

**EXHIBIT “F”**  
**Supplemental Agreement Form**

THE STATE OF TEXAS   §  
  §  
COUNTY OF HIDALGO   §

**SUPPLEMENTAL AGREEMENT NO. 4**  
**TO AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES**  
**C-20-183-07-21**

THIS **SUPPLEMENTAL AGREEMENT** is made pursuant to the terms and conditions of Article 8 of the Agreement made by and between **HIDALGO COUNTY**, acting herein by and through the **Commissioner’s Court**, hereinafter called the “**Owner**”, and **SAMES, Inc.**, Professional Engineers of, McAllen, Texas, hereinafter called the “**Engineer**”.

**WITNESSETH**

**WHEREAS**, the **Owner** and the **Engineer** executed the **Agreement No. C-21-183-07-21** on the day of July 21, 2020 concerning Professional Engineering Services for Professional Engineering Services for Construction of Testing/Bio-Safety Laboratory Facility;

**WHEREAS**, on the 21 day of July 2020, **Owner** authorized a Project Specific Work Authorization for Professional Engineering Services for Construction of Testing/Bio-Safety Laboratory Facility (hereinafter referred to as the “**Project**”); and

**WHEREAS**, on or about June 1, 2021, **Engineer** provided to **Owner** a project related Scope of Services, Work Schedule and Cost proposed for the Testing/Bio-Safety Laboratory Facility – Canopy Cover over an existing parking area (south of the new parking lot), which were duly authorized for work to commence by and through Work Authorization # 2; and

**WHEREAS**, Article 8., subsections (2) and (3) of the **Agreement** permits the terms to be amended by supplemental agreement if the **Owner** determines that there has been a significant change in the scope, complexity or character of the service to be performed by the **Engineer**, and/or for any other reason agreeable to the **Owner** and the **Engineer**;

**WHEREAS**, it has become necessary to amend the **Agreement**, by and through Work Authorization #2, and supplement, revise, modify, and/or update the initial scope of work outlined by the **Engineer** for the Testing/Bio-Safety Laboratory Facility – Canopy Cover over an existing parking area (south of the new parking lot), in order to include additional engineering services and incorporate continued construction services through completion of the project by the **Engineer**;

**NOW, THEREFORE**, in consideration of the mutual covenants provided below, the **Owner** and the **Engineer** agree that said Agreement is amended as follows:

- I. Work Authorization #2 is supplemented, revised, modified, and/or updated to include Attachment A for added engineering and construction Scope of Services to be provided by **Engineer**, and incorporating Attachment B for Revised Plans specifications or requirements provided by the **Engineer**, and at no additional cost to the **Owner**.
- II. Work Authorization #2 is revised, modified, and/or updated to include Attachment C Project Schedule for additional services to be provided by **Engineer** for the Canopy Cover through completion of the project and at no additional cost to the **Owner**.
- III. **All other provisions are unchanged and remain in full force and effect.**

**WITNESS WHEREOF**, the Engineer and the Owner have caused this Supplemental Agreement to the Agreement for Professional Services to be executed as of the 16 day of April, 2024.

**APPROVED BY COMMISSIONERS' COURT ON APRIL 30, 2024.**

**Agenda Item No. 95069**

**Executive Office:** \_\_\_\_\_

**ENGINEER:  
SAMES, INC.**

**COUNTY:  
COUNTY OF HIDALGO**

\_\_\_\_\_  
Samuel D. Maldonado, CEO

\_\_\_\_\_  
Hon. Richard F. Cortez, County Judge

**ATTEST:**

\_\_\_\_\_  
Arturo Guajardo, Jr., County Clerk

**ATTACHMENTS:**

**SUPPLEMENTAL SIGNATURES:**

**Attachment A – Letter and Scope of Services**

**Attachment B – Revised Plans**

**Attachment C – Project Schedule**



# **ATTACHMENT A**

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## **LETTER AND SCOPE OF SERVICES**

## Attachment "A"

### SCOPE OF SERVICES TO BE PROVIDED BY ENGINEER

As per our understanding of the requirements for this project, SAMES, Inc. will be providing Civil Engineering Services and Construction Services for the south parking lot canopy design and construction modifications on behalf of the County of Hidalgo. Such services will follow the state of Texas and the City of Edinburg Design Standards.

- I. The work to be furnished under this Authorization for Professional and Construction Services related to the additional development of the property are detailed as follows (this list is not intended to be comprehensive):
  - A. **Engineering Services** – services scope of work include;
    - a. Revision to current construction plans to incorporate required canopy design modifications. Such work shall include revision following sheets, at a minimum,
      - Master Site Plan
      - Foundation Plan and Details
      - Canopy Repair Plan and Details
    - b. Continue Construction Administration to include monthly site visits, review and respond to contractor RFIs and Change Orders, attend final walk-throughs with Owner, Contractor, and City
  - B. **Construction Services** – services scope of work include;
    - a. SAMES will retain a Sub-Contractor to perform all remaining construction modifications required to fulfill the Testing/Bio Safety Laboratory Facility Project for the south parking lot canopy installations. Remaining scope of work to be confirmed is as follows (this list is not comprehensive):
      - Demolition
      - Fabrication and Assembly of Canopy Modifications
      - Footing/Foundation Construction
      - Canopy Structure and Roofing installation
      - Parking lot crack seal and seal coat
      - Parking lot restriping
      - Parking lot lighting
      - West fence relocation
    - b. Refer to "Attachment B" – Canopy Design and Civil Engineering Construction Documents for latest Scope of Work to be performed by Contractor.
      - Final Contract Amount to engage a Sub-Contractor has not been finalized. SAMES will adhere to Hidalgo County procurement requirements for this engagement.
    - c. Bi-Weekly OAC Meetings will be held for construction progress and review of any open RFI's, Submittals, or Field Issues that arise during the construction period.

C. **Exceptions:**

The following services are not considered to be part of SAMES, Inc. "Scope of Services". Any item listed or not listed shall be considered an additional service and will be negotiated at the time of request.

- a. The existing topographic data previously completed by SAMES, Inc. will be utilized, therefore, any re-doing of boundary and topographic surveying will be billed as an additional service.
- b. Any/All permit/variance fees are to be paid by the Client
- c. Title commitment reports and/or letters
- d. Subsurface utility excavation to verify exact location of buried utilities.
- e. Geotechnical soil survey to encompass subsurface investigation for pavement design recommendations
- f. Design of off-site improvements including street, drainage, utility extensions and/or obtainment of off-site easements for said improvements. If required, additional surveying and easement descriptions for these services will be billed under an additional service agreement.
- g. All necessary legal services for agreements, easements and other items will be provided directly by the owner/client.
- h. Advertising notice fees (if required) to be paid by owner/client
- i. Construction Staking
- j. Construction Materials Engineer testing to be performed during construction and paid by the owner/client
- k. Preparation of SWPPP for TCEQ TPDES General Permit TXR150000.
- l. Storm Water Pollution Prevention Plan Monitoring during construction

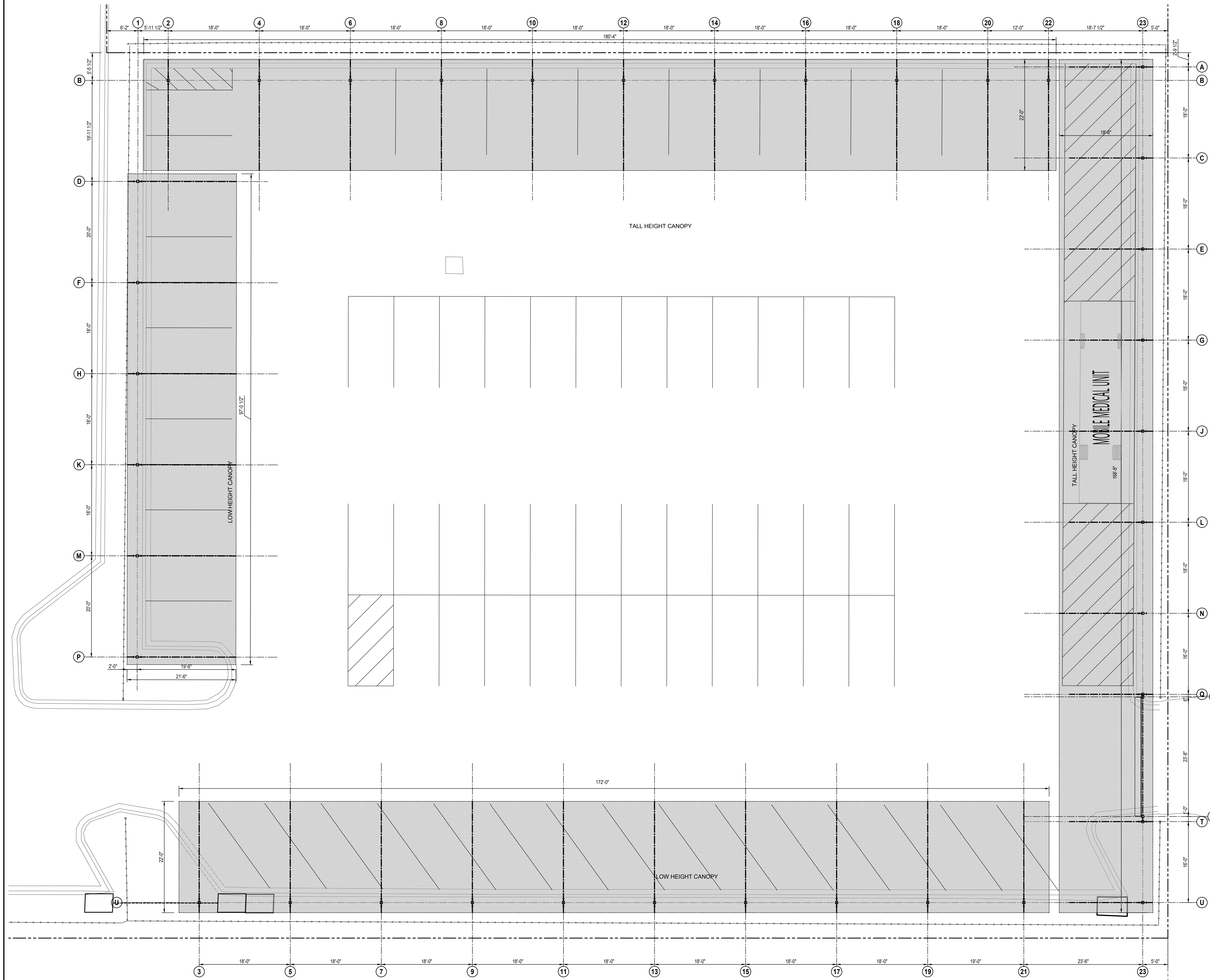


# **ATTACHMENT B**

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## **REVISED PLANS**

**CDBG-CV H.C. HEALTH FACILITY  
 IMPROVEMENTS  
 COUNTY OF HIDALGO**  
 S. 25th AVE., EDINBURG, TEXAS 78542



REVISIONS		
REV.	DESCRIPTION	DATE

This drawing and the details on it are the sole property of the Engineer and must be used for this specific project only. It shall not be loaned, copied or reproduced, in whole or in part, for any other project or purpose without the written consent of the Engineer.

"THESE DRAWINGS ARE INTENDED FOR REVIEW ONLY UNDER THE AUTHORITY OF SAUL D. MALDONADO, P.E. NUMBER 10000. IT IS NOT TO BE USED FOR PERMITTING OR CONSTRUCTION PURPOSES."

**FOR REVIEW ONLY**  
 JANUARY 05, 2023

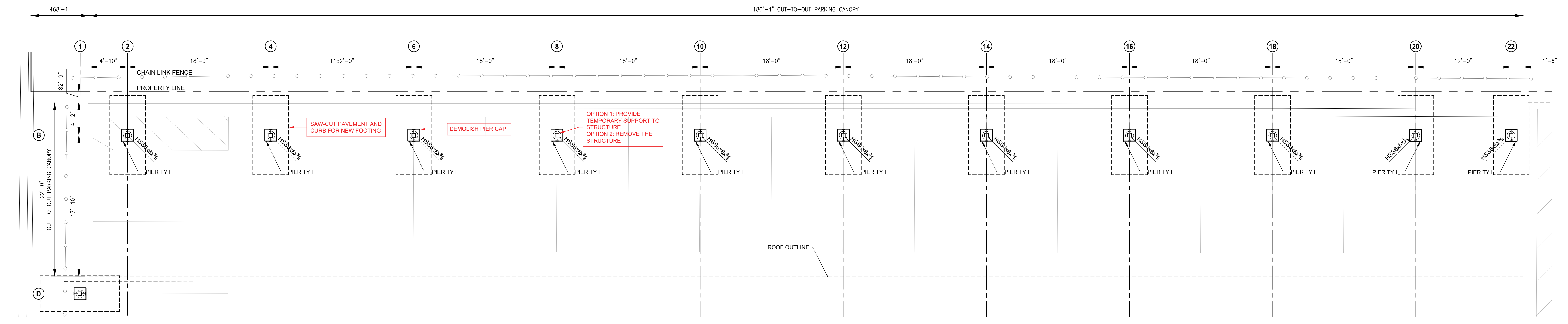
SAMES, INC.  
 TEXAS REGISTERED ENGINEERING FIRM  
 P-10602

The Professional Engineer shall defend to the best of his ability any to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by the Engineer, and the Engineer expressly disclaims any and all responsibility for such plans, drawings or documents not exhibiting this seal.

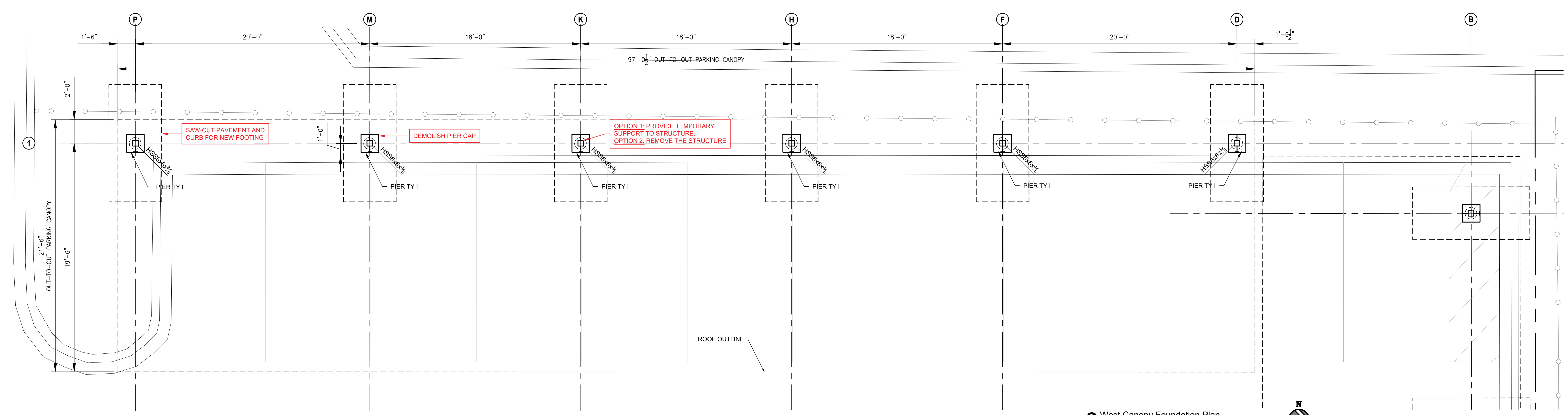
PROJ. NO: ENG 21.014  
 DATE: 12.31.2021  
 SCALE: AS NOTED  
 SHEET NAME:

MASTER PLAN

SHEET NUMBER:  
**S1.0**



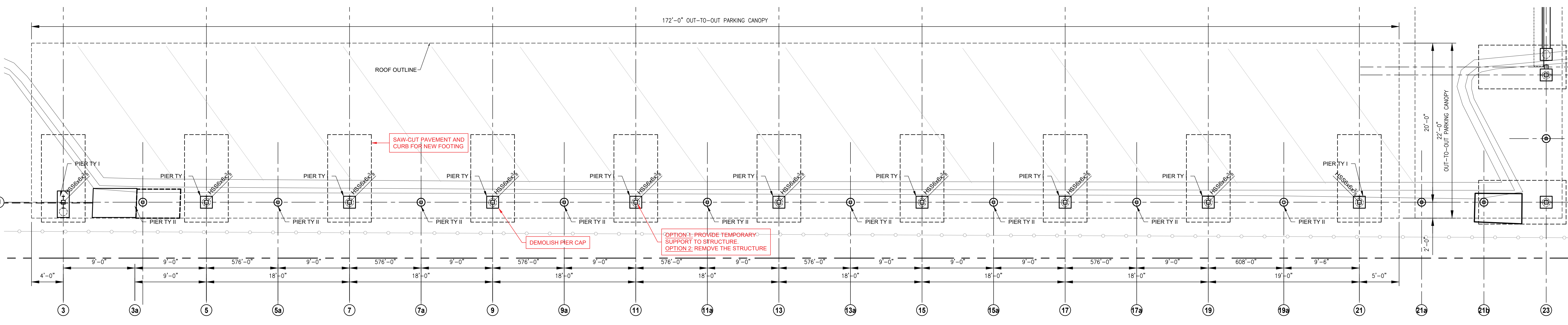
**1 North Canopy Foundation Plan**  
 SCALE: 1/4" = 1'-0"



**2 West Canopy Foundation Plan**  
 SCALE: 1/4" = 1'-0"

**SCOPE OF CANOPIES IMPROVEMENTS:**

- OPTION 1: PROVIDE TEMPORARY SUPPORT TO EXISTING STRUCTURAL MEMBERS THROUGHOUT THE DURATION OF IMPROVEMENTS. OPTION 2: REMOVE THE STEEL STRUCTURE WHILE ADDING NEW CONCRETE FOOTING TO THE FOUNDATION. PROVIDE THE MOST EFFICIENT AND ECONOMICAL OPTION.
- DEMOLISH THE CONCRETE PIER CAP 48" BELOW EXISTING PIER CAP. EXISTING REBARS TO REMAIN.
- SAW-CUT ASPHALT PAVING AND CONCRETE CURB AS REQUIRED FOR NEW FLAT FOOTINGS. REFER TO STRUCTURAL REPAIR PLANS.
- PROVIDE REINFORCING PER STRUCTURAL REPAIR PLANS, INCLUDING NEW ANCHORS, AND POUR CONCRETE.
- REDO ASPHALT PAVING AND CURB AS NEEDED.
- REMOVE STEEL BASE PLATE FROM ALL COLUMNS. WELD NEW BASE PLATE AS INDICATED ON STRUCTURAL REPAIR PLANS.
- OPTION 1: ADD "WT" MEMBERS AS SHOWN ON STRUCTURAL REPAIR PLANS TO REINFORCE THE COLUMNS. OPTION 2: PROVIDE A NEW W18X40 STEEL COLUMN IN LIEU OF ADDING WT MEMBERS.
- REINSTALL THE CANOPIES STRUCTURE, INCLUDING PURLINS AND METAL PANELS.
- CONTRACTOR SHALL PROVIDE A COST BREAKDOWN PER THIS LIST.



**3 South Canopy Foundation Plan**  
 SCALE: 1/4" = 1'-0"

**REVISIONS**

REV.	DESCRIPTION	DATE

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**FOR REVIEW ONLY**  
 JANUARY 05, 2023

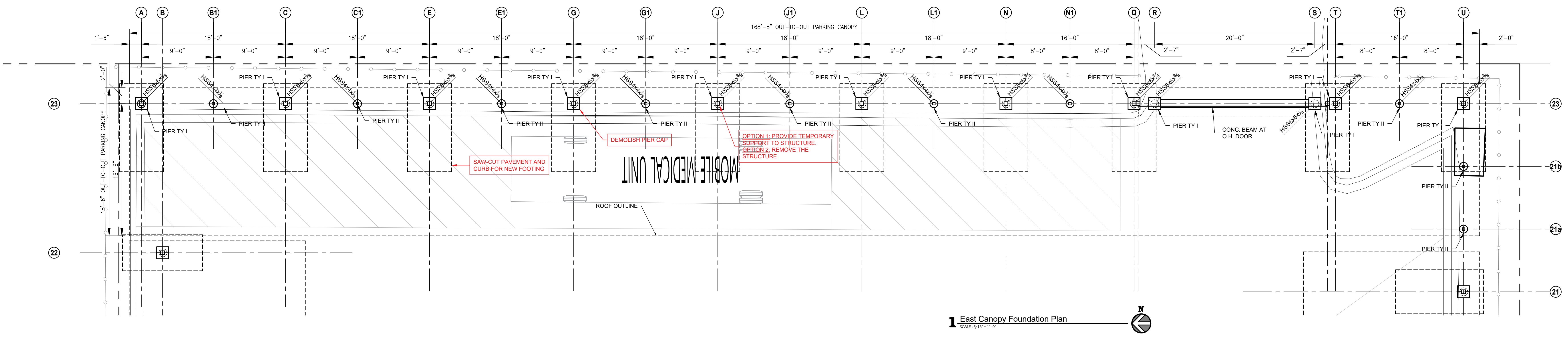
SAMES, INC.  
 TEXAS REGISTERED ENGINEERING FIRM  
 E-10922

The Professional Engineers and affixed to this sheet, apply only to the material and items shown on this sheet and do not constitute a warranty or any other express or implied warranty, or any other responsibility for such plans, drawings or documents not exhibiting the seal.

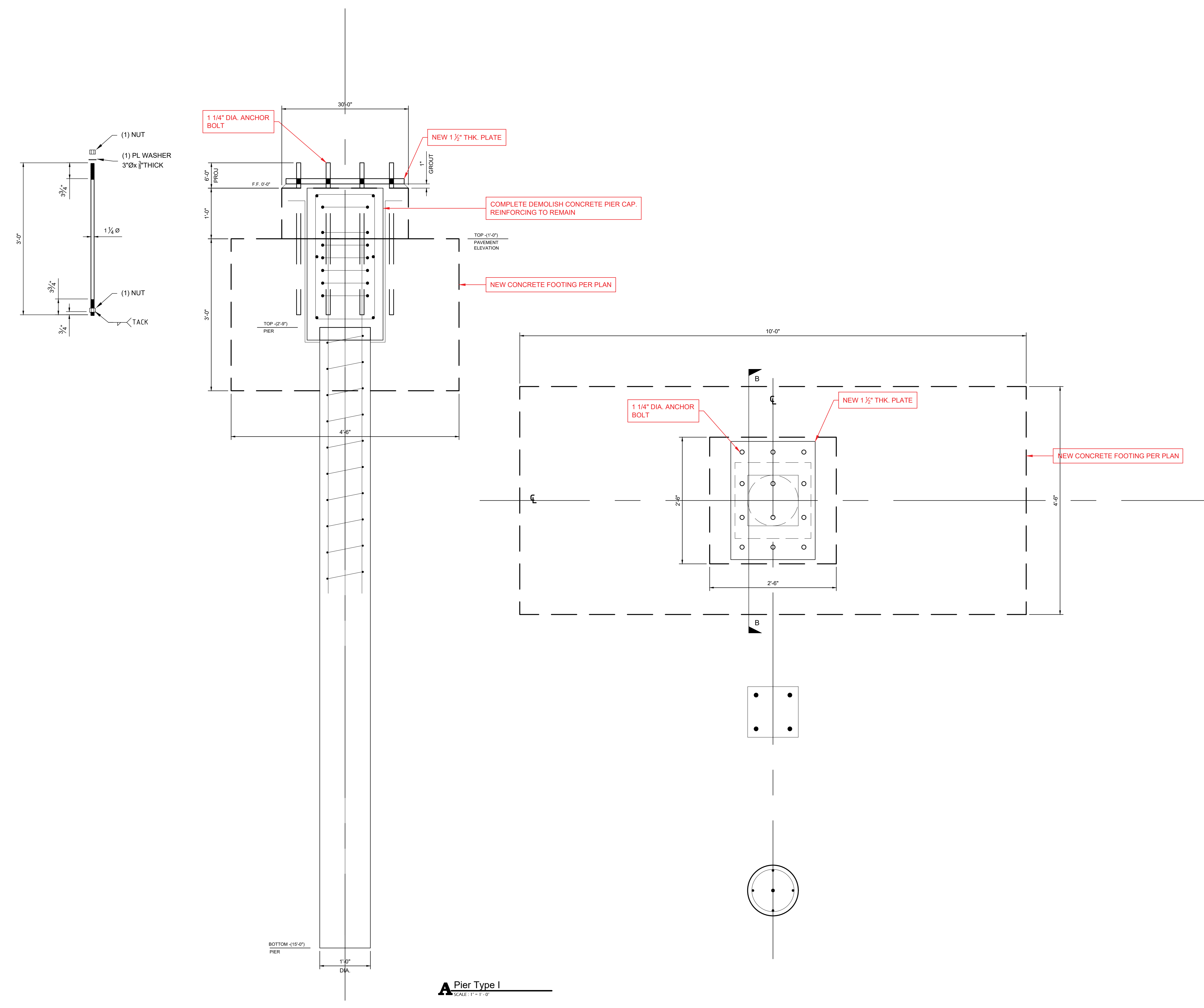
PROJ. NO.: ENG 21 014  
 DATE: 12.31.2021  
 SCALE: AS NOTED

**SORBY NORTON SOUTH CANOPIES  
 FOUNDATION PLANS**

**S1.1**  
 SHEET NUMBER:



**1 East Canopy Foundation Plan**  
 SCALE: 1/8" = 1'-0"



**Pier Type I**  
 SCALE: 1/8" = 1'-0"

REVISIONS		
REV.	DESCRIPTION	DATE

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**FOR REVIEW ONLY**  
 JANUARY 05, 2023

SAMES, INC.  
 TEXAS REGISTERED ENGINEERING FIRM  
 P-1092

The Professional Engineers and allied to this sheet agree only to the extent and terms shown on this not withstanding this fact that not be considered as an endorsement or approval of the work or documents prepared by the Engineer, and the Engineer expressly disclaims any and all responsibility for such plans, drawings or documents not withstanding this fact.

PROJ. NO.: ENG 21 014  
 DATE: 12.31.2021  
 SCALE: AS NOTED  
 SHEET NAME:

FOUNDATION DETAILS

SHEET NUMBER:  
**S1.2**

**GENERAL NOTES**

- THIS CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING SAFETY NETS, SUPPORT AND BRACING FOR CRANES, POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW ITEMS.
- ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING BUILDING CODES AND REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT AND ENGINEER IN WRITING. ANY OMISSION OR CONFLICT WITH THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- IN CASE OF CONFLICT, NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
- WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS, WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION.
- EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER, IN WRITING OF ANY WORK CALLED OUT ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS INDICATED.
- THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS, THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO INSTALLATION.
- THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION THEREOF, DURING CONSTRUCTION.
- NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE ENGINEER.
- ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, ADDITIONAL COSTS (INCLUDING REDESIGN BY THE ENGINEER), AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS MAY IMPACT.
- THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT THE SITE BEGINS.
- ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL BE REFERRED TO THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROJECT ANY EXISTING UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES PRIOR TO BEGINNING ANY WORK.
- PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

**DESIGN CRITERIA**

- DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED UPON THE FOLLOWING CRITERIA:
- CODE: IBC 2018
  - LATERAL LOADS
    - WIND SPEED (V<sup>3</sup> S): 135 MPH
    - EXPOSURE CATEGORY: C
    - IMPORTANCE CATEGORY: 1.0
    - BUILDING CATEGORY: II
  - SUBSURFACE INFORMATION
    - PREPARED BY: n/a
    - PROJECT NO.: n/a
    - DATE: n/a
  - SHALLOW FOUNDATION
    - MINIMUM FOOTING DEPTH: 24 INCHES
    - MINIMUM FOOTING WIDTH: 12 INCHES
    - ALLOWABLE BEARING PRESSURE (CONTINUOUS FOOTINGS): 1500 PSF

**ABBREVIATIONS**

- BOB BOTTOM OF BEAM
- CLR CLEAR
- CC Concrete Column
- DP Deep Pier
- (E) Existing
- F.V. Field Verify
- GB Grade Beam
- (H) Horizontal
- (N) New
- ns. not to scale
- n.s. Not to Scale
- P.T.D.F. Pressure Treated Douglas Fir
- (R) Remove
- SIM SIMILAR
- T&S TYPICAL AND SIMILAR
- (T) & (B) Top and Bottom
- TOB TOP OF BEAM
- T.O.W. Top of Wall
- TYP TYPICAL
- U.N.O. Unless Noted Otherwise
- (V) Vertical

**REINFORCING STEEL**

- BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1. GRADE 40 - #3 AND SMALLER GRADE 60 - #4 AND LARGER
- DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED.
- VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 192 BAR DIAMETERS NOR FOUR (4) FEET ON CENTER.
- WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185
- LAPS OF WELDED STEEL WIRE FABRIC AT SPLICES SHALL BE NOT LESS THAN 12 INCHES.
- WALLS, PLASTER, COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PLASTER, OR COLUMNS.
- BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- REINFORCING STEEL DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT. PROVIDE CONCRETE OR MASONRY CHAIRS AT 4'-0" O.C. MAX. (PLASTIC CHAIRS NOT ALLOWED).
- PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS.
- BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES.
- EXTEND SLAB REINFORCING STEEL PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL PARALLEL TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER BEAMS.
- PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE "Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS.
- ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB.
- WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
- WELDING OF REINFORCING STEEL, IF PERMITTED BY THE STRUCTURAL ENGINEER, SHALL BE PERFORMED IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE REINFORCING STEEL" ON THE AMERICAN WELDING SOCIETY, AWS D1.4:96 AS INCORPORATED IN CBC CHAPTER 19, AND BY CERTIFIED WELDERS QUALIFIED USING PROCEDURES CONTAINED THEREIN. E70XX ELECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT. REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON EQUIVALENT (C.E.) IS PERFORMED. THE C.E. OF REINFORCING STEEL SHALL BE CALCULATED FROM THE CHEMICAL COMPOSITION AS SHOWN IN THE MILL TEST REPORT. IF MILL TEST REPORTS ARE NOT AVAILABLE, A CHEMICAL ANALYSIS SHALL BE MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL NOT EXCEED 0.55 AS CALCULATED PER CBC CHAPTER 19. A COPY OF THE MILL TEST OF REINFORCING STEEL IN CONCRETE MEMBERS. (SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDING).
- CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.

EXPOSURE	MINIMUM COVER	TOLERANCE
DRILLED PIERS, FOOTINGS AND OTHER PRINCIPAL STRUCTURAL MEMBERS IN WHICH CONCRETE IS DEPOSITED AGAINST GROUND, WHERE CONCRETE SURFACES, AFTER REMOVAL OF FORMS, ARE EXPOSED TO WEATHER OR GROUND:	3"	3/8"
FOR BARS 5/8" IN DIAMETER	2"	1/4"
FOR BARS 3/8" OR LESS IN DIAMETER	1 1/2"	1/4"
WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER OR GROUND:		
FOR SLAB ON GRADE (FROM TOP OF SLAB)	1 1/2"	1/4"
FOR BEAMS, COLUMNS	1 1/2"	1/4"
FOR JOISTS AND SLABS	1"	1/8"

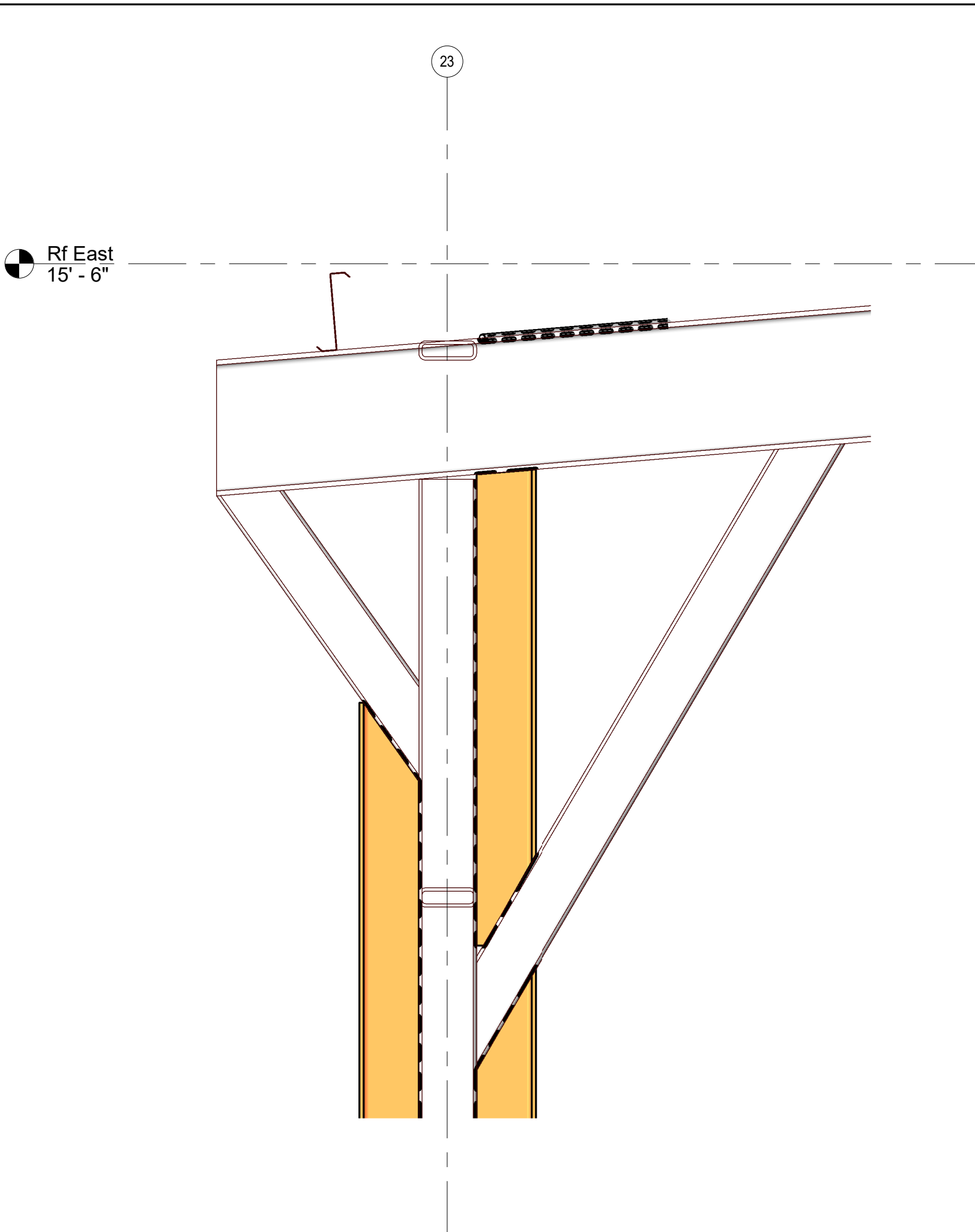
20. LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

MASONRY - GRADE 60: LAP 50 DIA. (30° MIN.)	GRADE 40: LAP 48 DIA. (24° MIN.)			
CONCRETE - LAP PER SCHEDULE BELOW				
BAR SPLICE LAP LENGTH IN CONCRETE				
BAR SIZE	f <sub>c</sub> = 2000 PSI	f <sub>c</sub> = 3000 PSI	f <sub>c</sub> = 4000 PSI	f <sub>c</sub> = 5000 PSI
#3	22	22	22	22
#4	29	29	29	29
#5	40	36	36	36
#6	57	48	43	43
#7	77	63	54	54
#8	100	82	71	71
#9	128	104	90	90
#10	162	132	115	115
#11	200	163	141	141

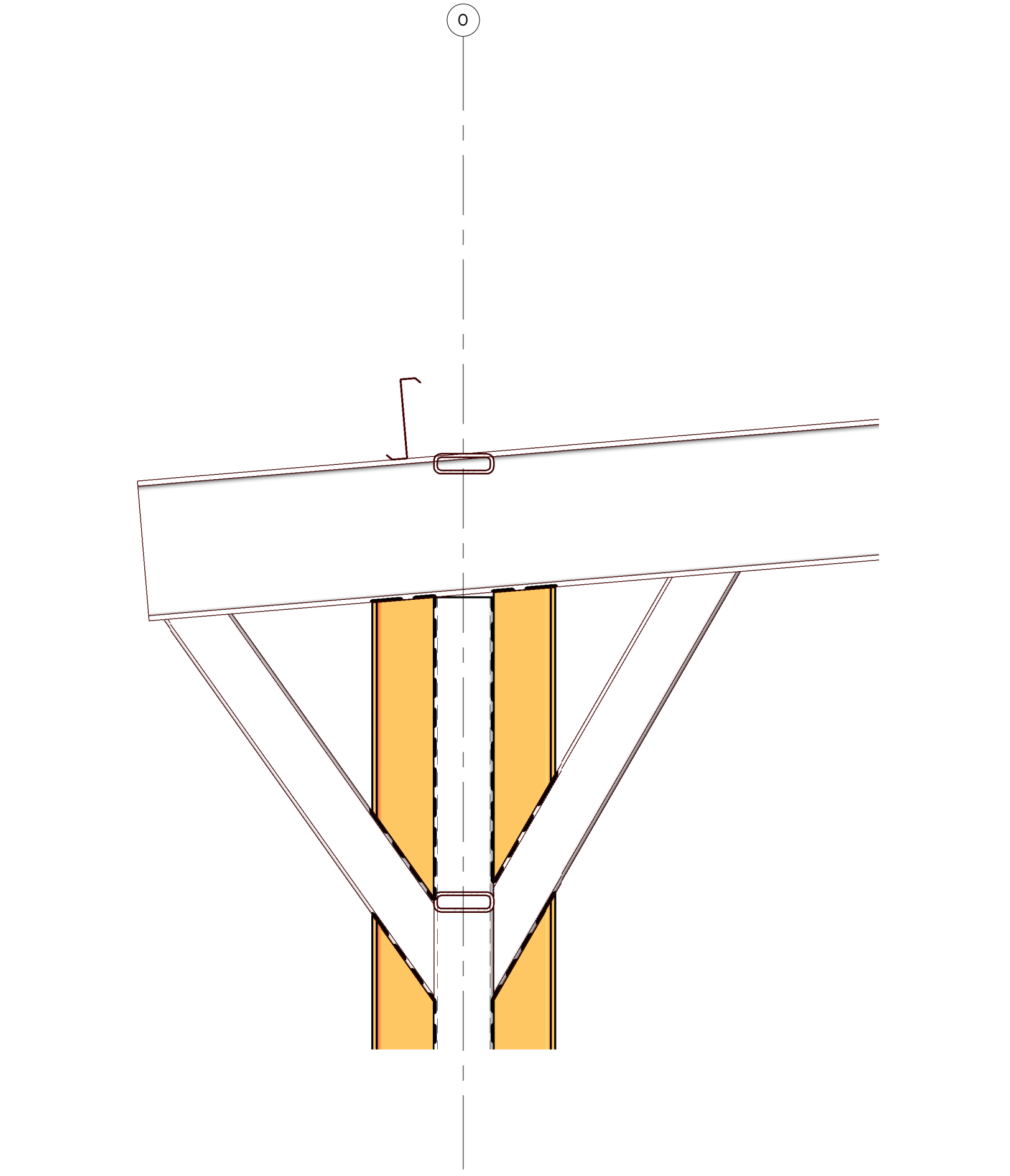
FOR WELDED WIRE FABRIC: SPACING OF WIRE PLUS 12".

Drawing List	
Sheet Number	Sheet Name
S101	General Notes
S201	North Carport
S202	East Carport
S203	South Carport
S204	West Carport
S401	Frame Elevations

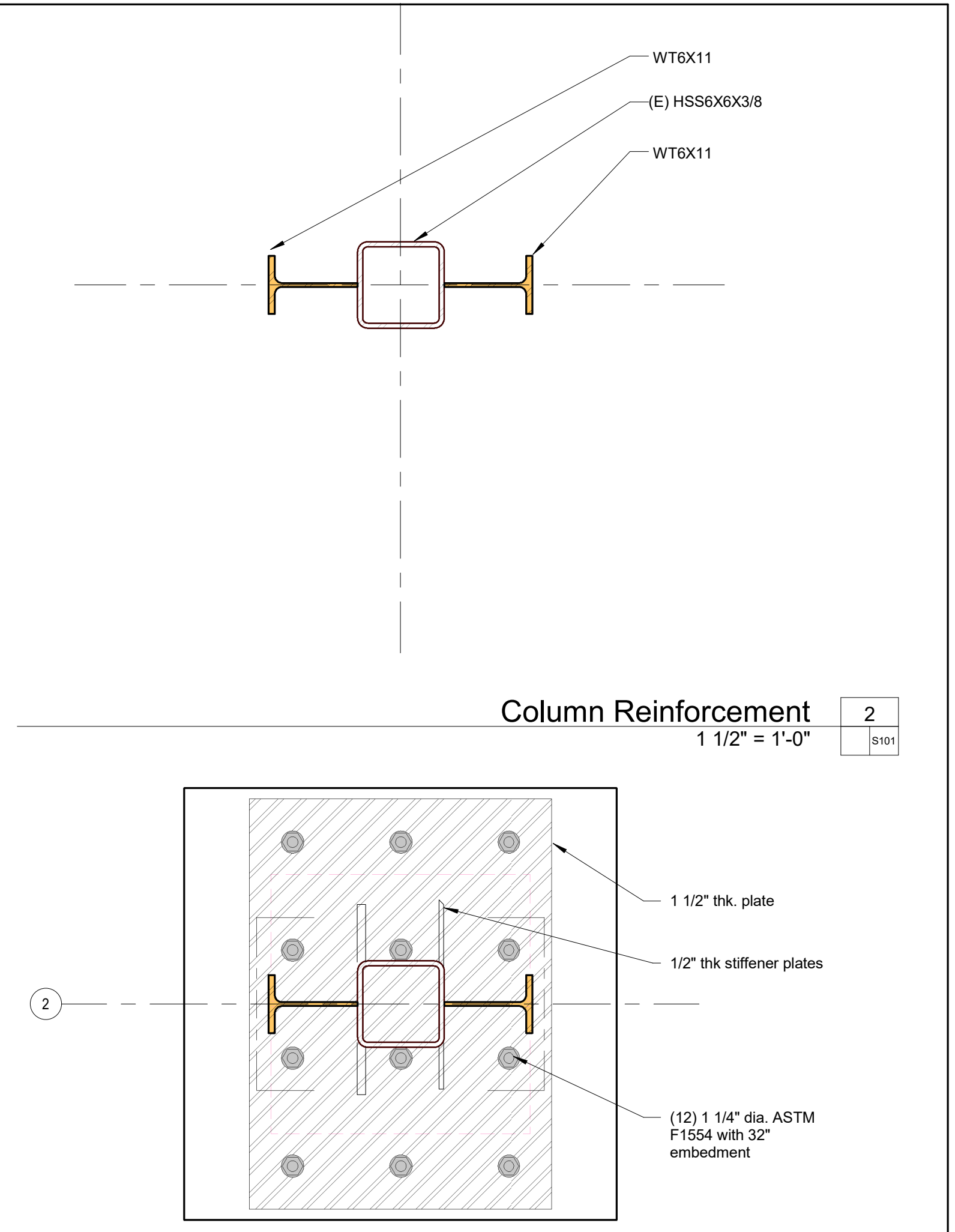
D:\Users\Simon.Solorio\OneDrive\Business\Folders\01 My Projects\2023 Solorio\23146 SAMES HCHD canopies\23146 SAMES HCHD canopies bidding.rvt  
 These drawings and related project instruments of service are the property of the Engineer and shall not be used for any other work except by agreement with the Engineer. Written dimensions take precedence over scaled dimensions and shall be verified in the field. Any discrepancy shall be brought to the attention of the Engineer prior to commencement of any work.  
 SA 23146-C-20-183-07-21  
 11 of 28



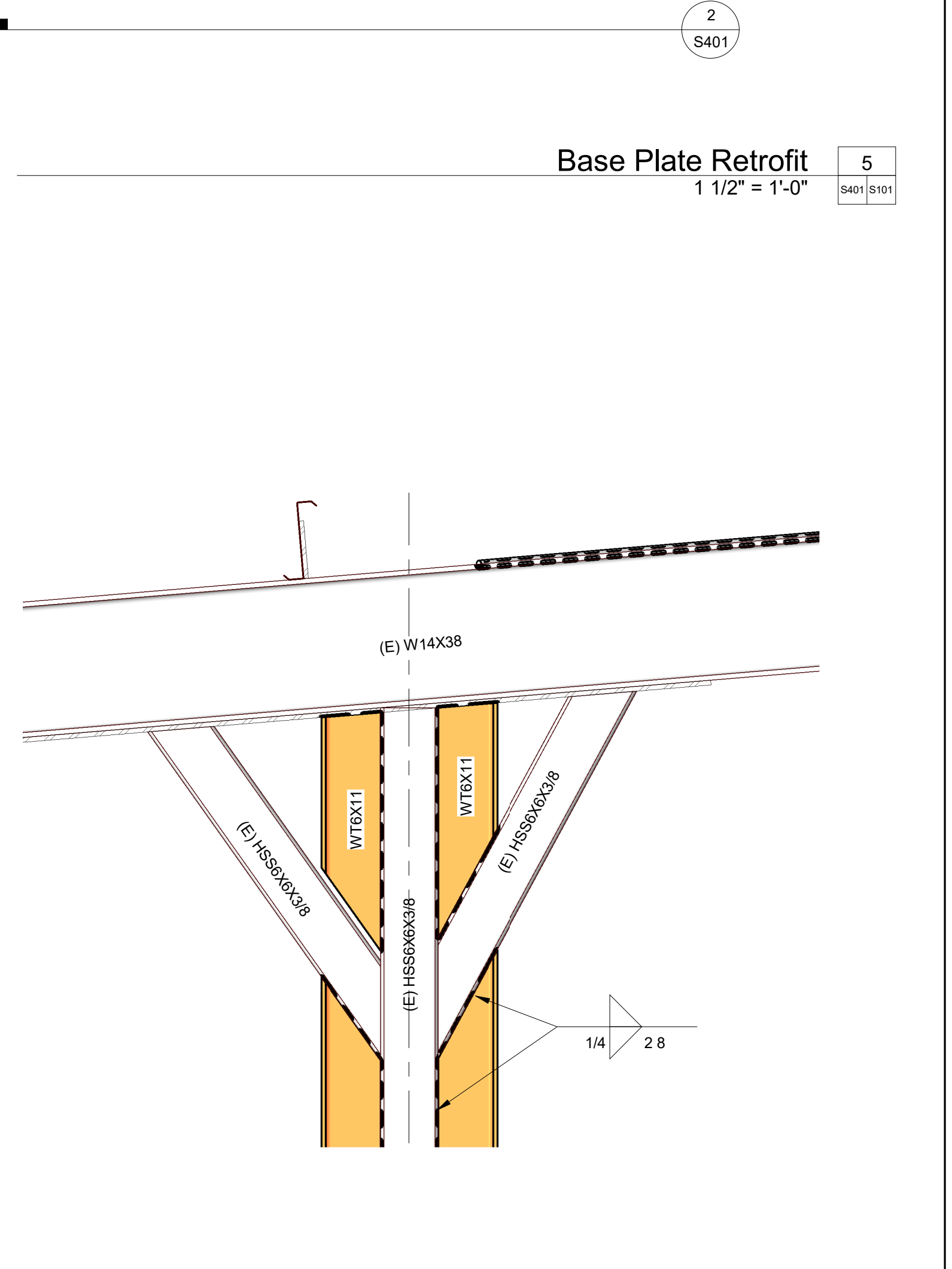
**Detail 7** 4  
1" = 1'-0" S202 | S101



**Retrofit Detail** 6  
1" = 1'-0" S203 | S101



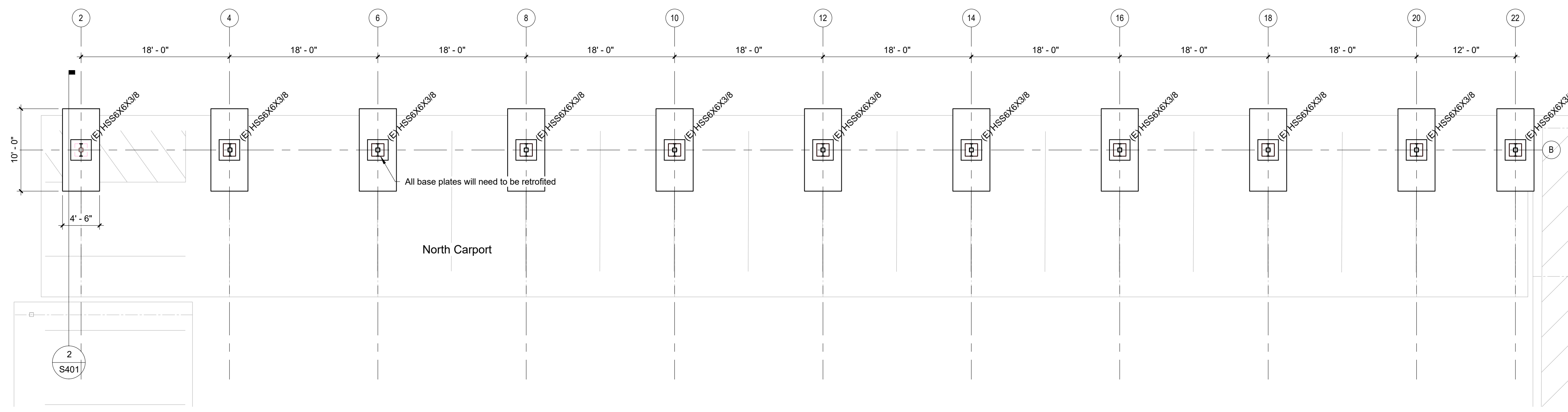
**Column Reinforcement** 2  
1 1/2" = 1'-0" S101



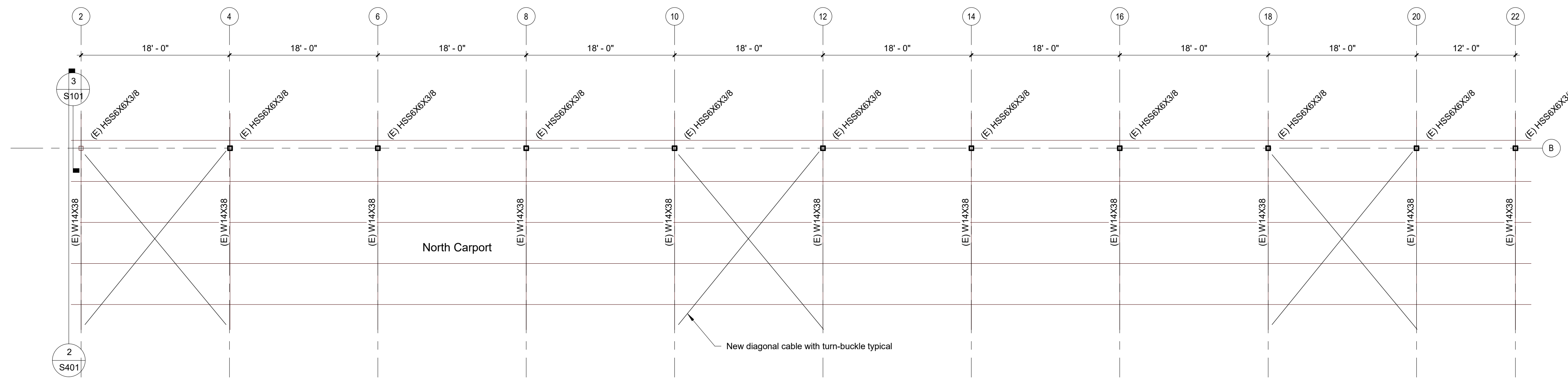
**Base Plate Retrofit** 5  
1 1/2" = 1'-0" S401 | S101

**Retrofit Detail** 3  
1" = 1'-0" S201 | S101

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 SA 161616  
 Professional Engineering Services for Construction of Hidalgo County Health Department Testing/Bio Safety Laboratory  
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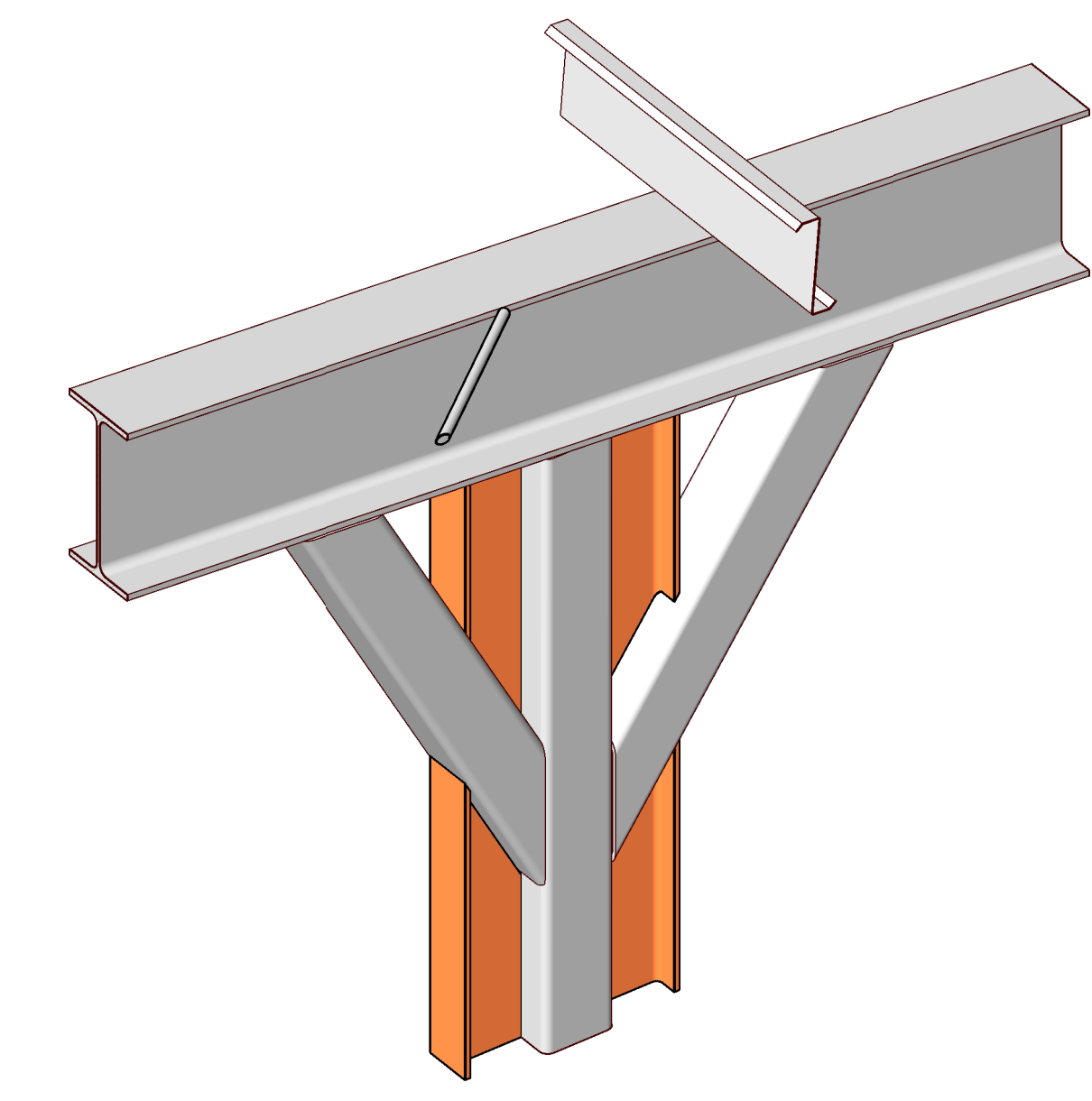


Foundation Plan - North Carport 1  
1/8" = 1'-0" S401 S201



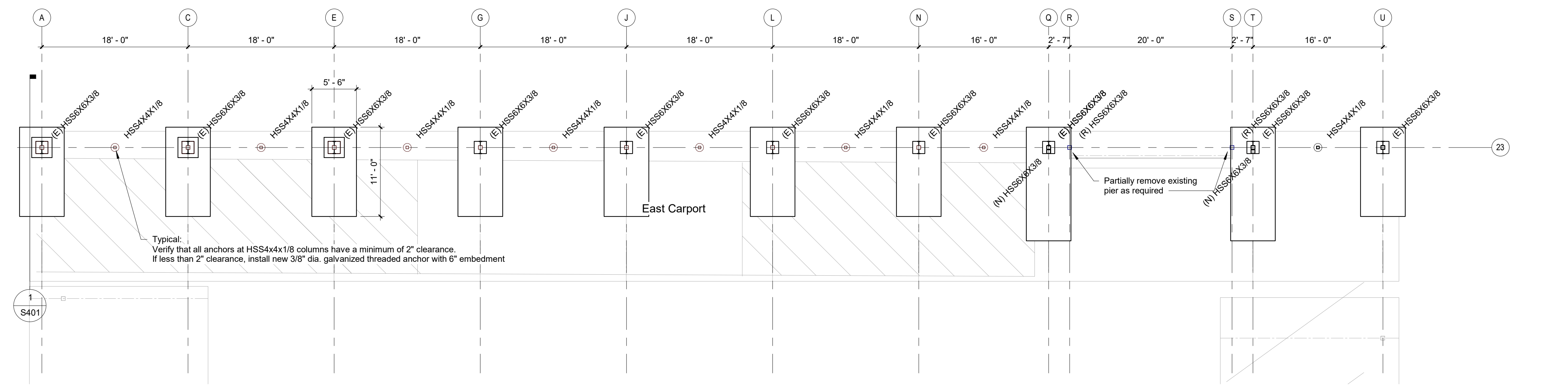
Roof Framing Plan - North Carport 2  
1/8" = 1'-0" S201

Structural Foundation Schedule								
Type	Length	Width	Elevation at Bottom	Reinforcing A Bar Quantity	Reinforcing A Bar Size	Reinforcing B Bar Quantity	Reinforcing B Bar Size	Thickness
(E) Pile cap	1' - 6"	1' - 6"	-3' - 0"					
CF4.5 x 10	10' - 0"	4' - 6"	-4' - 0"	5	6	11	6	3' - 0"
CF5.5 x 11	11' - 0"	5' - 6"	-4' - 0"	6	6	12	6	3' - 0"
CF5.5 x 14	14' - 0"	5' - 6"	-4' - 0"	6	6	15	6	3' - 0"
DP1.0	15' - 0"	1' - 0"	-20' - 0"					



Connection North 3  
S201

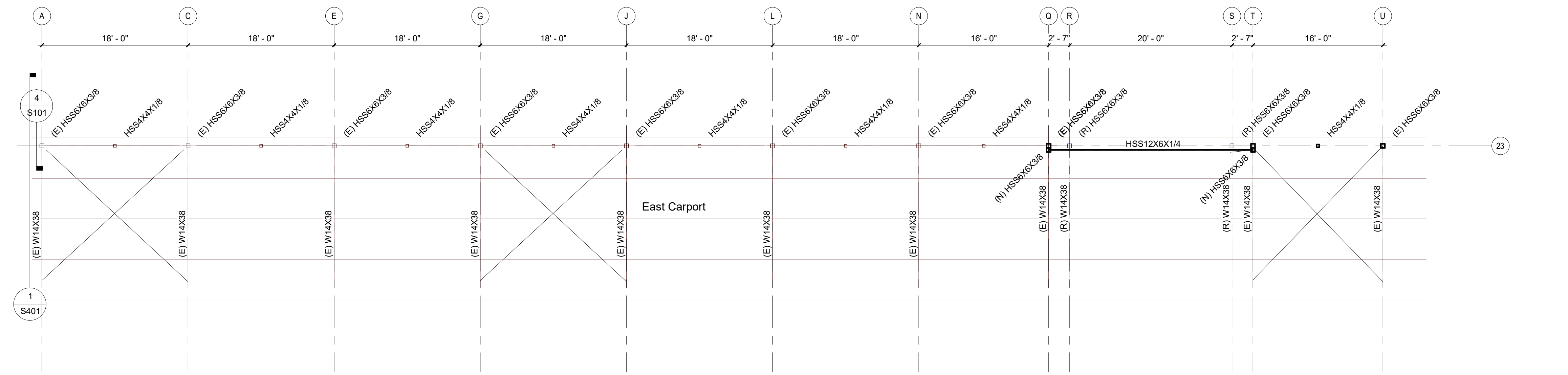
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 Professional Engineering Services for Construction of Hidalgo County Health Department Testing/Bio Safety Laboratory  
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Foundation Plan North Carport 

1
S401 S202

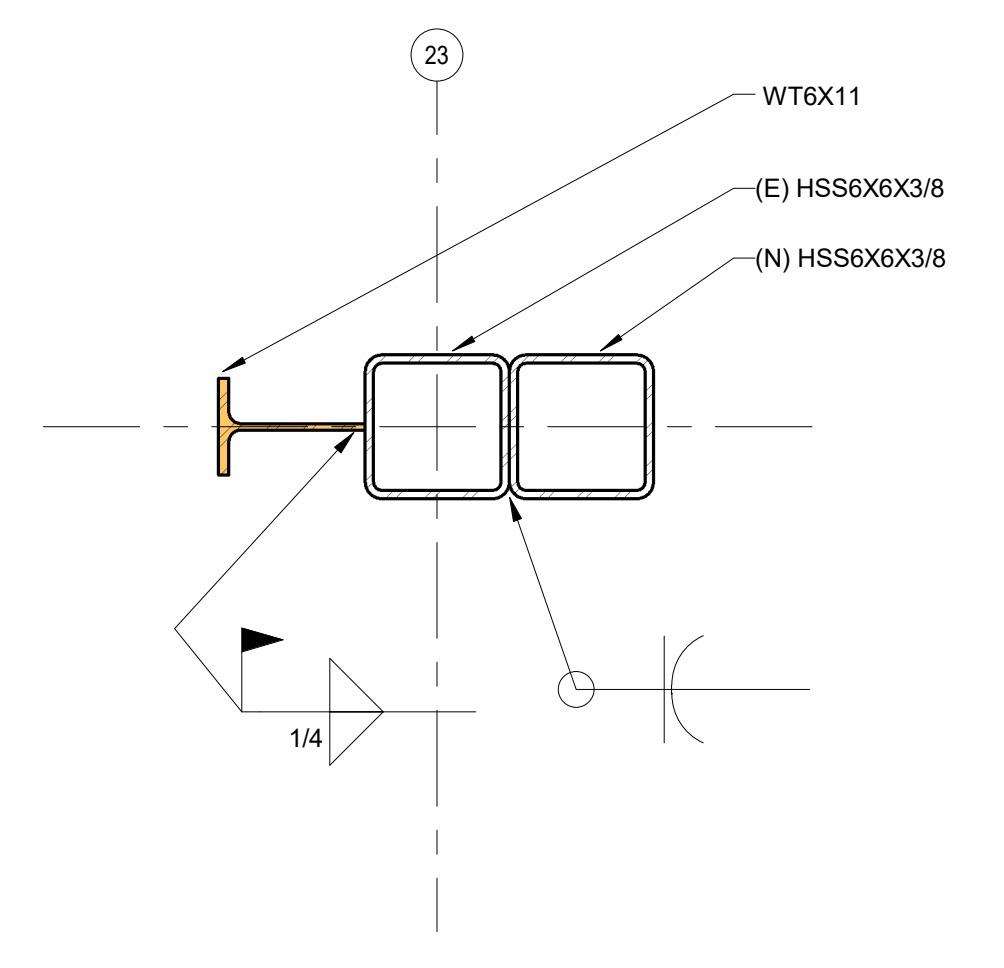
  
1/8" = 1'-0"



Roof Framing Plan - East Carport 

2
S202

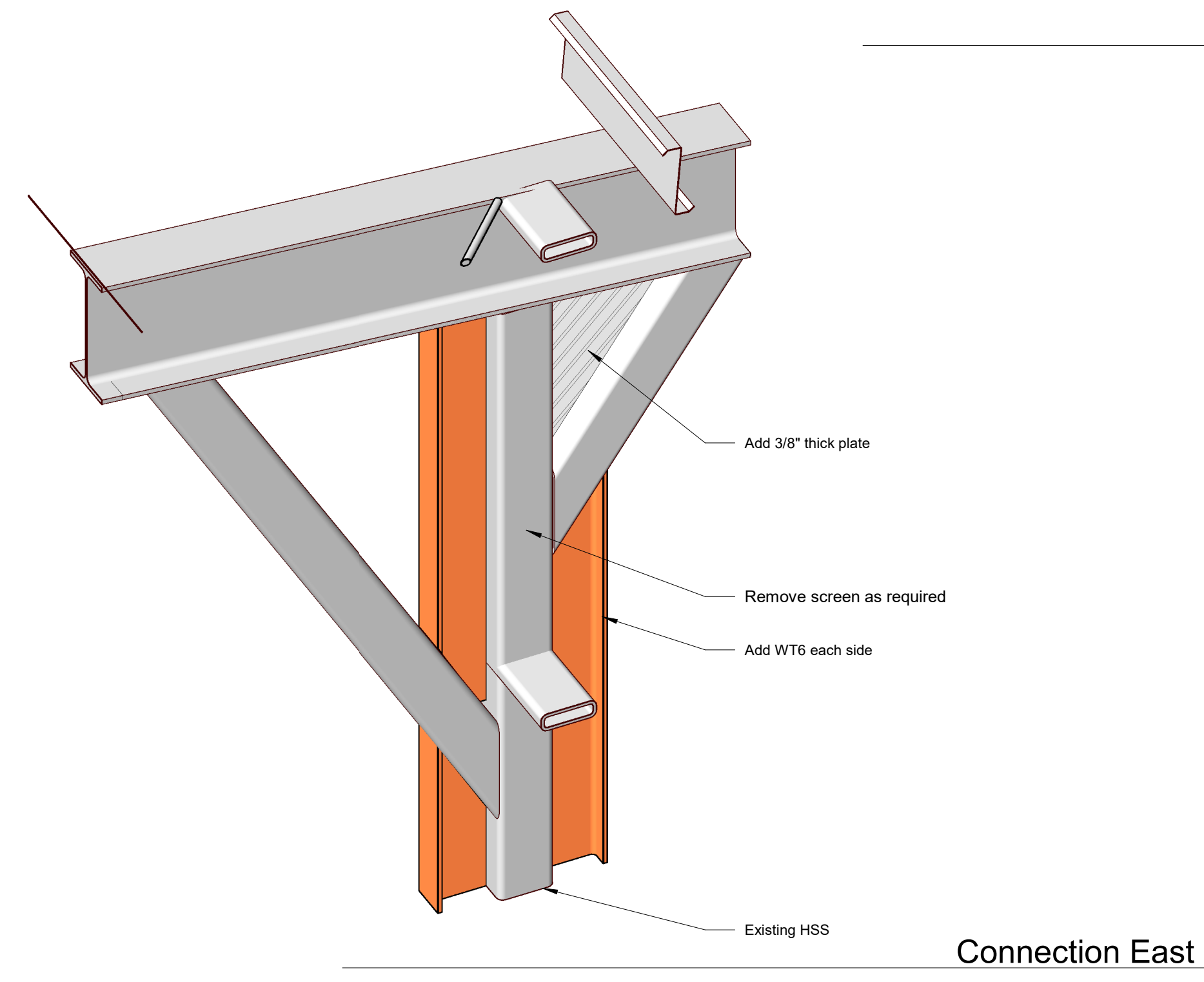
  
1/8" = 1'-0"



Column at Entrance, Gridline Q & T 

3
S202

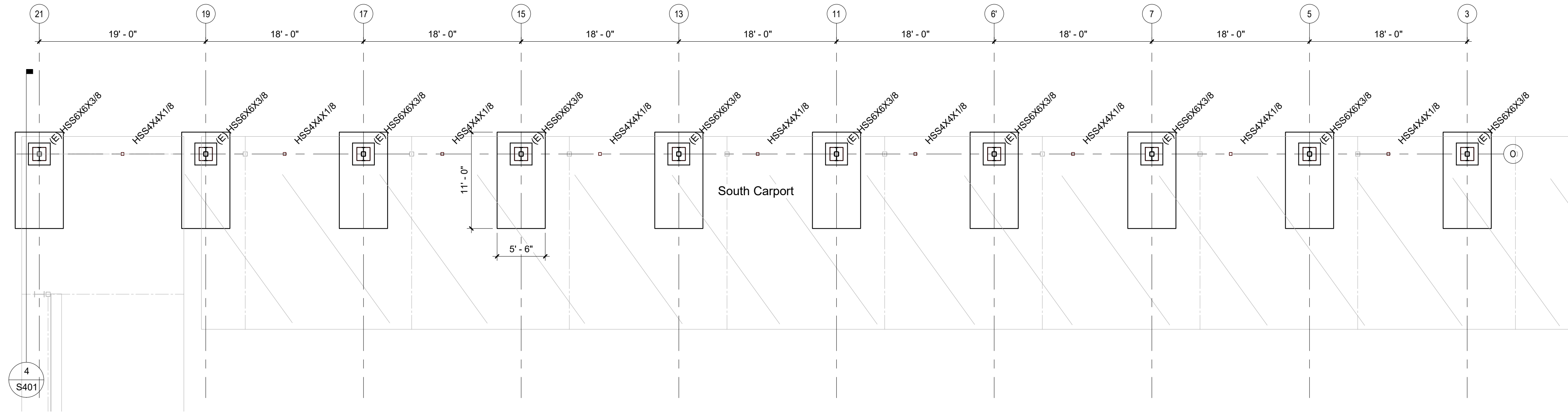
  
1 1/2" = 1'-0"



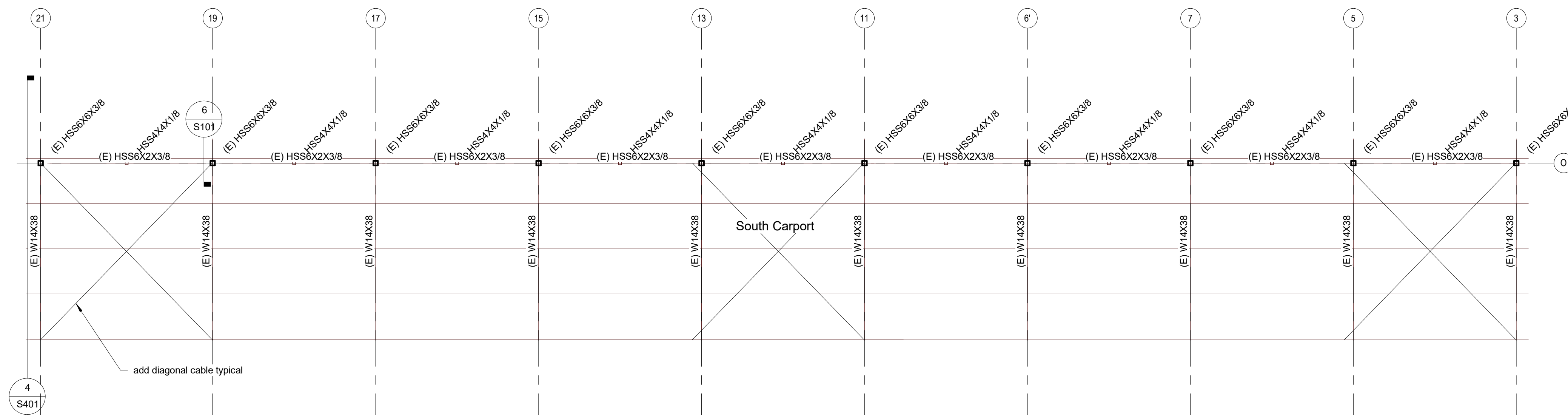
Connection East 

4
S202

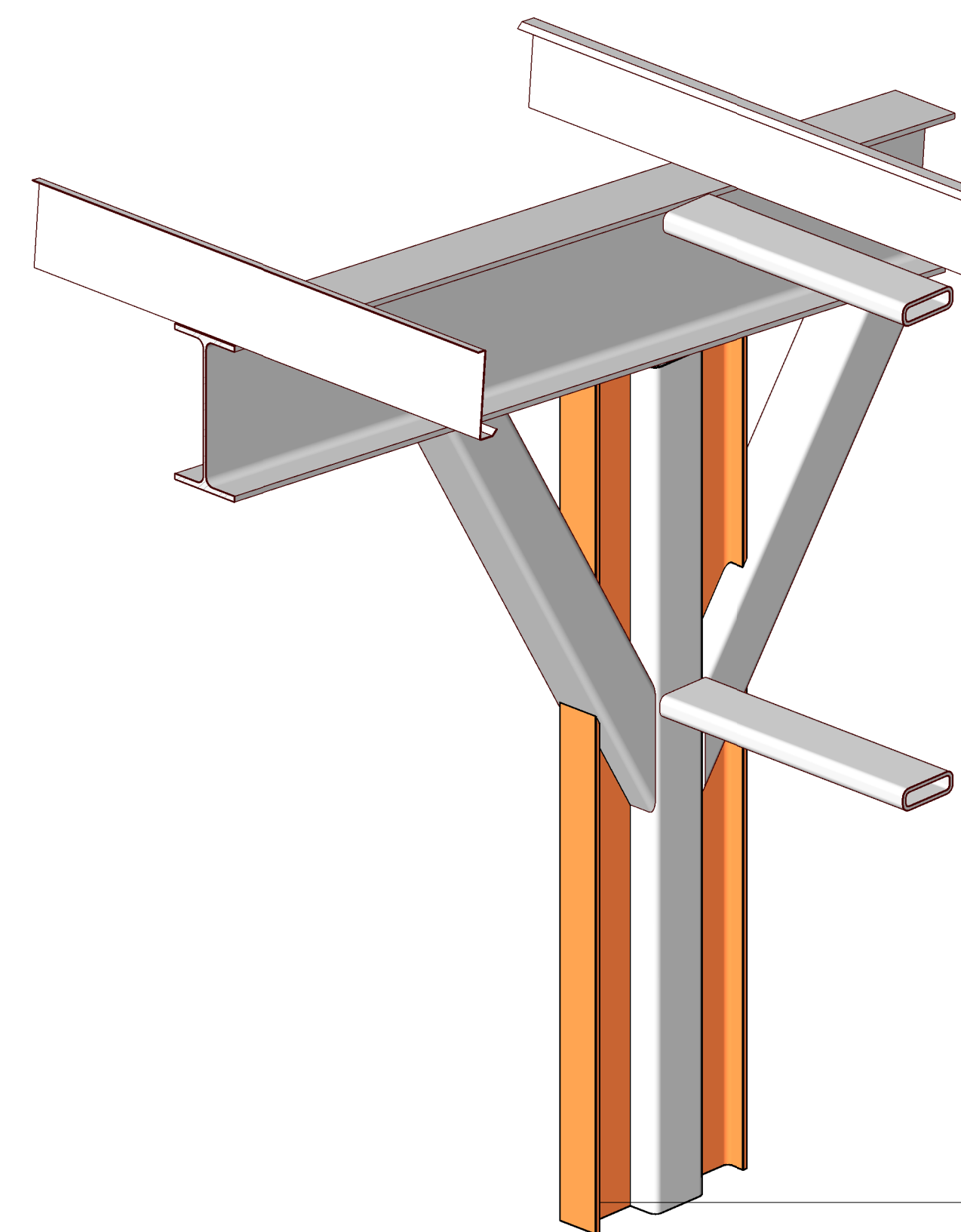
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Foundation Plan - South Carport 1  
 1/8" = 1'-0" S401 S203

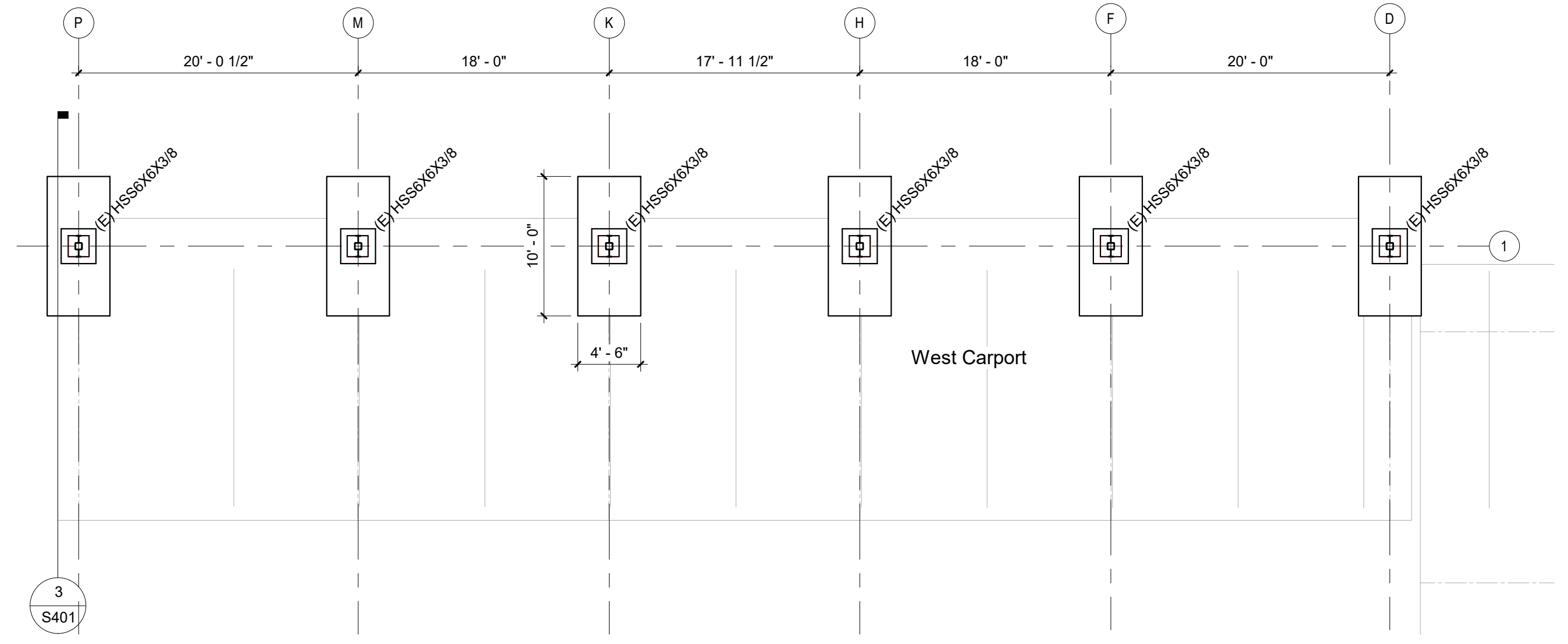


Roof Framing Plan - South Carport 2  
 1/8" = 1'-0" S203



Connection South 3  
S203

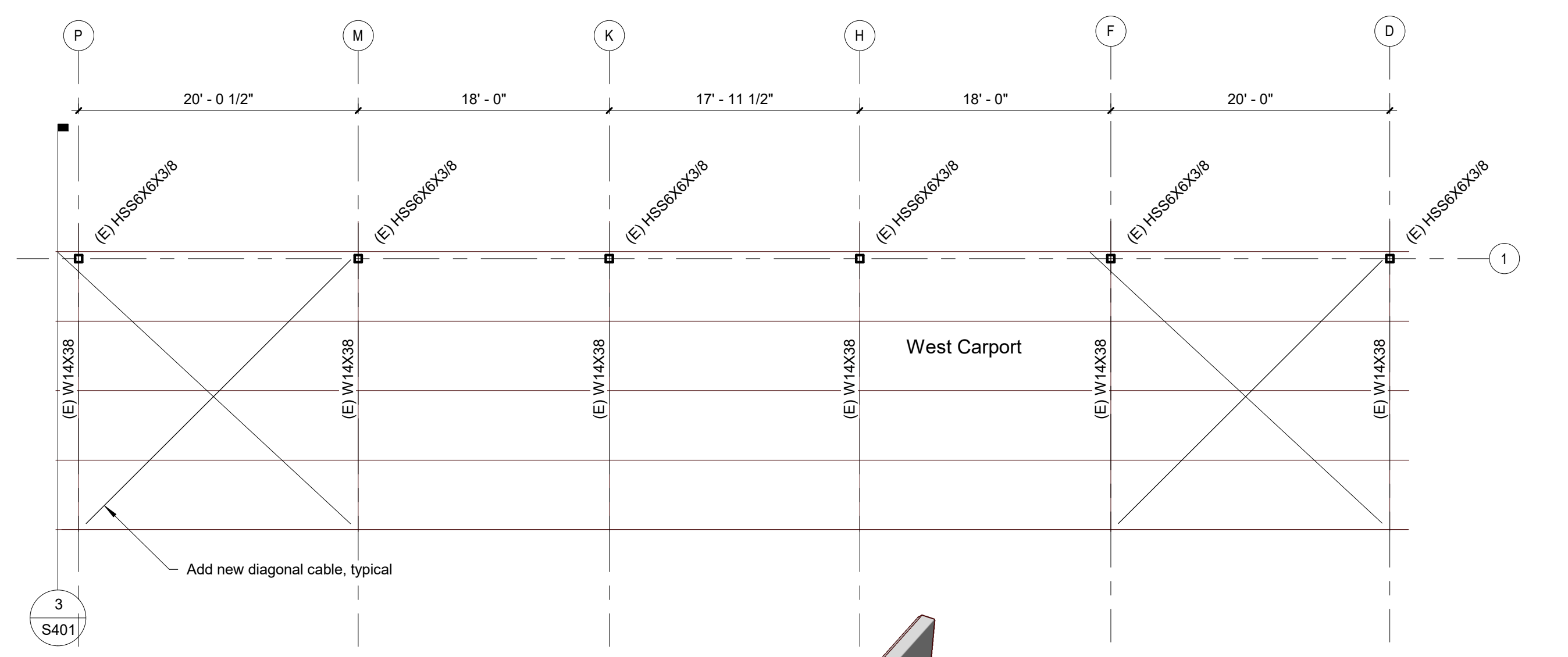
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Foundation Plan - West Carport 

1
S401 S204

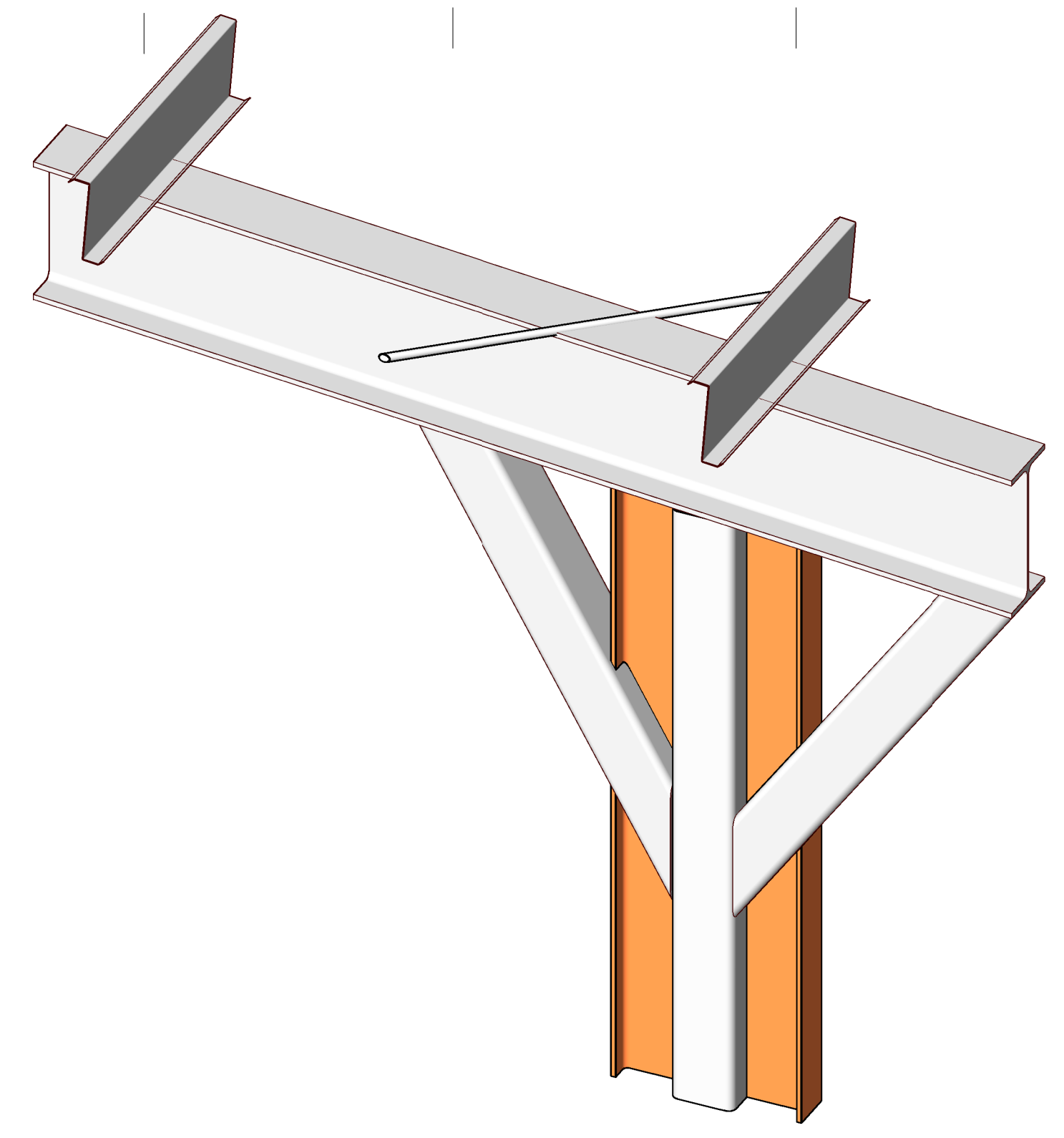
  
1/8" = 1'-0"



Roof Framing Plan - West Carport 

2
S204

  
1/8" = 1'-0"



Connection west 

3
S204

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SIMON G. SOLORIO, JR. IN THE STATE OF TEXAS. IT IS THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER TO MAINTAIN THE SEAL AND TO USE IT ONLY IN CONNECTION WITH HIS OR HER OWN PROFESSIONAL ENGINEERING SERVICES. IT IS A CRIME TO USE THE SEAL OF ANOTHER REGISTERED PROFESSIONAL ENGINEER.

*Simon G. Solorio, Jr.*

Document issued for:  
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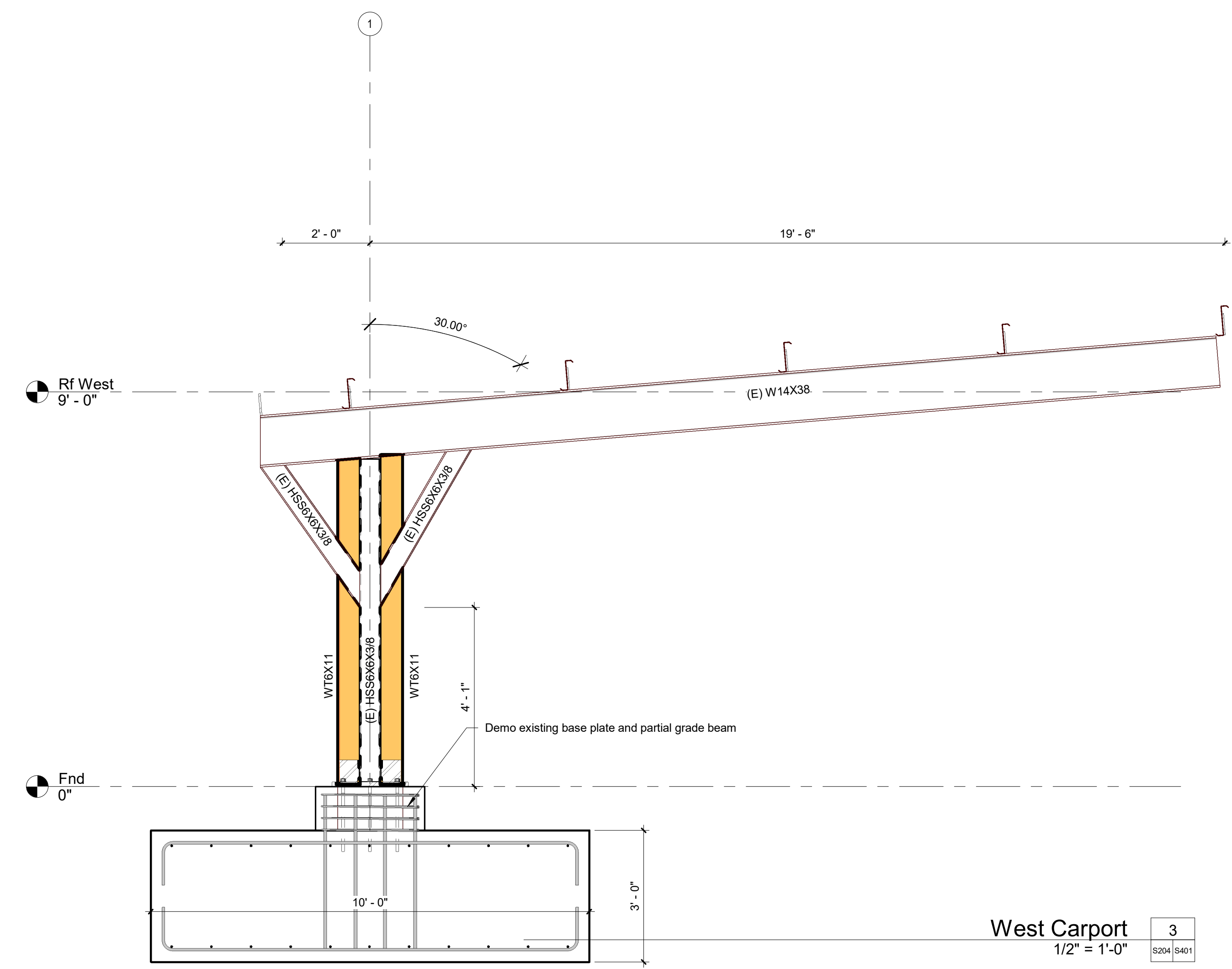
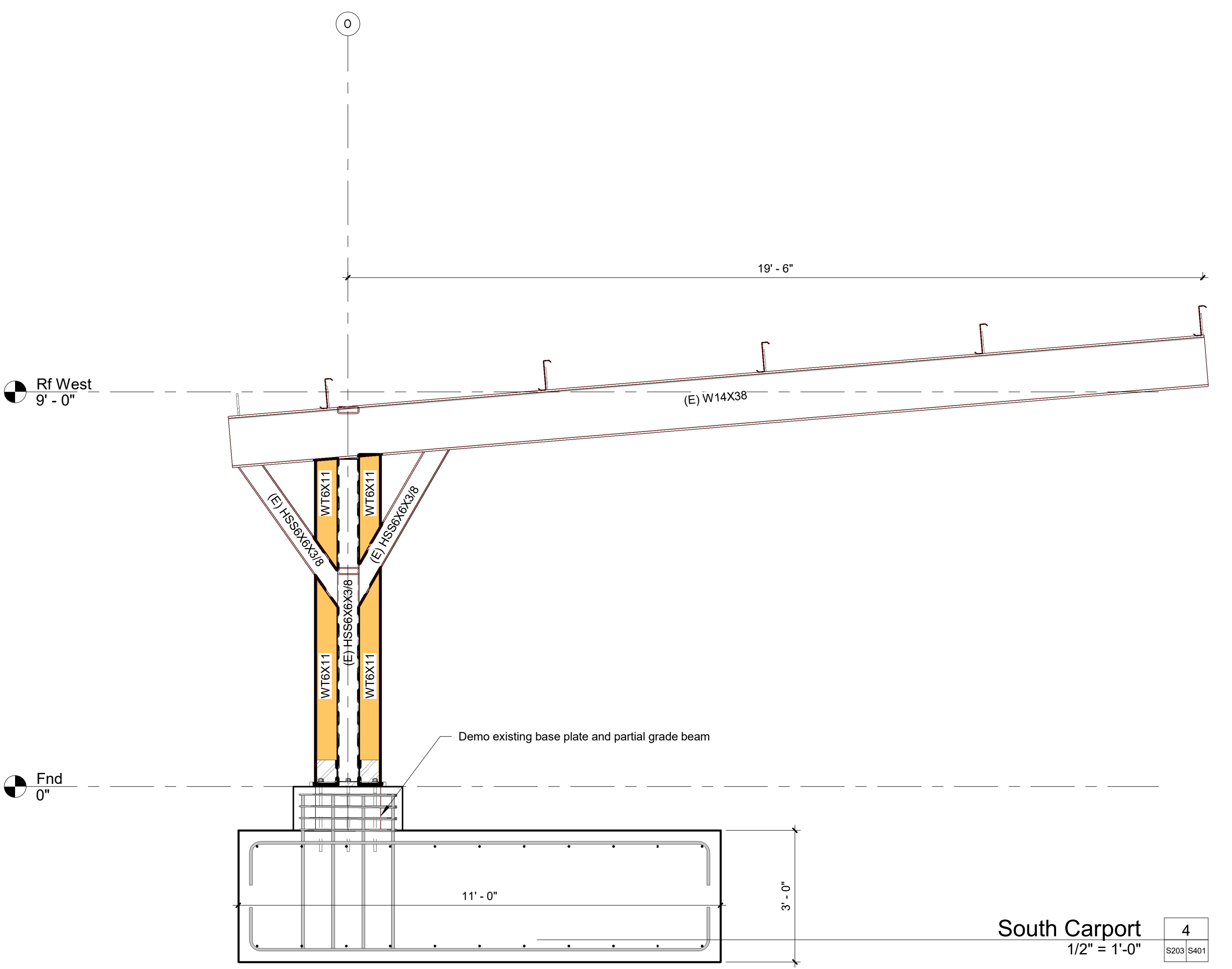
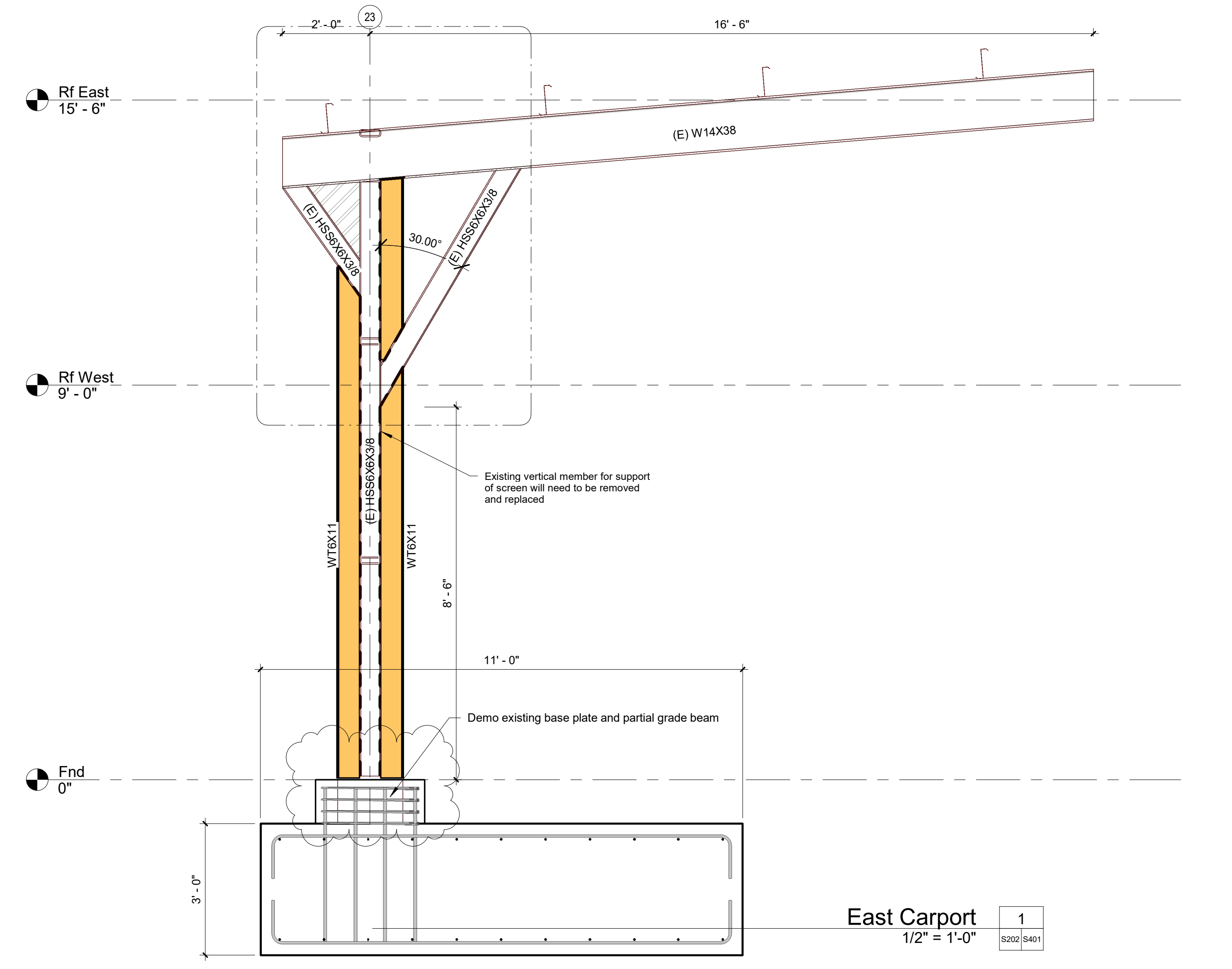
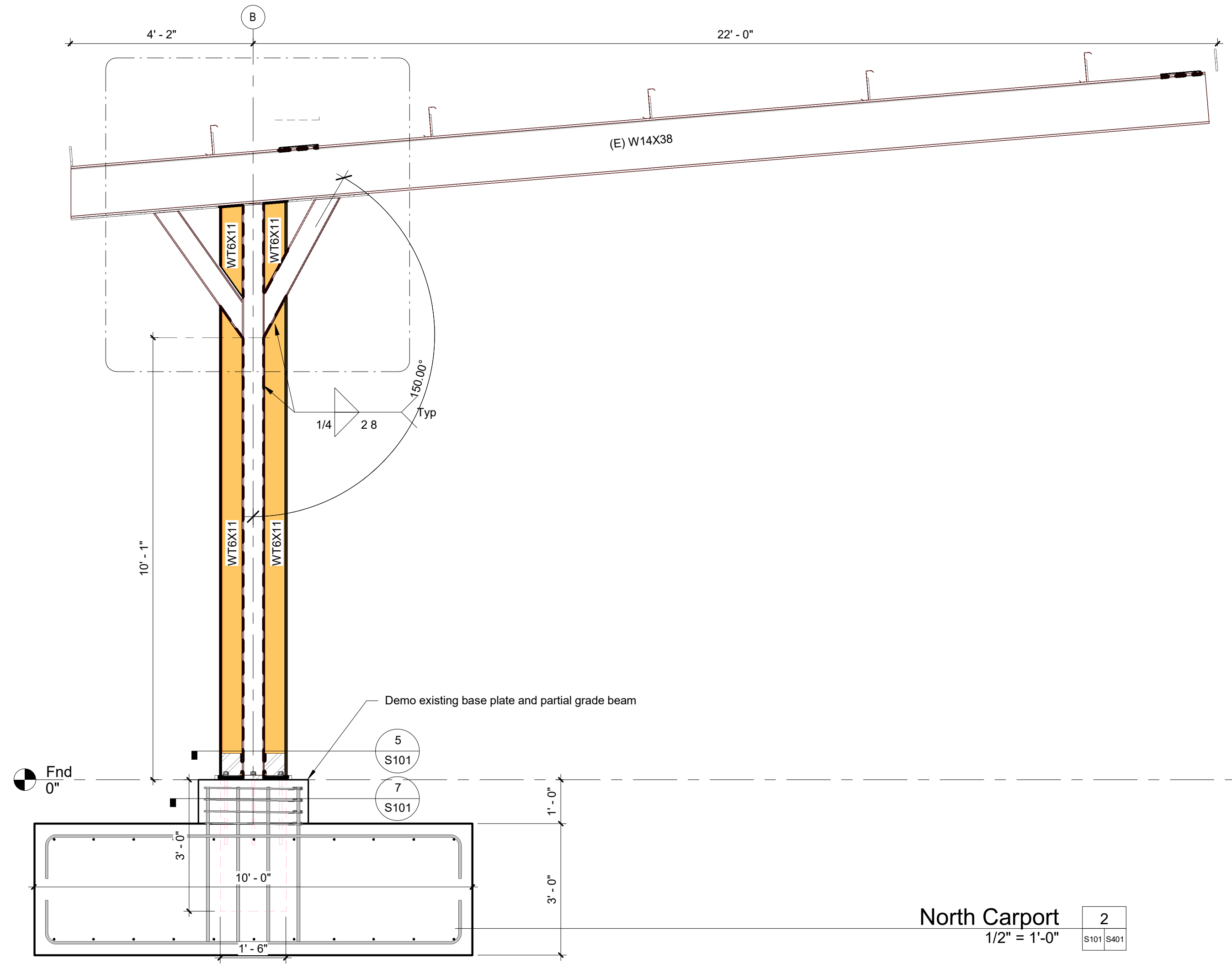
**HCCD Carports**  
**Option 1 Repair**  
 Edinburg, Texas

PROJECT NUMBER  
 23146  
 DATE  
 8/14/2023

MARK	DESCRIPTION	DATE	APPR

West Carport

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**HCCD Carports**  
**Option 1 Repair**  
 Edinburg, Texas

PROJECT NUMBER  
 23146  
 DATE  
 8/14/2023

APPR  
 DATE  
 Date 1  
 DESCRIPTION  
 Revision 1  
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**GENERAL CONSTRUCTION NOTES**

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE CITY OF EDINBURG STANDARD SPECIFICATIONS AND REGULATIONS AS WELL AS ALL APPLICABLE SAFETY CODES AND INSPECTION REQUIREMENTS.
- THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND ELECTRICAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE LOCATIONS AND SIZES HAVE BEEN TAKEN FROM EXISTING RECORDS AND THE BEST AS-BUILT INFORMATION AVAILABLE. HOWEVER, IT IS EXPECTED THAT THERE MAY BE SOME DISCREPANCIES AND OMISSIONS IN THE LOCATIONS, QUALITIES AND SIZES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE, SIZE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL ARRANGE FOR THE REPAIR AND RESTORATION OF CONTRACTOR DAMAGED UTILITIES. THE COST OF ANY REPAIR OR REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CURRENT LINE SPOTTING TOLL FREE NUMBER AND COORDINATE WITH ALL THE UTILITY COMPANIES FOR ACTUAL LOCATING AND UNCOVERING OF EXISTING LINE PRIOR TO EXCAVATION OPERATIONS.
- THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY UNREPORTED OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THIS PROJECT.
- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE STATE STATUTES AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (OSHA). COPIES OF THE O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT.
- ALL WORK SHALL BE PERFORMED WITHIN THE LIMITS OF BOUNDARY SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION TO USE OTHER PRIVATE PROPERTY FOR THE PURPOSES OF STAGING, STOCKPILE, STORAGE OR REFUSE AREAS.
- THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE, NEAT, AND WORKMAN LIKE MANNER AT ALL TIMES. JOB SAFETY SHALL NOT BE COMPROMISED. ANY UNSAFE OR UNATTRACTIVE NUISANCE SHALL BE REMOVED OR OTHERWISE TAKEN CARE OF BY THE CONTRACTOR WHEN DIRECTED BY THE OWNER OR PROJECT ENGINEER.
- DE-WATERING, GRADING, BACK FILLING, ETC. TO COMPLETE THE PROJECT. ASSOCIATED COSTS SHALL BE SUBSIDIARY TO THE RESPECTIVE BID ITEMS AS IDENTIFIED IN THE CONTRACT UNLESS NOTED OTHERWISE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXCAVATED MATERIAL, EXCESS CONCRETE, AND DEBRIS FROM THE CONSTRUCTION SITE AT NO ADDITIONAL EXPENSE.
- EXCAVATIONS, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES AT ALL TIMES.
- CONTRACTOR SHALL CONTACT THE CITY INSPECTOR ASSIGNED TO THIS PROJECT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONSTRUCTION OF THIS PROJECT WILL BE SUBJECT TO INSPECTIONS AND TESTING AS DEEMED NECESSARY OR APPROPRIATE BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH INCIDENTAL LABOR AND EQUIPMENT TO ALLOW TESTING PERSONNEL ACCESS TO THE WORK SITE AND WILL COOPERATE FULLY WITH THE PERSONS CONDUCTING THE TESTING AND INSPECTION PROGRAM.
- A PART OF THE WORK THAT IS NECESSARY OR REQUIRED TO MAKE EACH SYSTEM OR INSTALLATION SATISFACTORY AND OPERABLE FOR ITS INTENDED PURPOSE, EVEN THOUGH IT IS NOT SPECIFICALLY INCLUDED IN THE SPECIFICATIONS OR DRAWINGS, SHALL BE PERFORMED AS INCIDENTAL WORK AS IF IT WERE DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.
- ALL EXCAVATION FOR THIS PROJECT SHALL BE UNCLASSIFIED.
- THERE WILL BE NO BLASTING ALLOWED ON THIS PROJECT.
- THE CONTRACTOR SHALL INSPECT ALL MATERIALS AT DELIVERY AND NOTIFY THE PROJECT ENGINEER OF ANY DAMAGED OR QUESTIONABLE MATERIALS ANY INSTALLED DAMAGED OR QUESTIONABLE MATERIAL WITHOUT PRIOR INSPECTION BY THE PROJECT ENGINEER SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.
- ALL PAVEMENTS SHALL BE NEATLY SAW-CUT. DAMAGE TO PAVEMENT BEYOND THE EXTENTS OF TRENCH WIDTHS AS A RESULT OF FAILURE TO PROPERLY SAW-CUT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL COMPACTION SHALL BE ACHIEVED BY MECHANICAL METHODS, NO WATER JETTING ALLOWED.
- ALL TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION WITH THE USE OF PROTECTIVE BARRIERS INSTALLED BY THE CONTRACTOR, AT THE DRIP LINE OF EACH TREE.
- ANY SAFETY DEVICES, WARNING LIGHTS, CONTROLS, ALARMS OR OTHER DEVICES SHOWN ON ANY PLANS OR CALLED FOR BY ANY SECTION OF THE SPECIFICATIONS SHALL BE MADE OPERABLE. THE CONTRACTOR SHALL SUPPLY ALL CONDUIT, WIRING, SWITCHES, SENSORS, OR ANY OTHER MATERIALS NECESSARY TO CONNECT THE DEVICE AND MAKE IT OPERABLE.
- ALL UTILITIES WHICH ARE TO REMAIN AND WHICH ARE DAMAGED OR REMOVED WILL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THESE NOTES ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND SHOULD NOT BE CONSIDERED A SUBSTITUTE FOR THE DETAILED REQUIREMENTS SET FORTH IN THE SPECIFICATIONS, WHERE THERE IS A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.
- AS SOON AS PRACTICAL, ALL PORTIONS OF EXCAVATIONS NOT OCCUPIED BY A PERMANENT STRUCTURE SHALL BE BACKFILLED.
- AREAS USED FOR THE CONTRACTOR'S JOB TRAILER, PERSONNEL, PARKING, MATERIAL STORAGE, SPOILS STOCKPILE, MATERIAL FABRICATION AND RELATED CONSTRUCTION USES MUST BE APPROVED BY THE PROJECT ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND/OR SAFETY OF THE CONSTRUCTION SITE, SITE PERSONNEL, SUBCONTRACTORS, MATERIALS AND SAFETY OF THE CONSTRUCTION PLANS.
- THE CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL GRADES UNLESS FINISHED GRADES SHOW OTHERWISE ON THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL ENSURE NO AREAS OF PONDING AREA PRESENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ALL FIELD CHANGES AND FURNISHING A LEGIBLE SET OF "AS-BUILT" DRAWINGS TO THE PROJECT ENGINEERING.
- CONTRACTOR SHALL REMOVE AND REINSTALL ALL SIGNS, MAILBOXES, FENCES, CULVERTS AND OTHER ITEMS IN WAY OF THE WORK.
- CONTRACTOR SHALL REPAIR AND RESTORE ALL PAVED AREAS AFFECTED BY OPEN CUTS, TO A BETTER STATE THAN PRE-CONSTRUCTION CONDITIONS, WITH LIKE MATERIALS.
- PROVIDE INTERIM DRAINAGE DURING CONSTRUCTION AS REQUIRED. USE PUMPS, TEMPORARY DITCHES, ETC. TO MAINTAIN A WELL DRAINED SITE FREE OF STANDING WATER AND WATER SOFTENED SOILS.
- MAINTAIN COVER BELOW DITCHES AND SURFACE DEPRESSIONS. PRESSURE UTILITIES MAY BE LAID APPROXIMATELY PARALLEL TO GRADE, UNLESS OTHERWISE INDICATED, WITH LOCAL DEEPENING TO AVOID OTHER UTILITIES OR OBSTRUCTIONS. PROVIDE PROTECTION WHERE COVER IS TEMPORARILY REDUCED.
- ANCHOR ALL UNDERGROUND PRESSURE PIPING AS NECESSARY TO PREVENT MOVEMENT UNDER PRESSURE TEST AND SERVICES.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A-165, GRADE 60. ALL BARS SHALL CONFORM TO ASTM SPECIFICATION A-305.
- ALL CONCRETE AND FORM WORK SHALL CONFORM TO CURRENT ACI CODE REQUIREMENTS.
- THE CONSTRUCTION CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCE, PROCEDURES, TECHNIQUES OR SCHEDULING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONSTRUCTION CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR SAFETY IN OR ABOUT THE JOB SITE IN ACCORDANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS, REGULATIONS, STANDARDS OR CODES REQUIRED BY O.S.H.A. OR ANY OTHER REGULATORY AGENCY.

**GRADING NOTES:**

- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE AT HIS OWN EXPENSE.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREAS REFLECT TOP OF PAVEMENT SURFACE.
- PROPOSED CONTOURS ARE APPROXIMATE ONLY. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY.
- THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY AND ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNDESIRABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
- REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD AND PAVING SUBGRADE INFORMATION.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF FONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
- GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
- NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE. EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL POINTS PRIOR TO COMMENCING CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE CONSTRUCTION COMMENCES.
- REFER TO DIMENSION CONTROL & SITE PLAN FOR HORIZONTAL DIMENSIONS.
- REFER TO SWPPP PLAN FOR EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.

**PAVING NOTES:**

- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO THE TESTING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATION AND THESE PLANS.
- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- CONTRACTOR SHALL SAW-CUT A STRAIGHT, NEAT EDGE AT ALL THE-INS TO EXISTING PAVEMENTS.
- ALL APPURTENANCES INSTALLED IN PAVEMENT AREAS SHALL BE ADJUSTED AS REQUIRED TO BE FLUSH WITH FINISHED PAVEMENT.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS.
- REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT NOTES.
- ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
- UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED. FIELD ADJUSTMENTS OF LOCATION AND ORIENTATION OF THE SIGNS ARE TO BE MADE TO ACCOMPLISH THIS.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, AND ARCHITECT) SHALL BE CONSULTED.
- BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. AND T.A.S.) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMPS SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.
- CONTRACTOR IS TO PROVIDE GRASS GROWTH IN ACCORDANCE WITH ITEM 164 OF DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST REVISION) FOR PROPOSED EARTHEN CHANNEL(S) CONSTRUCTED, IF ANY.
- REFER TO GEOTECHNICAL REPORT FOR SOIL COMPACTION SPECIFICATIONS.

**TRENCH SAFETY**

- IN ACCORDANCE WITH HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE (70TH REGULAR LEGISLATIVE SESSION), THE CONTRACTOR SHALL MEET THE REQUIREMENTS FOR TRENCH SAFETY AS OUTLINED IN THE CURRENT VERSION OF THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 29 CFR, PART 1926, SUBPART P- EXCAVATIONS.
- PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN. ALL PLANS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. THE PLAN SHALL BE SUBMITTED TO THE PROJECT ENGINEER.
- IN THE EVENT CONDITIONS ENCOUNTERED IN THE FIELD REQUIRE TRENCH SAFETY SYSTEMS OUTSIDE OF THE EXTENTS SUGGESTED TRENCH PROTECTION SHOWN ON THE CONSTRUCTION PLANS, ALL EXCAVATION SHALL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A REVISED TRENCH SAFETY PLAN. NO EXCAVATION SHALL RESUME UNTIL THE REVISED TRENCH SAFETY PLAN HAS BEEN APPROVED.
- THE CONTRACTOR SHALL ENSURE APPROVED TRENCH SAFETY PLANS ARE IMPLEMENTED. FAILURE TO ADHERE TO THE TRENCH SAFETY PLAN WILL RESULT IN A STOP WORK ORDER. NONCOMPLIANCE INCIDENTS MAY BE REPORTED TO OSHA.
- TRENCHES OR EXCAVATIONS MAY NOT BE LEFT OPEN OVERNIGHT UNLESS AUTHORIZED IN WRITING BY THE PROJECT ENGINEER. IN CASES WHERE TRENCHES ARE LEFT OPEN, THE CONTRACTOR MUST PROVIDE TRAFFIC RATED, ANCHORED STEEL PLATE COVERS APPROVED BY THE ENGINEER.



300 S. 8th Street, McAllen, Tx 78501  
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300 S. 10TH ST., SUITE 1500 TEL: (956) 702-8880  
MCALLEN, TEXAS 78501 FAX: (956) 702-8883



**CDBG-CV HC HEALTH FACILITY IMPROVEMENTS**  
County of Hidalgo  
S 25th Ave, Edinburg, TX 78542

Description	
Date	
No.	

PROJECT NO.: 20300  
ISSUE DATE: 12/31/2021  
DRAWN BY: E.S.  
CHECKED BY: N.L.  
SHEET NAME:

GENERAL NOTES - ALTERNATE #2

Sheet Number

**C1.00**

Project Status:

100% CONSTRUCTION DOCUMENTS

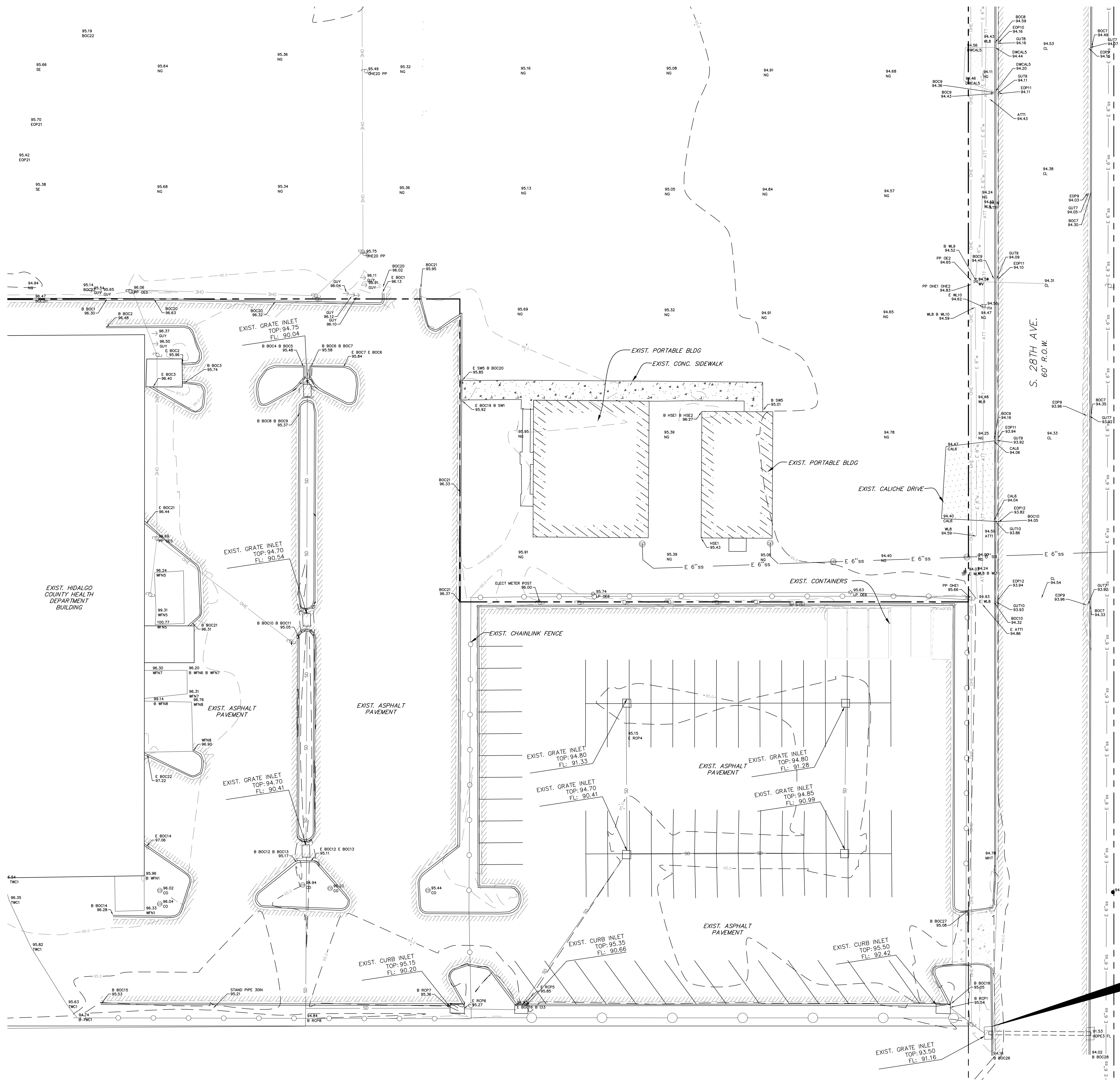
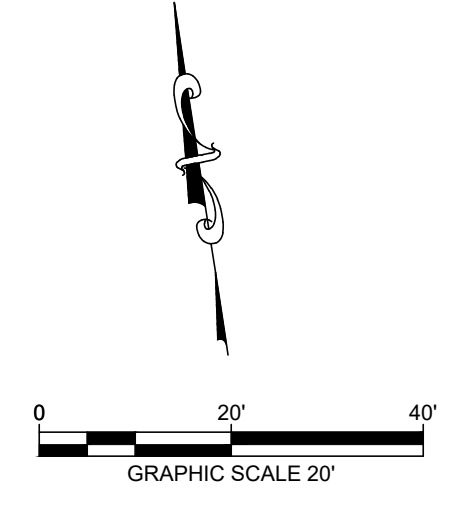
**CALL BEFORE YOU DIG!**

811

THE LONE STAR NOTIFICATION COMPANY  
AT 1-800-669-8344

# CDBG-CV HC HEALTH FACILITY IMPROVEMENTS

County of Hidalgo  
S 25th Ave, Edinburg, TX 78542



CONTROL POINT INFORMATION	
CONTROL POINT #1: NORTHWEST CORNER OF EXIST. GRATE INLET, LOCATED NEAR THE SOUTHWEST PROPERTY CORNER OF THE SUBJECT PROPERTY.	
N:	16629614.07
E:	1099976.49
Z:	93.50

LEGEND				
●	1/2" IRON ROD	○	WATER VALVE	
○	SETBACK BRASS DISC WITH WITNESS	○	CABLE PEDESTAL	
○	SERVICE POLE	○	WATER METER	
○	LIGHT POLE	○	UNDERGROUND CABLE	
○	TELEPHONE PEDESTAL	○	4" UNDERGROUND LINE	
○	STOP SIGN	○	SAFETY AND TREATMENT	
○	TRAFFIC SIGN	○	ELECTRICAL BOX	
○	SANITARY TOWER MANHOLE	○	EDGE OF PAVEMENT	
○	FIRE HYDRANT	○	BACK OF CURB	
○	PLUM TREE	○	WATER LINE	
○	TRIE	○	12" SANITARY SEWER LINE	
○	LOT LINE	○	INTEGRATION CONTROL VALVE	
○	EXISTING	○	FLUSH VALVE	
○	CONCRETE	○	CHAINLINK FENCE LINE	
○	ASPHALT	○	GAULCH	
○	CONCRETE	○	DIAPHRAGM ELECTRIC LINE	
○	BRICK PAVEMENT	○	EXIST. FROM OTHER LINE	
○	H.C.S.R. - HIDALGO COUNTY MAP RECORDS	○	C	CENTER LINE
○	H.C.E.R. - HIDALGO COUNTY DEED RECORDS			
○	D.A.V.C. - OFFICIAL RECORDS OF HIDALGO COUNTY			
○	P.A.R. - PART OF WAY			
○	P.G. - FLOOD			
○	T.M. - TRAILWAY			

**A1** EXISTING CONDITION

PROJECT NO.:	23030
ISSUE DATE:	12/31/2021
DRAWN BY:	E.S.
CHECKED BY:	N.L.
SHEET NAME:	
EXISTING CONDITION - ALTERNATE #2	

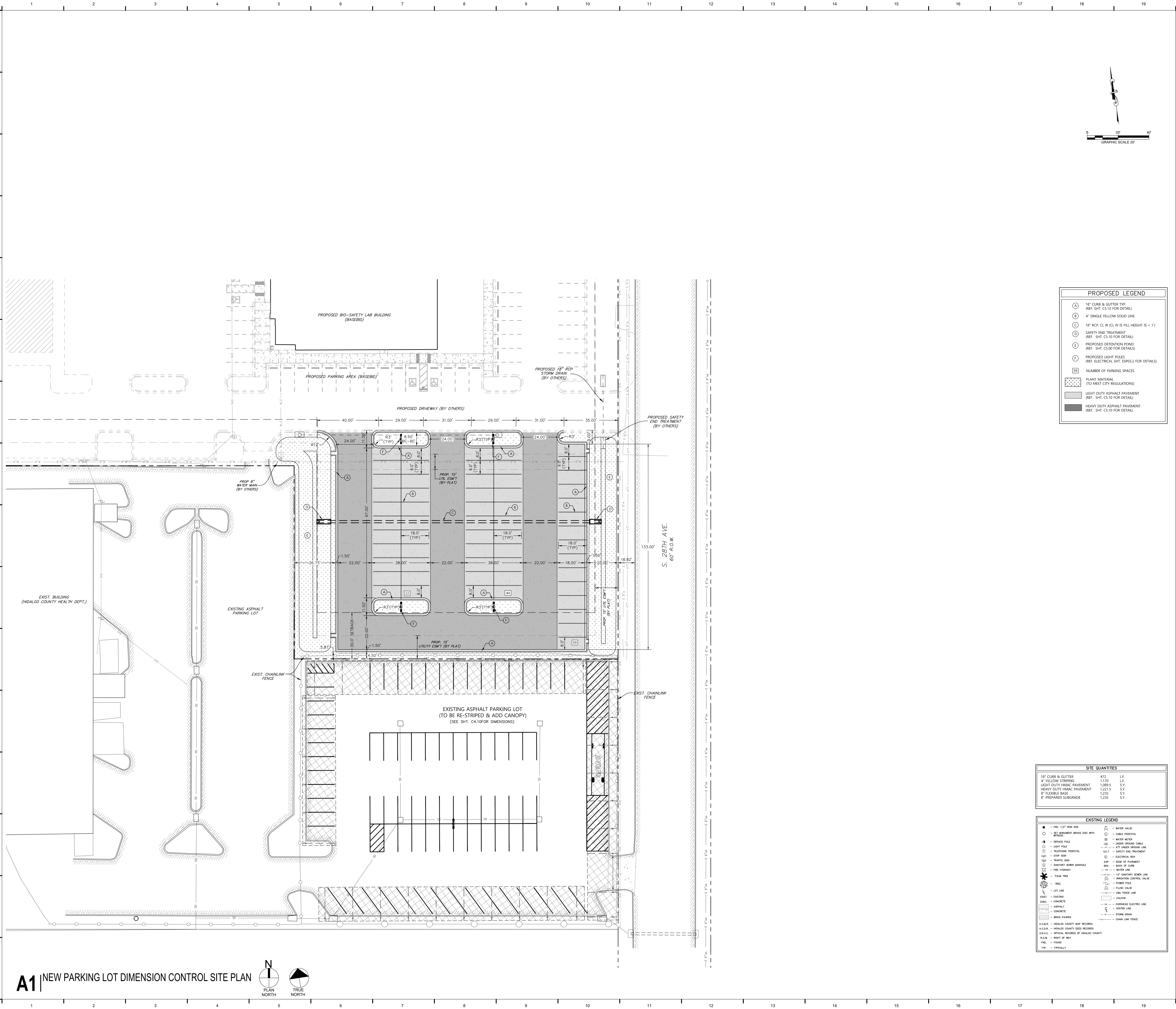
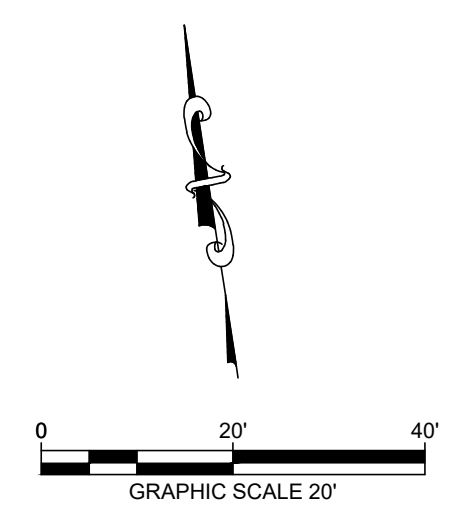
Sheet Number  
**C2.00**  
Project Status:  
100% CONSTRUCTION DOCUMENTS





# CDBG-CV HC HEALTH FACILITY IMPROVEMENTS

County of Hidalgo  
S 25th Ave, Edinburg, TX 78542



PROPOSED LEGEND	
(A)	18" CURB & GUTTER TYP. (REF. SHT. C5.10 FOR DETAIL)
(B)	4" SINGLE YELLOW SOLID LINE
(C)	18" RCP CL III (CL IV IS FILL HEIGHT IS < 1')
(D)	SAFETY END TREATMENT (REF. SHT. C5.10 FOR DETAIL)
(E)	PROPOSED DETENTION POND (REF. SHT. C5.00 FOR DETAILS)
(F)	PROPOSED LIGHT POLES (REF. ELECTRICAL SHT. ES03.2 FOR DETAILS)
(G)	NUMBER OF PARKING SPACES
(H)	PLANT MATERIAL (TO MEET CITY REGULATIONS)
(I)	LIGHT DUTY ASPHALT PAVEMENT (REF. SHT. C5.10 FOR DETAIL)
(J)	HEAVY DUTY ASPHALT PAVEMENT (REF. SHT. C5.10 FOR DETAIL)

SITE QUANTITIES		
18" CURB & GUTTER	472	L.F.
4" YELLOW STRIPING	1,170	L.F.
LIGHT DUTY HMA/C PAVEMENT	1,085.5	S.V.
HEAVY DUTY HMA/C PAVEMENT	1,241.5	S.V.
8" FLEXIBLE BASE	1,235	S.V.
6" PREPARED SUBGRADE	1,235	S.V.

EXISTING LEGEND	
●	PRO. 1/2" IRON ROD
○	SET REINFORCE BRASS DISC WITH FINISH
○	SEWER POLE
○	LIGHT POLE
○	STAIRCASE PEDESTAL
○	STOP SIGN
○	WATER SIGN
○	SAFETY SIGNER MANHOLE
○	FIRE HYDRANT
○	PAV. TREE
○	LOT LINE
○	EXISTING
○	CONC.
○	ASPHALT
○	CONCRETE
○	BRICK PAVERS
○	H.C.M.A. - HIDALGO COUNTY MAP RECORDS
○	H.C.R.C. - HIDALGO COUNTY REE RECORDS
○	S.A.N.C. - OFFICIAL RECORDS OF HIDALGO COUNTY
○	R.O.W. - RIGHT OF WAY
○	FIN. - FOUND
○	TYP. - TYPICALLY
○	WATER VALVE
○	CABLE PEDESTAL
○	WATER METER
○	UNDER GROUND CABLE
○	AT UNDER GROUND LINE
○	SAFETY END TREATMENT
○	ELECTRICAL BOX
○	SIDE OF PAVEMENT
○	BACK OF CURB
○	18" SANITARY SEWER LINE
○	WATER LINE
○	IRIGATION CONTROL VALVE
○	POWER POLE
○	FLUSH VALVE
○	DMV FENCE LINE
○	GAULDR
○	OVERHEAD ELECTRIC LINE
○	CENTER LINE
○	STONE DRAIN
○	CHAIN LINK FENCE

Description	Date	No.

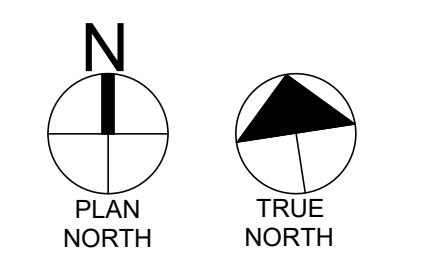
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ISSUE DATE: 12/31/2021  
DRAWN BY: E.S.  
CHECKED BY: N.L.  
SHEET NAME:

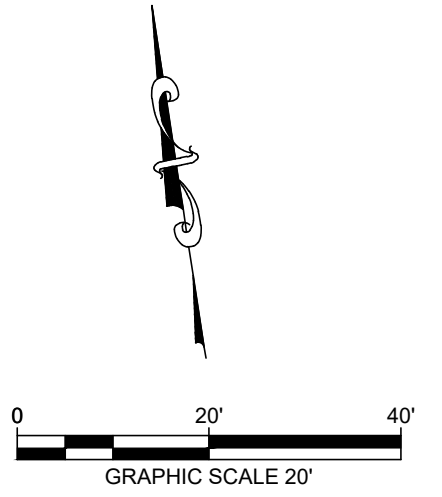
NEW PARKING LOT DIMENSION CONTROL SITE PLAN - ALTERNATE #2

Sheet Number  
**C4.00**

Project Status:  
100% CONSTRUCTION DOCUMENTS

## A1 | NEW PARKING LOT DIMENSION CONTROL SITE PLAN





PROPOSED LEGEND	
(A)	4" SINGLE YELLOW SOLID LINE
(B)	4" SINGLE YELLOW SOLID STRIPING 45° AT 3' O.C. PERPENDICULAR TO THE PARKING SPACE
(C)	PROPOSED METAL CANOPY SEE STRUCTURAL SHEETS FOR DETAILS
(D)	PROPOSED LIGHTING (REF. ELECTRICAL SHT. ESP01 FOR DETAILS)
(E)	PROPOSED LIGHT POLES (REF. ELECTRICAL SHT. ESP02 FOR DETAILS)
(76)	NUMBER OF PARKING SPACES

- NOTES:
- SEE STRUCTURAL PLANS FOR CANOPY DESIGN.
  - SEE ELECTRICAL PLANS FOR LIGHTING WITHIN PARKING LOT.

- PREPARATION OF EXISTING ASPHALT PARKING LOT:  
PRIOR TO APPLICATION OF NEW STRIPING, CONTRACTOR SHALL
- BLACK OUT EXISTING STRIPING
  - CLEAN AND SWEEP EXISTING ASPHALT SURFACE OF DEBRIS
  - FILL IN ANY CRACKS WITHIN THE ASPHALT
  - SEALCOAT EXISTING ASPHALT (TxDOT ITEM 316)

SITE QUANTITIES		
4" BLACK STRIPING	1,350	L.F.
4" YELLOW STRIPING	2,310	L.F.
SEAL COAT	3,450	S.Y.

EXISTING LEGEND	
●	FIN. 1/2" IRON ROD
○	SET REINFORCE BRASS DISC WITH WHICH
○	SEWER POLE
○	LIGHT POLE
○	SEWERING PEDIMENT
○	STOP SIGN
○	WATER SIGN
○	SAFETY SIGN
○	SAFETY SIGN MANHOLE
○	FIRE HYDRANT
○	TRIP
○	4" LOT LINE
○	EXIST. CASTING
○	CONC.
○	ASPHALT
○	CONCRETE
○	BRICK PAVING
○	HEALDO COUNTY MAP RECORDS
○	HEALDO COUNTY DEED RECORDS
○	OFFICIAL RECORDS OF HEALDO COUNTY
○	BOUNDARY
○	FOUND
○	TYPICALLY
○	WATER VALVE
○	CABLE PEDIMENT
○	UNDER GROUND CABLE
○	ATT UNDER GROUND LINE
○	SAFETY SIGN TREATMENT
○	ELECTRICAL BOX
○	EDGE OF PAVEMENT
○	BACK OF CURB
○	12" SANITARY SEWER LINE
○	IRIGATION CONTROL VALVE
○	FLOWER POLE
○	FLUSH VALVE
○	DMV FENCE LINE
○	CAUSEWAY
○	OVERHEAD ELECTRIC LINE
○	CENTER LINE
○	STONE DRAIN
○	CHAIN LINK FENCE

# CDBG-CV HC HEALTH FACILITY IMPROVEMENTS

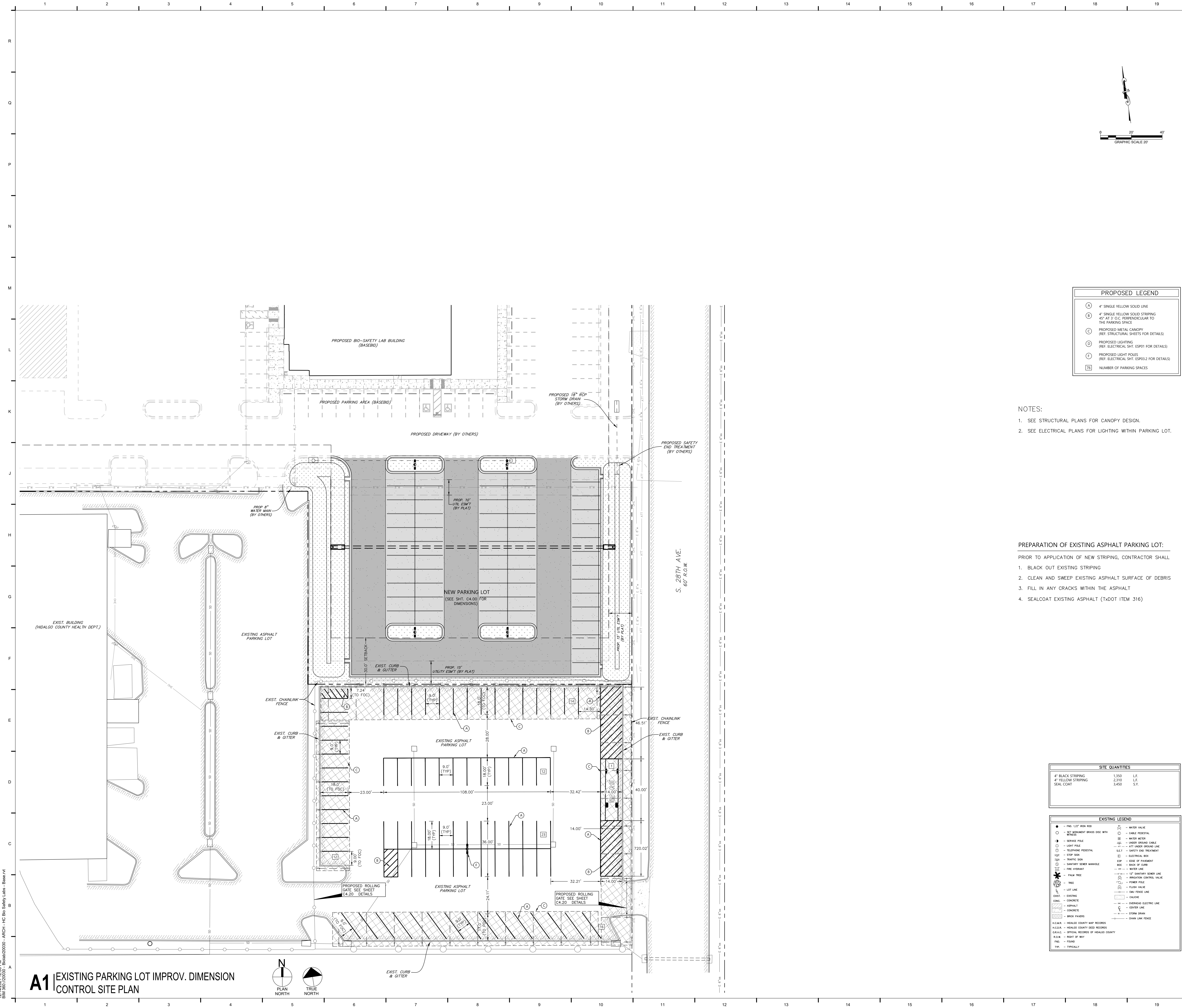
County of Hidalgo  
S 25th Ave, Edinburg, TX 78542

Description	Date	No.

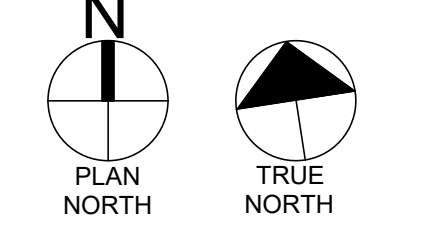
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ISSUE DATE: 12/31/2021  
DRAWN BY: E.S.  
CHECKED BY: N.L.  
SHEET NAME

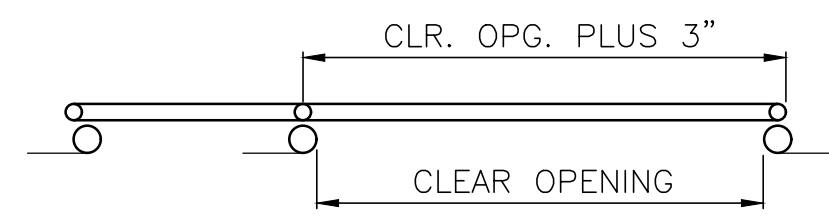
EXISTING PARKING LOT IMPROV. DIMENSION CONTROL SITE PLAN - ALTERNATE #2

Sheet Number  
**C4.10**  
Project Status:  
100% CONSTRUCTION DOCUMENTS

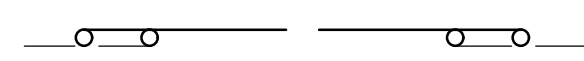


**A1** EXISTING PARKING LOT IMPROV. DIMENSION CONTROL SITE PLAN

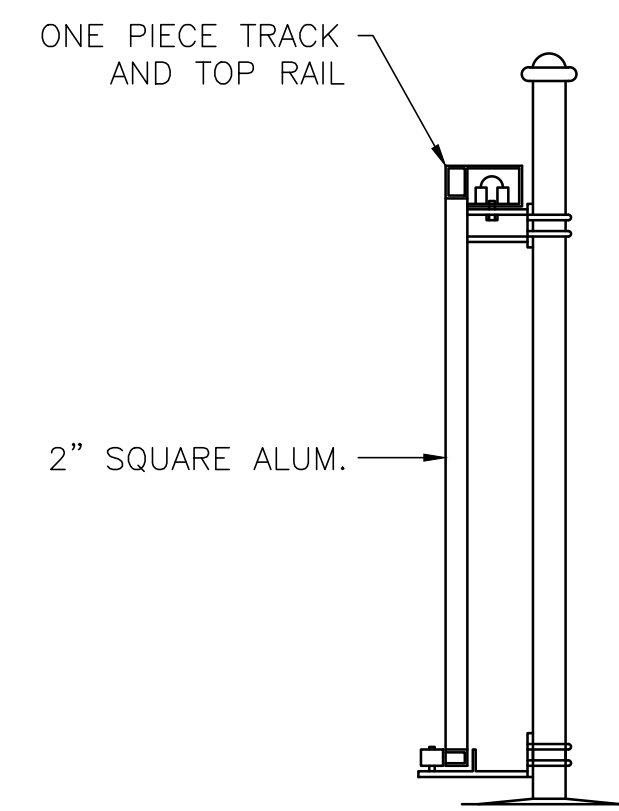




TYPICAL SINGLE GATE



TYPICAL DOUBLE GATE  
USE 2 SINGLE GATES WITH  
SUPPORT POSTS OMIT  
LATCH POST

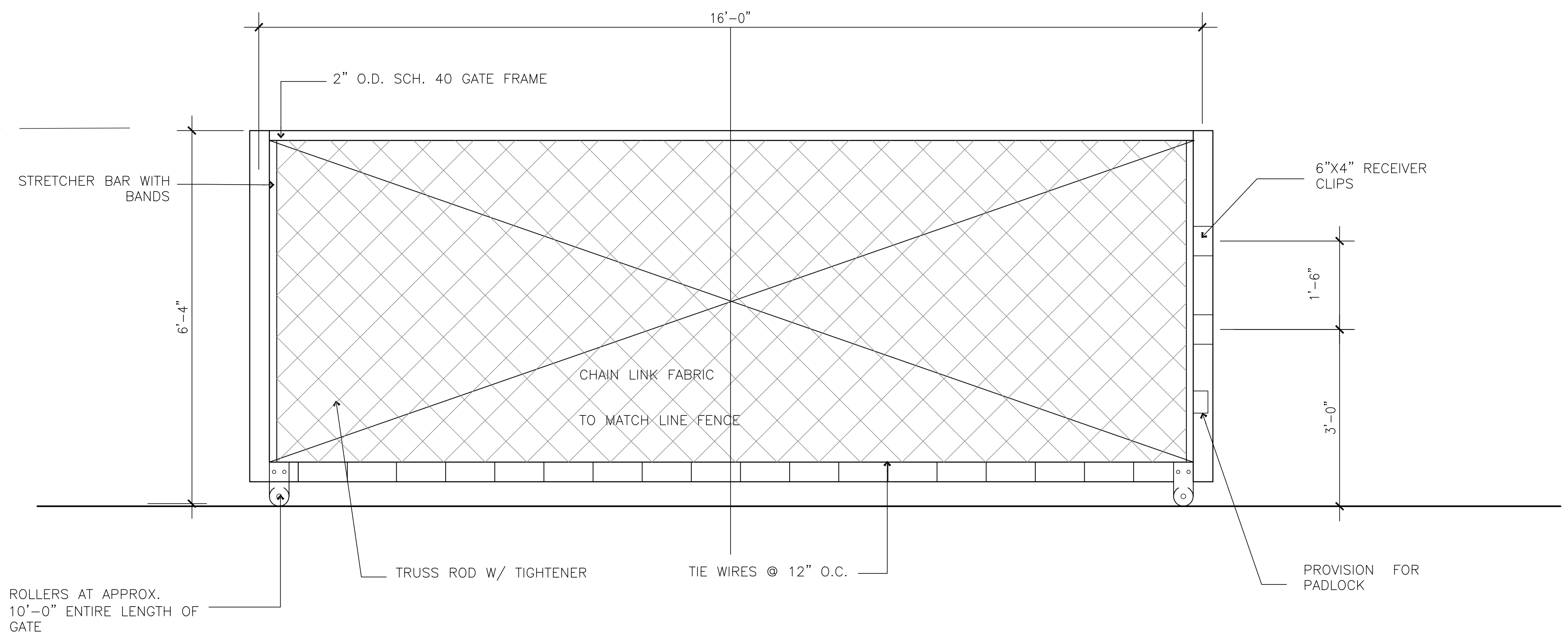


SECTION "A-A"

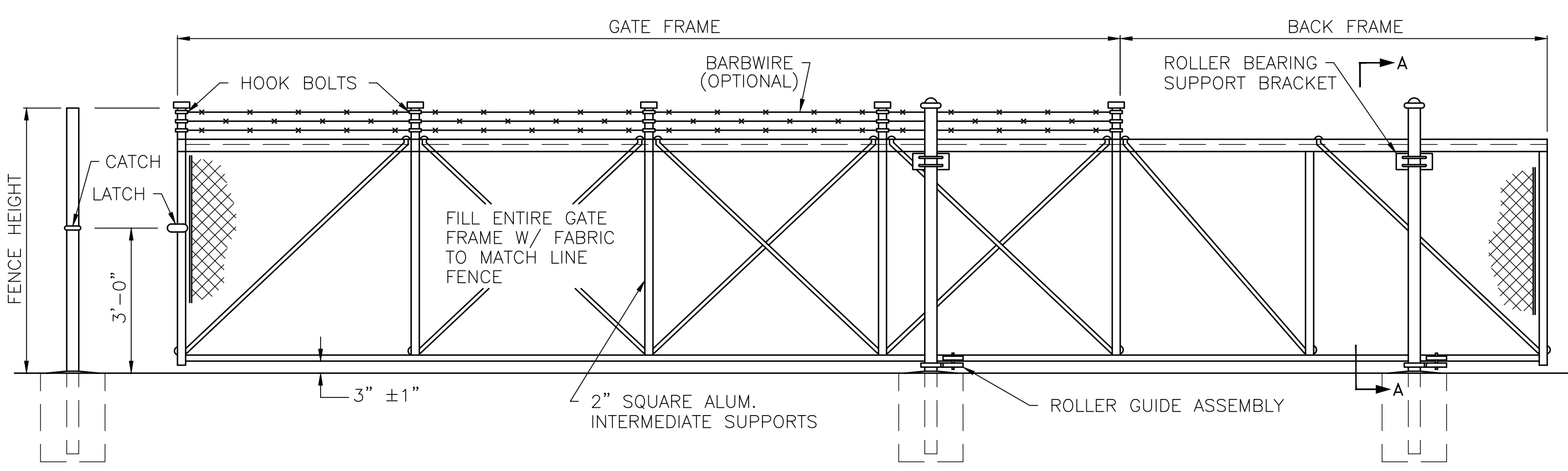
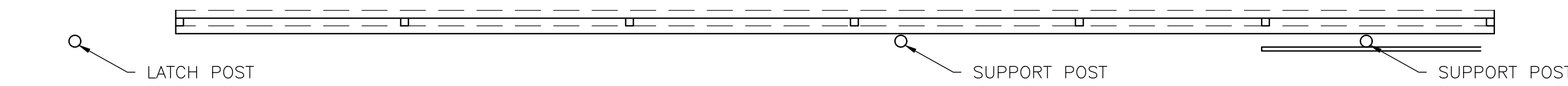
- COATINGS:**  
GATE FRAME - ALUMINUM ALLOY 6063-T6  
POSTS - STEEL, GALVANIZED IN ACCORDANCE WITH  
ASTM, F1083 OR A123  
FABRIC - TO MATCH LINE FENCE  
BARBWIRE - TO MATCH LINE FENCE

SIZE OF GATE	DISTANCE FOR OVERHANG POST
6'-0" TO & INCL. 10'-0"	6'-6"
11'-0" TO & INCL. 14'-0"	7'-6"
15'-0" TO & INCL. 22'-0"	10'-0"
23'-0" TO & INCL. 30'-0"	12'-0"

NOTE: THIS DESIGN IS FOR  
MAXIMUM 30'-0" SINGLE OR  
60'-0" DOUBLE  
CANTILEVER GATES WITH  
FABRIC UP TO 8'-0" HIGH



SLIDING GATE ELEVATION  
SCALE: N.T.S.

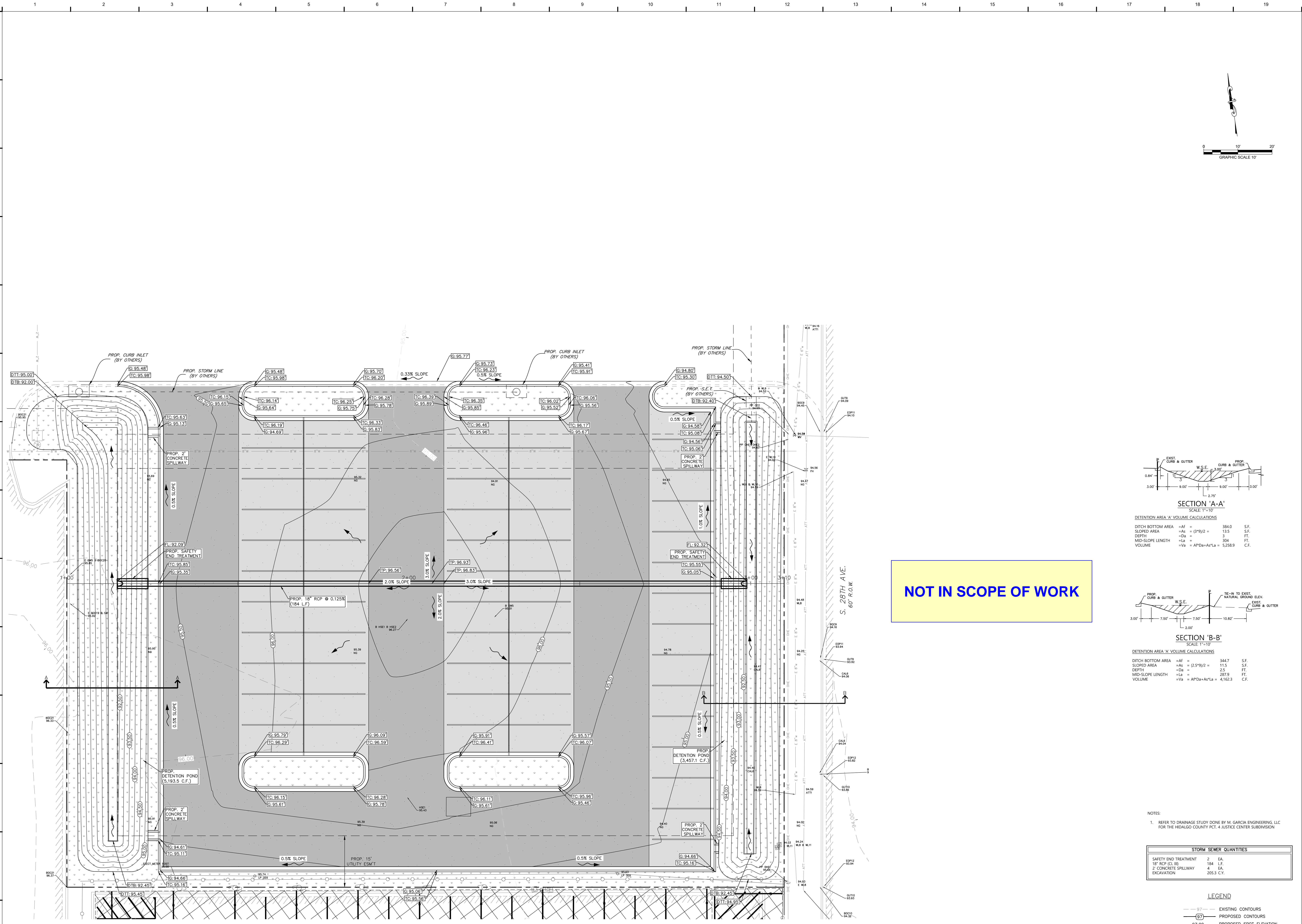
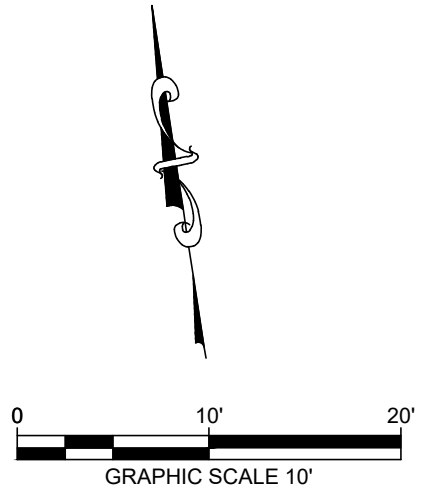


CANTILEVER GATE

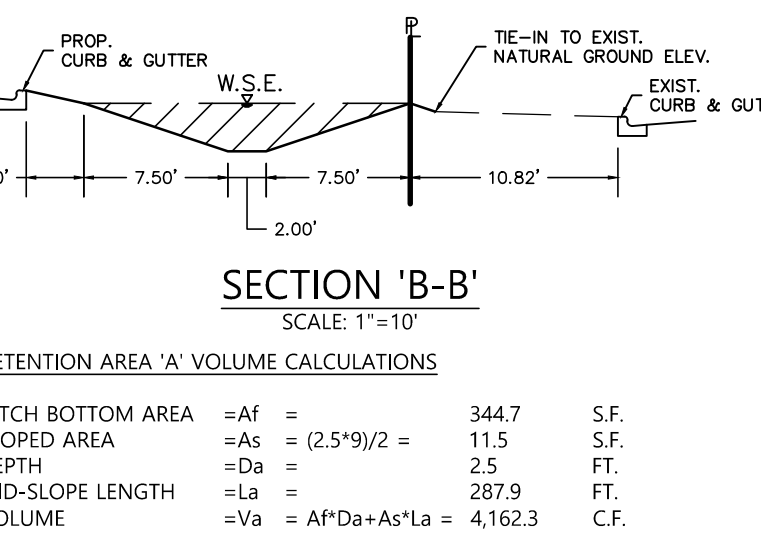
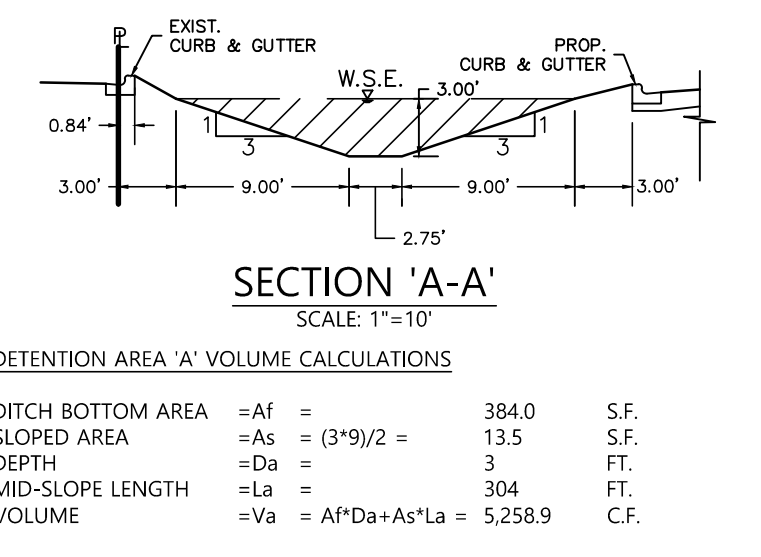
Description	Date	No.

PROJECT NO.: 20030  
ISSUE DATE: 12/31/2021  
DRAWN BY: E.S.  
CHECKED BY: N.L.  
SHEET NAME

ROLLING GATE DETAILS - ALTERNATE #2



NOT IN SCOPE OF WORK

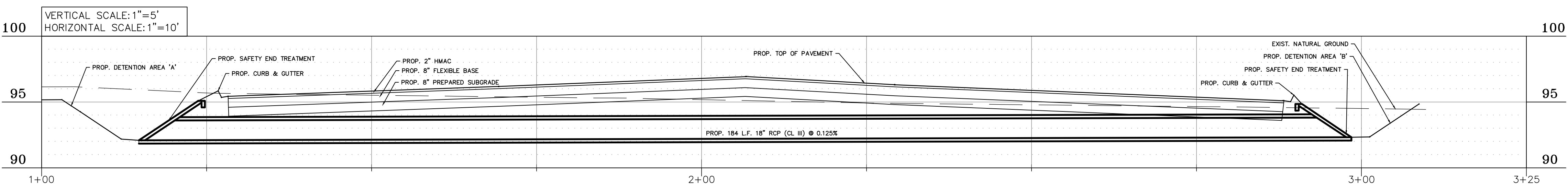


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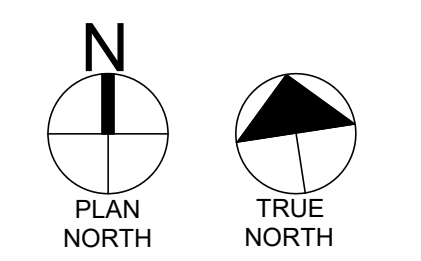
- REFER TO DRAINAGE STUDY DONE BY M. GARCIA ENGINEERING, LLC FOR THE HIDALGO COUNTY PCT. JUSTICE CENTER SUBDIVISION

STORM SEWER QUANTITIES	
SAFETY END TREATMENT	2 EA.
18" RCP C.I. BB	194 L.F.
2" CONCRETE SPILLWAY	4 EA.
EXCAVATION	205.3 C.Y.

LEGEND	
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
97.00	PROPOSED SPOT ELEVATION
G	GUTTER LINE
TC	TOP OF CURB
DIT	DITCH TOP
DTB	DITCH BOTTOM
FL	FLOW LINE
97.00 x	EXISTING SPOT ELEVATION
▨	LIGHT DUTY ASPHALT PAVEMENT
▨	HEAVY DUTY ASPHALT PAVEMENT



**A1 DRAINAGE AND GRADING LAYOUT**



**CDBG-CV HC HEALTH FACILITY IMPROVEMENTS**  
County of Hidalgo  
S 25th Ave, Edinburg, TX 78542

PROJECT NO.: 23030  
ISSUE DATE: 12/31/2021  
DRAWN BY: E.S.  
CHECKED BY: N.L.  
SHEET NAME: DRAINAGE AND GRADING LAYOUT - ALTERNATE #2

Sheet Number  
**C5.00**  
Project Status:  
100% CONSTRUCTION DOCUMENTS

# CDBG-CV HC HEALTH FACILITY IMPROVEMENTS

County of Hidalgo  
S 25th Ave, Edinburg, TX 78542

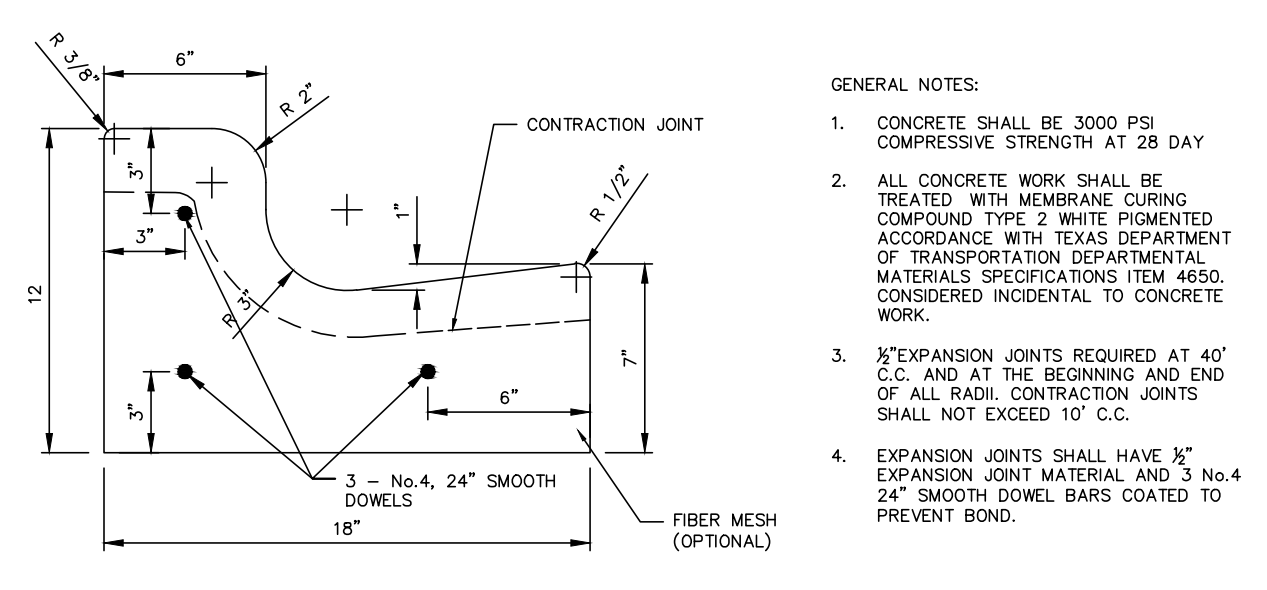
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PROJECT NO.: 23030  
ISSUE DATE: 12/31/2021  
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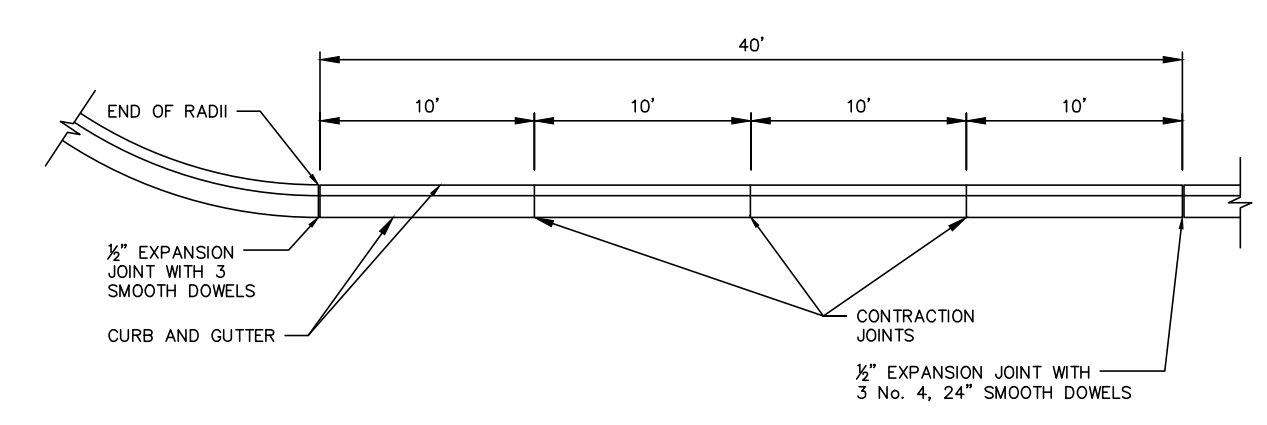
DRAINAGE AND PAVEMENT DETAILS - ALTERNATE #2

Sheet Number  
**C5.10**

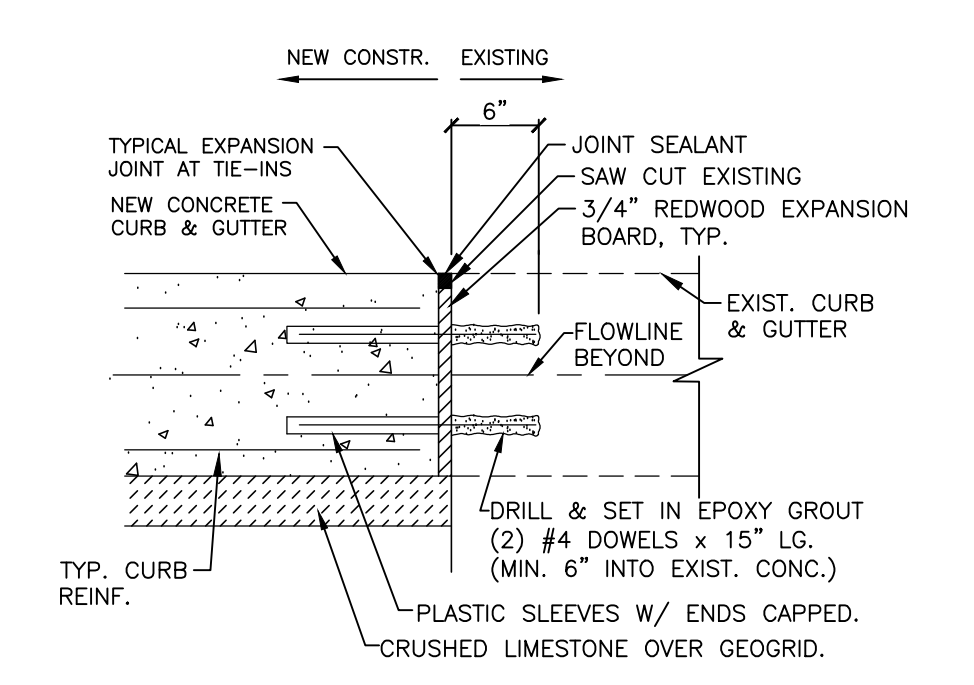
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100% CONSTRUCTION DOCUMENTS



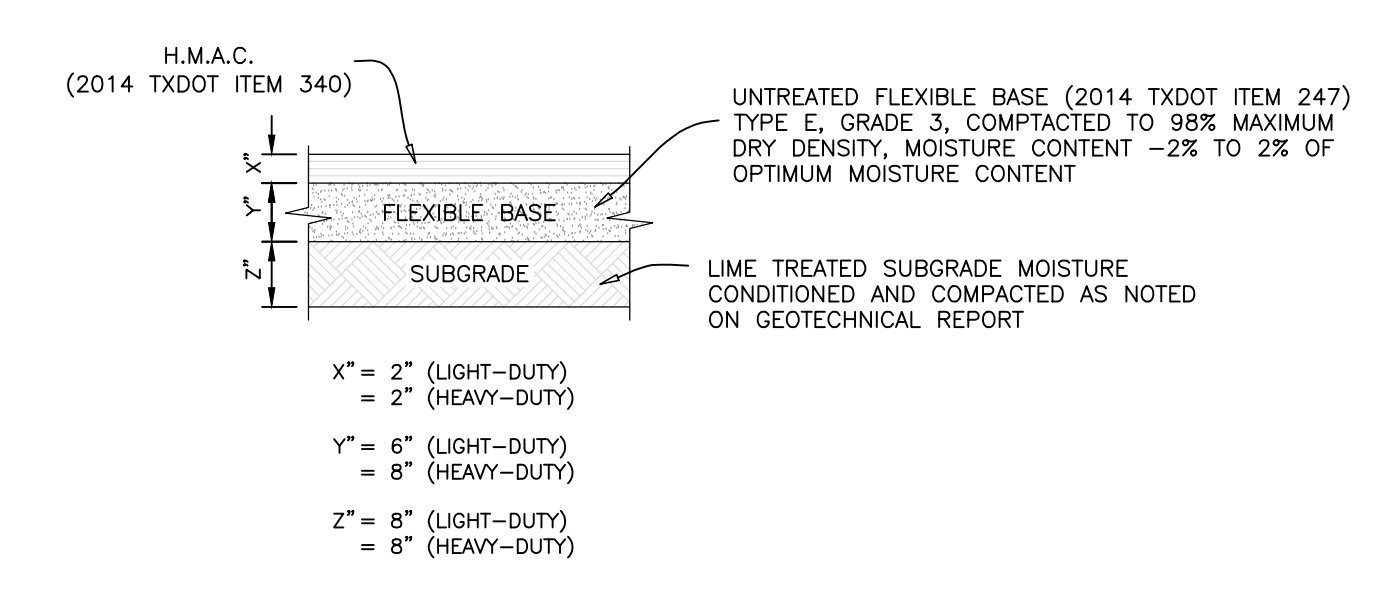
**CURB AND GUTTER DETAIL**  
NOT TO SCALE



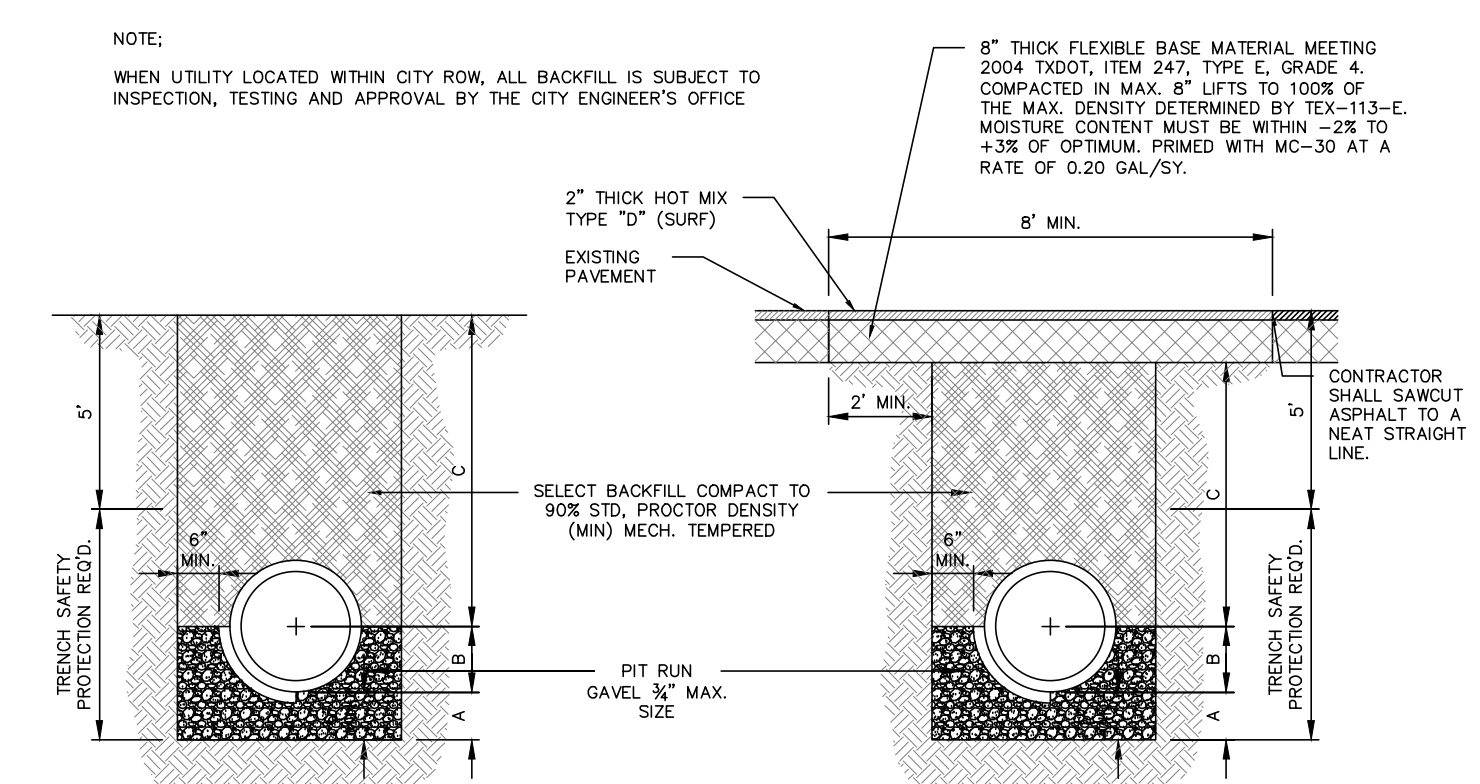
**TYPICAL JOINTS**  
NOT TO SCALE



**CURB & GUTTER TIE-IN DETAIL**  
NOT TO SCALE



**NEW ASPHALT PAVEMENT SECTION**  
NOT TO SCALE

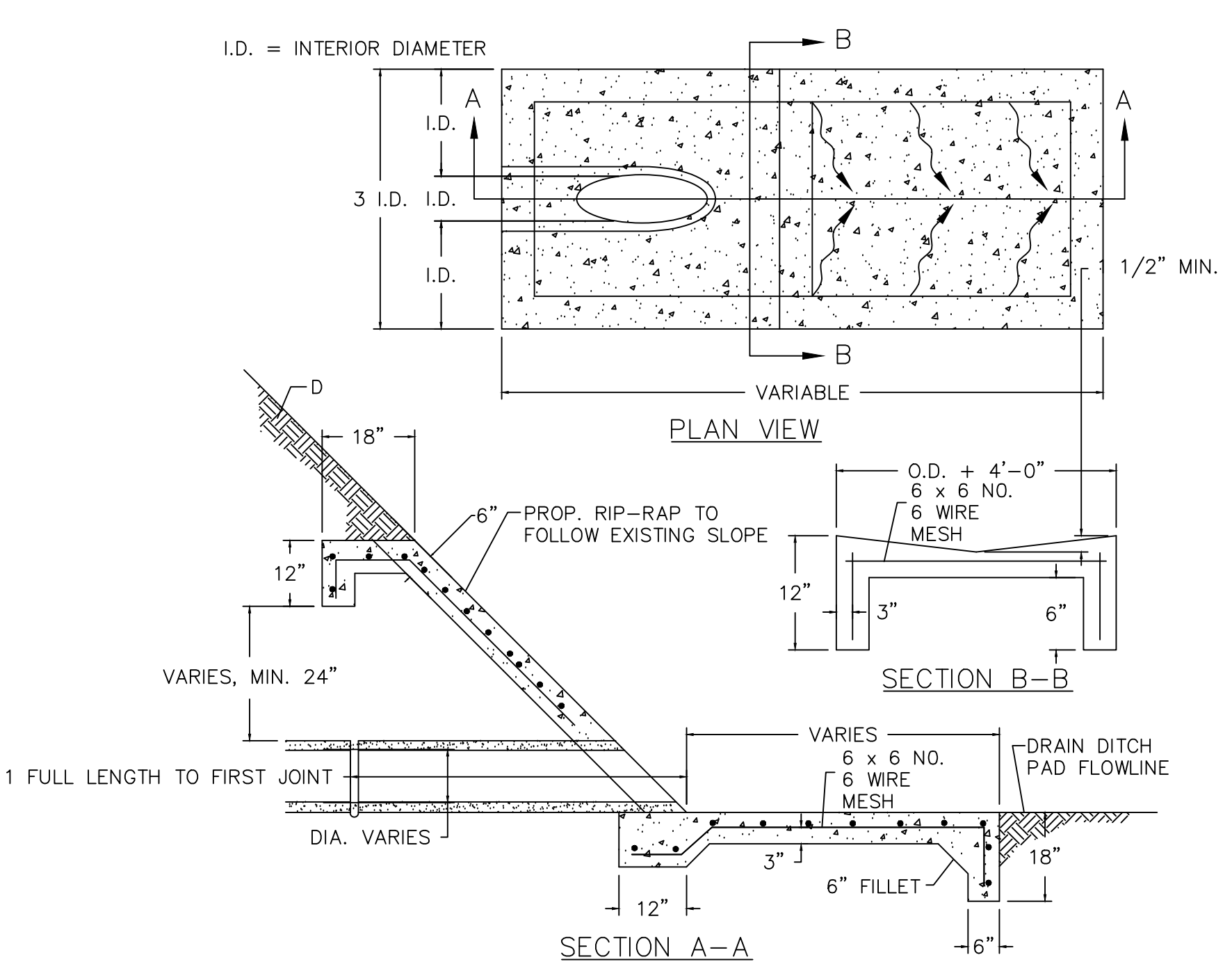


**STANDARD PIPE BEDDING**

- GENERAL NOTES:**
- CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAY.
  - ALL CONCRETE WORK SHALL BE FINISHED WITH FINISHING CURING COMPOUND TYPE 3 WHITE FLOUMENT ACCORDING WITH TEXAS DEPARTMENT OF TRANSPORTATION DEPARTMENTAL MATERIALS SPECIFICATIONS ITEM 6003 CONSIDERED INCIDENTAL TO CONCRETE WORK.
  - EXPANSION JOINTS REQUIRED AT 40' C.C. AND AT THE BEGINNING AND END OF ALL PADE. CONSTRUCTION JOINTS SHALL NOT EXCEED 10' C.C.
  - EXPANSION JOINTS SHALL HAVE 3" EXPANSION JOINT MATERIAL AND 3 NO. 4 24" SMOOTH DOWEL BARS COATED TO PREVENT CORROSION.

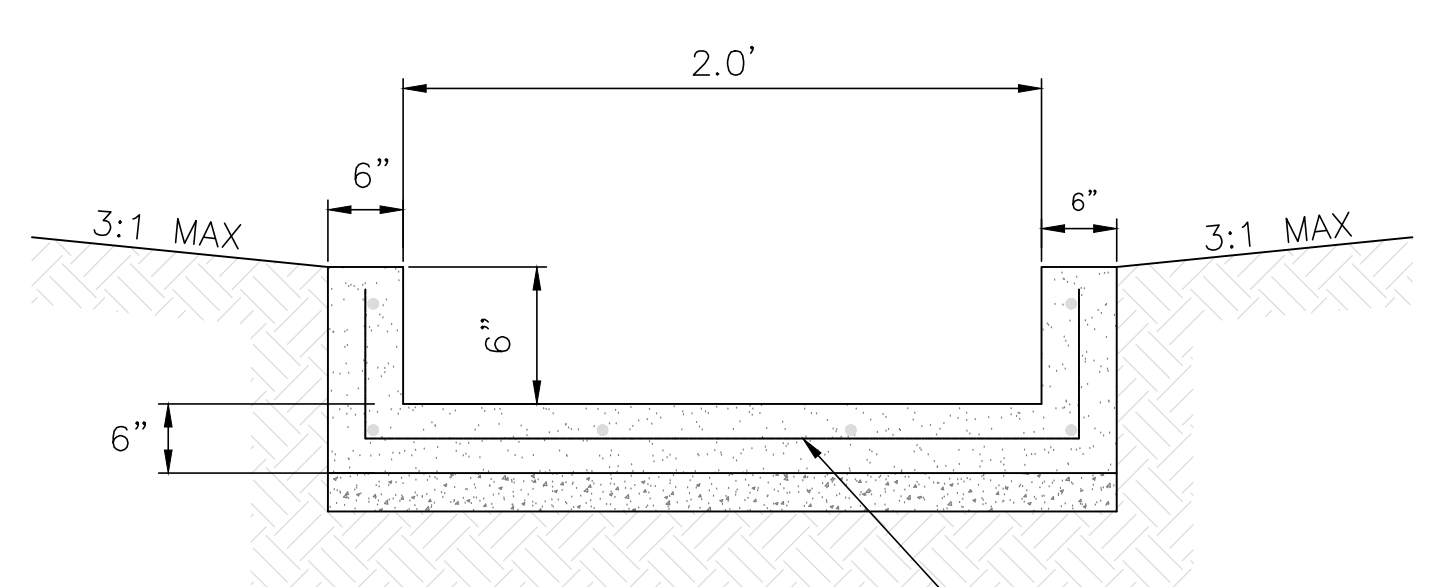
**NOTE:**  
ALL EXISTING STREET CROSSING SHALL REQUIRE SAND BACKFILL OF ENTIRE TRENCH

**STANDARD PIPE BEDDING - DETAILS**  
NOT TO SCALE

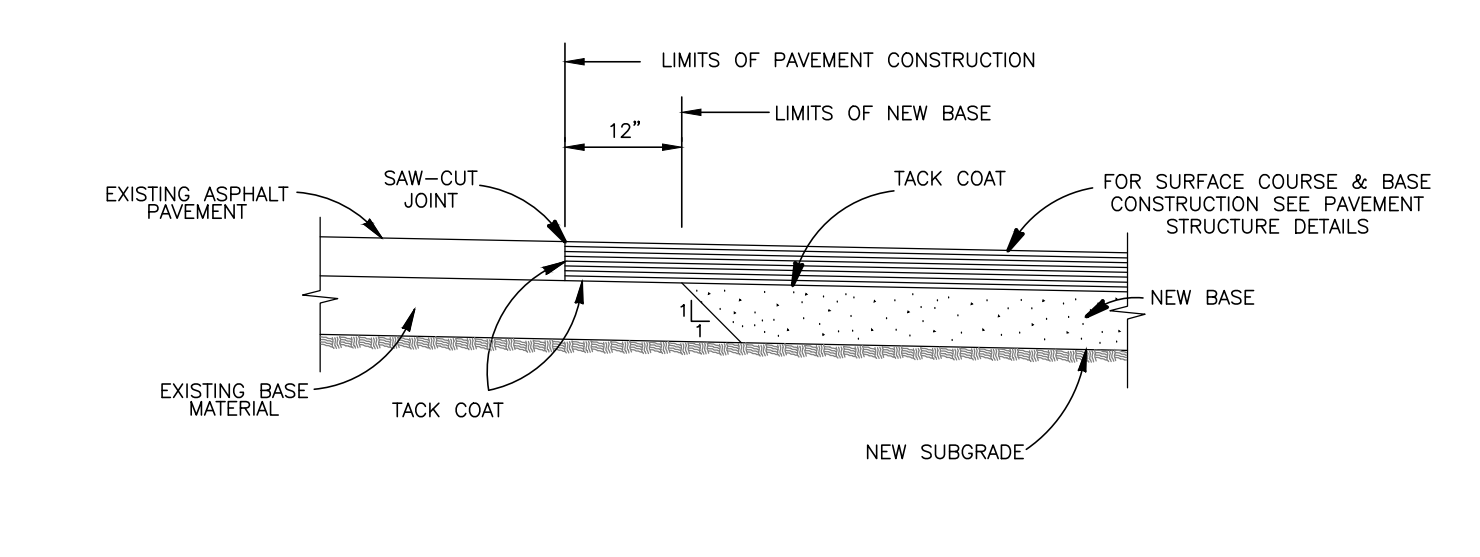


**CONCRETE SLOPED-END TREATMENT**  
NOT TO SCALE

- GENERAL NOTES:**
- CONCRETE TO HAVE 3000 P.S.I. MIN. AT 28 DAY COMPRESSIVE STRENGTH.
  - ALL STEEL TO BE GRADE 60.
  - MIN. 90% COMPACTION STD. PROCTOR DENSITY.
  - STANDARD DETAIL FOR CITY OF MCALLEN DITCHES.

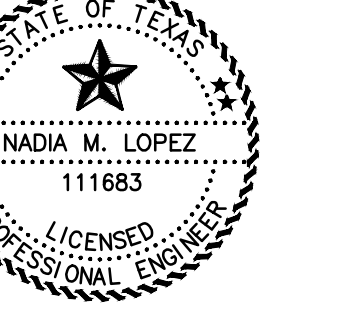


**CONCRETE SPILLWAY**  
N.T.S.



**PAVEMENT JUNCTION DETAIL**  
N.T.S.

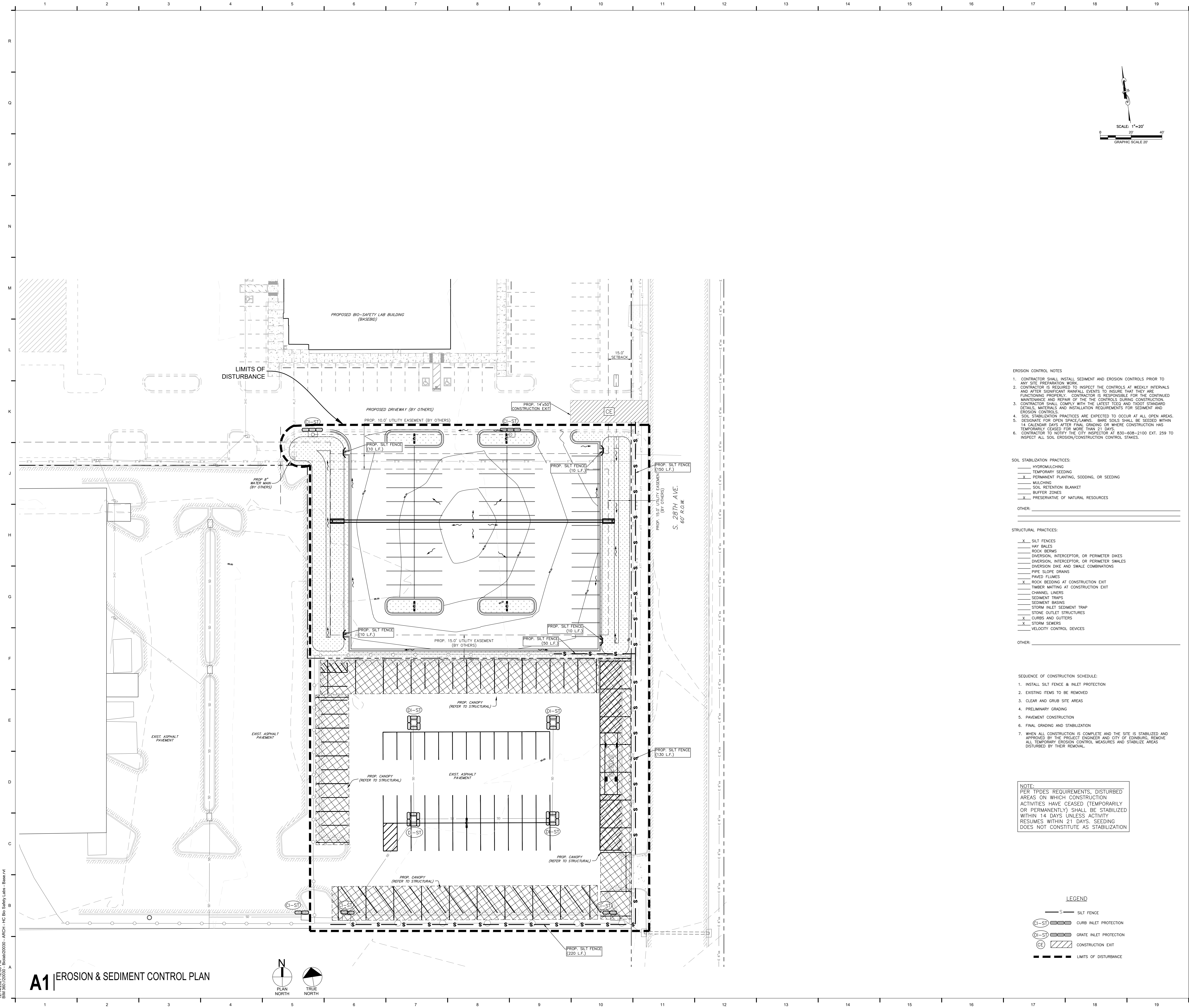
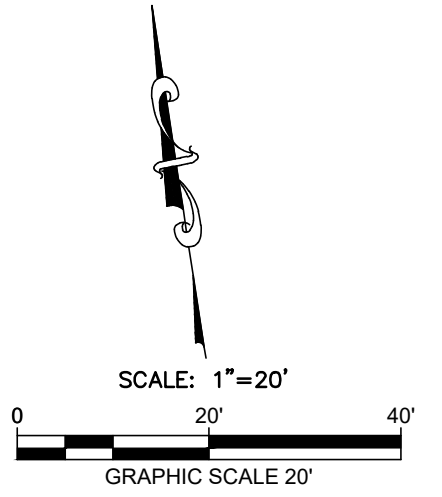
12/31/21



Nadia M. Lopez, P.E.

# CDBG-CV HC HEALTH FACILITY IMPROVEMENTS

County of Hidalgo  
S 25th Ave, Edinburg, TX 78542



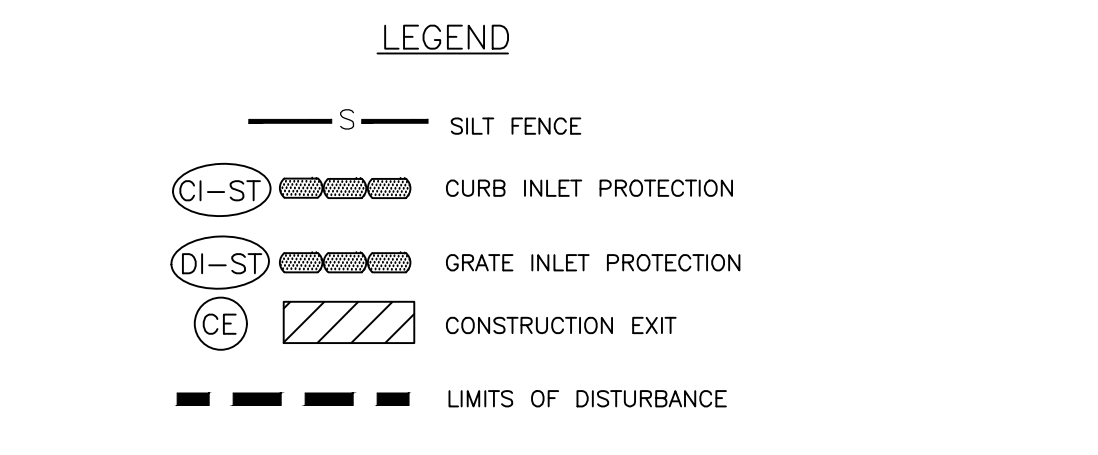
- EROSION CONTROL NOTES**
- CONTRACTOR SHALL INSTALL SEDIMENT AND EROSION CONTROLS PRIOR TO ANY SITE PREPARATION WORK.
  - CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. CONTRACTOR IS RESPONSIBLE FOR THE CONTINUED MAINTENANCE AND REPAIR OF THE CONTROLS DURING CONSTRUCTION.
  - CONTRACTOR SHALL COMPLY WITH THE LATEST TCEQ AND TDDT STANDARD DETAILS, MATERIALS AND INSTALLATION REQUIREMENTS FOR SEDIMENT AND EROSION CONTROLS.
  - SOIL STABILIZATION PRACTICES ARE EXPECTED TO OCCUR AT ALL OPEN AREAS. DESIGNATE FOR OPEN SPACE/LAWNS. BARE SOILS SHALL BE SEEDED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE CONSTRUCTION HAS TEMPORARILY CEASED FOR MORE THAN 21 DAYS.
  - CONTRACTOR TO NOTIFY THE CITY INSPECTOR AT 830-608-2100 EXT. 259 TO INSPECT ALL SOIL EROSION/CONSTRUCTION CONTROL STAKES.

- SOIL STABILIZATION PRACTICES:**
- HYDROMULCHING
  - TEMPORARY SEEDING
  - PERMANENT PLANTING, SODDING, OR SEEDING
  - MULCHING
  - SOIL RETENTION BLANKET
  - BUFFER ZONES
  - PRESERVATIVE OF NATURAL RESOURCES
- OTHER: \_\_\_\_\_

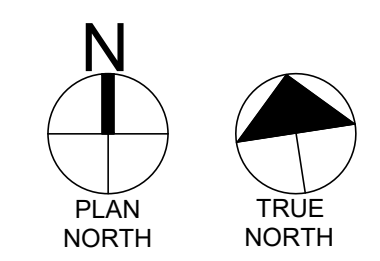
- STRUCTURAL PRACTICES:**
- SILT FENCES
  - HAY BALES
  - ROCK BERMS
  - DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
  - DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
  - DIVERSION DIKE AND SHALE COMBINATIONS
  - PIPE SLOPE DRAINS
  - PAVED FLUMES
  - ROCK BEDDING AT CONSTRUCTION EXIT
  - TIMBER MATING AT CONSTRUCTION EXIT
  - CHANNEL LINERS
  - SEDIMENT TRAPS
  - SEDIMENT BERMS
  - STORM INLET SEDIMENT TRAP
  - STONE OUTLET STRUCTURES
  - CURBS AND GUTTERS
  - STORM SEWERS
  - VELOCITY CONTROL DEVICES
- OTHER: \_\_\_\_\_

- SEQUENCE OF CONSTRUCTION SCHEDULE:**
- INSTALL SILT FENCE & INLET PROTECTION
  - EXISTING ITEMS TO BE REMOVED
  - CLEAR AND GRUB SITE AREAS
  - PRELIMINARY GRADING
  - PAVEMENT CONSTRUCTION
  - FINAL GRADING AND STABILIZATION
  - WHEN ALL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED AND APPROVED BY THE PROJECT ENGINEER AND CITY OF EDINBURG, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZE AREAS DISTURBED BY THEIR REMOVAL.

**NOTE:**  
PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION



## A1 | EROSION & SEDIMENT CONTROL PLAN



PROJECT NO.: 20030  
ISSUE DATE: 12/31/2021  
DRAWN BY: ES  
CHECKED BY: NL

EROSION & SEDIMENT CONTROL PLAN - ALTERNATE #2

Sheet Number  
**C6.00**

Project Status:  
100% CONSTRUCTION DOCUMENTS

**CDBG-CV HC HEALTH FACILITY IMPROVEMENTS**  
County of Hidalgo  
S 25th Ave., Edinburg, TX 78542

### GENERAL NOTES

1. THE GUIDELINES SHOW HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

#### SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

### PLANS SHEET LEGEND

- DI-ST DROP INLET SEDIMENT TRAP
- CI-ST CURB INLET SEDIMENT TRAP

#### SEDIMENT BASIN & TRAP USAGE GUIDELINES

A sediment trap may be used to precipitate sediment out of runoff draining from an unstabilized area.

Traps: the drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Sediment traps should be placed in the following locations:

- Immediately preceding drain inlets
- Just before the drainage enters a water course
- Just before the drainage leaves the right of way
- Just before the drainage leaves the construction limits where drainage flows away from the project

The trap should be cleaned when the capacity has been reduced by 1/2 or the sediment has accumulated to a depth of 1", whichever is less.

Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.

### GENERAL NOTES

- LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 30' FOR 12" DIAMETER LOGS.
- UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOGS WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
- STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
- STAKES SHALL BE 2" X 2" WOOD 4" LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG.
- COMPOST CRADLE MATERIAL IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.

### SECTION A-A

CONNECT THE ENDS OF SUCCESSIVE REINFORCEMENT SHEETS OF ROLLS A MIN. OF 6 TIMES WITH HOG RINGS

FASTEN FABRIC TO TOP STAND OF WELDED WIRE MESH (W.W.M.) BY HOG RINGS OR CORD AT A MAX. SPACING OF 15"

ATTACH THE W.W.M. AND FABRIC ON END POSTS USING 4 EVENLY SPACED STAPLES FOR WOODEN POST (OR 4 T-CRIPS OR SEMI VERTICAL POCKETS FOR STEEL POSTS) (TYPICAL)

PLACE 4" TO 6" OF FABRIC AGAINST THE TRENCH SIDE AND APPROX. 2" ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION. MINIMUM TRENCH SIZE SHALL BE 6" SQUARE, BACKFILL AND HAND TAMP.

### DROP INLET SEDIMENT TRAP

COMPLETELY SURROUND DRAINAGE ACCESS TO AREA DRAIN INLETS WITH EROSION CONTROL LOG

12" TEMP. EROSION CONTROL LOG

STAKE ON DOWNHILL SIDE OF LOG AS NEEDED TO HOLD IN PLACE (TYP)

### CONSTRUCTION EXIT (TYPE 1)

### CONSTRUCTION EXIT (TYPE 2)

### PLAN SHEET LEGEND

- SCF SEDIMENT CONTROL FENCE

### CONSTRUCTION EXIT (TYPE 3)

### GENERAL NOTES

- The length of the Type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
- The Type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the slots shown on the plans.
- The treated timber posts shall be #2 grade min., and should be free from large and loose knots.
- The guidelines shown herein are suggestions only and may be modified by the Engineer.

<b>STW-2</b> TEMPORARY SEDIMENT CONTROL FENCE - DETAILS SCALE: N.T.S.    REVISIONS: IP/PNL DATE: MARCH, 2014    DRAWN BY: RMM 2014 City of Edinburg Standards Manual    Page 165 of 169	<b>STW-4</b> TEMPORARY EROSION CONTROL LOGS - 2 SCALE: N.T.S.    REVISIONS: O.C. DATE: MARCH, 2014    DRAWN BY: RMM 2014 City of Edinburg Standards Manual    Page 167 of 169	<b>STW-5</b> TEMPORARY EROSION CONTROL CONSTRUCTION EXIT SCALE: N.T.S.    REVISIONS: O.C. DATE: MARCH, 2014    DRAWN BY: RMM 2014 City of Edinburg Standards Manual    Page 168 of 169
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# ATTACHMENT C

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## APPROVED WORK/PROJECT SCHEDULE

