RECHARGE ZONE EXCEPTION REQUEST

FOR

ROUND ROCK TOWN GREEN

100 WEST MAIN STREET

ROUND ROCK, TEXAS 78664

Prepared for:

THE CITY OF ROUND ROCK

Rick Atkins

301 Bagdad Ave.

Round Rock, Texas 78664

Prepared by:

WAELTZ & PRETE, INC.

Antonio A. Prete, P.E.

211 N. A.W. Grimes Blvd.

Round Rock, Texas 78665

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

April 2025
Job No. 202-001

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.

<table>
<tr><td colspan="6">1. Regulated Entity Name:
Round Rock Town Green</td><td colspan="4">2. Regulated Entity No.:</td></tr>
<tr><td colspan="6">3. Customer Name:
City of Round Rock</td><td colspan="4">4. Customer No.: CN600413181</td></tr>
<tr><td>5. Project Type:
(Please circle/check one)</td><td colspan="2">New</td><td colspan="3">Modification</td><td>Extension</td><td>Exception √</td><td colspan="2"></td></tr>
<tr><td>6. Plan Type:
(Please circle/check one)</td><td>WPAP</td><td>CZP</td><td>SCS</td><td>UST</td><td>AST</td><td>EXP √</td><td>EXT</td><td>Technical Clarification</td><td>Optional Enhanced Measures</td></tr>
<tr><td>7. Land Use:
(Please circle/check one)</td><td colspan="2">Residential</td><td colspan="3">Non-residential √</td><td colspan="2">8. Site (acres):</td><td colspan="2">1.66 AC.</td></tr>
<tr><td>9. Application Fee:</td><td colspan="2">$ 500</td><td colspan="4">10. Permanent BMP(s):</td><td colspan="2">n/a</td></tr>
<tr><td>11. SCS (Linear Ft.):</td><td colspan="2">n/a</td><td colspan="4">12. AST/UST (No. Tanks):</td><td colspan="2">n/a</td></tr>
<tr><td>13. County:</td><td colspan="2">Williamson</td><td colspan="4">14. Watershed:</td><td colspan="2">Brushy Creek</td></tr>
</table>

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

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. Antonio A. Prete, P.E.
Print Name of ~~Customer~~/Authorized Agent Signature of ~~Customer~~/Authorized Agent Date: 04/11/2025

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):	

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.

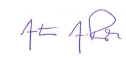
Signature

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: Antonio A. Prete, P.E.

Date: 04/11/2025

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Round Rock Town Green
2. County: Williamson
3. Stream Basin: Lake Creek - Brushy Creek
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: Rick Atkins
Entity: City of Round Rock
Mailing Address: 301 E. Bagdad Ave
City, State: Round Rock, Texas Zip: 78664
Telephone: 512-341-3344 FAX: _____
Email Address: ricka@roundrocktexas.gov

8. Agent/Representative (If any):

Contact Person: Antonio A. Prete. P.E.
Entity: Waeltz & Prete, Inc
Mailing Address: 211 N. A.W. Grimes Blvd.
City, State: Round Rock, Texas Zip: 78665
Telephone: (512) 505-8953 FAX: _____
Email Address: tony@w-pinc.com

9. Project Location:

☒ The project site is located inside the city limits of Round Rock.
☐ 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.

The location of this project is encompassed by Main St., Mays St., W. Liberty Ave., and S. Blair St. in downtown Round Rock. The Round Eock water tower is located on this site.

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: Survey stacking completed.

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.

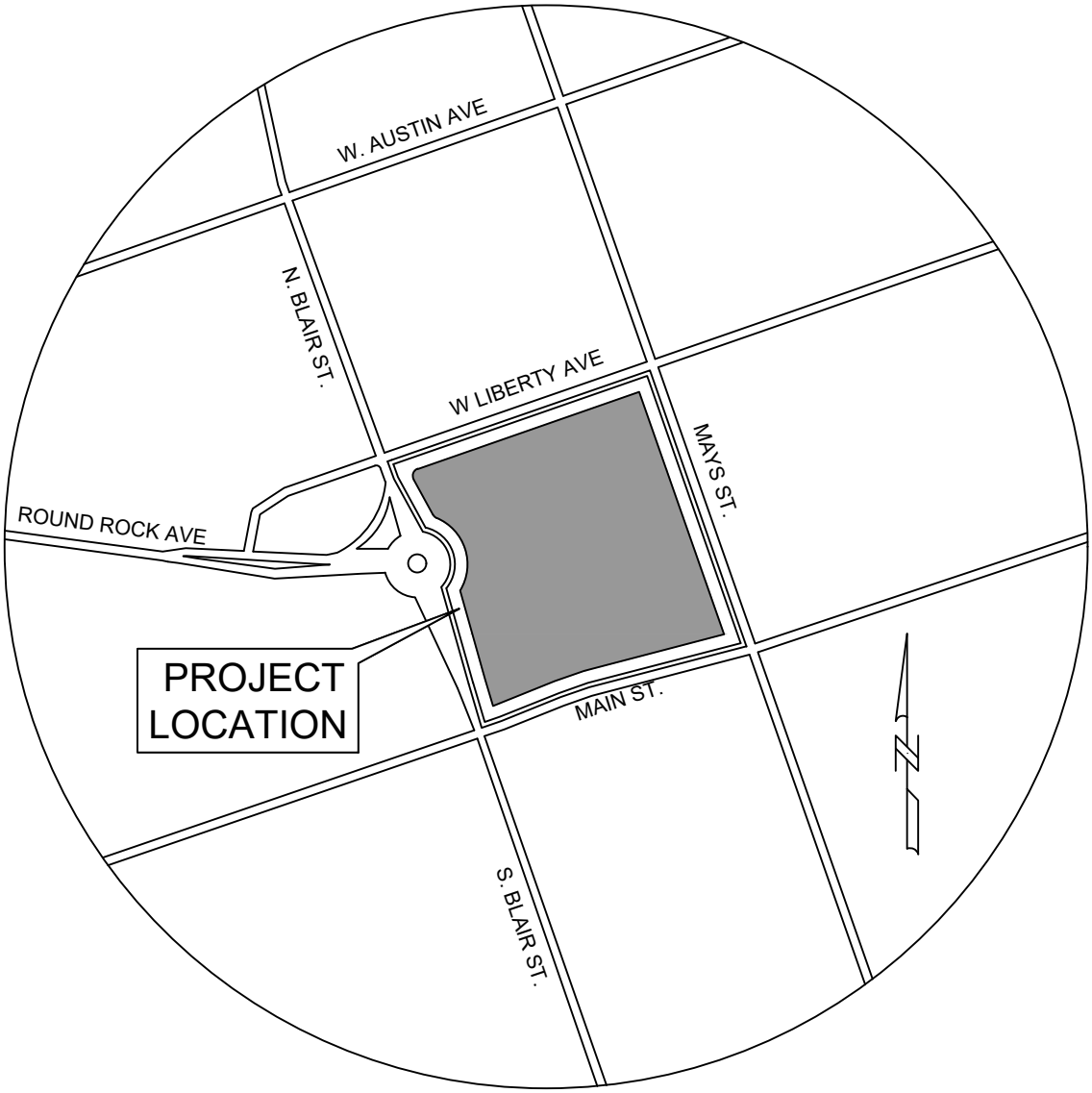
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

- ☐ 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

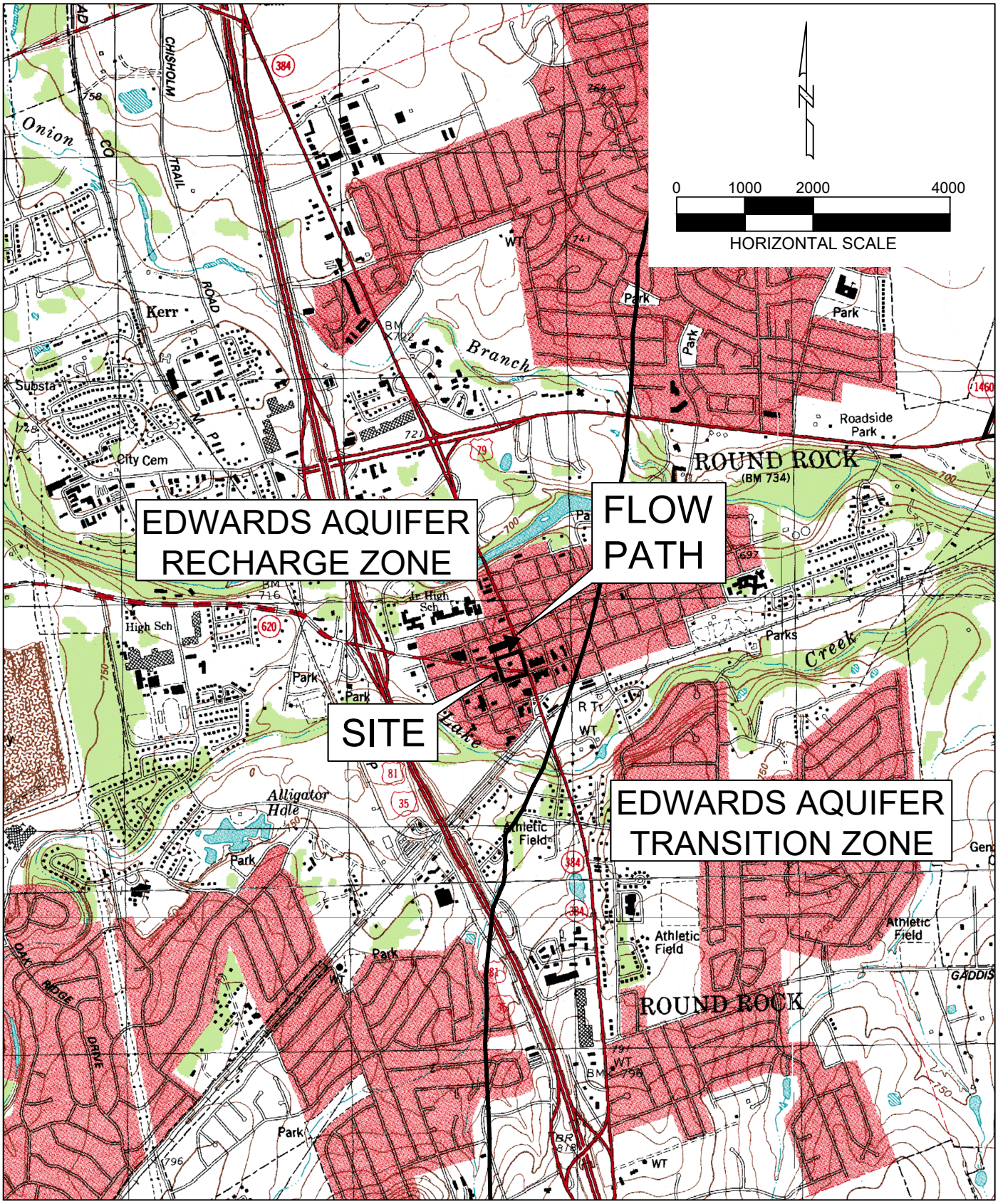


LOCATION MAP
NTS

ATTACHMENT "A"
ROAD MAP
ROUND ROCK
TOWN GREEN

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

ATTACHMENT “B” – USGS/EDWARDS RECHARGE ZONE MAP



WAELTZ & PRETE, INC.
CIVIL ENGINEERS

211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

USGS - 7 1/2 MIN.
EDWARDS RECHARGE ZONE MAP
ROUND ROCK TOWN GREEN
ROUND ROCK, TX

ATTACHMENT "C" – PROJECT DESCRIPTION

We are submitting an Exception Request to a Water Pollution Abatement Plan (EXP) for a 1.66 acre tract of land located at 100 W. Main Street Round Rock, Texas 78664. The site is located within the city limits of Round Rock & Edward's Aquifer Recharge Zone.

The existing site includes the city of Round Rock's Koughan Memorial Water Tower Park, a +/- 4,200 sf building, concrete, gravel, and asphaltic parking areas, sidewalks, and utilities throughout.

The site was developed prior to 1986, prior to the Edwards Aquifer Protection Program regulating construction activities. In 2013 a portion of the 1.66 acre tract was included as a part of an exception request under EAPP ID No. 11-13052104 where a portion of Round Rock Ave. was demolished and revegetated. No BMP's or increase in impervious cover were proposed. The remainder of the site has yet to be regulated by the TCEQ.

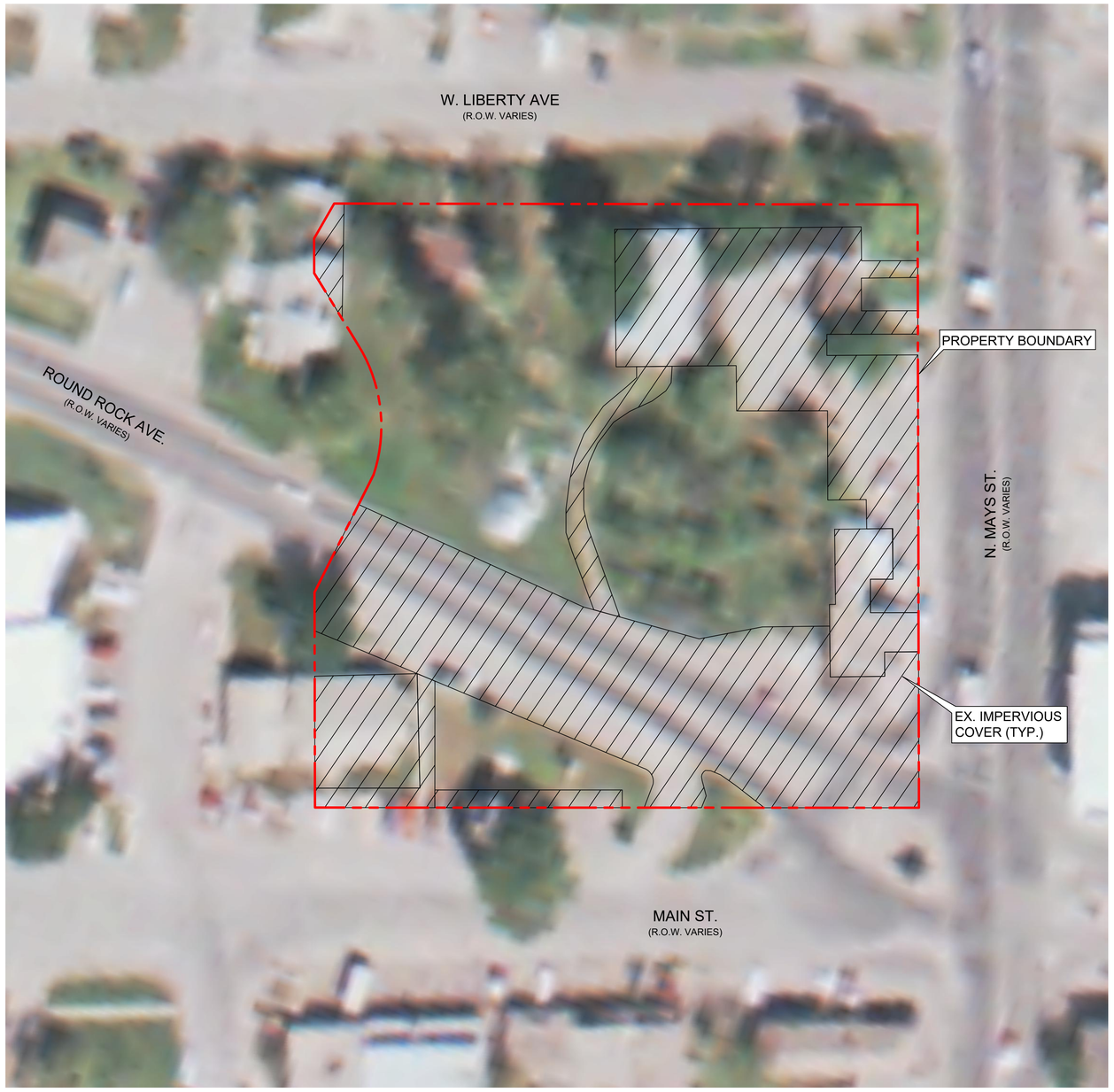
The existing site developed prior to 1986 is shown in the 1985 aerial and impervious cover takeoff exhibit attached directly behind this sheet. Per the exhibit the 1.66 acre site contains a total of ±0.83 acres (50.00%) of impervious cover.

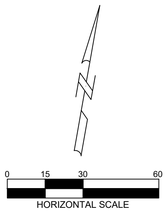
The proposed development will include demolishing a portion of the existing building with renovations, installation of an artificial turf area, sidewalks, decks, water & wastewater services, storm sewer systems, signage, grading, landscaping and irrigation. The proposed 1.66 acre site will contain a total of 0.77 acres (46.38%) impervious cover.

In summary, we are requesting an exception to any new permanent best management practices for the 1.66 acre site as the total impervious cover for the proposed site (0.77 acres) is less than the impervious cover of the pre-1986 site (0.83 acres). With no increase in impervious cover, no new permanent best management practices are required for this development.

In addition, we would like to also request an exception request to no new geological assessment given this site has been previously developed, no karst features have been found near or around the site, and per *TCEQ RG-348B Appendix B Figure 2.4 Karst Zones in Travis and Williamson Counties (USFWS,1992)* our development lies within zone 4. Zone 4 are areas, largely non-cavernous, that do not contain endangered karst invertebrates.

All referenced exhibits and exception requests are attached directly behind this page. Construction plans are being submitted in conjunction with the Exception Request to a Water Pollution Abatement Plan (EXP).





LEGEND

EX. IMPERVIOUS COVER

NOTE:

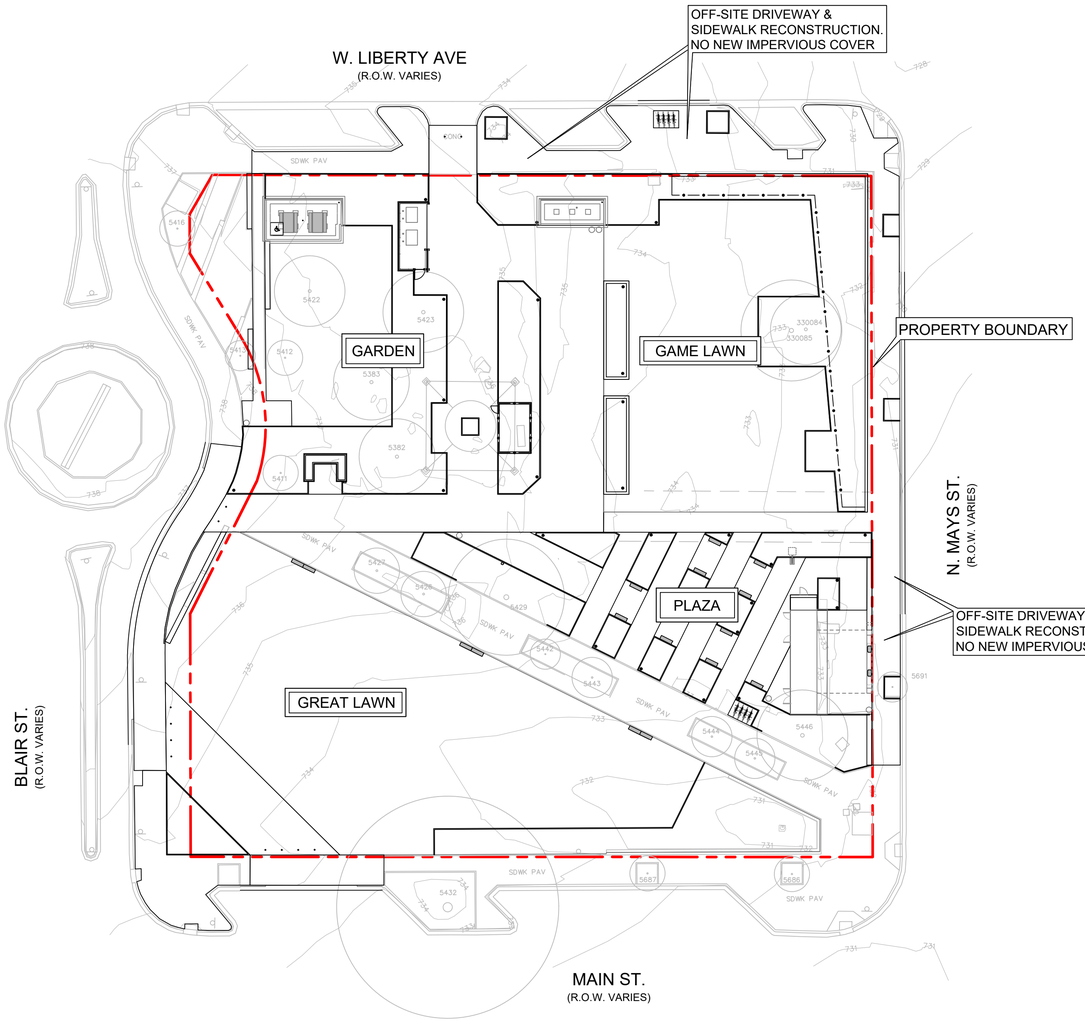
1. THE AERIAL IMAGE DEPICTED IS FROM 1985 PER HISTORICAL AERIAL PHOTOS.

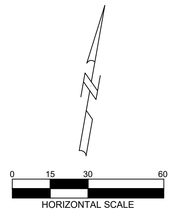
EXISTING
IMPERVIOUS COVER TAKEOFF

TOTAL AREA [AC.]	IMPERVIOUS COVER [AC.]	[%]
1.66 AC.	0.83 AC.	50.00%

ROUND ROCK
TOWN GREEN
1985 AERIAL IMAGE
IMPERVIOUS COVER TAKEOFF

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308





PROPOSED
IMPERVIOUS COVER TAKEOFF

TOTAL AREA [AC.]	IMPERVIOUS COVER [AC.]	[%]
1.66 AC.	0.77 AC.	46.38%

ROUND ROCK TOWN GREEN PROPOSED IMPERVIOUS COVER TAKEOFF

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 5, 2013

Mr. Gary Hudder, Transportation Director
City of Round Rock
221 E. Main St.
Round Rock, TX 78664

Re: Edwards Aquifer, Williamson County

NAME OF PROJECT: Round Rock Ave. Demo; Located along Round Rock Ave. between Mays St. and Blair St.; Round Rock, Texas

TYPE OF PLAN: Request for Approval of An Exception of Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Edwards Aquifer Protection Program ID No. 11-13052104; Investigation No. 1094325; Regulated Entity No. RN106755424

Dear Mr. Hudder:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the Exception Request of WPAP for the above-referenced project submitted to the Austin Regional Office by Huggins/Seiler & Associates, L. P. on behalf of City of Round Rock on May 21, 2013. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed street project will have an area of about 0.15 acres. It will include obliteration of the existing pavement of Round Rock Avenue from Mays St. to Blair St. Top soil will be added to the site for grass seeding. No wastewater is generated by this project.

PERMANENT POLLUTION ABATEMENT MEASURES

The pavement from that street segment will be removed and then be re-vegetated. There is no increase of impervious cover and no permanent BMPs are proposed.

It is the opinion of the TCEQ that this request will not result in a significant increase in the potential for pollution of the Edwards Aquifer; therefore, the request for an exception to the Edwards Aquifer Protection Rules requiring the approval of a WPAP prior to commencing regulated activities is hereby granted

GEOLOGY

The site was disturbed before and is currently used as a street. As such, a geologic assessment is exempted.

STANDARD CONDITIONS

1. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.

Prior to Commencement of Construction:

2. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
3. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
4. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

5. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management

practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.

6. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

7. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

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

Sincerely,

Carolyn Runyon, Water Section Manager
Austin Region Office
Texas Commission on Environmental Quality

CDR/ld

cc: Mr. Billy L. Huggins, Huggins/Seiler & Associates, L. P.
Mr. Joe M. England, P.E., Williamson County Engineer
Ms. Alysha Girard, P.E., Storm Water Manager, City of Round Rock
Records, Building F, MC212 TCEQ Central

GEOLOGIC ASSESSMENT

A Geologic Assessment was not prepared for this submittal. We are requesting an exception request to no new geological assessment given this site has been previously developed, no karst features have been found near or around the site, and per *TCEQ RG-348B Appendix B Figure 2.4 Karst Zones in Travis and Williamson Counties (USFWS,1992)* our development lies within zone 4. Zone 4 are areas, largely non-cavernous, that do not contain endangered karst invertebrates.

Supporting exhibits have been prepared and included directly behind this page.

Zone 3: Areas that probably do not contain endangered karst dwelling species or their habitat, and

Zone 4: Areas, largely non-cavernous, that do not contain endangered karst invertebrates.

The location of these zones is presented in Figure 2-4. Geographic Information System (GIS) Shape files for Karst Zones are available at <www.fws.gov/ifw2es/austintexas/>. Together, Zones 1 and 2 comprise about 55,000 acres in Travis County and about 100,000 acres in Williamson County.

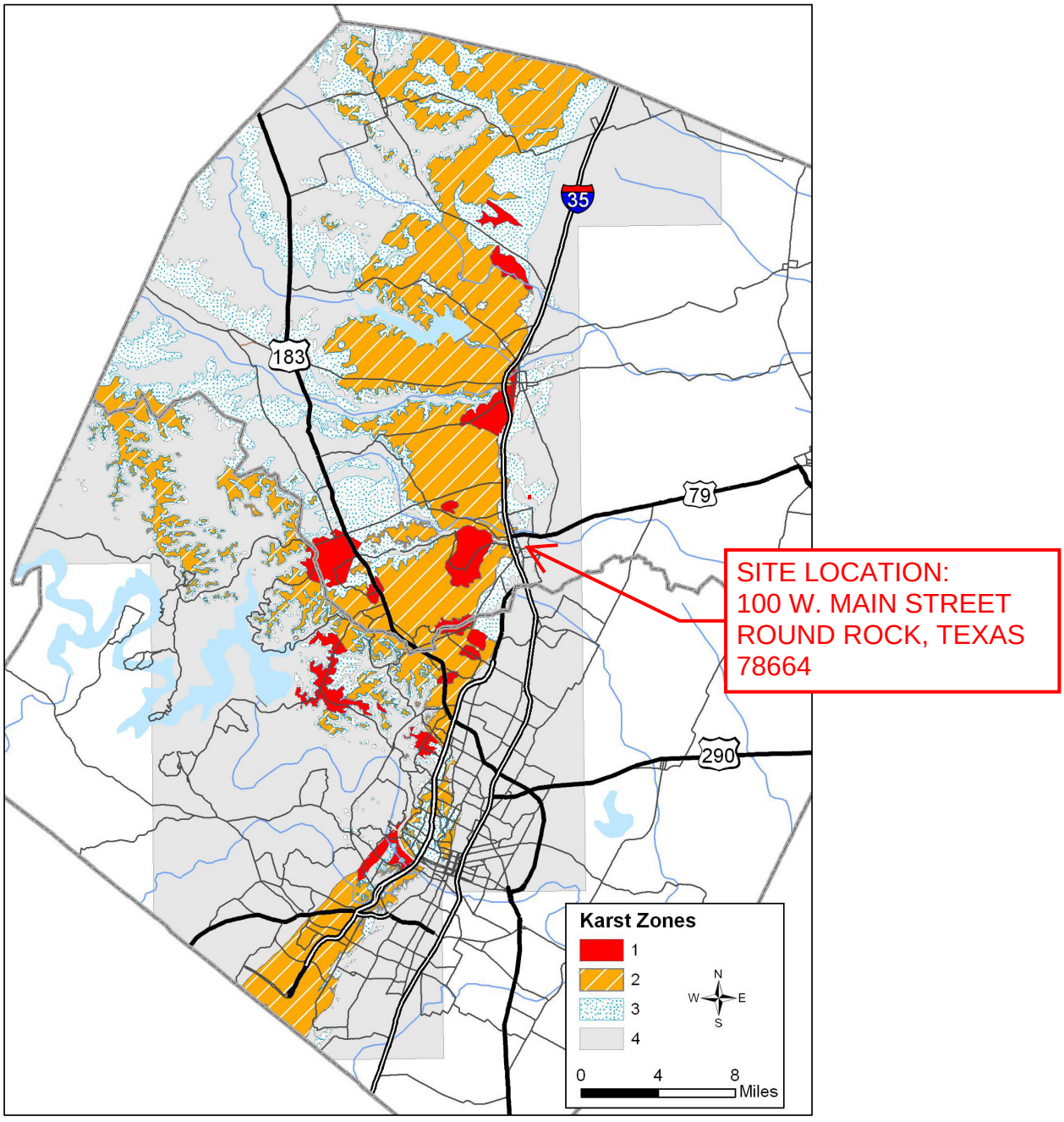


Figure 2-4. Karst Zones in Travis and Williamson Counties (USFWS, 1992)

jwoytek w-pinc.com

From: James Slone <james.slone@tceq.texas.gov>
Sent: Thursday, May 1, 2025 9:40 AM
To: jwoytek w-pinc.com
Cc: tony w-pinc.com; EAAdmin
Subject: RE: Round Rock Town Green EXCWPAP - Administrative NOD

You can submit the application with the exception to the Geologic Assessment. Please retain this email for your records and submit it with your application . Feel free to reach out if you need anything else.
Bo

James “Bo” Slone, P.G.
Team Leader
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality
(512) 239-6994

From: jwoytek w-pinc.com <jwoytek@w-pinc.com>
Sent: Wednesday, April 30, 2025 5:33 PM
To: James Slone <james.slone@tceq.texas.gov>
Cc: tony w-pinc.com <tony@w-pinc.com>; EAAdmin <EAAdmin@tceq.texas.gov>
Subject: RE: Round Rock Town Green EXCWPAP - Administrative NOD

James,

Good afternoon.

We are requesting an exception to a Geologic Assessment.
I will share our TCEQ submittal with you through the FTP Site. (The submittal contains our request & exhibits, plan, etc…)

As a quick overview… the project is located @ 100 W. Main St Round Rock Texas 78665.
@ the existing water tower in downtown round rock.

The project area has been fully developed and lies within zone 4 of the TCEQ RG-34B Appendix B Figure 2.4 Karst Zone in Travis counties (USFWS.1992).
These areas are largely non-cavernous, that do not contain endangered karst invertebrates. No karst features have been found in the area.

I believe our development qualifies for exemption of a GA? Can you please confirm?
Let us know if you have any questions.

Thank you,
-Jacob

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: Antonio A. Prete, P.E.
Date: 04/11/2025
Signature of Customer/Agent:

Regulated Entity Name: Round Rock Town Green

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

We are submitting an Exception Request to a Water Pollution Abatement Plan (EXP) for a 1.66 acre tract of land located at 100 W. Main Street Round Rock, Texas 78664. The site is located within the city limits of Round Rock & Edward's Aquifer Recharge Zone.

The existing site includes the city of Round Rock's Koughan Memorial Water Tower Park, a +/- 4,200 sf building, concrete, gravel, and asphaltic parking areas, sidewalks, and utilities throughout.

The site was developed prior to 1986, prior to the Edwards Aquifer Protection Program regulating construction activities. In 2013 a portion of the 1.66 acre tract was included as a part of an exception request under EAPP ID No. 11-13052104 where a portion of Round Rock Ave. was demolished and revegetated. No BMP's or increase in impervious cover were proposed. The remainder of the site has yet to be regulated by the TCEQ.

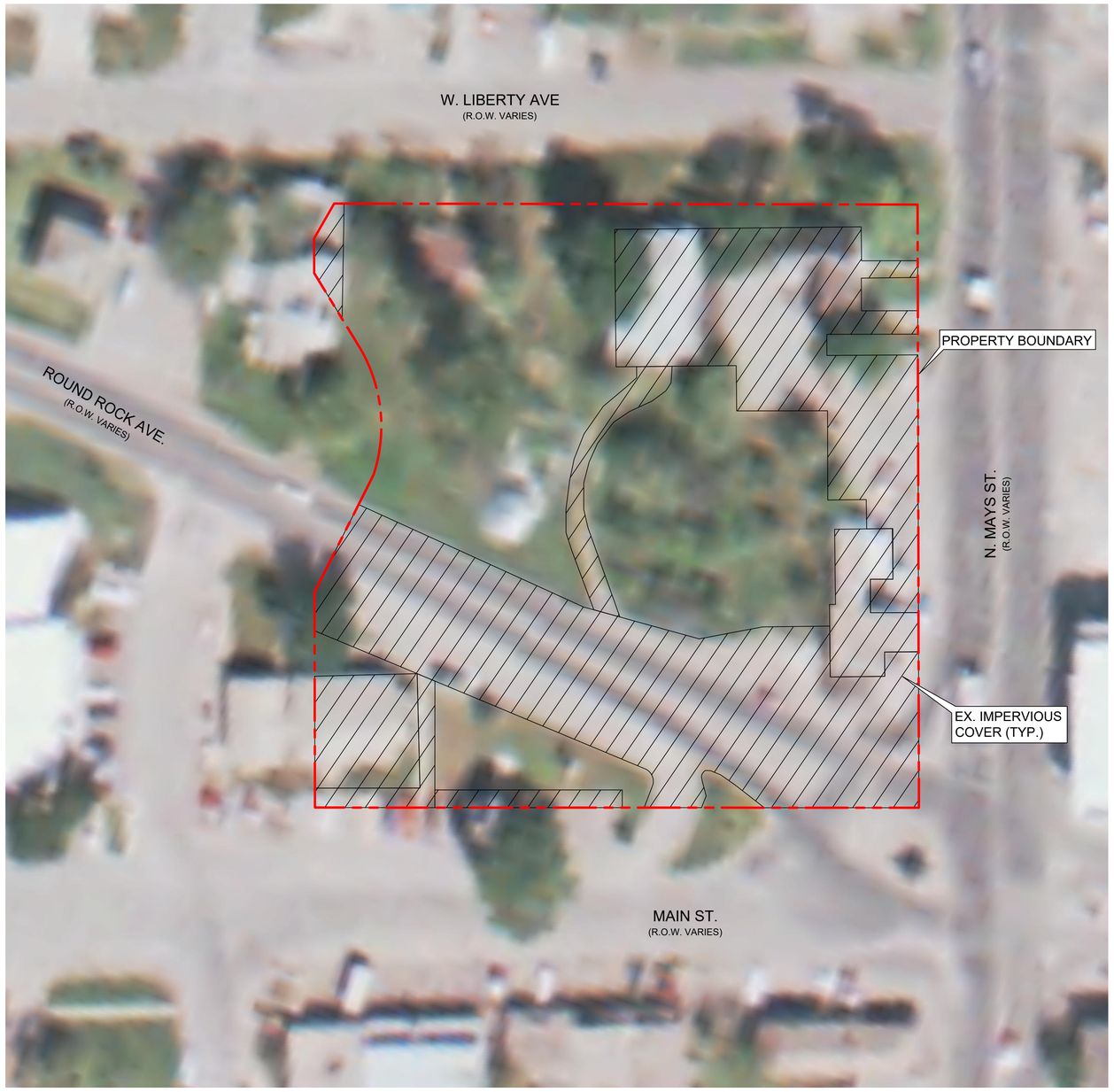
The existing site developed prior to 1986 is shown in the 1985 aerial and impervious cover takeoff exhibit attached directly behind this sheet. Per the exhibit the 1.66 acre site contains a total of ±0.83 acres (50.00%) of impervious cover.

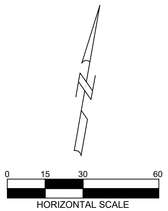
The proposed development will include demolishing a portion of the existing building with renovations, installation of an artificial turf area, sidewalks, decks, water & wastewater services, storm sewer systems, signage, grading, landscaping and irrigation. The proposed 1.66 acre site will contain a total of 0.77 acres (46.38%) impervious cover.

In summary, we are requesting an exception to any new permanent best management practices for the 1.66 acre site as the total impervious cover for the proposed site (0.77 acres) is less than the impervious cover of the pre-1986 site (0.83 acres). With no increase in impervious cover, no new permanent best management practices are required for this development.

In addition, we would like to also request an exception request to no new geological assessment given this site has been previously developed, no karst features have been found near or around the site, and per *TCEQ RG-348B Appendix B Figure 2.4 Karst Zones in Travis and Williamson Counties (USFWS,1992)* our development lies within zone 4. Zone 4 are areas, largely non-cavernous, that do not contain endangered karst invertebrates.

All referenced exhibits and exception requests are attached directly behind this page. Construction plans are being submitted in conjunction with the Exception Request to a Water Pollution Abatement Plan (EXP).





LEGEND

EX. IMPERVIOUS COVER

NOTE:

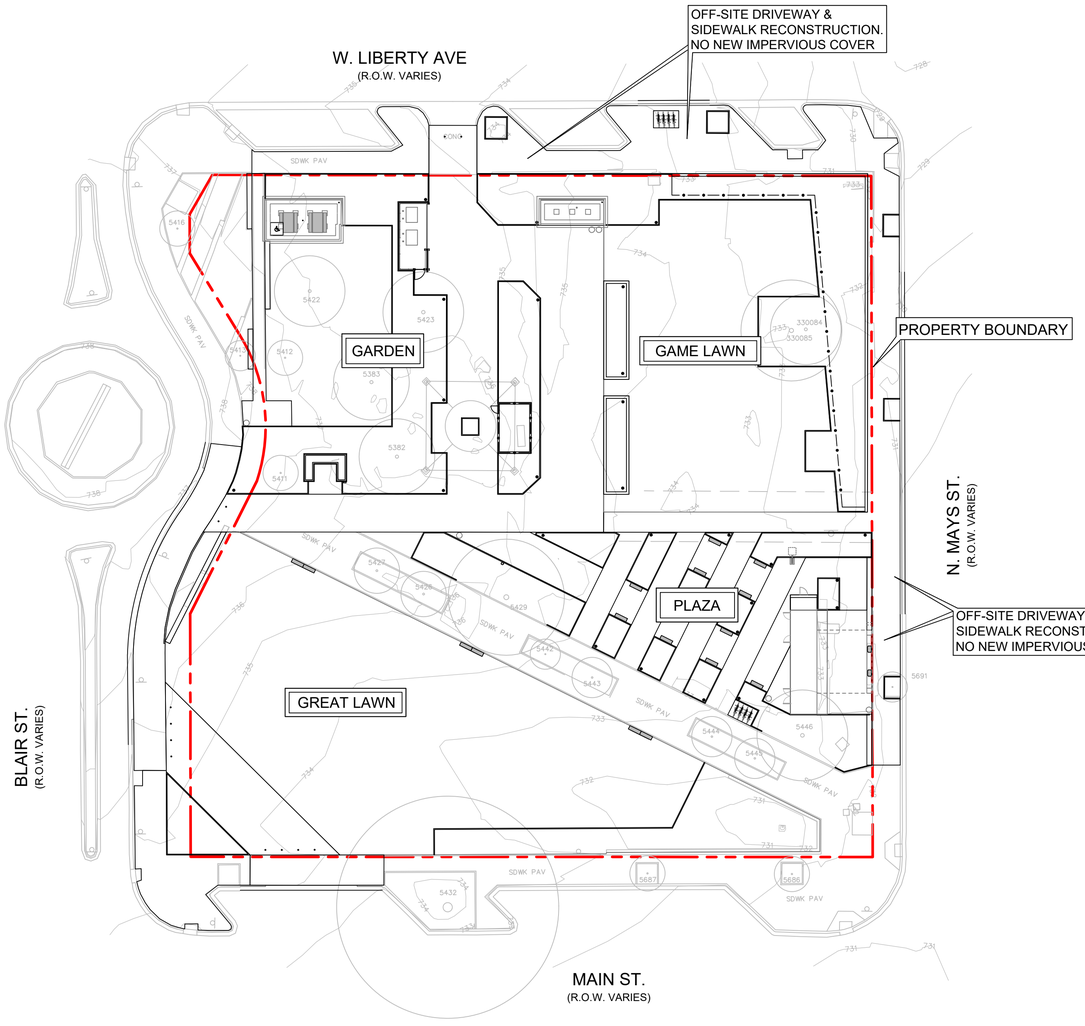
1. THE AERIAL IMAGE DEPICTED IS FROM 1985 PER HISTORICAL AERIAL PHOTOS.

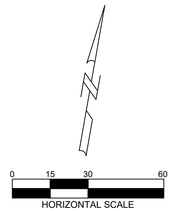
EXISTING
IMPERVIOUS COVER TAKEOFF

TOTAL AREA [AC.]	IMPERVIOUS COVER [AC.]	[%]
1.66 AC.	0.83 AC.	50.00%

ROUND ROCK
TOWN GREEN
1985 AERIAL IMAGE
IMPERVIOUS COVER TAKEOFF

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308





PROPOSED
IMPERVIOUS COVER TAKEOFF

TOTAL AREA [AC.]	IMPERVIOUS COVER [AC.]	[%]
1.66 AC.	0.77 AC.	46.38%

ROUND ROCK TOWN GREEN PROPOSED IMPERVIOUS COVER TAKEOFF

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 5, 2013

Mr. Gary Hudder, Transportation Director
City of Round Rock
221 E. Main St.
Round Rock, TX 78664

Re: Edwards Aquifer, Williamson County

NAME OF PROJECT: Round Rock Ave. Demo; Located along Round Rock Ave. between Mays St. and Blair St.; Round Rock, Texas

TYPE OF PLAN: Request for Approval of An Exception of Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Edwards Aquifer Protection Program ID No. 11-13052104; Investigation No. 1094325; Regulated Entity No. RN106755424

Dear Mr. Hudder:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the Exception Request of WPAP for the above-referenced project submitted to the Austin Regional Office by Huggins/Seiler & Associates, L. P. on behalf of City of Round Rock on May 21, 2013. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed street project will have an area of about 0.15 acres. It will include obliteration of the existing pavement of Round Rock Avenue from Mays St. to Blair St. Top soil will be added to the site for grass seeding. No wastewater is generated by this project.

PERMANENT POLLUTION ABATEMENT MEASURES

The pavement from that street segment will be removed and then be re-vegetated. There is no increase of impervious cover and no permanent BMPs are proposed.

It is the opinion of the TCEQ that this request will not result in a significant increase in the potential for pollution of the Edwards Aquifer; therefore, the request for an exception to the Edwards Aquifer Protection Rules requiring the approval of a WPAP prior to commencing regulated activities is hereby granted

GEOLOGY

The site was disturbed before and is currently used as a street. As such, a geologic assessment is exempted.

STANDARD CONDITIONS

1. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.

Prior to Commencement of Construction:

2. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
3. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
4. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

5. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management

practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.

6. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

7. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

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

Sincerely,

Carolyn Runyon, Water Section Manager
Austin Region Office
Texas Commission on Environmental Quality

CDR/ld

cc: Mr. Billy L. Huggins, Huggins/Seiler & Associates, L. P.
Mr. Joe M. England, P.E., Williamson County Engineer
Ms. Alysha Girard, P.E., Storm Water Manager, City of Round Rock
Records, Building F, MC212 TCEQ Central

ATTACHMENT “B” – Documentation of Equivalent Water Quality Protection

We are requesting an exception to any new permanent best management practices for the 1.66 acre site as the total impervious cover for the proposed site (0.77 acres) is less than the impervious cover of the pre-1986 site (0.83 acres). With no increase in impervious cover, no new permanent best management practices are required for this development.

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: Antonio A. Prete, P.E.

Date: 04/11/2025

Signature of Customer/Agent:

Regulated Entity Name: Round Rock Town Green

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: Gasoline

   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: Lake Creek- Brushy Creek

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

1.4.16 Spill Prevention and Control

The objective of this section is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

The following steps will help reduce the stormwater impacts of leaks and spills:

Education

(1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.

(2) Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.

(3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).

(4) Establish a continuing education program to indoctrinate new employees.

(5) Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

General Measures

(1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.

(2) Store hazardous materials and wastes in covered containers and protect from vandalism.

(3) Place a stockpile of spill cleanup materials where it will be readily accessible.

(4) Train employees in spill prevention and cleanup.

(5) Designate responsible individuals to oversee and enforce control measures.

(6) Spills should be covered and protected from stormwater runon during rainfall to the extent that it doesn't compromise clean up activities.

(7) Do not bury or wash spills with water.

(8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the revisions in applicable BMPs.

(9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.

(10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.

(11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.

(12) Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

(1) Clean up leaks and spills immediately.

(2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.

(3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills

(1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.

(2) Use absorbent materials on small spills rather than hosing down or burying the spill.

(3) Absorbent materials should be promptly removed and disposed of properly.

(4) Follow the practice below for a minor spill:

(5) Contain the spread of the spill.

(6) Recover spilled materials.

(7) Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately:

(1) Contain spread of the spill.

(2) Notify the project foreman immediately.

(3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.

(4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

(5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

(1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.

(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

(3) Notification should first be made by telephone and followed up with a written report.

(4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.

(5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at: http://www.tnrcc.state.tx.us/enforcement/emergency_response.html

ATTACHMENT “B”

POTENTIAL SOURCES OF CONTAMINATION

Potential sources of contamination from this site include hydrocarbon residue, emissions from vehicles, asphaltic products used for paved surfaces, and tracking of silt onto paved surfaces by construction equipment.

ATTACHMENT “C”

SEQUENCE OF MAJOR ACTIVITIES

Activity	**Area**
Install Erosion Controls	± 2.26 ac (Limits of Construction)
Clearing / Grubbing	± 2.26 ac (Limits of Construction)
Fill / Excavation (Grading)	± 2.26 ac (Limits of Construction)
Utility Installation	± 0.50 ac
Paving / Infrastructure	± 1.00 ac
Revegetation	± 2.26 ac (Limits of Construction)

NOTE: There are no common drainage areas containing more than 10 acres of disturb area.

ATTACHMENT “D”

TEMPORARY BEST MANAGEMENT PRACTICES & MEASURES

The TBMP’s are to be installed prior to any site activities and will be in place for all sequenced activities. This includes the placement of temporary inlet protection, stabilized construction entrance, concrete washout area, and silt fencing on the down gradient side of the site to prevent any silted run-off to water surfaces and to prevent any erosion or disturbance to vegetation.

Post construction of improvements and prior to project acceptance, the limits of disturbance shall be revegetated.

ATTACHMENT “E”

REQUEST TO TEMPORARILY SEAL A FEATURE

A request to temporarily seal a feature is not being made.

ATTACHMENT “F”

STRUCTURAL PRACTICES

Silt fencing, and inlet protection will be placed on the down gradient side of any exposed soils in order to limit the discharge of silt and pollutants from exposed areas of the site.

ATTACHMENT “G”

DRAINAGE AREA MAP

A drainage area map has been included as part of the construction plans, which has been submitted in conjunction with this Exception Request to a Water Pollution Abatement Plan (EXP).

ATTACHMENT “H”

TEMPORARY SEDIMENT POND(S) PLANS & CALCULATIONS

There are no common drainage areas containing more than 10 acres of disturb area. Therefore, a temporary sediment pond is not required for this project

ATTACHMENT "I"

INSPECTION & MAINTENANCE FOR BMPs

SILT FENCES:

Weekly: Accumulated silt shall be removed when it reaches a depth of 6 inches. Silt shall be disposed of in an approved site and in such a manner as to not contribute to additional siltation. Repair and replace any damaged section resulting from construction activity or other cases.

After Rainfall: Fences shall be checked for structural damage from stormwater flows immediately after a significant (≥ 0.5 inch) rainfall as soon as ground conditions make fences accessible (usually within 24 hours). Should there be prolonged rainfall, inspections should be conducted without vehicles and temporary repairs made until equipment can be brought in without major surface damage. Remove accumulated silt when depth reaches 6 inches and dispose of as indicated in Weekly maintenance.

Adjust fence configuration if necessary after rainfall event to accommodate conditions defined by stormwater flows.

STABILIZED CONSTRUCTION ENTRANCE:

Weekly: The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public roadways. If necessary, top dress with additional stone and repair and/or cleanout any measures used to trap sediment.

After Rainfall: Immediately after a significant rainfall (≥ 0.5 inch), as soon as ground conditions make stabilized construction entrance accessible (usually within 24 hours), the same inspection and maintenance procedures for the weekly requirements shall be performed.

CONCRETE TRUCK WASHOUT:

Daily: The washout lining and sidewalls shall be inspected for damages and leaks. Repair and replace any damages resulting from construction activity or other cases. Ensure the washout area does not exceed 75% capacity. If 75% capacity is exceeded, the wash water should be vacuumed off or allowed to evaporate to avoid overflows. Once the remaining cementitious solids have hardened, they shall be removed and recycled.

Before Rainfall: Prior to a heavy rainfall, the washout's liquid level should be lowered or the washout area should be covered.

After Rainfall: Immediately after a significant rainfall (≥ 0.5 inch), as soon as ground conditions are accessible (usually within 24 hours), the same inspection and maintenance procedures for the daily requirements shall be performed.

RECORD KEEPING:

Project superintendent shall have a log for entering site inspections for both weekly and rainfall events. Results of inspections including damage and recommended repairs shall be noted, along with inspection personnel data and date of remedial action taken.

INLET PROTECTION:

Weekly: Accumulated silt shall be removed when it reaches a depth of 3 inches. Silt shall be disposed of in an approved site and in such a manner as to not contribute to erosion. Check for gaps within the structure and inlet. Inspect filter fabric. Repair and replace any damaged section resulting from construction activity or other cases.

After Rainfall: Fences shall be checked for structural damage from stormwater flows immediately after a significant ($\geq$ 0.5 inch) rainfall as soon as ground conditions are accessible (usually within 24 hours). Should there be prolonged rainfall, inspections should be conducted without vehicles and temporary repairs made until equipment can be brought in without major surface damage. Remove accumulated silt when depth reaches 3 inches and dispose of as indicated in Weekly maintenance.

RECORD KEEPING:

Project superintendent shall have a log for entering site inspections for both weekly and rainfall events. Results of inspections including damage and recommended repairs shall be noted, along with inspection personnel data and date of remedial action taken.

ATTACHMENT “J”

SCHEDULE OF INTERIM & PERMANENT SOIL STABLIZATION PRACTICES

Interim soil stabilization shall be instituted whenever an area has been disturbed and there is a lapse of twenty-one consecutive days when no construction activities have occurred on that location or if any area is not scheduled for final construction activities to occur later than twenty-one days after last disturbance.

Post final grading, permanent soil stabilization shall occur at the first practical opportunity after the completion of construction activities in an area (Within fourteen days). Records must be kept as to when each soil stabilization measure was instituted in each area.

Hydro-mulch shall be utilized for permanent soil stabilization, unless otherwise noted. Reference erosion & sedimentation notes and details in the construction plans.

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

I Brooks Bennett,
Print Name

City Manager
Title - Owner/President/Other

of City of Round Rock,
Corporation/Partnership/Entity Name

have authorized Antonio A. Prete, P.E.
Print Name of Agent/Engineer

of Waeltz & Prete, Inc.
Print Name of Firm

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

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

03/07/25
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Brooks Bennett 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 7th day of March, 2025.

MONIQUE ADAMS
My Notary ID # 126257913
Expires March 22, 2026

Monique Adams
NOTARY PUBLIC

MONIQUE ADAMS
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 3/22/2026

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Round Rock Town Green
Regulated Entity Location: 100 W. Main St. Round Rock Texas, 78664
Name of Customer: City of Round Rock
Contact Person: Rick Atkins Phone: 512-341-3344
Customer Reference Number (if issued):CN CN600413181
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	1 Each	$ 500
Extension of Time	Each	$

Signature: _____ Date: 04/11/2025

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

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of 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 **Exception Request**

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 600413181		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:*

City of Round Rock

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 ☐ 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 ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:

301 W. Bagdad Ave

City	State	ZIP	ZIP + 4
Round Rock	TX	78664	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	ricka@roundrocktexas.gov

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 341-3344		( ) -

SECTION III: Regulated Entity Information

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

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

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

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

Round Rock Town Green

23. Street Address of the Regulated Entity: *(No PO Boxes)*	100 W Main St.						
	City	Round Rock	State	TX	ZIP	78664	ZIP + 4
24. County	Williamson						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	At the Memorial water town downtown Round Rock

26. Nearest City	State	Nearest ZIP Code
Round Rock	Tx	78665

27. Latitude (N) In Decimal:	30.548078		28. Longitude (W) In Decimal:	-97.671598	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	30	32	97	40	46

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)
7999		924120	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

34. Mailing Address:	n/a						
	City		State		ZIP		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	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Antonio A. Prete, P.E.	41. Title:	President

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 505-8953		( ) -	tony@w-pinc.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:	Waeltz & Prete, Inc.	Job Title:	Presiddent
Name*(In Print)* :	Antonio A. Prete, P.E.	Phone:	(512) 505-8953
Signature:		Date:	30 April 25

SITE DEVELOPMENT PLANS FOR:

ROUND ROCK TOWN GREEN

REMNANT PORTION OF
LOT 1, BLOCK A (3.866 AC.)
CIRKIEL COMMONS SUBDIVISION

100 WEST MAIN STREET
ROUND ROCK, TEXAS 78664

APRIL, 2025

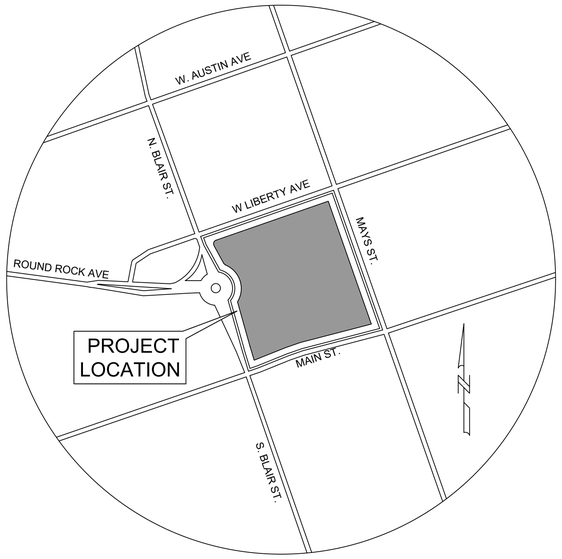
DESIGN PROFESSIONALS:

CIVIL ENGINEER / APPLICANT:

ANTONIO A. PRETE, P.E.
WAELTZ & PRETE, INC.
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TEXAS 78665
PH: (512) 505-8953
EMAIL: tony@w-pinc.com

IMPERVIOUS COVER

	EXISTING PRE-1986	PROPOSED
PUBLIC SIDEWALK, STREETS, CURB & GUTTER	-----	-----
BUILDING FOOTPRINT (WITHIN LIMITS OF LOT ONLY)	4,145 SF (0.10 AC.)	450 SF (0.01 AC.)
PARKING, PRIVATE SIDEWALK (WITHIN LIMITS OF LOT ONLY)	32,010 SF (0.73 AC.)	33,090 SF (0.76 AC.)
TOTAL	36,155 SF (0.83 AC.)	33,560 SF (0.77 AC.)
TOTAL AREA OF DISTURBANCE (LOC)	-----	98,450 SF (2.26 AC.)



LOCATION MAP
NTS

NOTES:

1. THESE PLANS ARE NOT TO BE CONSIDERED FINAL FOR CONSTRUCTION UNTIL ACCEPTED BY THE CITY. CHANGES MAY BE REQUIRED PRIOR TO APPROVAL.
2. A PORTION OF THIS SITE IS WITHIN THE FEMA 1% ANNUAL CHANCE FLOODPLAIN, PER PANEL NUMBER 48491C0491F, DATED DECEMBER 20, 2019.
3. THIS SITE IS LOCATED WITHIN THE EDWARD'S AQUIFER RECHARGE ZONE. WATER QUALITY TREATMENT IS REQUIRED FOR THE SITE.

Texas 811
know what's below.
Call before you dig.

SHEET INDEX

STATE OF TEXAS

COUNTY OF WILLIAMSON

I, ANTONIO A. PRETE, P.E., DO HEREBY CERTIFY THAT THE PUBLIC WORKS AND DRAINAGE IMPROVEMENTS DESCRIBED HEREIN HAVE BEEN DESIGNED IN COMPLIANCE WITH THE SUBDIVISION AND BUILDING REGULATION ORDINANCES AND STORMWATER DRAINAGE POLICY ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER

10 April 25

ANTONIO A. PRETE, P.E.
STATE OF TEXAS #93759
DATE

JOB NO.: 202-001

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF ROUND ROCK MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

ACCEPTED FOR CONSTRUCTION

CITY OF ROUND ROCK, TEXAS — DATE
PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

SWPPP PERMIT # _____
RECORDED PLAT DOC # _____

OWNER:

CITY OF ROUND ROCK
301 WEST BAGDAD AVE.
ROUND ROCK, TEXAS 78665

ENGINEER:

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

REVISIONS:

No.	Date	Revision	ACC.	DATE

HIGHWWAY 79 & A.W. GRIMES BLVD.

City of Round Rock, Texas
General Guidelines
Design and Construction Standards (DACS)
Dated - February 2024

GENERAL NOTES:

1. All construction shall be in accordance with the City of Round Rock (CORR) Design and Construction Standards (DACS) Specifications Manual.
2. Any existing utilities, pavement, curbs, sidewalks, structures, trees, etc. (not planned for demolition or removal) that are damaged or removed, shall be repaired, or replaced, at the Contractor's expense.
3. The Contractor shall verify all depths and locations of existing utilities prior to any construction activities. Any discrepancies with the construction plans found in the field shall immediately be brought to the attention of the Engineer who shall be responsible for revising the plans as appropriate. Failure to complete this step prior to commencement of construction may result in significant delays and/or expenditures for which the City shall not be held liable.
4. Manhole frames, covers, valves, cleanouts, etc. shall be raised to finished grade prior to final paving construction.
5. The Contractor shall provide the City of Round Rock with a 48-hour notice before beginning each phase of construction. Telephone (512) 218-5428 (Planning and Development Services Department – PDS)
6. All areas disturbed or exposed during construction shall be revegetated in accordance with the plans and specifications. This includes any areas located outside of the defined limits of construction (LOC), in rights-of-way (ROW), or located on adjacent properties. Revegetation of all disturbed or exposed areas shall consist of sodding or seeding, at the Contractor's discrepancy, as outlined in the City's Design and Construction Standards. The type of revegetation provided must be equivalent to or exceed the type of vegetation present prior to construction.
7. Prior to any construction, a pre-construction meeting shall be held between the City of Round Rock, the Design Engineer, the Contractor, subcontractors, other utility companies, and any affected parties or other entity the City or Design Engineer deem necessary.
8. The Contractor and the Design Engineer shall keep accurate records of all construction that
9. deviates from the plans. Changes to approved, construction-stamped plans will require a revision from the Design Engineer that is approved by the City prior to field use. The Design Engineer shall furnish the City of Round Rock accurate "As-Built" record drawings following completion of all construction. These "As- Built" record drawings shall meet with the satisfaction of the Planning and Development Services Department prior to final acceptance of the project.
10. The City of Round Rock shall not be petitioned for acceptance until all necessary easement documents have been signed and recorded.
11. Whenever construction activities are taking place within an existing easement, the Contractor shall confine their work to within the bounds of said easement. Prior to final acceptance, the Contractor shall be responsible for removing all trash and debris within any permanent or temporary easements. Clean-up shall be to the satisfaction of the City of Round Rock Civil Inspector and/or the City Engineer.
12. Prior to any construction, the Contractor shall apply for and secure all proper permits from the appropriate authorities.
13. Available permanent benchmarks (City of Round Rock Datum) with vertical datum information that may be utilized for the construction of this project and are described as follows: Reference sheet C-3 for benchmarks.
14. [List any/all benchmarks to be used that include horizontal (ex: NAD 83) and vertical (ex: NAVD88) datums as well as GEOID (ex: .12B)] Reference sheet C-3 for benchmarks.

TRENCH SAFETY NOTES:

1. In accordance with the Laws of the State of Texas and the U.S. Occupational Safety and Health Administration (OSHA) regulations, all trenches over 5 feet in depth, in either hard and compact or soft and unstable soil, shall be sloped, shored, sheeted, braced or otherwise supported. Furthermore, all trenches less than 5 feet in depth shall also be effectively protected when hazardous ground movement may be expected. Trench safety systems to be utilized for this project shall be provided as part of a package required prior to the pre-construction meeting and any construction activities.
2. In accordance with the U.S. Occupational Safety and Health Administration regulations, when persons are in trenches 4 feet deep or more, adequate means of exit, such as a ladder or steps, must be provided and located in such a manner as to require no more than 25 feet of lateral travel.
3. If trench safety system details were not provided in the plans because trenches were anticipated to be less than 5 feet in depth but, during construction, it is found that trenches are in fact 5 feet or more in depth (or) trenches less than 5 feet in depth are in an area where hazardous ground movement is expected, all construction shall cease, the trenched area shall be barricaded and the Design Engineer notified immediately. Construction shall not resume until appropriate trench safety system details, as designed by a professional engineer, are submitted to the City of Round Rock for review and approval

STREET AND DRAINAGE NOTES:

1. All testing shall be done by an independent laboratory at the Owner's expense. Any retesting shall be paid for by the Contractor. A City Inspector shall be present during all tests. Testing shall be coordinated with the City Inspector, and they shall be given a minimum 24-hour notice prior to any testing.
2. Public roadways constructed as part of any development permit shall be free from defects, patches, or repairs prior to acceptance by the City of Round Rock. Roadways shall have a clear surface free from any gouges, marring, or cracking to be considered suitable to the City of Round Rock Transportation Dept. No new roadways shall be accepted until all construction traffic related to this or any associated permit has ceased, and the roadway is open to and exclusively used by the general public.
3. Backfill behind the curb shall be compacted to obtain a minimum of 95% maximum density to within 3" of top of curb. Material used shall be primarily granular with no rocks larger than 6" in the greatest dimension. The remaining 3" shall be clean topsoil free from all clumps and suitable for sustaining plant life.
4. The depth of cover for all crossings under pavement including gas, electric, telephone, cable tv, water services, etc. shall be a minimum of 30" below subgrade.
5. Street rights-of-way shall be graded at a slope of 1/4" per foot toward the curb unless otherwise indicated. However, in no case shall the width of right-of-way at 1/4" per foot slope be less than 10 feet unless a specific request for an alternate grading scheme is submitted to and approved by the City of Round Rock Planning and Development Services Department.
6. Barricades, built to City of Round Rock standards, shall be constructed on all dead-end streets and, as necessary, during construction to maintain job and public safety.
7. All reinforced concrete pipe (RCP) shall be minimum Class lll. All public RCP shall be a minimum of 18-inches in diameter.
8. The subgrade material for the streets shown herein was tested by __n/a_____ on _____ and the paving sections designed in accordance with the current City of Round Rock design criteria. The paving sections are to be constructed as follows: n/a
9. The Geotechnical Engineer shall inspect the subgrade for compliance with the design assumptions made during preparation of the accepted geotechnical report. Any adjustments that are required shall be made through revision of the construction plans and addendum to any accepted geotechnical report.
10. Where plasticity index (PI) is over 20, subgrades must be stabilized utilizing a method acceptable to the Planning and Development Services Department. The Geotechnical Engineer shall recommend an appropriate subgrade stabilization if sulfates are determined to be present. When utilizing lime for soil stabilization, placement shall be in the form of lime slurry, not pellets.

WATER AND WASTEWATER NOTES:

1. Pipe material for water mains shall be PVC (AWWA C-900, min. class 200), or Ductile Iron (AWWA C-100, min. class 200). Water services (2" or less) shall be polyethylene tubing (black, 200 psi, DR 9).
2. Pipe material for pressure wastewater mains shall be PVC (AWWA C-900, min. class 150), SDR26 Higher Pressure Rated (160 PSI), or Ductile Iron (AWWA C-100, min. class 200). Pipe material for gravity wastewater mains shall be SDR26 PVC, PVC (ASTM D2241 or D3034, max. DR-26), Ductile Iron (AWWA C-100, min. class 200).
3. Unless otherwise accepted by the Planning and Development Services Department, minimum depth of cover for all lines outside of the paved areas shall be 42" below finished grade and 30" below subgrade for all lines located in paved areas.
4. All fire hydrant and sprinkler leads shall be ductile iron pipe (AWWA C-100, min. class 200).
5. All ductile iron pipe and fittings shall be wrapped with a minimum of 8-mil polyethylene and sealed with duct tape or equal accepted by the City of Round Rock Civil Inspector.
6. The Contractor shall contact the City of Round Rock Inspector to coordinate utility tie-ins and notify them at least 48 hours prior to connecting to any existing lines.
7. All manholes shall be concrete with cast iron ring and cover. All manholes located outside of the pavement shall have bolted covers. Core connections to fiberglass manholes are prohibited.
8. The Contractor must obtain a bulk water permit or purchase and install a water meter for all water used during construction. A copy of this permit must always be possessed by any parties who utilize water. Contact Water Distribution at (512) 801-4435 for additional information.
9. Line flushing, or any activity using a large quantity of water, must be scheduled a minimum (10) days in advance with the City of Round Rock Civil Inspector.
10. The Contractor, at his expense, shall perform sterilization of all potable water lines constructed and shall provide all equipment (including test gauges), supplies (including concentrated chlorine disinfecting material), and necessary labor required for the sterilization procedure. The sterilization procedure shall be monitored by the City of Round Rock Civil Inspector. Water samples will be collected by the City of Round Rock to verify each treated line has attained an initial chlorine concentration of 50 ppm. Where means of flushing is necessary, the Contractor, at his expense, shall provide flushing devices and remove said devices prior to final acceptance by the City of Round Rock.
11. Sampling taps shall be brought up to 3 feet above grade and shall be easily accessible for City personnel. At the Contractor's request, and in their presence, samples for bacteriological testing will be collected by the City of Round Rock not less than (24) hours after the treated line has been flushed of the concentrated chlorine solution and charged with water approved by the City. The Contractor shall supply a check or money order, payable to the City of Round Rock, to cover the fee charged for testing each water sample. Fee amounts may be obtained by contacting the City of Round Rock Environmental Services Laboratory at (512) 218-5561 or waterlab@roundrocktexas.gov.
12. The Contractor, at their expense, shall perform quality testing for all wastewater pipe installed and pressure pipe hydrostatic testing of all waterlines constructed. The Contractor shall provide all equipment (including pumps and gauges), supplies, and labor necessary to perform these tests. Quality and pressure testing shall be monitored by the City of Round Rock Civil Inspector.
13. The Contractor shall coordinate testing with the City of Round Rock Civil Inspector and provide no less than (24) hours of notice prior to performing sterilization, quality testing, or pressure testing.
14. The Contractor (or Subcontractors) shall not open or close any valves unless directed to do so by City of Round Rock personnel.
15. All water service, wastewater service and valve locations shall be appropriately marked as follows:
    - water service – "W" on top of curb (blue color)
    - wastewater service – "S" on top of curb
    - valve – "V" on face of curb
16. All valve boxes and covers shall be cast iron.
17. Tools for marking the curb shall be provided by the Contractor. Other appropriate means of marking service and valve locations shall be provided in areas without curbs. Such means of marking shall be as specified by the Design Engineer and approved by the City of Round Rock.
18. Contact the City of Round Rock Utilities and Environmental Services (UES) Department for assistance in determining existing water and wastewater locations.
19. The City of Round Rock Fire Department shall be notified (48) hours prior to the testing of any building sprinkler piping so that they may be present to monitor such testing.
20. Sand, as described in Specification item 510 pipe, shall not be used as bedding for water and wastewater lines. Acceptable bedding materials are pipe bedding stone, pea gravel and, in lieu of sand, a naturally occurring or manufactured stone material conforming to ASTM C33 for stone quality and meeting the following gradation specification

FIELD DENSITY CONTROL REQUIREMENTS		
SOIL DESCRIPTION	DENSITY, PERCENT	MOISTURE CONTENT
	TEX-115-E	
PI<15	≥98% Da* AND ≤ 105% Da	N/A
15≤ PI≤ 35	≥98% Da AND ≤ 102% Da	≥W opt + 3%
PI>35	≥95% Da AND ≤ 100% Da	≥W opt + 3%

21. The Contractor is hereby notified that connecting to, shutting down, or terminating existing utility lines may have to occur at off-peak hours. Such hours are usually outside normal working hours (7AM-4PM) and possibly between 12 AM and 6 AM.
22. All wastewater construction shall be in accordance with the Texas Commission on Environmental Quality (TCEQ) Regulations, 30 TAC Chapter 213 and 217, as applicable. All water construction shall be in accordance with TCEQ Regulations, 30 TAC Chapter 290. Whenever TCEQ and City of Round Rock specifications conflict, the more stringent shall apply.

TRAFFIC MARKING NOTES:

1. Any methods, street markings and signage necessary for warning motorists, warning pedestrians, or diverting traffic during construction shall conform to the Texas Manual of Uniform Traffic Control Devices for Streets and Highways (TMUTCD), latest edition.
2. All pavement markings, markers, paint, traffic buttons, traffic controls, and signs shall be installed in accordance with the Texas Department of Transportation Standard Specifications for Construction of Highways, Streets and Bridges and, the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest editions.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. Erosion control measures, site work, and restoration work shall be in accordance with the City of Round Rock Design and Construction Standards (DACS) and Code of Ordinances.
2. All slopes shall be sodded or seeded with approved grass, grass mixtures, or ground cover that is suitable to the area and the season in which they are applied.
3. Silt fences, rock berms, sedimentation basins, and similarly recognized techniques and materials shall be employed during construction to prevent point source sedimentation loading of downstream facilities. Installation and condition shall be regularly inspected by the City of Round
4. Rock for effectiveness. Additional measures may be required if, in the opinion of the City Engineer, they are warranted.
5. All temporary erosion control measures shall not be removed until revegetation has been established and approval received from the Civil Inspector. It shall be the responsibility of the Contractor to maintain all temporary erosion control structures and to remove all once approved to do so by the Civil Inspector.
6. All mud, dirt, rocks, debris, etc., spilled, tracked, or otherwise deposited on existing paved streets, drives and areas used by the public shall be cleaned up immediately.

ROUND ROCK FIRE DEPARTMENT NOTES:

1. GENERAL: All developments shall comply with the current Fire Code, appendices, and any local amendments as adopted by the City of Round Rock.
2. COMBUSTIBLE MATERIALS ON-SITE: All-weather access roads/drives (asphalt/concrete capable of supporting 80,000 lb. apparatus loading) shall be constructed, and all water lines shall be tested and fire hydrants in-service, prior to bringing combustible materials (wood, packaging, plastics, etc.) on any job site. Base material is not acceptable for fire access roads/drives.
3. FIRE LANES: Fire apparatus access roads/drives shall have a minimum unobstructed width of (20) feet. Where traffic is two-way directional, buildings exceed (30) feet or three stories in height, total building area exceeds 62,000 square feet, or where hydrants are located along the fire access roads, the minimum width shall be (26) feet. If raised curbing or medians compromise minimum width, curbing shall be mountable and raised area shall contain no obstructions such as landscaping, signage, ground-mounted equipment, etc.
4. ALL-WEATHER SURFACE: The pavement structure for fire access roads/drives must be all-weather surface (asphalt/concrete) designed to support an 80,000 lb. apparatus loading.
5. GRADE: The grade through the fire lane access shall not exceed 7% and no grade breaks shall exceed 3%.
6. TURNING RADII: Turning radii shall be a minimum of 25-ft inside and 50-ft outside as measured from face-of-curb (when present) or on drivable, paved surface.
7. VERTICAL CLEARANCE: The vertical clearance over a designated fire lane shall not be less than 13'-6".
8. EMERGENCY RESPONDER RADIO COVERAGE: Adequate emergency responder radio coverage shall be required for all new buildings. A pre-enhancement radio survey shall be required at the 80% construction phase for certain building types based on the size of the building. Pre-enhancement radio survey requirements include the following building types:
    - Greater than (5) Stories
    - Below grade plane
    - Wood framed construction greater than 50,000 SF
    - Concrete or metal framed construction greater than 25,000 SF
9. REQUIRED FIRE FLOWS: A project's minimum fire flow for the largest building shall be measured at (20) PSI residual pressure that is available for firefighting per the flows on tables B105.1 or B105.2 of the International Fire Code (IFC), Appendix B. DISCLAIMER: It is the responsibility of the developer and engineer to ensure these minimum fire flow requirements for the site are met via flow testing and water modeling.
10. SPRINKER SYSTEMS: Buildings equipped with any fire department connections (FDC) shall have a fire hydrant located within 100' of the FDC (remote FDC is permissible). FDC shall be identified on the site via signage.
11. GATES: If gates are provided along any fire access road/drive, minimum passable width shall not be less than (20) feet and shall comply with IFC Appendix D and Round Rock Code of Ordinances regarding emergency access systems. Gates will require a Knox-Box® key box that shall contain keys to gain necessary access as required by the fire code official.

LEGEND

- REBAR WITH CAP FOUND
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- WASTEWATER MANHOLE
- SIGN
- TREE
- POWER POLE
- LIGHT POLE
- SPRLINKLER CONTROL VALVE
- BENCHMARK
- BARB-WIRE FENCE
- CHAIN-LINK FENCE
- EDGE OF PAVEMENT
- GAS LINE
- UNDERGROUND ELEC.
- UNDERGROUND TELE.
- WATER LINE
- WASTEWATER LINE
- WOOD FENCE
- EASEMENT
- PROPERTY LINE

ABBREVIATIONS:

BOT = BOTTOM
CL = CLASS
CNC = TOP OF CONCRETE
DET = DETENTION
D/S = DOWNSPOUT
DI = DUCTILE IRON
ESMT = EASEMENT
EX = EXISTING
FG = FINISHED GROUND
FH = FIRE HYDRANT
FL = FLOWLINE
FPS = FEET PER SECOND
FLG = FLANGE
GB = GRADE BREAK
GV = GATE VALVE
HPT = HIGHPOINT
LOC = LIMITS OF CONSTRUCTION
LPT = LOW POINT
MH = MANHOLE
MJ = MECHANICAL JOINT
NG = NATURAL GROUND
PAV = TOP OF PAVEMENT
PDWF = PEAK DRY WEATHER FLOW
PWWF = PEAK WET WEATHER FLOW
PROP = PROPOSED
PVC = POLYVINYL CHLORIDE
REF = REFERENCE
RS = RESILIENT SEAT
SCH = SCHEDULE
SF = SILT FENCE
SLAB = TOP OF SLAB
SS = STORM SEWER
SSL = STORM SEWER LINE
SW = TOP OF SIDEWALK
TC = TOP OF CURB
TG = TOP OF GRATE
TOF = TOP OF FOOTING
TOI = TOP OF INLET
TOW = TOP OF WALL
TP = TREE PROTECTION
TR = TOP OF MANHOLE RIM
TYP = TYPICAL
WL = WATER LINE
WQ = WATER QUALITY
WSE = WATER SURFACE ELEVATION
WTR = WATER
WWL = WASTEWATER LINE
WWMH = WASTEWATER MANHOLE

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 Apr 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

NOTE SHEET
(1 OF 2)

SHEET NUMBER
C-1

Texas Commission on Environmental Quality
Water Pollution Abatement Plan

TCEQ-0592 (Rev. 7/15/15)

General Construction Notes:

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 TCEQ-0592 (Rev. July 15, 2015) Page 2 of 2 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 Cirle, 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

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

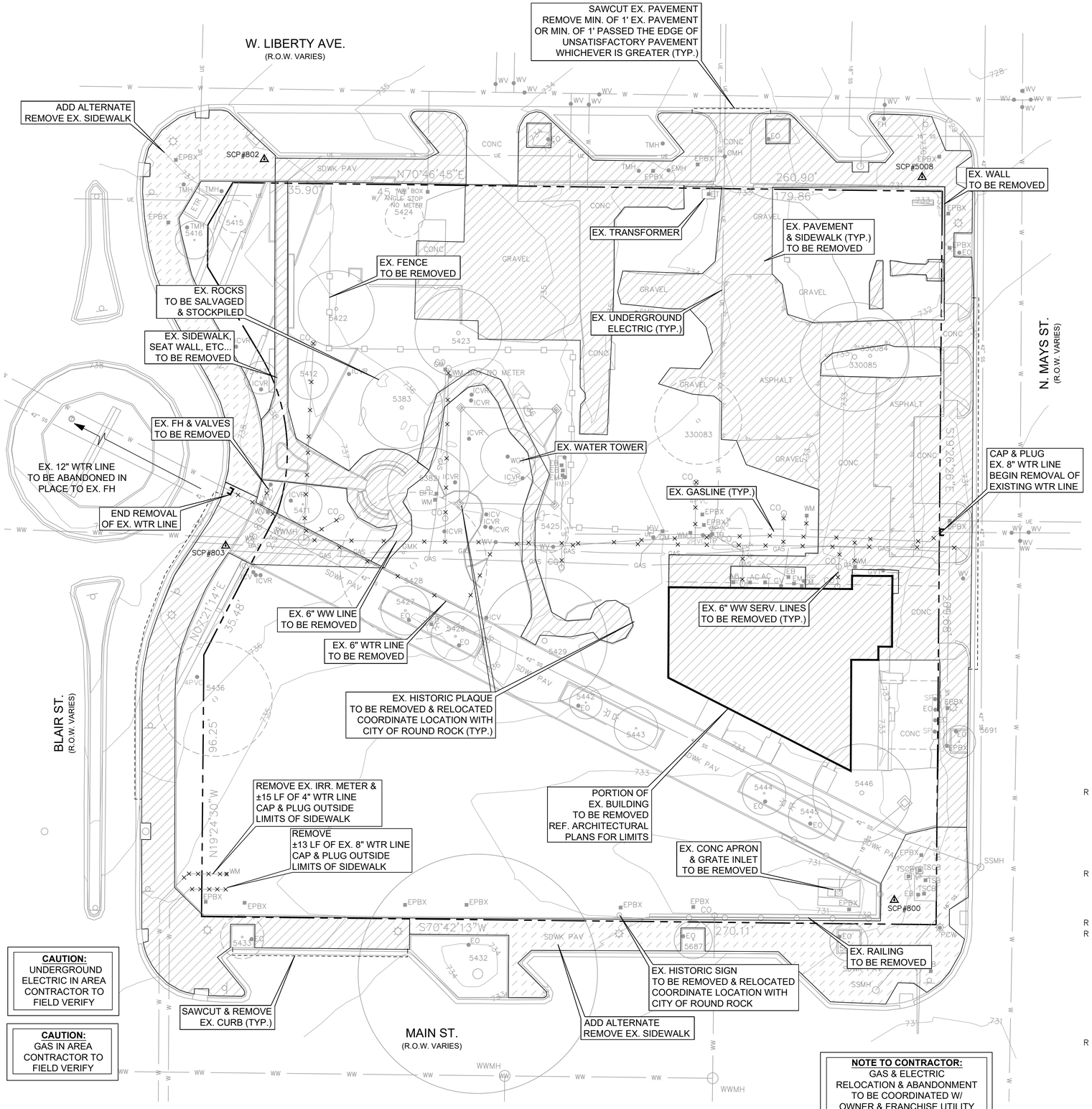
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

NOTE SHEET
(2 OF 2)

SHEET NUMBER

C-2



know what's below.
Call before you dig.

NOTES:

1. DISTANCES ARE SURFACE DISTANCES.
2. COORDINATES ARE SURFACE VALUES WITH BEARING BASIS: NAD-83, TEXAS CENTRAL (4203), STATE PLANE SYSTEM. COORDINATES FOR THIS FILE SURFACE BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 0.99988785. BASED ON THE TEXAS STATE PLAN COORDINATE SYSTEM, NAD83.
3. SURVEY WAS PROVIDED BY DIAMOND SURVEYING IN.. ALL RESPONSIBILITY FOR THE ACCURACY OF THIS SURVEY REMAINS WITH THE SURVEYOR WHO PREPARED IT. IN USING THIS SURVEY, THE ENGINEER MUST RELY UPON THE ACCURACY OF THE WORK PROVIDED BY THE SURVEYOR.
4. CONTRACTOR'S SURVEYOR SHALL LEVEL/ TRAVERSE THROUGH THE BENCHMARKS/ TRAVERSE POINTS NOTED ON THIS PLAN TO VERIFY VERTICAL/ HORIZONTAL DATUM.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. 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 WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
6. REFERENCE SHEET C-1 FOR ABBREVIATIONS AND MASTER LEGEND.

SURVEY CONTROL & BENCHMARK INFORMATION

SURFACE COORDINATES:

POINT#	NORTH	EAST	ELEVATION	DESCRIPTION
800	10159850.81	3132703.35	732.07'	PK NAIL FOUND
802	10160027.95	3132392.74	736.17'	PK NAIL FOUND
803	10159889.50	3132427.81	737.49'	PK NAIL FOUND
5008	10160104.20	3132622.38	730.09'	PK NAIL SET

VERTICAL DATUM: NAVD-88. HELD SURVEY CONTROL POINT #800 (ELEVATION=732.07') ESTABLISHED BY INLAND GEODETICS FOR PREVIOUS SURVEY. ALL OTHER CONTROL POINT ELEVATIONS ARE BASED ON CONVENTIONAL LEVELING METHODS.

TREE LIST

TAG#	SIZE	TYPE
5382	15"	PRINCESS
2 BOLES:	10",10"	
5383	15"	PIN OAK
5411	7"	SYCAMORE
5412	7"	LIVE OAK
5413	6"	CEDAR ELM
R 5415	6"	LIVE OAK
5416	7"	SYCAMORE
5422	14"	PECAN
5423	16"	PECAN
5424	7"	PECAN
5425	7"	SYCAMORE
5426	9"	POST OAK
5427	9"	LIVE OAK
R 5428	27"	CRAPE MYRTLE
6 BOLES:	10",8",8",6",6",6"	
5429	23"	CRAPE MYRTLE
6 BOLES:	8",7",6",6",6",4"	
5432	44"	LIVE OAK
R 5433	8"	LIVE OAK
R 5436	21"	CEDAR ELM
5442	6"	SHIN OAK
5443	8"	LIVE OAK
5444	8"	LIVE OAK
5445	8"	OAK
5446	18"	LIVE OAK
5686	7"	SHIN OAK
5687	7"	LIVE OAK
5691	6"	SHIN OAK

TREES BY INLAND GEODETICS

R 330083	16"	CEDAR ELM
330084	14"	CEDAR ELM
330085	20"	CEDAR ELM

ALL ORNAMENTAL TREES SHOWN HEREON ARE BY INLAND GEODETICS

LEGEND:

- TREE TO REMAIN
- TREE TO BE REMOVED
- BASE BID
- ALTERNATE BID

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN

CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

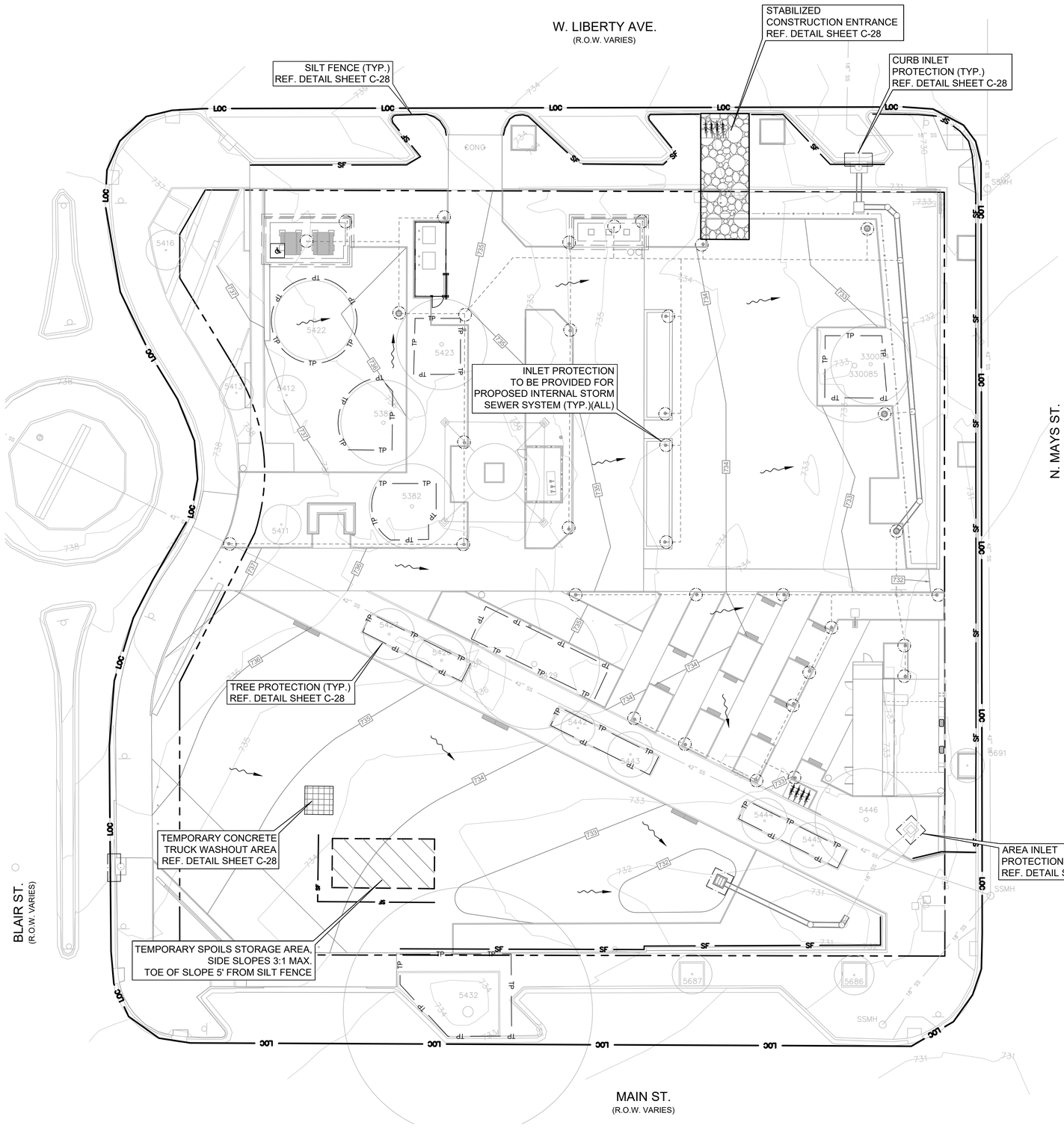
PROJECT NUMBER: 7089

EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER

C-3

K:\CAD\202-001 Town Green @ Round Rock\4-CAD\PLANS\202-001 EX-COND.dwg, 4/11/2025 1:58:13 PM, _DWG To PDF.pc3, 1:1, JRW



0 10 20 40
HORIZONTAL SCALE

know what's below.
Call before you dig.

LEGEND

- SILT FENCE — SF
- LIMITS OF CONSTRUCTION — LOC
- TREE PROTECTION — TP
- INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- FLOW DIRECTION

NOTES:

1. ANY DIRT, MUD, DEBRIS, ETC., SPILLED TRACKED OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS, DRIVES, AND AREAS USED BY THE PUBLIC, SHALL BE IMMEDIATELY CLEANED UP.
2. THE CONTRACTOR MAY SUBMIT AN ALTERNATE PLAN FOR THE LOCATION OF THE STAGING & SPOILS AREA AND/OR THE CONCRETE TRUCK WASH OUT AREA.
3. ALL DISTURBED AREAS SHALL BE REVEGETATED.
4. POST THE INSTALLATION OF PROPOSED INLETS, INLET PROTECTION SHALL BE INSTALLED AS SOON AS PRACTICABLE
5. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY, MAINTAIN, REVISE, AND UPDATE THE PROJECT STORM WATER PREVENTION POLLUTION PLAN (SWPPP), AS REQUIRED IN ACCORDANCE WITH THE GENERAL PERMIT TXR 150000.
6. REFERENCE SHEET C-1 FOR ABBREVIATIONS AND MASTER LEGEND.

EROSION CONTROL INSTALLATION :

1. CONTRACTOR TO INSTALL SILT FENCE AROUND THE PERIMETER OF THE SITE AS DEMOLITION OF EXISTING SIDEWALK IS COMPLETED.

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

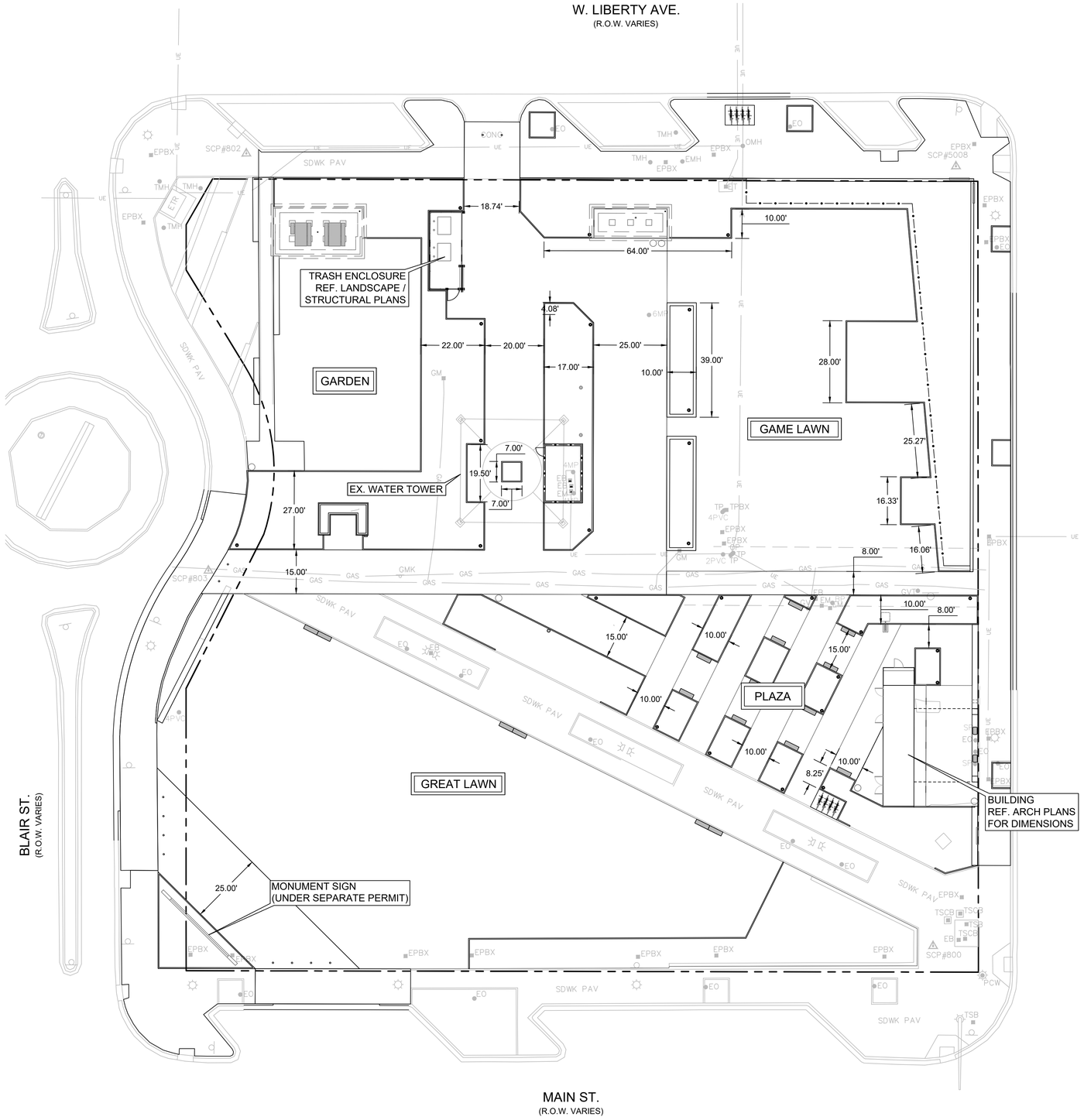
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

EROSION / SEDIMENTATION CONTROL PLAN

SHEET NUMBER

C-4



0 10 20 40
HORIZONTAL SCALE

Texas 811
know what's below.
Call before you dig.

NOTES:

1. NO PORTION OF THIS SITE IS WITHIN THE FEMA 100 YEAR FLOODPLAIN AS PER PANEL NUMBER 48491C0493F, DATED DECEMBER 20, 2019.
2. ALL PARKING CURB RETURNS ARE 3' RADII UNLESS OTHERWISE NOTED.
3. ALL SIDEWALK RAMP CURB RETURNS ARE 1' RADII UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
5. A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANTS.
6. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS. DO NOT LAYOUT BUILDING / BUILDINGS BASED ON CIVIL DRAWINGS.
7. CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR.
8. ALL SIGNAGE WILL REQUIRE A SEPARATE SIGN PERMIT. APPROVAL OF A SITE DEVELOPMENT PERMIT OR BUILDING PERMIT DOES NOT CONSTITUTE APPROVAL OF SIGNAGE.
9. REFERENCE SHEET C-1 FOR ABBREVIATIONS AND MASTER LEGEND.

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 Apr 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

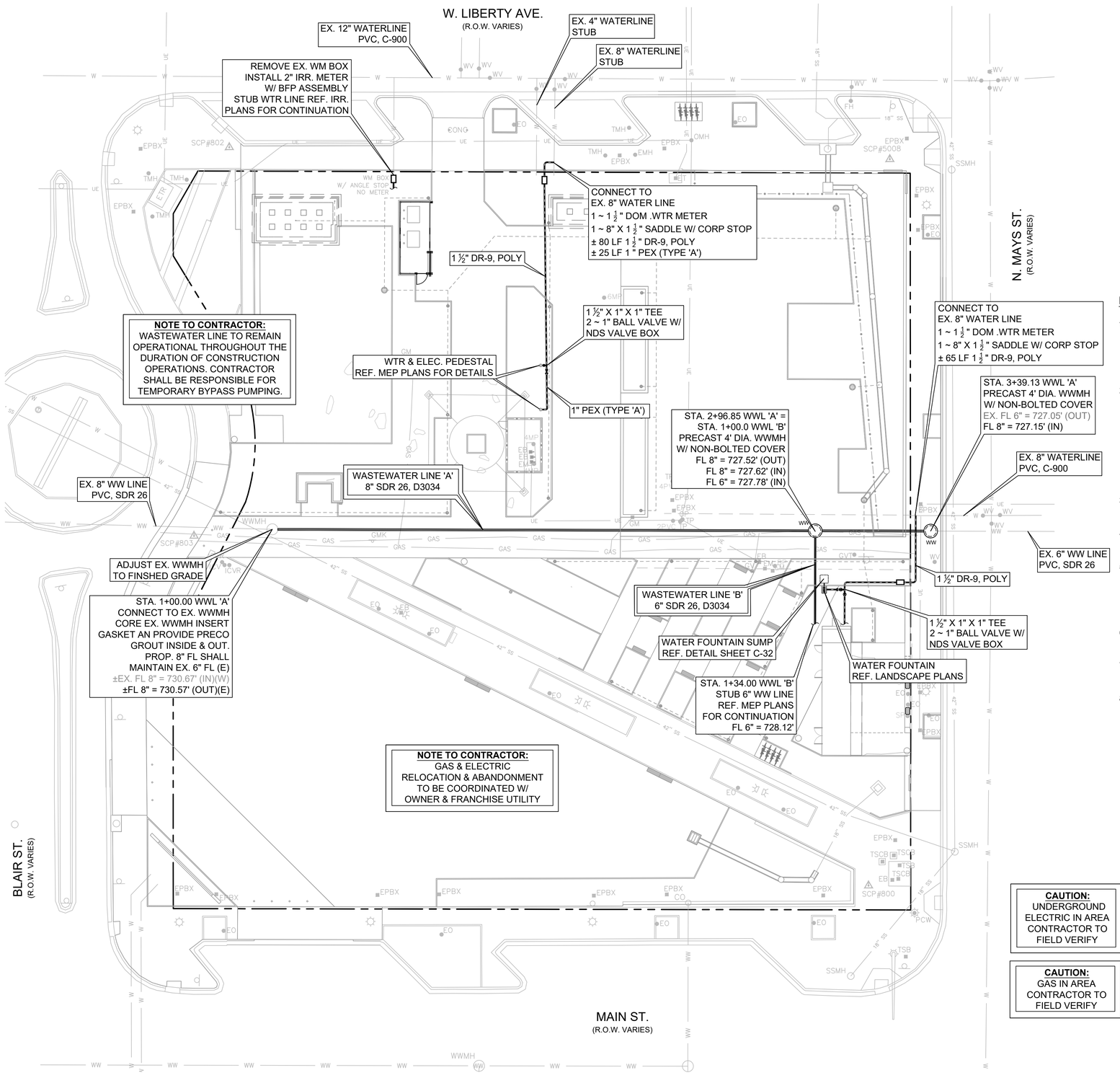
DRAWN: _____ REVIEWED: _____

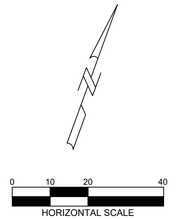
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

SITE PLAN

SHEET NUMBER
C-5





know what's below.
Call before you dig.

NOTES:

1. THE CONTRACTOR SHALL POT HOLE AND FIELD VERIFY THE LOCATION AND DEPTHS OF ALL PROPOSED UTILITY CROSSINGS & CONNECTIONS PRIOR TO ANY CONSTRUCTION OR ORDERING OF MATERIALS. CONTRACTOR SHALL REPORT DISCREPANCIES OF EXISTING UTILITIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. 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 WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. REFER TO MEP PLAN FOR SERVICE CONNECTIONS TO UTILITY PROVIDERS: GAS / ELECTRIC / TELEPHONE / ETC.
4. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF ROUND ROCK.
5. TRENCH SAFETY SYSTEMS SHALL BE REQUIRED FOR TRENCHES EXCEEDING 5' DEPTH. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF TEXAS.
6. ADJUST ALL EXISTING MANHOLE COVERS, VALVE BOXES, AND CASTINGS TO FINISH GRADE.
7. A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANTS.
8. REFERENCE SHEET C-1 FOR ABBREVIATIONS AND MASTER LEGEND.

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

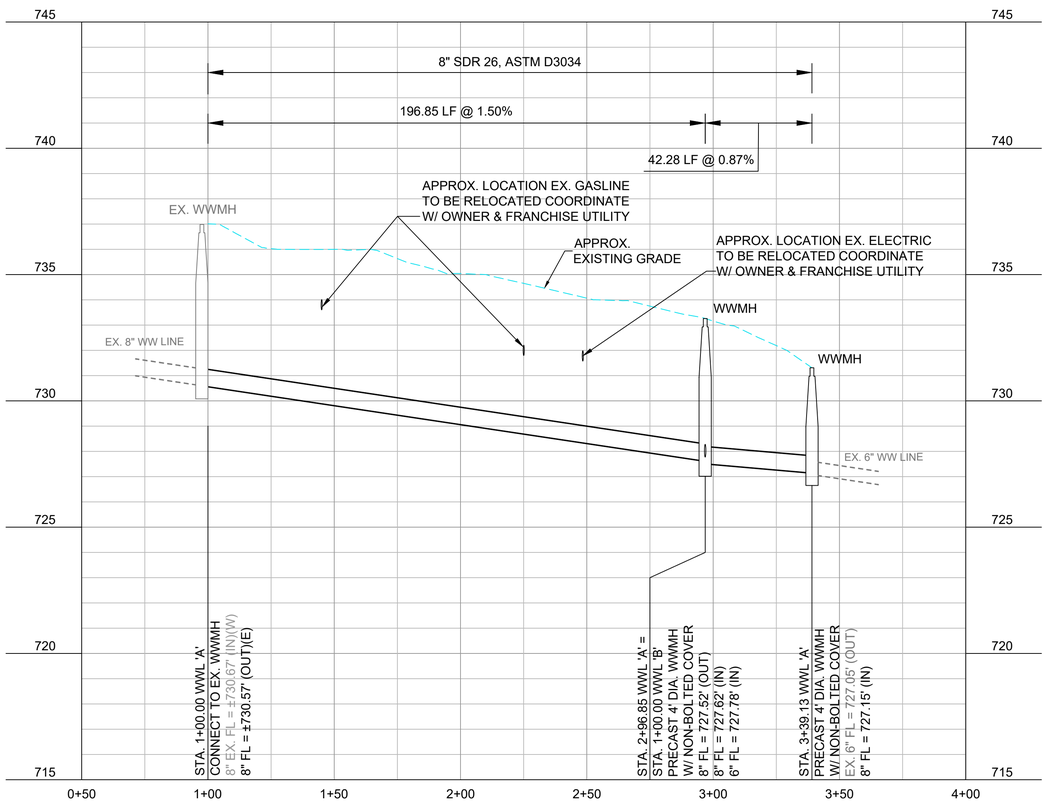
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

UTILITY PLAN

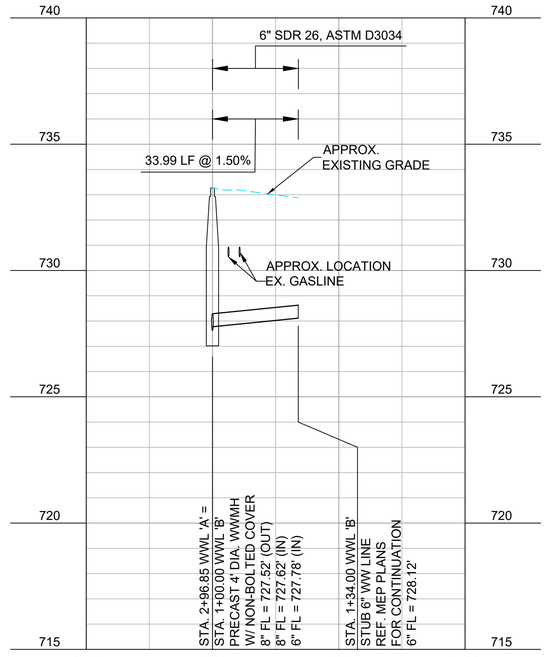
SHEET NUMBER

C-6



WASTEWATER LINE 'A' PROFILE

SCALE: 1" = 30' HORZ.
1" = 3' VERT.



WASTEWATER LINE 'B' PROFILE

SCALE: 1" = 30' HORZ.
1" = 3' VERT.

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN

CITY OF ROUND ROCK

100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

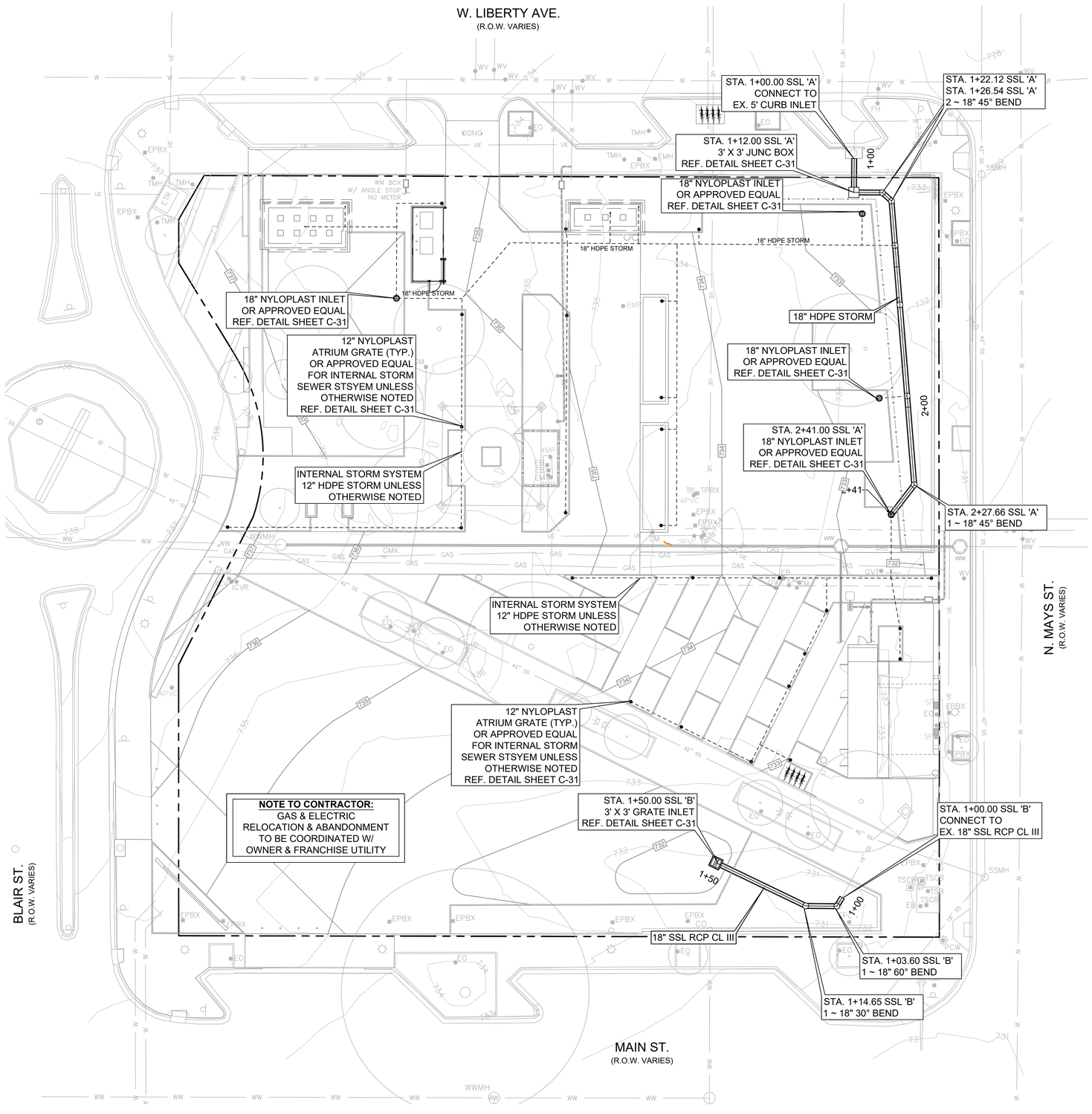
100% CONSTRUCTION DOCUMENTS

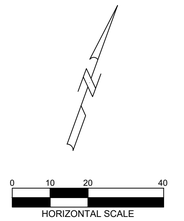
PROJECT NUMBER: 7089

WASTEWATER PROFILE

SHEET NUMBER

C-7





know what's below.
Call before you dig.

NOTES:

1. THE CONTRACTOR SHALL POT HOLE AND FIELD VERIFY THE LOCATION AND DEPTHS OF ALL PROPOSED UTILITY CROSSINGS & CONNECTIONS PRIOR TO ANY CONSTRUCTION OR ORDERING OF MATERIALS. CONTRACTOR SHALL REPORT DISCREPANCIES OF EXISTING UTILITIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. 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 WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. POST THE INSTALLATION OF DRAINAGE INLETS, INLET PROTECTION SHALL BE INSTALLED AS SOON AS PRACTICAL, INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED.
4. REFERENCE SHEET C-9 FOR STORM SEWER PROFILES. REFERENCE SHEET C-10 FOR STORM SEWER CALCULATIONS.
5. ALL STORM SEWER BENDS AND WYES SHALL BE PREFABRICATED.
6. HDPE PIPE SPECIFICATION - ADS HP STORM, SMOOTH INTERIOR AND ANNULAR EXTERIOR MEETING ASTM F2881 AND NASHTO M3300 STANDARDS.
7. REFERENCE SHEET C-1 FOR ABBREVIATIONS AND MASTER LEGEND.

CAUTION:
UNDERGROUND
ELECTRIC IN AREA
CONTRACTOR TO
FIELD VERIFY

CAUTION:
GAS IN AREA
CONTRACTOR TO
FIELD VERIFY

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

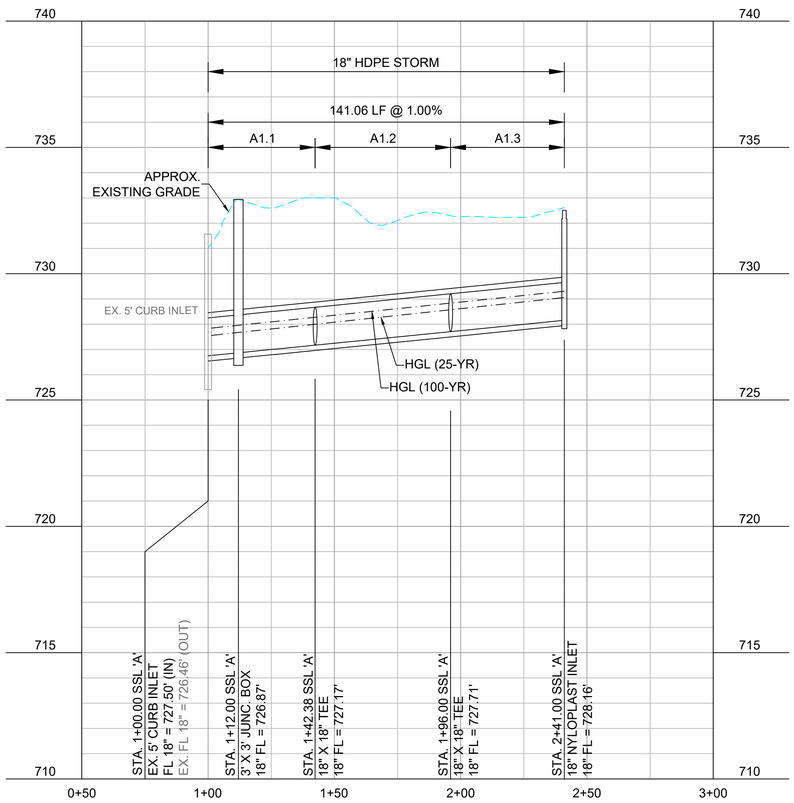
PROJECT NUMBER: 7089

STORM SEWER PLAN

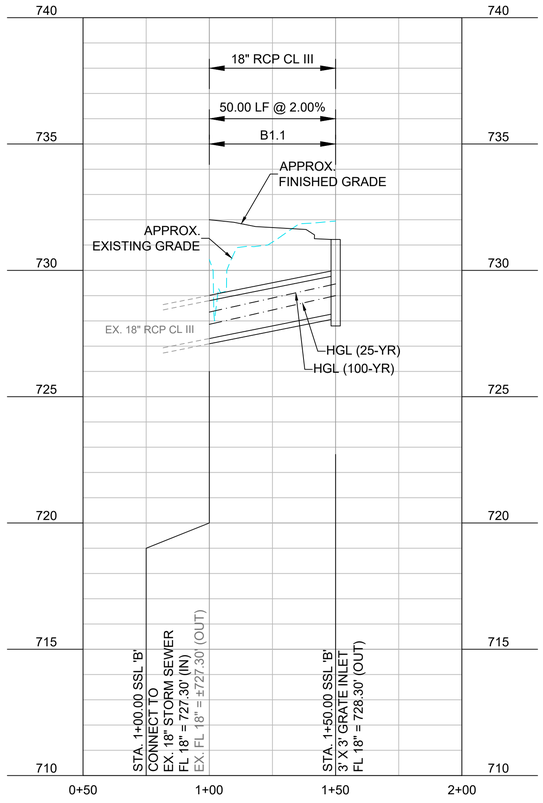
SHEET NUMBER
C-8

NOTES:

1. PRIOR TO CONSTRUCTING STORM SEWER LINE A MINIMUM OF 2' OF FILL EMBANKMENT SHALL BE PLACED ABOVE THE SOFFIT OF THE PIPE. ONCE COMPACTED, THE TRENCHING OPERATION MAY BEGIN.



STORM SEWER LINE 'A' PROFILE
SCALE: 1" = 30' HORZ.
1" = 3' VERT.



STORM SEWER LINE 'B' PROFILE
SCALE: 1" = 30' HORZ.
1" = 3' VERT.

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN

CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

STORM SEWER PROFILE

SHEET NUMBER

C-9

STORM SEWER HYDRAULICS RESULTS TABLE:

25 YR STORM EVENT:

LABEL [ID]	DIAMETER [in]	SYSTEM RATIONAL FLOW [cfs]	VELOCITY AVERAGE [ft/s]	INVERT DOWNSTREAM [ft]	DOWNSTREAM NODE	INVERT UPSTREAM [ft]	UPSTREAM NODE	SLOPE [ft/ft]	LENGTH [ft]	HYDRAULIC GRADE LINE [IN] [ft]	HYDRAULIC GRADE LINE [ft]
A1.1	18	4.91	3.74	727.50	EX CI	727.17	TEE	1.00	42.35	728.00	727.51
A1.2	18	4.91	3.74	727.17	TEE	727.71	TEE	1.00	53.62	728.58	728.00
A1.3	18	4.91	3.74	727.71	TEE	728.16	18" INLET	1.00	45.00	728.99	728.58
B1.1	18	5.91	4.89	727.30	EX. SSL	728.30	3' GRATE INLET	2.00	50.00	728.00	727.94

100 YR STORM EVENT:

LABEL [ID]	DIAMETER [in]	SYSTEM RATIONAL FLOW [cfs]	VELOCITY AVERAGE [ft/s]	INVERT DOWNSTREAM [ft]	DOWNSTREAM NODE	INVERT UPSTREAM [ft]	UPSTREAM NODE	SLOPE [ft/ft]	LENGTH [ft]	HYDRAULIC GRADE LINE [IN] [ft]	HYDRAULIC GRADE LINE [ft]
A1.1	18	7.39	5.16	727.50	EX CI	727.17	TEE	1.00	42.35	728.45	727.81
A1.2	18	7.39	5.16	727.17	TEE	727.71	TEE	1.00	53.62	728.91	728.45
A1.3	18	7.39	5.16	727.71	TEE	728.16	18" INLET	1.00	45.00	729.34	728.91
B1.1	18	8.86	6.76	727.30	EX. SSL	728.30	3' GRATE INLET	2.00	50.00	729.40	728.35

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

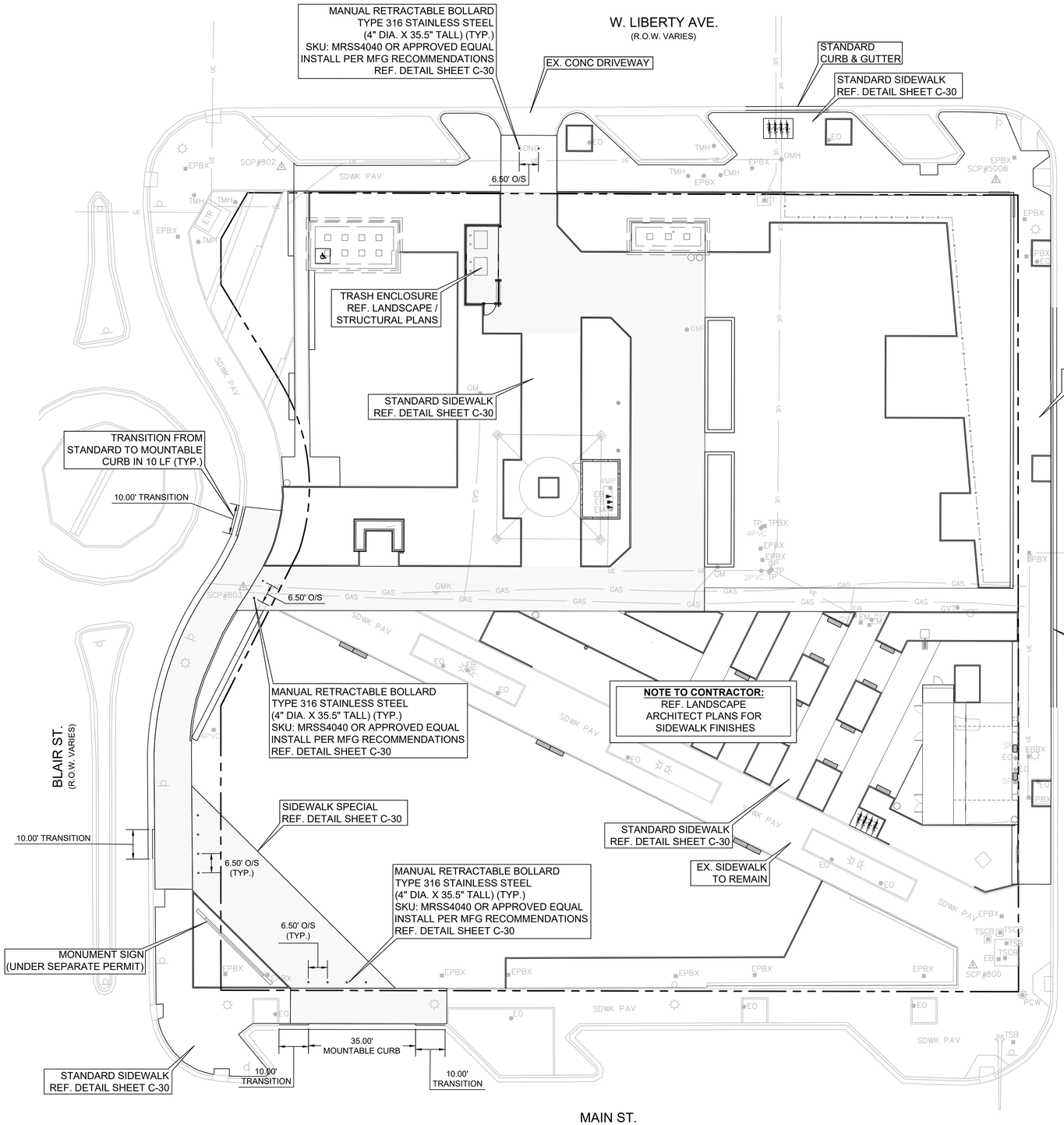
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

HYDRAULIC DATA

SHEET NUMBER

C-10



CAUTION:
UNDERGROUND
ELECTRIC IN AREA
CONTRACTOR TO
FIELD VERIFY

CAUTION:
GAS IN AREA
CONTRACTOR TO
FIELD VERIFY

0 10 20 40
HORIZONTAL SCALE

LEGEND:

STANDARD SIDEWALK

SIDEWALK SPECIAL

Texas 811
know what's below.
Call before you dig.

NOTES:

1. PAVEMENT SECTIONS WERE PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC THE CONSTRUCTION AND TESTING SHALL COMPLY WITH THEIR RECOMMENDATIONS FROM THE " TBD " GEOTECHNICAL ENGINEERING REPORT DATED _____.

   P.O.C.: TBD
   PHONE NO.: TBD

2. CONCRETE PAVING SHALL HAVE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS AT INTERVALS NOT EXCEEDING 12.5 FEET. DEPTH OF JOINTS SHALL BE AT LEAST 1/4 OF THE SLAB THICKNESS. THE JOINTS MUST BE SAW CUT AS SOON AS THE CONCRETE HAS HARDENED AND WILL NOT REAR OR RAVEL WHEN CUT, WITHIN 6-12 HOURS OF PLACEMENT.

3. SUPPORT REINFORCEMENT STEEL WITH CHAIRS OF PRECAST CONCRETE BLOCKS ABOUT 1 INCH BELOW THE BOTTOM OF THE PLANNED CONTRACTION JOINTS.

4. PROVIDE LOAD TRANSFER AT THE INTERFACE BETWEEN AREAS OF CONCRETE PLACED AT DIFFERENT TIMES USING TIED AND KEYED CONSTRUCTION JOINTS. PLACE CONSTRUCTION JOINT AT PLANNED CONTRACTION JOINT LOCATIONS.

5. ALL JOINTS SHALL BE SEALED IN ACCORDANCE WITH COA SPECIFICATIONS

6. STAGE PAVEMENT CONSTRUCTION SUCH THAT CONSTRUCTION TRAFFIC, INCLUDING CONCRETE TRUCKS, DO NOT TRAVEL ON NEWLY PLACED CONCRETE PAVEMENT UNTIL THE CONCRETE ACHIEVES AT LEAST 75% OF THE DESIGN STRENGTH, USUALLY 7 DAYS.

7. CONCRETE JOINTING FOR SIDEWALKS SHALL MATCH THE ADJACENT CURB OR PAVEMENT JOINTING.

8. SIDEWALKS ADJACENT TO CURB AND GUTTERS SHALL BE DOWELED TO PREVENT DIFFERENTIAL MOVEMENT.

9. SIDEWALKS AT DOORWAY LOCATIONS SHALL BE DOWELED TO THE BUILDING FOUNDATION TO PREVENT DIFFERENTIAL MOVEMENT.

10. CURBS WITHIN THE LIMITS OF CONCRETE PAVEMENT SHALL BE MONOLITHICALLY POURED WITH PAVEMENT.

11. FIRE ACCESS ALL WEATHER SURFACE (CONCRETE OR ASHPALT) IS REQUIRED FOR FIRE APPARTUS ACCESS ROADS BEFORE GOING VERTICAL WITH OR BRINGING CONBUSTIBLE MATERIALS TO THE CONSTRUCTION SITE. MUST SUPPORT 80,000 POUNDS. HYDRANTS AT THE CONSTRUCTION SITE SHALL BE IN SERVICE.

12. ALL SIGNAGE WILL REQUIRE A SEPARATE SIGN PERMIT. APPROVAL OF A SITE DEVELOPMENT PERMIT OR BUILDING PERMIT DOES NOT CONSTITUTE APPROVAL OF SIGNAGE.

13. REFERENCE SHEET C-1 FOR ABBREVIATIONS AND MASTER LEGEND.

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

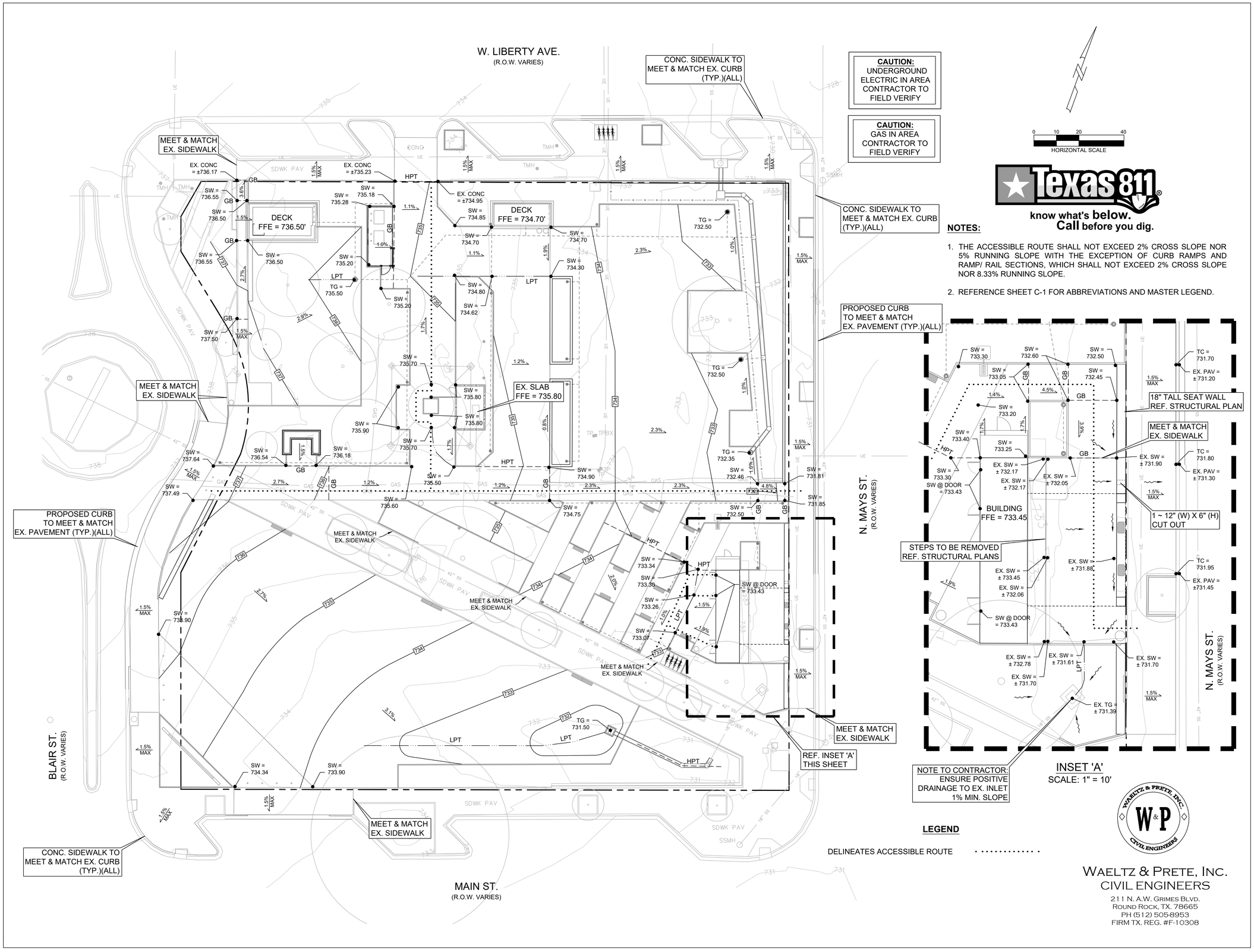
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

PAVING, STRIPING, AND SIGNAGE PLAN

SHEET NUMBER

C-11



NOTES:

1. THE ACCESSIBLE ROUTE SHALL NOT EXCEED 2% CROSS SLOPE NOR 5% RUNNING SLOPE WITH THE EXCEPTION OF CURB RAMPS AND RAMP/ RAIL SECTIONS, WHICH SHALL NOT EXCEED 2% CROSS SLOPE NOR 8.33% RUNNING SLOPE.
2. REFERENCE SHEET C-1 FOR ABBREVIATIONS AND MASTER LEGEND.

DESIGNWORKSHOP

Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh

812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222

WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN

CITY OF ROUND ROCK

100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

GRADING PLAN

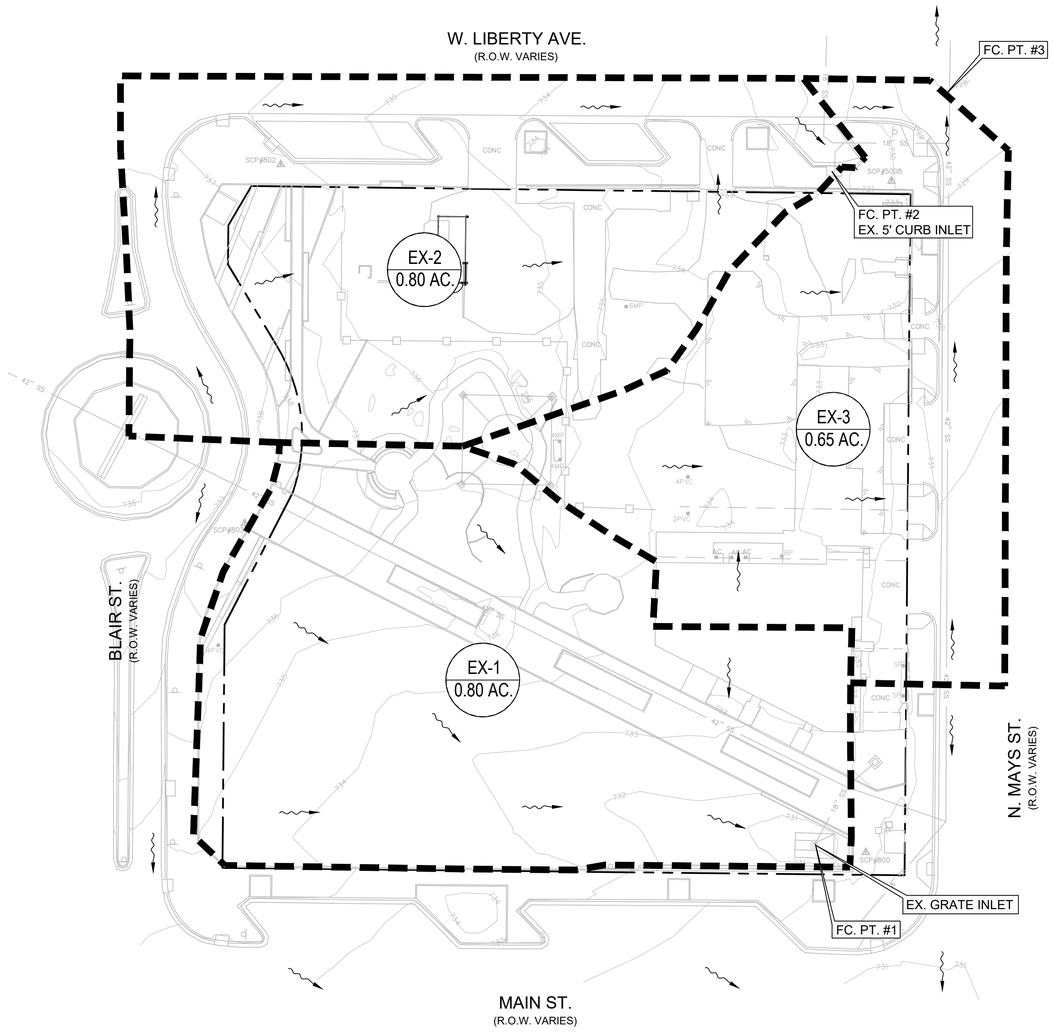
SHEET NUMBER

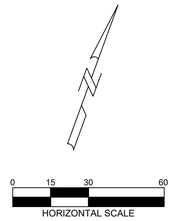
C-12

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

EXISTING CONDITIONS DRAINAGE TABLE (RATIONAL METHOD - ATLAS 14 LAKE CREEK WATERSHED):

SUB-BASIN DESIGNATION	AREA [acres]	T_c [min.]	ESTIMATED IMPERV. +/- [%]	C_2	C_{10}	C_{25}	C_{100}	I_2 [in/hr]	I_{10} [in/hr]	I_{25} [in/hr]	I_{100} [in/hr]	Q_2 [cfs]	Q_{10} [cfs]	Q_{25} [cfs]	Q_{100} [cfs]
EX-1	0.80	5.0	25	0.41	0.47	0.51	0.59	6.23	9.29	11.40	15.10	2.04	3.49	4.65	7.13
EX-2	0.80	5.0	63	0.58	0.65	0.70	0.70	6.23	9.29	11.40	15.10	2.89	4.83	6.38	8.46
EX-3	0.65	5.0	69	0.61	0.68	0.73	0.81	6.23	9.29	11.40	15.10	2.47	4.11	5.41	7.95





LEGEND

EX. DRAINAGE BOUNDARY

FLOW DIRECTION

NOTE:

1. REFERENCE SHEET C-4 FOR ABBREVIATIONS AND MASTER LEGEND.

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN

CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

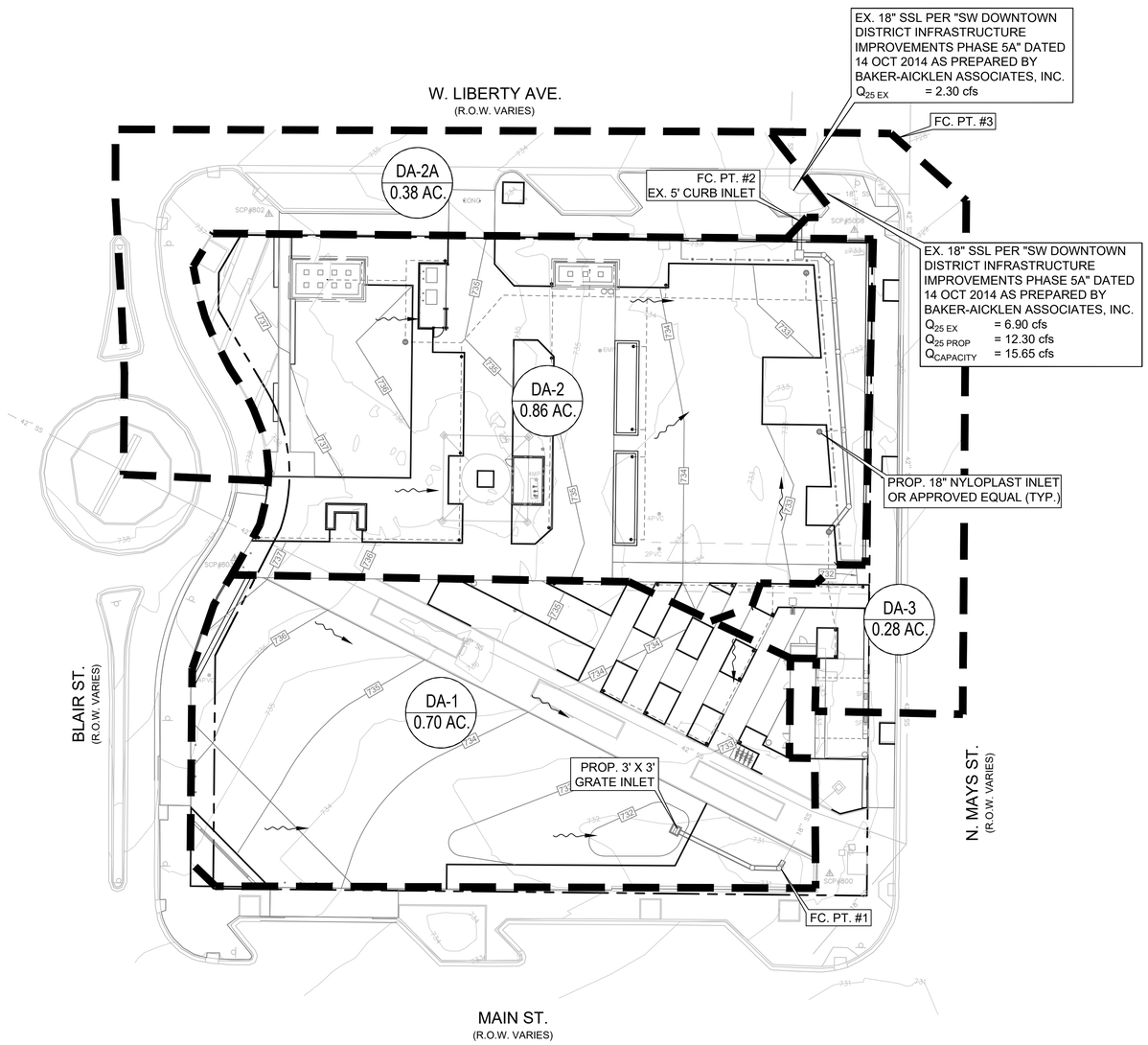
EXISTING CONDITIONS DRAINAGE AREA MAP

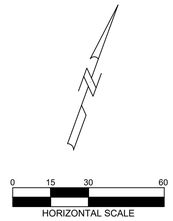
SHEET NUMBER

C-13

PROPOSED CONDITIONS DRAINAGE TABLE (RATIONAL METHOD - ATLAS 14 LAKE CREEK WATERSHED):

SUB-BASIN DESIGNATION	AREA [acres]	T_c [min.]	ESTIMATED IMPERV. +/- [%]	C_2	C_{10}	C_{25}	C_{100}	I_2 [in/hr]	I_{10} [in/hr]	I_{25} [in/hr]	I_{100} [in/hr]	Q_2 [cfs]	Q_{10} [cfs]	Q_{25} [cfs]	Q_{100} [cfs]
DA-1	0.70	5.0	26	0.41	0.47	0.52	0.59	6.23	9.29	11.40	15.10	1.79	3.06	4.15	6.24
DA-2	0.86	5.0	51	0.52	0.59	0.64	0.72	6.23	9.29	11.40	15.10	2.79	4.71	6.27	9.35
DA-2A	0.38	5.0	95	0.73	0.81	0.86	0.94	6.23	9.29	11.40	15.10	1.73	2.86	3.73	5.39
DA-3	0.28	5.0	90	0.70	0.78	0.83	0.92	6.23	9.29	11.40	15.10	1.22	2.03	2.65	3.89





LEGEND

PROP. DRAINAGE BOUNDARY

FLOW DIRECTION

NOTE:

1. REFERENCE SHEET C-4 FOR ABBREVIATIONS AND MASTER LEGEND.

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

100% CONSTRUCTION DOCUMENTS

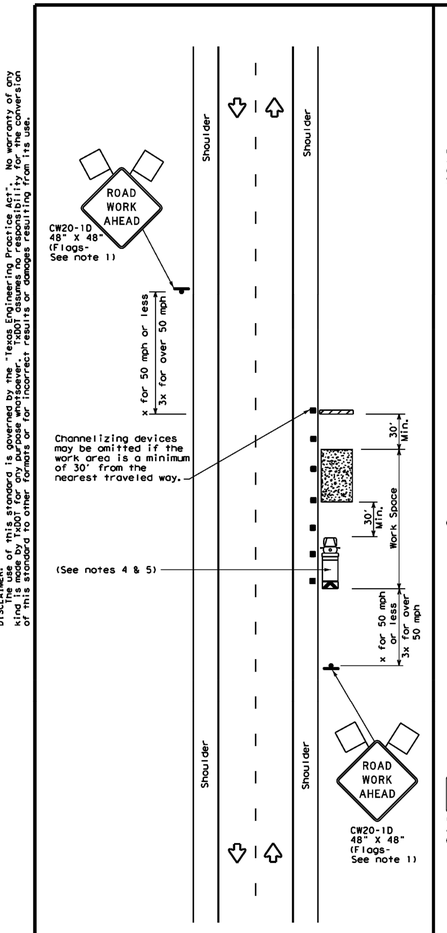
PROJECT NUMBER: 7089

PROPOSED CONDITIONS DRAINAGE AREA MAP

SHEET NUMBER

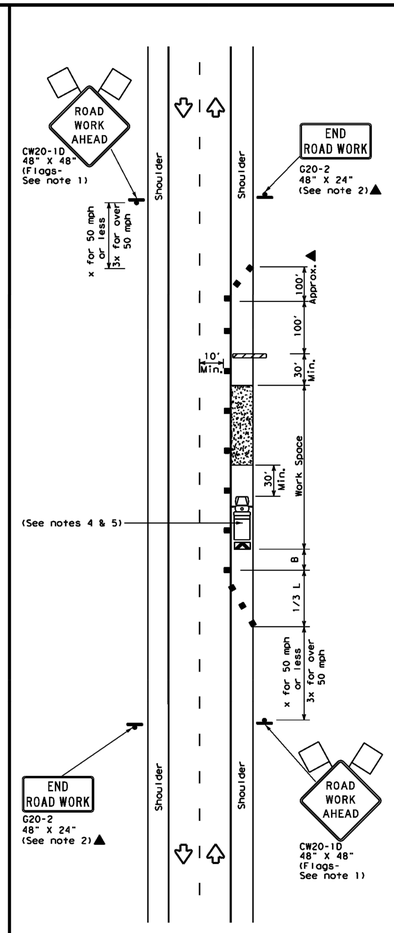
C-14

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



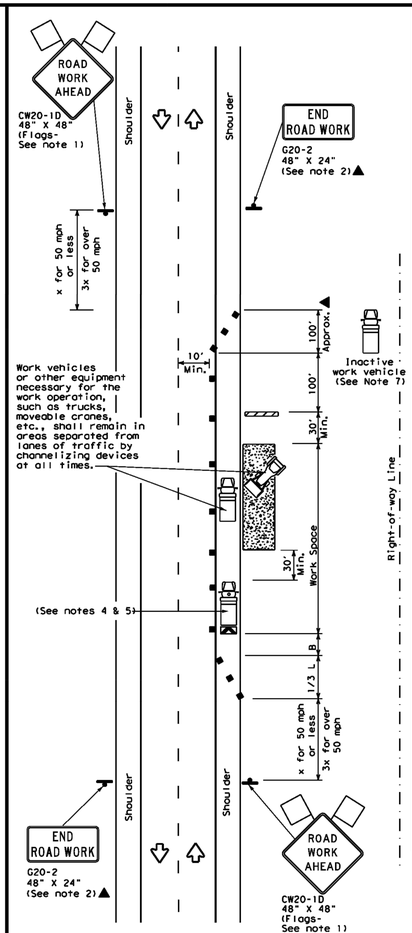
TCP (2-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (2-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (2-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	✓

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
3. Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
4. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
6. See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
7. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
8. CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

Texas Department of Transportation — Traffic Operations Division Standard

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(2-1)-18

FILE: tcp2-1-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS				
2-94 4-98	DIST	COUNTY		SHEET NO.
8-95 2-12				
1-97 2-18				

161

DATE:
FILE:

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS — ANTONIO A. PRETE — 93759 — LICENSED PROFESSIONAL ENGINEER — 10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TRAFFIC CONTROL PLAN

SHEET NUMBER

C-15

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for errors resulting from the use of this standard in other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
12. The Engineer has the final decision on the location of all traffic control devices.
13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.
2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

SHEET 1 OF 12

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS

BC(1)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
4-03 7-13	DIST	COUNTY		SHEET NO.
9-07 8-14				
5-10 5-21				

35

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK
TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TXDOT STANDARD
BC (1) - 21

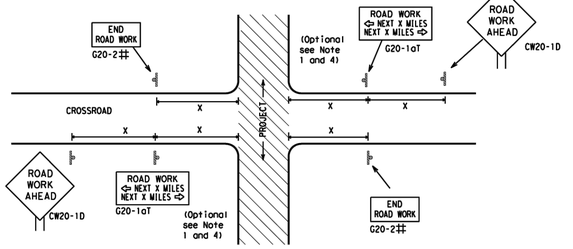
SHEET NUMBER

C-16

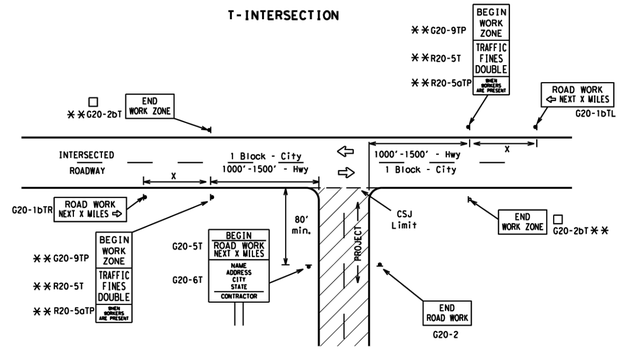
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by the Texas Department of Transportation for any purpose whatsoever. TxDOT disclaims responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

TYPICAL LOCATION OF CROSSROAD SIGNS



T-INTERSECTION



CSJ LIMITS AT T-INTERSECTION

1. The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
2. If construction closes the road at a T-intersection, the Contractor shall place the "CONTRACTOR NAME" (G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow (G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR)" signs shall be replaced by the detour signing called for in the plans.

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING[1,5,6]

SIZE

Sign Number or Series	Conventional Road	Expressway/ Freeway
CW20[4], CW21, CW22, CW23, CW25	48" x 48"	48" x 48"
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"

SPACING

Posted Speed	Sign △ Spacing "X"
MPH	Feet (Apprx.)
30	120
35	160
40	240
45	320
50	400
55	500[2]
60	600[2]
65	700[2]
70	800[2]
75	900[2]
80	1000[2]
*	*[3]

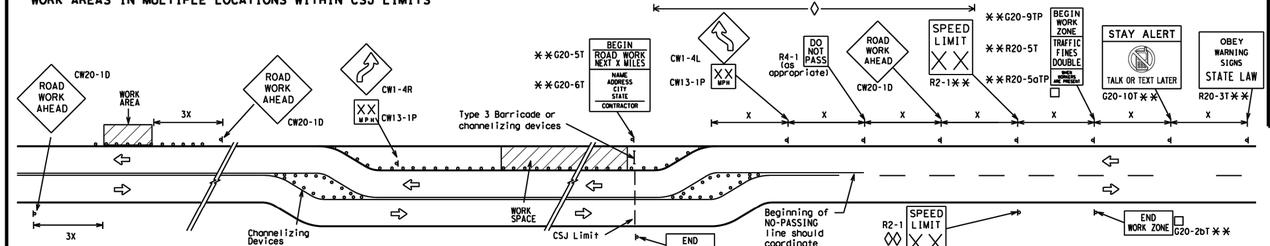
* For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

△ Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

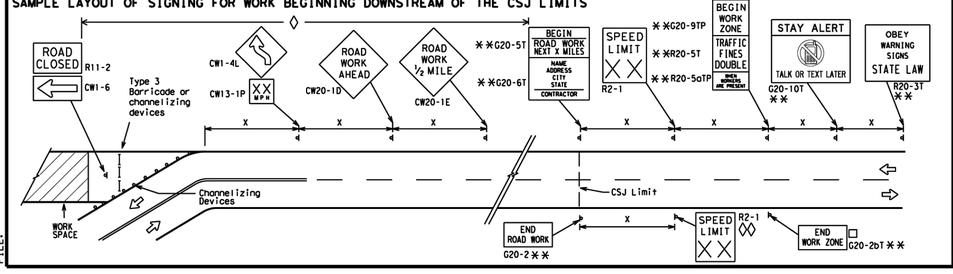
1. Special or larger size signs may be used as necessary.
2. Distance between signs should be increased as required to have 1500 feet advance warning.
3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D) signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs".
5. Only diamond shaped warning sign sizes are indicated.
6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS



SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



NOTES

The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES" (G20-5T) sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.

□ The "BEGIN WORK ZONE" (G20-9TP) and "END WORK ZONE" (G20-2bT) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.

** CSJ limit signing is required for highway construction and maintenance work, with the exception of mobile operations.

◊ Area for placement of "ROAD WORK AHEAD" (CW20-1D) sign and other signs or devices as called for on the Traffic Control Plan.

◊◊ Contractor will install a regulatory speed limit sign at the end of the work zone.

LEGEND	
⊢⊣	Type 3 Barricade
○○○	Channelizing Devices
▬	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

SHEET 2 OF 12

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21				

96

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS — ANTONIO A. PRETE — 93759 — LICENSED PROFESSIONAL ENGINEER — 10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TXDOT STANDARD
BC (2) - 21

SHEET NUMBER
C-17

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

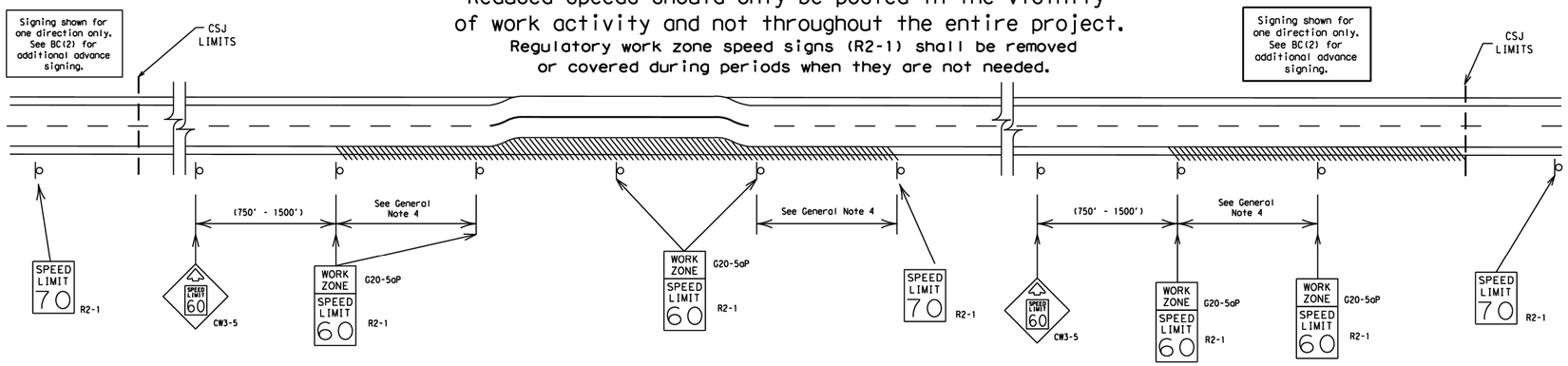
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by the Texas Department of Transportation for any purpose whatsoever. TxDOT disclaims responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project.
Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

a) rough road or damaged pavement surface
b) substantial alteration of roadway geometrics (diversions)
c) construction detours
d) grade
e) width
f) other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered.
(See Removing or Covering on BC(4)).

GENERAL NOTES

1. Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
2. Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
3. Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
4. Frequency of work zone speed limit signs should be:
   40 mph and greater 0.2 to 2 miles
   35 mph and less 0.2 to 1 mile
5. Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
6. Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CW3-5) sign, "WORK ZONE" (G20-5aP) plaque and the "SPEED LIMIT" (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
7. Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
8. Techniques that may help reduce traffic speeds include but are not limited to:
   A. Law enforcement.
   B. Flagger stationed next to sign.
   C. Portable changeable message sign (PCMS).
   D. Low-power (drone) radar transmitter.
   E. Speed monitor trailers or signs.
9. Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

SHEET 3 OF 12

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS 9-07 8-14 7-13 5-21	DIST	COUNTY		SHEET NO.

97

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

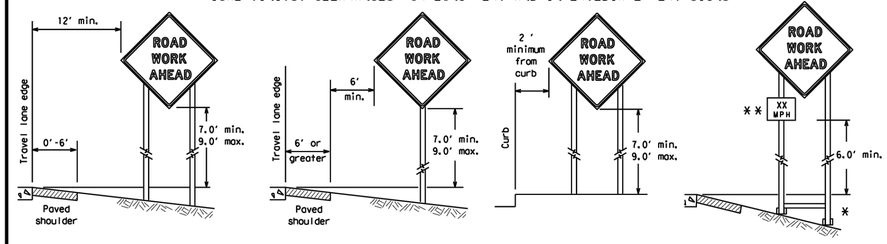
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TXDOT STANDARD
BC (3) - 21

SHEET NUMBER
C-18

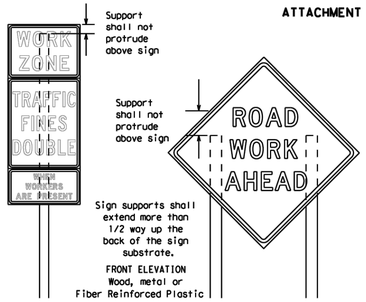
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



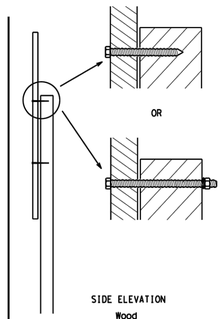
* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

** When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS



Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the spice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times naminal post size, centered on the splice and of at least the same gauge material.

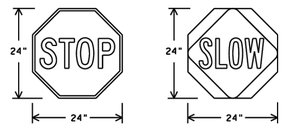


Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24".
2. STOP/SLOW paddles shall be retroreflectorized when used at night.
3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6' to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



SHEETING REQUIREMENTS (WHEN USED AT NIGHT)		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	ORANGE	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND & BORDER	WHITE	TYPE B OR C SHEETING
LEGEND & BORDER	BLACK	ACRYLIC NON-REFLECTIVE FILM

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, specific service (LOGO), or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
2. When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition. For details for covering large guide signs see the TS-CD standard.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
5. If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC standard sheets, TLRS standard sheets or the CWZTCD list. The signs shall meet the required mounting heights shown on the BC, or the SMD standard sheets during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
6. Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
6. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD) for small roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets.The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
7. The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
8. Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)

1. The types of sign supports, sign mounting height,the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
   a. Long-term stationary - work that occupies a location more than 3 days.
   b. Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
   c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
   d. Short, duration - work that occupies a location up to 1 hour.
   e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

1. The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
7. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used, the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

SHEET 4 OF 12

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

BC(4)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21				

98

DATE:
FILE:

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK
TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

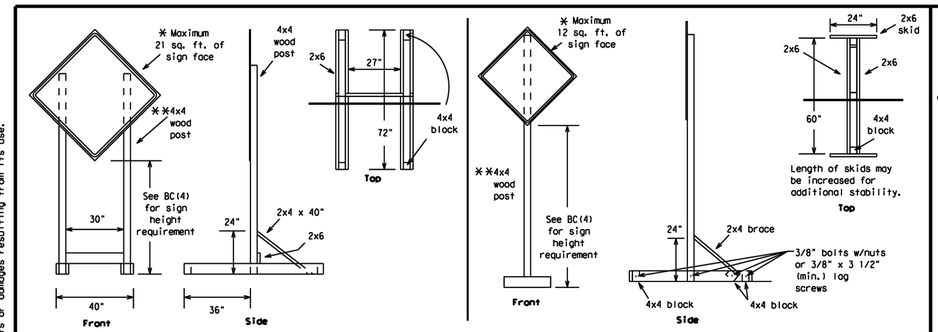
PROJECT NUMBER: 7089

TXDOT STANDARD
BC (4) - 21

SHEET NUMBER

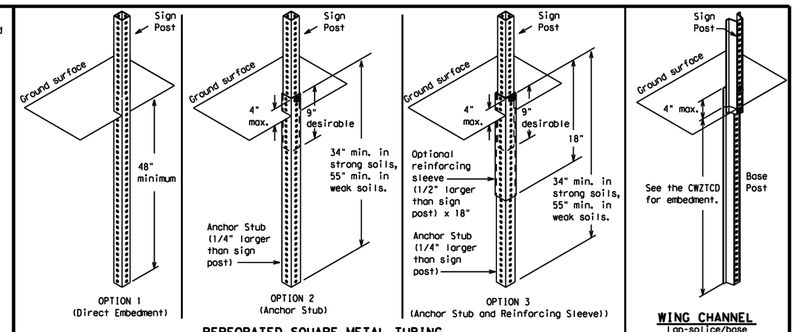
C-19

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



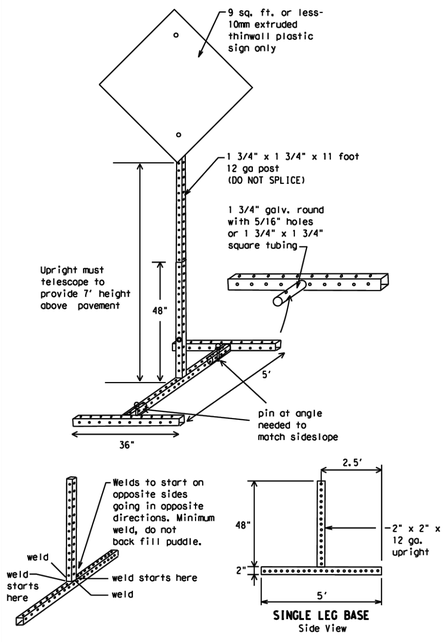
SKID MOUNTED WOOD SIGN SUPPORTS

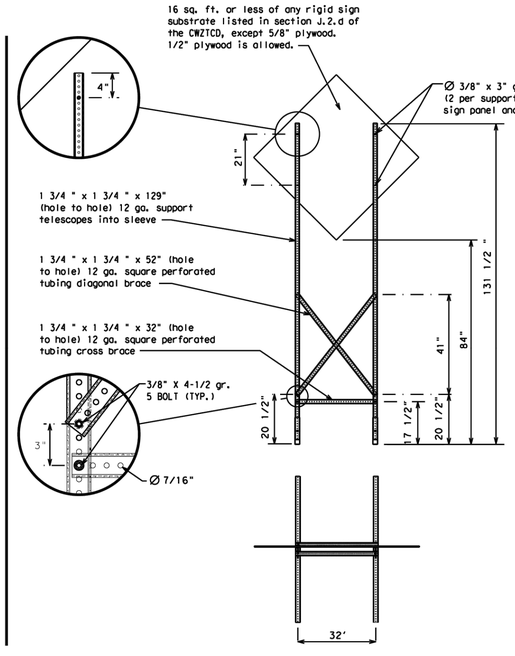
* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

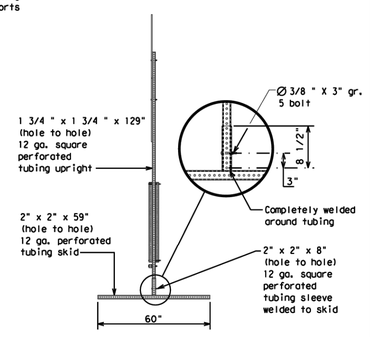


GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support.
The maximum sign square footage shall adhere to the manufacturer's recommendation.
Two post installations can be used for larger signs.







SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS

* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

DATE:
FILE:

WEDGE ANCHORS

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

GENERAL NOTES

1. Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
2. No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
3. When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

* See BC(4) for definition of "Work Duration."

** Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.

☐ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

SHEET 5 OF 12

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS 9-07 8-14 7-13 5-21	DIST	COUNTY		SHEET NO.

99

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN

CITY OF ROUND ROCK

100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TXDOT STANDARD
BC (5) - 21

SHEET NUMBER

C-20

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGNS

1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
2. Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
5. Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
6. When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
7. The message term "WEEKEND" should be used only if the work is to start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
8. The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
9. Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
10. Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
11. Do not use the word "Danger" in message.
12. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
13. Do not display messages that scroll horizontally or vertically across the face of the sign.
14. The following table ilsts abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
16. Each line of text should be centered on the message board rather than left or right justified.
17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD
Alternate	ALT
Avenue	AVE
Best Route	BEST RTE
Boulevard	BLVD
Bridge	BRDG
Cannot	CANT
Center	CTR
Construction Ahead	CONST AHD
CROSSING	XING
Detour Route	DETOUR RTE
Do Not	DONT
East	E
Eastbound	(route) E
Emergency	EMER
Emergency Vehicle	EMER VEH
Entrance, Enter	ENT
Express Lane	EXP LN
Expressway	EXPWY
XXXX Feet	XXXX FT
Fog Ahead	FOG AHD
Freeway	FRWY, FWY
Freeway Blocked	FWY BLKD
Friday	FRI
Hazardous Driving	HAZ DRIVING
Hazardous Material	HAZMAT
High-Occupancy	HOV
Vehicle Highway	HWY
Hour(s)	HR, HRS
Information	INFO
It Is	ITS
Junction	JCT
Left	LFT
Left Lane	LFT LN
Lane Closed	LN CLOSED
Lower Level	LWR LEVEL
Maintenance	MAINT

WORD OR PHRASE	ABBREVIATION
Major	MAJ
Miles	MI
Miles Per Hour	MPH
Minor	MNR
Monday	MON
Normal	NORM
North	N
Northbound	(route) N
Parking	PKING
Road	RD
Right Lane	RT LN
Saturday	SAT
Service Road	SERV RD
Shoulder	SHLDR
Slippery	SLIP
South	S
Southbound	(route) S
Speed	SPD
Street	ST
Sunday	SUN
Telephone	PHONE
Temporary	TEMP
Thursday	THURS
To Downtown	TO DWNTN
Traffic	TRAF
Travelers	TRVLRS
Tuesday	TUES
Time Minutes	TIME MIN
Upper Level	UPR LEVEL
Vehicles (s)	VEH, VEHS
Warning	WARN
Wednesday	WED
Weight Limit	WT LIMIT
West	W
Westbound	(route) W
Wet Pavement	WET PVMT
Will Not	WONT

Roadway designation = IH-number, US-number, SH-number, FM-number

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

- FREEWAY CLOSED X MILE
- ROAD CLOSED AT SH XXX
- ROAD CLSD AT FM XXXX
- RIGHT X LANES CLOSED
- CENTER LANE CLOSED
- NIGHT LANE CLOSURES
- VARIOUS LANES CLOSED
- EXIT CLOSED
- MALL DRIVEWAY CLOSED
- XXXXXXXX BLVD CLOSED
- FRONTAGE ROAD CLOSED
- SHOULDER CLOSED XXX FT
- RIGHT LN CLOSED XXX FT
- RIGHT X LANES OPEN
- DAYTIME LANE CLOSURES
- I-XX SOUTH EXIT CLOSED
- EXIT XXX CLOSED X MILE
- RIGHT LN TO BE CLOSED
- X LANES CLOSED TUE - FRI

Other Condition List

- ROADWORK XXX FT
- FLAGGER XXXX FT
- RIGHT LN NARROWS XXXX FT
- MERGING TRAFFIC XXXX FT
- LOOSE GRAVEL XXXX FT
- DETOUR X MILE
- ROADWORK PAST SH XXXX
- BUMP XXXX FT
- TRAFFIC SIGNAL XXXX FT
- ROAD REPAIRS XXXX FT
- LANE NARROWS XXXX FT
- TWO-WAY TRAFFIC XX MILE
- CONST TRAFFIC XXX FT
- UNEVEN LANES XXXX FT
- ROUGH ROAD XXXX FT
- ROADWORK NEXT FRI-SUN
- US XXX EXIT X MILES
- LANES SHIFT *

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

- MERGE RIGHT
- DETOUR NEXT X EXITS
- USE EXIT XXX
- STAY ON US XXX SOUTH
- TRUCKS USE US XXX N
- WATCH FOR TRUCKS
- EXPECT DELAYS
- REDUCE SPEED XXX FT
- USE OTHER ROUTES
- STAY IN LANE *
- FORM X LINES RIGHT
- USE XXXXX RD EXIT
- USE EXIT I-XX NORTH
- USE I-XX E TO I-XX N
- WATCH FOR TRUCKS
- EXPECT DELAYS
- PREPARE TO STOP
- END SHOULDER USE
- WATCH FOR WORKERS

Location List

- AT FM XXXX
- BEFORE RAILROAD CROSSING
- NEXT X MILES
- PAST US XXX EXIT
- XXXXXXX TO XXXXXXX
- US XXX TO FM XXXX

Warning List

- SPEED LIMIT XX MPH
- MAXIMUM SPEED XX MPH
- MINIMUM SPEED XX MPH
- ADVISORY SPEED XX MPH
- RIGHT LANE EXIT
- USE CAUTION
- DRIVE SAFELY
- DRIVE WITH CARE

** Advance Notice List

- TUE-FRI XX AM- X PM
- APR XX-XX X PM-X AM
- BEGINS MONDAY
- BEGINS MAY XX
- MAY X-X XX PM - XX AM
- NEXT FRI-SUN
- XX AM TO XX PM
- NEXT TUE AUG XX
- TONIGHT XX PM- XX AM

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

** See Application Guidelines Note 6.

APPLICATION GUIDELINES

1. Only 1 or 2 phases are to be used on a PCMS.
2. The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
6. For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
2. Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
4. Highway names and numbers replaced as appropriate.
5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
6. AHEAD may be used instead of distances if necessary.
7. FT and MI, MILE and MILES interchanged as appropriate.
8. AT, BEFORE and PAST interchanged as needed.
9. Distances or AHEAD can be eliminated from the message if a location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

FULL MATRIX PCMS SIGNS

1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
2. When symbol signs, such as the "Flagger Symbol"(CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above.
3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the same size arrow.

SHEET 6 OF 12

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21				

100

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK
TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78664
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

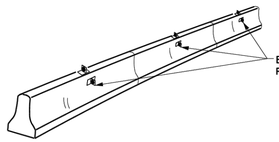
TXDOT STANDARD
BC (6) - 21

SHEET NUMBER

C-21

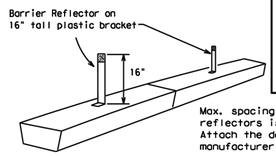
DATE:
FILE:

1. Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
2. Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.



CONCRETE TRAFFIC BARRIER (CTB)

3. Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
4. Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional)while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
5. When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
6. Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
7. Maximum spacing of Barrier Reflectors is forty (40) feet.
8. Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
9. Attachment of Barrier Reflectors to CTB shall be per manufacturer's recommendations.
10. Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer.
11. Single slope barriers shall be delineated as shown on the above detail.

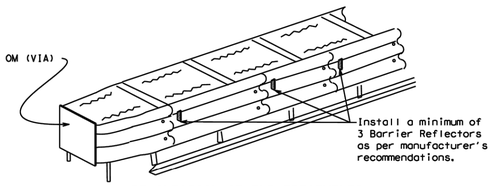


Max. spacing of barrier reflectors is 20 feet.
Attach the delineators as per manufacturer's recommendations.

LOW PROFILE CONCRETE BARRIER (LPCB) USED IN WORK ZONES

LPCB is approved for use in work zone locations, where the posted speed is 45mph, or less. See Roadway Standard Sheet LPCB.

LOW PROFILE CONCRETE BARRIER (LPCB)

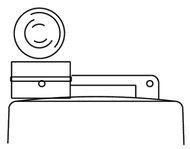


DELINEATION OF END TREATMENTS

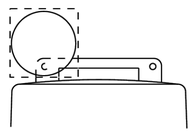
END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet the apppropriate crashworthy standards as defined in the Manual for Assessing Safety Hardware (MASH). Refer to the CWZTCD List for approved end treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



Warning reflector may be round or square. Must have a yellow reflective surface area of at least 30 square inches

WARNING LIGHTS

1. Warning lights shall meet the requirements of the TMUTCD.
2. Warning lights shall NOT be installed on barricades.
3. Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type B_{FL} or C_{FL} Sheeting meeting the requirements of Departmental Material Specification DMS-8300.
4. Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "SB".
5. The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
6. When required by the Engineer, the Contractor shall furnish a copy of the warning lights certification. The warning light manufacturer will certify the warning lights meet the requirements of the latest ITE Purchase Specifications for Flashing and Steady-Burn Warning Lights.
7. When used to delineate curves, Type-C and Type D Steady Burn Lights should only be placed on the outside of the curve, not the inside.
8. The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

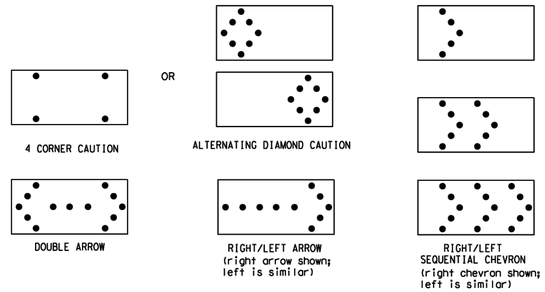
1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
3. A series of sequential flashing warning lights placed on channelizing devices to form a merging taper may be used for delineation. If used, the successive flashing of the sequential warning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle path. The rate of flashing for each light shall be 65 flashes per minute, plus or minus 10 flashes.
4. Type C and D steady-burn warning lights are intended to be used in a series to delineate the edge of the travel lane on detours, on lane changes, on lane closures, and on other similar conditions.
5. Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
6. Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
7. The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
2. The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed on the CWZTCD.
3. The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
4. Round reflectors shall be fully reflectorized, including the area where attached to the drum.
5. Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it attaches to the drum.
6. The side of the warning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.
7. When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
8. The warning reflector should be mounted on the side of the handle nearest approaching traffic.
9. The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

1. The Flashing Arrow Board should be used for all lane closures on multi-lane roadways, or slow moving maintenance or construction activities on the travel lanes.
2. Flashing Arrow Boards should not be used on two-lane, two-way roadways, detours, diversions or work on shoulders unless the "CAUTION" display (see detail below) is used.
3. The Engineer/Inspector shall choose all appropriate signs, barricades and/or other traffic control devices that should be used in conjunction with the Flashing Arrow Board.
4. The Flashing Arrow Board should be able to display the following symbols:



5. The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
6. The straight line caution display is NOT ALLOWED.
7. The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage. The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
8. Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal intervals of 25 percent for each sequential phase of the flashing chevron.
9. The sequential arrow display is NOT ALLOWED.
10. The flashing arrow display is the TxDOT standard; however, the sequential chevron display may be used during daylight operations.
11. The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
12. A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
13. A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility, flash rate and dimming requirements on this sheet for the same size arrow.
14. Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

REQUIREMENTS			
TYPE	MINIMUM SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE
B	30 x 60	13	3/4 mile
C	48 x 96	15	1 mile

ATTENTION
Flashing Arrow Boards shall be equipped with automatic dimming devices.

WHEN NOT IN USE, REMOVE THE ARROW BOARD FROM THE RIGHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE TRAFFIC BARRIER OR GUARDRAIL.

FLASHING ARROW BOARDS

SHEET 7 OF 12

TRUCK-MOUNTED ATTENUATORS

1. Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the Manual for Assessing Safety Hardware (MASH).
2. Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
3. Refer to the CWZTCD for a list of approved TMAs.
4. TMAs are required on freeways unless otherwise noted in the plans.
5. A TMA should be used anytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
6. The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR

BC(7)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21				

TOT

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK
TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TXDOT STANDARD
BC (7) - 21

SHEET NUMBER

C-22

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

GENERAL NOTES

1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
5. Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

Pre-qualified plastic drums shall meet the following requirements:

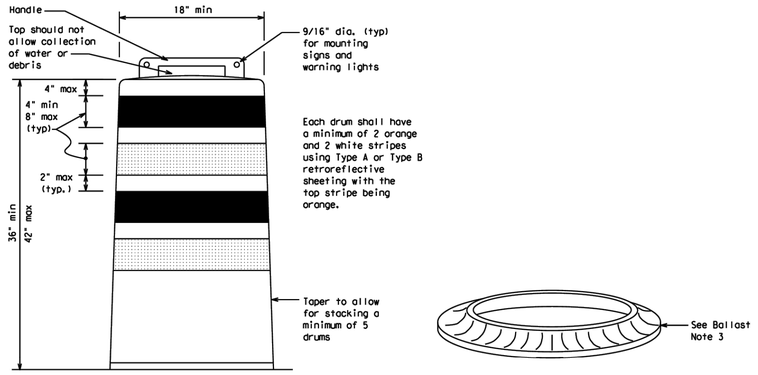
1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
3. Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
8. Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
9. Drum body shall have a maximum unballasted weight of 11 lbs.
10. Drum and base shall be marked with manufacturer's name and model number.

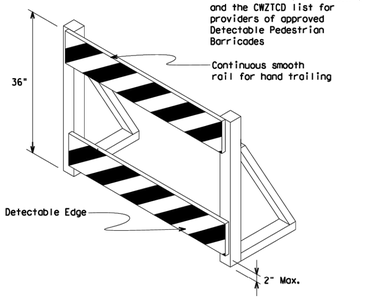
RETROREFLECTIVE SHEETING

1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

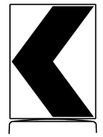
1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
2. Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
3. Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
4. The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
6. Ballast shall not be placed on top of drums.
7. Adhesives may be used to secure base of drums to pavement.





DETECTABLE PEDESTRIAN BARRICADES

1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures.
2. Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
3. Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
5. Warning lights shall not be attached to detectable pedestrian barricades.
6. Detectable pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



18" x 24" Sign
(Maximum Sign Dimension)
Chevron CW1-8, Opposing Traffic Lane Divider, Driveway sign D70a, Keep Right R4 series or other signs as approved by Engineer

12" x 24"
Vertical Panel
mount with diagonals sloping down towards travel way

Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

1. Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
2. Chevrons and other work zone signs with an orange background shall be manufactured with Type B_{FL} or Type C_{FL} Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
3. Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A or Type B. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
5. Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
6. Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
7. Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

SHEET 8 OF 12

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
4-03 8-14	DIST	COUNTY		SHEET NO.
9-07 5-21				
7-13				

102

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS — ANTONIO A. PRETE — 93759 — LICENSED PROFESSIONAL ENGINEER — 10 April 25

ROUND ROCK
TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

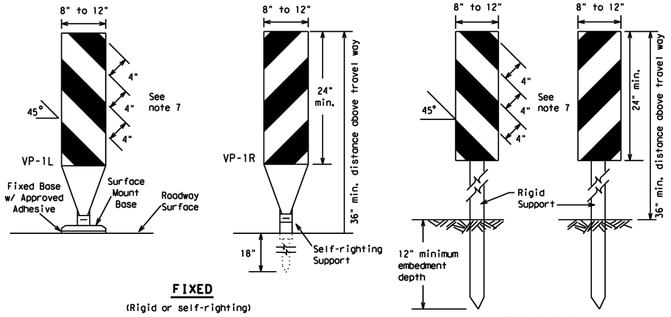
TXDOT STANDARD
BC (8) - 21

SHEET NUMBER

C-23

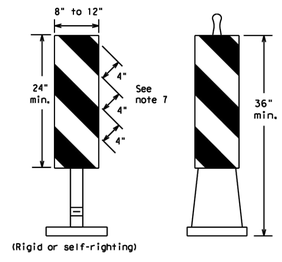
K:\CAD\202-001-Town Green @ Round Rock\4-CAD\PLANS\202-001 TCP.dwg, 4/11/2025 2:00:54 PM, , DWG To PDF.pc3, 1:1, JRW

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



FIXED
(Rigid or self-righting)

DRIVEABLE

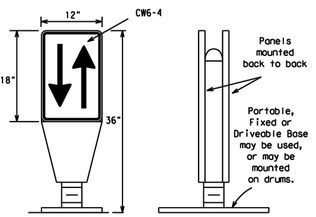


(Rigid or self-righting)

PORTABLE

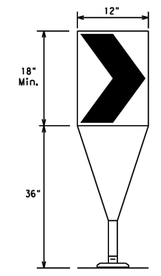
VERTICAL PANELS (VPs)

1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Manual for additional requirements on the use VP's for drop-offs.
3. VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
4. VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
5. Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
6. Sheeting for the VP's shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
7. Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.



OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
2. The OTLD may be used in combination with 42" cones or VPs.
3. Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
4. The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.



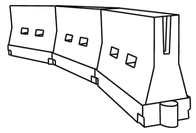
Fixed Base w/ Approved Adhesive (Driveable Base, or Flexible Support can be used)

CHEVRONS

1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
4. To be effective, the chevron should be visible for at least 500 feet.
5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
6. For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

GENERAL NOTES

1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
2. Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
3. Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
6. Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.



LONGITUDINAL CHANNELIZING DEVICES (LCD)

1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.
2. LCDs may be used instead of a line of cones or drums.
3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10). Place reflective sheeting near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

1. Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requirements based on roadway speed and barrier application.
2. Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
4. Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH) urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.
5. When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

If used to channelize pedestrians, longitudinal channelizing devices or water ballasted systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

Posted Speed	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'
35		205'	225'	245'	35'	70'
40		265'	295'	320'	40'	80'
45	L=WS	450'	495'	540'	45'	90'
50		500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60		600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70		700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80		800'	880'	960'	80'	160'

**Taper lengths have been rounded off.
L=Length of Taper (FT.) W=Width of Offset (FT.)
S=Posted Speed (MPH)

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

SHEET 9 OF 12

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21				

103

DATE:
FILE:

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN

CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TXDOT STANDARD
BC (9) - 21

SHEET NUMBER

C-24

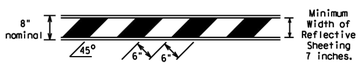
WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

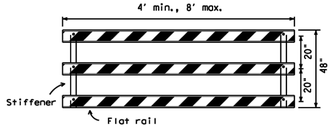
TYPE 3 BARRICADES

1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
2. Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
3. Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road, striping should slope downward in both directions toward the center of roadway.
4. Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
5. Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
7. Warning lights shall NOT be installed on barricades.
8. Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
9. Sheeting for barricades shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

Barricades shall NOT be used as a sign support.

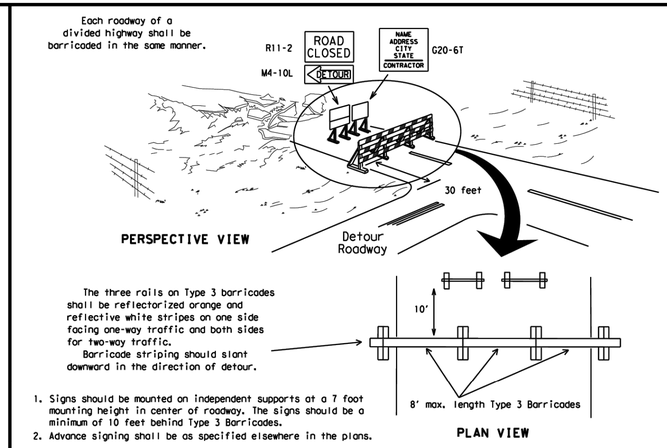


TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



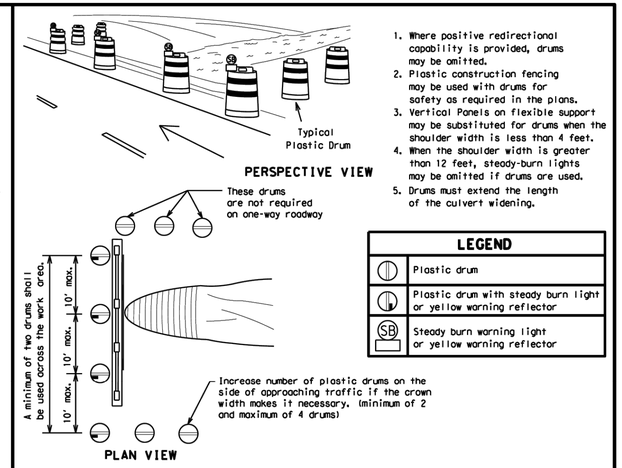
Stiffener may be inside or outside of support, but no more than 2 stiffeners shall be allowed on one barricade.

TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES



1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.

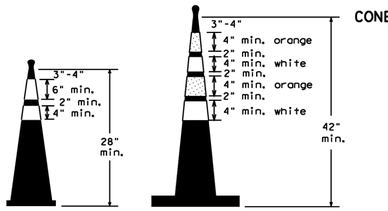
TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



1. Where positive redirectional capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.

LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
SB	Steady burn warning light or yellow warning reflector

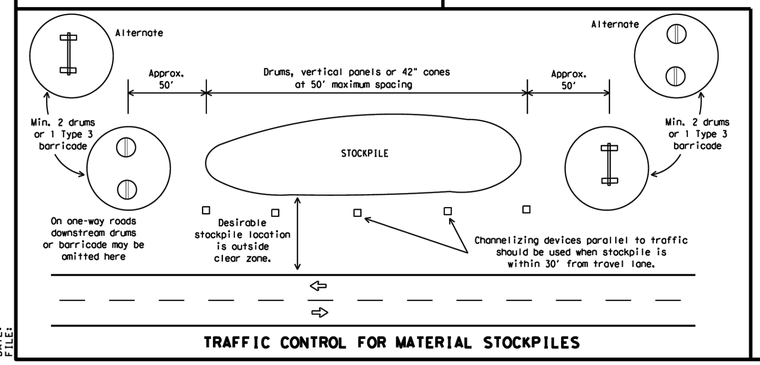
CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS



28" Cones shall have a minimum weight of 9 1/2 lbs.

42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

1. Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
4. Cones or tubular markers shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A or Type B.
5. 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
6. 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
7. Cones or tubular markers used on each project should be of the same size and shape.



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

DATE:
FILE:

SHEET 10 OF 12

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS 9-07 8-14 7-13 5-21	DIST	COUNTY		SHEET NO.

104

K:\CAD\202-001 Town Green @ Round Rock\v4-CAD\PLANS\202-001 TCP.dwg, 4/11/2025 2:01:04 PM, , DWG To PDF.pc3, 1:1, JRW

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TXDOT STANDARD
BC (10) - 21

SHEET NUMBER

C-25

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

WORK ZONE PAVEMENT MARKINGS

GENERAL

1. The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
3. Additional supplemental pavement marking details may be found in the plans or specifications.
4. Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
7. All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

1. Raised pavement markers are to be placed according to the patterns on BC(12).
2. All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

1. Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

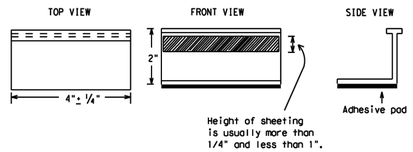
MAINTAINING WORK ZONE PAVEMENT MARKINGS

1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
2. Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
4. Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

REMOVAL OF PAVEMENT MARKINGS

1. Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
2. The above shall not apply to detours in place for less than three days, where floggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
3. Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
6. Blast cleaning may be used but will not be required unless specifically shown in the plans.
7. Over-painting of the markings SHALL NOT BE permitted.
8. Removal of raised pavement markers shall be as directed by the Engineer.
9. Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
10. Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE

1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the roadway.
   A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
   B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.
3. Small design variances may be noted between tab manufacturers.
4. See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

1. Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
3. Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designated as:
YELLOW - (two amber reflective surfaces with yellow body).
WHITE - (one silver reflective surface with white body).

DEPARTMENTAL MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

SHEET 11 OF 12

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC(11)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-98 9-07 5-21 1-02 7-13 11-02 8-14	DIST	COUNTY		SHEET NO.

105

K:\CAD\202-001 Town Green @ Round Rock\4-CAD\PLANS\202-001 TCP.dwg, 4/11/2025 2:01:09 PM, _DWG To PDF.pc3, 1:1, JRW

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

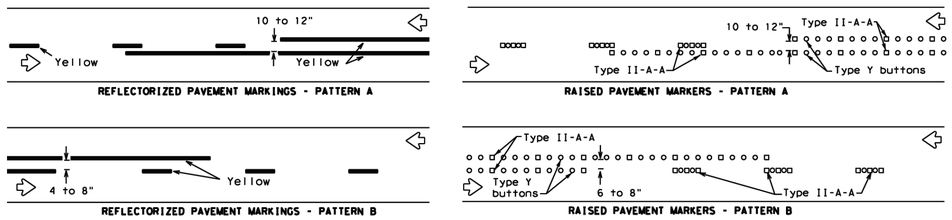
PROJECT NUMBER: 7089

TXDOT STANDARD
BC (11) - 21

SHEET NUMBER
C-26

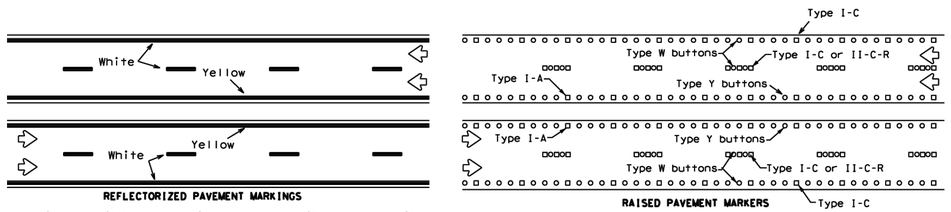
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

PAVEMENT MARKING PATTERNS



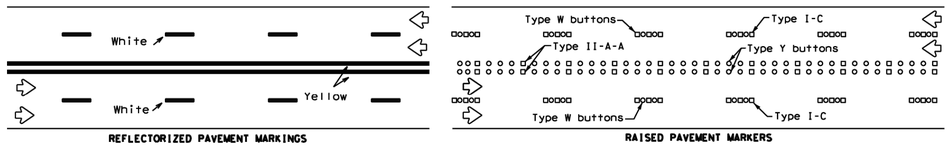
Pattern A is the TXDOT Standard, however Pattern B may be used if approved by the Engineer.
Prefabricated markings may be substituted for reflectorized pavement markings.

CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO-LANE, TWO-WAY HIGHWAYS



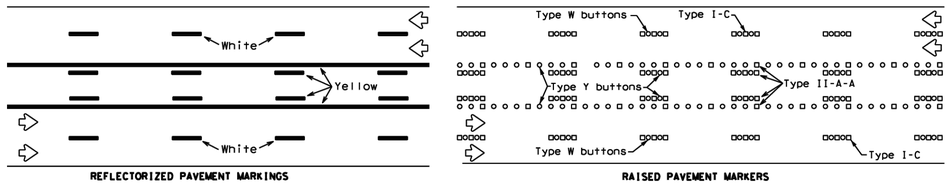
Prefabricated markings may be substituted for reflectorized pavement markings.

EDGE & LANE LINES FOR DIVIDED HIGHWAY



Prefabricated markings may be substituted for reflectorized pavement markings.

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS

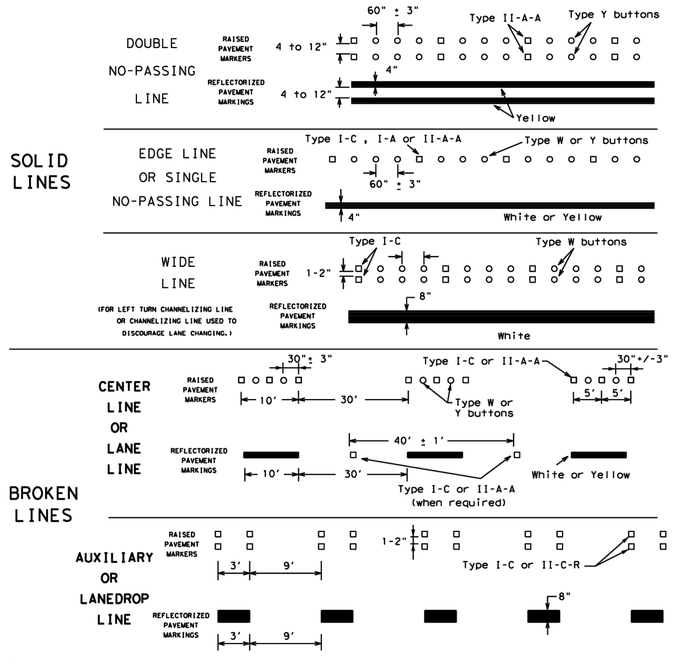


Prefabricated markings may be substituted for reflectorized pavement markings.

TWO-WAY LEFT TURN LANE

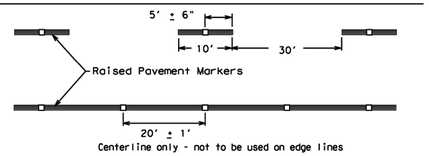
DATE:
FILE:

STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS



REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

If raised pavement markers are used to supplement REMOVABLE markings, the markers shall be applied to the top of the tape at the approximate mid length of tape used for broken lines or at 20 foot spacing for solid lines. This allows an easier removal of raised pavement markers and tape.



Raised pavement markers used as standard pavement markings shall be from the approved products list and meet the requirements of Item 672 "RAISED PAVEMENT MARKERS."

SHEET 12 OF 12

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS 1-97 9-07 5-21 2-98 7-13 11-02 8-14	DIST	COUNTY		SHEET NO.

106

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS — ANTONIO A. PRETE — 93759 — LICENSED PROFESSIONAL ENGINEER — 10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

TXDOT STANDARD
BC (12) - 21

SHEET NUMBER

C-27

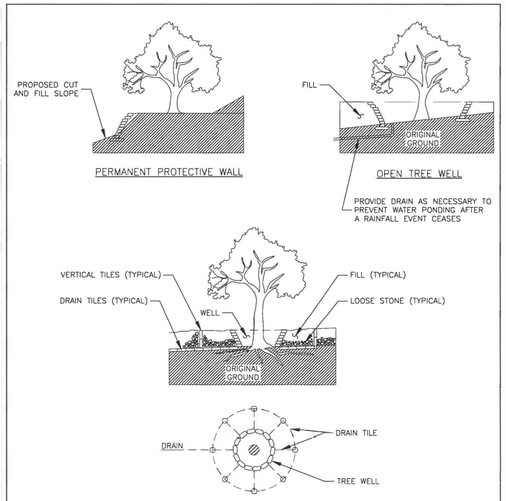
K:\CAD\202-001-Town Green @ Round Rock\4-CAD\PLANS\202-001 TCP.dwg, 4/11/2025 2:01:14 PM, .DWG To PDF.pc3, 1:1, JRW

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING. SEE: TREE PROTECTION TREE WELLS (EC-02), TREE PROTECTION TREE LOCATION (EC-03) AND TREE PROTECTION FENCE-CHAIN LINK (EC-04).
3. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE.
4. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIPLINES.
6. FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE (CRZ), WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   6A. SOIL COMPACTION IN CRZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL.
   6B. CRZ DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE FORESTRY MANAGER.
   6C. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT
   6D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIPLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
   7A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
   7B. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   7C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
   7D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES.
8. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
10. ALL GRADING WITHIN CRZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
12. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRZ.
15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRZ OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
17. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
18. ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). PRUNING SEAL OR TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES.
19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO THE CITY OF ROUND ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.
21. PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL.
22. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS NON COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

SCALE: NTS

RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: EC-01
APPROVED 01-28-21 DATE	TREE PROTECTION NOTES	SHEET 1 of 1
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS



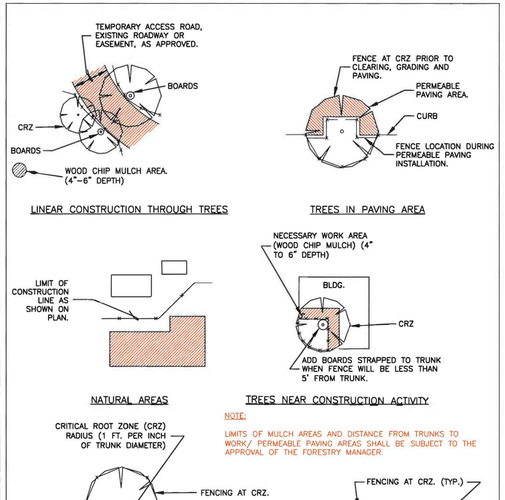
NOTE:

LOCATION, TYPE, DEPTHS AND CONSTRUCTION SPECIFICATIONS OF FILL, DRAINS AND WALLS SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

SCALE: NTS

RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: EC-02
APPROVED 01-28-21 DATE	TREE PROTECTION TREE WELLS	SHEET 1 of 1
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS



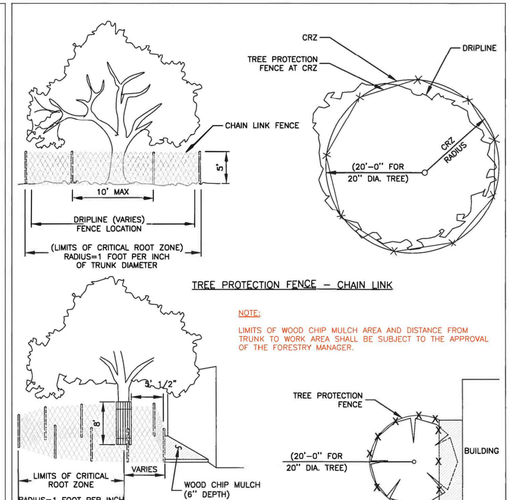
NOTE:

LIMITS OF MULCH AREAS AND DISTANCE FROM TRUNKS TO WORK/ PERMEABLE PAVING AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

SCALE: NTS

RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: EC-03
APPROVED 01-28-21 DATE	TREE PROTECTION FENCE LOCATIONS	SHEET 1 of 1
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS

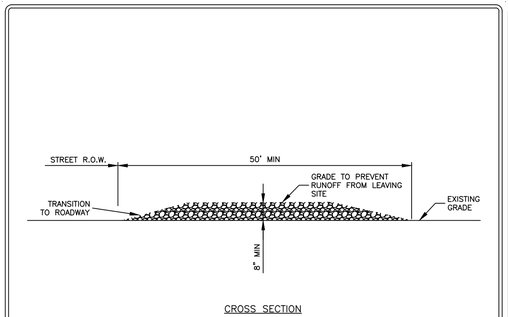


FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

SCALE: NTS

RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: EC-04
APPROVED 01-28-21 DATE	TREE PROTECTION FENCE CHAIN LINK	SHEET 1 of 1
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS

TREE PROTECTION
NTS

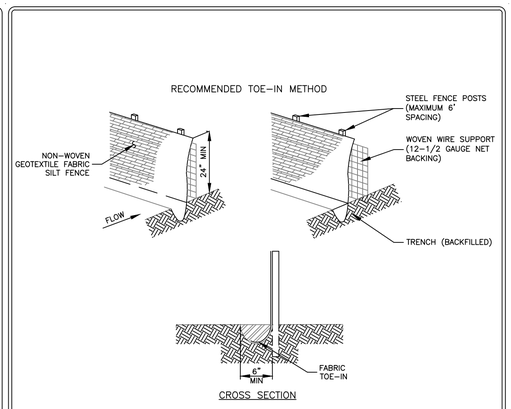


NOTES:

1. STONE SIZE SHALL BE 3" – 8" OPEN GRADED ROCK.
2. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
3. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
4. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.
6. AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-09
APPROVED 03-25-11 DATE	STABILIZED CONSTRUCTION ENTRANCE DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS PUBLIC WORKS DEPARTMENT

STABILIZED CONSTRUCTION ENTRANCE
NTS

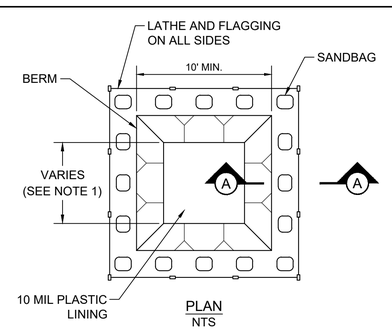


NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MIN. OF ONE (1') FOOT.
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. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHALL BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS SECURELY FASTENED TO THE STEEL FENCE POSTS.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY 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 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. SILT FENCE SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-10
APPROVED 03-25-11 DATE	SILT FENCE DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS PUBLIC WORKS DEPARTMENT

SILT FENCE
NTS



NTS

INSTALLATION NOTES:
1. 10' MIN. OR AS REQUIRED TO CONTAIN WASTE CONCRETE.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
4. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

MAINTENANCE NOTES:
1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY.
4. INSPECT WEEKLY, DURING AND AFTER EVERY STORM EVENT.

TEMPORARY CONCRETE TRUCK WASHOUT AREA
NTS

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

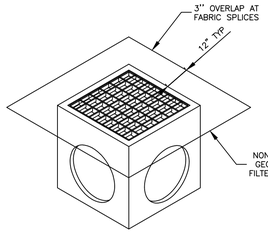
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

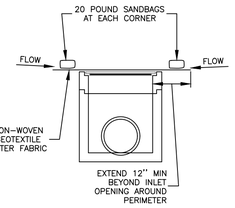
ESC DETAILS (1 OF 2)

SHEET NUMBER
C-28

K:\CAD\202-001-Town Green @ Round Rock\4-CAD\PLANS\202-001 DETAILS.dwg, 4/11/2025 2:01:24 PM, DWG To PDF.pc3, 1:1, JRW



ISOMETRIC



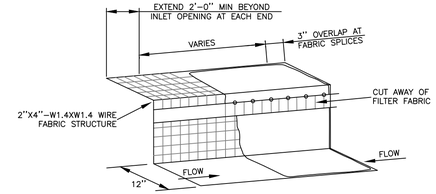
CROSS SECTION

NOTES:

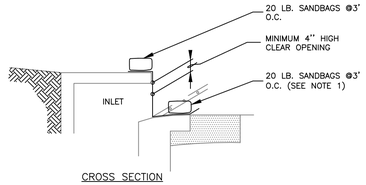
1. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
2. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
3. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-15
APPROVED 03-25-11 DATE	AREA INLET PROTECTION DETAIL	ROUND ROCK TEXAS PEOPLE NEEDS PARTNERS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL (NOT TO SCALE)		

AREA INLET PROTECTION
NTS



ISOMETRIC



CROSS SECTION

NOTES:

1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3' O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-14
APPROVED 03-25-11 DATE	CURB INLET PROTECTION DETAIL	ROUND ROCK TEXAS PEOPLE NEEDS PARTNERS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL (NOT TO SCALE)		

CURB INLET PROTECTION
NTS

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN

CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

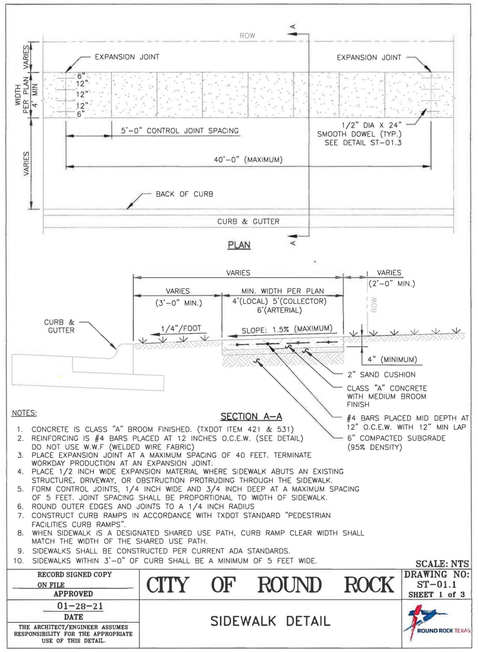
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

ESC DETAILS (2 OF 2)

SHEET NUMBER

C-29



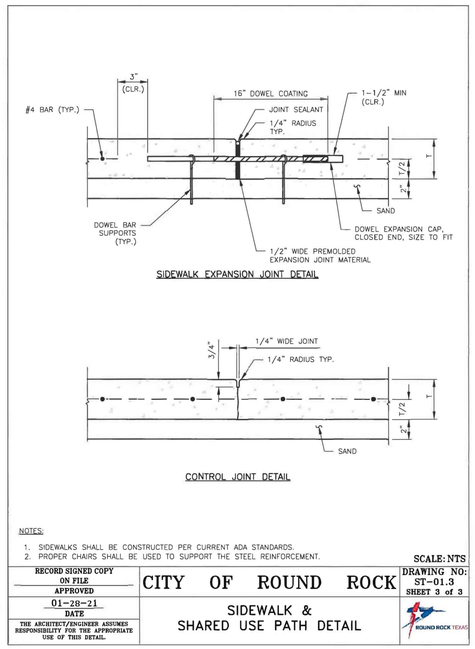
NOTES:

1. CONCRETE IS CLASS "A" BROOM FINISHED. (TXDOT ITEM 421 & 531)
2. REINFORCING IS #4 BARS PLACED AT 12 INCHES O.C.E.W. (SEE DETAIL) DO NOT USE W.W.F (WELDED WIRE FABRIC)
3. PLACE EXPANSION JOINT AT A MAXIMUM SPACING OF 40 FEET. TERMINATE WORKDAY PRODUCTION AT AN EXPANSION JOINT.
4. PLACE 1/2 INCH WIDE EXPANSION MATERIAL WHERE SIDEWALK ABUTS AN EXISTING STRUCTURE, DRIVEWAY, OR OBSTRUCTION PROTRUDING THROUGH THE SIDEWALK.
5. FORM CONTROL JOINTS, 1/4 INCH WIDE AND 3/4 INCH DEEP AT A MAXIMUM SPACING OF 5 FEET. JOINT SPACING SHALL BE PROPORTIONAL TO WIDTH OF SIDEWALK.
6. ROUND OUTER EDGES AND JOINTS TO A 1/4 INCH RADIUS.
7. CONSTRUCT CURB RAMPS IN ACCORDANCE WITH TXDOT STANDARD "PEDESTRIAN FACILITIES CURB RAMPS".
8. WHEN SIDEWALK IS A DESIGNATED SHARED USE PATH, CURB RAMP CLEAR WIDTH SHALL MATCH THE WIDTH OF THE SHARED USE PATH.
9. SIDEWALKS SHALL BE CONSTRUCTED PER CURRENT ADA STANDARDS.
10. SIDEWALKS WITHIN 3'-0" OF CURB SHALL BE A MINIMUM OF 5 FEET WIDE.

SCALE: NTS

RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: ST-01.1
APPROVED 01-28-21 DATE	SIDEWALK DETAIL	SHEET 1 of 3
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK TEXAS

SIDEWALK DETAIL
NTS

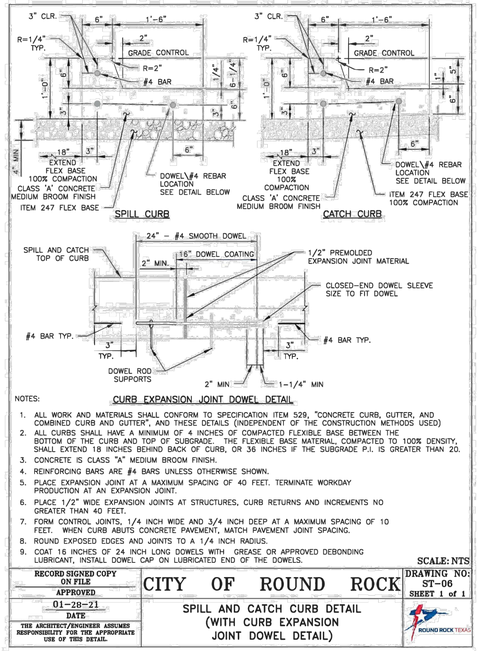


NOTES:

1. SIDEWALKS SHALL BE CONSTRUCTED PER CURRENT ADA STANDARDS.
2. PROPER CHAIRS SHALL BE USED TO SUPPORT THE STEEL REINFORCEMENT.

SCALE: NTS

RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: ST-01.3
APPROVED 01-28-21 DATE	SIDEWALK & SHARED USE PATH DETAIL	SHEET 3 of 3
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK TEXAS



NOTES:

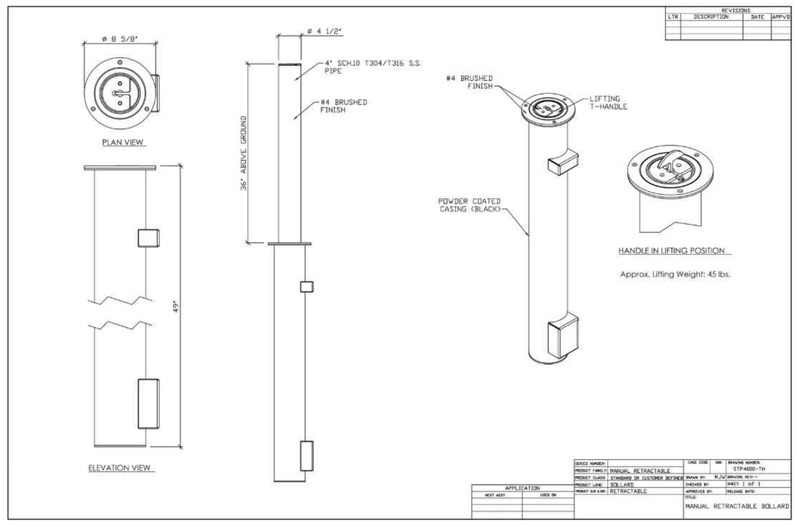
1. ALL WORK AND MATERIALS SHALL CONFORM TO SPECIFICATION ITEM 529, "CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER", AND THESE DETAILS (INDEPENDENT OF THE CONSTRUCTION METHODS USED)
2. ALL CURBS SHALL HAVE A MINIMUM OF 4 INCHES OF COMPACTED FLEXIBLE BASE BETWEEN THE BOTTOM OF THE CURB AND TOP OF SUBGRADE. THE FLEXIBLE BASE MATERIAL, COMPACTED TO 100% DENSITY, SHALL EXTEND 18 INCHES BEHIND BACK OF CURB, OR 36 INCHES IF THE SUBGRADE P.I. IS GREATER THAN 20.
3. CONCRETE IS CLASS "A" MEDIUM BROOM FINISH.
4. REINFORCING BARS ARE #4 BARS UNLESS OTHERWISE SHOWN.
5. PLACE EXPANSION JOINT AT A MAXIMUM SPACING OF 40 FEET. TERMINATE WORKDAY PRODUCTION AT AN EXPANSION JOINT.
6. PLACE 1/2" WIDE EXPANSION JOINTS AT STRUCTURES, CURB RETURNS AND INCREMENTS NO GREATER THAN 40 FEET.
7. FORM CONTROL JOINTS, 1/4 INCH WIDE AND 3/4 INCH DEEP AT A MAXIMUM SPACING OF 10 FEET. WHEN CURB ABUTS CONCRETE PAVEMENT, MATCH PAVEMENT JOINT SPACING.
8. ROUND EXPOSED EDGES AND JOINTS TO A 1/4 INCH RADIUS.
9. COAT 16 INCHES OF 24 INCH LONG DOWELS WITH GREASE OR APPROVED DEBONDING LUBRICANT, INSTALL DOWEL CAP ON LUBRICATED END OF THE DOWELS.

SCALE: NTS

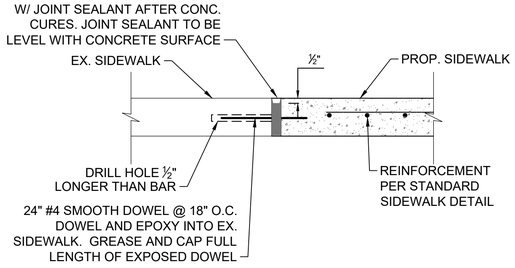
RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: ST-06
APPROVED 01-28-21 DATE	SPILL AND CATCH CURB DETAIL (WITH CURB EXPANSION JOINT DOWEL DETAIL)	SHEET 1 of 1
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK TEXAS

SPILL AND CATCH CURB DETAIL
NTS

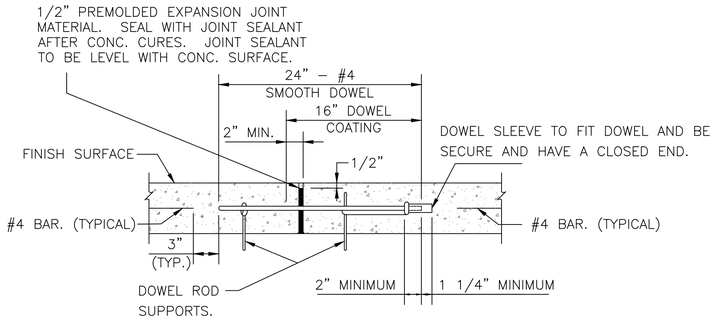
INSTALL PER MFG RECOMMENDATIONS.



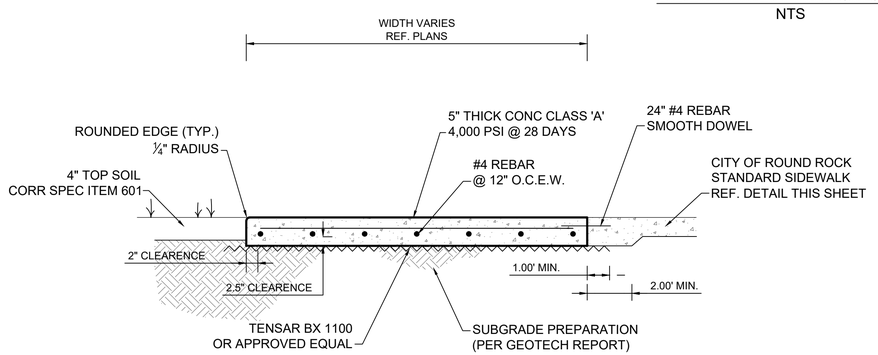
BOLLARD DETAIL
NTS



TYPICAL SIDEWALK EXPANSION JOINT AT EXISTING SIDEWALK CONNECTION
NTS



SIDEWALK EXPANSION JOINT
NTS



SIDEWALK "SPECIAL" TYPICAL SECTION
NTS

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 Apr 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

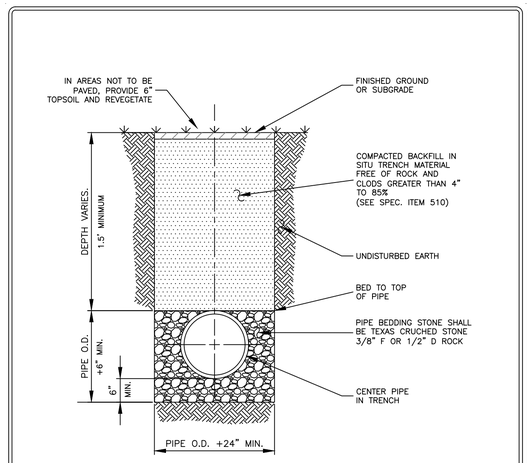
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

SITE DETAILS

SHEET NUMBER

C-30

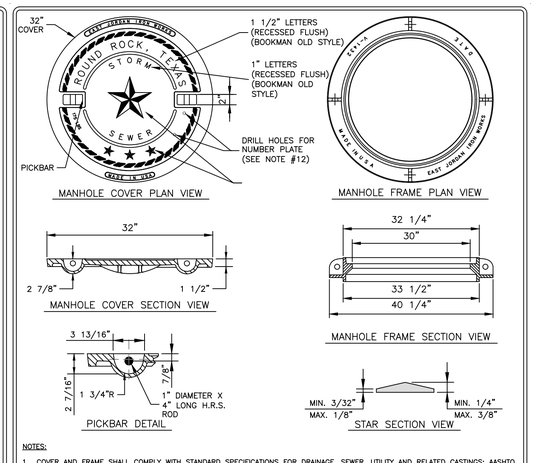


NOTE:

ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: DR-02
APPROVED 04-01-10 DATE	STORM SEWER LINE BEDDING DETAIL (NON-PAVED SURFACE)	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

STORM SEWER LINE BEDDING DETAIL
NTS

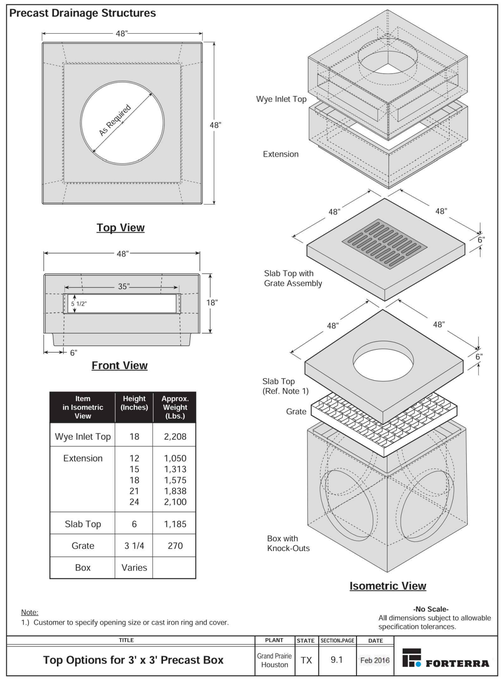


NOTES:

1. COVER AND FRAME SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR DRAINAGE, SEWER, UTILITY AND RELATED CASTINGS: AASHTO DESIGNATION M306-04.
2. MANHOLE COVER SHALL BE MODEL NUMBER: V-1432-3 (PRODUCT NUMBER: 41432058), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
3. MANHOLE FRAME SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432010), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
4. MANHOLE COVER AND FRAME ASSEMBLY, IF ORDERED AS A SET, SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432080), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
5. ALL CORNERS AND EDGES SHALL HAVE A 1/16" MINIMUM AND 1/8" MAXIMUM RADIUS.
6. MANHOLE COVERS SHALL BE CAST WITH TWO 1" DIAMETER STEEL PICKBARS.
7. MANHOLE COVER WEIGHT SHALL BE 175 LBS. FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF COVER.
8. MANUFACTURER SHALL CERTIFY THAT EACH MANHOLE COVER MEETS HS-20 LOADING.
9. FILLETS SHALL BE 1/4" RADIUS UNLESS OTHERWISE SPECIFIED.
10. MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.
11. COVER SHALL BE DIPPED IN A WATER-BASED ASPHALTIC COATING, PRIOR TO SHIPMENT FROM FOUNDRY.
12. MANUFACTURER SHALL DRILL 2-3/16"X1/2" DEEP HOLES FOR A MANHOLE NUMBER PLATE TO BE PROVIDED BY THE CITY OF ROUND ROCK. THE TOP HOLE SHALL BE DRILLED 1" O.C. FROM THE BOTTOM OF THE PICKBAR AND THE BOTTOM HOLE SHALL BE DRILLED 4" O.C. FROM THE TOP HOLE.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: DR-06
APPROVED 04-01-10 DATE	NON-BOLTED STORMSEWER MANHOLE COVER AND FRAME DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

STORM SEWER MANHOLE FRAME & COVER
NTS



Item in Isometric View	Height (Inches)	Approx. Weight (Lbs.)
Wye Inlet Top	18	2,208
Extension	12	1,050
	15	1,313
	18	1,575
	21	1,838
	24	2,100
Slab Top	6	1,185
Grate	3 1/4	270
Box	Varies	

Note:
1.) Customer to specify opening size or cast iron ring and cover.

-No Scale-
All dimensions subject to allowable specification tolerances.

TITLE	PLANT	STATE	SECTION/PAGE	DATE	
Top Options for 3' x 3' Precast Box	Grand Prairie Houston	TX	9.1	Feb 2016	FORTERRA

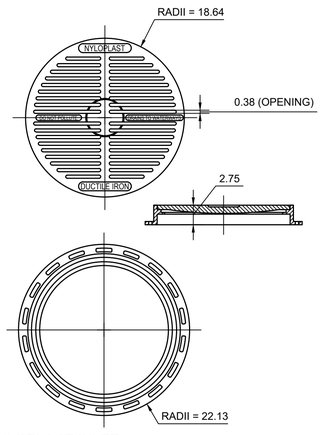
3" X 3" JUNCTION BOX / GRATE INLET
NTS

1899CGP

APPROX. DRAIN AREA = 87.29 SQ. IN.
APPROX. WEIGHT WITH FRAME = 60.75 LBS.

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MET H-10 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

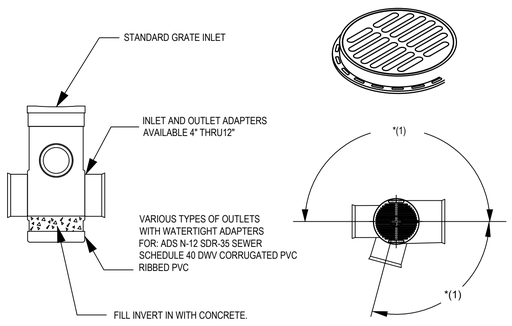
* SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OFJUSTICE, 28 CFR PART 36 LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO 7001-110-028.



18" NYLOPLAST INLET

DRAWN BY EBC	MATERIAL DUCTILE IRON	ADS Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 03-07-06			
REVISED BY CCA	PROJECT NO./NAME	TITLE 18 IN PEDESTRIAN GRATE ASSEMBLY - TYPE C	
DATE 08-30-13			
DWG SIZE A	SCALE 1:10 SHEET 1 OF 1	DWG NO. 7001-110-212	REV D

18" GRATE INLET
NTS



*(1) ADAPTERS CAN BEMOUNTED ON ANY ANGLE 0° TO 359°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

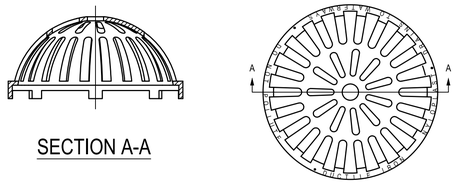
18" NYLOPLAST INLET

DRAWN BY EBC	MATERIAL	ADS Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 04-03-06			
REVISED BY NMH	PROJECT NO./NAME	TITLE 18 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL	
DATE 03-14-16			
DWG SIZE A	SCALE 1:30 SHEET 1 OF 1	DWG NO. 7001-110-191	REV E

18" GRATE INLET
NTS

1299CGD

APPROX. DRAIN AREA = 82.87 SQ IN
APPROX. WEIGHT = 18.50 LBS



SECTION A-A

12" ATRIUM GRATE INLET

DIMENSIONS ARE FOR REFERENCE ONLY SECTION A-A
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST

DRAWN BY EBC	MATERIAL DUCTILE IRON	Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 3-6-06			
REVISED BY EBC	PROJECT NO./NAME	TITLE 12 IN DOME GRATE	
DATE 3-10-11			
DWG SIZE A	SCALE 1:4 SHEET 1 OF 1	DWG NO. 7001-110-206	REV D

* DETAIL MODIFIED BY WAELTZ & PRETE, INC

12" ATRIUM GRATE
NTS

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

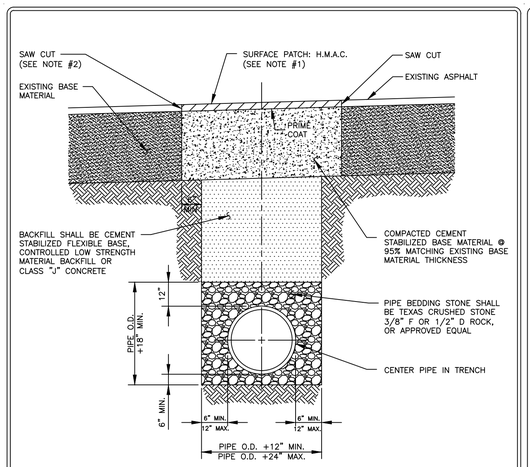
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

STORM DETAILS

SHEET NUMBER
C-31

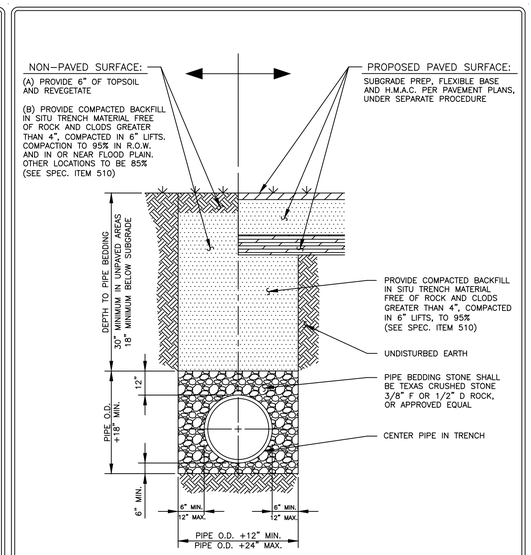
K:\CAD\202-001-Town Green @ Round Rock\4-CAD\PLANS\202-001 DETAIL.dwg, 4/11/2025 2:01:39 PM, DWG To PDF.pc3, 1:1, JRW



NOTES:

1. H.M.A.C. THICKNESS SHALL MATCH EXISTING ASPHALT THICKNESS AND NOT LESS THAN 2".
2. THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE WATERLINE TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER. FINISHED PATCH SHALL BE NEAT AND UNIFORM.
3. INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND SURFACE PATCH SHALL NOT BE PAID FOR SEPARATELY. COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE.
4. THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE.
5. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WT-07
APPROVED 03-01-18 DATE	WATERLINE BEDDING AND SURFACE REPAIR DETAIL (EXISTING PAVED SURFACE)	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS

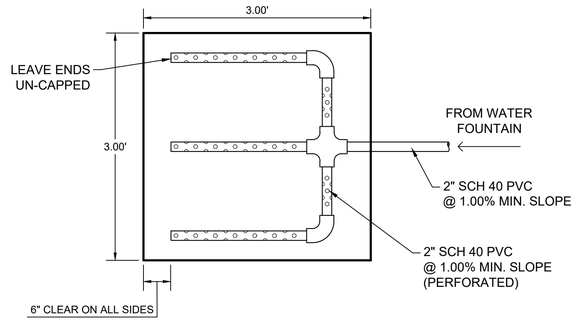


NOTE:

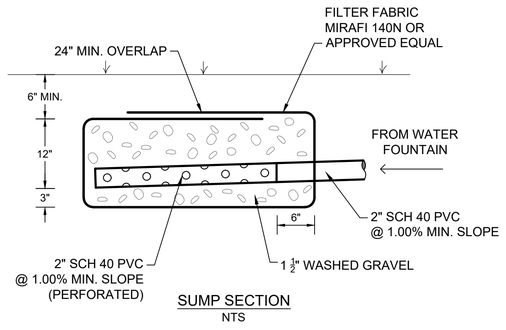
1. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WT-08
APPROVED 03-01-18 DATE	WATERLINE BEDDING AND SURFACE REPAIR DETAIL (NON-PAVED & PROPOSED PAVED SURFACE)	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		ROUND ROCK TEXAS

WATERLINE BEDDING AND SURFACE REPAIR
NTS



SUMP PLAN VIEW
NTS



SUMP SECTION
NTS

WATER FOUNTAIN SUMP
NTS

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

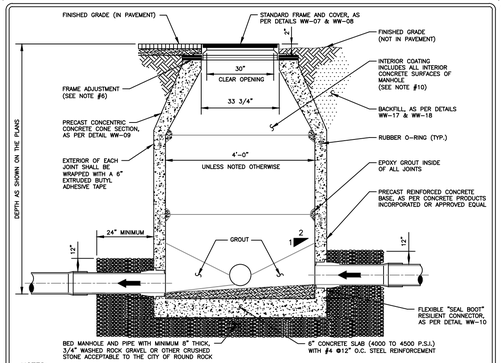
100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

WATER DETAILS

SHEET NUMBER
C-32

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

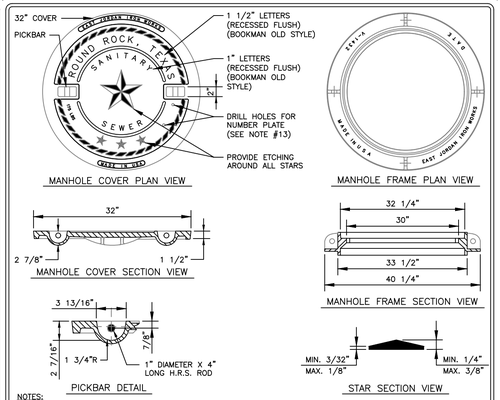


NOTES:

1. IF DROP IS SIX INCHES (6") TO TWO FEET (2'-0"), CONSTRUCTION OF DROP SHALL PROVIDE AN OVERSIZED INVERT TO EXTEND UNDER THE DROP CONNECTION.
2. SEE CONSTRUCTION PLANS FOR MANHOLE SIZE, LOCATION, CONFIGURATION, TYPE OF TOP SECTION, VENTING REQUIREMENTS, PIPE SIZES AND TYPES.
3. MANHOLES SHALL BE PRECAST A.S.T.M. C478 BELL AND SPIGOT WITH "O" RING JOINTS.
4. MANHOLES TO BE DESIGNED TO RESIST LATERAL AND VERTICAL SOIL FORCES RESULTING FROM MANHOLE DEPTH. ADDITIONALLY, MANHOLES LOCATED IN PAVEMENT TO BE DESIGNED FOR H20 TRAFFIC LOADING.
5. ALL MANHOLE COVERS SHALL BE BOLTED AND GASKETED, WHEN MANHOLES ARE LOCATED OUTSIDE OF PAVEMENT.
6. FRAME ADJUSTMENT HEIGHT SHALL CONSIST OF FIVE INCHES (5") MINIMUM TO EIGHTEEN INCHES (18") MAXIMUM. GRADE RINGS SHALL BE GROUTED WITH A NON-SHRINK GROUT INSIDE AND OUTSIDE. HDPE GRADE RINGS, MAY NOT BE USED.
7. FOR MANHOLES TO BE VENTED, SEE DETAILS WW-05 AND WW-06.
8. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO THE FLOW STREAM. ALL P.V.C. PIPE SHALL BE REMOVED FROM INVERT.
9. BASE SECTION SHALL BE DESIGNED FOR H20 LOADING, PLUS EARTH LOAD AT 130 PCF.
10. ENTIRE INTERIOR CONCRETE SURFACES OF WASTEWATER MANHOLES TO BE COATED WITH RAVEN 405, SPRAYWALL, OR APPROVED EQUAL, (WITH A UNIFORM THICKNESS OF 124 MILS AND A MINIMUM THICKNESS OF 100 MILS, APPLIED AFTER MANHOLE HAS PASSED THE VACUUM TEST). FOR REHABILITATING MANHOLES 1/2" MINIMUM THICKNESS CALCIUM ALUMINATE CEMENTITIOUS COATING AND OTHER INTERIOR SURFACES MAY BE COATED IF RECOMMENDED BY COATING MANUFACTURER. (IN LIEU OF INTERIOR COATINGS NEW PRECAST MANHOLES CONTAINING CONSHIELD WILL BE ACCEPTED PROVIDING THE MANUFACTURER STENCILS "CONSHIELD" ON THE INSIDE AND OUTSIDE OF ALL MANHOLE SECTIONS.)

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-01
APPROVED 03-01-18 DATE	PRECAST CONCRETE WASTEWATER MANHOLE DETAIL	ROUND ROCK TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

PRECAST WASTEWATER MANHOLE
NTS

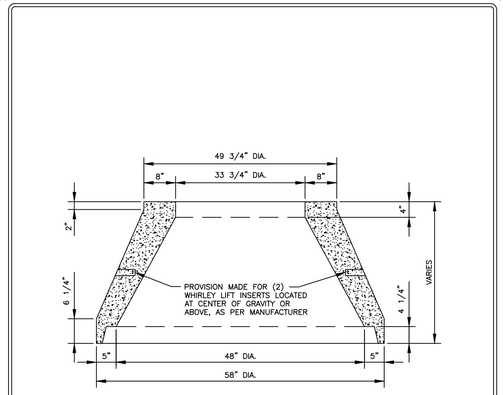


NOTES:

1. COVER AND FRAME SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR DRAINAGE, SEWER, UTILITY AND RELATED CASTINGS: AASHTO DESIGNATION M306-04.
2. MANHOLE COVER SHALL BE MODEL NUMBER: V-1432-3 (PRODUCT NUMBER: 41432059), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
3. MANHOLE FRAME SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432010), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
4. MANHOLE COVER AND FRAME ASSEMBLY, IF ORDERED AS A SET, SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432089), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
5. ALL CORNERS AND EDGES SHALL HAVE A 1/16" MINIMUM AND 1/8" MAXIMUM RADIUS.
6. MANHOLE COVERS SHALL BE CAST WITH TWO 1" DIAMETER STEEL PICKBARS.
7. MANHOLE COVER WEIGHT SHALL BE 175 LBS. FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF COVER.
8. MANUFACTURER SHALL CERTIFY THAT EACH MANHOLE COVER MEETS HS-20 LOADING.
9. FILLETS SHALL BE 1/4" RADIUS UNLESS OTHERWISE SPECIFIED.
10. MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.
11. COVER SHALL BE DIPPED IN A WATER-BASED ASPHALTIC COATING, PRIOR TO SHIPMENT FROM FOUNDRY.
12. MANUFACTURER SHALL DRILL 2-3/16" X 1/2" DEEP HOLES FOR A MANHOLE NUMBER PLATE TO BE PROVIDED BY THE CITY OF ROUND ROCK. THE TOP HOLE SHALL BE DRILLED 1" O.C. FROM THE BOTTOM OF THE PICKBAR AND THE BOTTOM HOLE SHALL BE DRILLED 4" O.C. FROM THE TOP HOLE.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-08
APPROVED 03-01-18 DATE	NON-BOLTED WASTEWATER MANHOLE COVER AND FRAME DETAIL	ROUND ROCK TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

NON-BOLTED WASTEWATER MANHOLE COVER
NTS

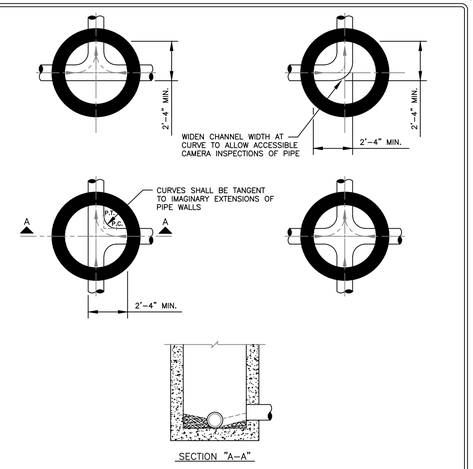


NOTE:

CONCENTRIC CONCRETE CONE SECTION SHALL BE MANUFACTURED USING 4000 TO 4500 P.S.I. CONCRETE, 28 DAY STRENGTH AND IN ACCORDANCE WITH A.S.T.M. C478, AS MANUFACTURED BY CONCRETE PRODUCTS INCORPORATED, OR APPROVED EQUAL.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-09
APPROVED 03-01-18 DATE	PRECAST 48" CONCENTRIC CONCRETE CONE SECTION DETAIL	ROUND ROCK TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

PRECAST CONCENTRIC CONCRETE CONE SECTION
NTS

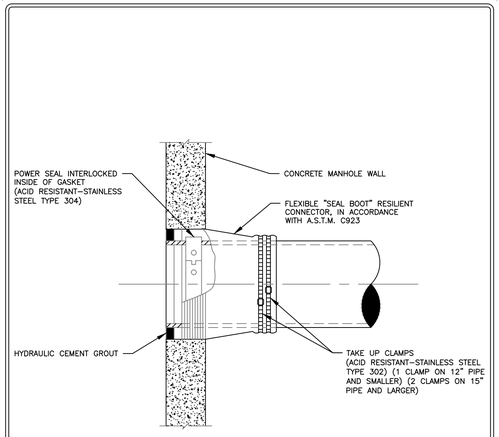


NOTES:

1. MINIMUM DROP FROM INLET TO OUTLET OF MANHOLE IS 0.1 FEET AND MAXIMUM DROP IS 2 FEET, UNLESS SPECIAL APPROVAL IS OBTAINED FROM THE CITY OF ROUND ROCK.
2. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
3. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOW.
4. CHANNELS FOR FUTURE CONSTRUCTIONS, SHALL BE CONSTRUCTED WITH PIPE EXTENDING 3' BEYOND EXTERIOR OF MANHOLE WALL, WITH GLUED PLUG.
5. SLOPE MANHOLE BENCH AT 2:1 SLOPE FROM MANHOLE WALL TO CHANNEL.
6. INVERT CHANNEL SHALL BE A MINIMUM OF 1/2 THE DIAMETER OF THE LARGEST PIPE OR FOUR INCHES (4") DEEP.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-11
APPROVED 03-01-18 DATE	WASTEWATER FLOW PATTERNS FOR INVERT CHANNELS DETAIL	ROUND ROCK TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

WASTEWATER FLOW PATTERNS
NTS

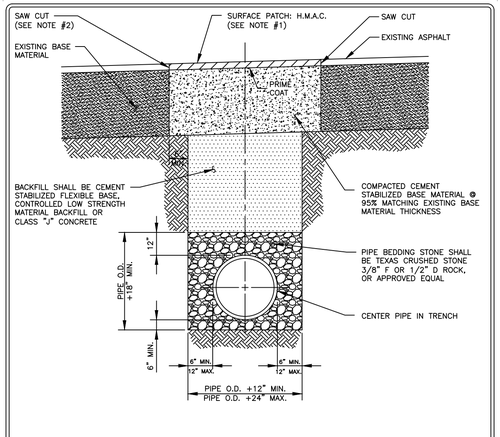


NOTE:

1. FLEXIBLE "SEAL BOOT" RESILIENT CONNECTOR TO BE A MINIMUM OF 12 INCHES (12") FROM A MANHOLE JOINT.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-10
APPROVED 03-01-18 DATE	FLEXIBLE "SEAL BOOT" RESILIENT CONNECTOR DETAIL	ROUND ROCK TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

FLEXIBLE "SEAL BOOT" RESILIENT CONNECTOR
NTS

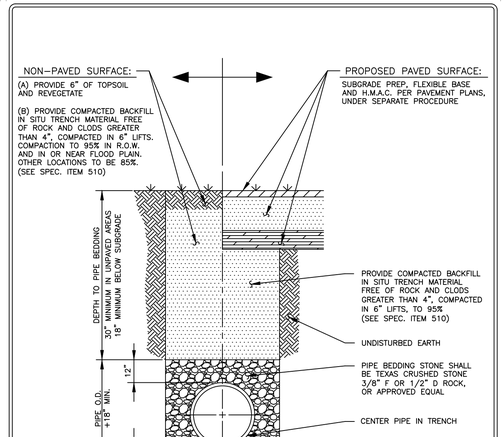


NOTES:

1. H.M.A.C. THICKNESS SHALL MATCH EXISTING ASPHALT THICKNESS AND NO LESS THAN 2".
2. THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE WASTEWATER LINE TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER. FINISHED PATCH SHALL BE NEAT AND UNIFORM.
3. INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND SURFACE PATCH SHALL NOT BE PAID FOR SEPARATELY; COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BID FOR WASTEWATER PIPE.
4. THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BID FOR WASTEWATER PIPE.
5. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-17
APPROVED 03-01-18 DATE	WASTEWATER LINE BEDDING AND SURFACE REPAIR DETAIL (EXISTING PAVED SURFACE)	ROUND ROCK TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

WASTEWATER LINE BEDDING & SURFACE REPAIR
NTS



NOTE:

ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-18
APPROVED 03-01-18 DATE	WASTEWATER LINE BEDDING AND SURFACE REPAIR DETAIL (NON-PAVED & PROPOSED PAVED SURFACE)	ROUND ROCK TEXAS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

WASTEWATER LINE BEDDING & SURFACE REPAIR
NTS

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS — ANTONIO A. PRETE — 93759 — LICENSED PROFESSIONAL ENGINEER — 10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: _____ REVIEWED: _____

100% CONSTRUCTION DOCUMENTS

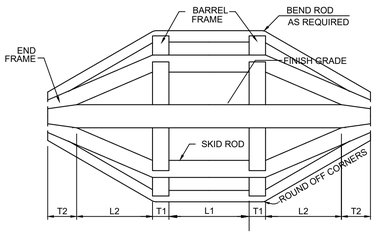
PROJECT NUMBER: 7089

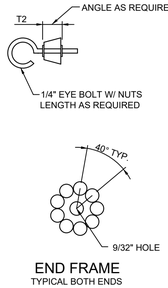
WASTEWATER DETAILS (1 OF 2)

SHEET NUMBER

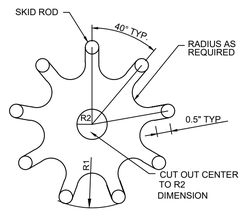
C-33

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308





END FRAME
TYPICAL BOTH ENDS



BARREL FRAME

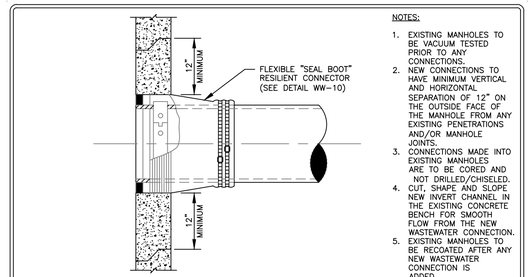
SIZE	TYPE	O.D. AVERAGE	MIN. WALL THICKNESS	R1	R2	L1	L2	T1	T2	ROD DIAMETER
6"	D3034 SDR35	6.275	0.180	2.810	0.750	4.500	6.000	0.375	1.000	0.375
6"	D3034 SDR26	6.275	0.241	2.750	1.750	4.500	6.000	0.375	1.000	0.375
6"	D2241 SDR26	6.625	0.255	2.900	0.750	4.500	6.000	0.375	1.000	0.375
8"	D3034 SDR35	8.400	0.241	3.760	1.250	6.000	6.000	0.375	1.000	0.375
8"	D3034 SDR26	8.400	0.323	3.680	1.250	6.000	6.000	0.375	1.000	0.375
8"	D2241 SDR26	8.625	0.331	3.780	1.250	6.000	6.000	0.375	1.000	0.375
10"	D3034 SDR35	10.50	0.300	4.700	1.500	7.500	6.000	0.375	1.000	0.375
10"	D3034 SDR26	10.50	0.404	4.600	1.500	7.500	6.000	0.375	1.000	0.375
10"	D2241 SDR26	10.75	0.413	4.710	1.500	7.500	6.000	0.375	1.000	0.375
12"	D3034 SDR35	12.50	0.357	5.600	1.750	9.000	6.000	0.375	1.000	0.375
12"	D3034 SDR26	12.50	0.481	5.480	1.750	9.000	6.000	0.375	1.000	0.375
12"	D2241 SDR26	12.75	0.490	5.590	1.750	9.000	6.000	0.375	1.000	0.375
15"	D3034 SDR35	15.30	0.437	6.850	2.000	11.250	6.000	0.375	1.000	0.375
15"	D3034 SDR26	15.30	0.588	6.710	2.000	11.250	6.000	0.375	1.000	0.375
16"	D2241 SDR26	16.0	0.615	7.010	2.000	11.250	6.000	0.375	1.000	0.375
18"	F679 T-1	18.701	0.536	8.060	2.500	13.500	9.000	0.500	1.500	0.500
21"	F679 T-1	22.047	0.632	9.500	3.000	150.750	9.000	0.500	1.500	0.500
24"	F679 T-1	24.803	0.711	10.680	3.500	18.000	9.000	0.500	1.500	0.500
27"	F679 T-1	27.953	0.801	12.030	4.000	20.25	9.000	0.500	1.500	0.500

*MANDREL SHALL HAVE AN OUTSIDE DIAMETER (O.D.) EQUAL TO 95% OF THE INSIDE DIAMETER (I.D.) OF THE PIPE.

NOTES:

1. MANDREL SHALL BE CONSTRUCTED OF METAL OR A RIGID PLASTIC MATERIAL THAT CAN WITHSTAND 200PSI WITHOUT BEING DEFORMED.
2. AFTER WELDING IS COMPLETED, TRUE THE OUTSIDE DIAMETER DIMENSION. FOR THE FULL LENGTH OF "B" TO 0.010".
3. A PROVING RING SHALL BE PROVIDED AND USED FOR EACH SIZE MANDREL IN USE.
4. MANDREL OD MUST BE EQUAL TO 95% OF THE ID OF THE PIPE
5. MANDREL BARREL LENGTH 'B' MUST BE EQUAL TO 75% OF THE ID OF THE PIPE
6. ADJUSTABLE MANDREL IS NOT ACCEPTABLE.

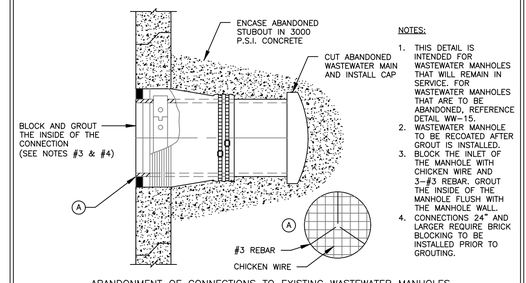
WASTEWATER MANDREL
NTS



NOTES:

1. EXISTING MANHOLES TO BE VACUUM TESTED PRIOR TO ANY CONNECTIONS.
2. NEW CONNECTIONS TO HAVE MINIMUM VERTICAL AND HORIZONTAL SEPARATION OF 12" ON THE OUTSIDE FACE OF THE MANHOLE FROM ANY EXISTING PENETRATIONS AND/OR MANHOLE JOINTS.
3. CONNECTIONS MADE INTO EXISTING MANHOLES ARE TO BE CORED AND NOT DRILLED/CHISELED.
4. CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM THE NEW WASTEWATER CONNECTION.
5. EXISTING MANHOLES TO BE RECOATED AFTER ANY NEW WASTEWATER CONNECTION IS ADDED.

NEW CONNECTIONS TO EXISTING WASTEWATER MANHOLES



NOTES:

1. THIS DETAIL IS INTENDED FOR WASTEWATER MANHOLES THAT WILL REMAIN IN SERVICE. FOR WASTEWATER MANHOLES THAT ARE TO BE ABANDONED, REFERENCE DETAIL WW-15.
2. WASTEWATER MANHOLE TO BE RECOATED AFTER GROUT IS INSTALLED.
3. BLOCK THE INLET OF THE MANHOLE WITH CHICKEN WIRE AND 3-#3 REBAR. GROUT THE INSIDE OF THE MANHOLE FLUSH WITH THE MANHOLE WALL.
4. CONNECTIONS 24" AND LARGER REQUIRE BRICK BLOCKING TO BE INSTALLED PRIOR TO GROUTING.

ABANDONMENT OF CONNECTIONS TO EXISTING WASTEWATER MANHOLES

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT APPROVED 03-01-18 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	CITY OF ROUND ROCK EXISTING WASTEWATER MANHOLE CONNECTION DETAIL	DRAWING NO: WW-21

EXISTING WASTEWATER CONNECTION
NTS

WAELTZ & PRETE, INC.
CIVIL ENGINEERS
211 N. A.W. GRIMES BLVD.
ROUND ROCK, TX. 78665
PH (512) 505-8953
FIRM TX. REG. #F-10308

DESIGNWORKSHOP
Landscape Architecture • Land Planning
Urban Design • Tourism Planning
Aspen • Austin • Chicago • Denver • Houston
Lake Tahoe • Los Angeles • Raleigh
812 San Antonio Street
Suite 401
Austin, Texas 78701
(512) 499-0222
WWW.DESIGNWORKSHOP.COM

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED PROFESSIONAL ENGINEER
10 April 25

ROUND ROCK TOWN GREEN
CITY OF ROUND ROCK
100 W MAIN ST
ROUND ROCK, TX 78664

ARCHITECTURE
MCKINNEY YORK ARCHITECTS
1301 E 7TH ST
AUSTIN, TX 78702
(512) 476-0201

CIVIL
WAELTZ AND PRETE
211 N A.W. GRIMES BLVD
ROUND ROCK, TX 78665
(512) 505-8953
TX REG. #F-10308

IRRIGATION
JAS IRRIGATION DESIGN
PFLUGERVILLE, TX 786650
(512) 989-8808

MEP
HENDRIX
115 E. MAIN STREET
ROUND ROCK, TX 78864
(512) 218-0060

STRUCTURAL
PICKETT, KELM & ASSOCIATES, INC. (No. F-1491)
4100 DUVAL ROAD, BUILDING 4, SUITE 103
AUSTIN, TX 78759
(512) 345-5538
TX REG. #F-1491

ISSUE DATE: 10 APRIL 2025

REVISIONS

#	DATE	DESCRIPTION

DRAWN: REVIEWED:

100% CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 7089

WASTEWATER DETAILS (2 OF 2)

SHEET NUMBER

C-34