

### **ADDENDUM 1**

SUBJECT: SAPD Academy Track Pavement, (ID No.: 23-04058), Date of Issue: Friday, August 1,

2025 | Scheduled to Close: Tuesday, September 2, 2025

FROM: Jaime E. Contreras, Procurement Manager

<u>DATE</u>: August 27, 2025

# THIS NOTICE SHALL SERVE AS ADDENDUM NO. 1 – TO THE ABOVE REFERENCED INVITATION FOR BIDS

This addendum is separated into sections for convenience; however, all Respondents, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth one time any place in this addendum. These documents shall be attached to and become part of the Contract Documents for this project. The Respondent shall be required to acknowledge the receipt of this addendum.

- 1. The following changes and/or additions to the Contract Documents, via this addendum, shall apply to submittals made for and to the execution of the various parts of the work affected thereby.
- 2. Careful note of the addendum shall be taken by all interested parties and all trades affected shall be fully advised in their performance of the work involved.
- 3. This Addendum is hereby made part of the project requirements and contract documents for the above reference project. Ensure to acknowledge this Addendum in Civcast when downloading this Addendum. Acknowledgement of this Addendum is a requirement in order to submit bid in Civcast. This addendum consists of the items and their associated attachments as listed below:

### THE ABOVE-MENTIONED INVITATION FOR BIDS IS HEREBY AMENDED AS FOLLOWS:

### GENERAL INFORMATION

- 1. Reference Attachment: 0) Addendum No. 1 SAPD Academy Track Pavement 8.22.25
- 2. Reference Attachment: 1) Table of Contents Addendum No. 1 8.22.25
- 3. Reference Attachment: 2) GSSP Addendum No. 1 8.22.25

### **ADMINISTRATIVE CHANGES TO SOLICATION DOCUMENTS**

- 1. Invitation for Bids Deadline for Questions Date
  - a. Current: Tuesday, August 19, 2025
  - b. Revised: Tuesday, September 2, 2025
- 2. Invitation for Bids Bid Opening Date
  - a. Current: Tuesday, September 2, 2025b. Revised: Tuesday, September 16, 2025

# QUESTIONS SUBMITTED IN ACCORDANCE WITH THE 040 STANDARD INSTRUCTIONS TO BIDDER/RESPONDENT:

### QUESTIONS SUBMITTED ON CIVCAST

Question 1: Often when bid due dates immediately follow a holiday, subcontractor participation is decreased and the ability for a GC to ensure complete and most competitive bids is affected by limited time. In order to deliver best pricing, is there flexibility on extending the bid date? Even an extension to September 4th could significantly increase bid participation and provide GCs with enough time to ensure a complete and competitive

proposal.

Response: COSA:

The Bid Opening date has been extended to Tuesday, September 16, 2025, at 2:00 PM. Refer to the **Administrative Changes to Solicitation Documents** section. This date change is formally documented in this addendum, which includes all responses to bidder questions. No separate addendum will be issued for the date extension.

Question 2: Details 1, 3 and 4 on Sheet C12.0 reference the Terracon Geotechnical Report and

Supplemental Letters. Can you post the report and letters?

Response: Slay Architecture:

The Terracon Geotechnical Report and supporting letters have been posted.

Question 3: Sheet S2 on Construction plans detail the retaining wall at 50 lf. Is there a specific

pay item for it and if not, where would you like to see it?

Response: Slay Architecture:

Payment for the retaining wall will be made under Pay Item 506 – Concrete Retaining Walls (Combination Type) (20 < x < 50 CY). Please refer to the updated bid form

included with Addendum No. 1.

Question 4: Note 11 on C1.0 states the Contractor will be responsible for damaged utilities even if

they are not shown on the plans. If unforeseen utilities are damaged, will the Contractor

be given additional time to resolve the potential conflict and make the

repair/adjustment?

Response: Slay Architecture:

The Contractor remains responsible for repairing any damaged utilities at their expense, including unforeseen utilities not shown on the plans. If unforeseen utilities result in delays beyond the Contractor's control, the Contractor may request a time extension by submitting appropriate documentation for review and approval by the

Engineer.

**Finance Department, Procurement Division** 

Question 5: Note 1.3 on C1.1 states the Contractor shall secure all permits. Article II.2.5 of the

General Conditions states the City will reimburse Contractor for the necessary project related approvals, fees and required permits. Please confirm by securing all permits per

Note 1.3, this also means the Contractor will be reimbursed for this cost.

Response: The Contractor is responsible for securing all permits required for construction, including

coordination with all applicable agencies.

The City will pay the outstanding permit fees currently due (Fence, Retaining Wall, and Sitework Permits totaling \$13,424) directly via the project escrow account.

Any additional permit costs that may arise during the course of the project (e.g., trade or child permits) shall be paid by the Contractor as required to maintain project progress. These costs will be eligible for reimbursement by the City, in accordance with Article II.2.5 of the General Conditions.

Note 1.3 on Sheet C1.1 will be revised to reflect this clarification.

Revised Drawing Note 1.3 (C1.1)

Permits – Contractor shall secure all permits required for construction and shall notify all respective governmental or utility agencies affected by construction. The City will pay the outstanding permit fees currently due (Fence, Retaining Wall, and Sitework Permits) directly. The Contractor shall pay for any additional required permits (e.g., trade or child permits) and may request reimbursement for those costs in accordance with the General Conditions.

Any additional permit costs that may arise during the course of the project (e.g., trade or child permits) shall be paid by the Contractor as required to maintain project progress. These costs will be eligible for reimbursement by the City, in accordance with Article II.2.5 of the General Conditions.

Note 1.3 on Sheet C1.1 will be revised to reflect this clarification.

Question 6: Will the Contractor be allowed to put a trailer on site? If so, can you provide a potential

location for this?

Response: Slay Architecture:

Yes, but the location will be determined at the Preconstruction Conference with the

successful bidder.

Question 7: Is materials testing to be covered by the Contractor?

Response: COSA/ Slay Architecture:

No, the City will hire a 3rd party Lab.

Materials testing for quality assurance will be provided by the City. The Contractor is responsible for any quality control testing required to ensure compliance with the

specifications.

Question 8: Can you provide an existing paving section of the existing various paved areas?

Response: Slay Architecture:

Existing paving section information will not be provided as part of the construction documents. If available, existing as-built drawings may be issued under a future addendum for reference only and shall not be considered part of the contract

documents. The Contractor is responsible for field-verifying all existing paving conditions as necessary to complete the work. Consult Geotech Report for the existing conditions.

Question 9: In reviewing the various paving sections on Sheets C12.0 - C12.2, can you provide the required distance items like 6" Lime Treated Subgrade, 8" CTB and 12" Flex Base

should exend past the flush curb at the shoulders?

Response: Slay Architecture:

Use the flush curb as the tie-in/termination for the pavement section. The 6" limetreated subgrade, 4" ATB and 12" Flex Base do not extend past the curb at the shoulders - each layer stops at the back of curb.

Question 10: Regarding the items extending past the back of the curb, do the current quantities on the bid form include the quantity needed to extend beyond the back of curb?

Response: Slay Architecture:

Quantities for 6" LTS, 4" ATB, 12" FB, and 2" HMAC do not include any extension beyond the back of curb. The curb is the tie-in/termination for the section, so no material is required past the curb. Any grading beyond the curb to match existing is incidental to the work.

Question 11: Can the question deadline date be extended to a couple of days past the date we receive the geotechnical report/information? This way, if there are questions about the report, we still have some time to ask them.

Response: COSA/Slay Architecture:

The Deadline For Questions period has been extended. Refer to **Administrative Changes to Solicitation Documents** section. Contractors should submit all inquiries prior to the posted deadline to allow time for responses and posting of final addendum.

- Question 12: Can you provide a drawing that shows the exact limits of the phasing indicated on the bid form (maybe add station numbers)? It is important for us to be able to compare our takeoff by the phases shown on the bid form to be able to compare our takeoff to the Engineer's quantities. This will also be helpful to have in the field for measuring quantities and billing purposes.
- Response: Phasing limits for each roadway terminate at the ends of the radius returns at the intersecting street. For example, if a road has a 25' radius at the edge of pavement of the intersecting road.
- Question 13: Can you provide elaboration on the extent of the required repairs for the existing concrete surface on plan page C6.0? Although we can see site conditions based on the walk, it would be helpful to have a percentage of repair suggested or sf/sy quantity provided by the owner/engineer, in order to provide the most level bidding field for all GCs and our Subs.
- Response: For bidding, assume repairs to 10% of the concrete pad surface area. The bid form includes this as a square-yard (SY) quantity. Repairs may include full-depth panel replacement where structurally failed, partial-depth spall repairs, joint/crack sealing, and localized grinding as needed to restore surface and drainage. Final repair locations will be field-verified with the Owner at pre-con, and payment will be based on measured SY completed (adjusted by change order if actual differs from the 10% allowance).

Question 14: This project bid date conflicts with another City of San Antonio bid for the same date and time (Cassiano Park). It would be advantageous to the City to move one bid date or the other to a later time, in order to receive the most number of bids from the contracting community.

Response: COSA:

See response to question #1 for additional details.

Question 15: Will bid items for both Lime and Cement Material (tons) be added to the bid form? Response: SlayArchitecture:

Lime treatment is included under Item 108.1 – Lime Treated Subgrade (6") and is paid per SY, including all lime material. The 8" cement treatment has been removed and replaced with 4" Asphalt Treatment under Item 205.1, paid per SY complete in place. No separate bid item for cement material will be added.

Question 16: Since this isn't a typical COSA roadway project, can this project be converted to a lump sum bid instead of unit price bid? This would simplify things dramatically from a takeoff perspective, bidding standpoint as well as measurement and payment standpoint once the project is under construction.

Response: Slay Architecture:

This project will remain a unit price bid as advertised. COSA requires unit pricing to ensure consistency with the standard specifications and to facilitate accurate measurement, payment, and potential change orders. A lump sum bid format will not be considered for this solicitation.

Bids must comply with unit pricing.

Question 17: Can you provide the haul route that will be required to use from each phase to transport the millings to the location shown on Sheet C4.0?

Response: Slay Architecture:

Haul routes will vary by phase due to the site being an active police training driving track. Final routes will be determined at the pre-construction meeting with the Owner and may be revised as needed during construction with Owner approval to keep sections of the track operational.

Question 18: Please confirm if the contractor is required to include in the base bid the cost for five (5) stop-and-start events of up to two weeks each, regardless of whether the SAPD Training Academy Supervisor ultimately exercises the stop.

Response: Slay Architecture:

Yes, the contractor is required to include in the base bid the cost for five (5) stop-andstart events of up to two weeks each, regardless of whether the SAPD Training Academy Supervisor ultimately exercises the stop.

Question 19: What will be the required method for tying the new pavement into the existing pavement, and can you please provide the construction detail for this tie-in?

Response: Yes, please see details on sheet C12.3.

Question 20: Where should the contractor include the cost for line items that are not mentioned in the bid form?

Response: Any costs for work or materials not specifically listed as separate bid items shall be considered incidental and included in the base bid for the applicable pay item(s). Addendum No. 1 provides additional bid items to cover certain scopes of work not

previously included on the bid form. No further bid items will be added unless specifically directed by a future addendum.

### QUESTIONS SUBMITTED AT SITE-VISIT

N/A

### REVISIONS TO CONSULTANT'S DOCUMENTS (SPECIFICATIONS, PLANS, ETC.)

Consultant's revisions listed below will be issued as an attachment to this addendum.

### REVISIONS SUBMITTED TO BID FORM

See Changes to CivCast Bid Form document attached herein.

### REVISIONS SUBMITTED TO PLANS

- **Item No. 4:** The following sheets are added to the construction documents:
  - C13.4 Repair of Concrete Pavement
  - C13.5 Repair of Concrete Pavement
  - C13.6 Delineator Detail
- Item No. 5: Remove the following sheets and replace them with the attached revised sheet:
  - C0.0 Cover Sheet
  - C1.1 Additional General Notes
  - C5.1 Parking Site Plan
  - C5.2 Parking Details
  - C6.0 Paving Plan
  - C7.0 Existing Drainage Conditions
  - C7.1 Proposed Drainage Conditions
  - C8.0 Overall Grading
  - C8.1 Grading Plan NWQ
  - C9.0 Detention Pond
  - C9.1 Detention Pond Outfall Detail
  - C9.2 Detention Pond Sections
  - C11.0 Conduit Sleeves and MBGF Plan
  - C11.2 Striping Plan
  - C12.0 Cross Sections
  - C12.1 Cross Sections
  - C12.2 Cross Sections
  - C12.3 Pavement Details

### REVISIONS SUBMITTED TO SPECIFICATIONS

1. Attachment 0) Slay Engineering Addendum No.1 August 22, 2025, Item No. 1 & 2:

**Item No. 1:** Remove and Replace "1) Table of Contents" with the attached "1) Table of Contents". The revised Table of Contents replaces item "201 – Cement Treated Base" with item "206 – Asphalt Treated Base"

**Item No. 2:** Remove and Replace "2) Governing specifications, special specifications, special provisions, and supplemental specifications (GSSP)" with the attached "2)Governing specifications, special specifications, special provisions, and supplemental specifications (GSSP)". The revised GSSP replaces item "201 – Cement Treated Base" with item "206 – Asphalt Treated Base"

SIGNED AND SEALED BY CONSULTANT (Engineer/Architect of Record). By signing and sealing this addendum, the Engineer/Architect of Record acknowledges that the sign/seal is only for changes/clarifications to the items associated with the Engineer's/Architect's work referenced in this addendum.

MICHAEL M. SLAY

44379

GOISTER

WILL Hay 8/22/25

Jaime C. Contreras

Jซ์ime E. Contreras Procurement Manager

Procurement Division, Finance Department

# **END OF ADDENDUM 1**

# SPECIFICATIONS FOR SAN ANTONIO POLICE DEPARTMENT TRAINING ACADEMY PAVEMENT IMPROVEMENTS

### **TABLE OF CONTENTS**

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104 - Street Excavation	3 PAGES
107 – Embankment	5 PAGES
108 – Lime Treated Subgrade	6 PAGES
200 – Flexible Base	6 PAGES
202 – Prime Coat	3 PAGES
203 – Tack Coat	1 PAGE
205 – Hot Mix Asphaltic Concrete Pavement	2 PAGES
206 – Asphalt Treated Base	9 PAGES
208 - Salvaging, Hauling, & Stockpiling	3 PAGES
Reclaimable Asphaltic Pavement	
210 – Rolling	4 PAGES
220 - Blading	1 PAGE
230 – Base And Pavement Replacement	4 PAGES
236 – Full Depth Reclamation	7 PAGES
300 – Concrete	15 PAGES
301 – Reinforcing Steel	7 PAGES
302 – Metal For Structures	2 PAGES
307 – Concrete Structures	27 PAGES
400 – Excavation, Trenching, And Backfilling	7 PAGES
401 – Reinforced Concrete Pipe	7 PAGES
403 – Storm Sewer Junction Boxes And Inlets	4 PAGES
500 - Concrete Curb, Gutter, And Concrete Curb	4 PAGES
And Gutter	
506 - Concrete Retaining Wall – Combination	2 PAGES
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Project #22-069 – July 2025 – Adendum No. 1 – 8/22/25	

# SPECIFICATIONS FOR SAN ANTONIO POLICE DEPARTMENT TRAINING ACADEMY PAVEMENT IMPROVEMENTS

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DMS-6200 – Filter Fabric	2 PAGES
618 – Conduit	3 PAGES
658 – Delineator and Object Marker Assemblies	2 PAGES

### CONSTRUCTION PLANS & GEOTECHNICAL REPORT

(Attached Separately)

### CITY OF SAN ANTONIO, TEXAS

### GOVERNING SPECIFICATIONS, SPECIAL SPECIFICATIONS, SPECIAL PROVISIONS, AND SUPPLEMENTAL SPECIFICATIONS

### FOR

### SAN ANTONIO POLICE DEPARTMENT TRAINING ACADEMY PAVEMENT **IMPROVEMENTS**

All Standard Specifications and Special Specifications applicable to this project are identified as follows:

CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE, 2008 AND SPECIAL PROVISIONS DATED MAY 2009, FEBRUARY 2010, JUNE 2010 and NOVEMBER 2013.

### **ITEM - DESCRIPTION**

- 100 Mobilization
- 104 Street Excavation
- 107 Embankment
- 108 Lime Treated Subgrade
- 200 Flex Base
- 202 Prime Coat
- 203 Tack Coat
- 205 Hot Mix Asphaltic Concrete Pavement
- 206 Asphalt Treated Base
- 208 Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement
- 210 Rolling
- 220 Blading
- 230 Base And Pavement Replacement
- 236 Full Depth Reclamation
- 300 Concrete
- 301 Reinforcing Steel
- 302 Metal For Structures
- 307 Concrete Structures
- 400 Excavation, Trenching, And Backfilling
- 401 Reinforced Concrete Pipe
- 403 Storm Sewer Junction Boxes And Inlets
- 500 Concrete Curb, Gutter, And Concrete Curb And Gutter
- 506 Concrete Retaining Wall Combination Type
- 507 Chain Link Wire Fence
- 509 Metal Beam Guard Rail
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- 523 Adjusting of Vehicular & Pedestrian Gates
- 526 Field Office
- 530 Barricades, Signs, and Traffic Handling

- 531 Signs
- 535 Hot Applied Thermoplastic Pavement Markings
- 540 Temporary Erosion, Sedimentation and Water Pollution Prevention and Control
- 550 Trench Excavation Safety Protection
- 600 Traffic Signal General Conditions
- 609 Programmable Signal Heads
- 615 Traffic Signal Controller Cabinet
- 618 Conduit
- 620 Electrical Conductors
- 622 Duct Cable
- 624 Ground Boxes
- 625 Zinc-Coated Steel Wire Strand
- 627 Treated Timber Poles
- 628 Electrical Service
- 633 Battery Backup System for Traffic Signal
- 636 Aluminum Signs
- 655 Controller Foundation and Pedestal Posts
- 656 Foundations For Traffic Control Devices

# TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES NOVEMBER 2024

### 361 – Repair of Concrete Pavement

432 – Stone Riprap

DMS-6200 - Filter Fabric

618 – Conduit

658 – Delineator and Object Marker Assemblies

### CITY OF SAN ANTONIO SPECIAL PROVISIONS FOR CONSTRUCTION

- 401 Reinforced Concrete Pipe
- 403 Storm Sewer Junction Boxes And Inlets
- 523 Adjusting of Vehicular & Pedestrian Gates
- 526 Field Office

### **SPECIAL DETAILS FOR CONSTRUCTION**

Metal Beam Guard Fence Standard Pavement Markings (Arrows) Standard Pavement Markings (Words) Pavement Markings For Accessible Parking

# All City of San Antonio Specifications & Construction Detail sheets are available on the City's Website at:

# SPECIFICATIONS FOR SAN ANTONIO POLICE DEPARTMENT TRAINING ACADEMY PAVEMENT IMPROVEMENTS

July 2025 - Adendum No. 1 - 8/22/25

https://www.sanantonio.gov/Portals/0/Files/CIMS/StandardSpecifications/CIMSConstructi onSpecifications062008.pdf



**SAN ANTONIO** 

123 Altgelt Ave. San Antonio, TX 78201 210.734.4388 Office **LAREDO**9901 McPherson, Ste. 104
Laredo, TX 78045
956.791.0405 Office

### ADDENDUM NO. 1

Project: SAPD Academy Track Pavement

Bexar, Texas

Engineer: Slay Engineering Co., Inc.

123 Altgelt Ave.

San Antonio, Texas 78201

Date: August 22, 2025

This addendum is hereby made a part of the construction documents to the same extent as though it were originally included therein. This addendum shall take precedence over the original construction documents where its provisions apply. Acknowledgement of Addendum must be submitted in your bid proposal.

ITEM NO.	DESCRIPTION
	REPLACE ORIGINAL PAGES WITH THE ATTACHED
No. 1	Remove and Replace "1) Table of Contents" with the attached "1) Table of Contents". The revised Table of Contents replaces item "201 – Cement Treated Base" with item "206 – Asphalt Treated Base"
No. 2	Remove and Replace "2) Governing specifications, special specifications, special provisions, and supplemental specifications (GSSP)" with the attached "2)Governing specifications, special specifications, special provisions, and supplemental specifications (GSSP)". The revised GSSP replaces item "201 – Cement Treated Base" with item "206 – Asphalt Treated Base"
No. 3	The Geotechnical Engineering Report and Memo letters are issued with this Addendum.
No. 4	The following sheets are added to the construction documents: C13.4 – Repair of Concrete Pavement C13.5 – Repair of Concrete Pavement C13.6 – Delineator Detail
No. 5	Remove the following sheets and replace them with the attached revised sheet:  C0.0 – Cover Sheet  C1.1 – Additional General Notes  C5.1 – Parking Site Plan  C5.2 – Parking Details  C6.0 – Paving Plan  C7.0 – Existing Drainage Conditions  C7.1 – Proposed Drainage Conditions  C8.0 – Overall Grading



SAN ANTONIO	LAREDO
123 Altgelt Ave.	9901 McPherson, Ste. 104
San Antonio, TX 78201	Laredo, TX 78045
210.734.4388 Office	956.791.0405 Office

C8.1 – Grading Plan - NWQ
C9.0 – Detention Pond
C9.1 – Detention Pond Outfall Detail
C9.2 – Detention Pond Sections
C11.0 – Conduit Sleeves and MBGF Plan
C11.2 – Striping Plan
C12.0 – Cross Sections
C12.1 – Cross Sections
C12.2 – Cross Sections
C12.3 – Pavement Details

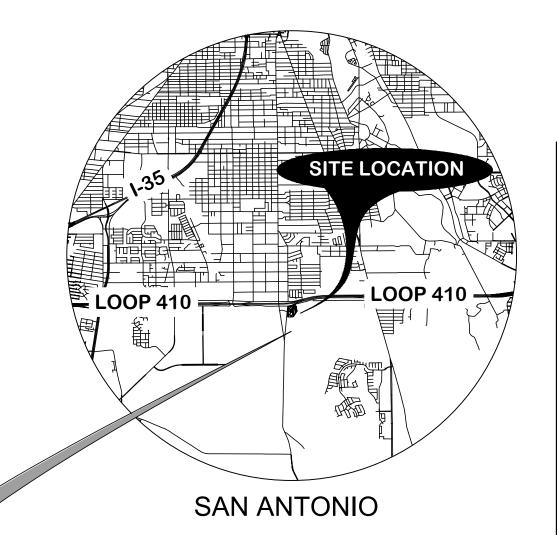
### END OF ADDENDUM NO. $\underline{\mathbf{1}}$

# CONSTRUCTION DOCUMENTS

FOR THE DEVELOPMENT OF

# SAPD ACADEMY TRACK PAVEMENT

SITUATED WITHIN THE COUNTY OF BEXAR, TEXAS OCTOBER 2024



**BEXAR** 

COUNTY

STATE

**TEXAS** 





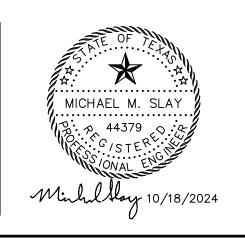
SAPD ACADEMY TRACK N.T.S.





# PREPARED BY S SLAY ENGINEERING CO., INC. CIVIL ENGINEERING - SURVEYING - CONSULTING

123 ALTGELT AVENUE
SAN ANTONIO, TEXAS 78201
TELEPHONE (210) 734-4388
SLAYENGINEERING.COM
TBPE FIRM REGISTRATION No. F1901 S.E.C. JOB No. 22-069



	Sheet List Table	
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C1.2	COSA EPIC NOTES	
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C4.0	PHASING PLAN	
C5.0	DIMENSIONAL PLAN	
C5.1	PARKING SITE PLAN	
C5.2	PARKING DETAILS	
C6.0	PAVING PLAN	
C7.0	EXISTING DRAINAGE CONDITIONS	$\dashv$
C7.0	PROPOSED DRAINAGE CONDITIONS	$\dashv$
C8.0	OVERALL GRADING	$\dashv$
C8.0 C8.1	GRADING PLAN - NWQ	$\dashv$
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# 1.0 CONTRACTOR REGULATIONS

- 1.1 SPECIFICATIONS ALL PHASES OF WORK UNDER THIS CONTRACT SHALL BE WITH STRICT ADHERENCE TO THE ACCOMPANYING SPECIFICATIONS AND THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION" PUBLISHED BY THE CITY OF SAN ANTONIO. WHERE DIFFERENCES OCCUR BETWEEN THESE TWO DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL DECISIONS OR JUDGMENTS ON INTERPRETATION OF THE SPECIFICATIONS AND/OR ON MATTERS NOT SPECIFICALLY COVERED BY THE ABOVE DOCUMENTS SHALL BE MADE BY THE ENGINEER.
- 1.2. CODE COMPLIANCE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO. BUILDING CODE AND REGULATIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PROVISIONS APPLICABLE TO THIS PROJECT.
- 1.3 PERMITS CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED FOR CONSTRUCTION AND SHALL NOTIFY ALL RESPECTIVE GOVERNMENTAL OR UTILITY AGENCIES AFFECTED BY CONSTRUCTION. THE CITY WILL PAY THE OUTSTANDING PERMIT FEES CURRENTLY DUE (FENCE, RETAINING WALL, AND SITEWORK PERMITS) DIRECTLY. THE CONTRACTOR SHALL PAY FOR ANY ADDITIONAL REQUIRED PERMITS (E.G., TRADE OR CHILD PERMITS) AND MAY REQUEST REIMBURSEMENT FOR THOSE COSTS IN ACCORDANCE WITH THE GENERAL CONDITIONS.
- ANY ADDITIONAL PERMIT COSTS THAT MAY ARISE DURING THE COURSE OF THE PROJECT (E.G., TRADE OR CHILD PERMITS) SHALL BE PAID BY THE CONTRACTOR AS REQUIRED TO MAINTAIN PROJECT PROGRESS. THESE COSTS WILL BE ELIGIBLE FOR REIMBURSEMENT BY THE CITY, IN ACCORDANCE WITH ARTICLE II.2.5 OF THE GENERAL CONDITIONS.

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- 1.4 CONTRACTOR RESPONSIBILITY CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 1.5 WASTE MATERIAL ALL WASTE MATERIAL, EXCEPT MILLINGS, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE RIGHT—OF—WAY AND TO PRIVATE PROPERTY WHERE THE CONTRACTOR HAS THE CONSENT OF THE OWNERS. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING NATURAL DRAINAGE COURSES.
- 1.6 INCIDENTAL WORK NO EXTRA PAY SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- 1.7 SOIL CONDITIONS NO ADDITIONAL PAYMENT SHALL BE MADE FOR ROCK, SAND, GRAVEL, OR OTHER UNSTABLE CONDITIONS ENCOUNTERED IN ANY WORK IMPLIED BY THESE DRAWINGS. THE CONTRACTOR MAY REVIEW THE GEOTECHNICAL REPORT FOR THE PROJECT IN ORDER TO OBTAIN KNOWLEDGE OF THE SUBSURFACE CONDITIONS AS LOCATED IN THE SPECIFICATIONS.
- 1.8 EXISTING FEATURES PAVEMENTS, CURB, WALK, CONCRETE STRUCTURES THAT ARE WITHIN THE NEW CONSTRUCTION LIMITS THAT ARE TO BE REPLACED SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST. DEMOLITION OF EXISTING FEATURES AS NECESSARY FOR THE CONSTRUCTION OF NEW WORK SHALL NOT BE CONSIDERED AS EXTRA. DEMOLITION WORK AS REQUIRED SHALL BE SUBSIDIARY TO THE NEW CONSTRUCTION WORK.
- 1.9. CONSTRUCTION STAKING ALL CONSTRUCTION STAKING AND BENCHMARK TRANSFERS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

# 2.0. UTILITIES

- 2.1 ABOVE GROUND UTILITIES EXISTING ABOVE GROUND UTILITIES HAVE BEEN PLOTTED BY DIRECT FIELD INVESTIGATION.
- 2.2 RESPONSIBILITY FOR UTILITIES CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE GROUND OR UNDERGROUND UTILITIES, INCLUDING THOSE NOT SHOWN ON DRAWINGS. DEAD UTILITY LINES SHALL BE SUITABLY CAPPED AT THE LIMITS OF THE PROJECT. ANY EXISTING SITE IMPROVEMENT OR UTILITY REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE CITY OR RESPECTIVE UTILITY AT THE CONTRACTOR'S EXPENSE.
- 2.3 ABANDONED UTILITIES ALL ABANDONED UTILITIES WITHIN THE LIMITS OF

- THE PROJECT SHALL BE REMOVED AND DISPOSED OF LEGALLY BY THE CONTRACTOR.
- 2.4 GAS VALVES DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CITY PUBLIC SERVICE MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- 2.5 UTILITY LOCATES CONTRACTOR SHALL CALL FOR UTILITY LOCATES BEFORE BEGINNING ANY EXCAVATION: 1-800-344-8377 OR 811.

# 3.0 CONSTRUCTION MATERIALS

- 3.1 CONCRETE CONCRETE SHALL BE CLASS "A" ACCORDING TO ITEM 300 OF THE CITY'S STANDARD SPECIFICATIONS WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE SPECIFIED ON PLANS.
- 3.2 REINFORCING STEEL REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL HAVE DEFORMATIONS CONFORMING TO ASTM A-615 AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A-615.....GRADE 40.....#3 BARS AND DOWELS A-185.....WELDED WIRE FABRIC A-615.....GRADE 60.....ALL OTHER REINFORCING

- ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- 3.3 REBAR SIZES #3 BARS SHALL NOT BE USED ON THIS PROJECT. WALK SHALL BE REINFORCED WITH #4 BARS @ 18" OCBW. DRIVEWAYS SHALL BE REINFORCED WITH #4 BARS @ 12" OCBW, AS A MINIMUM.
- 3.4 WIRE WELDED FABRIC WELDED WIRE FABRIC SHALL NOT BE USED ON THIS PROJECT.
- 3.5 HMAC THE HOT MIX ASPHALTIC CONCRETE SURFACE COURSE SHALL BE PLANT MIXED, HOT LAID TYPE D, MEETING THE MASTER SPECIFICATIONS REQUIREMENTS OF 2014 TXDOT STANDARD SPECIFICATIONS ITEM 341, COMPACTED TO BETWEEN 92 AND 97 PERCENT OF THE MAXIMUM THEORETICAL DENSITY AS MEASURED BY ASTM D 2041.
- 3.6 FLEXIBLE BASE "FLEXIBLE BASE" SHALL BE TYPE A, GRADE 2, ACCORDING TO TXDOT ITEM 247, COMPACTED TO 95% MODIFIED DENSITY ACCORDING TO ASTM D-1557 (MODIFIED PROCTOR) AND TESTED BY ASTM D-2922 (NUCLEAR METHOD). EXISTING BASE MAY BE REUSED IF MATERIAL MEETS SPECIFICATION REQUIREMENTS.
- 3.7 ASPHALT TREATED BASE ASPHALT TREATED BASE SHALL MEET THE REQUIREMENTS OF 2014 TXDOT STANDARD SPECIFICATIONS (ITEM 344, GRADE 1 OR 2). THE MATERIAL SHALL BE COMPACTED TO AT LEAST 96 PERCENT OF THE MAXIMUM MOLDED GYRATORY DENSITY DETERMINED IN ACCORDANCE WITH TEX 126 E.
- 3.8 6" LIME TREATED SUBGRADE 6" LIME TREATED SUBGRADE SHALL BE MODIFIED WITH HYDRATED LIME IN ACCORDANCE WITH 2014 TXDOT STANDARD SPECIFICATIONS (ITEM 2.60), AT 24 POUNDS PER HYDRATED LIME PER SQUARE YARD FOR A 6-INCH TREATMENT DEPTH. HOWEVER, THE ACTUAL PERCENTAGE SHALL BE DETERMINED BY LABORATORY TESTS ON SAMPLES OF CLAY SUBGRADE PRIOR TO CONSTRUCTION. 6" LIME TREATED SUBGRADE SHALL BE COMPACTED TO 95% DENSITY ACCORDING TO ASTM D-698 AT A MOISTURE CONTENT RANGING FROM OPTIMUM AND 4 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT, AND TESTED BY ASTM D-2922 (NUCLEAR METHOD).
- 3.9 PRIME COAT "PRIME COAT" SHALL BE MC-30 APPLIED AT A RATE OF 0.2 GAL. /S.Y. MAXIMUM.
- 3.10 TACK COAT "TACK COAT" SHALL BE RC-250 APPLIED AT A RATE OF 0.1 GAL./S.Y. MAXIMUM.

# 4.0 GRADING

- 4.1. MATCH EXISTING "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.
- 4.2 ELEVATION VERIFICATION CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. TEMPORARY BENCHMARKS MIGHT BE MOVED OR DAMAGED DURING CONSTRUCTION; THEREFORE, TWO OR MORE TEMPORARY BENCHMARKS SHALL BE BACK SIGHTED TO VERIFY HEIGHT—OF—INSTRUMENT. THE START OF CONSTRUCTION BY THE CONTRACTOR SIGNIFIES THAT EXISTING SITE CONDITIONS HAVE BEEN VERIFIED AND ACCEPTED. ALL CONSTRUCTION STAKING AND BENCHMARK TRANSFERS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

4.3 ELEVATION TOLERANCES - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE GRADING ELEVATIONS ACCORDING TO THE FOLLOWING TOLERANCES:

PAD ELEVATIONS ± 0.10 FOOT PAVEMENT ± 0.05 FOOT CURBS, GUTTERS, AND ALL DRAINAGE FACILITIES ± 0.02 FOOT LANDSCAPING ± 0.10 FOOT

IF ANY ABOVE MENTIONED ELEVATION IS FOUND TO BE OUT OF LEVEL BEYOND THE STATED TOLERANCE AFTER CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER. ALL

EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

- **4.4 LIFTS -** ALL STRUCTURAL FILL (FILL THAT PROVIDES LOAD BEARING SUPPORT) SHALL BE PLACED ON PREPARED SURFACES IN LIFTS NOT TO EXCEED EIGHT INCHES (8") LOOSE MEASURE, WITH COMPACTED THICKNESS NOT TO EXCEED SIX INCHES (6").
- **4.5 COMPACTION -** ALL SELECT STRUCTURAL FILL SHALL BE MOISTURE CONDITIONED TO BETWEEN MINUS TWO (-2) AND PLUS FOUR (+3) PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT, AND THEN COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D 1557.
- 4.6 PLASTICITY IF SOILS ARE TO BE IMPORTED FOR GRADE ADJUSTMENTS, THE SOILS SHALL NOT HAVE A PLASTICITY INDEX GREATER THAN 20 PERCENT.
- 4.7 SOIL QUALITY THE SELECT FILL SOILS SHALL BE FREE OF ORGANIC MATERIAL AND DEBRIS AND SHALL NOT CONTAIN STONES LARGER THAN THREE INCHES (3") IN DIAMETER OR WIDTH.

# 5.0 CONSTRUCTION ITEMS

- 5.1 **DIMENSIONAL TIES -** DIMENSIONAL TIES TO CURB LINES ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
- 5.2 TYPE A BEDDING TYPE A BEDDING SHALL BE USED FOR RIGID PIPE, I.E., CLAY, CONCRETE, DUCTILE IRON, CAST IRON AND PRESTRESSED CYLINDER PIPE UNDER STABLE TRENCH CONDITIONS.
- 5.3 EXISTING FEATURES DRIVEWAYS, WALKS, RETAINING WALLS AND ASPHALT PAVEMENT OR ANY OTHER EXISTING FEATURE SHALL BE DEMOLISHED AND REMOVED WHERE NECESSARY FOR NEW CONSTRUCTION. VERIFY DEMOLITION WITH ENGINEER PRIOR TO BEGINNING DEMOLITION.

# 6.0 ALL CONTACTS

6.1 ENGINEER - CONTRACTOR SHALL CONTACT THE ENGINEER AT 210-734-4388 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK FOR WHICH THE SITE VISIT IS DESIRED. COORDINATE ALL MATERIAL TESTING WITH THE OWNERS HIRED TESTING COMPANY.

# 7.0 MISCELLANEOUS

- 7.1 CONSTRUCTION SIGNAGE BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 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. THE SIGNS SHALL BE COORDINATED WITH SEQUENCE OF CONSTRUCTION AND DETOUR PLAN. DURING THE PROGRESS OF THE WORK THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC. TRAFFIC SIGNS SHALL BE REMOVED AND REPLACED IN KIND WITH NEW POST AND SIGNS.
- 7.2 PAVEMENT MARKINGS STRIPING SHALL BE USED TO INDICATE PARKING SPACES, NO-PARKING AREAS, AND CROSSWALKS. PARKING SPACES SHALL BE INDICATED BY FOUR INCH (4") PAINTED WHITE STRIPES, NINE FEET (9') ON CENTER. NO-PARKING AREAS SHALL BE NOTED BY 4 INCH WHITE LINES WITH TWENTY-FOUR INCHES (24") SEPARATION, PAINTED DIAGONALLY ACROSS THE AREA. STOP LIMIT LINES SHALL BE 2 FEET WIDE, WHITE STRIPES, PERPENDICULAR TO TRAFFIC LANES.

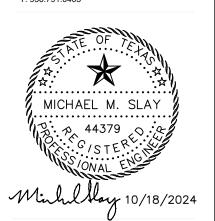
# 8.0 CONSTRUCTION YARD

8.1 CONSTRUCTION YARD - CONTRACTOR SHALL VERIFY WITH OWNER ABOUT USE OF SITE AS CONSTRUCTION YARD. SITE MUST BE RETURNED TO PRE—CONSTRUCTION CONDITIONS OR BETTER.



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LAREDO
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Laredo, Texas 78045



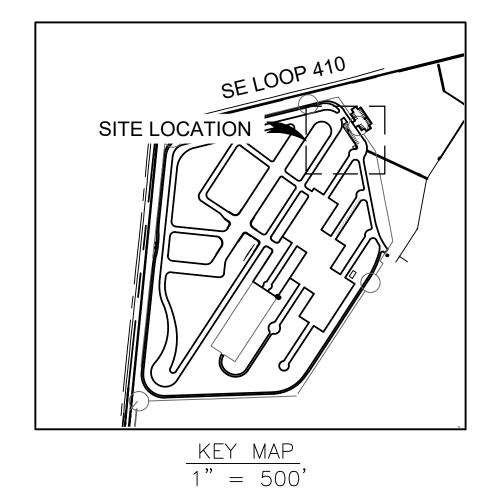
# STRUCTION DOCUMENTS CADEMY TRACK PAVEMENT OP 410, SAN ANTONIO, TEXAS 78214

C1

Project NO.: 22028

100% SAP 12200 S

Revisions: "Addenda No. 1" - 8/22/25



# LEGEND

	EXISTING OVERHEAD ELECTRIC LIN
	PROPOSED CONCRETE PROPOSED ASPHALT PAVEMENT  EXISTING UNDERGROUND GAS LINE PROXIMITY USE CAUTION
HCP	HANDICAP PARKING

EXISTING SIGN

# NOTES:

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE POSTED ON ALL ACCESSIBLE PARKING SPACES MARKING THE RESERVED SPOT.

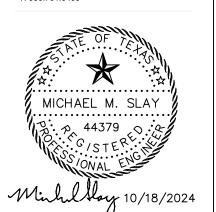
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- 2. (A) HEAD-IN PARKING PLACES SHALL BE 9' X 18' TO 10' X 20' WITH 4" WIDE WHITE LINE.
- 3. REFERENCE ACADEMY "DRIVING TRACK IMPROVEMENTS & PARKING GEOTECHNICAL ENGINEERING REPORT" PREPARED BY TERRACON (TERRACON PROJECT NO. 90235085) DATED OCTOBER 5, 2023 AND THE SUPPLEMENTAL ATTACHMENT FOR ALL GEOTECHNICAL DETAILS.

PARKING SUMMARY	
PROPOSED PARKING SPACES (NOT INCLUDING ADA SPACES)	25
REQUIRED ACCESSIBLE PARKING SPACES	1
PROPOSED ACCESSIBLE PARKING SPACES	1
TOTAL PARKING SPACES (INCLUDING ADA SPACES)	26



123 Altgelt Avenue San Antonio, Texas 78201 T: 210.736.3009 **LAREDO**9901 McPherson Avenue, #104
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T: 956.791.0405

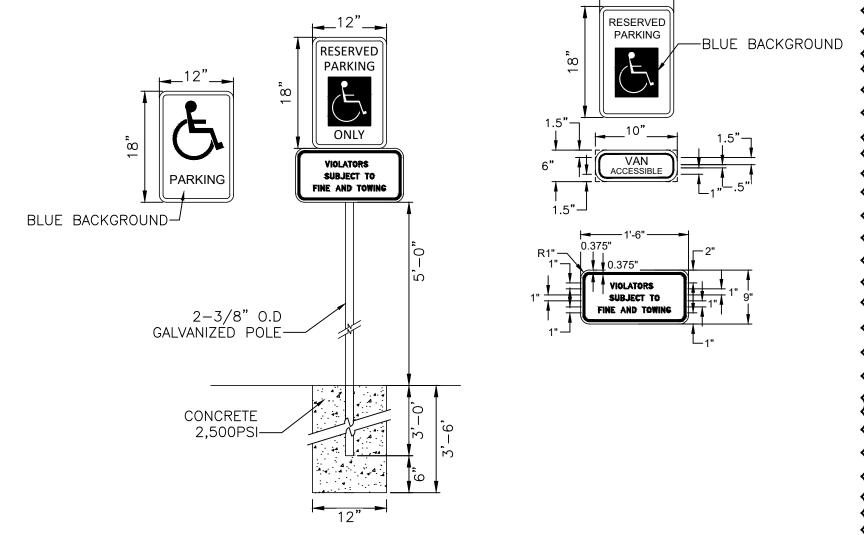


VEMENT **DOCUMENTS** 100% CONSTRUCTION

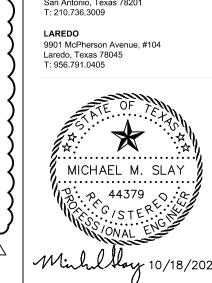
Project NO.: 22028 Date:8/22/2025 Revisions: "Addenda No. 1" - 8/22/25

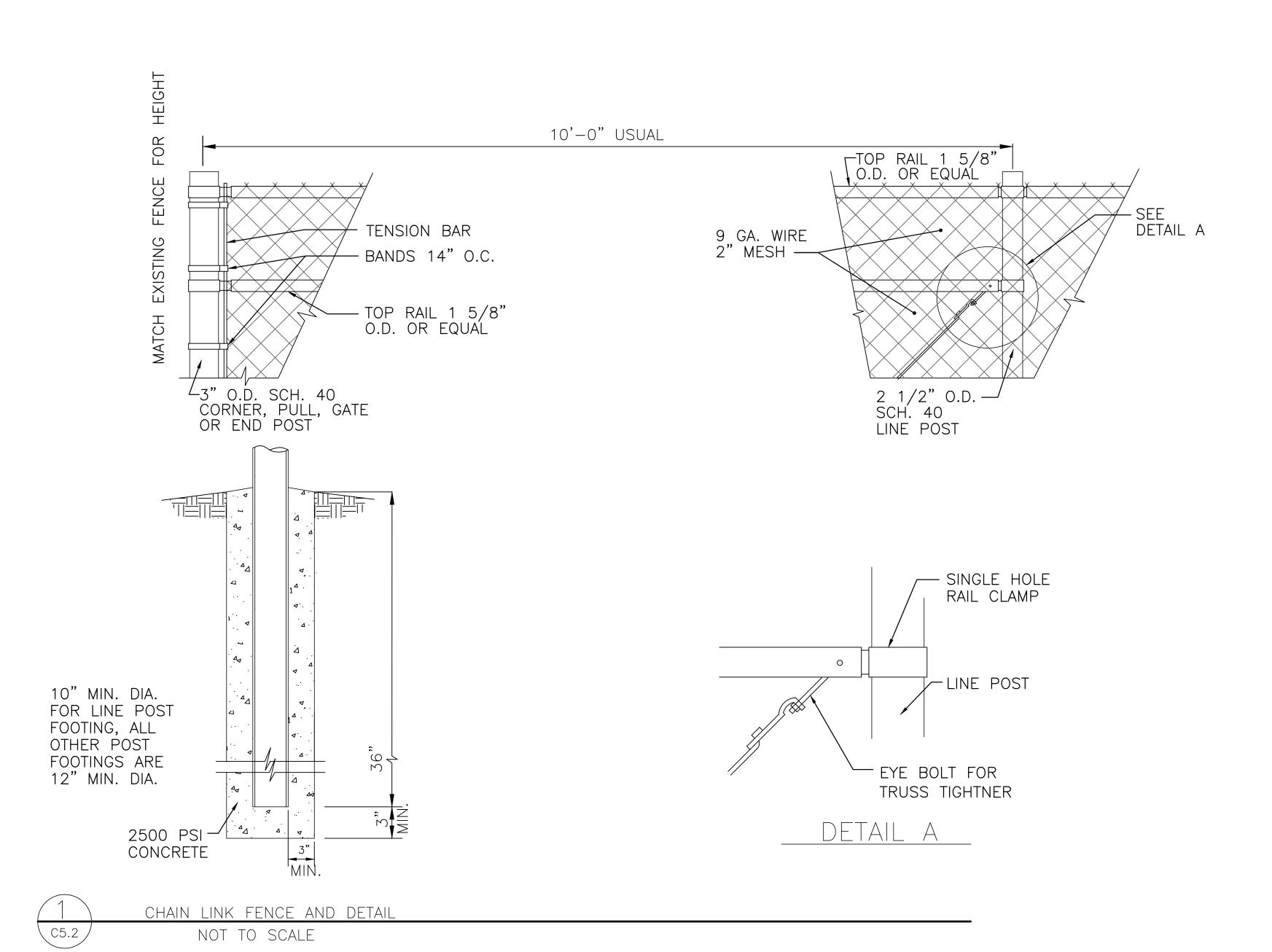
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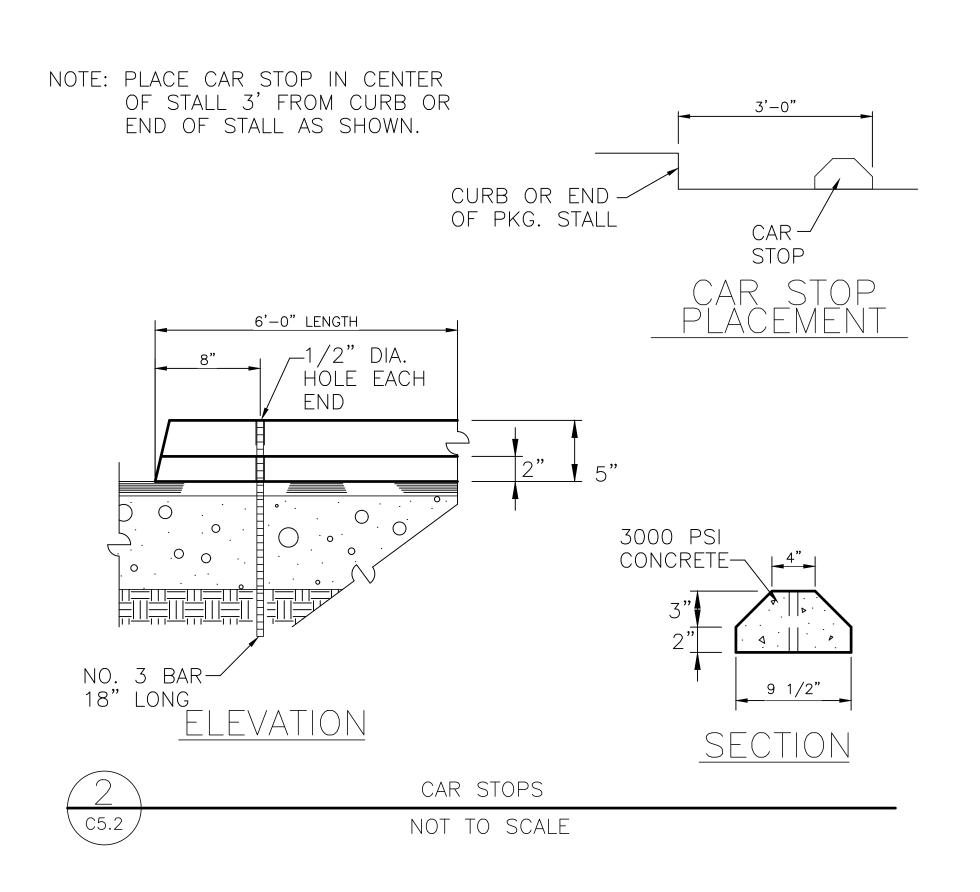
- 1. ADA ACCESS SIGNS NEED TO BE POSTED AT PROPERLY DESIGNATED ACCESSIBLE PARKING SPACES.
- 2. VAN-ACCESSIBLE PARKING SPACES TO HAVE ADDITIONAL 'SIGN' BELOW THE ACCESSIBILITY SYMBOL TO SPECIFICALLY MARK THE VAN-ACCESSIBLE AREA.
- 3. SIGN AND MOUNTING HEIGHT TO BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT.
- 4. SIGNS SHOULD BE PLACED AT SUCH A HEIGHT (AT LEAST 60 INCHES ABOVE SURFACE) THAT THEY DO NOT GET OBSCURED BY ANY PARKED VEHICLES OR OTHER OBSTRUCTIONS. ADA HANDICAP PARKING SIGNS (COMMONLY KNOWN AS ACCESS SIGNS) POSTED MUST BE VISIBLE FROM THE DRIVERS' SEAT OF THE VEHICLE AND LOCATED RIGHT IN VIEW OF PARKING SPACES.



HANDICAP PARKING SIGN







VEMEN

ANTONIO,

410,

12200 SE.

**DOCUMENTS** 

100% CONSTRUCTION

Project NO.: 22028 Date: 8/22/2025

ADEMY

C5.2

Revisions: "Addenda No. 1" - 8/22/25

SE LOOP 410 ACC RD. (ASPHALT)

# GENERAL NOTES:

ASPHALT PAVEMENT (SEE

DETAIL 3 SHEET C12.0)

**PAVING PLAN** 

SCALE: 1" = 100'

- 1. PAVEMENT REPAIRS BASED ON <u>48,056</u> SY DETAIL 1 ON SHEET C12.0; <u>833</u> SY OF DETAIL 3 ON SHEET C12.0, AND <u>8606</u> SY OF DETAIL 4 OF SHEET C12.0. UNIT PRICE TO ADD OR DECREASE QUANTITY WILL BE AT THE UNIT PRICE BID.
- 2. SEE GRADING PLAN SHEETS C8.0—C8.4 FOR PROPOSED 2' CONCRETE SWALE.
- 3. SEE SHEET C12.0-C12.3 FOR TYPICAL PAVEMENT SECTIONS
- 4. CONTRACTOR SHALL TEMPORARILY RELOCATE SHADED SEATING TO GRASSED AREA DURING PHASE 2B.

# CONCRETE SKID PAD NOTES:

- 1. FULL-DEPTH CONCRETE PAVEMENT REPAIR (FDCPR), TXDOT ITEM 361: SAWCUT FULL DEPTH ALONG LIMITS SHOWN OR AS DIRECTED; REMOVE EXISTING SLAB; REPAIR BASE/SUBGRADE AS NEEDED; INSTALL LOAD-TRANSFER DOWELS AT TRANSVERSE JOINTS; PLACE HCC TO PLAN THICKNESS/STRENGTH; FINISH/TEXTURE TO MATCH EXISTING; SAW AND SEAL JOINTS; CURE AND OPEN TO TRAFFIC PER ITEM 361.
- 2. ESTIMATED REPAIR QUANTITY: ASSUME 10% OF TOTAL PAD AREA FOR BIDDING (PLAN QTY: 660 SY). ACTUAL REPAIR LIMITS WILL BE DETERMINED WITH THE OWNER AT THE PRE-CONSTRUCTION MEETING AND VERIFIED BY THE ENGINEER IN THE FIELD. PAYMENT: BY MEASURED SY UNDER ITEM 361. IF THE ACTUAL REPAIR QUANTITIES DIFFER FROM THE ESTIMATED QUANTITY, ADJUSTMENTS WILL BE MADE BY CHANGE ORDER USING THE ORIGINAL UNIT PRICING FROM THE AWARDED BID.
- 3. BASE/SUBGRADE REPAIRS: UNDERCUT/COMPACTION AND BASE REPLACEMENT AS NEEDED; ADDITIONAL BASE PROVIDED/PAYED UNDER THE APPLICABLE ITEM (E.G., ITEM 247) OR AS DIRECTED.
- 4. JOINTS & LOAD TRANSFER: MATCH EXISTING JOINT LAYOUT WHERE FEASIBLE. PROVIDE DOWEL LOAD TRANSFER AT NEW TRANSVERSE JOINTS AND DOWEL RETROFIT WHEN TYING INTO EXISTING PANELS, PER ITEM 361 DETAILS.
- 5. SURFACE & DRAINAGE: MATCH EXISTING PAD GRADES AND CROSS—SLOPE; ENSURE POSITIVE DRAINAGE AT ALL TIE—INS.

# **LEGEND**

4. 4. 4. 4.

PROPERTY LINE
ADJACENT PROPERTY LINE
EASEMENT LINE
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
EXISTING EDGE OF ASPHALT
EXISTING BARBED WIRE FENCE
EXISTING WOOD FENCE
EXISTING OVERHEAD ELECTRIC LINE
EXISTING FIRE HYDRANT
EXISTING LIGHT POLE

NEW PAVEMENT/COOL DOWN LOOP FULL DEPTH RECONSTRUCTION (DETAIL 4 SEE SHEET C12.0)

ASPHALT TRACK PAVEMENT REMOVE EXISTING PAVEMENT, INSTALL 4" ATB + 2" HMAC (DETAIL 1 SEE SHEET C12.0)

ASPHALT PAD PAVEMENT REMOVE EXISTING PAVEMENT, INSTALL 4" ATB + 2" HMAC (DETAIL 1 SEE SHEET C12.0)

ASPHALT PAD NEW PAVEMENT

ASPHALT PAD NEW PAVEMENT (DETAIL 4 SEE SHEET C12.0)

EXISTING CONCRETE SKID PAD

EXISTING CONCRETE SKID PAD MAINTENANCE (DETAIL 1 & 2 SEE SHEET C12.3)

NEW PARKING LOT ASPHALT PAVEMENT

(DETAIL 3 SEE SHEET C12.0)

PARKING LOT ASPHALT PAVEMENT REMOVE
EXISTING PAVEMENT, INSTALL 4" ATB + 2" HMAC
(DETAIL 1 SEE SHEET 12.0)
PROPOSED 2' CONCRETE SWALE

(SEE SHEET C12.3)

SECTION VIEW WITH REFERENCE SHEET NUMBER

C6.0

**DOCUMENTS** 

CONSTRUCTION

100%

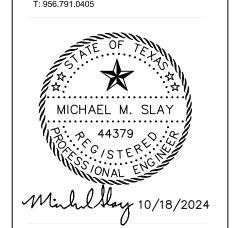
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PAVING PLAN

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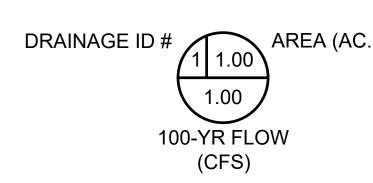


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# LEGEND:

—   —   1000   —   —	EXISTING MAJOR CONTOUR
- — — — 999 <i>-</i> — — —	EXISTING MINOR CONTOUR
←	FLOWPATH
	EXISTING DRAINAGE EASEMEN
	DRAINAGE AREA BOUNDARY



DRAINAGE A	AREA TABLE
AREA NUMBER	ACRES
1	81.08
2	14.36
3	27.83
4	41.43

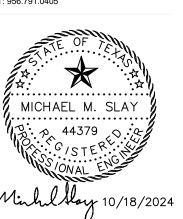
# HEC-HMS OUTPUT TABLES

	1-yr	
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)
Slay - DA - 1 Existing	0.126683	247.67
Slay - DA - 2 Existing	0.022439	17.36
Slay - DA - 3 Existing	0.043478	34.54
Slay - DA - 4 Existing	0.064736	43.92
	, <b>T</b> 143	
Hydrologic Element	25-yr Drainage Area (MI2)	Peak Discharge (CFS
Hydrologic Element Slay - DA - 1 Existing	<u> </u>	Peak Discharge (CFS 597.49
, 0	Drainage Area (MI2)	8 \
Slay - DA - 1 Existing	Drainage Area (MI2) 0.126683	597.49

	5-vr	
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS
Slay - DA - 1 Existing	0.126683	410.82
Slay - DA - 2 Existing	0.022439	30.28
Slay - DA - 3 Existing	0.043478	59.33
Slay - DA - 4 Existing	0.064736	73.56
	100	
Hydrologic Element	100-yr Drainage Area (MI2)	Peak Discharge (CFS
Hydrologic Element Slay - DA - 1 Existing		Peak Discharge (CFS 766.51
• 0	Drainage Area (MI2)	8 \
Slay - DA - 1 Existing	Drainage Area (MI2) 0.126683	766.51

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100% CONSTRUCTION DOCUMENTS

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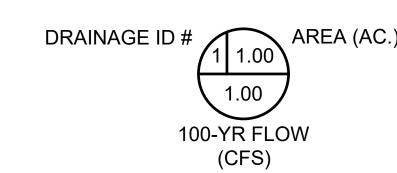
EXISTING DRAINAGE CONDITIONS

**EXISTING DRAINAGE CONDITIONS** 

SCALE: 1" = 200'



	PROPERTY LINE ADJACENT PROPERTY LINE
	ADUACENT TNOTENTE LINE
	EASEMENT LINE
1000	EXISTING MAJOR CONTOUR
— — — 999 — — —	EXISTING MINOR CONTOUR
	PROPOSED CURB
	FLOW LINE
	EXISTING DRAINAGE EASEME
	DRAINAGE AREA BOUNDARY



DRAINAGE A	AREA TABLE
AREA NUMBER	ACRES
1	81.08
2	14.36
3	27.83
4	41.43

# HEC-HMS OUTPUT TABLES

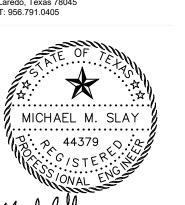
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (Cl
Slay - DA - 1 Proposed W/ Det	0.126683	247.95
Slay - DA - 2 Proposed W/ Det	0.022439	17.63
Slay - DA - 3 Proposed W/ Det	0.043478	35.02
Slay - DA - 4 Proposed W/ Det	0.064736	44.16
Slay - DA - 1 Proposed No Det	0.126683	247.95
Slay - DA - 2 Proposed No Det	0.022439	17.63
Slay - DA - 3 Proposed No Det	0.043478	35.02
Slay - DA - 4 Proposed No Det	0.064736	44.16
	R STO	-
		-
25-Y	R STO	RM
25-Y	R STO	RM Peak Discharge (CF
25-Y  Hydrologic Element  Slay - DA - 1 Proposed W/ Det	RSTO  Drainage Area (MI2)  0.126683	Peak Discharge (CF
25-Y  Hydrologic Element  Slay - DA - 1 Proposed W/ Det  Slay - DA - 2 Proposed W/ Det	R STO  Drainage Area (MI2)  0.126683  0.022439	Peak Discharge (CF 597.6 45.35
25-Y  Hydrologic Element  Slay - DA - 1 Proposed W/ Det  Slay - DA - 2 Proposed W/ Det  Slay - DA - 3 Proposed W/ Det	Prainage Area (MI2) 0.126683 0.022439 0.043478	Peak Discharge (CF 597.6 45.35 88.31
25-Y  Hydrologic Element  Slay - DA - 1 Proposed W/ Det  Slay - DA - 2 Proposed W/ Det  Slay - DA - 3 Proposed W/ Det	Prainage Area (MI2) 0.126683 0.022439 0.043478	Peak Discharge (CF 597.6 45.35 88.31
Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det Slay - DA - 4 Proposed W/ Det	RSTO  Drainage Area (MI2)  0.126683  0.022439  0.043478  0.064736	Peak Discharge (CF 597.6 45.35 88.31 107.38
Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det Slay - DA - 4 Proposed W/ Det Slay - DA - 1 Proposed No Det	Prainage Area (MI2) 0.126683 0.022439 0.043478 0.064736	Peak Discharge (CF 597.6 45.35 88.31 107.38 597.6

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS
Slay - DA - 1 Proposed W/ Det	0.126683	410.98
Slay - DA - 2 Proposed W/ Det	0.022439	30.48
Slay - DA - 3 Proposed W/ Det	0.043478	59.68
Slay - DA - 4 Proposed W/ Det	0.064736	73.7
Slay - DA - 1 Proposed No Det	0.126683	410.98
Slay - DA - 2 Proposed No Det	0.022439	30.48
Slay - DA - 3 Proposed No Det	0.043478	59.68
•		
Slay - DA - 4 Proposed No Det	YR STC	73.7 <b>)RM</b>
Slay - DA - 4 Proposed No Det		
100-	YR STC	)RM
Slay - DA - 4 Proposed No Det  100-  Hydrologic Element	YR STC Drainage Area (MI2)	Peak Discharge (CFS
Slay - DA - 4 Proposed No Det  100-  Hydrologic Element  Slay - DA - 1 Proposed W/ Det  Slay - DA - 2 Proposed W/ Det	YRSTC  Drainage Area (MI2)  0.126683	Peak Discharge (CFS
Slay - DA - 4 Proposed No Det  100-  Hydrologic Element  Slay - DA - 1 Proposed W/ Det	YR STC  Drainage Area (MI2)  0.126683  0.022439	Peak Discharge (CFS 766.61 58.18
Hydrologic Element Slay - DA - 2 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det	VR STC  Drainage Area (MI2)  0.126683  0.022439  0.043478	Peak Discharge (CFS 766.61 58.18 113.11
Hydrologic Element Slay - DA - 2 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det	VR STC  Drainage Area (MI2)  0.126683  0.022439  0.043478	Peak Discharge (CFS 766.61 58.18 113.11
Hydrologic Element Slay - DA - 4 Proposed No Det  Hydrologic Element Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 4 Proposed W/ Det Slay - DA - 4 Proposed W/ Det Slay - DA - 1 Proposed No Det Slay - DA - 2 Proposed No Det	VR STC  Drainage Area (MI2)  0.126683  0.022439  0.043478  0.064736	Peak Discharge (CFS 766.61 58.18 113.11 137.82
Hydrologic Element Slay - DA - 4 Proposed W/ Det Slay - DA - 1 Proposed W/ Det Slay - DA - 2 Proposed W/ Det Slay - DA - 3 Proposed W/ Det Slay - DA - 4 Proposed W/ Det	Prainage Area (MI2)  0.126683  0.022439  0.043478  0.064736	Peak Discharge (CFS 766.61 58.18 113.11 137.82 766.61



AN ANTONIO
3 Altgelt Avenue
an Antonio, Texas 78201
210.736.3009

AREDO



100% CONSTRUCTION DOCUMENTS
SAPD ACADEMY TRACK P
Construction of the second state of t

C7.1

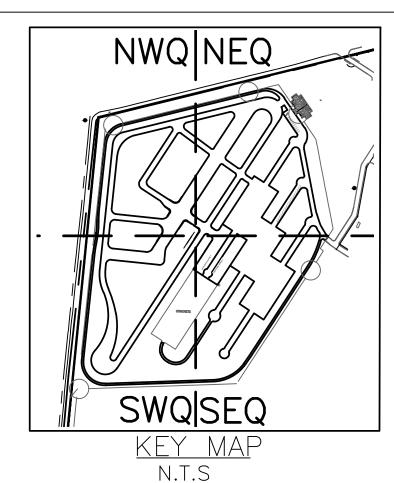
PROPOSED DRAINAGE CONDITIONS

SCALE: 1" = 200' 0 200 400 Feet

:1/2025 6:00:24 PM M:\2022\22-069 COSA Training Acad

PROPOSED DRAINAGE CONDITIONS

SCALE: 1" = 100' 0 100 200 Feet



# NOTES:

1. SEE SHEET C2.0 FOR EXISTING STORM INFRASTRUCTURE DETAILS.



**BENCHMARKS**:

- SURVEY CONTROL POINT "BH100"
  1/2" IRON ROD WITH CAP NORTHING: 13,663,689.06 EASTING: 2,128,794.78 ELEV: 609.23'
- SURVEY CONTROL POINT "BH102" MAG NAIL WITH WASHER NORTHING: 13,664,041.93 EASTING: 2,127,394.46 ELEV: 600.78'
- SURVEY CONTROL POINT "BH103"
  MAG NAIL WITH WASHER NORTHING: 13,662,380.92 EASTING: 2,127,237.64 ELEV: 602.12'

LEGEND - PROPERTY LINE ADJACENT PROPERTY LINE EASEMENT LINE EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR EXISTING EDGE OF ASPHALT EXISTING CHAINLINK FENCE EXISTING POWER POLE EXISTING GUY WIRE EXISTING WATER VALVE EXISTING WATER METER EXISTING GAS VALVE EXISTING SIGN EXISTING SPRINKLER VALVE EXISTING TREE EXISTING SPOT ELEVATION PROPOSED CURB BENCHMARK MATCH LINE X-X FLOW LINE ALTERNATE 1 PARKING

(SEE DETAIL C8.5)

Project NO.: 22028 Revisions: "Addenda No. 1" - 8/22/25

**DOCUMENTS** 

CONSTRUCTION

100%

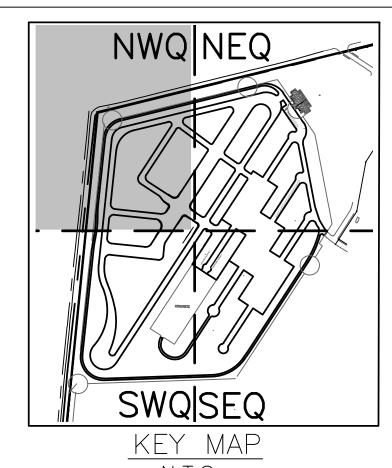
SAN ANTONIO 123 Altgelt Avenue San Antonio, Texas 78201 T: 210.736.3009

**LAREDO**9901 McPherson Avenue, #104
Laredo, Texas 78045
T: 956.791.0405

MICHAEL M. SLAY

OVERALL GRADING

EXISTING OVERHEAD ELECTRIC LINE EXISTING FIRE HYDRANT



# LEGEND

--- PROPERTY LINE ADJACENT PROPERTY LINE EASEMENT LINE EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR PROPOSED CONTOUR EXISTING EDGE OF ASPHALT EXISTING CHAINLINK FENCE EXISTING OVERHEAD ELECTRIC LINE EXISTING FIRE HYDRANT EXISTING POWER POLE EXISTING GUY WIRE EXISTING WATER VALVE EXISTING WATER METER EXISTING GAS VALVE

EXISTING SIGN

EXISTING TREE

PROPOSED CURB

EXISTING SPRINKLER VALVE

EXISTING SPOT ELEVATION

BENCHMARK MATCH LINE X-X EXISTING PROPOSED FLOW LINE

# **BENCHMARKS**:

SURVEY CONTROL POINT "BH102"
MAG NAIL WITH WASHER NORTHING: 13,664,041.93 EASTING: 2,127,394.46 ELEV: 600.78'



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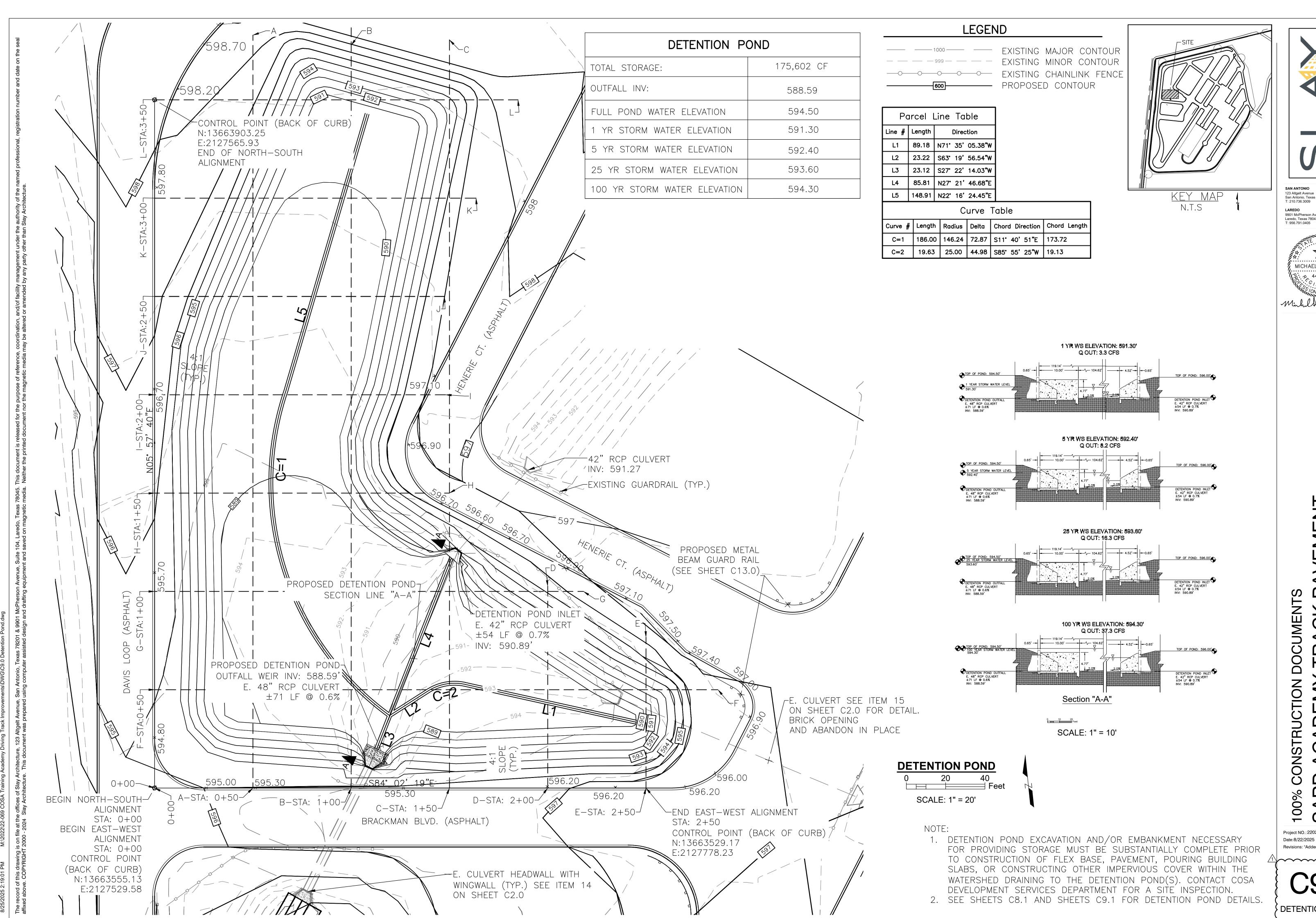
**DOCUMENTS** CONSTRUCTION 100%

Revisions: "Addenda No. 1" - 8/22/25

Project NO.: 22028 Date:8/22/2025

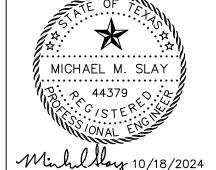
GRADING PLAN - NWQ

**GRADING PLAN - NWQ** SCALE: 1" = 40' 80 <u></u> Feet



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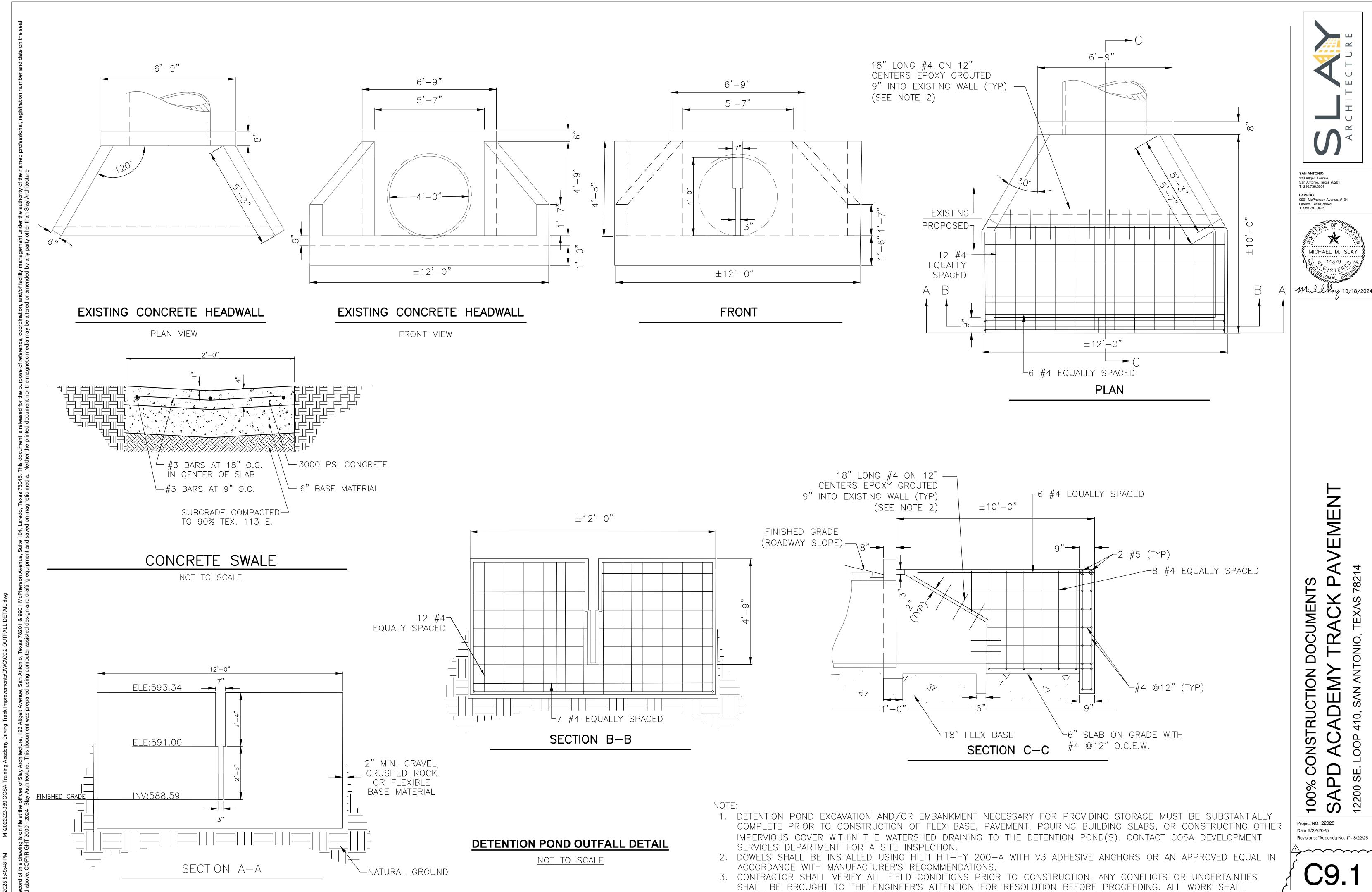


VEMENT

ONIO,

Project NO.: 22028 Revisions: "Addenda No. 1" - 8/22/25

DETENTION POND

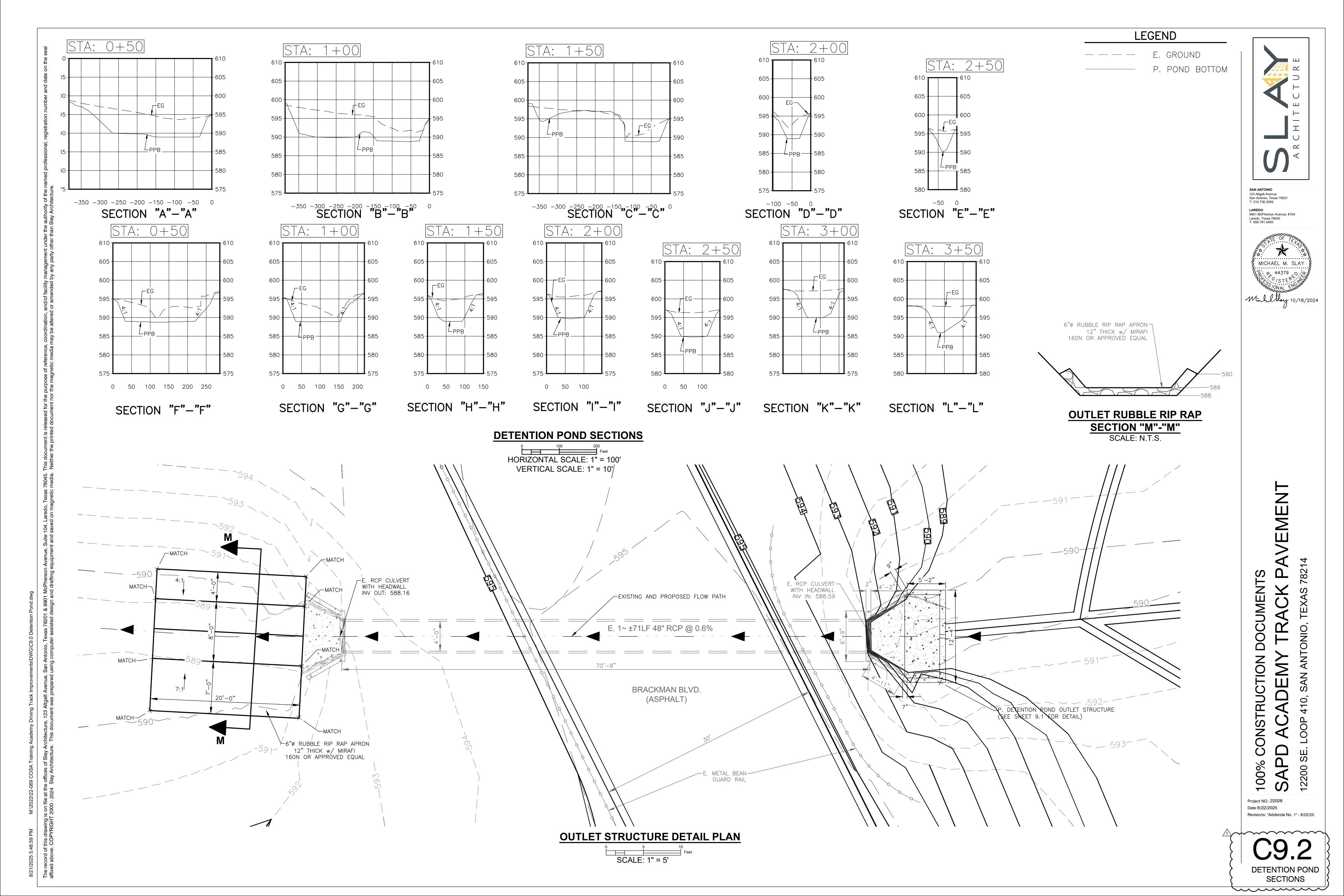


100% CONSTRUCTION E
SAPD ACADEMY
12200 SE. LOOP 410, SAN ANTO

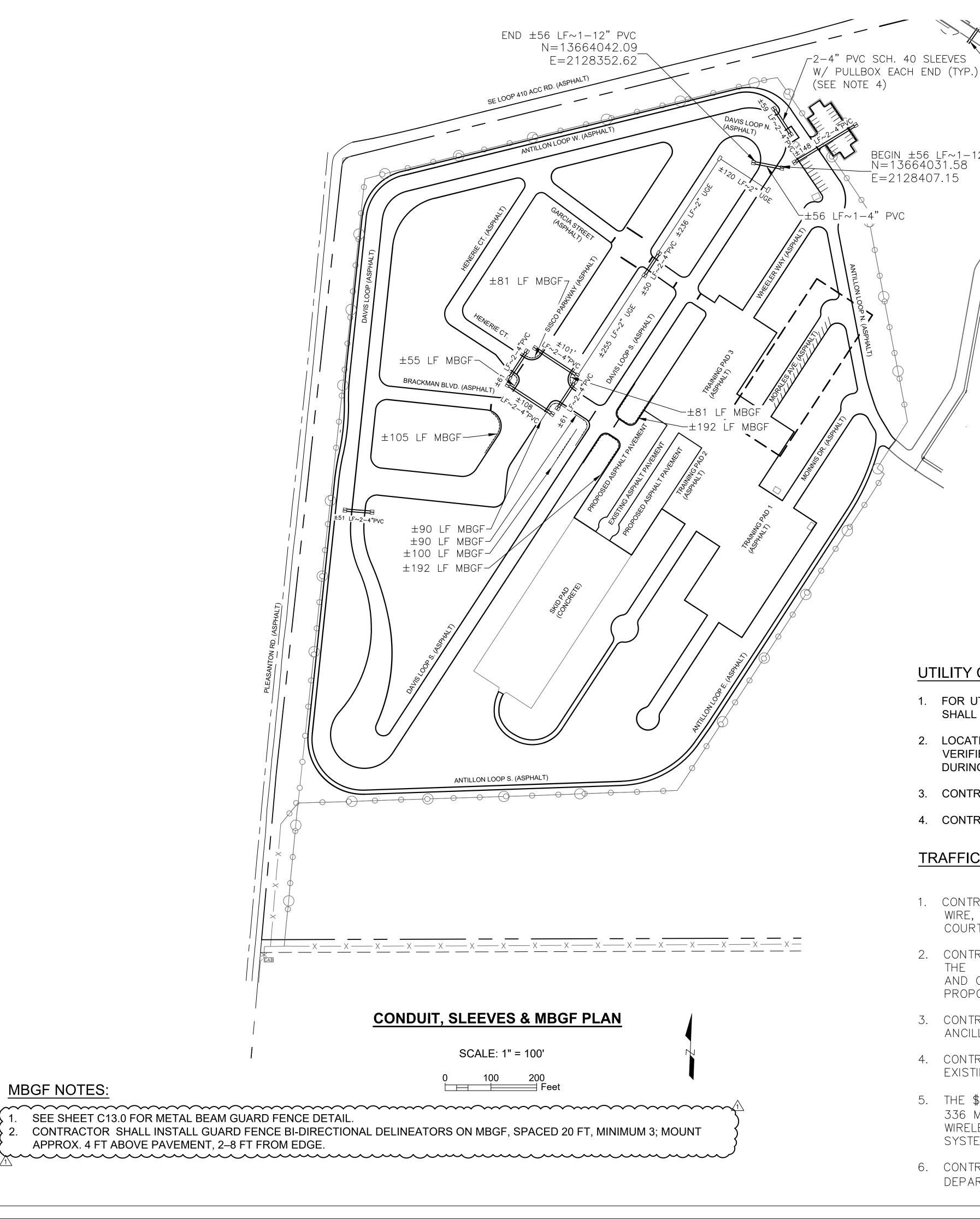
Project NO.: 22028 Revisions: "Addenda No. 1" - 8/22/25

DETENTION POND OUTFALL DETAIL

CONFORM TO CITY AND PROJECT SPECIFICATIONS AND SHALL BE PERFORMED BY QUALIFIED PERSONNEL.



**MBGF NOTES:** 



LEGEND:

----- PROPERTY LINE ADJACENT PROPERTY LINE EASEMENT LINE EXISTING WHITE PAINT STRIPE EXISTING WHITE PAINT STRIPE DASHED EXISTING EDGE OF ASPHALT -O-O-O-O-O-O-EXISTING CHAINLINK FENCE — e. gas — e. gas — EXISTING GAS LINE — p. uge — PROPOSED TRAFFIC SIGNAL CONDUIT EXISTING FIRE HYDRANT EXISTING GUY WIRE EXISTING SANITARY SEWER MANHOLE EXISTING STORM DRAIN MANHOLE EXISTING SIGN EXISTING SPRINKLER VALVE

EXISTING TREE

4" SLEEVE W/ PULL BOX EACH END

(UNLESS OTHERWISE SPECIFIED)

# **BENCHMARKS**:

- SURVEY CONTROL POINT "BH102" MAG NAIL WITH WASHER NORTHING: 13,664,041.93 EASTING: 2,127,394.46 ELEV: 600.78'
- SURVEY CONTROL POINT "BH103" MAG NAIL WITH WASHER NORTHING: 13,662,380.92 EASTING: 2,127,237.64 ELEV: 602.12'
- SURVEY CONTROL POINT "BH100" 1/2" IRON ROD WITH CAP NORTHING: 13,663,689.06 EASTING: 2,128,794.78 ELEV: 609.23'

# UTILITY CONSTRUCTION NOTE

-±34 LF~2-4" PVC 🦒

PULL BOX EACH END

SLEEVES WITH

BEGIN ±56 LF~1-12" PVC N=13664031.58

E=2128407.15

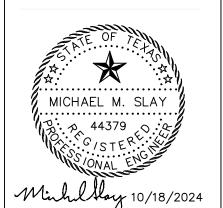
- 1. FOR UTILITY CONSTRUCTION, ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY COSA & SAPD.
- 2. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. ACTUAL DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL REPAIR EXISTING PAVEMENT REMOVED FOR 2" UGE.
- 4. CONTRACTOR SHALL LOCATE PULL BOXES MINIMUM 10' FROM EDGE OF PAVEMENT EACH WAY.

# TRAFFIC SIGNAL NOTES:

- 1. CONTRACTOR SHALL INCLUDE IN BASE BID THE PROPOSED INSTALLATION OF TRAFFIC SIGNALS, POLES, SPAN WIRE, CONDUIT, WIRE AND ATTENUATION BARRELS AROUND EACH POLE AT SISCO PARKWAY AND HENERIE
- 2. CONTRACTOR SHALL INCLUDE IN BASE BID THE PROPOSED INSTALLATION OF 2" CONDUIT AND PULL BOX FROM THE PROPOSED SIGNAL AT SISCO PARKWAY AND HENERIE COURT TO THE EXISTING SIGNAL AT SISCO PARKWAY AND GARCIA STREET TO A PROPOSED PULL BOX AND CONTINUING TO A PULL BOX AT THE BASE OF THE PROPOSED OBSERVATION TOWER.
- 3. CONTRACTOR SHALL INCLUDE IN THE BASE BID THE COST TO REMOVE THE EXISTING CONTROLLER AND ANCILLARY ITEMS FOR THE EXISTING TRAFFIC SIGNAL.
- 4. CONTRACTOR SHALL CONSTRUCT A TRAFFIC SIGNAL SYSTEM THAT OPERATES BOTH THE PROPOSED SIGNAL AND EXISTING SIGNAL FROM A CONTROLLER LOCATED WITHIN THE OBSERVATION TOWER.
- 5. THE \$160,000 ALLOWANCE PROVIDED IN THE BID SHALL PROVIDE FOR A NEW 2070LX CONTROLLER IN SPECIAL 336 MC CAIN TRAFFIC CONTROL CABINET, SIMULATOR/POLICE PANEL, RELAYS, HARDENED POWER SUPPLY, WIRELESS BRIDGE UNIT AND ALL ANCILLARY ITEMS NÉCESSARY FOR A FULLY OPERATIONAL TRAFFIC CONTROL SYSTEM THAT OPERATES BOTH TRAFFIC SIGNALS FROM THE OBSERVATION TOWER.
- 6. CONTRACTOR SHALL INCLUDE IN THE BASE BID 6 ATTENUATION BARRELS AS SPARES FOR SAN ANTONIO POLICE DEPARTMENT (SAPD).



SAN ANTONIO **LAREDO**9901 McPherson Avenue, #104
Laredo, Texas 78045
T: 956.791.0405



VEMEN

Project NO.: 22028

# LEGEND:

----- PROPERTY LINE ADJACENT PROPERTY LINE EASEMENT LINE EXISTING WHITE PAINT STRIPE EXISTING WHITE PAINT STRIPE DASHED EXISTING EDGE OF ASPHALT \_\_O\_\_O\_\_O\_\_ EXISTING CHAINLINK FENCE

# STRIPING NOTES:

- 1. A STRIPING SHALL BE USED TO INDICATE PARKING SPACES, NO PARKING, AND LANE STRIPING AREA. PARKING SPACE SHALL BE INDICATED BY FOUR INCHES (4") PAINTED WHITE STRIPED, NINE FEET TO TEN FEET (9'-10') ON CENTER. NO PARKING AREA SHALL BE NOTED BY 4 INCH WHITE LINES WITH FORTY-EIGHT INCHES (48") SEPARATION, PAINTED DIAGONALLY ACROSS THE AREA. LANE STRIPING SHALL BE FOUR FEET (4') PAINTED WHITE STRIPING. UNLESS OTHERWISE SPECIFIED.
- 2. ALL 4" STRIPING IS WHITE UNLESS OTHERWISE SPECIFIED.

# TOTAL STRIPING LENTGTHS:

1. 4" WHITE (SOLID LINE) - 14,268 LF

- 2. 4" WHITE (DASHED LINE) 5,582 LF
- 3. 4" YELLOW (SOLID LINE) 574 LF
- 4. 12" WIDE WHITE—STOP BAR— 304 LF

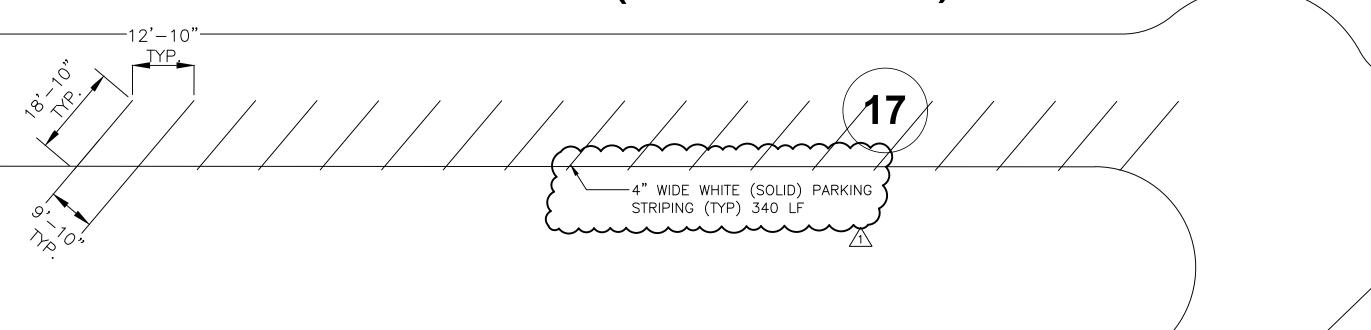
5. 4" WHITE — PARKING (SOLID LINE) — 904 LF

# MORALES AVE. (ASPHALT)

— 4" WIDE WHITE (SOLID) PARKING STRIPING (TYP) 306 LF

4" WIDE WHITE STRIPE (SOLID)/

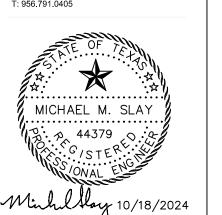
-4" WIDE WHITE (SOLID) PARKING STRIPING (TYP) 256 LF







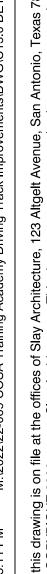


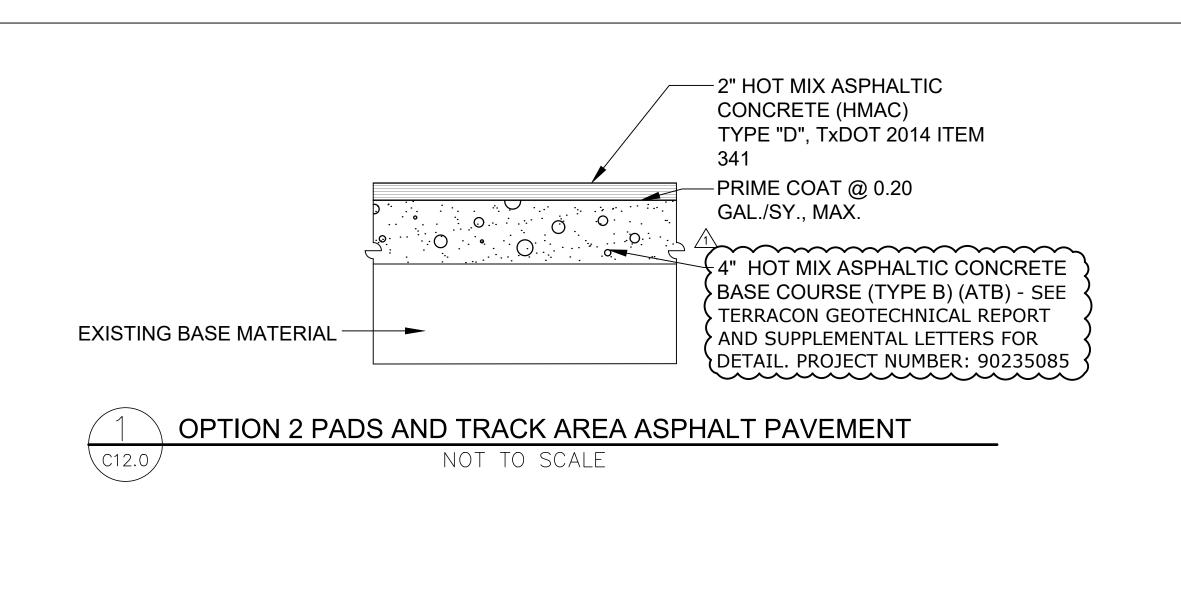


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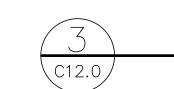
Project NO.: 22028 Date:8/22/2025

STRIPING PLAN



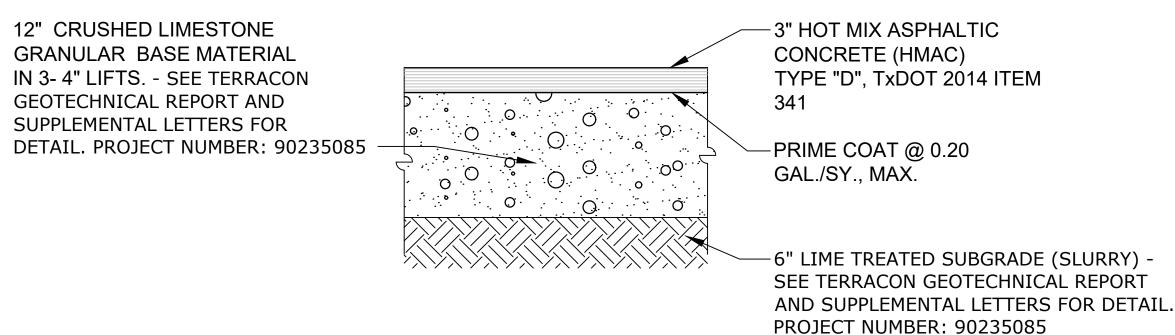


-2" HOT MIX ASPHALTIC CONCRETE (HMAC) TYPE "D", TxDOT 2014 ITEM 341 - SEE TERRACON GEOTECHNICAL REPORT AND SUPPLEMENTAL LETTERS FOR DETAIL. PROJECT NUMBER: 90235085 8" CRUSHED LIMESTONE GRANULAR BASE 0 MATERIAL IN 2-4" LIFTS.-SEE TERRACON -PRIME COAT @ 0.20 GEOTECHNICAL REPORT AND SUPPLEMENTAL GAL./SY., MAX. LETTERS FOR DETAIL. PROJECT NUMBER: 90235085 -6" LIME TREATED SUBGRADE (SLURRY) - SEE TERRACON GEOTECHNICAL REPORT AND SUPPLEMENTAL LETTERS FOR DETAIL. PROJECT NUMBER: 90235085



# PARKING AREA ASPHALT PAVEMENT

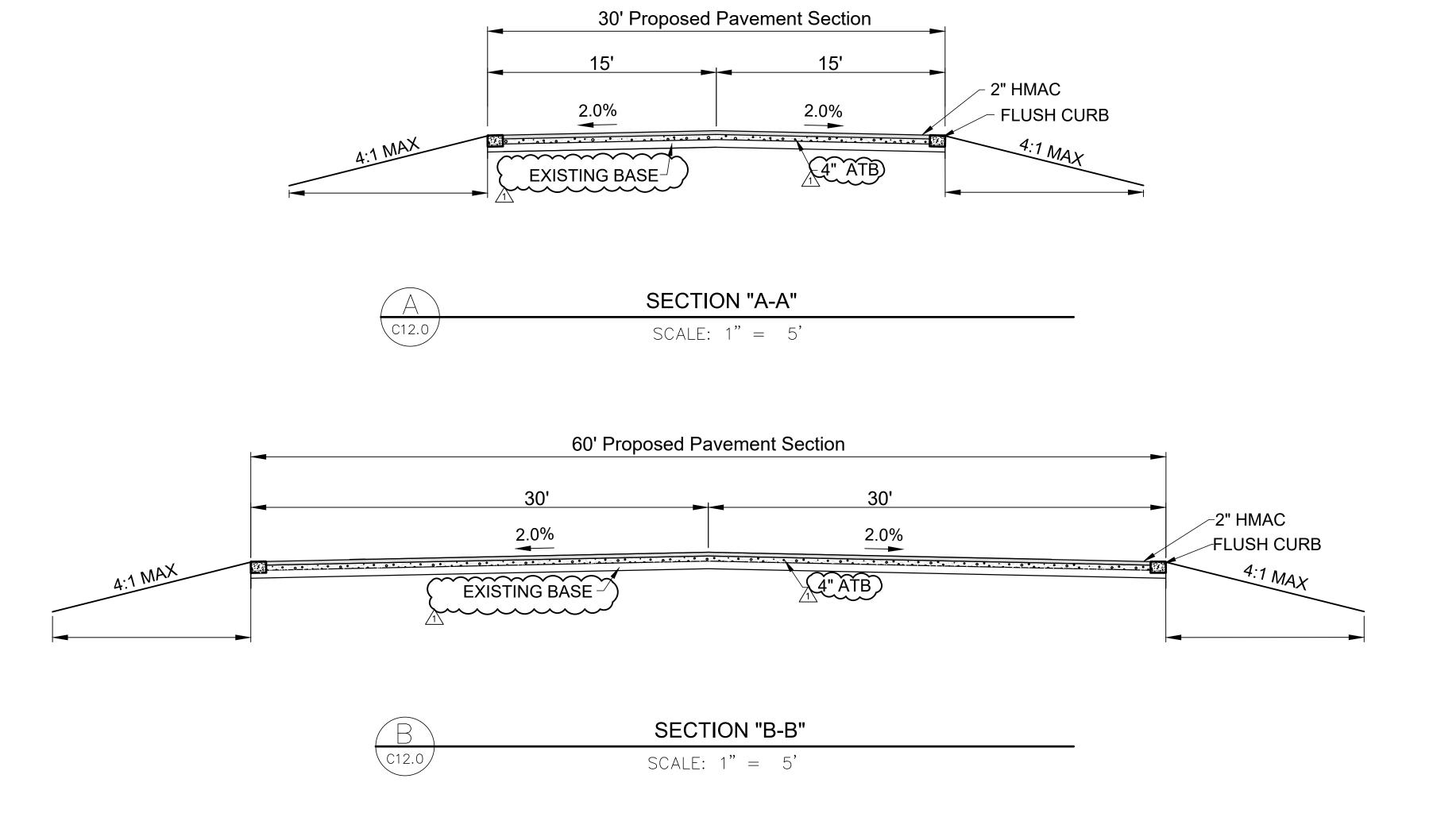
NOT TO SCALE





# NEW TRACK/ANTILLON LOOP ASPHALT PAVEMENT FULL DEPTH RECONSTRUCTION

NOT TO SCALE





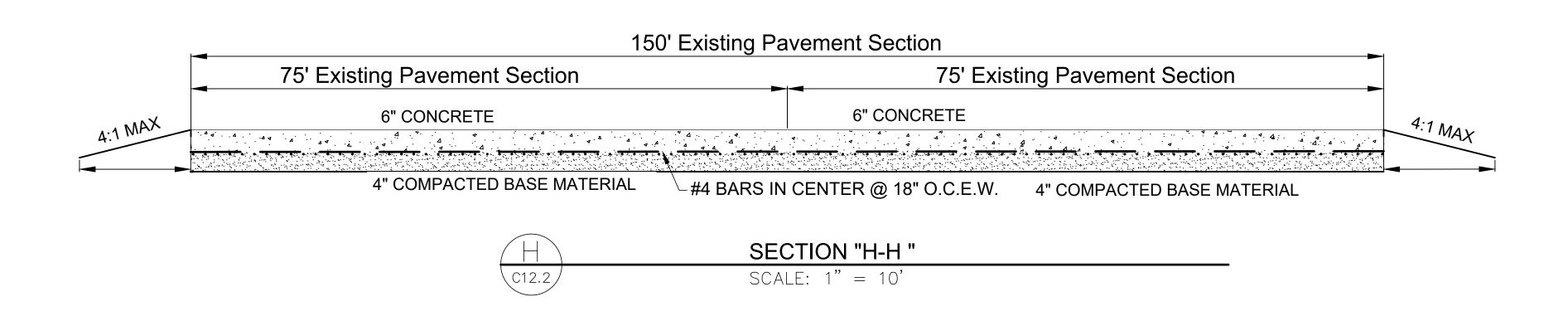
SAN ANTONIO 123 Altgelt Avenue San Antonio, Texas 78201 T: 210.736.3009 **LAREDO** 9901 McPherson Avenue, #104

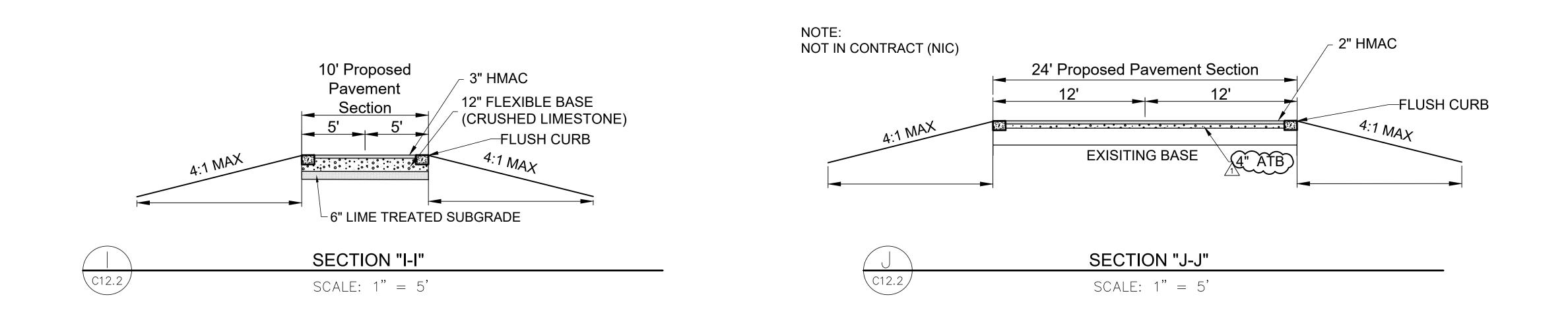


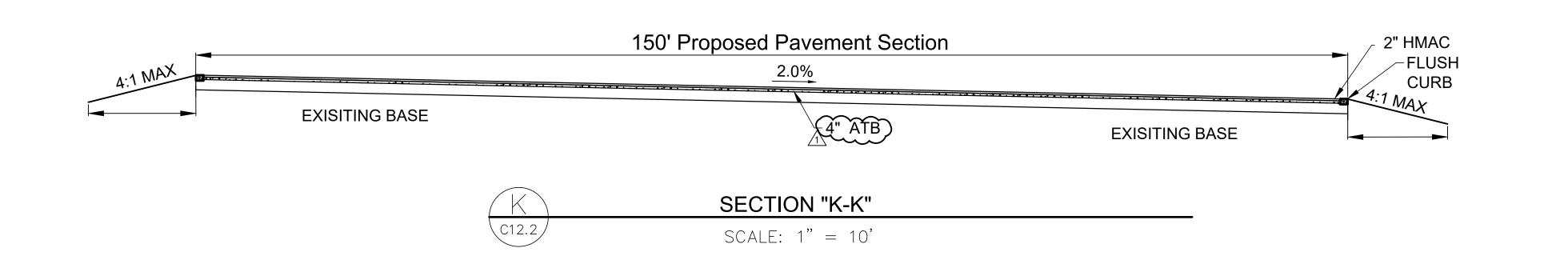
**DOCUMENTS** CONSTRUCTION

100% Project NO.: 22028 Date:8/22/2025 Revisions: "Addenda No. 1" - 8/22/25

**CROSS SECTIONS** 







100% CONSTRUCTION DOCUMENTS
SAPD ACADEMY TRACK PAVEMENT

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LAREDO 9901 McPherson Avenue, #104 Laredo, Texas 78045 T: 956.791.0405

C12.2

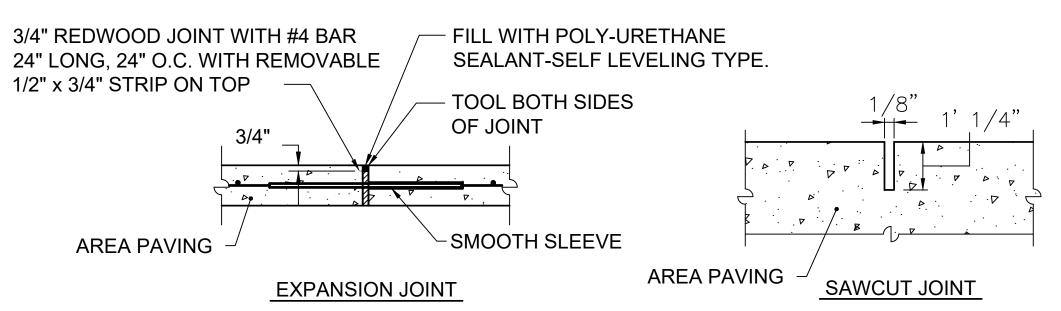
Revisions: "Addenda No. 1" - 8/22/25

Project NO.: 22028

Date:8/22/2025

CROSS SECTIONS

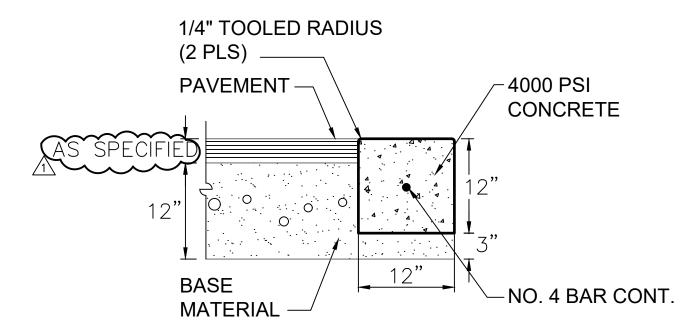




# **GENERAL NOTES:**

SAWCUT JOINTS BETWEEN 18 AND 24 HOURS AFTER CONCRETE POUR.

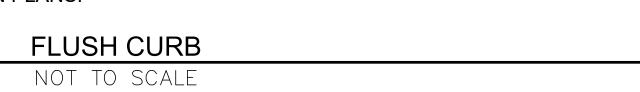
**CONTROL JOINTS** C12.3/ NOT TO SCALE

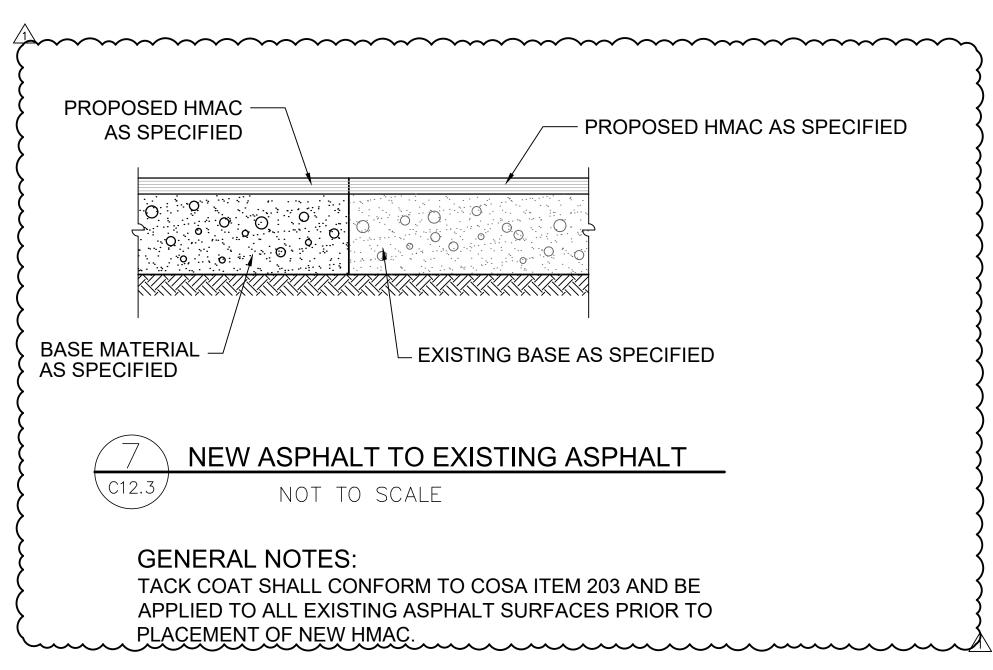


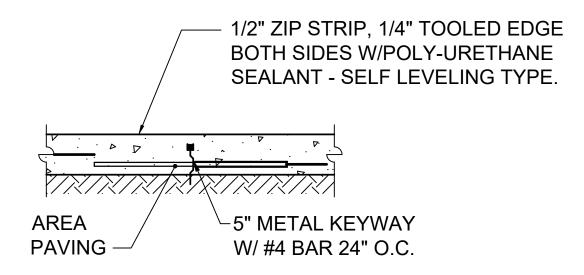
# **GENERAL NOTES:**

SAW JOINTS 10' ON CENTER AND EXPANSION JOINTS AT 40' ON CENTER. WHERE CURB ABUTS SIDEWALKS AND OR CONCRETE PAVEMENT, JOINTS SHALL MATCH UNLESS OTHERWISE SHOWN ON PLANS.

C12.3



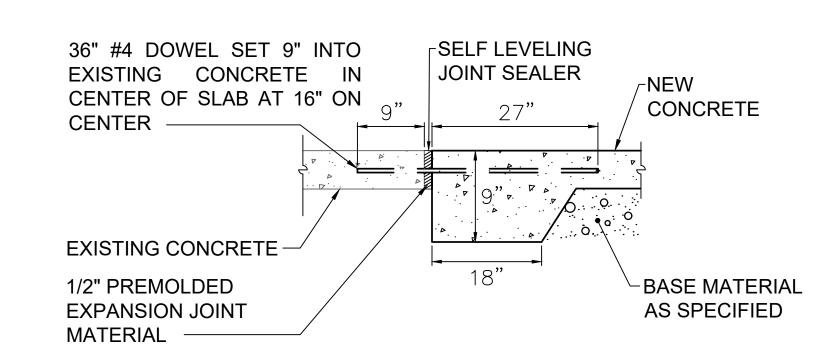




# **GENERAL NOTES:**

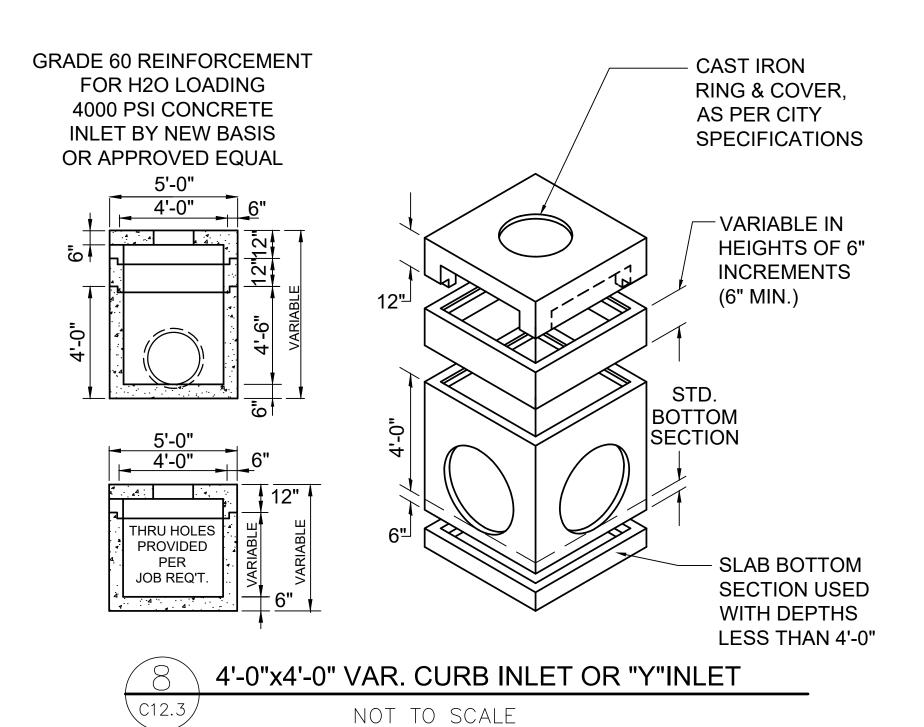
CONSTRUCTION JOINTS TO BE USED ON PIPE

CHASES AND BETWEEN CONCRETE POURS ONLY. **CONSTRUCTION JOINT** C12.3 NOT TO SCALE

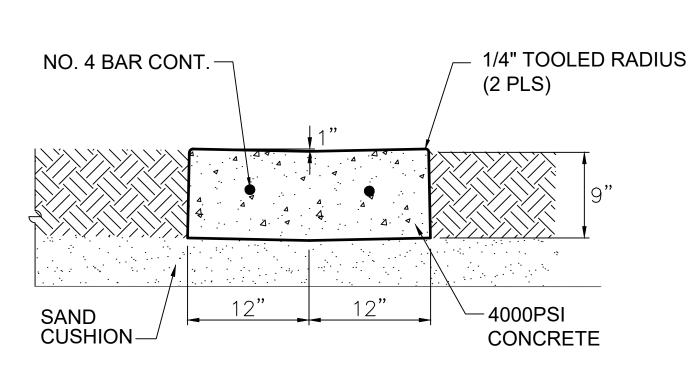


# NEW CONCRETE TO EXISTING CONCRETE

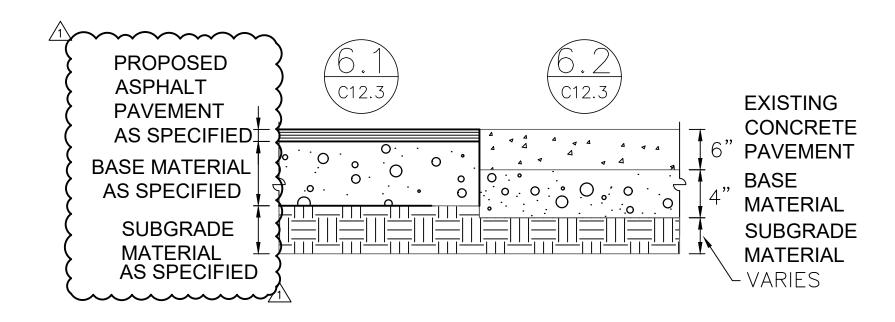
NOT TO SCALE



# **PAVEMENT DETAILS**



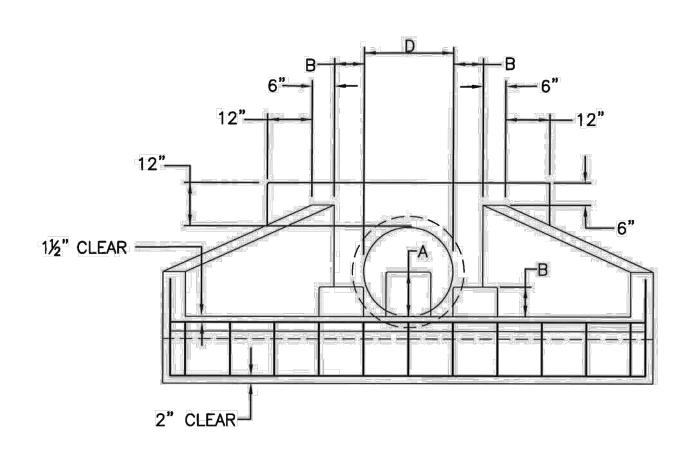




# C12.3

# CONCRETE TO ASPHALT PAVEMENT

NOT TO SCALE



# SECTION B-B

- 1. ALL CONCRETE SHALL BE TYPE "C" AS PER SPEC. 403S, CONCRETE FOR STRUCTURES.
- 2. CHAMFER ALL EXTERNAL VISIBLE CORNERS.
- 3. DISSIPATOR BLOCKS REQUIRED ON DISCHARGE HEADWALLS ONLY.

D	18"	21"	24"	27"	30"	33"	36"	42"	48"	54"	60"
A	9"	10"	12"	14"	15"	16"	18"	21"	24"	27"	<b>3</b> 0"
В	6"	7"	8"	9"	10"	11"	12"	14"	16"	18"	20"
C	90"	105"	120"	135"	150"	165"	180"	210"	240"	270"	<i>3</i> 00"
L	54"	63"	72"	81"	90"	99"	108"	126"	144"	162"	180"
E	12"	14"	16"	18"	20"	22"	24"	28"	32"	36"	40"

DISCHARGE VELOCITIES GREATER THAN 3 METERS/SECOND (10 fps) REQUIRE ROCK OUTLET PROTECTION.



NOT TO SCALE



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9901 McPherson Avenue, #104

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Laredo, Texas 78045 T: 956.791.0405

Revisions: "Addenda No. 1" - 8/22/25

100%

Date:8/22/2025

TAB	BLE NO.	1 STEE	L BAR SIZE	AND SPA	CING	
TYPE	SLAB THICKNESS		LONGITU	LONGITUDINAL*		
PAVEMENT	AND BAI	R SIZE	REGULAR BARS	TIEBARS	BARS	TIEBARS
	T (IN.)	BAR SIZE	SPACING (IN.)	SPACING (IN.)	SPACING (IN.)	SPACING
	6.0		7.5	7.5		
	6.5		7.0	7.0	]	
	7.0	#5	6.5	6.5	24	24
	7.5		6.0	6.0		
	8.0		9.0	9.0		
CRCP	8.5		8.5	8.5		
CRCF	9.0		8.0	8.0		
	9.5		7.5	7.5		
	10.0	#6	7.0	7.0	24	24
	10.5		6.75	6.75		
	11.0		6.5	6.5		
	11.5		6.25	6.25		
	<u>&gt;</u> 12.0		6.0	6.0		
JRCP	<8.0	#5	24.0	12.0	24	24
JINCI	≥8.0	#6	24.0	12.0	24	24
CPCD	<8.0	#5	NONE	12.0	NONE	24

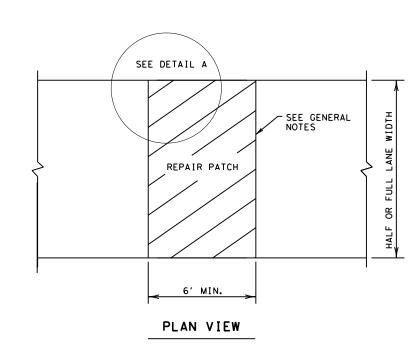
### NONE \* USE 12" SPACING AS FIRST AND LAST SPACING AT END OR SIDE FOR ALL BARS.

NONE

12.0

≥8.0

#6



### **GENERAL NOTES**

- 1.ITEM 361, "REPAIR OF CONCRETE PAVEMENT" SHALL GOVERN FOR THIS WORK.
- 2.MULTIPLE PIECE TIEBARS SHALL BE USED WHEN THE REPAIR AREA MUST BE PLACED IN TWO STAGES DUE TO SEQUENCE OF CONSTRUCTION.
- 3. FULL DEPTH SAW CUTS SHALL BE MADE AROUND THE PERIMETER OF THE AREA TO BE REPAIRED. THE CUT SHALL BE MADE AT A RIGHT ANGLE TO THE PAVEMENT EDGE AND TO THE CENTER LINE OF THE PAVEMENT.
- 4.AT LEAST ONE LONGITUDINAL FULL DEPTH SAW CUT SHALL BE AT AN EXISTING LONGITUDINAL JOINT.
- 5. ADDITIONAL SAW CUTS MAY BE REQUIRED WITHIN THE AREA OF THE REPAIR TO FACILITATE REMOVAL OF THE CONCRETE OR TO ALLEVIATE BINDING OF THE FULL DEPTH SAW CUT AT THE REPAIR EDGE.
- 6. THE SAW CUTS WHICH EXTEND OUTSIDE THE AREA OF THE REPAIR WILL BE CLEANED AND FILLED WITH A CEMENTITIOUS GROUT APPROVED BY THE ENGINEER.
- 7. EXISTING LONGITUDINAL AND TRANSVERSE JOINTS REMOVED DUE TO REPAIR OPERATION SHOULD BE RESTORED IN ACCORDANCE WITH STANDARD SHEET "CONCRETE PAVING DETAILS, JOINT SEALS.

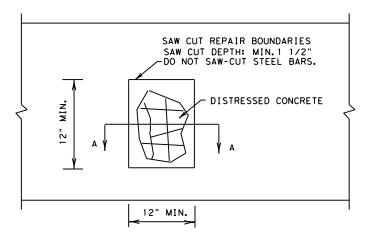
# 10" MIN. TRANSVERSE TIEBARS TOP OF DRILLED HOLES AT T/2. MIN.10" EPOXY-GROUTED INTO EXISTING CONCRETE. MIN.25" EXTENDED INTO THE REPAIR PATCH. RECOMPACTED BASE TRANSVERSE BARS BAR LENGTH IS WIDTH OF REPAIR MINUS 2". PLACED IN ONE LAYER AND TIED TO TIEBARS. LONGITUDINAL BARS -BAR LENGTH IS LENGTH OF REPAIR MINUS 2". PLACED IN ONE LAYER AND TIED TO TIEBARS. LONGITUDINAL TIEBARS -BOTTOM OF DRILLED HOLES AT T/2. MIN.10" EPOXY-GROUTED INTO EXISTING CONCRETE. MIN.25" EXTENDED INTO THE REPAIR PATCH. <u>DETAIL A</u>

GROUTED TIEBARS & REINFORCEMENT

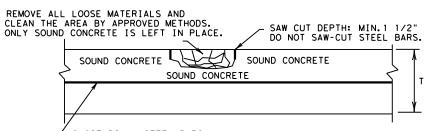
FULL-DEPTH REPAIR OF CRCP, JRCP, AND CPCD

### GENERAL NOTES

- 1.ITEM 361, "REPAIR OF CONCRETE PAVEMENT" SHALL GOVERN FOR THIS WORK.
- 2. THE SAW CUTS WHICH EXTEND OUTSIDE THE AREA OF THE REPAIR WILL BE CLEANED AND FILLED WITH A CEMENTITIOUS GROUT APPROVED BY THE
- 3. EXISTING LONGITUDINAL AND TRANSVERSE JOINTS REMOVED DUE TO REPAIR OPERATION SHOULD BE RESTORED IN ACCORDANCE WITH STANDARD SHEET "CONCRETE PAVING DETAILS, JOINT SEALS.'



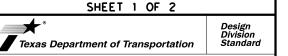
### PLAN VIEW



∠LONGITUDINAL STEEL BARS:

- \*REPAIR AREAS MAY BE ADJUSTED AFTER REMOVING DISTRESSED CONCRETE. SWITCH THE HALF-DEPTH REPAIR TO FULL-DEPTH
  REPAIR IF EXPOSED EXISTING LONGITUDINAL BARS ARE DEFICIENT, AS APPROVED. COMPENSATION WILL BE MADE FOR UNEXPECTED VOLUMES OF REPAIR AREAS OR CHANGES IN SCOPE OF WORK.
- \*INCREASE THE REPAIR AREA AND PERFORM A FULL-DEPTH REPAIR AS DIRECTED IF LONGITUDINAL STEEL BARS WERE DAMAGED BY THE REMOVAL OPERATIONS. NO ADDITIONAL COMPENSATION WILL BE MADE. SECTION A-A

# HALF-DEPTH REPAIR

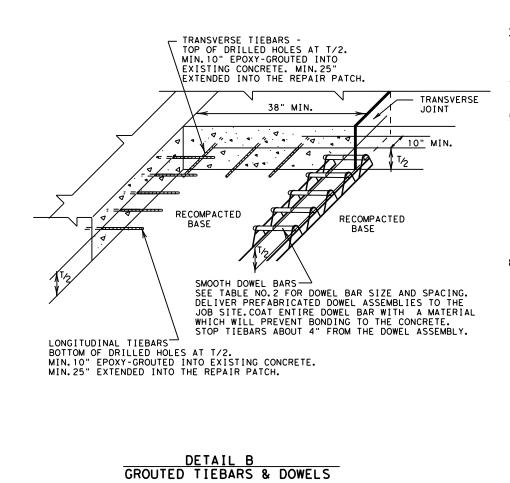


### REPAIR OF CONCRETE PAVEMENT

### REPCP-14

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CTxDOT: DECEMBER 2014	CONT	SECT	JOB		HIC	SHWAY
REVISIONS						
	DIST		COUNTY			SHEET NO.
					C	13.4

### GENERAL NOTES



REPAIR OF TRANSVERSE JOINT OF CPCD

- 1. ITEM 361, "REPAIR OF CONCRETE PAVEMENT" SHALL GOVERN FOR THIS WORK.
- 2. MULTIPLE PIECE TIEBARS SHALL BE USED WHEN THE REPAIR AREA MUST BE PLACED IN TWO STAGES DUE TO SEQUENCE OF CONSTRUCTION.
- 3. FULL DEPTH SAW CUTS SHALL BE MADE AROUND THE PERIMETER OF THE AREA TO BE REPAIRED. THE CUT SHALL BE MADE AT A RIGHT ANGLE TO THE PAVEMENT EDGE AND TO THE CENTER LINE OF THE PAVEMENT.
- 4. AT LEAST ONE LONGITUDINAL FULL DEPTH SAW CUT SHALL BE AT AN EXISTING LONGITUDINAL JOINT.
- 5. ADDITIONAL SAW CUTS MAY BE REQUIRED WITHIN THE AREA OF THE REPAIR TO FACILITATE REMOVAL OF THE CONCRETE OR TO ALLEVIATE BINDING OF THE FULL DEPTH SAW CUT AT THE REPAIR EDGE.
- 6. THE SAW CUTS WHICH EXTEND OUTSIDE THE AREA OF THE REPAIR WILL BE CLEANED AND FILLED WITH A CEMENTITIOUS GROUT APPROVED BY THE ENGINEER.
- 7. EXISTING LONGITUDINAL AND TRANSVERSE JOINTS REMOVED DUE TO REPAIR OPERATION SHOULD BE RESTORED IN ACCORDANCE WITH STANDARD SHEET "CONCRETE PAVING DETAILS, JOINT SEALS."
- 8.DOWEL BAR PLACEMENT TOLERANCE SHALL BE +/- 1/4 IN. HORIZONTALLY AND VERTICALLY UNLESS OTHERWISE SPECIFIED. WHERE DOWEL BAR BASKETS ARE USED, REMOVE THE SHIPPING WIRES.

TABLE NO.	2 DOWELS (SMO	OTH BARS)	
PAVEMENT THICKNESS (INCHES)	SIZE AND DIA.	LENGTH (IN.)	SPACING
<10	#8 (1 IN.)	10.0	12.0
≥10	#10 (1 <sup>1</sup> / <sub>4</sub> IN.)	18.0	12.0

SHEET 2 OF 2

Design De

### REPAIR OF CONCRETE PAVEMENT

### REPCP-14

FILE: repcp14.dgn	DN: Tx	DOT	DN: HC	DW:	HC	ck: AN
© TxDOT: DECEMBER 2014	CONT	SECT	JOB		- 1	HIGHWAY
REVISIONS						
	DIST		COUNTY			SHEET NO.
					(	113.5

SEE DETAIL B

PATCH

REPAIR

PATCH

38" MIN. 38" MIN.

PLAN VIEW

SECTION A-A

1/2 DOWEL LENGTH

TIEBARS-

COAT ENTIRE DOWEL TO PREVENT BOND SEE GENERAL NOTES

TRANSVERSE JOINT

-SAW CUT DEPTH: T/3 JOINT SEALS: METHOD A OR B

SMOOTH DOWEL BARS

Cable Barrier

Cable Barrier

Terminus /

Guard Rail

Terminus /

Impact Head

Bridges with no

Reduced Width

Approaches to

Culverts without

Pavement Narrowing

reeways/Expressway

lane merge) on

Bridge Rail

Crossovers

Approach Rail

Impact Head

Reflectors matching the color of the edge line

Delineators when within

Object marker on end

Divided highway - Object

marker on approach end

Undivided 2-lane highways -

Object marker on approach and departure end

Type 3 Object Marker (OM-3)

delineators approaching rail

Type 2 and Type 3 Object Markers (OM-3) and 3 single

delineators approaching

Type 2 Object Markers

Double yellow delineators and RPMs

Single delineators adjacent to

affected lane for full length of

at end of rail and 3 single

Bi-Directional

Every 5th cable

100'max)

barrier post (up to

Requires reflective sheeting provided by manufacturer per D & OM (VIA)

or a Type 3 Object Marker (OM-3) in

front of the terminal end

See D & OM(6)
Requires reflective sheeting provided

by manufacturer

per D & OM (VIA)

or a Type 3 Object Marker (OM-3) in

front of the

terminal end

See D & OM(5) and D & OM(6)

See D & OM(5)

Requires reflective

sheeting provided

per D & OM(VIA)

or a Type 3 Object Marker (OM-3) in

front of the

terminal end

See D & OM(5)

See Detail 2

on D & OM(4)

See Detail 1 on D & OM(4)

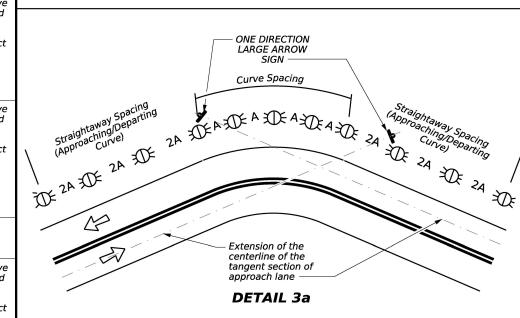
100 feet

# DELINEATOR AND OBJECT MARKER APPLICATION AND SPACING MINIMUM WARNING DEVICES AT CURVES WITH ADVISORY SPEEDS

APPLICATION AND SPACING			WITH ADVISORY SPEEDS				
CONDITION	REQUIRED	REOUIRED MINIMUM		REQUIRED MINIMUM Advisor		Turn/Curve A	dvisory Speed
	TREATMENT	SPACING	Advisory Speed is less than Posted Speed	Turn (30 MPH or less)	Curve (35 MPH or more)		
Fwy./Exp. Tangent	RPMs	See PM and FPM standard sheets	5 MPH	RPMs and Pavement Markings			
Fwy./Exp. Curve	Single delineators on right side	See delineator spacing table	10 MPH	<ul> <li>Advance Horizontal Alignment Warr</li> <li>RPMs and Pavement Markings</li> </ul>	ning Sign with Advisory Speed Plaque; and		
Fwy/Exp.Ramp	Single delineators on at least one side of ramp (should be on outside of	100 feet on ramp tangents  Use delineator spacing table for ramp curves	15 MPH	<ul> <li>Advance Horizontal Alignment Warning Sign with Advisory Speed Plaque; and</li> <li>RPMs, Pavement Markings, and Delineators; or</li> <li>RPMs, Pavement Markings, and One Direction Large Arrow sign(s)</li> </ul>	<ul> <li>Advance Horizontal Alignment Warning Sign with Advisory Speed Plaque; and</li> <li>RPMs, Pavement Markings, and Chevrons; or</li> <li>RPMs, Pavement Markings, and One Direction Large Arrow sign(s)</li> </ul>		
	curves) (see Detail 4a on D&OM(4))  D&OM(4))  Spacing" does n apply to ramp	("straightway spacing" does not	20 4474	3 3 17	where geometric conditions or roadside obstacles prevent the installation of chevrons		
Acceleration/ Deceleration Lane	Double delineators (see Detail 4a on D&OM(4))	100 feet (See Detail 4a on D & OM(4))	20 MPH	<ul> <li>RPMs, Pavement Markings, and Che</li> <li>RPMs, Pavement Markings, and One</li> </ul>	•		
Truck Escape Ramp	Single red delineators on both sides	50 feet	25 MPH or more	Advance Horizontal Alignment     Warning Sign with Advisory Speed Plaque; and	<ul> <li>Advance Horizontal Alignment Warning Sign with Advisory Speed Plaque; and</li> </ul>		
Bridge Rail (steel or concrete) and Metal Beam Guard Fence	Bi-Directional Delineators when undivided with one lane each direction Single Delineators when multiple lanes each direction	Equal spacing (100'max) but not less than 3 delineators		<ul> <li>RPMs, Pavement Markings, and Chevrons; or</li> <li>RPMs, Pavement Markings, and One Direction Large Arrow sign(s) where geometric conditions or roadside obstacles prevent the installation of chevrons</li> </ul>	<ul> <li>RPMs, Pavement Markings, and Chevrons</li> </ul>		
Concrete Traffic Barrier (CTB)	Barrier reflectors matching	Equal spacing	NOTE				
or Steel Traffic Barrier	the color of the edge line	100' max			ither a center line, edge lines, or both are		

A roadway is considered to have pavement markings when either a center line, edge lines, or both are present. A roadway is considered to have RPMs when they are used to supplement centerline pavement markings.

### SUGGESTED SPACING FOR DELINEATORS ON HORIZONTAL CURVES



### NOTE

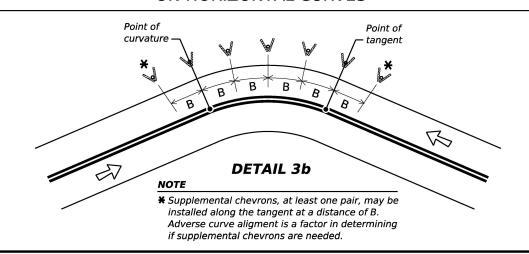
ONE DIRECTION LARGE ARROW (W1-6) sign should be located at approximately and perpendicular to the extension of the centerline of the tangent section of approach lane.

# Delineator Bi-directional Delineator Sign

### **GENERAL NOTES**

- 1. Unless otherwise indicated, the delineator or barrier reflector color shall conform to the color of the pavement edge line on the side of the road where the delineators or barrier reflectors are placed.
- 2. Barrier reflectors may be used to replace required delineators.
- 3. Single red delineators may be mounted on the back side of delineator posts for wrong way driver applications.

### SUGGESTED SPACING FOR CHEVRONS ON HORIZONTAL CURVES



### DELINEATOR AND CHEVRON SPACING

WHEN DEGREE OF CURVE OR RADIUS IS KNOWN

			FEET	
Degree of Curve	Radius of Curve	Spacing in Curve	Spacing in Straightaway	Chevron Spacing in Curve
		Α	2A	В
1	5730	225	450	
2	2865	160	320	
3	1910	130	260	200
4	1433	110	220	160
5	1146	100	200	160
6	955	90	180	160
7	819	85	170	160
8	716	<i>75</i>	150	160
9	637	75	150	120
10	573	70	140	120
11	521	65	130	120
12	478	60	120	120
13	441	60	120	120
14	409	55	110	80
15	382	55	110	80
16	358	55	110	80
19	302	50	100	80
23	249	40	80	80
29	198	35	70	40
38	151	30	60	40
57	101	20	40	40

Curve delineator approach and departure spacing should include 3 delineators spaced at 2A. This spacing should be used during design preparation or when the degree of curve is known.

### DELINEATOR AND CHEVRON SPACING

WHEN DEGREE OF CURVE OR RADIUS IS NOT KNOWN

	FEET					
Advisory Speed (MPH)	Spacing Spacing in in Curve Straightaway		Chevron Spacing in Curve			
	Α	2A	В			
65	130	260	200			
60	110	220	160			
55	100	200	160			
50	85	170	160			
45	<i>75</i>	150	120			
40	70	140	120			
35	60	120	120			
30	55	110	80			
25	50	100	80			
20	40	80	80			
15	35	70	40			

If the degree of curve is not known, delineator spacing may be determined based on the Advisory Speed of the curve. Use the delineator curve spacing for each Advisory Speed (MPH).



Traffic Safety Division Standard

DELINEATOR &
OBJECT MARKER
PLACEMENT DETAILS
APPLICATION & SPACING
D & OM(3)-25

FILE: don	n3-25.dgn	DN: TX	DOT.	ск: TxD0T	DW:	TxD0T	ck: TxD0T
© TxDOT	May 2025	CONT	SECT	JOB		HIGHWAY	
REVISIONS 8-04 7-20 3-15 5-25							
		DIST		COUNTY		SHEET NO.	
8-15							

20C

# **Changes to CivCast Bid Form**

SECTION TITLE	ITEM NO.	DESCRIPTION	UNIT	QTY
Construction Phase 1 - Davis Loop - Phase 1C	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	14,259
Construction Phase 1 - Davis Loop - Phase 1C	201.1	Cement Treatment (Existing Material) 8"	SY	14,259
Construction Phase 1 - Davis Loop - Phase 1C	203.1	Tack Coat	GAL	1,426
Construction Phase 1 - Davis Loop - Phase 1C	206.1	Asphalt Treated Base 4"	SY	14,259
Sisco Parkway - Phase 1B	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	8,604
Sisco Parkway - Phase 1B	201.1	Cement Treatment (Existing Material) 8"	SY	8,604
Sisco Parkway - Phase 1B	203.1	Tack Coat	GAL	861
Sisco Parkway - Phase 1B	206.1	Asphalt Treated Base 4"	SY	8,604
Brackman BLVD - Phase 1A	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	885
Brackman BLVD - Phase 1A	201.1	Cement Treatment (Existing Material) 8"	SY	885
Brackman BLVD - Phase 1A	203.1	Tack Coat	GAL	89
Brackman BLVD - Phase 1A	206.1	Asphalt Treated Base 4"	SY	885
Henerie CT - Phase 1A	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	1,871
Henerie CT - Phase 1A	201.1	Cement Treatment (Existing Material) 8"	SY	1,871
Henerie CT - Phase 1A	203.1	Tack Coat	GAL	187
Henerie CT - Phase 1A	206.1	Asphalt Treated Base 4"	SY	1,871
Garcia Street - Phase 1A	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	629
Garcia Street - Phase 1A	201.1	Cement Treatment (Existing Material) 8"	SY	629
Garcia Street - Phase 1A	203.1	Tack Coat	GAL	63
Garcia Street - Phase 1A	206.1	Asphalt Treated Base 4"	SY	629
Antillion Loop (South, West, & East) - Construction Phase 2A	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	3,680
Antillion Loop (South, West, & East) - Construction Phase 2A	203.1	Tack Coat	GAL	368
Antillion Loop (South, West, & East) - Construction Phase 2A	108.1	Lime Treated Subgrade (Slurry) (6" Comp Depth)	SY	3,680
Antillion Loop (North) - Construction Phase 2B	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	1,767
Antillion Loop (North) - Construction Phase 2B	201.1	Cement Treatment (Existing Material) 8"	SY	1,767
Antillion Loop (North) - Construction Phase 2B	203.1	Tack Coat	GAL	177
Antillion Loop (North) - Construction Phase 2B	206.1	Asphalt Treated Base 4"	SY	1,767
New Pavement Areas - Construction Phase 2B	108.1	Lime Treated Subgrade (Slurry) (6" Comp Depth)	SY	4,926
New Pavement Areas - Construction Phase 2B	203.1	Tack Coat	GAL	493
Parking Area - Construction Phase 2B	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	733

Parking Area - Construction Phase 2B	201.1	Cement Treatment (Existing Material) 8"	SY	733
Parking Area - Construction Phase 2B	203.1	Tack Coat	GAL	74
Parking Area - Construction Phase 2B	206.1	Asphalt Treated Base 4"	SY	733
New Parking Area - Construction Phase 2B	108.1	Lime Treated Subgrade (Slurry) (6" Comp Depth)	SY	833
New Parking Area - Construction Phase 2B	203.1	Tack Coat	GAL	84
Training Pad 1 - Construction Phase 3C	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	4,895
Training Pad 1 - Construction Phase 3C	201.1	Cement Treatment (Existing Material) 8"	SY	4,895
Training Pad 1 - Construction Phase 3C	203.1	Tack Coat	GAL	490
Training Pad 1 - Construction Phase 3C	206.1	Asphalt Treated Base 4"	SY	4,895
Training Pad 2 - Construction Phase 3B	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	4,947
Training Pad 2 - Construction Phase 3B	201.1	Cement Treatment (Existing Material) 8"	SY	4947
Training Pad 2 - Construction Phase 3B	203.1	Tack Coat	GAL	495
Training Pad 2 - Construction Phase 3B	206.1	Asphalt Treated Base 4"	SY	4,947
Training Pad 3 - Construction Phase 3A	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	4,936
Training Pad 3 - Construction Phase 3A	201.1	Cement Treatment (Existing Material) 8"	SY	4936
Training Pad 3 - Construction Phase 3A	203.1	Tack Coat	GAL	494
Training Pad 3 - Construction Phase 3A	206.1	Asphalt Treated Base 4"	SY	4,947
Concrete Skid Pad - Phase 3A	230	Repair of Concrete Pavement	SY	660
Construction Phase 3 (Not Including Training Pads) - Wheeler Way - Construction Phase 3A	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	1,918
Construction Phase 3 (Not Including Training Pads) -	201.1	Cement Treatment (Existing Material) 8"	SY	1918
Wheeler Way - Construction Phase 3A Construction Phase 3 (Not Including Training Pads) -	203.1	Tack Coat	GAL	174
Wheeler Way - Construction Phase 3A  Construction Phase 3 (Not Including Training Pads) -	200.1	Tuck Gode	G/ (E	17-7
Wheeler Way - Construction Phase 3A	206.1	Asphalt Treated Base 4"	SY	1,918
Morales Ave Construction Phase 3B	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	2,475
Morales Ave Construction Phase 3B	201.1	Cement Treatment (Existing Material) 8"	SY	2475
Morales Ave Construction Phase 3B	203.1	Tack Coat	GAL	248
Morales Ave Construction Phase 3B	206.1	Asphalt Treated Base 4"	SY	2,475
Moinnis Dr Construction Phase 3C	208.1	Salvaging, Hauling, & Stockpiling Reclaimable Asphaltic Pavement (+/-2" Depth)	SY	1,904
Moinnis Dr Construction Phase 3C	201.1	Cement Treatment (Existing Material) 8"	SY	1904
Moinnis Dr Construction Phase 3C	203.1	Tack Coat	GAL	248
Moinnis Dr Construction Phase 3C	206.1	Asphalt Treated Base 4"	SY	1,904
New Intersection - Construction Phase 1C	618.1	UGE Conduit	LF	706
New Intersection - Construction Phase 1C	550	Trench Excavation Saftey Protection	LF	1,191
New Intersection - Construction Phase 1C	618.1	2" Electrical Conduit	LF	692

New Intersection - Construction Phase 1C	618.2	3" Electrical Conduit	LF	427
New Intersection - Construction Phase 1C	684.1	IMSA Cable #14 7-Cond.	LF	654
New Intersection - Construction Phase 1C	620	#8 Solid Bare Wire	LF	437
New Intersection - Construction Phase 1C	627	Treated Timber Poles	EA	4
New Intersection - Construction Phase 1C	615	2070 Linux Controller and Type 336 Cabinet	EA	1
New Intersection - Construction Phase 1C	625	Zinc-Coated Steel Wire Strand	LF	8
New Intersection - Construction Phase 1C	625	Guy Anchor	EA	8
New Intersection - Construction Phase 1C	620	#6 THWN	LF	40
New Intersection - Construction Phase 1C	609	Programable Signal Heads - 1	EA	3
New Intersection - Construction Phase 1C	609	Programable Signal Heads - 4	EA	2
New Intersection - Construction Phase 1C	609	Programable Signal Heads - 54	EA	4
New Intersection - Construction Phase 1C	615.1	#7 Pullbox	EA	5
New Intersection - Construction Phase 1C	636	Aluminum Signs (D3-1)	EA	4
New Intersection - Construction Phase 1C	636	Aluminum Signs (R3-6L)	EA	2
New Intersection - Construction Phase 1C	600-656	Signalized Intersection	LS	1
Detention Pond - Construction Phase 1A	307.1	2' Concrete Swale	SY	150
Detention Pond - Construction Phase 1A	107	Embankment	LF	1168
Detention Pond - Construction Phase 1A	DMS-6200	160N Mirafi Geotextile Fabric	SY	44
Detention Pond - Construction Phase 1A	432	6" Dia. Rubble Rip Rap Apron 12" Thick	CY	14
Storm Drainage Improvements - Construction Phase 1A	302.1	Area "Y" Inlet (Complete) 4'x4'x4'	EA	1
Storm Drainage Improvements - Construction Phase 1A	403.1	Junction Box (Complete) 4'x4'x4'	EA	1
SW3P - Construction Phase 1	540.9	Silt Fence	LF	3387
Additional Parking - Construction Phase 2B	307.1	Concrete Structure (Car Stops)	EA	26
Demolition	103.4	Remove Misc. Concrete (Bollard, Headwall, & Apron Removal)	EA	15
Demolition	507	Chain Link Fence Removal	LF	28
Misc.	9003.1	Bollards	EA	24
Misc.	525.1	2'x12' Jersey Barriers	LF	24
Misc.	520.1	Hydromulching (Residential or Commercial)	SY	21552
Misc.	535	4-inch Wide Thermoplastic White Line (DASHED)	LF	5,582
Misc.	535	4-inch Wide Thermoplastic White Line (SOLID)	LF	15,172
Misc.	535	4-inch Wide Thermoplastic Yellow Line (SOLID)	LF	574
Misc.	535	12-inch Wide Thermoplastic White Stop Bar	LF	304
Misc.		2" Mexican Sycamore	EA	5
Misc.	515	Topsoil	CY	5

Misc.		Install Quick Coupler	EA	1
Misc.	658	MBGR Install Delineator Assemblies	EA	55
Misc.	531	Existing Sign Relocation	EA	1
Misc.	506	Concrete Retaining Wall (Combination Type) (20 < x < 50 CY)	CY	31
Misc.	507.5	Temporary Access Gate (Vehicular Opening)	LS	1

### **LEGEND OF CHANGES:**

GREEN = Deleted item (entirely)

YELLOW = NEW LINE ITEM

LITE BLUE = Modified Description, no change to QTY or UNIT

GRAY w/RED TEXT = QTY Change or UNITS