CONTRIBUTING ZONE
PLAN EXCEPTION REQUEST
FOR
CISD SMITHSON VALLEY MIDDLE SCHOOL AND HILL COUNTRY TRANSPORTATION

PREPARED FOR:

COMAL ISD
Comal Independent School District

DATE: March 2025

PREPARED BY:

MTR
• Engineers
• Surveyors
• Planners

Moy Tarin Ramirez Engineers, LLC

12770 Cimarron Path, Ste 100 San Antonio, TX 78249
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CISD SMITHSON VALLEY MIDDLE SCHOOL AND HILL COUNTRY TRANSPORTATION
CONTRIBUTING ZONE PLAN EXCEPTION REQUEST

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Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

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

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

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

Technical Review

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

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.
3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or if not withdrawn the application will be denied and the application fee will be forfeited.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

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

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

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

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

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

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

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

1. Regulated Entity Name: CISD Smithson Valley Middle School and Hill Country Transportation					**2. Regulated Entity No.: 101251981**			
3. Customer Name: Comal ISD					**4. Customer No.: 600249825**			
5. Project Type: **(Please circle/check one)**	New	Modification			Extension	Exception		
6. Plan Type: **(Please circle/check one)**	WPAP CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential	Non-residential			**8. Site (acres):**		60.0 acres	
9. Application Fee:	$500	**10. Permanent BMP(s):**			2x Sedimentation/Filtration Basins			
11. SCS (Linear Ft.):	N/A	**12. AST/UST (No. Tanks):**			4x – Existing (CZP Mod #2)			
13. County:	Comal	**14. Watershed:**			Guadalupe River-Canyon Lake			

Application Distribution

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

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

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

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

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Sean Smith, P.E.
Print Name of Customer/Authorized Agent
Signature of Customer/Authorized Agent — Date: 3/21/25

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

Contributing Zone Exception Request Form

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 Exception Request Form** 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: 3/21/25

Signature of Customer/Agent:

Regulated Entity Name: CISD Smithson Valley Middle School and Hill Country Transportation

Project Information

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

   Contact Person: Jeffrey Smith
   Entity: Comal Independent School District
   Mailing Address: 1404 IH 35 North
   City, State: New Braunfels, TX Zip: 78130
   Telephone: (830) 221-2101 Fax: _____
   Email Address: jeffrey.smith@comalisd.org

5. Agent/Representative (If any):

   Contact Person: Sean Smith, P.E.
   Entity: Moy Tarin Ramirez Engineers, LLC
   Mailing Address: 12770 Cimarron Path, Suite 100
   City, State: San Antonio, TX Zip: 78249
   Telephone: (210) 698-5051 Fax: _____
   Email Address: ssmith@mtrengineers.com

6. Project Location

   ☐ This project is inside the city limits of _____.
   ☐ This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
   ☒ This project is not located within any city 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.

   6101 FM 311, Spring Branch, TX 78070;
   Approx. 1 mile north of the intersection of FM 311 & FM 3159

8. ☒ **Attachment A - Road Map**. A road map showing directions to and 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 USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) should clearly show:

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

10. ☒ **Attachment C - Project Narrative**. A detailed narrative description of the proposed project is provided at the end of this form. 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 Middle School and Transportation Center Site

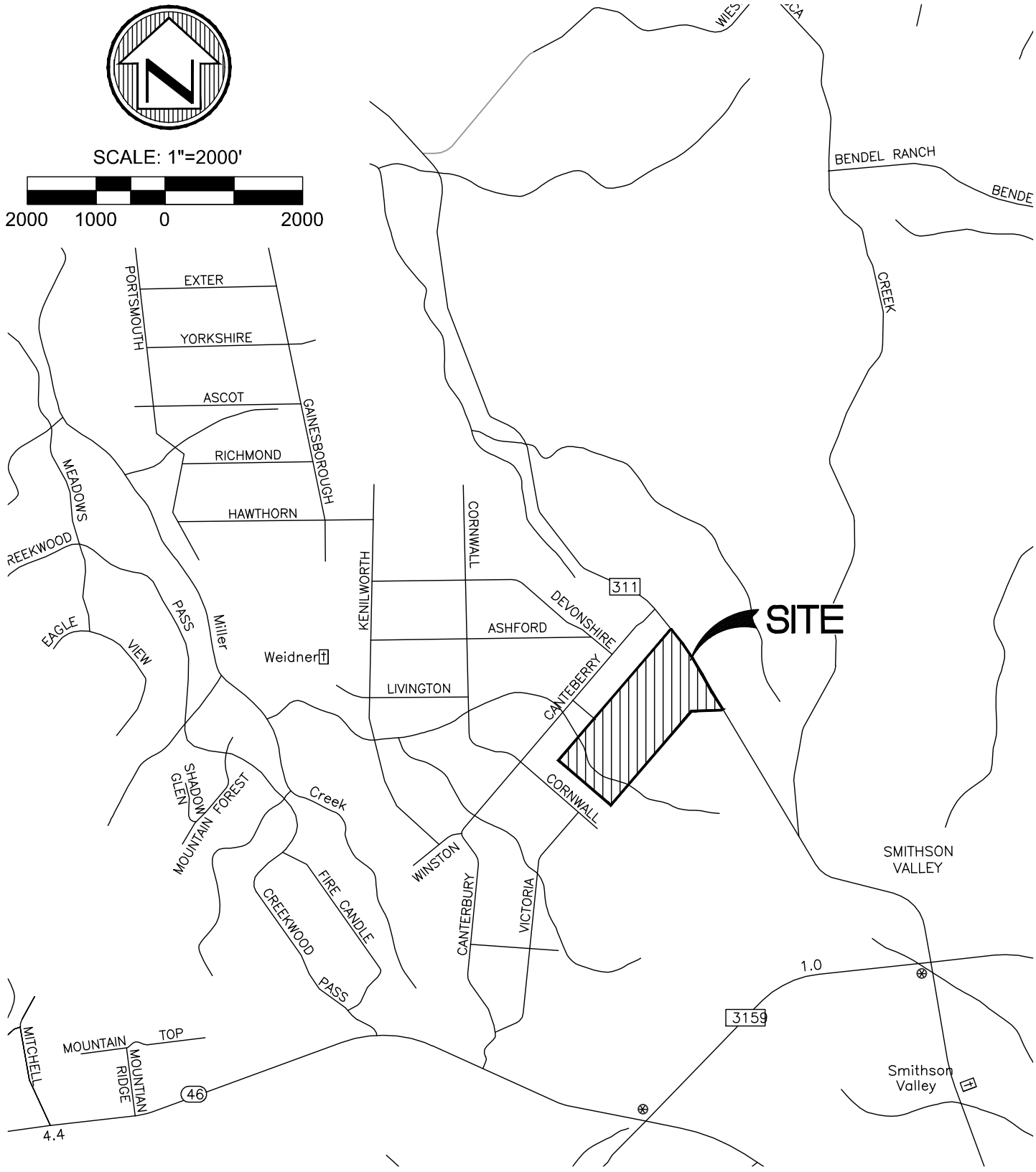
12. ☒ **Attachment D - Nature Of Exception**. A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter B for which an exception is being requested have been identified in the description.

13. ☒ **Attachment E - Equivalent Water Quality Protection**. Documentation demonstrating equivalent water quality protection for surface streams which enter the Edwards Aquifer is attached.

Administrative Information

14. ☒ 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.

15. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.



ATTACHMENT A

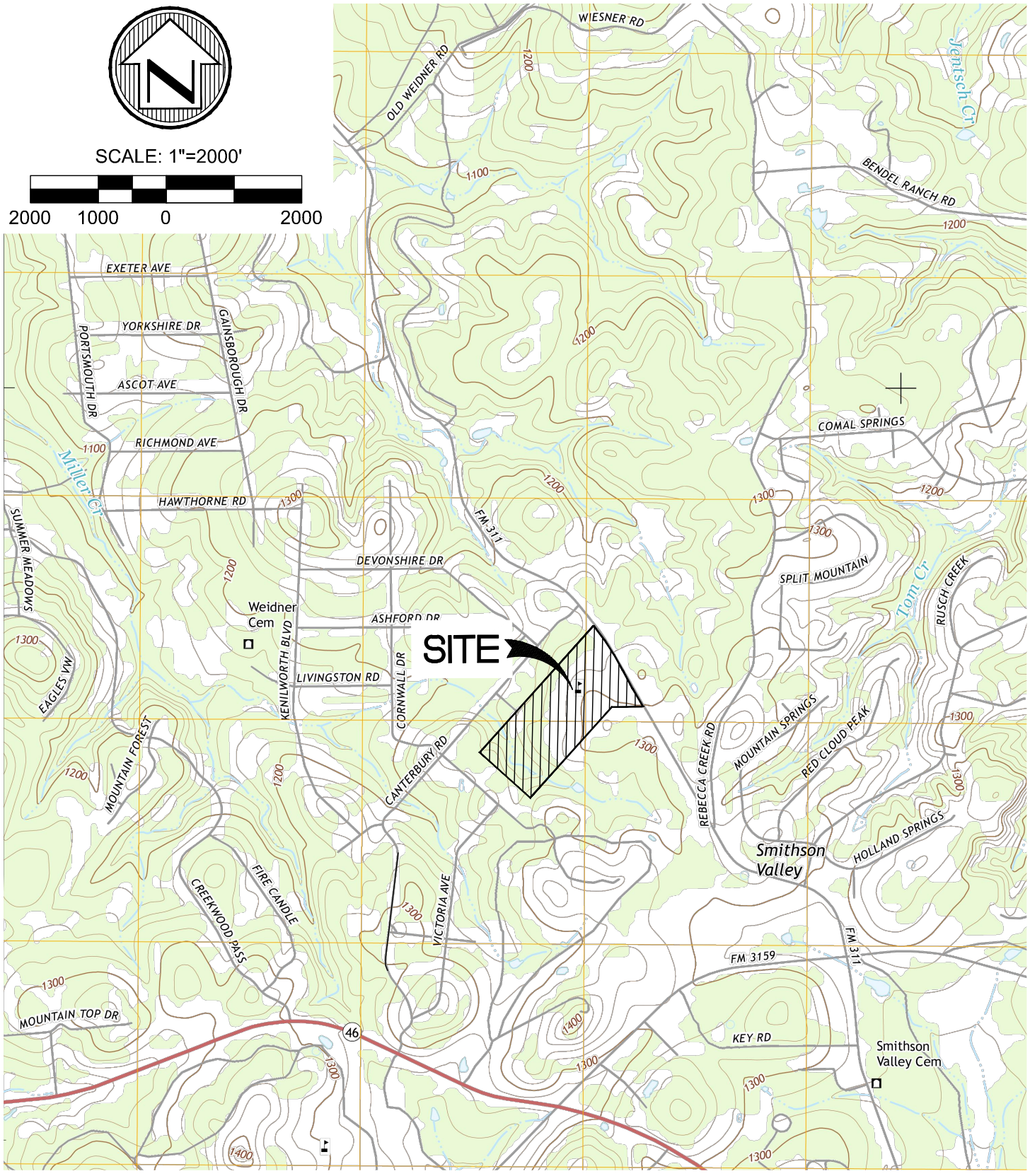
SMITHSON VALLEY MIDDLE SCHOOL AND HILL COUNTRY TRANSPORTATION

ROAD MAP

PROJ. #: 24289 **DATE: MARCH 2025**

MTR
• 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

R:\COMAL ISD\SMITHSON VALLEY M.S\2025 CZP EXCEPTION REQUEST\DRAWINGS\ATTACHMENT A - LOCATION MAP.DWG



(SMITHSON VALLEY TX QUADRANGLE MAP)

ATTACHMENT B

SMITHSON VALLEY MIDDLE SCHOOL AND HILL COUNTRY TRANSPORTATION

USGS QUADRANGLE MAP

PROJ. #: 24289 DATE: MARCH 2025

• 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

R:\COMAL ISD\SMITHSON VALLEY M S\2025 CZP EXCEPTION REQUEST\DRAWINGS\ATTACHMENT B - USGS MAP.DWG

ATTACHMENT C

PROJECT DESCRIPTION

The 60-acre site is located at 6101 FM311, Spring Branch, TX 78070. The entirety of the site is located in the Edwards Aquifer Contributing Zone.

The original Contributing Zone Plan (CZP) was approved on December 19, 2007 (EAPP #2718.00) for 6.08 acres of impervious cover (10.13% of the site). CZP Modification #1 was approved on January 28, 2011 for a 4.74 increase in impervious cover for a total of 10.82 acres of impervious cover (18.03% of the site). CZP Modification #2 was approved on August 16, 2012 for a 0.01 acre increase in impervious cover for a total of 10.83 acres of impervious cover (18.05% of the site). Finally, CZP Modification #3 was approved on June 6, 2018 for a 0.25-acre increase in impervious cover for a total of 11.08 acres (18.47% of the site).

The proposed project is demolishing and reconstructing existing concrete flatwork, asphalt pavement, and an existing canopy system. There is no increase in impervious cover associated with this project, only soil disturbance. Temporary BMPs will be in use for all site work.

Since there is no increase in impervious cover, the existing permanent best management practices (BMPs) will not be altered with this project and will continue to function as designed.

ATTACHMENT D

NATURE OF EXCEPTION

This application is requesting an exception to the submission of a Contributing Zone Plan (CZP) Modification. The proposed project will not impact the on-site impervious cover.

The original Contributing Zone Plan (CZP) was approved on December 19, 2007. The CZP has been modified 3 times, with the latest modification approved on June 6, 2018.

The existing Permanent Best Management Practices (BMPs) will remain untouched.

ATTACHMENT E

EQUIVALENT WATER QUALITY PROTECTION

The most recent CZP modification was approved for 11.08 acres of impervious cover (18.47%). Permanent BMPs in the form of 2 sand filter basins are currently in place to treat the runoff from the impervious cover.

The proposed project will not be increasing the currently approved impervious cover, therefore additional treatment/permanent Best Management Practices (BMPs) are not being added to this project. The current drainage patterns and BMPs will not be affected by the proposed project.

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: 3/21/25

Signature of Customer/Agent:

Regulated Entity Name: CISD Smithson Valley Middle School and Hill Country Transportation

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: Guadalupe River

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

Potential Source	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.
Potential Source	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.
Potential Source	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.
Potential Source	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.
Potential Source	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.
Potential Source	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. Site clearing and demolition
B. Construction of concrete flatwork, asphalt, and canopy system.
C. Grading.
D. Seeding and soil stabilization.

ATTACHMENT D
TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Description of Temporary Best Management Practices:

1. Silt Fence – A barrier consisting of geotextile fabric supported by metal posts to prevent soil and sediment loss from a site. Silt fences shall be installed on the downgradient side of the proposed areas to be disturbed that have a drainage area of 2 or less acres.

2. Bagged Gravel Inlet Filter – Sandbags filled with pea gravel used to construct a sediment barrier around curb and drain inlets. The sandbags should be willed with washed pea gravel and stacked to form a continuous barrier about 1 foot high around the inlets. The bags should be tightly abutted against each other to prevent runoff from flowing between the bags.

3. Rock Berm – A check dam in areas of concentrated flow, used to intercept sediment-laden runoff, detail the sediment, and release the water in sheet flow. The rock berm should be used when the contributing drainage area is less than 5 acres. Rock berms are used in areas where the volume of runoff is too great for a silt fence to contain.

4. Temporary Construction Entrance/Exit – A temporary gravel construction entrance used to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. The stabilized entrance is a stabilized pad of crushed stone located at any point traffic will be entering or leaving the construction site from a public right-of-way, street, alley, sidewalk or parking area.

5. Concrete Washout Area - An area used to prevent or reduce the discharge of pollutants to stormwater from concrete waste by performing on-site washout in a designated area and training employees and subcontractors. Washout area should be located at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Below grade concrete washout facilities are typical.

6. Temporary Seeding – Temporary seeding of disturbed areas shall be performed if disturbed areas are expected to have no construction activity for a period of at least 21 days.

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

Temporary BMPs will be installed prior to disturbance on-site. 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:

Upgradient flow enters the property from approximately 0.37 acres. 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. Rock berms will be installed where concentrated storm water exits the site.

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

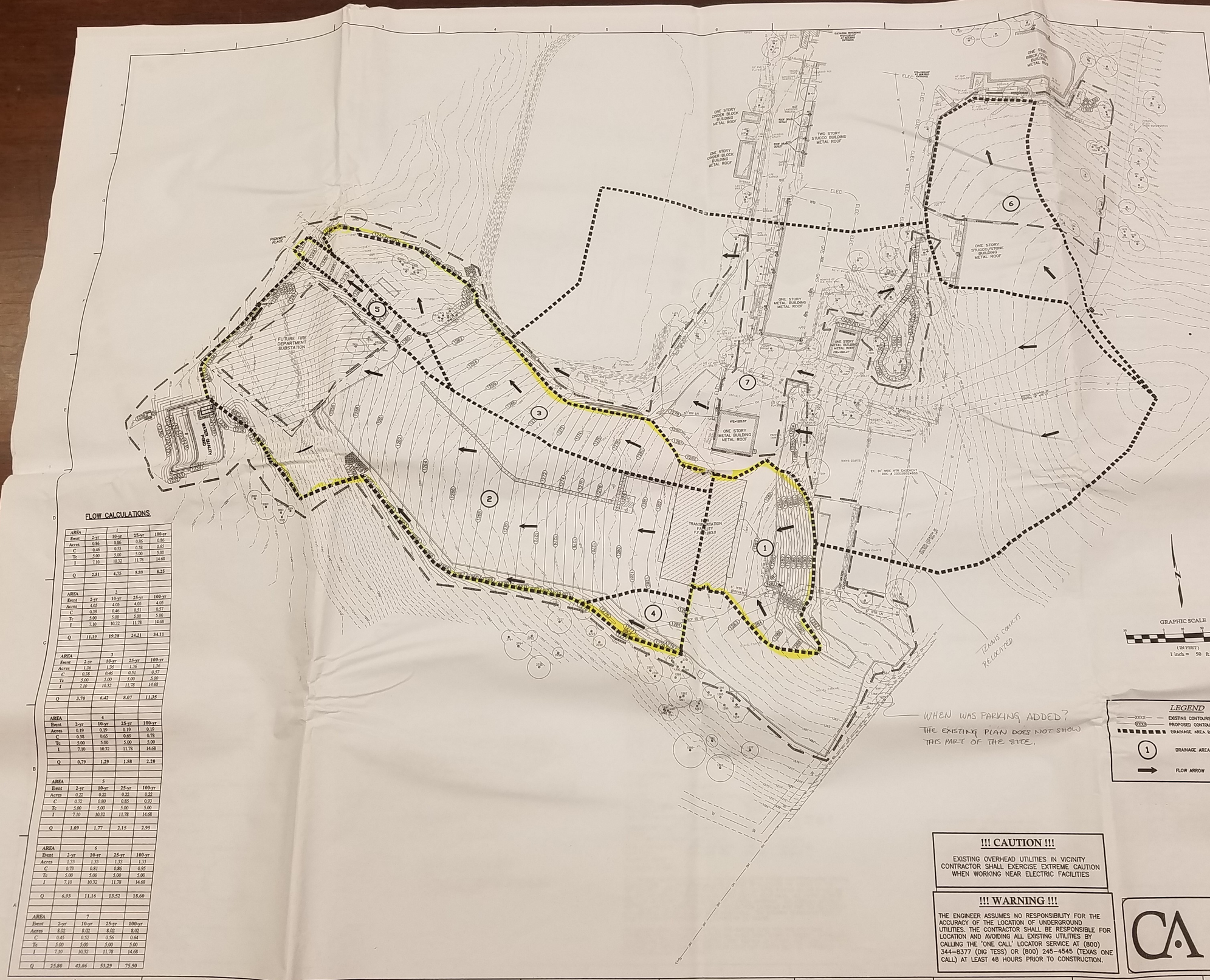
The storm water originating onsite and flowing off the site will be treated using temporary BMPs prior to it entering surface streams, sensitive features and the aquifer. Silt fences will be installed at all locations where non-concentrated storm water may leave the site. These silt fences should filter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

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.



FLOW CALCULATIONS

AREA	1			
Event	2-yr	10-yr	25-yr	100-yr
Acres	0.86	0.86	0.86	0.86
C	0.46	0.53	0.58	0.65
Tc	5.00	5.00	5.00	5.00
I	7.10	10.32	11.78	14.68
Q	2.81	4.75	5.89	8.25

AREA	2			
Event	2-yr	10-yr	25-yr	100-yr
Acres	4.05	4.05	4.05	4.05
C	0.39	0.46	0.51	0.57
Tc	5.00	5.00	5.00	5.00
I	7.10	10.32	11.78	14.68
Q	11.39	19.28	24.21	34.11

AREA	3			
Event	2-yr	10-yr	25-yr	100-yr
Acres	1.36	1.36	1.36	1.36
C	0.58	0.46	0.51	0.57
Tc	5.00	5.00	5.00	5.00
I	7.10	10.32	11.78	14.68
Q	3.70	6.42	8.07	11.35

AREA	4			
Event	2-yr	10-yr	25-yr	100-yr
Acres	0.19	0.19	0.19	0.19
C	0.58	0.65	0.69	0.78
Tc	5.00	5.00	5.00	5.00
I	7.10	10.32	11.78	14.68
Q	0.79	1.29	1.58	2.20

AREA	5			
Event	2-yr	10-yr	25-yr	100-yr
Acres	0.22	0.22	0.22	0.22
C	0.72	0.80	0.85	0.93
Tc	5.00	5.00	5.00	5.00
I	7.10	10.32	11.78	14.68
Q	1.09	1.77	2.15	2.95

AREA	6			
Event	2-yr	10-yr	25-yr	100-yr
Acres	1.33	1.33	1.33	1.33
C	0.73	0.81	0.86	0.95
Tc	5.00	5.00	5.00	5.00
I	7.10	10.32	11.78	14.68
Q	6.93	11.16	13.52	18.60

AREA	7			
Event	2-yr	10-yr	25-yr	100-yr
Acres	8.02	8.02	8.02	8.02
C	0.45	0.52	0.56	0.64
Tc	5.00	5.00	5.00	5.00
I	7.10	10.32	11.78	14.68
Q	25.80	43.06	53.29	75.50

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

WHEN WAS PARKING ADDED?
THE EXISTING PLAN DOES NOT SHOW THIS PART OF THE SITE.

LEGEND
- XXXX EXISTING CONTOURS
- XXXX PROPOSED CONTOURS
- DRAINAGE AREA BOUNDARY
- (1) DRAINAGE AREA LABEL
- FLOW ARROW

!!! CAUTION !!!

EXISTING OVERHEAD UTILITIES IN VICINITY CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR ELECTRIC FACILITIES

!!! WARNING !!!

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND AVOIDING ALL EXISTING UTILITIES BY CALLING THE 'ONE CALL' LOCATOR SERVICE AT (800) 344-8377 (DIG TESS) OR (800) 245-4545 (TEXAS ONE CALL) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

SHWGROUP
ARCHITECTS | ENGINEERS | PLANNERS
200 West Cesar Chavez Street
Suite 200
Austin, TX 78701

FINAL PLANS FOR BIDDING AND CONSTRUCTION

STATE OF TEXAS
SEAN FRIEND
99071
LICENSED
PROFESSIONAL ENGINEER
8/11/10

COMAL INDEPENDENT SCHOOL DISTRICT

COMAL ISD

HILL COUNTRY TRANSPORTATION SPRING BRANCH . TX

CHECKED:
SCALE:

ISSUE:
Bidding and Construction 08/11/2010

SHEET TITLE:
DRAINAGE AREA MAP

Cunningham | Allen, Inc.
Engineers • Surveyors
Tel: (512) 327-2946
www.cunningham-allen.com
TBPE REG. NO. F-284

M2718 01

SHW Project: 4308.020.00

C6.1

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.

Temporary Construction Entrance/Exit

1. The entrance should be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
2. All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
3. When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
4. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
5. All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Concrete Washout Areas

1. Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies.
2. Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

CISD SMITHSON VALLEY MIDDLE SCHOOL AND HILL COUNTRY TRANSPORTATION

Responsible Party Form

Pollution Prevention Measure		Inspected	Corrective Action	
			Description	Date Completed
Silt Fence	Inspections			
	Fencing			
	Sediment Removal			
	Torn Fabric			
	Crushed/Collapsed Fencing			
Bagged Gravel Inlet Filters	Inspections			
	Replaced/Reshaped			
	Silt Removed			
Temporary Construction Entrance/Exit	Inspections			
	Entrance Condition			
	Sediment in Public ROW			
	Sediment Trap Present			
	Sediment Not Entering Storm Drain			

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 14th 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 14th 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.

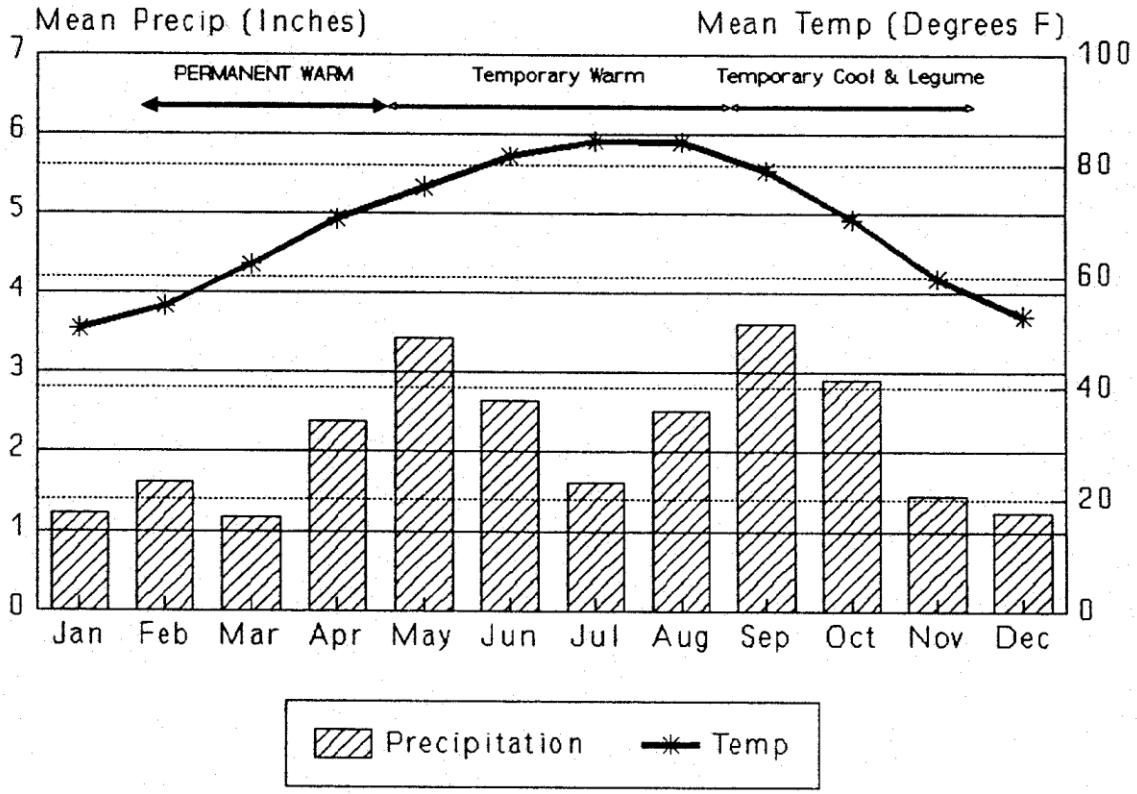


Figure 1-19 Planting Dates for Bexar, Comal, Kinney, Medina, and Uvalde Counties (Northcutt, 1993)

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
		Total	**55.0**
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.

Time Period	**Irrigation Amount and Frequency**
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.

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK.
2. 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 WILL NOT BE HELD LIABLE FOR ANY ON-SITE WASTE MATERIAL. CONTRACTOR SHALL NOT ALLOW THE ACCUMULATION OF DEMOLISHED WASTE MATERIAL ON-SITE.
3. 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.
4. GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSION & GRADE CONDITIONS (BOTH NEW AND EXISTING). 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.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.
6. 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 SITE(S) 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, AT 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.
7. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL COMPLY WITH THE SEDIMENTATION AND EROSION CONTROL PLANS AND SHALL SUBMIT NOTIFICATIONS AND PAY ALL PERMITS.
8. BARRICADES 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 AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION.
9. 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.
10. ANY EXISTING IMPROVEMENTS AND/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.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION, ANY DAMAGES DONE TO EXISTING FENCES, CURBS, CONCRETE DRIVEWAYS, SIDEWALK STRUCTURES AND PAVEMENT, UTILITY BOXES/VALVES, ETC. THAT ARE NOT INDICATED TO BE REMOVED. AN INVENTORY OF EXISTING CONDITIONS SHALL BE CONDUCTED WITH THE CONTRACTOR AND OWNER PRIOR TO DEMOLITION.
12. 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.
13. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK. 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 ACCURACY, COMPLETENESS, OR SUFFICIENCY OF 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 DURING 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 PURVEYORS DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED.
14. NOTIFY OWNER 72 HOURS IN ADVANCE OF ANY UTILITY SHUTDOWN.
15. ADJUST ALL EXISTING VALVES & UTILITIES TO REMAIN TO FINISH GRADE. REFERENCE DEMOLITION, GRADING, & UTILITY PLANS.
16. CONTRACTOR SHALL COORDINATE ALL DEMOLITION/CONSTRUCTION ACTIVITIES WITH OTHER DISCIPLINES AS REQUIRED.
17. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH UTILITY PLANS.
18. CONTRACTOR IS RESPONSIBLE FOR CLEARING THE ALIGNMENT FOR ALL NEW FENCING. CLEARING TO INCLUDE ALL VEGETATION, TREE LIMBS, AND SHRUBS WITHIN 5' OF NEW FENCE ALIGNMENT ON EACH SIDE. COORDINATE WITH LANDSCAPE/TREE PRESERVATION PLANS AS NEEDED, IF APPLICABLE.
19. CONTRACTOR SHALL IMMEDIATELY REMOVE ALL WATER FROM EXCAVATIONS FOLLOWING RAIN EVENTS. NO STANDING WATER WILL BE ALLOWED IN EXCAVATIONS.
20. CONTRACTOR TO REFERENCE LANDSCAPE PLANS FOR THE REMOVAL OF EXISTING TREES AND THE PROTECTION/PRESERVATION OF EXISTING TREES TO REMAIN, IF APPLICABLE.
21. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL SILT FROM THE DRAINAGE SYSTEM AND FLUSH ALL STORM DRAINS AND CHANNELS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
22. CONTRACTOR IS TO TELEVISE ALL HDPE PIPE INSTALLATION PRIOR TO FINAL ACCEPTANCE.
23. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL STABILIZE ALL DISTURBED SOIL AREAS IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND RE-SOD DISTURBED SOIL AREAS WITH BERMUDA SODDING OR HYDROMULCH TO MATCH CONDITIONS PRIOR TO CONSTRUCTION, OR AS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.

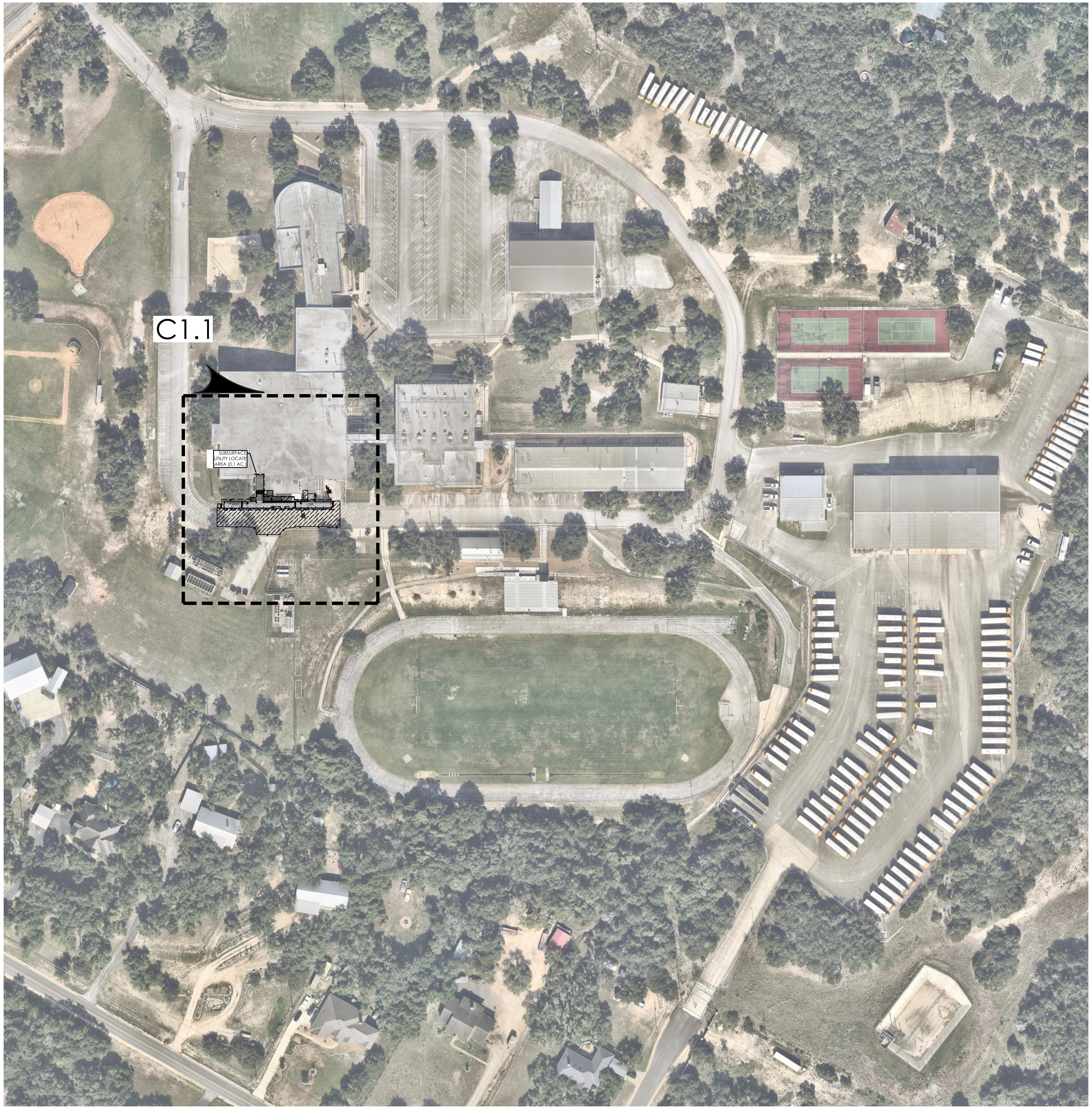
UNDERGROUND UTILITY NOTE

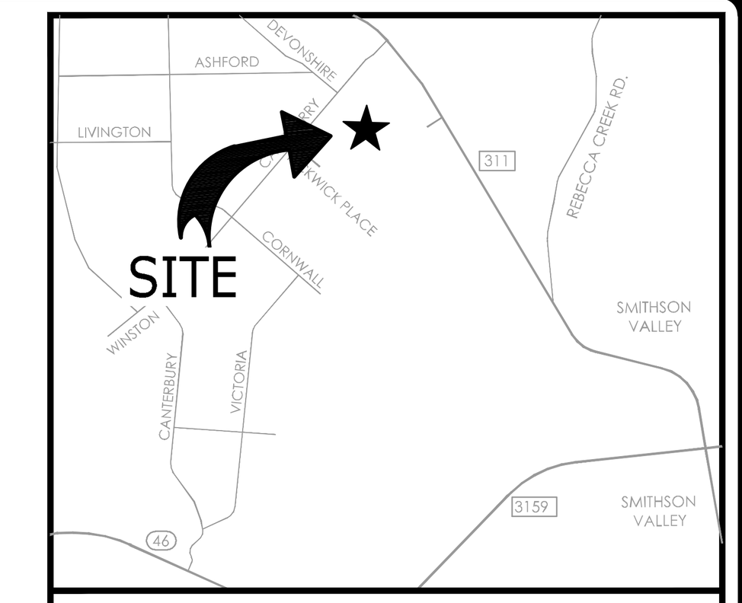
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITY LINES THAT MAY BE AFFECTED BY THE WORK. THESE EFFORTS SHALL INCLUDE BUT ARE NOT LIMITED TO; GROUND PENETRATING RADAR (GPR), REVIEW OF EXISTING PLANS, CONTACTING TEXAS 811 AND ANY OTHER CITY, STATE, MUNICIPAL OR UTILITY COMPANY REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITY LINES (UNDERGROUND AND ABOVE GROUND) WHILE PERFORMING WORK. ANY DAMAGED UTILITY LINES WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

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

SUBSURFACE UTILITY LOCATES:

CONTRACTOR TO PROVIDE QUALITY LEVEL B SURFACE UTILITY LOCATES FOR THE AREA SHOWN. CONTRACTOR TO ALSO COORDINATE ANY PUBLIC UTILITY LOCATES IN THE RIGHT-OF-WAY. CONTRACTOR TO UTILIZE THE PROVIDED BENCHMARKS/CONTROL POINTS TO PROVIDE A CAD FILE WITH GPS LOCATED UTILITIES TO THE OWNER. CONTRACTOR TO ALSO PROVIDE (2) QUALITY LEVEL A POTHOLES TO BE USED AT UTILITY CROSSINGS. CONTRACTOR TO PROVIDE VERTICAL AND HORIZONTAL INFORMATION OF THE UTILITY TO THE OWNER. CONTRACTOR TO PROVIDE UTILITY SIZE AND MATERIAL.





LOCATION MAP
N.T.S.

SCALE: 1"=60'

60 30 0 60

LEGEND

	PROPERTY LINE
	EXISTING ASPHALT TO REMAIN
	EXISTING ASPHALT TO BE REMOVED
	EXISTING CONCRETE TO REMAIN
	EXISTING CONCRETE TO BE REMOVED
	EXISTING COVERED CONCRETE
	EXISTING GRAVEL/ROCK
	EXISTING PAVERS
	SUBSURFACE UTILITY LOCATE AREA
APS	ACCESSIBLE PARKING SIGN
B	BOLLARD-4"Ø METAL
B-6	BOLLARD-6"Ø METAL
	CHAINLINK FENCE
CO	CLEANOUT
CC	CONCRETE MASONRY UNIT COLUMN
CMU	CONCRETE MASONRY UNIT
DS	DOWN SPOUT
	EDGE OF ASPHALT PAVEMENT
EB	ELECTRIC BOX
ET	ELECTRIC TRANSFORMER
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FL	FIRE LANE (PAINTED RED STRIPE)
GI	GRATE INLET
GT	GREASE TRAP
GL	GROUND LIGHT
	GUARDRAIL
ICV	IRRIGATION CONTROL VALVE
	IRON FENCE
LP	LIGHT POLE ON 24"Ø CONC. BASE
MB	MAILBOX
M	MANHOLE
O.P.R.B.C.T.	OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY TEXAS
OHE	OVERHEAD UTILITIES
R.O.W.	RIGHT-OF-WAY
RD	ROOF DRAIN
S	SANITARY SEWER MANHOLE
	SIGN
SD	STORM DRAIN MANHOLE
T	TELEPHONE PEDESTAL
UP	UTILITY POLE
UP	UTILITY POLE WITH GUY WIRE
WM	WATER METER
WV	WATER VALVE
x	WIRE FENCE
#	NO. OF STRIPED PARKING SPACES
( )	PER RECORDED SUBDIVISION PLAT

REVISIONS

NO.	DATE	DESCRIPTION	BY

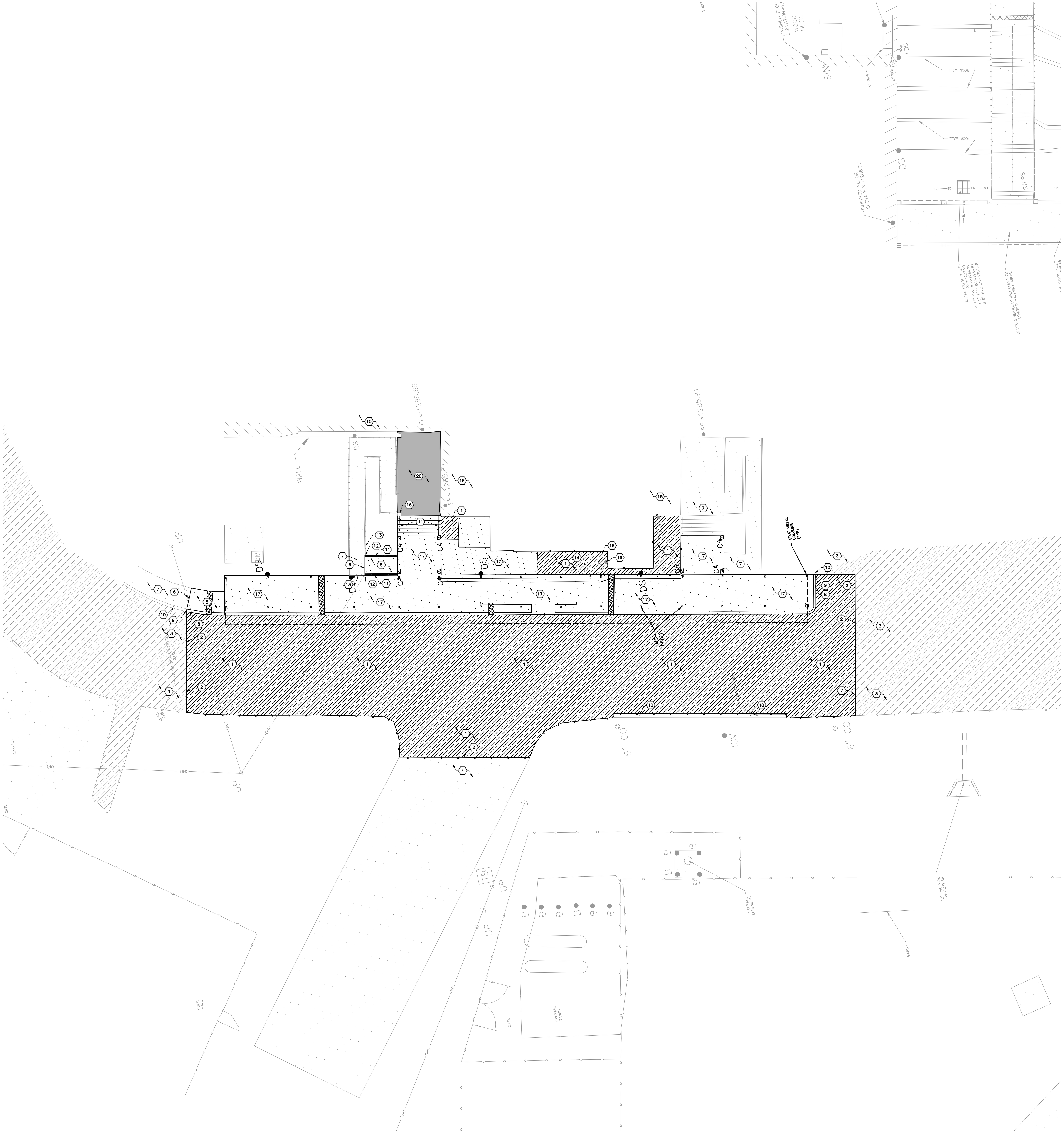
PROJ #	DSGN. BY	DWN. BY	CHKD. BY	DATE

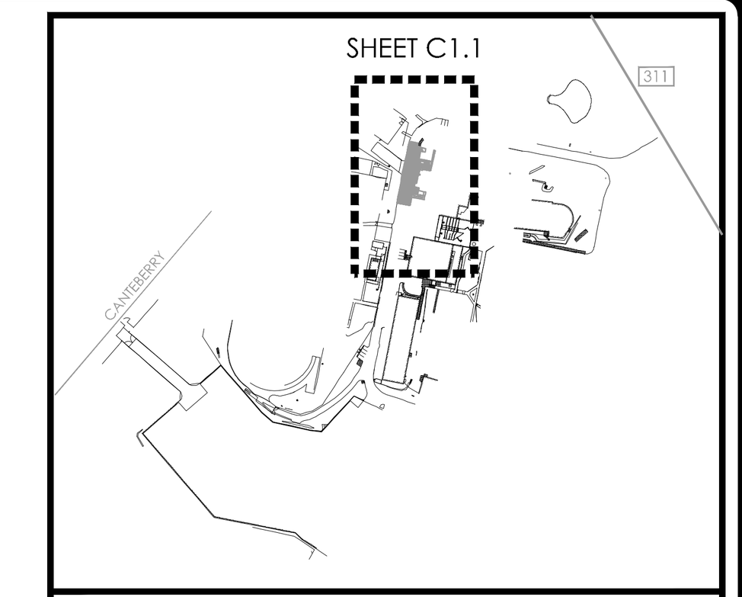
STATE OF TEXAS
SEAN S. SMITH
113308
REGISTERED PROFESSIONAL ENGINEER
12/20/24

MTR
Moy Tarin Ramirez Engineers, LLC
· Engineers · Surveyors · Planners
TBPELS: ENGINEERING F-5297 / SURVEYING F-10131500
12770 CIMARRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249
TEL: (210) 698-5051
FAX: (210) 698-5085

COMAL ISD
SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT
OVERALL DEMOLITION PLAN

SHEET
C1.0





KEY MAP
N.T.S.

SCALE: 1"=10'

10 5 0 10

DEMOLITION KEYNOTES

1. EXISTING ASPHALT PAVEMENT TO BE REMOVED, COMPLETE.
2. LIMIT OF ASPHALT PAVEMENT DEMOLITION. CONTRACTOR TO SAWCUT AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.
3. EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
4. EXISTING CONCRETE PAVEMENT TO REMAIN.
5. EXISTING CONCRETE SIDEWALK/FLATWORK TO BE REMOVED.
6. LIMIT OF CONCRETE SIDEWALK/FLATWORK DEMOLITION. CONTRACTOR TO SAWCUT AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.
7. EXISTING CONCRETE SIDEWALK/FLATWORK TO REMAIN.
8. EXISTING CURB TO BE REMOVED.
9. LIMIT OF CURB DEMOLITION. CONTRACTOR TO SAWCUT AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.
10. EXISTING CURB TO REMAIN IN PLACE.
11. EXISTING HANDRAIL TO BE DEMOLISHED AND REMOVED.
12. LIMIT OF HANDRAIL DEMOLITION.
13. EXISTING HANDRAIL TO REMAIN. CONTRACTOR TO REMOVE AND REPLACE AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.
14. EXISTING VALVE/LID TO REMAIN. CONTRACTOR TO ADJUST LID TO MATCH FINISH GRADE.
15. EXISTING BUILDING. CONTRACTOR TO PROTECT THROUGHOUT CONSTRUCTION.
16. EXISTING COLUMN TO REMAIN. CONTRACTOR TO PROTECT THROUGHOUT CONSTRUCTION.
17. EXISTING CONCRETE AND CANOPY SYSTEM. REFERENCE STRUCTURAL PLANS FOR DIRECTION.
18. EXISTING METAL GRATES STEPS TO REMAIN. CONTRACTOR TO REMOVE AND REPLACE AS NECESSARY.
19. EXISTING GAS REGULATOR TO REMAIN.
20. CONTRACTOR TO CHIP AND TOP EXISTING STRUCTURAL CONCRETE.

LEGEND

Symbol	Description
	PROPERTY LINE
	EXISTING ASPHALT TO REMAIN
	EXISTING ASPHALT TO BE REMOVED
	EXISTING CONCRETE TO REMAIN
	EXISTING CONCRETE TO BE REMOVED
	EXISTING COVERED CONCRETE
	EXISTING GRAVEL/ROCK
	EXISTING PAVERS
	SUBSURFACE UTILITY LOCATE AREA
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	EDGE OF ASPHALT PAVEMENT
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GL	GROUND LIGHT
	GUARDRAIL
ICV	IRRIGATION CONTROL VALVE
	IRON FENCE
LP	LIGHT POLE ON 24"ø CONC. BASE
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OHE	OVERHEAD UTILITIES
R.O.W.	RIGHT–OF–WAY
RD	ROOF DRAIN
S	SANITARY SEWER MANHOLE
	SIGN
SD	STORM DRAIN MANHOLE
T	TELEPHONE PEDESTAL
UP	UTILITY POLE
UP	UTILITY POLE WITH GUY WIRE
WM	WATER METER
WV	WATER VALVE
x	WIRE FENCE
#	NO. OF STRIPED PARKING SPACES
( )	PER RECORDED SUBDIVISION PLAT

REVISIONS

NO.	DATE	DESCRIPTION	BY

PROJ. # | DSN. BY: | DWN. BY: | CHKD. BY: | DATE:

STATE OF TEXAS
SEAN S. SMITH
113308
REGISTERED
PROFESSIONAL ENGINEER
12/20/24

Moy Tarin Ramirez Engineers, LLC
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COMAL ISD
SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT
DEMOLITION PLAN - ENLARGED

SHEET
C1.1

SWPPP 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 STORM WATER DISCHARGES TO SURFACE WATER.
7. CONTRACTOR SHALL MODIFY PLAN AS NECESSARY TO PROVIDE FOR THE PROPER STORM WATER PREVENTION POLLUTION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. ALL MODIFICATIONS ARE TO BE CAPTURED ON THE CONTRACTOR'S COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND REPORT ON THE PROJECT SITE.
8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER POLLUTION PREVENTION CONTROL FOR THE PROJECT SITE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.

SITE INFORMATION:

DATA ON INDICATED SUBSURFACE CONDITIONS ARE NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF ACCURACY OR CONTINUITY BETWEEN SOIL BORINGS. IT IS EXPRESSLY UNDERSTOOD THAT THE OWNER, ARCHITECT, AND/OR STRUCTURAL, CIVIL OR MECHANICAL, PLUMBING OR ELECTRICAL ENGINEER WILL NOT BE RESPONSIBLE FOR INTERPRETATIONS OR CONCLUSIONS DRAWN THEREFROM BY CONTRACTOR. DATA ARE MADE AVAILABLE FOR CONVENIENCE OF CONTRACTOR ONLY AND AS SUCH, THE SOIL BORINGS ARE NOT CONSIDERED TO BE A PART OF THESE CONTRACT DOCUMENTS. THE CONTRACTOR MAY, AT HIS OPTION, OBTAIN A COPY OF THE GEOTECHNICAL REPORT.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, CURRENT 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 CURRENT OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

NOTE TO THE CONTRACTOR

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH INDIVIDUAL UTILITY, FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

CAUTION!!

THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

LEGAL:

1. SIZE: 53.38 ACRES
2. LOTS: 2 LOTS
3. OWNER:
   COMAL INDEPENDENT SCHOOL DISTRICT
   1404 INTERSTATE HIGHWAY 35 NORTH
   NEW BRAUNFELS, TEXAS 78130
4. LEGAL DESCRIPTION:
   a. A-721 SUR-875 GWT & P RR
   b. A-669 SUR-644 F WEIDNER

LOCATION MAP
N.T.S.

SCALE: 1"=60'

60 30 0 60

LEGEND

▬ ▬ ▬	PROPERTY LINE
— — 802 — —	EXISTING CONTOUR
——802——	PROPOSED CONTOUR
——◇——	CHAIN LINK FENCE
▬ ¦ ¦ ▬	SILT FENCE
	ROCK BERM
	INLET FILTER
	SAND/GRAVEL BAGS
	STABILIZED CONSTRUCTION EXIT
	CONSTRUCTION STAGING AREA
▩	CONCRETE WASHOUT PIT
	PERMANENT SOIL STABILIZATION (REFERENCE LANDSCAPE PLANS)
	NEW CONCRETE FLATWORK
▧	NEW LIGHT-DUTY ASPHALT
▨	NEW HEAVY-DUTY ASPHALT
	NEW CONCRETE PAVEMENT

UNDERGROUND UTILITY NOTE

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

PROJ. #
DGN. BY:
DWN. BY:
CHKD. BY:
DATE:

SEAN S. SMITH
113308
12/20/24

Moy Tarin Ramirez Engineers, LLC
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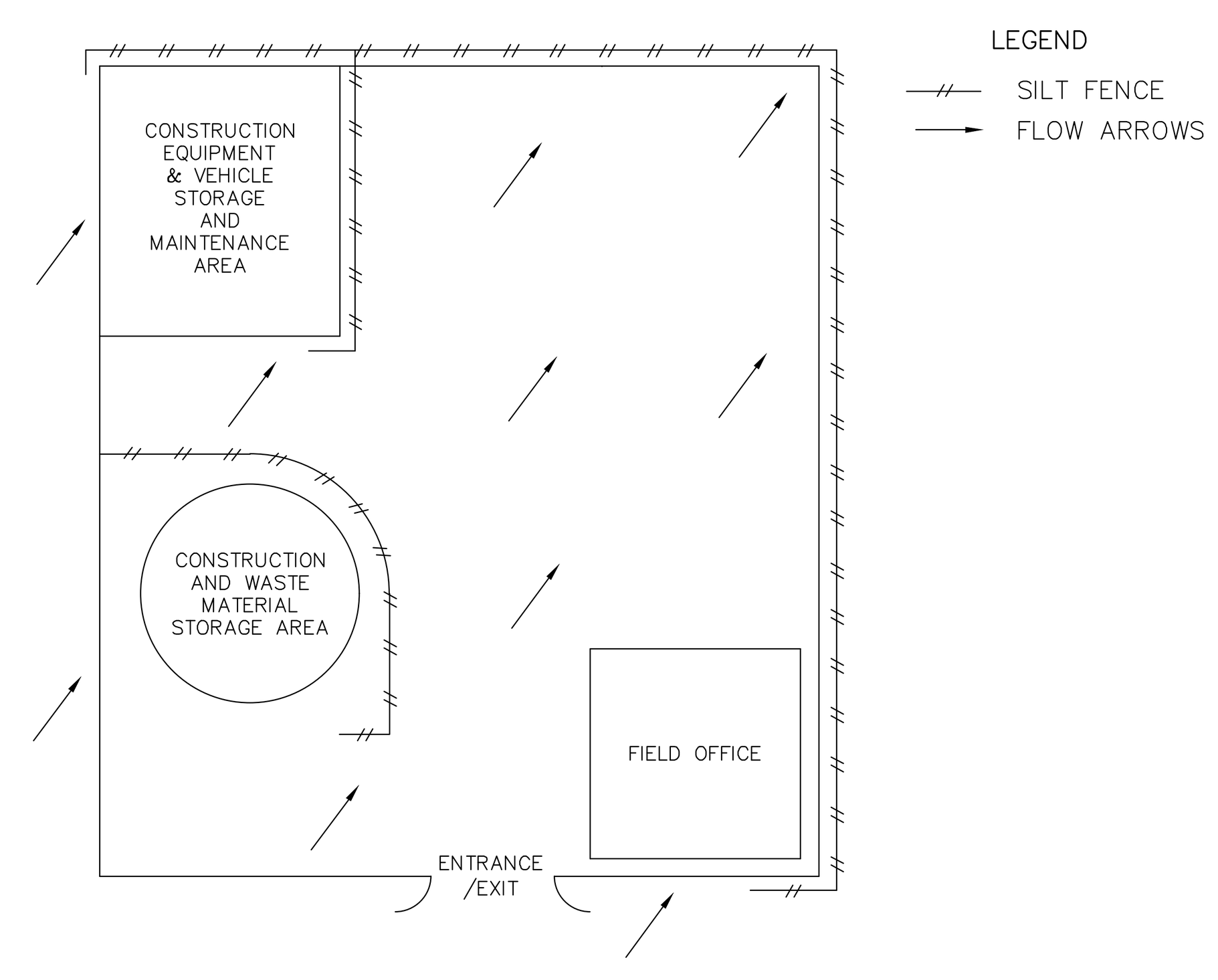
COMAL ISD
SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT
STORM WATER POLLUTION PREVENTION PLAN

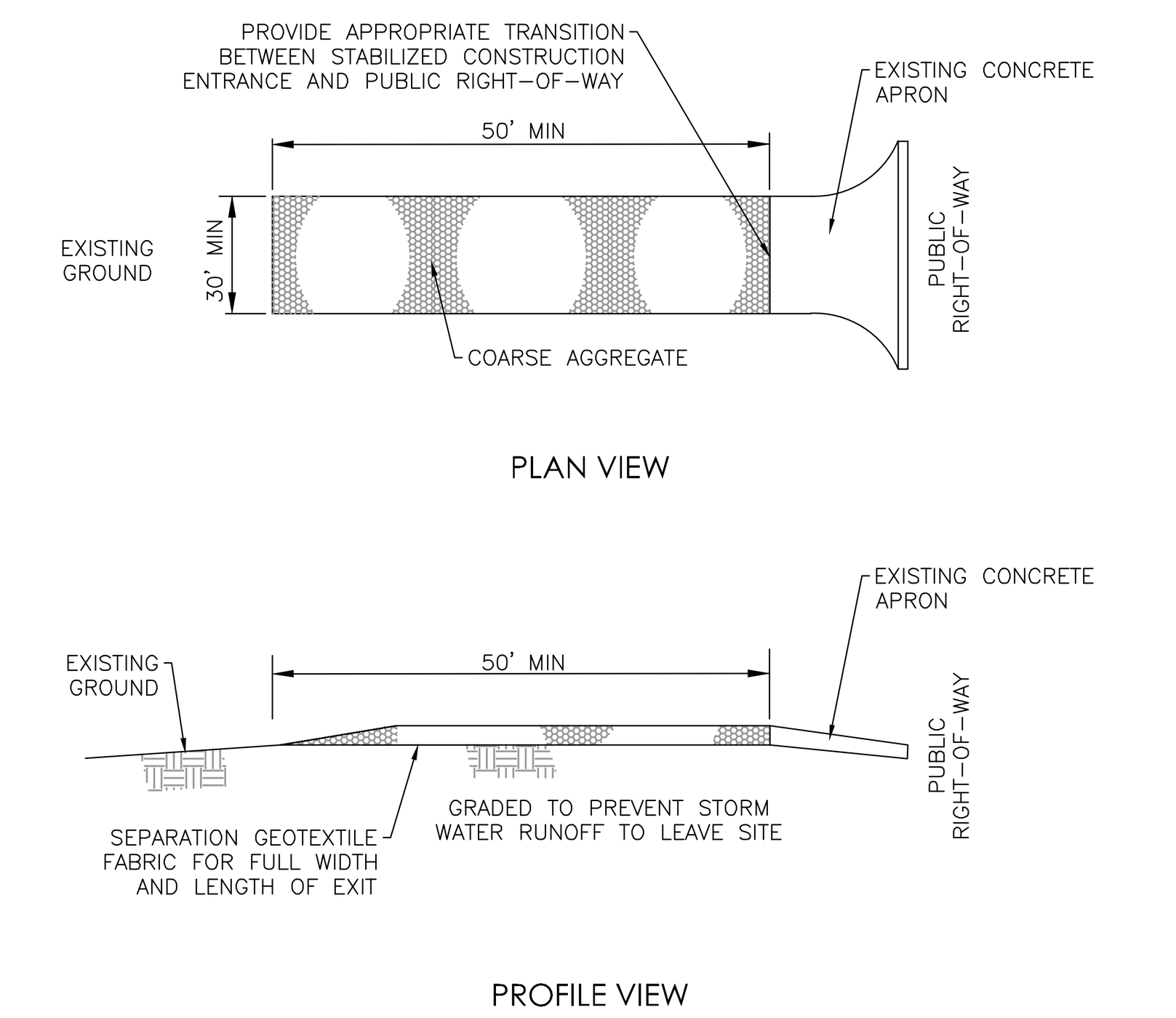
SHEET
C2.0

R:\Comal ISD\Smithson Valley M S\2023 Bus Canopy Replacement\Drawings\C2.0_SWPPP.dwg 2025/01/10 9:49am bstanish



1 CONSTRUCTION STAGING AREA

SCALE: NONE

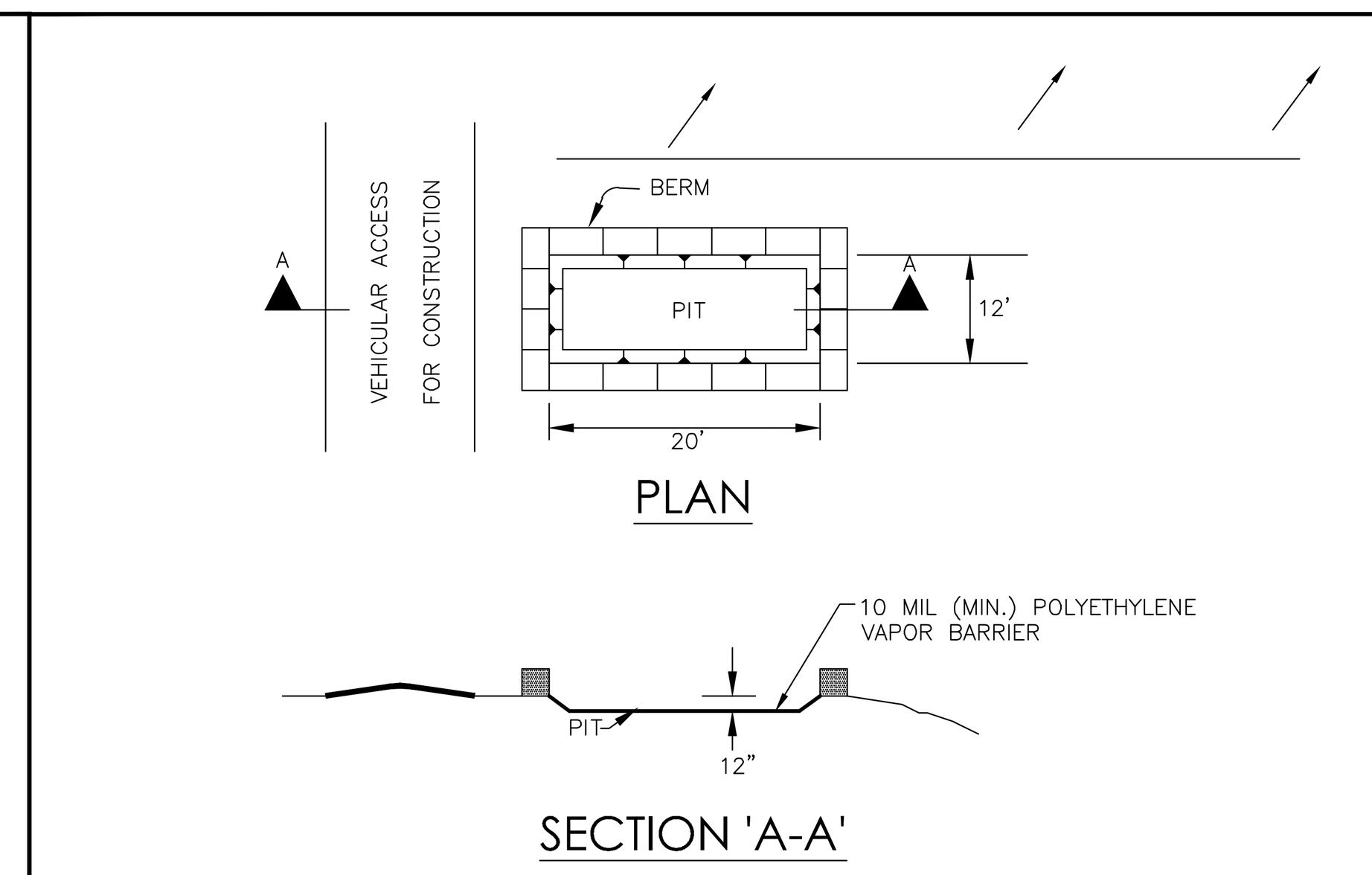


TEMPORARY CONSTRUCTION ENTRANCE/EXIT NOTES:

1. THE AGGREGATE SHOULD CONSIST OF 4 TO 8 INCH WASHED STONE OVER A STABLE FOUNDATION.
2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8 INCHES.
3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD 2 , A MULLEN BURST RATING OF 140 LB/IN 2 , AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.
4. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
5. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
6. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
7. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
8. PLACE STONE TO DIMENSIONS AND GRADE SHOWN. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
9. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
10. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
11. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
12. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
13. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE.

2 STABILIZED CONSTRUCTION ENTRANCE / EXIT

SCALE: NONE

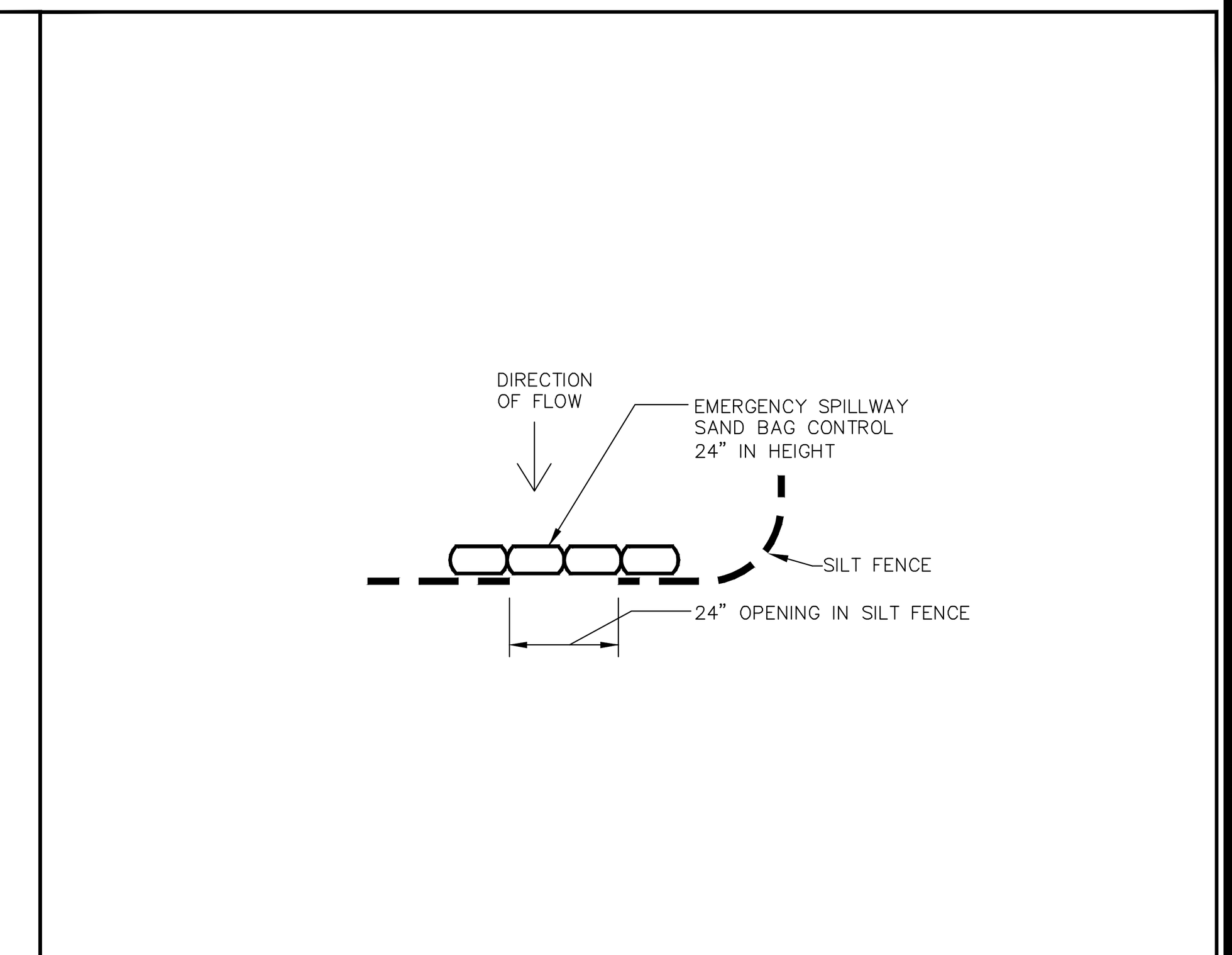


GENERAL NOTES:

1. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.

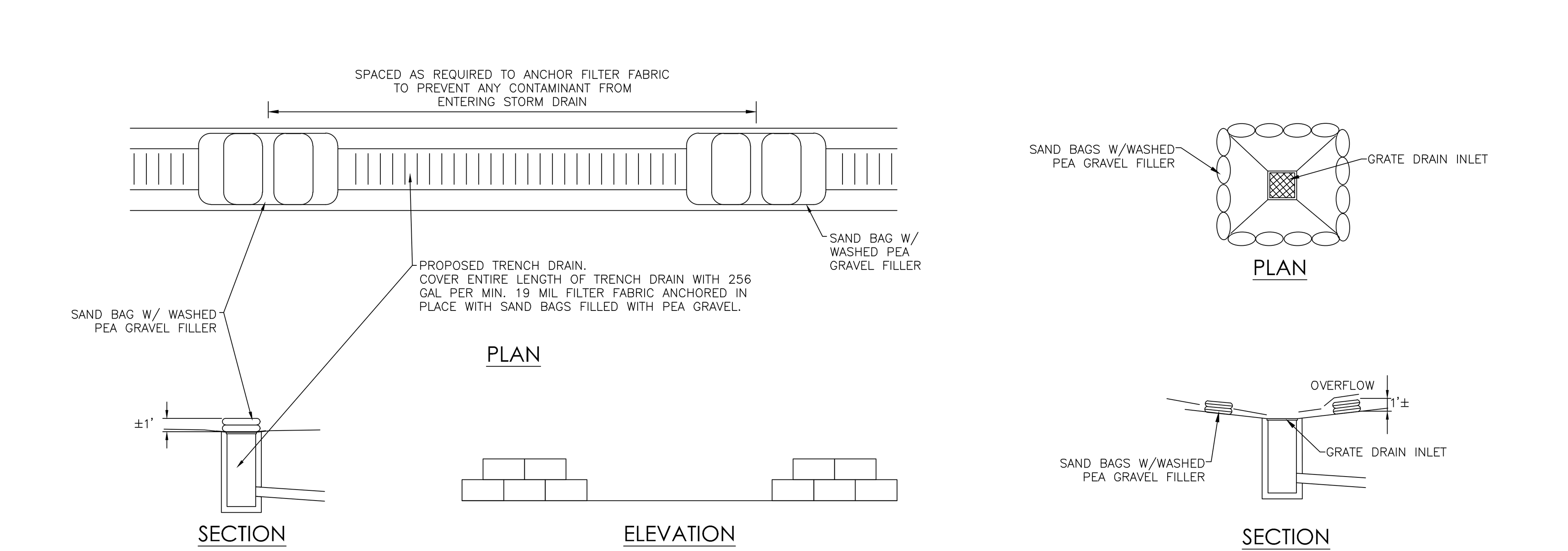
3 CONCRETE TRUCK WASHOUT PIT

SCALE: NONE



4 PLAN - SAND BAG CONTROL DETAIL

SCALE: NONE

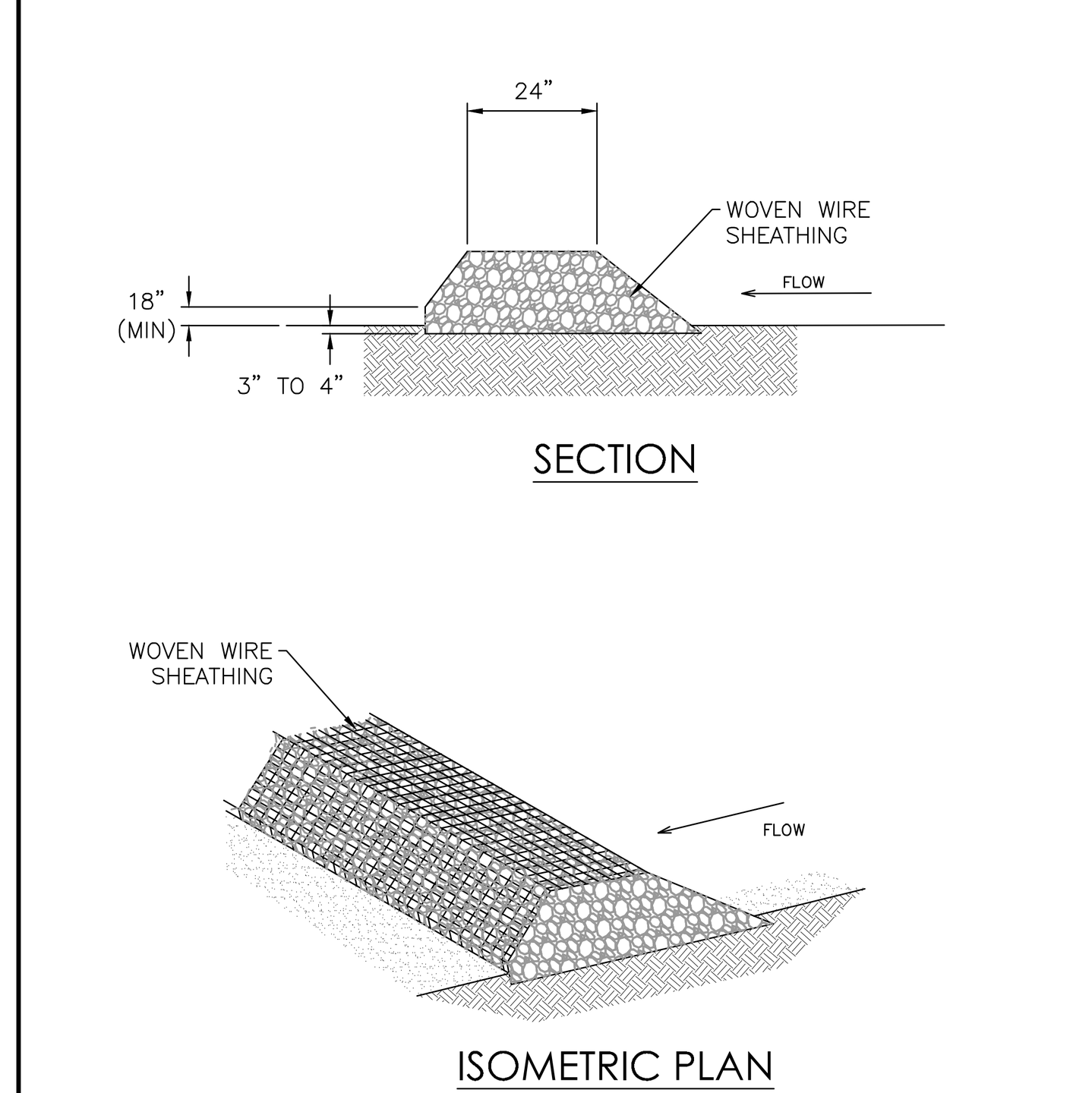


GENERAL NOTES:

1. THE GRAVEL BAG MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, POLYAMIDE OR COTTON BURLAP WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OZ/YD 2, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70 PERCENT.
2. THE BAG LENGTH SHOULD BE 24 INCHES, WIDTH SHOULD BE 18 INCHES AND THICKNESS SHOULD BE 6 INCHES.
3. THE GRAVEL BAGS SHOULD BE FILLED WITH 3/4" GRAVEL.
4. WHEN A GRAVEL BAG IS FILED WITH GRAVEL, THE OPEN END OF THE GRAVEL BAG SHOULD BE STAPLED OR TIED WITH NYLON OR POLY CORD.
5. THE GRAVEL BAGS SHOULD BE PLACED AS SHOWN ON THE DETAIL. THE GRAVEL BAGS SHALL BE STACKED TO FORM A CONTINUOUS BARRIER AROUND THE INLETS. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.
6. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
7. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND CURB.
8. 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.
9. STRUCTURE SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

5 BAGGED GRAVEL INLET FILTER DETAILS

SCALE: NONE

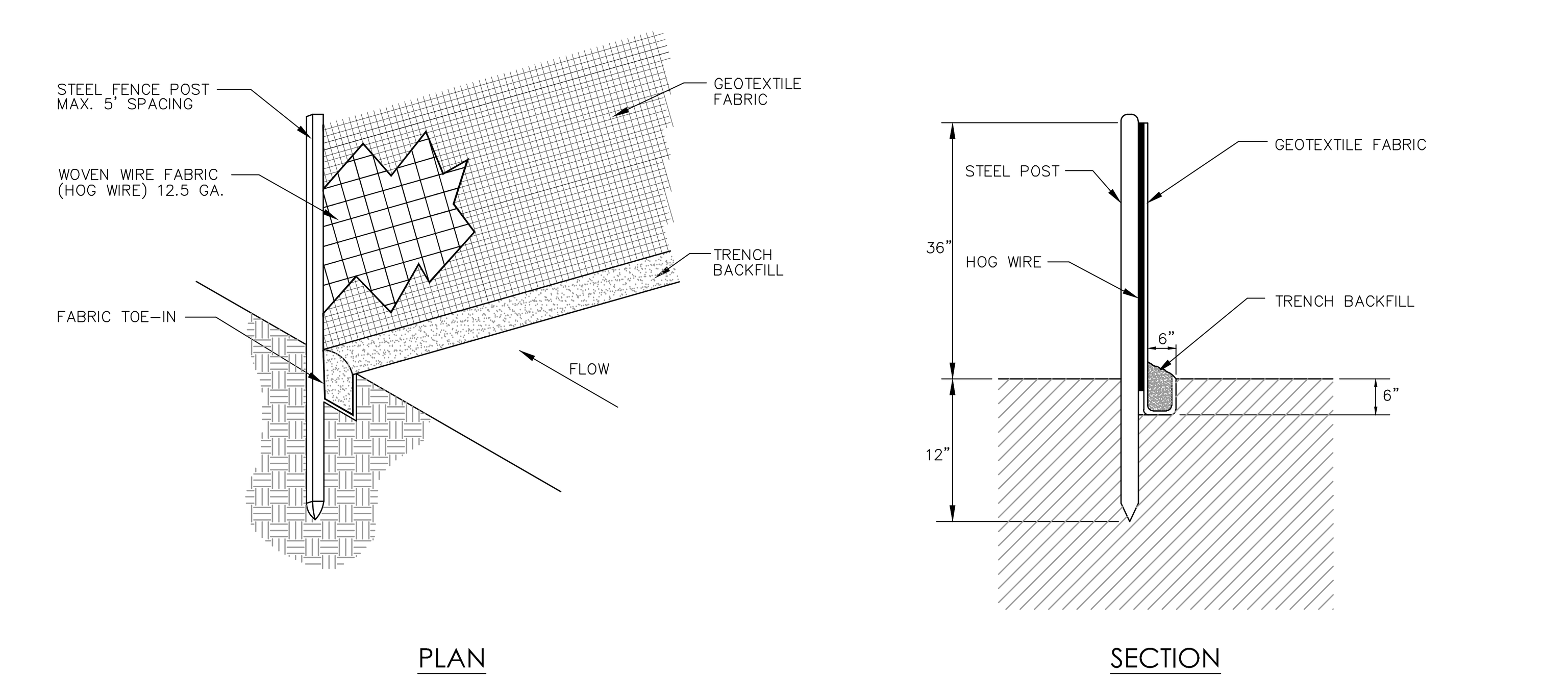


ROCK BERM NOTES:

1. THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.
2. CLEAN, OPEN GRADED 3 TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-TO 8-INCH DIAMETER ROCKS MAY BE USED.
3. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE.
4. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
5. PLACE THE ROCK ALONG THE SHEATHING TO A HEIGHT NOT LESS THAN 18".
6. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.
7. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
8. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.
9. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
10. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT OF IN AN APPROVED MANNER AND REPAIR ANY LOOSE WIRE SHEATHING.
11. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
12. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.

6 ROCK BERM DETAIL

SCALE: NONE

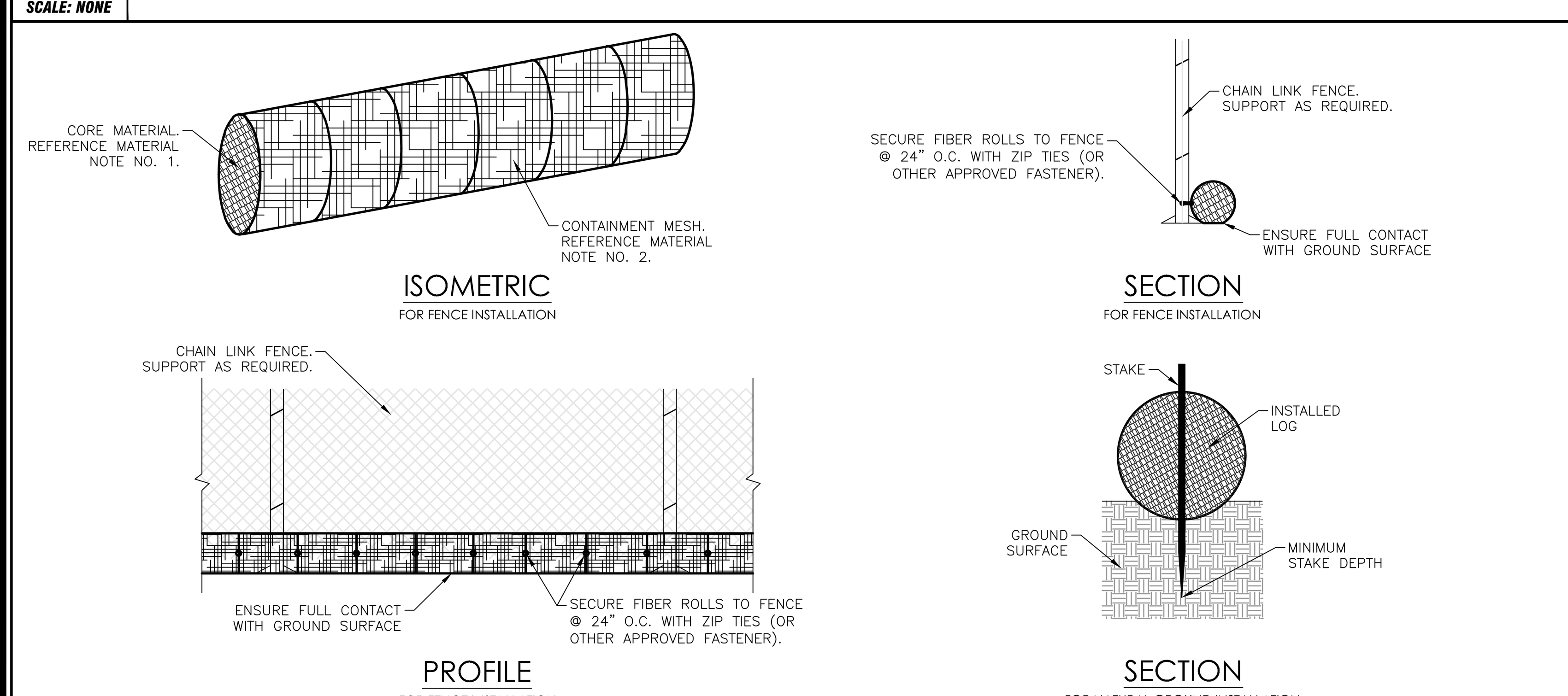


GENERAL NOTES:

1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN 2 , ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM NOMINAL WEIGHT 1.25 LB/FT 2 , AND BRINDELL HARDNESS EXCEEDING 140.
3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12.5 GAUGE MINIMUM.
4. 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.
5. 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 ¼ACRE/100 FEET OF FENCE.
6. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
7. 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.
8. 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.
9. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
10. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES, OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE OLD FENCE.
11. REPLACE ANY TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.
12. 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.

7 SILT FENCE DETAILS

SCALE: NONE



GENERAL NOTES:

MATERIAL:

1. CORE MATERIAL: CORE MATERIAL SHOULD BE BIODEGRADABLE OR RECYCLABLE. MATERIAL MAY BE COMPOST, MULCH, ASPEN WOOD FIBERS, CHIPPED SITE VEGETATION, AGRICULTURAL RICE OR WHEAT STRAW, COCONUT FIBER, 100% RECYCLABLE FIBERS, OR SIMILAR MATERIALS.
2. CONTAINMENT MESH: CONTAINMENT MESH SHOULD BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTODEGRADABLE PLASTIC, POLYESTER, OR SIMILAR MATERIAL. WHEN THE FIBER ROLE WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM USE BIODEGRADABLE OR PHOTODEGRADABLE MESH. FOR TEMPORARY INSTALLATION RECYCLABLE MESH IS RECOMMENDED.

IMPLEMENTATION:

1. LOCATE FIBER ROLLS ON LEVEL CONTOURS SPACED AS FOLLOWS:
   - SLOPE INCLINATION OF 4:1 (H:V) OR FLATTER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 20 FT.
   - SLOPE INCLINATION BETWEEN 4:1 AND 2:1 (H:V): FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 15 FT. (A CLOSER SPACING IS MORE EFFECTIVE).
   - SLOPE INCLINATION 2:1 (H:V) OR GREATER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 10 FT. (A CLOSER SPACING IS MORE EFFECTIVE).
2. TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL.
3. STAKE FIBER ROLLS INTO A 2 TO 4 IN. DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.
4. DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FT MAXIMUM ON CENTER.
5. USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 BY 0.75 IN. AND MINIMUM LENGTH OF 24 IN.
6. IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED, NOT ABUTTED.

INSPECTION AND MAINTENANCE GUIDELINES:

1. INSPECT PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED RAIN EVENTS, AFTER RAIN EVENTS, AND WEEKLY.
2. REPAIR OF REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER ROLLS.
3. IF THE FIBER ROLL IS USED AS A SEDIMENT CAPTURE DEVICE, OR AS AN EROSION CONTROL DEVICE TO MAINTAIN SHEET FLOWS, SEDIMENT THAT ACCUMULATES BEHIND THE ROLE MUST BE PERIODICALLY REMOVED TIN ORDER TO MAINTAIN ITS EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN THE ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH, USUALLY ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO EARTHWORK ON THE SITE OR DISPOSED OF AT AN APPROPRIATE LOCATION.

8 FIBER ROLL DETAILS

SCALE: NONE

REVISIONS							
NO.	DATE	DESCRIPTION	BY	PROJ. #	DGN. BY	DWN. BY	CHKD. BY	DATE

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COMAL ISD

SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT

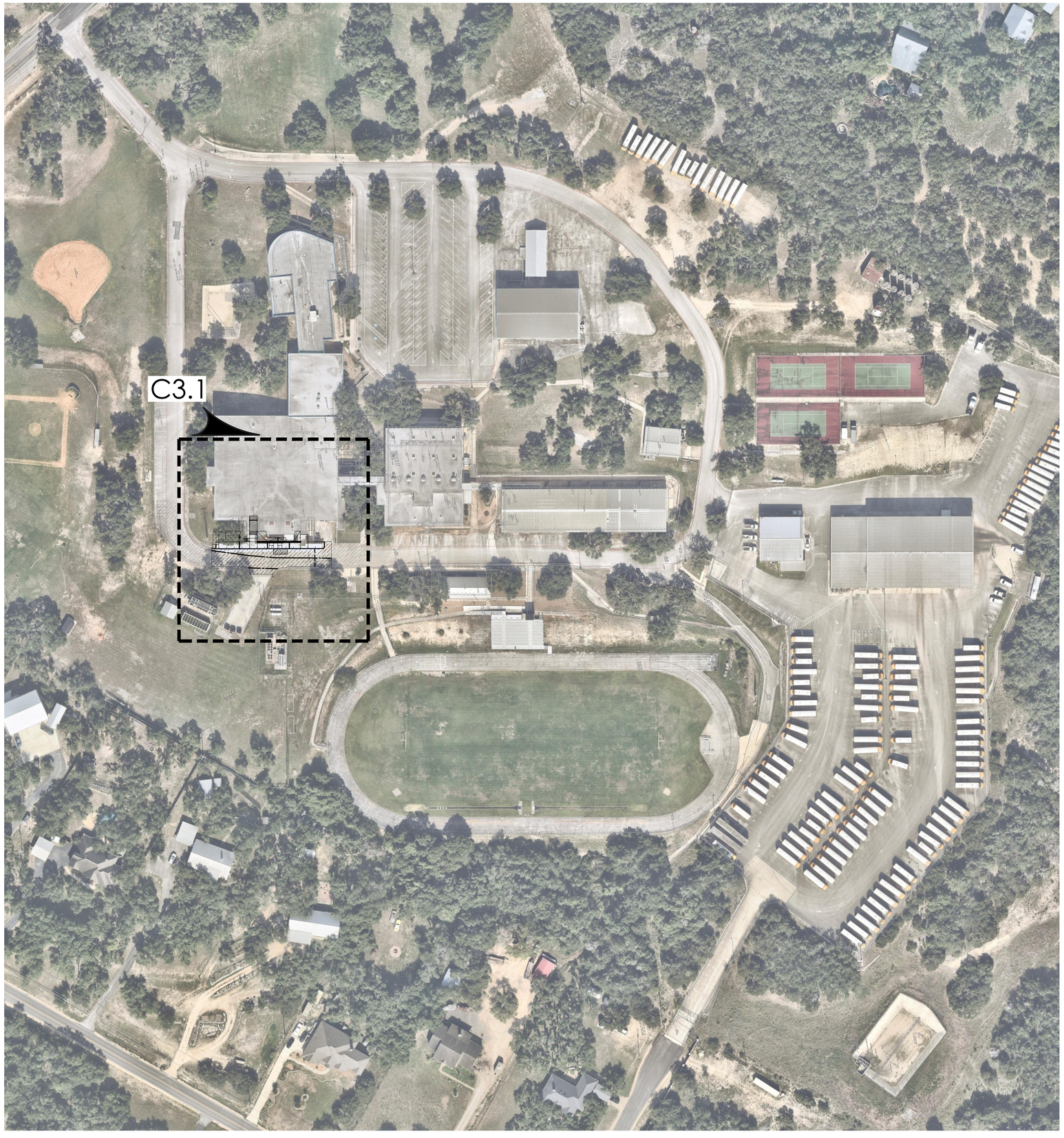
STORM WATER POLLUTION PREVENTION PLAN DETAILS

SHEET

C2.1

DIMENSIONAL CONTROL NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED ON PLAN.
2. ALL RADII SHALL BE 5.00' UNLESS NOTED OTHERWISE NOTED ON PLAN.
3. MOY TARIN RAMIREZ ENGINEERS, L.L.C. CAN PERFORM FIELD STAKING SERVICES FOR ANY IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION PLANS. ANY STAKING REQUESTED WILL BE AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL LOCATIONS SHOW WITH SIGNED AND SEALED CONSTRUCTION DOCUMENTS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION COMMENCEMENT.



LOCATION MAP
NTS

SCALE: 1"=60'
60 30 0 60

LEGEND

- PROPERTY LINE
- NEW CONCRETE FLATWORK
- NEW LIGHT-DUTY ASPHALT
- NEW HEAVY-DUTY ASPHALT
- NEW CONCRETE PAVEMENT
- NEW WASHED RIVER ROCK
- NEW SOD

NO.	DATE	REVISIONS DESCRIPTION	BY

STATE OF TEXAS
SEAN S. SMITH
113308
REGISTERED PROFESSIONAL ENGINEER
12/20/24

MTR
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• Surveyors
• Planners
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SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT

OVERALL DIMENSIONAL CONTROL PLAN

SHEET
C3.0

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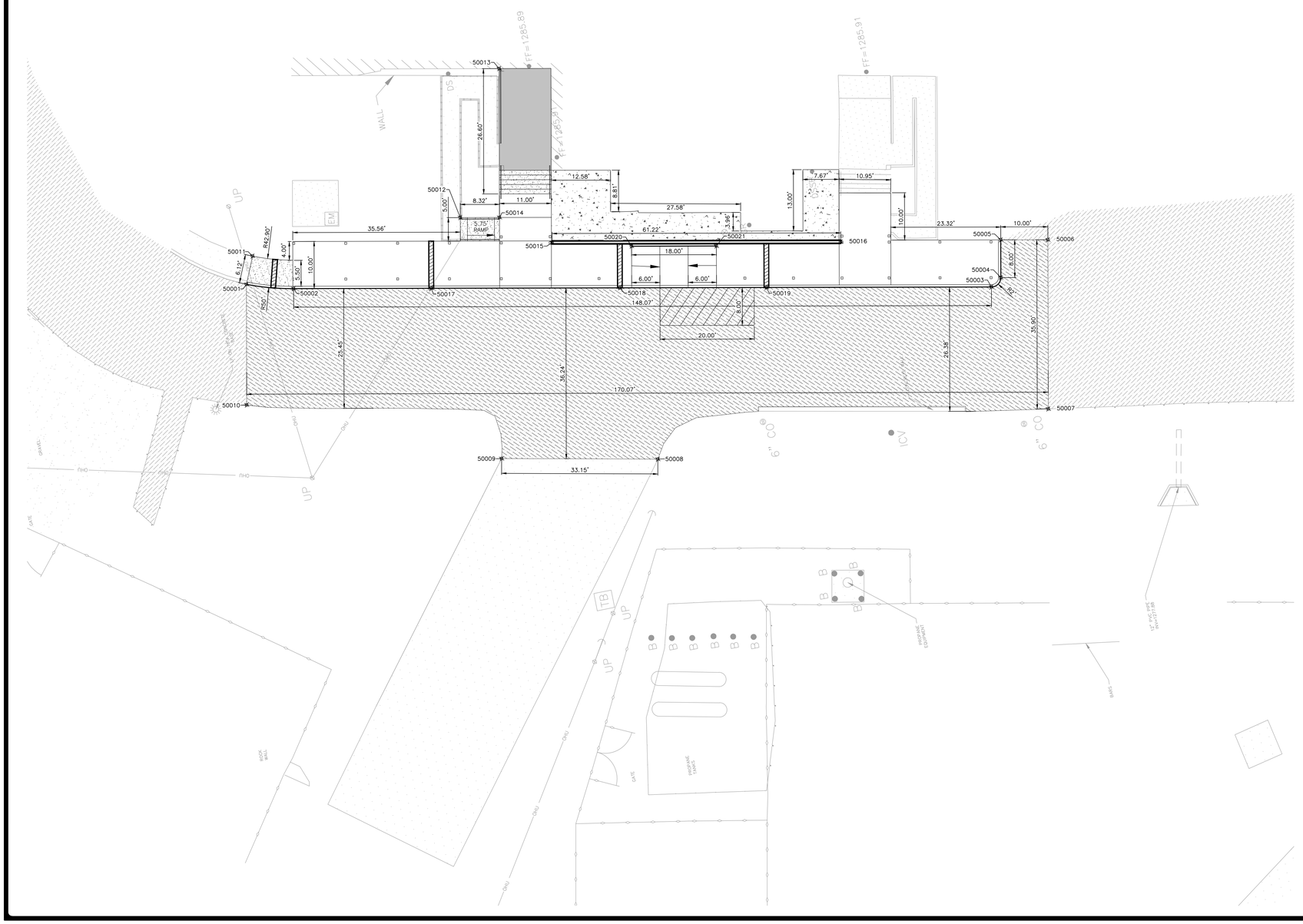

KEY MAP
N.T.S.

SCALE: 1"=10'

10 5 0 10

LEGEND

- - -	PROPERTY LINE
▨	NEW CONCRETE FLATWORK
▨	NEW LIGHT-DUTY ASPHALT
▨	NEW HEAVY-DUTY ASPHALT
▨	NEW CONCRETE PAVEMENT
▨	NEW WASHED RIVER ROCK
▨	NEW SOD

POINT TABLE		
POINT #	NORTHING	EASTING
50001	13846866.7316	2175051.9578
50002	13846857.0959	2175049.1272
50003	13846711.7783	2175020.7270
50004	13846709.4318	2175022.3063
50005	13846707.8974	2175030.1577
50006	13846698.0840	2175028.2399
50007	13846704.9611	2174993.0027
50008	13846788.3070	2174998.6030
50009	13846820.7970	2175005.1640
50010	13846871.6432	2175026.8262
50011	13846864.3053	2175057.5797
50012	13846819.4767	2175057.0589
50013	13846805.2501	2175086.4737
50014	13846811.3107	2175055.4630
50015	13846801.3775	2175048.0874
50016	13846741.2977	2175036.3457
50017	13846828.4207	2175043.5231
50018	13846789.1489	2175035.8480
50019	13846758.6330	2175029.8841
50020	13846785.0067	2175044.0389
50021	13846767.3409	2175040.5864

NO.	DATE	REVISIONS DESCRIPTION	BY

PROJ. # | DSN. BY: | DWN. BY: | CHKD. BY: | DATE:

SEAN S. SMITH
113308
12/20/24

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SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT
DIMENSIONAL CONTROL PLAN - ENLARGED

SHEET
C3.1

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GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK.
2. 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 WILL NOT BE HELD LIABLE FOR ANY ON-SITE WASTE MATERIAL. CONTRACTOR SHALL NOT ALLOW THE ACCUMULATION OF DEMOLISHED WASTE MATERIAL ON-SITE.
3. 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.
4. GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSION & GRADE CONDITIONS (BOTH NEW AND EXISTING). 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.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.
6. 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 SITE(S) 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, AT 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.
7. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL COMPLY WITH THE SEDIMENTATION AND EROSION CONTROL PLANS AND SHALL SUBMIT NOTIFICATIONS AND PAY ALL PERMITS.
8. BARRICADES 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 AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION.
9. 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.
10. ANY EXISTING IMPROVEMENTS AND/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.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION, ANY DAMAGES DONE TO EXISTING FENCES, CURBS, CONCRETE DRIVEWAYS, SIDEWALK STRUCTURES AND PAVEMENT, UTILITY BOXES/VALVES, ETC. THAT ARE NOT INDICATED TO BE REMOVED. AN INVENTORY OF EXISTING CONDITIONS SHALL BE CONDUCTED WITH THE CONTRACTOR AND OWNER PRIOR TO DEMOLITION.
12. 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.
13. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK. 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 ACCURACY, COMPLETENESS, OR SUFFICIENCY OF 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 DURING 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 PURVEYORS DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED.
14. NOTIFY OWNER 72 HOURS IN ADVANCE OF ANY UTILITY SHUTDOWN.
15. ADJUST ALL EXISTING VALVES & UTILITIES TO REMAIN TO FINISH GRADE. REFERENCE DEMOLITION, GRADING, & UTILITY PLANS.
16. CONTRACTOR SHALL COORDINATE ALL DEMOLITION/CONSTRUCTION ACTIVITIES WITH OTHER DISCIPLINES AS REQUIRED.
17. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH UTILITY PLANS.
18. CONTRACTOR IS RESPONSIBLE FOR CLEARING THE ALIGNMENT FOR ALL NEW FENCING. CLEARING TO INCLUDE ALL VEGETATION, TREE LIMBS, AND SHRUBS WITHIN 5' OF NEW FENCE ALIGNMENT ON EACH SIDE. COORDINATE WITH LANDSCAPE/TREE PRESERVATION PLANS AS NEEDED, IF APPLICABLE.
19. CONTRACTOR SHALL IMMEDIATELY REMOVE ALL WATER FROM EXCAVATIONS FOLLOWING RAIN EVENTS. NO STANDING WATER WILL BE ALLOWED IN EXCAVATIONS.
20. CONTRACTOR TO REFERENCE LANDSCAPE PLANS FOR THE REMOVAL OF EXISTING TREES AND THE PROTECTION/PRESERVATION OF EXISTING TREES TO REMAIN, IF APPLICABLE.
21. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL SILT FROM THE DRAINAGE SYSTEM AND FLUSH ALL STORM DRAINS AND CHANNELS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
22. CONTRACTOR IS TO TELEVISE ALL HDPE PIPE INSTALLATION PRIOR TO FINAL ACCEPTANCE.
23. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL STABILIZE ALL DISTURBED SOIL AREAS IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND RE-SOD DISTURBED SOIL AREAS WITH BERMUDA SODDING OR HYDROMULCH TO MATCH CONDITIONS PRIOR TO CONSTRUCTION, OR AS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.

STORM DRAINAGE NOTES:

1. CLEAR COVER FOR REINFORCEMENT STEEL IS 2" UNLESS OTHERWISE NOTED.
2. MATERIAL SPECIFICATIONS:
   A. CONCRETE/CONCRETE RIPRAP: CLASS A 3000 PSI (28-DAY STRENGTH) UNLESS OTHERWISE NOTED ON PLANS.
   B. REINFORCING STEEL: CONFORM TO A.S.T.M. A-615, GRADE 60 (2" CLEAR COVER UNLESS OTHERWISE NOTED ON PLANS)
   C. PIPE RAILING: CONFORM TO A.S.T.M. A-53, GRADE B, OR A-501
3. STORM SEWER PIPE MATERIAL SPECIFICATIONS: PIPE MATERIAL SHALL BE AS NOTED ON DRAINAGE PLANS. WHEN SPECIFIED:
   A. REINFORCED CONCRETE PIPE (RCP) CLASS III, UNLESS OTHERWISE SPECIFIED ON PLAN.
   B. PRECAST BOX CULVERT OLDCASTLE PRECAST TYPE I OR EQUAL APPROVED BY ENGINEER.
   C. POLYVINYL CHLORIDE (PVC) PIPE SHALL BE SDR 26 (115 PSI)
   D. ALUMINIZED STEEL (AS)
      a. CORRUGATIONS: $\frac{3}{4}$"X$\frac{3}{4}$"X7-1/2" HELICAL CORRUGATIONS PER ASSHTO M-36, TYPE IR (ASTM A-760)
      b. MATERIAL: ALUMINIZED TYPE 2 STEEL PER AASHTO M-274 (ASTM A-819)
      c. JOINT: HUGGER BANDS WITH TECHNO ANGLES. CONTRACTOR TO PROVIDE 5-C BANDS WITH BAR BOLT AND STRAP CONNECTION.
      d. THICKNESS: 0.064" (16 GAUGE).
   E. HDPE STORM PIPE TO BE ADS DUAL WALL PIPE N-12 OR APPROVED EQUAL.
4. ALL STORM SEWER INLET GRATES SHALL BE GALVANIZED.
5. CONCRETE COLLARS SHALL BE PROVIDED ON ALL STORM DRAIN TO JUNCTION BOX/GRATE INLET CONNECTIONS. REFERENCE DETAILS.
6. GROUT INVERTS OF ALL JUNCTION BOXES AND GRATE INLETS TO DRAIN.
7. JUNCTION BOXES SHALL HAVE MANHOLES FOR ACCESS WITH BOLTED MANHOLE LIDS.
8. ALL DRAINAGE STRUCTURES, LIDS AND GRATES SHALL BE RATED FOR H20 LOADING.
9. ALL PIPE TRENCHES SHALL CONTAIN FILTER FABRIC BETWEEN THE INITIAL AND SECONDARY BACKFILL. REFERENCE DETAILS AND SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS.
10. PROVIDE CONCRETE APRONS AROUND ALL INLETS NOT IN PAVEMENT AREAS AS PER CIVIL DETAILS.
11. 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.
12. ALL CURB INLETS TO BE INSTALLED WITH STEEL ARMOR AT THE CURB OPENING.
13. PROVIDE ECCENTRIC REDUCERS ON SDR 26 PVC/HDPE STORM PIPE WHERE PIPE DIAMETERS INCREASE IN SIZE.

TREE PROTECTION NOTES:

1. ALL PROTECTED SIZE TREES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED ACCORDING TO ITEM No. 802. (TREE PRUNING, SOIL AMENDING AND FERTILIZATION), UNLESS SPECIFIED TREES SHALL RECEIVE LEVEL 1 PROTECTION AS PER ITEM No. 801. (TREE AND LANDSCAPE PROTECTION) AND AS DETAILED IN 1.1.2.
2. ALL TREES SHALL REMAIN UNLESS NOTED ON THE CITY APPROVED PLANS.
3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND PROTECTION MEASURES HAVE NOT BEEN COMPLETED AND APPROVED BY THE CITY ARBORIST OFFICE.
4. TREE PROTECTION FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
5. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES (3") IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR IF ROOTS LARGER THAN THREE INCHES (3") WITHIN THE FIVE FOOT (5') ROOT PROTECTION ZONE NEED TO BE PRUNED.
6. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS ONE FOOT (1') PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A TEN INCH (10") DIAMETER TREE WOULD HAVE A TEN FOOT (10') RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS, OUTLINED BELOW. All OAK WOUNDS SHALL BE PAINTED OVER, WITHIN TWENTY (20) MINUTES TO PREVENT OAK WILT.
   A. CONTRACTOR TO REMOVE SECTION OF ROOT BY CUTTING WITH A HAND SAW OR RECIPROCATING SAW (CLEAN-SHARP BLADE). APPLY TREE-PRUNING SEALER TO END OF THE LIVE ROOT. BACKFILL THE AREA WITH QUALITY 4-WAY LANDSCAPER MIX AND HAND TAMP. DRENCH AND SATURATE IMPACTED AREA WITH WATER MIXED WITH SUPER-THRIVE AND ALLOW MIXTURE TO COMPLETELY PERCOLATE INTO THE SOIL. AFTER AREA AROUND ROOT HAS BEEN ADDRESS AND SATURATED, APPLY LANDSCAPE MULCH AROUND THE ENTIRE BASE OF THE TREE AND TREAT ENTIRE BASE OF TREE WITH SUPER-THRIVE APPLICATION AND WATERING.
7. NO DISTURBANCE SHALL OCCUR CLOSER TO THE TRUNK THAN HALF THE ROOT PROTECTION ZONE AREA.
8. TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND.
9. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED.
10. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
11. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST OFFICE PRIOR TO ITS REMOVAL.

LANDSCAPE NOTES:

PROVIDE 4" OF APPROVED TOPSOIL ALONG WITH SOLID SOD (BERMUDA TIF 419) ON ALL AREAS SHOWN TO RECEIVE SOLID SOD. CONTRACTOR TO NOTIFY ENGINEER PRIOR TO SOD PLACEMENT TO VERIFY TOPSOIL DEPTH.

PROVIDE 4" OF APPROVED TOPSOIL ON ALL OTHER AREAS DISTURBED BY REGRADING / CONSTRUCTION ACTIVITIES ALONG WITH GRASS HYDROMULCH.

TOPSOIL TO BE NEWEARTH ENRICHED TOPSOIL, OR APPROVED EQUAL.

GRASS SEED HYDROMULCHING WILL BE DONE UTILIZING A SLURRY BLEND OF SEEDS, MULCH, WATER AND TACKYFIER AND WILL BE TRANSPORTED IN A TANK, TRUCK OR TRAILER AND SPRAYED OVER PREPARED GROUND.

IF HYDROMULCH SEED IS APPLIED AFTER SEPTEMBER 15, SEED MIX SHALL BE UNHULLED COMMON BERMUDA (CYNODON CACTYLON) – 2 POINDS PER 1000 S.F. AND WINTER RYE GRASS (LOLIUM PERENNE) – 4 POUNDS PER 1000 S.F.

CONTRACTOR SHALL PROVIDE AND MAINTAIN AN ABOVE GROUND PVC TEMPORARY IRRIGATION SYSTEM WITH TIMER UNTIL THE HYDROMULCH GRASS SEED IS ESTABLISHED. IF WATER IS NOT READILY AVAILABLE, CONTRACTOR IS RESPONSIBLE FOR TRUCKING WATER TO ESTABLISH VEGETATION. CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE REVEGETATED AREAS UNTIL THE PROJECT ENGINEER CONFIRMS THETEMPORARY IRRIGATION CAN BE REMOVED. CONTRACTOR TO MOW AND EDGE NEWLY PLANTED GRASS WEEKLY WHEN GROWTH REACHES 2 ½". MAINTAIN AT THIS HEIGHT WEEKLY.

CONTRACTOR TO VERIFY WATER SOURCES PRIOR TO SUBMITTING BIDS. IF WATER IS NOT READILY AVAILABLE, CONTRACTOR TO ACCOUNT FOR WATER TO BE BROUGHT TO THE SITE AT THEIR EXPENSE. IF WATER IS AVAILABLE, CONTRACTOR TO PROVIDE BACKFLOW PREVENTOR ON PROPOSED TEMPORARY IRRIGATION.

SUBSTANTIAL COMPLETION WILL NOT BE ACCEPTED UNTIL SOLID SOD AND HYDROMULCH SEED HAS BEEN ESTABLISHED

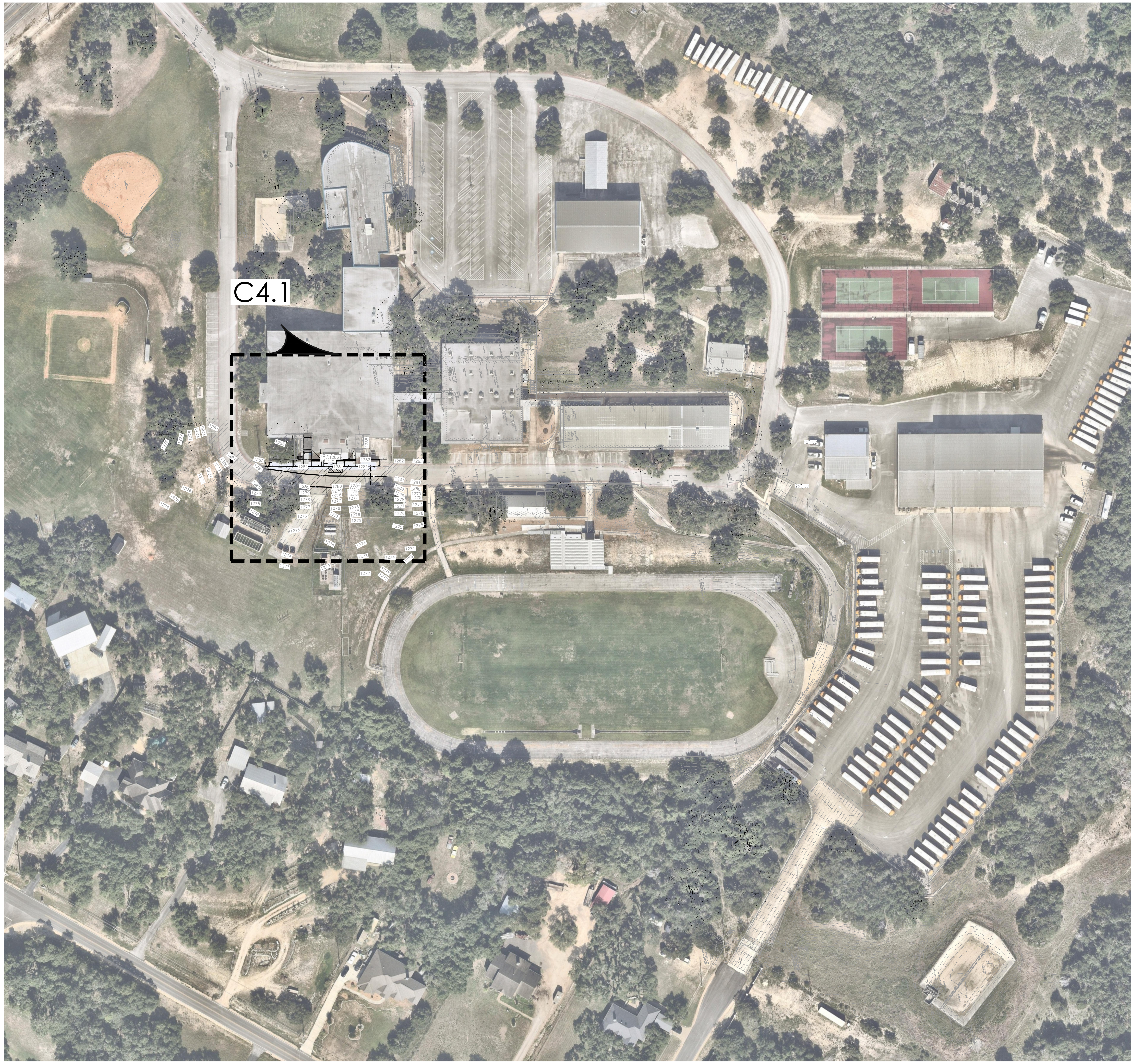
PAINT SPECFICATION

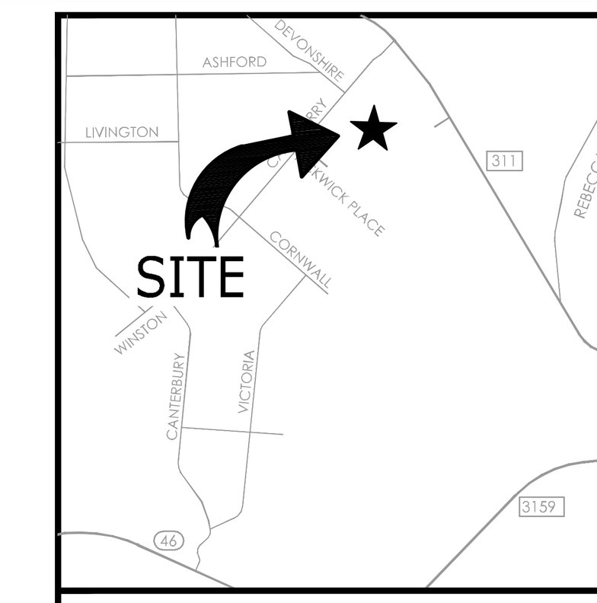
THE PAVEMENT MARKING PAINT TO BE USED ON THIS PROJECT WILL BE GORILLA HI-PERFORMANCE ACRYLIC ZONE MARKING PAINT FROM AEXCEL OR APPROVED EQUAL. WHITE PAINT 22W-E008, LEAD-FREE YELLOW 22Y-E006, BLUE PAINT 22L-E004, BLACK 22A-E001. RED PAINT TO BE ENNIS-FLINT EF SERIES LOW VOC SOLVENT BASED TRAFFIC PAINT PRODUCT CODE: 9855154 OR APPROVED EQUAL.

SURFACE PREPARATION: SURFACES WILL BE CLEAN, DAY AND FREE FROM LOOSE OR PEELING SURFACES. DO NOT APPLY WHEN AIR TEMPERATURES ARE BELOW 50DEG. F. OR WHEN THE RELATIVE HUMIDITY EXCEEDS 85%, OR WHEN THE TEMPERATURE FALLS BELOW THE DEW POINT. IT IS RECOMMENDED TO PLACE AN INCONSPICUOUS TEST STRIP TO DETERMINE IF THE NEW ASPHALT SURFACES HAVE CURED SUFFICIENTLY TO PAINT. WAIT 24 HOURS AFTER A RAIN TO PAINT ASPHALT SURFACES.

APPLICATION RATES: APPLY PAINT AT FILM THICKNESS AND SPREADING RATE AS RECOMMENDED BY THE PAINT SUPPLIER. ALL OF THE NEW ASPHALT SURFACES WILL BE PAINTED WITH TWO (2) COATS OF 15.0 MILS WET, 8.0 MILS DRY. THE FIRST COAT MUST BE COMPLETELY DRY BEFORE THE SECOND COAT IS APPLIED. WAIT A MINIMUM OF 48 HOURS BETWEEN THE ASPHALT PLACEMENT/SEAL COAT AND THE PERMANENT TRAFFIC STRIPING AND MARKINGS.

IF 48 HOURS CANNOT BE ACHIEVED CONTRACTOR TO PROVIDE TWO (2) ADDITIONAL COATS OF 15.0 MILS WET, 8.0 MILS DRY 10 DAYS AFTER INITIAL PLACEMENT AT NO ADDITIONAL COST TO THE OWNER. THE ADDITIONAL COATS ARE TO BE COORDINATED WITH THE OWNER AND WILL NOT DISRUPT OPERATIONS.





LOCATION MAP
N.T.S.

SCALE: 1"=60'
60 30 0 60

LEGEND

	PROPERTY LINE
	NEW CONCRETE FLATWORK
	NEW LIGHT-DUTY ASPHALT
	NEW HEAVY-DUTY ASPHALT
	NEW CONCRETE PAVEMENT
	NEW WASHED RIVER ROCK
	NEW SOD
+802.00	EXISTING SPOT ELEVATION
(802.00)+	PROPOSED SPOT ELEVATION
802	EXISTING CONTOUR
802	PROPOSED CONTOUR
	GRADE BREAK
	CHAIN LINK FENCE
	ORNAMENTAL FENCE
	WOODEN FENCE
	WIRE FENCE
	FLOW LINE
RCP	REINFORCED CONCRETE
PVC	PIPE POLYVINYL CHLORIDE INVERT
INV	ELEVATION OF PIPE
TW	TOP OF WALL ELEVATION
BW	BOTTOM OF WALL ELEVATION
TOP	TOP OF MANHOLE ELEVATION
TOG	TOP OF GRATE ELEVATION
TC	TOP OF CURB
G	GUTTER
SW	TOP OF SIDEWALK
NG	NATURAL GROUND
ESM'T	EASEMENT
ROW	RIGHT OF WAY
HP	HIGH POINT
E.G.T.CATV	ELECTRIC, GAS, TELEPHONE & CABLE T.V
	SIDEWALK RAMP
	DRAINAGE FLOW ARROW
	PROPOSED TRAFFIC SIGN

REVISIONS

NO.	DATE	DESCRIPTION	BY

PROJ. # | DWN. BY | DSGN BY | CHKD. BY | DATE

STATE OF TEXAS
SEAN S. SMITH
113308
REGISTERED PROFESSIONAL ENGINEER
12/20/24

MTR
Moy Tarin Ramirez Engineers, LLC
· Engineers · Surveyors · Planners
TBPELS: ENGINEERING F-5297 / SURVEYING F-10131500
12770 CIMARRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249
TEL: (210) 698-5051
FAX: (210) 698-5085

COMAL ISD
SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT
OVERALL GRADING PLAN

SHEET
C4.0

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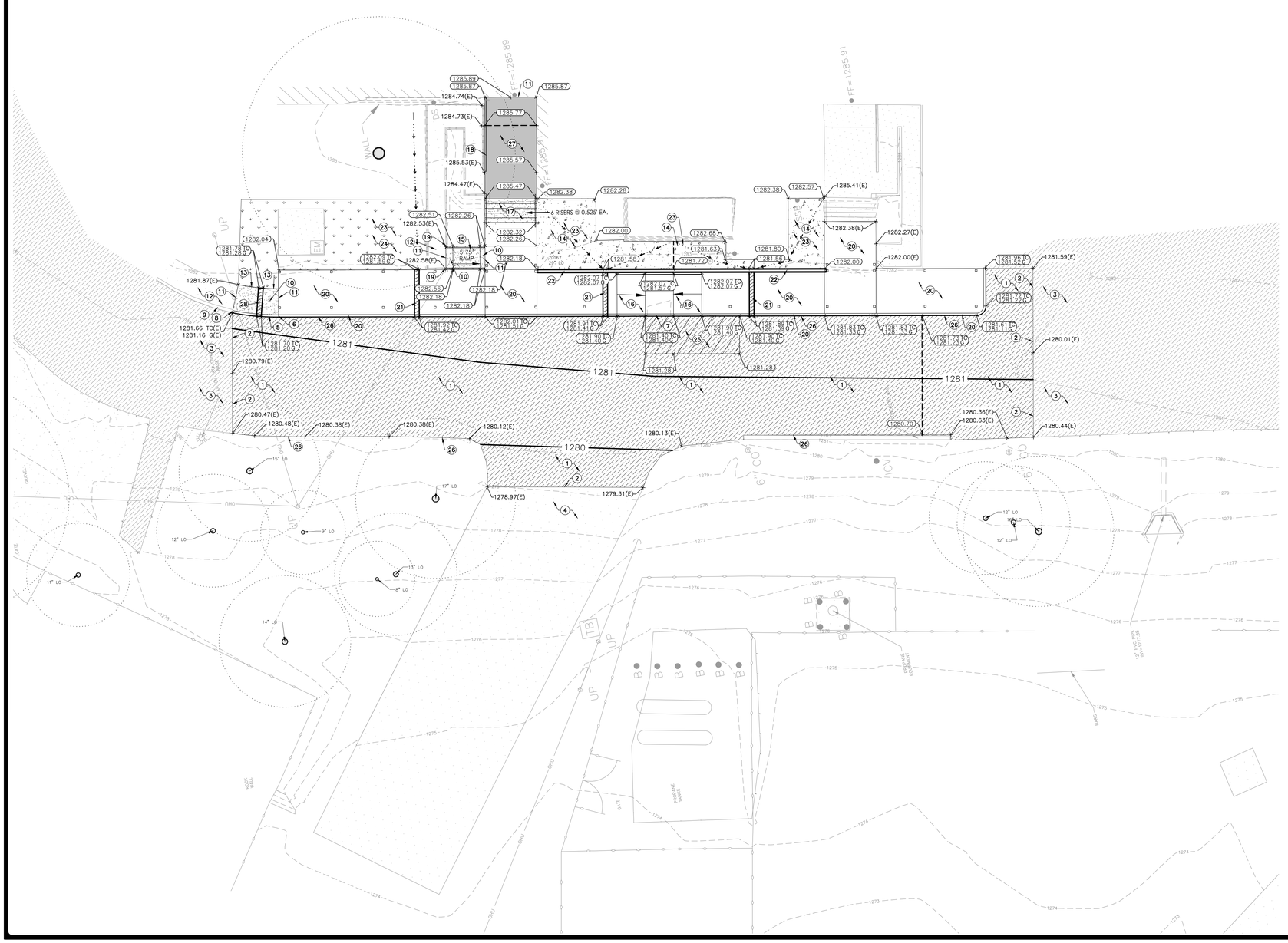

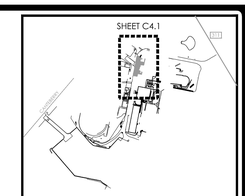

KEY MAP
N.T.S.

SCALE: 1"=10'
10 5 0 10

GRADING KEYNOTES

1. NEW ASPHALT PAVEMENT SECTION. REFERENCE DETAIL NO. 1B, SHEET C5.0.
2. NEW ASPHALT PAVEMENT TO MATCH EXISTING ASPHALT PAVEMENT. REFERENCE ASPHALT PAVEMENT JUNCTURE DETAIL NO. 2, SHEET C5.0.
3. EXISTING ASPHALT PAVEMENT TO REMAIN IN PLACE.
4. EXISTING CONCRETE PAVEMENT TO REMAIN.
5. NEW 6" CONCRETE CURB. REFERENCE DETAIL NO. 3, SHEET C5.0.
6. NEW 6" CONCRETE CURB TO MATCH STRUCTURAL. CONTRACTOR TO DOWEL INTO STRUCTURAL WITH TWO EA. 18" #4 DOWEL BARS.
7. SECTION OF FLUSH CONCRETE CURB TO ALLOW FOR ACCESS/DRAINAGE.
8. NEW CONCRETE CURB TO MATCH EXISTING. CONTRACTOR TO PROVIDE EXPANSION JOINT W/ TWO EA. #4 18" DOWELS DRILLED INTO EXISTING CONCRETE AT JUNCTURE.
9. EXISTING CONCRETE CURB TO REMAIN IN PLACE.
10. NEW CONCRETE SIDEWALK/FLATWORK. REFERENCE DETAIL NO. 5, SHEET C5.0.
11. NEW CONCRETE SIDEWALK/FLATWORK TO MATCH EXISTING. PROVIDE EXPANSION JOINT AT JUNCTURE PER DETAIL NO. 5, SHEET C5.0.
12. EXISTING CONCRETE SIDEWALK/FLATWORK/RIGID PAVEMENT/STRUCTURAL CONCRETE TO REMAIN IN PLACE.
13. NEW THICKENED EDGE ON CONCRETE FLATWORK. REFERENCE DETAIL NO. 5E, SHEET C5.0.
14. NEW CONCRETE RIPRAP SLOPED TO DRAIN. REFERENCE DETAIL NO. 4, SHEET C5.0.
15. NEW CONCRETE RAMP WITH ADJACENT HANDRAILS. HANDRAILS TO EXTEND 1' PAST THE SLOPE OF THE RAMP. REFERENCE DETAILS 1 AND 2, SHEET C5.1.
16. NEW SLOPED RAMP. CONTRACTOR TO SLOPE ADJACENT CURB WITH RAMP. REFERENCE DETAIL NO. 6, SHEET C5.0. REFERENCE STRUCTURAL PLANS FOR CONCRETE DETAILS.
17. NEW CONCRETE RISERS WITH ADJACENT HANDRAILS. REFERENCE DETAIL NO. 2 AND 3, SHEET C5.1.
18. NEW HANDRAIL. REFERENCE DETAIL NO. 1, SHEET C5.1.
19. NEW HANDRAIL TO MATCH EXISTING. CONTRACTOR TO PROVIDE A SLIP JOINT OVER THE NEW AND EXISTING RAIL. TACK THE SLIP JOINT AND COLD GALVANIZE THE WELD.
20. NEW STRUCTURAL CONCRETE AND CANOPY SYSTEM. REFERENCE STRUCTURAL PLANS FOR DIRECTION. CONTRACTOR TO MATCH THE CURB PROFILE PER DETAIL NO. 3, SHEET C5.0.
21. NEW SIDEWALK DRAIN. REFERENCE STRUCTURAL PLANS FOR DIRECTION.
22. NEW WALL. REFERENCE STRUCTURAL PLANS FOR DIRECTION.
23. CONTRACTOR TO SLOPE AREA TO DRAIN.
24. NEW SOLID GRASS SOD. REFERENCE LANDSCAPE NOTES, SHEET C4.0.
25. NEW PAVEMENT STRIPED ISLAND. REFERENCE PAINT SPECIFICATION, SHEET C4.0. REFERENCE DETAIL NO. 9, SHEET C5.0.
26. NEW FIRE LANE STRIPING. REFERENCE DETAIL NO. 7, SHEET C5.0.
27. CONTRACTOR TO CHIP AND TOP EXISTING STRUCTURAL CONCRETE. REFERENCE DETAIL NO. 8, SHEET C5.0.
28. NEW SIDEWALK DRAIN. REFERENCE DETAIL NO. 10, SHEET C5.0.

LEGEND

	PROPERTY LINE
TOP	NEW CONCRETE FLATWORK
	NEW LIGHT-DUTY ASPHALT
	NEW HEAVY-DUTY ASPHALT
	NEW CONCRETE PAVEMENT
	NEW WASHED RIVER ROCK
	NEW SOD
+802.00	EXISTING SPOT ELEVATION
802.00	PROPOSED SPOT ELEVATION
802	EXISTING CONTOUR
802	PROPOSED CONTOUR
	GRADE BREAK
	CHAIN LINK FENCE
	ORNAMENTAL FENCE
	WOODEN FENCE
	WIRE FENCE
	FLOW LINE
RCP	REINFORCED CONCRETE
PVC	PIPE POLYVINYL CHLORIDE INVERT
INV	ELEVATION OF PIPE
TW	TOP OF WALL ELEVATION
BW	BOTTOM OF WALL ELEVATION
TOP	TOP OF MANHOLE ELEVATION
TOG	TOP OF GRATE ELEVATION
TC	TOP OF CURB
G	GUTTER
SW	TOP OF SIDEWALK
NG	NATURAL GROUND
ESM'T	EASEMENT
ROW	RIGHT OF WAY
HP	HIGH POINT
E.G.T.CATV	ELECTRIC, GAS, TELEPHONE & CABLE T.V
	SIDEWALK RAMP
	DRAINAGE FLOW ARROW
	PROPOSED TRAFFIC SIGN

NO.	DATE	REVISIONS DESCRIPTION	PROJ. #	DSN. BY:	DWN. BY:	CHKD. BY:	DATE

STATE OF TEXAS
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COMAL ISD
SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT

GRADING PLAN - ENLARGED

SHEET
C4.1

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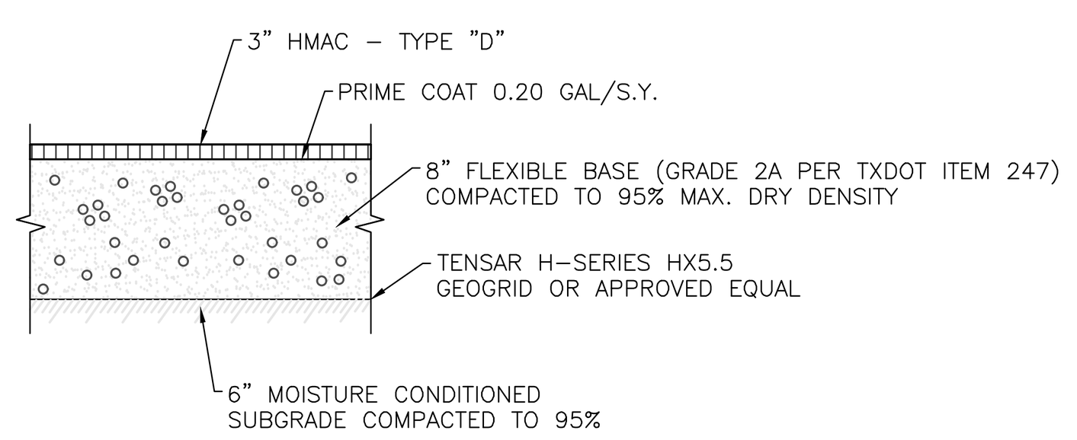
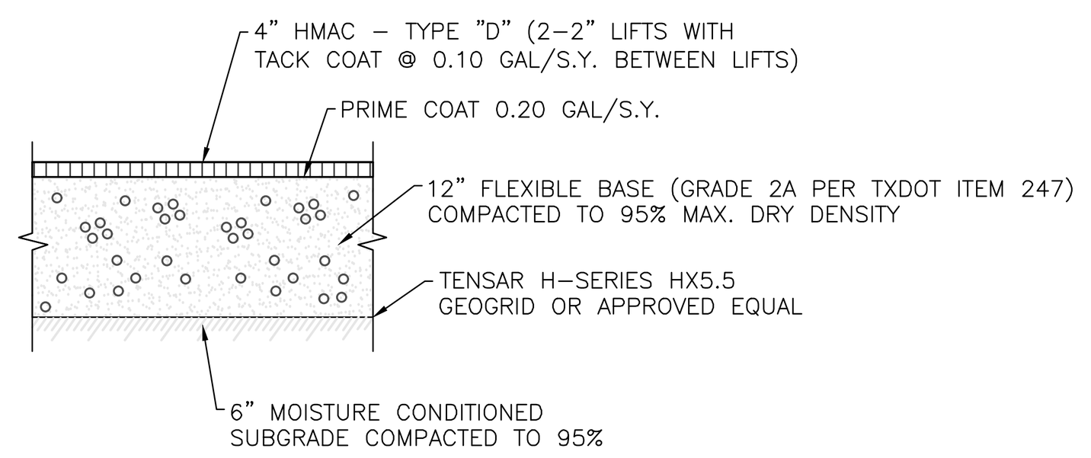
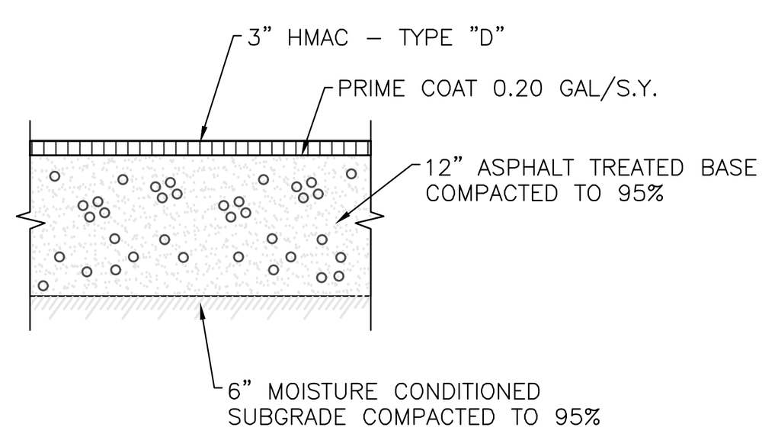


A. LIGHT DUTY ASPHALT PAVEMENT SECTION



B. HEAVY DUTY ASPHALT PAVEMENT SECTION



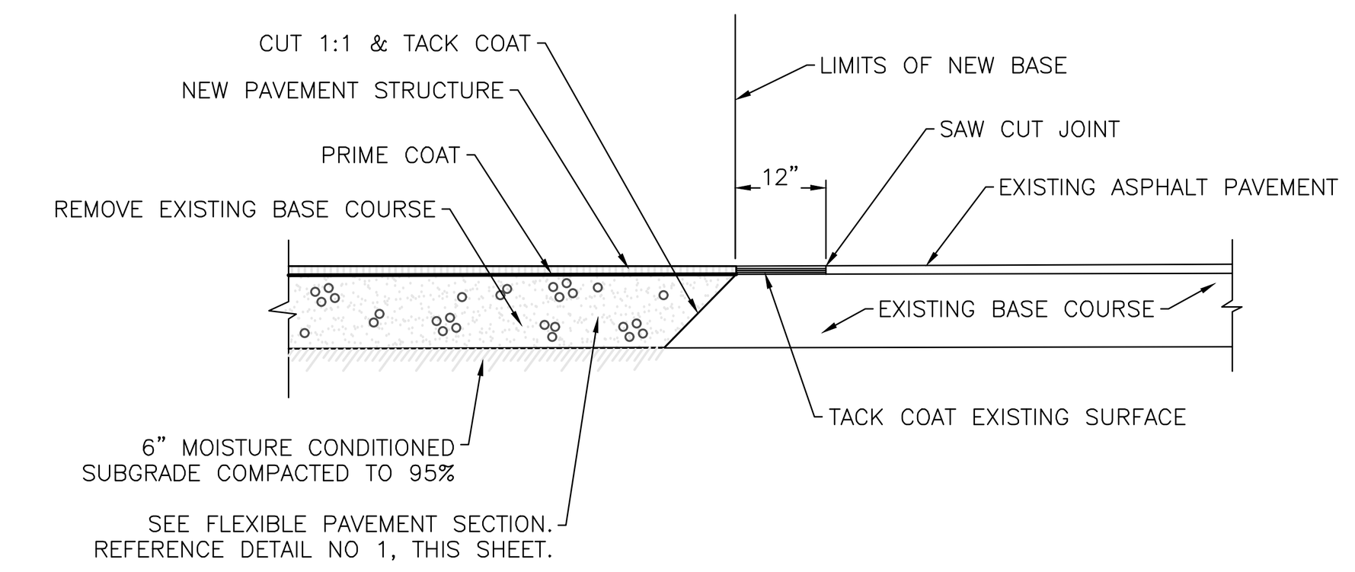
C. ASPHALT PATCH SECTION IN PUBLIC ROW

NOTES:

1. ALL SUBGRADE IN PAVEMENT AREAS SHALL PASS A PROOF ROLL OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO FLEXIBLE BASE PLACEMENT.
2. LIME TREATMENT SHALL BE PER TXDOT STANDARD SPECIFICATION, ITEM 260. PROVIDE AN ESTIMATED 7% LIME BY WEIGHT AND COORDINATE WITH OWNER'S GEOTECHNICAL ENGINEER FOR DETERMINATION OF OPTIMUM CONTENT. PLACEMENT OF LIME TREATED MATERIAL SHALL BE IN LOOSE LIFTS NOT TO EXCEED 8" THICK AND COMPACTED TO 95% MIN. AT A MOISTURE CONTENT OF OPTIMUM TO +4% (ASTM D698). ALLOW LIME TREATED MATERIAL 48–72 HOURS FOR ADEQUATE CURING.

1 FLEXIBLE PAVEMENT DETAIL

SCALE: NONE

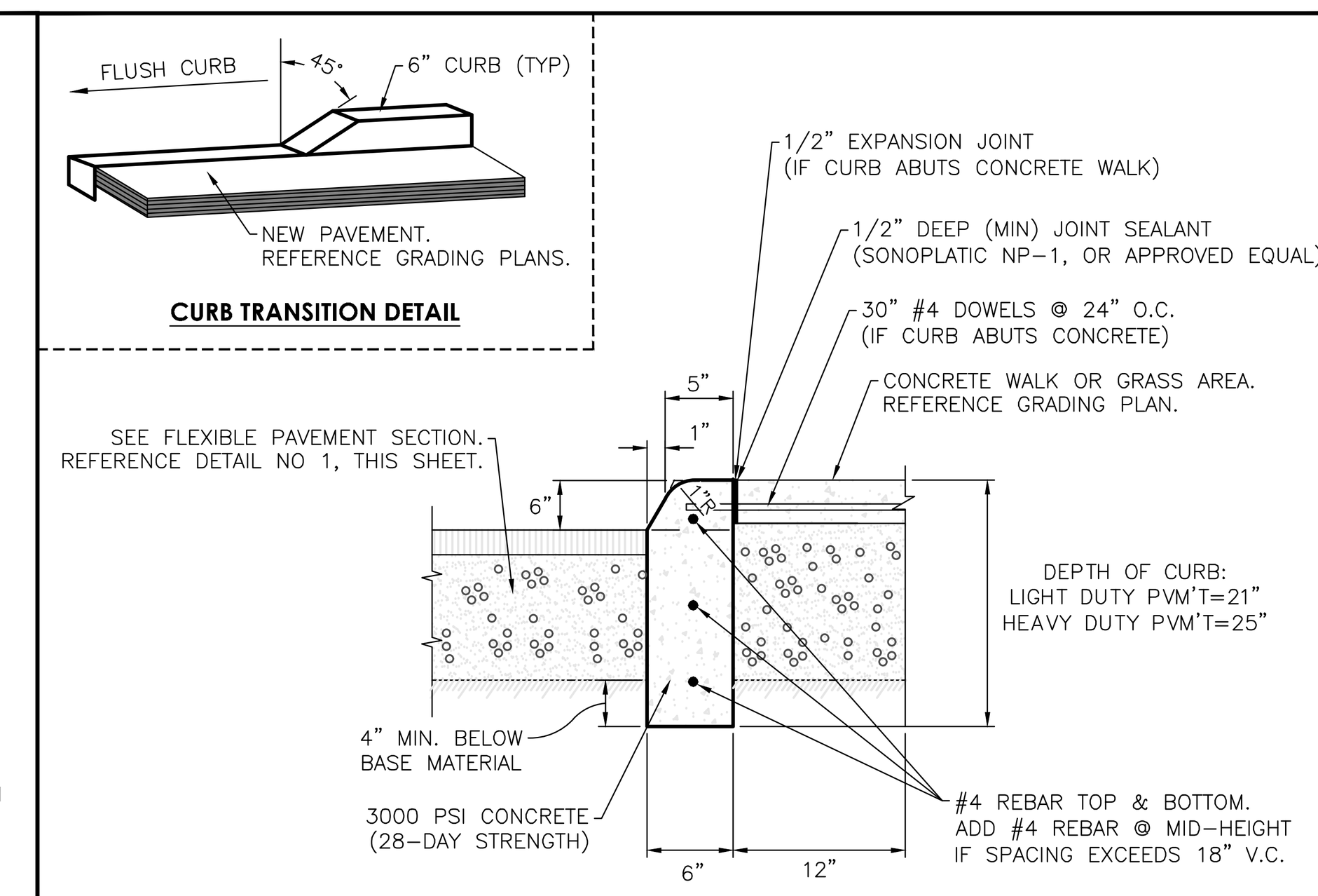


NOTES:

1. APPLY PRIMER IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS.
   A. APPLY PRIMER EVENLY AND SMOOTHLY ON BASE OR SUB-BASE OVER SUB-GRADE SURFACE AT UNIFORM RATE NOT TO EXCEED 0.20 GALLONS/SQUARE YARD OF SURFACE OR AS APPROVED BY CIVIL ENGINEER.
   B. USE CLEAN SAND TO BLOT EXCESS PRIMER.
2. APPLY TACK COAT IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS.
   A. APPLY AT A RATE OF 0.11 GALLONS/SQUARE YARD OR SURFACE OR AS APPROVED BY CIVIL ENGINEER.
   B. APPLY TACK COAT TO CONTACT SURFACES OF EXISTING ASPHALT SURFACES WHERE THE NEW ENTRANCE DRIVES TRANSITION TO THE EXISTING STREET.
3. PLACE ASPHALT WITHIN TWENTY-FOUR (24) HOURS OF APPLYING PRIMER OR TACK COAT.

2 ASPHALT PAVEMENT JUNCTURE DETAIL

SCALE: NONE

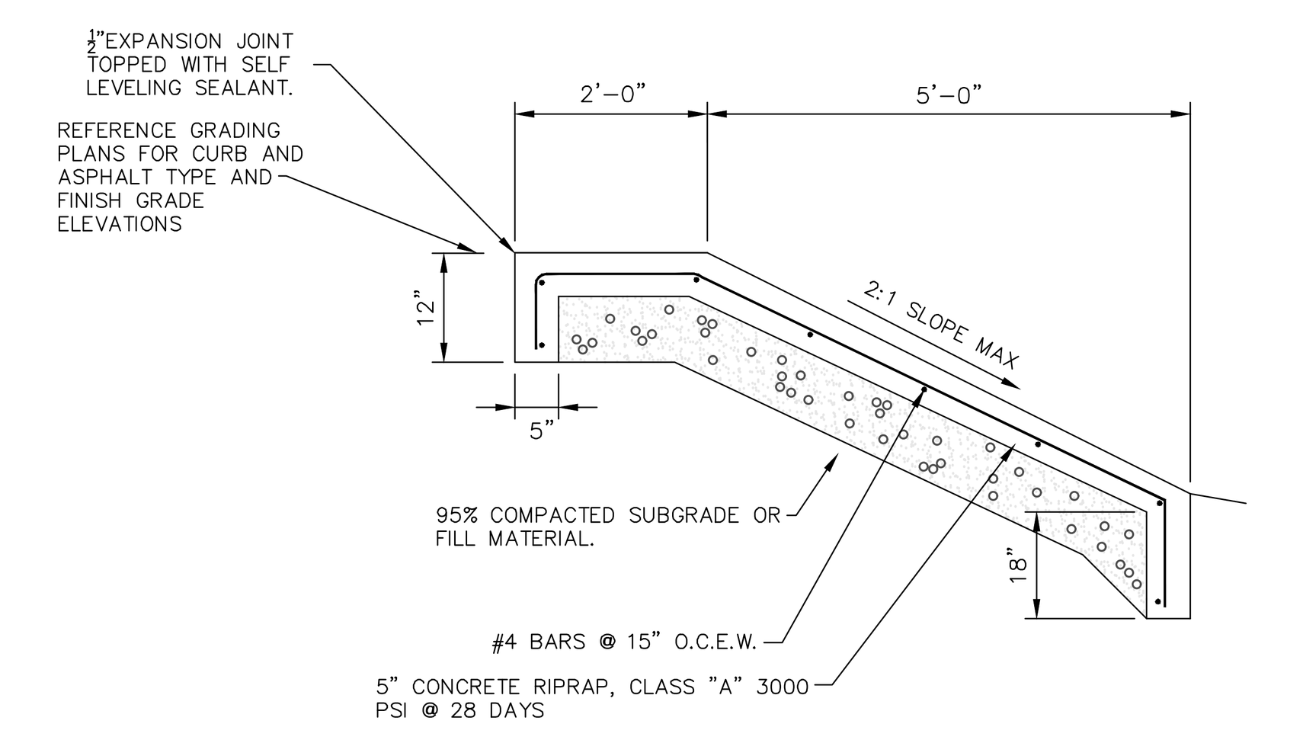


NOTES:

1. PROVIDE CONTROL JOINTS @ 15' O.C. & EXPANSION JOINTS @ 60' O.C.
2. SEAL ALL JOINTS WITH JOINT SEALANT (MASTERSEAL NP-1, OR APPROVED EQUAL).
3. CONCRETE CURB 4,000 PSI. SLUMP = 3.0" ± 1.0".
4. WATER TO CEMENT RATIO (LBS/LBS) CANNOT EXCEED 0.50.

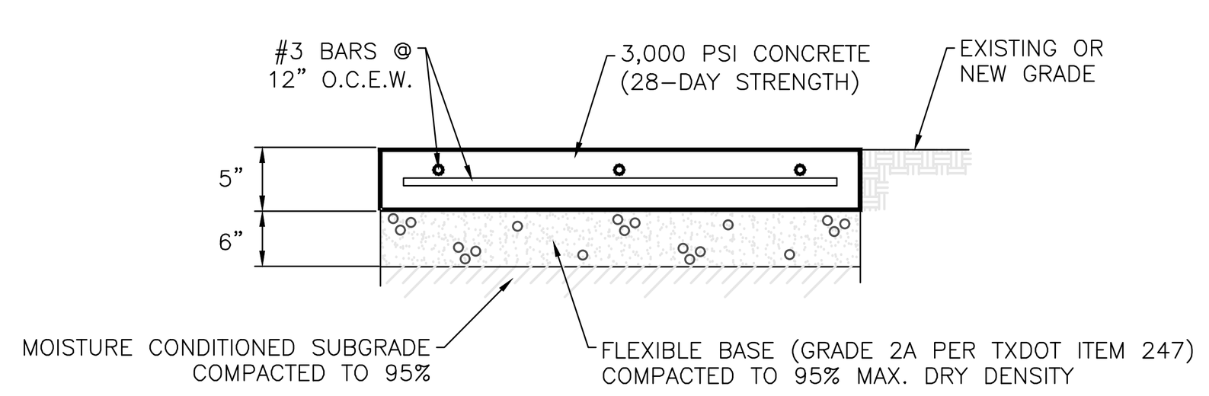
3 CONCRETE CURB DETAIL

SCALE: NONE

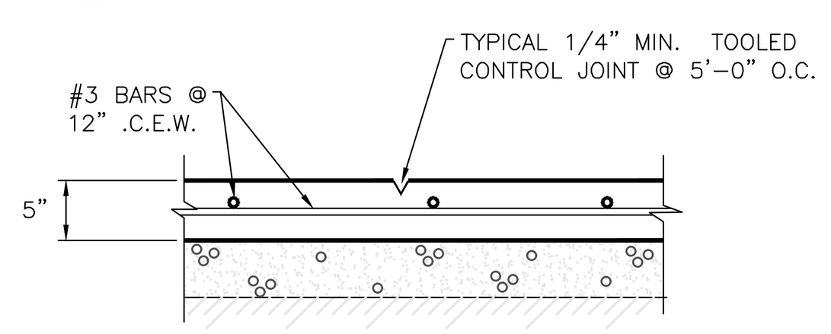


4 SLOPED CONCRETE RIP-RAP DETAIL

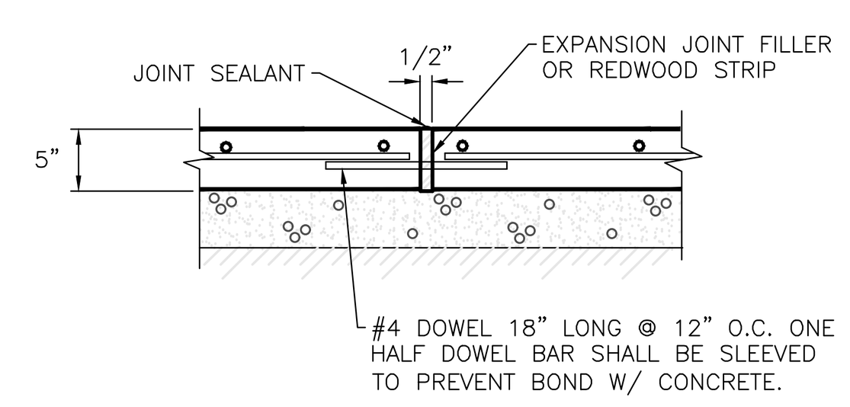
SCALE: NONE



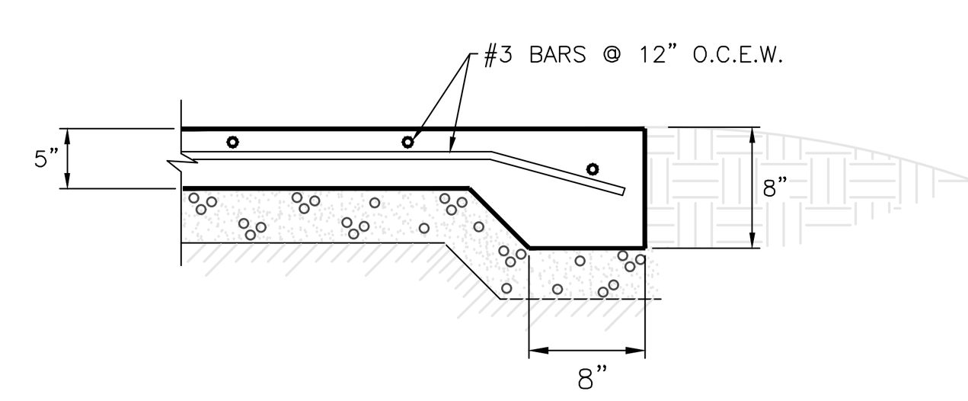
A **TYPICAL CONCRETE SIDEWALK/FLATWORK SECTION**
SCALE: NONE



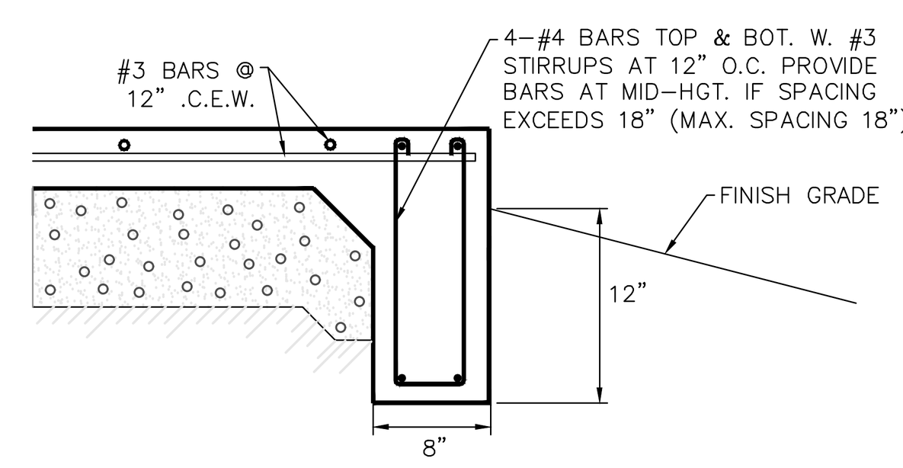
B **TYPICAL CONTROL JOINT**
SCALE: NONE



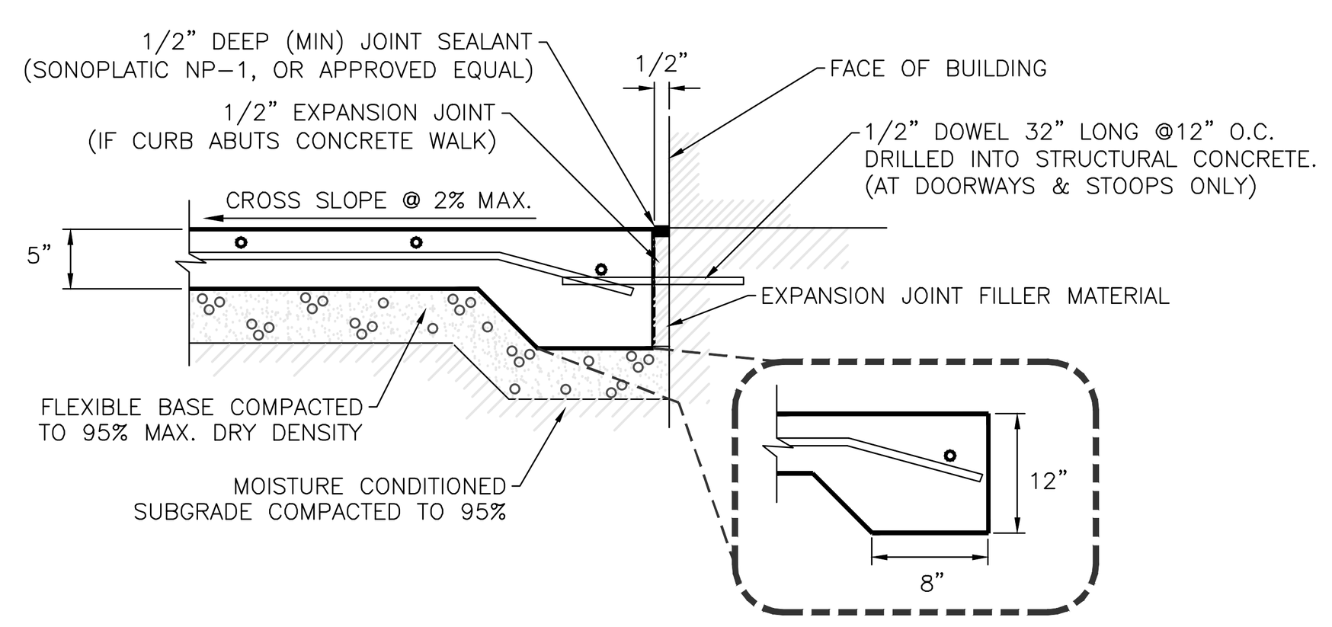
C **TYPICAL EXPANSION JOINT**
SCALE: NONE



D **EDGE ADJACENT TO NATURAL GRADE**
SCALE: NONE



E **THICKENED EDGE**
SCALE: NONE



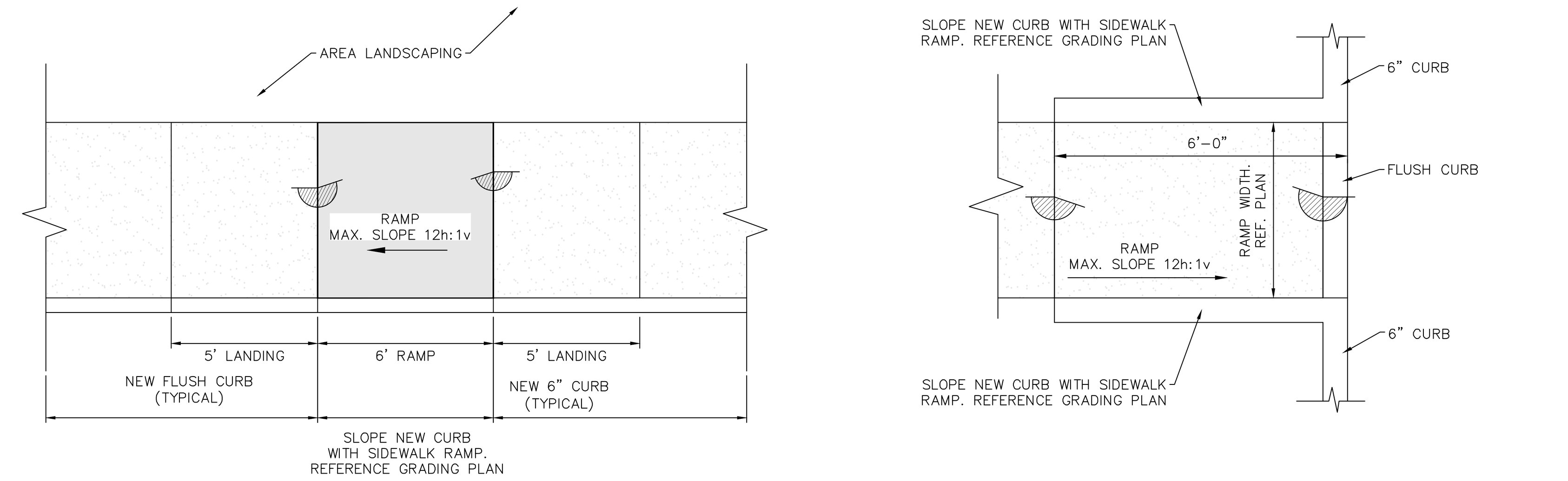
F **TYPICAL EXPANSION JOINT @ CONCRETE WALK/BLDG OR CONCRETE PAVEMENT INTERFACE**
SCALE: NONE

GENERAL NOTES FOR CONCRETE SIDEWALKS:

1. ALL SIDEWALKS SHALL BE A MINIMUM 3000 PSI CONCRETE WITH NO. 3 BARS AT 12" INCHES ON CENTER.
2. SLOPE SIDEWALKS AWAY FROM BUILDING AS INDICATED ON DRAWINGS OR AT 2% MAX.
3. PROVIDE SIDEWALK WITH A HORIZONTAL (CROSS) BRUSH FINISH ON ALL SURFACES.
4. GROOVE CONTRACTION JOINTS SHALL BE SPACED 5 FT. ON CENTERS, WITH 1/2" ELASTOMERIC EXPANSION JOINTS AT EVERY 30 FT. IN LARGER AREAS PROVIDE CONTRACTION JOINTS AT 10' O.C.E.W. WITH 1/2" EXPANSION JOINTS AT 30' O.C.E.W.
5. PROVIDE A 1/2" ELASTOMETRIC EXPANSION JOINT ALONG NEW BUILDING BETWEEN ALL NEW SIDEWALK. SEAL WITH NP1 JOINT SEALANT.
6. ALL BASE MATERIAL UNDER SIDEWALKS TO BE MOISTURE CONDITIONED AND COMPACTED.
7. MAINTAIN 2" OF CLEAR COVER BETWEEN REINFORCING STEEL AND EDGE OF CONCRETE, BASE MATERIAL AND/OR SUBGRADE. CONTRACTOR TO PROVIDE BRICK SUPPORTS WITH WIRE TIES FOR REINFORCING STEEL. NO REBAR SHALL EXTEND INTO BASE/SUBGRADE.
8. ALL DOWEL BARS SHALL BE SMOOTH AND ALL REINFORCING BARS SHALL BE DEFORMED "REBAR" BOTH DOWELS AND REBAR SHALL BE AT A MINIMUM GRADE 60.
9. CONTRACTOR SHALL SUBMIT JOINTING PLAN TO ENGINEER FOR REVIEW PRIOR TO PLACEMENT OF CONCRETE.
10. CONCRETE FLATWORK 3,000 PSI. SLUMP = 4.0" ± 1.0".
11. WATER TO CEMENT RATIO (LBS/LBS) CANNOT EXCEED 0.50.
12. CONTRACTOR TO PROVIDE A THICKER EDGE ADJACENT TO ALL NATURAL GRADE AND LANDSCAPE AREAS. REFERENCE SECTION D.

5 SIDEWALK/FLATWORK DETAILS

SCALE: NONE



NOTES:

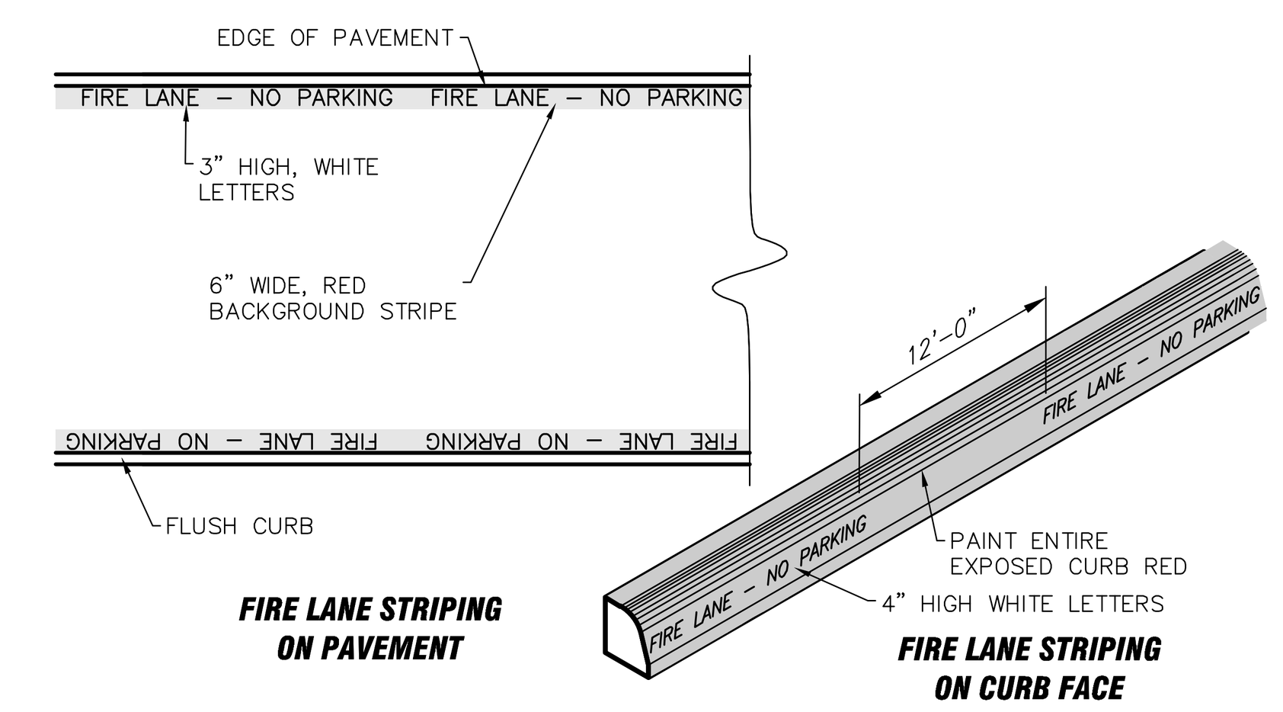
1. RAMP SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. STAIN CONCRETE WITH KEMIKO STONE TONE CONCRETE ACID STAIN, OR APPROVED EQUAL, AND APPLY PER MANUFACTURER RECOMMENDATIONS. COLOR TO BE SPECIFIED BY OWNER. TDLR RAMP SURFACES TEXTURES NOT REQURED. PROVIDE BROOM FINISH ON CONCRETE.

6 PLAN - SINGLE PARALLEL CURB RAMP DETAIL - NOT WITHIN PUBLIC R.O.W.

SCALE: NONE

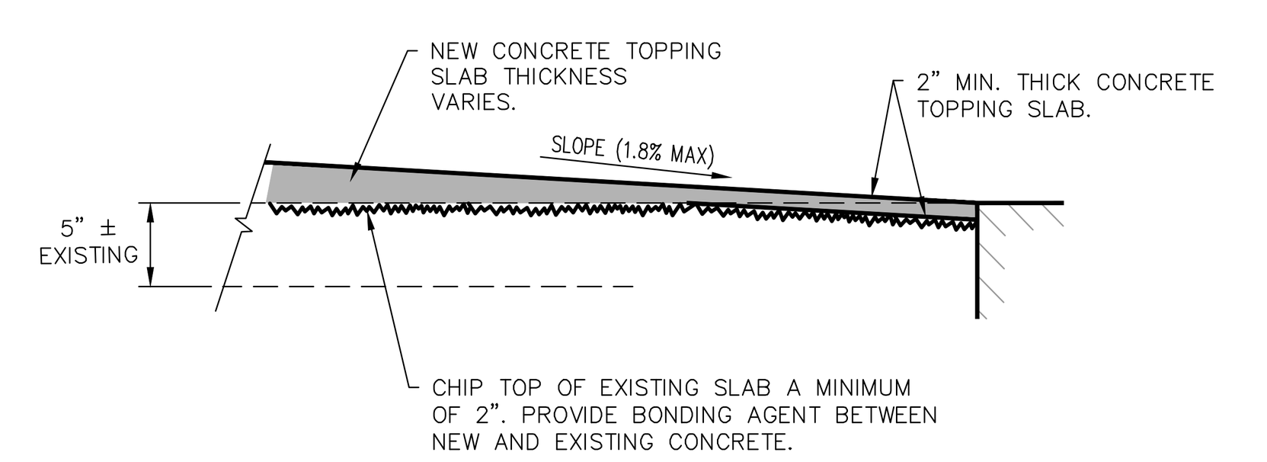
NOTES:

1. THE SIGNS AND MARKINGS SHALL BE PLACED AS FOLLOWS:
   STRIPING – THE TOP AND FACE OF ROAD CURBS SHALL BE PAINTED UTILIZING RED TRAFFIC PAINT.
   a. IF NO CURBS ARE PRESENT A SIX INCH (6") WIDE STRIPE PAINTED OF TRAFFIC RED PAINT SHALL BE PAINTED ON THE DRIVING SURFACE TO SHOW THE BOUNDARIES OF THE LANE.
   b. THE WORDS "NO PARKING FIRE LANE" SHALL APPEAR IN THREE INCH (3") WHITE LETTERS. THE LETTERING WILL BE ALTERNATIVELY SPACED AT 12 FOOT INTERVALS ON THE RED BORDER MARKINGS ALONG BOTH SIDES OF THE FIRE LANES.
   c. WHEN REQUIRED, SIGNAGE INDICATING "FIRE LANE NO PARKING" SHALL BE SPACED AT A MAXIMUM OF 75 FEET APART, ALONG THE LENGTH OF THE FIRE LANE. SIGNS SHALL COMPLY WITH THE INTERNATIONAL FIRE CODE, 2019 APPENDIX D FIRE D103.6.
2. ALL DESIGNATED FIRE LANES SHALL BE MAINTAINED AND KEPT IN A STATE OF GOOD REPAIR AT ALL TIMES BY THE OWNER OR PERSON IN CONTROL OF THE PREMISES.



7 FIRE LANE STRIPING DETAIL

SCALE: NONE



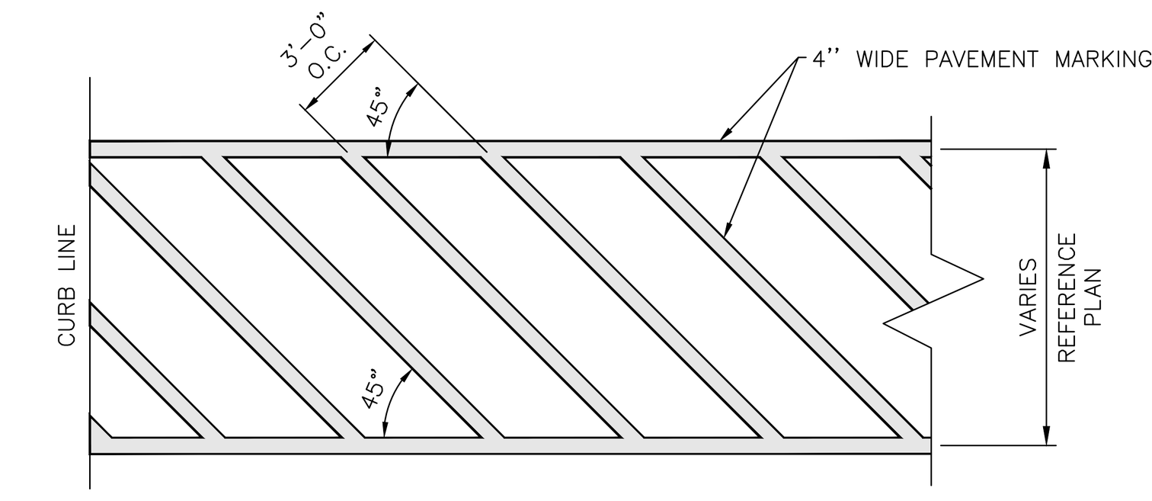
A **SECTION DETAIL**
1"=1'-0"

NOTES:

1. CONTRACTOR TO HAND RUB ALL EXPOSED PERIMETER EDGES WITH A LIGHT BROOM FINISH.
2. THE CONCRETE TOPPING TO BE FINE AGGREGATE 4,000 PSI MIX WITH WORKABLE SLUMP.
3. CONTRACTOR TO PROVIDE AN ENGINEER APPROVED BONDING AGENT.

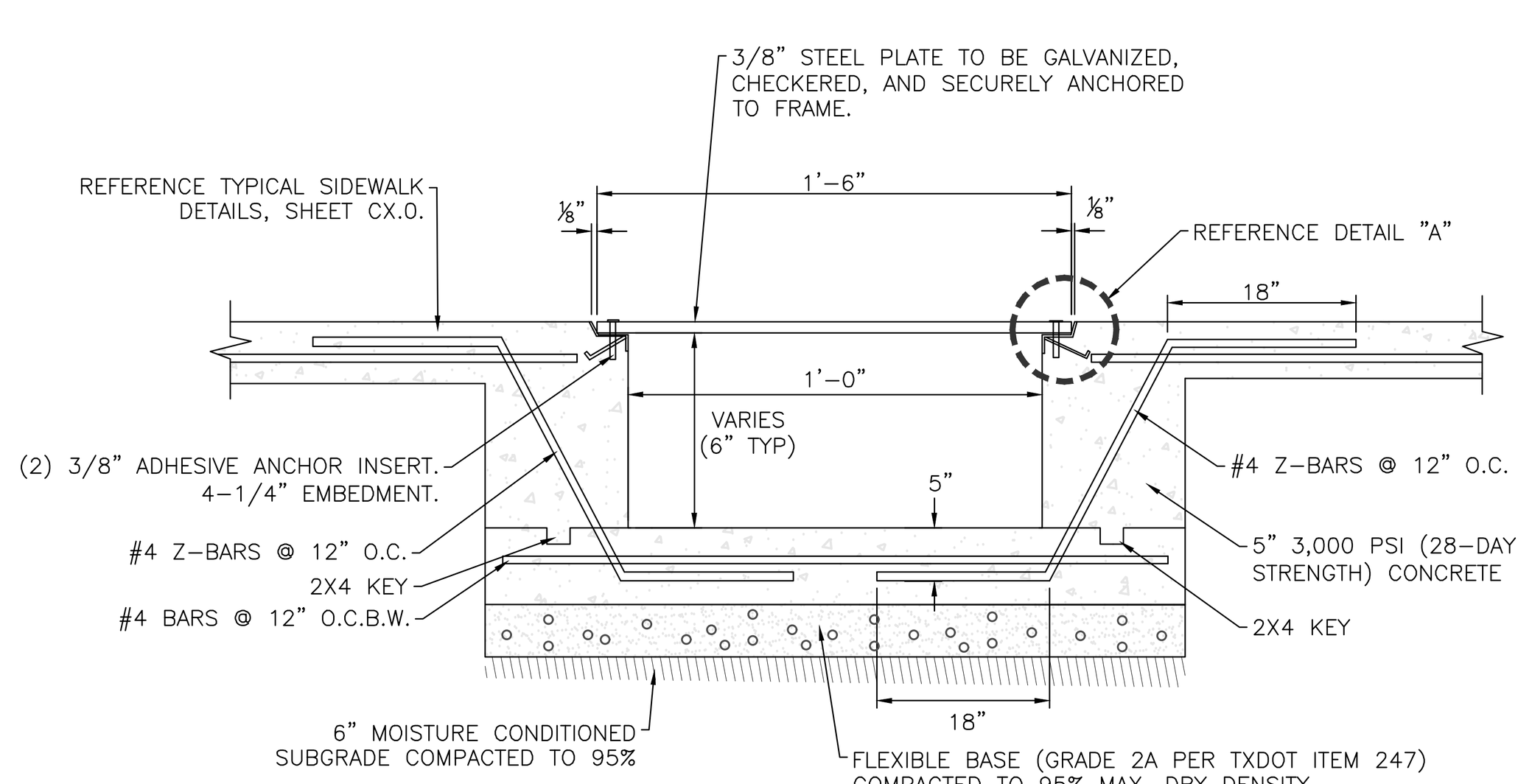
8 CONCRETE TOPPING SLAB DETAIL

SCALE: NONE

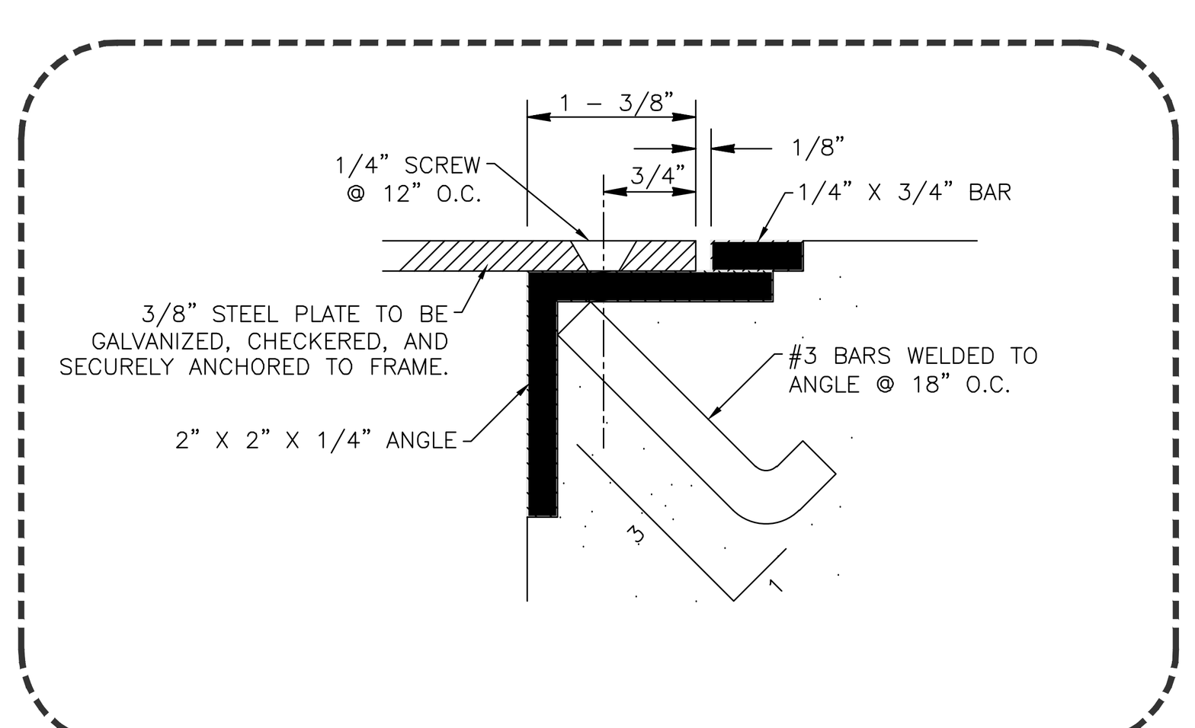


9 PAVEMENT ISLAND STRIPING DETAIL

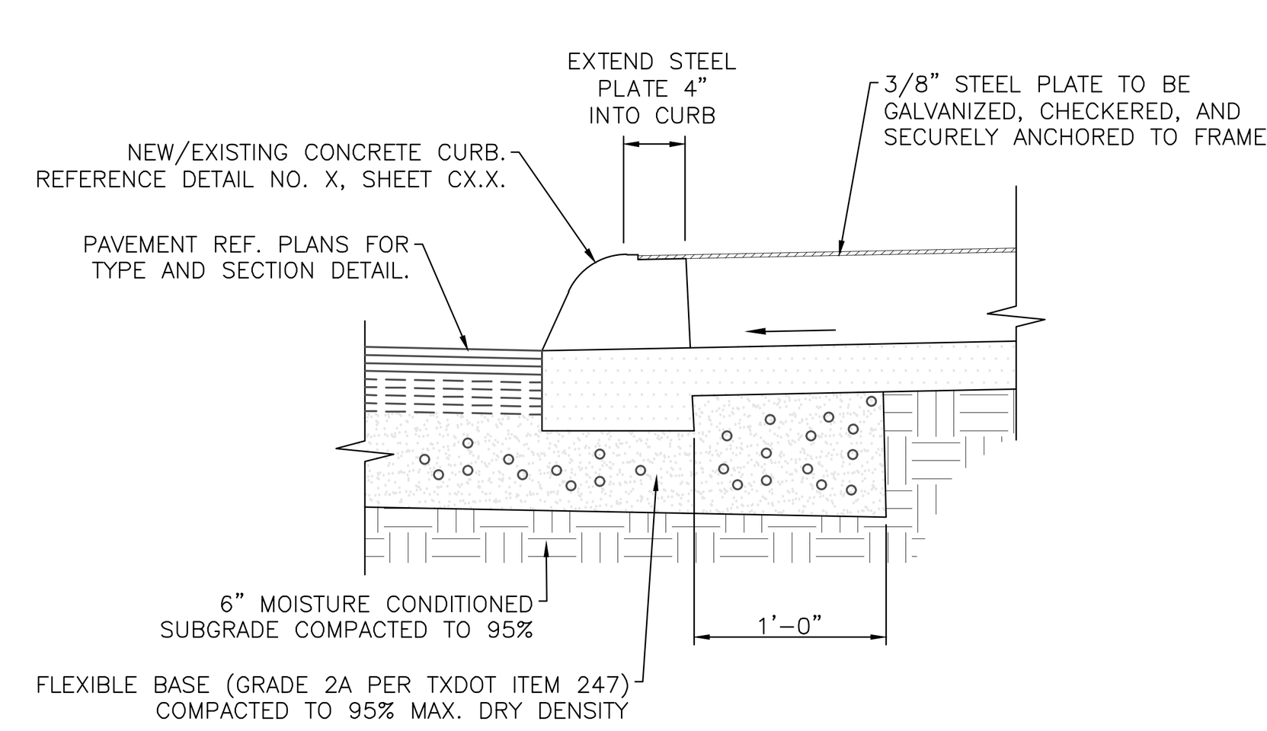
SCALE: NONE



PROFILE VIEW



DETAIL "A"



SECTION VIEW

NOTES:

1. FOLLOW GENERAL NOTES FOR SIDEWALKS UNLESS OTHERWISE NOTED ON DETAIL.
2. REFERENCE GRADING PLAN FOR PROPOSED SPOT ELEVATIONS.
3. ALL CONCRETE TO BE 3,000 PSI (28-DAY STRENGTH)

10 SIDEWALK DRAIN WITH COVER DETAIL

SCALE: NONE

NO.	DATE	REVISIONS DESCRIPTION	BY

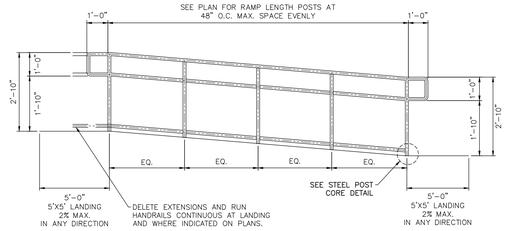
PROJ. # | DGN. BY | DWN. BY | CHKD. BY | DATE

STATE OF TEXAS
SEAN S. SMITH
113308
REGISTERED PROFESSIONAL ENGINEER
12/20/24

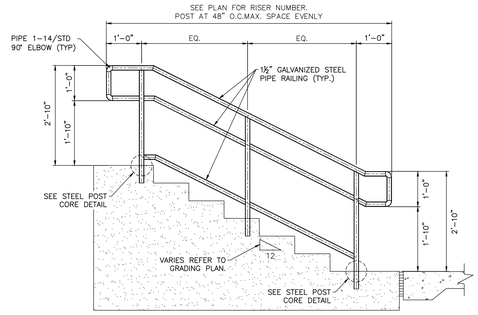
Moy Tarin Ramirez Engineers, LLC
· Engineers · Surveyors · Planners
TBPELS: ENGINEERING F-5297 / SURVEYING F-10131500
12770 CIMARRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249
TEL: (210) 698-5051
FAX: (210) 698-5085

COMAL ISD
SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT
CIVIL DETAILS

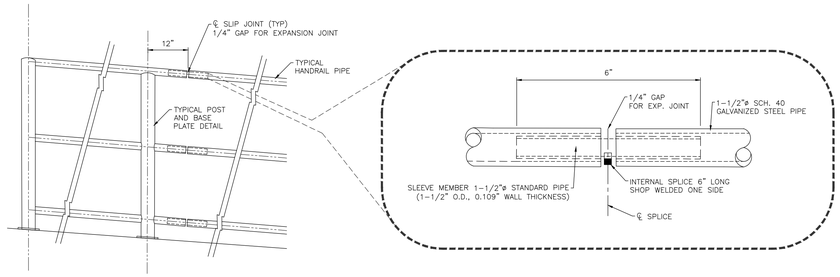
SHEET
C5.0



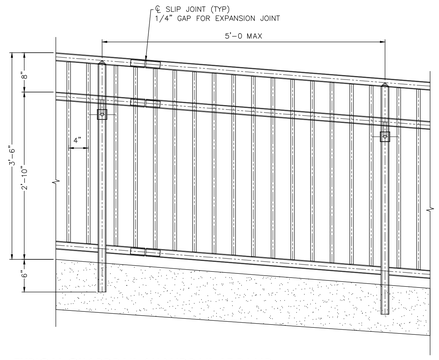
A **TYPICAL HANDRAIL AT RAMP**
SCALE: NONE



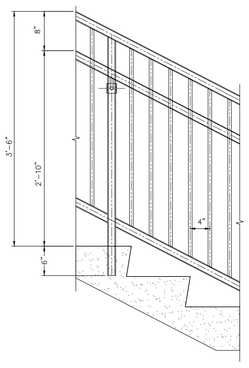
D **TYPICAL HANDRAIL AT STAIRS**
SCALE: NONE



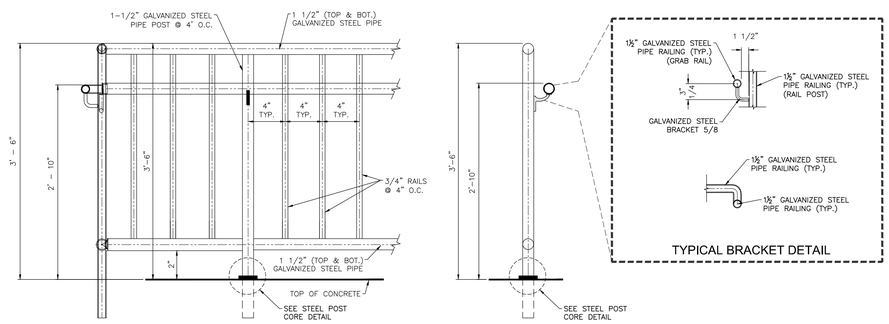
F **TYPICAL SLIP JOINT DETAILS**
SCALE: NONE



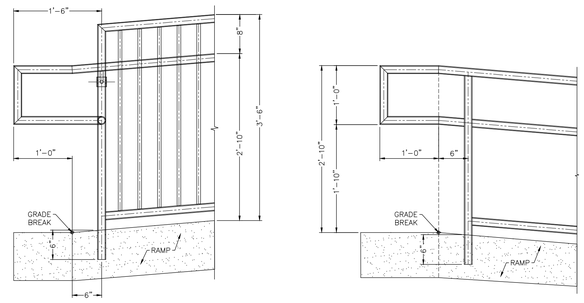
B **TYPICAL GUARDRAIL / HANDRAIL AT RAMP**
SCALE: NONE



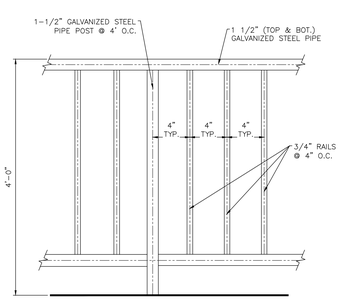
E **TYPICAL GUARDRAIL / HANDRAIL AT STAIRS**
SCALE: NONE



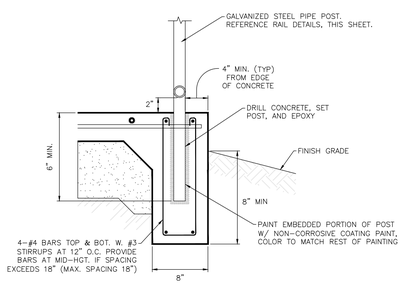
G **TYPICAL GUARDRAIL / HANDRAIL DETAIL**
SCALE: NONE



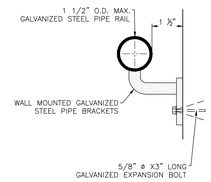
C **TYPICAL GUARDRAIL EXTENSIONS AT RAMP TOP AND BOTTOM**
SCALE: NONE



H **TYPICAL GUARDRAIL DETAIL - 2 PIPE**
SCALE: NONE



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



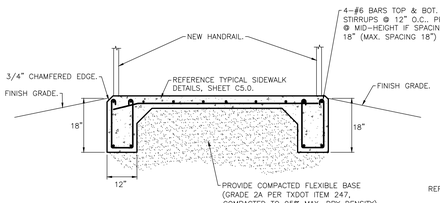
J **HANDRAIL ADJACENT TO BUILDING**
SCALE: NONE

GENERAL NOTES:

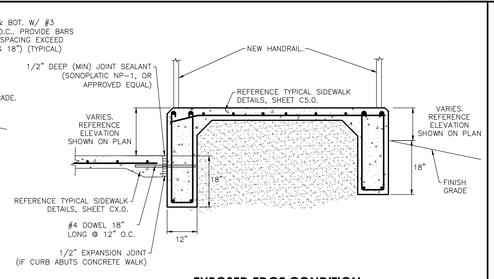
1. HANDRAIL CONSTRUCTION 1-1/2" GALVANIZED STEEL PIPE (TYP).
2. ALL STEEL PIPE TO BE HOTDIP-GALVANIZED AFTER FABRICATION.
3. NO ON-SITE WELDING WILL BE ALLOWED.
4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND GALVANIZATION.
5. PROVIDE HANDRAIL/GUARDRAIL PIPE SLIP JOINTS @ 30' MAX. SPACING AND ACROSS CONCRETE EXPANSION JOINTS TO ALLOW FOR APPROPRIATE MOVEMENT. SLIP JOINTS TO BE PER TXDOT STANDARDS.
6. HEAT UP THE RAILING CORNERS, BEAT THE SHARP EDGES, AND GRIND SMOOTH. ALL EXPOSED STEEL EDGES SHALL BE SMOOTH.
7. FOLLOW GENERAL NOTES FOR SIDEWALKS UNLESS OTHERWISE NOTED ON DETAIL.
8. REFERENCE GRADING PLAN FOR PROPOSED SPOT ELEVATIONS AND DEPTH OF RISERS.
9. IF 2 OR MORE RISERS, PROVIDE ADJACENT HANDRAILS. EXTEND HANDRAILS 1' BEYOND LIMITS OF RISERS AS SHOWN ON PLAN. SEE HANDRAIL EXTENSION DETAIL, THIS SHEET.
10. PAINT ALL RAILING COMPONENTS AS PER OWNER/ARCHITECT'S DIRECTION.

1 TYPICAL RAIL AT RAMP AND CONCRETE STEPS WITH SLIP JOINT DETAIL

SCALE: NONE



ADJACENT AT GRADE CONDITION



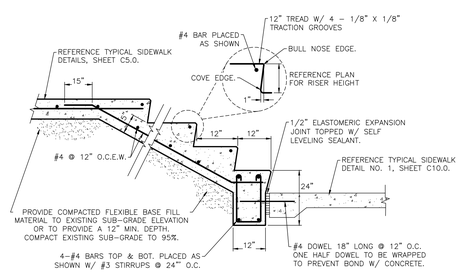
EXPOSED EDGE CONDITION

NOTES:

1. FOLLOW GENERAL NOTES FOR SIDEWALKS UNLESS OTHERWISE NOTED ON DETAIL.
2. REFERENCE GRADING PLAN FOR PROPOSED SPOT ELEVATIONS.
3. REFERENCE GRADING PLAN FOR NUMBER AND DEPTH OF RISERS OR RAMP LENGTHS, IF APPLICABLE.
4. PROVIDE ADJACENT RAILING ON BOTH SIDES AT RISER AND/OR RAMP AREAS. REFERENCE RAIL DETAILS AND GRADING PLAN FOR RAIL TYPE AND LOCATION.
5. ALL CONCRETE TO BE 3,000 PSI (28-DAY STRENGTH).

2 TYPICAL RAMP SECTION DETAILS

SCALE: NONE

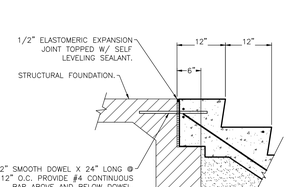


NOTES:

1. FOLLOW GENERAL NOTES FOR SIDEWALKS UNLESS OTHERWISE NOTED ON DETAIL.
2. REFERENCE GRADING PLAN FOR PROPOSED SPOT ELEVATIONS.
3. REFERENCE GRADING PLAN FOR NUMBER AND DEPTH OF RISERS OR RAMP LENGTHS, IF APPLICABLE.
4. PROVIDE ADJACENT RAILING ON BOTH SIDES AT RISERS AND/OR RAMP AREAS. REFERENCE RAIL DETAILS AND GRADING PLAN FOR RAIL TYPE AND LOCATION.
5. ALL CONCRETE TO BE 3,000 PSI (28-DAY STRENGTH).

3 TYPICAL CONCRETE RISER DETAILS

SCALE: NONE



USE WHEN STAIR ARE ADJACENT TO STRUCTURAL FOUNDATION

REVISIONS

NO.	DESCRIPTION	DATE	BY

PROJ. # | DSN. BY | DWN. BY | CHKD. BY | DATE

STATE OF TEXAS
SEAN S. SMITH
113308
REGISTERED
PROFESSIONAL ENGINEER
12/20/24

MIR
Moy Tarin Ramirez Engineers, LLC
• Engineers
• Surveyors
• Planners
TBPELS: ENGINEERING F-5297 / SURVEYING F-10131500
12770 CIMARRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249
TEL: (210) 698-5051
FAX: (210) 698-5085

COMAL ISD
SMITHSON VALLEY MS - 2023 BUS CANOPY REPLACEMENT

CIVIL DETAILS

SHEET
C5.1

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

I Jeffrey Smith,
Print Name

Director of Construction and Planning,
Title - Owner/President/Other

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

have authorized Sean Smith, P.E.
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:

Applicant's Signature

3.31.2025
Date

THE STATE OF TEXAS §

County of COMAL §

BEFORE ME, the undersigned authority, on this day personally appeared JEFFREY B. SMITH 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 31st day of MARCH, 2025.

Amanda Dee Comstock
My Commission Expires
5/29/2028
Notary ID132494576

Amanda Dee Comstock
NOTARY PUBLIC

AMANDA DEE COMSTOCK
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 5/29/2028

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: CISD Smithson Valley MS and Hill Country Transportation

Regulated Entity Location: 6101 FM311, Spring Branch, TX 78070

Name of Customer: Comal ISD

Contact Person: Jeffrey Smith Phone: (830) 221-2101

Customer Reference Number (if issued):CN 600249825

Regulated Entity Reference Number (if issued):RN 101251981

Austin Regional Office (3373)

☐ Hays ☐ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde

☒ Comal ☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to:

☐ Austin Regional Office

☒ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office

☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	*Size*	*Fee Due*
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	1 Each	$ 500
Extension of Time	Each	$

Signature: _____ Date: 3/21/25

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

Project	*Cost per Linear Foot*	*Minimum Fee-Maximum Fee*
Sewage Collection Systems	$0.50	$650 - $6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

TCEQ Core Data Form

TCEQ Use Only

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

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal (*Core Data Form should be submitted with the renewal form*) ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 600249825		RN 101251981

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*) *If new Customer, enter previous Customer below:*

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (*if applicable*)

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☐ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:

City		State		ZIP		ZIP + 4	

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

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

SECTION III: Regulated Entity Information

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

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

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

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

CISD SMITHSON VALLEY MIDDLE SCHOOL AND HILL COUNTRY TRANSPORTATION

23. Street Address of the Regulated Entity: *(No PO Boxes)*	6101 FM 311							
	City	SpringBranch	**State**	TX	**ZIP**	78070	**ZIP + 4**	
24. County	Comal							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:					
26. Nearest City			**State**	**Nearest ZIP Code**	
San Antonio			TX	78260	
27. Latitude (N) In Decimal:	29.821344		**28. Longitude (W) In Decimal:**	98.348669	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	49	16.84	98	20	55.21

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? *(Do not repeat the SIC or NAICS description.)*

Elementary School

34. Mailing Address:	**6101 FM 311**							
	City	**Spring Branch**	**State**	**TX**	**ZIP**	**78070**	**ZIP + 4**	
35. E-Mail Address:	**jeffrey.smith@comalisd.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(830) 885-1200		**( ) -**

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

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

SECTION IV: Preparer Information

40. Name:	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 *(In Print):*	Sean Smith, P.E.	**Phone:**	(210) 698- **5051**
Signature:		**Date:**	3/21/25