



Contributing Zone Plan

Patriot Erectors

Prepared for: Patriot Erectors, LLC

Prepared by: BGE, Inc.

TBPE Registered Firm #: 1046

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 if not withdrawn the application will be denied and 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 to you:

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- 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 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 effected jurisdictions.

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

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

1. Regulated Entity Name: Patriot Erectors				2. Regulated Entity No.: RN101249258			
3. Customer Name: Patriot Erectors LLC				4. Customer No.: 606153120			
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	<input type="radio"/> Modification		<input type="radio"/> Extension		<input type="radio"/> Exception	
6. Plan Type: (Please circle/check one)	<input type="radio"/> WPAP	<input checked="" type="radio"/> CZP	<input type="radio"/> SCS	<input type="radio"/> UST	<input type="radio"/> AST	<input type="radio"/> EXP	<input type="radio"/> EXT
7. Land Use: (Please circle/check one)	<input type="radio"/> Residential	<input checked="" type="radio"/> Non-residential			8. Site (acres):		36.8
9. Application Fee:	\$6,500.00	10. Permanent BMP(s):			Batch Detention Pond		
11. SCS (Linear Ft.):		12. AST/UST (No. Tanks):					
13. County:	Hays	14. Watershed:			Onion Creek – Colorado River		

Application Distribution

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

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

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

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

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<u> </u> Edwards Aquifer Authority <u> </u> Trinity-Glen Rose	<u> </u> Edwards Aquifer Authority	<u> </u> Kinney	<u> </u> EAA <u> </u> Medina	<u> </u> EAA <u> </u> Uvalde
City(ies) Jurisdiction	<u> </u> Castle Hills <u> </u> Fair Oaks Ranch <u> </u> Helotes <u> </u> Hill Country Village <u> </u> Hollywood Park <u> </u> San Antonio (SAWS) <u> </u> Shavano Park	<u> </u> Bulverde <u> </u> Fair Oaks Ranch <u> </u> Garden Ridge <u> </u> New Braunfels <u> </u> Schertz	NA	<u> </u> 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.	
Joseph A. Yaklin, P.E.	
Print Name of Customer/Authorized Agent	4-24-27
Signature of Customer/Authorized Agent	Date

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

Contributing Zone Plan Application

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Joseph A. Yaklin, P.E.

Date: 4-24-24

Signature of Customer/Agent:



Regulated Entity Name: Patriot Erectors

Project Information

1. County: Hays
2. Stream Basin: Onion Creek
3. Groundwater Conservation District (if applicable): Hays Trinity GCD
4. Customer (Applicant):

Contact Person: John Matl

Entity: Patriot Erectors LLC

Mailing Address: 3023 West Highway 290

City, State: Dripping Springs, TX

Telephone: (512) 829-8699

Email Address: MatlJ@patrioterectors.com

Zip: 78620

Fax: N/A

5. Agent/Representative (If any):

Contact Person: Joseph A. Yaklin, P.E.

Entity: BGE, Inc.

Mailing Address: 101 West Louis Henna Blvd. Suite 400

City, State: Austin, TX

Zip: 78728

Telephone: (832) 592-2734

Fax: _____

Email Address: JYaklin@bgeinc.com

6. Project Location:

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

7. ☒ The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

3023 West Highway 290, Dripping Springs, TX 78620

8. ☒ **Attachment A - Road Map.** A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

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

- ☒ Project site boundaries.
- ☒ USGS Quadrangle Name(s).

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

- ☒ Area of the site
- ☒ Offsite areas
- ☒ Impervious cover
- ☒ Permanent BMP(s)
- ☒ Proposed site use
- ☒ Site history
- ☒ Previous development
- ☒ Area(s) to be demolished

11. Existing project site conditions are noted below:

- ☒ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site

- ☒ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☐ Undeveloped (Undisturbed/Not cleared)
☐ Other: _____

12. The type of project is:

- ☐ Residential: # of Lots: _____
☐ Residential: # of Living Unit Equivalents: _____
☒ Commercial
☐ Industrial
☐ Other: _____

13. Total project area (size of site): 36.8 Acres

Total disturbed area: 7.4 Acres

14. Estimated projected population: 0

15. The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
Structures/Rooftops	10,431	÷ 43,560 =	0.2
Parking	14,285	÷ 43,560 =	0.3
Other paved surfaces	768,076	÷ 43,560 =	17.7
Total Impervious Cover	792,792	÷ 43,560 =	18.2

Total Impervious Cover $18.2 \div \text{Total Acreage } 36.8 \times 100 = 49.46\%$ Impervious Cover

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

For Road Projects Only

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

☒ N/A

18. Type of project:

- ☐ TXDOT road project.
- ☐ County road or roads built to county specifications.
- ☐ City thoroughfare or roads to be dedicated to a municipality.
- ☐ Street or road providing access to private driveways.

19. Type of pavement or road surface to be used:

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

20. Right of Way (R.O.W.):

Length of R.O.W.: _____ feet.

Width of R.O.W.: _____ feet.

$L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$

21. Pavement Area:

Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

$L \times W = \text{_____ Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} = \text{_____ acres.}$

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 = \text{_____ \%}$ impervious cover.

22. ☐ A rest stop will be included in this project.
- ☐ A rest stop will not be included in this project.
23. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

26. Wastewater will be disposed of by:

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

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

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

☐ Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.

☐ Proposed.

☒ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

☒ N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
1			
2			
3			
4			
5			

Total x 1.5 = _____ Gallons

28. ☐ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than

5 of 11

one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

- ☐ **Attachment G - Alternative Secondary Containment Methods.** Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

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

Table 3 - Secondary Containment

<i>Length (L)(Ft.)</i>	<i>Width(W)(Ft.)</i>	<i>Height (H)(Ft.)</i>	<i>L x W x H = (Ft3)</i>	<i>Gallons</i>

Total: _____ Gallons

30. Piping:

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

31. ☐ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: _____.

32. ☐ **Attachment H - AST Containment Structure Drawings.** A scaled drawing of the containment structure is attached that shows the following:

- ☐ Interior dimensions (length, width, depth and wall and floor thickness).
- ☐ Internal drainage to a point convenient for the collection of any spillage.
- ☐ Tanks clearly labeled
- ☐ Piping clearly labeled
- ☐ Dispenser clearly labeled

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

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

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

Site Plan Requirements

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

34. ☒ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 100'.
35. 100-year floodplain boundaries:
- ☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
- ☒ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): _____.
36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
- ☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.
38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
39. ☒ Areas of soil disturbance and areas which will not be disturbed.
40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41. ☒ Locations where soil stabilization practices are expected to occur.
42. ☐ Surface waters (including wetlands).
☒ N/A
43. ☐ Locations where stormwater discharges to surface water.
☒ There will be no discharges to surface water.
44. ☐ Temporary aboveground storage tank facilities.
☒ Temporary aboveground storage tank facilities will not be located on this site.

45. ☐ Permanent aboveground storage tank facilities.
☒ Permanent aboveground storage tank facilities will not be located on this site.
46. ☒ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

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

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

- ☐ **Attachment I - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
- ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ☒ The site will not be used for multi-family residential developments, schools, or small business sites.

52. ☒ **Attachment J - BMPs for Upgradient Stormwater.**

- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. ☒ **Attachment K - BMPs for On-site Stormwater.**

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

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

☒ N/A

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

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

☐ N/A

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

- ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
- ☒ Signed by the owner or responsible party
- ☒ Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
- ☒ Contains a discussion of record keeping procedures

☐ N/A

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

☒ N/A

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

☐ N/A

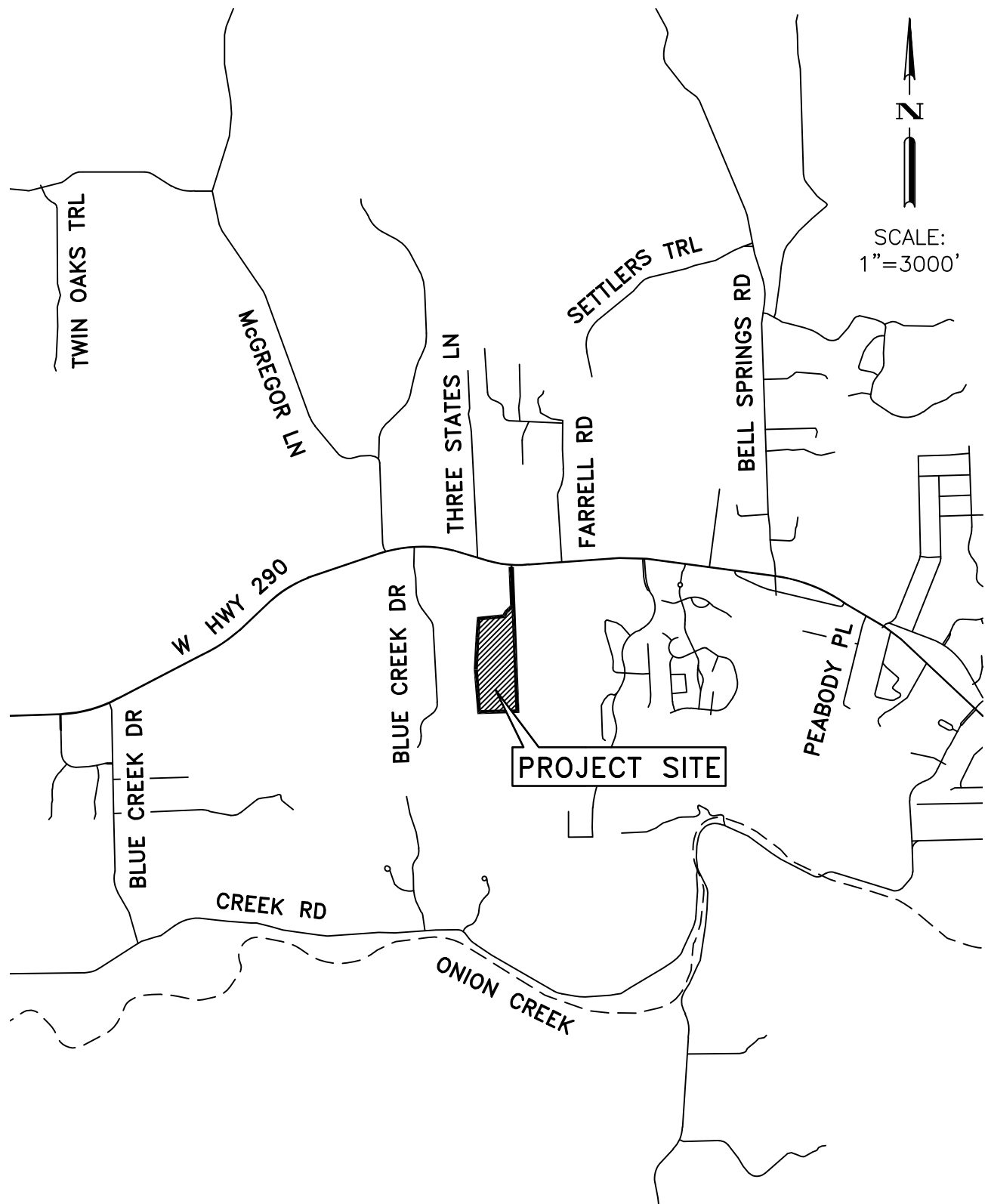
Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

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

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

Administrative Information

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



PATRIOT ERECTORS CONTRIBUTING ZONE PLAN

LOCATION MAP

BROWN & GAY ENGINEERS, INC.
 101 W LOUIS HENNA BLVD, SUITE 400
 AUSTIN, TX 78728 TBPE Registration No.
 F-1046
 TEL: 512-879-0400 www.browngay.com





U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



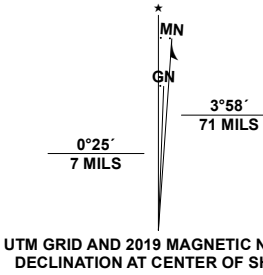
HENLY QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84), Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 14R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3
4	5	6
7	8	9

- 1 Pedernales Falls
- 2 Hammetts Crossing
- 3 Shingle Hills
- 4 Yeager Creek
- 5 Dripping Springs
- 6 Payton
- 7 Rough Hollow
- 8 Driftwood

ROAD CLASSIFICATION		
Expressway	Local Connector	
Secondary Hwy	Local Road	
Ramp	4WD	
Interstate Route	US Route	State Route

HENLY, TX
2022



Attachment C – Project Narrative

Area of the Site

The Patriot Erectors Site is home to a steel fabrication and erection services company located at 3023 West Highway 290, Dripping Springs, TX 78620. Relatively recent construction was observed within the subject 36.8-acre property without proper approvals. The tract lies within the Edward's Aquifer Contributing Zone and drains to Onion Creek. In efforts to address the site's lack of TCEQ regulated compliance, the proposed development will include construction of a batch detention pond that will treat the pollutant runoff currently emanating from this site.

Offsite Areas

A total of 10.1 acres of upstream offsite runoff will be captured by the proposed BMP, no impervious cover exists within these areas.

Impervious Cover

TCEQ performed a Comprehensive Compliance Investigation (Inv. No. 1896149) on May 2, 2023 to identify any areas of impervious cover failing to properly comply with treatment regulations. It was determined that in previous operational conditions (pre-1999), the site contained 7.1 acres of impervious cover. After TCEQ's site investigation, GIS analysis indicated another 11.1 acres of impervious cover were added during unregulated construction activities conducted post-1999.

Per the CCI investigation, a total of 18.2 acres of impervious cover exists on-site; this impervious cover is comprised of production areas, offices, parking areas, sidewalks and drives, and material storage areas. Aerials and descriptions of the impervious areas found in the TCEQ CCI are attached below.

Permanent BMPs

The site's 18.2 acres of impervious cover yield a 49.46% total impervious cover percentage. Only the 11.1 acres of impervious cover constructed post-1999 will need to be accounted for in treatment considerations. To properly treat this runoff pollution, a proposed Batch Detention Pond will serve as this site's permanent BMP; all associated calculations, locations, sizing, and standard detail specifications can be found in the attached site plan.

The 11.1 acres of impervious cover requiring treatment dictate a TSS removal of 11,209 pounds, assuming the City of Dripping Springs 90% removal performance requirement (Code of Ordinances, Chapter 22 § 22.05.015). Pollutant runoff will be captured via proposed storm improvements, directed to the batch detention pond for treatment, and will outfall offsite such that existing drainage patterns are not adversely affected. The proposed improvements provide the full 11,209-pound TSS load removal via treatment by the batch detention pond.

In total, 7.4 acres of the overall 36.8-acre tract will be disturbed by regulated activities (equipment routing, grading, and storm sewer installation) and will be accounted for through proposed erosion control measures (silt fence, stabilized construction entrance, inlet protection, etc.).

Proposed Site Use

The site will continue to be operated by Patriot Erectors LLC for steel fabrication and erection services. Excluding the construction of the Batch Detention Pond and storm improvements, no new development or site usage is proposed for this site.

Site History

The site was said to have historically been developed as an arena for ranchers. Patriot Erectors LLC assumed control of the property circa 2007.

A prior stormwater investigation (Inv. No. 1322184) conducted at Patriot Erectors on March 24, 2016, cited Patriot Erectors with failure to demonstrate that the company had obtained coverage under the TPDES MSGP as required. As a result of the filed action, coverage was obtained on April 25, 2018, but permit records indicate that coverage had expired on November 12, 2021. No renewal is indicated. A review of Edwards records indicates that no EAPP actions have ever been approved for the site.

The site is located within the Edward's Aquifer Contributing Zone. No proposed development is located within the FEMA 100-yr Floodplain in accordance with Flood Insurance Rate Map (FIRM) Panel No. 48491C0235F, effective date December 20, 2019.

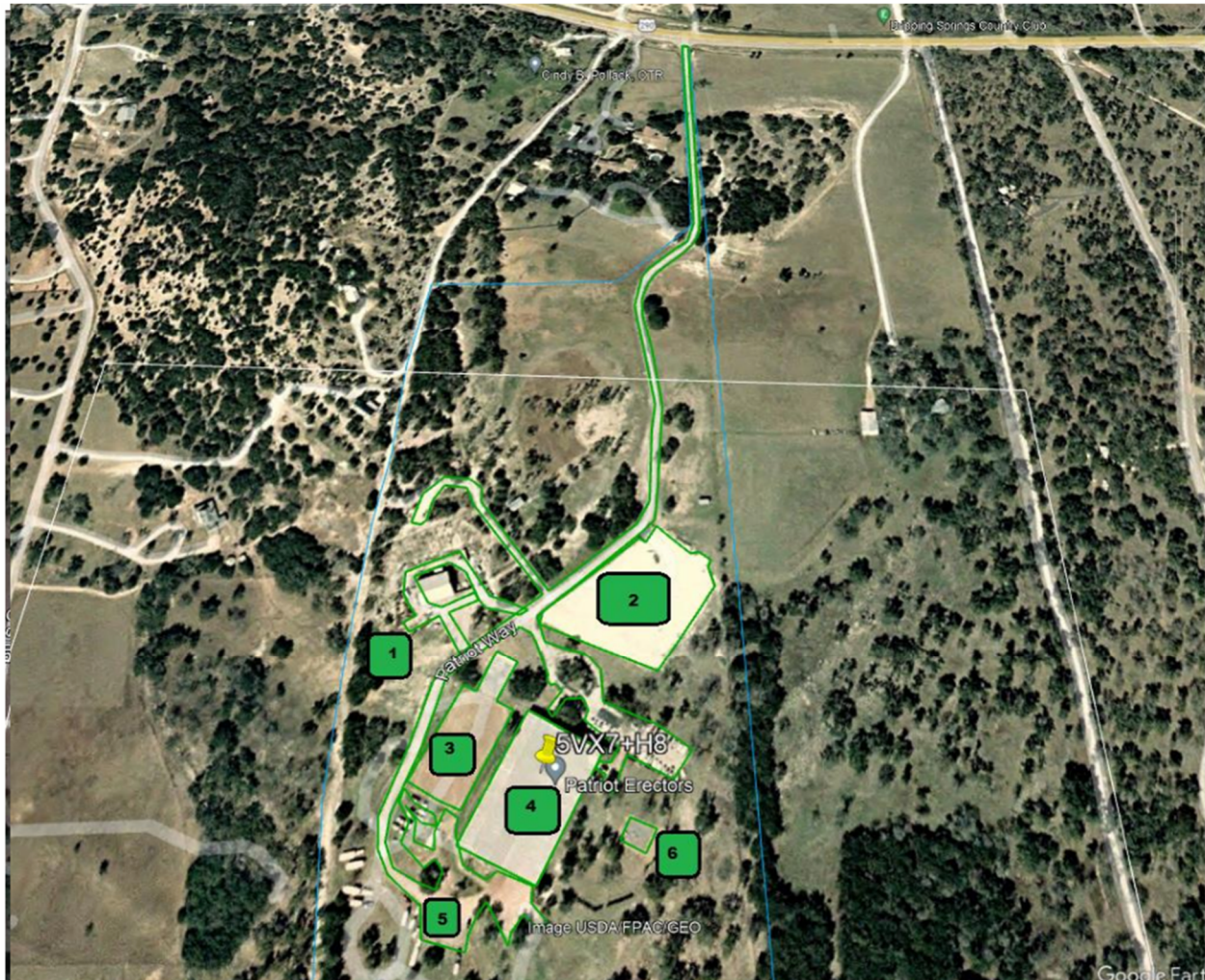
Previous Development

As described previously, relatively recent construction was observed within the subject property without proper approvals. Previously developed structures include production areas, offices, parking areas, sidewalks and drives, and material storage areas.

Areas to Be Demolished

No existing structures will need to be demolished to construct the proposed Batch Detention Pond or associated storm improvements, the areas with proposed disturbance will only occur on undeveloped portions of the tract. Locations and descriptions of trees necessitating removal for construction of the proposed improvements are included in the erosion control sheets within the attached site plan.

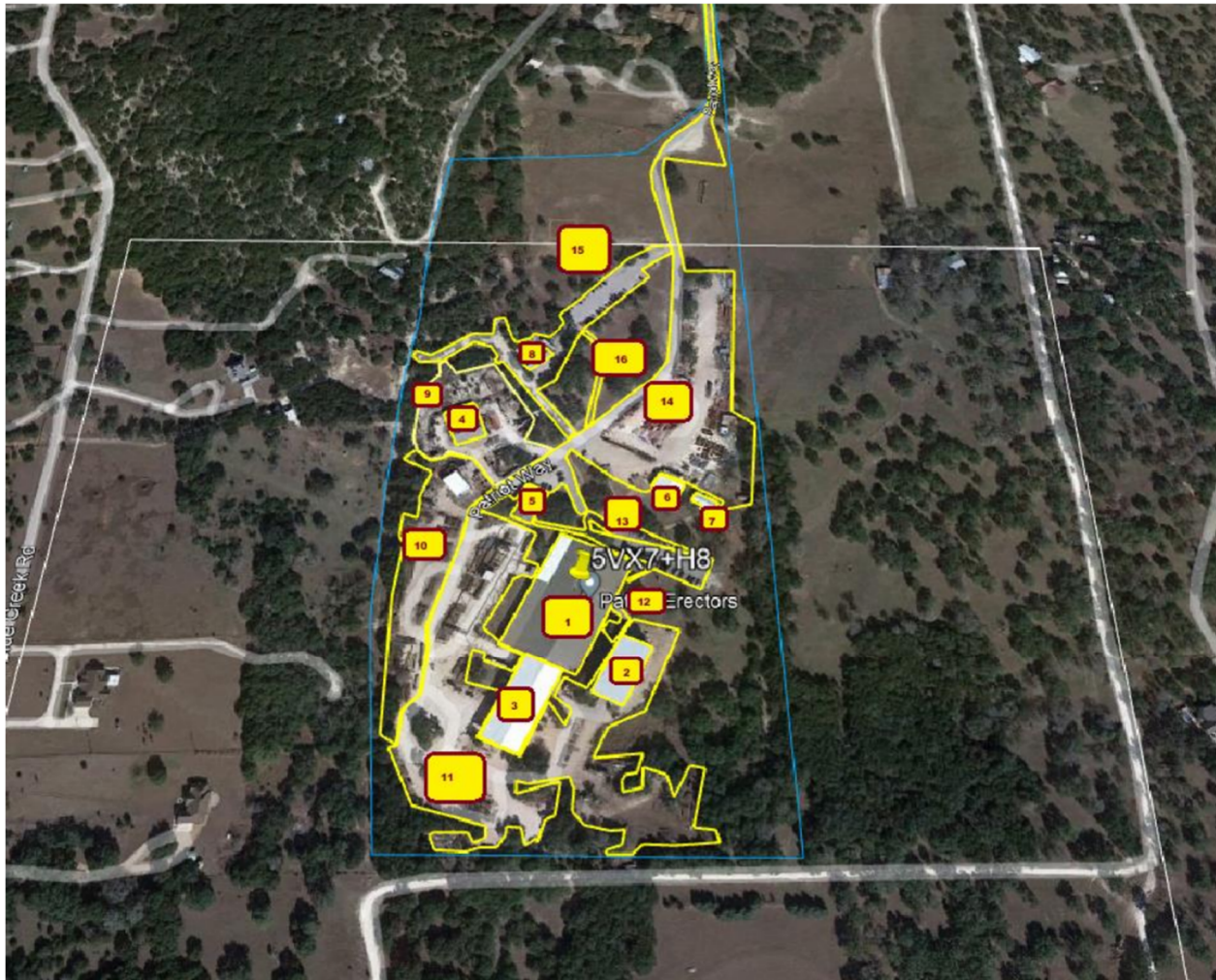
IMPERVIOUS COVER AERIAL PRE-1999



Impervious areas include:

- Roads
- Paths
- Production Areas
- Parking Lots
- Commercial Buildings

IMPERVIOUS COVER AERIAL POST-1999



Impervious areas include:

- Additional Roads
- Additional Paths
- New/Expanded Production Areas
- Parking Lots
- New/Expanded Commercial Buildings
- Material Storage Spaces
- Cargo

Attachment D – Factors Affecting Surface Water Quality

Multiple factors have the potential of affecting surface water quality during construction. These include: oil, grease, gas, transmission fluids, and/or other vehicular fluids, as well as shifts in sediment that will occur during excavation and fill operations. Upon completion of construction, normal traffic on the site could be responsible for many of these same pollutants, as well as everyday activities, such as car washing and lawn watering.

Attachment E – Volume and Character of Stormwater

A majority of the runoff from the Patriot Erectors site drains to an on-site BMP where it will be treated via a Batch Detention Pond. Small portions of runoff will bypass treatment and discharge to Onion Creek. The total on-site drainage area accounted for by the BMP is 36.8 acres with 11.1 acres of impervious cover. These areas are conveyed to a proposed batch detention pond via proposed storm system improvements. Outfall drainage from the BMP have been designed such that existing drainage patterns are not adversely impacted. The overall proposed drainage area map and associated calculations are included in the site plan included with this submittal.

Attachment F – Suitability Letter from Authorized Agent

Not applicable to this project.

Attachment G – Alternative Secondary Containment Methods

Not applicable to this project.

Attachment H – AST Containment Structure Drawings

Not applicable to this project.

Attachment I – 20% or Less Impervious Cover Declaration

Not applicable to this project.

Attachment J – BMPs for Upgradient Stormwater

Upgradient stormwater can be characterized as runoff flowing from adjacent properties which contain either no impervious cover or are being treated by existing BMPs. The upgradient stormwater is being conveyed across the site through proposed storm sewer structures and discharging into Onion Creek.

Attachment K – BMPs for On-Site Stormwater

On-site stormwater will be treated by one (1) BMP in the form of a Batch Detention Pond. The Batch Detention Pond proposed within this plan accounts for all proposed impervious cover on the site. The location and calculations for this BMP can be seen in the attached construction plans for reference.

Attachment L – BMPs for Surface Streams

No BMPs are proposed specifically for surface streams. Proposed drainage systems are designed to maintain existing flow patterns.

Attachment M – Construction Plans

Sheets detailing proposed storm improvements, erosion controls, and all associated calculations are included in the attached construction plans.

Attachment N – Inspection, Maintenance, Repair, and Retrofit Plan

Batch Detention Pond:

Inspections should occur at least twice a year. If possible, these inspections should be conducted during wet weather to determine if the pond is meeting target detention times. Inspections should check for clogging of the primary outfall mechanism, as well as erosion problems in the upper stage pilot channel, all flow paths, and any erodible areas inside and downstream of the basin. If any slumping or erosion is discovered, immediate regrading or revegetation should be performed to correct the problems. Structural faults discovered during inspection should be identified and repaired immediately. Faults to check for include cracked concrete, sealing of voids, and removal of vegetation from cracks and joints. All inlet/outlet and riser pipes will eventually deteriorate and require replacement.

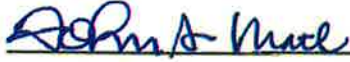
The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. At the time of mowing, litter and debris should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed. Additionally at this time, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

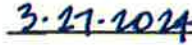
Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

Responsible Party: John Matl, General Manager – Patriot Erectors LLC
Mailing Address: 30236 Highway 290 West
City, State, Zip: Dripping Springs, TX 78620
Telephone: (512) 829-8699

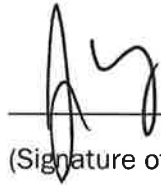


(Signature of Responsible Party)

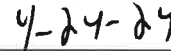


(Date)

Agent/Engineer: Joseph A. Yaklin, P.E. – BGE, Inc.
Mailing Address: 101 W Louis Henna Blvd, Suite 400
City, state, Zip: Austin, Texas 78728
Telephone: (832) 592-2734



(Signature of Agent/Engineer)



(Date)

Attachment O – Pilot-Scale Field Testing Plan

Not applicable to this project.

Attachment P – Measures for Minimizing Surface Stream Contamination

The site will be stabilized using silt fence; all of the stabilization will be installed prior to construction and will be removed after construction has been completed. These methods will minimize any increases in erosion caused by construction activities.

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: Joseph A. Yaklin, P.E.

Date: 4-24-24

Signature of Customer/Agent:



Regulated Entity Name: Patriot Erectors

Project Information

Potential Sources of Contamination

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

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

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

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

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

- ☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- ☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- ☒ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. ☒ **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Onion 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 Action

No spills of hydrocarbons or hazardous substances are expected. However, in the event that such an incidence does occur, the contractor should carefully follow the following TCEQ guidelines:

Cleanup:

1. Clean up leaks and spill 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.

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:
 - Contain the spread of the spill.
 - Recover spilled materials.
 - Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills:

Semi-significant spills can still 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, using the following practices:

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 highly toxic materials, the Reportable Quantity (RQ) > 25 gallons. For petroleum/hydrocarbon liquids, RQ > 250 gallons (on land) or any amount which creates a “sheen” on water. Only certified Haz-Mat teams will be responsible for handling the material at the site.

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. Additionally, in the event of a hazardous material spill, local Williamson County and/or city of Liberty Hill police, fire, and potentially EMS should be contacted in order to initiate the hazardous material response team.
2. For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110, 191, 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 of which one copy is to be kept on-site in the report binder and one copy is to be provided to the TCEQ.
4. The services of a spill 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 Sherriff’s Office, Fire Department, etc.

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

Attachment B – Potential Sources of Contamination

No particular activity or process during construction of the project is anticipated to present a significant risk of being a potential source of contamination. However, during regular construction operations, several common and minor risks of contamination are anticipated. Should any unforeseen mishaps occur during construction, the contractor shall follow the guidelines set forth in “Attachment A – Spill Response Plan”.

Potential sources of sediment to stormwater runoff:

- Clearing and grubbing
- Grading and excavation
- Vehicle tracking
- Topsoil stripping and stockpiling
- Landscaping

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Combined Staging Area – small fueling, minor equipment maintenance, sanitary facility.
- Materials Storage Area – solvents, adhesives, paving materials, aggregates, trash, etc.
- Construction Activities – grading, storm sewer installation,

Potential on-site pollutants:

- Fertilizer
- Concrete, asphalt
- Glue, adhesives
- Gasoline, diesel fuel, hydraulic fluids, antifreeze
- Sanitary toilets

Attachment C – Sequence of Major Activities

1. Temporary erosion and sedimentation controls are to be installed as indicated on the approved subdivision construction plans and in accordance with the stormwater pollution prevention plan (SWPPP) that is required to be posted on the site. Install tree protection and initiate tree mitigation measures.
2. The environmental project manager, and/or site supervisor, and/or designated responsible party, and the general contractor will follow the storm water pollution prevention plan (SWPPP) posted on the site. Temporary erosion and sedimentation controls will be revised, if needed, to comply with city inspectors' directives, and revised construction schedule relative to the water quality plan requirements and the erosion and sedimentation plan.
3. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the storm water pollution prevention plan (SWPPP) posted on the site.
4. A sequence of major construction activities, as well as an estimated area of disturbance for each, is listed below:
 - I. Clearing and grubbing – 2.05 acres
 - II. Excavation for storm sewer system – 1.08 acres
 - III. Construction of storm sewer system – 1.08 acres
 - IV. Re-vegetation – 2.05 acres
5. Upon completion of construction and re-vegetation, the design engineer shall submit an engineer's letter of concurrence to the City of Dripping Springs indicating that construction, including re-vegetation, is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate city inspector.
6. After construction is complete and all disturbed areas have been re-vegetated per plan to at least 90 percent established, remove the temporary erosion and sedimentation controls and complete any necessary final re-vegetation resulting from removal of the controls. Conduct any maintenance and rehabilitation of the permanent BMPs.

Attachment D – Temporary Best Management Practices and Measures

Prior to the commencement of any construction activity, the contractor shall install silt fence, and construction entrances, per the Erosion and Sedimentation Control Plan. Once inlets are installed, inlet protections shall too be installed. All temporary BMPs are to be installed per TCEQ and local requirements.

As surface water flows from and through disturbed areas, the proposed temporary BMPs will prevent pollution by filtering the increased sediment loads and other pollutant sources (listed in “Attachment B – Potential Sources of Contamination”) prior to any runoff leaving the site. As shown in the attached construction plan, silt fence will be utilized downstream of any grading and construction activities to remove debris and sediment from run-off in the area (activities here will primarily involve road grading and storm sewer excavation). Inlet protection will prevent sediment laden runoff from entering the storm sewer system during construction. Concrete washout basins will contain pollutants discharged when concrete trucks are washed out, and stabilized construction entrances will prevent the transport of sediment off-site.

In using the aforementioned treatment methods and maintaining natural drainage patterns downgradient of the proposed site, any flow to naturally occurring sensitive features, both known and unknown, will be maintained.

Attachment E – Request to Temporarily Seal a Feature

Not applicable to this project.

Attachment F – Structural Practices

The following temporary BMP structural practices will be employed on the site:

- A. Silt Fence – Used for sediment filtration along the downslope perimeter of portions of the project, as well as to prevent runoff from storage of excavated materials during utility construction. The fence retains sediment primarily by retarding flow and promoting deposition of sediment on the uphill side of the slope. Runoff is filtered as it passes through the geotextile.
- B. Inlet Protection – To be provided around all proposed storm sewer inlets during construction. Locations are indicated on attached site plan. The measures will trap and settle out sediment and debris prior to runoff entering the proposed storm sewer system.
- C. Construction Entrance – Stone pads will be constructed at entrances and exits to the project to prevent off-site transport of sediment by construction vehicles. The pads are a minimum of 50' long and 8" deep. They will be graded to prevent runoff from leaving the site.

Attachment G – Drainage Area Map

Drainage area maps and associated calculations are shown in the attached construction plans.

Attachment H – Temporary Sediment Pond(s) Plans and Calculations

Not applicable to this project.

Attachment I – Inspection and Maintenance for BMPs

The inspection and maintenance of temporary BMPs will be made according to TCEQ RG-348, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices.

Inspection Personnel:

Inspections shall be conducted by qualified representatives of the contractor acting on behalf of the owner or a designated party, if hired separately by the owner. Each operator must delegate authority to the specifically described position or person performing inspections, as provided by 30 TAC 305.128, as an authorized person for signing reports and performing certain activities requested by the director or required by the TPDES general permit. This delegation of authority must be provided to the director of TCEQ in writing and a copy shall be kept along with the signed effective copy of the SWPPP.

Inspection Schedule & Procedures:

An inspection shall occur weekly and after any rain event.

The authorized party shall inspect all disturbed areas of the site, areas used for storage of materials that exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site.

Disturbed areas and areas used for storage of materials that are exposed to precipitation or within limits of the 1% annual chance (100 year) floodplain must be inspected for evidence of, or the potential for, pollutants entering the runoff from the site. Erosion and sediment control measures identified in the plan must be observed to ensure that they are operating correctly. Observations can be made during wet or dry weather conditions. Where discharge locations or points are accessible, they must be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. This can be done by inspecting receiving waters to see where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.

Based on the results of the inspection, the site description and the pollution prevention measures identified in the plan must be revised as soon as possible after an inspection that reveals inadequacies. The inspection and plan review process must provide for timely implementation of any changes to the plan within 7 calendar days of the inspection.

An inspection report shall be completed, which summarizes the scope of the inspection, name(s) and qualifications of personnel conducting the inspection, the date(s) of the inspection, and major observations relating to the implementation of the SWPPP. Major observations shall include, as a minimum, location of discharges of sediment or other pollutants from the site, location of BMPs that need to be maintained, location of BMPs that failed to operate as designed or proved inadequate for a particular location, and locations where BMPs are needed.

Actions taken as a result of the inspections must be described within, and retained as a part of, the SWPPP. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWPPP and the TPDES general permit. The report must be signed by the authorized representative delegated by the operators in accordance with TAC 305.128.

Inspection & Maintenance Guidelines for Temporary Sediment Control BMPs:

A. Temporary Construction Entrance:

The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.

All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.

When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.

When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.

All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

B. Silt Fence:

Inspect all fencing weekly, and after any rainfall.

Remove sediment when buildup reaches 6 inches.

Replace any torn fabric or install a second line of fencing parallel to the torn section.

Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.

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

Maintenance and Corrective Actions:

Maintenance of erosion control facilities shall consist of the minimum requirements as follows:

- A. In ongoing construction areas inspect erosion control improvements to confirm facilities are in place and operable. Where facilities have been temporarily set aside or damaged due to construction activity, place facilities in service before leaving job site.
- B. If weather forecast predicts possibility of rain, check entire facilities throughout site to ensure that they are in place and operable. If job site weather conditions indicate high probability of rain, make special inspection of erosion control facilities.
- C. After rainfall events, review erosion control facilities as soon as site is accessible. Clean rock berms, construction entrances, and other structural facilities. Determine where additional facilities or alternative techniques are needed to control sediment leaving site.
- D. After portions of site have been seeded, review these areas on regular basis in accordance with project specifications to assure proper watering until grass is established. Re-seed areas where grass is not well-established.
- E. Spills are to be handled as specified by the manufacturer of the product in a timely and safe manner by qualified personnel. The site superintendent will be responsible for coordinating spill prevention and cleanup operations.
- F. Concrete trucks will discharge extra concrete or wash out drum only at an approved location on site. Residual product shall be properly disposed of.
- G. Inspect vehicle entrance and exits for evidence of off-site tracking and correct as needed.
- H. Remove sediment from traps/ponds no later than when the design capacity has been reduced by 50%.
- I. If sediment escapes the site, the contractor, where feasible and where access is available, shall collect and remove sedimentation material by appropriate non-damaging methods. Additionally, the contractor shall correct the condition causing discharges.
- J. If inspections or other information sources reveal a control has been used incorrectly, or that control is performing inadequately, the contractor must replace, correct, or modify the control as soon as practical after discovery of the deficiency.

Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Silt fence will be used during the period of construction near the perimeter of the disturbed area to intercept sediment while allowing water to percolate through. Silt fencing will be installed prior to any site clearing. This silt fence will remain in place until the disturbed area is permanently stabilized. Tree protection fencing will be installed around all protected trees. A stabilized pad of crushed stone will be placed at the point where traffic will be entering and leaving the construction site to eliminate the tracking or flowing of sediment onto public rights-of-way. Once all site grading activities and landscaping plantings have been completed, all disturbed areas and exposed soil will be revegetated as needed. All controls will remain in place until the revegetated areas are permanently stabilized.

Should construction activities be interrupted for a period of at least 4 weeks of non-activity, Contractor shall revegetate all disturbed areas as required for permanent revegetation. Contractor shall keep all temporary BMPs in place until the disturbed areas become permanently stabilized.

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

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

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

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

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

I _____ John Matl _____,
Print Name

General Manager
Title - Owner/President/Other
of _____
Patriot Erectors LLC
Corporation/Partnership/Entity Name
have authorized _____
Joseph A. Yaklin, P.E
Print Name of Agent/Engineer
of _____
BGE 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:

John A. Matl

Applicant's Signature

3.27.2024

Date

THE STATE OF Texas §

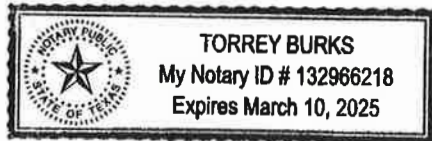
County of Hays §

BEFORE ME, the undersigned authority, on this day personally appeared John Matl 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 27th day of March, 2024

Torrey Burks

NOTARY PUBLIC



Torrey Burks

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 3/10/2025

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Patriot Erectors

Regulated Entity Location: 3023 West Highway 290, Dripping Springs, TX 78620

Name of Customer: Patriot Erectors LLC

Contact Person: John Matl

Phone: (512) 829-8699

Customer Reference Number (if issued): CN 606153120

Regulated Entity Reference Number (if issued): RN 101249258

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

☐ San Antonio Regional Office

☒ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

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	36.8 Acres	\$ 6,500.00
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: _____



Date: 7-27-24

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

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

<i>Project</i>	<i>Fee</i>
Exception Request	\$500

Extension of Time Requests

<i>Project</i>	<i>Fee</i>
Extension of Time Request	\$150



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 606153120		RN 101249258

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		06/21/2023	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information		<input type="checkbox"/> Change in Regulated Entity Ownership	
<input type="checkbox"/> 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)				<i>If new Customer, enter previous Customer below:</i>	
Patriot Erectors LLC					
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:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
				Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:					
15. Mailing Address:					
City		State		ZIP	ZIP + 4
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				matlj@patrioterectors.com	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	
(512) 829-8699				() -	

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)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> 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.)	
Patriot Erectors	

23. Street Address of the Regulated Entity: (No PO Boxes)	3023 West Highway 290							
	City	Dripping Springs	State	TX	ZIP	78620	ZIP + 4	5298
24. County	Hays							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:								
26. Nearest City	State					Nearest ZIP Code		
27. Latitude (N) In Decimal:	30.700982				28. Longitude (W) In Decimal:			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
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)			
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
34. Mailing Address:								
	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.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input checked="" type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Joseph A. Yaklin, P.E.	41. Title:	Director, Land Development
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(832) 592-2734		() -	JYaklin@bgeinc.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:	BGE Inc.	Job Title:	Director, Land Development
Name (In Print):	Joseph A. Yaklin, P.E.	Phone:	(832) 592- 2734

Signature:

A handwritten signature in black ink, appearing to be 'AS' or similar, written over a horizontal line.

Date:

7-27-27

SUMMARY NOTES

OWNER: PATRIOT ERECTORS LLC
3023 WEST HIGHWAY 290
DRIPPING SPRINGS, TX 78620
(512) 829-8699

ENGINEER/AGENT: BGE INC
101 WEST LOUIS HENNA BLVD, SUITE 400
AUSTIN, TX 78728
TBPE #1046
(512) 879-0400

LEGAL DESCRIPTION:

A0222 BENJAMIN F HANNA SURVEY, ACRES 36.805
ZONING: N/A ETJ

BENCHMARK

REVIEWED FOR COMPLIANCE WITH COUNTY REQUIREMENTS

HAYS COUNTY DATE

CITY OF DRIPPING SPRINGS
DEVELOPMENT PERMIT # DATE

NOTES: REVIEW OF THE PLANS BY THE DISTRICT IS LIMITED TO WATER QUALITY AND DRAINAGE, AND DOES NOT INDICATE A REVIEW OF THE ADEQUACY OF THE DESIGN FOR THE FACILITIES. IN APPROVING THESE PLANS, THE DISTRICT MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

- NOTES:
- THIS PROJECT LIES ENTIRELY WITHIN THE EXTRA-TERRITORIAL JURISDICTION OF THE CITY OF DRIPPING SPRINGS.
 - THIS PROJECT IS LOCATED WITHIN THE HAYS TRINITY GROUNDWATER CONSERVATION DISTRICT.
 - THIS PROJECT IS LOCATED WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE.
 - THIS PROJECT IS LOCATED WITHIN THE ONION CREEK-COLORADO RIVER WATERSHED.
 - NO PORTION OF THIS PLAN IS ENCROACHED BY SPECIAL FLOOD HAZARD AREAS INUNDATED BY THE 1% ANNUAL CHANCE FLOOD AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP (FLOOD INSURANCE RATE MAP) COMMUNITY PANEL NUMBERS 48209C0085F, EFFECTIVE DATE SEPTEMBER 1, 2005 FOR HAYS COUNTY TEXAS.
 - ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY MUST RELY UPON THE ADEQUACY OF WORK OF THE DESIGN ENGINEER.
 - A WATER QUALITY BMP MAINTENANCE PLAN HAS BEEN PREPARED FOR THIS DEVELOPMENT AND IS RECORDED IN DOCUMENT # , PUBLIC RECORDS OF HAYS COUNTY, TEXAS.
 - PATRIOT ERECTORS LLC WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF STORMWATER UTILITIES AND PONDS.

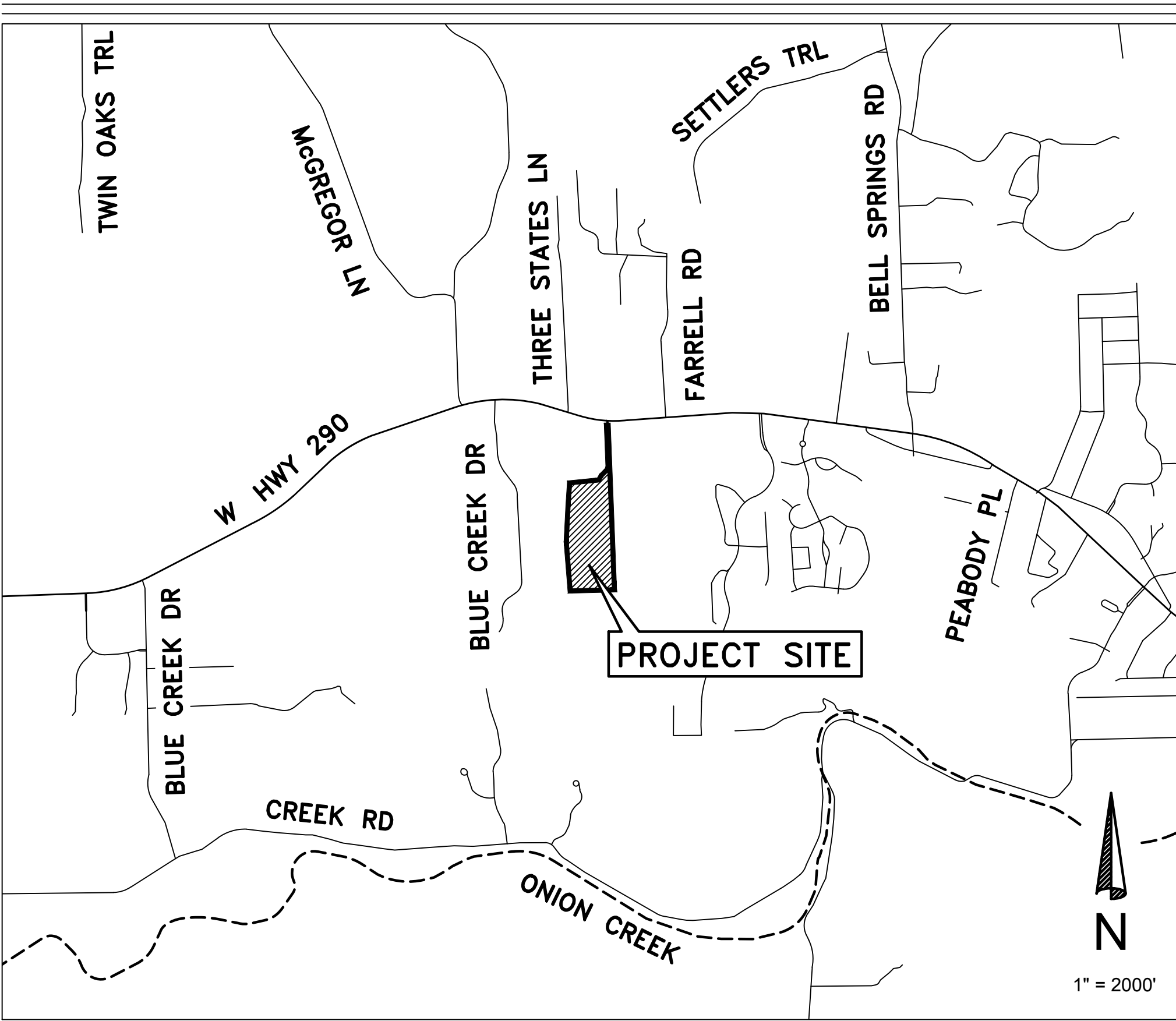
CONSTRUCTION PLANS FOR
PATRIOT ERECTORS
CZP AND POND DESIGN
HAYS COUNTY, TEXAS

APRIL 2024

Sheet List Table

Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES
3	BOUNDARY SURVEY (1 OF 3)
4	BOUNDARY SURVEY (2 OF 3)
5	EXISTING CONDITIONS
6	PROPOSED DRAINAGE AREA MAP
7	BATCH DETENTION POND
8	BATCH DETENTION POND DETAILS
9	STORM SEWER LINE A
10	STORM CHANNEL (1 OF 2)
11	STORM CHANNEL (2 OF 2)
12	EROSION CONTROL PLAN
13	TREE LIST
14	STORM SEWER DETAILS
15	EROSION CONTROL DETAILS

VICINITY MAP



REVISIONS/CORRECTIONS

SHEET LIST	DESCRIPTION	DATE	REVISE (R) ADD (A) VOID (V) SHEET NO.'S	ACCEPTED BY	APPROVAL DATE

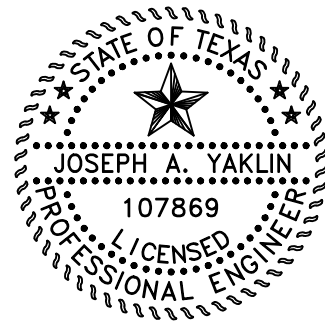


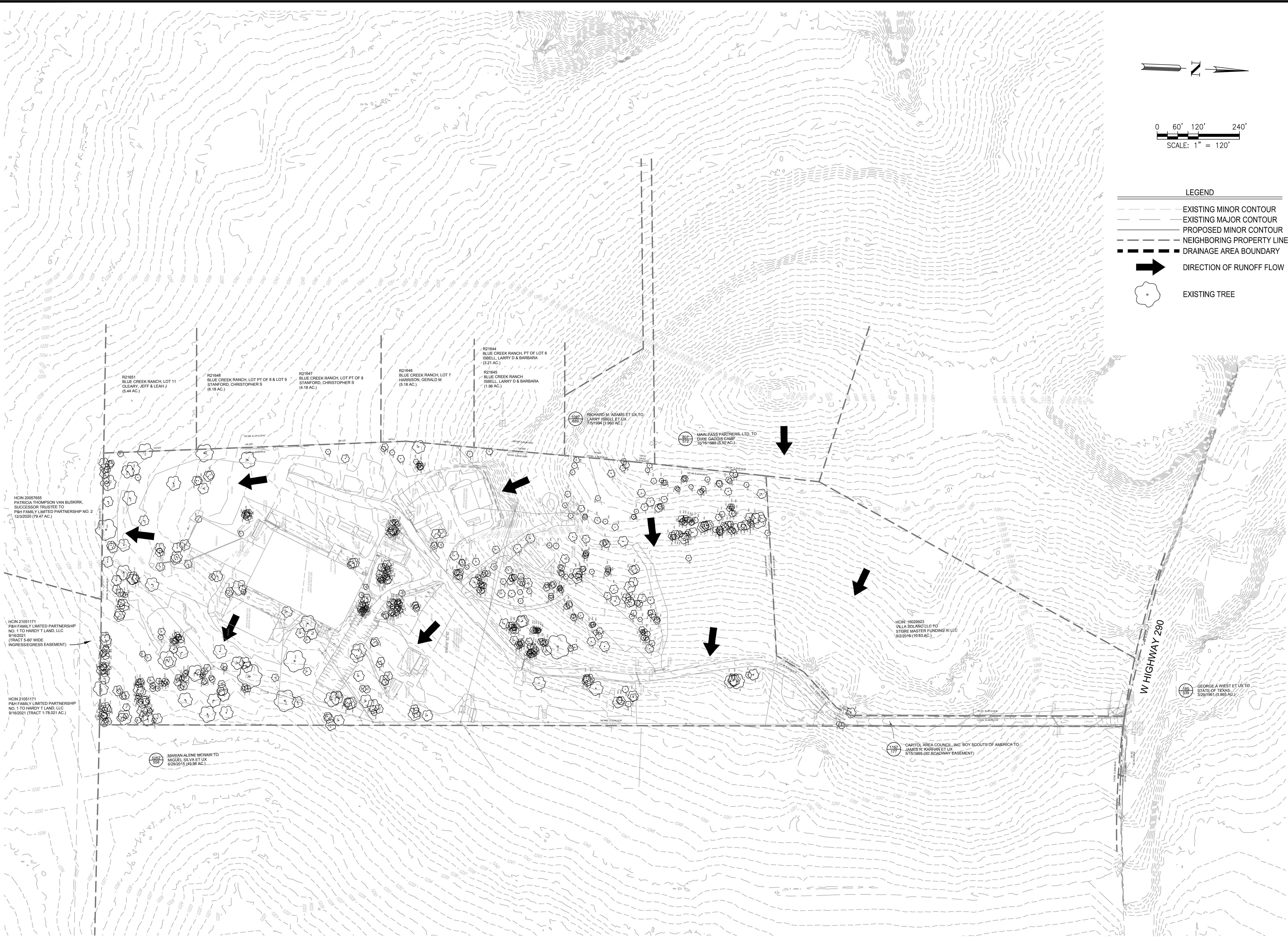
BGE, Inc.
101 WEST LOUIS HENNA BLVD, Suite 400
Austin, TX 78728
Tel: 512-879-0400 • www.browngay.com
TBPE Registration No. F-1046

SUBMITTED BY

JOSEPH A. YAKLIN, P.E.

04/24/2024
DATE





DATE	REV	DESCRIPTION
APR		

DESIGNED BY:

REVIEWED BY:

DRAWN BY:

PATRIOT ERECTORS
CITY OF DRIPPING SPRINGS, TEXAS
EXISTING CONDITIONS

BCE INC.
101 W. LOUIS BERNAL BLVD, SUITE 400
AUSTIN, TX 78728
TEL: 512-875-0400 • www.bceinc.com
TBP# Registration No. F-1946

04/24/2024
JOSEPH A. YAKLIN
107869
REGISTERED ENGINEER

5 OF 15

G:\TXC\Projects\Patriot_Erectors\000 12939-00-Patriot_Erectors_CZP_and_Pond_Design\LD\01_CADD\01_Shts\12939-00-C-DAM.dwg Layout: PROPOSED DRAINAGE AREA MAP Plotted: 4/25/2024 11:46:33 AM

WORKSHEET FOR SCS HYDROLOGIC PARAMETERS

Site Conditions:	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Proposed	Project: Patriot Erectors Pond & CZP Subarea Number: DA-1
Off-Site Land Use:	<input type="checkbox"/> Existing <input type="checkbox"/> Proposed	By: DAH Date: 03/28/2024

RUNOFF CURVE NUMBER

Soil Group	Land Use or Zoning	Area (acres)	RCN	RCN x Area
	Impervious Cover	4.95	98	485.1
D	Open space (good condition)	24.29	80	1943.2

Total Area 29.24 ac 0.0457 sq. mi Weighted RCN = 83.0

TIME OF CONCENTRATION

ID	Type of Flow	n	Length (ft)	Slope (ft/ft)	Area (sf)	Wet P (ft)	Velocity (fps)	Tt (min)
Sheet Flow (P ₂ = 3.44 in.)								
A	Dense grass	0.24	92	0.02	$T_t = \frac{0.42 (nL)^{0.8}}{(P_2)^{0.5} S^{0.4}}$			12.88
Shallow Concentrated Flow								
B	Unpaved		1560	0.02	$T_t = \frac{L}{60 \cdot 16 \cdot 1345 \cdot S^{0.5}}$ (unpaved) $T_t = \frac{L}{60 \cdot 20 \cdot 3282 \cdot S^{0.5}}$ (paved)			11.39
Channel Flow								Tt=Σ(L/60V)
C	Channel Flow		1724	0.020			6	4.79
Total T _c								29.06
Total T _t								17.44

WORKSHEET FOR SCS HYDROLOGIC PARAMETERS

Site Conditions:	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Proposed	Project: Patriot Erectors Pond & CZP Subarea Number: DA-2
Off-Site Land Use:	<input type="checkbox"/> Existing <input type="checkbox"/> Proposed	By: DAH Date: 03/28/2024

RUNOFF CURVE NUMBER

Soil Group	Land Use or Zoning	Area (acres)	RCN	RCN x Area
	Impervious Cover	0.49	98	48.02
D	Open space (good condition)	1.45	80	116

Total Area 1.94 ac 0.0030 sq. mi Weighted RCN = 84.5

TIME OF CONCENTRATION

ID	Type of Flow	n	Length (ft)	Slope (ft/ft)	Area (sf)	Wet P (ft)	Velocity (fps)	Tt (min)
Sheet Flow (P ₂ = 3.44 in.)								
A	Dense grass	0.24	100	0.02	$T_t = \frac{0.42 (nL)^{0.8}}{(P_2)^{0.5} S^{0.4}}$			13.76
Shallow Concentrated Flow								
B	Unpaved		780	0.02	$T_{t_1} = \frac{L}{60 \cdot 16 \cdot 1345 \cdot S^{0.5}}$ (unpaved) $T_{t_2} = \frac{L}{60 \cdot 20 \cdot 3282 \cdot S^{0.5}}$ (paved)			5.70
Channel Flow								
	Pipe Flow							Tt=Σ(L/60V)
	Channel Flow							
Total T _c								19.46
Total T _t								11.68

WORKSHEET FOR SCS HYDROLOGIC PARAMETERS

Site Conditions:	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Proposed	Project: Patriot Erectors Pond & CZP Subarea Number: DA-3
Off-Site Land Use:	<input type="checkbox"/> Existing <input type="checkbox"/> Proposed	By: DAH Date: 03/28/2024

RUNOFF CURVE NUMBER

Soil Group	Land Use or Zoning	Area (acres)	RCN	RCN x Area
	Impervious Cover	3.50	98	343
D	Open space (good condition)	3.03	80	242.4

Total Area 6.53 ac 0.0102 sq. mi Weighted RCN = 89.6

TIME OF CONCENTRATION

ID	Type of Flow	n	Length (ft)	Slope (ft/ft)	Area (sf)	Wet P (ft)	Velocity (fps)	Tt (min)
Sheet Flow (P ₂ = 3.44 in.)								
A	Dense grass	0.24	28	0.02	$T_t = \frac{0.42 (nL)^{0.8}}{(P_2)^{0.5} S^{0.4}}$			4.97
Shallow Concentrated Flow								
B	Unpaved		574	0.02	$T_t = \frac{L}{60 \cdot 16 \cdot 1345 \cdot S^{0.5}}$ (unpaved) $T_t = \frac{L}{60 \cdot 20 \cdot 3282 \cdot S^{0.5}}$ (paved)			4.19
Channel Flow								
C	Pipe Flow		570	0.020			12	Tt=Σ(L/60V) 0.79
Total T _c								9.96
Total T _t								5.97

WORKSHEET FOR SCS HYDROLOGIC PARAMETERS

Site Conditions:	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Proposed	Project: Northgate Ranch Phase 3 Sections 11-13 Subarea Number: OFFSITE
Off-Site Land Use:	<input type="checkbox"/> Existing <input type="checkbox"/> Proposed	By: DAH Date: 03/07/2022

RUNOFF CURVE NUMBER

Soil Group	Land Use or Zoning	Area (acres)	RCN	RCN x Area
	Impervious Cover	2.16	98	211.68
D	Open space (good condition)	7.03	84	590.52

Total Area 9.19 ac 0.0144 sq. mi Weighted RCN = 87.3

TIME OF CONCENTRATION

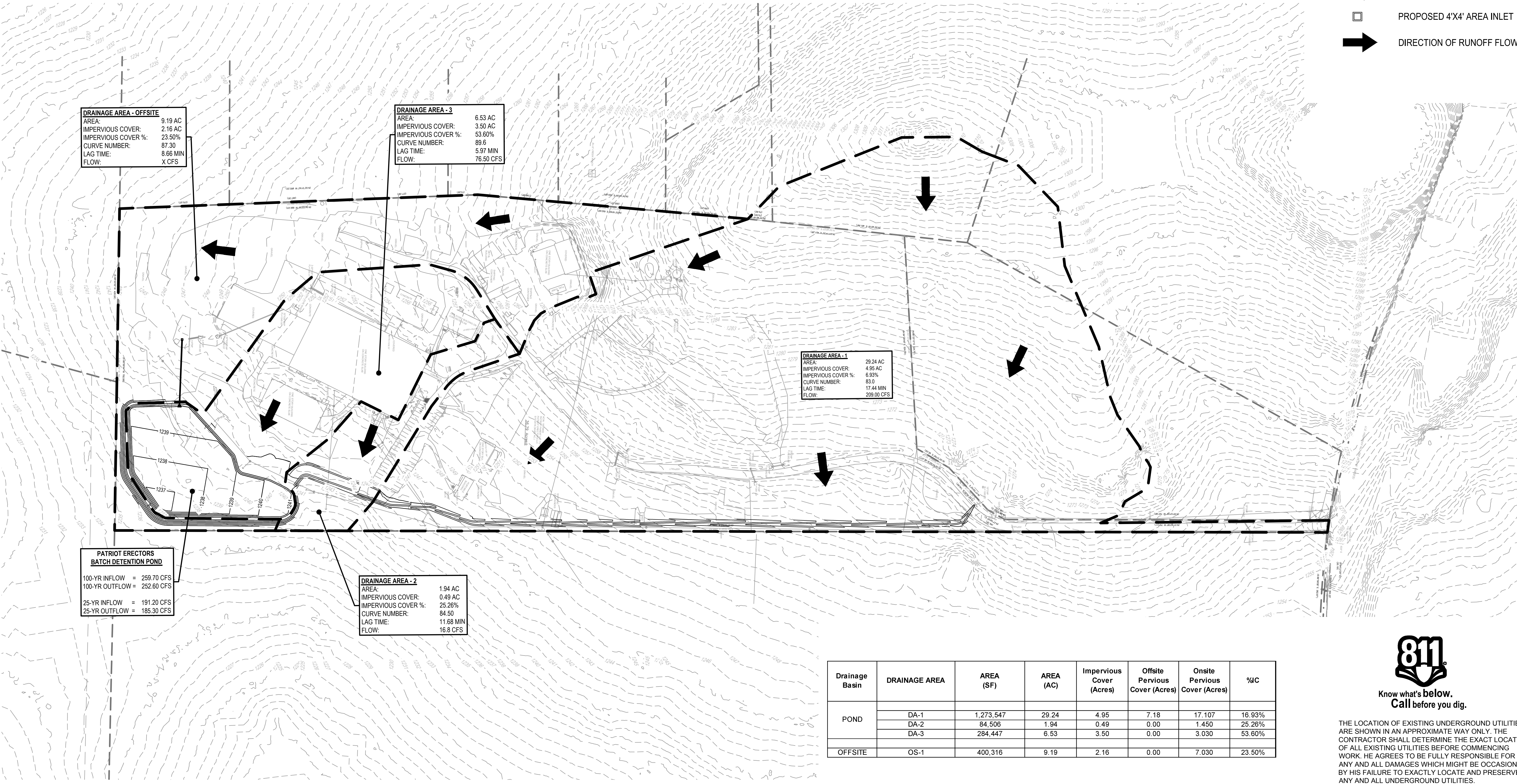
ID	Type of Flow	n	Length (ft)	Slope (ft/ft)	Area (sf)	Wet P (ft)	Velocity (fps)	Tt (min)
Sheet Flow (P ₂ = 3.44 in.)								
A	Dense grass	0.24	100	0.02	$T_{tr} = \frac{0.42 (nL)^{0.8}}{(P_2)^{0.5} S^{0.4}}$			13.76
Shallow Concentrated Flow								
B	Unpaved		91	0.02	$T_{tr} = \frac{L}{60 \cdot 16 \cdot 1345 \cdot S^{0.5}}$ (unpaved) $T_{tr} = \frac{L}{60 \cdot 20 \cdot 3282 \cdot S^{0.5}}$ (paved)			0.66
C	Paved		158	0.05				
Channel Flow								
D	Pipe Flow			0.005			10	0.00
Total T _c								14.43
Total T _t								8.66



0 60' 120' 240'
SCALE: 1" = 120'

LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MAJOR CONTOUR
- DRAINAGE AREA BOUNDARY
- STORM FLOW DIRECTION
- PROPOSED 4'X4' AREA INLET
- DIRECTION OF RUNOFF FLOW

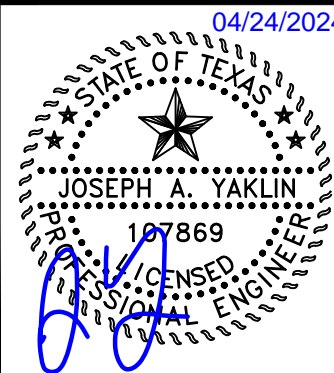


Drainage Basin	DRAINAGE AREA	AREA (SF)	AREA (AC)	Impervious Cover (Acres)	Offsite Pervious Cover (Acres)	Onsite Pervious Cover (Acres)	%IC
POND	DA-1	1,273,547	29.24	4.95	7.18	17.107	16.93%
	DA-2	84,506	1.94	0.49	0.00	1.450	25.26%
	DA-3	284,447	6.53	3.50	0.00	3.030	53.60%
OFFSITE	OS-1	400,316	9.19	2.16	0.00	7.030	23.50%

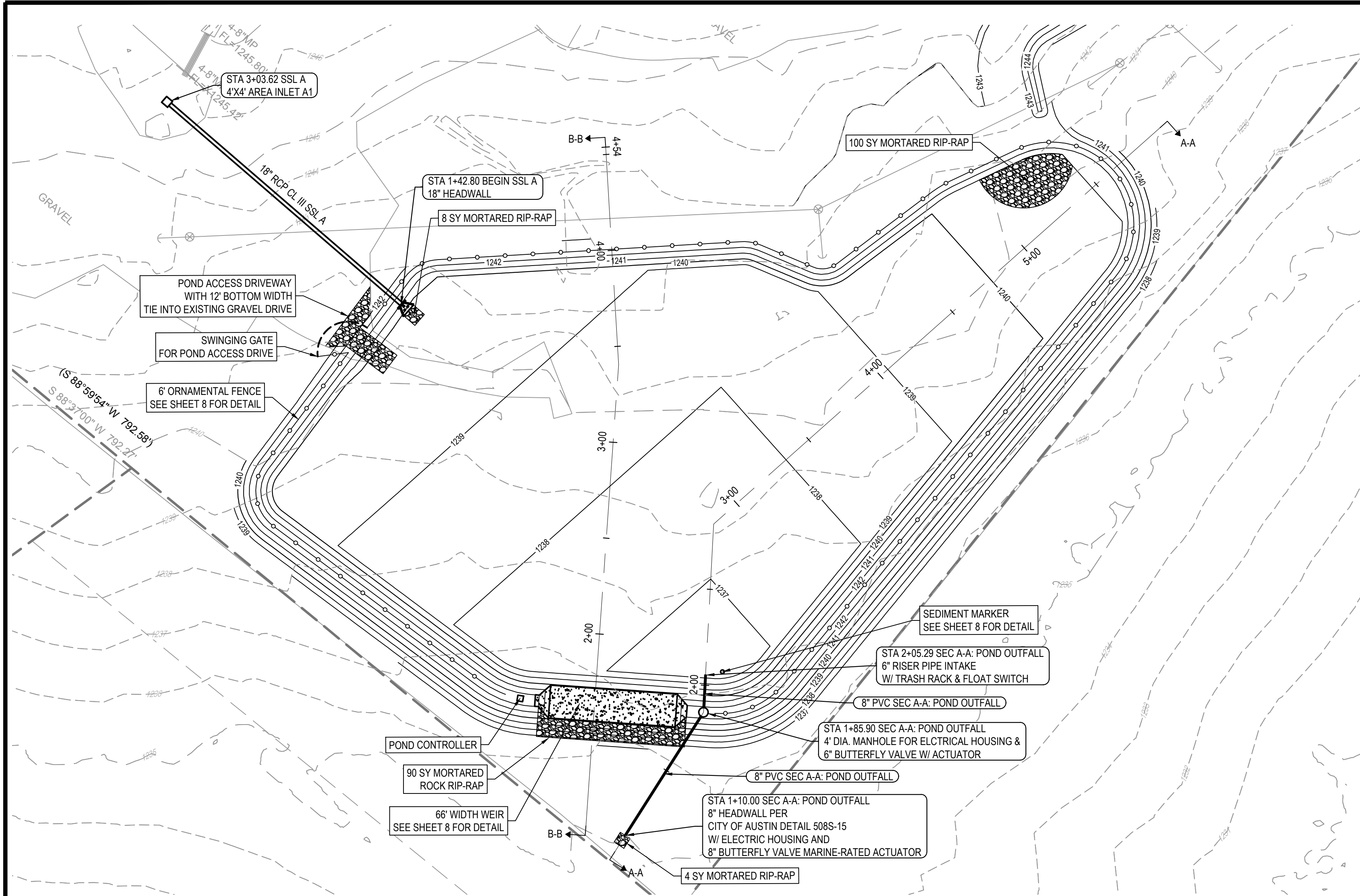


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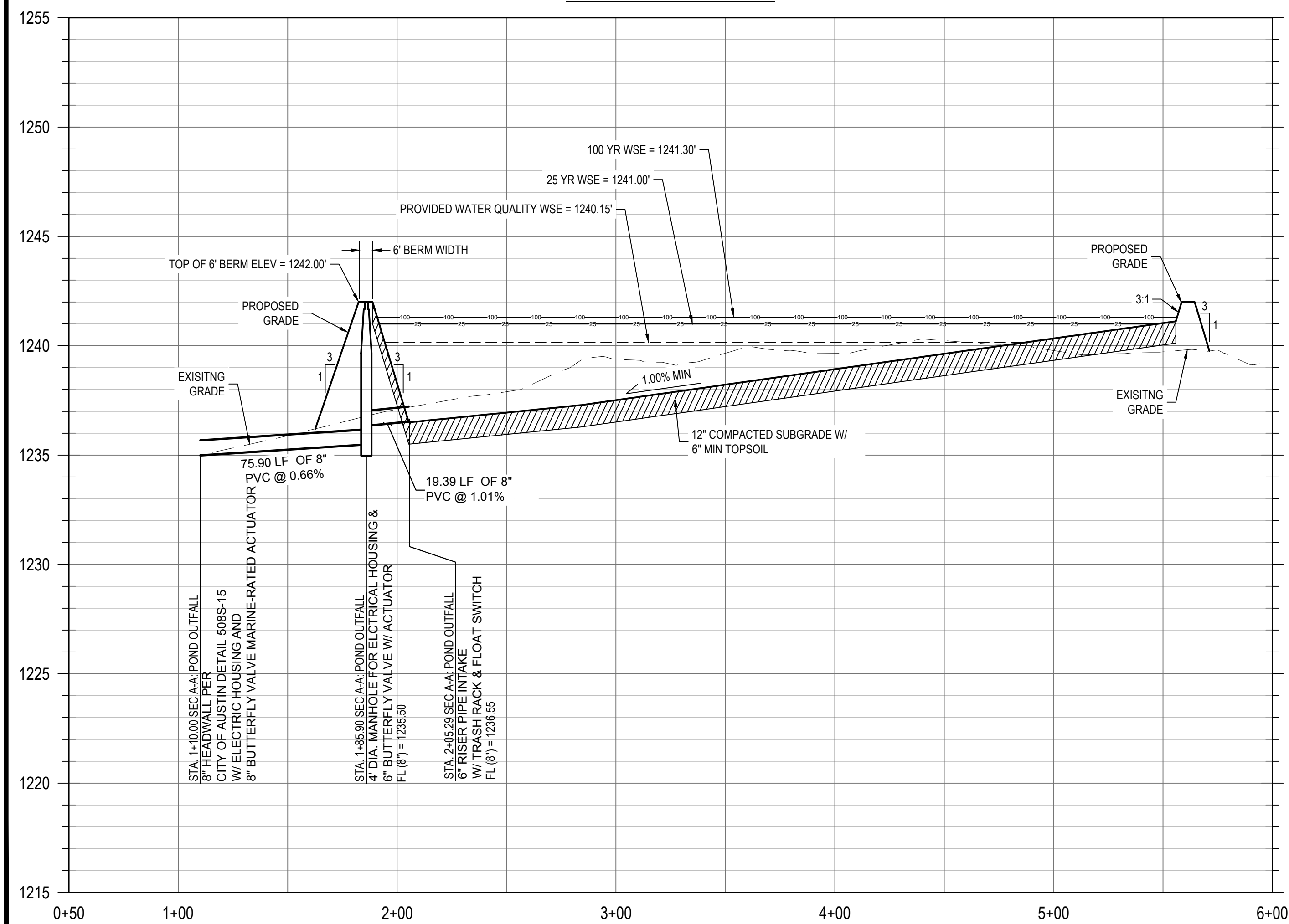
PATRIOT ERECTORS
CITY OF DRIPPING SPRINGS, TEXAS
PROPOSED DRAINAGE AREA MAP



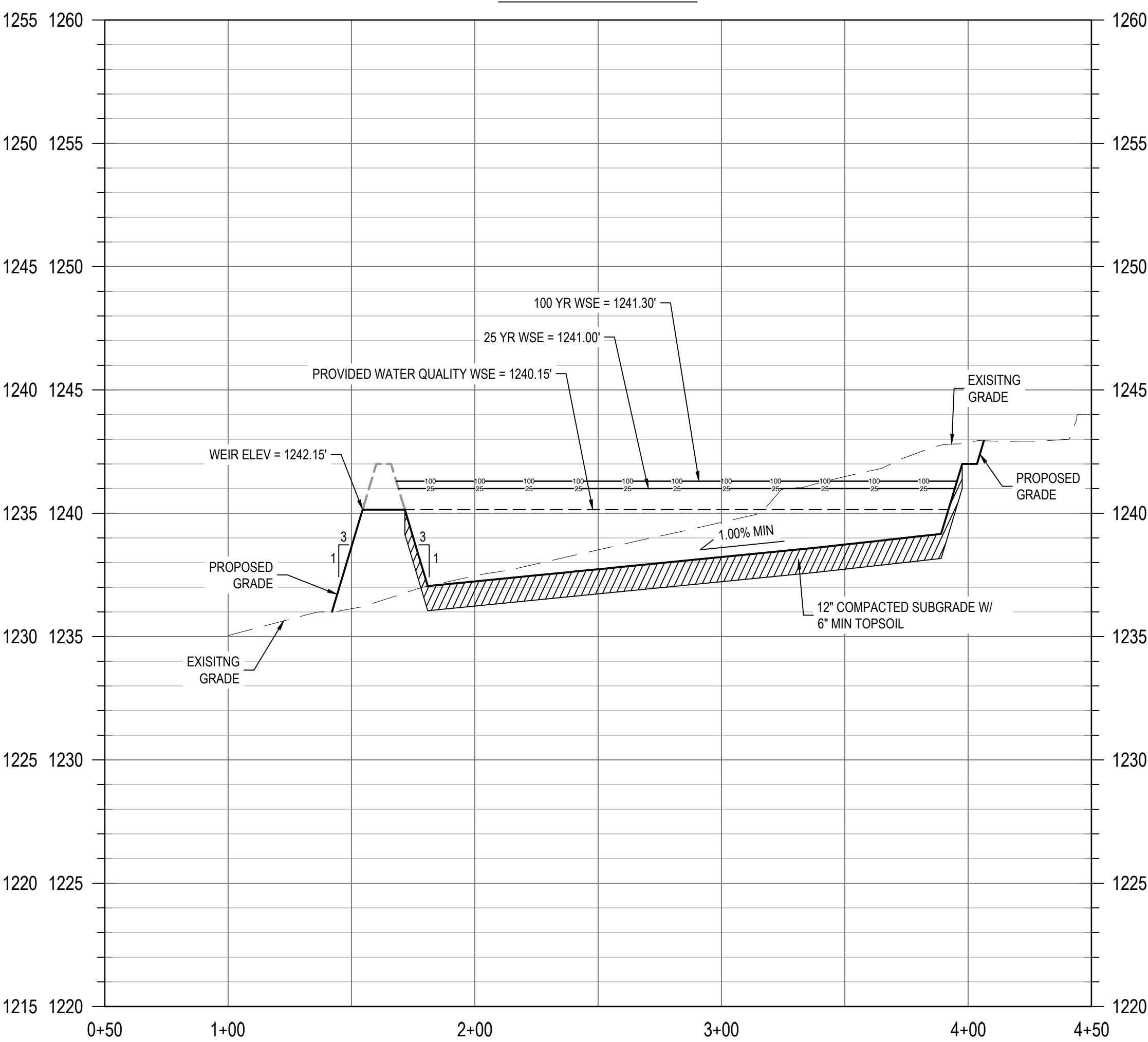
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SEC A-A: POND OUTFALL



SEC B-B: POND WEIR



1. The Required Load Reduction for the total project

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_{M1} = 27.2(A_{N1} \times P)$ (80% TSS REMOVAL)
 $30.6(A_{N1} \times P)$ (90% TSS REMOVAL)

where:
 L_{M1} TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load for TCEQ
Required TSS removal resulting from the proposed development = 90% of increased load for TCEQ
 A_{N1} = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Hays	acres
Total project area included in plan =	36.80	acres
Predevelopment impervious area within the limits of the plan =	0.00	acres
Total post-development impervious area within the limits of the plan =	11.10	acres
Total post-development impervious cover fraction =	0.30	
P =	33	inches

L_{M1} TOTAL PROJECT = 11209 lbs.

* The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = 1

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

Drainage Basin/Outfall Area No. = Batch Detention Pond

Total drainage basin/outfall area =	36.80	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	11.10	acres
Post-development impervious fraction within drainage basin/outfall area =	0.30	
L_{M1} THIS BASIN =	9963	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Detention Pond
Removal efficiency = 91 percent

4. Calculate Maximum TSS Load Removed (L_{M1}) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_{M1} = (BMP \text{ efficiency}) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$

where:

A_C = Total On-Site drainage area in the BMP catchment area
 A_1 = Impervious area proposed in the BMP catchment area
 A_P = Pervious area remaining in the BMP catchment area
 L_{M1} = TSS Load removed from this catchment area by the proposed BMP

A_C =	36.80	acres
A_1 =	11.10	acres
A_P =	25.70	acres
L_{M1} =	11950	lbs.

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

Desired L_{M1} THIS BASIN = 11209 lbs.
 $F = 0.94$

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

Calculations from RG-348

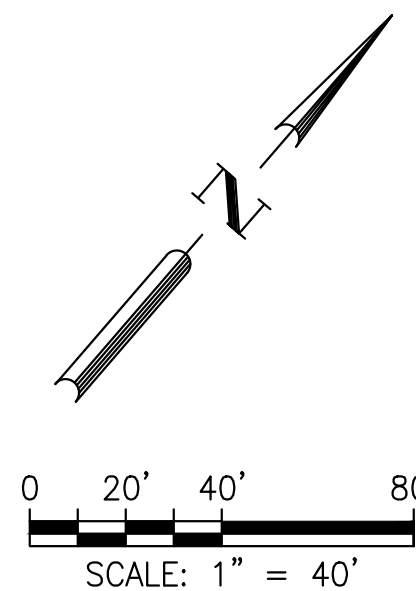
Pages 3-34 to 3-36

Rainfall Depth =	2.40	inches
Post Development Runoff Coefficient =	0.28	
On-site Water Quality Volume =	83028	cubic feet

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

Off-site area draining to BMP =	10.15	acres
Off-site impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0.00	
Off-site Runoff Coefficient =	0.02	
Off-site Water Quality Volume =	1769	cubic feet

Storage for Sediment = 16959
Total Capture Volume (required water quality volume(s) x 1.20) = 101755 cubic feet



LEGEND

PROPERTY BOUNDARY
EXISTING MINOR CONTOUR
EXISTING MAJOR CONTOUR
PROPOSED MINOR CONTOUR
PROPOSED MAJOR CONTOUR

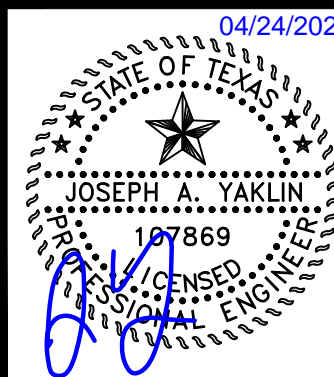
PROFILE LEGEND

FINISHED GRADE
SUBGRADE
EXISTING GRADE
25 YEAR HGL
100 YEAR HGL
WATER SURFACE ELEVATION

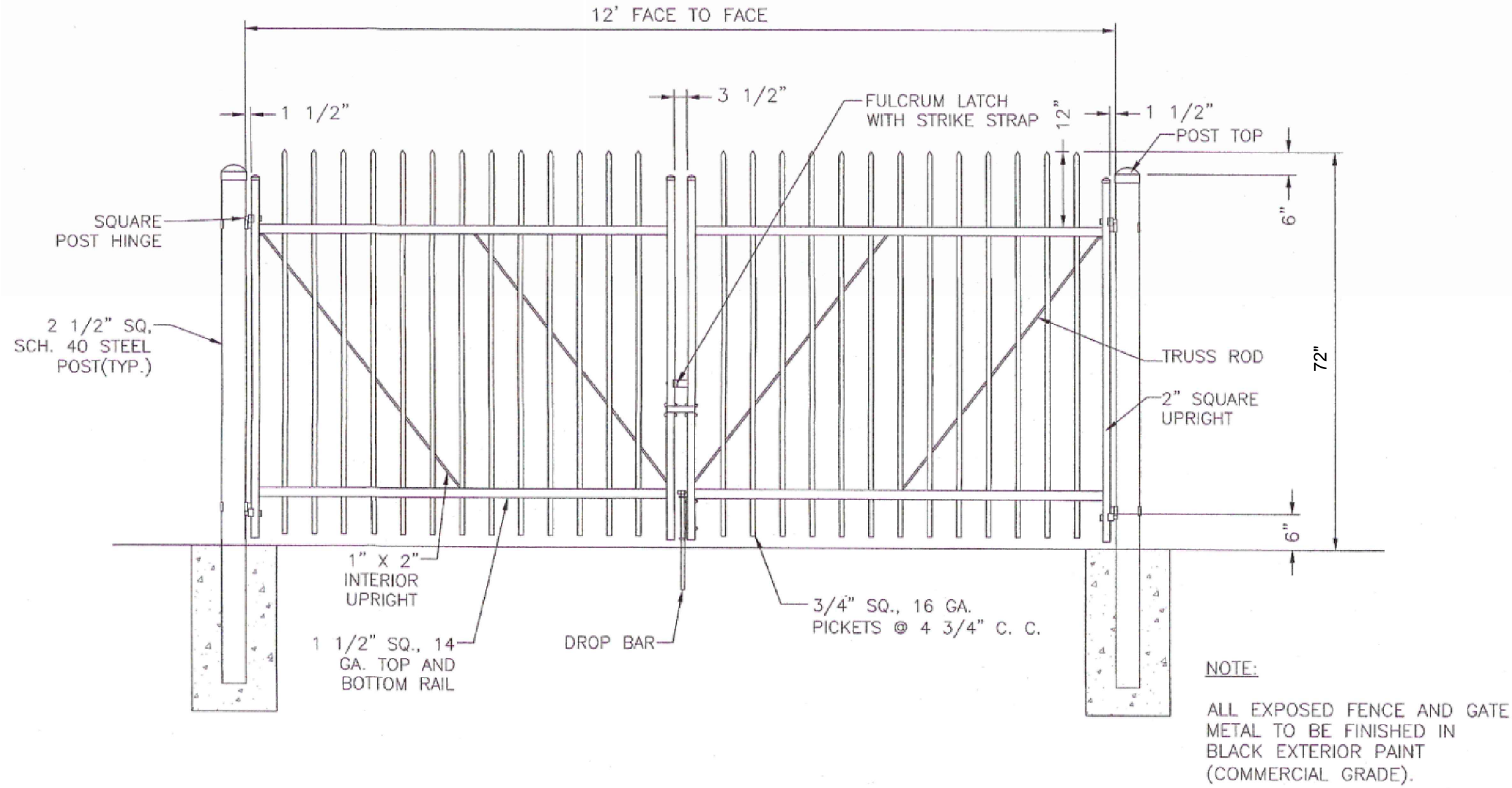


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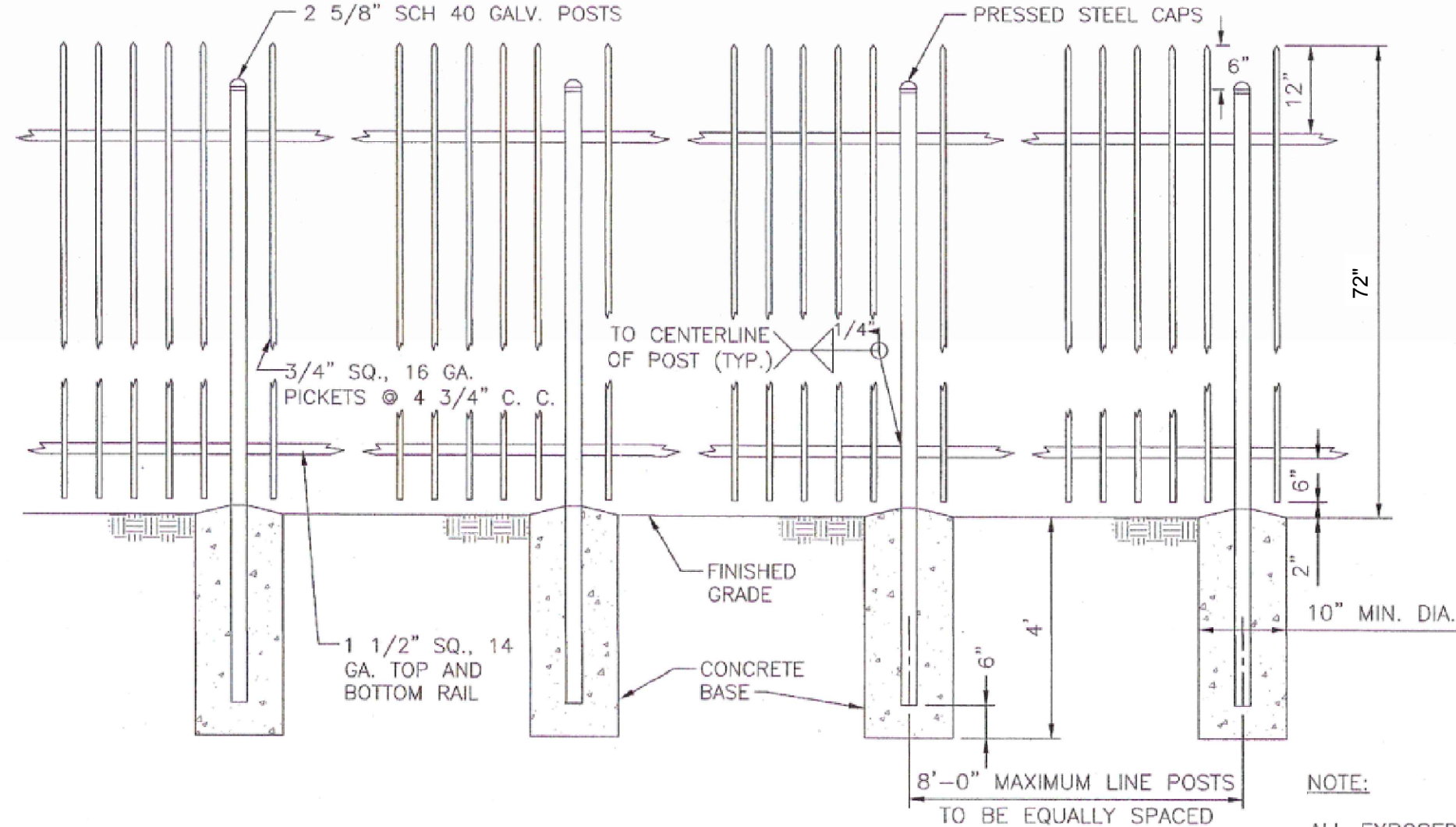
PATRIOT ERECTORS
CITY OF DRIPPING SPRINGS, TEXAS
BATCH DETENTION POND



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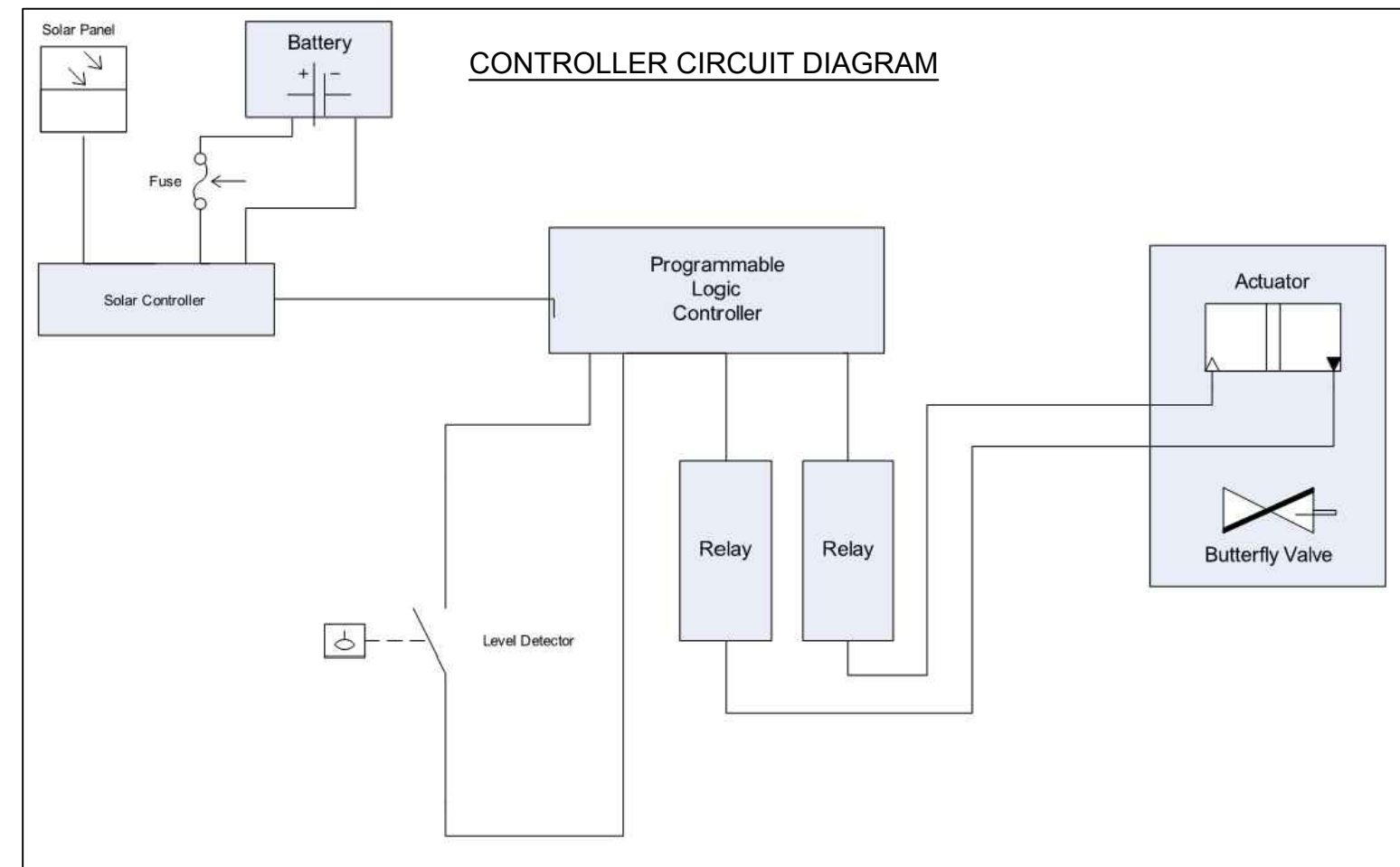
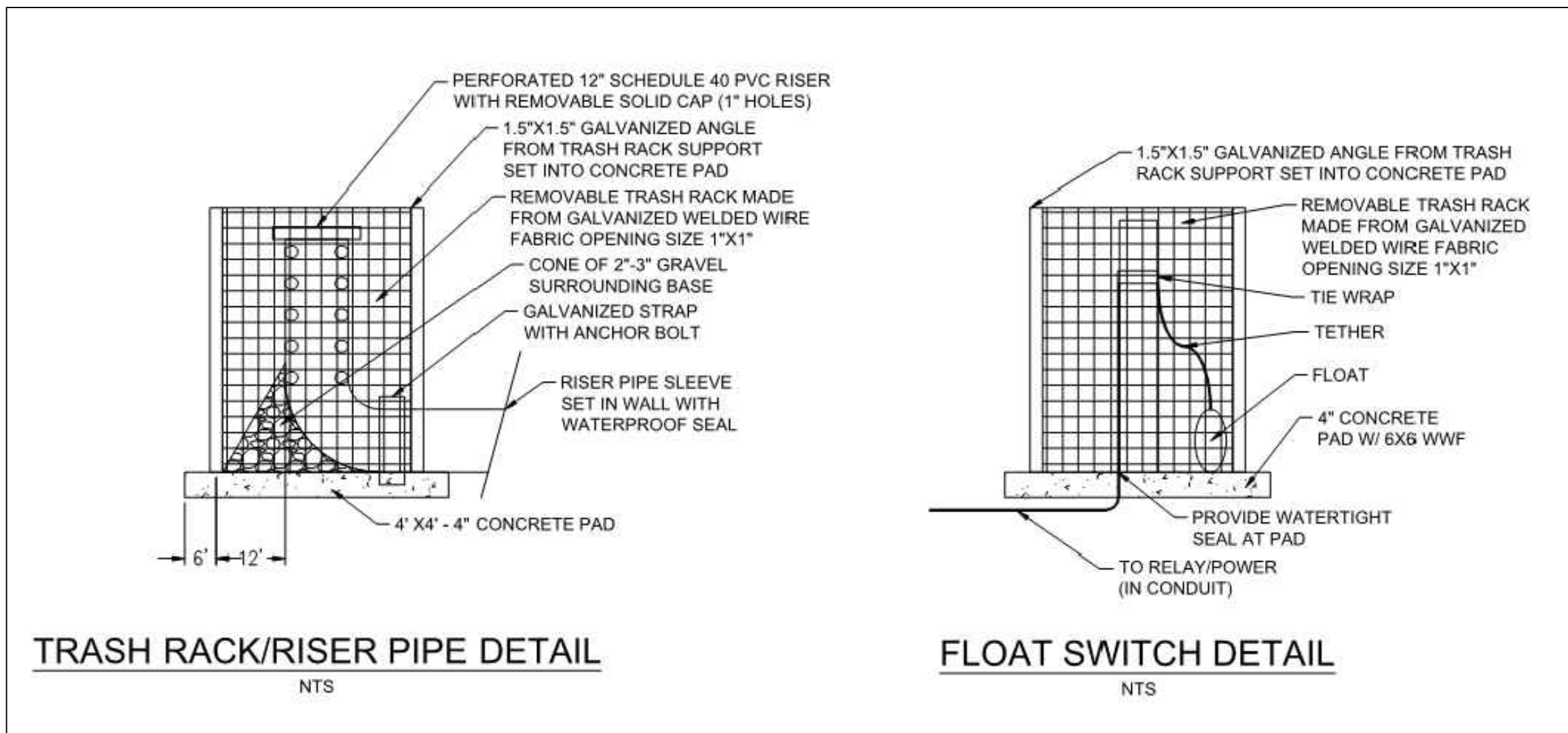
ORNAMENTAL IRON GATE DETAIL
N.T.S.



ORNAMENTAL IRON FENCE DETAIL
N.T.S.

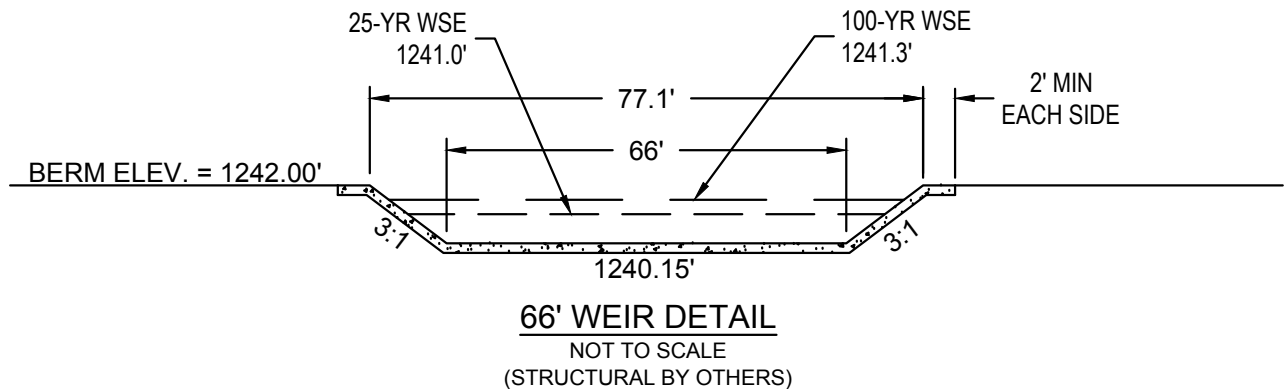
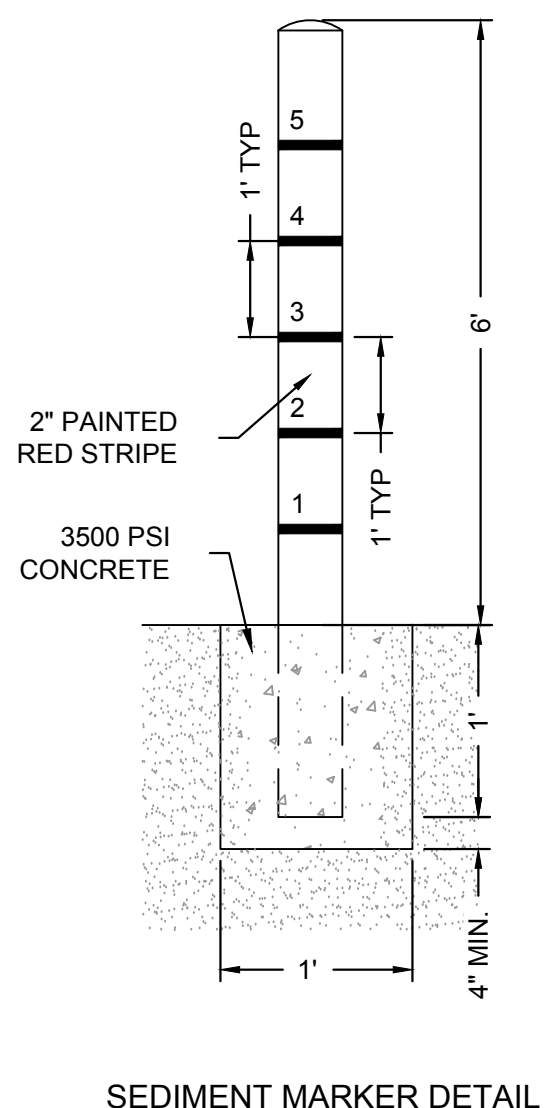
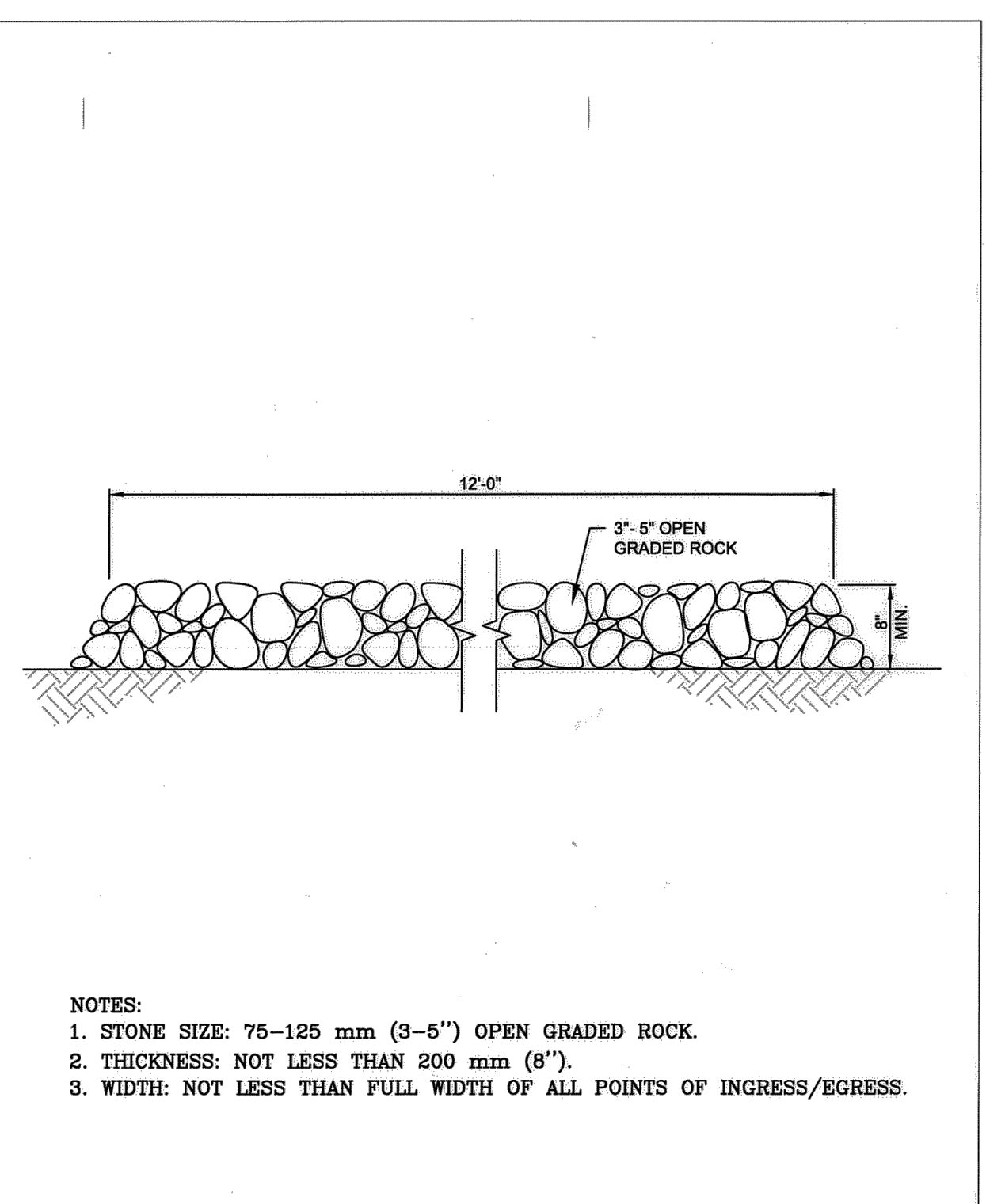
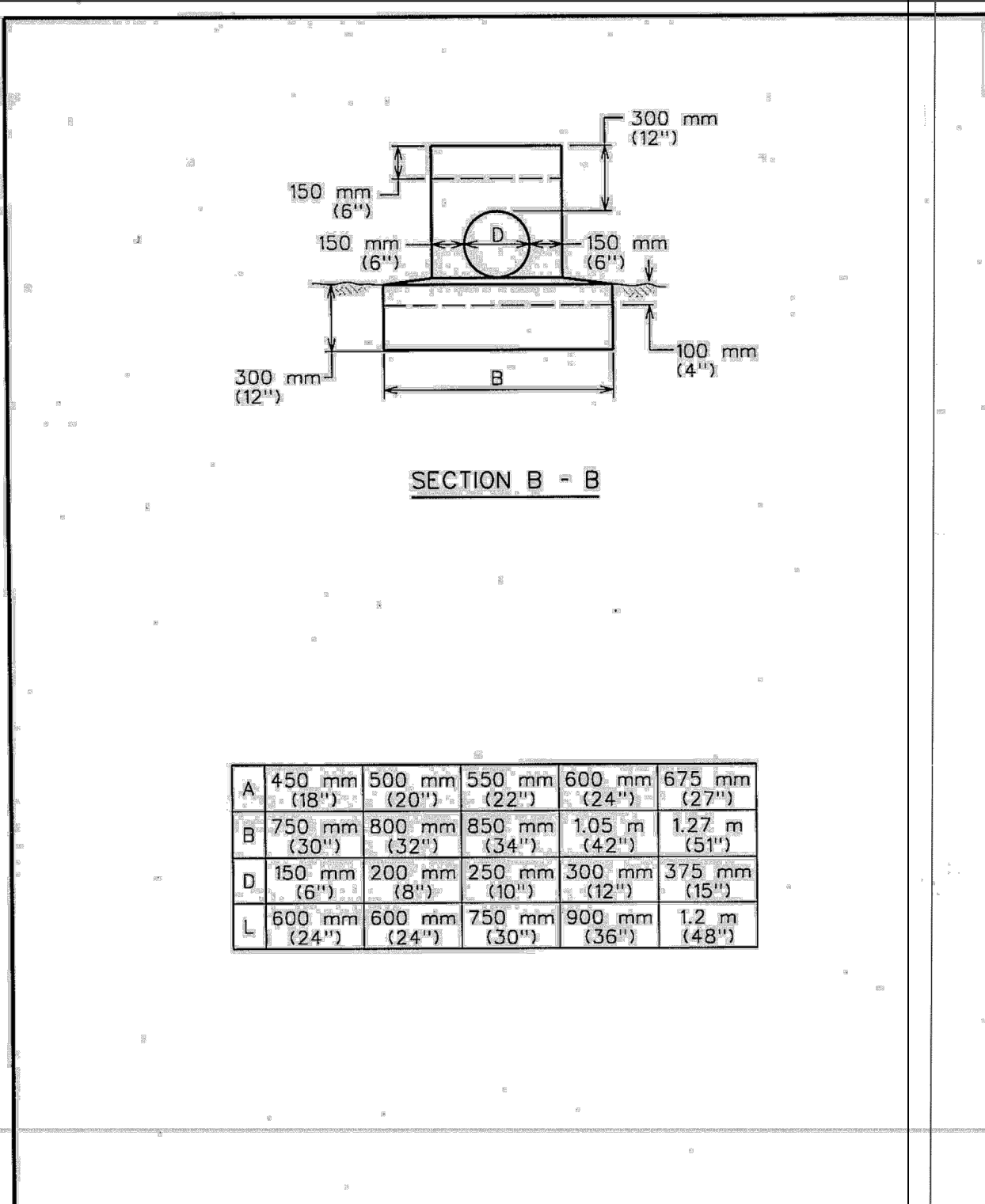
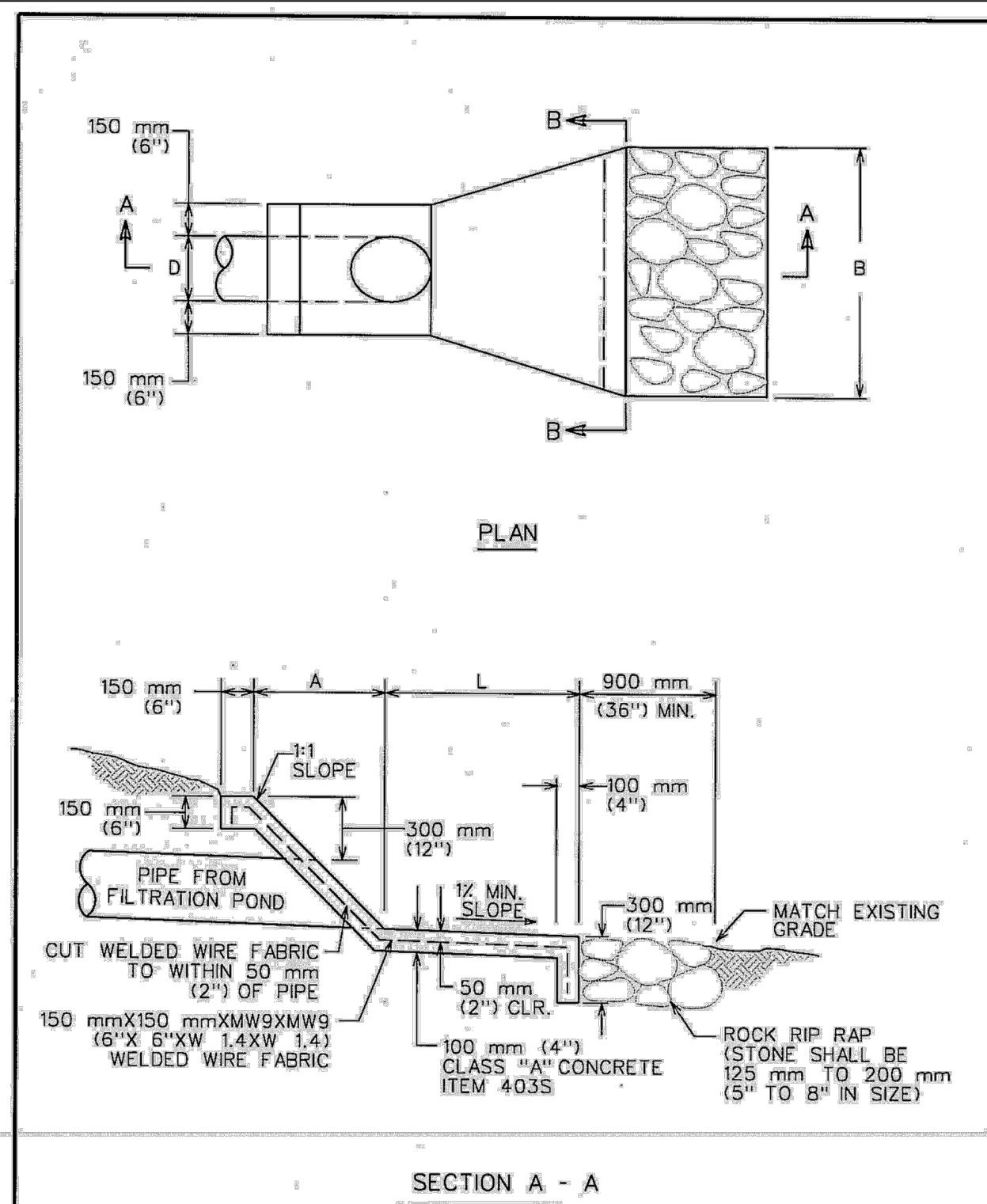
NOTES

- A SIGN WILL BE POSTED NEXT TO THE ALARM LIGHT THAT INCLUDES THE PHONE NUMBERS OF THE OWNER AND THE TCEQ AUSTIN REGIONAL OFFICE
- THE CONTROLLER DETECTS WATER FILLING THE BASIN FROM THE LEVEL SENSOR AND INITIATES A 12-HOUR DETENTION TIME. AT THE END OF THE REQUIRED DETENTION TIME, THE CONTROLLER OPENS THE VALVE AND DRAINS OUT OF THE BASIN. SUBSEQUENT RAINFALL EVENTS THAT OCCUR PRIOR TO THE BASIN DRAINING SHOULD CAUSE THE VALVE TO REMAIN OPEN AND ALLOW THE ADDITIONAL STORMWATER RUNOFF TO PASS THROUGH THE BASIN. ONCE THE BASIN IS DRAINED THE CONTROLLER CLOSSES THE VALVE.
- THE ACTUATOR VALVE FOR THE PONDS WILL BE SIZED TO ALLOW FOR COMPLETE DRAWDOWN OF THE WATER QUALITY VOLUME WITHIN 48 HOURS AFTER THE VALVE IS OPENED.
- THE LOGIC CONTROLLER SYSTEM PROVIDES THE FOLLOWING: A TEST SEQUENCE TO SIGNAL LOW BATTERY/POWER OUTAGES, AN ON/OFF/RESET SWITCH, MANUAL OPEN/CLOSE SWITCHES, CLEARLY VISIBLE EXTERNAL INDICATOR TO INDICATE WHEN A CYCLE IS IN PROGRESS WITHOUT OPENING THE BOX. THE ABILITY TO EXERCISES THE VALVE TO PREVENT SEIZING.



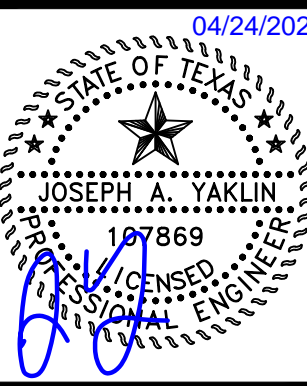
BATCH DETENTION BASIN					
Stage (ft msl)	Pond Depth	Cumulative Pond Depth	Area	Volume	Cumulative
(Elevation)	(ft)	(ft)	(sf)	(cf)	Volume (cf)
1236.50	0.00	0.00	0.00	0	0
1237.00	0.50	0.50	2605.67	434	434
1238.00	1.00	1.50	19053.45	9,568	10,003
1239.00	1.00	2.50	45560.70	31,359	41,362
1240.00	1.00	3.50	61032.61	53,109	94,470
1240.15	0.15	3.65	62421.51	9,259	103,729
1241.00	0.85	4.50	70020.55	65,475	159,946
1242.00	1.00	5.50	75443.06	72,715	232,660

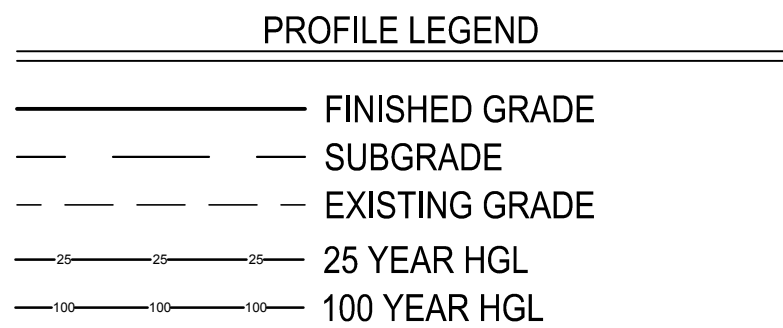
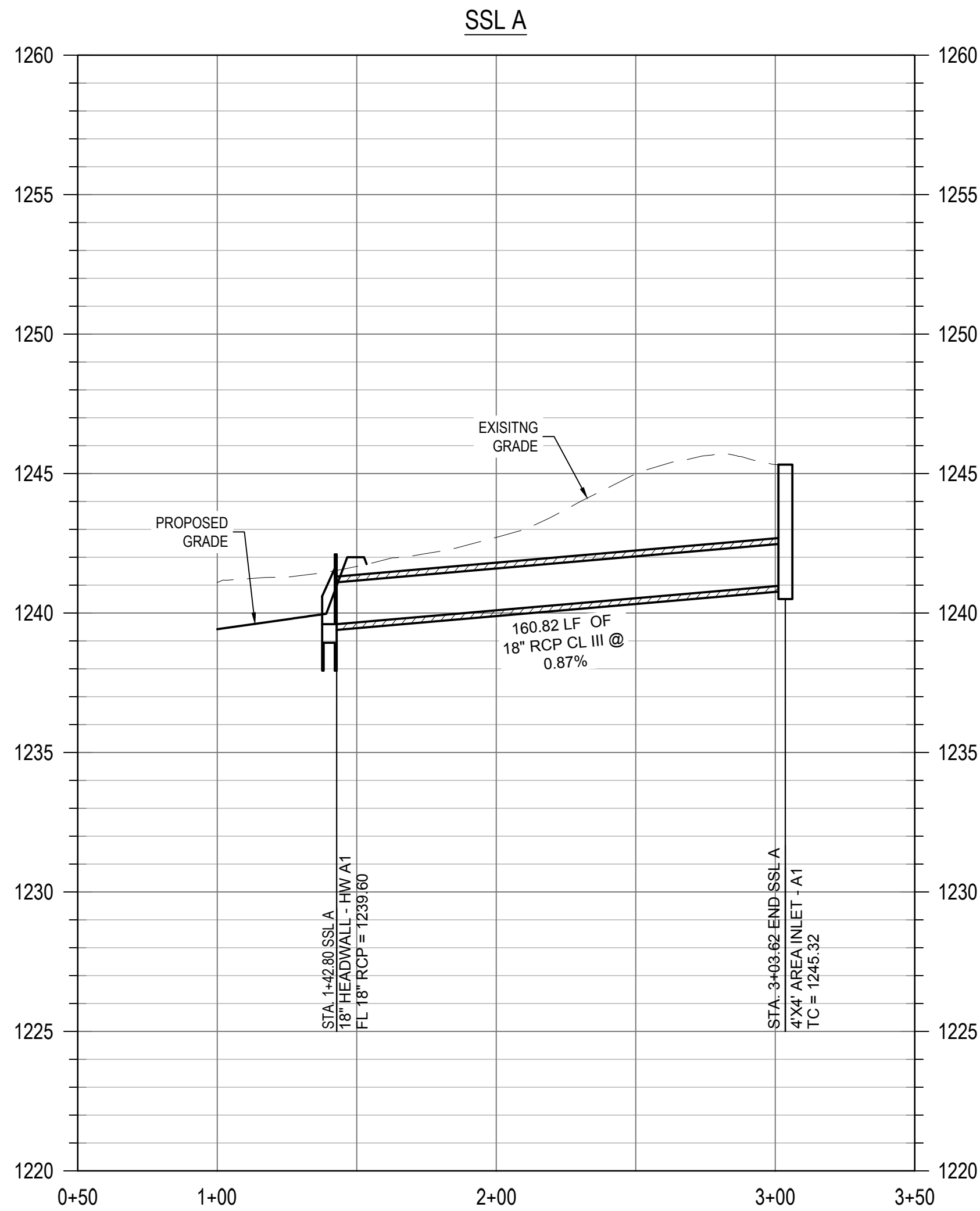
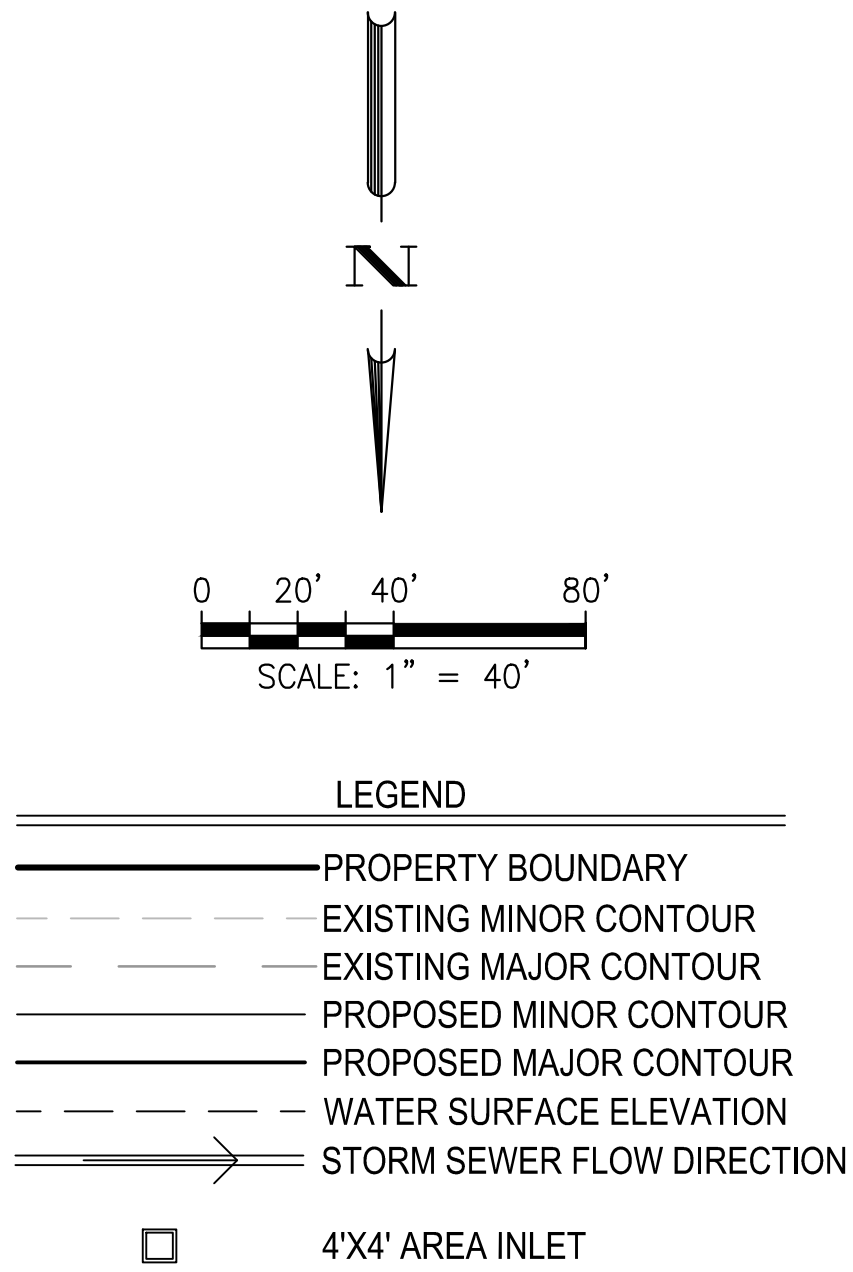
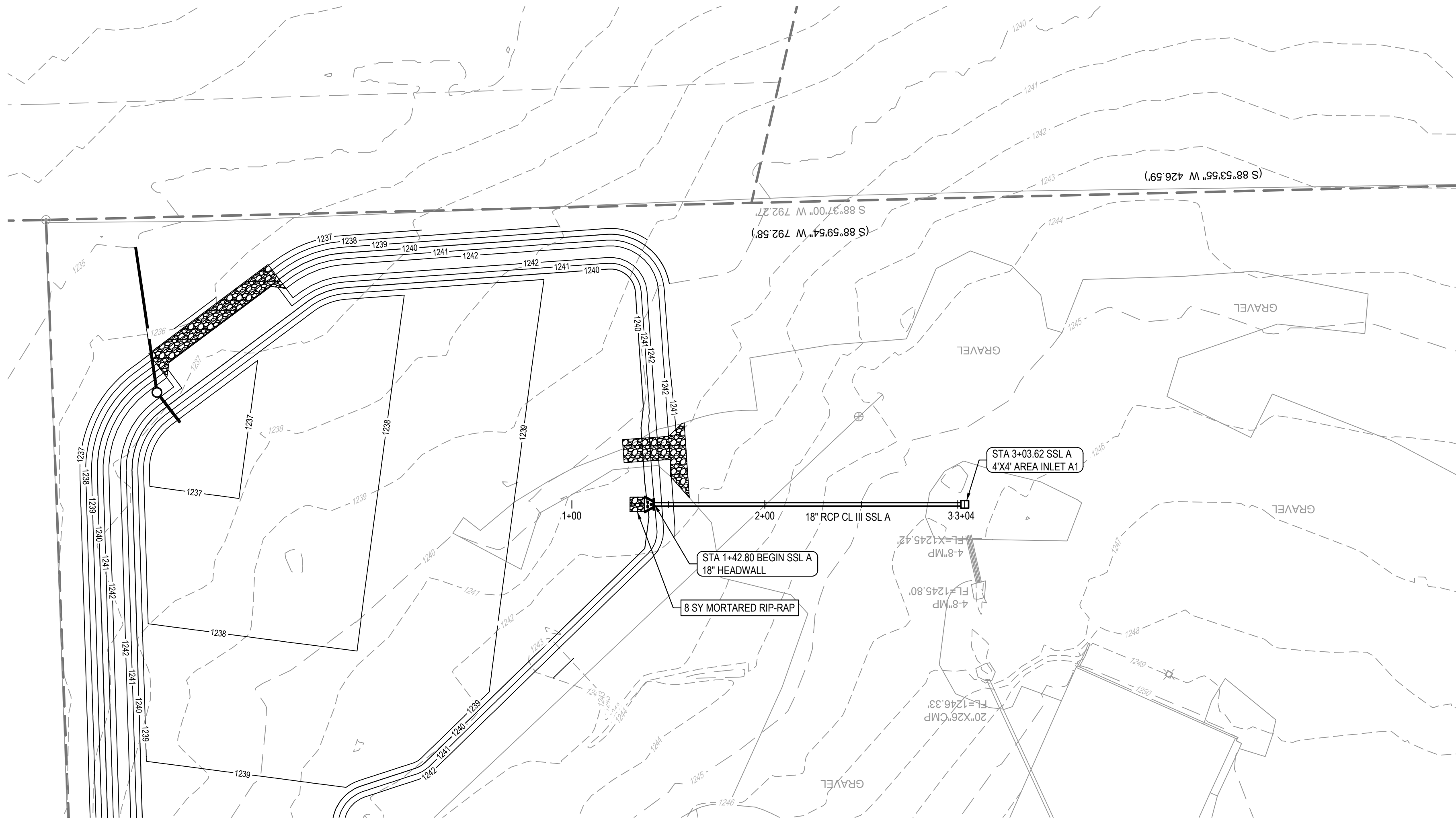
STORM EVENT	ELEVATION (FT)	FLOW (CFS)
25-YR	1,241.00	185.30
100-YR	1,241.30	252.60



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PATRIOT ERECTORS
CITY OF DRIPPING SPRINGS, TEXAS
BATCH DETENTION POND DETAILS





811
Know what's below.
Call before you dig.

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DATE	REV	DESCRIPTION
APR		

DESIGNED BY:

REVIEWED BY:

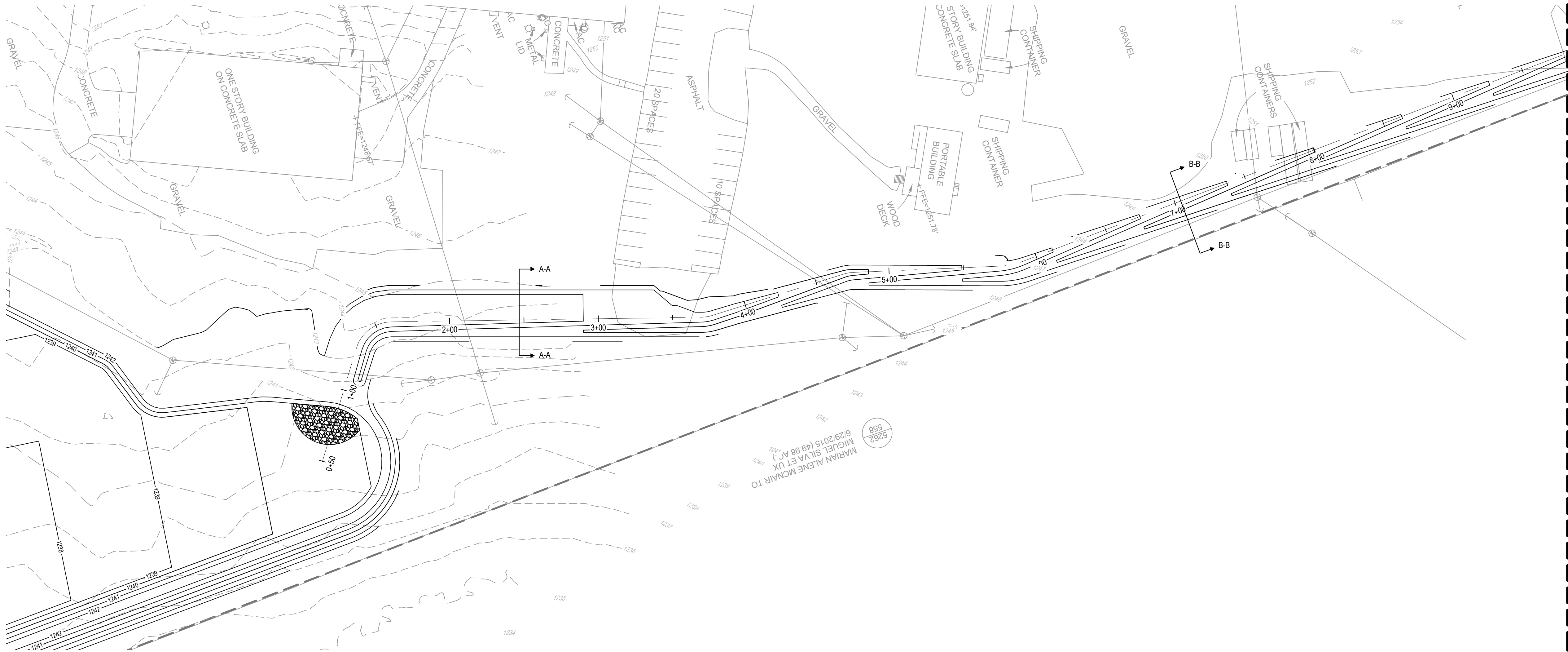
DRAWN BY:

BCE Inc.
101 W. LOUIS BEND BLVD., SUITE 400
AUSTIN, TX 78728
TEL: 512-875-0400 • www.bceinc.com
TBEPE Registration No. F-1946

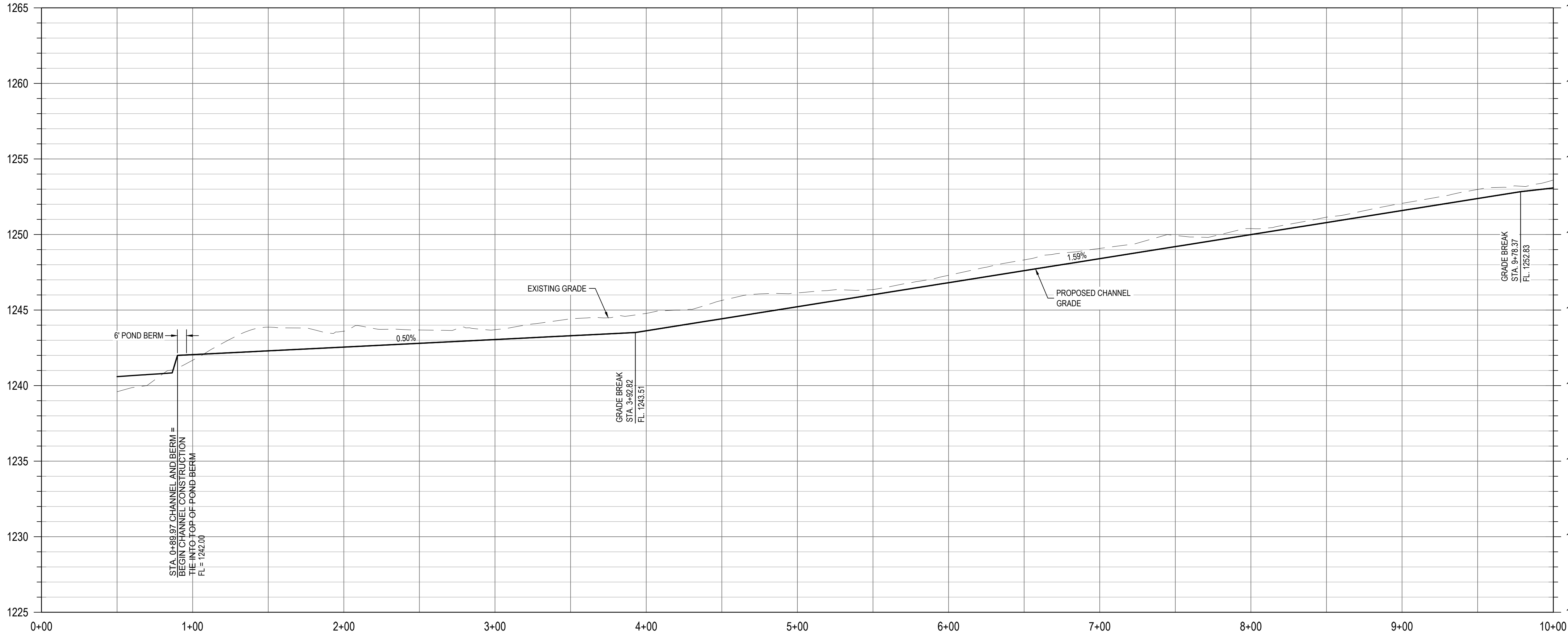
PATRIOT ERECTORS
CITY OF DRIPPING SPRINGS, TEXAS
STORM SEWER LINE A

04/24/2024
JOSEPH A. YAKLIN
107869
Professional Engineer

9 OF 15

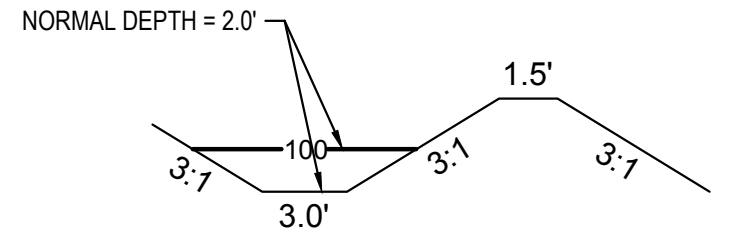
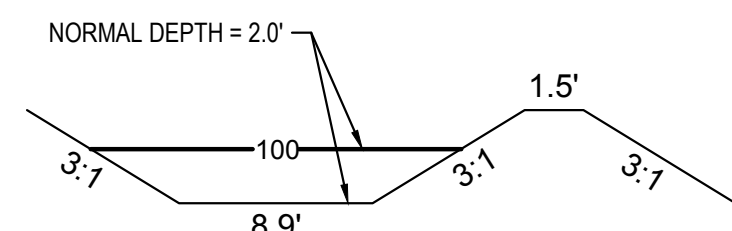


CHANNEL AND BERM



- LEGEND
- PROPERTY BOUNDARY
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - WATER SURFACE ELEVATION
 - STORM SEWER FLOW DIRECTION
 - 4'X4' AREA INLET

- PROFILE LEGEND
- FINISHED GRADE
 - SUBGRADE
 - EXISTING GRADE
 - 25 YEAR HGL
 - 100 YEAR HGL




NOTE: CHANNEL SECTION WAS DESIGNED IN ACCORDANCE TO THE CITY OF DRIPPING SPRINGS AND HAYS COUNTY FREEBOARD REQUIREMENTS

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APR		

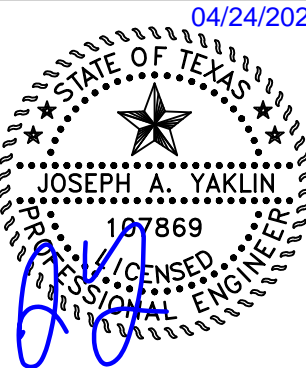
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REVIEWED BY:

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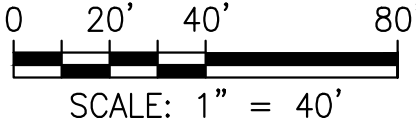
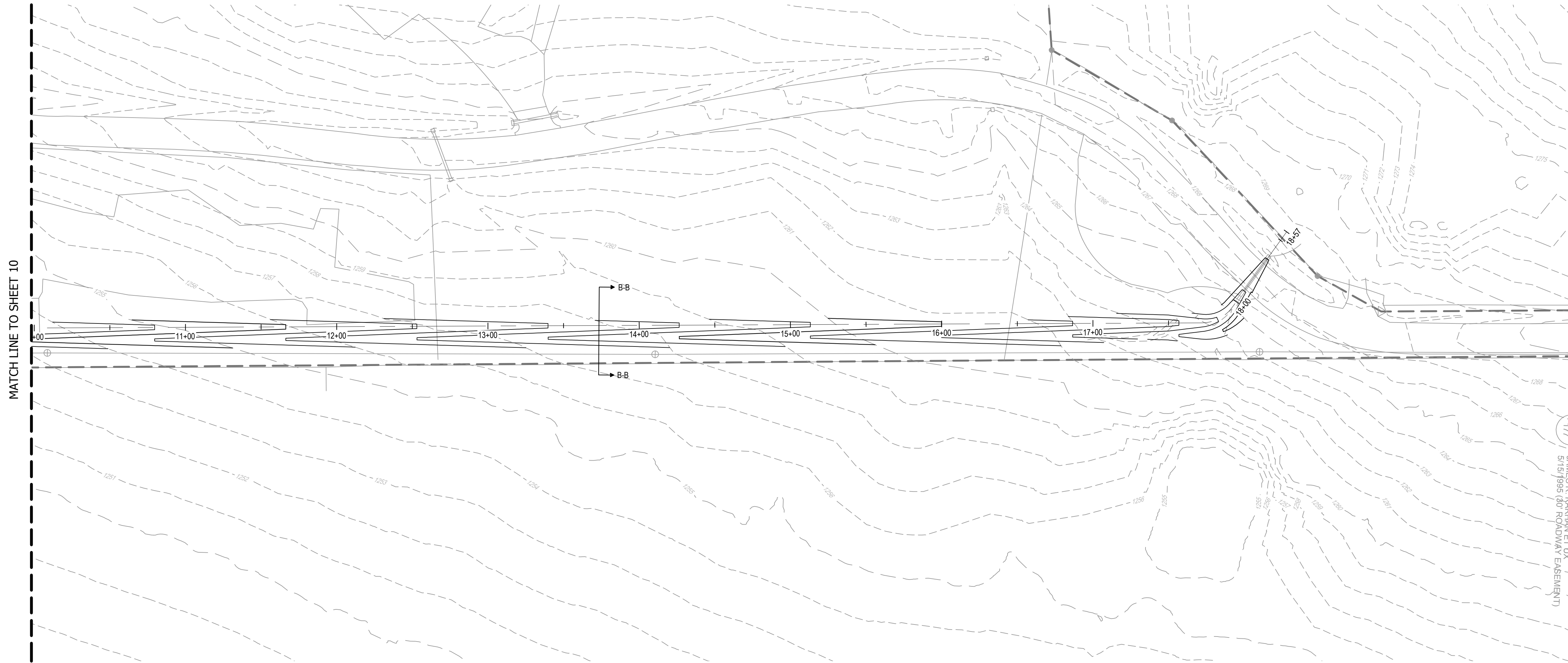
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AUSTIN, TX 78728
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TBEPE Registration No. F-1946

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CITY OF DRIPPING SPRINGS, TEXAS
STORM CHANNEL (1 OF 2)

04/24/2024

JOSEPH A. YAKLIN
197869
REGISTERED PROFESSIONAL ENGINEER

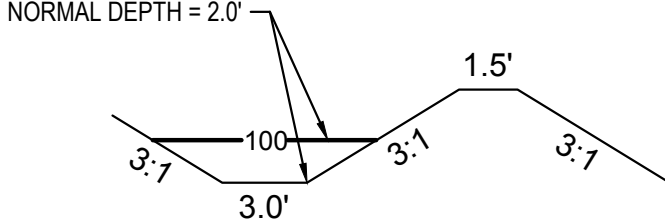
10 OF 15

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- LEGEND
- PROPERTY BOUNDARY
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - WATER SURFACE ELEVATION
 - STORM SEWER FLOW DIRECTION
 - 4'X4' AREA INLET

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 - SUBGRADE
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DATE	REV	DESCRIPTION
APR		

DESIGNED BY:	
REVIEWED BY:	
DRAWN BY:	

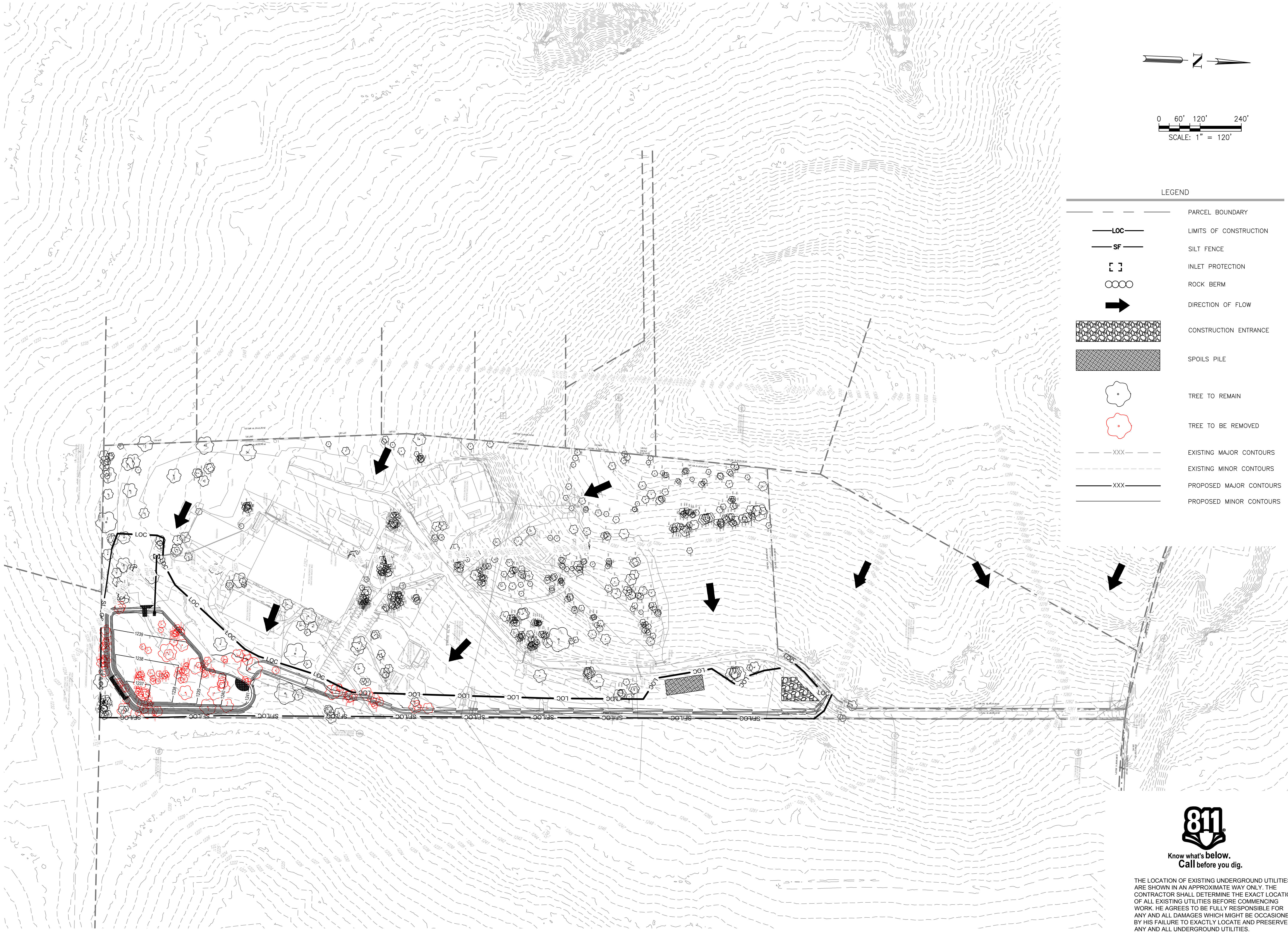
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PATRIOT ERECTORS
CITY OF DRIPPING SPRINGS, TEXAS
STORM CHANNEL (2 OF 2)

04/24/2024

JOSEPH A. YAKLIN
107869
REGISTERED PROFESSIONAL ENGINEER

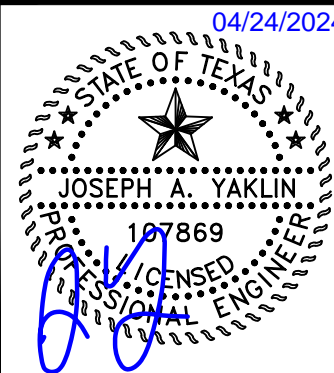
11 OF 15



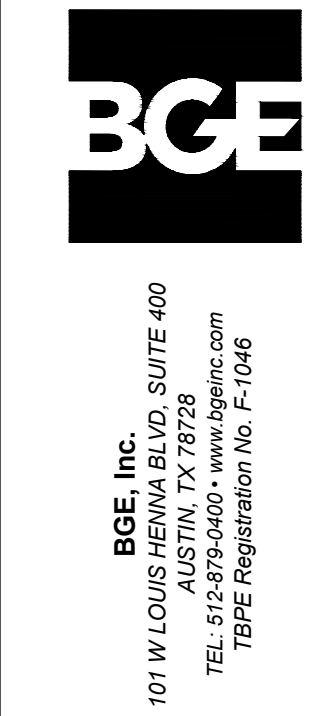
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LEGEND	
	PARCEL BOUNDARY
	LIMITS OF CONSTRUCTION
	SILT FENCE
	INLET PROTECTION
	ROCK BERM
	DIRECTION OF FLOW
	CONSTRUCTION ENTRANCE
	SPOILS PILE
	TREE TO REMAIN
	TREE TO BE REMOVED
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	PROPOSED MAJOR CONTOURS
	PROPOSED MINOR CONTOURS

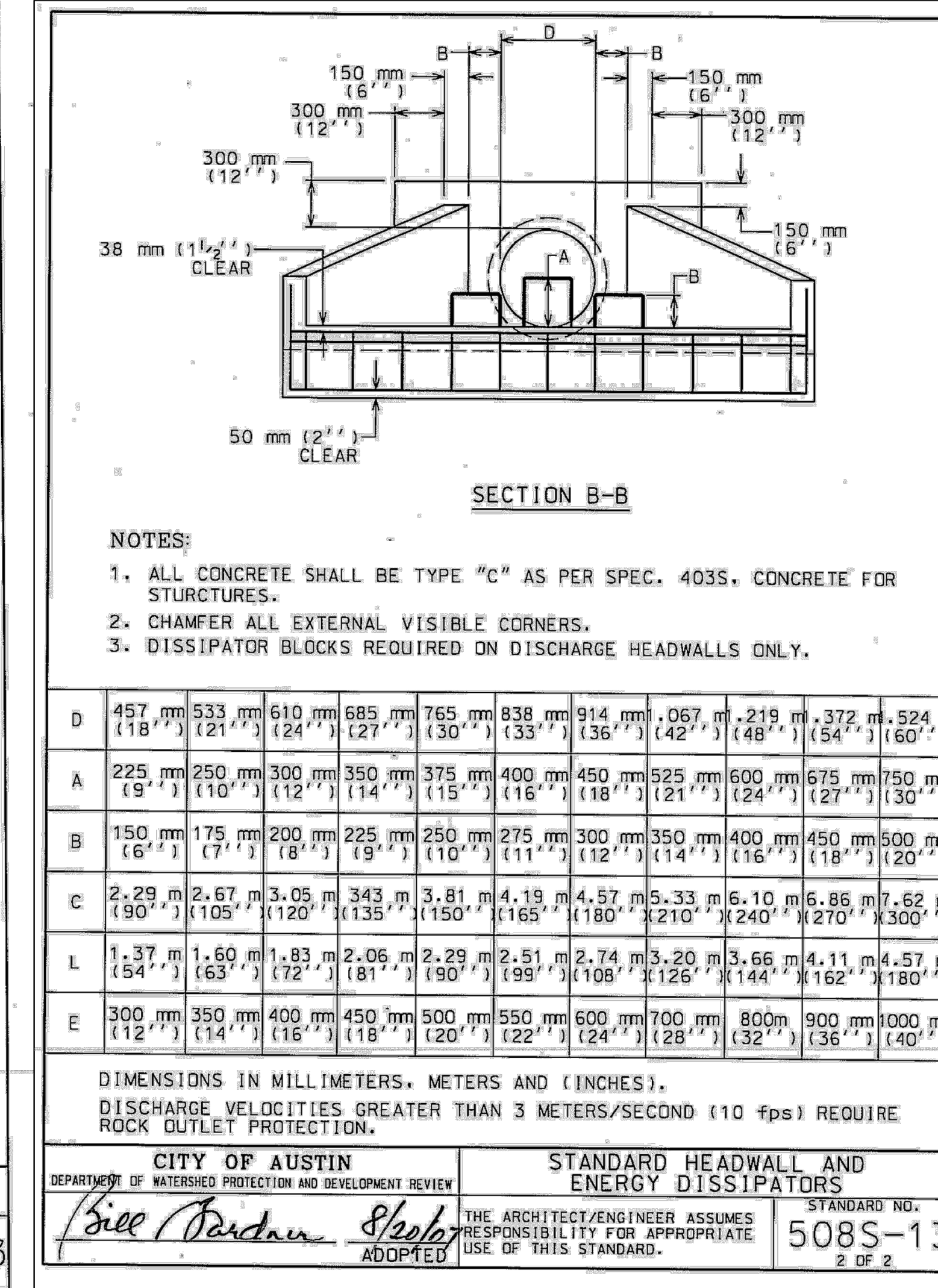
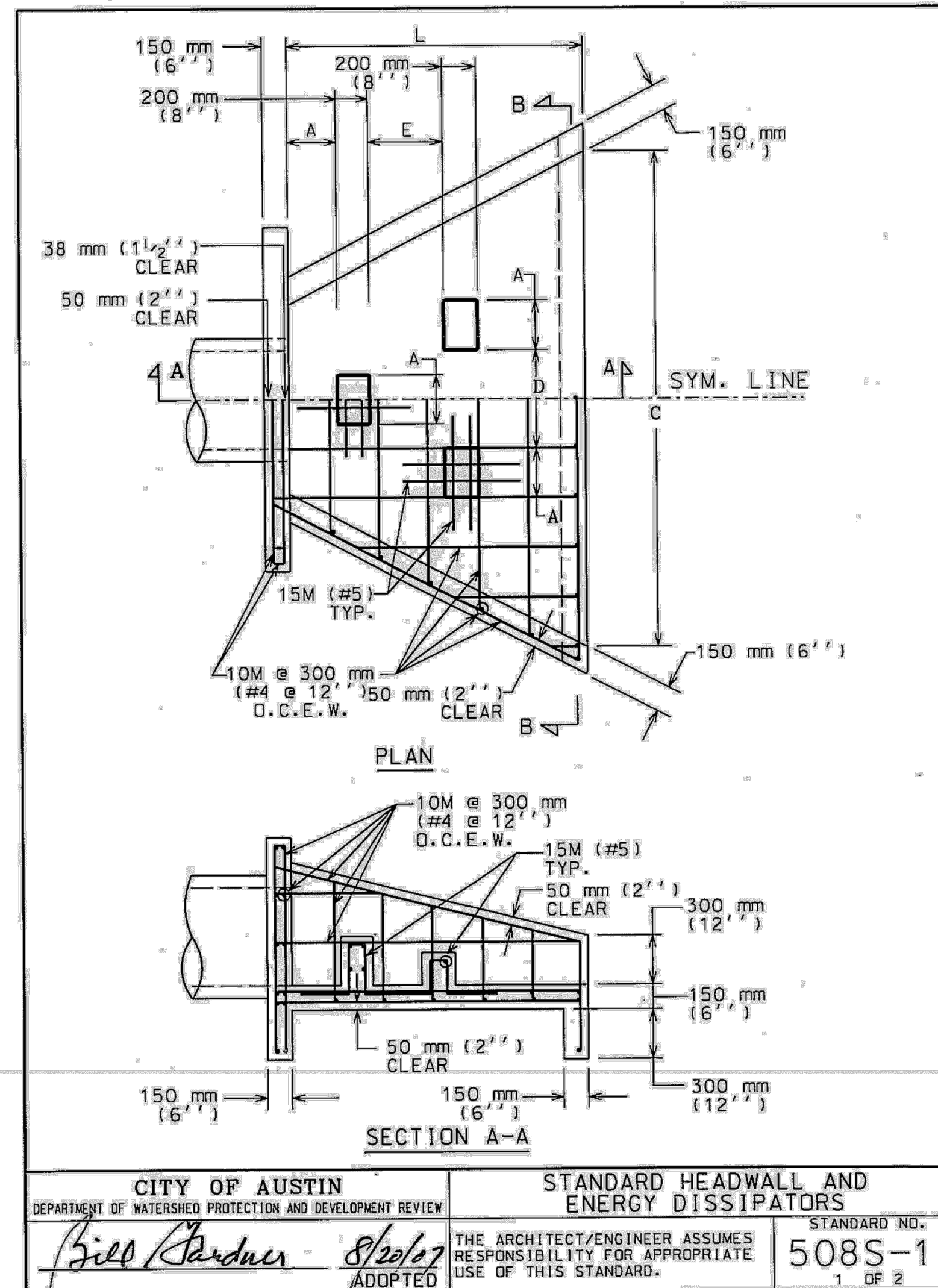
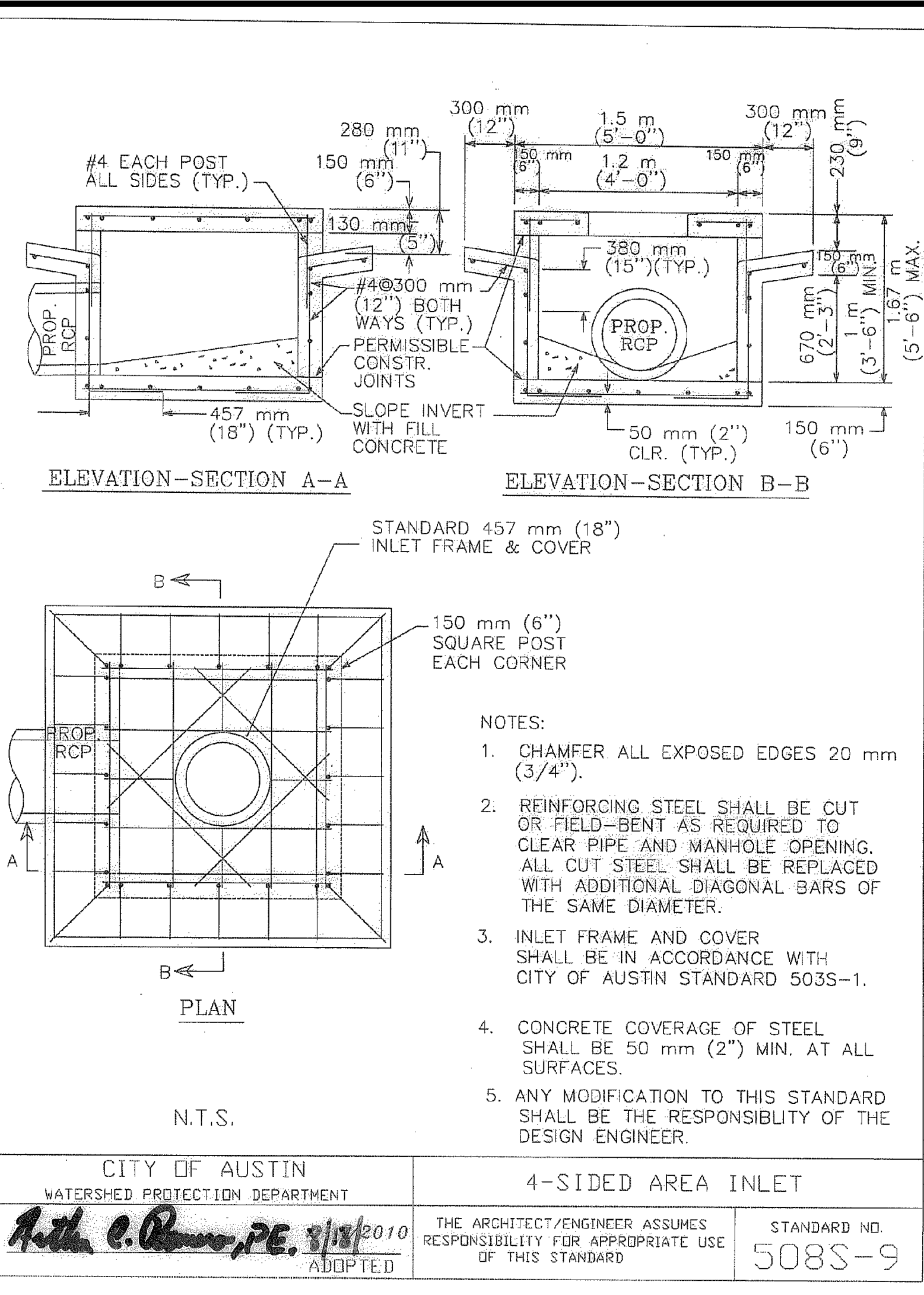
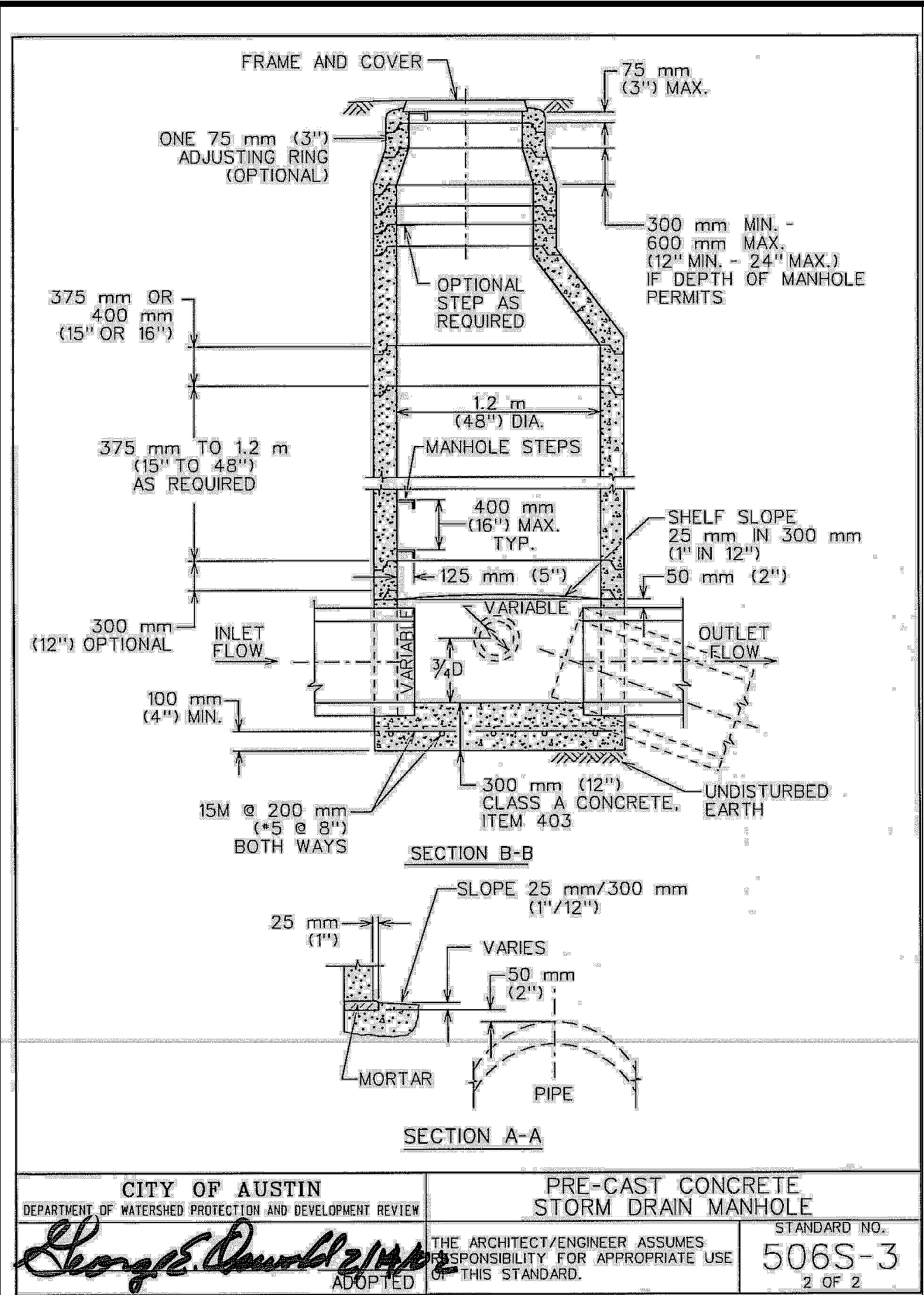
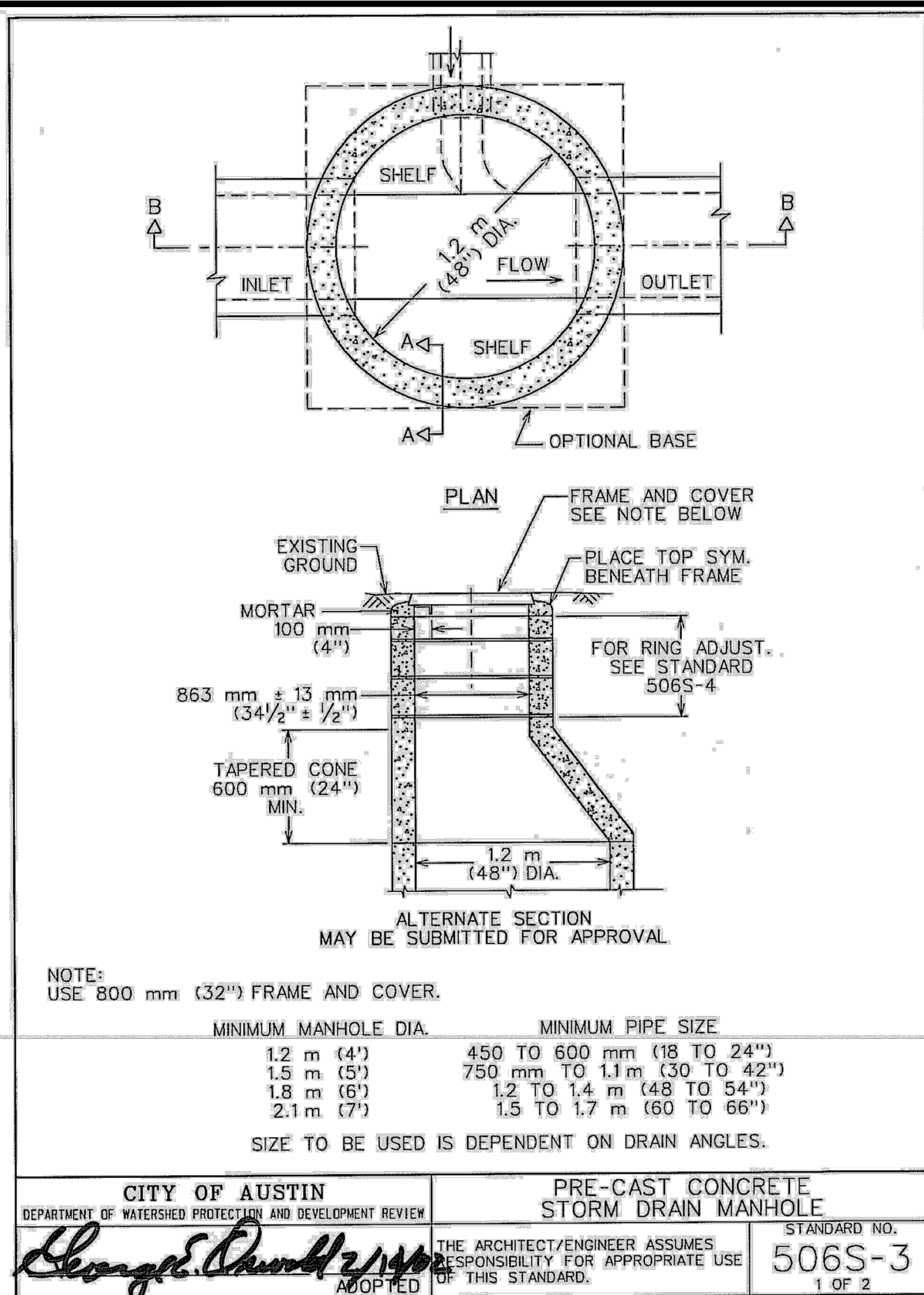
PATRIOT ERECTORS
CITY OF DRIPPING SPRINGS, TEXAS
EROSION CONTROL PLAN



DESIGNED BY:	
REVIEWED BY:	
DRAWN BY:	
DATE	APR
DESCRIPTION	



49	16" LIVE OAK	2066	15" LIVE OAK	2702	5" & 7" LIVE OAK	3906	12" LIVE OAK	* 4629	8" LIVE OAK	10398	DOUBLE 9" LIVE OAK	10759	9" &11" LIVE OAK
550	10" LIVE OAK	2067	10", 12" & 14" LIVE OAK	2727	7" LIVE OAK	3970	DOUBLE 8" OAK	* 4632	9" LIVE OAK	10399	8" LIVE OAK	10760	DOUBLE 9" LIVE OAK
1298	15" LIVE OAK	2068	8" LIVE OAK	2728	7" LIVE OAK	3985	16" LIVE OAK	* 4633	12" LIVE OAK	10400	9" LIVE OAK	10761	10" LIVE OAK
1300	10" LIVE OAK	2069	15" LIVE OAK	2729	DOUBLE 8" LIVE OAK	3986	14" LIVE OAK	* 4634	9" LIVE OAK	10401	8" LIVE OAK	10762	11" LIVE OAK
1301	8" LIVE OAK	2070	11" LIVE OAK	2730	8" LIVE OAK	3987	12" LIVE OAK	* 4635	9" LIVE OAK	10402	7" LIVE OAK	10763	15" LIVE OAK
1306	TRIPLE 16" LIVE OAK	2071	13" LIVE OAK	2731	7" LIVE OAK	3988	21" LIVE OAK	* 4636	9" LIVE OAK	10403	DOUBLE 12" LIVE OAK	10764	27" LIVE OAK
1307	29" LIVE OAK	2072	8" LIVE OAK	2732	8" LIVE OAK	3997	15" OAK	4639	8" LIVE OAK	10404	13" LIVE OAK	10766	9" LIVE OAK
1308	22" LIVE OAK	2073	8" LIVE OAK	2733	10" LIVE OAK	4001	16" LIVE OAK	4640	8" LIVE OAK	10409	10" LIVE OAK	10769	10" LIVE OAK
1309	18" LIVE OAK	2074	8" LIVE OAK	2734	10" LIVE OAK	4002	15" LIVE OAK	4641	8" LIVE OAK	10410	9" LIVE OAK	10770	10" LIVE OAK
1310	16" LIVE OAK	2075	9" LIVE OAK	2735	9" LIVE OAK	4007	15" LIVE OAK	4644	15" OAK	10411	9" LIVE OAK	10771	DOUBLE 11" LIVE OAK
1311	DOUBLE 19" LIVE OAK	2076	8" LIVE OAK	2736	8" LIVE OAK	4008	13" LIVE OAK	4645	13" OAK	10412	10" LIVE OAK	10772	9" & 10" LIVE OAK
1312	13" LIVE OAK	2077	7" & 8" LIVE OAK	2737	10" LIVE OAK	4035	8" & 17" LIVE OAK	4646	12" OAK	10413	8" LIVE OAK	10773	9" LIVE OAK
1313	9" LIVE OAK	2078	9" LIVE OAK	2738	10" LIVE OAK	4036	15" LIVE OAK	4647	8" OAK	10414	9" LIVE OAK	10776	15" LIVE OAK
1314	8" LIVE OAK	2079	10" LIVE OAK	2739	13" LIVE OAK	4063	13" LIVE OAK	4648	11" OAK	10415	9" LIVE OAK	10777	16" LIVE OAK
1315	8" LIVE OAK	2080	15" LIVE OAK	2740	10" LIVE OAK	4064	6" & 12" LIVE OAK	4649	13" LIVE OAK	10416	9" LIVE OAK	10778	18" LIVE OAK
1316	8" LIVE OAK	2081	10" LIVE OAK	2741	10" LIVE OAK	4065	8" LIVE OAK	4650	31" LIVE OAK	10417	7" LIVE OAK	10779	8" LIVE OAK
1317	5" & 7" LIVE OAK	2082	15" LIVE OAK	2742	10" LIVE OAK	4066	15" LIVE OAK	4655	21" LIVE OAK	10418	8" CrapeMyrtle	10780	8" LIVE OAK
1318	7" LIVE OAK	2083	8" LIVE OAK	2743	9" LIVE OAK	4067	20" LIVE OAK	4658	15" OAK	10419	8" CrapeMyrtle	10783	15" LIVE OAK
1319	9" LIVE OAK	2084	9" LIVE OAK	2744	12" LIVE OAK	4088	12" OAK	4659	8" OAK	10423	10" LIVE OAK	10784	17" LIVE OAK
1320	7" LIVE OAK	2085	8" LIVE OAK	2745	11" LIVE OAK	4119	12" LIVE OAK	4660	23" LIVE OAK	10424	6" LIVE OAK	10785	8" LIVE OAK
1321	6", 6" & 8" LIVE OAK	2086	9" LIVE OAK	2746	9" LIVE OAK	4120	16" LIVE OAK	4661	9" LIVE OAK	10425	7" LIVE OAK	10786	12" LIVE OAK
1322	10" LIVE OAK	2102	15" LIVE OAK	2747	10" LIVE OAK	4121	19" LIVE OAK	4668	10" LIVE OAK	10426	10" LIVE OAK	10787	12" LIVE OAK
1323	9" LIVE OAK	2239	15" LIVE OAK	2748	8" LIVE OAK	4122	22" LIVE OAK	4669	14" LIVE OAK	10427	9" LIVE OAK	10788	10" LIVE OAK
1324	9" LIVE OAK	2252	13" LIVE OAK	2749	DOUBLE 7" LIVE OAK	4140	16" LIVE OAK	4670	14" LIVE OAK	10428	8" LIVE OAK	10789	10" LIVE OAK
1325	12" LIVE OAK	2253	10" LIVE OAK	2750	8" LIVE OAK	4154	12" & 18" LIVE OAK	4671	15" LIVE OAK	10429	9" LIVE OAK	10790	12" LIVE OAK
1326	8" LIVE OAK	2254	10" LIVE OAK	2751	8" LIVE OAK	4156	15" LIVE OAK	4672	12" OAK	10430	6" LIVE OAK	10791	10" LIVE OAK
1327	DOUBLE 11" LIVE OAK	2255	8" LIVE OAK	2752	10" LIVE OAK	4235	10", 13" & 16" LIVE OAK	4673	7" & 10" LIVE OAK	10431	DOUBLE 8" LIVE OAK	10792	14" LIVE OAK
1328	9" LIVE OAK	2256	8" LIVE OAK	2753	8" LIVE OAK	4413	9" LIVE OAK	4675	9" LIVE OAK	10432	8" LIVE OAK	10793	14" LIVE OAK
1329	11" LIVE OAK	2257	8" LIVE OAK	2754	7" LIVE OAK	4414	10" LIVE OAK	4676	23" LIVE OAK	10433	6" LIVE OAK	10794	14" LIVE OAK
1330	10" & 24" LIVE OAK	2258	8" LIVE OAK	2755	8" LIVE OAK	4415	8" LIVE OAK	4681	19" LIVE OAK	10483	13" OAK	10795	10" LIVE OAK
1331	14" & 15" LIVE OAK	2259	9" LIVE OAK	2756	12" LIVE OAK	4416	8" LIVE OAK	4682	21" LIVE OAK	10484	15" LIVE OAK	10796	16" LIVE OAK
1342	14" LIVE OAK	2260	10" LIVE OAK	2757	10" LIVE OAK	4417	9" LIVE OAK	4683	9" LIVE OAK	10485	10" LIVE OAK	11862	14" LIVE OAK
1343	9" LIVE OAK	2261	7" LIVE OAK	2759	9" LIVE OAK	4418	8" LIVE OAK	4706	10", 10" & 14" LIVE OAK	10486	9" OAK	11863	8" & 10" LIVE OAK
1344	7" LIVE OAK	2262	9" LIVE OAK	2767	10" LIVE OAK	4419	10" LIVE OAK	4708	8" LIVE OAK	10487	11" OAK	11864	9" LIVE OAK
1345	7" & 8" LIVE OAK	2263	10" LIVE OAK	2768	9" LIVE OAK	4420	9" LIVE OAK	4714	9" & 11" LIVE OAK	10488	13" LIVE OAK	11865	9" LIVE OAK
1346	10" LIVE OAK	2264	10" LIVE OAK	2769	9" LIVE OAK	4421	8" LIVE OAK	4715	10" LIVE OAK	10489	11" LIVE OAK	11866	15" LIVE OAK
1347	14" LIVE OAK	2265	12" & 18" LIVE OAK	2770	8" LIVE OAK	4422	9" LIVE OAK	4716	9" LIVE OAK	* 10493	9" LIVE OAK	15058	8" LIVE OAK
1348	12" LIVE OAK	2266	12" & 17" LIVE OAK	2771	DOUBLE 8" LIVE OAK	4423	7" LIVE OAK	4717	8" LIVE OAK	* 10502	10" OAK	15059	8" LIVE OAK
1349	8" LIVE OAK	2267	9", 9", 13" & 15" LIVE OAK	2772	8" LIVE OAK	4424	7" LIVE OAK	4718	9" LIVE OAK	* 10503	20" OAK	15088	22" ELM
1350	8" LIVE OAK	OAK		2773	16" LIVE OAK	4425	8" LIVE OAK	4719	8" LIVE OAK	10504	22" OAK	15089	20" OAK
1351	8" LIVE OAK	2268	10" LIVE OAK	2774	8" LIVE OAK	4510	9" LIVE OAK	4720	12" LIVE OAK	10505	12" LIVE OAK		
1352	8" LIVE OAK	2269	11" LIVE OAK	2775	9" LIVE OAK	4511	5" & 9" LIVE OAK	4723	7" LIVE OAK	10506	14" LIVE OAK		
1353	DOUBLE 8" LIVE OAK	2318	9" LIVE OAK	2776	9" LIVE OAK	4512	11" LIVE OAK	4724	9" LIVE OAK	10507	16" OAK		
1354	9" LIVE OAK	2319	9" LIVE OAK	2777	10" LIVE OAK	4513	13" LIVE OAK	4725	7" LIVE OAK	10549	16" LIVE OAK		
1355	9" LIVE OAK	2320	36" LIVE OAK	2778	8" LIVE OAK	4514	9" LIVE OAK	4726	8" LIVE OAK	10550	10" LIVE OAK		
1356	8" LIVE OAK	2321	14" LIVE OAK	2779	9", 10" & 11" LIVE OAK	* 4515	10" LIVE OAK	4727	8" LIVE OAK	* 10551	11" LIVE OAK		
1357	10" LIVE OAK	2322	9" LIVE OAK	2780	8" LIVE OAK	* 4536	12" LIVE OAK	4729	8" LIVE OAK	* 10552	19" LIVE OAK		
1358	DOUBLE 8" LIVE OAK	2323	9" LIVE OAK	2823	11" LIVE OAK	* 4537	10" LIVE OAK	4730	8" LIVE OAK	* 10553	22" OAK		
1363	8" LIVE OAK	2324	10" LIVE OAK	2940	9" LIVE OAK	* 4538	DOUBLE 20" LIVE OAK	4731	9" LIVE OAK	* 10554	12" OAK		
1364	6", 7" & 7" LIVE OAK	2325	10" LIVE OAK	2941	14" LIVE OAK	* 4543	20" LIVE OAK	4732	7" LIVE OAK	* 10555	9" & 10" OAK		
1365	8" & 9" LIVE OAK	2326	DOUBLE 8" LIVE OAK	2942	9" LIVE OAK	* 4544	24" LIVE OAK	4733	7" LIVE OAK	10556	9", 14" & 16" OAK		
1366	9" LIVE OAK	2327	8" LIVE OAK	2943	8" & 9" LIVE OAK	* 4549	8" LIVE OAK	4737	10" LIVE OAK	* 10557	13" ELM		
1367	16" LIVE OAK	2328	11" LIVE OAK	2944	11" LIVE OAK	* 4550	7" & 9" LIVE OAK	4738	8" LIVE OAK	* 10558	19" ELM		
1368	10" & 14" LIVE OAK	2329	8" LIVE OAK	2945	10" LIVE OAK	* 4551	9" LIVE OAK	4739	12" LIVE OAK	* 10559	11" ELM		
1369	12" LIVE OAK	2330	12" LIVE OAK	2946	9" LIVE OAK	* 4552	8" LIVE OAK	4740	10" LIVE OAK	* 10560	16" LIVE OAK		
1370	DOUBLE 14" LIVE OAK	2331	10" LIVE OAK	2947	7" LIVE OAK	* 4553	7" LIVE OAK	4748	9" & 13" LIVE OAK	* 10566	18" OAK		
1371	14" LIVE OAK	2332	9" LIVE OAK	2948	11" LIVE OAK	* 4554	8" LIVE OAK	4749	7" LIVE OAK	* 10567	13" OAK		
1372	10" LIVE OAK	2333	11" LIVE OAK	2949	11", 12" & 13" LIVE OAK	4555	8" & 10" LIVE OAK	4750	5" & 8" LIVE OAK	10568	17" OAK		
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1375	5", 7" & 8" LIVE OAK	2336	11" LIVE OAK	3183	9", 10" & 11" LIVE OAK	* 4560	16", 19" & 21" LIVE OAK	4754	12" LIVE OAK	10695	22" LIVE OAK		
1376	8" LIVE OAK	2353	DOUBLE 10" LIVE OAK	3184	8" LIVE OAK	* 4570	20" LIVE OAK	4759	7", 7" 9" & 9" LIVE OAK	10696	12" LIVE OAK		
1876	9" LIVE OAK	2354	9" LIVE OAK	3185	12" & 13" LIVE OAK	4577	15" ELM	4760	DOUBLE 7" LIVE OAK	10697	11" LIVE OAK		
1877	16" LIVE OAK	2355	11" LIVE OAK	3186	14" LIVE OAK	* 4578	7" LIVE OAK	4761	8" LIVE OAK	10700	16" LIVE OAK		
1878	11" LIVE OAK	2356	12" LIVE OAK	3283	TRIPLE 8" LIVE OAK	* 4579	14" LIVE OAK	4762	8" LIVE OAK"	10701	TRIPLE 10" LIVE OAK		
1882	10" LIVE OAK	2357	13" LIVE OAK	3284	10" LIVE OAK	* 4580	16" LIVE OAK	4767	8" LIVE OAK	10703	32" OAK		
1883	7" LIVE OAK	2359	8" LIVE OAK	3285	10" LIVE OAK	* 4581	14" LIVE OAK	4768	TRIPLE 7" LIVE OAK	10704	12" OAK		
1884	14" LIVE OAK	2360	7" LIVE OAK	3286	8" LIVE OAK	* 4582	8" LIVE OAK	4781	9" LIVE OAK	10705	10" LIVE OAK		
1893	12" LIVE OAK	2361	10" LIVE OAK	3287	8" LIVE OAK	* 4583	18" LIVE OAK	4782	9" & 10" LIVE OAK	10706	14" LIVE OAK		
1894	9" LIVE OAK	2362	TRIPLE 8" LIVE OAK	3288	8" LIVE OAK	4584	8" LIVE OAK	4783	9" LIVE OAK	10707	TRIPLE 16 LIVE OAK		
1895	14" LIVE OAK	2363	10" LIVE OAK	3301	11" LIVE OAK	4585	8" LIVE OAK	4784	11" LIVE OAK	10708	24" OAK		
1896	10" LIVE OAK	2386	TRIPLE 8" LIVE OAK	3302	19" LIVE OAK	* 4586	9" LIVE OAK	4799	9" LIVE OAK	* 10712	16" LIVE OAK		
1897	10" LIVE OAK	2410	10" OAK	3306	7" & 8" LIVE OAK	* 4587	13" LIVE OAK	4804	7", 8", & 9" LIVE OAK	10715	11" LIVE OAK		
1898	14" LIVE OAK	2428	8" LIVE OAK	3307	8" LIVE OAK	* 4588	11" LIVE OAK	4806	7" & 8" LIVE OAK	* 10716	32" LIVE OAK		
1901	6" & 7" LIVE OAK	2452	8" LIVE OAK	3308	10" LIVE OAK	* 4589	14" LIVE OAK	10001	DOUBLE 9" LIVE OAK	* 10717	DOUBLE 10" LIVE OAK		
1902	8" LIVE OAK	2454	TRIPLE 9" LIVE OAK	3483	12" LIVE OAK	* 4590	11" & 16" LIVE OAK	10002	11" LIVE OAK	* 10718	10" LIVE OAK		
1903	8" LIVE OAK	2591	9" LIVE OAK	3487	8" LIVE OAK	* 4591	9" LIVE OAK	10003	16" LIVE OAK	* 10719	36" LIVE OAK		
1916	9" LIVE OAK	2592	8" LIVE OAK	3661	7" LIVE OAK	* 4592	10" LIVE OAK	10004	TRIPLE 10" LIVE OAK	* 10720	16" LIVE OAK		
1917	10" LIVE OAK	2593	14" LIVE OAK	3662	9" LIVE OAK	* 4595	9" LIVE OAK	10005	12" LIVE OAK	* 10721	17" LIVE OAK		
1918	11" LIVE OAK	2598	8" LIVE OAK	3663	8" LIVE OAK	4596	22" ELM	10006	DOUBLE 9" LIVE OAK	* 10722	19" LIVE OAK		
1919	10" LIVE OAK	2599	8" LIVE OAK	3664	9" LIVE OAK	4597	12" LIVE OAK	10007	17" LIVE OAK	* 10723	TRIPLE 20" LIVE OAK		
1920	9" LIVE OAK	2600	7" LIVE OAK	3665	15" LIVE OAK	* 4598	8" LIVE OAK	10008	21" LIVE OAK	* 10728	6" LIVE OAK		
1921	11" LIVE OAK	2601	7" LIVE OAK	3666	13" LIVE OAK	* 4603	11" LIVE OAK	10009	16" LIVE OAK	* 10729	10" LIVE OAK		
1922	9" LIVE OAK	2602	10" LIVE OAK	3667	13" LIVE OAK	* 4605	12" LIVE OAK	10010	17" LIVE OAK	* 10731	11" LIVE OAK		
1923	12" LIVE OAK	2603	10" LIVE OAK	3668	DOUBLE 12" LIVE OAK	* 4606	10" LIVE OAK	10011	12" LIVE OAK	* 10732	11" LIVE OAK		
1924	10" LIVE OAK	2604	8" LIVE OAK	3669	11" LIVE OAK	* 4607	7" LIVE OAK	10012	12" LIVE OAK	* 10733	16" LIVE OAK		
1925	10" LIVE OAK	2605	DOUBLE 10" LIVE OAK	3									



DATE

REV

DESCRIPTION

DESIGNED BY:

REVIEWED BY:

DRAWN BY:

BCE

BCE Inc.
101 W. LOUIS BEND BLVD, SUITE 400
AUSTIN, TX 78728
TEL: 512-875-0400 • www.bceinc.com
TBEPE Registration No. F-1946

PATRIOT ERECTORS

CITY OF DRIPPING SPRINGS, TEXAS

STORM SEWER DETAILS

04/24/2024

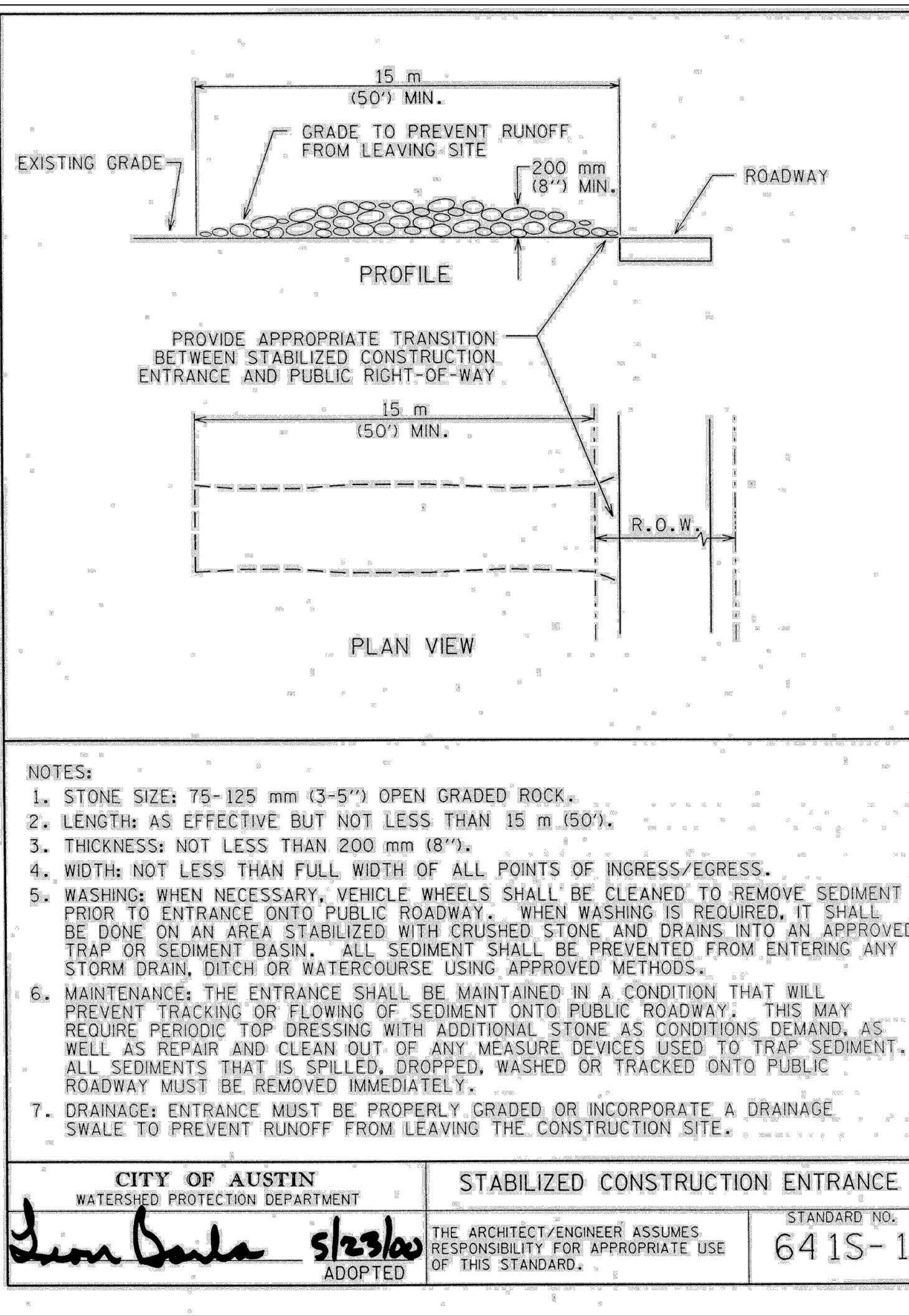
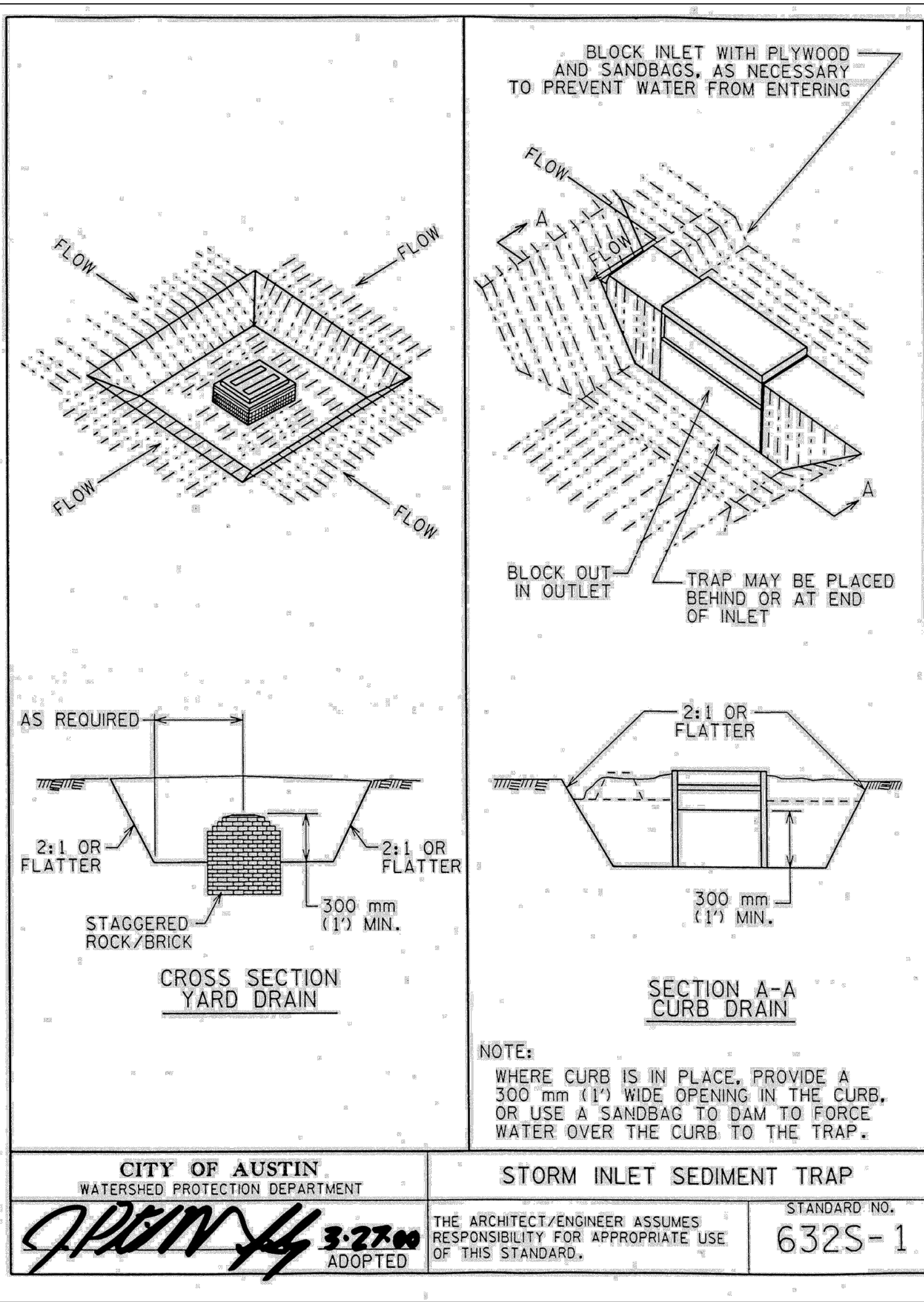
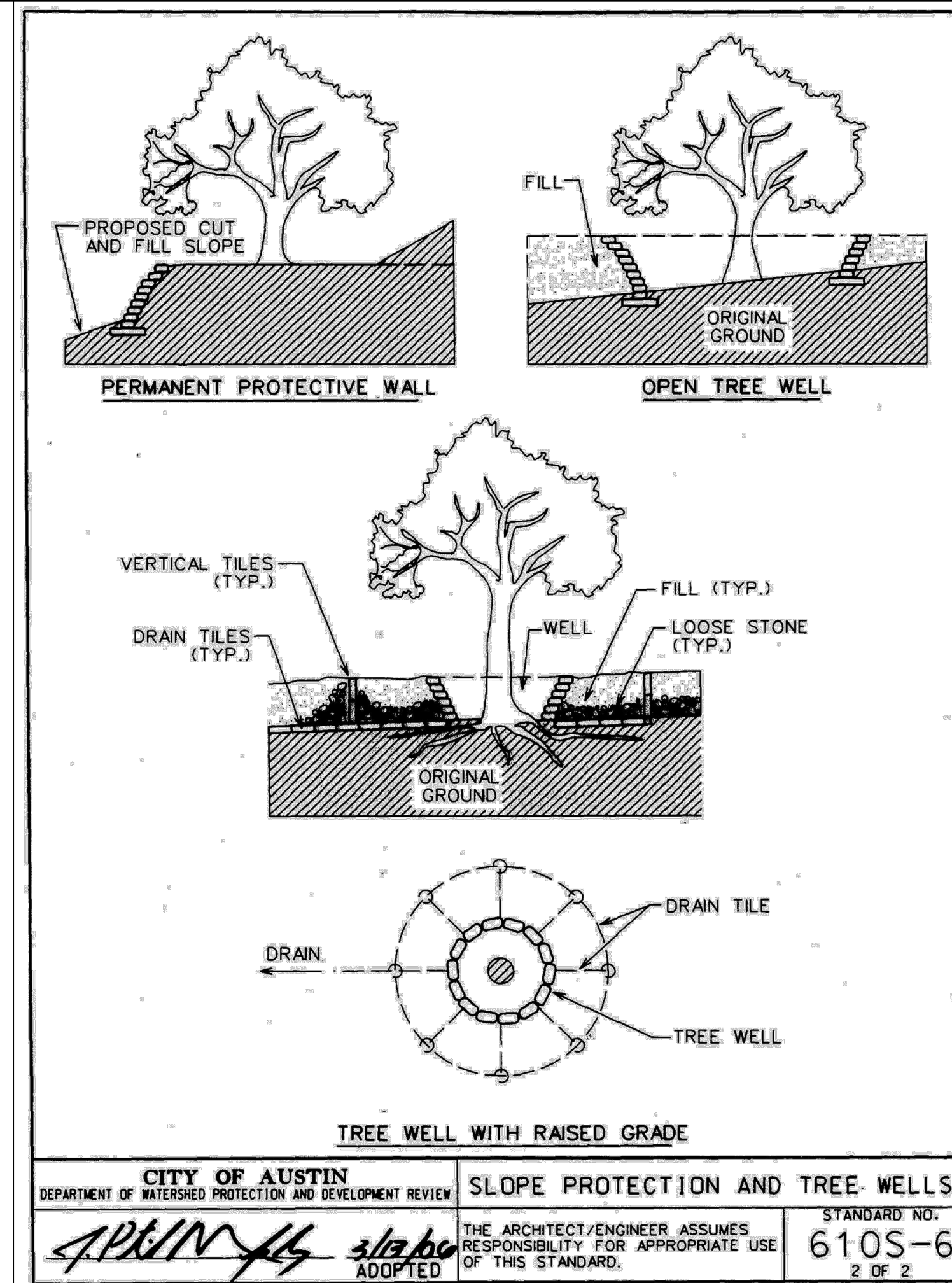
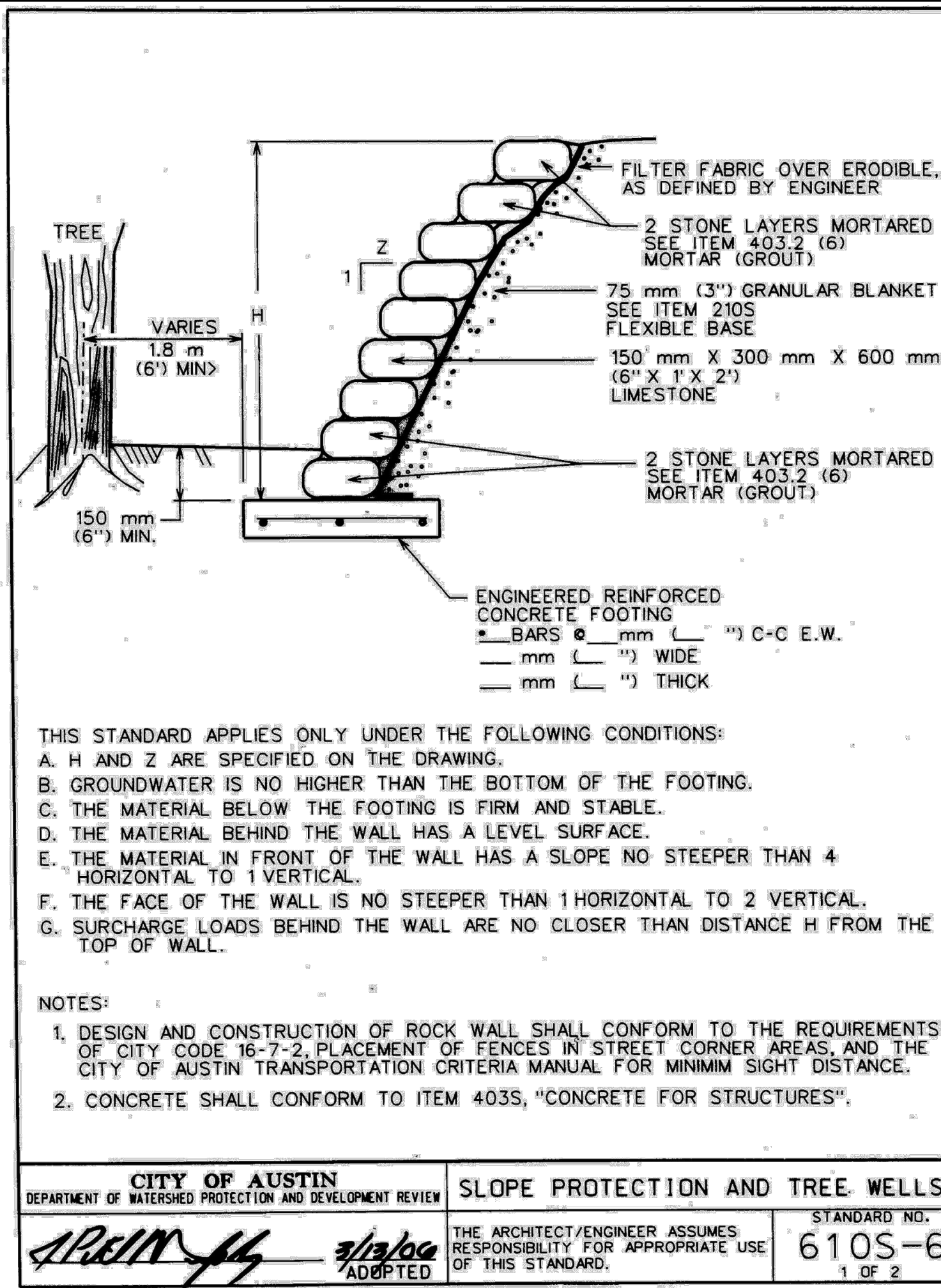
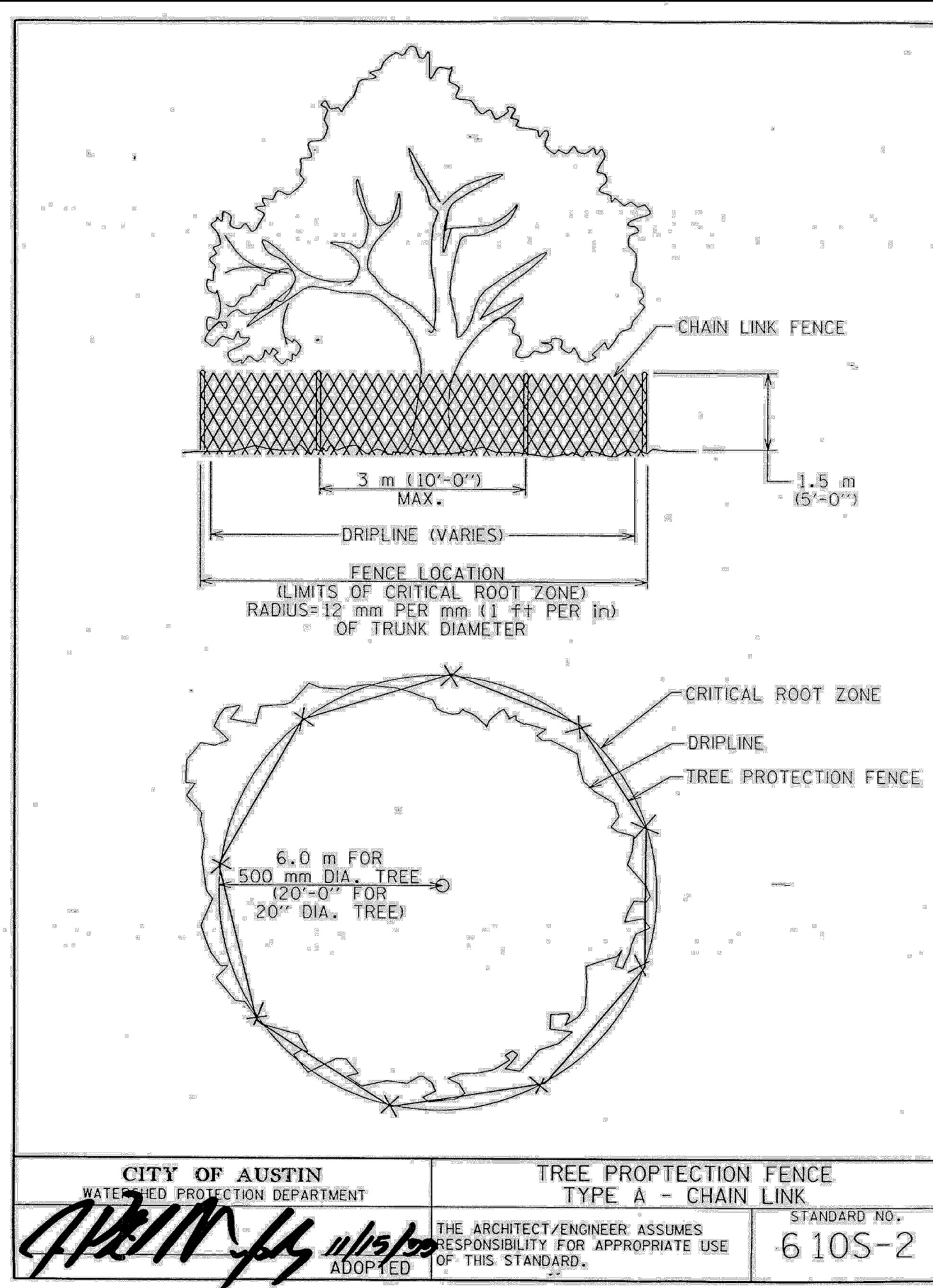
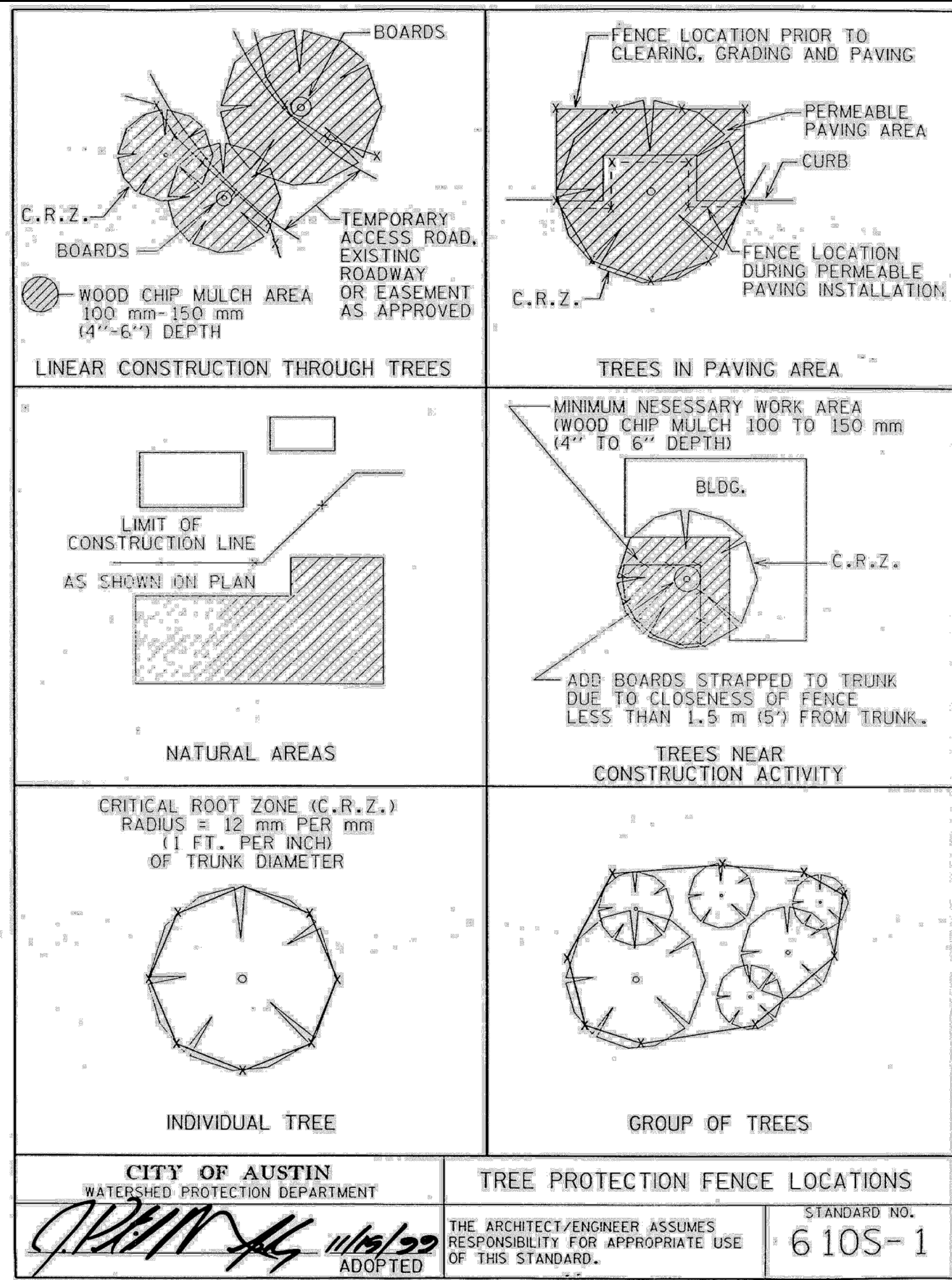
JOSEPH A. YAKLIN
107869
REGISTERED PROFESSIONAL ENGINEER

811

Know what's below.
Call before you dig.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

14 OF 15



811
Know what's below.
Call before you dig.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.