO ECM 3.6.1.A.
- FENCING FOR TREE PROTECTION SHALL BE CHAIN-LINK MESH WITH A MINIMUM HEIGHT OF 5 FEET AND SHALL BE INSTALLED AROUND OR BEYOND THE CRITICAL ROOT ZONE EXCEPT AS ALLOWED IN ECM 3.6.1.B.4.
- UNFENCED SECTIONS OF THE CRITICAL ROOT ZONE SHALL BE COVERED WITH MULCH AT A MINIMUM DEPTH OF 8 INCHES AND A MAXIMUM DEPTH OF 12 INCHES PER ECM 3.6.1.C.
- WHERE FENCING IS LOCATED 5 FEET OR LESS FROM THE TRUNK OF A PRESERVED TREE, TRUNK WRAPPING SHALL BE INSTALLED PER ECM 3.6.1.D.
- EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AND MAINTAINED SO AS NOT TO CAUSE IMPACTS THAT EXCEED PRESERVATION CRITERIA LISTED IN ECM 3.5.3.D.

DURING CONSTRUCTION
- TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER THAT DOES NOT EXCEED PRESERVATION CRITERIA FOR THE TREES TO REMAIN. REFER TO ECM 3.5.2 A.
- FENCING MAY NOT BE TEMPORARILY MOVED OR REMOVED DURING DEVELOPMENT WITHOUT PRIOR AUTHORIZATION. THE FENCED CRITICAL ROOT ZONE SHALL NOT BE USED FOR TOOL OR MATERIAL STORAGE OF ANY KIND AND SHALL BE KEPT FREE OF LITTER. REFER TO ECM 3.6.1.B.3.
- PRUNING SHALL BE IN COMPLIANCE WITH THE CURRENT ANSI A300 STANDARD FOR TREE CARE.

AFTER CONSTRUCTION
- TREE PROTECTION SHALL BE REMOVED AT THE END OF THE PROJECT AFTER ALL CONSTRUCTION AND FINAL GRADING IS COMPLETE, BUT BEFORE FINAL INSPECTION. REFER TO ECM 3.6.1.A.
- LANDSCAPE INSTALLATION WITHIN THE CRZ OF PRESERVED TREES, INCLUDING IRRIGATION, SOIL AND PLANTINGS, SHALL NOT EXCEED PRESERVATION CRITERIA LISTED IN ECM 3.5.2.
- DOCUMENTATION OF TREE WORK PERFORMED MUST BE PROVIDED TO INSPECTOR PER ECM APPENDIX P-6.

THIS LIST IS NOT EXHAUSTIVE.
REFER TO APPROPRIATE ECM SECTIONS FOR FULL REQUIREMENTS.

DEWATERING NOTES

CONSTRUCT OR PLACE STRUCTURES IN THE PRESENCE OF WATER ONLY IF APPROVED. PLACE PRECAST MEMBERS, PIPE, AND CONCRETE ONLY ON A DRY, FIRM SURFACE. REMOVE WATER BY BAILING, PUMPING, WELL-POINT INSTALLATION, DEEP WELLS, UNDERDRAINS, OR OTHER APPROVED METHOD.

REMOVE STANDING WATER IN A MANNER THAT DOES NOT ALLOW WATER MOVEMENT THROUGH OR ALONGSIDE CONCRETE BEING PLACED IF STRUCTURES ARE APPROVED FOR PLACEMENT IN THE PRESENCE OF WATER. PUMP OR BAIL ONLY FROM A SUITABLE SUMP SEPARATED FROM THE CONCRETE WORK WHILE PLACING STRUCTURAL CONCRETE OR FOR A PERIOD OF AT LEAST 36 HR. THEREAFTER. PUMP OR BAIL DURING PLACEMENT OF SEAL CONCRETE ONLY TO THE EXTENT NECESSARY TO MAINTAIN A STATIC HEAD OF WATER WITHIN THE COFFERDAM. PUMP OR BAIL TO DE-WATER INSIDE A SEALED COFFERDAM ONLY AFTER THE SEAL HAS AGED AT LEAST 36 HR.

PLACE A STABILIZING MATERIAL IN THE BOTTOM OF THE EXCAVATION IF THE BOTTOM OF AN EXCAVATION CANNOT BE DEWATERED TO THE POINT THE SUBGRADE IS FREE OF MUD OR IT IS DIFFICULT TO KEEP REINFORCING STEEL CLEAN. USE FLEXIBLE BASE, CEMENT-STABILIZED BASE OR BACKFILL, LEAN CONCRETE, OR OTHER APPROVED STABILIZING MATERIAL. PROVIDE CONCRETE WITH AT LEAST 275 LB. OF CEMENT PER CUBIC YARD, IF LEAN CONCRETE IS USED, AND PLACE TO A MINIMUM DEPTH OF 3 IN. STABILIZING MATERIAL PLACED FOR THE CONVENIENCE OF THE CONTRACTOR WILL BE AT THE CONTRACTOR?S EXPENSE.

STATE OF TEXAS
BRADLEY MCCONNON
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

GENERAL NOTES

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MEB	Designed:	STATE	COUNTY	SHEET NO.
Checked:		Checked:	TEXAS	WILLIAMSON	4 OF 103

SHEET 2 OF 2

SP-2024-0324D

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TREE LIST		
TAG NO.	DESCRIPTION	P/H/R
# 10	20" WILLOW	P
# 11	10" BOXELDER	
# 12	18" CHINABERRY	
# 13	12" COTTONWOOD	
# 14	22" PECAN	P
# 15	8" HACKBERRY	
# 16	13" MT MULBERRY (7", 6", 6")	
# 17	21" MT LIVE OAK (15", 12")	P
# 18	8" CEDAR	
# 19	9" HACKBERRY	

NOTES:

TREE SURVEY COMPELETED IN APRIL 2024.

TREE PROTECTION IS SUBSIDIARY TO PERTINENT ITEMS PER CITY OF AUSTIN SPEC 610S.

P – PROTECTED TREE
H – HERITAGE TREE
R – SCHEDULED FOR REMOVAL

STATE OF TEXAS
BRADLEY M. MCCONNON
LICENSED PROFESSIONAL ENGINEER
04/24/2025

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13062 1/2 POND SPRINGS RD

TREE LIST

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn: BAM	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	5 OF 103

SHEET 1 OF 1

SP-2024-0324D

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AUSTIN ENERGY STANDARD NOTES

- AUSTIN ENERGY HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY AND OTHER OBSTRUCTIONS TO THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. AUSTIN ENERGY WILL PERFORM ALL TREE WORK IN THE COMPLIANCE WITH CHAPTER 25-8, SUBCHAPTER B OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

- THE OWNER/DEVELOPER OF THIS SUDIVISION/LOT SHALL PROVIDE AUSTIN ENERGY WITH ANY EASEMENT AND/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED, FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. THESE EASEMENTS AND/OR ACCESS ARE REQUIRED TO PROVIDE ELECTRIC SERVICE TO THE BUILDING AND WILL NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE OUT OF COMPLIANCE WITH CHAPTER 25-8 OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.

- THE OWNER SHALL BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY INITIAL TREE PRUNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTER LINE OF THE PROPOSED OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. THE OWNER SHALL INCLUDE AUSTIN ENERGY'S WORK WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.

- THE OWNER OF THIS PROJECT IS RESPONSIBLE FOR MAINTAINING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, CITY OF AUSTIN RULES AND REGULATIONS AND TEXAS STATE LAWS PERTAINING TO CLEARANCES WHEN WORKING IN CLOSE PROXIMITY TO OVERHEAD POWER LINES AND EQUIPMENT. AUSTIN ENERGY WILL NOT RENDER ELECTRIC SERVICE UNLESS REQUIRED CLEARANCES ARE MAINTAINED. ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCES WILL BE CHARGED TO THE OWNER.

STANDARD SITE PLAN NOTES

ORDINANCE REQUIREMENTS

1. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE A SITE PLAN AMENDMENT AND APPROVAL FROM THE DEVELOPMENT SERVICES DEPARTMENT.
2. APPROVAL OF THIS SITE PLAN DOES NOT INCLUDE BUILDING CODE APPROVAL; FIRE CODE APPROVAL; OR BUILDING, DEMOLITION, OR RELOCATION PERMITS APPROVAL. A CITY DEMOLITION OR RELOCATION PERMIT CAN ONLY BE ISSUED ONCE THE HISTORIC REVIEW PROCESS IS COMPLETED.
3. ALL SIGNS MUST COMPLY WITH THE REQUIREMENTS OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.
4. THE OWNER IS RESPONSIBLE FOR ALL COSTS OF RELOCATION OF, OR DAMAGE TO, UTILITIES.
5. ADDITIONAL ELECTRIC EASEMENTS MAY BE REQUIRED AT A LATER DATE.
6. A SITE DEVELOPMENT PERMIT MUST BE ISSUED PRIOR TO AN APPLICATION FOR BUILDING PERMIT FOR NON-CONSOLIDATED OR LAND USE COMMISION APPROVED SITE PLANS.
7. WATER AND WASTEWATER SERVICE WILL BE PROVIDED BY THE CITY OF AUSTIN --- OR IDENTIFY THE SERVICE PROVIDER IF OTHER THAN THE CITY OF AUSTIN.
8. FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, A R.O.W. EXCAVATION PERMIT IS REQUIRED.

FIRE DEPARTMENT

1. THE AUSTIN FIRE DEPARTMENT REQUIRES ASPHALT OR CONCRETE PAVEMENT PRIOR TO CONSTRUCTION AS AN "ALL WEATHER DRIVING SURFACE."
2. HYDRANTS MUST BE INSTALLED WITH THE CENTER OF THE FOUR-INCH OPENING AT LEAST 18 INCHES ABOVE FINISHED GRADE. THE FOUR-INCH OPENING MUST FACE THE DRIVEWAY OR STREET WITH THREE- TO SIX-FOOT SETBACKS FROM THE CURBLINE(S). NO OBSTRUCTION IS ALLOWED WITHIN THREE FEET OF ANY HYDRANT AND THE FOUR-INCH OPENING MUST BE TOTALLY UNOBSTRUCTED FROM THE STREET.
3. TIMING OF INSTALLATION: WHEN FIRE PROTECTION FACILITIES ARE INSTALLED BY THE DEVELOPER, SUCH FACILITIES SHALL INCLUDE ALL SURFACE ACCESS ROADS WHICH SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION. WHEN ALTERNATIVE METHODS OF PROTECTION, AS APPROVED BY THE FIRE CHIEF, ARE PROVIDED, THE ABOVE MAY BE MODIFIED OR WAIVED.
4. ALL PREVIOUS/DECORATIVE PAVINGWITHIN 100 FEET OF ANY BUILDING MUST BE APPROVED BY THE FIRE DEPARTMENT.
5. COMMERCIAL DUMPSTERS AND CONTAINERS WITH AN INDIVIDUAL CAPACITY OF 1.5 CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN TEN FEET OF OPENINGS, COMBUSTIBLE WALLS, OR COMBUSTIBLE EAVE LINES.
6. FIRE LANES DESIGNATED ON SITE PLAN SHALL BE REGISTERED WITH CITY OF AUSTIN FIRE MARSHAL'S OFFICE AND INSPECTED FOR FINAL APPROVAL.
7. VERTICAL CLEARANCE REQUIRED FOR FIRE APPARATUS IS 14 FEET FOR FULL WIDTH OF ACCESS DRIVE.

GENERAL CONSTRUCTION NOTES

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
2. CONTRACTOR SHALL CALL TEXAS 811 (811 OR 1-800-344-8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
3. CONTRACTOR SHALL NOTIFY THE CITY OF AUSTIN - SITE & SUBDIVISION TO SUBMIT REQUIRED DOCUMENTATION, PAY CONSTRUCTION INSPECTION FEES, AND TO SCHEDULE THE REQUIRED SITE AND SUBDIVISION PRE-CONSTRUCTION MEETING, THIS MEETING MUST BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE R.O.W. OR PUBLIC EASEMENTS. PLEASE VISIT HTTP://AUSTINTEXAS.GOV.PAGE/COMMERCIAL-SITE-AND-SUBDIVISION-INSPECTIONS FOR A LIST OF SUBMITTAL REQUIREMENTS, INFORMATION CONCERNING FEES, AND CONTACT INFORMATION.
4. FOR SLOPES OR TRENCHES GREATER THAN FIVE FEET IN DEPTH, A NOTE MUST BE ADDED STATING: "ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION." (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN TEXAS.)
5. ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REQUIREMENTS.
6. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO THE FOLLOWING, THE ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE, FILTRATION, AND DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS:

   ☐ RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE DEVELOPMENT SERVICES DEPARTMENT (INSIDE THE CITY LIMITS); OR

   ☐ INSTALLATION OF AN ELECTRIC OR WATER METER (IN THE FIVE-MILE ETJ)

DEVELOPER INFORMATION

OWNER _____ PHONE # _____

OWNER ADDRESS _____

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS _____ PHONE # _____

PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE _____ PHONE # _____

PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE _____ PHONE # _____

AMERICANS WITH DISABILITIES ACT

THE CITY OF AUSTIN HAS REVIEWED THIS PLAN FOR COMPLIANCE WITH CITY DEVELOPMENT REGULATIONS ONLY. THE APPLICANT, PROPTERY OWNER, AND OCCUPANT OF THE PREMISES ARE RESPONSIBLE FOR DETERMINING WHETHER THE PLAN COMPLIES WITH ALL OTHER LAWS, REGULATIONS, AND RESTRICTIONS WHICH MAY BE APPLICABLE TO THE PROPERTY AND ITS USE.

NOTE:DO NOT REMOVE THE TITLE BLOCK

AUSTIN ENERGY GENERAL INFORMATION AND CONSTRUCTION NOTES FOR COMMERCIAL SITES AND SUBDIVISION PLANS

CITY OF AUSTIN
AUSTIN ENERGY
October 2021

VERSION 2.0
STANDARD NO.
1 OF 1

STATE OF TEXAS
BRADLEY MCCONNON
106741
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

AUSTIN ENERGY GENERAL NOTES
STANDARD SITE PLAN NOTES

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MSB	Designed:	MSB	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	6 OF 103

SHEET 1 OF 1

SP-2024-0324D

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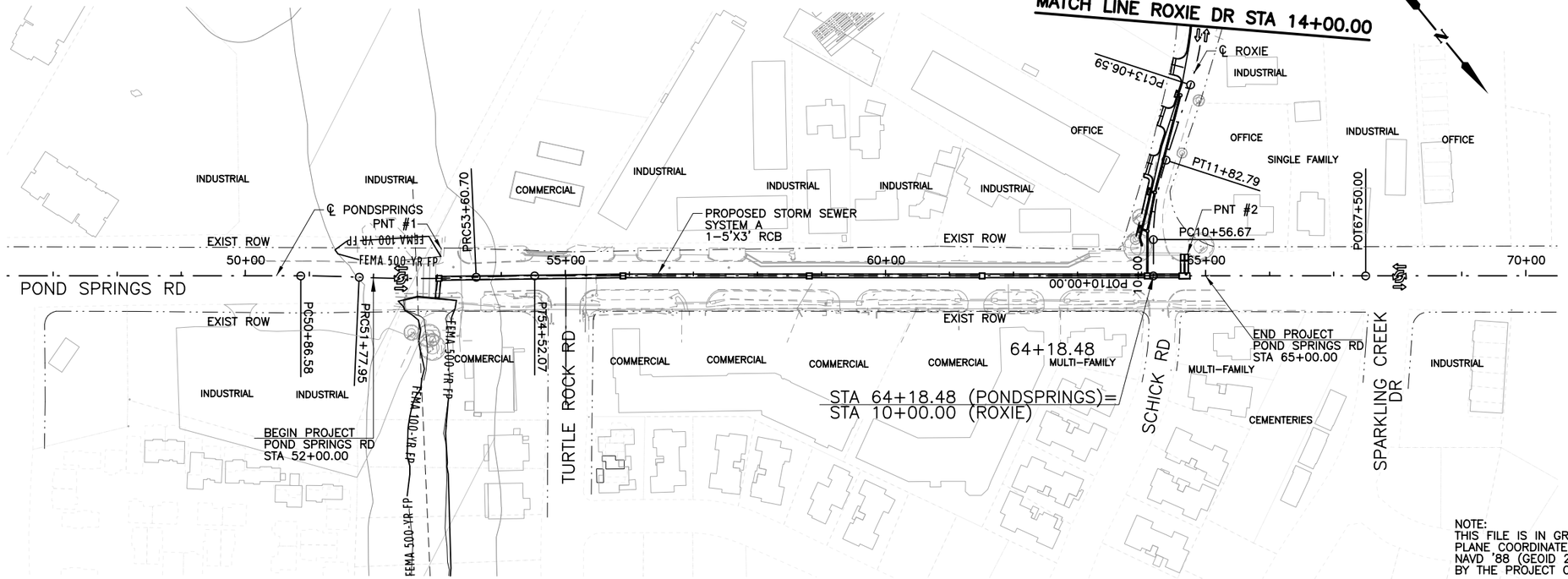
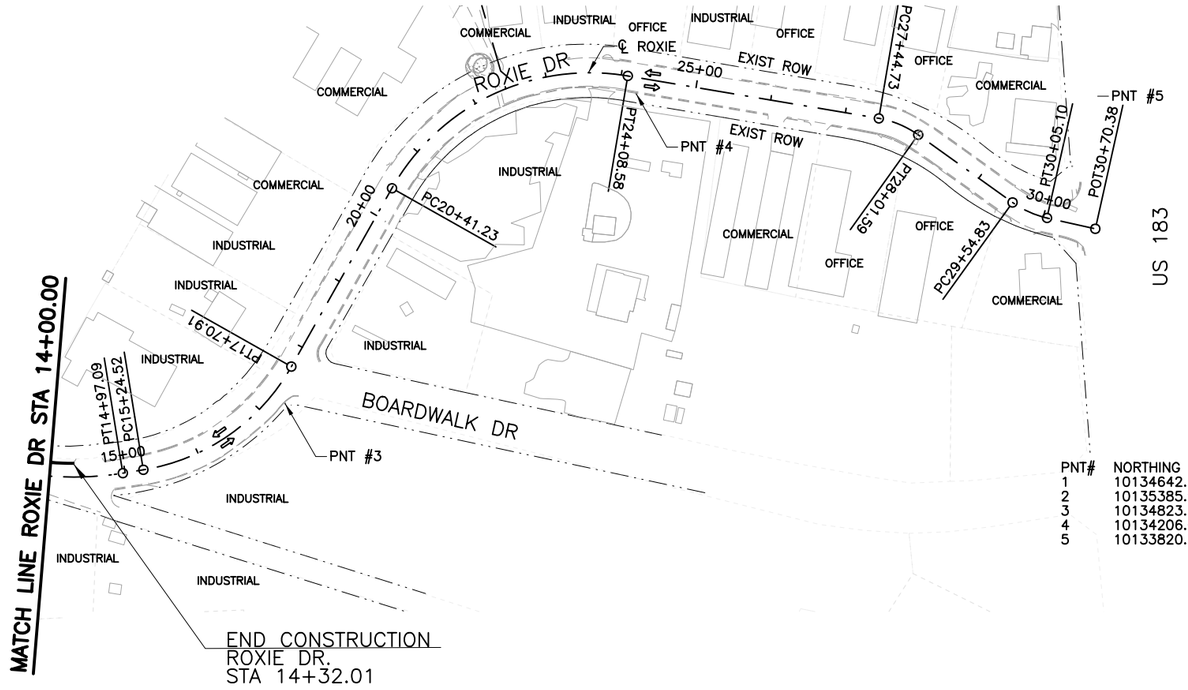


NOTE:
THIS FILE IS IN GRID COORDINATES USING THE TEXAS CENTRAL STATE PLANE COORDINATE SYSTEM NAD '83 (HARN '93) AND THE VERTICAL IS NAVD '88 (GEOID 2012B). TO CONVERT TO SURFACE DISTANCES DIVIDE BY THE PROJECT COMBINED SCALE FACTOR: 0.99989.

	TOTAL SITE AREA (sq.ft)	Impervious Cover (sq.ft)	Impervious cover (%)
PROPOSED	171228.00	155385.04	90.75
ALLOWED		N/A	N/A



CONTROL LIST

PNT#	NORTHING	EASTING	ELEV.	DESCRIPTION
1	10134642.41	3101885.36	923.86	BENCHMARK X CUT
2	10135385.96	3100987.98	933.29	BENCHMARK X CUT
3	10134823.54	3100622.10	937.67	BENCHMARK X ON FH FLANGE BOLT
4	10134206.05	3100645.29	931.70	BENCHMARK X ON FH FLANGE BOLT
5	10133820.69	3100207.36	937.63	BENCHMARK X ON FH FLANGE BOLT

STATE OF TEXAS
BRADLEY MCCONNON
124741
LICENSED
PROFESSIONAL ENGINEER
04/24/2025
SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS
CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD
PROJECT LAYOUT

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	7 OF 103

SHEET 1 OF 1

SP-2024-0324D

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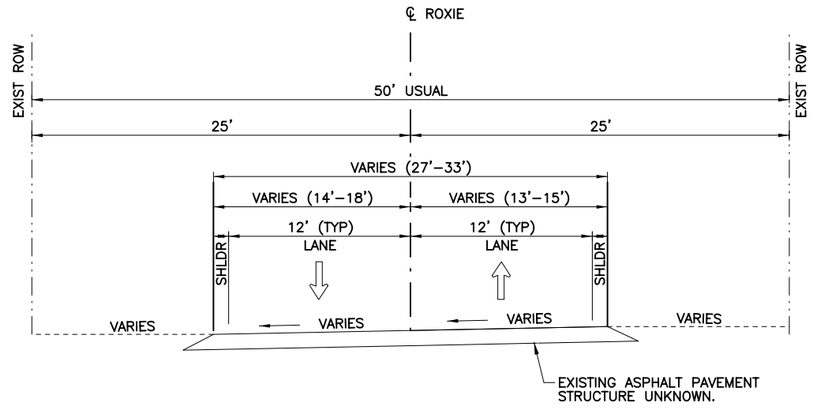
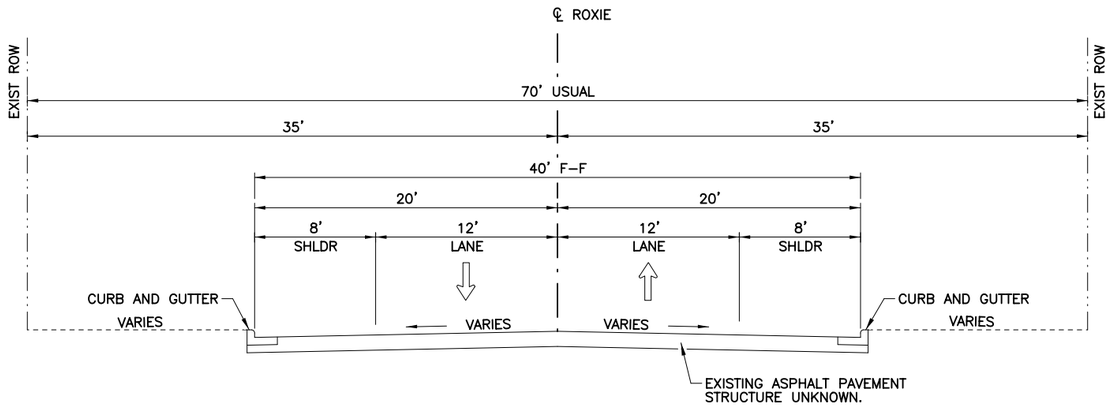


EXISTING TYPICAL SECTION

N.T.S.

ROXIE DR, POND SPRINGS TO STA 14+50.00



EXISTING TYPICAL SECTION

N.T.S.

ROXIE DR, STA 14+50.00 TO STA END

STATE OF TEXAS
BRADLEY MCCONNON
136741
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

TYPICAL SECTIONS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	8 OF 103

SHEET 1 OF 3

SP–2024–0324D

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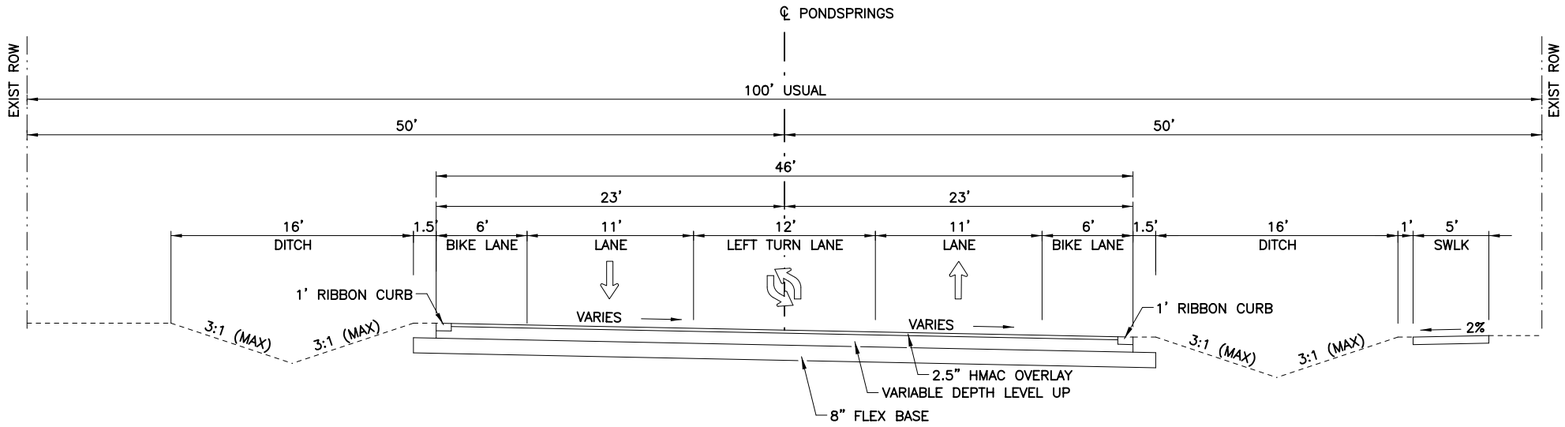

EXISTING TYPICAL SECTION

N.T.S.

POND SPRINGS, BEGIN TO END

STATE OF TEXAS
BRADLEY MCCONNON
136741
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

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WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

TYPICAL SECTIONS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	9 OF 103

SHEET 2 OF 3

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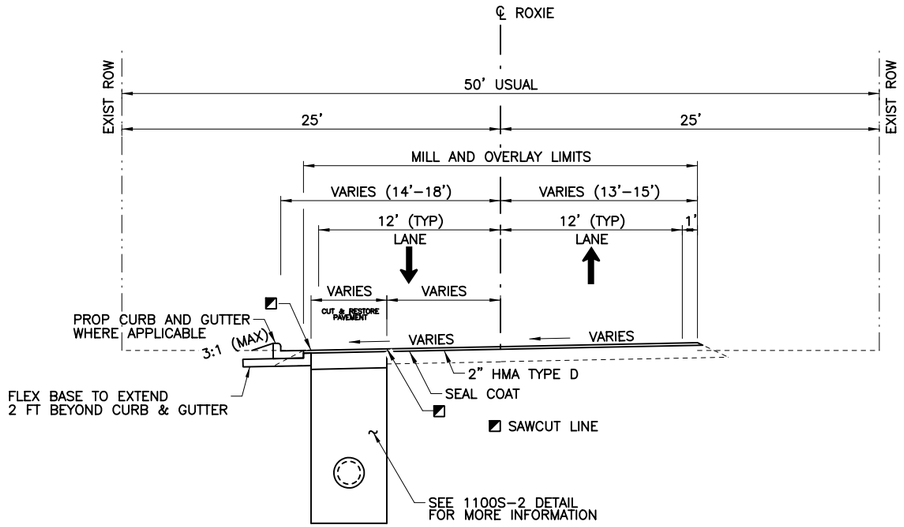
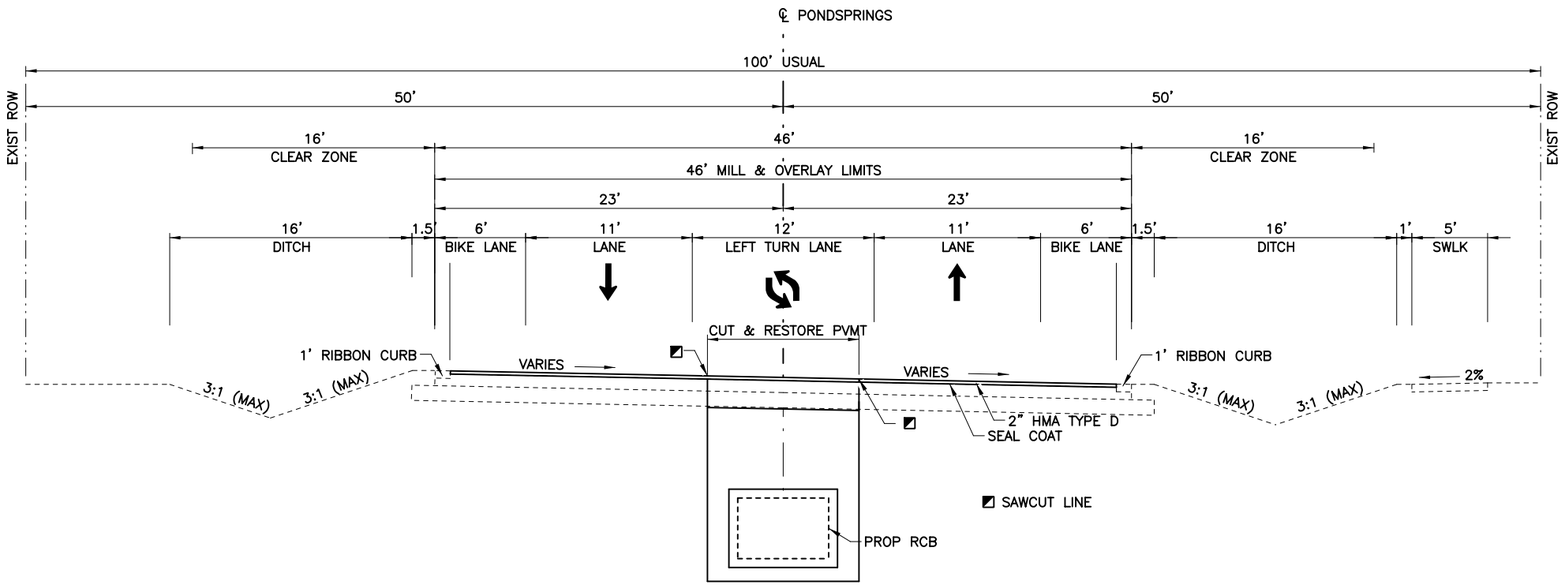


PROPOSED TYPICAL SECTION

N.T.S.

ROXIE DR.
STA 10+00.00 TO STA 12+90.00

NOTES:
1. SURFACE PREPARATION SHALL BE PERFORMED PER CITY OF AUSTIN SPECIFICATIONS.
2. CONTROLLED LOW STRENGTH MATERIAL SHALL BE USED IN LIEU OF FLEX BASE. SEE DETAIL 1100S–2.



PROPOSED TYPICAL SECTION

N.T.S.

POND SPRINGS RD
STA. 52+90.00 TO STA 64+90.00

STATE OF TEXAS
BRADLEY MCCONNON
103741
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

TYPICAL SECTIONS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	10 OF 103

SHEET 3 OF 3

SP–2024–0324D

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Chain ROXIE contains:
A1 CUR ROXIE1 CUR ROXIE2 CUR ROXIE3 CUR ROXIE4 CUR ROXIE5 CUR ROXIE6 A2

Beginning chain ROXIE description

Point A1 N 10,135,378.5086 E 3,101,050.4862 Sta 10+00.00

Course from A1 to PC ROXIE1 S 39° 14′ 34.50" W Dist 56.6705

Curve ROXIE1	Curve Data				
P.I. Station	11+20.26	N	10,135,285.3707	E	3,100,974.4085
Delta =	18° 03′ 57.14"	(RT)			
Degree =	14° 19′ 26.20"				
Tangent =	63.5895				
Length =	126.1236				
Radius =	400.0000				
External =	5.0230				
Long Chord =	125.6018				
Mid. Ord. =	4.9607				
P.C. Station	10+56.67	N	10,135,334.6189	E	3,101,014.6359
P.T. Station	11+82.79	N	10,135,251.0253	E	3,100,920.8920
C.C.		N	10,135,587.6627	E	3,100,704.8475
Back = S	39° 14′ 34.50" W				
Ahead = S	57° 18′ 31.64" W				
Chord Bear = S	48° 16′ 33.07" W				

Course from PT ROXIE1 to PC ROXIE2 S 57° 18′ 31.64" W Dist 123.7924

Curve ROXIE2	Curve Data				
P.I. Station	14+03.68	N	10,135,131.7219	E	3,100,734.9952
Delta =	27° 17′ 15.73"	(LT)			
Degree =	14° 19′ 26.20"				
Tangent =	97.0943				
Length =	190.5041				
Radius =	400.0000				
External =	11.6155				
Long Chord =	188.7087				
Mid. Ord. =	11.2877				
P.C. Station	13+06.59	N	10,135,184.1636	E	3,100,816.7091
P.T. Station	14+97.09	N	10,135,047.6537	E	3,100,686.4171
C.C.		N	10,134,847.5262	E	3,101,032.7536
Back = S	57° 18′ 31.64" W				
Ahead = S	30° 01′ 15.91" W				
Chord Bear = S	43° 39′ 53.78" W				

Course from PT ROXIE2 to PC ROXIE3 S 30° 01′ 15.91" W Dist 27.4332

Curve ROXIE3	Curve Data				
P.I. Station	16+56.68	N	10,134,909.4756	E	3,100,606.5722
Delta =	51° 20′ 04.10"	(LT)			
Degree =	20° 50′ 05.38"				
Tangent =	132.1549				
Length =	246.3878				
Radius =	275.0000				
External =	30.1064				
Long Chord =	238.2291				
Mid. Ord. =	27.1357				
P.C. Station	15+24.52	N	10,135,023.9008	E	3,100,672.6917
P.T. Station	17+70.91	N	10,134,786.3593	E	3,100,654.6064
C.C.		N	10,134,886.3132	E	3,100,910.7981
Back = S	30° 01′ 15.91" W				
Ahead = S	21° 18′ 48.19" E				
Chord Bear = S	4° 21′ 13.86" W				

Course from PT ROXIE3 to PC ROXIE4 S 21° 18′ 48.19" E Dist 270.3162

Curve ROXIE4	Curve Data				
P.I. Station	22+51.91	N	10,134,338.2548	E	3,100,829.4356
Delta =	70° 09′ 34.74"	(RT)			
Degree =	19° 05′ 54.94"				
Tangent =	210.6858				
Length =	367.3551				
Radius =	300.0000				
External =	66.5904				
Long Chord =	344.8303				
Mid. Ord. =	54.4944				
P.C. Station	20+41.23	N	10,134,534.5309	E	3,100,752.8579
P.T. Station	24+08.58	N	10,134,199.6063	E	3,100,670.8005
C.C.		N	10,134,425.4903	E	3,100,473.3760
Back = S	21° 18′ 48.19" E				
Ahead = S	48° 50′ 46.56" W				
Chord Bear = S	13° 45′ 59.18" W				

Course from PT ROXIE4 to PC ROXIE5 S 48° 50′ 46.56" W Dist 336.1478

Curve ROXIE5	Curve Data				
P.I. Station	27+73.66	N	10,133,959.3562	E	3,100,395.9175
Delta =	26° 03′ 39.71"	(RT)			
Degree =	45° 50′ 11.84"				
Tangent =	28.9287				
Length =	56.8564				
Radius =	125.0000				
External =	3.3038				
Long Chord =	56.3675				
Mid. Ord. =	3.2187				
P.C. Station	27+44.73	N	10,133,978.3936	E	3,100,417.6992
P.T. Station	28+01.59	N	10,133,951.8237	E	3,100,367.9867
C.C.		N	10,134,072.5119	E	3,100,335.4390
Back = S	48° 50′ 46.56" W				
Ahead = S	74° 54′ 26.27" W				
Chord Bear = S	61° 52′ 36.41" W				

Course from PT ROXIE5 to PC ROXIE6 S 74° 54′ 26.27" W Dist 153.2471

Curve ROXIE6	Curve Data				
P.I. Station	29+80.31	N	10,133,905.2877	E	3,100,195.4292
Delta =	23° 02′ 18.81"	(LT)			
Degree =	45° 50′ 11.84"				
Tangent =	25.4753				
Length =	50.2623				
Radius =	125.0000				
External =	2.5696				
Long Chord =	49.9244				
Mid. Ord. =	2.5178				
P.C. Station	29+54.83	N	10,133,911.9210	E	3,100,220.0258
P.T. Station	30+05.10	N	10,133,889.5576	E	3,100,175.3903
C.C.		N	10,133,791.2328	E	3,100,252.5734
Back = S	74° 54′ 26.27" W				
Ahead = S	51° 52′ 07.47" W				
Chord Bear = S	63° 23′ 16.87" W				

Course from PT ROXIE6 to A2 S 51° 52′ 07.47" W Dist 65.2813

Point A2 N 10,133,849.2487 E 3,100,124.0402 Sta 30+70.38

Ending chain ROXIE description

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STATE OF TEXAS
BRADLEY MCCONNON
#134743
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

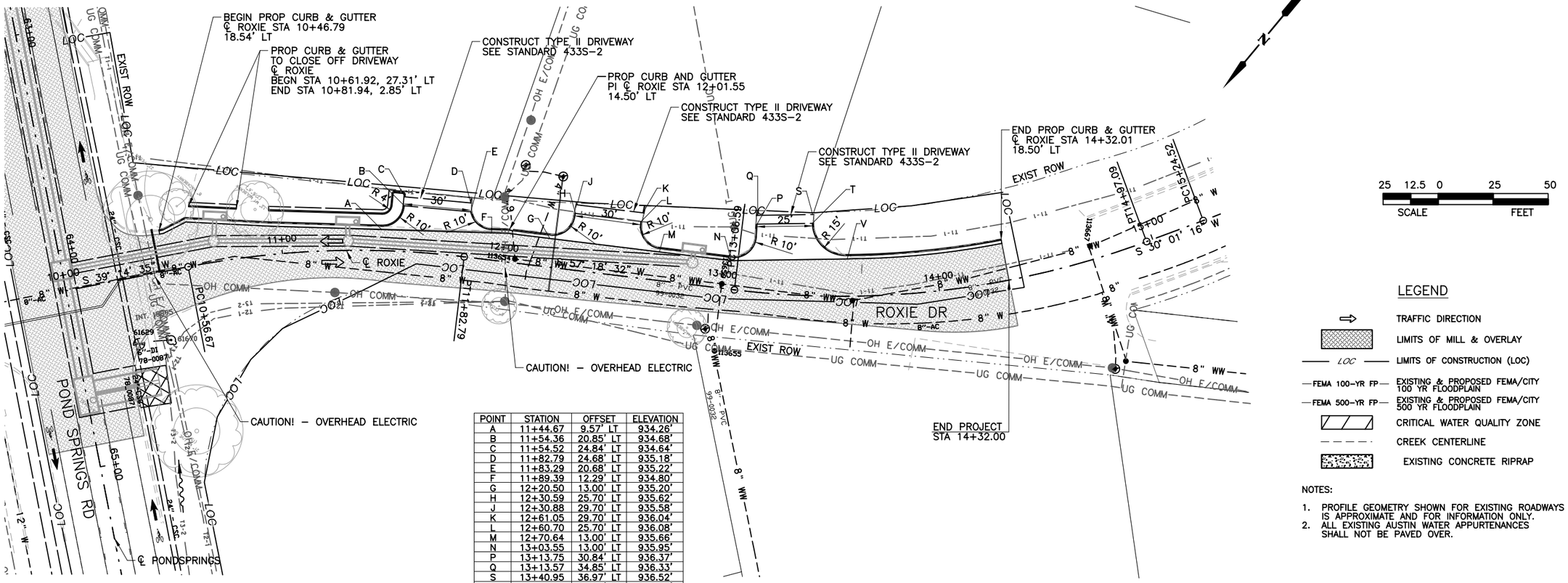
POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

HORIZONTAL ALIGNMENT DATA

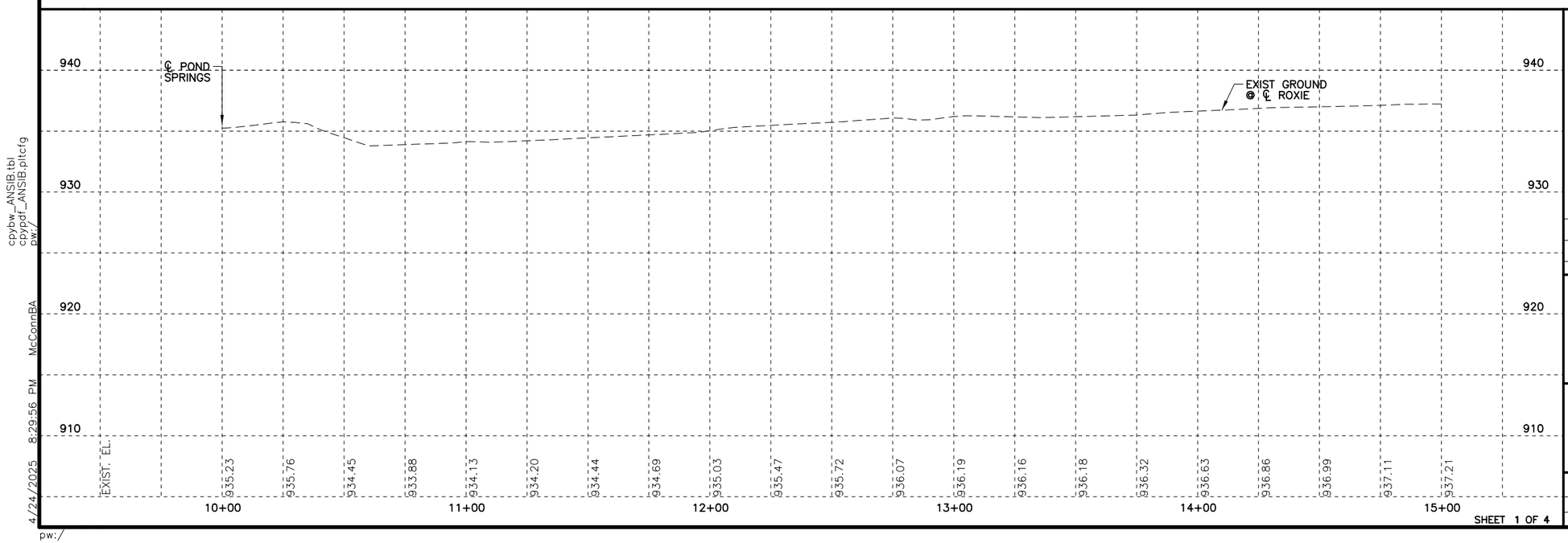
WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	11 OF 103

SP-2024-0324D



POINT	STATION	OFFSET	ELEVATION
A	11+44.67	9.57' LT	934.26'
B	11+54.36	20.85' LT	934.68'
C	11+54.52	24.84' LT	934.64'
D	11+82.79	24.68' LT	935.18'
E	11+83.29	20.68' LT	935.22'
F	11+89.39	12.29' LT	934.80'
G	12+20.50	13.00' LT	935.20'
H	12+30.59	25.70' LT	935.62'
J	12+30.88	29.70' LT	935.58'
K	12+61.05	29.70' LT	936.04'
L	12+60.70	25.70' LT	936.08'
M	12+70.64	13.00' LT	935.66'
N	13+03.55	13.00' LT	935.95'
P	13+13.75	30.84' LT	936.37'
Q	13+13.57	34.85' LT	936.33'
S	13+40.95	36.97' LT	936.52'
T	13+40.96	32.96' LT	936.56'
V	13+58.10	17.00' LT	936.14'



NOTES:

1. PROFILE GEOMETRY SHOWN FOR EXISTING ROADWAYS IS APPROXIMATE AND FOR INFORMATION ONLY.
2. ALL EXISTING AUSTIN WATER APPURTENANCES SHALL NOT BE PAVED OVER.

STATE OF TEXAS
BRADLEY MCCONNON
105741
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY PLAN
ROXIE DR STA 10+00 TO END

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	15 OF 103

SHEET 1 OF 4

SP-2024-0324D

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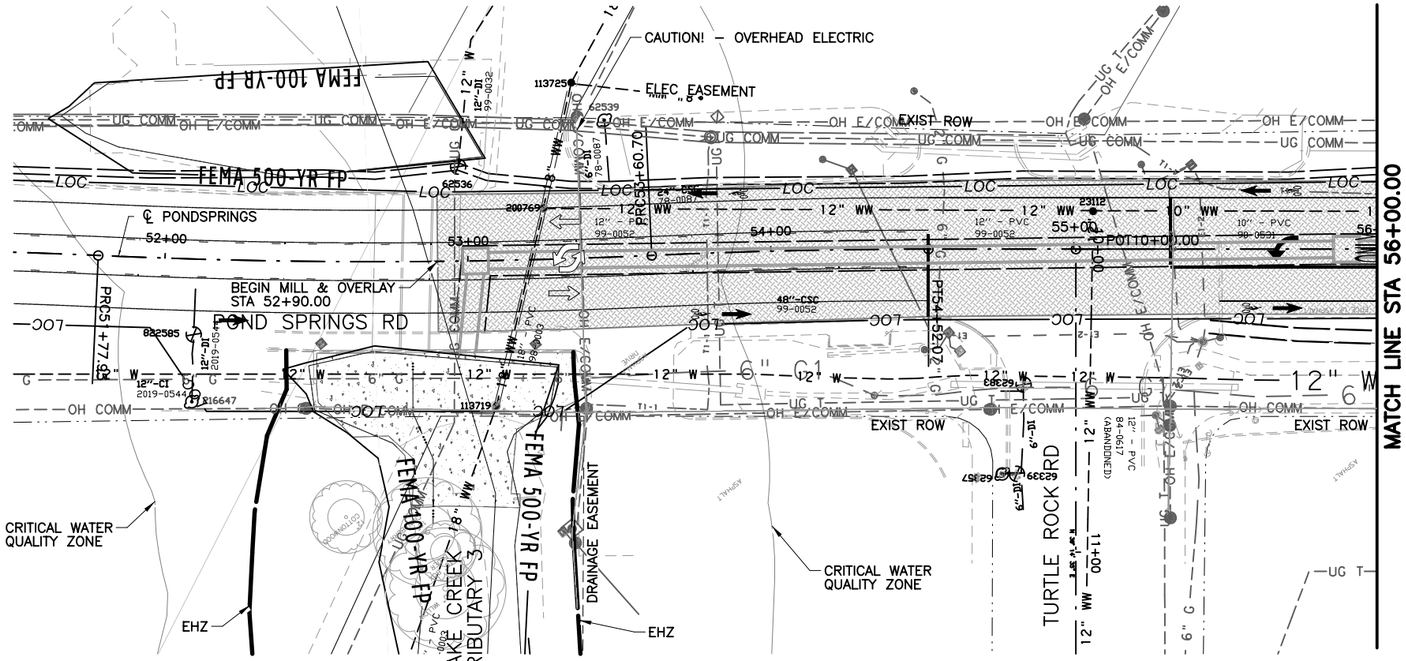

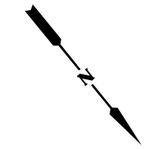

SCALE 25 12.5 0 25 50 FEET

LEGEND

- TRAFFIC DIRECTION
- LIMITS OF MILL & OVERLAY
- LOC — LIMITS OF CONSTRUCTION (LOC)
- FEMA 100-YR FP — EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
- FEMA 500-YR FP — EXISTING & PROPOSED FEMA/CITY 500 YR FLOODPLAIN
- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE
- EXISTING CONCRETE RIPRAP

NOTES:

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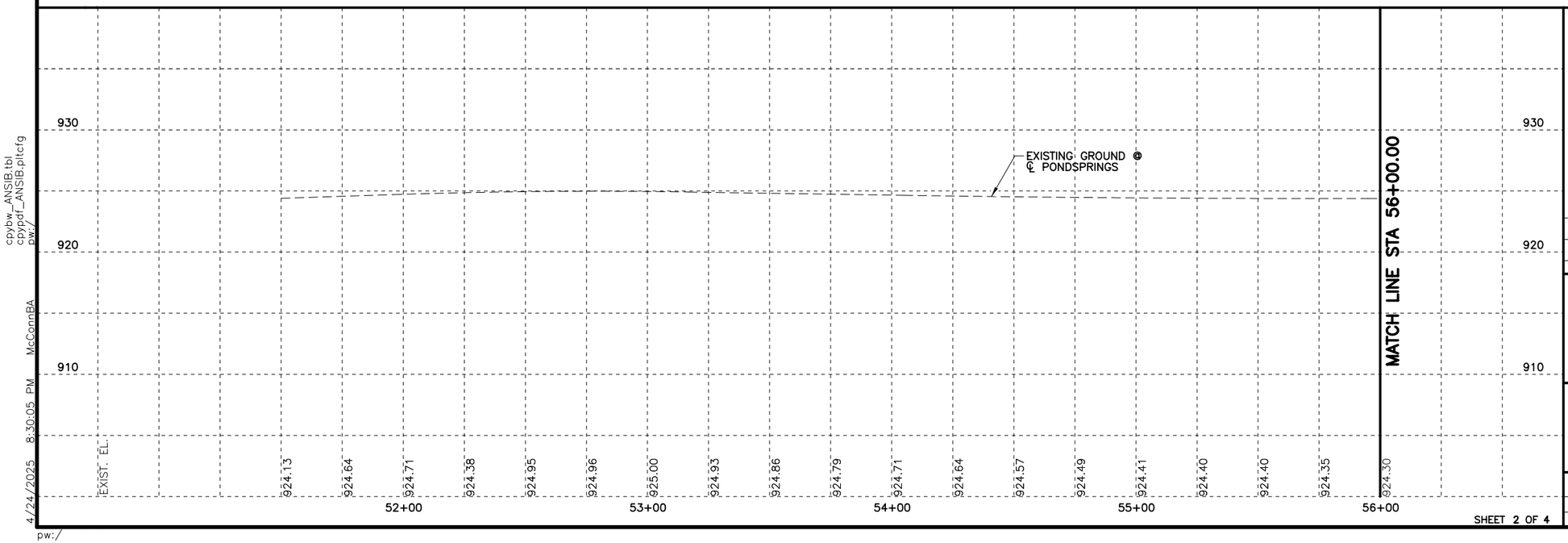

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STATE OF TEXAS
BRADLEY MCCONNON
124741
LICENSED PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

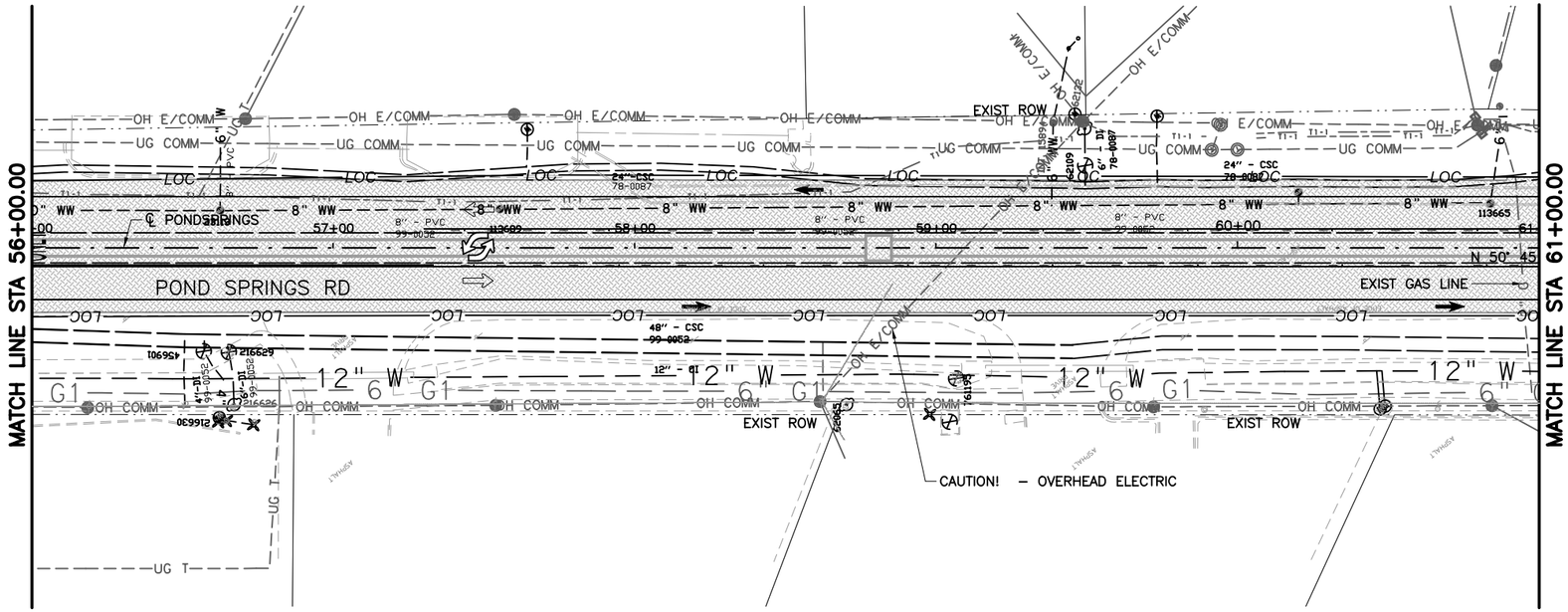
POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

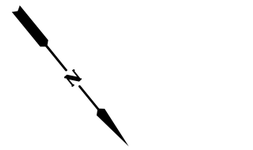
ROADWAY PLAN
POND SPRINGS STA 51+50 TO STA 56+00

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	16 OF 103

SP-2024-0324D





LEGEND

- TRAFFIC DIRECTION
- LIMITS OF MILL & OVERLAY
- LOC — LIMITS OF CONSTRUCTION (LOC)
- FEMA 100-YR FP — EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
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- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE
- EXISTING CONCRETE RIPRAP

NOTES:

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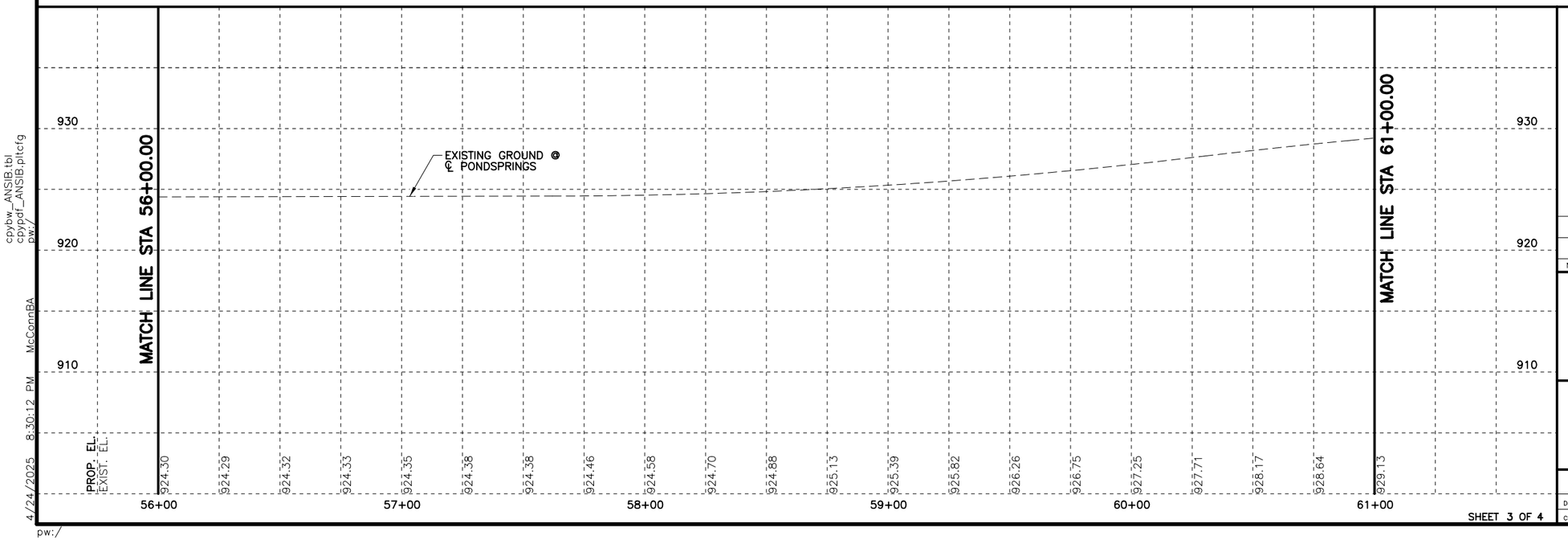

STATE OF TEXAS
BRADLEY MCCONNON
103741
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY PLAN

POND SPRINGS STA 56+00 TO STA 61+00

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	17 OF 103

SHEET 3 OF 4

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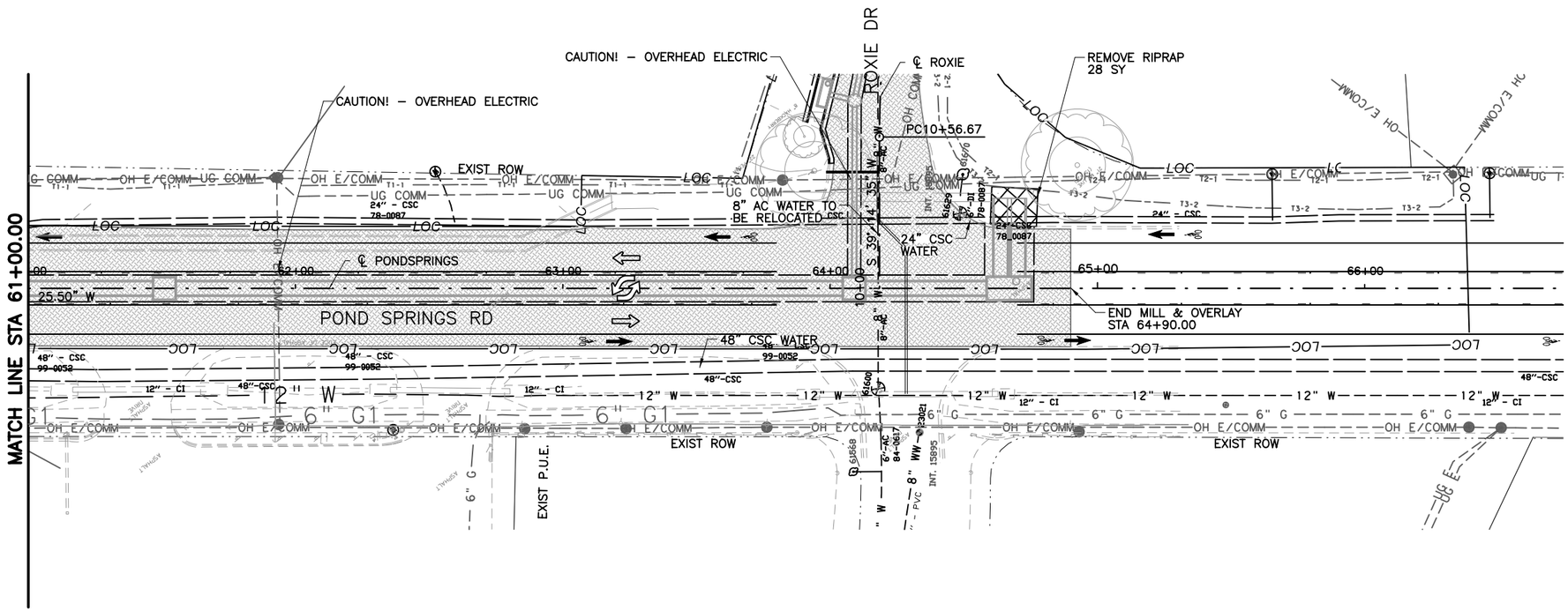

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SCALE FEET

LEGEND

- TRAFFIC DIRECTION
- LIMITS OF MILL & OVERLAY
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- FEMA 100-YR FP — EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
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- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE
- EXISTING CONCRETE RIPRAP

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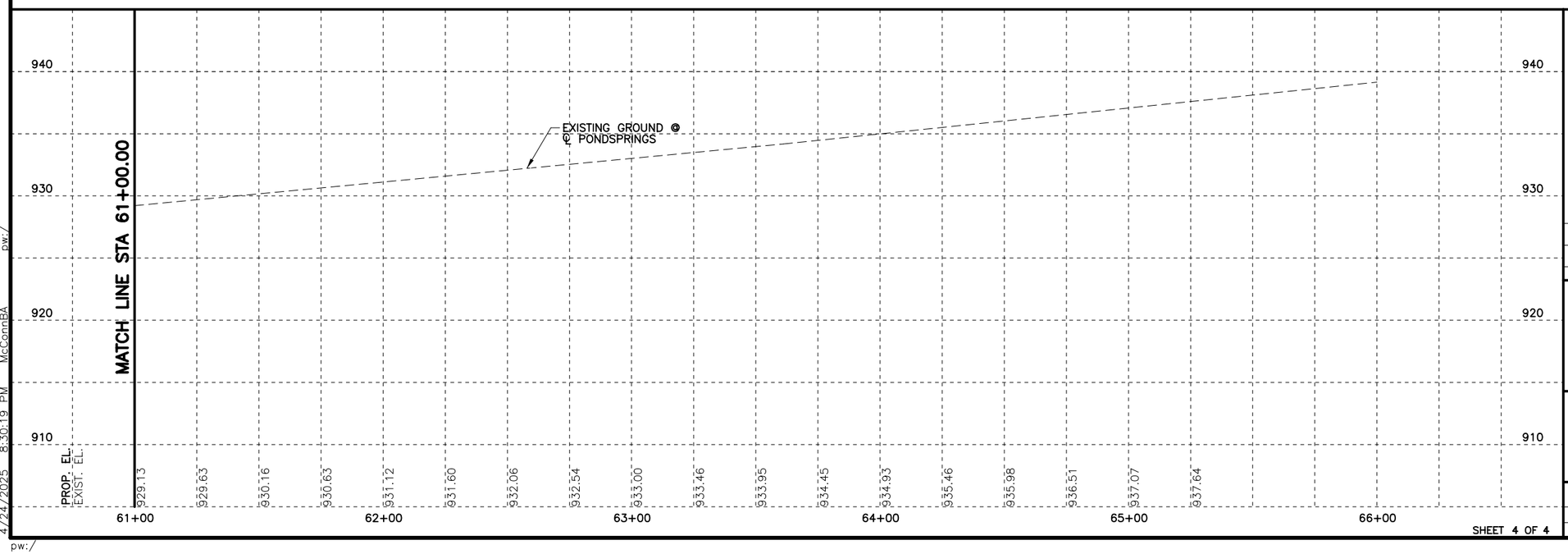

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STATE OF TEXAS
BRADLEY MCCONNON
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SEAL EFFECTIVE UPON
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ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

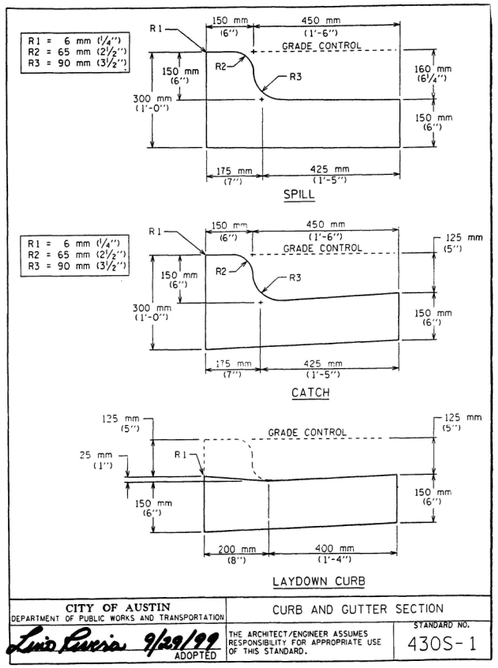
ROADWAY PLAN

POND SPRINGS STA 61+00 TO STA 66+00

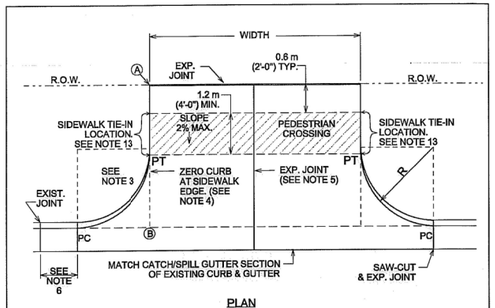
WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	18 OF 103

SP-2024-0324D

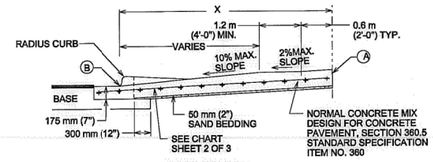


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	CURB AND GUTTER SECTION	
Luis Rivera 9/29/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-1



PLAN

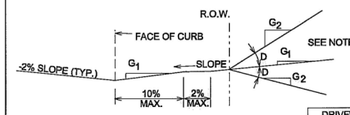
NOTE: ALL DRIVEWAYS SHALL BE SLOPED TOWARDS THE STREET FROM THE R.O.W. LINE. ELEVATION OF POINT Ⓐ ABOVE POINT Ⓑ IS, TYPICALLY A MINIMUM OF 150 mm (6") PLUS 20 mm/m (¼" RISE/FOOT) OVER DISTANCE "X" IN METERS (FEET).



CROSS SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE II DRIVEWAY	
2/24/16 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 433S-2 1 OF 2

USE	THICKNESS	REINFORCEMENT
DRIVEWAYS FOR PASSENGER VEHICLE PARKING LOTS	150 mm (6") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 13M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS
ALL OTHERS	175 mm (7") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 13M (#4) BARS PLACED ON CHAIRS AT MIDDEPTH OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS



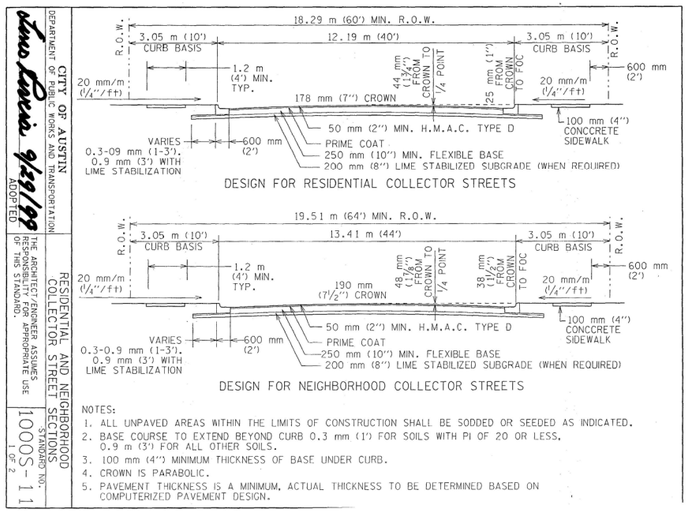
ALLOWABLE GRADES

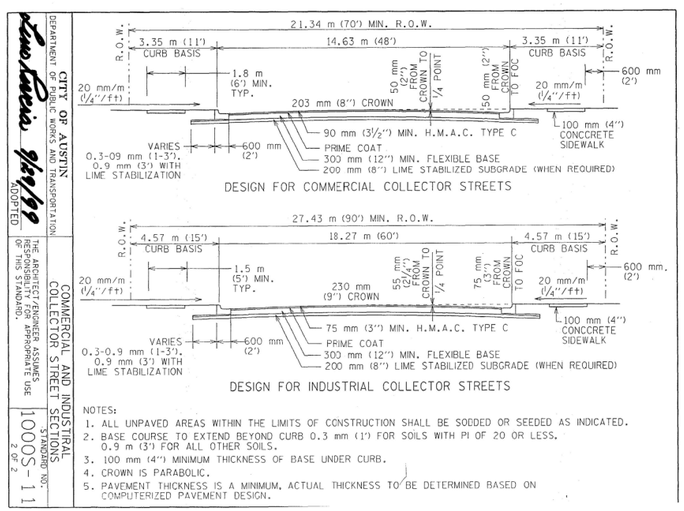
DRIVEWAY VOLUME (ADT)	D=GRADE CHANGE STD.	MAX
>1500	0%	3%
500-1500	3%	6%
< 500	6%	15%

NOTES:

1. ALL TYPE II DRIVEWAYS SHALL HAVE RADIUS ENDS.
2. DRIVEWAY WIDTHS AND RADII DIMENSIONS, ONE/TWO WAY TRAVEL REQUIREMENTS, AND GEOMETRIC LAY-OUT ARE HIGHLY VARIABLE SUBJECT TO SITE SPECIFIC CONDITIONS AND REQUIREMENTS. SEE TRANSPORTATION CRITERIA MANUAL, SECTION 5 "DRIVEWAYS".
3. THE DRIVEWAY EDGE SHALL BE SMOOTHLY TRANSITITIONED INTO THE SIDEWALK TIE-IN LOCATION BEGINNING AT THE RADIUS PC LINE.
4. "ZERO" CURB AT PT OR SIDEWALK EDGE, WHICHEVER IS ENCOUNTERED FIRST.
5. PLACE AN EXPANSION JOINT DOWN THE CENTER OF DRIVEWAY ALL DRIVEWAYS.
6. IF DIMENSION IS LESS THAN 1.5 METERS (5 FEET), REMOVE CURB AND GUTTER TO EXISTING JOINT AND POUR MONOLITHICALLY WITH DRIVEWAY.
7. IF THE BASE IS OVER-EXCAVATED WHERE THE CURB AND GUTTER WERE REMOVED, BACKFILL WITH CONCRETE MONOLITHICALLY WITH THE DRIVEWAY.
8. TYPE II DRIVEWAYS ARE TO BE LOCATED NO CLOSER TO THE CORNER OF INTERSECTING RIGHT OF WAY THAN 60% OF PARCEL FRONTAGE AT 30 METERS (100 FEET); WHICHEVER IS LESS.
9. DRIVEWAY SHALL NOT BE CONSTRUCTED WITHIN THE CURB RETURN OF A STREET INTERSECTION.
10. WHILE THE PROPERTY OWNER REMAINS RESPONSIBLE FOR GRADE BREAKS WITHIN PRIVATE PROPERTY, THE FIRE DEPARTMENT SHALL BE CONSULTED WHERE THE DRIVEWAY IS ESSENTIAL TO EMERGENCY VEHICLE ACCESS AND "G2 IS GREATER THAN 15%.
11. USE 12 MM (1/2") ASPHALT BOARD OR OTHER APPROVED MATERIAL FOR CURB AND GUTTER EXPANSION JOINTS. SIDEWALK, AT THE R.O.W. LINE AND AT MIDWIDTH, SEE NOTE 5.
12. SEE TRANSPORTATION CRITERIA MANUAL, SECTION 5 FOR OTHER DRIVEWAY REQUIREMENTS.
13. THE SIDEWALK, REGARDLESS OF ITS LOCATION WITH RESPECT TO THE CURB OR PROPERTY LINE, SHALL BE CONNECTED TO THE DRIVEWAY AT THESE LOCATIONS.
14. WATER METER BOXES AND WASTEWATER CLEAN OUTS ARE PROHIBITED FROM BEING LOCATED IN DRIVEWAY AREAS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPE II DRIVEWAY	
2/24/16 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 433S-2 2 OF 2





STATE OF TEXAS
BRADLEY MCCONNON
104744
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	19 OF 103

SHEET 1 OF 2

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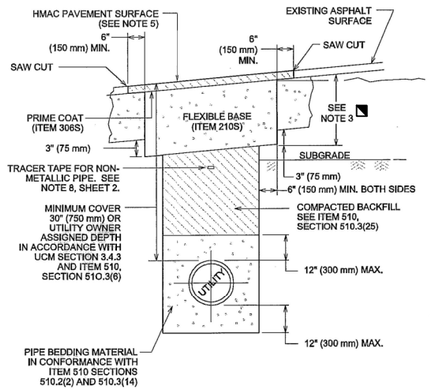
TRENCH REPAIR IN ASPHALTIC SURFACE OVER FLEXIBLE BASE
(UCM SECTION 5.8.0)



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	FLEXIBLE BASE WITH ASPHALT SURFACE TRENCH REPAIR-EXISTING PAVEMENT	
Kris Bunkhead-Shaw 1/4/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-2 1 OF 2

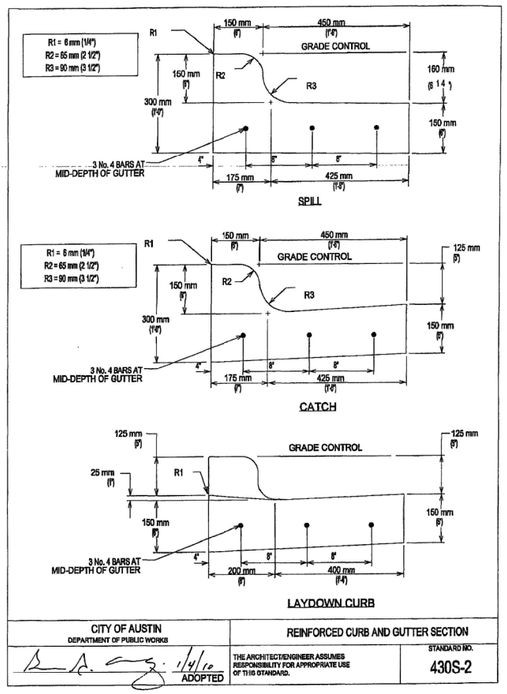
NOTES:

1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE, A MINIMUM OF 12" (300 mm) WIDER THAN UNDISTURBED SIDES OF THE TRENCH AND SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX AC OR TEMPORARY HMAC. TEMPORARY MIX SHALL BE PLACED OVER FLEXIBLE BASE.
3. ~~ROAD BASE SHALL BE REPLACED IN KIND WITH BASE THICKNESS EQUAL TO EXISTING BASE THICKNESS PLUS 3" (75 mm), BUT IN NO CASE LESS THAN 6" (150 mm).~~
4. DAMAGED PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH A BASE THICKNESS OF 10" (250 mm) OR A THICKNESS MATCHING EXISTING, WHICHEVER IS GREATER.
5. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
   a) MIN. 2" (50 mm) HMAC TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
   b) MIN. 3" (75 mm) HMAC TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
   SEE ITEM 340S, SECTION 340S.4.
6. CLASS "J" PC CONCRETE (ITEM 403S) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
7. TACK COAT ALL EXPOSED EDGES AND SURFACES (SPEC ITEM 307S).
8. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(8)(K)5, FOR ALL NON-METALLIC PIPE DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE, OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT, SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	FLEXIBLE BASE WITH ASPHALT SURFACE TRENCH REPAIR-EXISTING PAVEMENT	
Kris Bunkhead-Shaw 1/4/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-2 2 OF 2

◥ NOTES:

1. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE USED IN LIEU OF FLEXBASE TO 3 1/2" OF BOTTOM OF HOT MIX LAYERS. SEE NOTE 6 ON STANDARD 1100S-2.
2. ALL EXCAVATION, REMOVAL, AND MATERIAL BACKFILL SHALL BE SUBSIDIARY TO THE CUT & RESTORE PAY ITEM AND PIPE/BOX ITEMS. NO EXTRA PAYMENT SHALL BE MADE. CLSM IS QUANTIFIED AND PAID FOR SEPARATELY (10" THICKNESS ASSUMED).



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	REINFORCED CURB AND GUTTER SECTION	
ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-2

BRADLEY MOCONNON
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04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

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WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	20 OF 103

SHEET 2 OF 2

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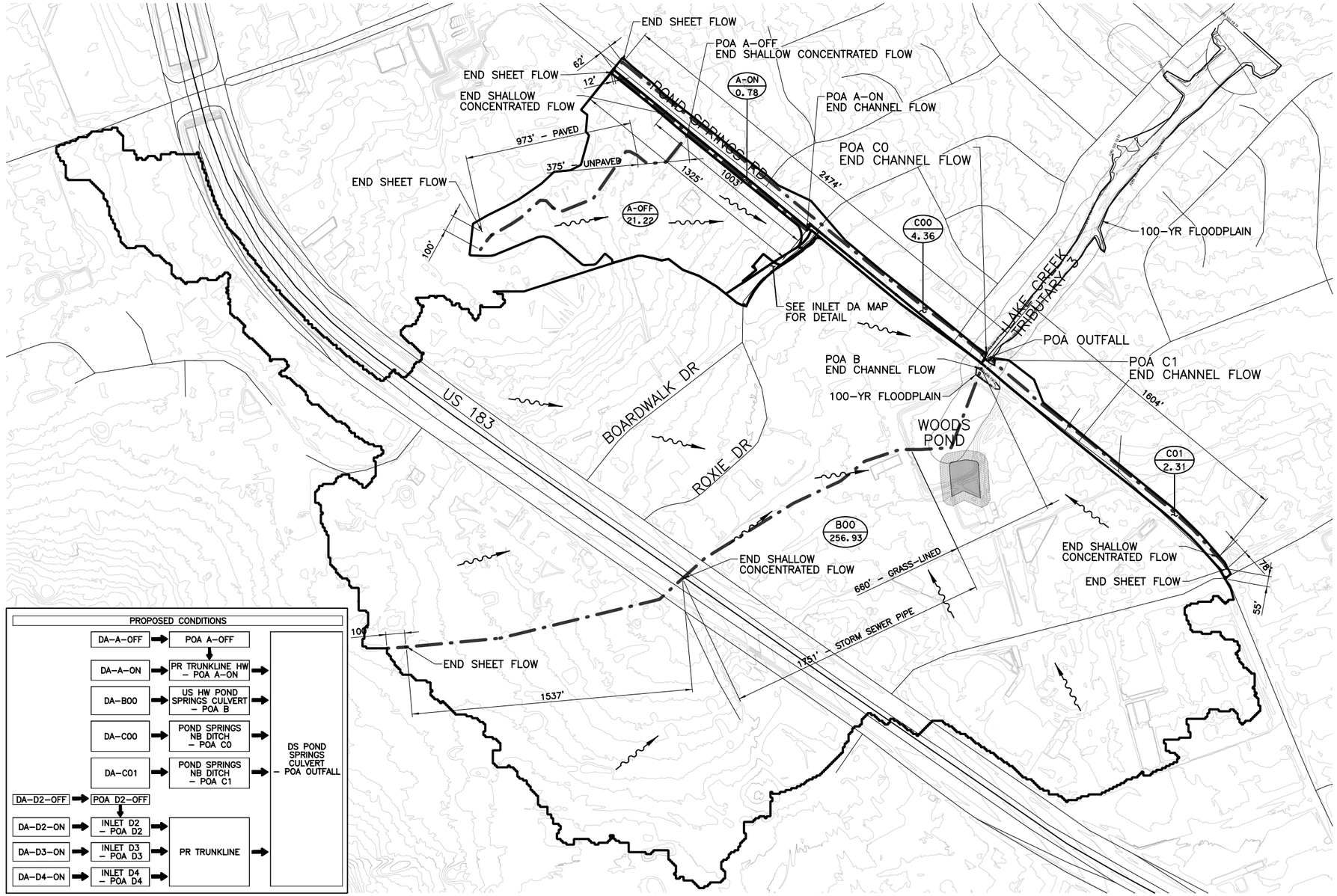

PROPOSED CONDITIONS

DA-A-OFF	POA A-OFF	
DA-A-ON	PR TRUNKLINE HW – POA A-ON	
DA-B00	US HW POND SPRINGS CULVERT – POA B	
DA-C00	POND SPRINGS NB DITCH – POA C0	DS POND SPRINGS CULVERT – POA OUTFALL
DA-C01	POND SPRINGS NB DITCH – POA C1	
DA-D2-OFF	POA D2-OFF	
DA-D2-ON	INLET D2 – POA D2	PR TRUNKLINE
DA-D3-ON	INLET D3 – POA D3	
DA-D4-ON	INLET D4 – POA D4	

PROPOSED (EXTERNAL) DRAINAGE AREAS

DRAINAGE AREA	SHEET FLOW					SHALLOW CONCENTRATED FLOW					CHANNEL FLOW						TOTAL TIME OF CONCENTRATION, Tc (MIN)	Tc USED
	DISTANCE (FT)	SLOPE (%)	TERRAIN	ROUGHNESS (n)	TIME (MIN)	DISTANCE (FT)	SLOPE (%)	TERRAIN	K	TIME (MIN)	DISTANCE (FT)	SLOPE (%)	DESCRIPTION	ROUGHNESS (n)	VELOCITY (FT/S)	TIME (MIN)		
A-OFF	100	2.0	GRASS	0.41	19.44	973	0.9	PAVED	20.32	8.30	0						31.49	31.49
						375	1.1	UNPAVED	16.13	3.75								
A-ON	12	8.3	GRASS	0.41	2.01	0					1325	1.6	GRASS-LINED	0.035	5.68	3.9	5.91	5.91
B00	100	1.2	GRASS	0.41	23.85	1537	1.2	UNPAVED	16.13	14.75	1751	1.0	STORM SEWER PIPE	0.015	7.47	3.9	44.90	44.90
											660	0.5	GRASS-LINED	0.035	4.64	2.4		
C00	62	3.2	PAVEMENT	0.011	0.61	0					2474	1.4	GRASS-LINED	0.035	3.19	12.9	13.51	13.51
C01	55	0.6	PAVEMENT	0.011	1.12	78	1.5	UNPAVED	16.13	0.65	1604	2.1	GRASS-LINED	0.035	3.88	6.9	8.67	8.67

NOTE: SEE INLET DA MAP FOR "D" DRAINAGE AREA TOC CALCULATIONS
NOTE: SEE HYDROLOGIC INFO ON SHEET NAMED "DRAINAGE AREA CALCULATIONS EXISTING & PROPOSED"

STATE OF TEXAS
BRADLEY MCCONNON
87474
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TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE AREA MAP EXTERIOR (PROPOSED)

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	22 OF 103

SHEET 1 OF 1

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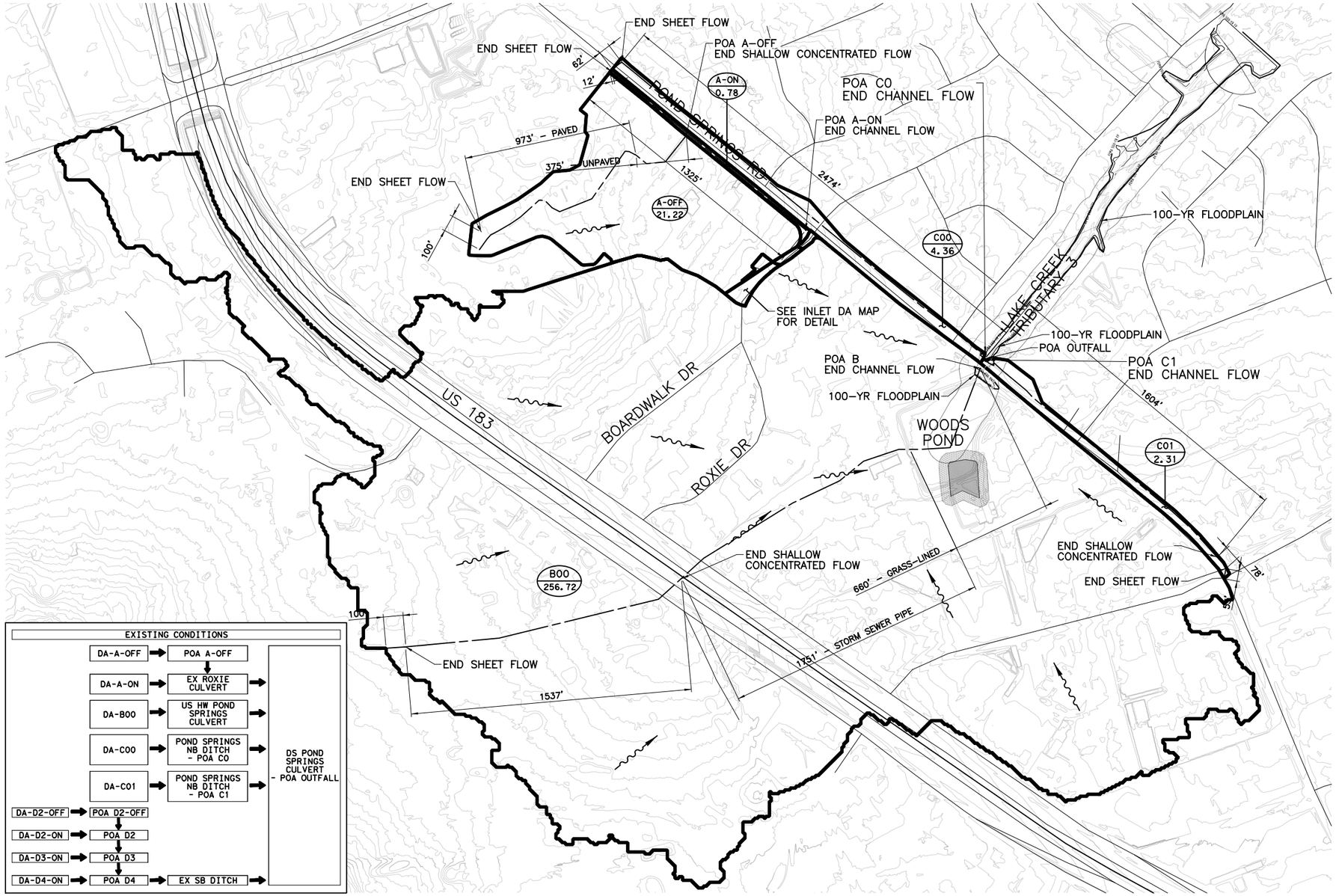

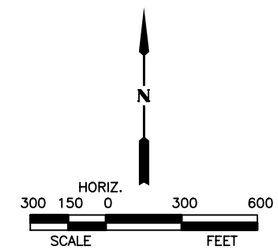

LEGEND

- FLOW DIRECTION
- ℄ DITCH
- STORM SEWER
- DRAINAGE AREA BOUNDARY
- X / XX — DRAINAGE AREA ID
- EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
- EXISTING & PROPOSED FEMA/CITY 500 YR FLOODPLAIN
- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE
- WETLAND
- CEF SETBACK

EXISTING (EXTERNAL) DRAINAGE AREAS

DRAINAGE AREA	SHEET FLOW					SHALLOW CONCENTRATED FLOW					CHANNEL FLOW						TOTAL TIME OF CONCENTRATION, Tc (MIN)	Tc USED
	DISTANCE (FT)	SLOPE (%)	TERRAIN	ROUGHNESS (n)	TIME (MIN)	DISTANCE (FT)	SLOPE (%)	TERRAIN	K	TIME (MIN)	DISTANCE (FT)	SLOPE (%)	DESCRIPTION	ROUGHNESS (n)	VELOCITY (FT/S)	TIME (MIN)		
A-OFF	100	2.0	GRASS	0.41	19.44	973	0.9	PAVED	20.32	8.30	0						31.49	31.49
						375	1.1	UNPAVED	16.13	3.75								
A-ON	12	8.3	GRASS	0.41	2.01	0					1325	1.6	GRASS-LINED	0.035	5.68	3.9	5.91	5.91
B00	100	1.2	GRASS	0.41	23.85	1537	1.2	UNPAVED	16.13	14.75	1751	1.0	STORM SEWER PIPE	0.015	7.47	3.9	44.90	44.90
											660	0.5	GRASS-LINED	0.035	4.64	2.4		
C00	62	3.2	PAVEMENT	0.011	0.61	0					2474	1.4	GRASS-LINED	0.035	3.19	12.9	13.51	13.51
C01	55	0.6	PAVEMENT	0.011	1.12	78	1.5	UNPAVED	16.13	0.65	1604	2.1	GRASS-LINED	0.035	3.88	6.9	8.67	8.67

NOTE: SEE INLET DA MAP FOR "D" DRAINAGE AREA TOC CALCULATIONS
NOTE: SEE HYDROLOGIC INFO ON SHEET NAMED "DRAINAGE AREA CALCULATIONS EXISTING & PROPOSED"

STATE OF TEXAS
BRADLEY MCCONNON
124741
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PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE AREA MAP EXTERIOR (EXISTING)

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	21 OF 103

SHEET 1 OF 1

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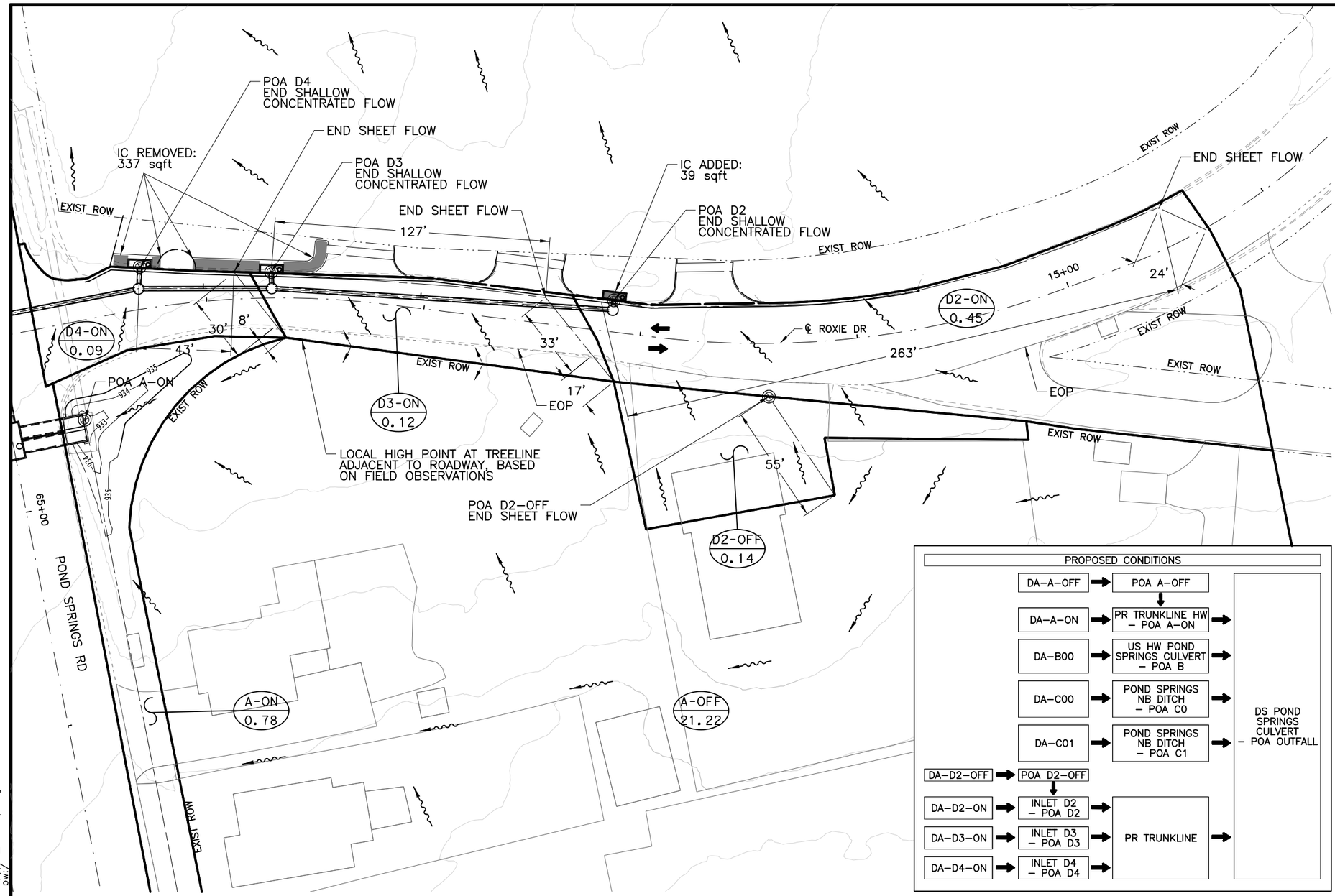

PROPOSED CONDITIONS

DA-A-OFF	POA A-OFF	DS POND SPRINGS CULVERT – POA OUTFALL
DA-A-ON	PR TRUNKLINE HW – POA A-ON	
DA-B00	US HW POND SPRINGS CULVERT – POA B	
DA-C00	POND SPRINGS NB DITCH – POA C0	
DA-C01	POND SPRINGS NB DITCH – POA C1	
DA-D2-OFF	POA D2-OFF	
DA-D2-ON	INLET D2 – POA D2	PR TRUNKLINE
DA-D3-ON	INLET D3 – POA D3	
DA-D4-ON	INLET D4 – POA D4	

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NOTES: HORIZ.

1. SEE EXTERIOR DRAINAGE AREA MAP FOR AREAS NOT SHOWN.
2. SEE HYDROGRAPH METHOD ON SHEET NAMED "DRAINAGE AREA CALCULATIONS EXISTING & PROPOSED"

LEGEND

- TRAFFIC DIRECTION
- FLOW DIRECTION
- ℄ DITCH
- STORM SEWER
- DRAINAGE AREA BOUNDARY
- X / XX — DRAINAGE AREA ID
- FEMA 100-YR FP — EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
- FEMA 500-YR FP — EXISTING & PROPOSED FEMA/CITY 500 YR FLOODPLAIN
- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE
- WETLAND
- CEF SETBACK

PROPOSED DRAINAGE AREA CALCULATIONS – RUNOFF SUMMARY

DRAINAGE AREA ID	AREA A (AC)	COMPUTATION METHOD	RUNOFF COEFFICIENT C	C x A	Tc (MIN)	25-YR INTENSITY I (IN/HR)	25-YR Q (CFS)	100-YR INTENSITY I (IN/HR)	100-YR Q (CFS)
D2-OFF	0.14	RATIONAL	0.88	0.13	5.0	11.8	1.4	15.4	2.0
D2-ON	0.45	RATIONAL	0.91	0.41	5.0	11.8	4.4	15.4	6.3
D3-ON	0.12	RATIONAL	0.84	0.10	5.0	11.8	1.1	15.4	1.6
D4-ON	0.09	RATIONAL	0.94	0.09	5.0	11.8	0.9	15.4	1.4

NOTE: A MINUMUM OF A 5-MIN TIME OF CONCENTRATION WAS USED.

PROPOSED (INTERNAL) DRAINAGE AREAS

DRAINAGE AREA	SHEET FLOW					SHALLOW CONCENTRATED FLOW					CHANNEL FLOW						TOTAL TIME OF CONCENTRATION, Tc (MIN)	Tc USED
	DISTANCE (FT)	SLOPE (%)	TERRAIN	ROUGHNESS (n)	TIME (MIN)	DISTANCE (FT)	SLOPE (%)	TERRAIN	K	TIME (MIN)	DISTANCE (FT)	SLOPE (%)	DESCRIPTION	ROUGHNESS (n)	VELOCITY (FT/S)	TIME (MIN)		
D2-OFF	55	2.8	PAVEMENT	0.011	0.58												0.58	5.00
D2-ON	24	2.1	PAVEMENT	0.011	0.34	263	0.5	PAVED	20.32	3.05	0						3.39	5.00
D3-ON	17	3.8	GRASS	0.13	1.46	127	1.1	PAVED	20.32	0.99	0						2.95	5.00
	33	1.5	PAVEMENT	0.011	0.50													
D4-ON	8	3.3	GRASS	0.13	0.85	43	1.4	PAVED	20.32	0.30	0						1.53	5.00
	30	2.5	PAVEMENT	0.011	0.38													

SHEET 1 OF 1

STATE OF TEXAS
BRADLEY MCCONNON
103741
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE AREA MAP
PROPOSED INLETS
PROPOSED CONDITIONS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	23 OF 103

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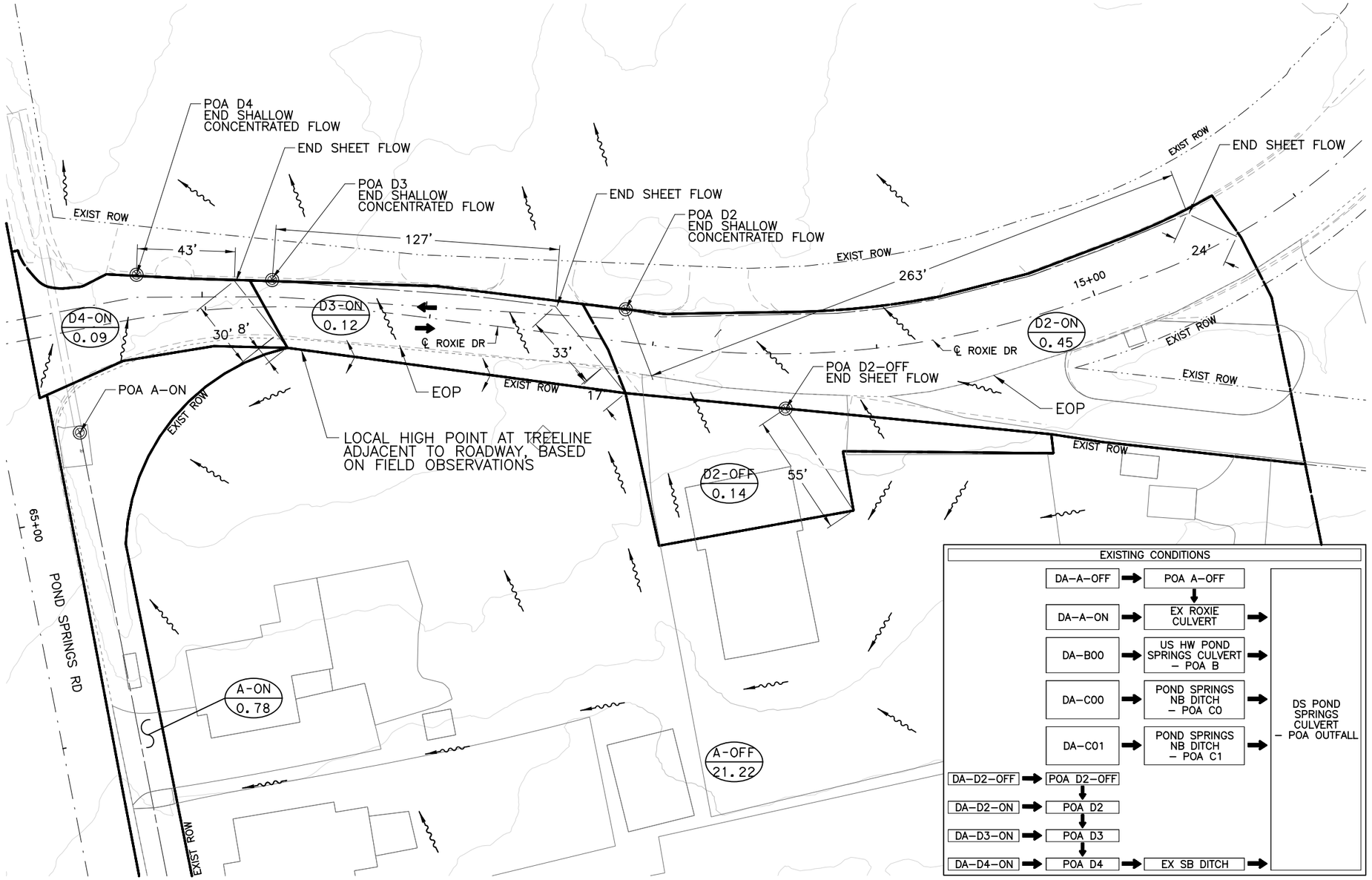

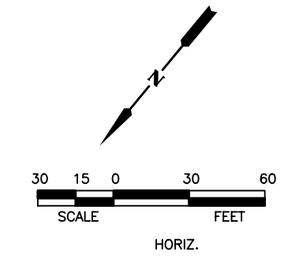

NOTES:

1. SEE EXTERIOR DRAINAGE AREA MAP FOR AREAS NOT SHOWN.
2. NOTE: SEE HYDROLOGIC INFO ON SHEET NAMED "DRAINAGE AREA CALCULATIONS EXISTING & PROPOSED"

LEGEND

- TRAFFIC DIRECTION
- FLOW DIRECTION
- ℄ DITCH
- STORM SEWER
- DRAINAGE AREA BOUNDARY
- X / XX — DRAINAGE AREA ID
- FEMA 100-YR FP — EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
- FEMA 500-YR FP — EXISTING & PROPOSED FEMA/CITY 500 YR FLOODPLAIN
- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE
- WETLAND
- CEF SETBACK

EXISTING (INTERNAL) DRAINAGE AREAS

DRAINAGE AREA	SHEET FLOW					SHALLOW CONCENTRATED FLOW					CHANNEL FLOW						TOTAL TIME OF CONCENTRATION, Tc (MIN)	Tc USED
	DISTANCE (FT)	SLOPE (%)	TERRAIN	ROUGHNESS (n)	TIME (MIN)	DISTANCE (FT)	SLOPE (%)	TERRAIN	K	TIME (MIN)	DISTANCE (FT)	SLOPE (%)	DESCRIPTION	ROUGHNESS (n)	VELOCITY (FT/S)	TIME (MIN)		
D2-OFF	55	2.8	PAVEMENT	0.011	0.58												0.58	5.00
D2-ON	24	2.1	PAVEMENT	0.011	0.34	263	0.5	PAVED	20.32	3.05	0						3.39	5.00
D3-ON	17	3.8	GRASS	0.41	3.66	127	1.1	PAVED	20.32	0.99	0						5.15	5.15
	33	1.5	PAVEMENT	0.011	0.50													
D4-ON	8	3.3	GRASS	0.41	2.12	43	1.4	PAVED	20.32	0.30	0						2.80	5.00
	30	2.5	PAVEMENT	0.011	0.38													

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

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TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE AREA MAP
FUTURE INLETS
EXISTING CONDITIONS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	24 OF 103

SHEET 1 OF 1

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EXISTING DRAINAGE AREA CALCULATIONS - RUNOFF SUMMARY								
DRAINAGE AREA ID	AREA A (AC)	COMPUTATION METHOD	CURVE NUMBER	Tc (MIN)	2-YR Q (CFS)	10-YR Q (CFS)	25-YR Q (CFS)	100-YR Q (CFS)
A-ON	0.78	HYDROGRAPH	96.30	5.90	4.20	6.50	8.00	10.50
A-OFF	21.22	HYDROGRAPH	93.82	31.49	58.30	91.20	113.20	149.60
B00	256.93	HYDROGRAPH	93.10	44.88	572.10	904.90	1128.90	1501.20
C00	4.36	HYDROGRAPH	89.54	13.53	15.90	26.30	33.10	44.40
C01	2.31	HYDROGRAPH	85.58	8.67	8.70	15.30	19.60	26.80
D2-ON	0.45	HYDROGRAPH	95.93	3.39	2.50	3.90	4.70	6.20
D2-OFF	0.14	HYDROGRAPH	95.21	0.58	0.80	1.20	1.50	2.00
D3-ON	0.12	HYDROGRAPH	94.33	2.95	0.60	1.00	1.20	1.60
D4-ON	0.09	HYDROGRAPH	97.20	1.53	0.50	0.80	1.00	1.30

PROPOSED DRAINAGE AREA CALCULATIONS - RUNOFF SUMMARY								
DRAINAGE AREA ID	AREA A (AC)	COMPUTATION METHOD	CURVE NUMBER	Tc (MIN)	2-YR Q (CFS)	10-YR Q (CFS)	25-YR Q (CFS)	100-YR Q (CFS)
A-ON	0.78	HYDROGRAPH	96.30	5.90	4.20	6.50	8.00	10.50
A-OFF	21.22	HYDROGRAPH	93.82	31.49	58.30	91.20	113.20	149.60
B00	256.93	HYDROGRAPH	93.10	44.88	572.10	904.90	1128.90	1501.20
C00	4.36	HYDROGRAPH	89.54	13.53	15.90	26.30	33.10	44.40
C01	2.31	HYDROGRAPH	85.58	8.67	8.70	15.30	19.60	26.80
D2-ON	0.45	HYDROGRAPH	95.93	3.39	2.50	3.90	4.70	6.20
D2-OFF	0.14	HYDROGRAPH	95.21	0.58	0.80	1.20	1.50	2.00
D3-ON	0.12	HYDROGRAPH	94.33	2.95	0.60	1.00	1.20	1.60
D4-ON	0.09	HYDROGRAPH	97.20	1.53	0.50	0.80	1.00	1.30

NCRS ANALYSIS RESULTS - PEAK FLOW (CFS)					
POA	SCENARIO	2-yr	10-yr	25-yr	100-yr
OUTFALL	EXISTING	636.50	1006.70	1255.70	1669.20
	PROPOSED	636.50	1006.70	1255.70	1669.20
	NET CHANGE	0.00	0.00	0.00	0.00
A-OFF	EXISTING	58.30	91.20	113.20	149.60
	PROPOSED	58.30	91.20	113.20	149.60
	NET CHANGE	0.00	0.00	0.00	0.00
A-ON	EXISTING	59.30	92.60	115.00	152.00
	PROPOSED	59.30	92.60	115.00	152.00
	NET CHANGE	0.00	0.00	0.00	0.00
D2-OFF	EXISTING	0.80	1.20	1.50	2.00
	PROPOSED	0.80	1.20	1.50	2.00
	NET CHANGE	0.00	0.00	0.00	0.00
D2	EXISTING	3.30	5.10	6.20	8.20
	PROPOSED	3.30	5.10	6.20	8.20
	NET CHANGE	0.00	0.00	0.00	0.00
D3	EXISTING	3.90	6.10	7.50	9.80
	PROPOSED	0.60	1.00	1.20	1.60
	NET CHANGE	-3.30	-5.10	-6.30	-8.20
D4	EXISTING	4.40	6.90	8.40	11.10
	PROPOSED	0.50	0.80	1.00	1.30
	NET CHANGE	-3.90	-6.10	-7.40	-9.80

NOTE: ANALYSIS COMPLETED IN HEC-HMS v4.12

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STATE OF TEXAS
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SEAL EFFECTIVE UPON
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NO.	REVISION	BY	DATE

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ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE AREA CALCULATIONS
EXISTING & PROPOSED

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	25 OF 103

SHEET 1 OF 1

SP-2024-0324D

LINK CONFIGURATION AND CALCULATIONS – (25–YR DESIGN STORM)

ID	NODE UPSTREAM	NODE DOWNSTREAM	SHAPE	NO.	PIPE CLASS	HYD. LEN. (FT)	n	SLOPE (%)	DIAMETER (IN)	RISE (FT)	SPAN (FT)	FL US (FT)	FL DS (FT)	TOTAL TC (MIN)	Q (CFS)	CAP. (CFS)	DEPTH (FT)	VELOCITY (FT/S)	HGL US (FT)	HGL DS (FT)	JCT. LOSS (FT)
L–D03	D02	MH03–R	Circle	1	V	6.50	0.013	2.34	18.00	N/A	N/A	931.75	931.60	3.39	5.42	16.06	1.91	3.07	933.53	933.51	0.02
L–D04	D03	MH02–R	Circle	1	V	9.00	0.013	2.14	18.00	N/A	N/A	931.20	931.01	5.15	1.37	15.37	1.99	0.77	933.00	933.00	0.00
L–D05	D04	MH04–R	Circle	1	V	11.51	0.013	0.43	18.00	N/A	N/A	930.75	930.70	2.80	0.94	6.92	1.88	0.53	932.58	932.58	0.00
L–R03	MH03–R	MH02–R	Circle	1	V	156.84	0.013	0.38	18.00	N/A	N/A	931.60	931.01	3.43	5.42	6.45	1.91	3.07	933.33	932.91	0.42
L–R04	MH02–R	MH04–R	Circle	1	V	61.19	0.013	0.50	18.00	N/A	N/A	931.01	930.70	5.34	6.68	7.44	1.75	3.78	932.70	932.45	0.25
L–R05	MH04–R	MH01	Circle	1	V	70.31	0.013	0.14	18.00	N/A	N/A	930.70	930.60	5.61	7.49	3.96	1.06	4.24	932.21	931.66	0.34
L–PS01	JCT01	MH01	Box	1	N/A	57.79	0.013	1.38	N/A	3.00	5.00	925.50	924.70	33.35	88.45	193.22	4.16	5.90	929.03	928.86	0.17
L–PS02	MH01	MH02	Box	1	N/A	258.32	0.013	1.21	N/A	3.00	5.00	924.70	921.58	33.52	91.65	180.49	2.77	12.09	926.89	924.35	3.05
L–PS03	MH02	MH03	Box	1	N/A	270.00	0.013	0.49	N/A	3.00	5.00	920.23	918.90	33.87	91.10	115.19	3.67	6.07	923.40	922.57	0.83
L–PS04	MH03	MH04	Box	1	N/A	290.89	0.013	0.31	N/A	4.00	5.00	917.90	916.99	34.61	90.00	137.17	5.16	4.50	922.54	922.15	0.39
L–PS05	MH04	MH05	Box	1	N/A	287.46	0.013	0.50	N/A	4.00	5.00	916.99	915.55	35.69	88.45	173.57	6.05	4.42	921.97	921.60	0.37
L–PS06	MH05	HW–PS06	Box	1	N/A	29.84	0.013	0.50	N/A	4.00	5.00	915.55	915.40	36.77	86.95	173.89	2.01	8.70	917.66	917.41	0.14
L–PS07	A01	JCT01	Box	2	N/A	24.50	0.013	3.06	N/A	2.00	5.00	932.50	931.75	33.32	88.49	319.60	0.86	13.12	933.85	932.61	0.26

NOTE: STORM SEWER DESIGNED USING RATIONAL METHODOLOGY
NOTE: TAILWATER ELEVATION FOR SYSTEM SET AT DOWNSTREAM CHANNEL 25–YR WSEL = 916.50'.
NOTE: ACTUAL TIME OF CONCENTRATION USED FOR LINK CALCULATIONS.

LINK CONFIGURATION AND CALCULATIONS – (100–YR DESIGN STORM)

ID	NODE UPSTREAM	NODE DOWNSTREAM	SHAPE	NO.	PIPE CLASS	HYD. LEN. (FT)	n	SLOPE (%)	DIAMETER (IN)	RISE (FT)	SPAN (FT)	FL US (FT)	FL DS (FT)	TOTAL TC (MIN)	Q (CFS)	CAP. (CFS)	DEPTH (FT)	VELOCITY (FT/S)	HGL US (FT)	HGL DS (FT)	JCT. LOSS (FT)
L–D03	D02	MH03–R	Circle	1	V	6.50	0.013	2.34	18.00	N/A	N/A	931.75	931.60	3.39	6.99	16.06	3.70	3.96	935.33	935.30	0.03
L–D04	D03	MH02–R	Circle	1	V	9.00	0.013	2.14	18.00	N/A	N/A	931.20	931.01	5.15	2.81	15.37	3.42	1.59	934.44	934.43	0.01
L–D05	D04	MH04–R	Circle	1	V	11.51	0.013	0.43	18.00	N/A	N/A	930.75	930.70	2.80	1.35	6.92	2.84	0.76	933.54	933.54	0.00
L–R03	MH03–R	MH02–R	Circle	1	V	156.84	0.013	0.38	18.00	N/A	N/A	931.60	931.01	3.42	6.99	6.45	3.30	3.96	935.00	934.31	0.70
L–R04	MH02–R	MH04–R	Circle	1	V	61.19	0.013	0.50	18.00	N/A	N/A	931.01	930.70	5.24	9.70	7.44	2.57	5.49	933.79	933.27	0.52
L–R05	MH04–R	MH01	Circle	1	V	70.31	0.013	0.14	18.00	N/A	N/A	930.70	930.60	5.43	10.93	3.96	1.27	6.18	932.75	931.87	0.75
L–PS01	JCT01	MH01	Box	1	N/A	57.79	0.013	1.38	N/A	3.00	5.00	925.50	924.70	32.77	130.92	193.22	5.12	8.73	930.19	929.82	0.37
L–PS02	MH01	MH02	Box	1	N/A	258.32	0.013	1.21	N/A	3.00	5.00	924.70	921.58	32.88	135.76	180.49	4.67	9.05	928.02	926.25	1.77
L–PS03	MH02	MH03	Box	1	N/A	270.00	0.013	0.49	N/A	3.00	5.00	920.23	918.90	33.35	134.70	115.19	4.80	8.98	925.51	923.70	1.82
L–PS04	MH03	MH04	Box	1	N/A	290.89	0.013	0.31	N/A	4.00	5.00	917.90	916.99	33.86	133.62	137.17	5.76	6.68	923.62	922.75	0.86
L–PS05	MH04	MH05	Box	1	N/A	287.46	0.013	0.50	N/A	4.00	5.00	916.99	915.55	34.58	132.09	173.57	5.97	6.60	922.35	921.52	0.83
L–PS06	MH05	HW–PS06	Box	1	N/A	29.84	0.013	0.50	N/A	4.00	5.00	915.55	915.40	35.31	130.60	173.89	5.25	6.53	920.73	920.65	0.08
L–PS07	A01	JCT01	Box	2	N/A	24.50	0.013	3.06	N/A	2.00	5.00	932.50	931.75	32.74	130.98	319.60	1.16	14.97	934.25	932.91	0.24

NOTE: STORM SEWER DESIGNED USING RATIONAL METHODOLOGY
NOTE: TAILWATER ELEVATION FOR SYSTEM SET AT DOWNSTREAM CHANNEL 100–YR WSEL = 921.68'.
NOTE: ACTUAL TIME OF CONCENTRATION USED FOR LINK CALCULATIONS.

NOTES:

1. ALLOWABLE HEADWATER BASED ON GUTTER FLOW LINE ELEVATION.

INLETS – OUTFALL A (25–YR DESIGN STORM)

INLET CONFIGURATION					INLET FLOW CALCULATION TABLE – DCM 4.4.3																
INLET ID	TYPE		OPENING (FT)	WIDTH (FT)	CONTRIBUTING DRAINAGE AREAS	DRAINAGE AREA DISCHARGE (CFS)	Qpass UPSTREAM (CFS)	Qa (CFS)	LONG SLOPE (%)	CROSS SLOPE (%)	GUTTER DEPRESSION (FT)	Yo (GUTTER DEPTH) (FT)	PONDED WIDTH (FT)*	REDUCTION FACTOR	Qa/La	La	L (FT)	L/La	GUTTER DEPRESSION / GUTTER DEPTH (FT/FT)	Q/Qa	Q (CFS)	Qpass (CFS)
D02	Curb	On Grade	10.00	3.50	D2–ON	4.35	0.00	5.70	0.6	2.95	0.25	0.33	9.89	N/A	10.257	0.556	10.00	17.980	0.755	0.950	5.42	0.28
					D2–OFF	1.35																
D03	Curb	On Grade	10.00	3.50	D3–ON	1.09	0.28	1.37	1.2	2.06	0.25	0.19	6.62	N/A	3.050	0.450	10.00	22.246	1.322	0.998	1.37	0.00
D04	Curb	In Sag	10.00	3.50	D4–ON	0.94	0.00	0.94	0.0	2.18	0.25	0.66	5.05	N/A	N/A	N/A	10.00	N/A	0.377	1.000	0.94	0.00

*NOTE: FOR A CLEAR WIDTH OF 12', THE MAX PONDED WITDH ALLOWED IS 12'.

RUNOFF – STORM DRAIN OUTFALL A

Flow Calculations – Storm Drain Drainage Areas									
ID	Outflow Element	Computation Method	Tc	C Value	A	AEP = 4%		AEP = 1%	
						I	Q	I	Q
A1–OFF	A01	Rational Method	31.49	0.84	21.22	5.43	87.77	7.17	128.59
A1–ON	A01	Rational Method	5.90	0.91	0.78	11.25	7.37	14.70	10.58
D2–OFF	D02	Rational Method	1.39	0.88	0.14	11.79	1.35	15.42	1.96
D2–ON	D02	Rational Method	3.39	0.91	0.45	11.79	4.35	15.42	6.31
D3–ON	D03	Rational Method	5.15	0.84	0.12	11.70	1.09	15.30	1.55
D4–ON	D04	Rational Method	2.80	0.94	0.09	11.79	0.94	15.42	1.35

NOTE: A MINUMUM OF A 5–MIN TIME OF CONCENTRATION WAS USED.

STATE OF TEXAS
BRADLEY MCCONNON
136741
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

HYDRAULIC DATA SHEET

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	26 OF 103

SHEET 1 OF 1

SP–2024–0324D

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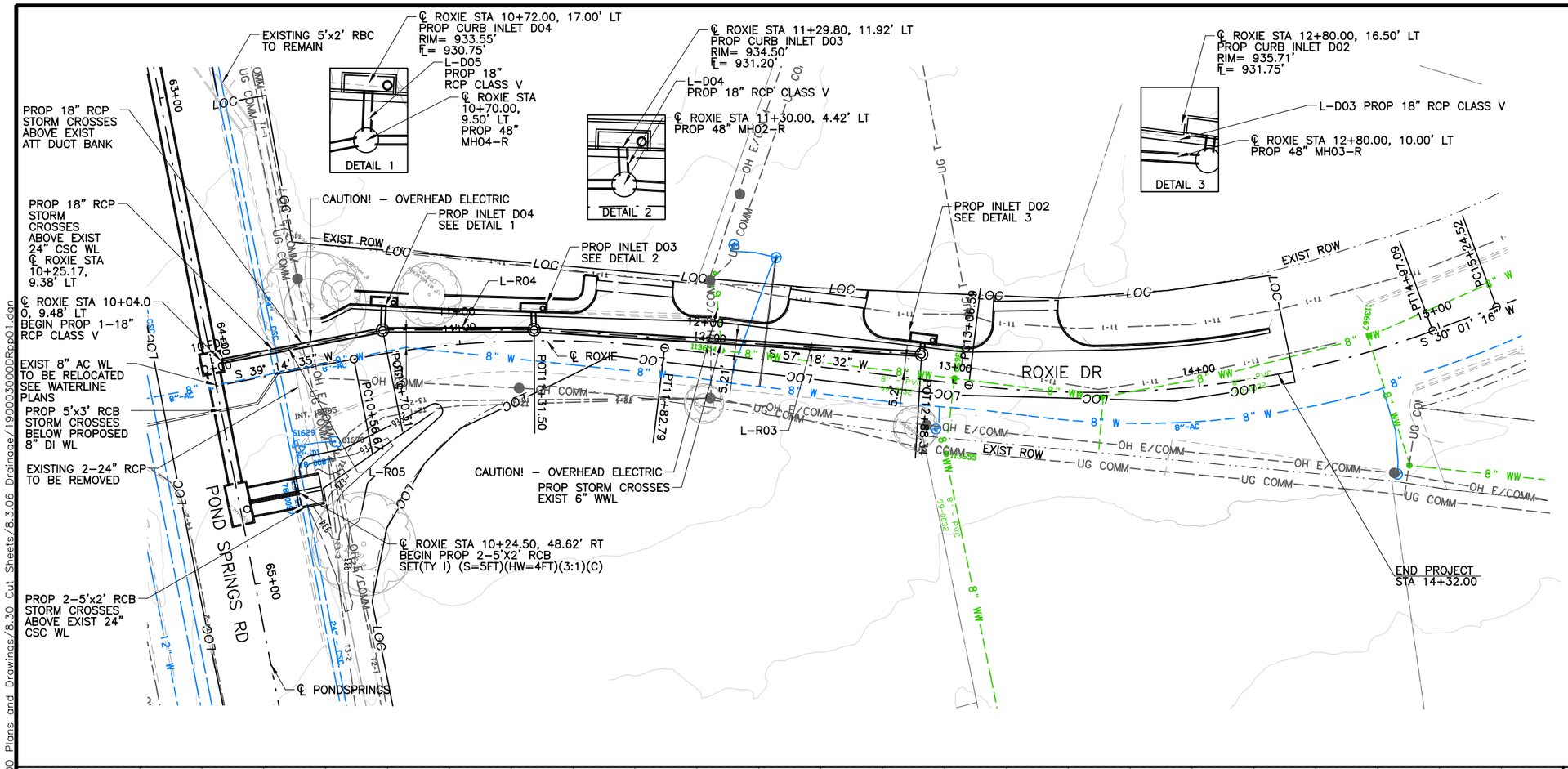


25 12.5 0 25 50
SCALE HORIZ. FEET

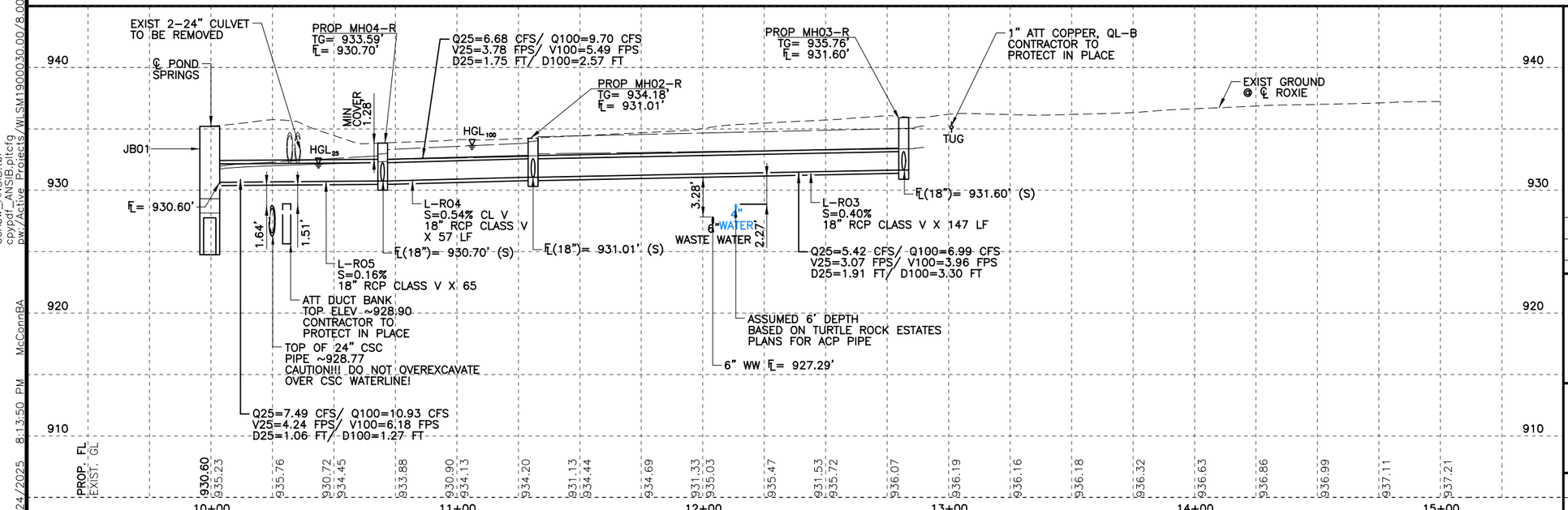
5 2.5 0 5 10
SCALE VERT. FEET

LEGEND

- TRAFFIC DIRECTION
- STORM SEWER
- GRATE INLET
- CURB INLET
- MANHOLE
- EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
- EXISTING & PROPOSED FEMA/CITY 500 YR FLOODPLAIN
- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE

NOTES:

1. PROFILE GEOMETRY SHOWN FOR EXISTING ROADWAYS IS APPROXIMATE AND FOR INFORMATION ONLY.
2. ALL STA/OFF/ELEV OF INLETS ARE TO CENTER OF STRUCTURE AT TOP OF GRATE.
3. TOP OF MANHOLE ELEVATIONS SHOWN ARE FOR INFORMATION PURPOSES ONLY. TOP OF MANHOLES SHALL MATCH FINAL ROADWAY SURFACE.
4. ANY ADDITIONAL RIPRAP OR HEADWALL REPAIRS MUST COMPLY WITH COA STANDARD DETAILS.



STATE OF TEXAS
BRADLEY M. CONNON
103741
LICENSED PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE PLAN AND PROFILE

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	27 OF 103

SHEET 1 OF 4

SP-2024-0324D

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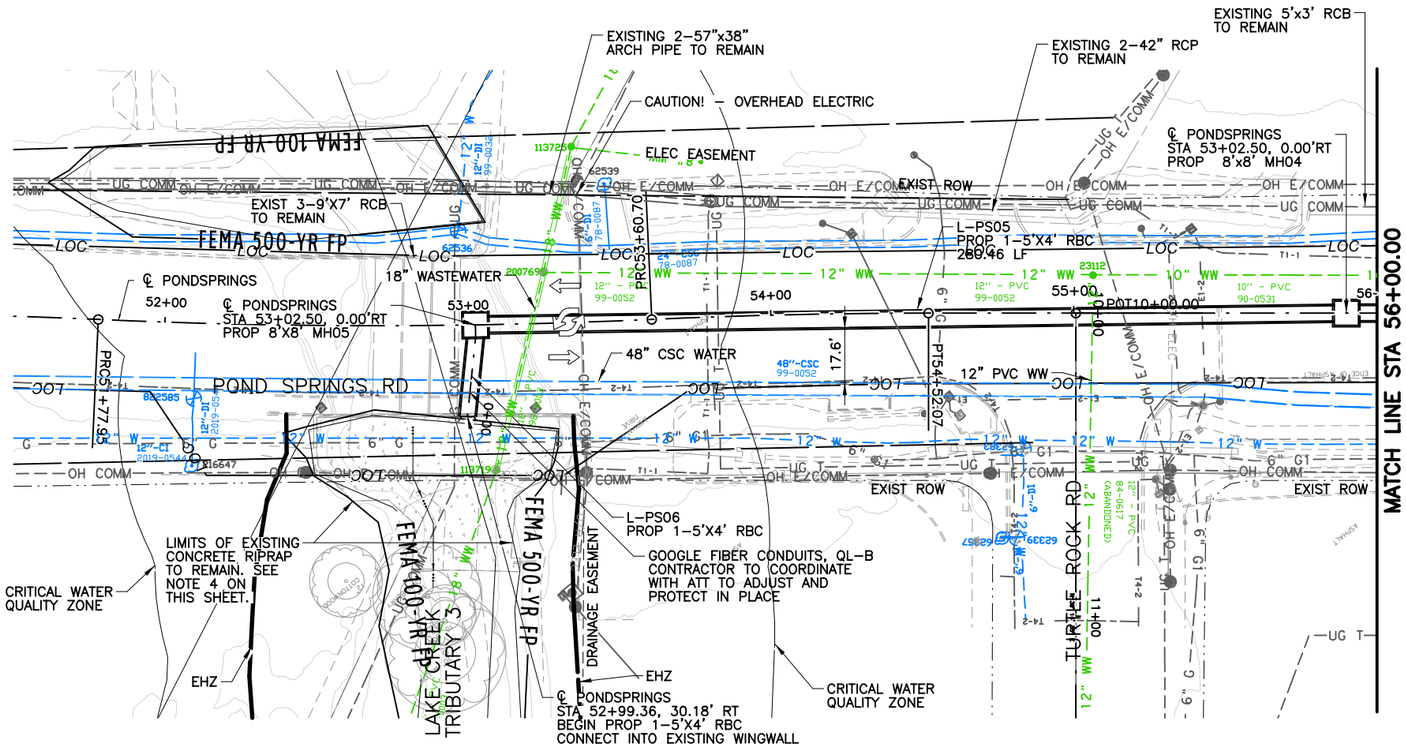

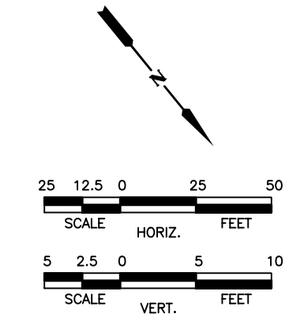

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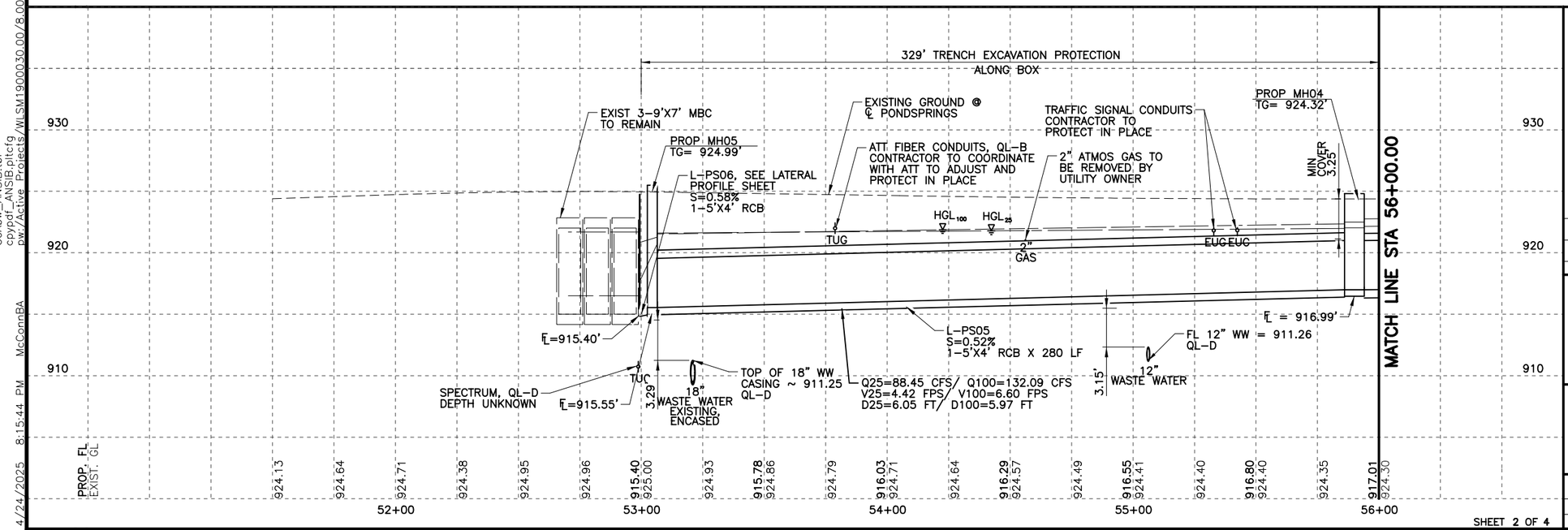

SHEET 2 OF 4

STATE OF TEXAS
BRADLEY MCCONNON
103743
LICENSED PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

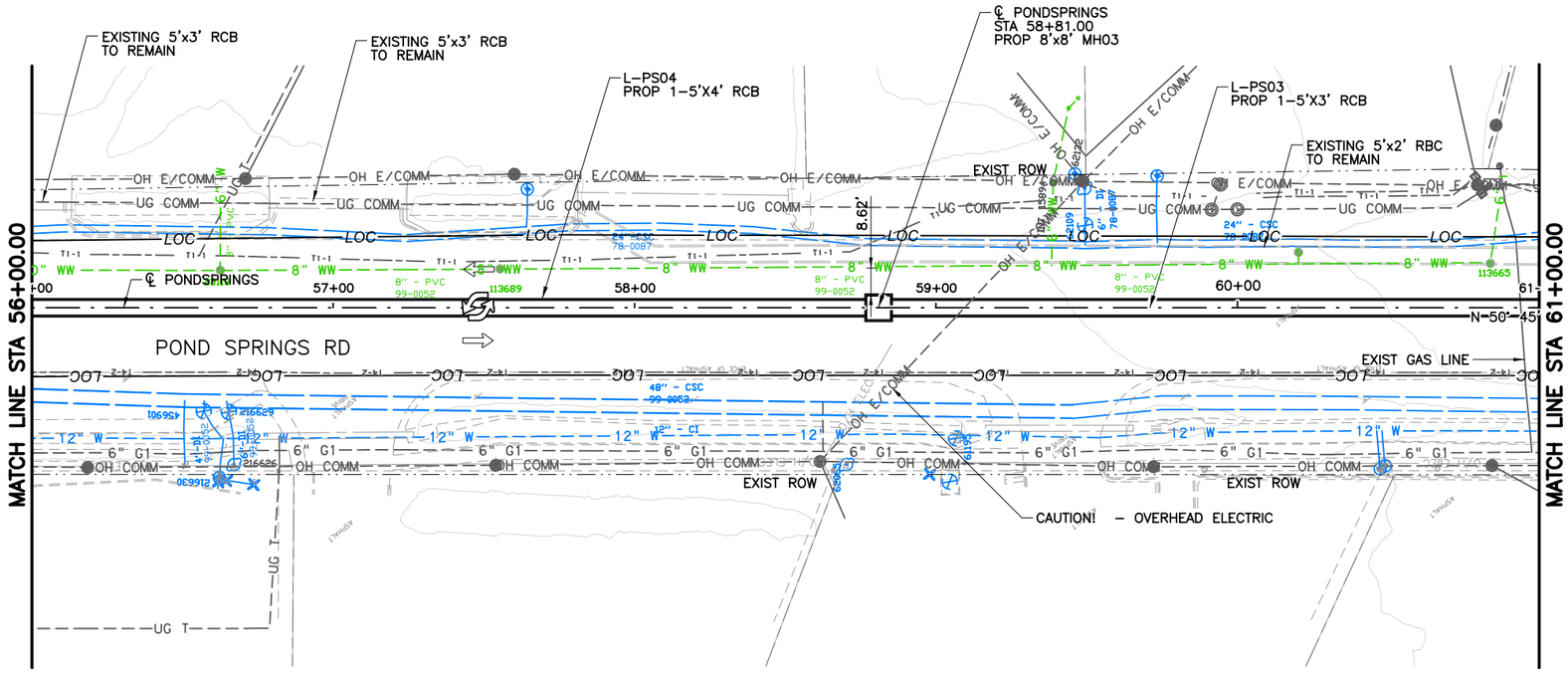
DRAINAGE PLAN AND PROFILE

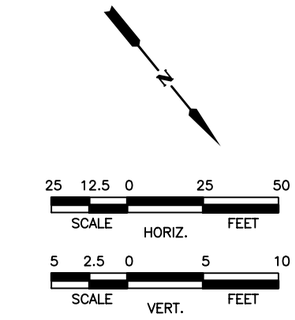
POND SPRINGS STA 51+50 TO STA 56+00

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	28 OF 103

SP–2024–0324D





LEGEND

- TRAFFIC DIRECTION
- STORM SEWER
- GRATE INLET
- CURB INLET
- MANHOLE
- EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
- EXISTING & PROPOSED FEMA/CITY 500 YR FLOODPLAIN
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- CREEK CENTERLINE

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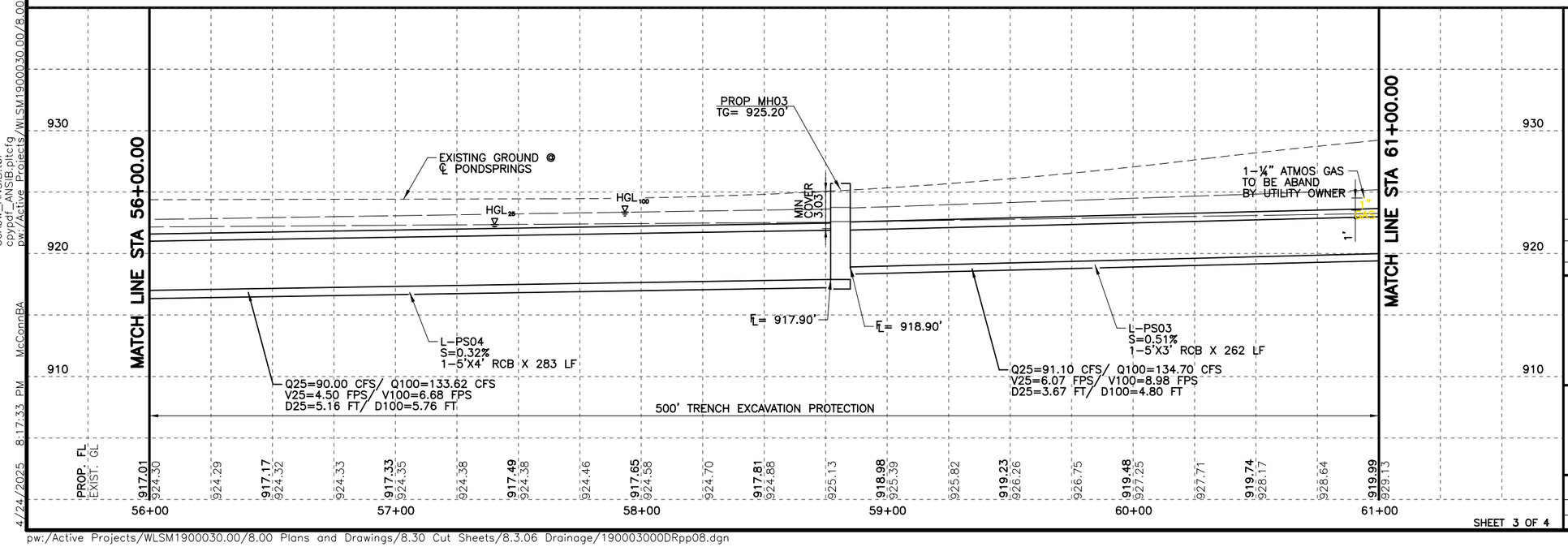

SHEET 3 OF 4

STATE OF TEXAS
BRADLEY MCCONNON
103741
LICENSED PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

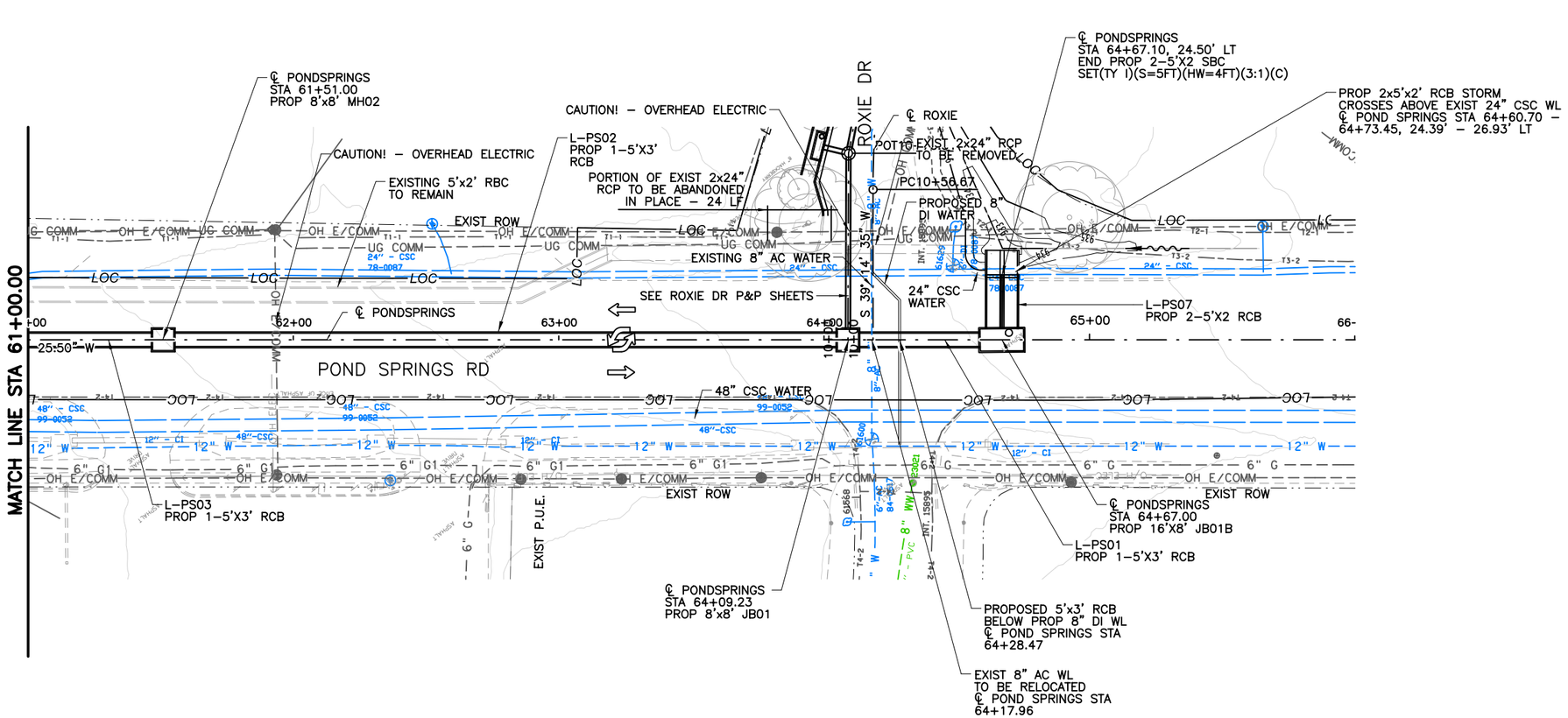
DRAINAGE PLAN AND PROFILE

POND SPRINGS STA 56+00 TO STA 61+00

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	29 OF 103

SP-2024-0324D



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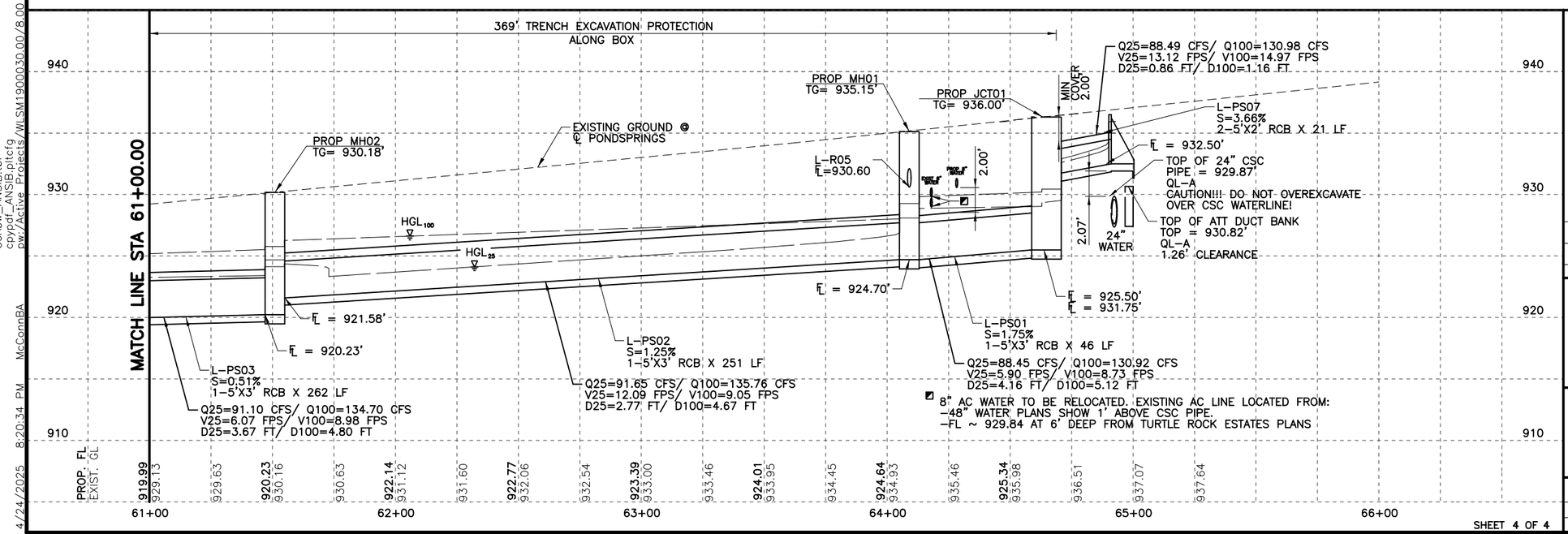

SHEET 4 OF 4

STATE OF TEXAS
BRADLEY MCCONNON
105741
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

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CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

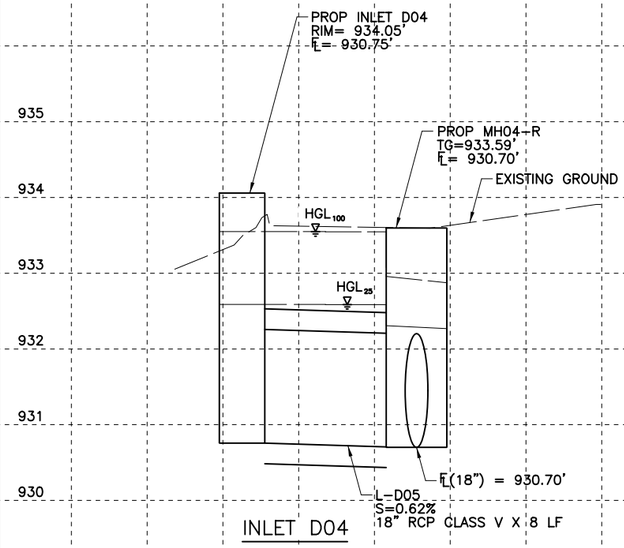
DRAINAGE PLAN AND PROFILE

POND SPRINGS STA 61+00 TO STA 66+00

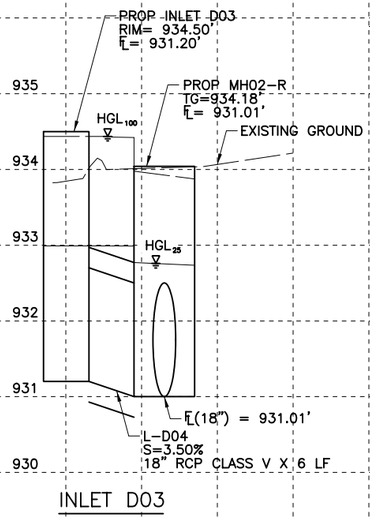
WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	30 OF 103

SP–2024–0324D



INLET D04



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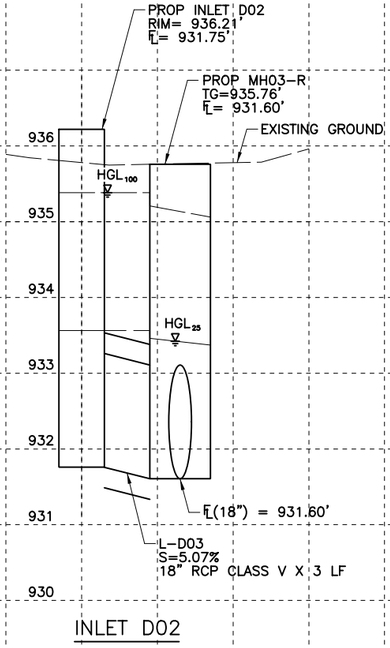

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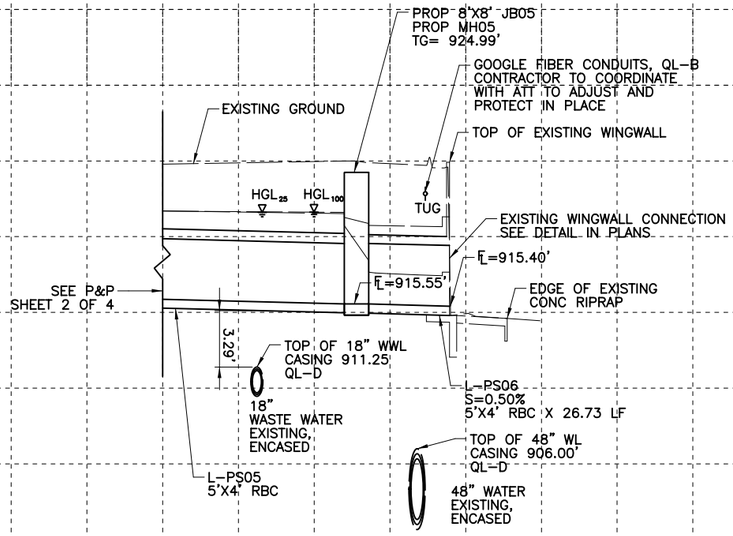

L-PS06

5 2.5 0 5 10
SCALE HORIZ. FEET

1 0.5 0 1 2
SCALE VERT. FEET

25 12.5 0 25 50
SCALE HORIZ. FEET

5 2.5 0 5 10
SCALE VERT. FEET

STATE OF TEXAS
BRADLEY MCCONNON
103741
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE LATERAL PROFILES

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	31 OF 103

SHEET 1 OF 1

SP-2024-0324D

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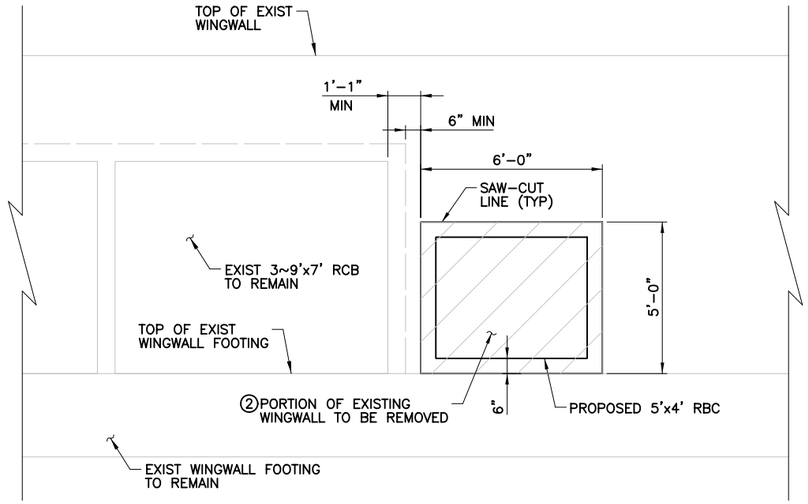
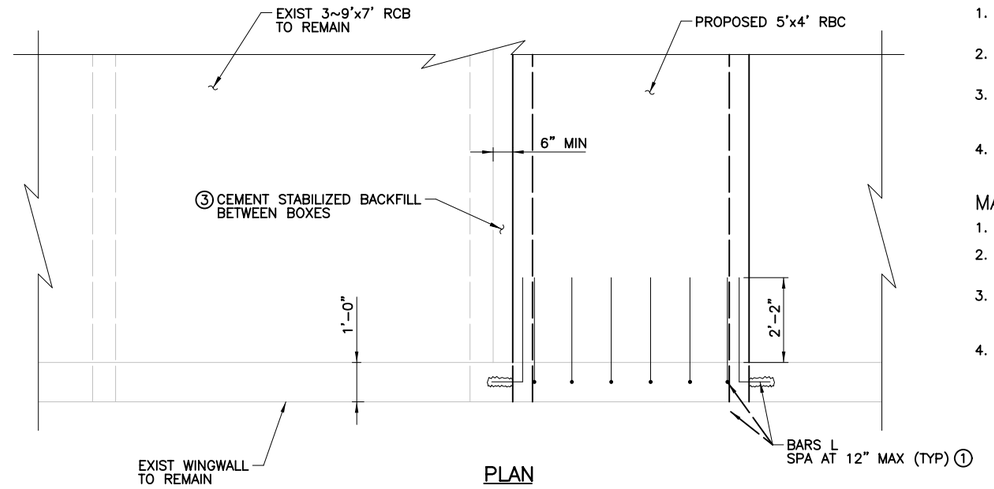


ELEVATION

(NOT SHOWING EXISTING OR PROPOSED REINFORCEMENT FOR CLARITY)



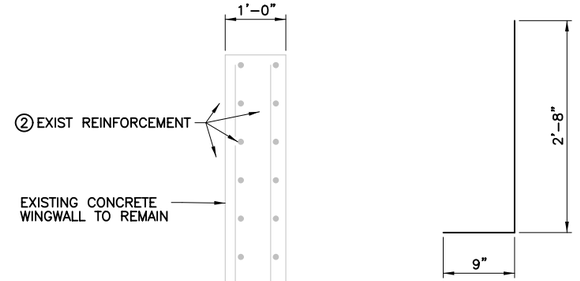
PLAN

GENERAL NOTES:

1. DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION (2020).
2. COVER DIMENSIONS ARE CLEAR DIMENSIONS UNLESS OTHERWISE NOTED.
3. ALL MATERIALS, LABOR, AND INCIDENTALS TO BE CONSIDERED SUBSIDIARY TO BID TXDOT ITEM 462, "CONCRETE BOX CULVERTS AND DRAINS".
4. SEE SCP-MD STANDARD FOR CULVERT DETAILS NOT SHOWN.

MATERIAL NOTES:

1. PROVIDE GRADE 60 REINFORCING STEEL.
2. PROVIDE CLASS C CONCRETE (f'c = 3,600 PSI) FOR THE RCB CLOSURE POUR AND CONNECTION.
3. PROVIDE CEMENT STABILIZED BACKFILL MEETING THE REQUIREMENTS OF TXDOT ITEM 400, "EXCAVATION AND BACKFILL FOR STRUCTURES".
4. ANY PAYMENT FOR ADDITIONAL CONCRETE REQUIRED FOR THE CLOSURE WILL BE CONSIDERED SUBSIDIARY TO PAYMENT FOR THE BOX CULVERT.



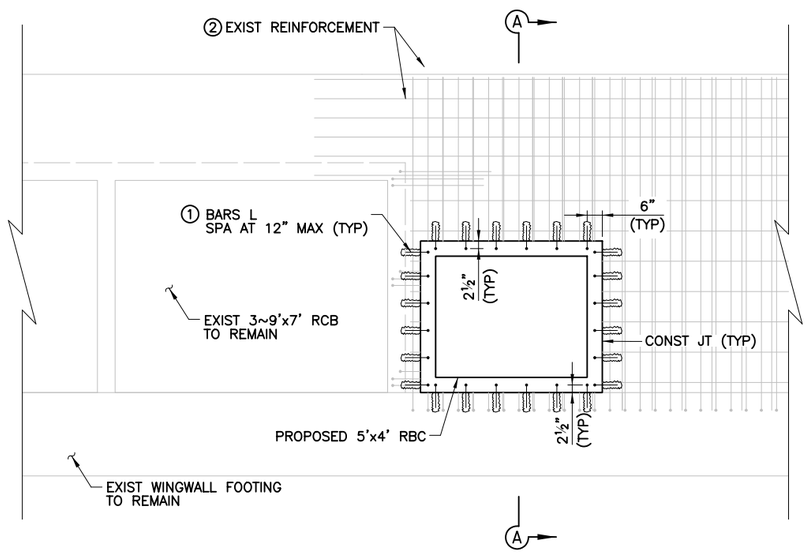
BARS L (#6)

① BARS L TO BE DRILLED AND EPOXIED 6" INTO EXISTING WINGWALL. PROVIDE A TYPE III, CLASS C, D, R, OR F EPOXY PER TXDOT DMS-6100, "EPOXIES AND ADHESIVES". TIE BARS L TO UNDERSIDE OF NEAREST MAT OF REINFORCING.

② CUT ALL EXISTING REINFORCEMENT FLUSH WITH THE SAW-CUT LINE.

③ PAYMENT FOR CEMENT STABILIZED BACKFILL BETWEEN EXISTING AND PROPOSED BOXES IS SUBSIDIARY TO PAYMENT FOR THE BOX CULVERT.

④ DIMENSION TO CENTER OF BAR.



ELEVATION

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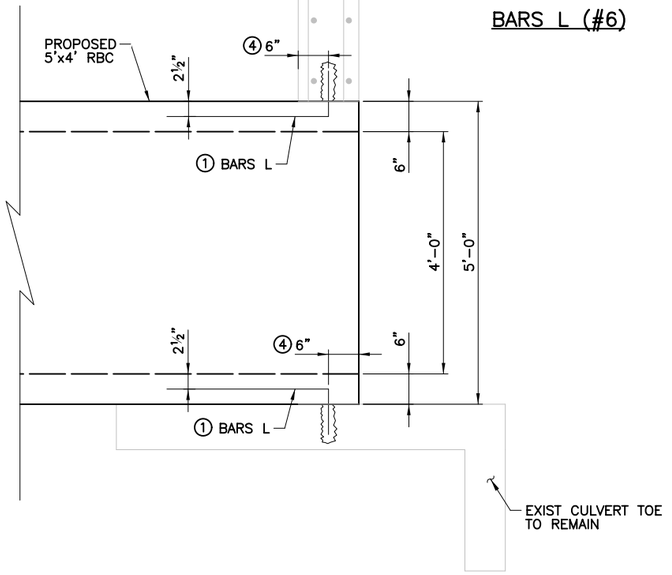

SECTION A-A

STATE OF TEXAS
THOMAS G. ASHCRAFT
81411
REGISTERED
PROFESSIONAL ENGINEER
4/22/2025

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

CULVERT L-PS06 EXISTING PARALLEL WINGWALL CONNECTION DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	KAD	Designed:	KAD	STATE	COUNTY	SHEET NO.
Checked:	TGA	Checked:	TGA	TEXAS	WILLIAMSON	31 OF 102

SP-2024-0324D

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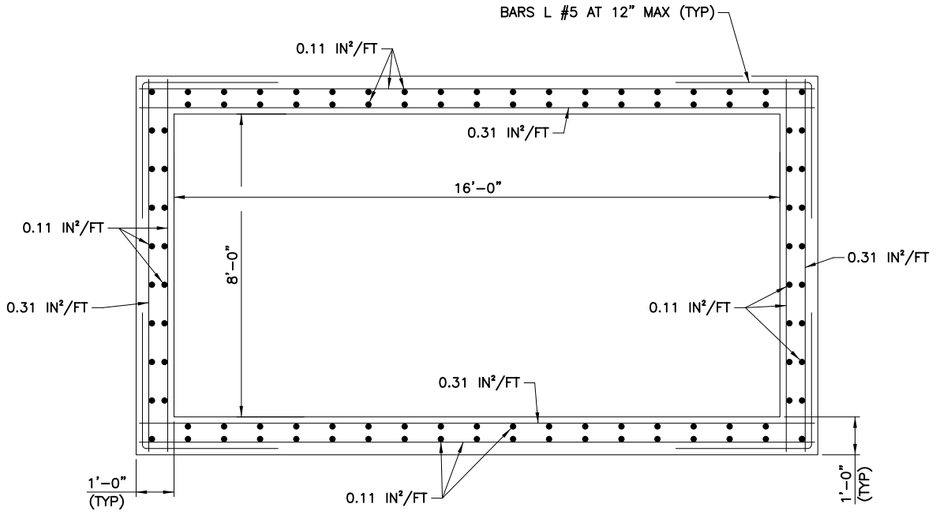
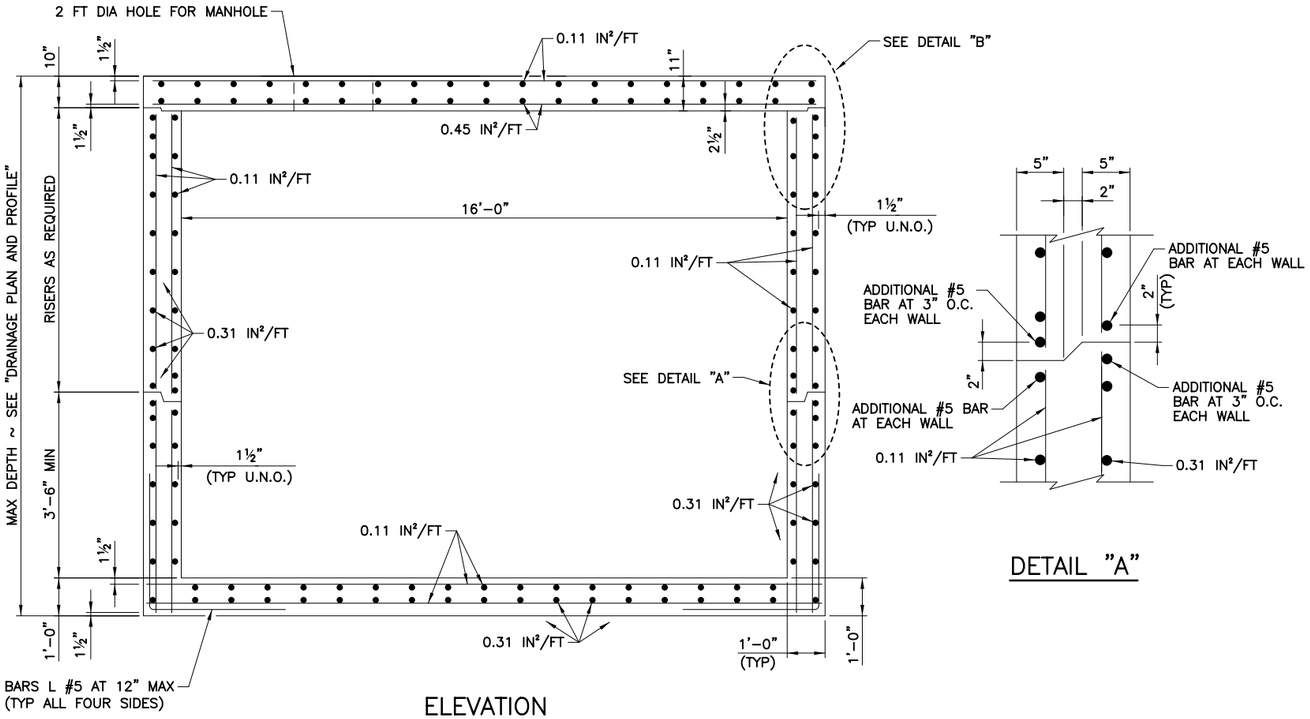
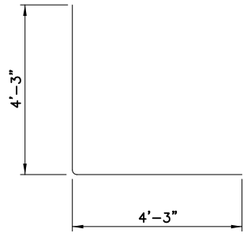


PLAN VIEW



ELEVATION

DETAIL "A"



BARS L (#5)

FABRICATION NOTES:

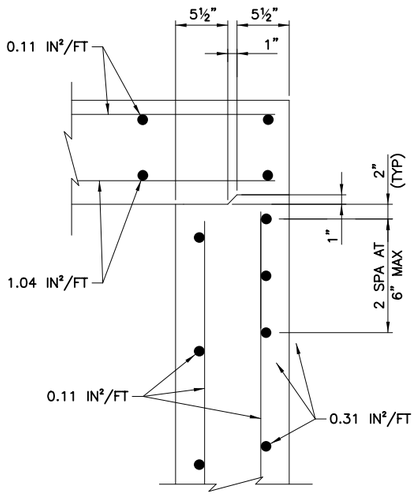
1. PROVIDE CLASS "H" CONCRETE IN ACCORDANCE WITH TXDOT ITEM 421 AND HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5,000 psi.
2. PROVIDE 60 GRADE REINFORCING STEEL OR EQUIVALENT AREA OF WWR.
3. COVER DIMENSIONS ARE CLEAR DIMENSIONS.
4. JOINT IN WALLS SHALL BE A 6" MIN FROM TOP OR BOTOM OF BOX CULVERTS CONNECTING TO JUNCTION BOX.
5. MANUFACTURE BASE AND RISERS TO NEAREST 3" INCREMENT.
6. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.

INSTALLATION NOTES:

1. INVERTS (BENCHING) TO BE PROVIDED BY CONTRACTOR. CONCRETE OR MORTAR USED FOR INVERT IS SUBSIDIARY TO JUNCTION BOX.
2. SEAL TONGUE AND GROOVE JOINTS WITH PREFORMED BULK MASTIC IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. TONGUE AND GROOVE JOINTS MAY BE GROUTED NO MORE THAN 1" BETWEEN EACH SECTION, OR ½ THE JOINT DEPTH.
3. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT MANUFACTURER'S RECOMMENDATION.
4. AT BOX CULVERT CONNECTIONS, CAST HOLE 2" MIN, 4" MAX LARGER THAN OUTSIDE DIMENSIONS OF BOX CULVERT.
5. FOR MANHOLE, PROVIDE 1½" CLEAR TO REINFORCEMENT INTERSECTING OR ADJACENT TO HOLE IN LID.

GENERAL NOTES:

1. PRECAST JUNCTION BOX CONSISTS OF BASE SLAB, BASE UNIT, RISERS (AS REQUIRED) AND BELOW GRADE SLAB.
2. DESIGNED ACCORDING TO ASTM C913.
3. PAYMENT FOR JUNCTION BOX IS PER TXDOT ITEM 465 "JUNCTION BOXES, MANHOLES, AND INLETS" BY TYPE AND SIZE.
4. SEE CITY OF AUSTIN STORM DRAIN MANHOLE DETAIL STANDARDS 503S-2S AND 503S-3S FOR MANHOLE COVER DETAILS.



DETAIL "B"

Feridoon Malekghassemi 2/25/25

STATE OF TEXAS
FERIDOON MALEKGHASSEMI
94488
LICENSED
PROFESSIONAL ENGINEER

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

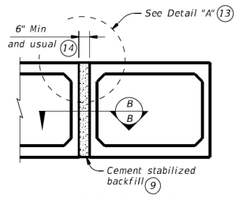
JUNCTION BOX DETAILS
16 FT X 8 FT

WILLIAMSON COUNTY ROAD BOND PROGRAM

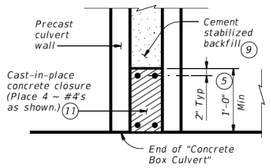
Drawn:	CBR	Designed:	FKM	STATE	COUNTY	SHEET NO.
Checked:	TGA	Checked:	STV	TEXAS	WILLIAMSON	– OF –

SHEET 1 OF 1

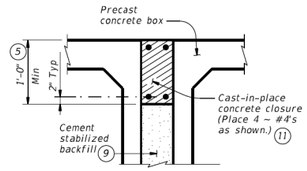
SP-2024-0324D



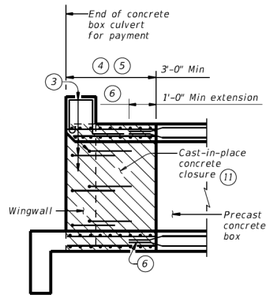
MULTIPLE UNIT PLACEMENT



SECTION B-B

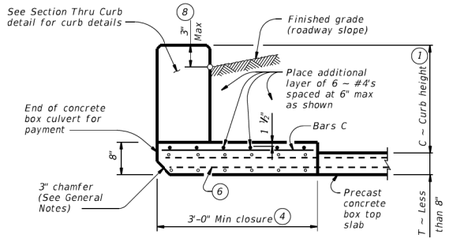


DETAIL "A" (13)

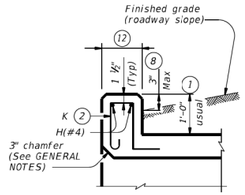


WINGWALL CONNECTION

(Also applies to safety end treatment.)

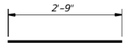


SECTION THRU TOP SLABS LESS THAN 8"

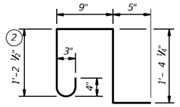


SECTION THRU CURB

QUANTITIES PER FOOT OF CURB (10)	
Reinforcing Steel	4.12 Lb
Concrete	0.037 CY



BARS C (#4)
(Spa = 1'-0" Max)



BARS K (#4)
(Spa = 1'-0" Max)
(Length = 4'-2")

1. 0" Min to 5'-0" Max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail, or curbs taller than 1'-0, refer to the Extended Curb Details (ECD) standard sheet. For structures with T631 or T631LS bridge rail, refer to the Mounting Details for T631 & T631LS Rails (T631-CM) standard sheet. Refer to the Box Culvert Rail Mounting Details (RAC) standard sheet for structures with bridge rail other than T631 or T631LS.
2. For curbs less than 1'-0" high, tilt Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, Bars K may be omitted.
3. Extend curb, wingwall, or safety end treatment reinforcing into concrete closure. Bend or trim, as necessary, any reinforcing that does not fit into closure area.
4. Provide a 3'-0" Min cast-in-place concrete closure. Break back boxes in the field or cast boxes short. Provide bands of reinforcing in the closure that are the same size and spacing as in the precast box section. Provide #4 longitudinal reinforcement spaced at 12 inches Max within the closure. Except where shown otherwise, construct the cast-in-place closure flush with the inside and outside faces of the precast box section.
5. For multiple unit placements, adjust the length of the closure for the interior walls as necessary. Provide a 3'-0" Min cast-in-place closure in the top slab, bottom slab, and exterior wall. See Section B-B detail when interior walls are cast full length.
6. Extend precast box reinforcing a minimum of 1'-0" into concrete closure (Typ).
7. Place bands of reinforcing matching the inside and outside face reinforcing in the gaps of the top and bottom slabs. Place a band matching the outside face reinforcing of the wall in the gaps of the walls (placed in the outside face only). Tack weld the bands to the exposed reinforcing at each point of contact.
8. For vehicle safety, the following requirements must be met:
   - For structures without bridge rail, construct curbs no more than 3" above finished grade.
   - For structures with bridge rail, construct curbs flush with finished grade.

   Reduce curb heights, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
9. Cement stabilized backfill between boxes is considered part of the box culvert for payment.
10. All curb concrete and reinforcing is considered part of the box culvert for payment.
11. Any additional concrete and reinforcing required for the closures will be considered subsidiary to the box culvert for payment.
12. 1'-0" typical. 2'-3" when the Box Culvert Rail Mounting Details (RAC) standard sheet is referred to elsewhere in the plans.
13. For multiple unit placement with overlay, with 1 to 2 course surface treatment, or with the top slab as the final riding surface, provide wall closure as shown in Detail "A".
14. This dimension may be increased with approval of the Engineer to allow the precast boxes to be tunneled or jacked in accordance with Item 476, "Jacking, Boring, or Tunneling Pipe or Box". No payment will be made for any additional material in the gap between adjacent boxes.

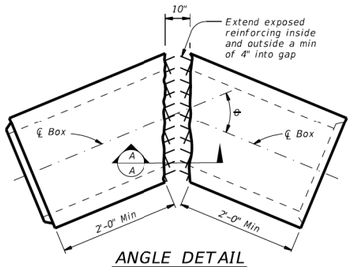
MATERIAL NOTES:

Provide Grade 60 reinforcing steel.
Provide ASTM A1064 welded wire reinforcement.
Provide Class C concrete (f'c = 3,600 psi) for the closures.
Provide cement stabilized backfill meeting the requirements of Item 400, "Excavation and Backfill for Structures."
Any additional concrete required for the closures will be considered subsidiary to the box culvert.

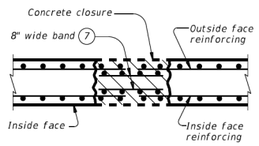
GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.
Refer to the Single Box Culverts Precast (SCP) standard sheets for details and notes not shown.
Chamfer the bottom edge of the top slab closure 3 inches at culvert closure ends.

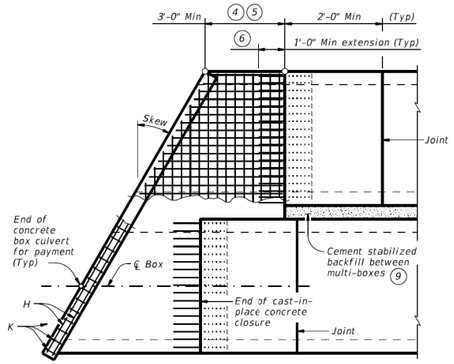
Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing bars dimensions are out-to-out of bars.



ANGLE DETAIL



SECTION A-A



PLAN OF SKEWED ENDS

(Showing multi-box placement.)

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Texas Department of Transportation — Bridge Division Standard

BOX CULVERTS PRECAST MISCELLANEOUS DETAILS

SCP-MD

FILE:	scpmdsts-20.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
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STATE OF TEXAS
BRADLEY MCCONNON
104744
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

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WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
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SHEET 1 OF 1

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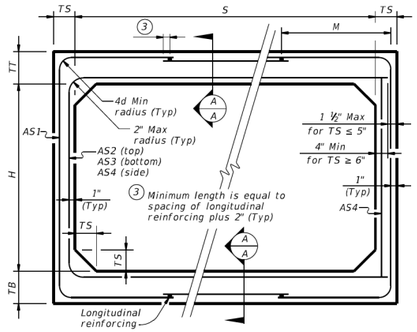
BOX DATA

SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (sq. in. / ft.) (2)							(1) Lift Weight
S (ft.)	H (ft.)	TT (in.)	TB (in.)	TS (in.)	(ft.)	(in.)	AS1	AS2	AS3	AS4	AS5	AS7	AS8	(tons)
5	2	8	7	6	< 2	–	0.19	0.27	0.18	0.14	0.19	0.19	0.17	6.0
5	2	6	6	6	2 < 3	44	0.22	0.20	0.16	0.14	–	–	–	5.1
5	2	6	6	6	3 – 5	44	0.16	0.14	0.14	0.14	–	–	–	5.1
5	2	6	6	6	10	36	0.15	0.14	0.14	0.14	–	–	–	5.1
5	2	6	6	6	15	36	0.20	0.18	0.18	0.14	–	–	–	5.1
5	2	6	6	6	20	36	0.26	0.23	0.24	0.14	–	–	–	5.1
5	2	6	6	6	25	36	0.33	0.29	0.29	0.14	–	–	–	5.1
5	2	6	6	6	30	36	0.39	0.34	0.35	0.14	–	–	–	5.1
5	3	8	7	6	< 2	–	0.19	0.31	0.21	0.14	0.19	0.19	0.17	6.6
5	3	6	6	6	2 < 3	45	0.18	0.24	0.19	0.14	–	–	–	5.7
5	3	6	6	6	3 – 5	36	0.14	0.17	0.16	0.14	–	–	–	5.7
5	3	6	6	6	10	36	0.14	0.16	0.17	0.14	–	–	–	5.7
5	3	6	6	6	15	35	0.16	0.21	0.22	0.14	–	–	–	5.7
5	3	6	6	6	20	35	0.21	0.27	0.28	0.14	–	–	–	5.7
5	3	6	6	6	25	35	0.26	0.34	0.34	0.14	–	–	–	5.7
5	3	6	6	6	30	35	0.31	0.41	0.41	0.14	–	–	–	5.7
5	4	8	7	6	< 2	–	0.19	0.33	0.24	0.14	0.19	0.19	0.17	7.2
5	4	6	6	6	2 < 3	45	0.16	0.27	0.22	0.14	–	–	–	6.3
5	4	6	6	6	3 – 5	45	0.14	0.19	0.18	0.14	–	–	–	6.3
5	4	6	6	6	10	36	0.14	0.18	0.18	0.14	–	–	–	6.3
5	4	6	6	6	15	35	0.14	0.23	0.24	0.14	–	–	–	6.3
5	4	6	6	6	20	35	0.17	0.30	0.31	0.14	–	–	–	6.3
5	4	6	6	6	25	35	0.21	0.37	0.38	0.14	–	–	–	6.3
5	4	6	6	6	30	35	0.25	0.44	0.45	0.14	–	–	–	6.3
5	5	8	7	6	< 2	–	0.19	0.35	0.26	0.14	0.19	0.19	0.17	7.8
5	5	6	6	6	2 < 3	45	0.14	0.29	0.24	0.14	–	–	–	6.9
5	5	6	6	6	3 – 5	45	0.14	0.21	0.20	0.14	–	–	–	6.9
5	5	6	6	6	10	45	0.14	0.19	0.20	0.14	–	–	–	6.9
5	5	6	6	6	15	36	0.14	0.24	0.25	0.14	–	–	–	6.9
5	5	6	6	6	20	35	0.15	0.31	0.32	0.14	–	–	–	6.9
5	5	6	6	6	25	35	0.18	0.38	0.39	0.14	–	–	–	6.9
5	5	6	6	6	30	35	0.21	0.46	0.47	0.14	–	–	–	6.9

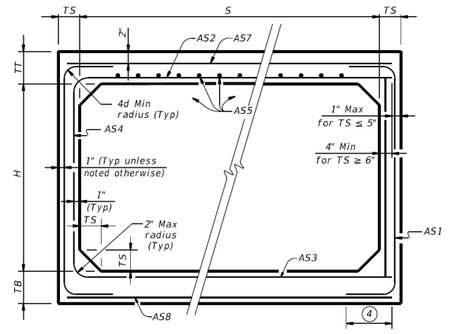
(1) For box length = 8'-0"

(2) AS1 thru AS4, AS7 and AS8 are minimum required areas of reinforcement per linear foot of box length. AS5 is minimum required area of reinforcement per linear foot of box width.



CORNER OPTION "A" CORNER OPTION "B"

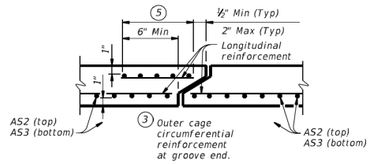
FILL HEIGHT 2 FT AND GREATER



CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT LESS THAN 2 FT

(4) Length is equal to spacing of longitudinal reinforcing plus 2". (10" Min) (Typ)



SECTION A-A

(Showing top and bottom slab joint reinforcement.)

MATERIAL NOTES:
Provide 0.03 sq. in./ft. minimum longitudinal reinforcement at each face in slabs and walls. This minimum requirement may be met by the transverse wires when wire mesh reinforcement is used.
Provide Class H concrete (f'c = 5,000 psi).

GENERAL NOTES:
Designs shown conform to ASTM C1577. Refer to ASTM C1577 for information or details not shown.
See Box Culverts Precast Miscellaneous Details (SCP-MD) standard sheet for details and notes not shown.
In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Submit shop plans for alternate designs in accordance with Item "Precast Concrete Structural Members (Fabrication)".

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Texas Department of Transportation — Bridge Division Standard

SINGLE BOX CULVERTS PRECAST
5'-0" SPAN

SCP-5

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PROFESSIONAL ENGINEER

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

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SHEET 1 OF 1

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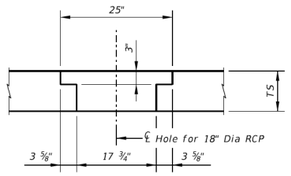
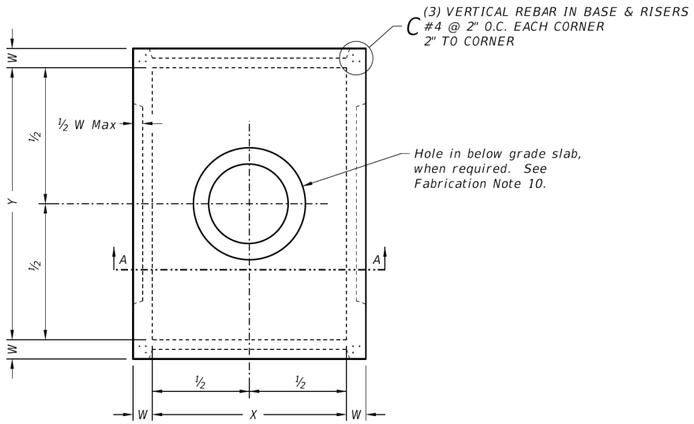
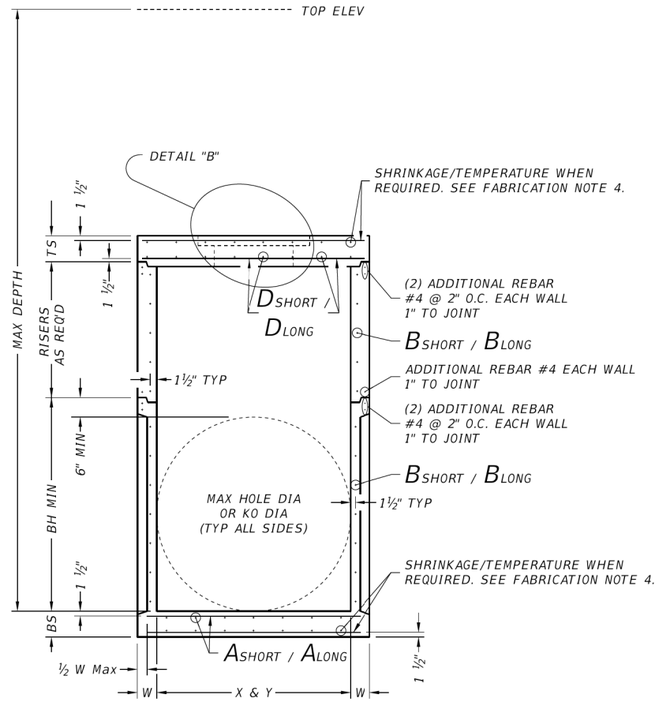


DETAIL "B"



PLAN VIEW



SECTION A-A

FABRICATION NOTES:

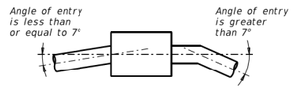
1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
2. Provide Grade 60 reinforcing steel or equivalent area of WWR.
3. Provide typical clear cover of 1 ½" to reinforcing steel at interior or exterior walls.
4. Walls or slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing steel. Provide steel area = 0.11 in²/ft each way.
5. No substitution is allowed for vertical and horizontal #4 bars in corners.
6. Manufacture base and risers to nearest 3" increment.
7. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is ¾".
8. Provide lifting devices in conformance with Manufacturer's recommendations.
9. See sheet PDD for sizes, dimensions, and reinforcing steel not shown.
10. Provide hole in below grade slab only when PJB is installed with inlet type POD.

INSTALLATION NOTES:

1. Inverts (benching) to be provided by Contractor. Concrete or mortar used for invert is subsidiary to junction box.
2. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint depth, whichever is greater.
3. Do not grout rubber gasket joints without Manufacturer's recommendation.
4. For rigid pipe, cut hole in thin wall panel (KO) 4" Max, 2" Min larger than pipe OD.
5. For flexible pipe, consult boot/seal Manufacturer's specification for placement tolerance and hole size. Center pipe in hole and install boot/seal per Manufacturer's specification.

GENERAL NOTES:

1. Precast Junction Box consists of base slab, base unit, risers (as required), and below grade slab. See sheet PDD for sizes.
2. Designed according to ASTM C913.
3. Payment for junction box is per Item 465 "Junction Boxes, Manholes, and Inlets" by type and size.



PIPE CONNECTION DETAIL

Connect pipes within 7° of normal to PJB wall.
If necessary, use pipe elbow or curved approach
alignment to stay within this limit.

Cover dimensions are clear dimensions, unless noted otherwise.

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PRECAST JUNCTION BOX

PJB

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BRADLEY MCCONNON
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SEAL EFFECTIVE UPON
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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
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SHEET 1 OF 1

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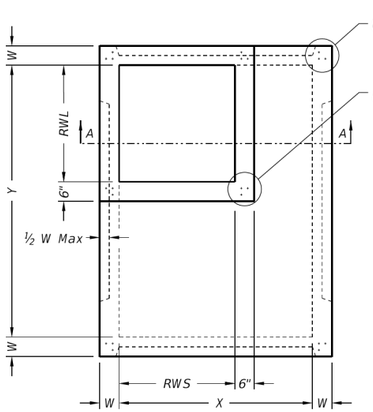
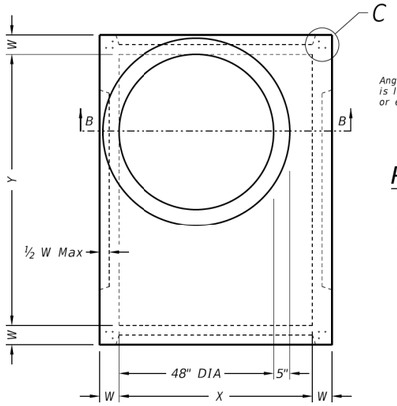


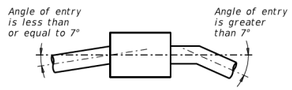
C (3) VERTICAL REBAR IN BASE & RISERS
#4 @ 2" O.C. EACH CORNER
2" TO CORNER

F (3) VERTICAL REBAR IN REDUCED RISERS
#4 @ 2" O.C. EACH CORNER
2" TO CORNER

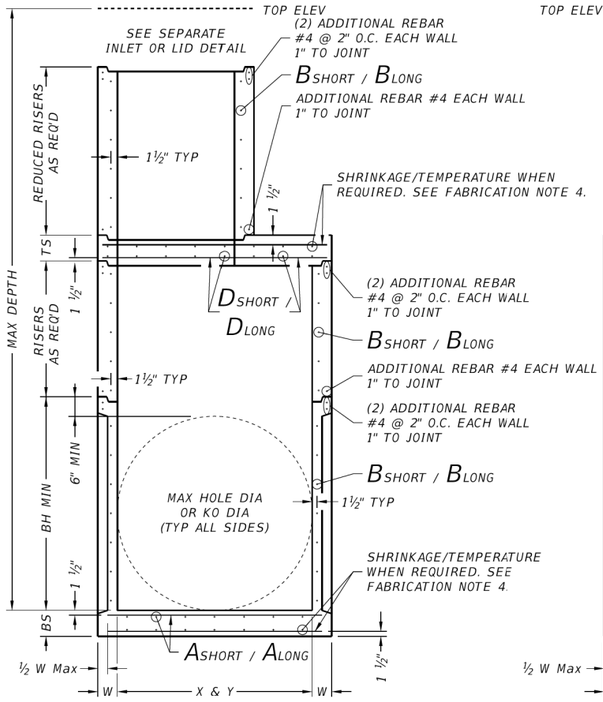
PLAN VIEW "A"
SQUARE REDUCED RISER OPTION



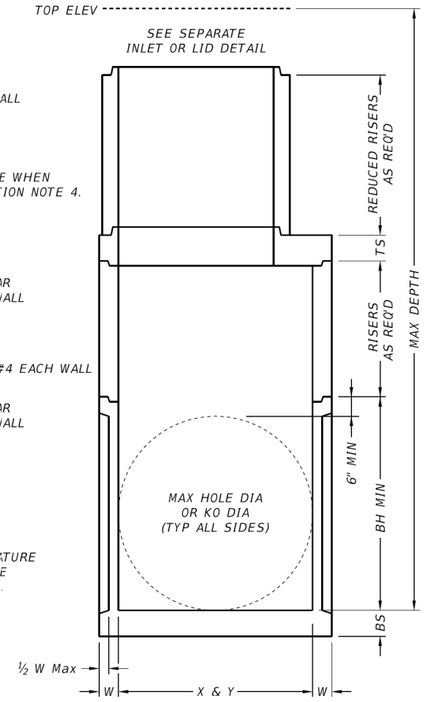
PLAN VIEW "B"
ROUND REDUCED RISER OPTION



PIPE CONNECTION DETAIL
Connect pipes within 7° of normal to PB wall. If necessary, use pipe elbow or curved approach alignment to stay within this limit.



SECTION A-A
SQUARE REDUCED RISER OPTION



SECTION B-B
ROUND REDUCED RISER OPTION

FABRICATION NOTES:
1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
2. Provide Grade 60 reinforcing steel or equivalent area of WWR.
3. Provide typical clear cover of 1 ½" to reinforcing steel at interior or exterior walls.
4. Walls or slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing steel. Provide steel area = 0.11 in²/ft each way.
5. No substitution is allowed for vertical and horizontal #4 bars in corners.
6. Manufacture base and risers to nearest 3" increment.
7. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is ¾".
8. Provide lifting devices in conformance with Manufacturer's recommendations.
9. See sheet PDD for sizes, dimensions, and reinforcing steel not shown.

INSTALLATION NOTES:
1. If required elsewhere. Inverts (benching) to be provided by Contractor. Concrete or mortar used for invert is subsidiary to specified inlet or manhole.
2. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint depth, whichever is greater.
3. Do not grout rubber gasket joints without Manufacturer's recommendation.
4. For rigid pipe, cut hole in thin wall panel (KO) 4" Max, 2" Min larger than pipe OD.
5. For flexible pipe, consult boot/seal Manufacturer's specification for placement tolerance and hole size. Center pipe in hole and install boot/seal per Manufacturer's specification.

GENERAL NOTES:
1. Precast Base consists of base slab, base unit, risers (as required), reducing slab (as required), and reduced risers (as required). See sheet PDD for sizes.
2. Designed according to ASTM C913.
3. Payment for precast base is subsidiary to the specified inlet, per Item 465, "Junction Boxes, Manholes, and Inlets."

Cover dimensions are clear dimensions, unless noted otherwise.

HL93 LOADING

Texas Department of Transportation | Bridge Division Standard

PRECAST BASE

PB

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STATE OF TEXAS
BRADLEY MCCONNON
104744
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	37 OF 103

SHEET 1 OF 1

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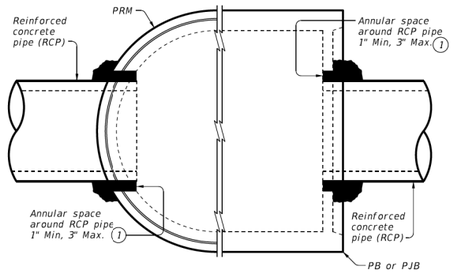
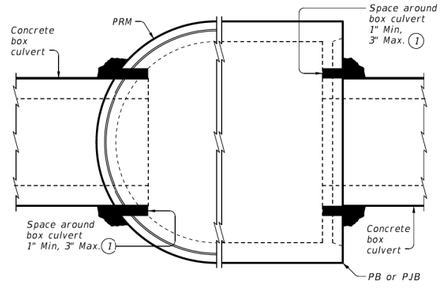


PRECAST ROUND MANHOLE (PRM) WITH THROUGH-HOLE

PRECAST BASE (PB) OR PRECAST JUNCTION BOX (PJB) WITH THIN-WALL KNOCK-OUT

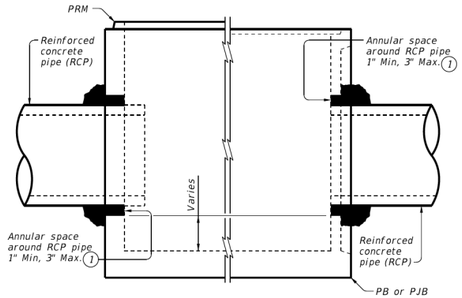
TYPICAL HALF PLAN



PRECAST ROUND MANHOLE (PRM) WITH THROUGH-HOLE

PRECAST BASE (PB) OR PRECAST JUNCTION BOX (PJB) WITH THIN-WALL KNOCK-OUT

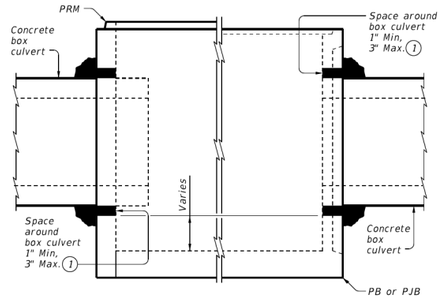
TYPICAL HALF PLAN



PRECAST ROUND MANHOLE (PRM) WITH THROUGH-HOLE

PRECAST BASE (PB) OR PRECAST JUNCTION BOX (PJB) WITH THIN-WALL KNOCK-OUT

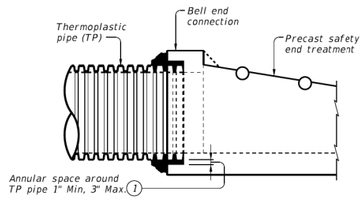
TYPICAL HALF ELEVATION



PRECAST ROUND MANHOLE (PRM) WITH THROUGH-HOLE

PRECAST BASE (PB) OR PRECAST JUNCTION BOX (PJB) WITH THIN-WALL KNOCK-OUT

TYPICAL HALF ELEVATION



TYPICAL PARTIAL ELEVATION OF PRECAST SAFETY END TREATMENTS

Showing square PSET for parallel drainage, cross drainage shown similar.

(1) Completely fill the void between the precast structure and the connecting pipe or box with cementitious grouts and mortars in accordance with DMS-4675 "Cementitious Grouts and Mortars for Miscellaneous Application".

CONSTRUCTION NOTES:

Do not grout rubber gasket joints without Manufacturer's recommendations.

Do not use bricks, masonry blocks, native stone, or similar materials in conjunction with grouted connections when filling void spaces around pipes or box culverts.

MATERIAL NOTES:

Provide grouted connections in accordance with DMS-4675 "Cementitious Grouts and Mortars for Miscellaneous Application".

GENERAL NOTES:

See applicable standards for notes and details not shown:
- Precast Base (PB)
- Precast Junction Box (PJB)
- Precast Round Manhole (PRM)
- Precast Safety End Treatments C/D Square (PSET-SC)
- Precast Safety End Treatments P/D Square (PSET-SP)

Provide Concrete Box Culverts in accordance with Item 462 "Concrete Box Culverts and Drains".

Provide Reinforced Concrete Pipe (RCP) in accordance with Item 464 "Reinforced Concrete Pipe".

Provide Thermoplastic Pipe (TP) in accordance with Special Specification Thermoplastic Pipe.

Payment for grouted connections is considered subsidiary to other bid items.

Texas Department of Transportation | Bridge Division Standard

PIPE AND BOX GROUTED CONNECTIONS FOR PRECAST STRUCTURES

PBGC

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	DIST	COUNTY		SHEET NO.	

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BRADLEY MCCONNON
103741
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PROFESSIONAL ENGINEER

04/24/2025

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NO.	REVISION	BY	DATE

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TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	38 OF 103

SHEET 1 OF 1

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	Size	MAX DEPTH = 15 ft. to top of BASE SLAB										MAX DEPTH = 25 ft. to top of BASE SLAB										Min Height (See Gen Note 3)	Max HOLE DIA (See Fab Note 2)	Max KO DIA (See Fab Note 2)
		Base Slab			Base Unit or Riser Walls			Below Grade Slab (w/PJB) Reducing Slab (w/PB)				Base Slab			Base Unit or Riser Walls			Below Grade Slab (w/PJB) Reducing Slab (w/PB)						
		Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Reduced Riser Size	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Reduced Riser Size	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness			
	X x Y	Ashort	Along	BS	Bshort	Blong	W	RWSxRWL or ID	Dshort	Dlong	TS	Ashort	Along	BS	Bshort	Blong	W	RWSxRWL or ID	Dshort	Dlong	TS	BH MIN	HOLE DIA	KO DIA
	ft.	in^2/ft	in^2/ft	in.	in^2/ft	in^2/ft	in.	ft. **	in^2/ft	in^2/ft	in.	in^2/ft	in^2/ft	in.	in^2/ft	in^2/ft	in.	ft. **	in^2/ft	in^2/ft	in.	ft.	in.	in.
Precast Junction Box (PJB)	3x3	0.23	0.23	6	0.19	0.19	6	N/A	0.37	0.37	9	0.29	0.29	6	0.24	0.24	6	N/A	0.37	0.37	9	3.5	36	36
	4x4	0.29	0.29	6	0.24	0.24	6	N/A	0.41	0.41	9	0.47	0.47	6	0.38	0.38	6	N/A	0.41	0.41	9	4.5	48	48
	3x5	0.29	0.18	6	0.19	0.35	6	N/A	0.48	0.48	9	0.39	0.18	6	0.23	0.59	6	N/A	0.48	0.48	9	3.5	36/60	36/60
	4x5	0.36	0.18	6	0.22	0.34	6	N/A	0.42	0.42	9	0.53	0.26	6	0.39	0.59	6	N/A	0.42	0.42	9	4.5	48/60	48/60
	5x5	0.36	0.36	6	0.34	0.34	6	N/A	0.43	0.43	9	0.62	0.62	6	0.59	0.59	6	N/A	0.43	0.43	9	5.5	60	60
	5x6	0.27	0.27	9	0.34	0.45	6	N/A	0.48	0.48	9	0.47	0.45	9	0.38	0.54	8	N/A	0.48	0.48	9	5.5	60/72	60/72
	6x6	0.27	0.27	9	0.45	0.45	6	N/A	0.56	0.56	9	0.52	0.52	9	0.54	0.54	8	N/A	0.56	0.56	9	6.5	72	72
	8x8	0.46	0.46	9	0.51	0.51	8	N/A	0.45	0.45	12	0.87	0.87	9	0.59	0.59	10	N/A	0.45	0.45	12	8.5	96	72
Precast Base (PB)	3x3	0.23	0.23	6	0.19	0.19	6	N/A	N/A	N/A	N/A	0.29	0.29	6	0.24	0.24	6	N/A	N/A	N/A	N/A	3.5	36	36
	4x4	0.29	0.29	6	0.24	0.24	6	N/A	N/A	N/A	N/A	0.47	0.47	6	0.38	0.38	6	N/A	N/A	N/A	N/A	4.5	48	48
	3x5	0.29	0.18	6	0.19	0.35	6	3x3	0.30	0.34	9	0.39	0.18	6	0.23	0.59	6	3x3	0.40	0.40	9	3.5	36/60	36/60
	4x5	0.36	0.18	6	0.22	0.34	6	3x3	0.30	0.30	9	0.53	0.26	6	0.39	0.59	6	3x3	0.46	0.37	9	4.5	48/60	48/60
	4x5	0.36	0.18	6	0.22	0.34	6	4x4	0.30	0.30	9	0.53	0.26	6	0.39	0.59	6	4x4	0.39	0.39	9	4.5	48/60	48/60
	4x5	0.36	0.18	6	0.22	0.34	6	48"	0.39	0.39	9	0.53	0.26	6	0.39	0.59	6	48"	0.47	0.47	9	4.5	48/60	48/60
	4x5	0.36	0.18	6	0.22	0.34	6	3x5	0.33	0.40	9	0.53	0.26	6	0.39	0.59	6	3x5	0.48	0.48	9	4.5	48/60	48/60
	5x5	0.36	0.36	6	0.34	0.34	6	3x3	0.34	0.34	9	0.62	0.62	6	0.59	0.59	6	3x3	0.53	0.53	9	5.5	60	60
	5x5	0.36	0.36	6	0.34	0.34	6	4x4	0.36	0.36	9	0.62	0.62	6	0.59	0.59	6	4x4	0.64	0.64	9	5.5	60	60
	5x5	0.38	0.38	6	0.34	0.34	6	48"	0.36	0.36	9	0.62	0.62	6	0.59	0.59	6	48"	0.64	0.64	9	5.5	60	60
	5x5	0.36	0.36	6	0.34	0.34	6	3x5	0.34	0.40	9	0.62	0.62	6	0.59	0.59	6	3x5	0.53	0.53	9	5.5	60	60
	5x6	0.31	0.31	9	0.34	0.45	6	3x3	0.34	0.34	9	0.47	0.45	9	0.38	0.54	8	3x3	0.61	0.50	9	5.5	60/72	60/72
	5x6	0.27	0.27	9	0.34	0.45	6	4x4	0.36	0.45	9	0.47	0.45	9	0.38	0.54	8	4x4	0.74	0.57	9	5.5	60/72	60/72
	5x6	0.29	0.29	9	0.34	0.45	6	48"	0.36	0.45	9	0.47	0.45	9	0.38	0.54	8	48"	0.74	0.57	9	5.5	60/72	60/72
	5x6	0.29	0.29	9	0.34	0.45	6	3x5	0.45	0.45	9	0.47	0.45	9	0.38	0.54	8	3x5	0.61	0.61	9	5.5	60/72	60/72
	6x6	0.29	0.29	9	0.45	0.45	6	3x3	0.41	0.41	9	0.52	0.52	9	0.54	0.54	8	3x3	0.74	0.74	9	6.5	72	72
	6x6	0.27	0.27	9	0.45	0.45	6	4x4	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	4x4	0.87	0.87	9	6.5	72	72
	6x6	0.29	0.29	9	0.45	0.45	6	48"	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	48"	0.87	0.87	9	6.5	72	72
	6x6	0.29	0.29	9	0.45	0.45	6	3x5	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	3x5	0.87	0.87	9	6.5	72	72
	8x8	0.52	0.52	9	0.51	0.51	8	3x3	0.61	0.61	12	0.91	0.91	9	0.70	0.70	10	3x3	0.85	0.85	12	8.5	96	72
	8x8	0.52	0.52	9	0.51	0.51	8	4x4	0.70	0.70	12	0.87	0.87	9	0.70	0.70	10	4x4	1.01	1.01	12	8.5	96	72
	8x8	0.52	0.52	9	0.51	0.51	8	48"	0.70	0.70	12	0.87	0.87	9	0.70	0.70	10	48"	1.01	1.01	12	8.5	96	72
	8x8	0.52	0.52	9	0.51	0.51	8	3x5	0.70	0.95	12	0.87	0.87	9	0.70	0.70	10	3x5	1.01	1.01	12	8.5	96	72

** Unless otherwise indicated.

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FABRICATION NOTES:
1. Maximum spacing of reinforcement is 8".
2. At manufacturer's option, provide cast or cored holes or thin wall panels (KO) to the maximum diameter shown for each. When no penetration is required, it is acceptable to provide a wall with no sectional reduction.

GENERAL NOTES:
1. Precast Junction Box consists of base slab, base unit, risers (as required), and below grade slab. See sheet PJB for details.
2. Precast Base consists of base slab, base unit, risers (as required), reducing slab (as required), and reduced risers (as required). See sheet PB for details.
3. Min Height shown is for stock base units. Use stock base units whenever practical. Smaller height base units can be used in special installation circumstances, when noted elsewhere in the plans. Absolute minimum height of base units is 2'-6".

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DESIGN DATA FOR PRECAST BASE AND JUNCTION BOX

PDD

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STATE OF TEXAS
BRADLEY MCCONNON
105741
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PROFESSIONAL ENGINEER
04/24/2025

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

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ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
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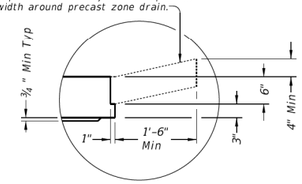
FILE:

Style	Size (X x Y)	W (2)	A x B (nominal)	Short Span Reinf Steel Area	Long Span Reinf Steel Area
SL	3'x3'	6"	n/a	0.37 in²/ft	0.37 in²/ft
RH,RC,RG,SH,S1,FG	3'x3'	6"	3'x3' or 32" Dia	0.37 in²/ft	0.37 in²/ft
SFG	3'x3'	6"	3'x3'	0.32 in²/ft	0.32 in²/ft
SL	4'x4'	6"	n/a	0.34 in²/ft	0.34 in²/ft
RH,RC,RG,SH,S1,FG	4'x4'	6"	3'x3' or 32" Dia	0.41 in²/ft	0.41 in²/ft
SH,S1,FG	4'x4'	6"	4'x4'	0.41 in²/ft	0.41 in²/ft
SFG	4'x4'	6"	4'x4'	0.32 in²/ft	0.32 in²/ft
SL	3'x5'	6"	n/a	0.39 in²/ft	0.39 in²/ft
RH,RC,RG,SH,S1,FG	3'x5'	6"	3'x3' or 32" Dia	0.48 in²/ft	0.48 in²/ft
SH,S1,FG	3'x5'	6"	3'x5'	0.48 in²/ft	0.48 in²/ft
SFG	3'x5'	6"	3'x5'	0.32 in²/ft	0.32 in²/ft
SL	4'x5'	6"	n/a	0.42 in²/ft	0.42 in²/ft
RH,RC,RG,SH,S1,FG	4'x5'	6"	3'x3' or 32" Dia	0.42 in²/ft	0.42 in²/ft
SH,S1,FG	4'x5'	6"	4'x4'	0.63 in²/ft	0.63 in²/ft
SH,S1,FG	4'x5'	6"	3'x5'	0.66 in²/ft	0.66 in²/ft
SL	5'x5'	6"	n/a	0.36 in²/ft	0.36 in²/ft
RH,RC,RG,SH,S1,FG	5'x5'	6"	3'x3' or 32" Dia	0.43 in²/ft	0.43 in²/ft
SH,S1,FG	5'x5'	6"	4'x4'	0.63 in²/ft	0.63 in²/ft
SH,S1,FG	5'x5'	6"	3'x5'	0.63 in²/ft	0.63 in²/ft
SL	5'x6'	6"/8"	n/a	0.48 in²/ft	0.48 in²/ft
RH,RC,RG,SH,S1,FG	5'x6'	6"/8"	3'x3' or 32" Dia	0.48 in²/ft	0.48 in²/ft
SH,S1,FG	5'x6'	6"/8"	4'x4'	0.60 in²/ft	0.60 in²/ft
SH,S1,FG	5'x6'	6"/8"	3'x5'	0.60 in²/ft	0.60 in²/ft
SL	6'x6'	6"/8"	n/a	0.43 in²/ft	0.43 in²/ft
RH,RC,RG,SH,S1,FG	6'x6'	6"/8"	3'x3' or 32" Dia	0.56 in²/ft	0.56 in²/ft
SH,S1,FG	6'x6'	6"/8"	4'x4'	0.56 in²/ft	0.56 in²/ft
SH,S1,FG	6'x6'	6"/8"	3'x5'	0.59 in²/ft	0.59 in²/ft
SL	8'x8'	8"/10"	n/a	0.45 in²/ft	0.45 in²/ft
RH,RC,RG,SH,S1,FG	8'x8'	8"/10"	3'x3' or 32" Dia	0.45 in²/ft	0.45 in²/ft
SH,S1,FG	8'x8'	8"/10"	4'x4'	0.45 in²/ft	0.45 in²/ft
SH,S1,FG	8'x8'	8"/10"	3'x5'	0.45 in²/ft	0.45 in²/ft

(2) See sheet PDD for corresponding wall thickness (W) of base unit or riser.

Construct cast-in-place reinforced concrete apron, when shown elsewhere in plans. Use Class "A" concrete. Apron is subsidiary to PSL. Apron is 1'-6" Min width around precast zone drain.



DETAIL "A"

(Reinforcing not shown for clarity)

When an apron is to be cast around PSL, use detail above to create an apron ledge on all 4 sides.

FABRICATION NOTES:

1. Locate penetration (Style 'RH'), ring and cover (Style 'RC'), ring and grate (Style 'RG'), and frame and grate (Style 'FG') in a corner. Only one penetration is allowed per slab lid.
2. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
3. Provide Grade 60 reinforcing steel or equivalent area of WWR.
4. Provide clear cover of ¾" to reinforcing from lower outside shoulder of slab for structural reinforcement, and 2" from top of slab for shrinkage and temperature reinforcement. Place short span reinforcing closest to surface.
5. Slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing. Provide steel area = 0.11 in²/ft each way.
6. No substitution is allowed for diagonal #4 bars around openings.
7. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is ¾".
8. Provide lifting devices in conformance with Manufacturer's recommendations.

INSTALLATION NOTES:

1. Precast slab lids are intended for direct traffic and may be placed in roadway.
2. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint depth, whichever is greater.
3. Do not grout rubber gasket joints without Manufacturer's recommendation.
4. Initial installation of grade adjustment rings for Styles 'RH' and 'SH' is limited to 1'-0" Max as shown.
5. Grade adjustment rings for Styles 'RH' and 'SH' may be increased to 2'-0" Max when future construction affects final grade of structure. Make adjustments greater than 2'-0" with additional risers. Adjustments can be made up to Max depth shown on sheet PDD. Structure must be evaluated if Max depth will be exceeded.
6. Orient long dimension of grate slots perpendicular to traffic, unless noted otherwise on plans

GENERAL NOTES:

1. Designed according to ASTM C913.
2. Payment for lid is per Item 465, "Junction Boxes, Manholes, and Inlets" by type, style, size, and opening size (when applicable).

Cover dimensions are clear dimensions, unless noted otherwise.

HL93 LOADING SHEET 2 OF 2

Texas Department of Transportation — Bridge Division Standard

PRECAST SLAB LID

PSL

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REVISIONS	DIST	COUNTY		SHEET NO.

STATE OF TEXAS
BRADLEY MCCONNON
103743
LICENSED PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	41 OF 103

SHEET 2 OF 2

SP-2024-0324D

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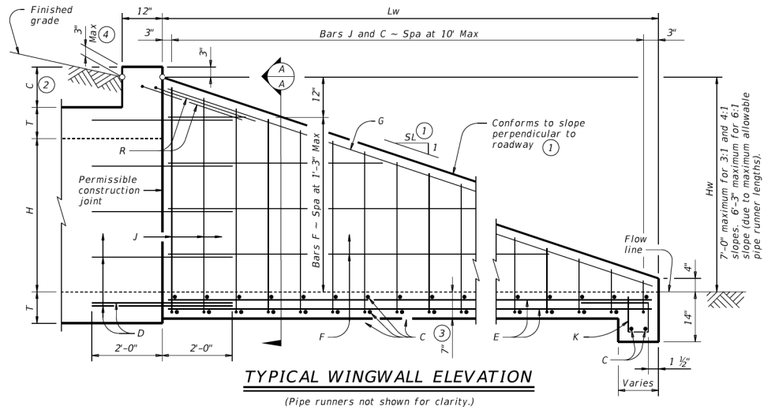
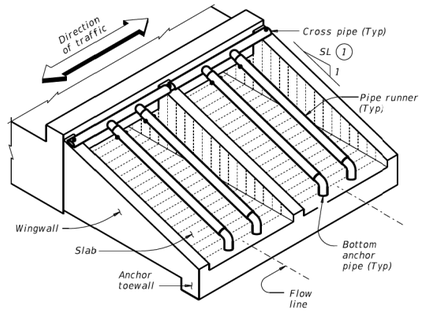


TYPICAL WINGWALL ELEVATION

(Pipe runners not shown for clarity.)



ISOMETRIC VIEW OF TYPICAL INSTALLATION

WING DIMENSION CALCULATIONS:

$Hw = H + T + C - 0.250'$

$Lw = (Hw - 0.333') (SL)$

For cast-in-place culverts:

$Atw = (N) (S) + (N + 1) (U)$

For precast culverts:

$Atw = (N) (2U + S) + (N - 1) (0.500')$

Total Wingwall Area (SF)
$= (0.5) (Hw + 0.333') (Lw) (N + 1)$

Total Concrete Volume (CY)
$= [(\text{Wingwall Area}) (0.583') +$
$(Lw) (Atw) (0.583') +$
$(Atw) (1.167') (1.167' - 0.583')] \div (27)$

PIPE RUNNER DIMENSION CALCULATIONS:

Pipe Runner Length
$= (Lw) (K1) - (1.917')$

Total Reinforcing (Lb)
$= (1.55) (Lw) (Atw) +$
$(4.43) (Atw) +$
$(K2) (Hw) (N + 1) (\sqrt{Lw})$

C = Height of curb above top of top slab (feet)
Hw = Height of wingwall (feet)
K = Constant value for use in formulas

Slope SL:1	K1	K2
3:1	~ 1.054 ~	7.45
4:1	~ 1.031 ~	8.49
6:1	~ 1.014 ~	10.30

Atw = Anchor toewall length (feet)
Lw = Length of wingwall (feet)
N = Number of culvert barrels
SL:1 = Side slope ratio (horizontal : 1 vertical)

See applicable box culvert standard for H, S, T, and U values.

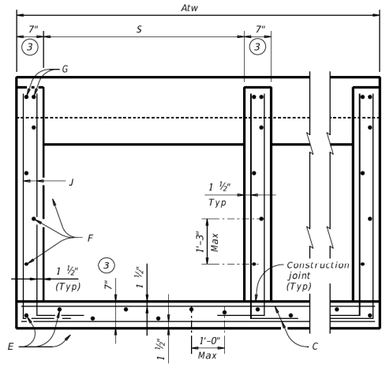
MATERIAL NOTES:

Provide Grade 60 reinforcing steel.
Provide galvanized reinforcing steel if required elsewhere in the plans.
Adjust reinforcing as necessary to provide a minimum clear cover of 1 ½".
Provide Class "C" concrete ($f'c = 3,600$ psi).
Provide pipe runners, cross pipes, and anchor pipes meeting the requirements of ASTM A53 (Type E or S, Gr B), ASTM A500 Gr B, or API 5LX52.
Provide ASTM A307 bolts.
Galvanize all steel components, except the concrete reinforcing, unless required elsewhere in the plans, after fabrication.
Repair galvanizing damaged during transport or construction in accordance with the Item 445, "Galvanizing."

GENERAL NOTES:

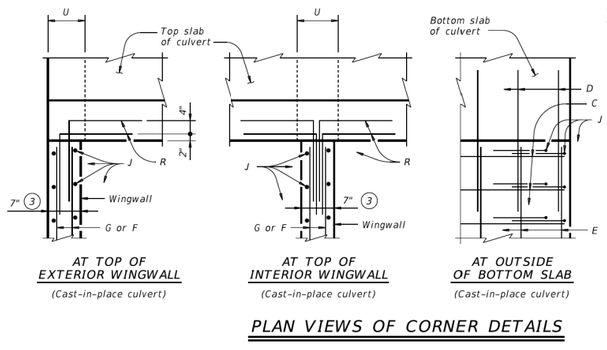
Designed according to AASHTO LRFD Bridge Design Specifications.
The safety end treatments shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the pipe runners.
Pipe runners are designed for a traversing load of 1,800 pounds at yield as recommended by Research Report 280-1, "Safety Treatment of Roadside Cross-Drainage Structures", Texas Transportation Institute, March 1981.
The quantities for pipe runners, reinforcing steel, and concrete resulting from the formulas given herein are for Contractor's information only.
See the Box Culvert Supplement (BCS) standard sheet for additional dimensions and information.
Alternate design drawings bearing the seal of a professional engineer will be acceptable for precast construction of the safety end treatments.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing dimensions are out-to-out of bars.



SECTION A-A

(Showing typical wingwall and wing slab reinforcing. Pipe runners not shown for clarity.)



AT TOP OF EXTERIOR WINGWALL
(Cast-in-place culvert)

AT TOP OF INTERIOR WINGWALL
(Cast-in-place culvert)

AT OUTSIDE OF BOTTOM SLAB
(Cast-in-place culvert)

AT INTERIOR WINGWALL
(Precast culvert)

PLAN VIEWS OF CORNER DETAILS

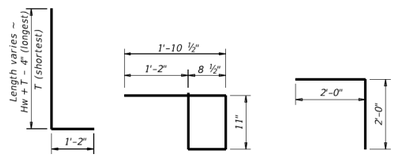


TABLE OF REINFORCING BAR SIZES AND SPACING		
Bar	Size	Spacing
C	#4	10" Max
D	#4	Match F and E
E	#4	1'-0" Max
F	#4	1'-3" Max
G	#6	As shown
J	#4	10" Max
K	#4	1'-0" Max
R	#4	As shown

1. Recommended values of slope are: 3:1, 4:1, and 6:1. Provide 3:1 or flatter slope.
2. 0" Min to 5'-0" Max. Estimated curb heights are shown elsewhere in the plans. For structures without railing and curbs taller than 1'-0", refer to the Extended Curb Details (ECD) standard sheet.
3. Wingwall and slab thicknesses may be the same as the adjacent culvert wall and slab thicknesses (7" minimum). If thicknesses greater than the minimum (7") are used, no changes will be made in quantities and no additional compensation will be allowed.
4. For vehicle safety, reduce curb height, if necessary, to provide a maximum 3" projection. No changes will be made in quantities and no additional compensation will be allowed for this work.
5. For culverts with C = 0", the precast culvert reinforcing may extend 1'-0" minimum into wingwall. Wingwall Bars D and R may be omitted. Otherwise, refer to the Wingwall Connection detail on the Box Culvert Precast Miscellaneous Details (SCP-MD) standard sheet.

SHEET 1 OF 2

Texas Department of Transportation | Bridge Division Standard

SAFETY END TREATMENT
FOR 0° SKEW BOX CULVERTS (MAXIMUM Hw = 7'-0") TYPE I ~ CROSS DRAINAGE
SETB-CD

FILE: CD-SETBCD-20.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: TxDOT
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REVISIONS	DIST	COUNTY		SHEET NO.

STATE OF TEXAS
BRADLEY MCCONNON
103741
LICENSED PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	42 OF 103

SHEET 1 OF 2

SP-2024-0324D

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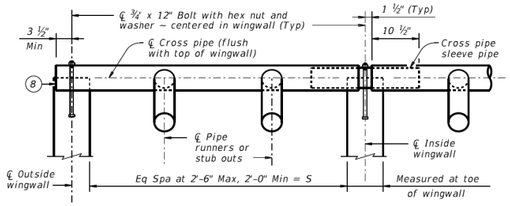
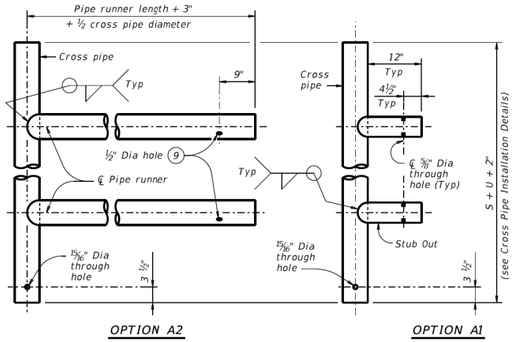
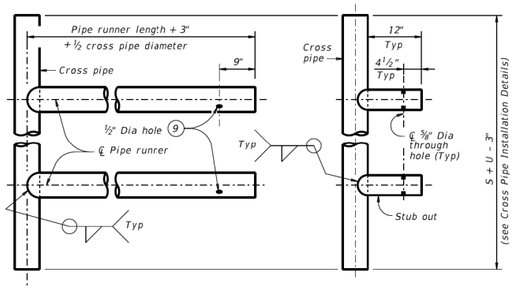


NOTE: At Contractor's option, make the cross pipe continuous across the inside wingwalls. If option is selected, omit the sleeve pipe and make a $^{15}/_{16}$" diameter through hole in the cross pipe to accept the anchor bolt at the centerline of each inside wingwall.

CROSS PIPE INSTALLATION DETAILS

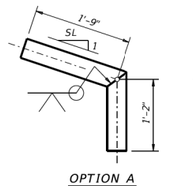


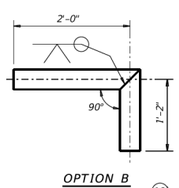
FOR USE IN OUTSIDE CULVERT BAY



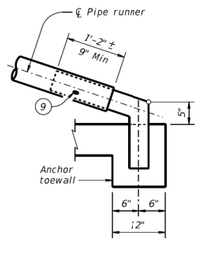
FOR USE IN INSIDE CULVERT BAY

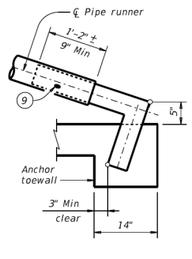
CROSS PIPE AND CONNECTIONS DETAILS





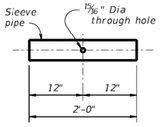
BOTTOM ANCHOR PIPE DETAILS (10)



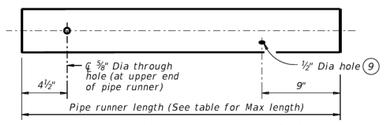


BOTTOM ANCHOR TOEWALL DETAILS

(Wingwall not shown for clarity.)



CROSS PIPE SLEEVE PIPE DETAILS



NOTE: The separate pipe runner shown is required when Cross Pipe Connection Option A1 is used.

PIPE RUNNER DETAILS

(6) Cross pipe is the same size as the pipe runner. Cross pipe stub out is the same size as the anchor pipe.

(7) Note that actual slope of safety pipe runner may vary slightly from side slope.

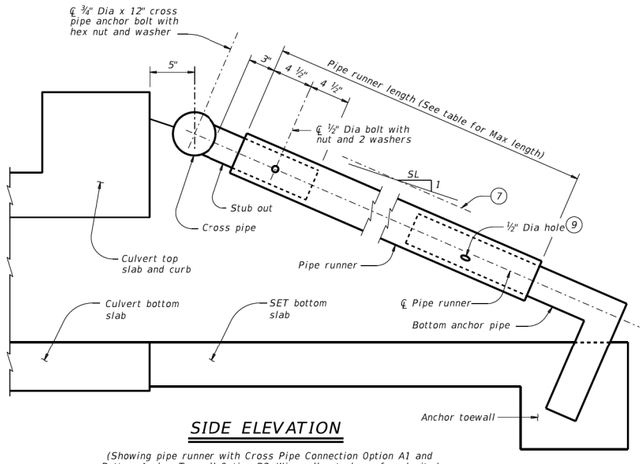
(8) Take care to ensure that riprap concrete does not flow into the cross pipe so as to permit disassembly of the bolted connection to allow cleanout access.

(9) After installation, inspect the 1#2" hole to ensure that the lap of the safety pipe runner with the bottom anchor pipe is adequate.

(10) At fabricator's option, a heat bend to a smooth 5" radius or a manufactured elbow (of the same material as the runner) may be substituted for the mitered and welded joint in the bottom anchor pipe.

MAXIMUM PIPE RUNNER LENGTHS AND (6) REQUIRED PIPE RUNNER AND ANCHOR PIPE SIZES

Maximum Pipe Runner Length	Required Pipe Runner Size			Required Anchor Pipe Size		
	Pipe Size	Pipe O.D.	Pipe I.D.	Pipe Size	Pipe O.D.	Pipe I.D.
10'- 0"	3" STD	3.500"	3.068"	2" STD	2.375"	2.067"
19'- 8"	4" STD	4.500"	4.026"	3" STD	3.500"	3.068"
34'- 2"	5" STD	5.563"	5.047"	4" STD	4.500"	4.026"



SIDE ELEVATION

(Showing pipe runner with Cross Pipe Connection Option A1 and Bottom Anchor Toewall Option B2. Wingwall not shown for clarity.)

SHEET 2 OF 2

Texas Department of Transportation | Bridge Division Standard

SAFETY END TREATMENT
FOR 0° SKEW BOX CULVERTS
(MAXIMUM Hw = 7'-0")
TYPE I ~ CROSS DRAINAGE
SETB-CD

FILE: CD-SETBCD-20.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: TxDOT
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REVISIONS	DIST	COUNTY		SHEET NO.

STATE OF TEXAS
BRADLEY MCCONNON
103474
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

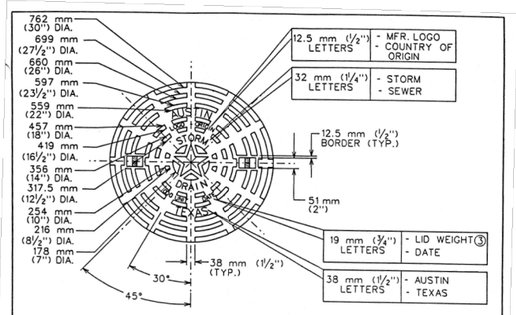
ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	43 OF 103

SHEET 2 OF 2

SP-2024-0324D

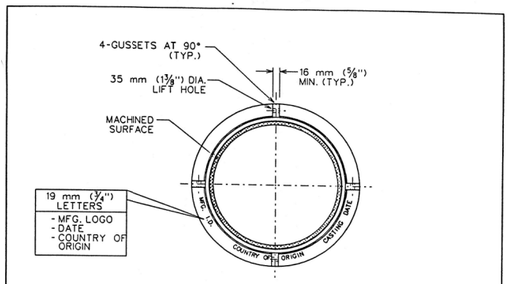


CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
George E. Oswald 1/4/00
ADOPTED

STORM DRAIN MANHOLE
RING AND 813 mm (32") COVER

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

STANDARD NO. 503S-4S
1 OF 3



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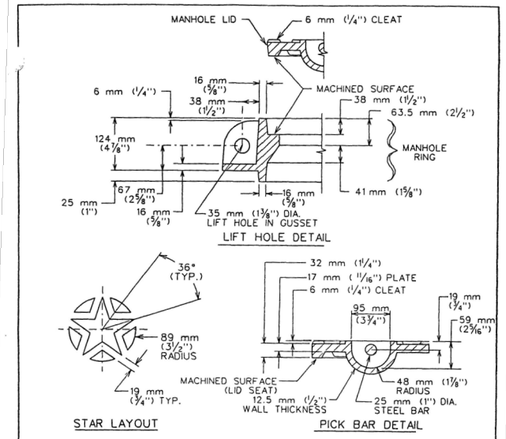
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
George E. Oswald 1/4/00
ADOPTED

STORM DRAIN MANHOLE
RING AND 813 mm (32") COVER

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

STANDARD NO. 503S-4S
2 OF 3



NOTES:
① ALL CORNERS AND EDGES SHALL HAVE A 1.5 mm (1/16") MINIMUM RADIUS.
② LIDS SHALL BE CAST WITH TWO 25 mm (1") DIA. STEEL PICK BARS.
③ LID WEIGHTS SHALL BE 935 N (210 LBS.) FOR CAST IRON OR 779 N (175 LBS.) FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF LID.
④ MANUFACTURER SHALL PROVIDE INDEPENDENT TESTING LABORATORY REPORT ON 25,000 POUND PROOF LOAD TEST CONDUCTED ACCORDING TO AASHTO M-306.
⑤ FILLETS SHALL BE 6 mm (¼") RADIUS UNLESS OTHERWISE SPECIFIED.
⑥ MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.

CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
George E. Oswald 2/14/00
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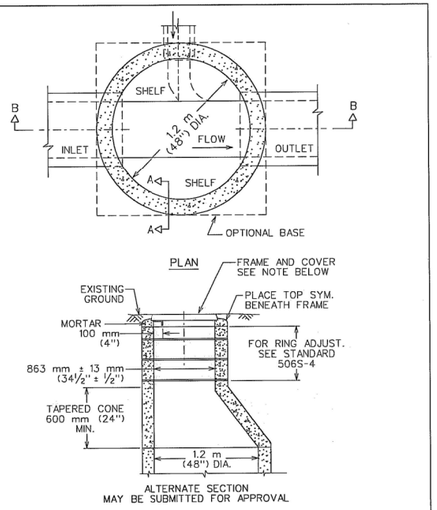
STORM DRAIN MANHOLE
RING AND 813 mm (32") COVER

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

STANDARD NO. 503S-4S
3 OF 3



NOTE:
USE 800 mm (32") FRAME AND COVER.

MINIMUM MANHOLE DIA.	MINIMUM PIPE SIZE
1.2 m (4')	450 TO 600 mm (18 TO 24")
1.5 m (5')	750 mm TO 1.1 m (30 TO 42")
1.8 m (6')	1.2 TO 1.4 m (48 TO 54")
2.1 m (7')	1.5 TO 1.7 m (60 TO 66")

SIZE TO BE USED IS DEPENDENT ON DRAIN ANGLES.

CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
George E. Oswald 2/14/00
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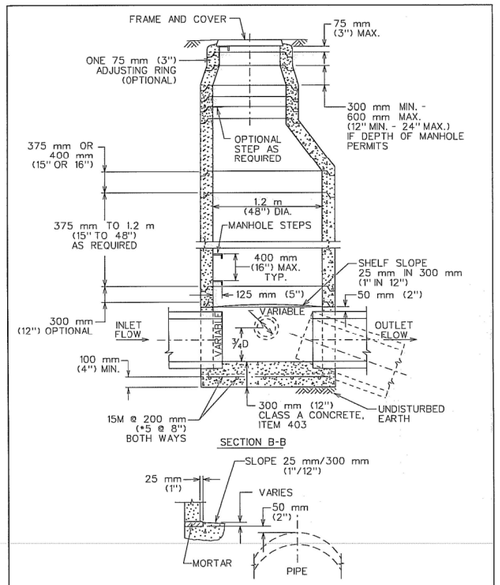
PRE-CAST CONCRETE
STORM DRAIN MANHOLE

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

STANDARD NO. 506S-3
1 OF 2



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DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
George E. Oswald 2/14/00
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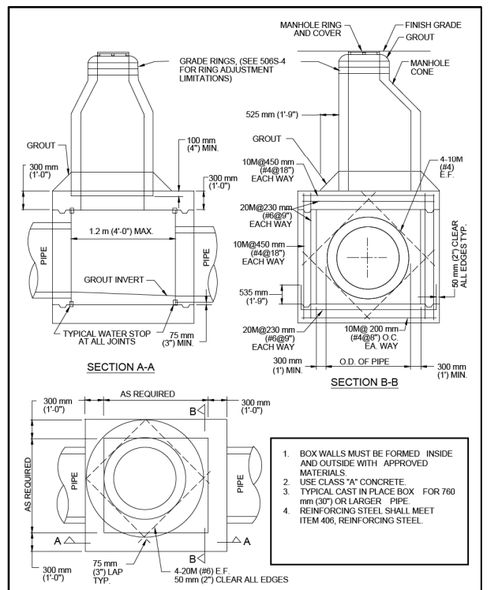
PRE-CAST CONCRETE
STORM DRAIN MANHOLE

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

STANDARD NO. 506S-3
2 OF 2



1. BOX WALLS MUST BE FORMED INSIDE AND OUTSIDE WITH APPROVED MATERIALS.
2. USE CLASS "A" CONCRETE.
3. TYPICAL CAST IN PLACE BOX FOR 760 mm (30") OR LARGER PIPE.
4. REINFORCING STEEL SHALL MEET ITEM 406, REINFORCING STEEL.

CITY OF AUSTIN
WATER AND WASTEWATER UTILITY
RECORD COPY SIGNED BY KATHI F. PAYNE 2/17/00
ADOPTED

TYPICAL BOX MANHOLE
760 mm (30") & LARGER PIPE

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

STANDARD NO. 506S-5
1 OF 1

STATE OF TEXAS
BRADLEY MCCONNON
94744
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	44 OF 103

SHEET 1 OF 5

SP-2024-0324D

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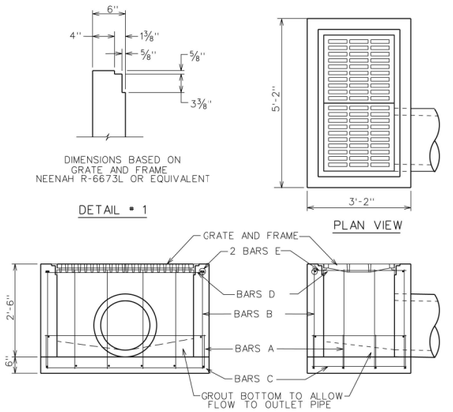
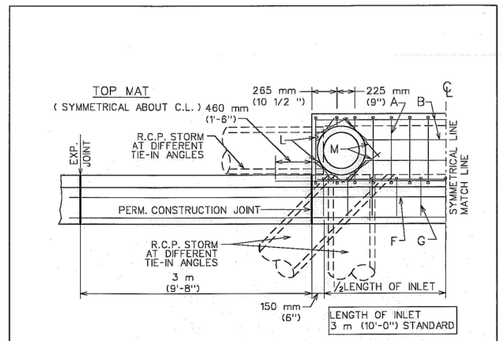


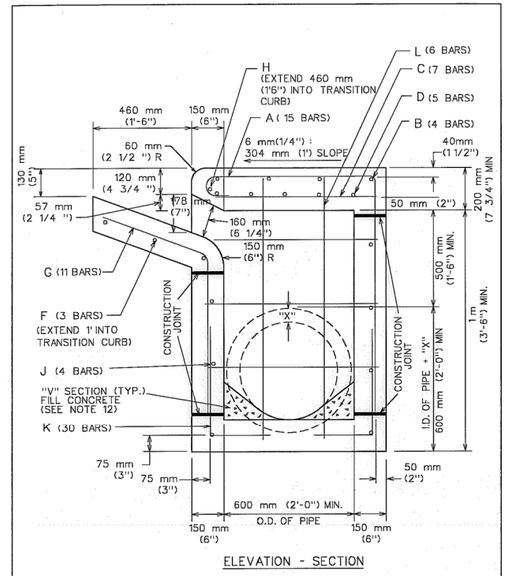
REINFORCING STEEL SCHEDULE

BAR	QTY	SIZE	SPACING	LENGTH	WEIGHT
A	4	4	12"	6'-8"	18
B	16	4	12"	3'-0"	32
C	8	4	12"	2'-10"	15
D	4	4	12"	5'-2"	14
E	4	5	12"	2'-10"	12
				TOTAL WEIGHT---91 LB.	

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW		STANDARD DROP INLET	
RECORD COPY SIGNED BY ALLEN BRECHER	5/24/88 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508-11



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL DETAILS FOR CURB INLET	
Bill Gardner 12/9/08 ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 1 OF 4



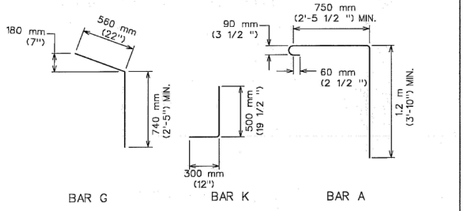
ELEVATION - SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL DETAILS FOR CURB INLET	
Bill Gardner 12/9/08 ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 2 OF 4

TABLE OF QUANTITIES
FOR 18" OUTLET PIPE
REINFORCING STEEL QUANTITIES

BARS	SIZE	SPACING	NUMBER	LENGTH	WEIGHT
A	4	230mm (9")•	15	2 m (7'-0")	73
B	4	250 mm (10")	4	3.25 m (10'-8")	29
C	4	460 mm (18")	7	760 mm (2'-6")	12
D	6	150 mm (6")	5	3.25 m (10'-8")	80
E	4	300 mm (12")	6	760 mm (2'-6")	10
F	4	250 mm (10")	3	4 m (13'-0")	35
G	4	300 mm (12")	11	1.25 m (4'-3")	31
H	6	-	1	4.25 m (14'-0")	20
J	4	300 mm (12")	7	3.25 m (10'-8")	50
K	4	230 mm (9")•	30	800 mm (2'-7 1/2")	52
L	4	300 mm (12")•	6	1.3 m (4'-4")	17
M	4	-	4	500 mm (1'-8") AVG	4
TOTAL STEEL, LB.					413
TOTAL CONCRETE, C.Y.					4.06

• EXCEPT AS SHOWN ON PLAN



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL DETAILS FOR CURB INLET	
Bill Gardner 12/9/08 ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 3 OF 4

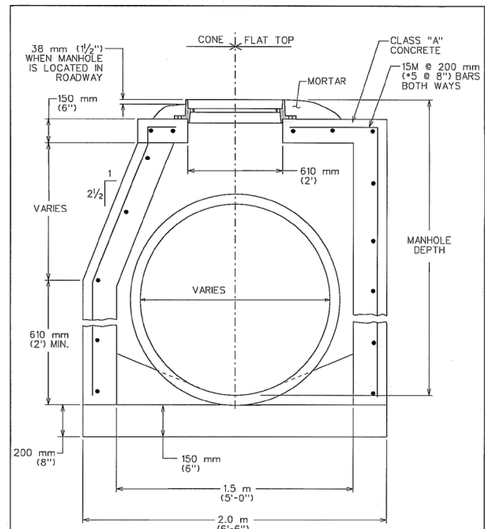
NOTES:
1. ALL CONCRETE SHALL BE CLASS "A"
2. ALL REINFORCING STEEL SHALL BE GRADE 60
3. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
4. VERTICAL STEEL MAY BE SPLICED (380 mm or 15" MIN. LAP) IN THE LOWER ONE-HALF OF ALL INLET WALLS.S. IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, PIPES AND MANHOLE FRAME, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
6. QUANTITIES SHOWN HEREON ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT WILL BE MADE FOR EACH INLET OF THE TYPE SPECIFIED, COMPLETE IN PLACE INCLUDING MANHOLE FRAME AND OVER.
7. CHAMFER ALL EXPOSED EDGES 20 mm (3/4 ").
8. MANHOLE FRAME AND COVER SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD 503S-1.
9. THE CONTRACTOR MAY PROPOSE ALTERNATE PROCEDURES FOR THE CONSTRUCTION OF INLETS, INCLUDING PRECAST UNITS. PLANS FOR SUCH PROPOSED ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION.
10. ALL INLET WALLS SHALL BE FORMED EXCEPT WHERE THE NATURE OF THE SURROUNDING MATERIAL IS SUCH THAT IT CAN BE TRIMMED TO A SMOOTH VERTICAL FACE. WHEN INLET WALLS ARE PLACED TO NEAT EXCAVATION LINES THE WALL THICKNESS SHALL NOT EXCEED 10 INCHES.
11. PAYMENT FOR INLET AT THE CONTRACT PRICE SHALL INCLUDE THE TRANSITION CUR3.
12. INVERT OF INLET SHALL BE SLOPED 1:20 WITH FILL CONCRETE, SHAPED AS "V" SECTION
13. NO SPLICING OF REINFORCING STEEL SHALL BE PERMITTED UNLESS OTHERWISE NOTED ON THE PLANS OR PERMITTED IN WRITING BY THE ENGINEER.

REFERENCES:

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

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

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL DETAILS FOR CURB INLET	
Bill Gardner 12/9/08 ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 4 OF 4



CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW		STORM DRAIN MANHOLE DETAIL	
George Dowell 2/14/08 ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-11

STATE OF TEXAS
BRADLEY MCCONNON
103741
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	45 OF 103

SHEET 2 OF 5

SP-2024-0324D

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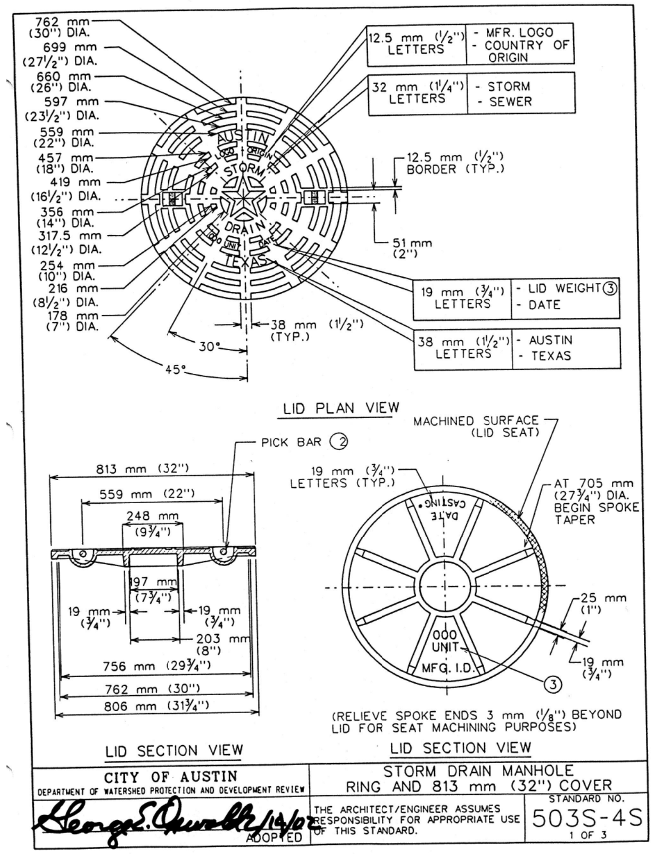
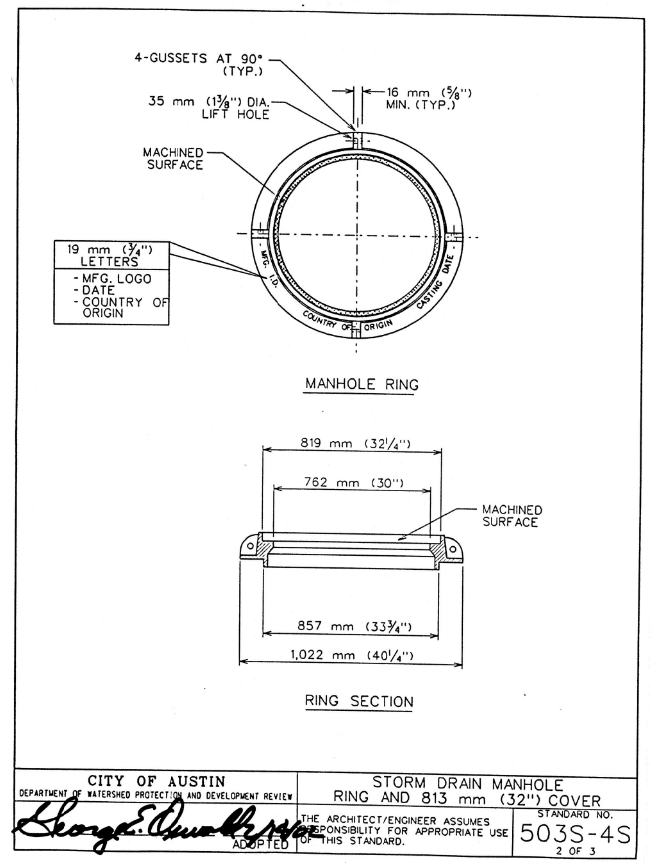
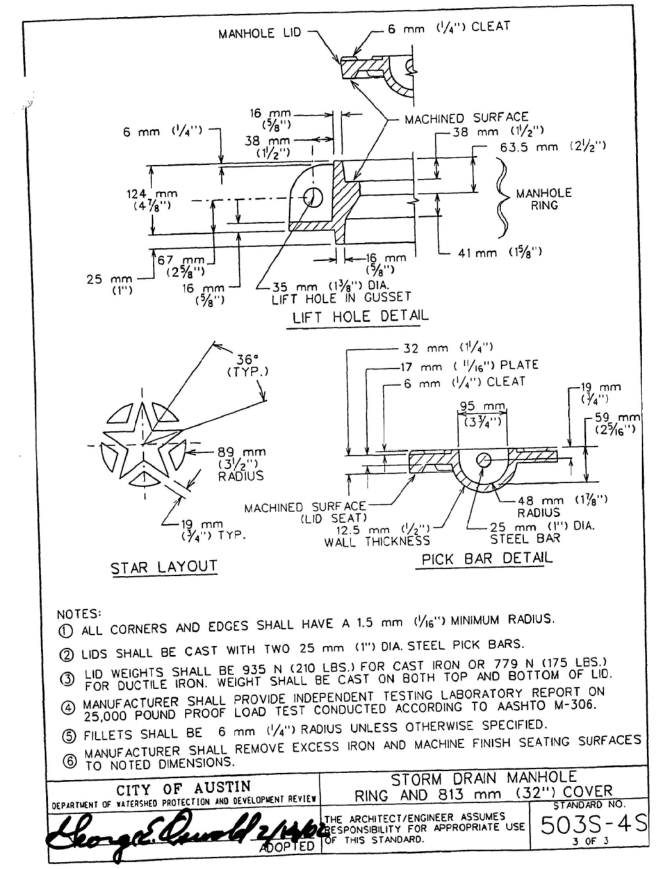


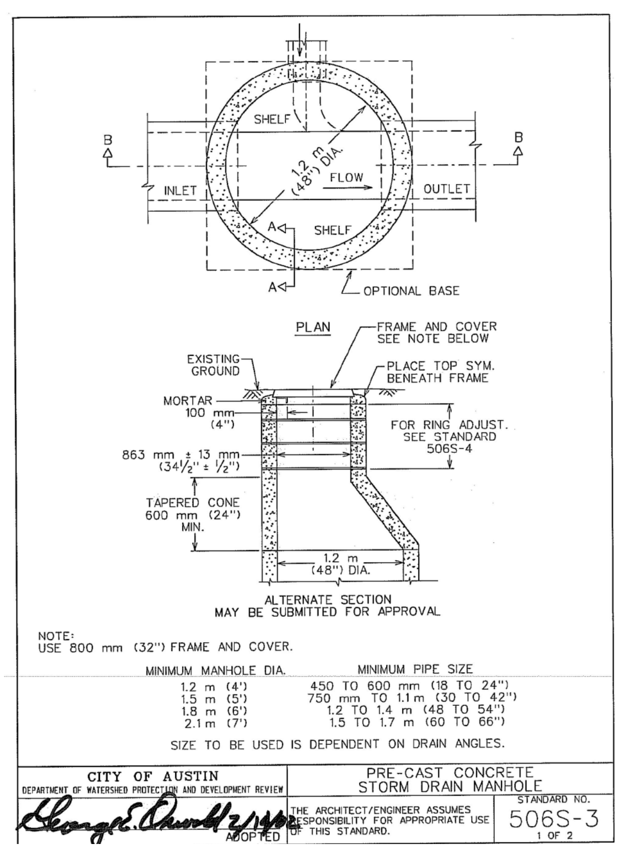
LID PLAN VIEW
LID SECTION VIEW
LID SECTION VIEW
PICK BAR ②
MACHINED SURFACE (LID SEAT)
12.5 mm (1/2") LETTERS - MFR. LOGO - COUNTRY OF ORIGIN
32 mm (1 1/4") LETTERS - STORM - SEWER
19 mm (3/4") LETTERS - LID WEIGHT③ - DATE
38 mm (1 1/2") LETTERS - AUSTIN - TEXAS
12.5 mm (1/2") BORDER (TYP.)
813 mm (32")
559 mm (22")
248 mm (9 3/4")
756 mm (29 3/4")
762 mm (30")
806 mm (31 3/4")
AT 705 mm (27 3/4") DIA. BEGIN SPOKE TAPER
(RELIEVE SPOKE ENDS 3 mm (1/8") BEYOND LID FOR SEAT MACHINING PURPOSES)
CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
STORM DRAIN MANHOLE RING AND 813 mm (32") COVER
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED
STANDARD NO. 503S-4S
1 OF 3



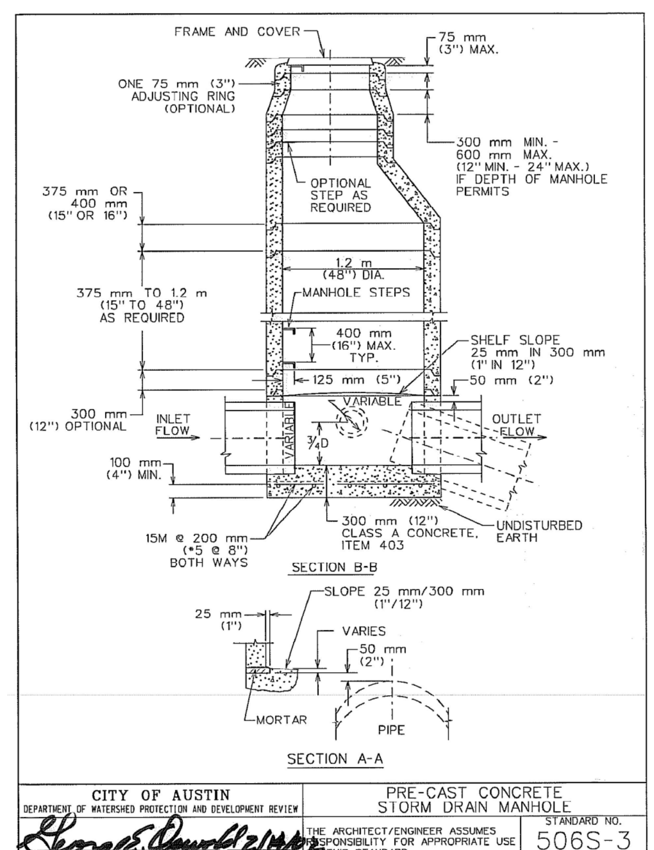
4-GUSSETS AT 90° (TYP.)
35 mm (1 3/8") DIA. LIFT HOLE
16 mm (5/8") MIN. (TYP.)
MACHINED SURFACE
19 mm (3/4") LETTERS - MFG. LOGO - DATE - COUNTRY OF ORIGIN
MANHOLE RING
819 mm (32 1/4")
762 mm (30")
MACHINED SURFACE
857 mm (33 3/4")
1,022 mm (40 1/4")
RING SECTION
CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
STORM DRAIN MANHOLE RING AND 813 mm (32") COVER
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED
STANDARD NO. 503S-4S
2 OF 3



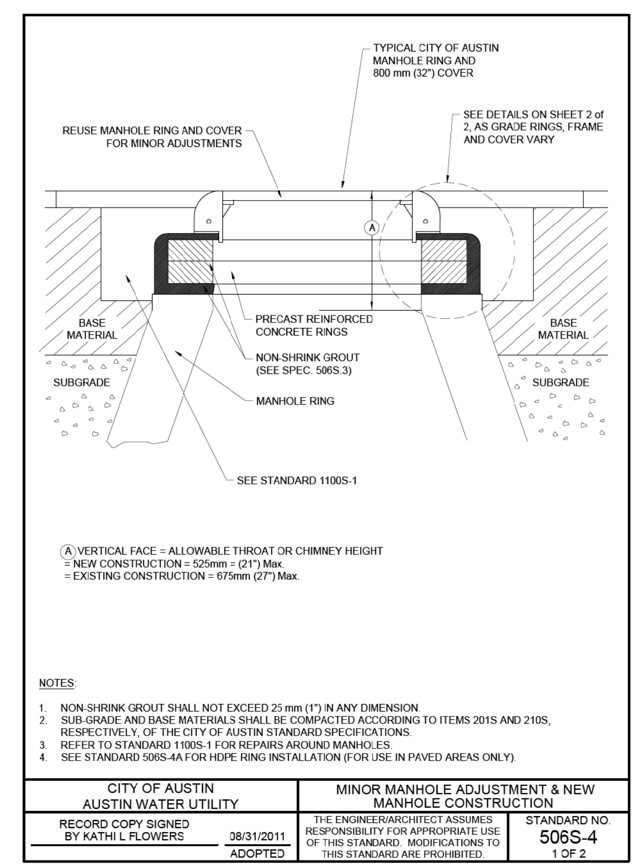
MANHOLE LID
6 mm (1/4") CLEAT
MACHINED SURFACE
MANHOLE RING
LIFT HOLE DETAIL
STAR LAYOUT
PICK BAR DETAIL
NOTES:
① ALL CORNERS AND EDGES SHALL HAVE A 1.5 mm (1/16") MINIMUM RADIUS.
② LIDS SHALL BE CAST WITH TWO 25 mm (1") DIA. STEEL PICK BARS.
③ LID WEIGHTS SHALL BE 935 N (210 LBS.) FOR CAST IRON OR 779 N (175 LBS.) FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF LID.
④ MANUFACTURER SHALL PROVIDE INDEPENDENT TESTING LABORATORY REPORT ON 25,000 POUND PROOF LOAD TEST CONDUCTED ACCORDING TO AASHTO M-306.
⑤ FILLETS SHALL BE 6 mm (1/4") RADIUS UNLESS OTHERWISE SPECIFIED.
⑥ MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.
CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
STORM DRAIN MANHOLE RING AND 813 mm (32") COVER
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED
STANDARD NO. 503S-4S
3 OF 3



SHELF
1.2 m (48") DIA.
FLOW
INLET
OUTLET
OPTIONAL BASE
PLAN
FRAME AND COVER SEE NOTE BELOW
PLACE TOP SYM. BENEATH FRAME
EXISTING GROUND
MORTAR 100 mm (4")
FOR RING ADJUST. SEE STANDARD 506S-4
863 mm ± 13 mm (34 1/2" ± 1/2")
TAPERED CONE 600 mm (24") MIN.
1.2 m (48") DIA.
ALTERNATE SECTION MAY BE SUBMITTED FOR APPROVAL
NOTE:
USE 800 mm (32") FRAME AND COVER.
MINIMUM MANHOLE DIA. / MINIMUM PIPE SIZE
1.2 m (4') 450 TO 600 mm (18 TO 24")
1.5 m (5') 750 mm TO 1.1 m (30 TO 42")
1.8 m (6') 1.2 TO 1.4 m (48 TO 54")
2.1 m (7') 1.5 TO 1.7 m (60 TO 66")
SIZE TO BE USED IS DEPENDENT ON DRAIN ANGLES.
CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
PRE-CAST CONCRETE STORM DRAIN MANHOLE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED
STANDARD NO. 506S-3
1 OF 2



FRAME AND COVER
75 mm (3") MAX.
ONE 75 mm (3") ADJUSTING RING (OPTIONAL)
300 mm MIN. - 600 mm MAX. (12" MIN. - 24" MAX.) IF DEPTH OF MANHOLE PERMITS
OPTIONAL STEP AS REQUIRED
375 mm OR 400 mm (15" OR 16")
1.2 m (48") DIA.
375 mm TO 1.2 m (15" TO 48") AS REQUIRED
MANHOLE STEPS
400 mm (16") MAX. TYP.
SHELF SLOPE 25 mm IN 300 mm (1" IN 12")
50 mm (2")
125 mm (5")
VARIABLE
300 mm (12") OPTIONAL
INLET FLOW
OUTLET FLOW
100 mm (4") MIN.
300 mm (12") CLASS A CONCRETE, ITEM 403
UNDISTURBED EARTH
15M @ 200 mm (#5 @ 8") BOTH WAYS
SECTION B-B
SLOPE 25 mm/300 mm (1"/12")
25 mm (1")
VARIES
50 mm (2")
MORTAR
PIPE
SECTION A-A
CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW
PRE-CAST CONCRETE STORM DRAIN MANHOLE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTED
STANDARD NO. 506S-3
2 OF 2



TYPICAL CITY OF AUSTIN MANHOLE RING AND 800 mm (32") COVER
SEE DETAILS ON SHEET 2 of 2, AS GRADE RINGS, FRAME AND COVER VARY
REUSE MANHOLE RING AND COVER FOR MINOR ADJUSTMENTS
BASE MATERIAL
SUBGRADE
PRECAST REINFORCED CONCRETE RINGS
NON-SHRINK GROUT (SEE SPEC. 506S.3)
MANHOLE RING
SEE STANDARD 1100S-1
Ⓐ VERTICAL FACE = ALLOWABLE THROAT OR CHIMNEY HEIGHT
= NEW CONSTRUCTION = 525mm = (21") Max.
= EXISTING CONSTRUCTION = 675mm (27") Max.
NOTES:
1. NON-SHRINK GROUT SHALL NOT EXCEED 25 mm (1") IN ANY DIMENSION.
2. SUB-GRADE AND BASE MATERIALS SHALL BE COMPACTED ACCORDING TO ITEMS 201S AND 210S, RESPECTIVELY, OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
3. REFER TO STANDARD 1100S-1 FOR REPAIRS AROUND MANHOLES.
4. SEE STANDARD 506S-4 FOR HDPE RING INSTALLATION (FOR USE IN PAVED AREAS ONLY).
CITY OF AUSTIN
AUSTIN WATER UTILITY
RECORD COPY SIGNED BY KATHI L FLOWERS
08/31/2011
ADOPTED
MINOR MANHOLE ADJUSTMENT & NEW MANHOLE CONSTRUCTION
THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.
STANDARD NO. 506S-4
1 OF 2

STATE OF TEXAS
BRADLEY MCCONNON
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn: SMW	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	46 OF 103

SHEET 3 OF 5

SP-2024-0324D

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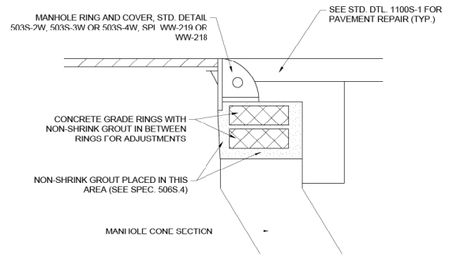
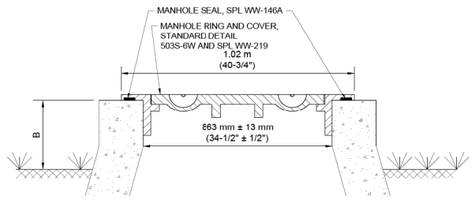
INSIDE PAVEMENT DETAIL



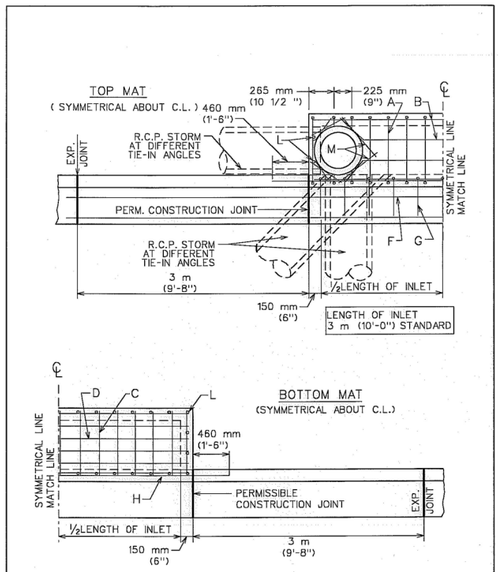
OUTSIDE PAVEMENT DETAIL



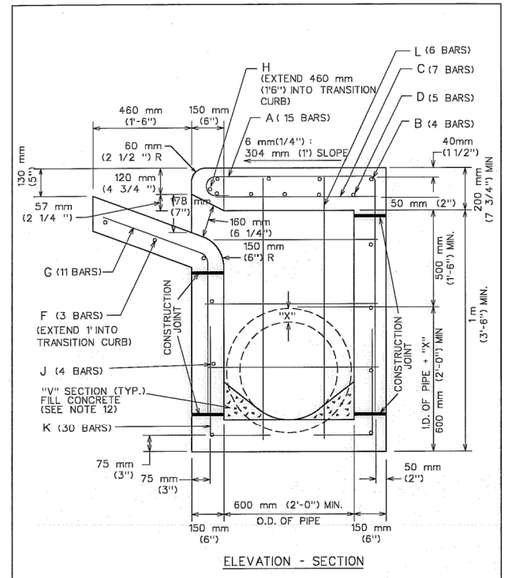
NOTES:

1. FOR USE IN UNPAVED AREAS ONLY.
2. WHEN USED WITHIN 100-YEAR FLOODPLAIN, SEE DTL. 506S-6 FOR ADDITIONAL M.H. REQUIREMENTS.
3. DIMENSION B=150-300 mm (6"-12") FOR M.H. LOCATED IN 100-YR FLOOD PLAN; B=50-300 mm (2"-12") FOR M.H. OUTSIDE 100-YR FLOOD PLAN

CITY OF AUSTIN AUSTIN WATER UTILITY	MINOR MANHOLE ADJUSTMENT & NEW MANHOLE CONSTRUCTION	
RECORD COPY SIGNED BY KATHI L FLOWERS 08/31/2011 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 506S-4 2 OF 2



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAILS FOR CURB INLET	
Bill Gardner 12/9/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 1 OF 4



ELEVATION - SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAILS FOR CURB INLET	
Bill Gardner 12/9/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 2 OF 4

TABLE OF QUANTITIES
FOR 18" OUTLET PIPE
REINFORCING STEEL QUANTITIES

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H	6	-	1	4.25 m (14'-0")	20
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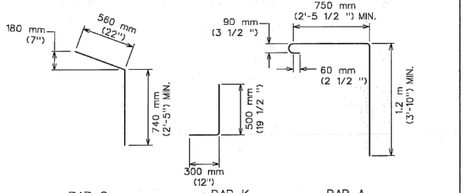
TOTAL CONCRETE, C.Y.					4.06

* EXCEPT AS SHOWN ON PLAN



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAILS FOR CURB INLET	
Bill Gardner 12/9/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 3 OF 4

NOTES:

1. ALL CONCRETE SHALL BE CLASS "A"
2. ALL REINFORCING STEEL SHALL BE GRADE 60
3. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
4. VERTICAL STEEL MAY BE SPLICED (380 mm or 15" MIN. LAP) IN THE LOWER ONE-HALF OF ALL INLET WALLS.5. IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, PIPES AND MANHOLE FRAME, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
6. QUANTITIES SHOWN HEREON ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT WILL BE MADE FOR EACH INLET OF THE TYPE SPECIFIED, COMPLETE IN PLACE INCLUDING MANHOLE FRAME AND OVER.
7. CHAMFER ALL EXPOSED EDGES 20 mm (3/4 ").
8. MANHOLE FRAME AND COVER SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD 503S-1.
9. THE CONTRACTOR MAY PROPOSE ALTERNATE PROCEDURES FOR THE CONSTRUCTION OF INLETS, INCLUDING PRECAST UNITS. PLANS FOR SUCH PROPOSED ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION.
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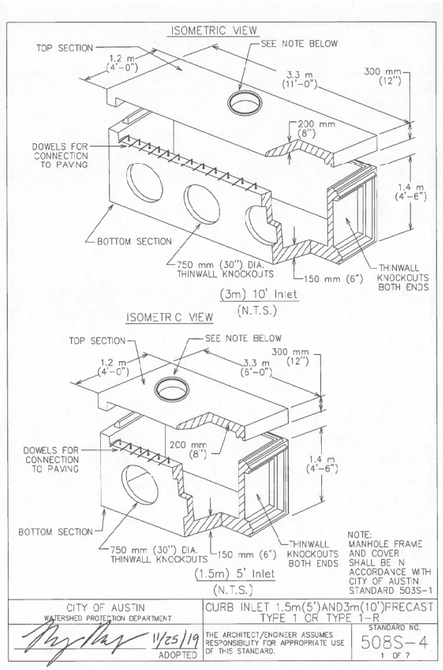
11. PAYMENT FOR INLET AT THE CONTRACT PRICE SHALL INCLUDE THE TRANSITION CUR3.
12. INVERT OF INLET SHALL BE SLOPED 1:20 WITH FILL CONCRETE, SHAPED AS "V" SECTION
13. NO SPLICING OF REINFORCING STEEL SHALL BE PERMITTED UNLESS OTHERWISE NOTED ON THE PLANS OR PERMITTED IN WRITING BY THE ENGINEER.

REFERENCES:

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

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

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL DETAILS FOR CURB INLET	
Bill Gardner 12/9/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 4 OF 4



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R	
11/25/19 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANCARD.	STANDARD NO. 508S-4 1 OF 7

STATE OF TEXAS
BRADLEY MCCONNON
95474
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn: SMW	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	47 OF 103

SHEET 4 OF 5

SP-2024-0324D

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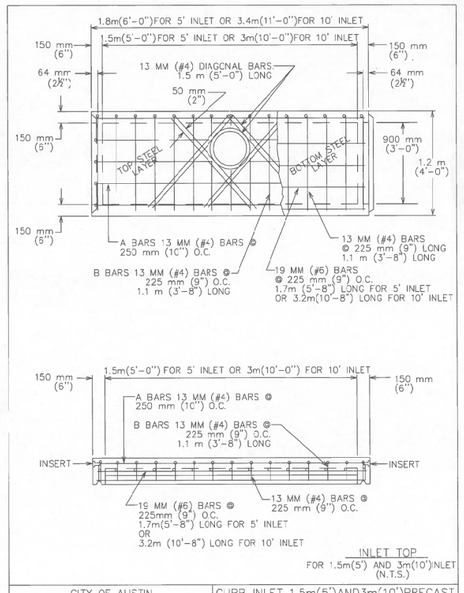

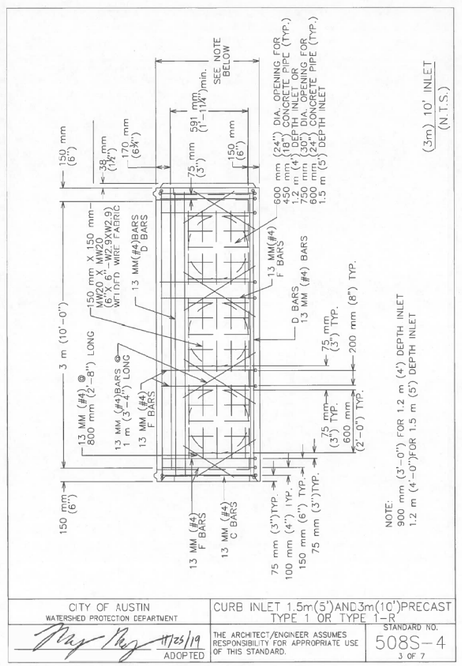

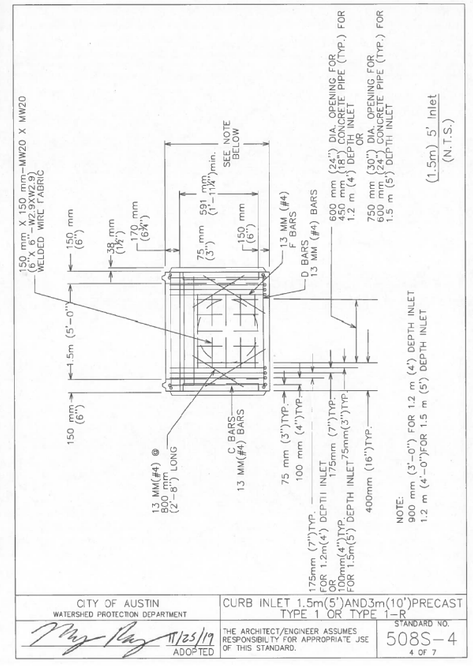

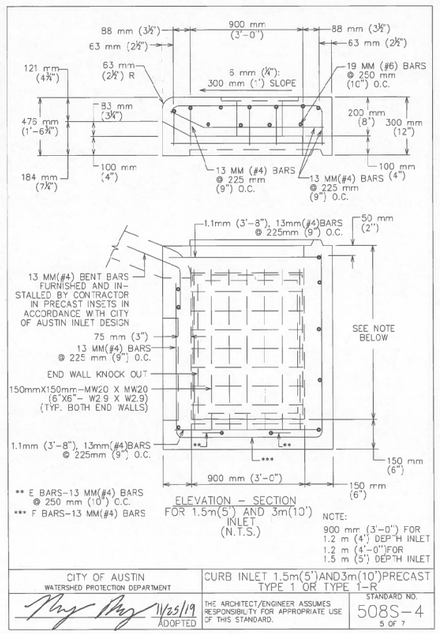

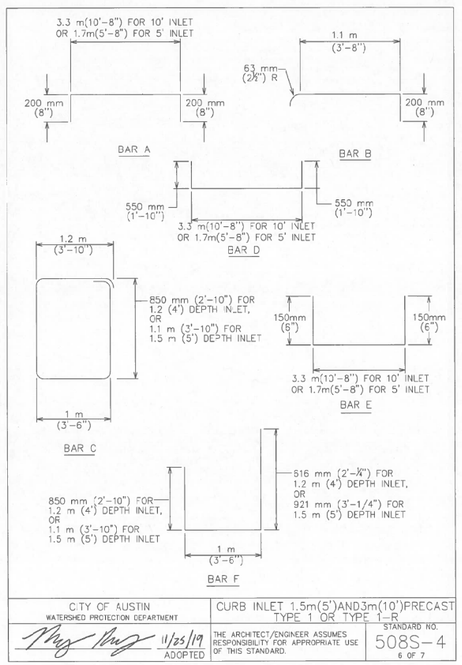

NOTES:
1. ALL CONCRETE SHALL BE CLASS "A" AS PER ITEM 403S.
2. ALL REINFORCING STEEL SHALL BE GRADE 60
3. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
4. IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, PIPES AND MANHOLE FRAME, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
5. PAYMENT FOR INLET AT THE CONTRACT PRICE SHALL INCLUDE THE TRANSITION CURB, IN ACCORDANCE WITH CITY OF AUSTIN STANDARD INLET DESIGN.
6. INVERT OF INLET SHALL BE SLOPED 1:20 WITH FILL CONCRETE BY CONTRACTOR, SHAPED AS "V" SECTION.
7. THIS STANDARD COMPLIES WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS ITEM NO. 508S.
8. WHEN PLACING PRECAST INLETS IN SERIES TO CREATE A 15'-0" OR 20'-0" CURB INLET, THE CONNECTION BETWEEN INLET BOXES SHALL BE SOIL TIGHT AND FULLY CONVEY THE PEAK DESIGN FLOW FROM THE UPSTREAM INLET(S). THE 1:20 INVERT SLOPE DESCRIBED IN NOTE 6 OF THIS DETAIL SHALL EXTEND FROM THE MOST DOWNSTREAM POINT TO THE MOST UPSTREAM OF THE CONNECTED INLET BOXES. AT NO TIME CAN MORE THAN 20-LF OF CURB OPENING BE CONNECTED TO A MAIN STORM DRAIN LINE WITH ONE LATERAL STORM DRAIN CONNECTION.

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT
CURB INLET 1.5m(5')AND3m(10')PRECAST TYPE 1 OR TYPE 1-R
11/25/19 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
STANDARD NO. 508S-4
7 OF 7

STATE OF TEXAS
BRADLEY MCCONNON
106474
LICENSED
PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

DRAINAGE STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn: SMW	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	48 OF 103

SHEET 5 OF 5

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I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506.

List MS4 Operator(s) that may receive discharges from this project. They may need to be notified prior to construction activities.

1. City of Austin
2.

☐ No Action Required ☒ Required Action

Action No.

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000
2. Comply with the SW3P and revise when necessary to control pollution or required by the Engineer.
3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.
4. When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.

The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

☐ No Permit Required
☒ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)
☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)
☐ Individual 404 Permit Required
☐ Other Nationwide Permit Required: NWP# _____

Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.

1. TRIBUTARY 3 TO LAKE CREEK
2.
3.
4.

The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts.

Best Management Practices:

Erosion	Sedimentation	Post-Construction TSS
☒ Temporary Vegetation	☒ Silt Fence	☐ Vegetative Filter Strips
☐ Blankets/Matting	☒ Rock Berm	☐ Retention/Irrigation Systems
☐ Mulch	☐ Triangular Filter Dike	☐ Extended Detention Basin
☐ Sodding	☐ Sand Bag Berm	☐ Constructed Wetlands
☐ Interceptor Swale	☐ Straw Bale Dike	☐ Wet Basin
☐ Diversion Dike	☐ Brush Berms	☐ Erosion Control Compost
☐ Erosion Control Compost	☐ Erosion Control Compost	☐ Mulch Filter Berm and Socks
☐ Mulch Filter Berm and Socks	☐ Mulch Filter Berm and Socks	☐ Compost Filter Berm and Socks
☐ Compost Filter Berm and Socks	☐ Compost Filter Berm and Socks	☐ Vegetation Lined Ditches
	☐ Stone Outlet Sediment Traps	☐ Sand Filter Systems
	☐ Sediment Basins	☐ Grassy Swales

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

☐ No Action Required ☒ Required Action

Action No.

1. If unanticipated archaeological deposits are encountered during construction, work in the immediate area will cease, and City of Austin archaeological staff will be contacted to initiate post-review discovery procedures.
2.

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.
Contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.

☐ No Action Required ☒ Required Action

Action No.

1. If unanticipated archaeological deposits are encountered during construction, work in the immediate area will cease, and City of Austin archaeological staff will be contacted to initiate post-review discovery procedures.
2.
3.
4.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

☒ No Action Required ☐ Required Action

Action No.

1.
2.
3.
4.

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.

LIST OF ABBREVIATIONS

BMP:	Best Management Practice	SPCC:	Spill Prevention Control and Countermeasure
CGP:	Construction General Permit	SW3P:	Storm Water Pollution Prevention Plan
DSHS:	Texas Department of State Health Services	PCN:	Pre-Construction Notification
FHWA:	Federal Highway Administration	PSL:	Project Specific Location
MOA:	Memorandum of Agreement	TCEQ:	Texas Commission on Environmental Quality
MOU:	Memorandum of Understanding	TPDES:	Texas Pollutant Discharge Elimination System
MS4:	Municipal Separate Stormwater Sewer System	TPWD:	Texas Parks and Wildlife Department
MBTA:	Migratory Bird Treaty Act	TxDOT:	Texas Department of Transportation
NOT:	Notice of Termination	T&E:	Threatened and Endangered Species
NWP:	Nationwide Permit	USACE:	U.S. Army Corps of Engineers
NOI:	Notice of Intent	USFWS:	U.S. Fish and Wildlife Service

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing 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 MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup 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

Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)?

☐ Yes ☒ No

If "No", then no further action is required.
If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

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 assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notify DSHS 15 working days prior to any scheduled demolition.

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

☐ No Action Required ☐ Required Action

Action No.

1.
2.
3.

VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

☐ No Action Required ☒ Required Action

Action No.

1. Project is within the Edwards Aquifer Recharge Zone. No additional impervious cover is being added as a result of this project. Ensure TCEQ construction regulations are being followed.
2.
3.

Texas Department of Transportation — Design Division Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS EPIC

FILE: epic.dgn	DN: TxDOT	CK: RG	DW: VP	CK: AR	
©TxDOT: February 2015	CONT	SECT	JOB	HIGHWAY	
REVISIONS					
12-12-2011 IDS)					
05-07-14 ADDED NOTE SECTION IV.	DIST	COUNTY		SHEET NO.	
01-23-2015 SECTION I CHANGED ITEM 1122 TO ITEM 506, ADDED GRASSY SWALES.	AUS	WILLIAMSON		61	

STATE OF TEXAS — BRADLEY MCCONNON — 104741 — LICENSED PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD
ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	61 OF 103

SHEET 1 OF 1

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A. GENERAL SITE DATA

1. PROJECT LIMITS: *POND SPRINGS RD FROM 500'S OF TURTLE ROCK RD TO ROXIE DR*

Begin Project Coordinates : Latitude (N): 30.4446420 Longitude (W): -97.7773255

2. PROJECT SITE MAPS:

- *Project Location Map: The Title Sheet*
- *Drainage Patterns: Drainage Area Maps (Sheets 21-23)*
- *Slopes Anticipated After Major Gradings or Areas of Soil Disturbance: Typical Sections (Sheets 8-10)*
- *Location of Erosion and Sediment Controls: SW3P Site Maps (Sheets 66-68)*
- *Surface Waters and Discharge Locations: Drainage Plans (Sheets 26-29)*
- *Project Specific Location(s) (PSL): To be determined by the project Construction Personnel. Location(s) shown on SW3P Site Map (If PSL location(s) is within one mile of project) and information located in project SW3P Binder (Reference Item #10 below).*

3. PROJECT DESCRIPTION:

CONSTRUCTION OF STORM DRAIN IMPROVEMENTS CONSISTING OF STREET REPAIRS AND STRUCTURES.

4. MAJOR SOIL DISTURBING ACTIVITIES:

Install controls down-slope of work area and initiate inspection and maintenance activities.

Begin phased construction with interim stabilization practices. Adjust erosion and sedimentation controls during construction to meet requirements and changing conditions and as directed/approved by the Engineer.

Major soil disturbing activities may include but are not limited to: right-of-way preparation, cut and/or fill to improve roadway profile, final grading and placement of topsoil and the following (if marked): Installing culverts.

5. EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:

Crawford Clay (53%), Eckrant cobbly clay (22%), Fairlie clay (26%), 10% vegetative cover

6. TOTAL PROJECT AREA: *0.38* Acres

7. TOTAL AREA TO BE DISTURBED: *0.32* Acres *(84 %)*

8. WEIGHTED RUNOFF COEFFICIENT

BEFORE CONSTRUCTION: *0.97*
AFTER CONSTRUCTION: *0.97*

9. NAME OF RECEIVING WATERS:

All runoff associated with this project drains into Lake Creek Tributary 3 which drains into Lake Creek Segment No. 1244B, Brushy Creek Segment No. 1244, San Gabriel River Segment No. 1214, Little River Segment No. 1213, the Brazos River Segment No. 1242, the Brazos River segment No. 1202, and ultimately, into the Gulf of Mexico.

10. PROJECT SW3P Binder:

A. For projects disturbing one to five acres, The Contractor will maintain a SW3P Binder at the project field office (If there is not a project field office, should be kept on the Job Site at all times) which contains the following: Index Sheet, TCEQ Signature Authority, TCEQ Small Construction Site Notice, Contractor Certification of Compliance, SW3P Inspector Qualification Statements, Inspection and Maintenance Reports (Form 2118), SW3P Sheet, Site Location Maps, Stored Material Lists specifying associated control measures and the Appendix which contains the TPDES Construction General Permit, MS4 Operator Notification(s) and the Construction PSL Permits per all applicable requirements.

B. For projects disturbing 5 acres or more, the Contractor will follow the actions listed in (10.A.) above with the addition of the following: Notice Of Intent (N.O.I.) and Fee Payment Form, TCEQ Large Construction Site Notice (to be used instead of Small Site Notice), and TPDES Permit Coverage Notice.

C. For projects disturbing less than one acre, actions described in (10.A.) and (10.B.) above are not required. Acreage is calculated by adding Total Area To Be Disturbed Acres on project (See #7 above) and the PSL(s) acreage located within one mile of project.

B. EROSION AND SEDIMENT CONTROLS

1. SOIL STABILIZATION PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

- ___T___ TEMPORARY SEEDING
- ____ MULCHING (Hay or Straw)
- ____ BUFFER ZONES
- ____ PLANTING
- ____ SEEDING
- ___P___ SODDING
- ____ PRESERVATION OF NATURAL RESOURCES
- ____ FLEXIBLE CHANNEL LINER
- ___P___ RIGID CHANNEL LINER
- ____ SOIL RETENTION BLANKET
- ____ COMPOST MANUFACTURED TOPSOIL
- ____ VERTICAL TRACKING
- ____ OTHER: *Disturbed areas on which Construction activity has ceased, either temporarily or permanently, shall be stabilized within 14 days unless activities are scheduled to resume and do so within 21 days.*

2. STRUCTURAL PRACTICES:
(T = Temporary or P = Permanent)

- ___T___ SILT FENCES
- ___T___ EROSION CONTROL LOGS
- ____ EROSION CONTROL COMPOST BERMS (Low Velocity)
- ___T___ ROCK FILTER DAMS
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- ____ DIVERSION DIKE AND SWALE COMBINATIONS
- ____ PIPE SLOPE DRAINS
- ____ PAVED FLUMES
- ____ ROCK BEDDING AT CONSTRUCTION EXIT
- ____ TIMBER MATTING AT CONSTRUCTION EXIT
- ____ CHANNEL LINERS
- ____ SEDIMENT TRAPS
- ___P___ SEDIMENT BASINS
- ____ STORM INLET SEDIMENT TRAP
- ____ STONE OUTLET STRUCTURES
- ___P___ CURBS AND GUTTERS
- ___P___ STORM SEWERS
- ____ VELOCITY CONTROL DEVICES
- ____ OTHER:

NOTE: TOP OF BMP'S SHOULD NOT BE HIGHER THAN ROADWAY ELEVATION AS NOT TO FLOOD ROADWAY UNLESS PRIOR APPROVAL FROM ENGINEER IS OBTAINED.

3. STORM WATER MANAGEMENT:

A. Storm water drainage will be provided by ditches, inlets, and storm water systems which carry drainage within the R.O.W. to the lows within the roadway and project site which drains to natural facilities.

B. Non paved areas and ditches shall be stabilized with a permanent vegetative cover.

4. STORM WATER MANAGEMENT ACTIVITIES: (Sequence of Construction)

1. INSTALL SILT FENCES AND ROCK BERMS. PREPARE R.O.W., BEGIN EXCAVATION AND EMBANKMENT.

2. INSTALL ALL CROSS CULVERTS AND STORM DRAIN FACILITIES.

3. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABLE AND APPROVED BY THE CONSTRUCTION ENGINEER, REMOVE ALL TEMPORARY CONTROLS AND SOD ANY AREAS DISTURBED BY THEIR REMOVAL.

5. NON-STORM WATER DISCHARGES:

Filter non-storm water discharges, or hold in retention basins, before being allowed to mix with storm water. These discharges consist of, but not limited to, non-polluted ground water, spring water, foundation or footing drain water, water used for dust control or pavement washing and vehicle washwater containing no detergents.

C. OTHER REQUIREMENTS & PRACTICES

1. MAINTENANCE:

Maintain all erosion and sediment controls in good working order. Perform any necessary cleaning/repairs/replacements at the earliest possible date prior to next rain event, but no later than 7 calendar days, Ensure the surrounding ground has dried sufficiently to prevent damage from equipment. "Too Wet" is the only reason for not adhering to time frames described. When construction activities permanently or temporarily cease and are not expected to resume for 14 or more days on a disturbed portion of the site, stabilization measures must be initiated immediately.

2. INSPECTION:

A Construction Observer will perform a regularly scheduled SW3P inspection every 7 calendar days. An Inspection and Maintenance Report, signed by the Construction Observer and the Contractor, will be filed for each inspection. Revise/clean/repair/replace each BMP control device in accordance with the current Field Inspection and Maintenance Report (Form 2118) and Item 1 (Maintenance) above.

3. WASTE MATERIALS:

On a daily basis, or as may be directed, collect all waste materials, trash and debris from the construction site and deposit into a metal dumpster having a secure cover and which meets all state and local city solid waste management requirements. Empty the dumpster as required by regulation, or as may be directed, at a local approved landfill site. Do not bury construction waste on the construction project site.

4. HAZARDOUS WASTE & SPILL REPORTING:

As a minimum, any products in the following categories are considered to be hazardous: Paints, Acids, Solvents, Fuels, Asphalt Products, Chemical Additives for Soil Stabilization, and Concrete Curing Compounds or Additives. When storing hazardous material on the project site, or at a Project Specific Location, take all practicable precaution to prevent and/or contain any spillage of these materials. In the event of a spill, contact the spill coordinator immediately.

5. SANITARY WASTE:

Use a licensed sanitary waste management contractor to collect all sanitary waste from portable units as may be required by local regulation, or as directed.

6. CONSTRUCTION VEHICLE TRACKING:

On a regular basis, or as may be directed, dampen haul roads for dust control and stabilize construction entrances/exits. Provide for a motorized broom or vacuum type sweeper to be available on a daily basis, or as may be directed, to remove sediment from paved roadways abutting or traversing the project site.

7. MANAGEMENT PRACTICES:

A. Construct disposal areas, stockpiles, haul roads and PSL's in a manner that will minimize and control the amount of sediment that may enter receiving waters. Do not locate disposal areas in any wetland, waterbody or streambed.

B. Locate construction staging areas, vehicle maintenance and PSL's areas in a manner to minimize the runoff of pollutants.

C. When working in or near a wetland, install and maintain operating soil erosion and sediment controls at all times during construction and isolate the work from the wetland.

D. Clear all waterways as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, debris or other obstructions placed during construction operations that are not a part of the finished work.

E. Procedures and/or practices should be taken to control dust.

F. Sediment to be removed from roadways daily or when work begins after weather events if construction activities have ceased due to weather event.

G. The Contractor will be required to contain wash water from concrete trucks in a manner that will prevent same from entering any waterway.

H. The Contractor is responsible for insuring that all Subcontractors are aware and comply with all components of the Temporary Erosion Control Plans.

STATE OF TEXAS
BRADLEY MCCONNON
103474
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD
STORM WATER POLLUTION PREVENTION PLAN (SW3P)

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	62 OF 103

SHEET 1 OF 1

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Texas Commission on Environmental Quality
Water Pollution Abatement Plan
General Construction Notes

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

1. 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:
   - the name of the approved project;
   - the activity start date; and
   - the contact information of the prime contractor.

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. 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 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 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, distribution system, well, or sensitive feature.

5. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the 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.

6. 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.

7. Sediment must be removed from the sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.

8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.

9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For 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.

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

12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

   A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to 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;

   C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339-2929 Fax (512) 339-3795	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

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TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD
EROSION AND SEDIMENT CONTROL GENERAL CONSTRUCTION NOTES

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	AUR	Designed:	AUR	STATE	COUNTY	SHEET NO.
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SHEET 1 OF 1

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APPENDIX Q–2 IMPERVIOUS COVER

WATER QUALITY TRANSITION ZONE(WQTZ)

1 WQTZ OUTSIDE OF 100–YEAR FLOODPLAIN (NON–FP WQTZ) = 0 ACRES

ALLOWABLE IMPERVIOUS COVER

2 IMPERVIOUS COVER ALLOWS AT 0 % X (NON–FP WQTZ) = 0 ACRES

3 IMPERVIOUS COVER ALLOWS AT 90 % X(NET SITE AREA) = 3.538 ACRES

4 TOTAL ALLOWED IMPERVIOUS COVER = 3.538 ACRES

PROPOSED IMPERVIOUS COVER

5 IMPERVIOUS COVER IN NON–FP WQTZ

5a EXISTING PROPOSED TO REMAIN = 0 ACRES

5b PROPOSED NEW = 0 ACRES

5c SUBTOTAL = 0 ACRES

6 IMPERVIOUS COVER IN UPLANDS ZONE

6a EXISTING PROPOSED TO REMAIN = 2.250 ACRES

6b PROPOSED NEW = 0 ACRES

6c SUBTOTAL = 2.250 ACRES

7 TOTAL PROPOSED IMPERVIOUS COVER = 2.250 ACRES

ALLOWABLE IMPERVIOUS COVER BREAKDOWN BY SLOPE CATEGORY

8 TOTAL ACREAGE WITH SLOPES 15–25% = 0 ACRES X 10% = 0 ACRES

PROPOSED IMPERVIOUS COVER ON SLOPES

			IMPERVIOUS COVER		
			BUILDING & OTHER IMPERVIOUS COVER		DRIVES/ ROADWAYS
	SLOPE CATEGORIES	ACRES	ACRES	% OF CATEGORY	ACRES
9	0–15%	2.25	0	0.00%	2.25
10	15–25%	0	0	0.00%	0
11	25–35%	0	0	0.00%	0
12	>35%	0	0	0.00%	0
13	GROSS SITE AREA	3.9309			

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD
COA ENVIRONMENTAL CRITERIA MANUAL
APPENDIX Q–1 & Q–2 TABLES

WILLIAMSON COUNTY ROAD BOND PROGRAM

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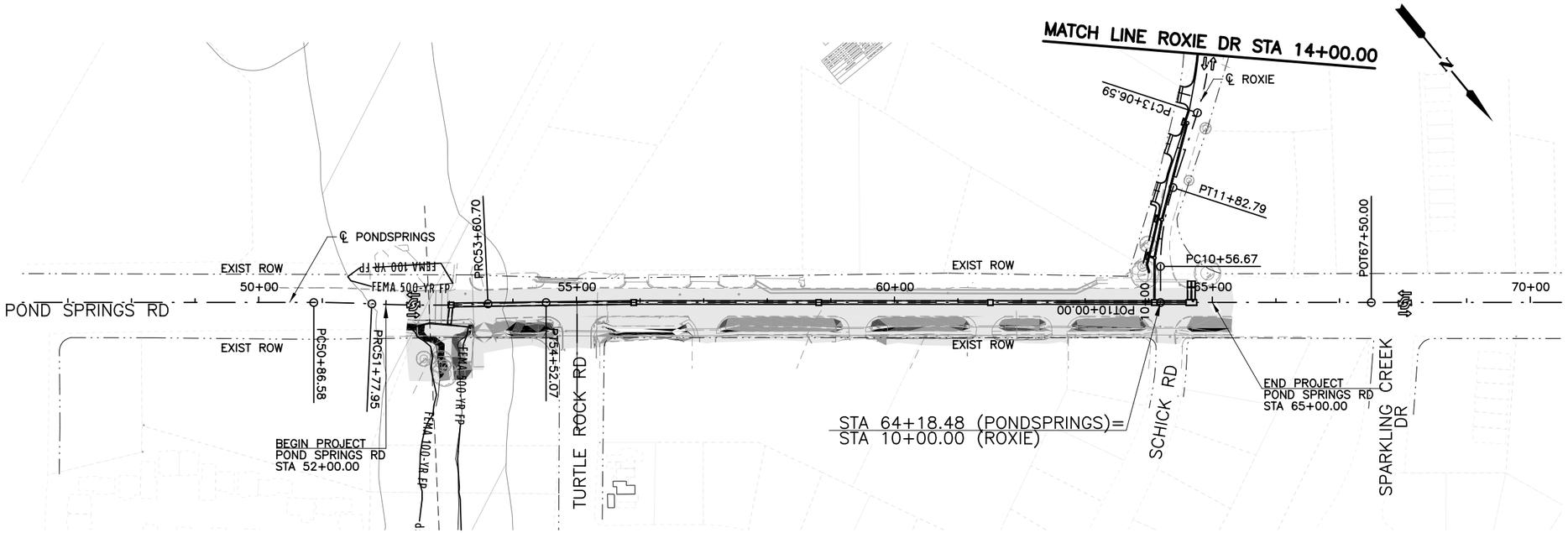

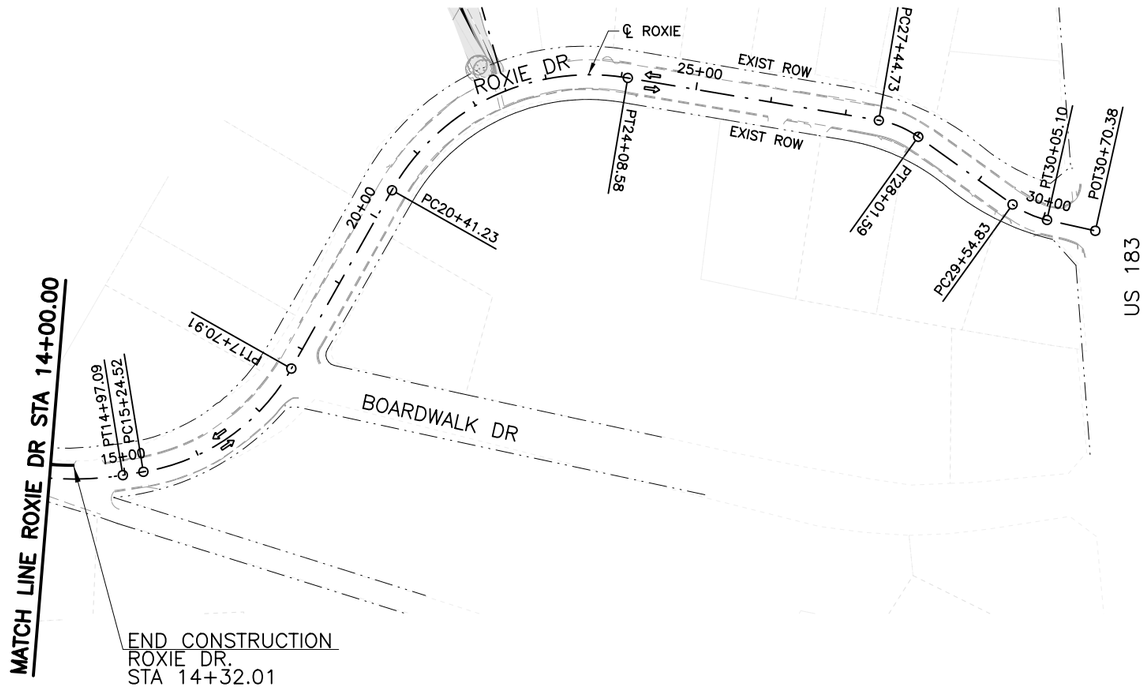

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

SLOPE MAP

WILLIAMSON COUNTY ROAD BOND PROGRAM

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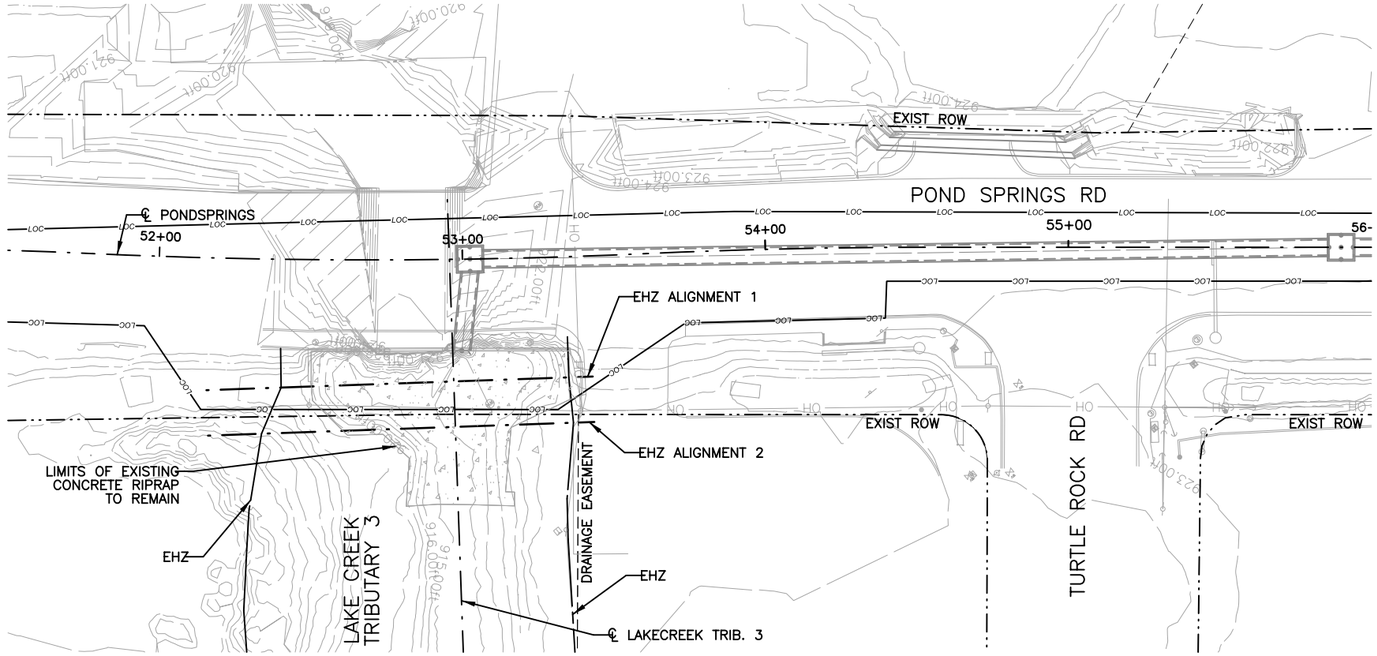

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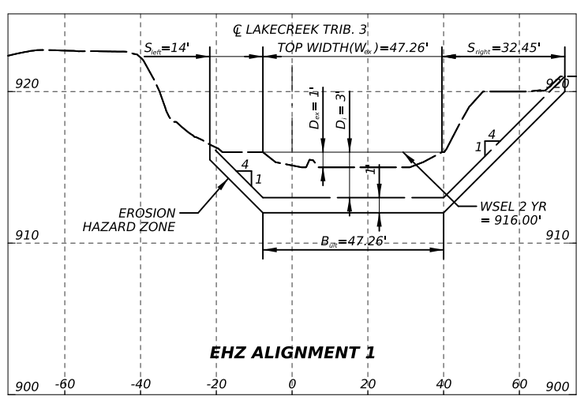

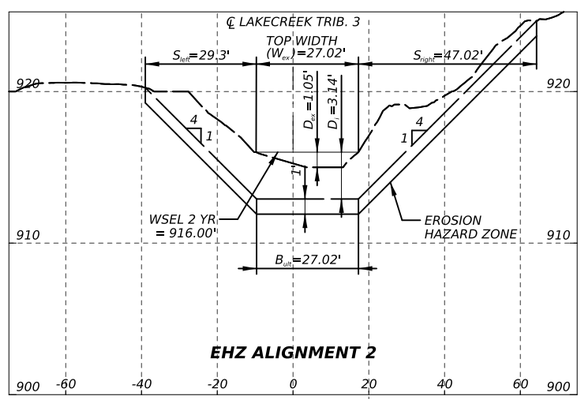

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5 2.5 0 5 10
SCALE EHZ VERT. FEET

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

EROSION HAZARD ZONE ANALYSIS

WILLIAMSON COUNTY ROAD BOND PROGRAM

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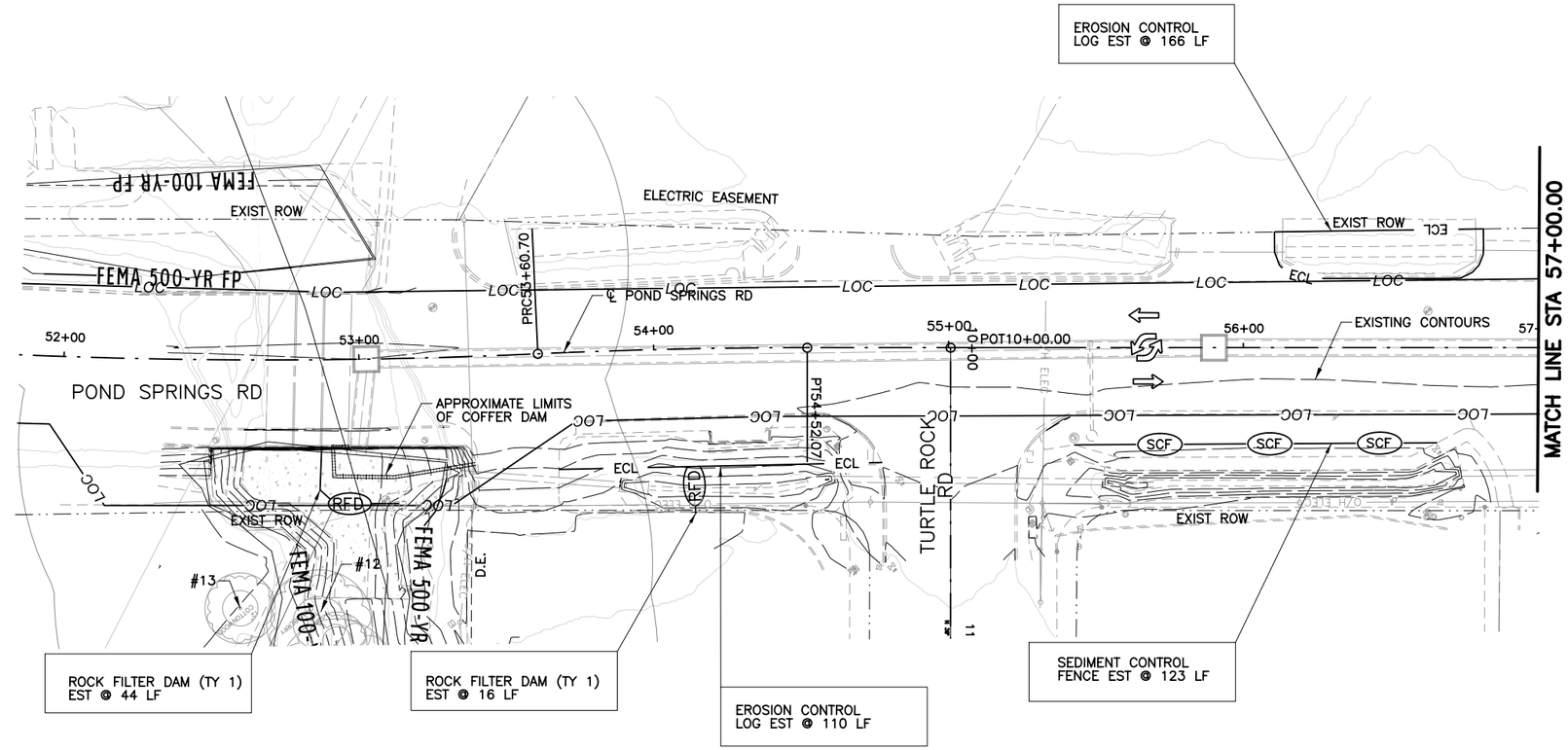

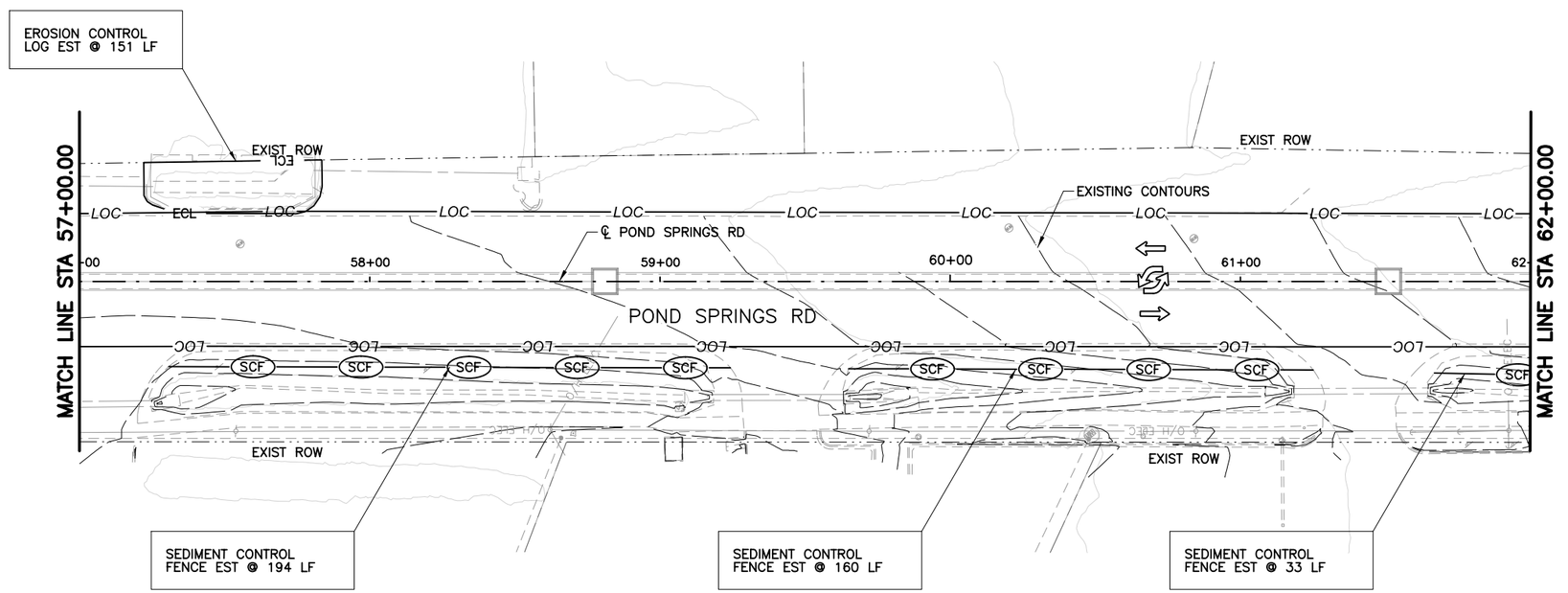

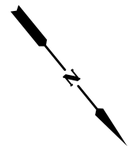

LEGEND

- SCF — SILT FENCE
- RFD — ROCK FILTER DAM
- ECL — EROSION CONTROL LOG
- X — TREE PROTECTION FENCING
- TRAFFIC DIRECTION
- FEMA 100-YR FP — EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
- FEMA 500-YR FP — EXISTING & PROPOSED FEMA/CITY 500 YR FLOODPLAIN
- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE
- SODDING/VEGETATION

*SEE GENERAL NOTES SHEETS FOR EROSION AND SEDIMENTATION CONTROL NOTES

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EROSION AND SEDIMENTATION CONTROL PLAN
BEGIN TO STA 62+00.00

WILLIAMSON COUNTY ROAD BOND PROGRAM

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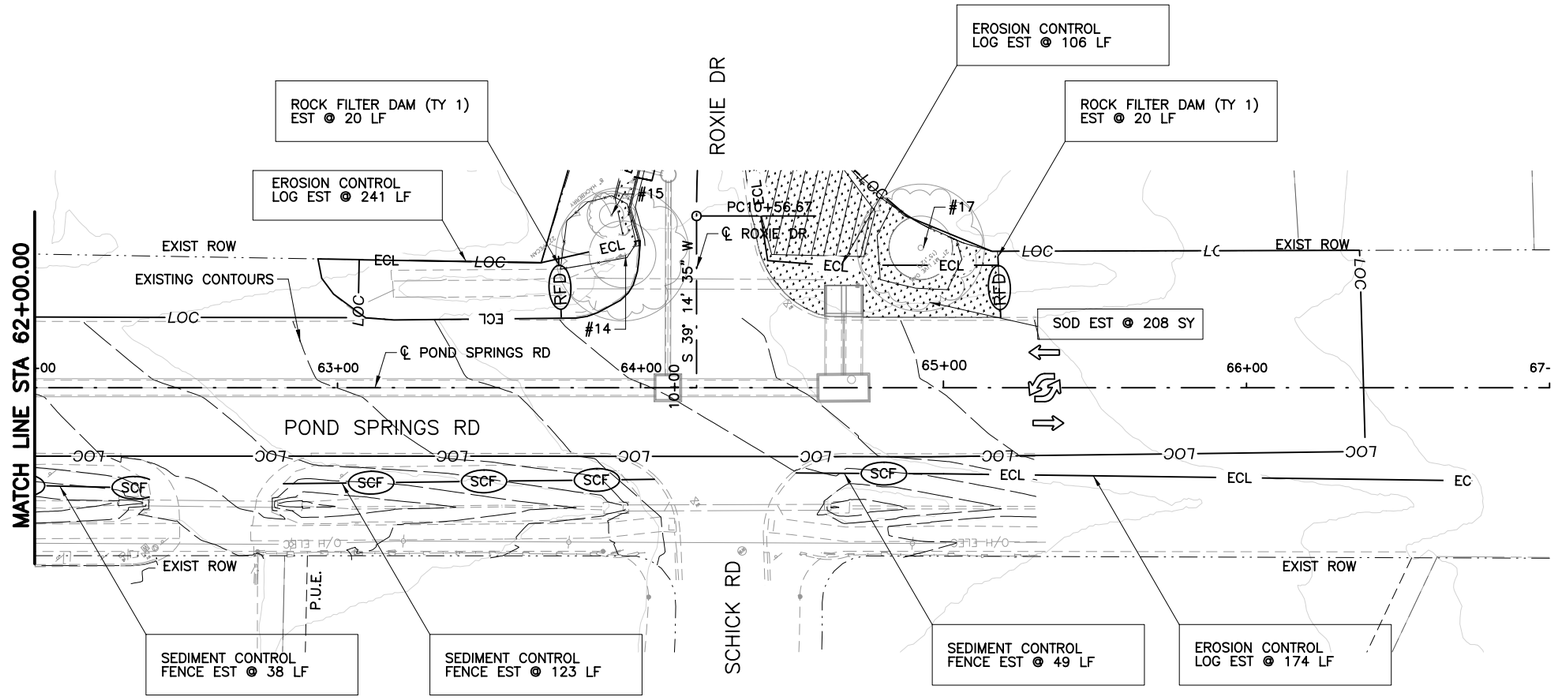

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SCALE HORIZ. FEET

LEGEND

- SCF — SILT FENCE
- RFD — ROCK FILTER DAM
- ECL — EROSION CONTROL LOG
- X — TREE PROTECTION FENCING
- TRAFFIC DIRECTION
- FEMA 100-YR FP — EXISTING & PROPOSED FEMA/CITY 100 YR FLOODPLAIN
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- CRITICAL WATER QUALITY ZONE
- CREEK CENTERLINE
- SODDING/VEGETATION

*SEE GENERAL NOTES SHEETS FOR EROSION AND SEDIMENTATION CONTROL NOTES

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

EROSION AND SEDIMENTATION CONTROL PLAN
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WILLIAMSON COUNTY ROAD BOND PROGRAM

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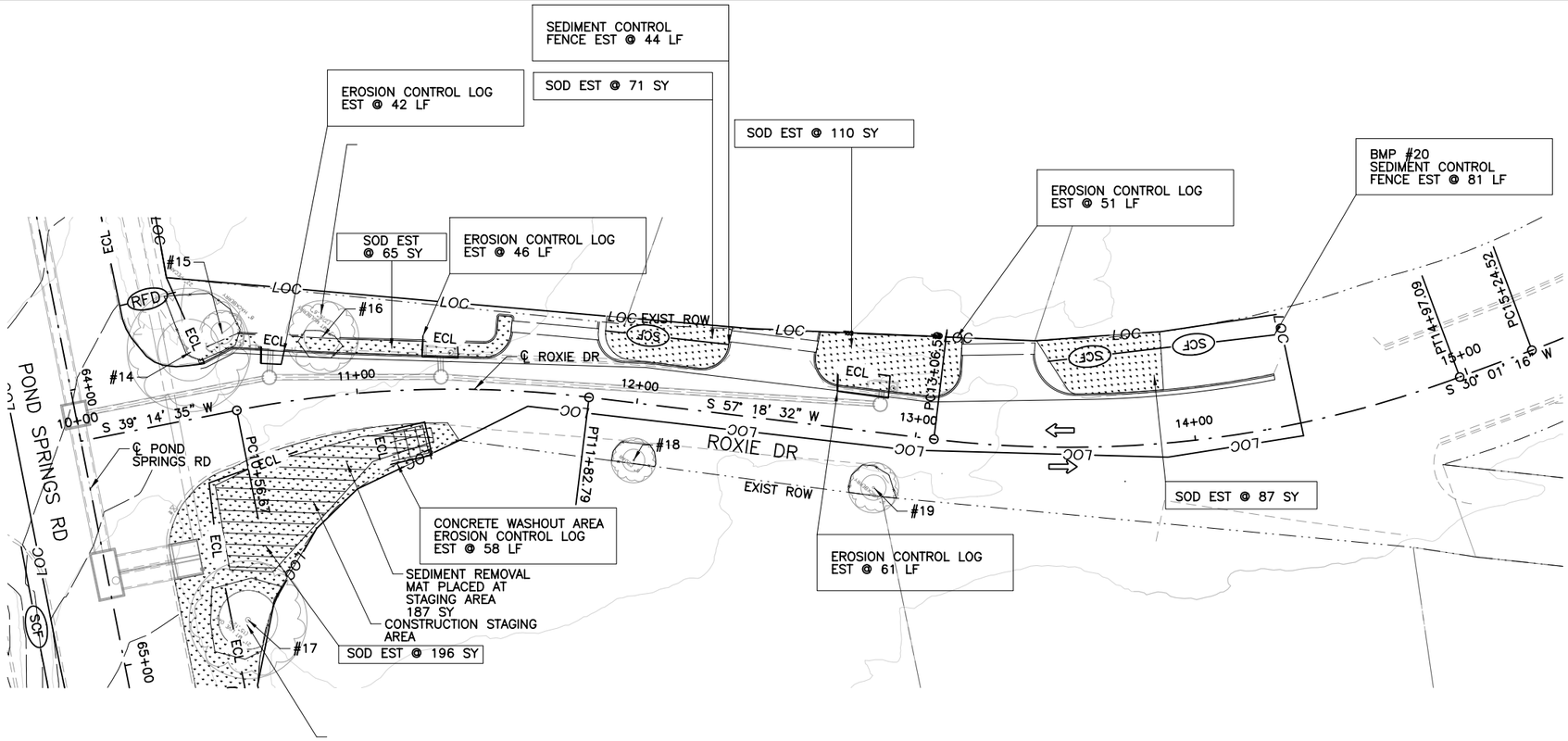

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13062 1/2 POND SPRINGS RD

EROSION AND SEDIMENTATION CONTROL PLAN

WILLIAMSON COUNTY ROAD BOND PROGRAM

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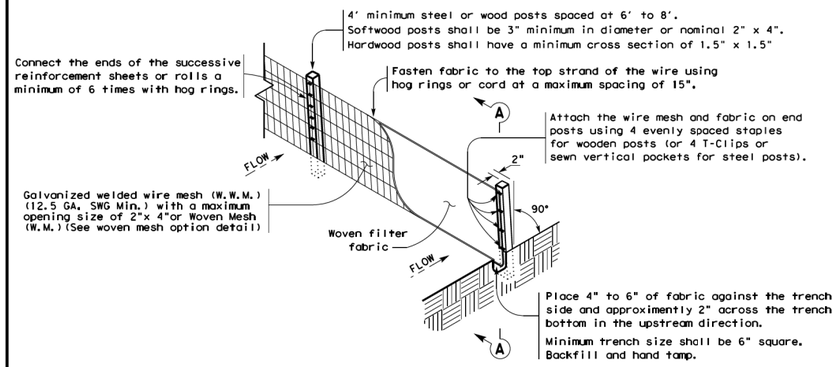
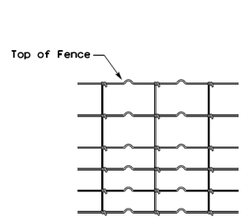
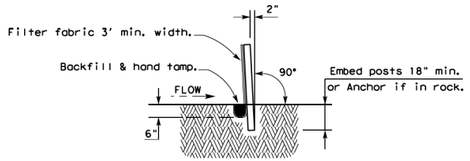


TEMPORARY SEDIMENT CONTROL FENCE

SCF





SECTION A-A

HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

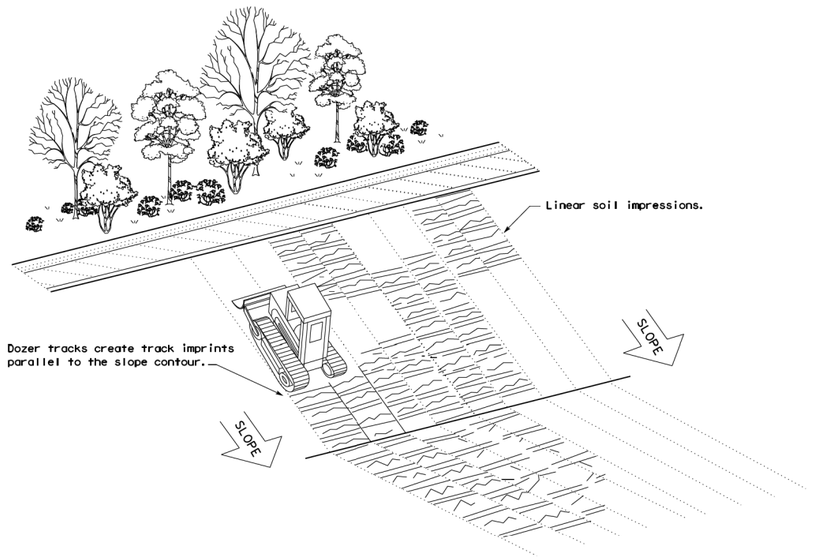
LEGEND

Sediment Control Fence

SCF

GENERAL NOTES

1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
2. Perform vertical tracking on slopes to temporarily stabilize soil.
3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
4. Do not exceed 12" between track impressions.
5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING

Texas Department of Transportation — Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCE & VERTICAL TRACKING

EC(1)-16

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

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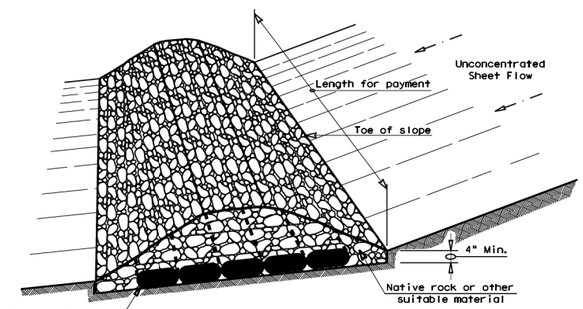
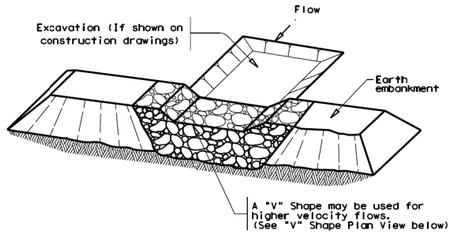


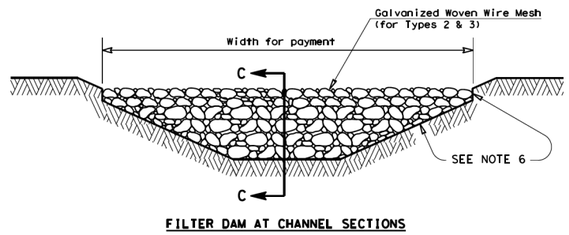
FILTER DAM AT TOE OF SLOPE

RFD1



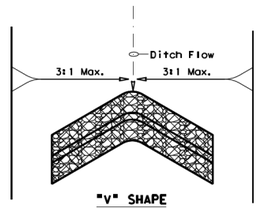
FILTER DAM AT SEDIMENT TRAP

RFD1 OR RFD2

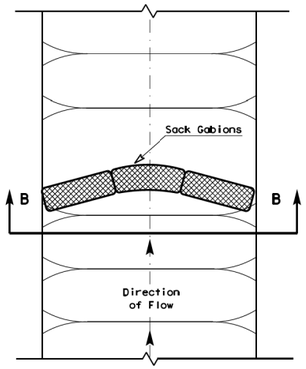


FILTER DAM AT CHANNEL SECTIONS

RFD1 OR RFD2 OR RFD3

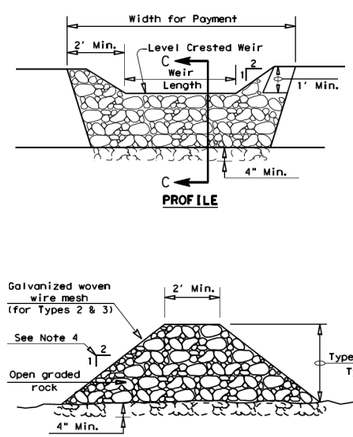


"V" SHAPE PLAN VIEW



PLAN VIEW

SECTION B-B



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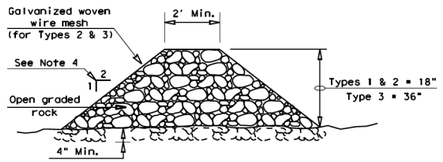
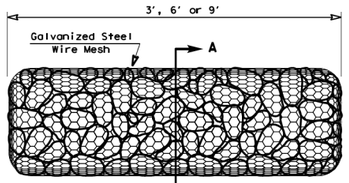
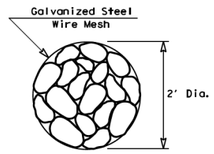


SECTION C-C



TYPE 4 (SACK GABIONS)

RFD4



SECTION A-A

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with ¾" dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of 2 ½" x 3 ¼"
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT^2 of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh) (3" to 6" aggregate): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approximently 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh) (3" to 6" aggregate): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh) (4" to 8" aggregate): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions) (3" to 6" aggregate): Type 4 May be used in ditches and smaller channels to form an erosion control dam.

Type 5: Provide rock filter dams as shown on plans.

PLAN SHEET LEGEND

Type 1 Rock Filter Dam — RFD1
Type 2 Rock Filter Dam — RFD2
Type 3 Rock Filter Dam — RFD3
Type 4 Rock Filter Dam — RFD4

Texas Department of Transportation — Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

ROCK FILTER DAMS

EC(2)-16

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

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SHEET 1 OF 1

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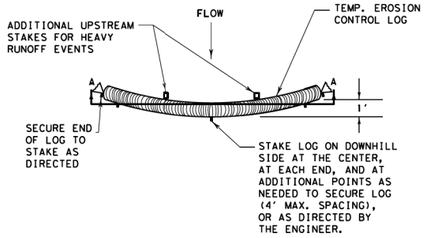
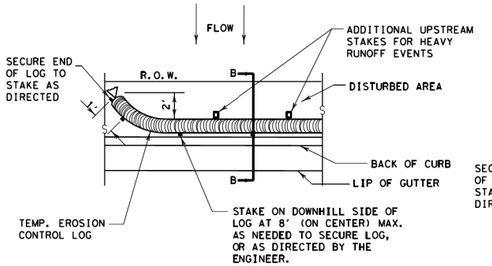
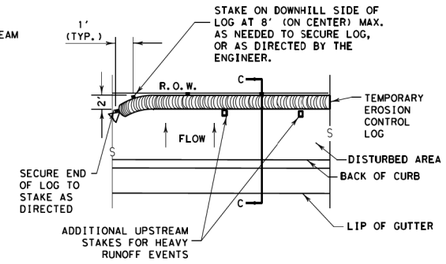


PLAN VIEW



PLAN VIEW



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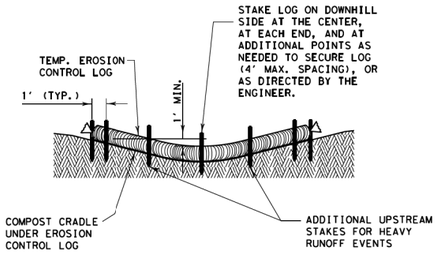
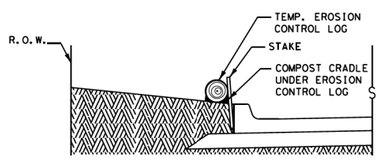


SECTION A-A

EROSION CONTROL LOG DAM

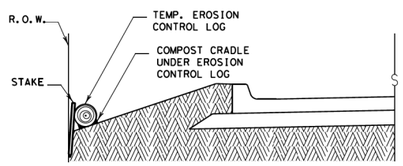
CL-D



SECTION B-B

EROSION CONTROL LOG AT BACK OF CURB

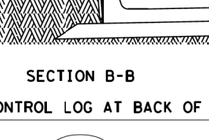
CL-BOC



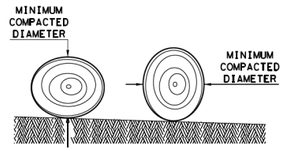
SECTION C-C

EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY

CL-ROW



REBAR STAKE DETAIL



DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS

LEGEND

CL-D	EROSION CONTROL LOG DAM
CL-BOC	EROSION CONTROL LOG AT BACK OF CURB
CL-ROW	EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY
CL-SST	EROSION CONTROL LOGS ON SLOPES STAKE AND TRENCHING ANCHORING
CL-SSL	EROSION CONTROL LOGS ON SLOPES STAKE AND LASHING ANCHORING
CL-DI	EROSION CONTROL LOG AT DROP INLET
CL-CI	EROSION CONTROL LOG AT CURB INLET
CL-GI	EROSION CONTROL LOG AT CURB & GRATE INLET

GENERAL NOTES:

1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE ENGINEER.
2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
3. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
7. COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
8. SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT SIZE TO HOLD LOGS IN PLACE.
9. TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.

SEDIMENT BASIN & TRAP USAGE GUIDELINES

An erosion control log sediment trap may be used to filter sediment out of runoff draining from an unstabilized area.

Log Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Control logs should be placed in the following locations:

1. Within drainage ditches spaced as needed or min. 500' on center
2. Immediately preceding ditch inlets or drain inlets
3. Just before the drainage enters a water course
4. Just before the drainage leaves the right of way
5. Just before the drainage leaves the construction limits where drainage flows away from the project.

The logs should be cleaned when the sediment has accumulated to a depth of 1/2 the log diameter.

Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.

SHEET 1 OF 3

Texas Department of Transportation | Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC(9)-16

FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS	
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REVISIONS	DIST	COUNTY		SHEET NO.	

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STATE OF TEXAS
BRADLEY MCCONNON
134748
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

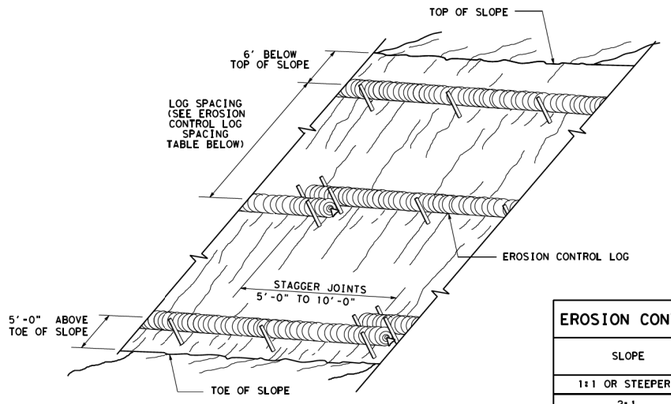
ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	72 OF 103

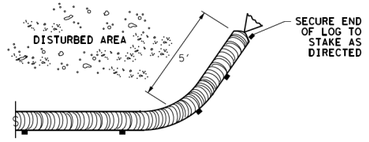
SHEET 1 OF 3

SP-2024-0324D



EROSION CONTROL LOGS ON SLOPES
STAKE AND TRENCHING ANCHORING

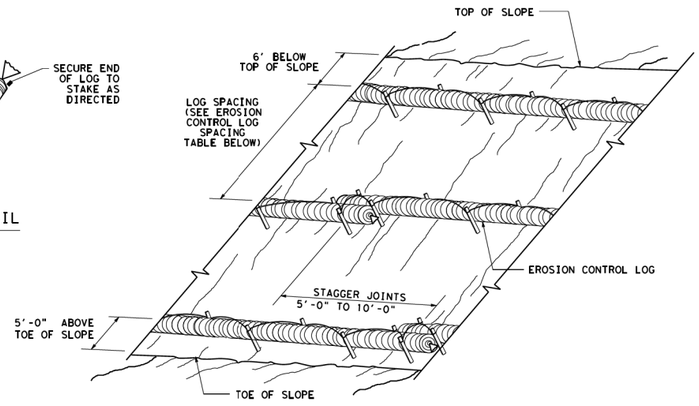
CL-SST



END SECTION RAP DETAIL

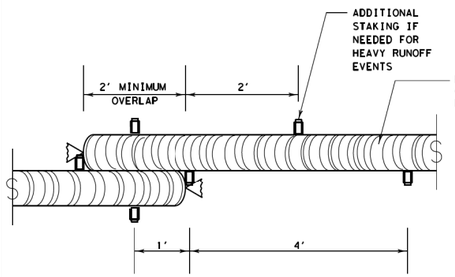
EROSION CONTROL LOG SPACING TABLE				
SLOPE	LOG DIAMETER			
	6"	8"	12"	18"
1:1 OR STEEPER	5'	10'	15'	20'
2:1	10'	20'	30'	40'
3:1	15'	30'	45'	60'
4:1 OR FLATTER	20'	40'	60'	80'

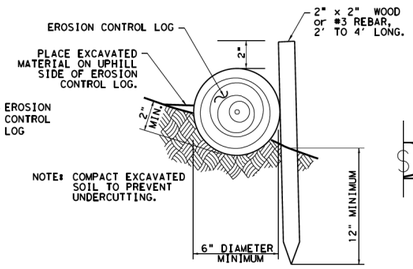
* ADJUSTMENTS CAN BE MADE FOR SOIL TYPE:
SOFT, LOAMY SOILS-ADJUST ROWS CLOSER TOGETHER;
HARD, ROCKY SOILS- ADJUST ROWS FARTHER APART



EROSION CONTROL LOGS ON SLOPES
STAKE AND LASHING ANCHORING

CL-SSL

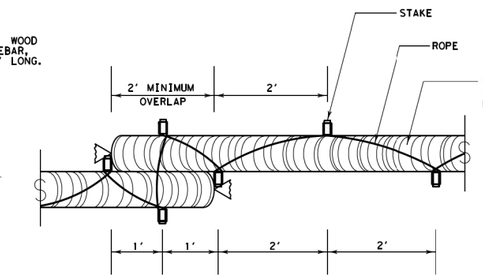




STAKE AND TRENCHING ANCHORING DETAIL

CL-SST

TRENCH DEPTH TABLE	
LOG DIAMETER	DEPTH
6"	2"
8"	3"
12"	4"
18"	5"



STAKE AND LASHING ANCHORING DETAIL

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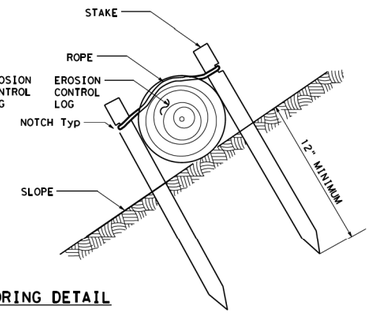

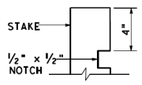

STAKE NOTCH DETAIL

SHEET 2 OF 3

Texas Department of Transportation — Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC(9)-16

FILE: ec116	DW: TxDOT	CK: KM	DW: LS/PT	CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
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	DIST	COUNTY		SHEET NO.

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STATE OF TEXAS
BRADLEY MCCONNON
103741
LICENSED PROFESSIONAL ENGINEER
04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	73 OF 103

SP-2024-0324D

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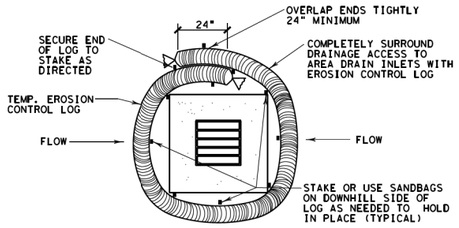
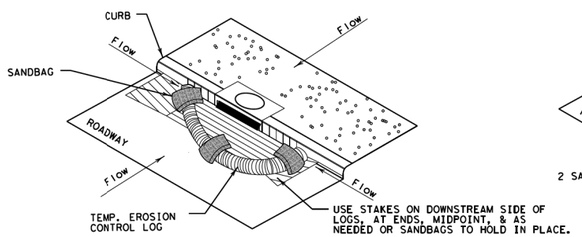


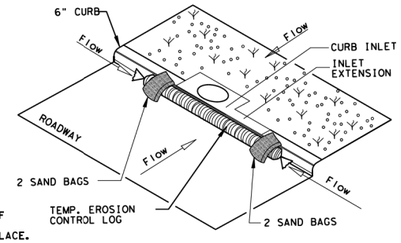
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

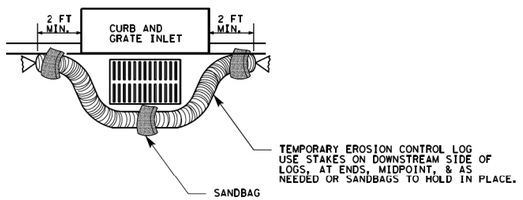
CL-CI



EROSION CONTROL LOG AT CURB INLET

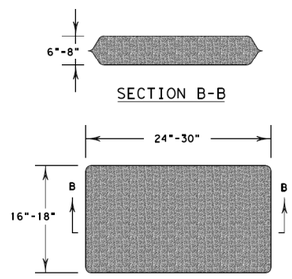
CL-CI

NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



EROSION CONTROL LOG AT CURB & GRADE INLET

CL-GI



SANDBAG DETAIL

SHEET 3 OF 3

Texas Department of Transportation — Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

ROADWAY STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	74 OF 103

SHEET 3 OF 3

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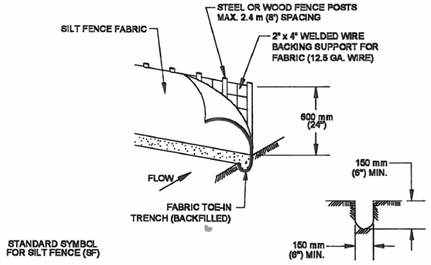


STANDARD SYMBOL
FOR SILT FENCE (SF)

SF

TRENCH CROSS SECTION

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

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

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

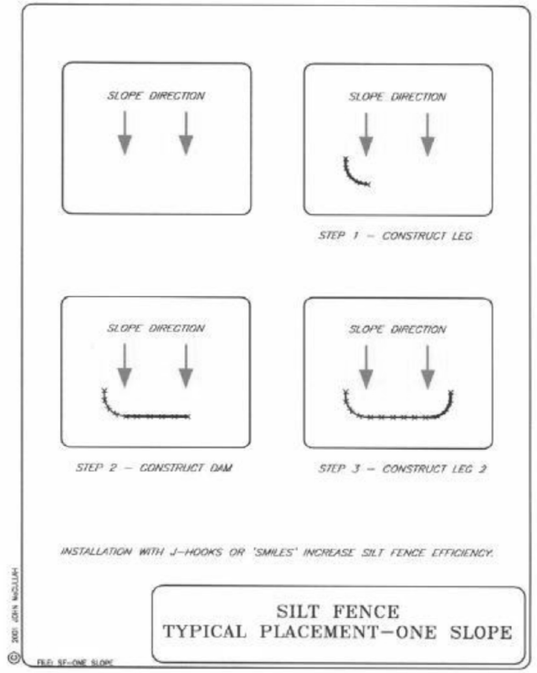
4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE , WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.

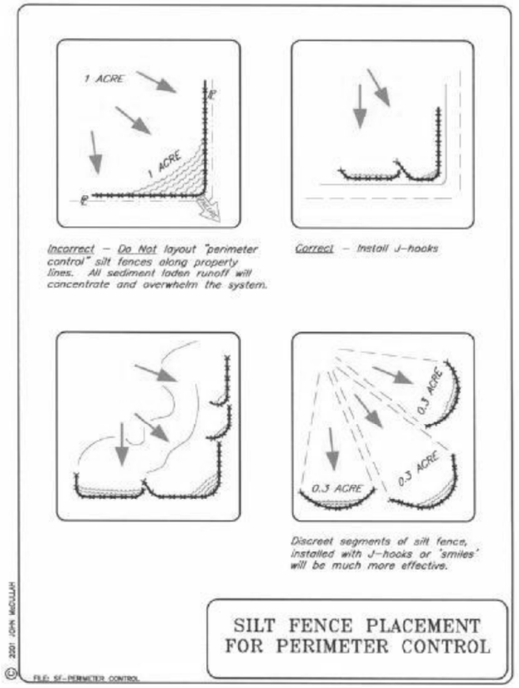
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.

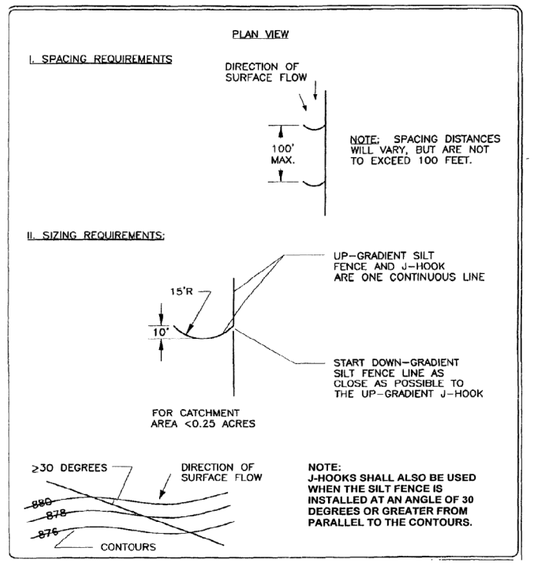
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

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

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	SILT FENCE	
9/1/2011 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1







STATE OF TEXAS
ANTHONY J SERDA
106309
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON
CITY APPROVAL

NO.	REVISION	BY	DATE

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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

EROSION AND SEDIMENTATION CONTROL STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	MRR	Designed:	MRR	STATE	COUNTY	SHEET NO.
Checked:	AJS	Checked:	AJS	TEXAS	WILLIAMSON	75 OF 103

SHEET 1 OF 3

SP–2024–0324D

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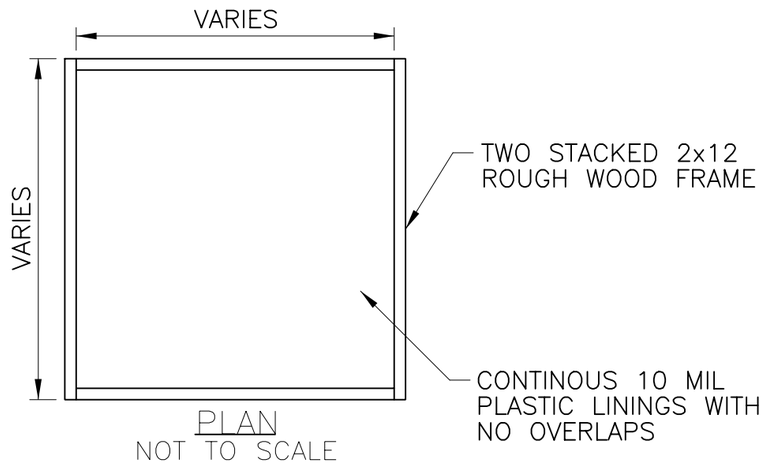
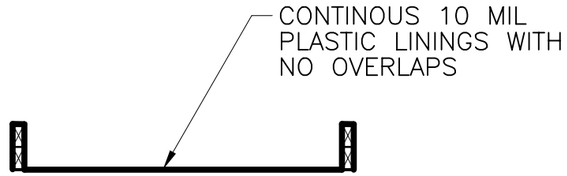


PLAN
NOT TO SCALE



SECTION A
NOT TO SCALE

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE SIZE OF THE CONCRETE WASHOUT SHALL BE DETERMINED BY THE ANTICIPATED AMOUNT OF CONCRETE WASTE TO BE STORED.
3. THE PLASTIC LININGS MUST BE A CONTINOUS SHEET WITH NO OVERLAPS.

STATE OF TEXAS
ANTHONY J. SERDA
106309
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04/24/2025

SEAL EFFECTIVE UPON
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POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

CONCRETE WASHOUT STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn: MEB	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	76 OF 103

SHEET 2 OF 3

SP-2024-0324D

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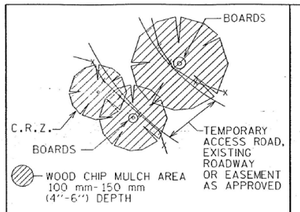
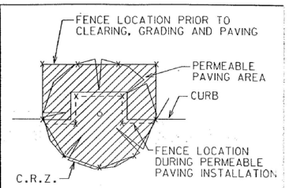
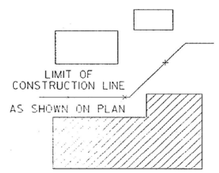


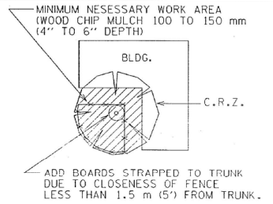
LINEAR CONSTRUCTION THROUGH TREES



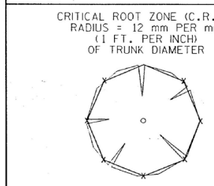
TREES IN PAVING AREA



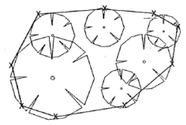
NATURAL AREAS



TREES NEAR CONSTRUCTION ACTIVITY

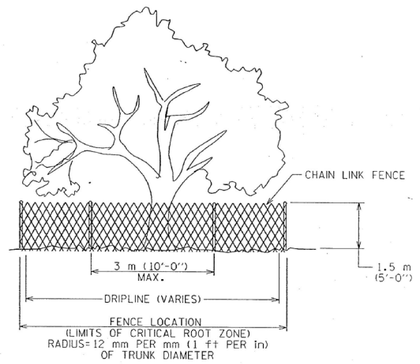


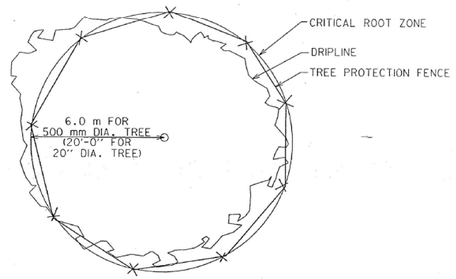
INDIVIDUAL TREE



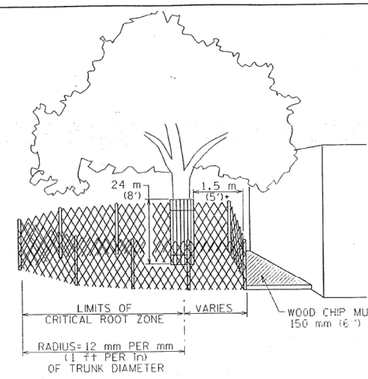
GROUP OF TREES

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE LOCATIONS	
ADOPTED 11/15/22	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-1

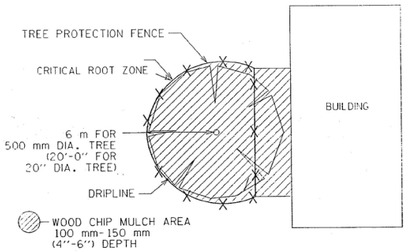




CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROPTECTION FENCE TYPE A - CHAIN LINK	
ADOPTED 11/15/22	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-2



•AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE. IF LESS THAN 1.5 m (5'), THEN ADD BOARDS STRAPPED TO TRUNK.



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE MODIFIED TYPE A - CHAIN LINK	
ADOPTED 11/15/22	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-4

STATE OF TEXAS
ANTHONY J. SERDA
103030
LICENSED
PROFESSIONAL ENGINEER

04/24/2025

SEAL EFFECTIVE UPON CITY APPROVAL

NO.	REVISION	BY	DATE

WILCO TEXAS

CP&Y an STV Company
TEXAS REGISTERED ENGINEERING FIRM F-1741

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
13062 1/2 POND SPRINGS RD

TREE PROTECTION FENCE
STANDARD DETAILS

WILLIAMSON COUNTY ROAD BOND PROGRAM

Drawn:	Designed:	STATE	COUNTY	SHEET NO.
Checked:	Checked:	TEXAS	WILLIAMSON	77 OF 103

SHEET 3 OF 3

SP-2024-0324D

cpybw_ANSIB.tbl
cpypdf_ANSIB.pltcfg
pw:/
4/24/2025 8:43:06 PM McConnBA
pw:/

NOTES:

1. THE UTILITY INFORMATION SHOWN IS PROVIDED BY OTHERS AND IS REPRESENTATIVE. THIS INFORMATION WAS OBTAINED SOLELY FOR THE USE OF THE ENGINEERING DESIGN OF THE PROJECT. THE ACCURACY AND SUFFICIENCY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LIMITS AND LOCATIONS PRIOR TO CONSTRUCTION.
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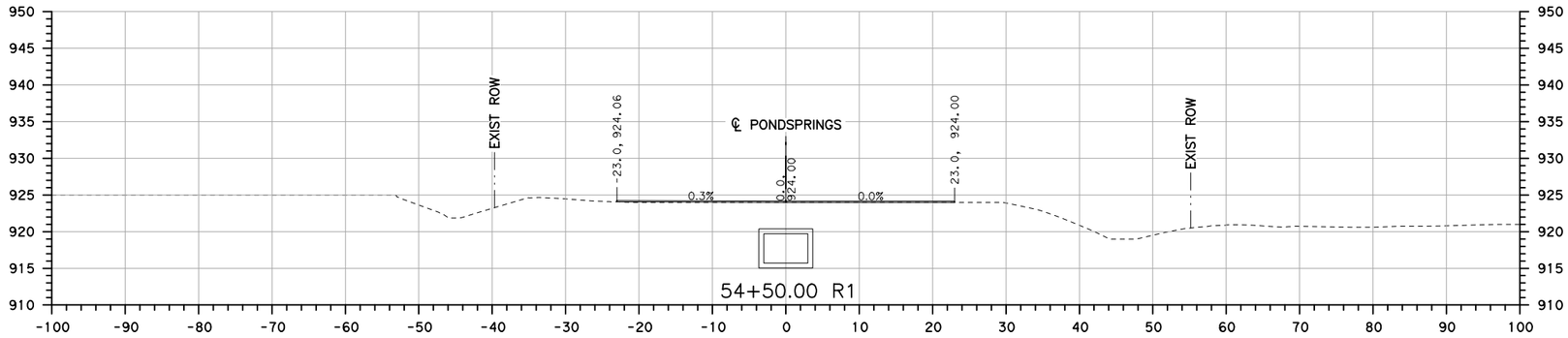
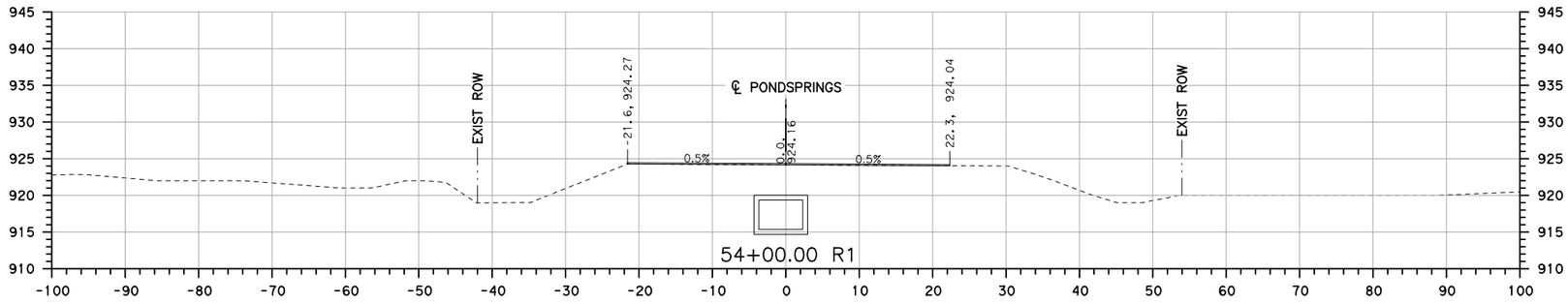
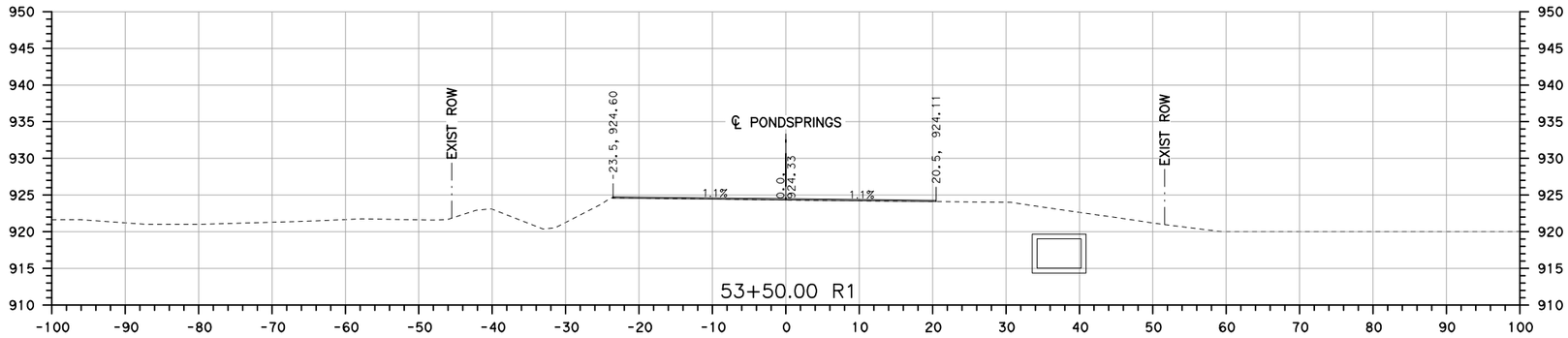
10 5 0 10 20
SCALE HORIZ. & VERT. FEET







CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson County 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 1 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	78

SP-2023-0224D

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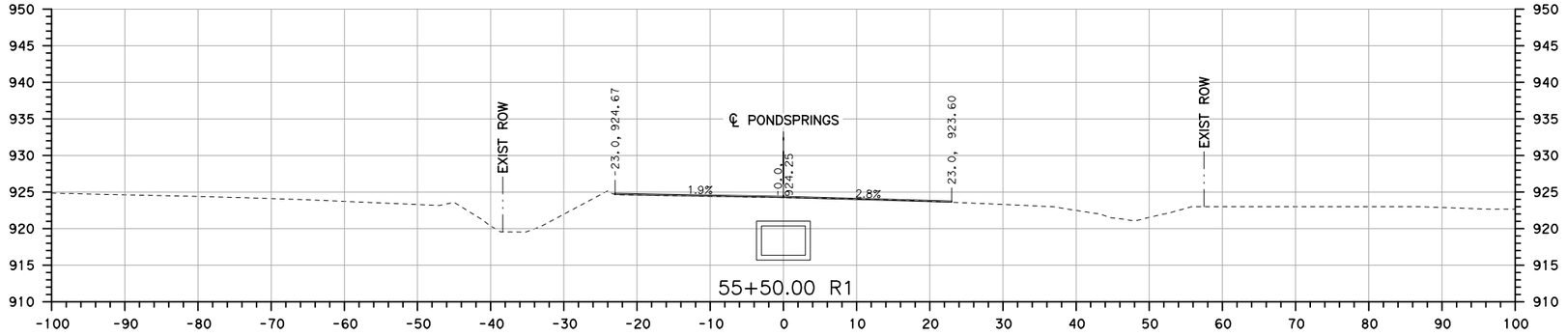

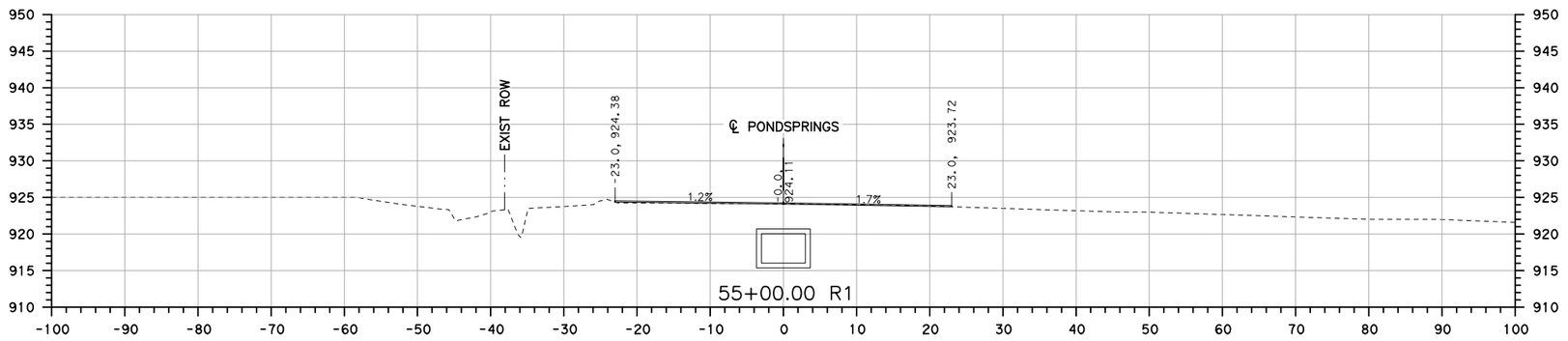

CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson COUNTY 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 2 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	79

SP-2023-0224D

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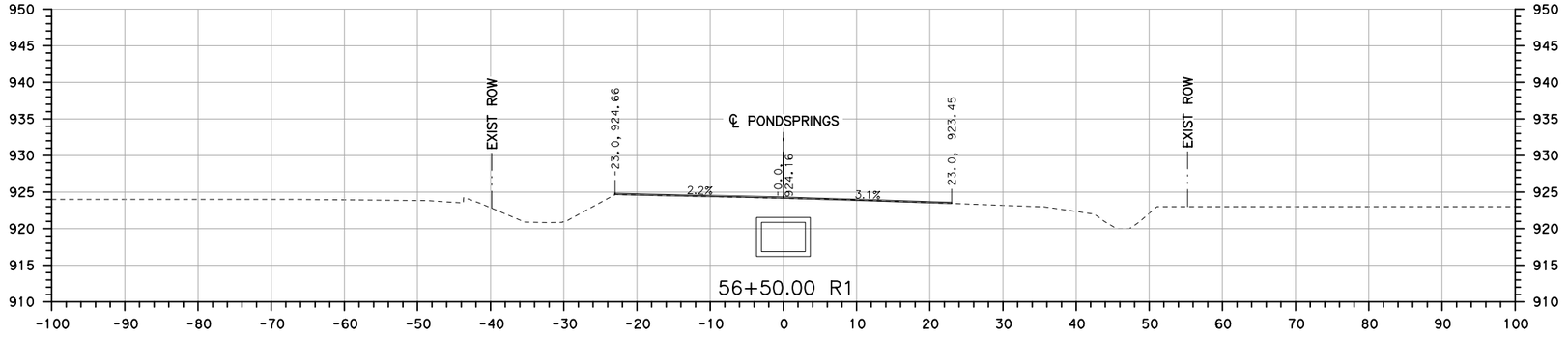

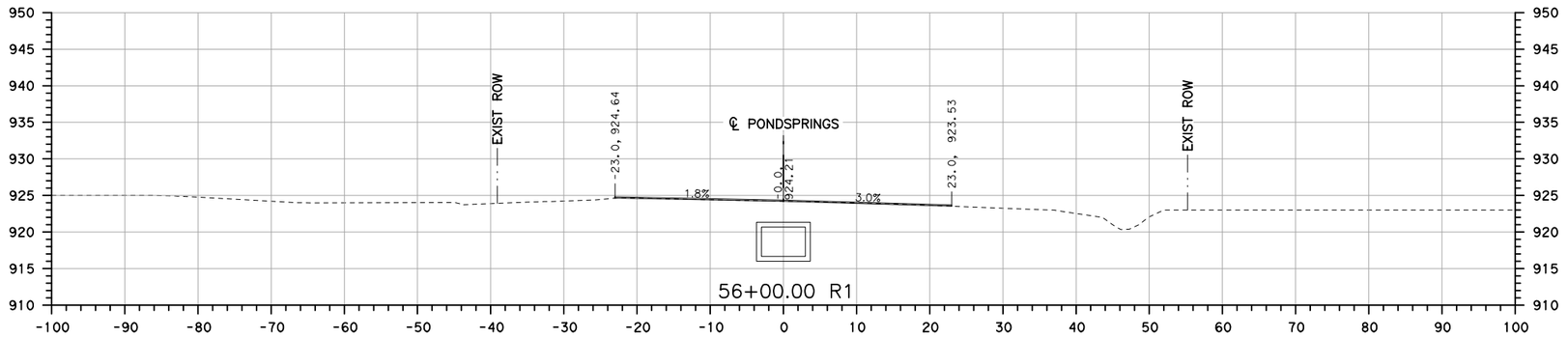

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TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson County 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 3 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	80

SP-2023-0224D

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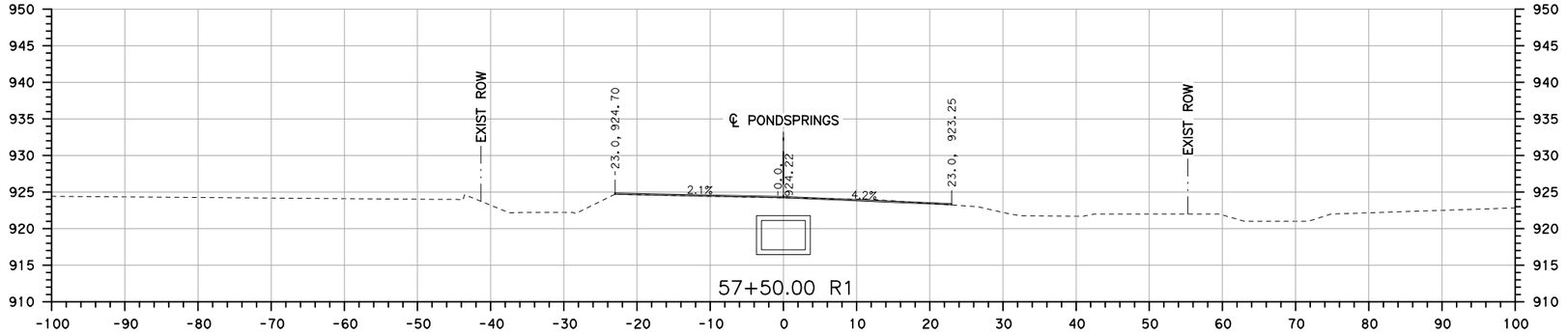

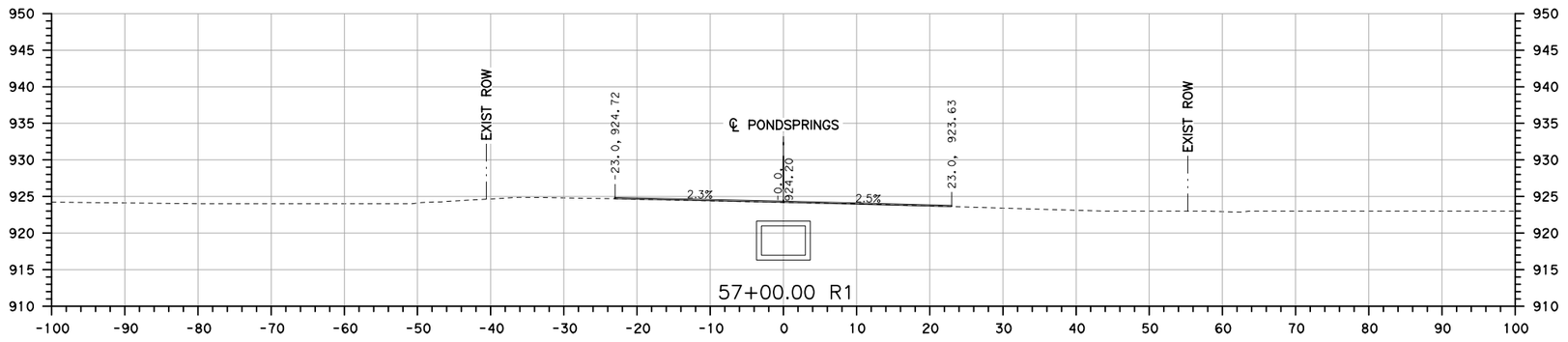

CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

WILLIAMSON COUNTY 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 4 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	81

SP-2023-0224D

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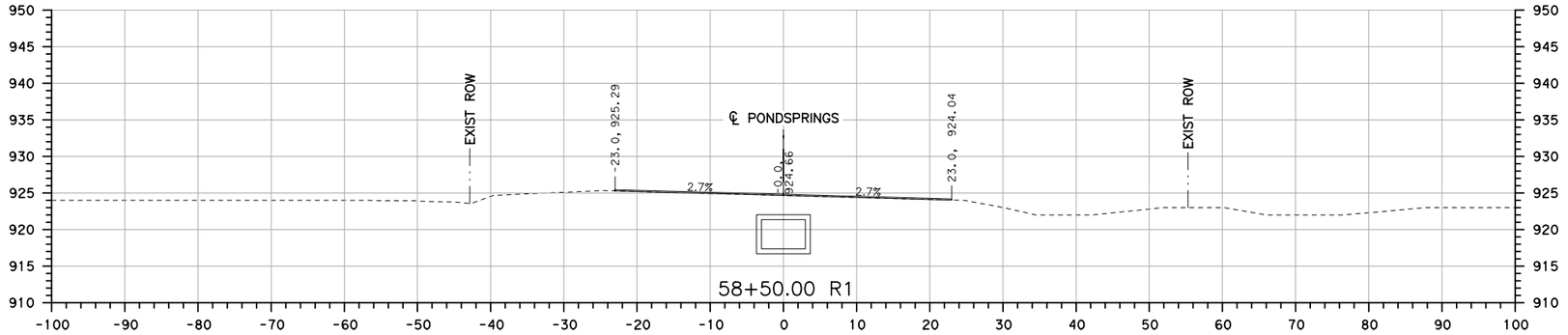

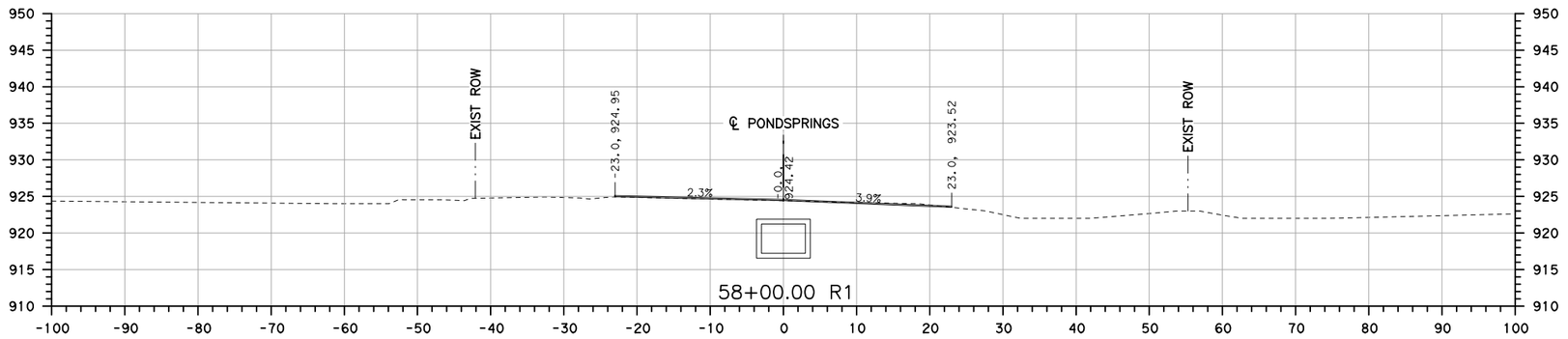

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TEXAS REGISTERED ENGINEERING FIRM F-1741

WILLIAMSON COUNTY 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 5 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	82

SP-2023-0224D

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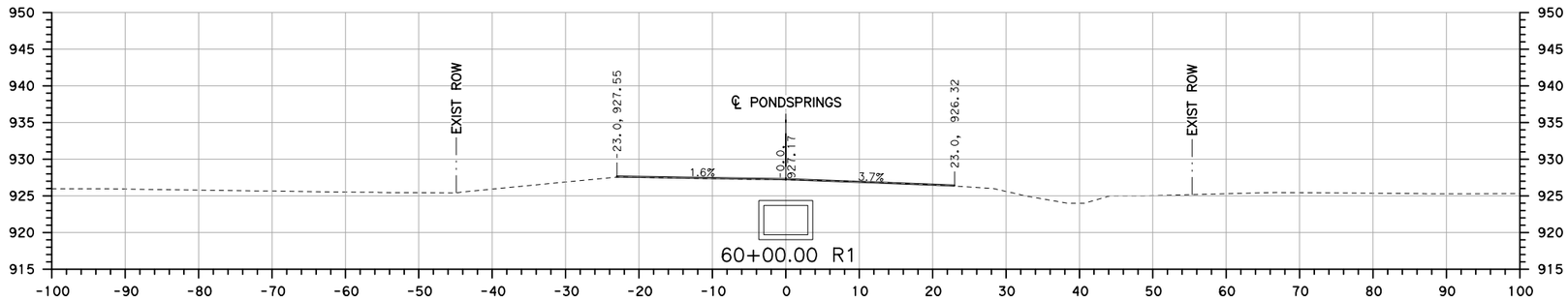

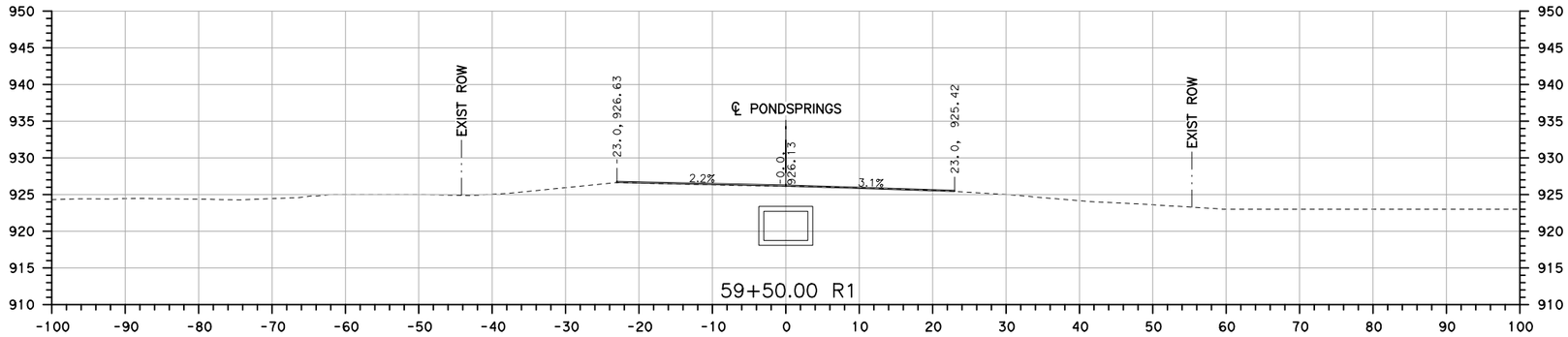

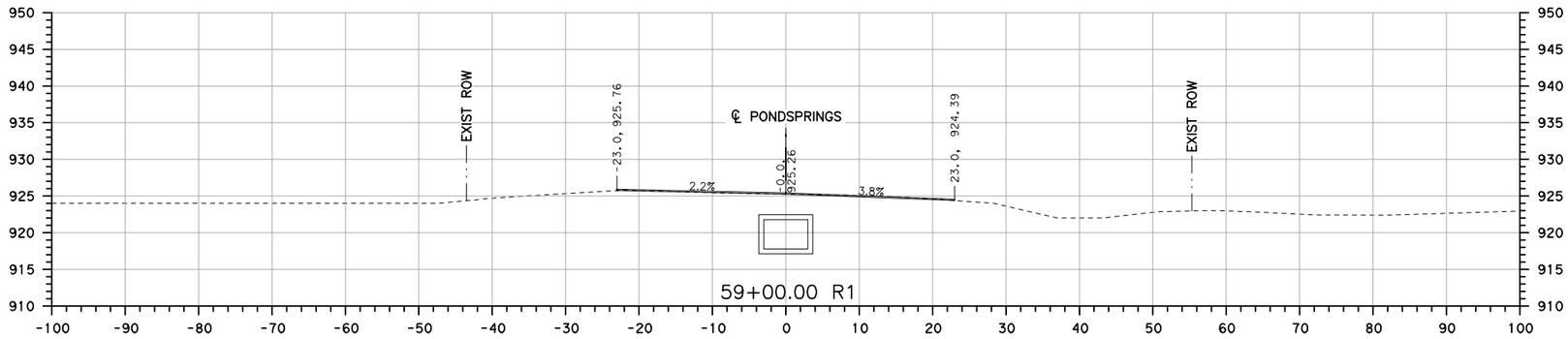

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TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson County 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 6 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	83

SP-2023-0224D

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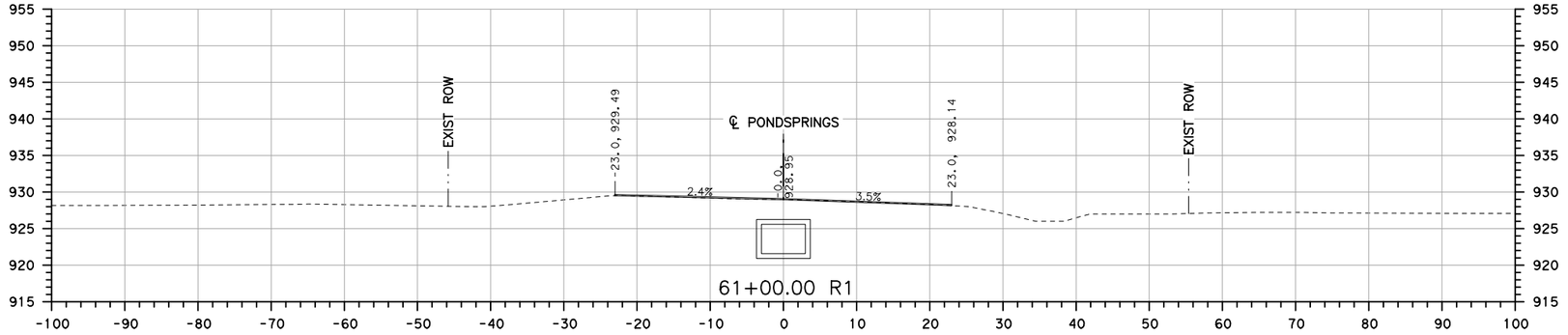

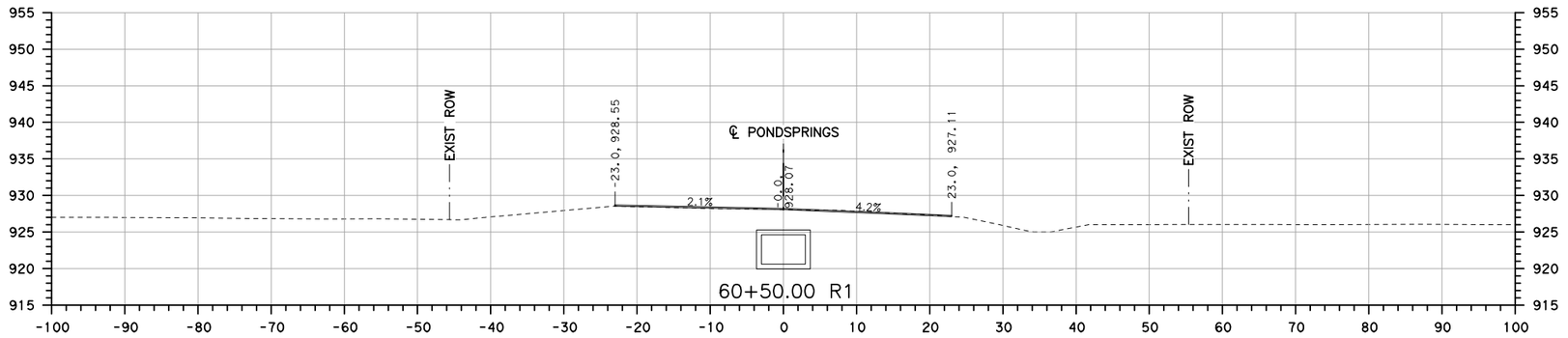

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TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson County 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 7 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	84

SP-2023-0224D

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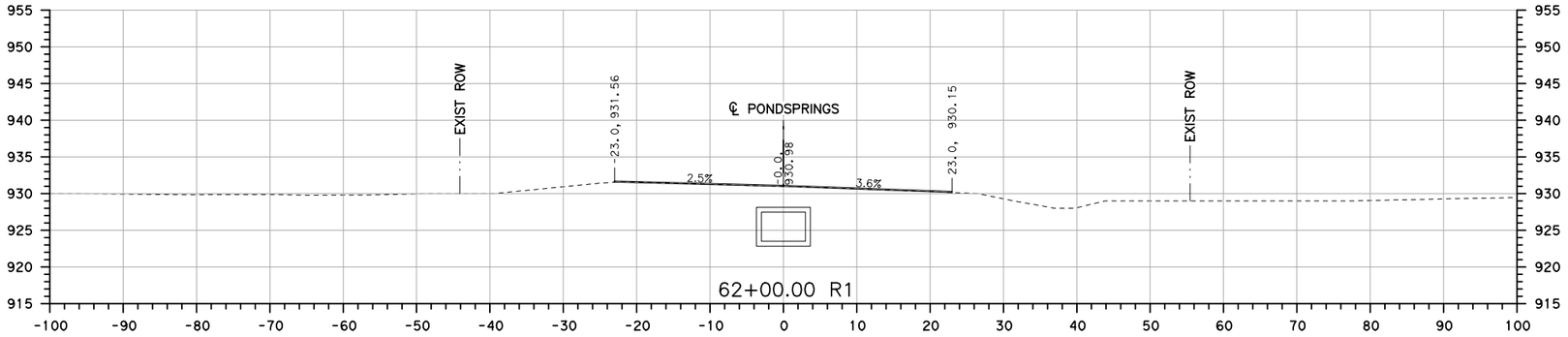

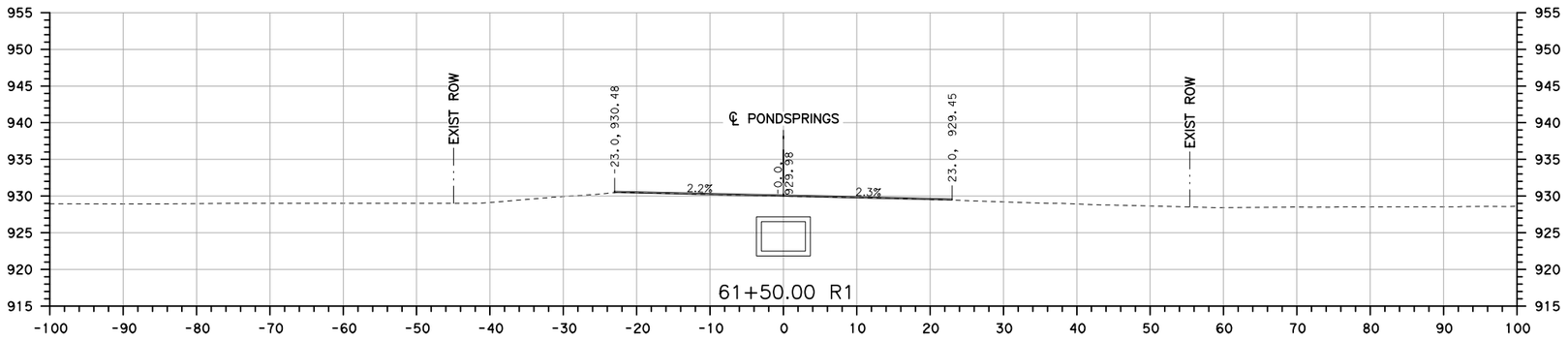

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TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson County 1848

POND SPRINGS ROAD – ROXIE DRIVE
CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 8 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	85

SP-2023-0224D

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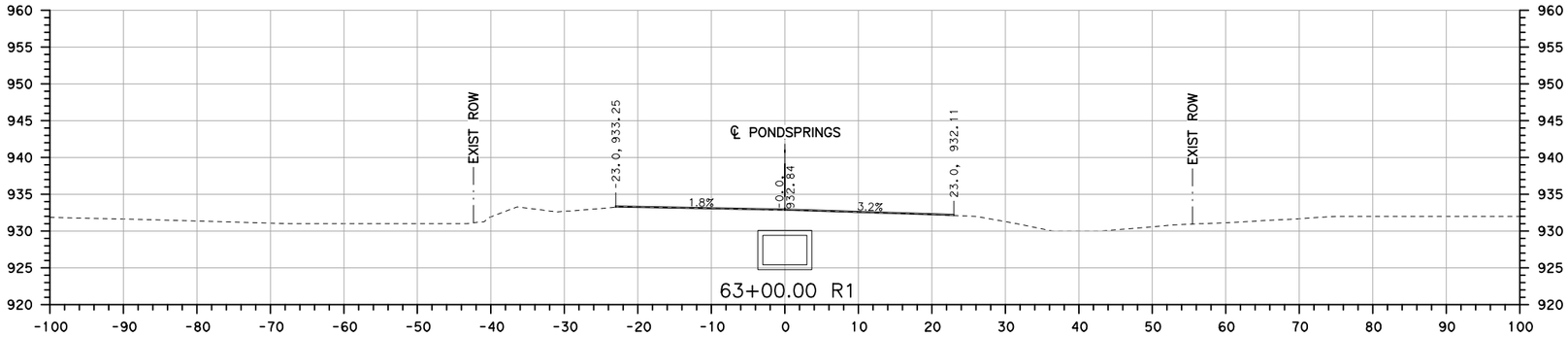

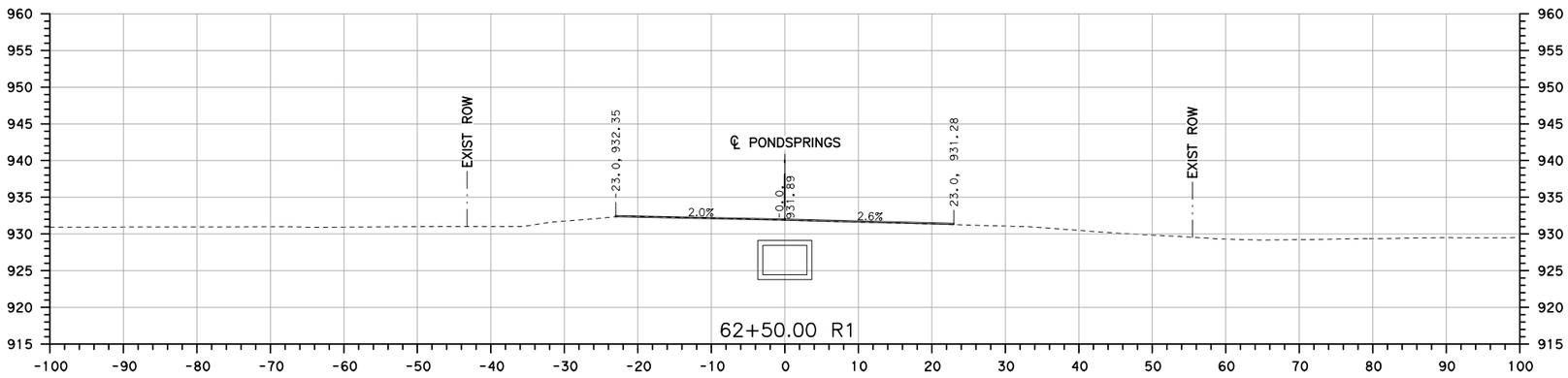

CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

WILLIAMSON COUNTY 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 9 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

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SP-2023-0224D

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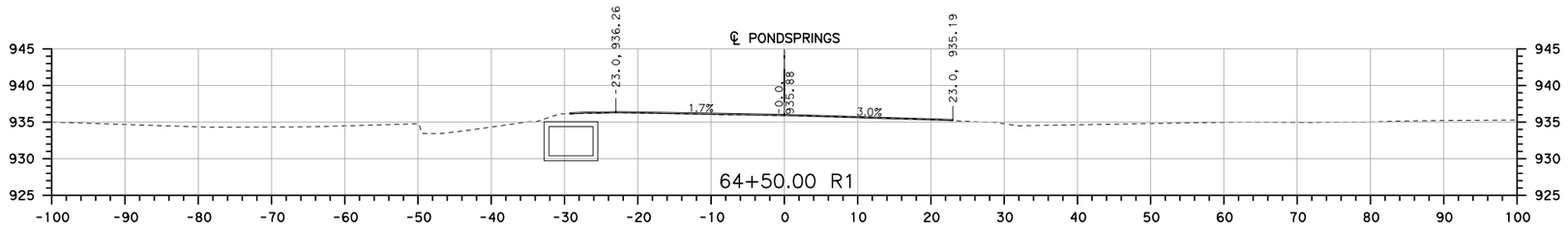

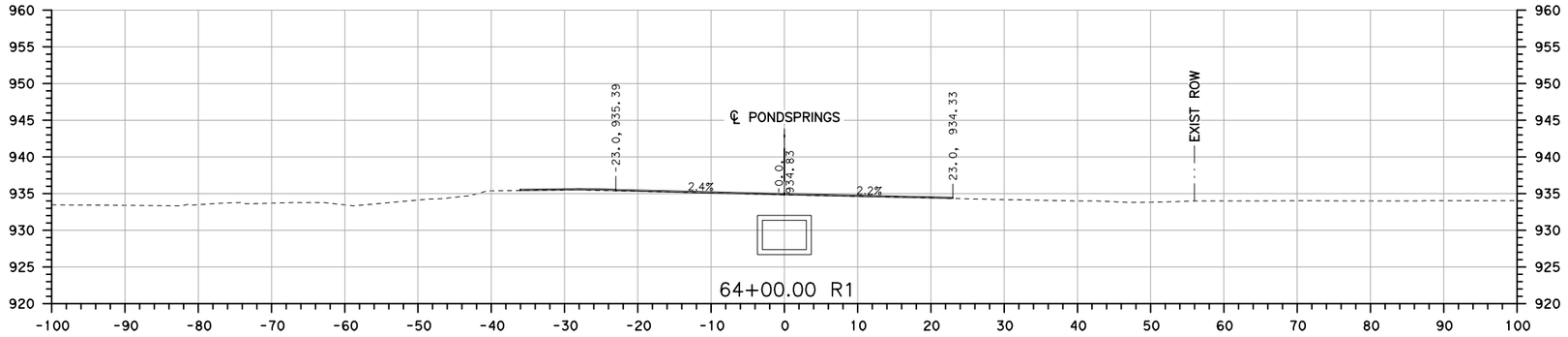

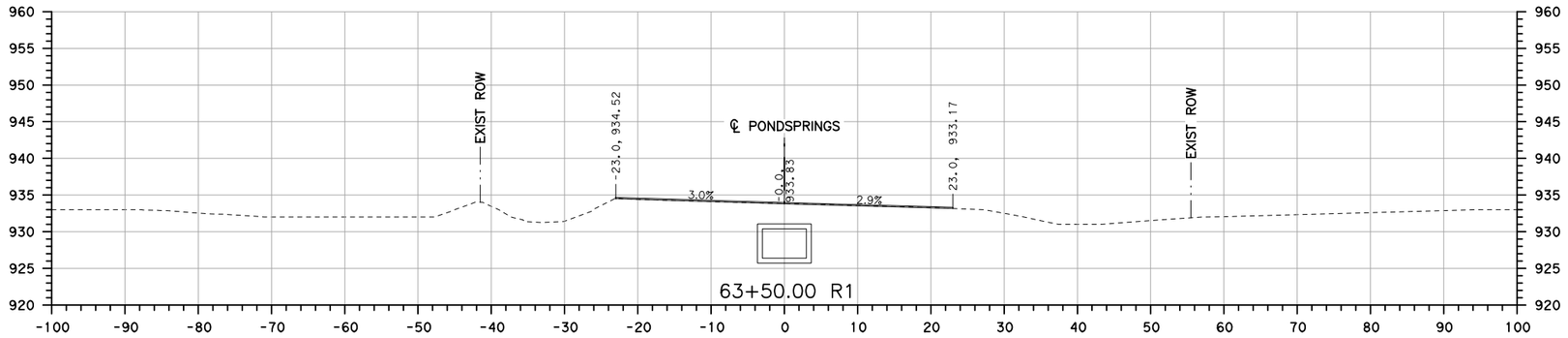

CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson County 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 10 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
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SP-2023-0224D

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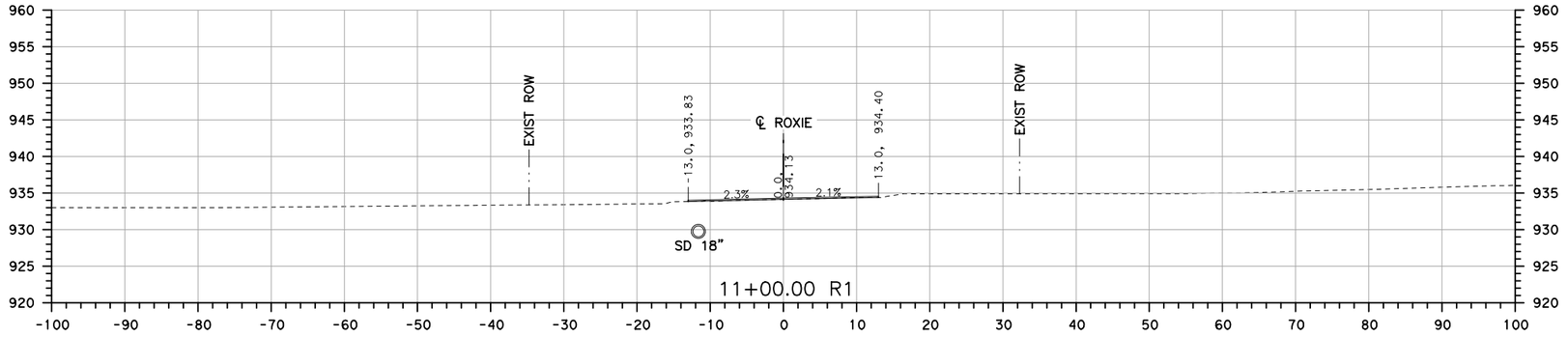

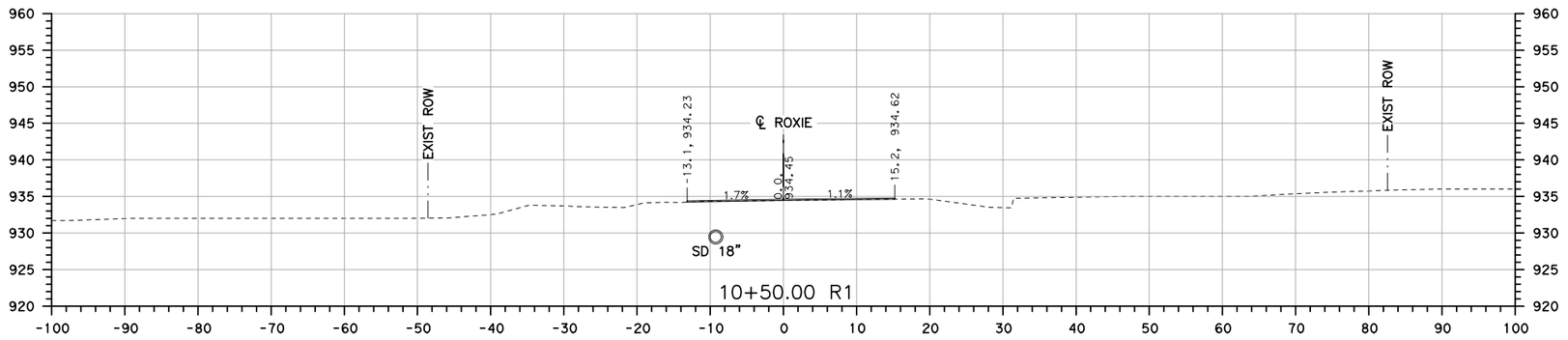

CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

WILLIAMSON COUNTY 1848

POND SPRINGS ROAD – ROXIE DRIVE
CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 11 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO:
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SP-2023-0224D

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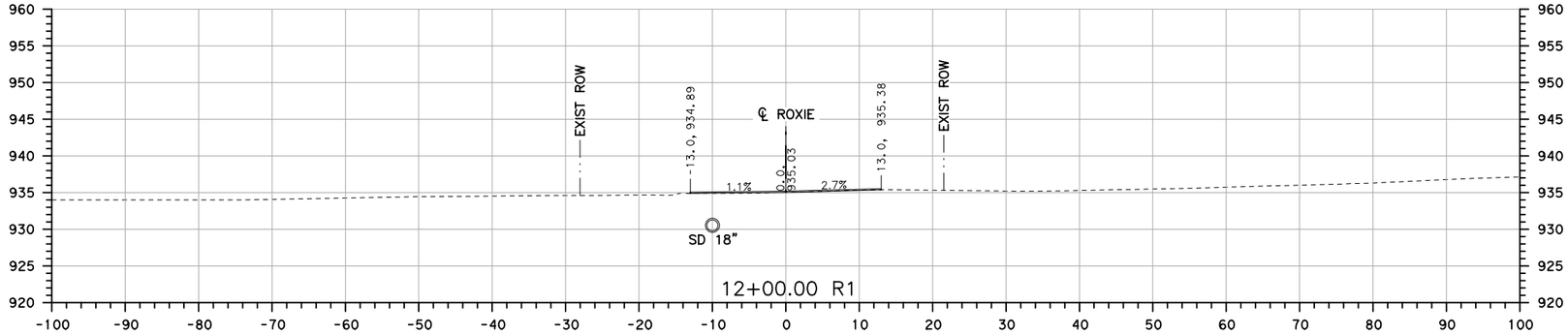
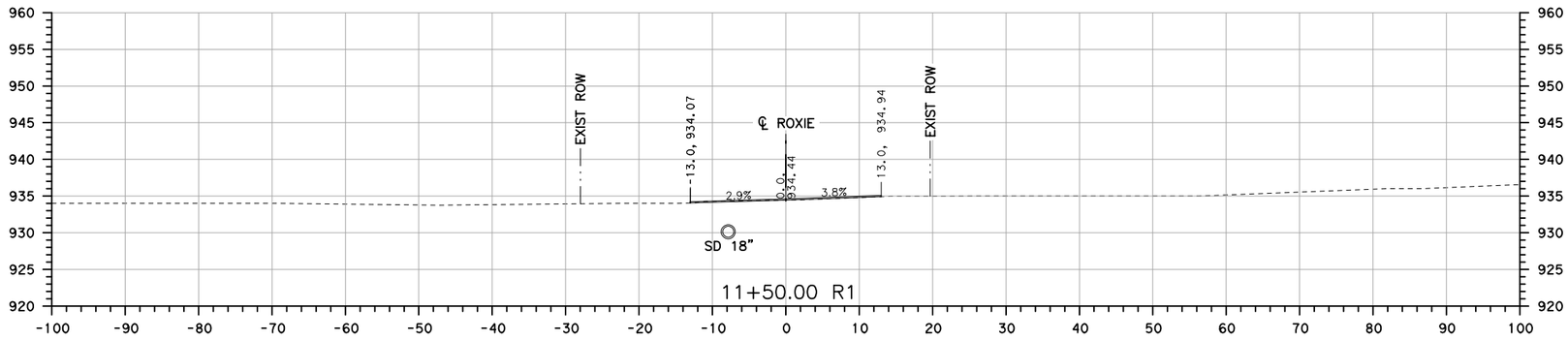




CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

WILLIAMSON COUNTY 1848

POND SPRINGS ROAD – ROXIE DRIVE
CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 12 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

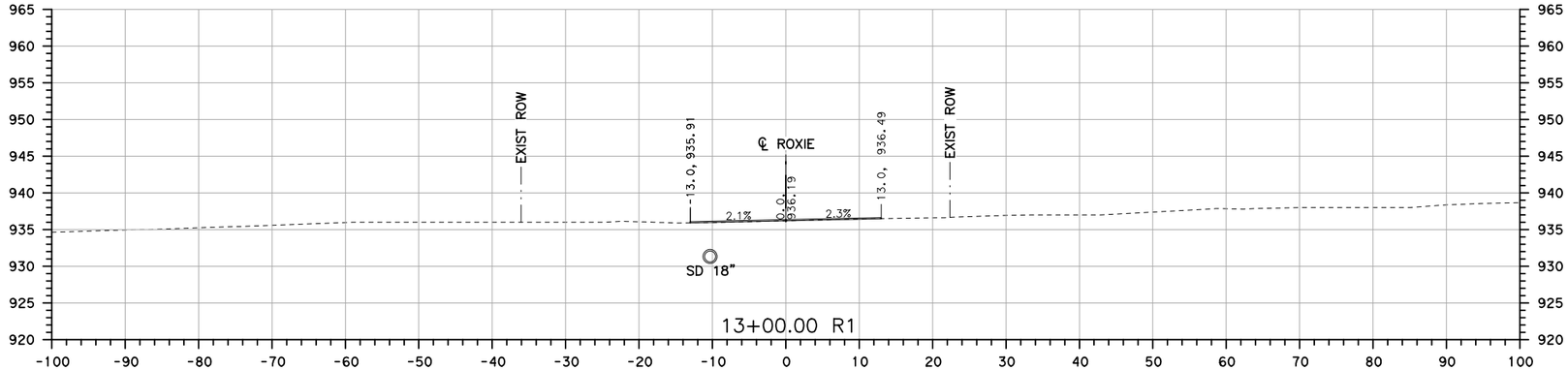
Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	89

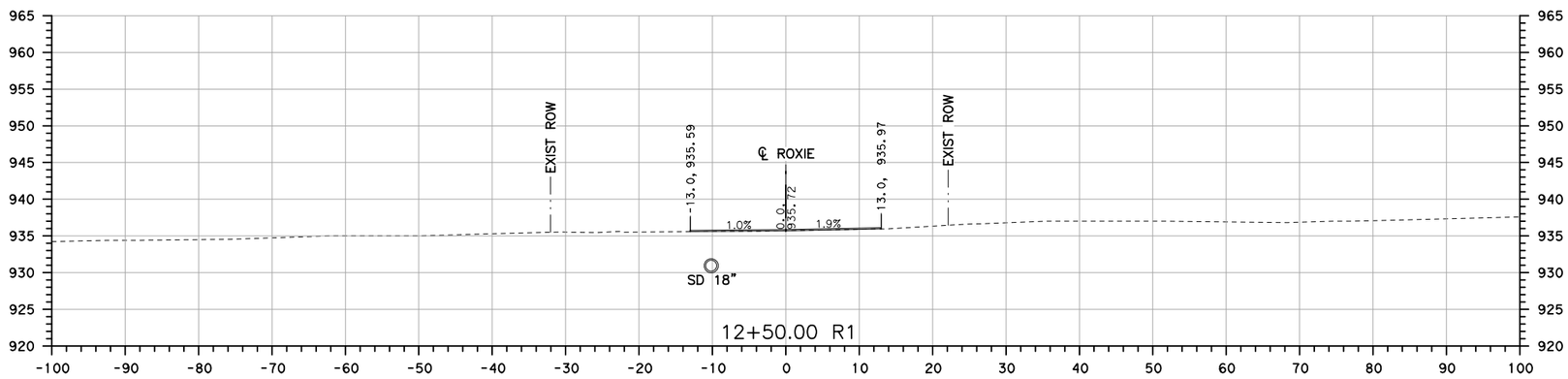
SP-2023-0224D

NOTES:

1. THE UTILITY INFORMATION SHOWN IS PROVIDED BY OTHERS AND IS REPRESENTATIVE. THIS INFORMATION WAS OBTAINED SOLELY FOR THE USE OF THE ENGINEERING DESIGN OF THE PROJECT. THE ACCURACY AND SUFFICIENCY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LIMITS AND LOCATIONS PRIOR TO CONSTRUCTION.
2. VERTICAL LOCATION OF UTILITIES IS APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

10 5 0 10 20
SCALE HORIZ. & VERT. FEET





CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson County 1848

POND SPRINGS ROAD – ROXIE DRIVE
CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 13 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	90

SP-2023-0224D

NOTES:

1. THE UTILITY INFORMATION SHOWN IS PROVIDED BY OTHERS AND IS REPRESENTATIVE. THIS INFORMATION WAS OBTAINED SOLELY FOR THE USE OF THE ENGINEERING DESIGN OF THE PROJECT. THE ACCURACY AND SUFFICIENCY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LIMITS AND LOCATIONS PRIOR TO CONSTRUCTION.
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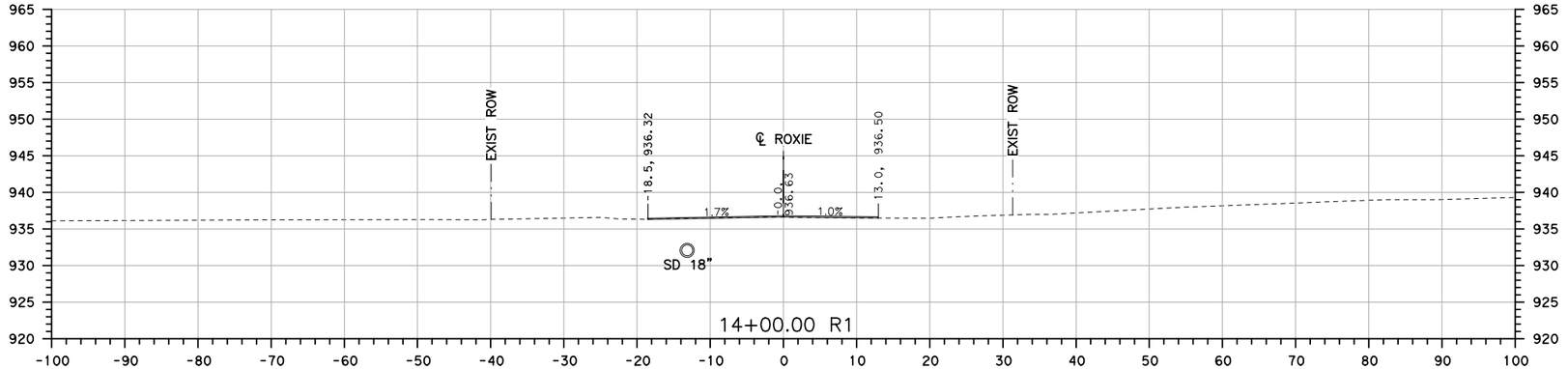
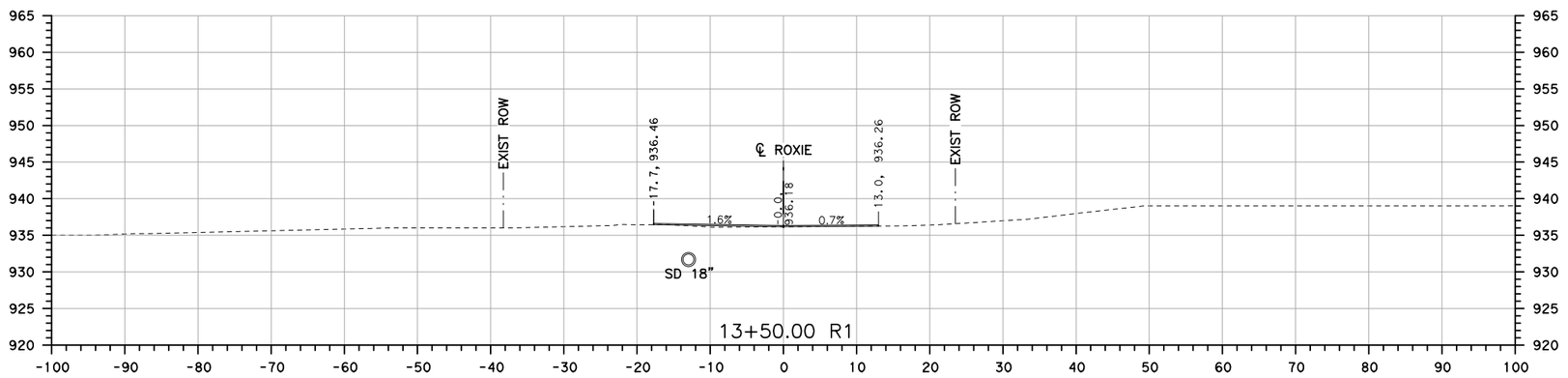
SCALE HORIZ. & VERT. FEET





CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

Williamson County 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 14 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	91

SP-2023-0224D

NOTES:

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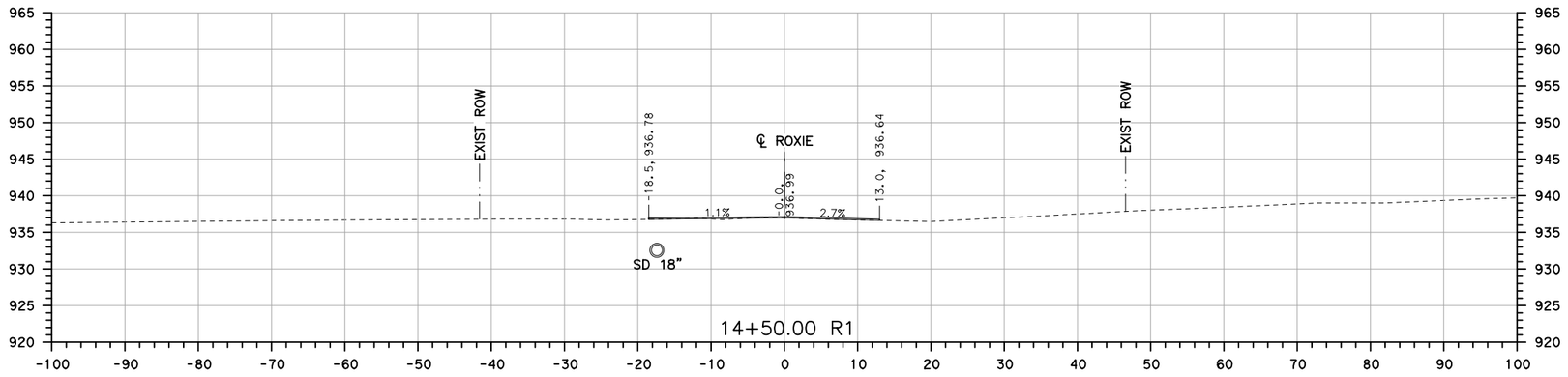
10 5 0 10 20
SCALE FEET
HORIZ. & VERT.



CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

WILLIAMSON COUNTY 1848

POND SPRINGS ROAD – ROXIE DRIVE

CROSS SECTIONS
(FOR CONTRACTORS INFORMATION ONLY)

SHEET 15 OF 15

POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
132062 1/2 POND SPRINGS RD

Drawn:	MM	Designed:	MM	STATE	COUNTY	SHEET NO.
Checked:	BJ	Checked:	QJ	TEXAS	WILLIAMSON	92

SP-2023-0224D

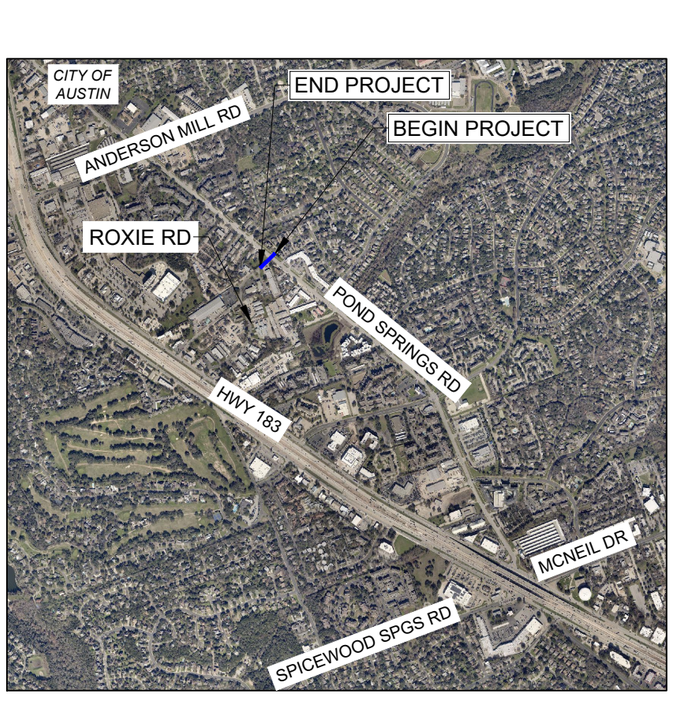
SUMMARY OF SHEET INDEX:

WILLIAMSON COUNTY
POND SPRINGS ROAD DRAINAGE IMPROVEMENTS
WATER LINE RELOCATIONS
100% DESIGN

TOTAL LENGTH OF PROJECT: 180 LF

PROJECT LIMITS: POND SPRINGS DRIVE FROM SCHICK ROAD TO ROXIE DRIVE

CONSTRUCTION OF 8" MAIN, AND 2” SERVICE WATER LINE INSTALLED VIA OPEN TRENCH, REQUIRED APPURTENANCES, AND CONNECTIONS TO THE EXISTING 8” WATER LINE.



VICINITY MAP
(NOT TO SCALE)

REV. NO.	REVISION DESCRIPTION	(C)ORRECT, (A)DD, (V)OID SHEET NUMBERS	APPR'D BY:	DATE

OWNER INFORMATION

OWNER:
AUSTIN WATER
625 E. 10TH ST
AUSTIN, TEXAS 78701

CONTACT:
WALE ODUFUYE, P.E.
512-974-7119

DESIGNER:
COBB FENDLEY
9600 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759

CONTACT:
HEATHER BYRNE, P.E.
512-646-4351

SUBMITTED FOR APPROVAL:

STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED
PROFESSIONAL ENGINEER

NOTE: SEAL EFFECTIVE UPON PERMIT APPROVAL

03/05/2025

HEATHER BYRNE, P.E. DATE
COBBFENDLEY, INC.

APPROVALS:

CHRIS POUSSON DATE
AUSTIN WATER

CobbFendley
TBPE NO. 274 / TBPLS NO. 10046701
9600 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.834.9798 | FAX 512.834.9553
WWW.COBBFENDLEY.COM

GENERAL NOTES

ALL RESPONSIBILITY FOR THE ADEQUECY OF THESE PLANS REMAINS WITH THE ENGINEER. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.

"REVIEWED BY AUSTIN WATER" APPLIES ONLY TO AW PUBLIC FACILITIES. ALL OTHER WATER AND WASTEWATER FACILITIES INSIDE PRIVATE PROPERTY ARE UNDER THE JURISDICATION OF BUILDING INSPECTIONS.

Use of Electronic Files General Disclaimer: Use of the attached files in any manner indicates your acceptance of terms and conditions as set forth below. If you do not agree to all of the terms and conditions, please contact Austin Water Pipeline Engineering, project coordinator prior to use of the referenced information. Please be advised that the attached files are in a format that can be altered by the user. Due to this fact, any reuse of the data will be at the user's sole risk without liability or legal exposure to the City of Austin and user shall indemnify and hold harmless The City of Austin from all claims, damages, losses and expenses including attorney's fees arising out of or resulting from using the digital file. In addition, it is the responsibility of the user to compare all data with the PDF version of this drawing. In the event there is a conflict between the PDF version drawing and the electronic file, the PDF version drawing shall prevail.

Automated Metering Infrastructure: Effective March 2022, new water meters installed shall be in conformance with AW's automated metering infrastructure technology, and with the applicable standard product list. Applicants filing a site plan or subdivision plan will be required to coordinate with the Austin Water Plan Reviewer for details on approval and installation.

Prior to the handling and disposal of Asbestos Pipe, the Contractor's work plans will be reviewed and coordinated through Austin Water's Asbestos Program Manager who can be reached at 512-972-0915. It is the Contractor's responsibility to utilize a trained, certified and licensed Asbestos Abatement Contractor in accordance with the Federal, State and Local regulations.

Modifications to Austin Water signed and stamped sheets are not permitted. All design modifications will need to be submitted via the ABC portal for a Plan Correction or Revision. All unethical engineering practices, including modifying City Stamped plan sheets, shall be reported to the Texas Board of Professional Engineers and Land Surveyors (PELS).

Reference: Texas Engineering Practice Act and Rules, Subchapter C: Professional Conduct and Ethics

AW INFRASTRUCTURE INFORMATION

PROPOSED PRODUCT TYPE (TO BE INSTALLED)	LENGTH OF PIPE (L.F.)	SIZE OF PIPE (INCH)	NO. OF SERVICES
WATER MAIN	96	8	NA
WASTEWATER MAIN	NA	NA	NA
RECLAIMED WATER MAIN	NA	NA	NA
WATER SERVICE	NA	NA	1
WASTEWATER SERVICE	NA	NA	NA
RECLAIMED WATER SERVICE	NA	NA	NA

EXPAND OR REDUCE TABLE AS NEEDED*
THE INFORMATION INCLUDED IN THIS TABLE ARE APPROXIMATE VALUES ESTIMATED BASED ON GENERAL ENGINEERING GUIDELINES

UC CASE #: 2024-107311 SP
ROW ID:

PROJECT INFORMATION[1]

FIRE, DOMESTIC AND IRRIGATION DEMAND DATA	
GRID NUMBER:	G37
MAPSCO NUMBER:	434T
AW INTERSECTION NUMBER:	15895
BUILDING SIZE IN SQUARE FEET:	NA
BUILDING TYPE PER IFC:	NA
BUILDING HEIGHT:	NA
AVAILABLE FIRE FLOW CALCS AT 20 PSI:	NA
REQUIRED BUILDING FIRE FLOW PER IFC TABLE B105.1(2):	NA
REDUCED FIRE FLOW PER __% FIRE SPRINKLER REDUCTION PER IFC TABLE B105.2:	NA
MINIMUM FIRE FLOW (SEE NOTE #2 BELOW):	NA
DOMESTIC WATER DEMAND IN GPM:	NA
WATER SUPPLY FIXTURE UNITS (WSFU) FLUSH TANKS OR FLUSHOMETERS (CIRCLE APPLICABLE ITEM):	NA
AUSTIN WATER PRESSURE ZONE:	NWB1
STATIC WATER PRESSURE IN PSI:	NA
STATIC PRESSURE AT THE HIGHEST LOT SERVED IN PSI:	NA
STATIC PRESSURE AT THE LOWEST LOT SERVED IN PSI:	NA
MAXIMUM IRRIGATION DEMAND:	NA
FIRE LINE VELOCITY: ___SIZE OF FIRE LINE	NA
DOMESTIC LINE VELOCITY: ___SIZE OF DOMESTIC LINE	NA
LIVING UNIT EQUIVALENTS (LUEs)	NA

NOTE: LOTS WITH 65 PSI OR GREATER REQUIRE A PRV TO BE INSTALLED ON THE PROPERTY OWNERS SIDE OF THE DOMESTIC WATER METER.

1. WITH THE EXCEPTION OF PROVIDING THE REQUIRED INFORMATION, DO NOT REVISE THESE TABLES IN ANYWAY.

2. MIN FIRE FLOW: DESIGN ENGINEER MUST INDICATE VALUES WHICH COMPLY WITH IFC TABLES B105.1(2) OR B105.2 (REQUIRED OR REDUCED FIRE FLOWS). MIN FIRE FLOW VALUE SHALL BE NO LESS THAN 1000 GPM FOR NFPA 13 SYSTEMS OR 1500 GPM FOR NFPA 13R SYSTEMS (FOOTNOTES a and b FOR TABLE B105.2).

3. IF DEMAND, OTHER THAN MINIMUM FIRE FLOW, IS UTILIZED IN FIRE LINE VELOCITY DETERMINATION, ENGINEERING JUSTIFICATION SHALL BE SHOWN ON THIS SHEET WITH APPLICABLE DATA AND CALCULATIONS.

Meter Notice:

Meter 1.5 inches and larger must be purchased and ordered 90 days in advance of installation.

Meter(s) Requirement for Project:
Address:
Proposed Use:
Type:
Size: GPM Range:
Service Units:

Meter(s) Requirement for Project:
Address:
Proposed Use:
Type:
Size: GPM Range:
Service Units:

Reclaimed Meter(s) Requirement for Project:
Address:
Proposed Use:
Type:
Size: GPM Range:

INSPECTION NOTES

Please contact Development Services Department, Site and Subdivision Inspection at sitesubintake@austintexas.gov for arrangements for payment of Inspection fees and job assignment for Inspection of the public utilities to this site. Inspection fees must be paid before any Pre-construction meeting can be held.

STANDARD CONSTRUCTION NOTES October 1, 2021

1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO THIS WORK.
2. CONTRACTOR MUST OBTAIN A ROW PERMIT FROM AUSTIN TRANSPORTATION DEPT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY. ACTIVITY WITHIN RIGHT-OF-WAY SHALL COMPLY WITH APPROVED TCP.
3. AT LEAST 48 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION ACTIVITY IN PUBLIC ROW OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY THE APPLICABLE CITY OF AUSTIN INSPECTION GROUP (AUSTIN TRANSPORTATION, DEVELOPMENT SERVICES, OR PUBLIC WORKS). SEE CURRENT NOTIFICATION REQUIREMENTS AT WWW.AUSTINTEXAS.GOV.
4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
5. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
6. MINIMUM TRENCH SAFETY MEASURES SHALL BE PROVIDED, AS REQUIRED BY OSHA, CITY SPECIFICATION 509S, AND CITY/COUNTY CONSTRUCTION INSPECTORS.
7. ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04.
8. PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMALLY PRESSURE TAPS 4 INCHES AND LARGER SHALL BE ALLOWED IN THE FOLLOWING CASES: A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUT OUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT.
9. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.
10. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
11. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS POLYETHYLENE (PE), THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD, AT BRASS FITTINGS, OR THE FULL LENGTH SHALL BE REPLACED PER CURRENT STANDARD DETAIL(S). WHEN POLYBUTYLENE (PB) TUBING IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE FULL LENGTH OF SERVICE LINE SHALL BE REPLACED. (NOTE: FULL LENGTH IS FROM THE CORPORATION STOP TO THE METER.) REPAIR COUPLINGS ARE NOT ALLOWED FOR ANY WATER OR WASTEWATER SERVICE LINE REPAIR, RECONNECT, OR REPLACEMENT.
12. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE.
13. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.
14. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES, BELOW GROUND AND OVERHEAD, PRIOR TO STARTING ONSITE UTILITY WORK.
15. ALL WATER, WASTEWATER, AND RECLAIMED MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED ON THE PLANS, PER UTILITY CRITERIA MANUAL AND TCEQ CHAPTERS 210, 217, AND 290.
16. PROJECT-SPECIFIC SHOP DRAWINGS SHALL BE SUBMITTED FOR AW APPROVAL FOR PRE-CAST CIRCULAR VERTICAL MANHOLE SECTIONS LARGER THAN 48" DIAMETER. THE SHOP DRAWINGS SHALL INCLUDE THE FLOWLINE ELEVATION OF ALL CONNECTING PIPES; ELEVATIONS OF TRANSITIONS FROM LARGE DIAMETER SECTIONS TO 48" DIAMETER SECTIONS; TOP OF MANHOLE AND SURROUNDING GROUND ELEVATIONS; AND DETAILS OF SPECIAL CONSTRUCTION CONSIDERATIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
17. WHEN CONCRETE MANHOLES LARGER THAN 48 INCH DIAMETER ARE USED, DRAWINGS THAT ARE SEALED BY A PROFESSIONAL ENGINEER SHALL BE SUBMITTED FOR BASE SLABS, FLAT TOP LIDS (IF USED), AND FLAT TYPE CONCRETE PIECES USED TO TRANSITION FROM LARGER TO SMALLER DIAMETER MANHOLE SECTIONS.
18. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO AUSTIN WATER. NOTICE SHOULD BE GIVEN 48 HOURS PRIOR, TO PIPELINE OPERATIONS DISTRIBUTION SYSTEM -VALVES AND HYDRANT SERVICES SUPERVISOR AT 512-972-1280.
19. ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT SHALL BE REMOVED FROM THE METER BOX PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE CITY OF AUSTIN INSPECTOR.
20. THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET. A SEPARATE AUSTIN WATER TAPS OFFICE FORM WILL BE USED TO PROVIDE RELEVANT DATA FOR THE EXISTING INFORMATION ON EXISTING METERS TO RECEIVE APPROPRIATE CREDITS. THIS FORM SHALL BE DIRECTLY SUBMITTED TO AUSTIN WATER TAPS OFFICE FOR REVIEW AND PROCESSING.
21. NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND AUSTIN WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED.
22. METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.

AW EXPIRATION STAMP
THREE YEARS FROM THE DATE OF SIGN-OFF

AUSTIN WATER REVIEW BLOCK

NOTE:DO NOT REMOVE THE TITLE BLOCK

AUSTIN WATER GENERAL INFORMATION AND CONSTRUCTION NOTES FOR COMMERCIAL SITES AND SUBDIVISION PLANS

CITY OF AUSTIN
AUSTIN WATER
October 2021

VERSION 2.0
STANDARD NO.
1 OF 1

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley

GENERAL NOTES

POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

PROJ. NO. 1903-099-21
DESIGN: H. BYRNE
DRAWN: H. BYRNE
CHECK: C. WEEKS
APPR: H. BYRNE
DATE: 4/23/2025

STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED PROFESSIONAL ENGINEER

SEAL EFFECTIVE UPON PERMIT APPROVAL

THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT.

Dwg Info: G:\CFA\2014\0308801_Williamson_County_2013_Road_Bond\MUN\49_PondSprings-at-Roxie\01\DESIGN\C-002-GNOT.dwg -- Tab: GEN-NOTES -- Plotted: 4/23/2025 11:27 AM By: CAROLINE CONROY

LOCATION	509-A	510-AW-2"-W	510-AWRJ-8"-W	510-AWRJ-12"-W	510-JW-12"X8"	510-KW	511-A-8"	510-BW-2"x2" Dia.	SP510-JW-AC-8"x8"	SP510-JW-CI-12"x12"	SP1900-W8Dia
	Trench Excavation Safety Protection System (All Depths)	Pipe, 2" Dia.Copper Type K, Complete in Place, Including Excavation and Backfill	Pipe, 8" Dia. DI CL-350 (Restrained), all depths, Complete in Place, Including Excavation and Backfill	Pipe, 12" Dia. DI CL-350 (Restrained), all depths, Complete in Place, Including Excavation and Backfill	Wet Connections, 12"x8"	Ductile Iron Fittings (C-110 Weight Schedule)	Valves, Gate 8" Dia.	Water Service Reconnection, including 2" Corporation Stop, Tap to Main, as well as removal of the existing components	AC Pipe Connections, 8" Dia. x 8" Dia.	CI Pipe Connections, 12" Dia. x 12" Dia.	Removing Pipe, 8" Diameter, AC Pipe - For Removal at Storm Crossings, Required Restrained Joints, to Existing Couplings, and Other Areas Specified on Plans; Pipe Removal shall include the cost of trench and pavement repairs, Complete and in place; Removal of valves considered subsidiary to cost of pipe removal
	LF	LF	LF	LF	EA	TON	EA	EA	EA	EA	LF
97	183		96	20	1	0.12	1		1	1	92
98	53	53						1			
Total	**236**	**53**	**96**	**20**	**1**	**0.12**	**1**	**1**	**1**	**1**	**92**

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley

TBPELS ENGINEERING FIRM NO. F-274 | LAND SURVEYING FIRM NO. 10046705
9600 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

SUMMARY OF WATER LINE QUANTITIES

POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

PROJ. NO. 1903-099-21
DESIGN: H. BYRNE
DRAWN: H. BYRNE
CHECK: C. WEEKS
APPR: H. BYRNE
DATE: 4/23/2025

STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED PROFESSIONAL ENGINEER

SEAL EFFECTIVE UPON PERMIT APPROVAL

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SHEET
95

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley

TBPELS ENGINEERING FIRM NO. F-274, LAND SURVEYING FIRM NO. 10046700
9600 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.354.0798 | FAX 512.354.7727
WWW.COBBFENDLEY.COM

KEY MAP

POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

PROJ. NO.	1903-099-21
DESIGN:	H. BYRNE
DRAWN:	H. BYRNE
CHECK:	C. WEEKS
APPR:	H. BYRNE
DATE:	4/23/2025

STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED
PROFESSIONAL ENGINEER

SEAL EFFECTIVE UPON PERMIT APPROVAL

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SHEET
96

Dwg Info: G:\CFA\2014\0308801_Williamson_County_2013_Road_Bond\MUN\49_PondSprings-ot-Roxie\01\DESIGN\C-100-KEYMAP.dwg — Tab: KEYMAP-01 — Plotted: 4/23/2025 11:28 AM By: CAROLINE CONROY

N

1:2400

0 200 400

Feet

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. This product has been produced by the Austin Water Utility for the sole purpose of geographic reference. No warranty is made by the City of Austin regarding specific accuracy or completeness.

Water Mains
- In Service, City Maintained Main
- Proposed for Aband., City Maintained Main
- In Service, City Maintained Lead Line
- Proposed for Aband., City Maintained Lead Line
- Proposed, City Maintained Main
- Proposed, City Maintained Lead Line
- Abandoned, City Maintained Main
- In Service, Private Maintained Main
- Proposed for Aband., Private Maintained Main
- In Service, Private Maintained Lead Line
- Proposed for Aband., Private Maintained Lead Line
- Proposed, Private Maintained Main
- Proposed, Private Maintained Lead Line
- Abandoned, Private Maintained Main

- Hydrant
- Proposed Hydrant
- Project Separator
- Backflow Preventer
- Water Meter
- Drain Manhole
- Inspection Manhole
- Inspection Manhole with Valve
- Water Flow Meter
- Water Connection

Fittings
- Water Connector
- Water Fireline
- Water Plug
- Water Reducer

Separators
- Attribute Change
- Maintained By Change
- Material Change

Operating Valves
- Closed
- Open

Zone Valves
- Pressure Boundary Valve
- Check Valve
- Double Check Valve
- Pressure Sustaining Valve
- Pressure Reducing Valve

Control Valves
- Auto Air Release Valve
- Combo Air Release Valve
- Manual Air Release Valve
- Vacuum Release Valve
- Drain Valve
- Flush Valve
- Hydrant PRV

Facilities
- Water Treatment Plant
- Pump Station
- Booster Station
- Reservoir
- Sampling Port
- Scada Sensor
- Raw Water Intake
- Hydro Tank
- Water Well

Grid Maps
Current Sheet

City of Austin
Water Distribution System

Last Update:
2/10/2023

Map Sheet
G37

Produced by GIS Services

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley

TBPELS ENGINEERING FIRM NO. F-274 | LAND SURVEYING FIRM NO. 10048709
9600 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

AW GRID MAP
POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

PROJ. NO. 1903-099-21
DESIGN: H. BYRNE
DRAWN: H. BYRNE
CHECK: C. WEEKS
APPR: H. BYRNE
DATE: 4/23/2025

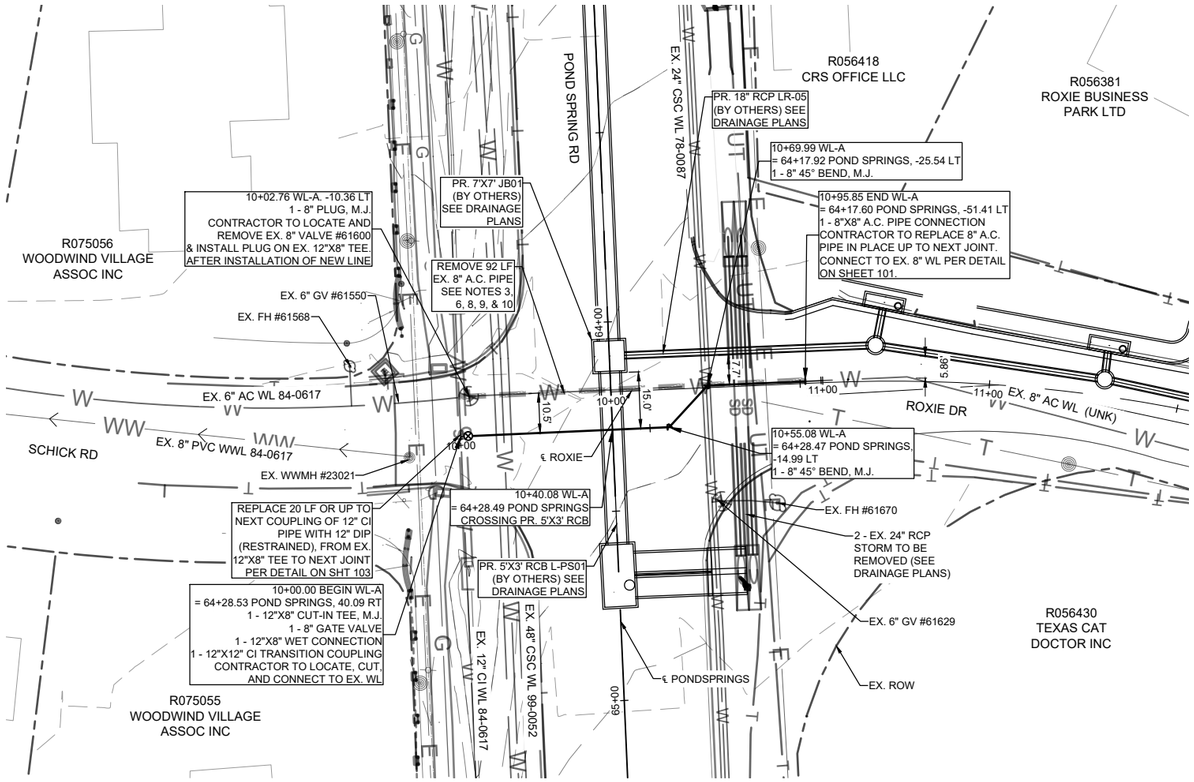
STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED
PROFESSIONAL ENGINEER
4/23/2025

SEAL EFFECTIVE UPON PERMIT APPROVAL

THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT.

SHEET
97

Dwg Info: G:\CFA\2014\0308801_Williamson_County_2013_Road_Bond\MUN\49_PondSprings-at-Roxie\01\DESIGN\C-002-GNOT.dwg -- Tab: AW GRID -- Plotted: 4/23/2025 11:28 AM By: CAROLINE CONROY



AW GRID #: WD G37-2
AW INT #: 15895

PRIOR TO HANDLING AND DISPOSAL OF ASBESTOS PIPE, THE CONTRACTOR'S WORK PLANS WILL BE REVIEWED AND COORDINATED THROUGH OMAR ALMOUSLLI, THE AUSTIN WATER, ASBESTOS PROGRAM MANAGER WHO CAN BE REACHED AT (512) 974-7137. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE A TRAINED, CERTIFIED AND LICENSED ASBESTOS ABATEMENT CONTRACTOR IN ACCORDANCE WITH THE FEDERAL, STATE AND LOCAL REGULATIONS.

0 20' 40'
SCALE: 1" = 40'

LEGEND

- EX. RIGHT-OF-WAY
- PR. RIGHT-OF-WAY
- TEMP. CONST. ESMT.
- EX. EDGE OF PAVEMENT
- PR. EDGE OF PAVEMENT
- ULTIMATE PAVEMENT
- W EX. WATER
- PR. WATER
- WW EX. WASTEWATER
- SD EX. STORM DRAIN
- PR. STORM DRAIN
- G EX. GAS LINE
- OE EX. OVERHEAD ELECTRIC
- OC EX. OVERHEAD CABLE
- OH EX. OVERHEAD UTILITIES
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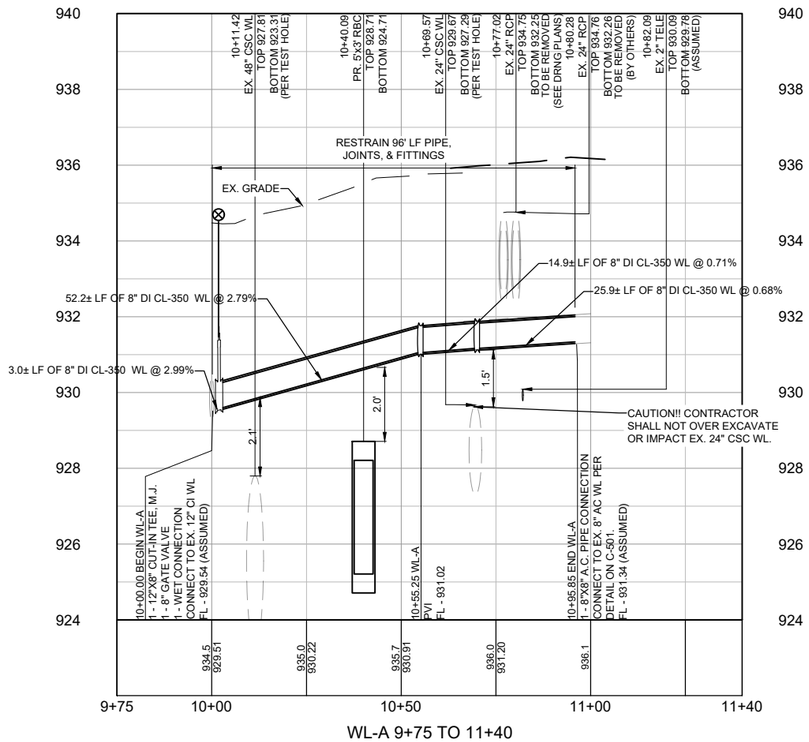
- UE EX. U.G. ELECTRIC
- EX. FENCE
- EX. WATER T.B.R.
- EX. WATER VALVE
- PR. WATER VALVE
- EX. FIRE HYDRANT
- PR. FIRE HYDRANT
- EX. WATER METER
- PR. AIR RELEASE VALVE

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. WHEN THE CONTRACTOR IS USING TRENCHLESS INSTALLATION METHODS, THE CONTRACTOR SHALL LOCATE ALL UTILITIES FOR THE ENTIRE LENGTH OF THE INSTALLATION PRIOR TO ANY ACTIVITIES. ANY DISCREPANCIES FROM WHAT IS SHOWN SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. CONTRACTOR TO GIVE CITY OF AUSTIN A MINIMUM OF TWO WEEKS NOTICE FOR ALL WATERLINE SHUTDOWNS. SHUTDOWNS MUST OCCUR ONLY DURING THE MONTHS OF DECEMBER, JANUARY, AND FEBRUARY.
3. EXISTING 8" & 12" WATER MAINS ARE TO BE PROTECTED AND REMAIN IN SERVICE UNTIL THE NEW MAINS ARE CONSTRUCTED, TESTED, APPROVED AND SERVICE LINES RECONNECTED AND THE NEW MAIN IS PLACED IN SERVICE.
4. EXISTING WATER SERVICE LINES AND METERS ARE TO BE PROTECTED AND REMAIN IN SERVICE UNTIL NEW SERVICE LINES ARE CONSTRUCTED, TESTED, APPROVED AND RECONNECTED AND IN SERVICE.
5. EXISTING WATER MAINS THAT ARE TO BE ABANDONED IN PLACE AND ARE UNDER THE PROPOSED ROADWAY ARE TO BE CUT, CAPPED, AND FILLED WITH FLOWABLE FILL. SUBSIDIARY TO COST OF PIPE, NO SEPARATE PAY. EXISTING WATER LINES THAT ARE TO BE ABANDONED IN PLACE AND ARE NOT UNDER THE PROPOSED ROADWAY WILL BE CAPPED.
6. CONNECTION LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL LOCATE THE EXISTING COUPLINGS ON THE AC PIPE, MAKE CONNECTIONS, AND REMOVE THE AMOUNT OF AC PIPE AS SHOWN PER DETAIL ON SHEETS 102 – 103.
7. EXISTING ASBESTOS CEMENT WATER MAIN(S) IS TO BE PROTECTED AND REMAIN IN SERVICE UNTIL THE NEW DUCTILE IRON MAIN(S) IS CONSTRUCTED, TESTED, APPROVED AND THE SERVICE LINES RECONNECTED AND THE NEW MAIN IS PLACED IN SERVICE.
8. AN APPROVED CITY OF AUSTIN ASBESTOS CONSULTING FIRM WILL NEED TO BE RETAINED TO OVERSEE THE WORK ACTIVITIES AND DOCUMENT AIR QUALITY. THE CONTRACTOR IS RESPONSIBLE TO RETAIN A LICENSED CONTRACTOR FAMILIAR WITH CITY OF AUSTIN PROCEDURES FOR ANY ACTIVITY DISTURBING THE EXISTING AC PIPE.
9. THE DEPARTMENT OF STATE HEALTH SERVICES MUST BE CONTACTED 10 DAYS PRIOR TO THE START OF ANY ABATEMENT WORK.
10. EXISTING ASBESTOS CEMENT PIPE TO BE REMOVED FROM JOINT TO JOINT. PIPE REMOVAL SHALL INCLUDE THE COST OF TRENCH AND PAVEMENT REPAIRS, AS WELL AS ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE PIPE REMOVAL
11. WATERLINES TO BE INSTALLED PRIOR TO ROADWAY CONSTRUCTION. MINIMUM DEPTH OF COVER SHOWN IS TO FINISHED GRADE. CONTRACTOR SHALL INSTALL VALVES AND HYDRANTS AS SHOWN. ADJUSTMENTS TO FINISHED GRADE MAY BE NECESSARY DURING ROADWAY CONSTRUCTION.
12. CONTRACTOR TO VERIFY SIZES OF WATER LINES, SERVICE LINES, AND METERS PRIOR TO INSTALLATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.



XXX.X GRADE
XXX.XX FLOW LINE

PROFILE SCALE
1"=40' HORIZ.
1"=4' VERT.

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPELS ENGINEERING FIRM NO. F-274, LAND SURVEYING FIRM NO. 10046705
9600 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

WATERLINE "A" STA. 10+00 TO END
PLAN & PROFILE

POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

PROJ. NO. 1903-099-21
DESIGN: H. BYRNE
DRAWN: H. BYRNE
CHECK: C. WEEKS
APPR: H. BYRNE
DATE: 4/23/2025

STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED
PROFESSIONAL ENGINEER
SEAL EFFECTIVE UPON PERMIT APPROVAL

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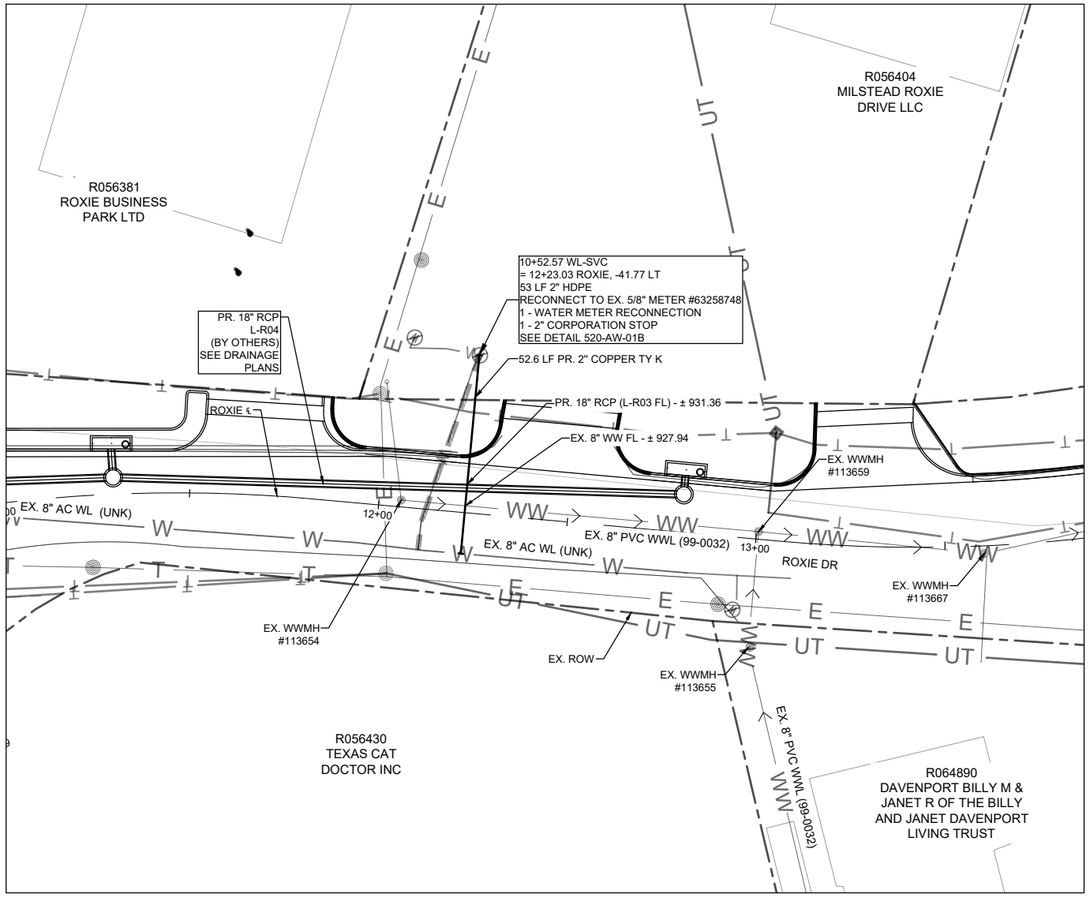
SHEET
98



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CobbFendley
TBPELS ENGINEERING FIRM NO. F-274 | LAND SURVEYING FIRM NO. 10046701
9600 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

WATER SERVICE RELOCATION
POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

PROJ. NO. 1903-099-21
DESIGN: H. BYRNE
DRAWN: H. BYRNE
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DATE: 4/23/2025

STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED
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SHEET
99

Dwg Info: G:\CFA\2014\0308801_Williamson_County_2013_Road_Bond\MUN\49_PondSprings-at-Roxie\01\DESIGN\C-200-WTR.dwg - Tab: WL-SVC - Plotted: 4/23/2025 11:28 AM By: CAROLINE CONROY

WL-A RESTRAINED JOINTS CALCULATIONS

Pipe Size (inch)	Fitting	Angle (degrees)	Test Pressure (psi)	Required Joint Restraint (ft)	Notes
12X8	TEE	-	200	16.8	
8	Dead End	-	200	84.6	
8	Horiz.	45	200	11.8	

Note:
1. All restrained joints must be greater than or equal to the distances given above. If the required restrained joint length occurs to the middle of a pipe segment, then the contractor shall restrain the next joint beyond the required restraint at no additional cost.
2. The first length listed is for the large diameter side of reducer, and second length is for the small side of reducer.

Settings:		
	Pipe Material	DI (Polywrapped)
	Laying Condition	Type 5
	Soil Designation	COH-GRAN
	Depth of Cover (FT)	4
	Design Pressure (psi)	200
	Safety Factor	1.5

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512.834.9789 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

WATERLINE CALCULATIONS

POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

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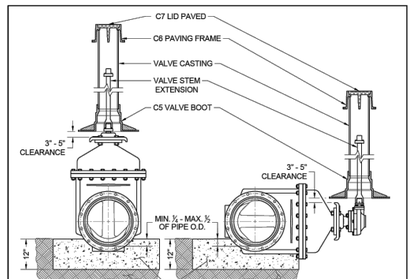


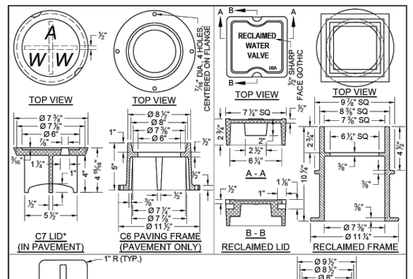
VERTICAL VALVE

HORIZONTAL VALVE
ONLY TO BE USED WHEN CALLED OUT ON THE DRAWINGS.

NOTES:
1. WELD SOCKET 2½" x 2" DEEP TO 1" SCH. 40 CARBON STEEL ROUND STEM EXTENSION, FITTED ON OPERATING NUT. [SCH. 80 FOR LENGTHS OVER 10']
2. VALVE CASTING SHALL BE 6" DI PIPE WITH BELL OR COLLAR CENTERED OVER VALVE BOOT.
3. NUT AT TOP OF VALVE EXTENSION ROD SHALL BE SQUARE 2" LONG WELDED TO TOP OF ROD.
4. VALVE STEM EXTENSIONS ARE REQUIRED ON ALL VALVES THAT EXCEED 3' DEEP FROM FINISHED GRADE. VALVE EXTENSIONS SHALL BE PLACED SUCH THAT THE EXTENSION NUT IS BETWEEN 12" AND 18" FROM FINISHED GRADE.

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE **"RECLAIMED WATER"** CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
RECORD COPY SIGNED BY KATHI L FLOWERS 05/18/2016 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 511-AW-01 1 OF 4



NOTES:
1. MATERIAL SHALL BE GRAY CAST IRON, ASTM A48, GRADE 30B.
2. THE MANUFACTURER'S IDENTIFICATION AND CASTING NUMBER, AND THE COUNTRY WHERE CAST, SHALL BE DISTINCTLY CAST ONTO EACH LID, FRAME, COLLAR AND BASE.
3. DRAFT AND SHRINKAGE ALLOWANCE SHALL BE IN ACCORDANCE WITH NORMAL FOUNDRY PRACTICE.
4. CASTING FINISH BY MANUFACTURER SHALL INCLUDE REMOVAL OF FINS AND FLASHING, AND PAINT WITH BLACK ASPHALT COATING.

WEIGHTS:
C7 LID: 13 LBS
RECLAIMED LID: 15 LBS
C6 FRAME: 23 LBS
RECLAIMED FRAME: 33 LBS
C5 BASE: 79 LBS

* LETTERING SHALL BE 1 ½" 2 PICK BAR SLOTS REQUIRED

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
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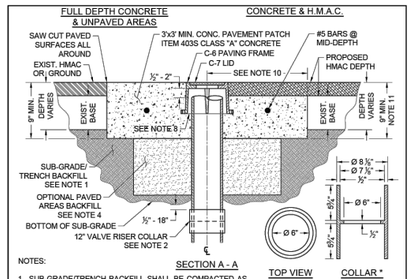

NOTES:
1. SUB-GRADE/TRENCH BACKFILL SHALL BE COMPACTED AS PER ITEM 2015, SUB-GRADE PREPARATION.
2. TO ADJUST VALVE CASTINGS TO FINAL GRADE, REMOVE RISER PIPE BELOW SUB-GRADE AND INSTALL APPROPRIATE LENGTH OF NEW RISER PIPE TO ACHIEVE FINAL GRADE. CONNECT THE TWO PIECES OF RISER PIPE WITH A 6" COLLAR MIN. 12" LENGTH APPROXIMATELY CENTERED ON THE JOINT WITH THE TOP OF SLEEVE LOCATED ½" - 18" BELOW SUB-GRADE. THE INSIDE "LIP" OF COLLAR TO BE PAINTED WITH FLUORESCENT WHITE PAINT OR COVERED WITH FLUORESCENT WHITE TAPE. ALTERNATE: FOR OPTIONAL SINGLE PIECE RISER INSTALLATION SEE SHEET 4 OF 4.
3. CLEAN VALVE BOX OF ALL DEBRIS DOWN TO THE NUT OF THE VALVE; NUT SHALL OPERATE WITH NO OBSTRUCTION.
4. WHERE CASTINGS TO BE REMOVED REQUIRE EXCAVATION GREATER THAN 20" DEEP, CONTRACTOR MAY ELECT TO FILL EXCAVATION WITH CONTROLLED LOW STRENGTH MATERIAL (SPEC. ITEM 402S) TO THE UNDERSIDE OF THE CONCRETE. PAVEMENT PATCH IN LIEU OF COMPACTED BACKFILL.
5. REINFORCING STEEL SHALL MEET SPEC. ITEM 406S.7.
6. NO MORE THAN 2 SECTIONS OF PIPE SHALL BE USED FROM VALVE TO FINAL GRADE.
7. BELL AND SPIGOT IS ACCEPTABLE FOR DEPTH OVER 18'.

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
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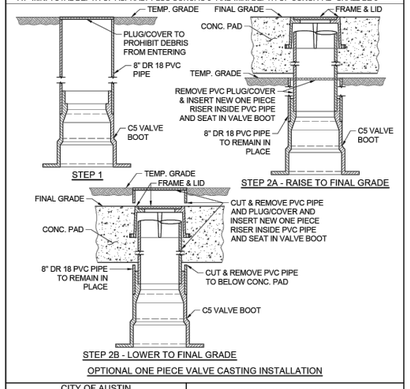
NOTES (CONT'):
8. PAVING FRAME SHALL BE FLUSH WITH THE CONC. PAD AND PLACED ½" - 2" ABOVE RISER PIPE (FRAME SHALL NOT REST ON RISER.)
9. IN UNPAVED AREAS, INSTALL ONE DELINEATOR STAKE IMMEDIATELY ADJACENT TO THE EDGE OF THE CONCRETE PAD. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES.
10. VALVE SHALL TYPICALLY BE CENTERED IN CONCRETE DIAMOND BUT MAY BE OFFSET WITH A MIN. OF 12" FROM CENTER OF VALVE LID TO EDGE OF CONCRETE IN ALL DIRECTIONS.
11. MIN. TOTAL DEPTH OF ASPHALT PLUS CONC. IS 9" AND MIN. DEPTH OF CONC. PAD SHALL BE 5'



OPTIONAL ONE PIECE VALVE CASTING INSTALLATION

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
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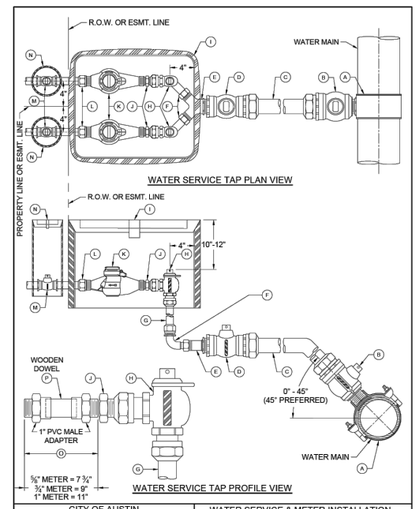


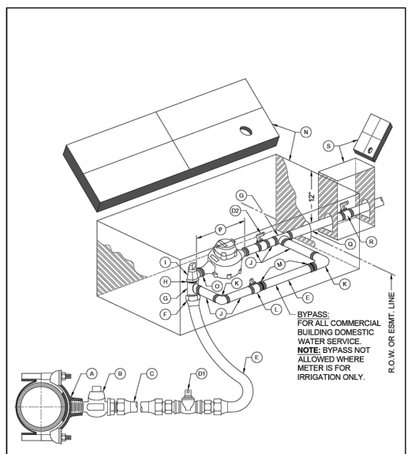
CITY OF AUSTIN AUSTIN WATER	WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS	
RECORD COPY SIGNED JEFF A. KYLE 08/16/2019 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 520-AW-01B 1 OF 2

MATERIALS LIST:
- A. 2" SERVICE CLAMP, SPL WW-264
- B. 2" CORPORATION STOP, SPL WW-68
- C. 2" HDPE WATER SERVICE TUBING, SPL WW-65
- D. 2" BALL VALVE, SPL WW-68
- E. SINGLE SERVICE: 2" MIP X 1" COPPER FLARE FITTING, SPL WW-68 OR DOUBLE SERVICE: 2" MIP X 1" COPPER FLARE WYE, SPL WW-68
- F. 1" SWIVEL NUT x 1" COMPRESSION 90° BEND, SPL WW-68
- G. 1" HDPE WATER SERVICE TUBING, SPL WW-65
- H. 1" ANGLE METER STOP, SPL WW-68
- I. METER BOX AND LID, SPL WW-145A; FOR DUAL 1" METERS: USE TWO SINGLE METER BOXES

MATERIALS TO BE INSTALLED BY PLUMBER:
- J. BRASS METER BUSHING - SIZE AS NEEDED TO CONNECT ANGLE METER STOP TO METER
- K. WATER METER PURCHASED FROM AUSTIN WATER
- L. BRASS WATER METER COUPLING MALE IPT x SWIVEL COUPLING NUT: ⅝" AND ¾" METERS: 8 ½" LONG x ¾" DIA. 1" METERS: 8 ½" LONG x 1" DIA.
- M. PROPERTY OWNER'S CUT OFF VALVE, SPL WW-276
- N. PROPERTY OWNER'S CUT OFF VALVE BOX AND LID
- O. TEMPORARY METER SPACER (REQUIRED TO ASSURE METER WILL FIT APPROPRIATELY)
- P. 1" WOODEN DOWEL (SHOW ADDRESS ON DOWEL USING WATERPROOF MARKER)

NOTES:
1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM, SPL WW-27D.
2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
3. TOP OF METER BOXES SHOULD BE 4" ABOVE GROUND.
4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
5. METER BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
6. BALL VALVE "D" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 36" BELOW FINAL GRADE.
7. METER SIZES TO BE SHOWN ON PLANS.
8. METER BOX CUT OUTS SHALL NOT EXCEED TWO TIMES THE PIPE DIAMETER.
9. INSTALL METALLIC TRACER TAPE, SPL WW-697, MINIMUM 1' ABOVE TUBING FROM SERVICE CLAMP "A" TO BALL VALVE "D".
10. TUBING SHALL BE PLACED IN A STRAIGHT ALIGNMENT AND ALLOWED TO RELAX AND "SNAKE" LOOSELY IN THE TRENCH. TUBING BEHIND CURB AND GUTTER SHALL BE INSTALLED WITH A MINIMUM 2' DEPTH OF COVER.
11. 1" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 3'. 2" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 5'. BRASS FITTINGS SHALL NOT BE CONNECTED TO A BENT SECTION OF TUBING.
12. SOLID, TUBULAR STAINLESS STEEL INSERT STIFFENERS FOR HDPE TUBING SHALL BE USED AT ALL COMPRESSION FITTINGS. INSERT STIFFENERS SHALL BE FROM THE SAME MANUFACTURER AS THE COMPRESSION FITTING USED.
13. FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED SOLID PURPLE, SPL WW-65A. ALL APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL METER BOX LIDS SHALL BE PURPLE AND HAVE **"RECLAIMED WATER"** CAST INTO THEM, SPL WW-145A.

CITY OF AUSTIN AUSTIN WATER	WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS	
RECORD COPY SIGNED JEFF A. KYLE 08/16/2019 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 520-AW-01B 2 OF 2



CITY OF AUSTIN AUSTIN WATER	1 ½" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS	
RECORD COPY SIGNED BY KATHI L FLOWERS 05/18/2016 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 520-AW-04 1 OF 2

MATERIALS LIST:
- A. 2" SERVICE CLAMP
- B. 2" CORPORATION STOP MALE THREAD INLET BY COMPRESSION OUTLET
- C. 2" COPPER WATER SERVICE TUBING EXTENDED BEYOND PAVEMENT
- D1. 2" BALL VALVE, SPL WW-27S
- D2. 2" BALL VALVE, SPL WW-27S
- E. 2" COPPER SERVICE TUBING
- F. 2" BRASS COUPLING - COMPRESSION TO MALE IPT
- G. 2" BRASS TEE
- H. 2" BRASS CLOSE-NIPPLE
- I. 2" ANGLE METER STOP, SERVICE TUBING INLET x FLANGED OUTLET
- J. 2" BRASS NIPPLE
- K. 2" BRASS ELBOW
- L. 2" LOCKABLE CURB STOP - FEMALE IPT INLET BY COMPRESSION OUTLET
- M. 2" BRASS COUPLING - SERVICE TUBING TO MALE IPT
- N. RECTANGULAR METER BOX AND COVER, SPL WW-145A
- O. BRASS ADAPTER (2" x 1 ½") FOR 1 ½" METER ONLY
- P. WATER METER, LENGTH 13", (PURCHASED FROM AUSTIN WATER)
- Q. 2" COPPER SERVICE TUBING (PRIVATE PLUMBING PER CODE)
- R. CUSTOMER CUT-OFF VALVE
- S. CUSTOMER VALVE BOX AND LID

NOTES:
1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
3. TOP OF BOXES SHOULD BE 1" ABOVE GROUND.
4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
5. BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
6. BALL VALVE "D1" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 24" HORIZONTALLY FROM METER BOX OR 36" BELOW FINAL GRADE.
7. COPPER SERVICE SHALL BE COPPER TUBING SIZE ANNEALED SEAMLESS TYPE "K" MEETING ASTM B88 WITH NO SWEAT OR SOLDERED JOINTS.

RECLAIMED WATER:

FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED PURPLE TUBING. ALL OTHER TUBING AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL TUBING AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE **"RECLAIMED WATER"** CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER	1 ½" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS	
RECORD COPY SIGNED BY KATHI L FLOWERS 05/18/2016 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 520-AW-04 2 OF 2

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPELS ENGINEERING FIRM NO. F-274 | LAND SURVEYING FIRM NO. 10046700
9000 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

STANDARD WATER DETAILS - SHEET 1

POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

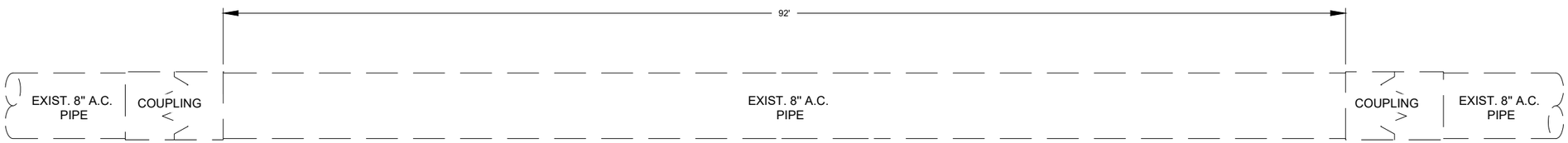
PROJ. NO. 1903-099-21
DESIGN: H. BYRNE
DRAWN: H. BYRNE
CHECK: C. WEEKS
APPR: H. BYRNE
DATE: 4/23/2025

STATE OF TEXAS
HEATHER C. BYRNE
149700
WILCO COUNTY
PROFESSIONAL ENGINEER
SEAL EFFECTIVE UPON PERMIT APPROVAL

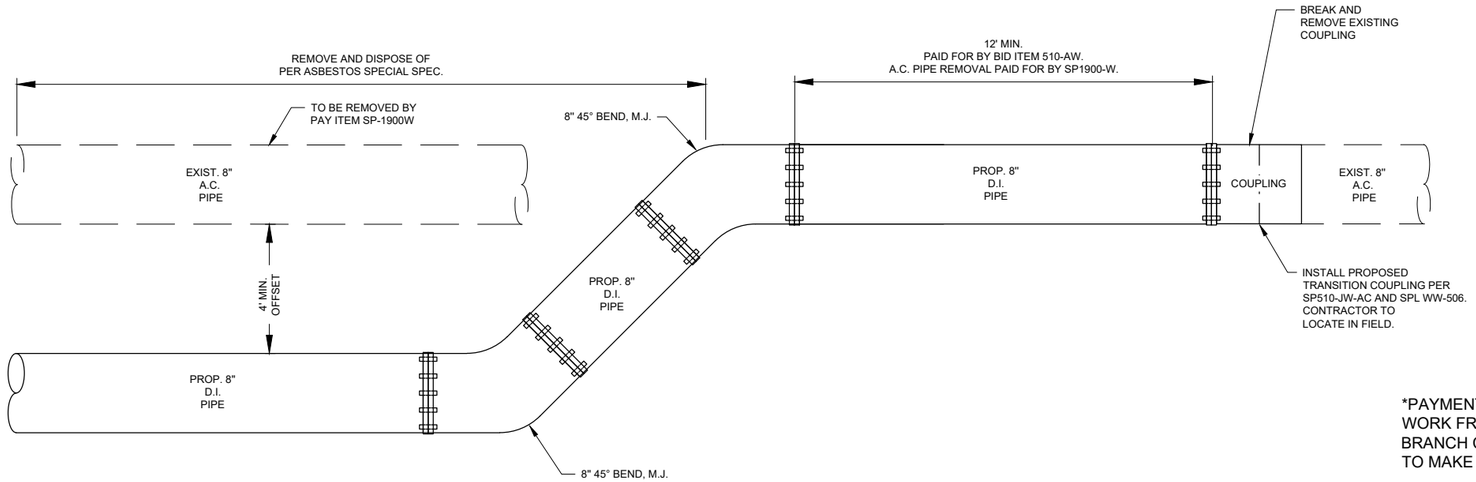
THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT

SHEET
101

EXISTING 8" A.C. PIPE



PROPOSED 8"x8" OFFSET CONNECTION



*PAYMENT ITEM SP510-JW-AC TO INCLUDE ALL WORK FROM TYING INTO EXISTING COUPLINGS, BRANCH CONNECTION, AND MATERIALS AND LABOR TO MAKE CONNECTION TO EXISTING A.C. SYSTEM.

ASBESTOS CEMENT PROPOSED OFFSET CONNECTION DETAILS
PROP. 8" D.I. PIPE CONNECTION TO EXIST. 8" A.C. PIPE

N.T.S

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPELS ENGINEERING FIRM NO. F-274 | LAND SURVEYING FIRM NO. 10046700
9600 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

A.C. PIPE OFFSET CONNECTION DETAILS - SHEET 1

POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

PROJ. NO. 1903-099-21
DESIGN: H. BYRNE
DRAWN: H. BYRNE
CHECK: C. WEEKS
APPR: H. BYRNE
DATE: 4/23/2025

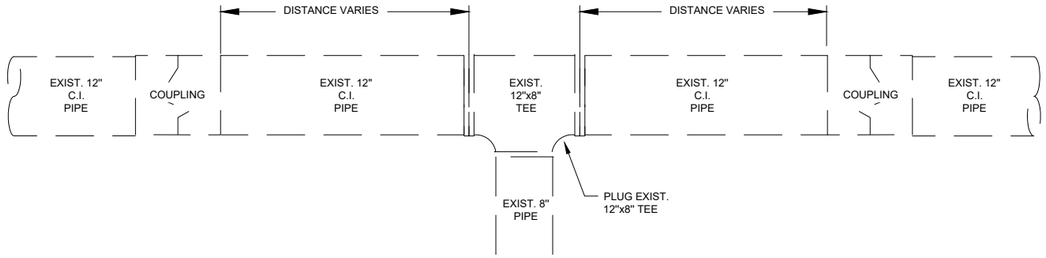
STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED PROFESSIONAL ENGINEER

SEAL EFFECTIVE UPON PERMIT APPROVAL

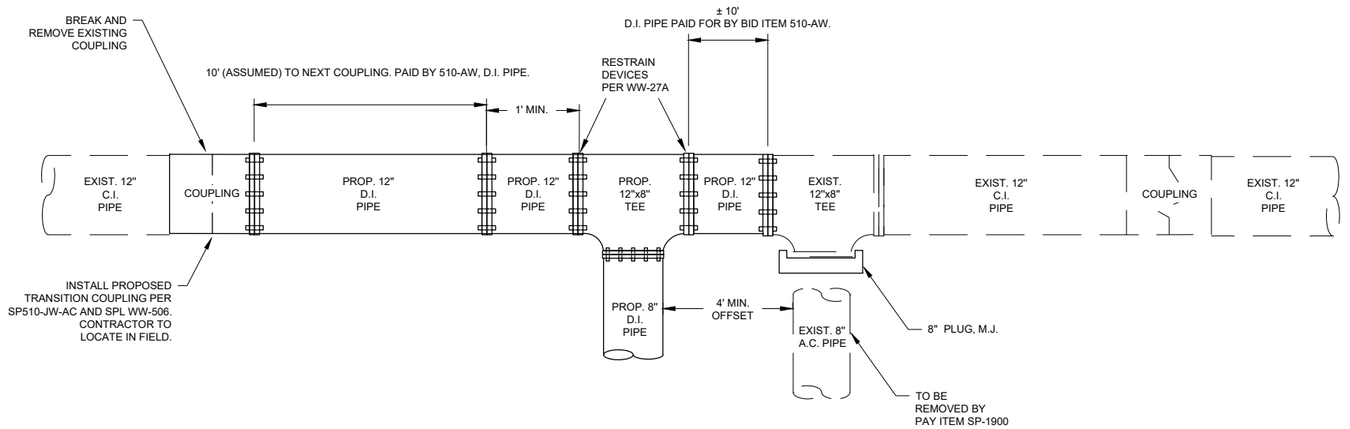
THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT

SHEET
102

EXISTING 12"x8" OR BRANCH CONNECTION



PROPOSED 12"x8" BRANCH OFFSET CONNECTION



*PAYMENT ITEM SP510-JW-AC TO INCLUDE ALL WORK FROM TYING INTO EXISTING COUPLINGS, BRANCH CONNECTION, AND MATERIALS AND LABOR TO MAKE CONNECTION TO EXISTING A.C. AND C.I. SYSTEM.

CAST IRON TO ASBESTOS CEMENT BRANCH CONNECTION DETAILS -
12"x8" OFFSET BRANCH CONNECTION

N.T.S

REV. NO.	REVISION DESCRIPTION	APPROVED BY:	DATE

CobbFendley
TBPELS ENGINEERING FIRM NO. F-274, LAND SURVEYING FIRM NO. 10046700
9000 N. MOPAC EXPRESSWAY, SUITE 800
AUSTIN, TEXAS 78759
512.834.9798 | FAX 512.834.7727
WWW.COBBFENDLEY.COM

A.C. PIPE & C.I. PIPE BRANCH CONNECTION DETAILS - SHEET 2

POND SPRINGS RD DRAINAGE IMPROVEMENTS
AUSTIN, TEXAS

WILCO TEXAS

PROJ. NO. 1903-099-21
DESIGN: H. BYRNE
DRAWN: H. BYRNE
CHECK: C. WEEKS
APPR: H. BYRNE
DATE: 4/23/2025

STATE OF TEXAS
HEATHER C. BYRNE
149700
LICENSED PROFESSIONAL ENGINEER

SEAL EFFECTIVE UPON PERMIT APPROVAL

THESE DESIGN DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION PRIOR TO REGULATORY SIGNATURE AND PERMIT

SHEET
103

Attachment E – Request to Temporarily Seal a Feature

Not applicable.

Attachment F – Structural Practices

Sediment derived from excavation and grading will be controlled through the use of rock filter dams, erosion control logs, sediment control fence, and inlet protection.

Attachment G – Drainage Area Map

See the attached Drainage Area Map sheets included with **Attachment D – Temporary Best Management Practices and Measures** of this section.

Attachment H – Temporary Sediment Pond(s) Plans and Calculations

Not applicable.

Attachment I – Inspection and Maintenance for BMP's

The key to maintaining the performance of and efficiency of the temporary BMPs is inspection and repair when needed. The project will use an established schedule of inspection to identify the weak or failing sections of the sediment controls and institute repairs immediately to ensure the continued performance of the installed BMPs. BMPs will be inspected at least once every fourteen (14) calendar days and within twenty four (24) hours of the end of a storm of 0.5 inches or greater. An inspection and maintenance report shall be prepared and maintained onsite by qualified personnel. Damaged BMPs will either be repaired or replaced as needed. If storms damage the BMPs, efforts will be made immediately to restore them to original performance levels. Should damage exceed the capacity to repair during storm events, alternate methods such as temporary fiber rolls or rock dams will be available. Other inspection and maintenance data can be found in the Stormwater Pollution Prevention Plan (SW3P) provided in **Attachment D – Temporary Best Management Practices and Measures** of this section.

Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

When soil disturbance activities cease at a location, immediate soil stabilization actions will be implemented. 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 entire limits of construction will be reseeded once construction is complete.

Prior to Disturbance – Install all temporary erosion and sedimentation control features as described in the plans. Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

During Construction – All temporary erosion and sedimentation control devices shall be maintained and inspected. Inspect all temporary erosion and sedimentation control devices in accordance with applicable laws and Attachment I. 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.

Post Construction – Stabilize all areas disturbed during construction on the project site and adjacent areas. Permanent seeding shall be applied immediately after final design grades are achieved but no later than 14 days after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated will be removed and hauled off-site for disposal. Construction debris, trash and temporary BMPs including silt fences, material storage areas, sanitary toilets, etc.) will also be removed and any areas disturbed during removal will be seeded immediately.

SECTION 6

Permanent Stormwater Section Exception

Permanent Stormwater

No permanent BMP's are being changed or added as a result of this project. The Permanent Stormwater Section (TCEQ-0600) is not necessary.

SECTION 7

Agent Authorization
TCEQ-0599

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

I The Honorable Bill Gravell Jr. ,
Print Name

Title - Owner/President/Other

of Williamson County ,
Corporation/Partnership/Entity Name

have authorized Anthony Serda, P.E.
Print Name of Agent/Engineer

of STV Infrastructure, Inc.
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Valerie Covey
Applicant's Signature

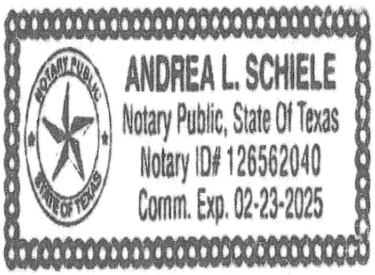
May 8, 2024
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Valerie Covey 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 8th day of May, 2024.



NOTARY PUBLIC

Andrea Schiele
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 02-23-2025

SECTION 8

Application Fee
TCEQ-0574

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Pond Springs Road Drainage Improvements
Regulated Entity Location: Pond Springs Rd from Roxie Dr to 300' S of Turtle Rock Road
Name of Customer: Williamson County
Contact Person: Adam D. Boatright Phone: 512-943-3374
Customer Reference Number (if issued):CN CN600897888
Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays ☐ Travis ☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

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

☒ Austin Regional Office
☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone ☐ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$ 500
Extension of Time	Each	$

Signature: _____ Date: 5/29/2025

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

SECTION 9

Core Data Form
TCEQ-10400

TCEQ Use Only

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600897888		**RN**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☐ 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 Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* — *If new Customer, enter previous Customer below:*

Williamson County

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☒ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

☐ 0-20 ☒ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:

710 Main Street

City	Georgetown	**State**	TX	**ZIP**	78626	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(512) 930-3330		(512) 930-3335

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 Name *(Enter name of the site where the regulated action is taking place.)*

Pond Springs Road Drainage Improvements

23. Street Address of the Regulated Entity: ***(No PO Boxes)***							
	City		**State**		**ZIP**		**ZIP + 4**
24. County	Williamson						

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

25. Description to Physical Location:	Pond Springs Road from Roxie Drive to Lake Creek Tributary 3				
26. Nearest City			**State**	**Nearest ZIP Code**	
Austin			TX	78729	

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	30.446520		**28. Longitude (W) In Decimal:**	97.780146	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	26	47.5	97	46	48.5

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
1611	3531	237310	541330

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Road and Bridge Construction

34. Mailing Address:	**710 Main Street**						
	City	**Georgetown**	**State**	**TX**	**ZIP**	**78626**	**ZIP + 4**
35. E-Mail Address:							

36. Telephone Number	**37. Extension or Code**	**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
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

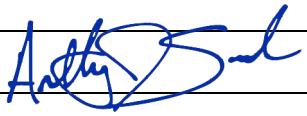
SECTION IV: Preparer Information

40. Name:	Bradley McConnon, P. E.	**41. Title:**	Lead Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512 **)** 340-9800		**( )** -	bradley.mcconnon@stvinc.com

SECTION V: Authorized Signature

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

Company:	STV, Inc.	**Job Title:**	Principal	
Name *(In Print):*	Anthony Serda, P. E.		**Phone:**	**(** 512 **)** 241- **2228**
Signature:			**Date:**	5/29/2025