

**CONTRIBUTING ZONE  
PLAN MODIFICATION  
FOR  
CISD – CANYON LAKE HIGH SCHOOL**

**PREPARED FOR:**



**DATE: FEBRUARY 2024**

**PREPARED BY:**



- **Engineers**
- **Surveyors**
- **Planners**

**Moy Tarin Ramirez Engineers, LLC**

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MTR JOB #23184

# **CANYON LAKE HIGH SCHOOL CONTRIBUTING ZONE PLAN MODIFICATION**

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# Texas Commission on Environmental Quality

## Edwards Aquifer Application Cover Page

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### 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.

|  |             |                                 |     |   |                          |     |            |                         |                            |
|--|-------------|---------------------------------|-----|---|--------------------------|-----|------------|-------------------------|----------------------------|
| <b>1. Regulated Entity Name: Canyon Lake High School</b> |             |                                 |     | <b>2. Regulated Entity No.: 104421649</b> |                          |     |            |                         |                            |
| <b>3. Customer Name: Comal ISD</b>                       |             |                                 |     | <b>4. Customer No.: 600249825</b>         |                          |     |            |                         |                            |
| <b>5. Project Type:</b><br>(Please circle/check one)     | New         | Modification                    |     | Extension                                 | Exception                |     |            |                         |                            |
| <b>6. Plan Type:</b><br>(Please circle/check one)        | WPAP        | CZP                             | SCS | UST                                       | AST                      | EXP | EXT        | Technical Clarification | Optional Enhanced Measures |
| <b>7. Land Use:</b><br>(Please circle/check one)         | Residential | Non-residential                 |     |   | <b>8. Site (acres):</b>  |     | 88.0 acres |                         |                            |
| <b>9. Application Fee:</b>                               | \$6,500     | <b>10. Permanent BMP(s):</b>    |     |   | Vegetative Filter Strips |     |            |                         |                            |
| <b>11. SCS (Linear Ft.):</b>                             | N/A         | <b>12. AST/UST (No. Tanks):</b> |     |   | N/A                      |     |            |                         |                            |
| <b>13. County:</b>                                       | Comal       | <b>14. Watershed:</b>           |     |   | Lower Blanco 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](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.

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

| <b>San Antonio Region</b>            |   |  |                                 |   |   |
|--------------------------------------|---|--|---------------------------------|---|---|
| <b>County:</b>                       | <b>Bexar</b>  | <b>Comal</b>   | <b>Kinney</b>                   | <b>Medina</b>   | <b>Uvalde</b>   |
| Original (1 req.)                    | —   | <u>X</u>   | —                               | —   | —   |
| Region (1 req.)                      | —   | <u>X</u>   | —                               | —   | —   |
| County(ies)                          | —   | <u>X</u>   | —                               | —   | —   |
| Groundwater Conservation District(s) | <input type="checkbox"/> Edwards Aquifer Authority<br><input type="checkbox"/> Trinity-Glen Rose  | <input checked="" type="checkbox"/> Edwards Aquifer Authority  | <input type="checkbox"/> Kinney | <input type="checkbox"/> EAA<br><input type="checkbox"/> Medina | <input type="checkbox"/> EAA<br><input type="checkbox"/> Uvalde |
| City(ies) Jurisdiction               | <input type="checkbox"/> Castle Hills<br><input type="checkbox"/> Fair Oaks Ranch<br><input type="checkbox"/> Helotes<br><input type="checkbox"/> Hill Country Village<br><input type="checkbox"/> Hollywood Park<br><input type="checkbox"/> San Antonio (SAWS)<br><input type="checkbox"/> Shavano Park | <input type="checkbox"/> Bulverde<br><input type="checkbox"/> Fair Oaks Ranch<br><input type="checkbox"/> Garden Ridge<br><input type="checkbox"/> New Braunfels<br><input type="checkbox"/> Schertz | NA                              | <input type="checkbox"/> 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.

Sean Smith, P.E.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

3/8/24  
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): |

# **Original CZP Approval Letter**



Kathleen Hartnett White, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
Larry R. Soward, *Commissioner*  
Glenn Shankle, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

April 11, 2005

Mr. Roy Linnartz  
Comal Independent School District  
278 Loop 337  
New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County  
NAME OF PROJECT: Canyon Lake Area High School; Located on the South Side of Ranch Road 32, approximately 1,780' west of FM 3424; Canyon Lake Area, Texas  
TYPE OF PLAN: Request for Approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer, Edwards Aquifer Protection Program File No. 2248.00, RN104421649, Investigation No. 349738

Dear Mr. Linnartz:

The Contributing Zone Plan application for the referenced project was submitted to the San Antonio Regional Office by Slay Engineering Company, Inc. on behalf of Comal Independent School District on October 11, 2004. Final review of the CZP submittal was completed after additional material was received on January 21, 2005, February 10, 2005, March 4, 2005, March 8, 2005, and March 25, 2005. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed, and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Contributing Zone Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10% of the construction has commenced on the project or an extension of time has been requested.*

### PROJECT DESCRIPTION

The proposed school project will be located on 88.0 acres and will consist of a new high school campus. It will include classroom buildings, sports facilities, utilities, and associated driveways and parking. The proposed impervious cover for the development is approximately 22.41 acres (25.47%) of the total area of the site). Wastewater will be disposed of by an on-site wastewater treatment plant (TCEQ application number WQ0014533001).

A site investigation was conducted on January 5, 2005. The site was cleared and the project was under construction.



Mr. Roy Linnartz  
April 11, 2005  
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### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent pollution of stormwater runoff originating on-site or up-gradient of the site and potentially flowing across and off the site after construction, an on-line extended detention basin will be constructed.

The extended detention basin is designed in accordance with the 1999 edition of the TNRCC's "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices.". It is sized to capture the first 1.493 inches of stormwater run-off from 62 acres of impervious cover. Total capture volume is 324,585 cubic feet. The basin will consist of:

1. Side slopes of 3:1 or flatter for grass stabilized slopes. Slopes steeper than 3:1 must be stabilized with an appropriate slope stabilization practice.
2. Energy dissipaters will be provided at the basin inlet to reduce resuspension of accumulated sediment.
3. The outflow structure must be sized to allow for the complete drawdown of the water quality volume in 72 hours.
4. No more than 50% of the water quality volume will be drained from the facility within the first 24 hours.
5. The design manual states that the outflow structure should be fitted with a valve so that discharge from the basin can be halted in case of an accidental spill.

Chemicals related to chemistry, biology, agricultural, automotive and industrial technology laboratories will total less than the regulated quantity of 500 gallons.

### SPECIAL CONDITIONS

- I. Prior to the opening of the school, an approved copy of the TCEQ application number WQ0014533001 must be provided to the San Antonio Regional Office.
- II. Within 60 days of receiving written approval of an Edwards Aquifer protection plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page numbers of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved CZP is enclosed.
- III. Intentional discharges of sediment laden stormwater during construction are not allowed. If dewatering of excavated areas becomes necessary, the discharge will be filtered through appropriately selected temporary best management practices. These may include vegetative filter strips, sediment traps, rock berms, silt fence rings, etc.
- IV. Based on the Contributing Zone Plan application, Notice of Intent, and the January 5, 2005 on-site inspection of the project site, Commission records indicate that construction of the Canyon Lake Area High School was actually initiated on or about August 12, 2004, and that other site development and construction activities have already been conducted. These activities were conducted without the prior approval of the Contributing Zone Plan for the project, as required by



Mr. Roy Linnartz  
April 11, 2005  
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Commission rules (30 TAC Chapter 213, Subchapter B). Therefore, the applicant is hereby advised that the after-the-fact approval of this Contributing Zone Plan, as provided by this letter, shall not absolve the applicant of any prior violations of Commission rules related to this project, and shall not necessarily preclude the Commission from pursuing appropriate enforcement actions and administrative penalties associated with such violations, as provided in 30 TAC §213.10 of Commission rules.

#### STANDARD CONDITIONS

1. Pursuant to §26.136 of the Texas Water Code and the Texas Health and Safety Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

#### Prior to Commencement of Construction:

2. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project until all regulated activities are completed.
3. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
4. The applicant must provide written notification of intent to commence construction of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
5. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

#### During Construction:

6. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.



Mr. Roy Linnartz

April 11, 2005

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7. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).
8. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
9. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

10. Owners of permanent BMPs and measures must insure that the BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
11. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
12. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
13. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50% of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
14. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

Mr. Roy Linnartz  
April 11, 2005  
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If you have any questions or require additional information, please contact John Mauser of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210/403-4024.

Sincerely,



*for* Glenn Shankle  
Executive Director  
Texas Commission on Environmental Quality

GS/JKM/eg

Enclosure: Change in Responsibility for Maintenance on Permanent BMPs-Form TCEQ-10263

fo: Mr. Micheal Slay, PE, Slay Engineering Company, Inc.  
Mr. Tom Hornseth, PE, Comal County  
cc Mr. Robert J. Potts, Edwards Aquifer Authority  
TCEQ Central Records, Building F, MC 212

**CZP Modification #1  
Approval Letter**



Buddy Garcia, *Chairman*  
Larry R. Soward, *Commissioner*  
Bryan W. Shaw, Ph.D., *Commissioner*  
Mark R. Vickery, P.G., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

July 23, 2009

Mr. Thomas Bloxham  
Comal Independent School District  
1404 IH-35 North  
New Braunfels, TX 78130

Re: Edwards Aquifer, Comal County  
NAME OF PROJECT: CISD Canyon Lake High School; Located at 8555 FM 32; Fischer, Texas  
TYPE OF PLAN: Request for a Modification of an Approved Contributing Zone Plan (CZP); 30  
Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer  
Edwards Aquifer Protection Program ID No. 2248.02; Investigation No. 743245  
Regulated Entity No.: RN104421649

Dear Mr. Bloxham:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP modification for the above-referenced project submitted to the San Antonio Regional Office by Gil Engineering Associates, Inc. on behalf of Comal Independent School District on April 14, 2009. Final review of the CZP was completed after additional material was received on June 22, 2009, June 29, 2009, and July 20, 2009. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

### BACKGROUND

The project was originally approved by letter dated April 11, 2005. The school project was proposed on 88.0 acres and consisted of a new high school campus. It included classroom buildings, sports facilities, utilities, and associated driveways and parking. The proposed impervious cover for the development was approximately 22.41 acres (25.47%) of the total area of the site. Wastewater was to be disposed of by on-site Canyon Lake High School Wastewater Treatment Facilities (TCEQ application number WQ0014533001) owned by Comal Independent School District.

The permanent pollution abatement measures for the proposed project consisted of an extended detention basin designed in accordance with the 1999 edition of the TNRCC's "Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices." The basin was sized to capture the



first 1.493 inches of stormwater run-off from the 30.6 acres of impervious cover within a 62 acre catchment area. Total capture volume was to be 324,585 cubic feet. The basin consisted of:

1. Side slopes of 3:1 or flatter for grass stabilized slopes. Slopes steeper than 3:1 must be stabilized with an appropriate stabilization practice.
2. Energy dissipaters will be provided at the basin inlet to reduce resuspension of accumulated sediment.
3. The outflow structure must be sized to allow for the complete drawdown of the water quality volume in 72 hours.
4. No more than 50% of the water quality volume will be drained from the facility within the first 24 hours.
5. The design manual states that the outflow structure should be fitted with a valve so that discharge from the basin can be halted in case of an accidental spill.

Chemicals related to chemistry, biology, agricultural, automotive and industrial technology laboratories will total less than the regulated quantity of 500 gallons.

#### PROJECT DESCRIPTION

The proposed commercial project will take place at a previously approved high school facility located on approximately 88 acres. It will include the addition of a new agriculture building, a new swimming pool, and additions to the high school field house. The improvements will also include the retrofit of the existing detention basin into an extended detention device, which in addition to detention will provide water quality treatment for the site. The basin will be reconstructed to conform to the extended detention design proposed in the original CZP application approved by letter dated April 11, 2005. The impervious cover currently approved and constructed for the site is 25.93 acres. This modification will increase the impervious cover by 1.69 acres. The total impervious cover at the site will be 27.62 acres (31 percent). Wastewater will be disposed of by on-site Canyon Lake High School Wastewater Treatment Facilities (TCEQ application number WQ0014533001) owned by Comal Independent School District.

#### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, an extended detention basin, designed using the TCEQ technical guidance document Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (1999), will be retrofitted to treat stormwater runoff. The retrofit of the BMP will conform to the design approved by letter dated April 11, 2005. The required total suspended solids (TSS) treatment for this project is 24,792 pounds of TSS generated from the 27.62 acres of impervious cover. Based on April 11, 2005 approval the BMP is capable of removing 24,143 pounds of TSS. At this time an interim filter strip, installed at the basin outlet, will provide treatment of the remaining TSS balance (649 pounds of TSS). As stated by the project engineer permanent treatment measures for the 649 pounds of TSS will be provided in the next Edwards Aquifer Protection Program application submitted for the site.

The basin will capture the first 4.00 inches of stormwater run-off from the 27.62 acres of impervious cover within a 62 acre catchment area. Total required capture volume is 359,804 cubic feet (403,960 cubic feet provided). The basin will consist of:

1. Side slopes of 3:1 or flatter for grass stabilized slopes. Slopes steeper than 3:1 must be stabilized with an appropriate stabilization practice.



July 23, 2009

2. Energy dissipaters will be provided at the basin inlet to reduce resuspension of accumulated sediment.
3. The outflow structure must be sized to allow for the complete drawdown of the water quality volume in 72 hours.
4. No more than 50% of the water quality volume will be drained from the facility within the first 24 hours.
5. The design manual states that the outflow structure should be fitted with a valve so that discharge from the basin can be halted in case of an accidental spill.

The interim filter strip will consist of:

1. Top edge of the filter strip should be level to discourage forming of channel in the low spot.
2. The level spreader will be lined or constructed of impermeable materials (concrete).
3. The area to be used for the strip should be free of gullies or rills that can concentrate overland flow.
4. Filter strips should be landscaped after other portions of the project are completed and vegetation coverage should be at least 80%.

#### SPECIAL CONDITIONS

- I. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested format (Deed Recordation Affidavit, TCEQ-0625A) that you may use to deed record the approved CZP is enclosed.
- II. This modification is subject to all Special and Standard Conditions listed in the CZP approval letter dated April 11, 2005.
- III. The retrofit of the permanent pollution abatement measure (extended detention basin) shall be completed before the next school year commences.
- IV. All sediment and/or media removed from the water quality basin during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.
- V. This approval letter is being issued for regulated activities (as defined in Chapter 213) and for best management practices presented in the application. This approval does not constitute a water right permit or authorization from the TCEQ Dam Safety Program. Failure to obtain all necessary authorizations could result in enforcement actions. For more information on Water Rights Permits, please refer to:

[http://www.tceq.state.tx.us/permitting/water\\_supply/water\\_rights/wr\\_amiregulated.html](http://www.tceq.state.tx.us/permitting/water_supply/water_rights/wr_amiregulated.html)

For more information on the Dam Safety program, please refer to:

[http://www.tceq.state.tx.us/compliance/field\\_ops/dam\\_safety/damsafetyprog.html](http://www.tceq.state.tx.us/compliance/field_ops/dam_safety/damsafetyprog.html)



July 23, 2009

- VI. Permanent water quality treatment for the 649 pounds of TSS shall be provided in the next Edwards Aquifer Protection Program application or modification submitted for the site.
- VII. Regulated activities identified during the site assessment investigation constitute construction without the prior approval of the contributing zone plan as required by Commission rules (30 TAC Chapter 213). Therefore, the applicant is hereby advised that the after-the-fact approval of the development, as provided by this letter, shall not absolve the applicant of any prior violations of Commission rules related to this project, and shall not necessarily preclude the Commission from pursuing appropriate enforcement actions and administrative penalties associated with such violations, as provided in 30 TAC §213.10 of Commission rules.

STANDARD CONDITIONS

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

Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.



Mr. Thomas Bloxham  
Page 5  
July 23, 2009

During Construction:

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

After Completion of Construction:

14. Owners of permanent BMPs and measures must insure that the BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.
15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.



Mr. Thomas Bloxham  
Page 6  
July 23, 2009

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

If you have any questions or require additional information, please contact Agnieszka Hobson of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4075.

Sincerely,



Mark R. Vickery, P.G.  
Executive Director  
Texas Commission on Environmental Quality

MRV/AMH/eg

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625A  
Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Victor Gil, P.E., Gil Engineering Associates, Inc.  
Mr. Thomas H. Hornseth, P.E., Comal County  
Ms. Velma Reyes Danielson, Edwards Aquifer Authority  
TCEQ Central Records, Building F, MC 212

**CZP Modification #2  
Approval Letter**



Bryan W. Shaw, Ph.D., *Chairman*  
Buddy Garcia, *Commissioner*  
Carlos Rubinstein, *Commissioner*  
Mark R. Vickery, P.G., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

February 1, 2011

Mr. Thomas Bloxham  
Comal Independent School District  
1404 IH 35 North  
New Braunfels, TX 78130

Re: Edwards Aquifer Protection Program, Comal County

Name of Project: CISD Canyon Lake High School; Located approximately 1,300 feet northwest of the FM 32 and FM 3424 intersection; Comal County, Texas

Type of Plan: Request for the Modification to an Approved Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer

San Antonio File No. 2248.03; Investigation No. 873302; Regulated Entity No. RN104421649

Dear Mr. Bloxham:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP modification for the above-referenced project submitted to the San Antonio Regional Office by Gil Engineering Associates, Inc. on behalf of CISD on November 1, 2010. Final review of the CZP was completed after additional material was received on December 27, 2010 and January 25, 2011. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

### Background

The original CZP for Canyon Lake High School was approved on April 11, 2005 for construction on the 88 acre site with 22.41 acres of impervious cover. The construction included classroom facilities, sports facilities, utilities, driveways and parking lots. An extended detention basin was constructed to treat storm water runoff from the developed site.

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Reply To: Region 13 • 14250 Jundson Rd. • SAN ANTONIO, TEXAS 78233-4480 • 210-490-3096 • Fax 210-545-4320

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • Internet address: [www.tceq.state.tx.us](http://www.tceq.state.tx.us)

printed on recycled paper using soy-based ink



Mr. Thomas Bloxham  
February 1, 2011  
Page 2

On July 23, 2009 a CZP modification was approved to construct an agriculture building, swimming pool and additions to the field house. The impervious cover increased to 27.69 acres.

### **Project Description**

The proposed school project will have an area of approximately 8.49 acre within the larger 88 acre site. It will include the construction of an artificial turf field and bleacher expansion. The impervious cover for this project will be 2.47 acres and increase the total impervious cover to 30.16 acres (37 percent). Project wastewater will be disposed of by conveyance to the existing, onsite Canyon Lake High School Wastewater Treatment Facility (TCEQ WQ0014533001) owned by Comal Independent School District.

### **Permanent Pollution Abatement Measures**

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a sand filter basin and extended detention basin, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 27,072 pounds of TSS generated from the 30.16 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The sand filter basin will have a drainage area of 10.00 acres with 7.10 acres of impervious cover. The basin has a designed water quality volume of 63,800 cubic feet (58,421 cubic feet required) and a sand filter area of 5,106 square feet (4,868 square feet required). The basin has been designed to account for 6,925 pounds of TSS.

The extended detention has been constructed based upon the previous approvals. No physical changes will be made to the basin, however, the drainage area to the basin has been reduced to 52.92 acres with 23.06 acres of impervious cover. The basin will have a designed water quality volume of 403,960 cubic feet (298,961 cubic feet required) and will account for 20,147 pounds of TSS.

### **Special Conditions**

1. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested format (Deed Recordation Affidavit, TCEQ-0625A) that you may use to deed record the approved CZP is enclosed.
  2. This modification is subject to all Special and Standard Conditions listed in the CZP approval letter dated April 11, 2005 and July 23, 2009.
-



Mr. Thomas Bloxham  
February 1, 2011  
Page 3

3. Since the water quality basin is providing TSS reduction for the football field and bleachers by capturing storm water from the parking lot, the sand filter basin and modification to the extended detention basin must be installed and operational prior to use of the field and stadium.
4. All sediment and/or media removed from the water quality basins during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

#### Standard Conditions

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

#### *Prior to the Commencement of Construction:*

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
  5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
  6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
  7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
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Mr. Thomas Bloxham

February 1, 2011

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*During Construction:*

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

*After Completion of Construction:*

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



Mr. Thomas Bloxham

February 1, 2011

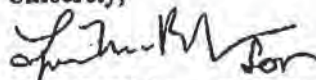
Page 5

maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

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

If you have any questions or require additional information, please contact Charly Fritz of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4065.

Sincerely,



Mark R. Vickery, P.G., Executive Director  
Texas Commission on Environmental Quality

MRV/CEF/eg

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625A  
Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Victor Gil, Gil Engineering Associates, Inc.  
Mr. Thomas Hornseth, P.E., Comal County Engineer  
Mr. Karl Dreher, General Manager, Edwards Aquifer Authority  
TCEQ Central Records, Building F, MC212

Filed and Recorded  
Official Public Records  
Joy Streater, County Clerk  
Comal County, Texas  
06/12/2012 09:50:04 AM  
DARLA 6 Page(s)  
201206020435



Joy Streater

**CZP Modification #3  
Approval Letter**



Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Jon Niermann, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

November 14, 2016

Mr. John Tucker  
Comal Independent School District  
1404 IH 35 North  
New Braunfels, TX 78130-2817

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: CISD Canyon Lake High School; Located at 8555 FM 32; Fischer, Texas

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

Regulated Entity No. RN104421649; Additional ID No. 13000227

Dear Mr. Tucker:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP Modification for the above-referenced project submitted to the San Antonio Regional Office by MTR Engineers, LLC on behalf of Comal Independent School District on August 18, 2016. Final review of the CZP was completed after additional material was received on October 12, 2016 and November 3, 2016. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

### BACKGROUND

The original CZP was approved by letter dated April 11, 2005 and permitted the construction of a new high school campus on an 88.0 acre site. The impervious cover for the project was 22.41 acres (25.47 percent) that consisted of classroom buildings, sports facilities, utilities, and associated parking and driveways. One extended detention basin was approved to treat stormwater.

The first CZP modification was approved by letter dated July 23, 2009 and included the construction of a new agriculture building, swimming pool, additions to the high school field

house, and retrofitting of the existing water quality basin. The project increased the total impervious cover on site to 27.62 acres (31.39 percent).

The second CZP modification was approved by letter dated February 1, 2011 and permitted the construction of an artificial turf field and bleacher expansion. The project increased the total impervious cover to 30.16 acres (34.27 percent). A partial sedimentation/filtration basin was approved to treat stormwater. The drainage area of the existing extended detention basin was reduced; however, no physical changes were made to the basin.

PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 88.0 acres. It will include the renovation and expansion of an existing metal building, the addition of a building, drainage improvements at various locations around the site, additional sidewalks, pavement improvements, and modifications to the two existing water quality basins. The modifications to the extended detention basin include increasing the volume of the basin, new low-flow channels, maintenance ramp, staging area, fencing, gates, and changing the earthen side-slopes on the western perimeter of the basin to concrete riprap. The partial sedimentation/filtration basin modifications will include a resizing of the filtration basin to accommodate the increased impervious cover. The project will increase the impervious cover on site to 31.12 acres (35.36 percent). Project wastewater will be disposed of by conveyance to the existing onsite Canyon Lake High School Wastewater Treatment Facility (TCEQ WQ0014533001) owned by Comal Independent School District.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, one existing extended detention basin and one existing partial sedimentation/filtration basin, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be utilized to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 27,933 pounds of TSS generated from the 31.12 acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

| TSS Removal Summary |             |                        |  |                             |                             |
|---------------------|-------------|------------------------|--|-----------------------------|-----------------------------|
| Drainage Area       | Acres (ac.) | Impervious Cover (ac.) | Treatment Measure                      | Required TSS Removal (lbs.) | Provided TSS Removal (lbs.) |
| 1                   | 52.92       | 24.02                  | Extended Detention Basin               | 21,560*                     | 20,850*                     |
| 2                   | 10.00       | 7.10                   | Partial Sedimentation/Filtration Basin | 6,373                       | 7,083*                      |
| 3                   | 25.08       | 0.00                   | Uncaptured                             | -                           | -                           |
| Total               | 88.0        | 31.12                  | -                                      | 27,933                      | 27,933                      |

\*710 pounds of TSS overtreatment provided for by partial sedimentation/filtration basin.

The extended detention basin has a designed capture volume of 328,833 cubic feet (281,180 cubic feet required).

The partial sedimentation/filtration basin has a designed capture volume of 77,551 cubic feet (74,824 cubic feet required), and a sand filter area of 13,165 square feet (6,235 square feet required).

#### SPECIAL CONDITIONS

- I. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested format (Deed Recordation Affidavit, TCEQ-0625A) that you may use to deed record the approved CZP is enclosed.
- II. This modification is subject to all Special and Standard Conditions listed in the CZP approval letter dated April 11, 2005, and subsequent modifications dated July 23, 2009, and February 1, 2011.
- III. All sediment and/or media removed from the water quality basins during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.
- IV. The permanent pollution abatement measures shall be operational prior to first occupancy of the newly constructed facilities within the measure's respective drainage area.

#### STANDARD CONDITIONS

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

#### Prior to Commencement of Construction:

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

and the name of the prime contractor with the name and telephone number of the contact person.

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

During Construction:

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

After Completion of Construction:

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

15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
17. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Mr. Joshua Vacek of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4028.

Sincerely,



Lynn Bumguardner, Water Section Manager  
San Antonio Region  
Texas Commission on Environmental Quality

LB/JV/eg

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625A  
Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Duane A. Moy, P.E., MTR Engineers, LLC  
Mr. Roland Ruiz, Edwards Aquifer Authority  
Mr. H. L. Saur, Comal Trinity Groundwater Conservation District  
Mr. Thomas H. Hornseth, P.E., Comal County Engineer  
TCEQ Central Records, Building F, MC212

**CZP Modification #4  
Approval Letter**

Jon Niermann, *Chairman*  
Emily Lindley, *Commissioner*  
Bobby Janecka, *Commissioner*  
Toby Baker, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 14, 2022

Alejandro Araujo  
Comal Independent School District  
1404 IH-35 North  
Fischer, Texas 78623

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: Comal Independent School District Canyon Lake High School; Located at 8555 Farm to Market 32, Fischer, TX

TYPE OF PLAN: Request for Modification of an Approved Contributing Zone Plan (CZPMOD); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer

Regulated Entity No. RN104421649; Additional ID No. 13001576

Dear Mr. Araujo:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP Modification for the above-referenced project submitted to the San Antonio Regional Office by MTR Engineers on behalf of Comal Independent School District on July 29, 2022. Final review of the CZP Modification was completed after additional material was received on September 15, 2022, and October 3, 2022. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected, and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed, and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

### BACKGROUND

The original CZP application was approved by letter dated April 11, 2005, permitted the construction of a new high school campus on an 88.0-acre site. The impervious cover for the project was 22.41-acres (25.47 percent) and one (1) extended detention basin was approved to treat the stormwater.

Subsequent modifications were approved on July 23, 2009, February 1, 2011, and November 14, 2016, for regulated entity RN104421649.

### PROJECT DESCRIPTION

The proposed high school project will have an area of approximately 88-acres. It will include the construction of two (2) new buildings, and associated parking and flatwork. The impervious cover will be 0.69-acres, increasing the total impervious cover to 31.81-acres (36.14 percent). Project wastewater will be disposed of by the Canyon Lake High School Wastewater Treatment Facility owned by Comal Independent School District.

### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a Jellyfish and engineered vegetative filter strip, designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 619 pounds of TSS generated from the additional 0.69-acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

### SPECIAL CONDITIONS

- I. This modification is subject to all Special and Standard Conditions listed in the CZP approval letter dated April 11, 2005, July 23, 2009, February 1, 2011, and November 14, 2016
- II. All permanent pollution abatement measures shall be operational prior to occupancy of the facility.
- III. All sediment and/or media removed from the permanent pollution abatement measures during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

### STANDARD CONDITIONS

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

#### Prior to Commencement of Construction:

4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.



6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.
7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

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

After Completion of Construction:

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

15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
17. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Drew Evans of the Edwards Aquifer Protection Program of the San Antonio Regional Office at (210) 403-4053.

Sincerely,



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

LIB/de

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

cc: Mr. Sean Smith, P.E., Moy Tarin Ramirez Engineers, LLC.

# Modification of a Previously Approved Contributing Zone Plan

## Texas Commission on Environmental Quality

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

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

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

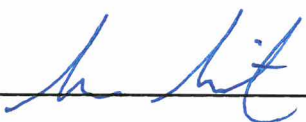
## Signature

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

Print Name of Customer/Agent: Sean Smith, P.E.

Date: 3/8/24

Signature of Customer/Agent:



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## Project Information

1. Current Regulated Entity Name: CISD Canyon Lake High School  
Original Regulated Entity Name: CISD Canyon Lake High School  
Assigned Regulated Entity Number(s) (RN): 104421649  
Edwards Aquifer Protection Program ID Number(s): \_\_\_\_\_  
 The applicant has not changed and the Customer Number (CN) is: 600249825  
 The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
2.  **Attachment A: Original Approval Letter and Approved Modification Letters.** A copy of the original approval letter and copies of any modification approval letters are attached.
3. A modification of a previously approved plan is requested for (check all that apply):

- Any physical or operational modification of any best management practices or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
- Any change in the nature or character of the regulated activity from that which was originally approved;
- A change that would significantly impact the ability to prevent pollution of the Edwards Aquifer and hydrologically connected surface water; or
- Any development of land previously identified in a contributing zone plan as undeveloped.

4.  Summary of Proposed Modifications (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

| <b><i>CZP Modification</i></b> | <b><i>Approved Project</i></b> | <b><i>Proposed Modification</i></b> |
|--------------------------------|--------------------------------|-------------------------------------|
| <b><i>Summary</i></b>          |                                |                                     |
| Acres                          | <u>SEE ATTACHED SUMMARY</u>    | <u>SEE ATTACHED SUMMARY</u>         |
| Type of Development            | <u>FOR INFO</u>                | <u>FOR INFO</u>                     |
| Number of Residential          | _____                          | _____                               |
| Lots                           | _____                          | _____                               |
| Impervious Cover (acres)       |                                |                                     |
| Impervious Cover (%)           | _____                          | _____                               |
| Permanent BMPs                 | _____                          | _____                               |
| Other                          | _____                          | _____                               |
|                                | _____                          | _____                               |
| <b><i>AST Modification</i></b> |                                |                                     |
| <b><i>Summary</i></b>          |                                |                                     |
| Number of ASTs                 | _____                          | _____                               |
| Other                          | _____                          | _____                               |
| <b><i>UST Modification</i></b> |                                |                                     |
| <b><i>Summary</i></b>          |                                |                                     |
| Number of USTs                 | _____                          | _____                               |
| Other                          | _____                          | _____                               |

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

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

6.  **Attachment C: Current Site Plan of the Approved Project.** A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
- The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
- The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
- The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
- The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
- The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.
7.  Acreage has not been added to or removed from the approved plan.
- Acreage has been added to or removed from the approved plan and is discussed in *Attachment B: Narrative of Proposed Modification*.
8.  Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

**SUMMARY OF PREVIOUS & PROPOSED MODIFICATIONS**

| <b><i>CZP Modification Summary</i></b> | <b><i>Pre-June 1, 1999</i></b> | <b><i>Original CZP</i></b> | <b><i>Proposed Modification 1</i></b>      | <b><i>Proposed Modification 2</i></b> | <b><i>Proposed Modification 3</i></b> | <b><i>Proposed Modification 4</i></b> |
|--|--------------------------------|----------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|
| Acres                                  | 88.00                          | 88.00                      | 88.00                                      | 88.00                                 | 88.00                                 | 88.00                                 |
| Type of Development                    | Undeveloped                    | High School                | High School                                | High School                           | High School                           | High School                           |
| Number of Residential Lots             | N/A                            | N/A                        | N/A  | N/A                                   | N/A                                   | N/A                                   |
| Total Impervious Cover (acres)         | N/A                            | 22.41                      | 27.62                                      | 30.16                                 | 31.12                                 | 31.81                                 |
| Impervious Cover (%)                   | N/A                            | 25.47%                     | 31.39%                                     | 34.27%                                | 35.36%                                | 36.14%                                |
| Permanent BMPs                         | N/A                            | Extended Detention         | Extended Detention<br>Interim Filter Strip | Sand Filter<br>Extended               | Extended Detention                    | Jellyfish<br>Vegetative Filter        |
| Other                                  | N/A                            | N/A                        | N/A  | N/A                                   | N/A                                   | N/A                                   |
| Approval Letter Date                   | N/A                            | April 11, 2005             | July 23, 2009                              | February 1, 2011                      | November 14, 2016                     | October 14, 2022                      |
|  |                                |                            | <b><i>Proposed Modification 5</i></b>      |                                       |                                       |                                       |
|  |                                |                            | 88.00                                      |                                       |                                       |                                       |
|  |                                |                            | High School                                |                                       |                                       |                                       |
|  |                                |                            | N/A  |                                       |                                       |                                       |
|  |                                |                            | 32.99                                      |                                       |                                       |                                       |
|  |                                |                            | 37.49%                                     |                                       |                                       |                                       |
|  |                                |                            | Vegetative Filter<br>Strips                |                                       |                                       |                                       |
|  |                                |                            | N/A  |                                       |                                       |                                       |
|  |                                |                            | TBD  |                                       |                                       |                                       |

## **ATTACHMENT B**

### **NARRATIVE OF PROPOSED MODIFICATION**

The proposed project is located at the site of the existing Canyon Lake High School, located at 8555 Farm to Market 32, Fischer, TX 78623. The project will be providing a new maintenance drive and a new golf training facility. In addition, the application of a new seal coat on existing asphalt pavement surfaces will be included with this project.

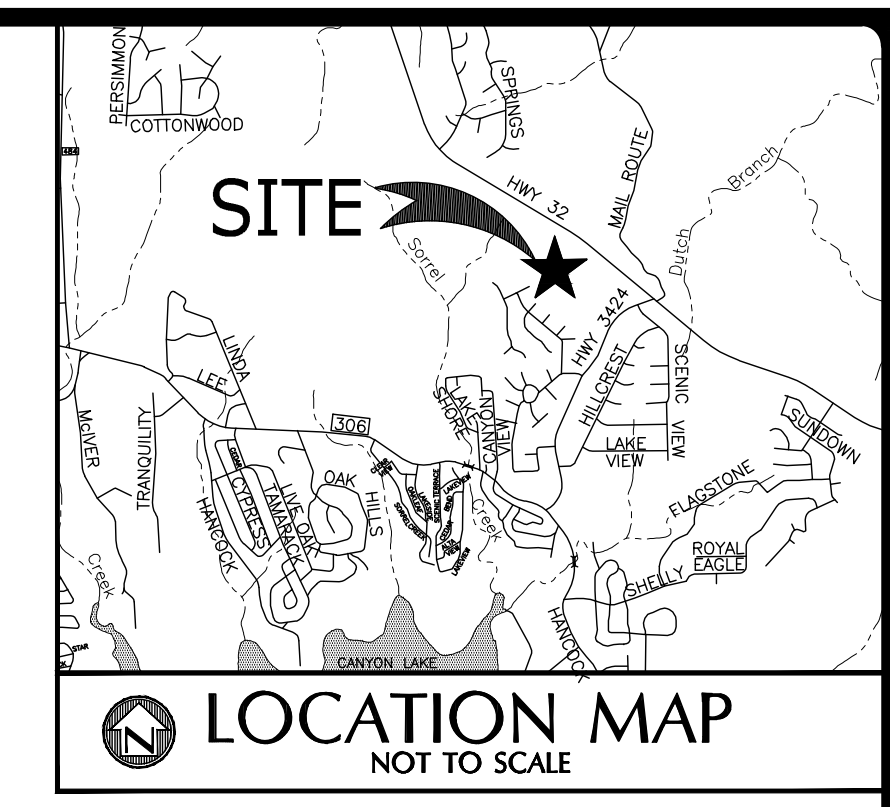
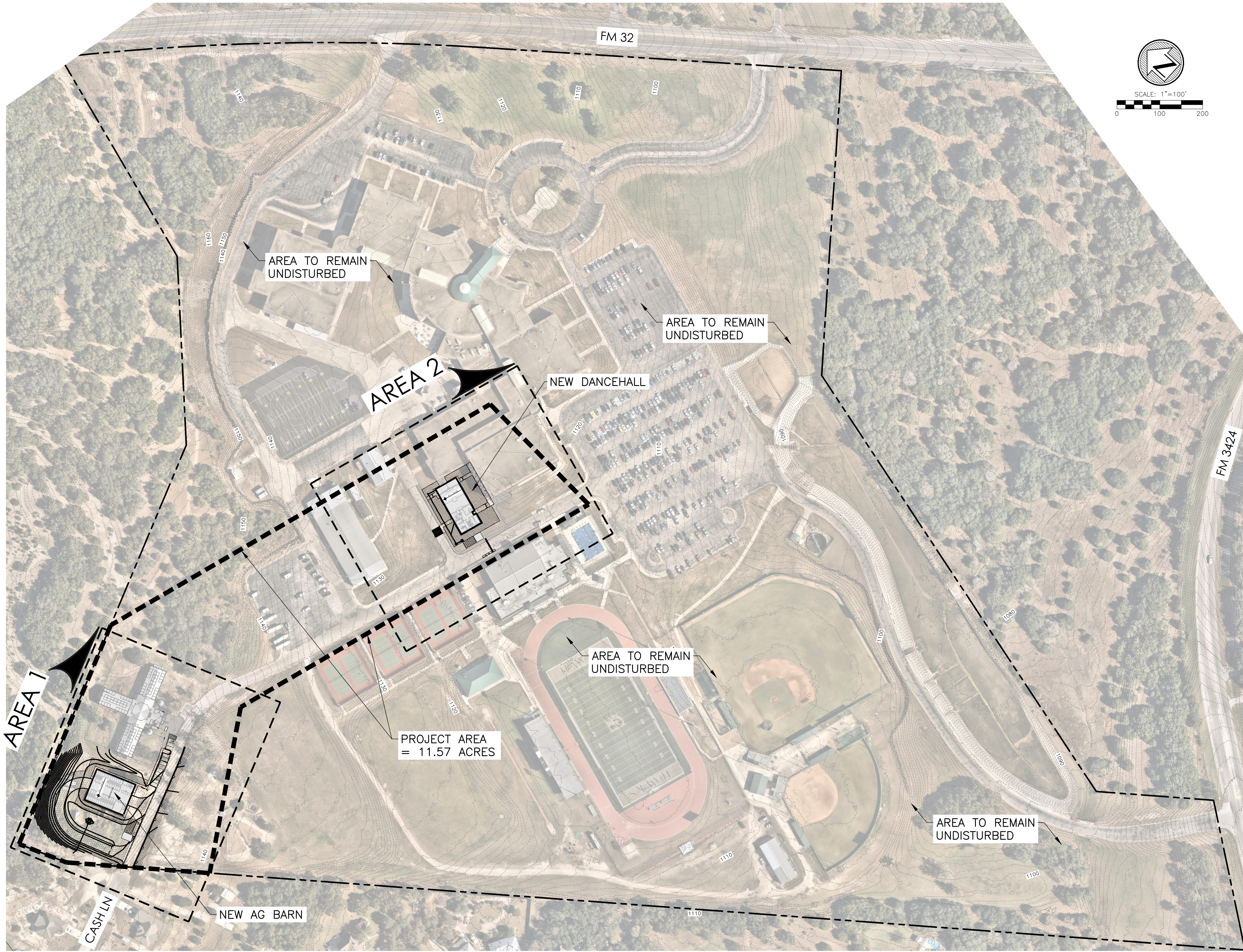
There are no changes to the overall drainage patterns due to the proposed additions, renovations, and drainage improvements described above.

A Contributing Zone Plan (CZP) for the site was approved on April 11, 2005 (EAPP#2248.00) for 22.41 acres of impervious cover. CZP Modification #1 was approved on July 23, 2009, for a 5.21-acre increase in impervious cover. CZP Modification #2 was approved on February 1, 2011, for a 2.54-acre increase in impervious cover. CZP Modification #3 was approved on November 14, 2016, for a 0.96-acre increase in impervious cover. CZP Modification #4 was approved on October 14, 2022, for a 0.69-acre increase in impervious cover.

The proposed improvements at Canyon Lake High School will result in a 1.18-acre increase in impervious cover, for a site total of 32.99 acres. In terms of TSS to be removed, there is an increase of 1,059 pounds for a site total required removal of 29,612 pounds.

The proposed project will treat the 1.18-acre increase in impervious cover with engineered vegetative filter strips. The existing and fully approved permanent BMP's will not be altered with this project.





**LEGEND:**

|  |                          |
|--|--------------------------|
|  | PROPERTY LINE            |
|  | EXISTING CONTOUR         |
|  | VEGETATIVE FILTER STRIPS |

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
CONTRIBUTING ZONE PLAN  
GENERAL CONSTRUCTION NOTES

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
  - THE NAME OF THE APPROVED PROJECT;
  - THE ACTIVITY START DATE; AND
  - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTERS ON-SITE.
3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
4. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
6. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
9. IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14<sup>TH</sup> DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21<sup>ST</sup> DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14<sup>TH</sup> DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
10. THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
  - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
  - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
  - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
11. THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
  - A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPs) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERRAS, SILT FENCES, AND DIVERSIONARY STRUCTURES;
  - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
  - C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
  - D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

|   |  |
|---|--|
| Austin Regional Office<br>12100 Park 35 Circle, Building A<br>Austin, Texas 78753-1806<br>Phone(210) 339-2929<br>Fax (512) 339-3795 | San Antonio Regional Office<br>14250 Judson Road<br>San Antonio, Texas 78233-4480<br>Phone(210) 460-3096<br>Fax (210) 545-4329 |
|---|--|

**GENERAL NOTES:**

1. PROVIDE BAGGED GRAVEL INLET FILTERS AT ALL EXPOSED DRAINAGE STRUCTURES.
2. SOIL DISTURBANCES WILL OCCUR OVER PARTS OF SITE AS INDICATED ON PLAN.
3. LOCATIONS OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS ARE LABELED.
4. THESE ARE THE TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES.
5. SOIL STABILIZATION PRACTICES SHALL OCCUR OVER THE ENTIRE SITE WITH THE USE OF PAVEMENT, BUILDINGS, SIDEWALKS, GRASS SOD, GRASS SEEDING AND MULCH.
6. THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER.

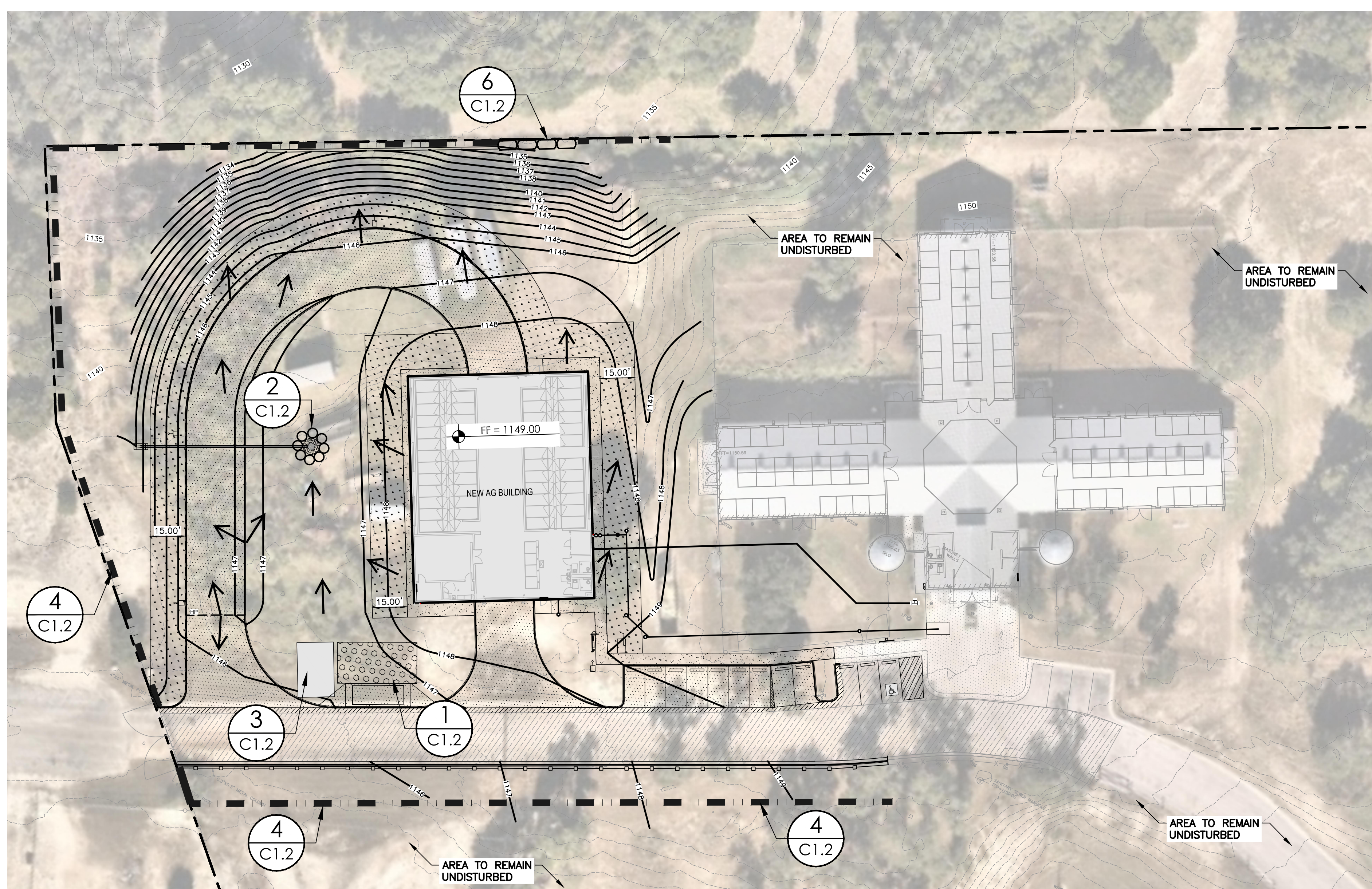
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• Engineers  
 • Surveyors  
 • Planners  
**MTR**  
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 TPELTS: ENGINEERING F-5297/SURVEYING F-10151500  
 12779 CHAMBERLAIN PATH, SUITE 100 TEL: (210) 698-5081  
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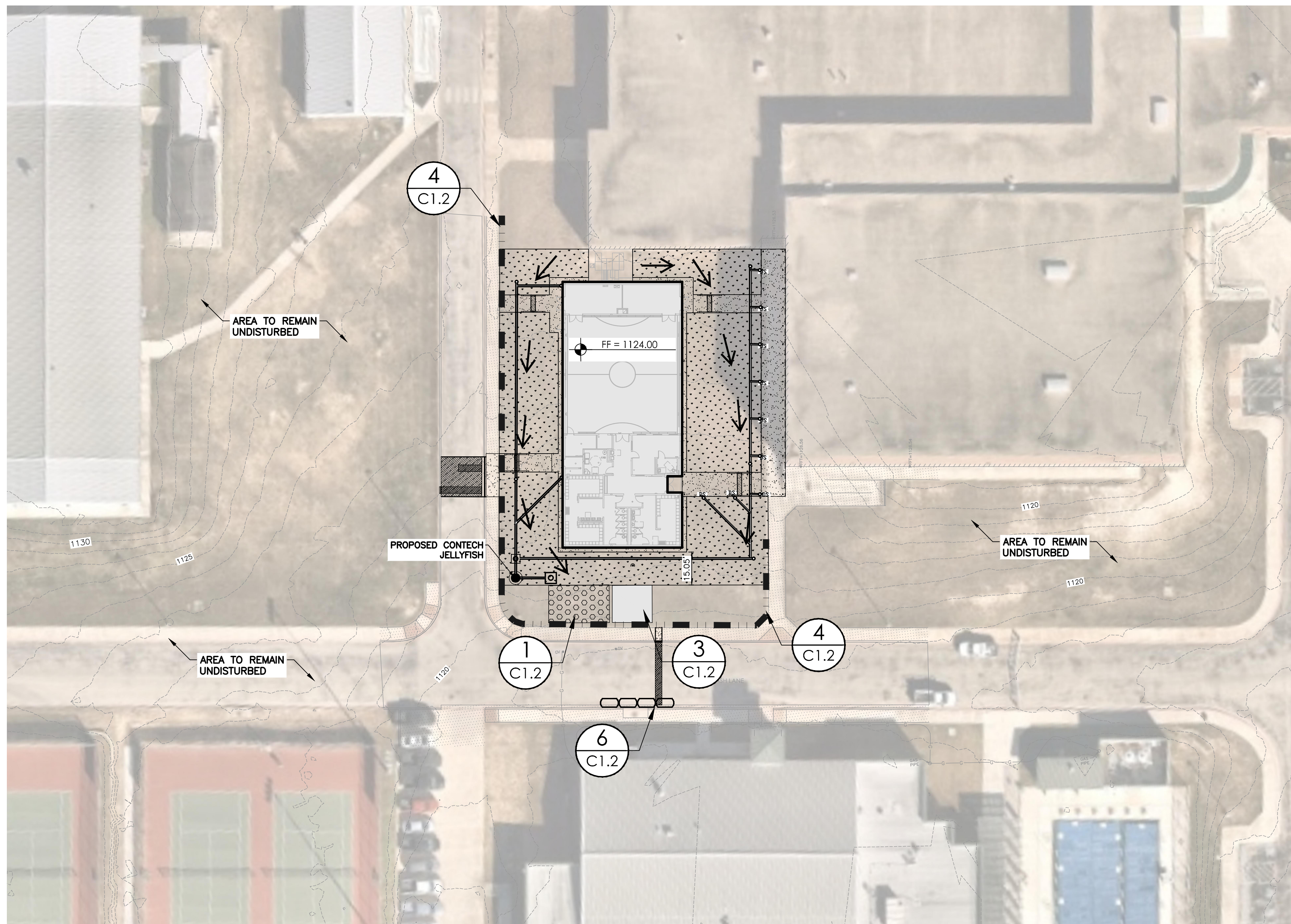


CANYON LAKE HIGH SCHOOL  
CONTRIBUTING ZONE SITE PLAN

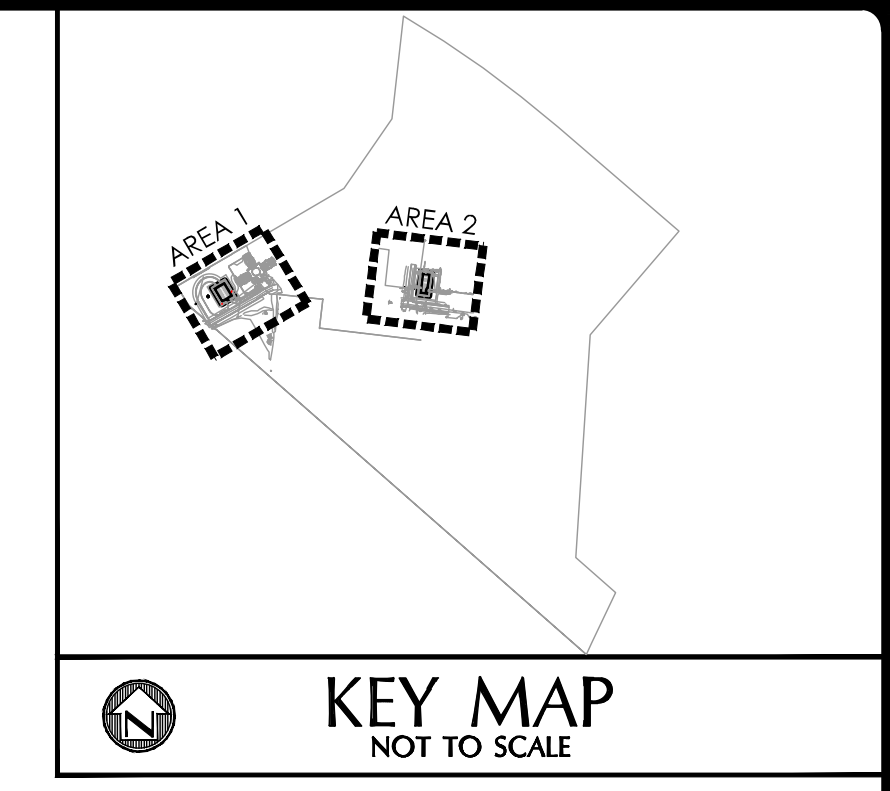




AREA 1



AREA 2



**LEGEND:**

|  |                                |
|--|--------------------------------|
|  | PROPERTY LINE                  |
|  | EXISTING CONTOUR               |
|  | PROPOSED CONTOUR               |
|  | SILT FENCE                     |
|  | CHAINLINK FENCE                |
|  | GRAVEL INLET FILTER            |
|  | SAND/GRAVEL BAG                |
|  | STABILIZED CONSTRUCTION EXIT   |
|  | NEW FLEXIBLE PAVEMENT          |
|  | NEW RIGID PAVEMENT             |
|  | NEW CONCRETE SIDEWALK/FLATWORK |
|  | CONSTRUCTION STAGING AREA      |
|  | CONCRETE WASHOUT PIT           |
|  | ENGINEERED VEGETATIVE STRIPS   |
|  | DRAINAGE FLOW ARROW            |

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
CONTRIBUTING ZONE PLAN  
GENERAL CONSTRUCTION NOTES

- A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
  - THE NAME OF THE APPROVED PROJECT;
  - THE ACTIVITY START DATE; AND
  - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
- ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ON-SITE.
- NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
- PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
- SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFF-SITE.
- ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
- IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14<sup>TH</sup> DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21<sup>ST</sup> DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF BROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14<sup>TH</sup> DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
- THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
  - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
  - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
  - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
  - ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPs) OR STRUCTURES), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERRIS, SILT FENCES, AND DIVERSIONARY STRUCTURES;
  - ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
  - ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
  - ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

Austin Regional Office  
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San Antonio Regional Office  
14250 Judson Road  
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GENERAL NOTES:

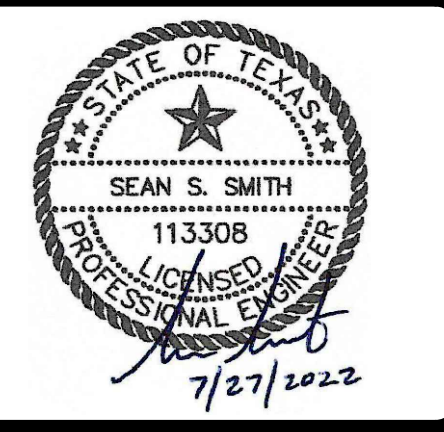
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- THERE ARE NO LOCATIONS WHERE STORMWATER DISCHARGES TO SURFACE WATER.

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Engineers  
Surveyors  
Planners

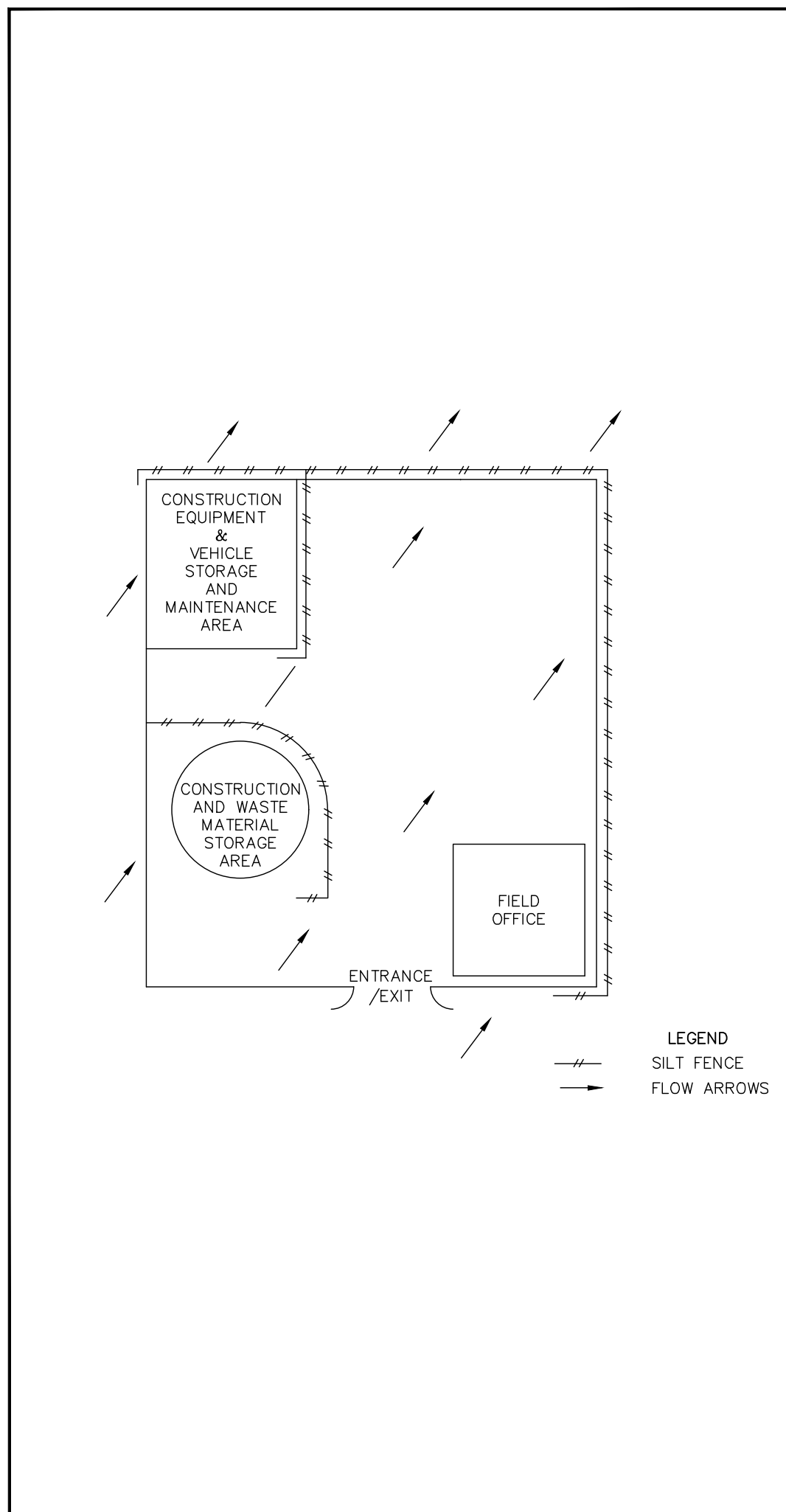
**MTR**

Moy Tarin Ramirez Engineers, LLC  
TPELTS: ENGINEERING F-5297/SURVEYING F-10115100  
12779 CHARRON PATH, SUITE 100 TEL: (210) 698-5051  
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5065

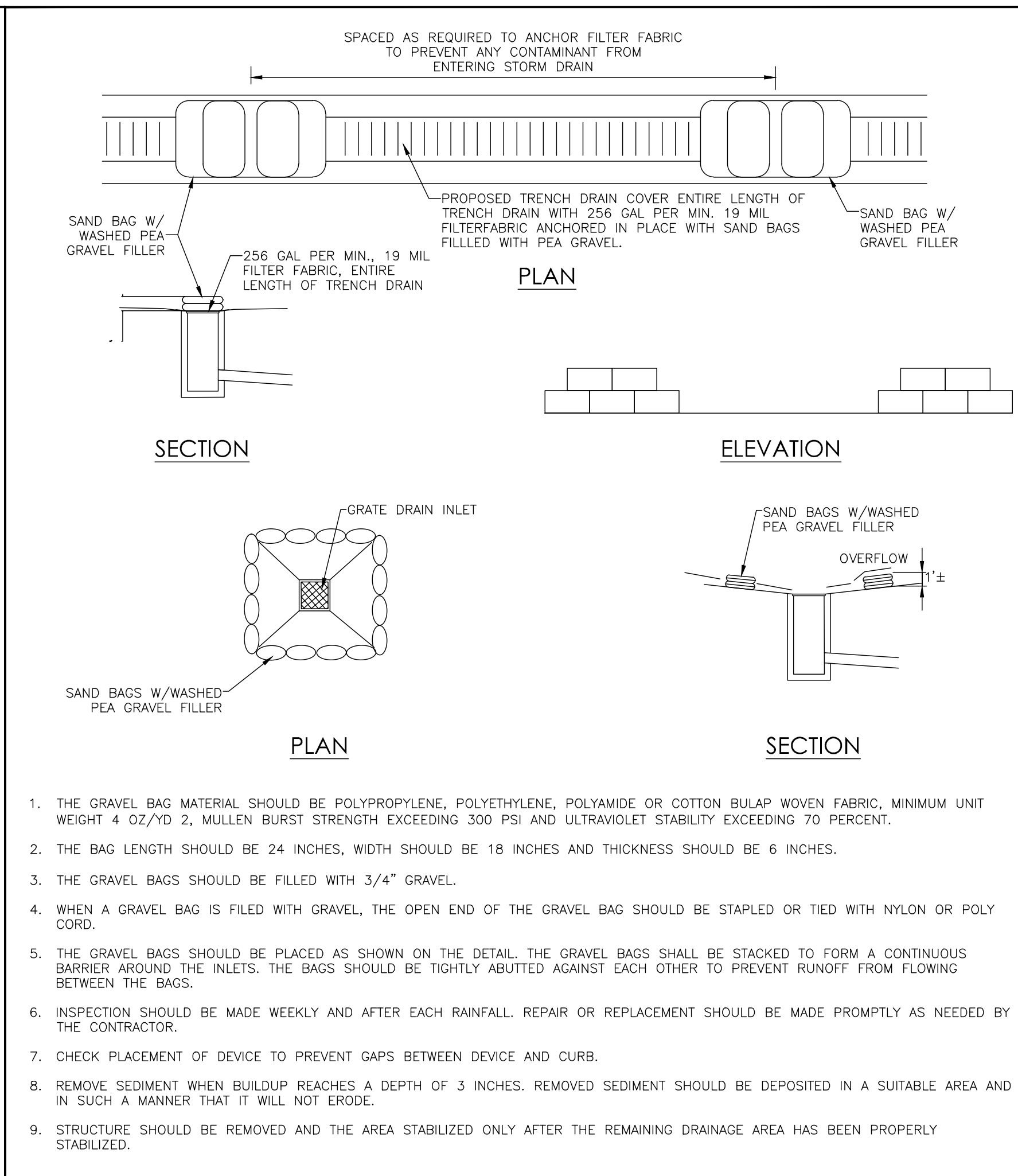


CANYON LAKE HIGH SCHOOL  
CONTRIBUTING ZONE SITE PLAN

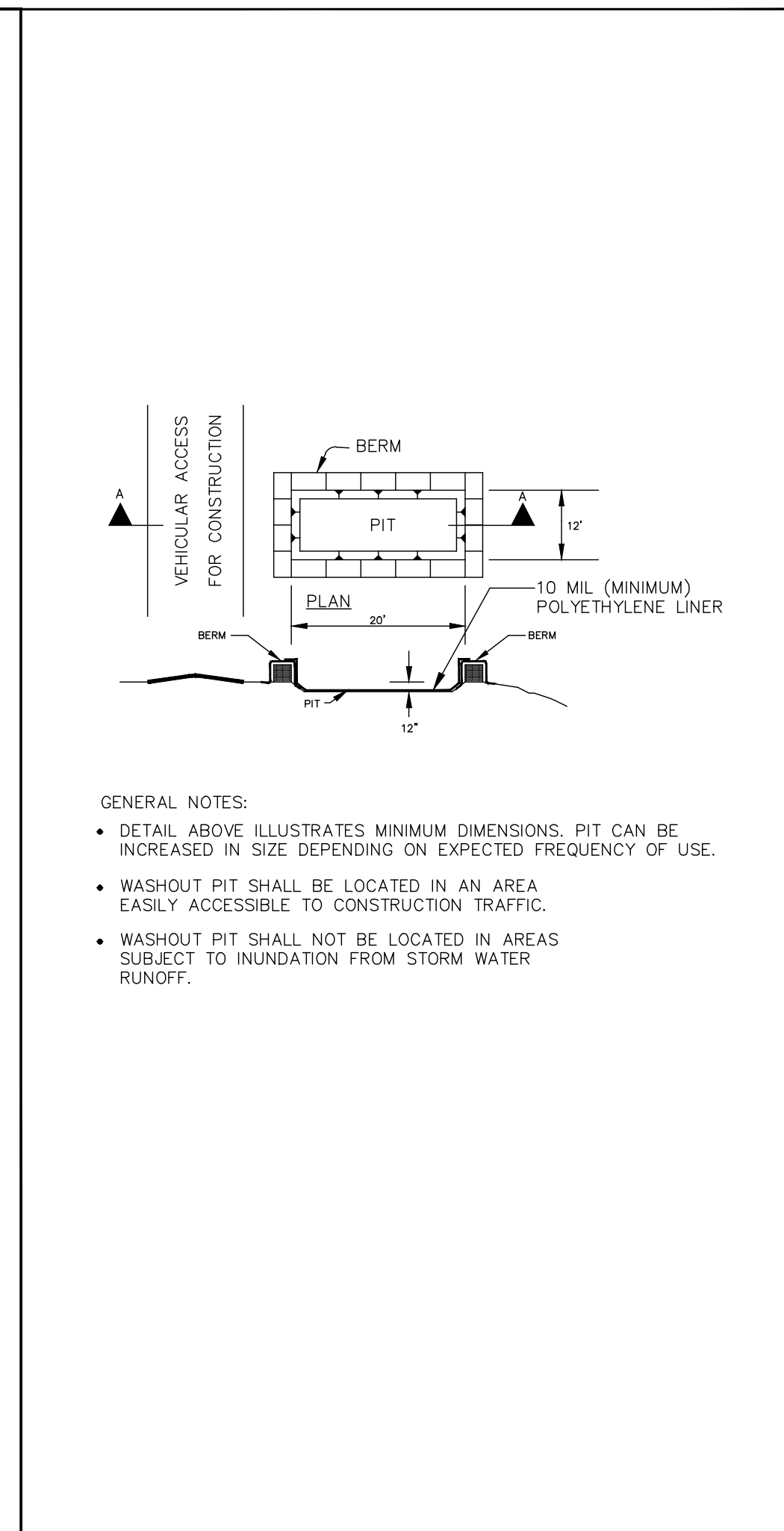




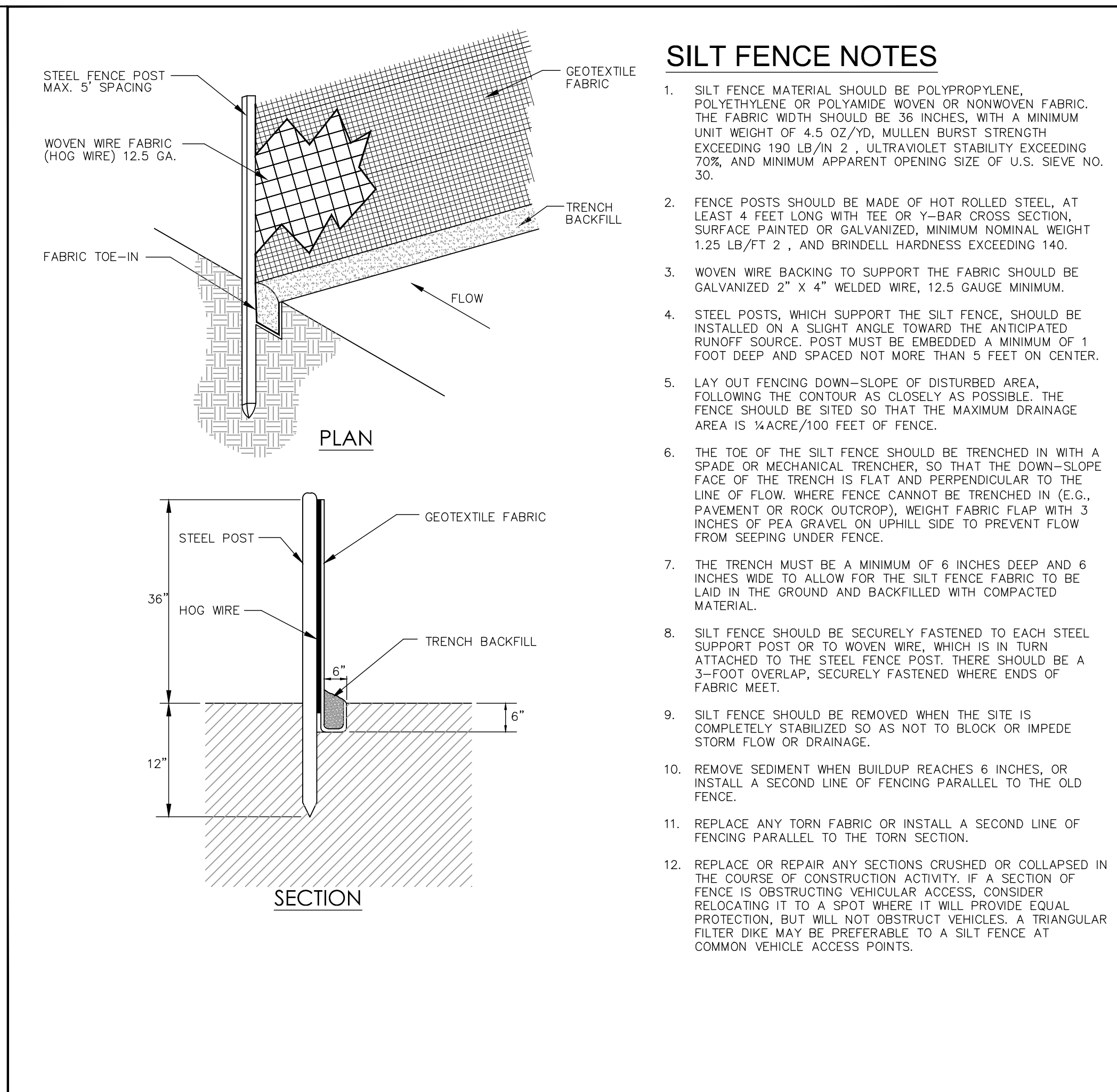
**1 CONSTRUCTION STAGING AREA**  
SCALE: NONE



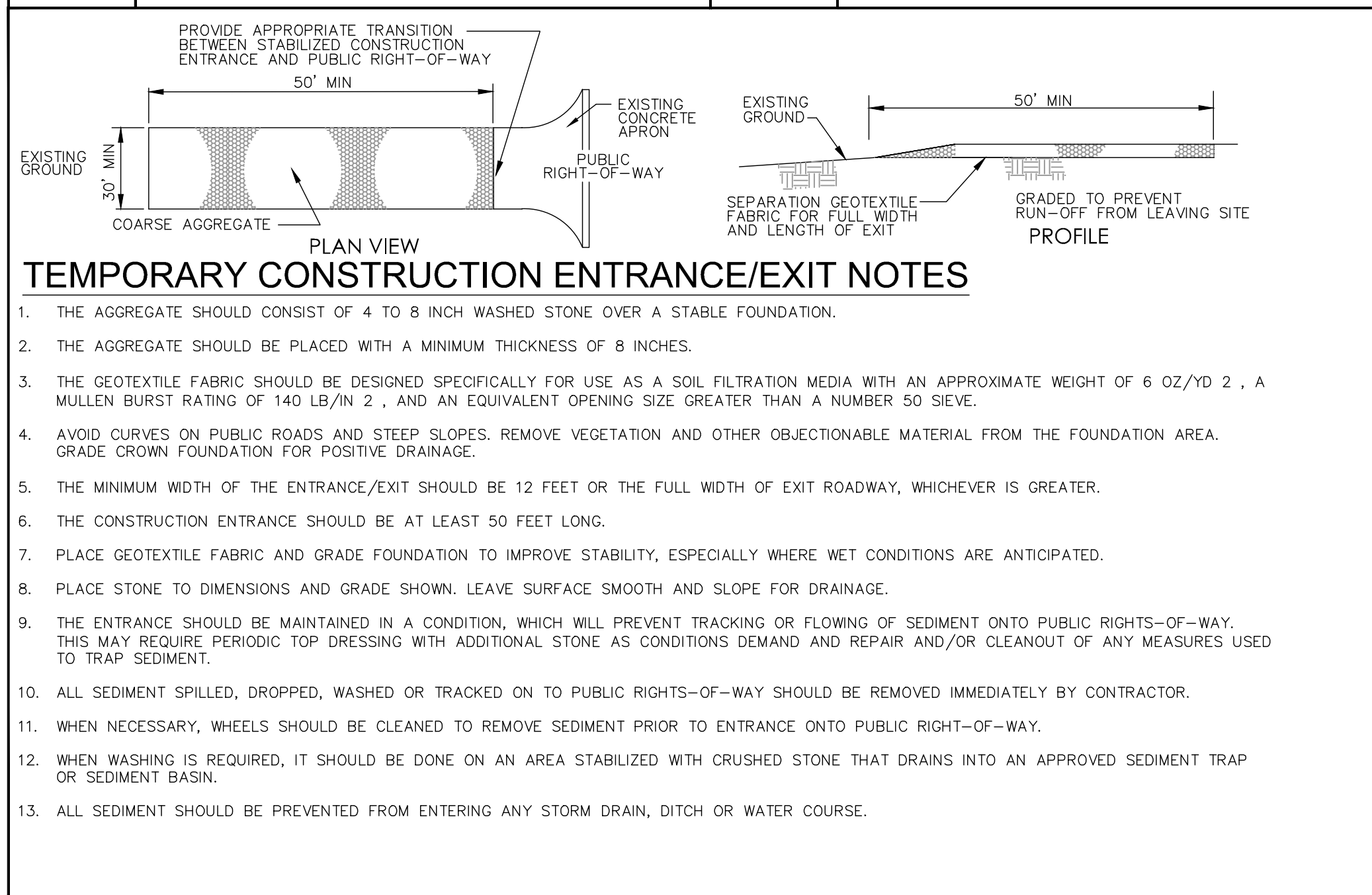
**2 BAGGED GRAVEL INLET FILTER**  
SCALE: NONE



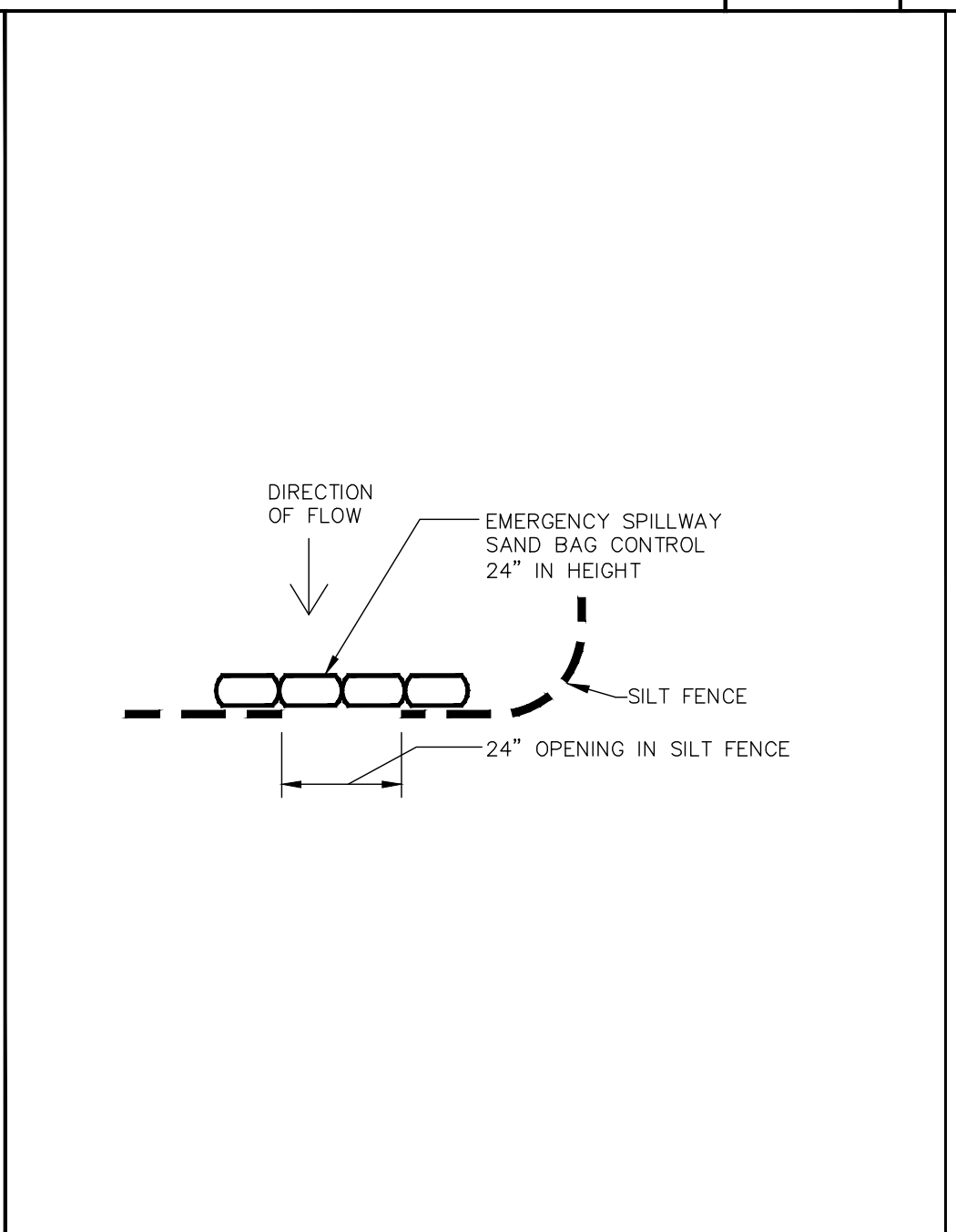
**3 CONCRETE TRUCK WASHOUT PIT**  
SCALE: NONE



**4 SILT FENCE DETAIL**  
SCALE: NONE



**5 STABILIZED CONSTRUCTION ENTRANCE / EXIT**  
SCALE: NONE



**6 PLAN - SAND BAG CONTROL DETAIL**  
SCALE: NONE

**SILT FENCE NOTES**

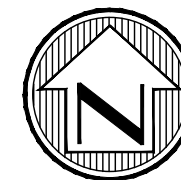
- SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/N 2 , ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
- FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM NOMINAL WEIGHT 1.25 LB/FT 2 , AND BRINELL HARDNESS EXCEEDING 140.
- WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12.5 GAUGE MINIMUM.
- STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1 FOOT DEEP AND SPACED NOT MORE THAN 5 FEET ON CENTER.
- LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS 1/4 ACRE/100 FEET OF FENCE.
- THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROPS), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- REMOVE SEDIMENT WHEN BUILDUP REACHES 8 INCHES, OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE OLD FENCE.
- 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.

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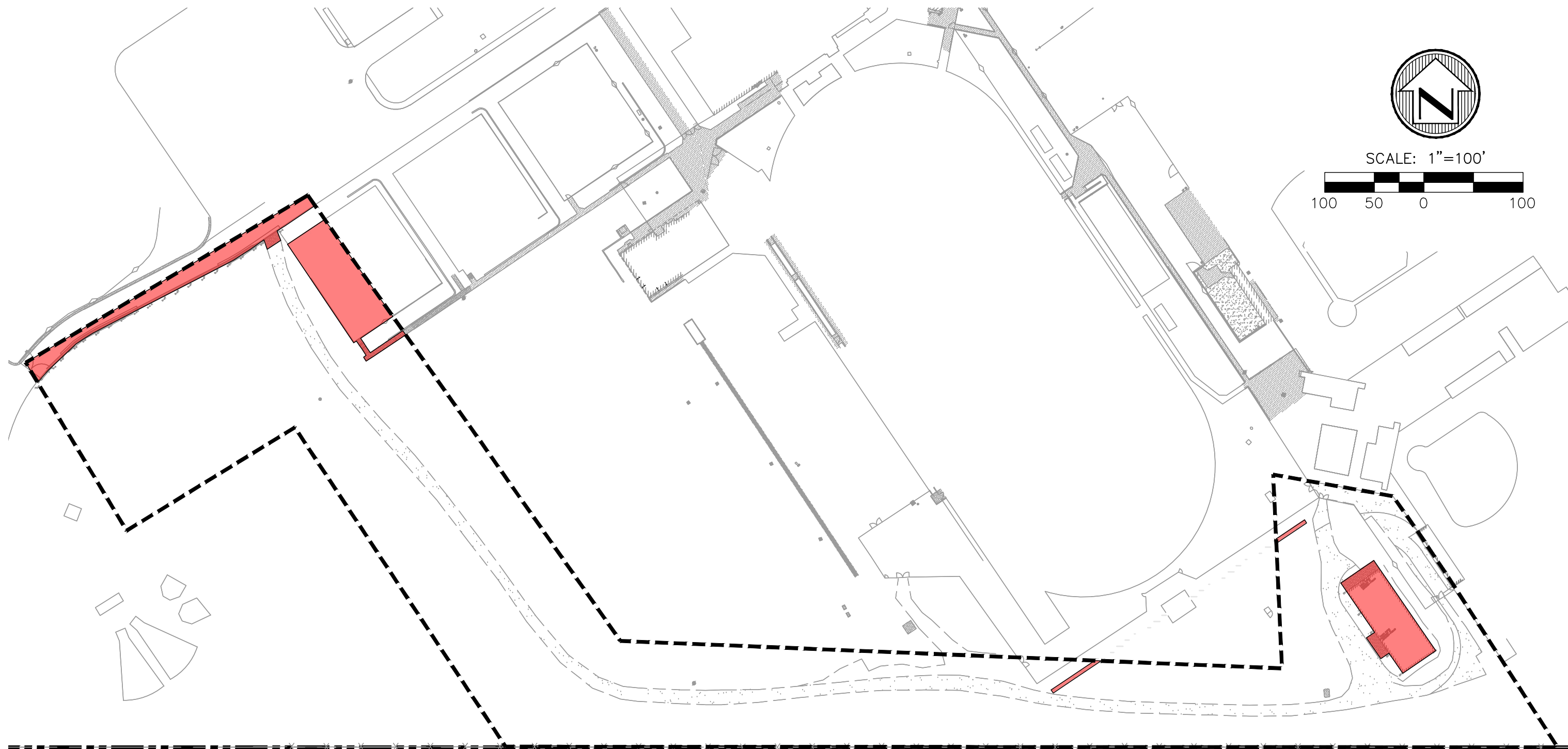
• Engineers  
 • Surveyors  
 • Planners  
**MTR**  
**Moy Tatin Ramirez Engineers, LLC**  
 TPELS: ENGINEERING F-52877/SURVEYING F-10131500  
 12779 CHARRON PATH, SUITE 100 TEL: (210) 698-5051  
 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085



CANYON LAKE HIGH SCHOOL  
DETAILS



SCALE: 1"=100'  
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- Engineers
- Surveyors
- Planners

**Moy Tarin Ramirez Engineers, LLC**

TBPELS ENGINEERING F-5287/SURVEYING F-10131500  
12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051  
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

**LEGEND**

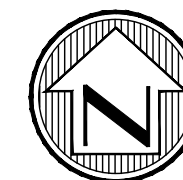
- PROPERTY BOUNDARY
- PROJECT LIMITS
- IMPERVIOUS COVER

DISTURBED PROJECT AREA = 241,682 S.F. (5.55 AC.)  
EXISTING IMPERVIOUS COVER = 15,817 S.F. (0.36 AC.)

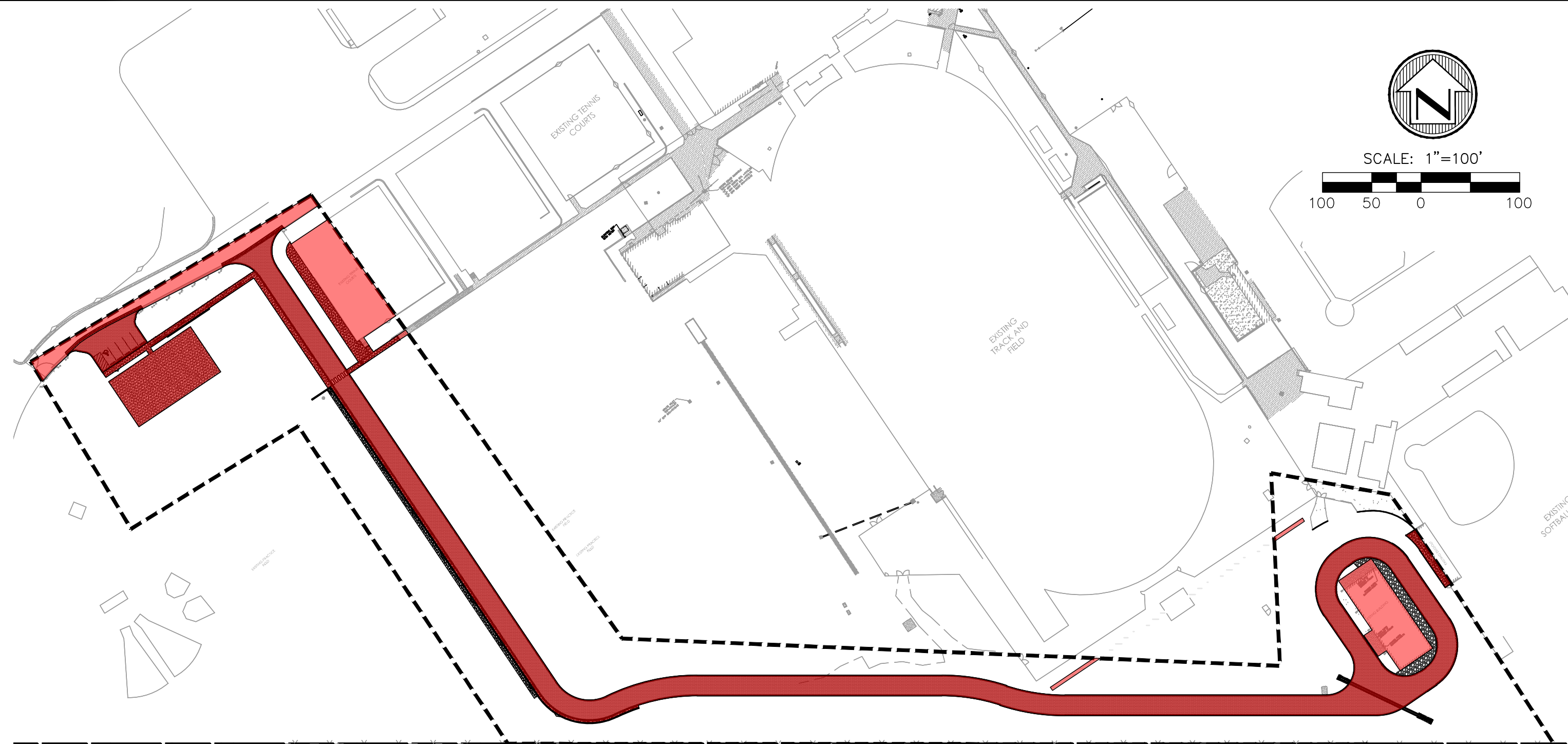
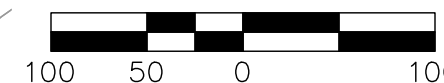
COMAL INDEPENDENT SCHOOL DISTRICT  
**CANYON LAKE HIGH SCHOOL**  
EXISTING IMPERVIOUS COVER EXHIBIT

FEBRUARY 2024





SCALE: 1"=100'



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**MTR**  
**Moy Tarin Ramirez Engineers, LLC**  
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 TBPELS ENGINEERING F-5287/SURVEYING F-10131500  
 12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051  
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**LEGEND**  
 - - - - - PROPERTY BOUNDARY  
 - - - - - PROJECT LIMITS  
 ■ IMPERVIOUS COVER

DISTURBED PROJECT AREA = 241,682 S.F. (5.55 AC.)  
 PROPOSED IMPERVIOUS COVER = 67,210 S.F. (1.54 AC.)

COMAL INDEPENDENT SCHOOL DISTRICT  
**CANYON LAKE HIGH SCHOOL**  
 PROPOSED IMPERVIOUS COVER EXHIBIT

FEBRUARY 2024

# 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: Sean Smith, P.E.

Date: 3/8/24

Signature of Customer/Agent:



Regulated Entity Name: CISD Canyon Lake High School

## Project Information

1. County: Comal
2. Stream Basin: Dutch Branch
3. Groundwater Conservation District (if applicable): Comal Trinity GCD
4. Customer (Applicant):

Contact Person: Jeffery Smith

Entity: Comal Independent School District

Mailing Address: 1404 IH 35 North

City, State: New Braunfels, TX

Telephone: (830) 221-2150

Email Address: jeffery.smith@comalisd.org

Zip: 78130-2817

Fax: \_\_\_\_\_



5. Agent/Representative (If any):

Contact Person: Sean Smith, P.E.

Entity: Moy Tarin Ramirez Engineers, LLC

Mailing Address: 12770 Cimarron Path #100

City, State: San Antonio, TX

Zip: 78249

Telephone: (210) 698-5051

Fax: (210) 698-5085

Email Address: ssmith@mtrengineers.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 \_\_\_\_\_.
- 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.

8555 FM 32, FISCHER, TX 78623; WEST OF THE INTERSECTION OF FM 32 AND FM 3424

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

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

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

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

11. Existing project site conditions are noted below:

- Existing commercial site
- Existing industrial site
- Existing residential site

- Existing paved and/or unpaved roads
- Undeveloped (Cleared)
- Undeveloped (Undisturbed/Not cleared)
- Other: Existing High School site

12. The type of project is:

- Residential: # of Lots: \_\_\_\_\_
- Residential: # of Living Unit Equivalents: \_\_\_\_\_
- Commercial
- Industrial
- Other: School

13. Total project area (size of site): 88 Acres

Total disturbed area: 5.55 Acres

14. Estimated projected population: 1,085

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                         | 325,111        | ÷ 43,560 =          | 7.47         |
| Parking                                     | 634,761        | ÷ 43,560 =          | 14.57        |
| Other paved surfaces                        | 476,966        | ÷ 43,560 =          | 10.95        |
| Total Impervious Cover                      | 1,436,838      | ÷ 43,560 =          | 32.99        |

**Total Impervious Cover  $32.99 \div$  Total Acreage  $88 \times 100 = 37.49\%$  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 Canyon Lake High School WWTP (WQ#0014533001) (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

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): FEMA PANEL 48091C0095F DATED 9/2/2009.
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.***

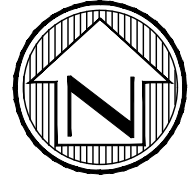
59.  The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or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

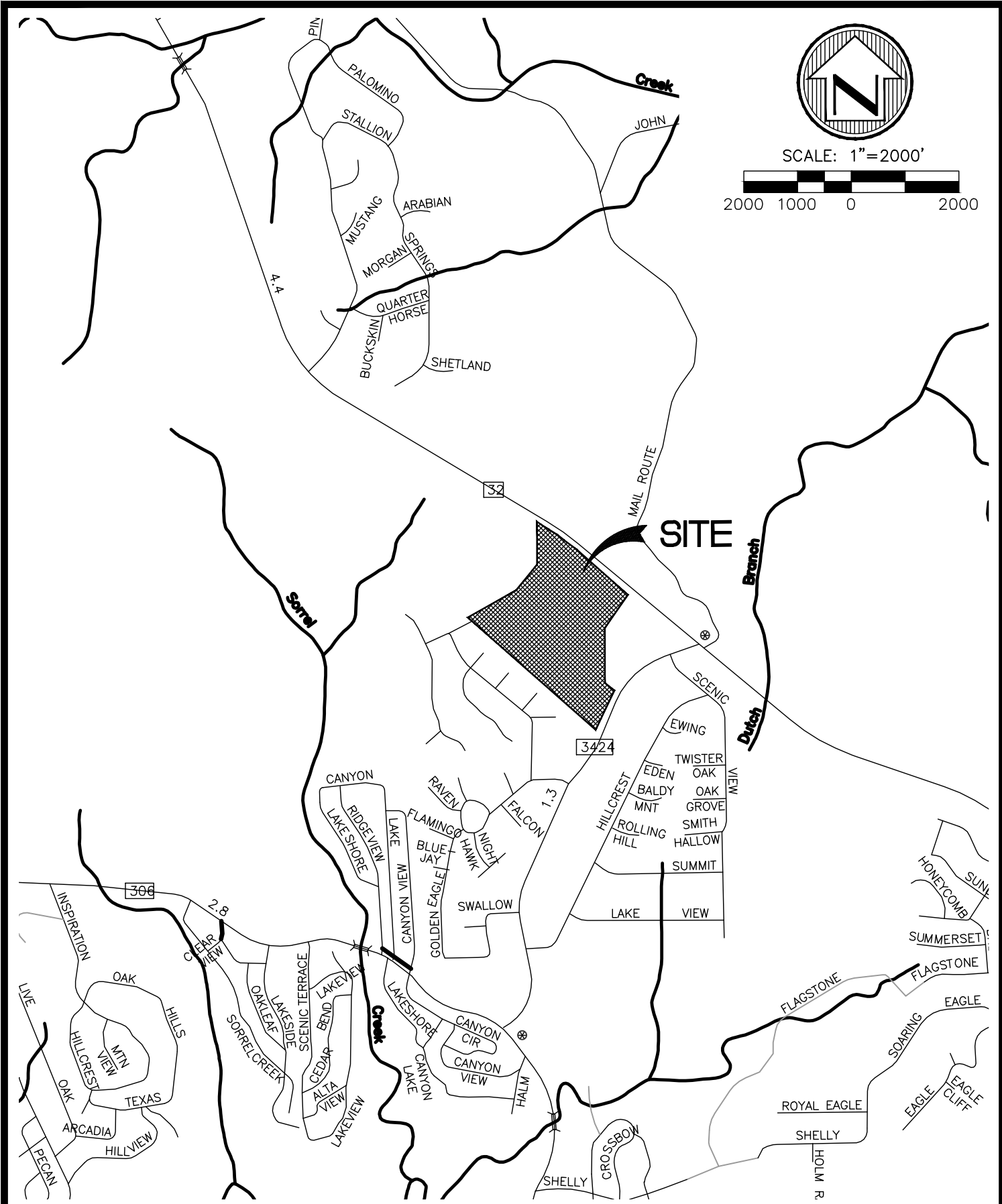
### ***Administrative Information***

- 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.





SCALE: 1"=2000'



**SITE**

COMAL INDEPENDENT SCHOOL DISTRICT  
**CANYON LAKE HIGH SCHOOL**  
**LOCATION MAP**

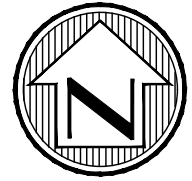


- Engineers
- Surveyors
- Planners

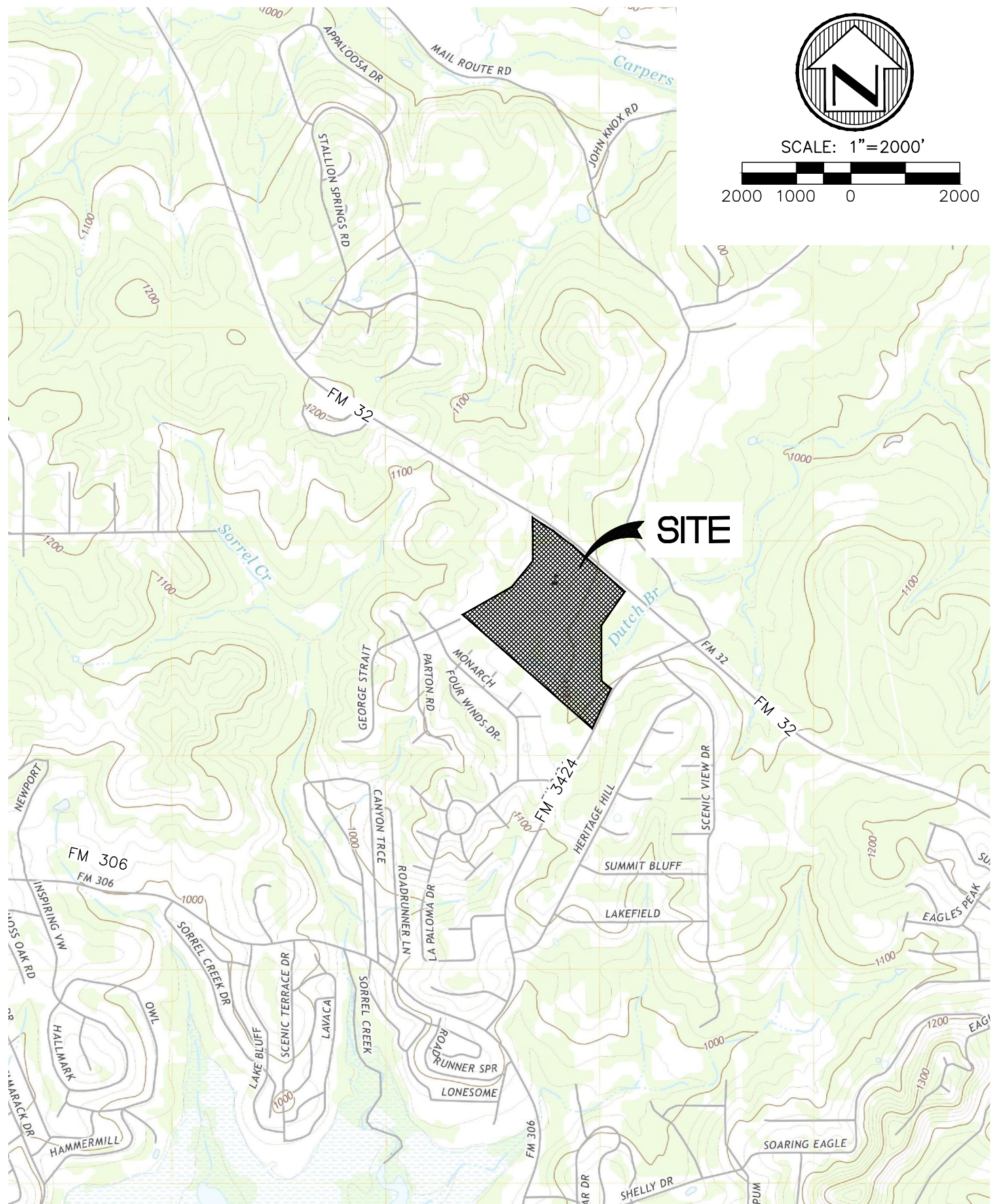
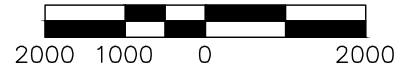
Moy Tarin Ramirez Engineers, LLC  
TBPE F-5297 & TBPLS F-10131500  
12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051  
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

DATE: MARCH 2024

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SCALE: 1"=2000'



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- Engineers
- Surveyors
- Planners

**Moy Tarin Ramirez Engineers, LLC**

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FAX: (210) 698-5085

COMAL INDEPENDENT SCHOOL DISTRICT  
**CANYON LAKE HIGH SCHOOL**

**USGS MAP - DEVIL'S BACKBONE QUADRANGLE**

DATE: MARCH 2024



## ATTACHMENT C

### PROJECT DESCRIPTION

The proposed project at Canyon Lake High School will include a new maintenance drive and a new golf training facility, as well as a new seal coat finish at existing asphalt pavement surfaces.

The overall acreage of the Canyon Lake High School property is 88 acres and is located at 8555 Farm to Market 32, Fischer, TX 78623. The site is located in the Edwards Aquifer Contributing Zone. A 36.87-acre area within the overall property boundary has been delineated for purposes of this modification. The 36.87-acre site is shown on the Contributing Zone Site Plan. All the work associated with this modification is located within the 36.87-acre site. The total project area on the Canyon Lake High School campus is 36.87 acres.

The current development consists of a high school with buildings, concrete sidewalks, asphalt parking, and sports fields.

The proposed impervious cover onsite will increase by approximately 1.18 acres, bringing the total site impervious cover to 32.99 acres, or 37.49%. Refer to the Contributing Zone Plan for impervious cover calculations. Treatment for the increase in impervious cover will be provided by proposed vegetative filter. The following table summarizes the increase in impervious cover per item.

| <b>Summary of Increase in Impervious Cover</b> |                    |              |
|--|--------------------|--------------|
| <b>Item</b>                                    | <b>Square Feet</b> | <b>Acres</b> |
| Parking  | 2,165              | .05          |
| Other Paved Surfaces                           | 49,235             | 1.13         |
| <b>Total:</b>                                  | <b>51,400</b>      | <b>1.18</b>  |

The remaining area outside of the 36.87-acre project area will remain undisturbed with this project.

## **ATTACHMENT D**

### **FACTORS AFFECTING SURFACE WATER QUALITY**

Factors impacting surface water quality include fertilizers, pesticides from landscaping, sediment from soil disturbances, leaf litter from tree removal, small amounts of oil grease from vehicular traffic, and suspended solids from the proposed impervious cover areas. These factors may cause suspended solids to enter into the storm water runoff and subsequently affect the surface water. However, temporary BMPs have been designed on the basis of the Technical Guidance Manual to treat the required amount of storm water runoff as to not adversely affect water quality entering into any surface water or groundwater.



## ATTACHMENT E

### VOLUME AND CHARACTER OF STORM WATER

#### **Volume of Storm Water**

Canyon Lake High School is located on the side of a small bluff with upgradient runoff flowing onto the site from the west and south. The majority of the flow from the west sheet flows and crosses the site at the southwest corner. The onsite flow is in a south easterly direction and exits the site at the southeast corner. The rational method ( $Q=CIA$ ) was used to calculate the 25-year storm event. The following areas and volumes were calculated:

#### **On-Site Drainage Area C**

Existing Conditions

Area = 18.80 acres

Runoff Coefficient = 0.45

Q25 = 53.79 cfs

Proposed Conditions

Area = 18.80 acres

Runoff Coefficient= 0.47

Q25 = 56.50 cfs

#### **Character of Storm Water**

Stormwater runoff will be generated from rooftops, parking areas, sidewalks, landscape, and field/pervious areas from the site. However, temporary BMPs have been designed, using the current Technical Guidance Manual, to treat stormwater as to not adversely affect water quality entering any surface water or groundwater. Permanent BMPs in the form of vegetative filter strips have also been incorporated into the design of the proposed development.

## **ATTACHMENT J**

### **BMP'S FOR UPGRADIENT STORM WATER**

Upgradient storm water enters the site along the northwest boundary and does not traverse impervious cover prior to entering the site. All storm water originating upgradient of the site will continue to naturally enter the site. The proposed construction will not impact the existing upgradient flows.

During construction, temporary BMP's consisting of silt fences and bagged gravel inlet filters will be utilized to alleviate sediment from leaving the site.



## **ATTACHMENT K**

### **BMP'S FOR ON-SITE STORM WATER**

During construction, temporary BMP's consisting of silt fences and bagged gravel inlet filters will be utilized to alleviate sediment from leaving the site.

The proposed improvements at Canyon Lake High School will result in a 1.18-acre increase in impervious cover, for a site total of 32.99 acres. In terms of TSS to be removed, there is an increase of 1,059 pounds for a site total required removal of 29,612 pounds. Treatment for the increase in impervious cover from this project will be provided by proposed vegetative filter strips.

The remaining area outside of our 36.87-acre project area will remain undisturbed with this project.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **CISD Canyon Lake High School**  
 Date Prepared: **3/7/2024**

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

Characters shown in red are data entry fields.

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

**1. The Required Load Reduction for the total project:**

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3:  $L_M = 27.2(A_N \times P)$

where:  $L_{M \text{ TOTAL PROJECT}}$  = Required TSS removal resulting from the proposed development = 80% of increased load  
 $A_N$  = Net increase in impervious area for the project  
 $P$  = Average annual precipitation, inches

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

|  |              |        |
|--|--------------|--------|
| County =   | <b>Comal</b> |        |
| Total project area included in plan *                                  | <b>88.00</b> | acres  |
| Predevelopment impervious area within the limits of the plan *         | <b>0.00</b>  | acres  |
| Total post-development impervious area within the limits of the plan * | <b>32.99</b> | acres  |
| Total post-development impervious cover fraction *                     | <b>0.37</b>  |        |
| P =  | <b>33</b>    | inches |

$L_{M \text{ TOTAL PROJECT}}$  = **29612** 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. =   | <b>1</b>    |       |
| Total drainage basin/outfall area =                                       | <b>1.18</b> | acres |
| Predevelopment impervious area within drainage basin/outfall area =       | <b>0.00</b> | acres |
| Post-development impervious area within drainage basin/outfall area =     | <b>1.18</b> | acres |
| Post-development impervious fraction within drainage basin/outfall area = | <b>1.00</b> |       |
| $L_{M \text{ THIS BASIN}}$ =  | <b>1059</b> | lbs.  |

**3. Indicate the proposed BMP Code for this basin.**

Proposed BMP = **Vegetated Filter Strips**  
 Removal efficiency = **85** percent

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

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

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

where:  $A_C$  = Total On-Site drainage area in the BMP catchment area  
 $A_I$  = Impervious area proposed in the BMP catchment area  
 $A_P$  = Pervious area remaining in the BMP catchment area  
 $L_R$  = TSS Load removed from this catchment area by the proposed BMP

|         |             |       |
|---------|-------------|-------|
| $A_C$ = | <b>1.18</b> | acres |
| $A_I$ = | <b>1.18</b> | acres |
| $A_P$ = | <b>0.00</b> | acres |
| $L_R$ = | <b>1145</b> | lbs   |

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

Desired  $L_{M \text{ THIS BASIN}}$  = **1059** lbs.

F = **0.92**



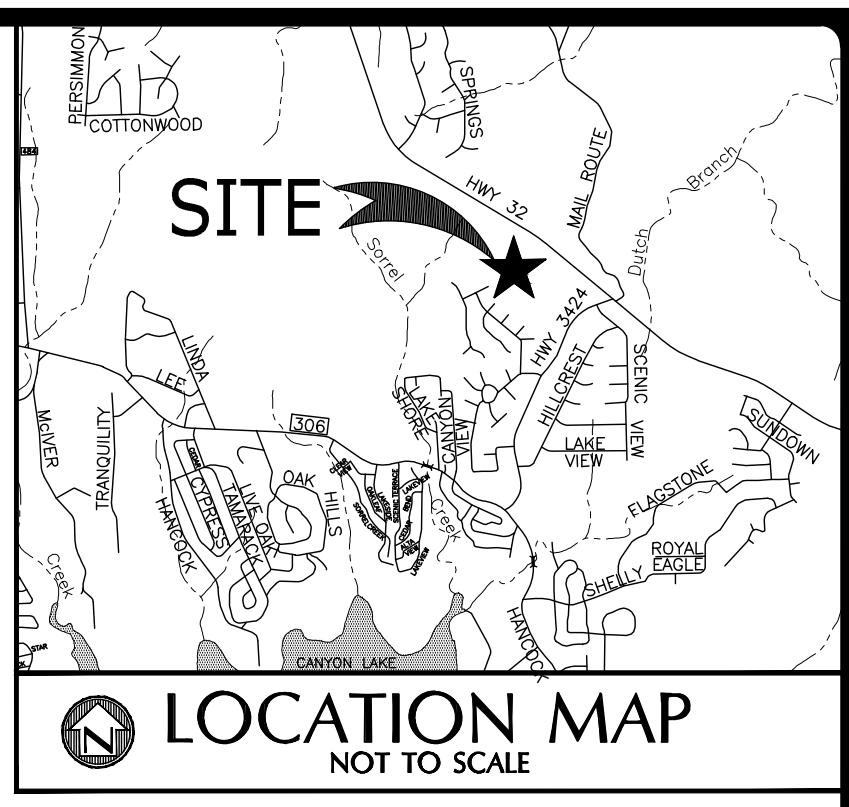
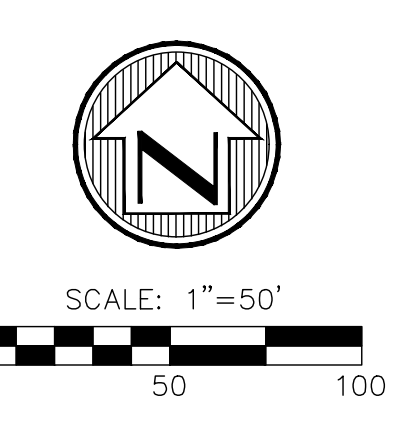
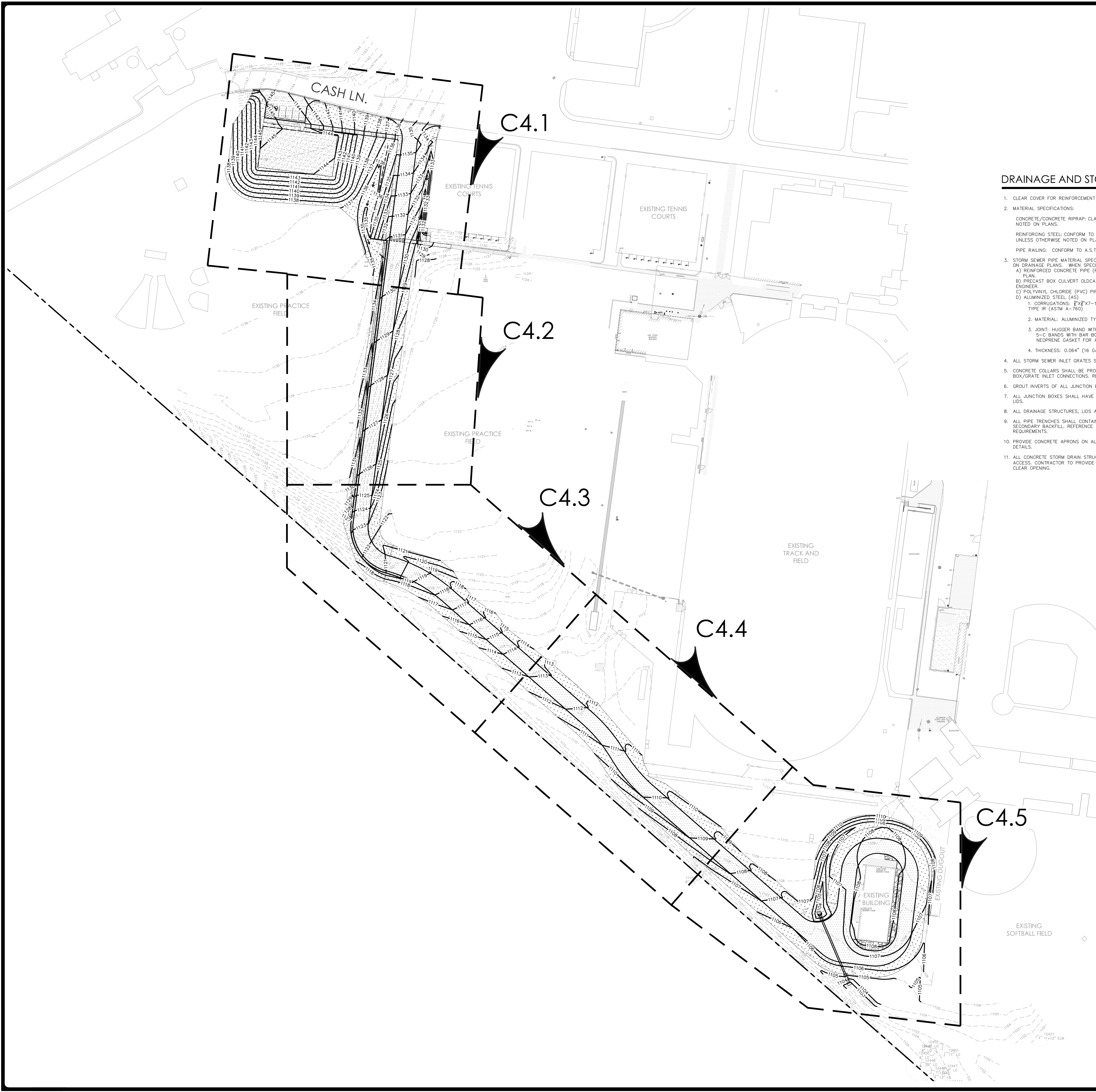


## **ATTACHMENT L**

### **BMP's FOR SURFACE STREAMS**

There are no surface streams on the project site. Permanent and temporary BMPs, as shown on the Site Plan, will be used to minimize sediments leaving the site and flowing into off-site surface streams during and after construction.





**DRAINAGE AND STORM SEWER NOTES:**

- CLEAR COVER FOR REINFORCEMENT STEEL IS 2" UNLESS OTHERWISE NOTED.
- MATERIAL SPECIFICATIONS:  
CONCRETE/CONCRETE RIPRAP: CLASS A 3000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED ON PLANS.  
REINFORCING STEEL: CONFORM TO A.S.T.M. A-615, GRADE 60 (2" CLEAR COVER UNLESS OTHERWISE NOTED ON PLANS)  
PIPE RAILING: CONFORM TO A.S.T.M. A-53, GRADE B, OR A-501
- STORM SEWER PIPE MATERIAL SPECIFICATIONS: PIPE MATERIAL SHALL BE AS NOTED ON DRAINAGE PLANS. WHEN SPECIFIED:  
A) REINFORCED CONCRETE PIPE (RCP) CLASS IV UNLESS OTHERWISE SPECIFIED ON PLAN.  
B) PRECAST BOX CULVERT OLDCASTLE PRECAST TYPE 1 OR EQUAL APPROVED BY ENGINEER.  
C) POLYVINYL CHLORIDE (PVC) PIPE SHALL BE SDR 26 (115 psi)  
D) ALUMINIZED STEEL (AS)  
  - CORRUGATIONS: 3" X 7-1/2" HELICAL CORRUGATIONS PER ASSHTO M-36, TYPE IR (ASTM A-760)
  - MATERIAL: ALUMINIZED TYPE 2 STEEL PER AASHTO M-274 (ASTM A-819)
  - JOINT: HUGGER BAND WITH TECHNO ANGLES. CONTRACTOR TO PROVIDE 5-C BANDS WITH BAR BOLT AND STRAP CONNECTION AND 12" WIDE NEOPRENE GASKET FOR ALL STORM PIPE UNDER PAVEMENT AREAS.
  - THICKNESS: 0.064" (16 GAUGE)
- ALL STORM SEWER INLET GRATES SHALL BE GALVANIZED.
- CONCRETE COLLARS SHALL BE PROVIDED ON ALL STORM DRAIN TO JUNCTION BOX/GRATE INLET CONNECTIONS. REFERENCE DETAILS CONSTRUCTION REQUIREMENTS.
- GROUT INVERTS OF ALL JUNCTION BOXES AND GRATE INLETS TO DRAIN.
- ALL JUNCTION BOXES SHALL HAVE MANHOLES FOR ACCESS WITH BOLTED MANHOLE LIDS.
- ALL DRAINAGE STRUCTURES, LIDS AND GRATES SHALL BE RATED FOR H20 LOADING.
- ALL PIPE TRENCHES SHALL CONTAIN FILTER FABRIC BETWEEN THE INITIAL AND SECONDARY BACKFILL. REFERENCE DETAILS AND SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS.
- PROVIDE CONCRETE APRONS ON ALL INLETS (NOT IN PAVEMENT AREAS) PER DETAILS.
- ALL CONCRETE STORM DRAIN STRUCTURES TO HAVE A 32" CLEAR OPENING FOR ACCESS. CONTRACTOR TO PROVIDE CORRESPONDING LID AND FRAME TO PROVIDE 32" CLEAR OPENING.

**LEGEND**

- NEW RIGID PAVEMENT
- NEW SOD
- NEW CONCRETE FLATWORK
- PROPERTY LINE
- EXISTING SPOT ELEVATION
- PROPOSED ELEVATION
- EXISTING CONTOUR
- NEW CONTOUR
- CHAINLINK FENCE
- FLOW LINE
- GRADE BREAK
- REINFORCED CONCRETE PIPE
- ALUMINIZED STEEL PIPE
- POLYVINYL CHLORIDE PIPE
- INVERT ELEVATION OF PIPE
- TOP OF WALL ELEVATION
- TOP OF MANHOLE ELEVATION
- TOP OF GRATE ELEVATION
- TOP OF CURB
- CUTTER
- TOP OF SIDEWALK EASEMENT
- ELECTRIC, GAS, TELEPHONE & CABLE T.V.
- R.O.W.
- HIGH POINT
- SIDEWALK RAMP
- DRAINAGE FLOW ARROW
- PROPOSED FIRE HYDRANT
- PROPOSED TRAFFIC SIGN

**GENERAL NOTES:**

- ALL WASTE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE SITE TO A STATE LICENSED LANDFILL. CONTRACTOR WILL BE REQUIRED TO PROVIDE DOCUMENTATION WHERE DISPOSED MATERIAL IS TAKEN TO. THE OWNER/SCHOOL DISTRICT WILL NOT BE HELD LIABLE FOR ANY WASTE MATERIAL FROM THE SITE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRIAGES, WARNING SIGNS, DIRECTIONAL SIGNS, FLASHER AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. BARRIAGES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND GENERALLY BE LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING SCHOOL DISTRICT BUILDINGS DESIGNATED TO REMAIN IN PLACE. THE CONTRACTOR WILL ALSO BE HELD RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PRIVATE PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONNEL AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE RESPONSIBILITY OF THE ARCHITECT/ENGINEER OR OWNER, TO CONDUCT CONSTRUCTION REVIEW OR OBSERVATION OF THE CONTRACTORS PERFORMANCE IS NOT INTENDED TO REVIEW THE ADEQUACY OF THE CONTRACTORS SAFETY MEASURES IN OR NEAR THE CONSTRUCTION SITE.
- PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL COMPLY WITH THE SEDIMENTATION AND EROSION CONTROL PLANS AND SHALL SUBMIT NOTIFICATIONS AND PAY ALL PERMITS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND GRADE ELEVATIONS OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. HE SHALL REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK AS HE WILL BE RESPONSIBLE FOR ALL WORK AS INTENDED BY THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL DEMOLISH, REMOVE AND REPLACE OR SALVAGE EXISTING IMPROVEMENTS AS INDICATED ON THESE PLANS AND AS NECESSARY TO ALLOW FOR THE CONSTRUCTION OF NEW IMPROVEMENTS. ITEMS NOT SHOWN ON THE PLANS MUST BE DEMOLISHED, REMOVED AND REPLACED OR SALVAGED AS IF THOSE ITEMS WERE SHOWN ON THE PLANS. THE CONTRACTOR SHALL REPORT THESE ITEMS TO THE PROJECT ARCHITECT/ENGINEER.
- THE CONTRACTOR SHALL NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DUST AND MUD CONTROL OF THE ENTIRE SITE, DURING DEMOLITION AND THE NEW CONSTRUCTION PHASES, AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS. NO DIRECT PAYMENT WILL BE MADE FOR DUST AND MUD CONTROL.
- PRIOR TO START OF WORK, CONTACT TEXAS 811 OR ONE STAR 811 TO LOCATE UNDERGROUND UTILITIES THROUGHOUT THE AREA UNDER CONSTRUCTION. THE CONTRACTOR SHALL RETAIN THE SERVICES, AND PAY ALL FEES, OF A PRIVATE UTILITY LOCATOR TO LOCATE THE PRIVATE UTILITIES INSIDE SCHOOL DISTRICT PROPERTY.
- THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVE GROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE INFORMATION. THERE IS NO GUARANTEE EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION,
- THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY PREVIOUS DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED.
- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS, FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS IN AND AROUND TRENCH EXCAVATION.
- AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL STABILIZE ALL DISTURBED SOIL AREAS IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND RE-SOD DISTURBED SOIL AREAS WITH BERMUDA SEEDING OR HYDROMULCH TO MATCH CONDITIONS PRIOR TO CONSTRUCTION, OR AS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.
- ADJUST ALL EXISTING VALVES & UTILITIES SCHEDULED TO REMAIN TO FINAL GRADE. REFERENCE GRADING PLAN, FOR FINAL ELEVATIONS.
- WHEN PRESSURE UTILITY SYSTEMS ARE IN VERTICAL CONFLICT WITH GRAVITY UTILITY SYSTEMS THE CONTRACTOR SHALL REROUTE PRESSURE SYSTEMS AS NECESSARY FOR PROPOSED CONSTRUCTION.
- ANY EXISTING OFF-SITE IMPROVEMENTS OR UTILITIES REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE PROJECT ARCHITECT AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION, ANY DAMAGES DONE TO EXISTING FENCES, CURBS, CONCRETE DRIVEWAYS, SIDEWALKS, STRUCTURES, AND PAVEMENT, THAT ARE NOT INDICATED TO BE REMOVED. AN INVENTORY OF EXISTING CONDITIONS SHALL BE CONDUCTED WITH CONTRACTOR AND PROJECT ARCHITECT PRIOR TO DEMOLITION.
- NOTIFY OWNER 72 HOURS IN ADVANCE OF UTILITY SHUTDOWN.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION CONSTRUCTION ACTIVITIES WITH OTHER DISCIPLINES AS REQUIRED.
- CONTRACTOR IS REQUIRED TO SET AND VERIFY ALL PROJECT ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY THE SAME MATERIALS AS WELL AS VERTICAL AND HORIZONTAL ALIGNMENT.
- CONTRACTOR SHALL MAINTAIN CONTINUAL ALL UTILITY SERVICES (GAS, TELE, CATV, ELEC., WATER, SEWER, STORM SEWER, ETC.) TO EXISTING FACILITIES AND BUILDINGS, WHERE CONSTRUCTION IS IN THE PROXIMITY OF A UTILITY, THE CONTRACTOR WILL TAKE PRECAUTION TO PROTECT AND/OR SUPPORT THE UTILITY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PLANS AND LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. IF, IN THE OPINION OF THE ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRIAGES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES MAY BE ORDERED BY THE ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

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**MIR**  
Moy Tarin Ramirez Engineers, LLC  
12770 CHAMBERLAIN PATH, SUITE 100  
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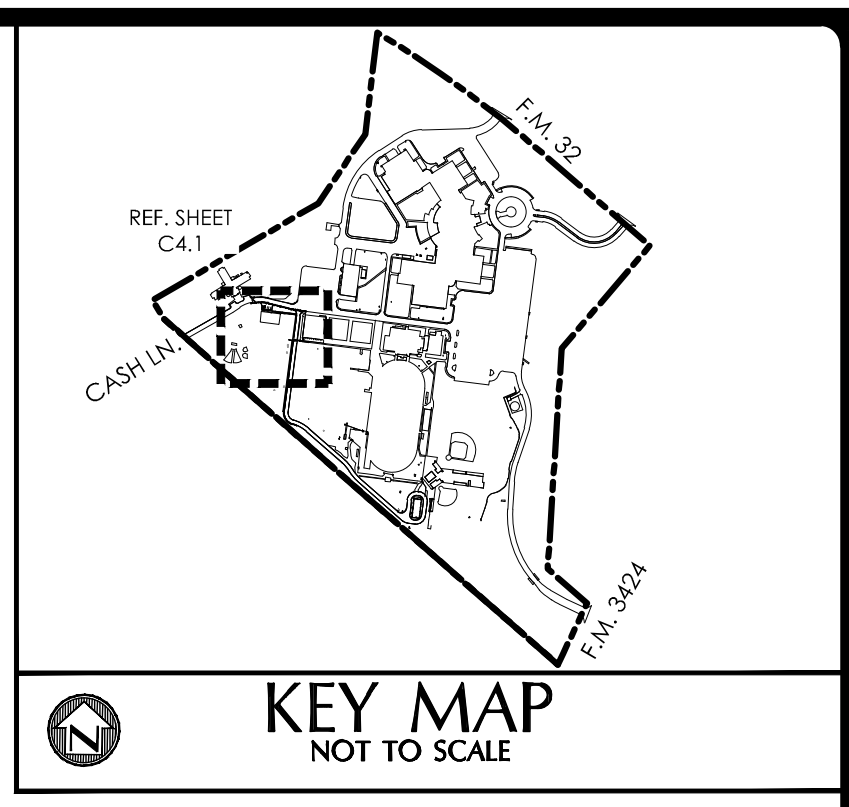
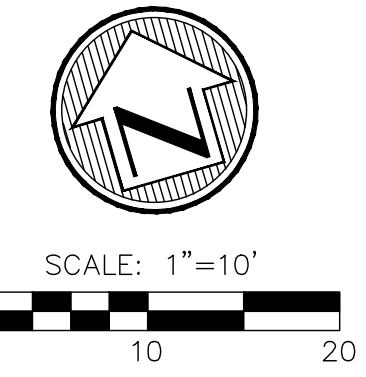
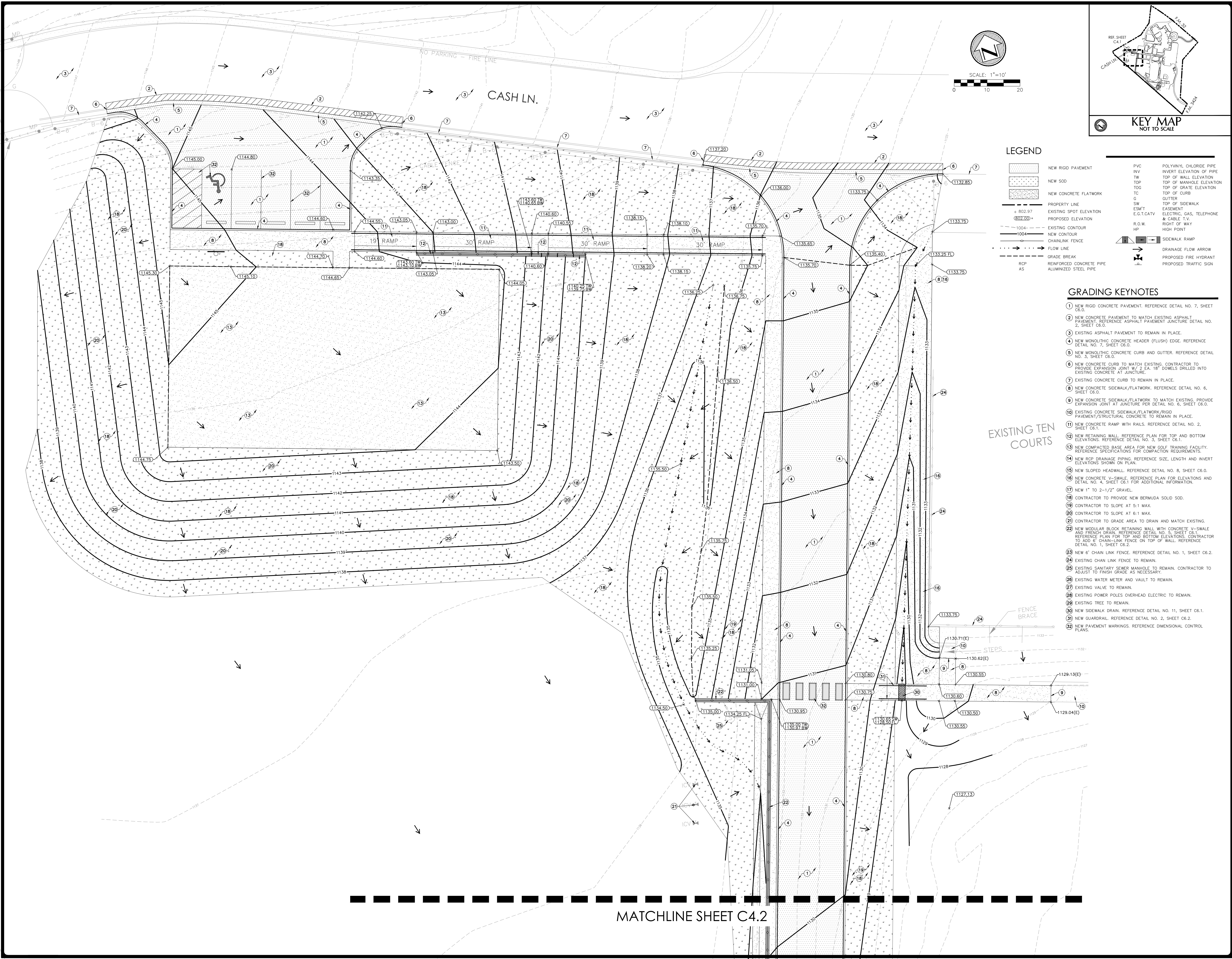
CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION

SITE OVERALL GRADING AND DRAINAGE PLAN

SHEET

# C4.0





**LEGEND**

|  |                          |  |                                       |
|--|--------------------------|--|---------------------------------------|
|  | NEW RIGID PAVEMENT       |  | PVC POLYVINYL CHLORIDE PIPE           |
|  | NEW SOD                  |  | INVERT ELEVATION OF PIPE              |
|  | NEW CONCRETE FLATWORK    |  | TOP OF WALL ELEVATION                 |
|  | PROPERTY LINE            |  | TOP OF MANHOLE ELEVATION              |
|  | EXISTING SPOT ELEVATION  |  | TOP OF GRATE ELEVATION                |
|  | PROPOSED ELEVATION       |  | TOP OF CURB                           |
|  | 1004                     |  | GUTTER                                |
|  | EXISTING CONTOUR         |  | TOP OF SIDEWALK                       |
|  | NEW CONTOUR              |  | EASEMENT                              |
|  | CHAIN LINK FENCE         |  | E.G. CATV                             |
|  | FLOW LINE                |  | ELECTRIC, GAS, TELEPHONE & CABLE T.V. |
|  | GRADE BREAK              |  | R.O.W.                                |
|  | REINFORCED CONCRETE PIPE |  | H.P.                                  |
|  | ALUMINIZED STEEL PIPE    |  | SIDEWALK RAMP                         |
|  |                          |  | DRAINAGE FLOW ARROW                   |
|  |                          |  | PROPOSED FIRE HYDRANT                 |
|  |                          |  | PROPOSED TRAFFIC SIGN                 |

- GRADING KEYNOTES**
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  - 2 NEW CONCRETE PAVEMENT TO MATCH EXISTING ASPHALT PAVEMENT. REFERENCE ASPHALT PAVEMENT JUNCTURE DETAIL NO. 2, SHEET C6.0.
  - 3 EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
  - 4 NEW MONOLITHIC CONCRETE HEADER (FLUSH) EDGE. REFERENCE DETAIL NO. 7, SHEET C6.0.
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  - 6 NEW CONCRETE CURB TO MATCH EXISTING. CONTRACTOR TO PROVIDE EXPANSION JOINT W/ 2 EA. 18" DOWELS DRILLED INTO EXISTING CONCRETE AT JUNCTURE.
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  - 8 NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE DETAIL NO. 6, SHEET C6.0.
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  - 12 NEW RETAINING WALL. REFERENCE PLAN FOR TOP AND BOTTOM ELEVATIONS. REFERENCE DETAIL NO. 3, SHEET C6.1.
  - 13 NEW COMPACTED BASE AREA FOR NEW GOLF TRAINING FACILITY. REFERENCE SPECIFICATIONS FOR COMPACTON REQUIREMENTS.
  - 14 NEW RCP DRAINAGE PIPING. REFERENCE SIZE, LENGTH AND INVERT ELEVATIONS SHOWN ON PLAN.
  - 15 NEW SLOPED HEADWALL. REFERENCE DETAIL NO. 8, SHEET C6.0.
  - 16 NEW CONCRETE V-SWALE. REFERENCE PLAN FOR ELEVATIONS AND DETAIL NO. 4, SHEET C6.1 FOR ADDITIONAL INFORMATION.
  - 17 NEW 1" TO 2-1/2" GRAVEL.
  - 18 CONTRACTOR TO PROVIDE NEW BERMUDA SOLID SOD.
  - 19 CONTRACTOR TO SLOPE AT 5:1 MAX.
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  - 21 CONTRACTOR TO GRADE AREA TO DRAIN AND MATCH EXISTING.
  - 22 NEW MODULAR BLOCK RETAINING WALL WITH CONCRETE V-SWALE AND FRENCH DRAIN. REFERENCE DETAIL NO. 5, SHEET C6.1. REFERENCE PLAN FOR TOP AND BOTTOM ELEVATIONS. CONTRACTOR TO ADD 6" CHAIN-LINK FENCE ON TOP OF WALL. REFERENCE DETAIL NO. 1, SHEET C6.2.
  - 23 NEW 6" CHAIN LINK FENCE. REFERENCE DETAIL NO. 1, SHEET C6.2.
  - 24 EXISTING CHAIN LINK FENCE TO REMAIN.
  - 25 EXISTING SANITARY SEWER MANHOLE TO REMAIN. CONTRACTOR TO ADJUST TO FINISH GRADE AS NECESSARY.
  - 26 EXISTING WATER METER AND VAULT TO REMAIN.
  - 27 EXISTING VALVE TO REMAIN.
  - 28 EXISTING POWER POLES OVERHEAD ELECTRIC TO REMAIN.
  - 29 EXISTING TREE TO REMAIN.
  - 30 NEW SIDEWALK DRAIN. REFERENCE DETAIL NO. 11, SHEET C6.1.
  - 31 NEW GUARDRAIL. REFERENCE DETAIL NO. 2, SHEET C6.2.
  - 32 NEW PAVEMENT MARKINGS. REFERENCE DIMENSIONAL CONTROL PLANS.

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**MIR**  
**Moy Tatin Ramirez Engineers, LLC**  
 Planners  
 Surveyors  
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CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION  
 GRADING AND DRAINAGE PLAN

MATCHLINE SHEET C4.2

SHEET  
**C4.1**





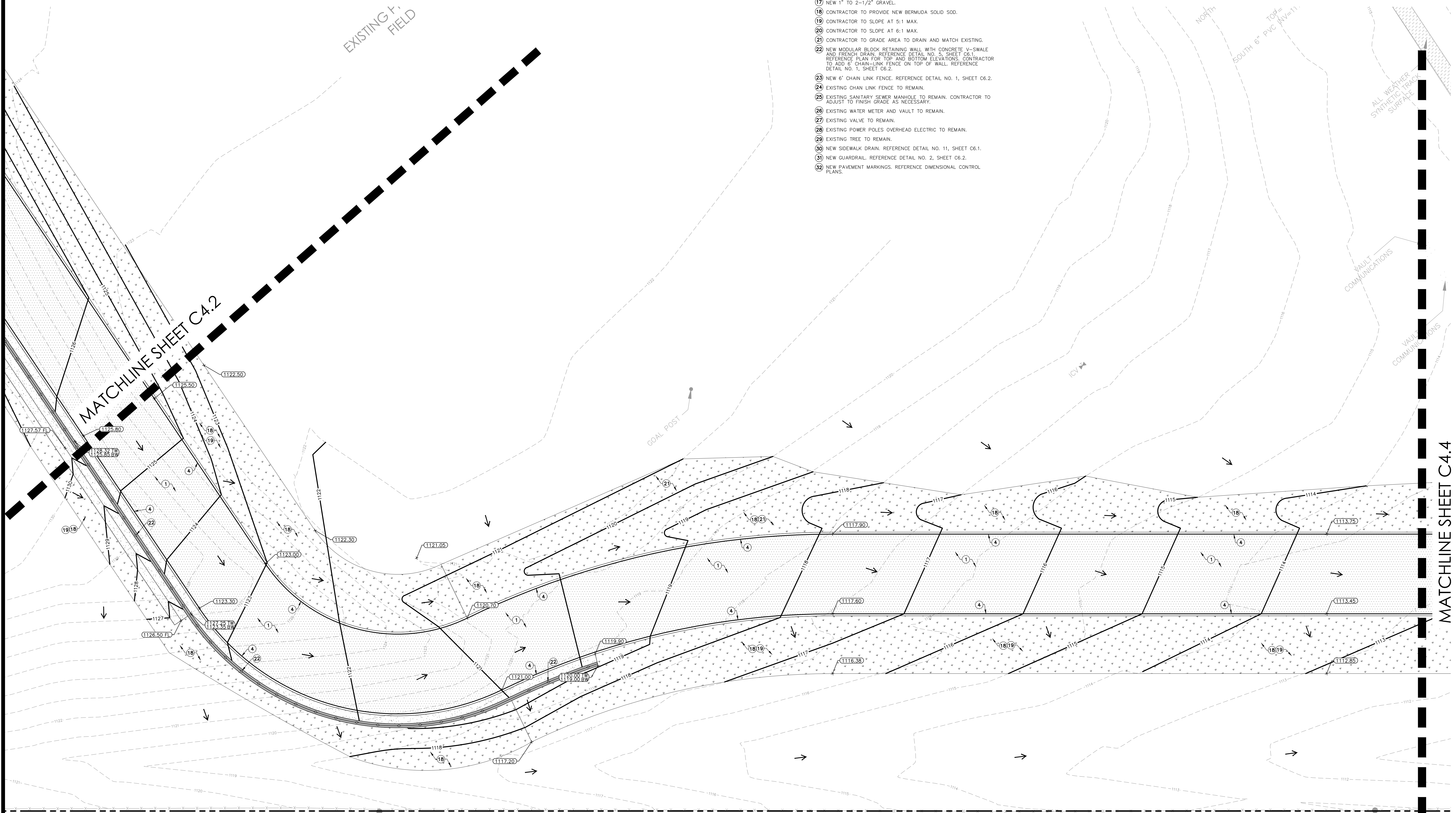
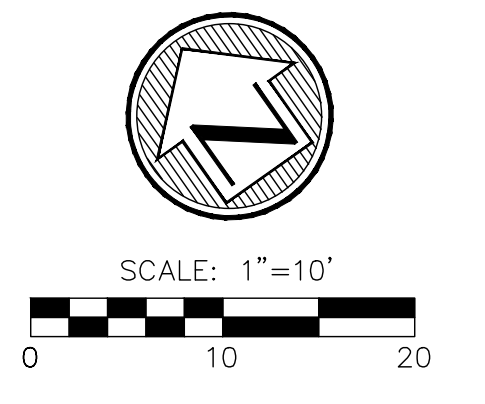
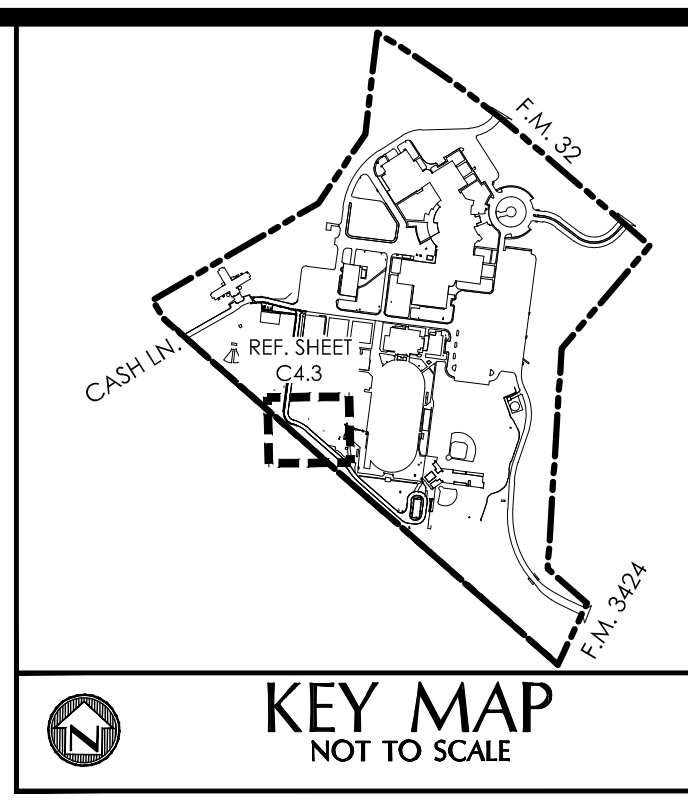


**GRADING KEYNOTES**

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**LEGEND**

|  |                          |            |                                       |
|--|--------------------------|------------|---------------------------------------|
|  | NEW RIGID PAVEMENT       | PVC        | POLYVINYL CHLORIDE PIPE               |
|  | NEW SOD                  | INV        | INVERT ELEVATION OF PIPE              |
|  | NEW CONCRETE FLATWORK    | TW         | TOP OF WALL ELEVATION                 |
|  | PROPERTY LINE            | TOG        | TOP OF MANHOLE ELEVATION              |
|  | EXISTING SPOT ELEVATION  | TC         | TOP OF CURB                           |
|  | PROPOSED ELEVATION       | G          | GUTTER                                |
|  | EXISTING CONTOUR         | SW         | TOP OF SIDEWALK                       |
|  | NEW CONTOUR              | ESM/T      | EASEMENT                              |
|  | CHAINLINK FENCE          | E.G.T.CATV | ELECTRIC, GAS, TELEPHONE & CABLE T.V. |
|  | FLOW LINE                | R.O.W.     | RIGHT OF WAY                          |
|  | RCP                      | HP         | HIGH POINT                            |
|  | AS                       |            | SIDEWALK RAMP                         |
|  | GRADE BREAK              |            | DRAINAGE FLOW ARROW                   |
|  | REINFORCED CONCRETE PIPE |            | PROPOSED FIRE HYDRANT                 |
|  | ALUMINIZED STEEL PIPE    |            | PROPOSED TRAFFIC SIGN                 |



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CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION  
 GRADING AND DRAINAGE PLAN

SHEET  
**C4.3**

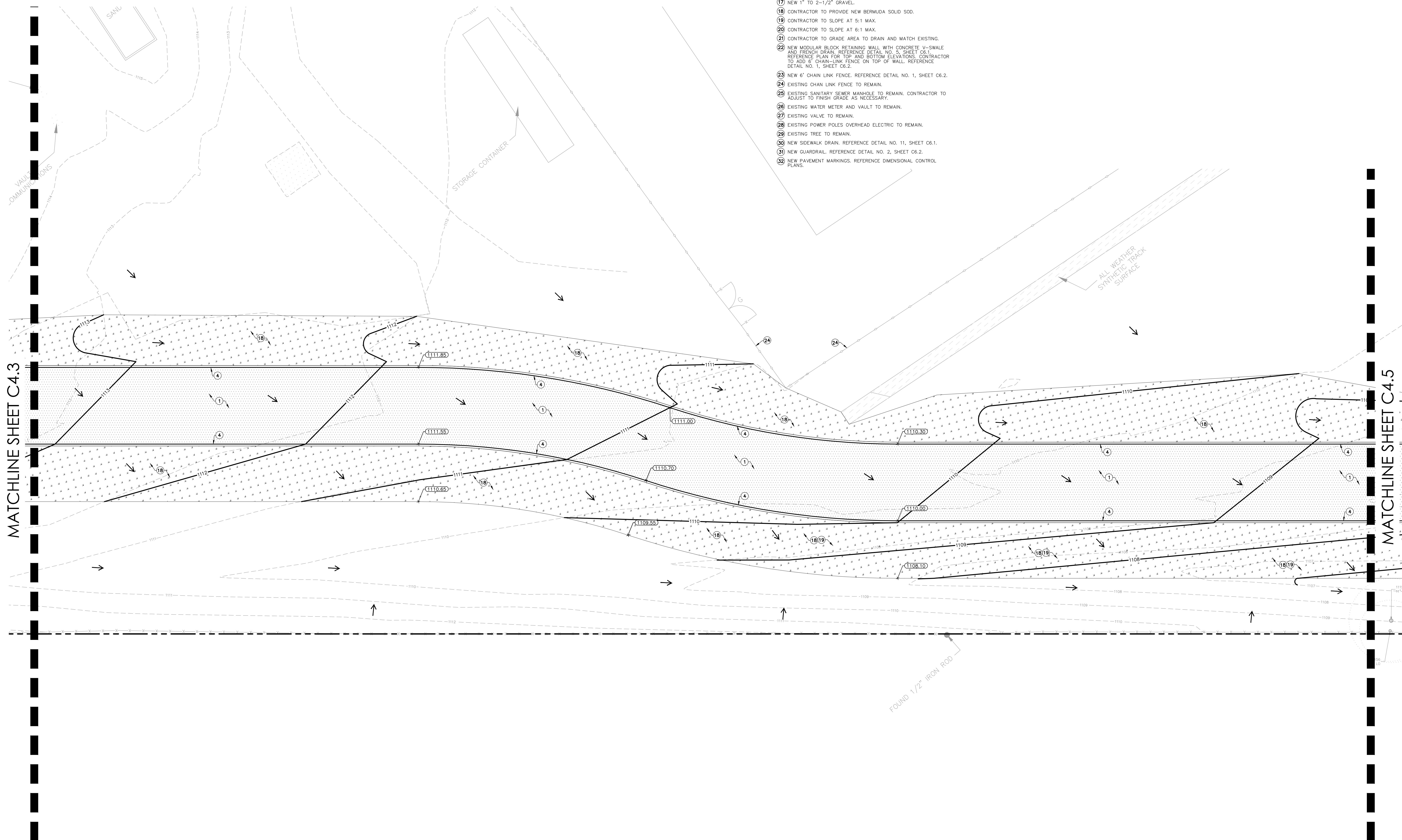
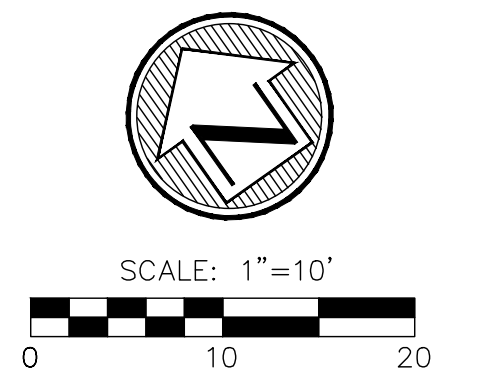
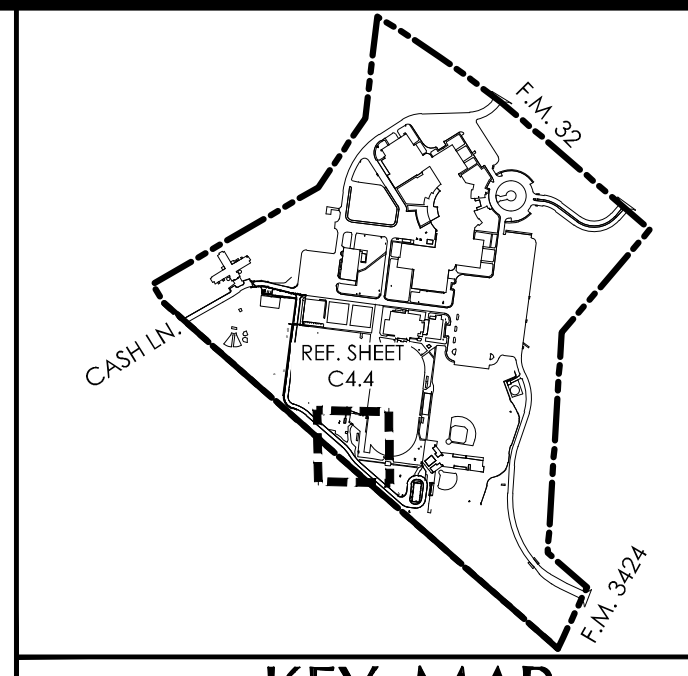


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**LEGEND**

- |  |                         |            |                                       |
|--|-------------------------|------------|---------------------------------------|
|  | NEW RIGID PAVEMENT      | PVC        | POLYVINYL CHLORIDE PIPE               |
|  | NEW SOD                 | INV        | INVERT ELEVATION OF PIPE              |
|  | NEW CONCRETE FLATWORK   | TW         | TOP OF WALL ELEVATION                 |
|  | PROPERTY LINE           | TOG        | TOP OF MANHOLE ELEVATION              |
|  | EXISTING SPOT ELEVATION | TC         | TOP OF CURB                           |
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|  | FLOW LINE               | R.O.W.     | RIGHT OF WAY                          |
|  | RCP                     | HP         | HIGH POINT                            |
|  | AS                      |            | SIDEWALK RAMP                         |
|  |                         |            | DRAINAGE FLOW ARROW                   |
|  |                         |            | PROPOSED FIRE HYDRANT                 |
|  |                         |            | PROPOSED TRAFFIC SIGN                 |
|  |                         |            | GRADE BREAK                           |
|  |                         |            | REINFORCED CONCRETE PIPE              |
|  |                         |            | ALUMINIZED STEEL PIPE                 |



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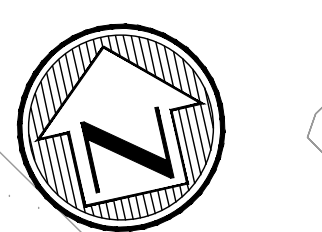
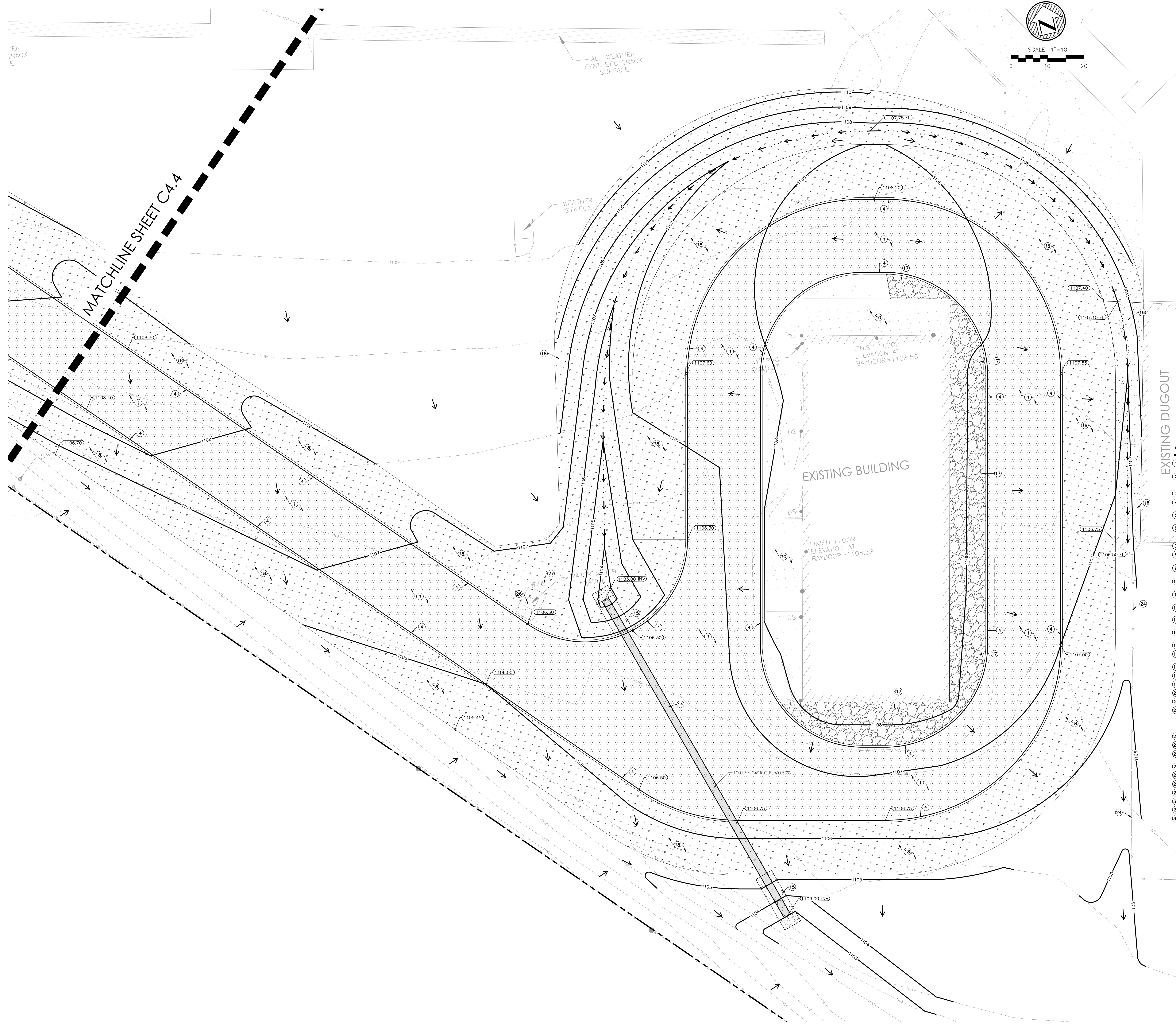
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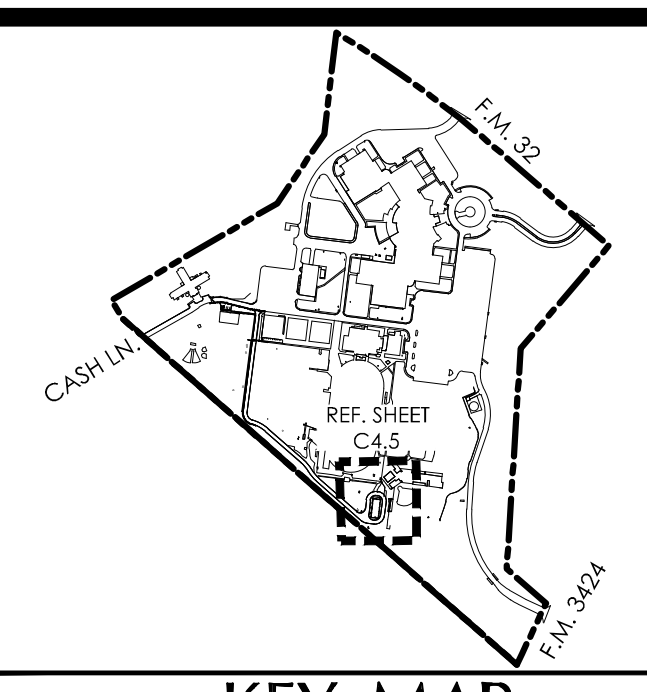
CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION
   
 GRADING AND DRAINAGE PLAN

SHEET
   
**C4.4**





SCALE: 1"=10'  
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**LEGEND**

- NEW RIGID PAVEMENT
- NEW SOD
- NEW CONCRETE FLATWORK
- PROPERTY LINE
- EXISTING SPOT ELEVATION
- PROPOSED ELEVATION
- EXISTING CONTOUR
- NEW CONTOUR
- CHAINLINK FENCE
- FLOW LINE
- GRADE BREAK
- RCP REINFORCED CONCRETE PIPE
- AS ALUMINIZED STEEL PIPE
- PVC POLYVINYL CHLORIDE PIPE
- INV INVERT ELEVATION OF PIPE
- TW TOP OF WALL ELEVATION
- TOP TOP OF MANHOLE ELEVATION
- TOG TOP OF GRATE ELEVATION
- TC TOP OF CURB
- G GUTTER
- SW TOP OF SIDEWALK
- ESW/T EASEMENT
- E.G.T.CATV ELECTRIC, GAS, TELEPHONE & CABLE T.V.
- R.O.W. RIGHT OF WAY
- HP HIGH POINT
- SIDEWALK RAMP
- DRAINAGE FLOW ARROW
- PROPOSED FIRE HYDRANT
- PROPOSED TRAFFIC SIGN

**EXISTING DUGOUT**

**GRADING KEYNOTES**

- 1 NEW RIGID CONCRETE PAVEMENT. REFERENCE DETAIL NO. 7, SHEET C6.0.
- 2 NEW CONCRETE PAVEMENT TO MATCH EXISTING ASPHALT PAVEMENT. REFERENCE ASPHALT PAVEMENT DETAIL NO. 2, SHEET C6.0.
- 3 EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
- 4 NEW MONOLITHIC CONCRETE HEADER (FLUSH) EDGE. REFERENCE DETAIL NO. 7, SHEET C6.0.
- 5 NEW MONOLITHIC CONCRETE CURB AND GUTTER. REFERENCE DETAIL NO. 3, SHEET C6.0.
- 6 NEW CONCRETE CURB TO MATCH EXISTING. CONTRACTOR TO PROVIDE EXPANSION JOINT W/ 2 EA. 1" DOWELS DRILLED INTO EXISTING CONCRETE AT JUNCTURE.
- 7 EXISTING CONCRETE CURB TO REMAIN IN PLACE.
- 8 NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE DETAIL NO. 6, SHEET C6.0.
- 9 NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. PROVIDE EXPANSION JOINT AT JUNCTURE PER DETAIL NO. 6, SHEET C6.0.
- 10 EXISTING CONCRETE SIDEWALK/FLATWORK/RIGID PAVEMENT/STRUCTURAL CONCRETE TO REMAIN IN PLACE.
- 11 NEW CONCRETE RAMP WITH RAILS. REFERENCE DETAIL NO. 2, SHEET C6.1.
- 12 NEW RETAINING WALL. REFERENCE PLAN FOR TOP AND BOTTOM ELEVATIONS. REFERENCE DETAIL NO. 3, SHEET C6.1.
- 13 NEW COMPACTED BASE AREA FOR NEW GOLF TRAINING FACILITY. REFERENCE SPECIFICATIONS FOR COMPACTION REQUIREMENTS.
- 14 NEW RCP DRAINAGE PIPING. REFERENCE SIZE, LENGTH AND INVERT ELEVATIONS SHOWN ON PLAN.
- 15 NEW SLOPED HEADWALL. REFERENCE DETAIL NO. 8, SHEET C6.0.
- 16 NEW CONCRETE V-SWALE. REFERENCE PLAN FOR ELEVATIONS AND DETAIL NO. 4, SHEET C6.1 FOR ADDITIONAL INFORMATION.
- 17 NEW 1" TO 2-1/2" GRAVEL.
- 18 CONTRACTOR TO PROVIDE NEW BERMUDA SOLID SOD.
- 19 CONTRACTOR TO SLOPE AT 5:1 MAX.
- 20 CONTRACTOR TO SLOPE AT 6:1 MAX.
- 21 CONTRACTOR TO GRADE AREA TO DRAIN AND MATCH EXISTING.
- 22 NEW MODULAR BLOCK RETAINING WALL WITH CONCRETE V-SWALE AND FRENCH DRAIN. REFERENCE DETAIL NO. 5, SHEET C6.1. REFERENCE PLAN FOR TOP AND BOTTOM ELEVATIONS. CONTRACTOR TO ADD 6\"/>

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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|     |      |             |

**MIR**  
Moy Tatin Ramirez Engineers, LLC  
Engineers  
Surveyors  
Planners

17770 CHARRON PATH, SUITE 100  
SAN ANTONIO, TEXAS 78249  
TEL: (210) 696-5051  
FAX: (210) 696-5065



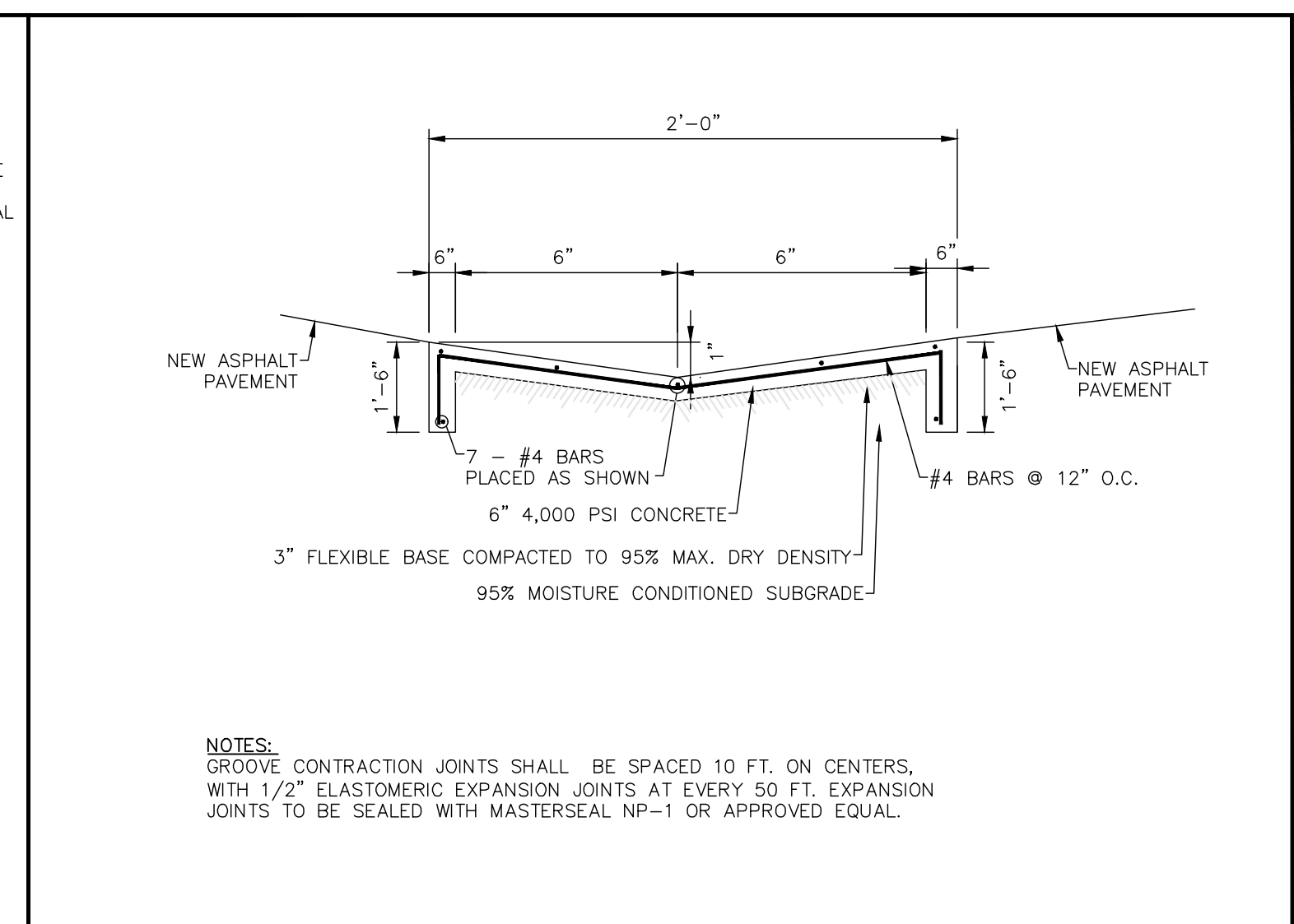
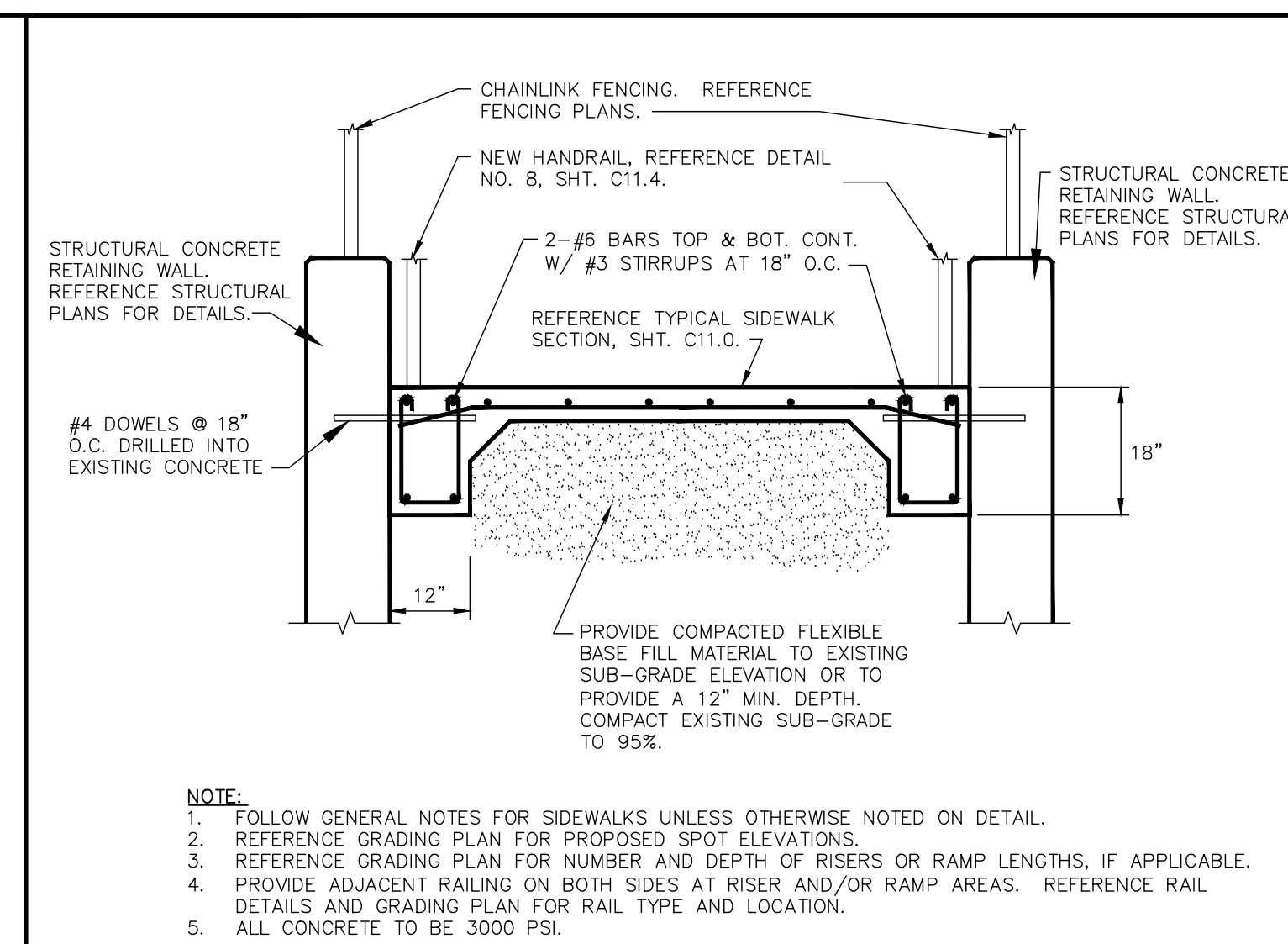
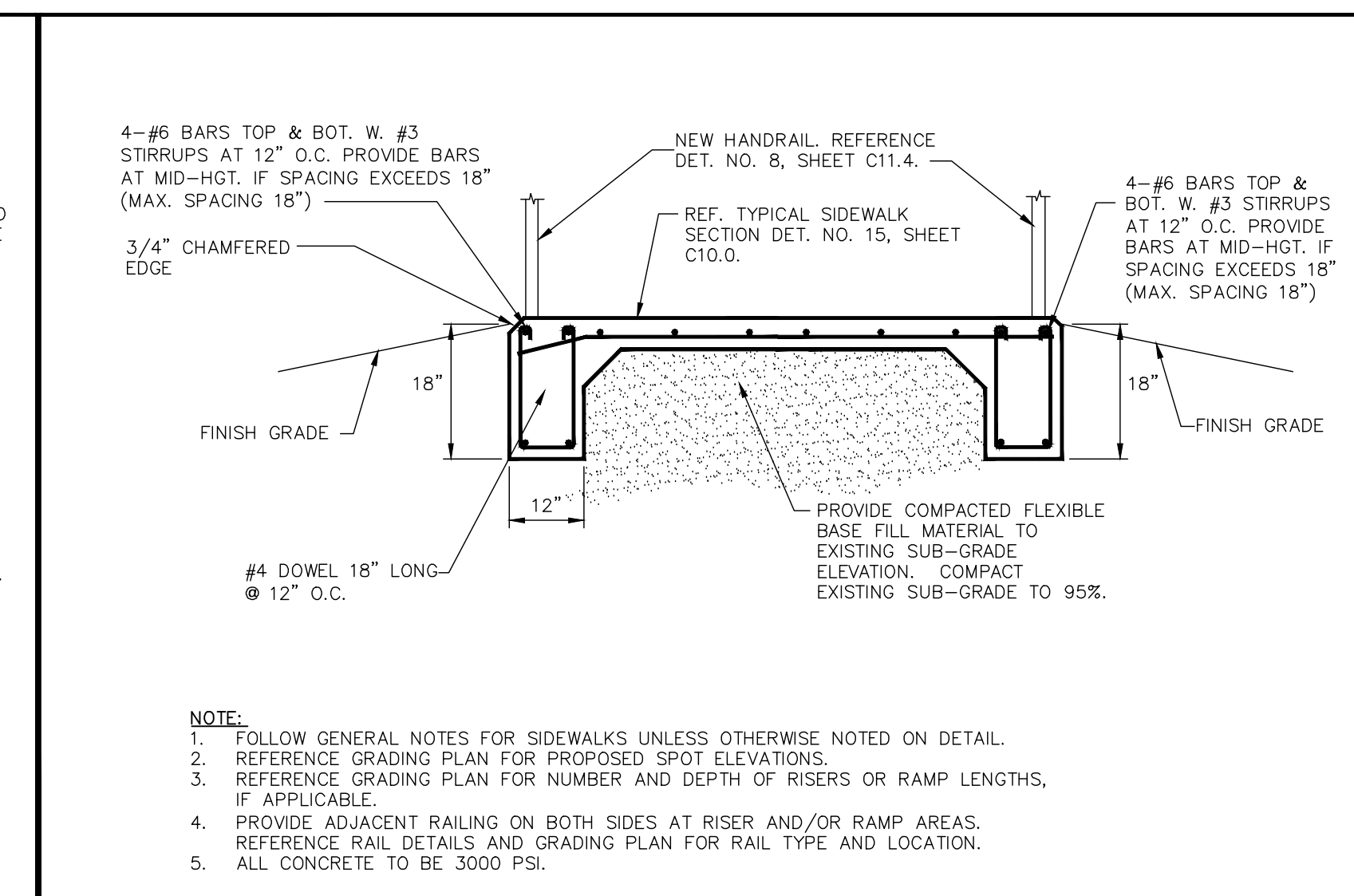
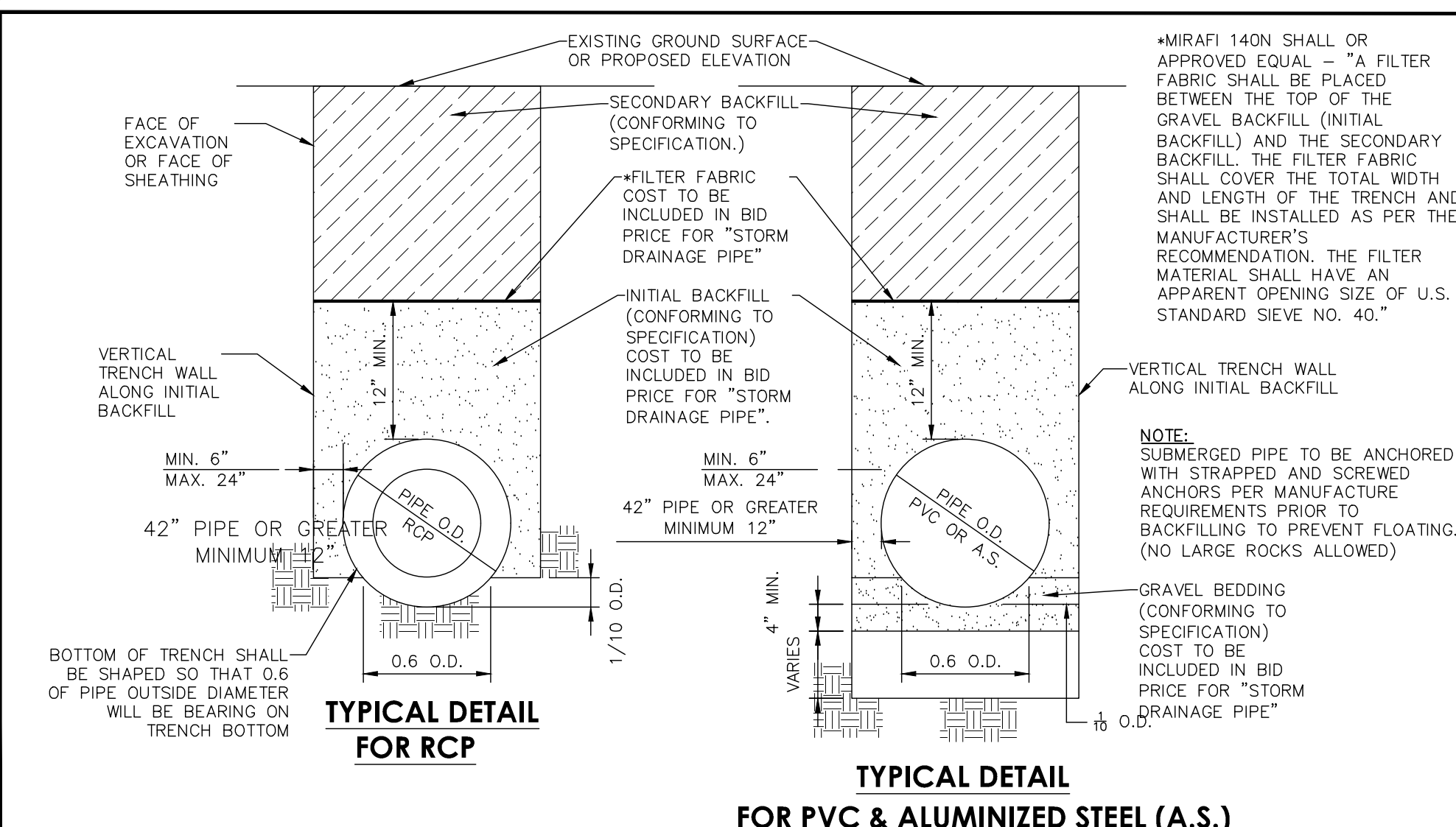
CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION  
GRADING AND DRAINAGE PLAN

SHEET  
**C4.5**







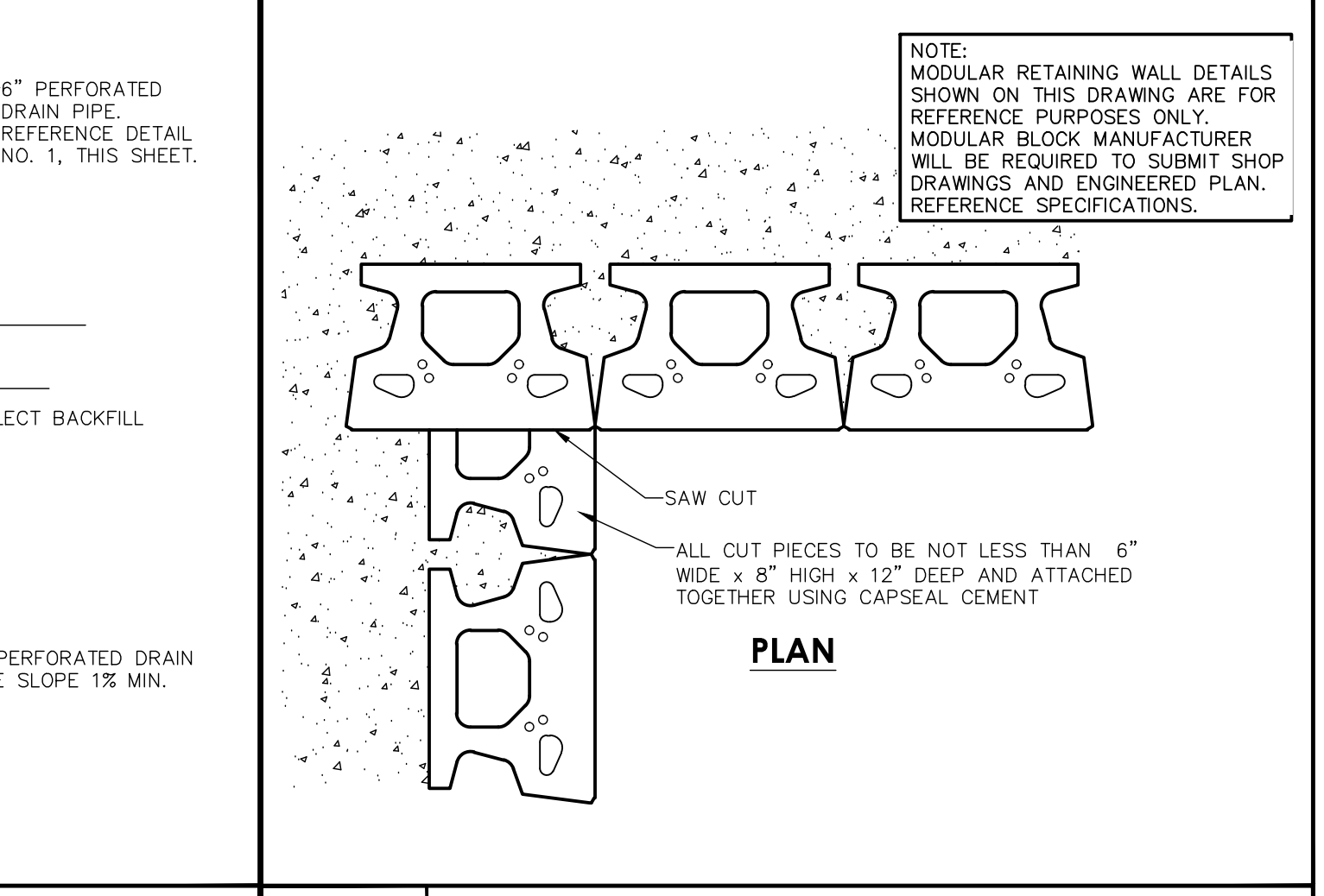
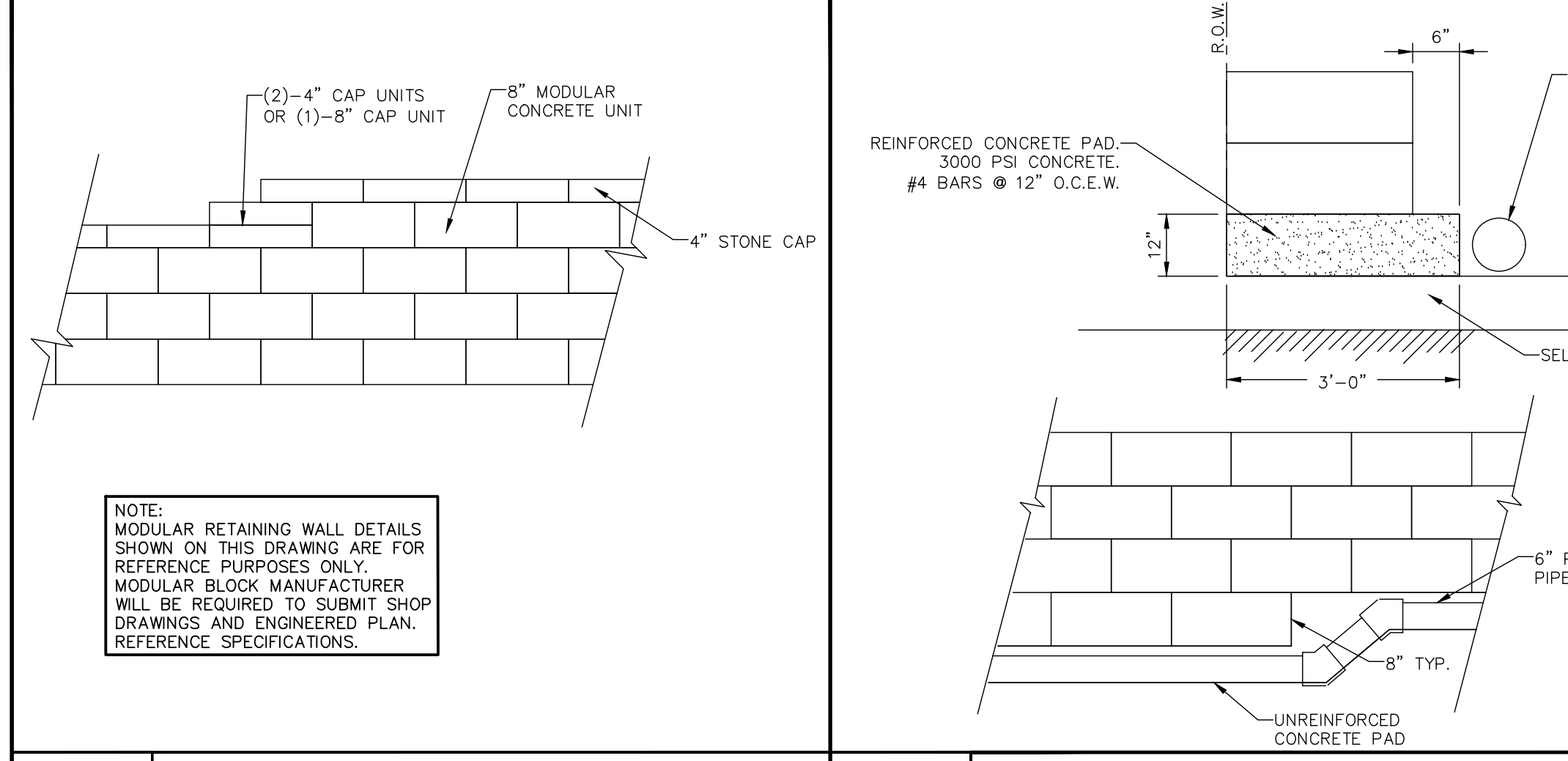
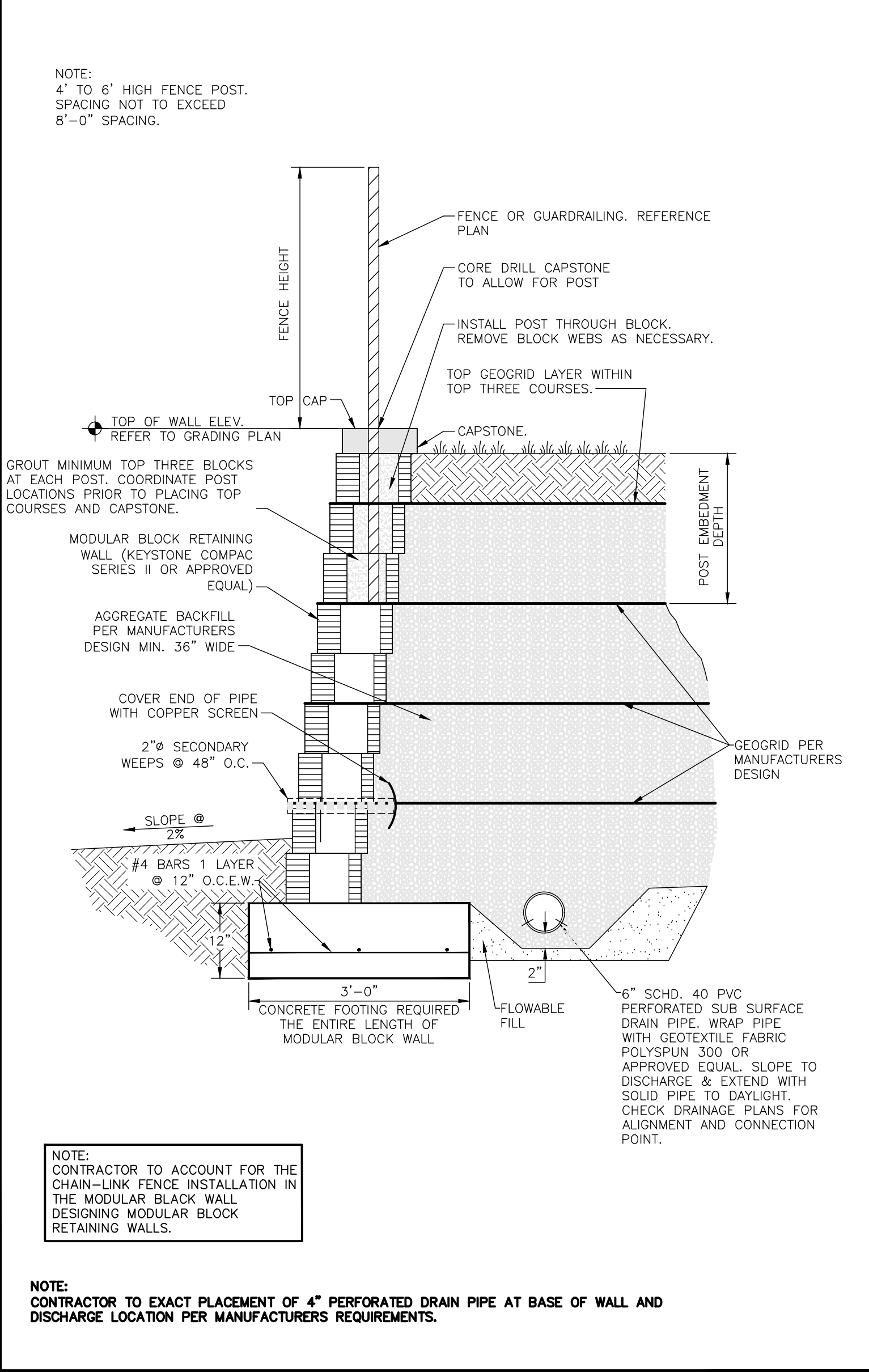


**1 PIPE BEDDING & BACKFILL DETAIL**  
SCALE: NONE

**2 SECTION DETAIL**  
SCALE: NONE

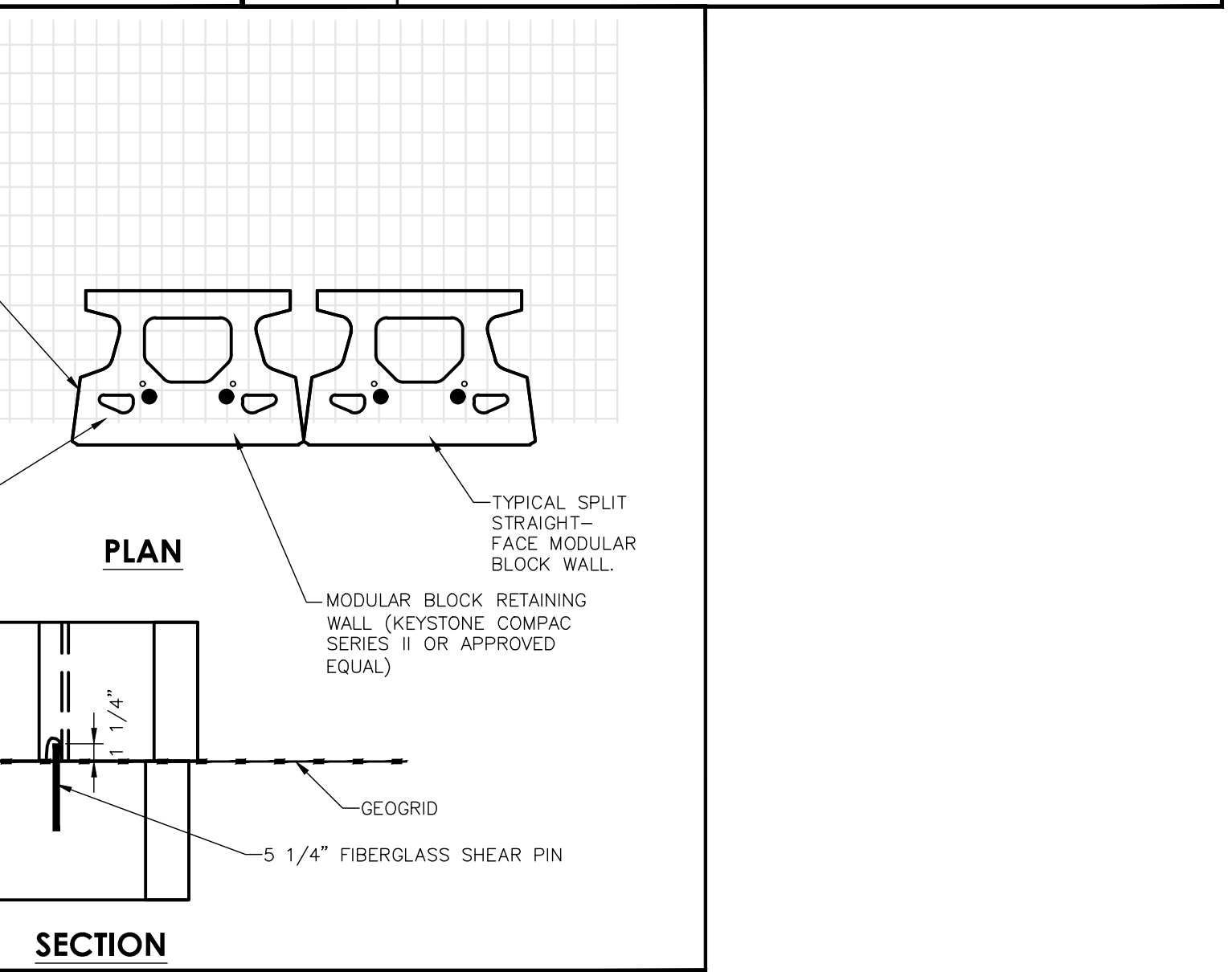
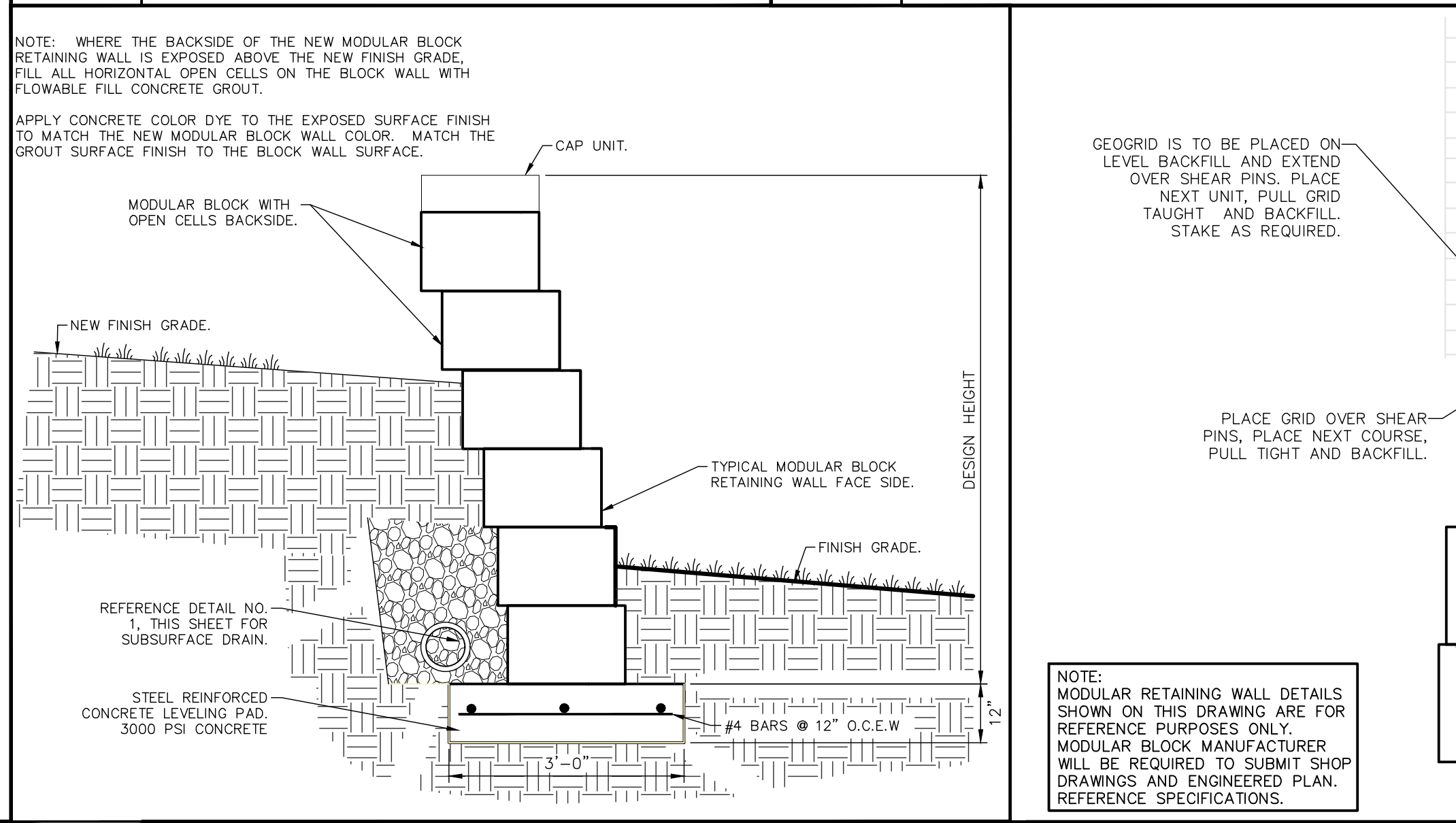
**3 SECTION DETAIL**  
SCALE: NONE

**4 CONCRETE SWALE IN ASPHALT PAVEMENT**  
SCALE: NONE



**6 TOP OF WALL STEPS DETAIL**  
SCALE: NONE

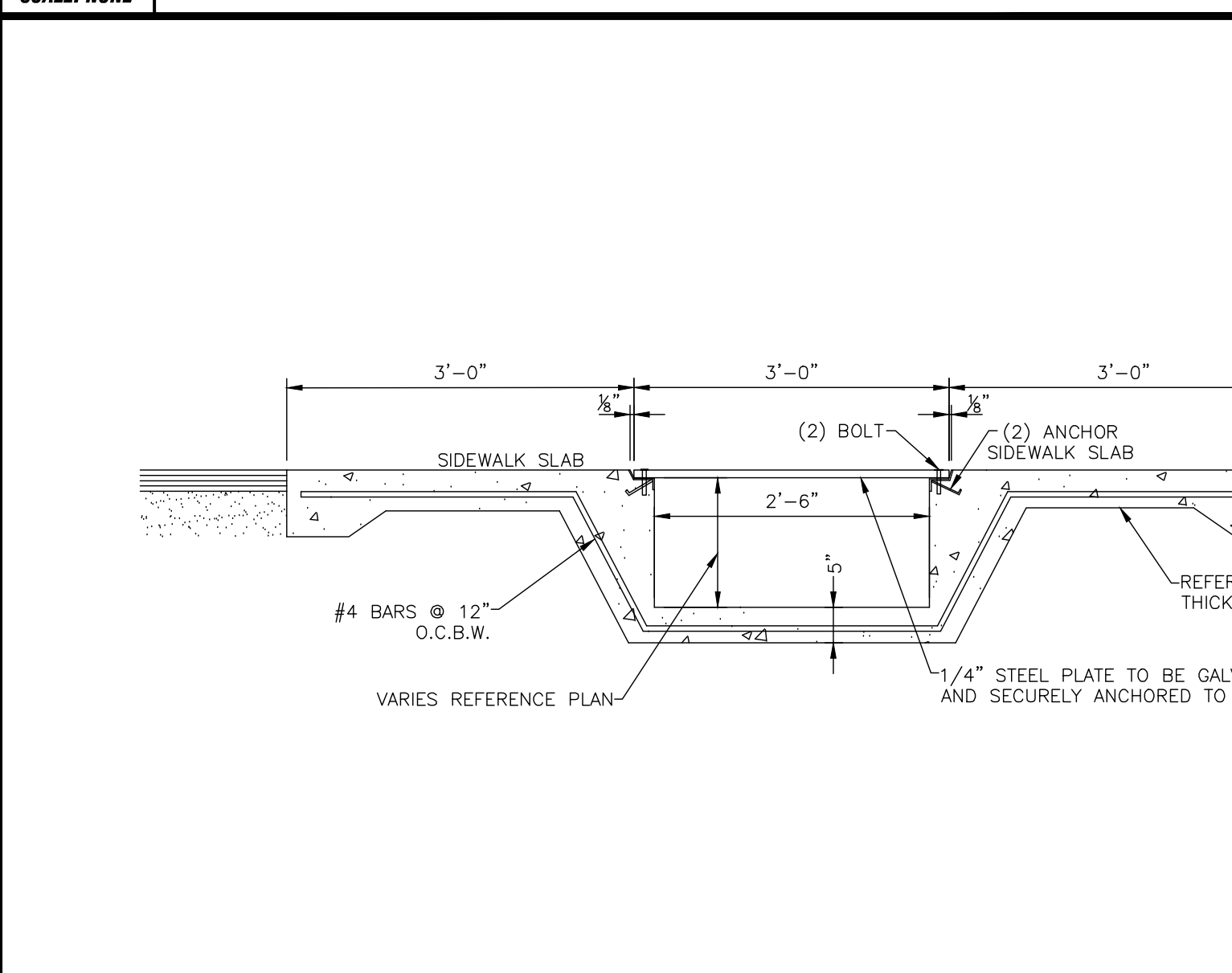
**8 TYPICAL CORNER DETAIL**  
SCALE: NONE



**9 TYPICAL EXPOSED WALL SECTION DETAIL**  
SCALE: NONE

**10 MODULAR CONCRETE UNIT GRID/PIN CONNECTION DETAIL**  
SCALE: NONE

**5 CROSS SECTION DETAIL-RETAINING WALL**  
SCALE: NONE



| HYDRAULIC CALCS.                   | HYDRAULIC CALCS.                   |
|------------------------------------|------------------------------------|
| $Q_{25} = \dots$ cfs               | $Q_{25} = \dots$ cfs               |
| $n = 0.013$                        | $n = 0.013$                        |
| $S_{wp} = 2.0\%$                   | $S_{wp} = 1.0\%$                   |
| $d = 0.25'$                        | $d = 0.25'$                        |
| $A = 1.04$ sf                      | $A = 1.04$ sf                      |
| $P_w = 4.52'$                      | $P_w = 4.52'$                      |
| $V = 5.96$ ft/s                    | $V = 5.96$ ft/s                    |
| CHANNEL CAPACITY<br>$Q = 17.5$ cfs | CHANNEL CAPACITY<br>$Q = 17.5$ cfs |

**11 PUBLIC - SINGLE TRENCH DRAIN DETAIL**  
SCALE: NONE

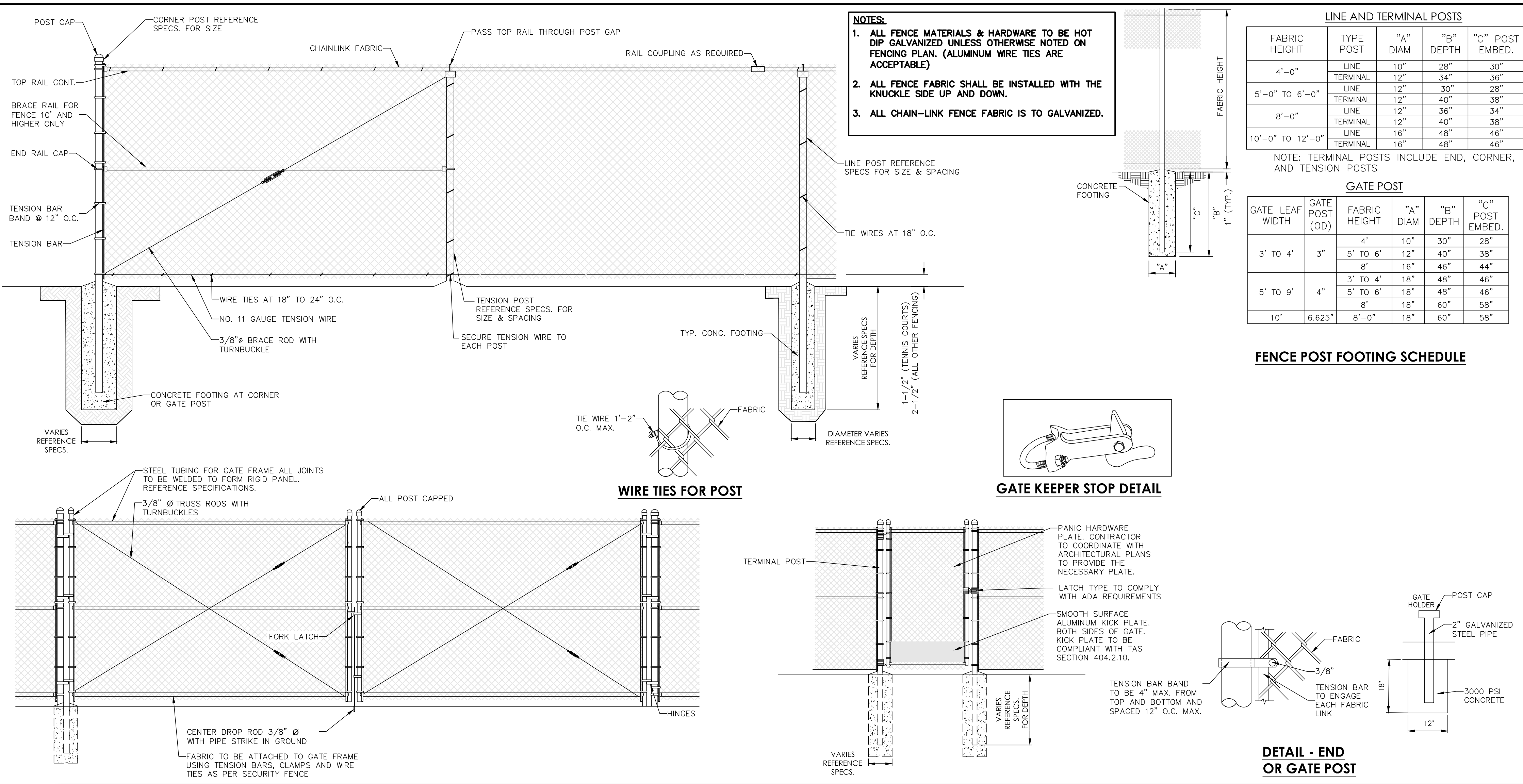
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**MIR**  
Engineers  
Surveyors  
Planners

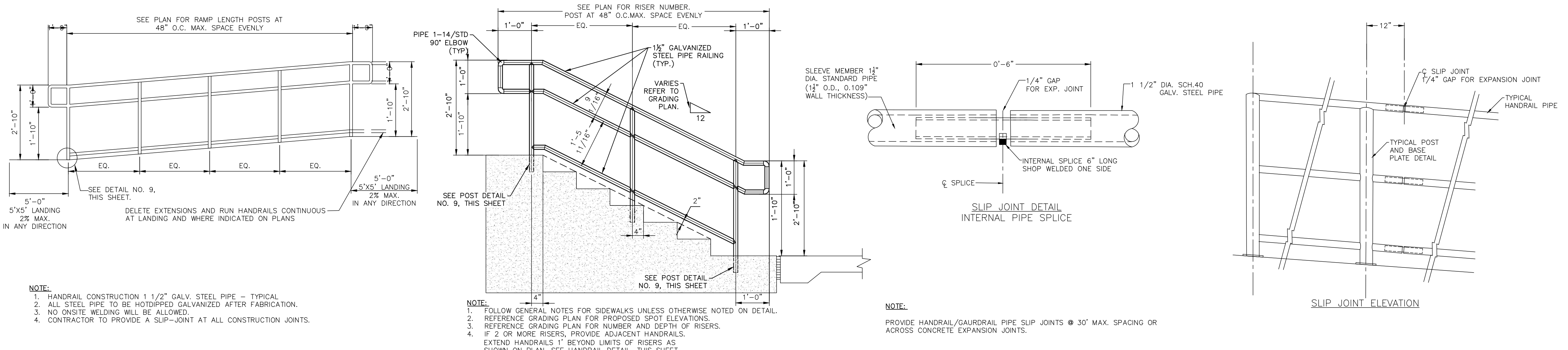
**Moy Tatin Ramirez Engineers, LLC**  
TBELTS: ENGINEERING F-5297/SUPERVISING F-0131500  
12770 CHAMBERLAIN PATH, SUITE 100  
SAN ANTONIO, TEXAS 78249  
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FAX: (210) 698-5085



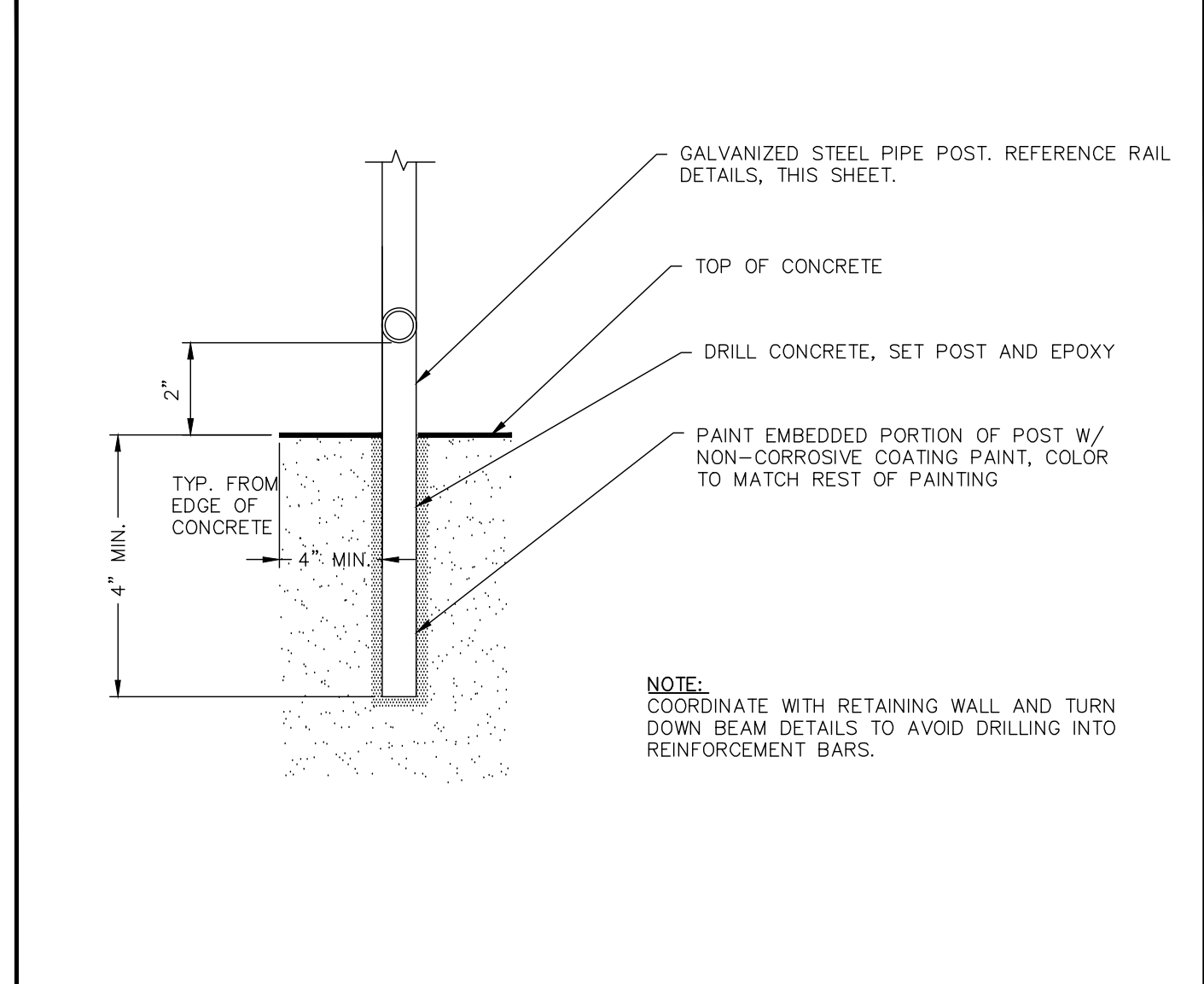




**1 CHAINLINK FENCE DETAILS**  
SCALE: NONE



**2 TYPICAL RAIL AT RAMP AND CONCRETE STEPS WITH SLIP JOINT DETAIL**  
SCALE: NONE



**3 STEEL POST CORE DETAIL**  
SCALE: NONE

| NO. | DATE | DESCRIPTION | BY |
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**Engineers**  
**Surveyors**  
**Planners**

**MIR**

**Moy Tatin Ramirez Engineers, LLC**

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CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION  
DETAILS



## ATTACHMENT N

### INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

#### **ENGINEERED VEGETATIVE FILTER STRIPS**

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

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

accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be removed by hand or with flat-bottomed shovels.

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



RECORD KEEPING

Maintenance and inspection records should be kept on file by the Owner of the permanent BMPs for a period of at least three (3) years. Repair and retrofit records should be kept on file by the Owner of the permanent BMPs for a period of at least five (5) years.

TRENT DEWATERS

Print Name

Trent Dewaters

Signature of Applicant/Owner/Agent

6-2-2023

Date

## **ATTACHMENT P**

### **MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION**

No surface streams exist within the project site. The storm water flows discharging from the site will continue to flow as they currently do. Stormwater from the site will enter off-site surface streams in the same manner that it did prior to the improvements to the site.

Temporary BMPs, as shown on the Site Plan, will be used to minimize sediments leaving the site and flowing into surface streams during construction. There will be no adverse effects to downstream surfaces or streams as a result of completion of the proposed project.





- LEGEND:**
- PROPERTY LINE
  - EXISTING CONTOUR
  - PROPOSED CONTOUR
  - SILT FENCE
  - CHAINLINK FENCE
  - ROCK BERM
  - GRAVEL INLET FILTER
  - STABILIZED CONSTRUCTION EXIT
  - NEW LIGHT DUTY FLEXIBLE PAVEMENT
  - NEW HEAVY DUTY FLEXIBLE PAVEMENT
  - NEW RIGID PAVEMENT
  - NEW CONCRETE SIDEWALK/FLATWORK
  - CONSTRUCTION STAGING AREA
  - CONCRETE WASHOUT PIT
  - DRAINAGE FLOW ARROW

PROJECT AREA = 36.87 ACRES  
 DISTURBED AREA = 5.55 ACRES

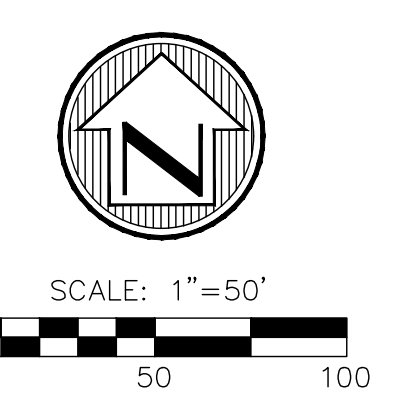
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Engineers  
 Surveyors  
 Planners  
**MTR**  
 Moy Tarin Ramirez Engineers, LLC  
 TPELTS: ENGINEERING F-5297/SURVEYING F-10115100  
 12770 CHARRON PATH, SUITE 100 TEL: (210) 698-5051  
 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085



CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION  
 OVERALL CONTRIBUTING ZONE SITE PLAN





**LEGEND:**

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SILT FENCE
- CHAINLINK FENCE
- ROCK BERM
- GRAVEL INLET FILTER
- STABILIZED CONSTRUCTION EXIT
- NEW LIGHT DUTY FLEXIBLE PAVEMENT
- NEW HEAVY DUTY FLEXIBLE PAVEMENT
- NEW RIGID PAVEMENT
- NEW CONCRETE SIDEWALK/FLATWORK
- CONSTRUCTION STAGING AREA
- CONCRETE WASHOUT PIT
- DRAINAGE FLOW ARROW

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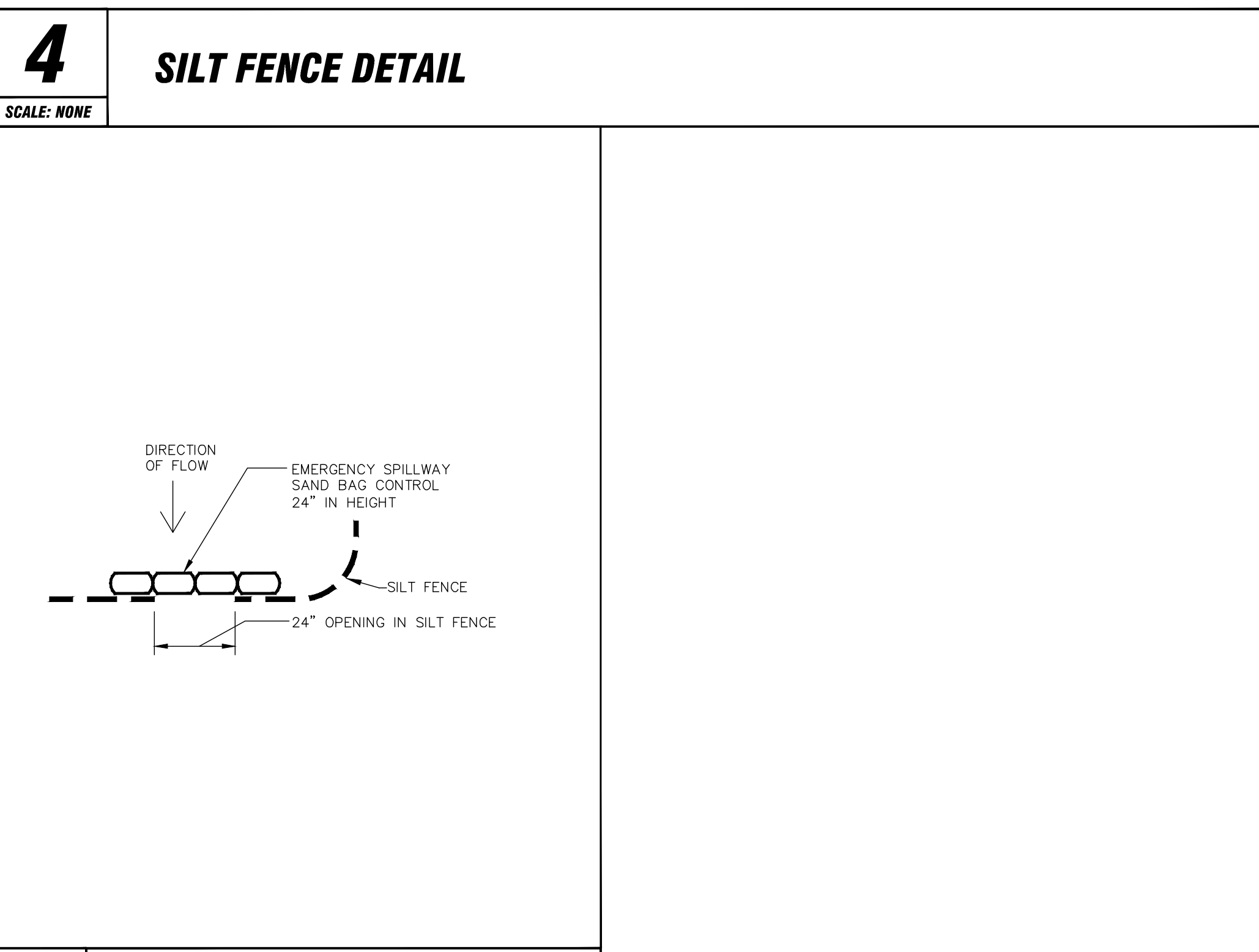
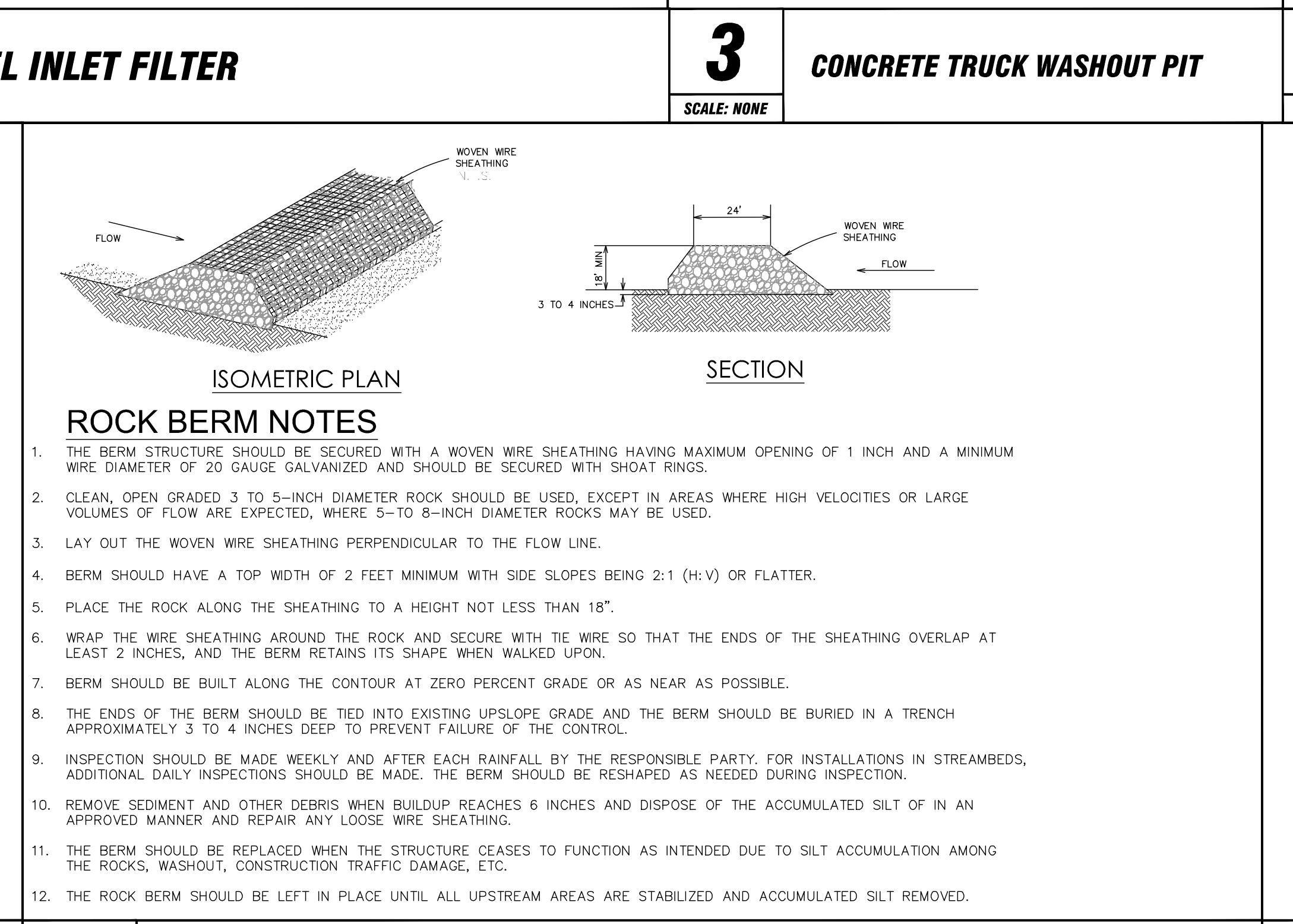
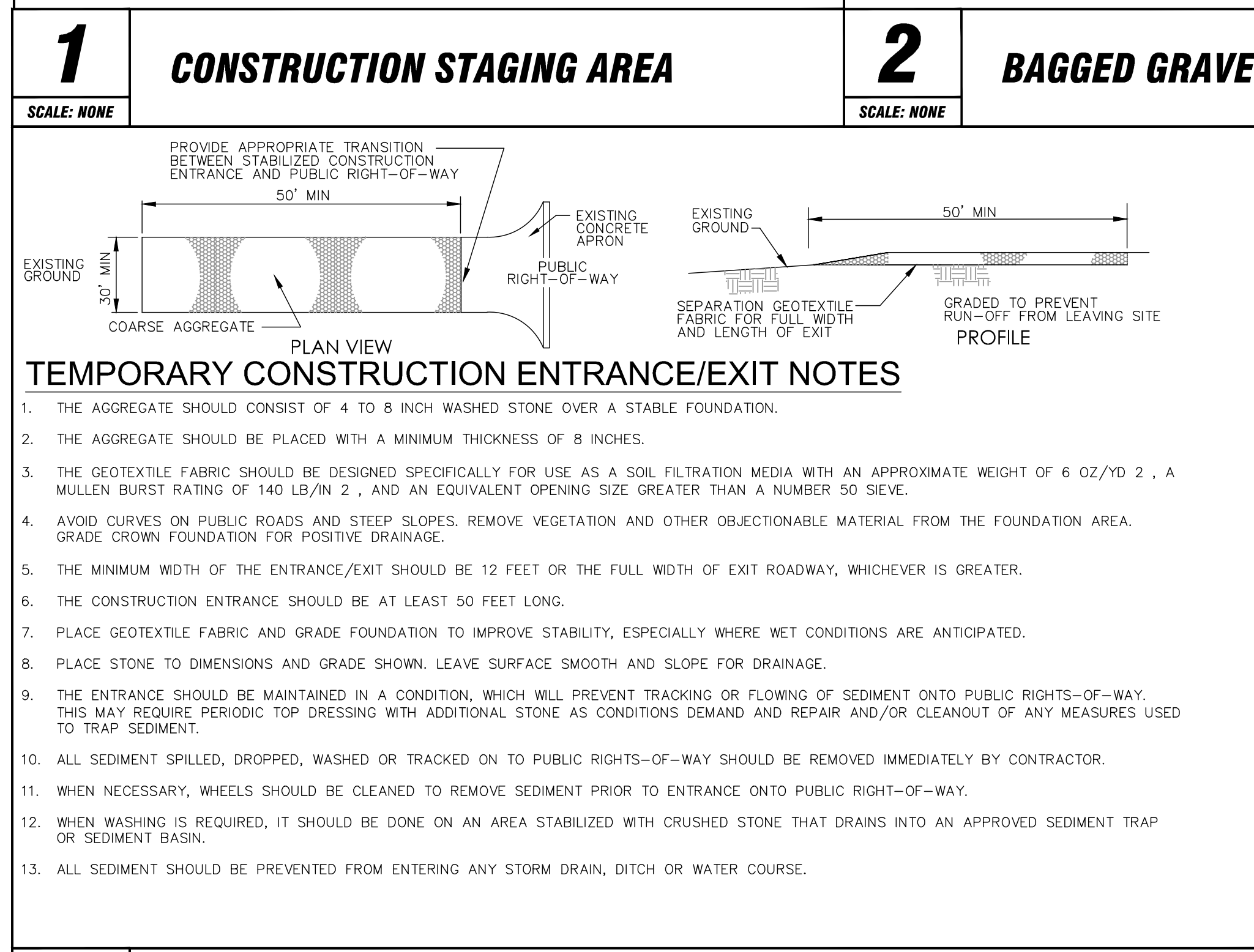
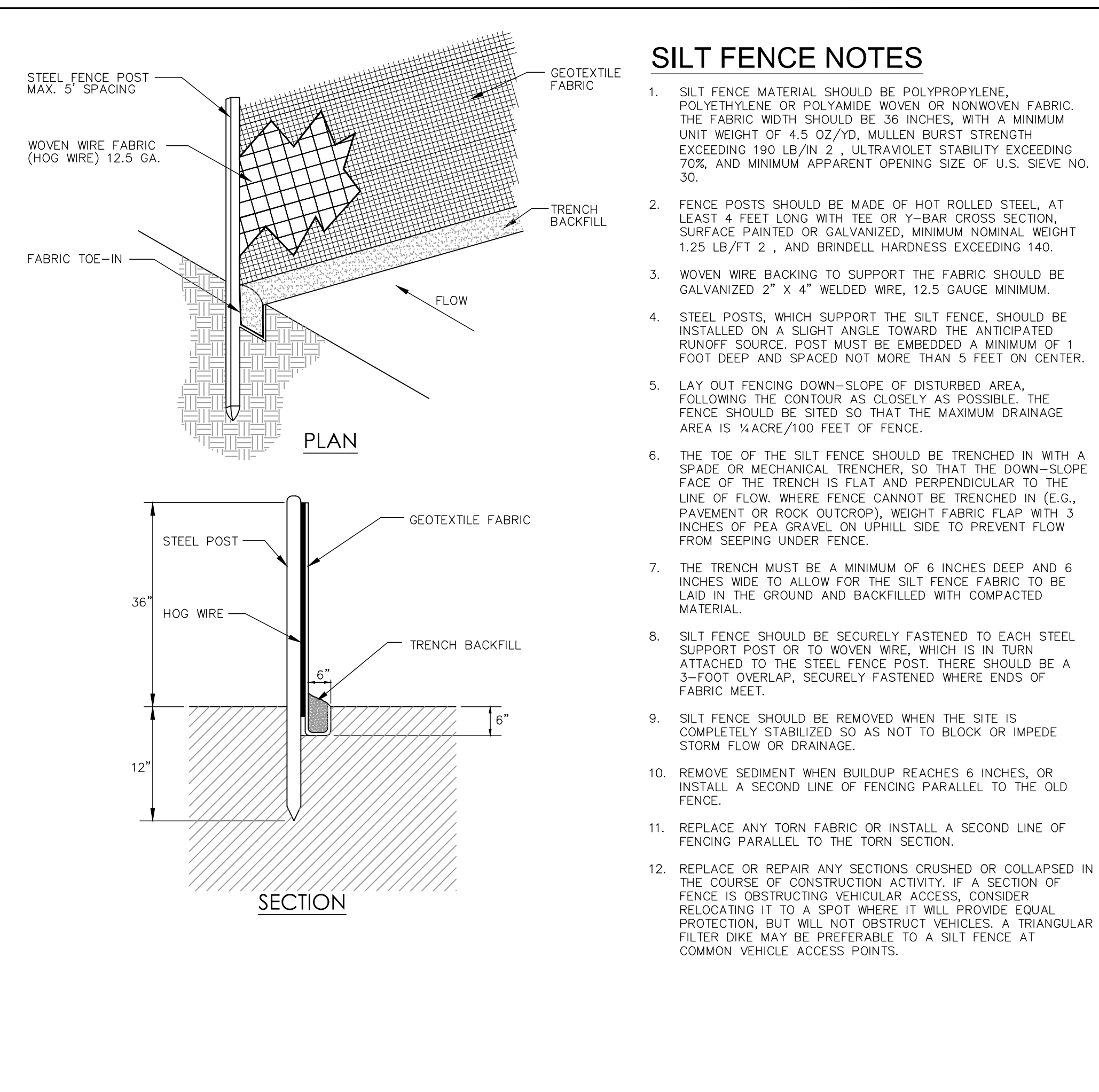
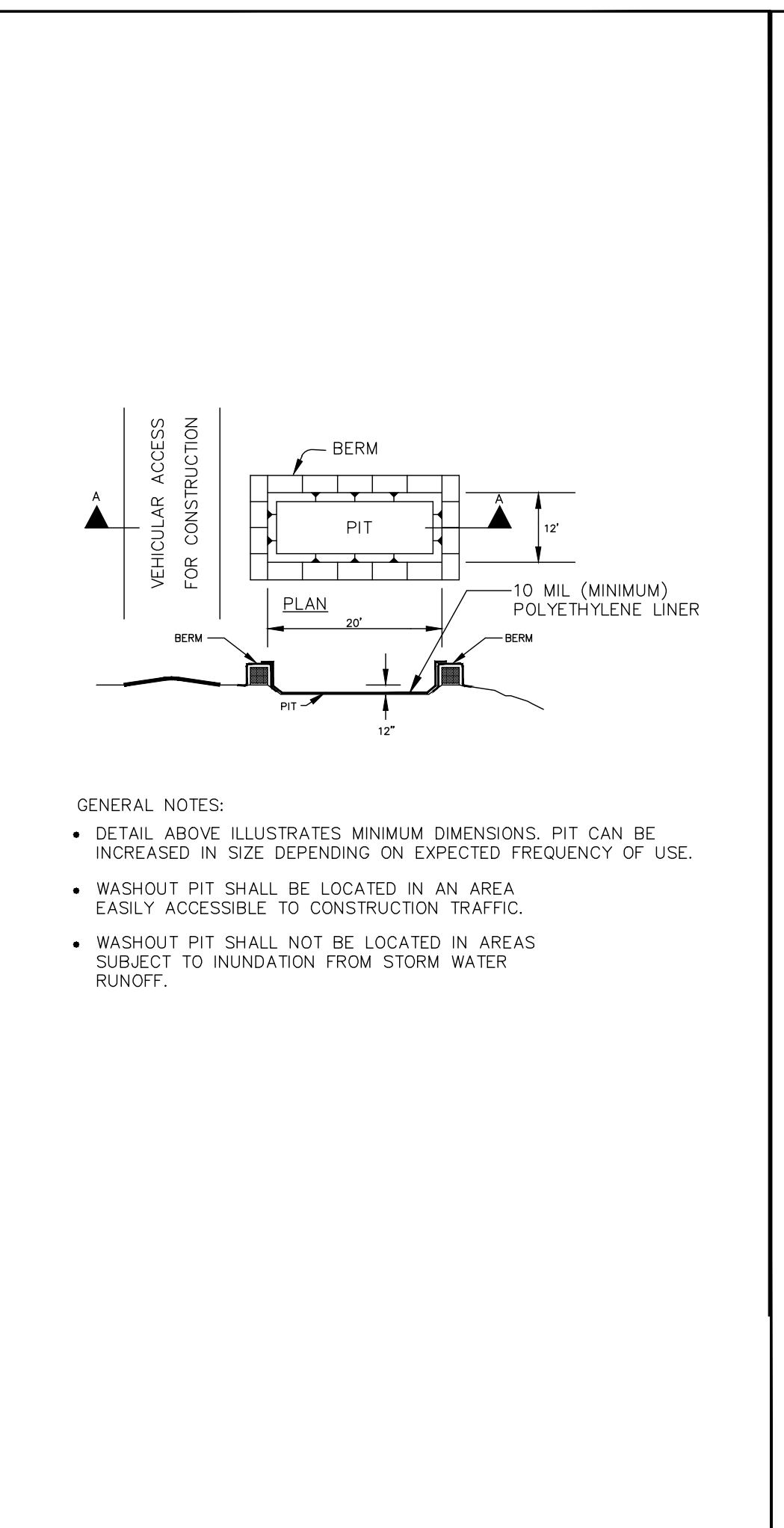
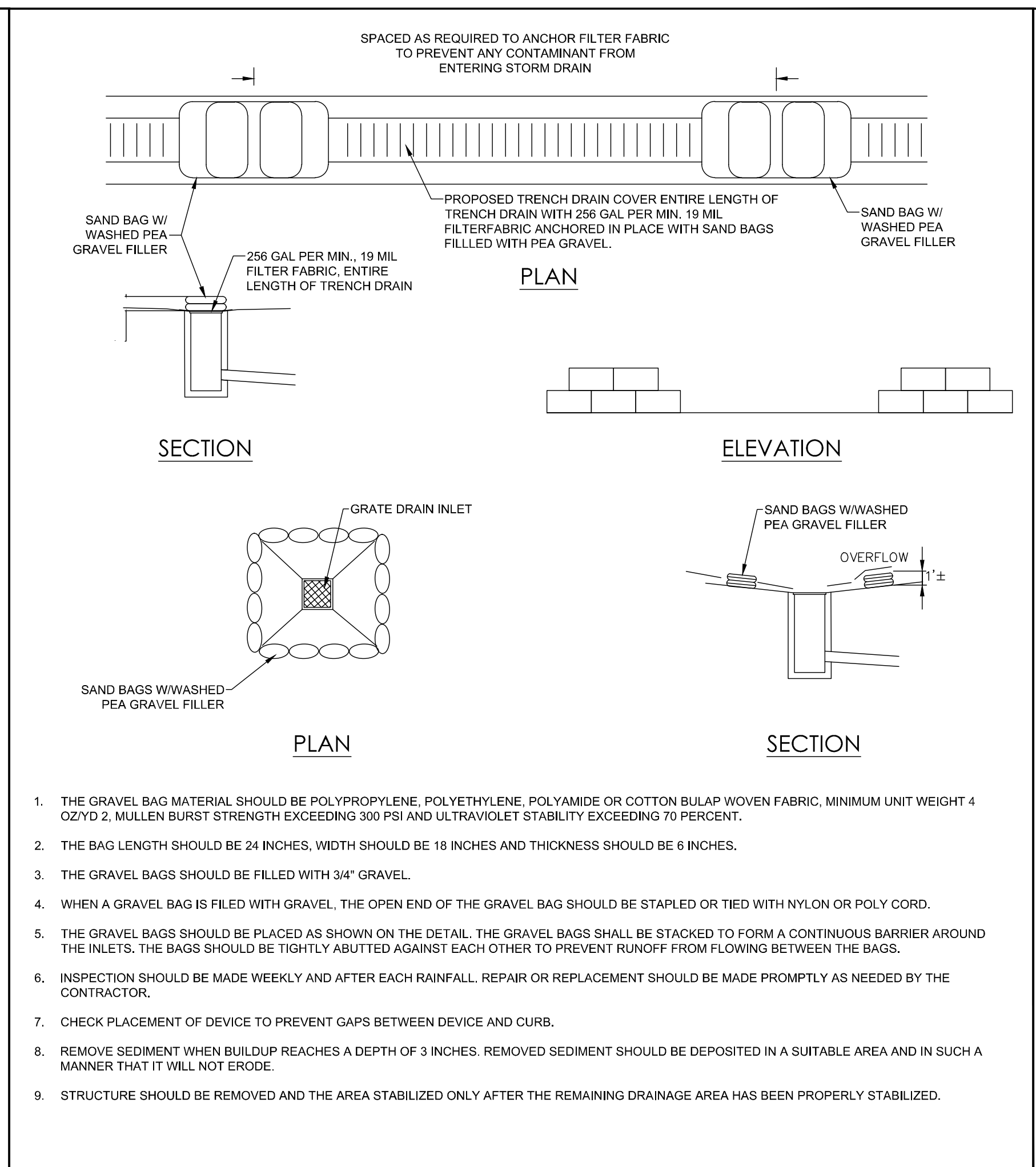
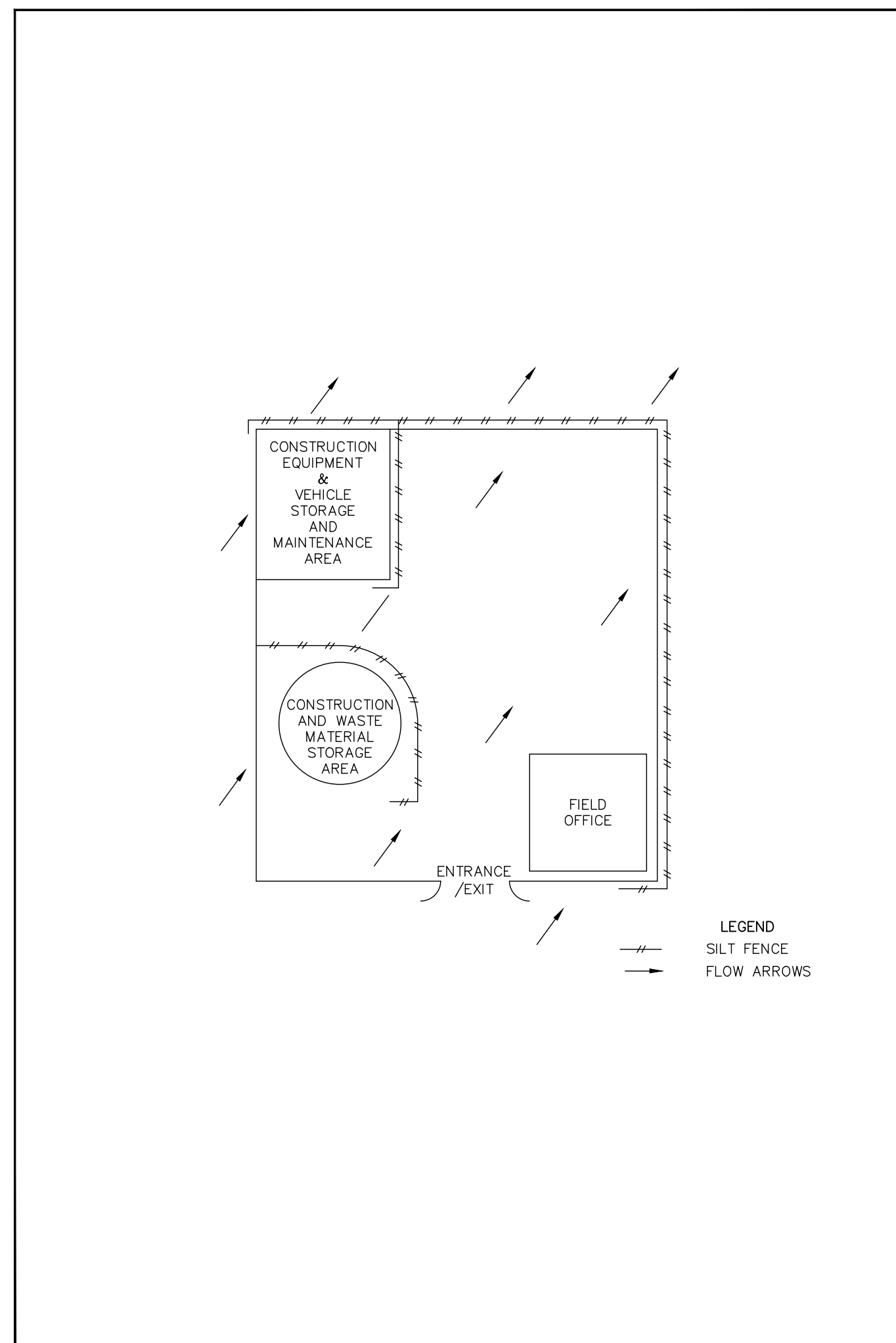
Engineers  
 Surveyors  
 Planners  
**MIR**  
 Moy Tatin Ramirez Engineers, LLC  
 TPELIS: ENGINEERING F-5297/SURVEYING F-10151500  
 12779 CHARRON PATH, SUITE 100  
 SAN ANTONIO, TEXAS 78249  
 TEL: (210) 698-5051  
 FAX: (210) 698-5085



CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION  
 CONTRIBUTING ZONE SITE PLAN

SHEET  
**C1.1**





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**MIR**  
 Engineers  
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 TPELS: ENGINEERING F-5297/SURVEYING F-10151500  
 12770 CAMARON PATH, SUITE 100 TEL: (210) 698-5051  
 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085



CANYON LAKE HS 2023 FIELD DRIVEWAY RECONSTRUCTION  
 CONTRIBUTING ZONE SITE PLAN DETAILS

Field Notes for a Tract of Land  
Containing 36.873 acres (1,606,203.69 square feet)

A 36.873 acre (1,606,203.69 square feet) tract of land situated in the D&SE RR CO Survey Number 929, Abstract Number 785, the Charles Meinenberger Survey Number 124, Abstract Number 420, and the SA&MG RR CO Survey Number 135, Abstract Number 566, Comal County, Texas, being out of an 88.00 acre tract, as conveyed to Comal Independent School District, by General Warranty Deed, as recorded in Document Number 200206036268, of the Official Public Records of Comal County, Texas, said 36.873 acre (1,606,203.69 square feet) tract being more particularly described as follows:

**Beginning** at a 1/2" iron rod with a red plastic cap, having Texas State Plane Coordinates of N:13,891,164.01, E:2,215,624.24, being the north corner of Lot 247 as shown on subdivision plat of The Point at Rancho Del Lago Phase-5, as recorded in Volume 9, Pages 87-89, being on the southeasterly boundary of Lot 1, as shown on subdivision plat of Estates at Rancho Del Lago Phase 4, as recorded in Volume 10, Page 171, as conveyed to Milan and Geraldine Whitman, by Warranty Deed, as recorded in Volume 949, Page 186, all of the Official Public Records of Comal County, Texas, being the west corner of said 88.00 acre, and being the west corner of the herein described tract;

**Thence**, with the northwest boundary of said 88.00 acre, being the southeasterly boundary of said Lot 1, and continuing with the southeasterly boundary of the remainder of a 3,445.7 acre tract, as conveyed to Rancho Del Lago, Inc, by Warranty Deed, as recorded in Volume 586, Page 179, North 59 degrees 44 minutes 34 seconds East, a distance of 800.00 feet to a point having Texas State Plane Coordinates of N:13,891,567.12, E:2,216,315.26, being the north corner of the herein described tract;

**Thence**, leaving the southeasterly boundary of the remainder of said 3,445.7 acre tract, over and across said 88.00 acre tract, South 48 degrees 44 minutes 31 seconds East, a distance of 1,894.58 feet to a point having Texas State Plane Coordinates of N:13,890,317.73, E:2,217,739.51, being on the westerly boundary of the remainder of said 3,445.7 acre tract, being the easterly boundary of said 88.00 acre, and being the east corner of the herein described tract;

**Thence**, leaving the westerly boundary of the remainder of said 3,445.7 acre tract, over and across said 88.00 acre, South 41 degrees 15 minutes 29 seconds West, a distance of 793.40 feet to a point on the northeasterly boundary of Tract 1, as shown on subdivision plat of The Estates at Rancho Del Lago Phase-1, as recorded in Volume 9, Page 325, of the Official Public records of Comal County, Texas, being on the southwesterly boundary of said 88.00 acre, and being the south corner of the herein described tract;



**Thence**, with the northeasterly boundary of said Tract 1, being the southwesterly boundary of said 88.00 acre, North 48 degrees 44 minutes 31 seconds West, passing the north corner of said Tract 1, being the northeast corner of the subdivision platted as The Point at Rancho Del Lago Phase 4, as recorded in Volume 9, Pages 24-25, and continuing said course, passing the north corner of said Phase 4 subdivision, being the southeast corner of the subdivision platted as The Point at Ranch Del Lago Phase 5, as recorded in Volume 9, Pages 87-89, both of the Official Public Records of Comal County, Texas, and continuing said course with the northeasterly boundary of said Phase 5, for a total distance of 2,034.38 feet to a point, being an angle point in the herein described tract;

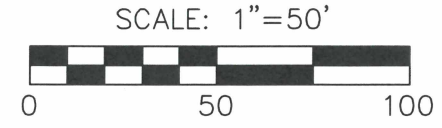
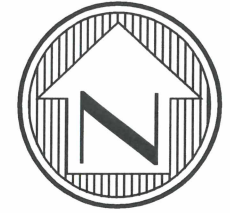
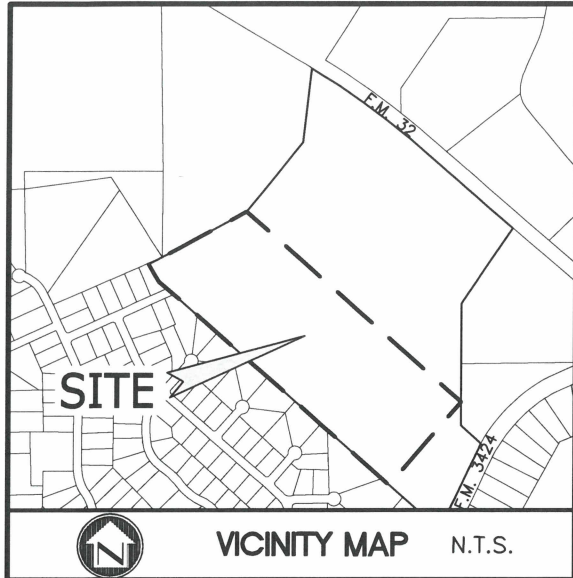
**Thence**, continuing with the northeasterly boundary of said Phase 5 subdivision, being the westerly boundary of said 88.00 acre, North 31 degrees 48 minutes 12 seconds West, a distance of 119.01 feet to the **Point of Beginning**, containing 36.873 acres (1,606,203.69 square feet) of land.

**Note:** Basis of bearings and coordinates cited were established from the State Plane Coordinate System, North American Datum of 1983, Texas South Central Zone. An exhibit of even date was prepared for this description.



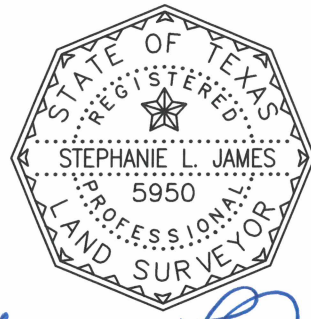
*Stephanie L. James*  
Stephanie L. James, R.P.L.S.  
Registered Professional Land Surveyor  
No. 5950  
Date: 2024-03-07      Job No. 22036  
SL





LEGEND:  
 O.P.R.C.C.T. OFFICIAL PUBLIC RECORDS  
 OF COMAL COUNTY, TEXAS

- KEY NOTES:
- ① THE ESTATES AT RANCHO DEL LAGO PHASE-1  
 VOLUME 9, PAGE 325  
 O.P.R.C.C.T.
  - ② RANCHO DEL LAGO, INC  
 REMAINDER OF 3,445.7 ACRES  
 WARRANTY DEED  
 VOLUME 586, PAGE 179  
 O.P.R.C.C.T.
  - ③ THE ESTATES AT RANCHO DEL LAGO PHASE 4  
 VOLUME 10, PAGE 171  
 O.P.R.C.C.T.



*Stephanie L. James*

**MTR**  
**Moy Tarin Ramirez Engineers, LLC**  
 • Engineers  
 • Surveyors  
 • Planners  
 TBPELS ENGINEERING F-5297/SURVEYING NO. 10131500  
 12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051  
 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

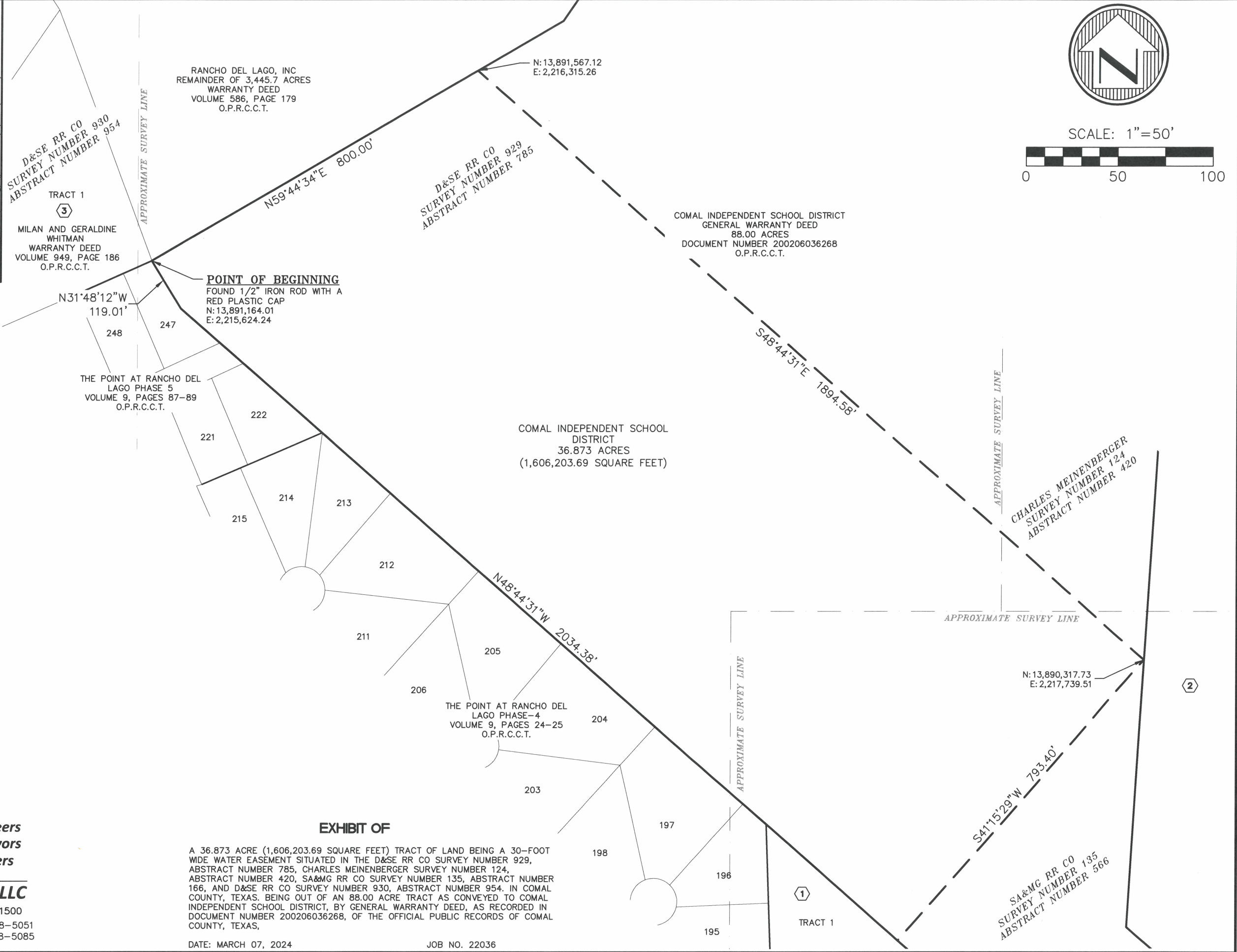


EXHIBIT OF  
 A 36.873 ACRE (1,606,203.69 SQUARE FEET) TRACT OF LAND BEING A 30-FOOT WIDE WATER EASEMENT SITUATED IN THE D&SE RR CO SURVEY NUMBER 929, ABSTRACT NUMBER 785, CHARLES MEINENBERGER SURVEY NUMBER 124, ABSTRACT NUMBER 420, SA&MG RR CO SURVEY NUMBER 135, ABSTRACT NUMBER 166, AND D&SE RR CO SURVEY NUMBER 930, ABSTRACT NUMBER 954. IN COMAL COUNTY, TEXAS. BEING OUT OF AN 88.00 ACRE TRACT AS CONVEYED TO COMAL INDEPENDENT SCHOOL DISTRICT, BY GENERAL WARRANTY DEED, AS RECORDED IN DOCUMENT NUMBER 200206036268, OF THE OFFICIAL PUBLIC RECORDS OF COMAL COUNTY, TEXAS.

VA:22036 Comal ISD Canyon Lake High School - New Ag Barn\drawings\22036 Canyon Lake HS - C7P Mod.dwg 2024/03/07 9:09am sjames



## Parcel Map Check Report

Job No. 22036 (36.873 ac) CZP Esmt.

Point of Beginning: North: 13891164.0090' East: 2215624.2430'

**Segment #1 : Line**

Course: N59° 44' 34"E Length: 800.00'

North: 13891567.1153' East: 2216315.2606'

**Segment #2 : Line**

Course: S48° 44' 31"E Length: 1894.58'

North: 13890317.7316' East: 2217739.5056'

**Segment #3 : Line**

Course: S41° 15' 29"W Length: 793.40'

North: 13889721.2955' East: 2217216.2968'

**Segment #4 : Line**

Course: N48° 44' 31"W Length: 2034.38'

North: 13891062.8705' East: 2215686.9575'

**Segment #5 : Line**

Course: N31° 48' 12"W Length: 119.01'

North: 13891164.0125' East: 2215624.2386'

Perimeter: 5641.37' Area: 1606203.69 Sq. Ft.

Error Closure: 0.0056 Course: N50° 58' 42"W

Error North: 0.00354 East: -0.00437

Precision 1: 1007387.50



# 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: Sean Smith, P.E.

Date: 3/8/24

Signature of Customer/Agent:



Regulated Entity Name: CANYON LAKE HIGH SCHOOL

### 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: Canyon Lake

### ***Temporary Best Management Practices (TBMPs)***

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

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



- A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
  - A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
  - A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
  - A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8.  The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
  - There will be no temporary sealing of naturally-occurring sensitive features on the site.
9.  **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10.  **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
  - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
  - For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
  - There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.



- There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11.  **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- N/A
12.  **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13.  All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14.  If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15.  Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16.  Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

### ***Soil Stabilization Practices***

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

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



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

### ***Administrative Information***

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



**ATTACHMENT A**  
**SPILL RESPONSE ACTIONS**

1. Housekeeping
  - A. Minimize materials: An effort will be made to store only enough materials required to do the job.
  - B. Storage: All materials stored on site will be stored in a neat, orderly manner in their appropriate containers in a covered area. If storage in a covered area is not feasible, then the materials will be covered with polyethylene or polypropylene sheeting to protect them from the elements.
  - C. Labeling: Products will be kept in their original containers with the original manufacturer's label affixed to each container.
  - D. Mixing: Substances will not be mixed with one another unless this is recommended by the manufacturer.
  - E. Disposal: Whenever possible, all of a product will be used prior to disposal of the container. Manufacturer's recommendations will be followed for proper use and disposal of materials on site.
  - F. Inspections: The site superintendent will inspect the site daily to ensure proper use and disposal of materials on site.
  - G. Spoil Materials: Any excavated earth that will not be used for fill material and all demolished pavement will be hauled off site immediately and will be disposed of properly, in accordance with all applicable state/local regulations.
2. Product Specific Practices
  - A. Petroleum Products: All on site vehicles will be monitored for leaks and will receive regular preventive maintenance to reduce the chance of leakage. If petroleum products will be present at the site, then they will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used on site will be applied according to the manufacturer's recommendations.
  - B. Concrete Trucks: Ready/Transit Mix Trucks will not be allowed to wash out or discharge surplus concrete or drum wash water except in the designated location on site as shown on the SWPPP site plan.
  - C. Paints: All containers will be tightly sealed and stored when not required for use. Excess paint will not be poured into storm sewer system or drainage channels, but will be properly disposed of according to manufacturers' instructions or state/local regulations.



- D. Fertilizers: Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The fertilizer will be stored in a covered area, and any partially used bags will be transferred to a sealable plastic bin to avoid spills.

### 3. Spill Control and Response Measures

A spill prevention and response team will be designated by the site superintendent. In addition, the following practices will be followed for spill cleanup:

- A. Information: Manufacturers' recommended methods for spill cleanup will be clearly posted, and site personnel will be made aware of the procedures and location of the information and cleanup supplies.
- B. Equipment: Materials and equipment necessary for spill cleanup will be present on the site at all times. Equipment and materials will include, but not be limited to brooms, shovels, rags, gloves, goggles, absorbent materials (sand, sawdust, etc.) and plastic or metal trash containers specifically designed for this purpose. The materials and equipment necessary for spill cleanup will be dependent upon the nature and quantity of the material stored on site.
- C. Response: All spills will be cleaned up immediately upon discovery.

#### **Cleanup**

- (1) Clean up leaks and spills immediately
- (2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- (3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in TCEQ Technical Guidance Manual RG-348 for specific information.

#### **Minor Spills**

- (1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- (2) Use absorbent materials on small spills rather than hosing down or burying the spill
- (3) Absorbent materials should be promptly removed and disposed of properly.
- (4) Follow the practice below for a minor spill:
- (5) Contain the spread of the spill.
- (6) Recover spilled materials.



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

### **Semi-Significant Spills**

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

Spills should be cleaned up immediately:

- (1) Contain spread of the spill.
- (2) Notify the project foreman immediately.
- (3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
- (4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- (5) If the spill occurs during rain, cover the spill with tarps or other material to prevent contaminating runoff.

### **Significant/Hazardous Spills**

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- (2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110, 119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- (3) Notification should first be made by telephone and followed up with a written report.
- (4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- (5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

#### **D. Vehicle and Equipment Maintenance**

- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.



- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately.
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- (4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters disposed of in trash cans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can be recycled. Ask the oil supplier or recycler about recycling oil filters.
- (9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

E. Vehicle and Equipment Fueling

- (1) If fueling must occur onsite, use designated areas, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.
- (2) Discourage "topping off" of fuel tanks.
- (3) Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.

F. Safety: The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with hazardous substances.

G. Reporting: Spills of toxic or hazardous material (if present on site) will be reported to the appropriate state or local government agency, regardless of the spill's size.

H. Record Keeping: The spill prevention plan will be modified to include measures to prevent this type of spill from recurring as well as improved methods for cleaning up any future spills. A description of each spill, what caused it, and the cleanup measures used will be kept with this plan.



**ATTACHMENT B**  
**POTENTIAL SOURCES OF CONTAMINATION**

|                         |   |
|-------------------------|---|
| <b>Potential Source</b> | Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle dripping.   |
| Preventive Measure      | Vehicle maintenance, when possible, will be performed within a construction staging area specified by the General Contractor.   |
| <b>Potential Source</b> | Miscellaneous trash and litter from construction workers and material wrappings.  |
| Preventive Measure      | Trash containers will be placed throughout the site to encourage proper trash disposal.   |
| <b>Potential Source</b> | Construction debris.  |
| Preventive Measure      | Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case by case basis. |
| <b>Potential Source</b> | Stormwater contamination from excess application of fertilizers, herbicides and pesticides.   |
| Preventive Measure      | Fertilizers, herbicides and pesticides will be applied only when necessary and in accordance with manufacturers directions.   |
| <b>Potential Source</b> | Soil and mud from construction vehicle tires as they leave the site.  |
| Preventive Measure      | A stabilized construction exit shall be utilized as vehicles leave the site. Any soil, mud, etc. carried from the project onto public roads shall be cleaned up within 24 hours.                            |
| <b>Potential Source</b> | Sediment from soil, sand, gravel and excavated materials stockpiled on site.  |
| Preventive Measure      | Silt fence shall be installed on the downgradient side of all stockpiled materials. Reinforced rock berms shall be installed at all downstream discharge locations.   |



## **ATTACHMENT C**

### **SEQUENCE OF MAJOR ACTIVITIES**

#### Construction Sequencing

- A. Installation of temporary BMPs as shown on the CZP Site Plan. Silt fence will be placed along the down gradient boundary.
- B. Demolition and grading.
- C. Seeding and soil stabilization.



**ATTACHMENT D**  
**TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES**

Description of Temporary Best Management Practices:

Vegetation will be used as a temporary stabilization technique for all areas disturbed by construction, not covered in pavement, buildings, or other structures.

Sequence of installation during construction process for each phase of construction:

Vegetation as a temporary control will only be utilized in the event a disturbed area has been left denuded for more than 14 days.

Up gradient storm water flowing across the site:

There is minimum upgradient flow entering the construction area. All upgradient flow will be treated along with the stormwater generated onsite.

Onsite storm water flowing across and off the site:

The storm water originating onsite and flowing off the site will be treated through temporary BMPs. Silt fences will be installed at all locations where non-concentrated storm water exits the site.

Prevention of pollutants from entering surface streams, sensitive features and the aquifer:

The storm water originating onsite and flowing off the site will be treated using temporary BMPs prior to it entering surface streams, sensitive features and the aquifer. Silt fences will be installed at all locations where non-concentrated storm water may leave the site. These silt fences should filter the storm water prior to it leaving the site.

Maintaining flow to naturally-occurring sensitive features:

The storm water originating onsite and flowing off the site will continue to flow into the down gradient receiving waters. Any sensitive features downstream will continue to receive flow originating on the site. Prior to the flow leaving the site, it will be treated through temporary BMPs. These temporary BMPs should remove sediment, pollutants and debris if installed and maintained properly.



**ATTACHMENT F**  
**STRUCTURAL PRACTICES**

Vegetation will be used as a temporary stabilization technique for all areas disturbed by construction, not covered by pavement, buildings, or other structures. Temporary stabilization shall consist of temporary seeding of disturbed areas that are denuded beyond 14 days without construction restart within 21 days. As a temporary control, the vegetation will be used to stabilize barren areas that are inactive for long periods of time.



**ATTACHMENT I**  
**INSPECTION AND MAINTENANCE FOR BMPS**

Silt Fence

1. Inspect all fencing weekly, and after any rainfall.
2. Remove sediment when buildup reaches 6 inches, or install a second line of fencing parallel to the old fence.
3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
4. Replace or repair any sections crushed or collapsed in the course of construction activity.

Bagged Gravel Inlet Filter

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



**CISD CANYON LAKE HIGH SCHOOL**

**Responsible Party Form**

---

| Pollution Prevention Measure       |                           | Inspected | Corrective Action |                |
|------------------------------------|---------------------------|-----------|-------------------|----------------|
|                                    |                           |           | Description       | Date Completed |
| <b>Silt Fence</b>                  | Inspections               |           |                   |                |
|                                    | Fencing                   |           |                   |                |
|                                    | Sediment Removal          |           |                   |                |
|                                    | Torn Fabric               |           |                   |                |
|                                    | Crushed/Collapsed Fencing |           |                   |                |
| <b>Bagged Gravel Inlet Filters</b> | Inspections               |           |                   |                |
|                                    | Replaced/Reshaped         |           |                   |                |
|                                    | Silt Removed              |           |                   |                |

\_\_\_\_\_  
Inspector's Name

\_\_\_\_\_  
Inspector's Signature

\_\_\_\_\_  
Name of Owner/Operator

\_\_\_\_\_  
Date

*Note: Inspector is to attach a brief statement of his qualifications to this report.*



**ATTACHMENT J**  
**SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES**

Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 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 14<sup>th</sup> day after construction activity temporarily or permanently ceases is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of the site. In areas experiencing droughts where the initiation of stabilization measures by the 14<sup>th</sup> day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

Temporary stabilization shall consist of temporary seeding of disturbed areas that are denuded beyond 14 days without construction restart within 21 days.

As pad sites (buildings, sidewalks and pavement) are completed, permanent landscaping and sod shall be planted and irrigated. Curb and gutter will direct runoff into the permanent water quality basin.

Temporary vegetation stabilization techniques shall be in accordance with the TCEQ Technical Guidance Manual RG-248 (*Complying with the Edwards Aquifer Rules – Technical Guidance on Best Management Practices*), Chapter 1 Temporary Best Management Practices, Section 1.3.8 Temporary Vegetation, as follows:

**Temporary Vegetation**

Vegetation is used as a temporary or permanent stabilization technique for areas disturbed by construction, but not covered by pavement, buildings, or other structures. As a temporary control, vegetation can be used to stabilize stockpiles and barren areas that are inactive for long periods of time.

Vegetative techniques can and should apply to every construction project with few exceptions. Vegetation effectively reduces erosion in swales, stockpiles, berms, mild to medium slopes, and along roadways.

Other techniques may be required to assist in the establishment of vegetation. These other techniques include erosion control matting, mulches, surface roughening, swales and dikes to direct runoff around newly seeded areas, and proper grading to limit runoff velocities during construction. (NCTCOG, 1993b)



**Materials:**

The type of temporary vegetation used on a site is a function of the season and the availability of water for irrigation. For areas that are not irrigated, the year can be divided into two temporary planting seasons and one season for planting of permanent warm weather groundcovers. These periods are shown in Figure 1-19 for Bexar, Comal, Kinney, Medina, and Uvalde Counties. Appropriate temporary vegetation for these areas is shown in Table 1-4.

Other vegetation may perform as well as the recommended varieties, especially where irrigation is available. County agricultural extension agents are a good source for suggestions for other types of temporary vegetation. All seed should be high quality, U.S. Dept. of Agriculture certified seed.

**Installation:**

(1) Interim or final grading must be completed prior to seeding, minimizing all steep slopes. In addition, all necessary erosion structures such as dikes, swales, and diversions, should also be installed.

(2) Seedbed should be well pulverized, loose, and uniform.

(3) Fertilizer should be applied at the rate of 40 pounds of nitrogen and 40 pounds of phosphorus per acre, which is equivalent to about 1.0 pounds of nitrogen and phosphorus per 1000 square feet. Compost can be used instead of fertilizer and applied at the same time as the seed.



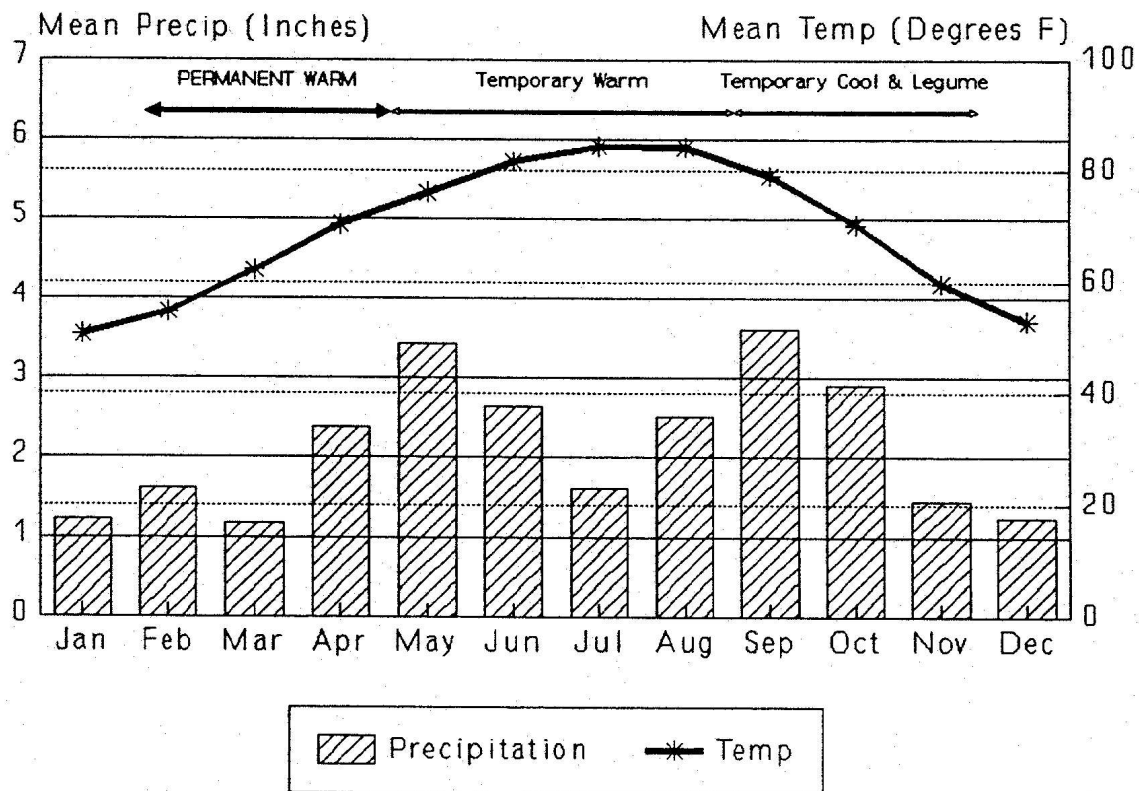


Figure 1-19 Planting Dates for Bexar, Comal, Kinney, Medina, and Uvalde Counties (Northcutt, 1993)

Table 1-4 Temporary Seeding for Bexar, Comal, Kinney, Medina, and Uvalde Counties (Northcutt, 1993)

| Dates            | Climate               | Species (lb/ac)          |
|------------------|-----------------------|--------------------------|
| Sept 1 to Nov 30 | Temporary Cool Season | Tall Fescue 4.0          |
|                  |                       | Oats 21.0                |
|                  |                       | Wheat (Red, Winter) 30.0 |
|                  |                       | <b>Total 55.0</b>        |
| Sept 1 to Nov 30 | Cool Season Legume    | Hairy Vetch 8.0          |
| May 1 to Aug 31  | Temporary Warm Season | Foxtail Millet 30.0      |

(4) Seeding rates should be as shown in Table 1-4 or as recommended by the county agricultural extension agent.

(5) The seed should be applied uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed, fertilizer and binder).



(6) Slopes that are steeper than 3:1 should be covered with appropriate soil stabilization matting as described in the following section to prevent loss of soil and seed.

**Irrigation:**

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

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

If cool weather induces plant dormancy, water only as necessary to maintain plant health.

Irrigate in a manner that will not erode the topsoil but will sufficiently soak the entire depth of roots.

**Inspection and Maintenance Guidelines:**

(1) Temporary vegetation should be inspected weekly and after each rain event to locate and repair any erosion.

(2) Erosion from storms or other damage should be repaired as soon as practical by regrading the area and applying new seed.

(3) If the vegetated cover is less than 80%, the area should be reseeded.



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

I John E. Chapman III,  
Print Name

Superintendent,  
Title - Owner/President/Other

of Comal Independent School District,  
Corporation/Partnership/Entity Name

have authorized Moy Tarin Ramirez Engineers, LLC  
Print Name of Agent/Engineer

of Moy Tarin Ramirez Engineers, LLC  
Print Name of Firm

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

I also understand that:

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



SIGNATURE PAGE:

[Handwritten Signature]  
Applicant's Signature

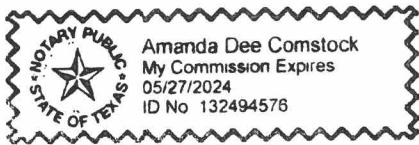
2.28.2024  
Date

THE STATE OF Texas §

County of Comal §

BEFORE ME, the undersigned authority, on this day personally appeared Dr. John Chapman 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 28<sup>th</sup> day of February, 2024



Amanda Dee Comstock  
NOTARY PUBLIC

AMANDA DEE COMSTOCK  
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 5/27/24



# Application Fee Form

**Texas Commission on Environmental Quality**

Name of Proposed Regulated Entity: CISD Canyon Lake High School  
 Regulated Entity Location: 8555 Farm to Market 32, Fischer, TX 78623  
 Name of Customer: Comal ISD  
 Contact Person: Jeffery Smith Phone: (830) 221-2150  
 Customer Reference Number (if issued): CN 600249825  
 Regulated Entity Reference Number (if issued): RN 104421649  
**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 12100 Park 35 Circle  
 Mail Code 214 Building A, 3rd Floor  
 P.O. Box 13088 Austin, TX 78753  
 Austin, TX 78711-3088 (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<br>Plan: One Single Family Residential Dwelling       | Acres       | \$          |
| Water Pollution Abatement Plan, Contributing Zone<br>Plan: Multiple Single Family Residential and Parks | Acres       | \$          |
| Water Pollution Abatement Plan, Contributing Zone<br>Plan: Non-residential                              | 36.87 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: 3/8/24



# 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***

| <b><i>Project</i></b>   | <b><i>Project Area in Acres</i></b> | <b><i>Fee</i></b> |
|---|-------------------------------------|-------------------|
| 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***

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

### ***Underground and Aboveground Storage Tank System Facility Plans and Modifications***

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

### ***Exception Requests***

| <b><i>Project</i></b> | <b><i>Fee</i></b> |
|-----------------------|-------------------|
| Exception Request     | \$500             |

### ***Extension of Time Requests***

| <b><i>Project</i></b>     | <b><i>Fee</i></b> |
|---------------------------|-------------------|
| 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

|  |   |   |
|--|---|---|
| <b>1. Reason for Submission</b> (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  |   |
| <b>2. Customer Reference Number</b> (if issued)  | <a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a> | <b>3. Regulated Entity Reference Number</b> (if issued) |
| CN 600249825   |   | RN 104421649  |

## SECTION II: Customer Information

|   |  |  |  |
|---|--|--|--|
| <b>4. General Customer Information</b>  |  | <b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy) |  |
| <input type="checkbox"/> New Customer   |  | <input type="checkbox"/> Update to Customer Information                |  |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)  |  | <input type="checkbox"/> Change in Regulated Entity Ownership          |  |
| <b>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).</b> |  |  |  |
| <b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)  |  | <i>If new Customer, enter previous Customer below:</i>                 |  |
|   |  |  |  |
| <b>7. TX SOS/CPA Filing Number</b>  | <b>8. TX State Tax ID</b> (11 digits)        | <b>9. Federal Tax ID</b> (9 digits)                                    | <b>10. DUNS Number</b> (if applicable)   |
|   |  |  |  |
| <b>11. Type of Customer:</b>  | <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:  |  |
| <b>12. Number of Employees</b>  |  | <b>13. Independently Owned and Operated?</b>                           |  |
| <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               |  |
| <b>14. Customer Role</b> (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"/> Occupational Licensee  |  | <input type="checkbox"/> Owner & Operator                              |  |
| <input type="checkbox"/> Responsible Party  |  | <input type="checkbox"/> Voluntary Cleanup Applicant                   |  |
| <input type="checkbox"/> Other:   |  |  |  |
| <b>15. Mailing Address:</b>   |  |  |  |
|   | City   | State  | ZIP  |
|   |  | ZIP + 4  |  |
| <b>16. Country Mailing Information</b> (if outside USA)   |  | <b>17. E-Mail Address</b> (if applicable)                              |  |
|   |  |  |  |
| <b>18. Telephone Number</b>   |  | <b>19. Extension or Code</b>   |  |
| ( ) -   |  |  |  |
|   |  | <b>20. Fax Number</b> (if applicable)                                  |  |
|   |  | ( ) -  |  |

## SECTION III: Regulated Entity Information

|  |  |
|--|--|
| <b>21. General Regulated Entity Information</b> (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 |  |
| <b>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).</b>     |  |
| <b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)  |  |
| CISD CANYON LAKE HIGH SCHOOL   |  |



|   |                        |         |       |    |     |       |         |
|---|------------------------|---------|-------|----|-----|-------|---------|
| 23. Street Address of the Regulated Entity:<br><i>(No PO Boxes)</i> | 8555 Farm to Market 32 |         |       |    |     |       |         |
|   | City                   | Fischer | State | TX | ZIP | 78623 | ZIP + 4 |
| 24. County  | Comal                  |         |       |    |     |       |         |

Enter Physical Location Description if no street address is provided.

|   |   |  |  |            |         |       |                  |
|---|---|--|--|------------|---------|-------|------------------|
| 25. Description to Physical Location:   | On the east side of the intersection of FM 32 and FM 3424 |  |  |            |         |       |                  |
| 26. Nearest City  | Fischer   |  |  |            | State   | TX    | Nearest ZIP Code |
| 27. Latitude (N) In Decimal:  | 29.944130   |  | 28. Longitude (W) In Decimal:            | -98.213280 |         |       |                  |
| Degrees   | Minutes   | Seconds                                | Degrees                                  | Minutes    | Seconds |       |                  |
| 29  | 56  | 38.868                                 | 98                                       | 12         | 47.808  |       |                  |
| 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) |            |         |       |                  |
| 8211  |   | 611110                                 |  |            |         |       |                  |
| 33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i> |   |  |  |            |         |       |                  |
| High School   |   |  |  |            |         |       |                  |
| 34. Mailing Address:  | 8555 Farm to Market 32                                    |  |  |            |         |       |                  |
|   | City  | Fischer                                | State                                    | TX         | ZIP     | 78623 | ZIP + 4          |
| 35. E-Mail Address:   | jeffery.smith@comalisd.org                                |  |  |            |         |       |                  |
| 36. Telephone Number  | 37. Extension or Code                                     |  | 38. Fax Number <i>(if applicable)</i>    |            |         |       |                  |
| ( 830 ) 221-2150  |   |  | ( ) -                                    |            |         |       |                  |

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.

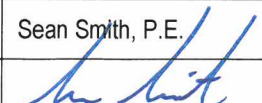
|  |  |   |  |   |
|--|--|---|--|---|
| <input type="checkbox"/> Dam Safety            | <input type="checkbox"/> Districts             | <input checked="" type="checkbox"/> Edwards Aquifer | <input type="checkbox"/> Emissions Inventory Air | <input type="checkbox"/> Industrial Hazardous Waste |
| <input 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 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:            | Sean Smith, P.E. | 41. Title:       | Senior Vice President   |
| 42. Telephone Number | 43. Ext./Code    | 44. Fax Number   | 45. E-Mail Address      |
| ( 210 ) 698-5051     |                  | ( 210 ) 698-5085 | ssmith@mtrengineers.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:                 | Moy Tarin Ramirez Engineers, LLC  | Job Title: | Senior Vice President |
| Name <i>(In Print)</i> : | Sean Smith, P.E.  | Phone:     | ( 210 ) 698- 5051     |
| Signature:               |  | Date:      | 3/8/24                |