Region One Education Service Center
1900 W. Schunior, Edinburg, TX 78541 ◆ Ph (956) 984-6000 ◆ Fax (956) 984-7655

Cornelio Gonzalez, Ph.D.
Executive Director

ADDENDUM #4

Date: March 9, 2019

Proposal Category: **Region One Education Service Center Edinburg Additions and Renovations**

Proposal Number: 19-AGENCY-000065

The Region One Education Service Center (ESC) is accepting proposals for **Region One Education Service Center Edinburg Additions and Renovations.**

Region One ESC is amending the following information to the Region One Education Service Center Edinburg Additions and Renovations Competitive Sealed Proposals (CSP) 19-AGENCY-000065 through this addendum:

- **Questions & Answers** – modified deadline Thursday, March 21, 2019, 2 PM CST
- **Revision to Proposal Due Date** – Thursday, March 28, 2019, 2 PM CST
- **Clarification Items** – Items C-1 – C-11
- **Specification Items** – Items S-1 – S-3
- **Plan Items** – Items P-1 – P-43

Questions/clarifications regarding this RFP must be submitted in writing through the "Bid Q&A" option located within the solicitation available through the eBuyOne website: https://esc1.buyspeed.com/bso/ no later than 2 PM, Thursday, March 21, 2019. Questions/clarifications regarding this RFP will not be answered by phone. It is the Respondent's responsibility to view the webpage regularly, or prior to submitting a response, to view any response(s) to question(s) issued for this solicitation.

Region One ESC Purchasing Department will receive proposals for **Region One Education Service Center Edinburg Additions and Renovations CSP 19-AGENCY-000065** electronically through the eBuyOne website: https://esc1.buyspeed.com/bso/ no later than 2 PM local time, Thursday, March 28, 2019. Late submittals will not be considered. *A paper/hardcopy is highly discouraged*; however, Region One ESC will be accepting sealed RFPs on USB or hardcopy through the mail or hand delivery to Region One ESC, 1900 W. Schunior St., Edinburg, Texas 78541 by the date and time specified, and it must be **clearly labeled** *Attention: Marc David Garcia, Purchasing Specialist – Region One Education Service Center Edinburg Additions and Renovations CSP 19-AGENCY-000065*. All sealed proposals received after the specified deadline shall be retained sealed and unopened until after a final award is made. After a final award is made, the Region One ESC may open the "late" or "disqualified" proposal and retain it as a public record which will be subject to the Texas Public Information Act A signed,

submitted proposal constitutes an offer to perform work and/or deliver the services specified in the procurement solicitation.

The ESC has a critical need for the work to begin on **May 1, 2019** and be substantially complete by **August 31, 2020 OR as fixed in the Notice to Proceed.**

The awarding of the proposal will take place at a public Region One ESC board meeting. The Board of Region One ESC reserves the right to accept, reject any and/or all proposals, waive minor technicalities, to award contracts for individual items as they may appear advantageous to the Region One ESC and its members or to award the proposal to the most responsible offeror which best serves the interest of the Region One ESC.

Sincerely,

Dr. Cornelio González

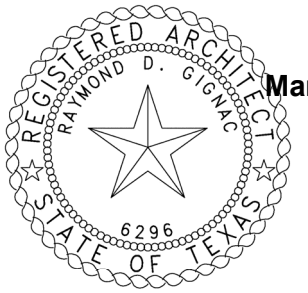
Dr. Cornelio Gonzalez
Executive Director

Connie Lopez

Connie Lopez, CPA
Deputy Director for Business Operations and Finance Support

ADDENDUM #4 must be acknowledged in eBuyOne for Region One Education Service Center Edinburg Additions and Renovations CSP 19-AGENCY-000065.

ADDENDUM NUMBER FOUR (4) **March 18th, 2019**
TO THE PLANS AND SPECIFICATIONS FOR:



EXPIRATION DATE
11/30/2019

REGION ONE EDUCATION SERVICE CENTER
EDINBURG ADDITIONS AND RENOVATIONS
1900 W. Schunior,
Edinburg, Texas 78541
Project No. 17.14

GIGNAC & ASSOCIATES
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
(361) 884-2661

GIGNAC & ASSOCIATES
8700 N. 10TH STREET SUITE 205
McALLEN, TEXAS 78501
(956) 686-0100

This addendum is generally separated into sections for convenience; however, all contractors, subcontractors, materialmen, 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, provided that the information is set forth any time, any place in this addendum. These documents shall be attached to and become a part of the contract documents for this project.

CLARIFICATION ITEMS :

Item C-1

Missing details for water, sanitary sewer, storm drainage and concrete paving. Information required to bid properly.

- **Details have been issued on Addendum #4.**

Item C-2

Provide size of folding partitions for all applicable rooms.

- **Detail at intersection by manufacturer. Size of folding partitions is being provided in Addendum #4.**

Item C-3

Substitution Request for Moderco

- **Substitution Request has been denied.**

Item C-4

Sheet CS1, CS2 & CS3 has Not to Scale. How are we to scale what the square foot for each type of CPT or any floor finishes?

- **Unless we issue dimensioned plans for floor finishes and/or provide a scale on the drawing, for the CPT in the Training Rooms, Sheet CS2 has a note 4 for border carpet that states "5' Borders Typ." may be sufficient to bid from when cross-referencing the dimensions on the floor plans.**

Item C-5

Will Alternate #1 (Training Rooms "F & G" floors be the same pattern as Training Rooms "A-E" as shown on sheet CS2?

- **Yes. Same Pattern, with 5'-0" wide borders around the entire perimeter of both rooms, except just 5'-0" border along the folding panel partition.**

Item C-6

CS2 shows Reception D112 different from sheet A-102. Which way will it be going?

- **Reference the Enlarged Floor Plan 1 on Sheet A-700 issued in Addendum #4 for the updated configuration of the room.**

Item C-7

Will Rooms D123 Food Prep, D114 MDF, D125 Riser Room, D126 Mech., D127 Elect. & D128 floors be concrete sealed, concrete stained, etc.? CS1 shows to have Base only.

- **A room finish schedule has been issued with Addendum #4.**

Item C-8

Alternate # 2 Existing Training Rooms into Offices Space. What kind of floor & base will be installed ? Example LVT, CPT #3, CPT #4, CPT #5, Base #1 or Base #2.

- **A room finish schedule has been issued with Addendum #4.**

Item C-9

Clarification on insulated standing seam metal roof-. Detail 5/A-314 identifies an insulated standing seam metal roof, however, in reviewing Wall Section 4/A307, Building Sections 1/A-301, 2/A-301, 3/A-301, 8/A-302, and Roof Plan Drawing Sheet A-400 do not identify this standing seam metal roof. Please provide clarification as to the extent of the insulated standing seam metal roof.

- **Clarification has been provided on Addendum #4**

Item C-10

Section 095113 acoustical panel ceilings and sheet A-409 ceiling plan. Plan sheet A-409 shows all training facilities to be 4x4 tile but spec shows 2x2 clarify which size to use. Armstrong doesn't make in 4x4

- **The design intent is Armstrong Metalworks 3D as specified.**

Item C-11

What type of screens are being requested? What type of projectors are being used? Is there a brand of speakers that is preferred? Will every room be controlled individually or all on one platform? Dimensions for requested rack? What is the goal for audio/video?

- **All information is provided in the construction documents.**

SPECIFICATION ITEMS :

Item S-1

Section 09 50 00 – Acoustical Metal Ceiling Blades.

Section 09 50 00 – Acoustical Metal Ceiling Blades attached here with shall become part of the Contract Documents.

Item S-2

Section 09 50 00 – OC-Acoustical Metal Ceiling Open Cell.

Section 09 50 00 – OC-Acoustical Metal Ceiling Open Cell attached here with shall become part of the Contract Documents.

Item S-3

Section 09 51 33 – Acoustical Metal Ceilings – 3D

Section 09 51 33 – Acoustical Metal Ceilings 3D attached here with shall become part of the Contract Documents.

Plan ITEMS :

Item P-1

Sheet C-3.0 – Water and Sewer Layout

Sheet C-3.0 – Water and Sewer Layout included within this addendum shall be added to become part of the construction documents and substitute C-3.0 – Water and Sewer Layout.

Item P-2

Sheet C-4.0 – Dimensional Control Site Plan

Sheet C-4.0 – Dimensional Control Site Plan included within this addendum shall be added to become part of the construction documents and substitute C-4.0 – Dimensional Control Site Plan.

Item P-3

Sheet C-5.0 – Paving and Drainage Plan

Sheet C-5.0 – Paving and Drainage Plan included within this addendum shall be added to become part of the construction documents and substitute C-5.0 – Paving and Drainage Plan.

Item P-4

Sheet C-6.0 – Erosion and Sediment Control Plan

Sheet C-6.0 – Erosion and Sediment Control Plan included within this addendum shall be added to become part of the construction documents and substitute C-6.0 – Erosion and Sediment Control Plan.

Item P-5

Sheet C-9.0 – Jointing Plan

Sheet C-9.0 – Jointing Plan included within this addendum shall be added to become part of the construction documents and C-9.0 – Jointing Plan.

Item P-6

Sheet A-105-R1– Miscellaneous Details

Sheet A-105-R1– Miscellaneous Details included within this addendum shall be added to become part of the construction documents and substitute A-105 Miscellaneous Details.

Item P-7

Sheet C-10.0 – Water Details

Sheet C-10.0 – Water Details included within this addendum shall be added to become part of the construction documents.

Item P-8

Sheet C-11.0 – Sewer Details

Sheet C-11.0 – Sewer Details included within this addendum shall be added to become part of the construction documents.

.

Item P-9

Sheet C-12.0 – Drainage Details

Sheet C-12.0 – Drainage Details included within this addendum shall be added to become part of the construction documents.

Item P-10

Sheet C-14.0 – Street Details

Sheet C-14.0 – Street Details included within this addendum shall be added to become part of the construction documents.

Item P-11

Sheet C-15.0 – Street Details

Sheet C-15.0 – Street Details included within this addendum shall be added to become part of the construction documents.

Item P-12

Sheet AS-101-R1– Architectural Site Plan

Sheet AS-101-R1– Architectural Site Plan included within this addendum shall be added to become part of the construction documents and substitute AS-101 Architectural Site Plan.

Item P-13

Sheet A-103-R1– Floor Plan – Training Facility W/ Alternate #1

Sheet A-103-R1– Floor Plan – Training Facility W/ Alternate #1 included within this addendum shall be added to become part of the construction documents and substitute A-103 – Floor Plan – Training Facility W/ Alternate #1.

Item P-14

Sheet A-106-R1– Enlarged Floor Plans

Sheet A-106-R1– Enlarged Floor Plans included within this addendum shall be added to become part of the construction documents and substitute A-106– Enlarged Floor Plans.

Item P-15

Sheet A-107-R1– Enlarged Floor Plans

Sheet A-107-R1– Enlarged Floor Plans included within this addendum shall be added to become part of the construction documents and substitute A-107– Enlarged Floor Plans.

Item P-16

Sheet A-202– Exterior Elevations

Detail 1 shown on sheet A-202 Exterior Elevations included within this addendum shall be added to Sheet A-202 Exterior Elevations and replace 1/A-202.

Item P-17

Sheet A-400-R1– Composite Roof Plan

Sheet A-400-R1– Composite Roof Plan included within this addendum shall be added to become part of the construction documents and substitute A-400– Composite Roof Plan.

Item P-18

Sheet A-403– Roof Details

Detail 5 shown on sheet A-403 Roof Details included within this addendum shall be added to Sheet A-403-Roof Details and become part of the construction documents.

Item P-19

Sheet A-407-R1– Composite Reflected Ceiling Plan

Sheet A-407-R1– Composite Reflected Ceiling Plan included within this addendum shall be added to become part of the construction documents and substitute A-407– Composite Reflected Ceiling Plan.

Item P-20

Sheet A-408-R1– Reflected Ceiling Plan – Training Facility

Sheet A-408-R1– Reflected Ceiling Plan – Training Facility included within this addendum shall be added to become part of the construction documents and substitute A-408– Reflected Ceiling Plan – Training Facility.

Item P-21

Sheet A-409-R1– Reflected Ceiling Plan – Training Facility w/ Alternate #1

Sheet A-409-R1– Reflected Ceiling Plan – Training Facility w/ Alternate #1 included within this addendum shall be added to become part of the construction documents and substitute A-409– Reflected Ceiling Plan – Training Facility w/ Alternate #1.

Item P-22

Sheet A–700 Millwork Details

Sheet A–700 Millwork Details included within this addendum shall be added to become part of the construction documents.

Item P-23

Sheet A–701 Finish Schedules

Sheet A–701 Finish Schedules included within this addendum shall be added to become part of the construction documents.

Item P-24

Sheet AV-110– Reflected Ceiling Plan – Training Facility

Sheet AV-110– Reflected Ceiling Plan – Training Facility included within this addendum shall be added to become part of the construction documents and AV-110– Reflected Ceiling Plan – Training Facility. Removed extra CAM locations so that location quantities match the functional details.

Item P-25

Sheet AV-111– Reflected Ceiling Plan – Training Facility W/ Alternate #1

1. Sheet AV-111– Reflected Ceiling Plan – Training Facility W/ Alternate #1 included within this addendum shall be added to become part of the construction documents and AV-111– Reflected Ceiling Plan – Training Facility W/ Alternate #1. Removed extra CAM locations so that location quantities match the functional details.

Item P-26

Sheet TL–110 Reflected Ceiling Plan – Training Facility

Sheet TL–110 Reflected Ceiling Plan – Training Facility included within this addendum shall be added to become part of the construction documents and TL–110 Reflected Ceiling Plan – Training Facility. Added lighting control zones 1C, 2A, and 5A.

Item P-27

Sheet MEP–101 MEP Roof Plan

Sheet MEP–101 MEP Roof Plan included within this addendum shall be added to become part of the construction documents and substitute MEP–101 MEP Roof Plan.

Item P-28

Sheet P–101 Plumbing Plan Training Facility

Sheet P–101 Plumbing Plan Training Facility included within this addendum shall be added to become part of the construction documents and substitute P–101 Plumbing Plan Training Facility.

Item P-29

Sheet P–102 Plumbing Plan Training Facility w/ Alternate #1

Sheet P–102 Plumbing Plan Training Facility w/ Alternate #1 included within this addendum shall be added to become part of the construction documents and substitute P–102 Plumbing Plan Training Facility w/ Alternate #1.

Item P-30

Sheet P–103 Plumbing Plan – Offices, Café, Alternate and Mezzanine

Sheet P–103 Plumbing Plan – Offices, Café, Alternate and Mezzanine included within this addendum shall be added to become part of the construction documents and substitute P–103 Plumbing Plan – Offices, Café, Alternate and Mezzanine.

Item P-31

Sheet P–303 Plumbing Risers

Sheet P–303 Plumbing Risers included within this addendum shall be added to become part of the construction documents and substitute P–303 Plumbing Risers.

Item P-32

Sheet M–100 Mechanical Plan

Sheet M–100 Mechanical Plan included within this addendum shall be added to become part of the construction documents and substitute M–100 Mechanical Plan.

Item P-33

Sheet M–300 Mechanical Schedules

Sheet M–300 Mechanical Schedules included within this addendum shall be added to become part of the construction documents and substitute M–300 Mechanical Schedules.

Item P-34

Sheet ES–100 Electrical Site Plan, Enlargement, Alternate #4 and Details

Sheet ES–100 Electrical Site Plan, Enlargement, Alternate #4 and Details included within this addendum shall be added to become part of the construction documents and substitute ES–100 Electrical Site Plan, Enlargement, Alternate #4 and Details.

Item P-35

Sheet E–100 Electrical Lighting Plan

Sheet E–100 Electrical Lighting Plan included within this addendum shall be added to become part of the construction documents and substitute E–100 Electrical Lighting Plan.

Item P-36

Sheet E–101 Electrical Lighting Plan

Sheet E–101 Electrical Lighting Plan included within this addendum shall be added to become part of the construction documents and substitute E–101 Electrical Lighting Plan.

Item P-37

Sheet E–102 Electrical Lighting Plan – Alternates & Mezzanine

Sheet E–102 Electrical Lighting Plan – Alternates & Mezzanine included within this addendum shall be added to become part of the construction documents and substitute E–102 Electrical Lighting Plan – Alternates & Mezzanine.

Item P-38

Sheet E–103 Electrical Power Plan

Sheet E–103 Electrical Power Plan included within this addendum shall be added to become part of the construction documents and substitute E–103 Electrical Power Plan.

Item P-39

Sheet E–104 Electrical Power Plan

Sheet E–104 Electrical Power Plan included within this addendum shall be added to become part of the construction documents and substitute E–104 Electrical Power Plan.

Item P-40

Sheet E–105 Electrical Power Plan – Alternates & Mezzanine

Sheet E–105 Electrical Power Plan – Alternates & Mezzanine included within this addendum shall be added to become part of the construction documents and substitute E–105 Electrical Power Plan – Alternates & Mezzanine.

Item P-41

Sheet E–200 Electrical Panel Schedules

Sheet E–200 Electrical Panel Schedules included within this addendum shall be added to become part of the construction documents and substitute E–200 Electrical Panel Schedules.

Item P-42

Sheet E–201 Electrical Panel Schedules

Sheet E–201 Electrical Panel Schedules included within this addendum shall be added to become part of the construction documents and substitute E–201 Electrical Panel Schedules.

Item P-43

Sheet E–300 Light Fixture Schedule & Electrical General Legend

Sheet E–300 Light Fixture Schedule & Electrical General Legend included within this addendum shall be added to become part of the construction documents and substitute E–300 Light Fixture Schedule & Electrical General Legend.

SECTION 09 50 00 – ACOUSTICAL METAL CEILINGS - BLADES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Section Includes

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section

1.2 SUMMARY

A. Section Includes

1. Acoustical metal ceiling panels
2. Exposed grid suspension system
3. Wire hangers, fasteners, main runners, cross tees, and wall angle moldings
4. Perimeter Trim

B. Related Sections:

1. Section 09 51 33.13 Acoustical Snap In Metal Pan Ceiling
2. Section 09 20 00 (09250) - Plaster and Gypsum Board
3. Section 09 51 13 (09500) - Acoustical Fabric-Faced Panel Ceilings
4. Section 09 53 00 (09500) - Acoustical Ceiling Suspension Assemblies
5. Section 01 81 13 - Sustainable Design Requirements
6. Section 01 81 19 - Indoor Air Quality Requirements
7. Section 09 54 00 Specialty Ceilings
8. Divisions 23 - HVAC Air Distribution
9. Division 26 - Electrical

1.3 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
2. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
3. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process
4. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
5. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
6. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels
7. ASTM D 3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
8. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials
9. ASTM E 580 Installation of Metal Suspension Systems in Areas Requiring Moderate Seismic Restraint
10. ASTM E 1111 Standard Test Method for Measuring the Interzone Attenuation of Ceilings Systems
11. ASTM E 1414 Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum
12. ASTM E 1264 Classification for Acoustical Ceiling Products

B. International Building Code

C. ASHRAE Standard 62 1 2004 Ventilation for Acceptable Indoor Air Quality

D. NFPA 70 National Electrical Code

E. ASCE 7 American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures
F. International Code Council-Evaluation Services - AC 156 Acceptance Criteria for Seismic Qualification Testing of Non-structural Components
G. International Code Council-Evaluation Services Report - Seismic Engineer Report
1. ESR 1308 - Armstrong Suspension Systems
H. International Association of Plumbing and Mechanical Officials - Seismic Engineer Report
1. 0244 - Armstrong Single Span Suspension System
I. California Department of Public Health CDPH/EHLB Emission Standard Method Version 1.1 2010
J. LEED - Leadership in Energy and Environmental Design is a set of rating systems for the design, construction, operation, and maintenance of green buildings
K. International Well Building Standard
L. Mindful Materials
M. Living Building Challenge
N. U.S. Department of Agriculture BioPreferred program (USDA BioPreferred).

1.4 SYSTEM DESCRIPTION

Discontinuous/Open Plenum

1.5 SUBMITTALS

A. Product Data: Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
B. Samples: Minimum 6 inch x 6 inch samples of specified acoustical panel; 8 inch long samples of exposed wall molding and suspension system, including main runner and 4 foot cross tees.
C. Shop Drawings: Layout and details of acoustical ceilings show locations of items that are to be coordinated with, or supported by the ceilings.
D. Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards. For acoustical performance, each carton of material must carry an approved independent laboratory classification of NRC, CAC, and AC.
E. If the material supplied by the acoustical subcontractor does not have an Underwriter's Laboratory classification of acoustical performance on every carton, subcontractor shall be required to send material from every production run appearing on the job to an independent or NVLAP approved laboratory for testing, at the architect's or owner's discretion. All products not conforming to manufacturer's current published values must be removed, disposed of and replaced with complying product at the expense of the Contractor performing the work.

1.6 SUSTAINABLE MATERIALS

Transparency: Manufacturers will be given preference when they provide documentation to support sustainable requirements for the following: Material ingredient transparency, Removal of Red List Ingredients per LBCV3, Life Cycle impact information, Low-Emitting Materials, and Clean Air performance.
1. Health Product Declaration. The end use product has a published, complete Health Product Declaration with disclosure at a minimum of 1000ppm of known hazards in compliance with the Health Product Declaration open Standard.
2. Declare Label. The end use product has a published Declare label by the International Living Future Institute with disclosure of 100 ppm with a designation of Red List Free or Compliant (less than 1% proprietary ingredients).
3. Low Emitting products with VOC emissions data. Preference will also be given to manufacturers that can provide emissions data showing their products meet CDHP Standard Method v1.1 (Section 01350).
4. Life cycle analysis. Products that have communicated lifecycle data through Environmental Product Declarations (EPDs) will be preferred.

5. End of Life Programs/Recycling: Where applicable, manufacturers that provide the option for recycling of their products into new products at end-of-life through take-back programs will be preferred.
6. Products meeting LEED V4 requirements including:
    Storage & Collection of Recyclables
    Construction and Demolition Waste Management Planning
    Building Life-Cycle Impact Reduction
    Building Product Disclosure and Optimization Environmental Product Declarations
    Building Product Disclosure and Optimization Sourcing of Raw Materials
    Building Product Disclosure and Optimization Material Ingredients
    Construction and Demolition Waste Management

1.7 QUALITY ASSURANCE

A. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.

B. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.

a. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 Classification.

C. Acoustic Panels: As with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern through possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, or their local codes for guidance where automatic fire detection and suppression systems are present.

D. Coordination of Work: Coordinate acoustical ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

1.8 DELIVERY, STORAGE AND HANDLING

A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.

B. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.

C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.9 PROJECT CONDITIONS

A. Space Enclosure:

Standard Ceilings: Do not install interior ceilings until space is enclosed and weatherproof; wet work in place is completed and nominally dry; work above ceilings is complete; and ambient conditions of temperature and humidity are continuously maintained at values near those intended for final occupancy. Building areas to receive ceilings shall be free of construction dust and debris.
HumiGuard Plus Ceilings: Building areas to receive ceilings shall be free of construction dust and debris. Products with HumiGuard Plus performance and hot dipped galvanized steel, aluminum or stainless steel suspension systems can be installed up to 120°F (49°C) and in spaces before the building is enclosed, where HVAC systems are cycled or not operating. Cannot be used in exterior applications where standing water is present or where moisture will come in direct contact with the ceiling.

HumiGuard Max Ceilings: Building areas to receive ceilings shall be free of construction dust and debris. Ceilings with HumiGuard Max performance can be installed in conditions up to 120°F (49°C) and maximum humidity exposure including outdoor applications, and other standing water applications, so long as they are installed with either SS Prelude Plus, AL Prelude Plus, or Prelude Plus Fire Guard XL suspension systems. Products with Humiguard Max performance can be installed in exterior applications, where standing water is present, or where moisture will

come in direct contact with the ceiling. Only Ceramaguard with AL Prelude Plus suspension system can be installed over swimming pools.

1.10 WARRANTY

A. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include, but are not limited to the following:

1. Acoustical Panels: Sagging and warping
2. Grid System: Rusting and manufacturer's defects

B. Warranty Period:

1. Acoustical Metal panels: One (1) year from date of substantial completion
2. Grid: Ten (10) years from date of substantial completion

C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

1.11 MAINTENANCE

A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.

1. Acoustical Metal Ceiling Units: Furnish quality of full-size units equal to 5.0 percent of amount installed.
2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 2.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Metal Ceiling Panels:

1. Armstrong World Industries, Inc. – Basis of Design

B. Suspension Systems:

1. Armstrong World Industries, Inc. – Basis of Design

C. Aluminum Custom Trims:

1. Armstrong World Industries, Inc. – Basis of Design

2.2.1 ACOUSTICAL CEILING UNITS

A. Acoustical Panels Type AMP

1. Acoustical Panels Type AMP-1:
   a. Surface Texture: Smooth
   b. Composition: Metal
   c. Color: Whitelume
   d. Size: 4 in x 96 in
   e. Edge Profile: 15/16 in for interface with 360 Painted Grid grid.
   f. Perforation Option: Unperforated
   g. Flame Spread: ASTM E 1264; Class A (HPVA).
   h. Light Reflectance (LR) White Panel: ASTM E 1477; 0.77.
   i. Dimensional Stability: Standard
   j. Material Ingredient Transparency: Health Product Declaration (HPD)
   k. Basis of Design: MetalWorks Blades – Classics, 7202M1
2. Metal Panel Accessories:
   1. 7204 - MetalWorks Blades Attachment Clip
   2. 7205 - MetalWorks Blades Alignment Device
   3. 8158 - MW Blades - Classics Field Cut End Cap

2.3.1 METAL SUSPENSION SYSTEMS

A. Components:

Main beams and cross tees, base metal and end detail, fabricated from commercial quality hot dipped galvanized steel complying with ASTM A 653. Main beams and cross tees are double-web

steel construction with type exposed flange design. Exposed surfaces chemically cleansed, capping prefinished galvanized steel in baked polyester paint. Main beams and cross tees shall have rotary stitching.

a. Structural Classification: ASTM C 635 Heavy Duty duty

b. Color: Tech Blackand match the actual color of the selected ceiling tile, unless noted otherwise.

c. Basis of Design: 360 Painted Grid as manufactured by Armstrong World Industries

B. Attachment Devices:

Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.

C. Wire for Hangers and Ties:

ASTM A 641, Class 1 zinc coating, soft annealed, with a yield stress load of at least times three design load, but not less than 12 gauge.

D. Edge Moldings and Trim:

E. Accessories:

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations. (Exception: HumiGuard Max Ceilings)

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

B. Coordination: Furnish layouts for preset inserts, clips, and other ceiling anchors whose installation is specified in other sections.

1. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

3.3 INSTALLATION

A. Follow manufacturer installation instructions

B. Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.

C. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.

D. For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.

E. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

F. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

3.4 ADJUSTING AND CLEANING

A. Replace damaged and broken panels.

B. Clean exposed surfaces of ceilings panels, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09 50 00

END OF SECTION 09 50 00

SECTION 09 50 00 OC – ACOUSTICAL METAL CEILINGS – OPEN CELL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Section Includes

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section

1.2 SUMMARY

A. Section Includes

1. Acoustical metal ceiling panels
2. Exposed grid suspension system
3. Wire hangers, fasteners, main runners, cross tees, and wall angle moldings
4. Perimeter Trim

B. Related Sections:

1. Section 09 51 33.13 Acoustical Snap In Metal Pan Ceiling
2. Section 09 20 00 (09250) - Plaster and Gypsum Board
3. Section 09 51 13 (09500) - Acoustical Fabric-Faced Panel Ceilings
4. Section 09 53 00 (09500) - Acoustical Ceiling Suspension Assemblies
5. Section 01 81 13 - Sustainable Design Requirements
6. Section 01 81 19 - Indoor Air Quality Requirements
7. Section 09 54 00 Specialty Ceilings
8. Divisions 23 - HVAC Air Distribution
9. Division 26 - Electrical

1.3 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
2. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
3. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process
4. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
5. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
6. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels
7. ASTM D 3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
8. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials

9. ASTM E 580 Installation of Metal Suspension Systems in Areas Requiring Moderate Seismic Restraint

10. ASTM E 1111 Standard Test Method for Measuring the Interzone Attenuation of Ceilings Systems

11. ASTM E 1414 Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum

12. ASTM E 1264 Classification for Acoustical Ceiling Products

B. International Building Code

C. ASHRAE Standard 62 1 2004 Ventilation for Acceptable Indoor Air Quality

D. NFPA 70 National Electrical Code

E. ASCE 7 American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures

F. International Code Council-Evaluation Services - AC 156 Acceptance Criteria for Seismic Qualification Testing of Non-structural Components

G. International Code Council-Evaluation Services Report - Seismic Engineer Report

1. ESR 1308 - Armstrong Suspension Systems

H. International Association of Plumbing and Mechanical Officials - Seismic Engineer Report

1. 0244 - Armstrong Single Span Suspension System

I. California Department of Public Health CDPH/EHLB Emission Standard Method Version 1.1 2010

J. LEED - Leadership in Energy and Environmental Design is a set of rating systems for the design, construction, operation, and maintenance of green buildings

K. International Well Building Standard

L. Mindful Materials

M. Living Building Challenge

N. U.S. Department of Agriculture BioPreferred program (USDA BioPreferred).

1.4 SYSTEM DESCRIPTION

Discontinuous/Open Plenum

1.5 SUBMITTALS

A. Product Data: Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.

B. Samples: Minimum 6 inch x 6 inch samples of specified acoustical panel; 8 inch long samples of exposed wall molding and suspension system, including main runner and 4 foot cross tees.

C. Shop Drawings: Layout and details of acoustical ceilings show locations of items that are to be coordinated with, or supported by the ceilings.

D. Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards. For acoustical performance, each carton of material must carry an approved independent laboratory classification of NRC, CAC, and AC.

E. If the material supplied by the acoustical subcontractor does not have an Underwriter's Laboratory classification of acoustical performance on every carton, subcontractor shall be required to send material from every production run appearing on the job to an independent or NVLAP approved laboratory for testing, at the architect's or owner's discretion. All products not conforming to manufacturer's current published values must be removed, disposed of and replaced with complying product at the expense of the Contractor performing the work.

1.6 QUALITY ASSURANCE

A. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.

B. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.

a. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 Classification.

C. Acoustic Panels: As with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern through possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection en gineer, NFPA 13, or their local codes for guidance where automatic fire detection and suppression systems are present.
D. Coordination of Work: Coordinate acoustical ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
B. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.
C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.8 PROJECT CONDITIONS

A. Space Enclosure:

Standard Ceilings: Do not install interior ceilings until space is enclosed and weatherproof; wet work in place is completed and nominally dry; work above ceilings is complete; and ambient conditions of temperature and humidity are continuously maintained at values near those intended for final occupancy. Building areas to receive ceilings shall be free of construction dust and debris.

HumiGuard Plus Ceilings: Building areas to receive ceilings shall be free of construction dust and debris. Products with HumiGuard Plus performance and hot dipped galvanized steel, aluminum or stainless steel suspension systems can be installed up to 120°F (49°C) and in spaces before the building is enclosed, where HVAC systems are cycled or not operating. Cannot be used in exterior applications where standing water is present or where moisture will come in direct contact with the ceiling.

HumiGuard Max Ceilings: Building areas to receive ceilings shall be free of construction dust and debris. Ceilings with HumiGuard Max performance can be installed in conditions up to 120°F (49°C) and maximum humidity exposure including outdoor applications, and other standing water applications, so long as they are installed with either SS Prelude Plus, AL Prelude Plus, or Prelude Plus Fire Guard XL suspension systems. Products with Humiguard Max performance can be installed in exterior applications, where standing water is present, or where moisture will come in direct contact with the ceiling. Only Ceramaguard with AL Prelude Plus suspension system can be installed over swimming pools.

1.9 WARRANTY

A. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include, but are not limited to the following:
1. Acoustical Panels: Sagging and warping
2. Grid System: Rusting and manufacturer's defects
B. Warranty Period:
1. Acoustical Metal panels: One (1) year from date of substantial completion
2. Grid: Ten (10) years from date of substantial completion
C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

1.10 MAINTENANCE

A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.

1. Acoustical Metal Ceiling Units: Furnish quality of full-size units equal to 5.0 percent of amount installed.

2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 2.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Metal Ceiling Panels:

1. Armstrong World Industries, Inc. – Basis of Design

B. Suspension Systems:

1. Armstrong World Industries, Inc. – Basis of Design

C. Aluminum Custom Trims:

1. Armstrong World Industries, Inc. – Basis of Design

2.2 ACOUSTICAL CEILING UNITS

A. Acoustical Panels Type AMP

1. Acoustical Panels Type AMP-1:

a. Surface Texture: Open Cell

b. Composition: Metal

c. Color: White

d. Size: 24 in x 24 in

e. Edge Profile: Square Lay-In 9/16 in for interface with SUPRAFINE XL 9/16" Exposed Tee grid.

f. Perforation Option: Open Cell

g. Flame Spread: ASTM E 1264; Class A (IBC).

h. Light Reflectance (LR) White Panel: ASTM E 1477; .

i. Dimensional Stability: Standard

j. Basis of Design Product: MetalWorks Open Cell, 6194

2. Metal Panel Accessories:

2.3 METAL SUSPENSION SYSTEMS

A. Components:

Main beams and cross tees, base metal and end detail, fabricated from commercial quality hot dipped galvanized steel complying with ASTM A 653. Main beams and cross tees are double-web steel construction with type exposed flange design. Exposed surfaces chemically cleansed, capping prefinished galvanized steel in baked polyester paint. Main beams and cross tees shall have rotary stitching.

a. Structural Classification: ASTM C 635 Heavy Duty

b. Color: Whitesand match the actual color of the selected ceiling tile, unless noted otherwise.

c. Basis of Design Product: Suprafine XL 9/16” Exposed Tee

B. Attachment Devices:

Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.

C. Wire for Hangers and Ties:

ASTM A 641, Class 1 zinc coating, soft annealed, with a yield stress load of at least times three design load, but not less than 12 gauge.

D. Edge Moldings and Trim:

E. Accessories: 7901 - 9/16" Shadow Reveal Transition Molding

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations. (Exception: HumiGuard Max Ceilings)

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

B. Coordination: Furnish layouts for preset inserts, clips, and other ceiling anchors whose installation is specified in other sections.

1. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

3.3 INSTALLATION

A. Follow manufacturer installation instructions

B. Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.

C. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.

D. For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.

E. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

F. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

3.4 ADJUSTING AND CLEANING

A. Replace damaged and broken panels.

B. Clean exposed surfaces of ceilings panels, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTIO 09 50 00 - OC

SECTION 09 51 33 – ACOUSTICAL METAL CEILINGS – 3D

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Section Includes

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section

1.2 SUMMARY

A. Section Includes

1. Acoustical metal ceiling panels
2. Exposed grid suspension system
3. Wire hangers, fasteners, main runners, cross tees, and wall angle moldings
4. Perimeter Trim

B. Related Sections:

1. Section 09 51 33.13 Acoustical Snap In Metal Pan Ceiling
2. Section 09 20 00 (09250) - Plaster and Gypsum Board
3. Section 09 51 13 (09500) - Acoustical Fabric-Faced Panel Ceilings
4. Section 09 53 00 (09500) - Acoustical Ceiling Suspension Assemblies
5. Section 01 81 13 - Sustainable Design Requirements
6. Section 01 81 19 - Indoor Air Quality Requirements
7. Section 09 54 00 Specialty Ceilings
8. Divisions 23 - HVAC Air Distribution
9. Division 26 - Electrical

1.3 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
2. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
3. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process
4. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
5. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
6. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels
7. ASTM D 3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
8. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials
9. ASTM E 580 Installation of Metal Suspension Systems in Areas Requiring Moderate Seismic Restraint
10. ASTM E 1111 Standard Test Method for Measuring the Interzone Attenuation of Ceilings Systems
11. ASTM E 1414 Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum
12. ASTM E 1264 Classification for Acoustical Ceiling Products

B. International Building Code

C. ASHRAE Standard 62 1 2004 Ventilation for Acceptable Indoor Air Quality

D. NFPA 70 National Electrical Code

E. ASCE 7 American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures

F. International Code Council-Evaluation Services - AC 156 Acceptance Criteria for Seismic Qualification Testing of Non-structural Components

G. International Code Council-Evaluation Services Report - Seismic Engineer Report
1. ESR 1308 - Armstrong Suspension Systems
H. International Association of Plumbing and Mechanical Officials - Seismic Engineer Report
1. 0244 - Armstrong Single Span Suspension System
I. California Department of Public Health CDPH/EHLB Emission Standard Method Version 1.1 2010
J. LEED - Leadership in Energy and Environmental Design is a set of rating systems for the design, construction, operation, and maintenance of green buildings
K. International Well Building Standard
L. Mindful Materials
M. Living Building Challenge
N. U.S. Department of Agriculture BioPreferred program (USDA BioPreferred).

1.4 SYSTEM DESCRIPTION

Discontinuous/Open Plenum

1.5 SUBMITTALS

A. Product Data: Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
B. Samples: Minimum 6 inch x 6 inch samples of specified acoustical panel; 8 inch long samples of exposed wall molding and suspension system, including main runner and 4 foot cross tees.
C. Shop Drawings: Layout and details of acoustical ceilings show locations of items that are to be coordinated with, or supported by the ceilings.
D. Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards. For acoustical performance, each carton of material must carry an approved independent laboratory classification of NRC, CAC, and AC.
E. If the material supplied by the acoustical subcontractor does not have an Underwriter's Laboratory classification of acoustical performance on every carton, subcontractor shall be required to send material from every production run appearing on the job to an independent or NVLAP approved laboratory for testing, at the architect's or owner's discretion. All products not conforming to manufacturer's current published values must be removed, disposed of and replaced with complying product at the expense of the Contractor performing the work.

1.6 QUALITY ASSURANCE

A. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.
B. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.
a. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 Classification.
C. Acoustic Panels: As with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern through possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection en gineer, NFPA 13, or their local codes for guidance where automatic fire detection and suppression systems are present.
D. Coordination of Work: Coordinate acoustical ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
B. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.
C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.8 PROJECT CONDITIONS

A. Space Enclosure:

Standard Ceilings: Do not install interior ceilings until space is enclosed and weatherproof; wet work in place is completed and nominally dry; work above ceilings is complete; and ambient conditions of temperature and humidity are continuously maintained at values near those intended for final occupancy. Building areas to receive ceilings shall be free of construction dust and debris.
HumiGuard Plus Ceilings: Building areas to receive ceilings shall be free of construction dust and debris. Products with HumiGuard Plus performance and hot dipped galvanized steel, aluminum or stainless steel suspension systems can be installed up to 120°F (49°C) and in spaces before the building is enclosed, where HVAC systems are cycled or not operating. Cannot be used in exterior applications where standing water is present or where moisture will come in direct contact with the ceiling.
HumiGuard Max Ceilings: Building areas to receive ceilings shall be free of construction dust and debris. Ceilings with HumiGuard Max performance can be installed in conditions up to 120°F (49°C) and maximum humidity exposure including outdoor applications, and other standing water applications, so long as they are installed with either SS Prelude Plus, AL Prelude Plus, or Prelude Plus Fire Guard XL suspension systems. Products with Humiguard Max performance can be installed in exterior applications, where standing water is present, or where moisture will come in direct contact with the ceiling. Only Ceramaguard with AL Prelude Plus suspension system can be installed over swimming pools.

1.9 WARRANTY

A. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include, but are not limited to the following:

1. Acoustical Panels: Sagging and warping
2. Grid System: Rusting and manufacturer's defects

B. Warranty Period:

1. Acoustical Metal panels: One (1) year from date of substantial completion
2. Grid: Ten (10) years from date of substantial completion

C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

1.10 MAINTENANCE

A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.

1. Acoustical Metal Ceiling Units: Furnish quality of full-size units equal to 5.0 percent of amount installed.

2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 2.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Metal Ceiling Panels:

1. Armstrong World Industries, Inc. – Basis of Design

B. Suspension Systems:

1. Armstrong World Industries, Inc. – Basis of Design

C. Aluminum Custom Trims:

1. Armstrong World Industries, Inc. – Basis of Design

2.2 ACOUSTICAL CEILING UNITS

A. Acoustical Panels Type AMP

1. Acoustical Panels Type AMP-1:
    a. Surface Texture: Smooth
    b. Composition: Metal
    c. Color: To be selected by Architect from Mfgr.'s full range
    d. Size: 24 in x 24 in
    e. Edge Profile: Square Up Tegular 9/16 in for interface with SUPRAFINE XL 9/16" Exposed Tee grid.
    f. Perforation Option: Round - Diagonal
    g. Noise Reduction Coefficient (NRC): ASTM C 423; Classified with UL label on product carton 0.70
    h. Flame Spread: ASTM E 1264; Class A (painted) / Class B (laminate).
    i. Light Reflectance (LR) White Panel: ASTM E 1477; 0.61.
    j. Dimensional Stability: Standard
    k. Basis of Design Product: MetalWorks 3D
2. Metal Panel Accessories:
    a. 5823 - BioAcoustic Infill Panel (Black - Matte)

2.3 METAL SUSPENSION SYSTEMS

A. Components:

Main beams and cross tees, base metal and end detail, fabricated from commercial quality hot dipped galvanized steel complying with ASTM A 653. Main beams and cross tees are double-web steel construction with type exposed flange design. Exposed surfaces chemically cleansed, capping prefinished galvanized steel in baked polyester paint. Main beams and cross tees shall have rotary stitching.

a. Structural Classification: ASTM C 635 Heavy Duty duty

b. Color: Tech Blackand match the actual color of the selected ceiling tile, unless noted otherwise.

c. Basis of Design Product: Suprafine XL 9/16" Exposed Tee

B. Attachment Devices:

Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.

C. Wire for Hangers and Ties:

ASTM A 641, Class 1 zinc coating, soft annealed, with a yield stress load of at least times three design load, but not less than 12 gauge.

D. Edge Moldings and Trim: To be selected by Architect

E. Accessories: 7901 - 9/16" Shadow Reveal Transition Molding

2.4 ALUMINUM CUSTOM TRIM - EXTRUDED

Product/Manufacturer: Axiom Trim Channel: 6in Axiom Vector Straight Armstrong World Industries, Incorporated

A. Commercial quality extruded aluminum alloy 6063 trim channel, factory finished in baked polyester paint. Commercial quality galvanized steel unfinished T-bar connection clips; galvanized steel splice plates.

1. Color: Brushed Bright or as selected by Architect from mfgr's full range
2. Size: 120 in X 6 in
3. Basis of Design Product: Axiom Vector, 6in Axiom Vector Straight

B. Axiom Trim Channel:

6in Axiom Vector Straight

C. Axiom Outside Corner Posts (Straight Only): 2in Axiom Vector Outside Corner Post 360 Painted

D. Axiom Accessories:

1. AX4SPLICE - Splice Plate with Setscrews

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations. (Exception: HumiGuard Max Ceilings)

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

B. Coordination: Furnish layouts for preset inserts, clips, and other ceiling anchors whose installation is specified in other sections.

1. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

3.3 INSTALLATION

A. Follow manufacturer installation instructions

B. Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.

C. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.

D. For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.

E. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

F. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

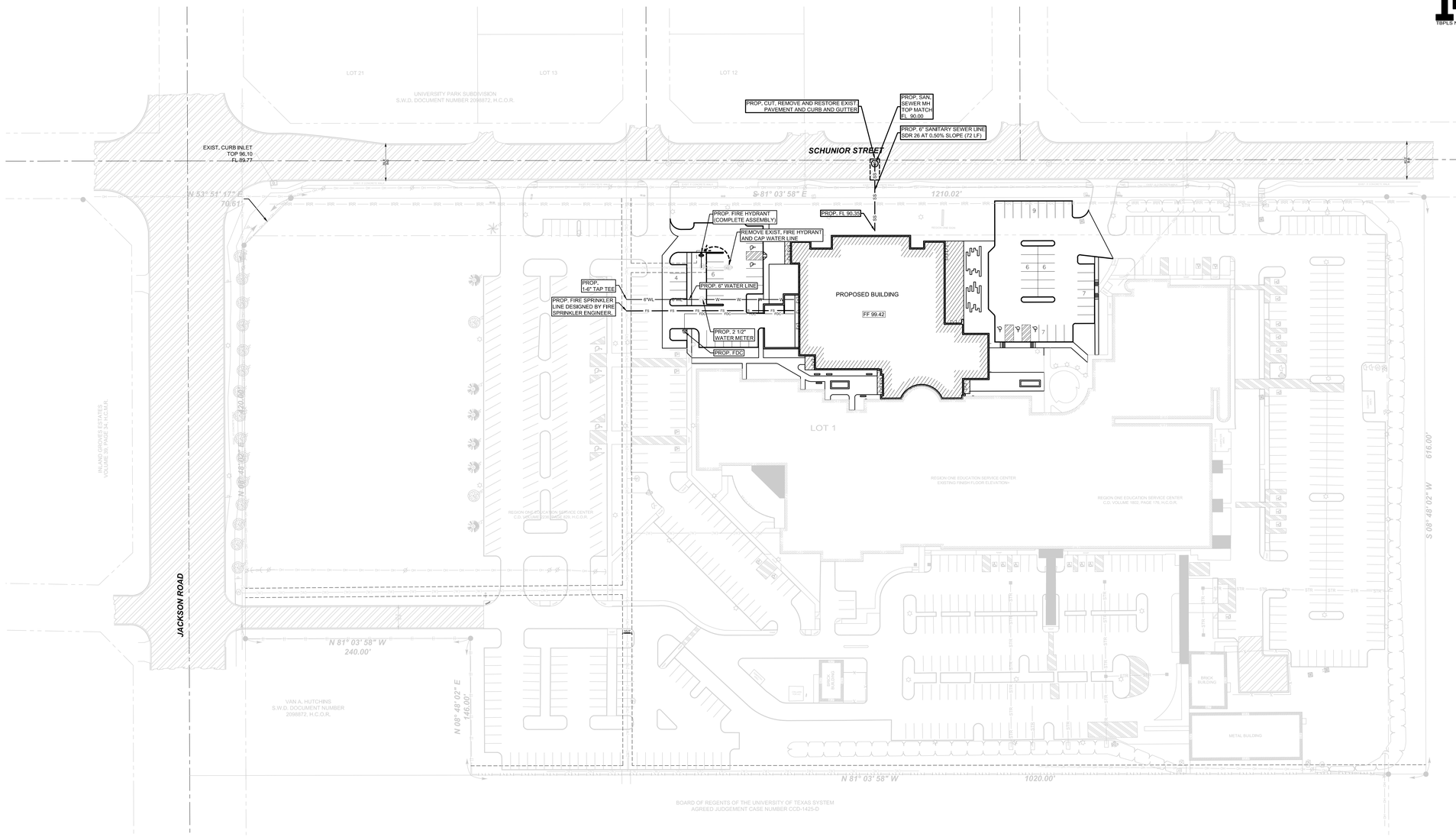
3.4 ADJUSTING AND CLEANING

A. Replace damaged and broken panels.

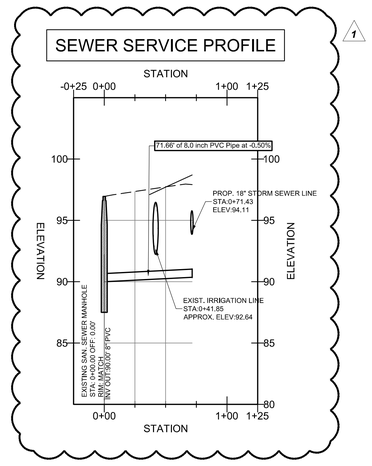
B. Clean exposed surfaces of ceilings panels, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

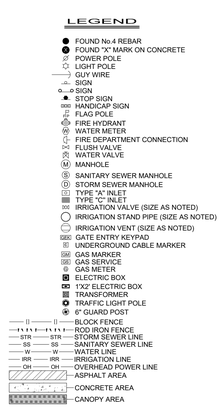
END OF SECTION 09 51 33

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
TBPLS No. 10096900
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com



SCALE:1" = 50'





ADDENDUM #4

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435
STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368
03-14-2019

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

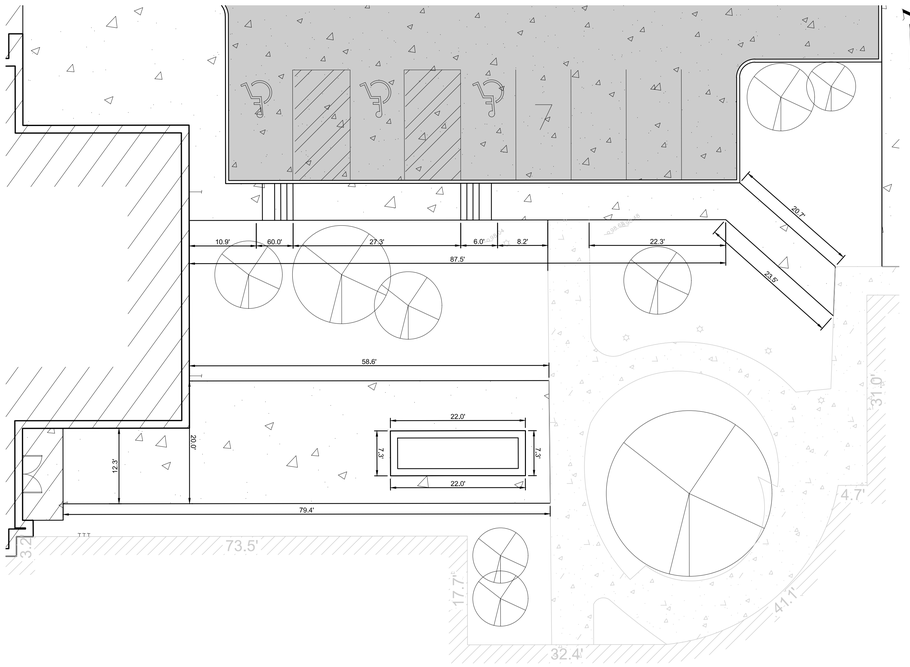
Revisions:

No.	Description	Date
1	REVISED PROFILE	03-14-19

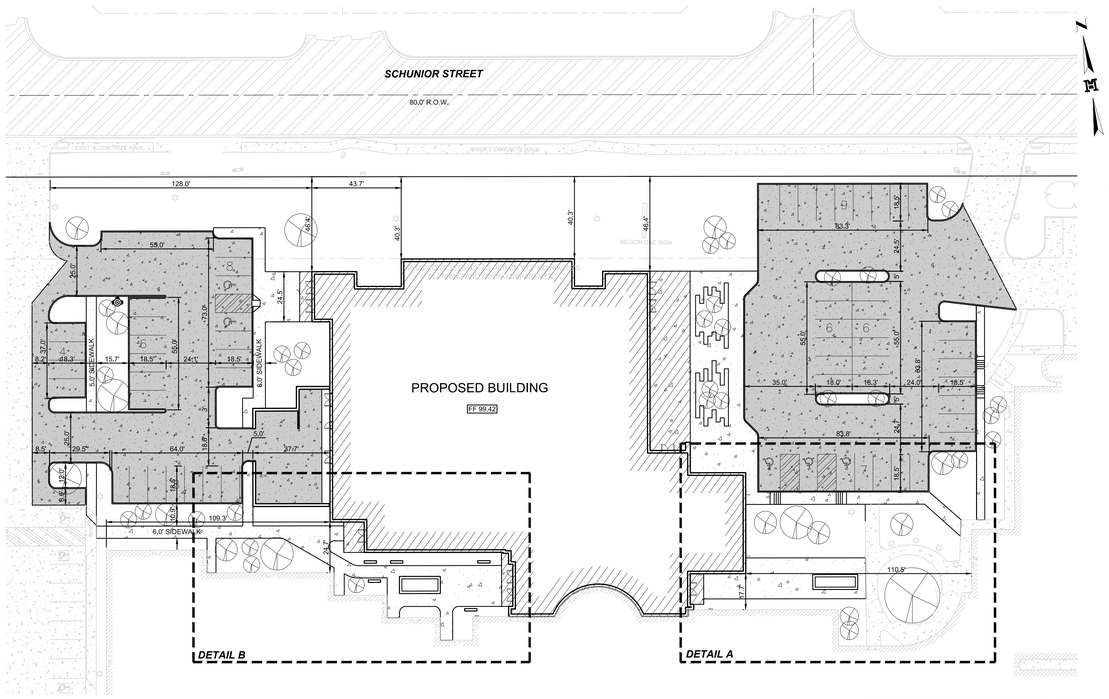
Sheet Title:
WATER AND SEWER LAYOUT

C-3.0

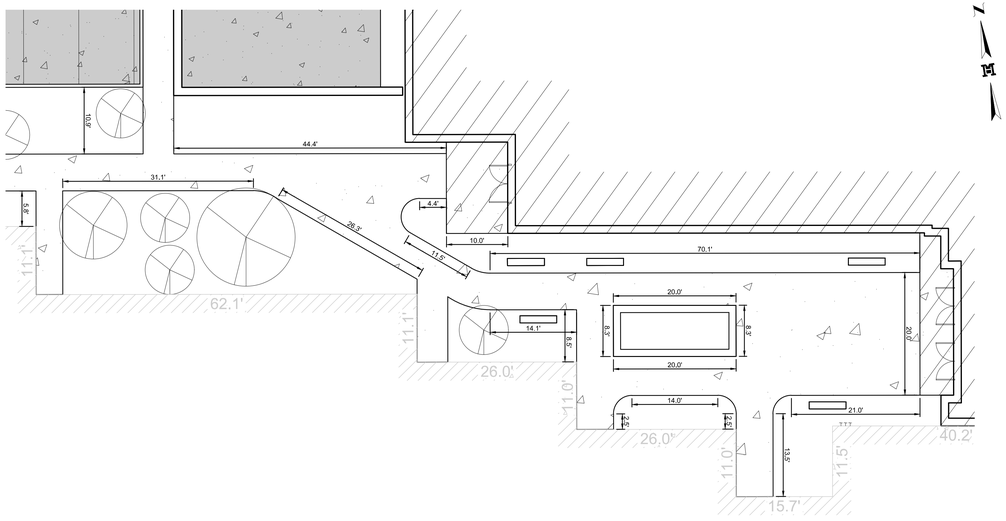
MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
TBPLS No. 10096900
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com



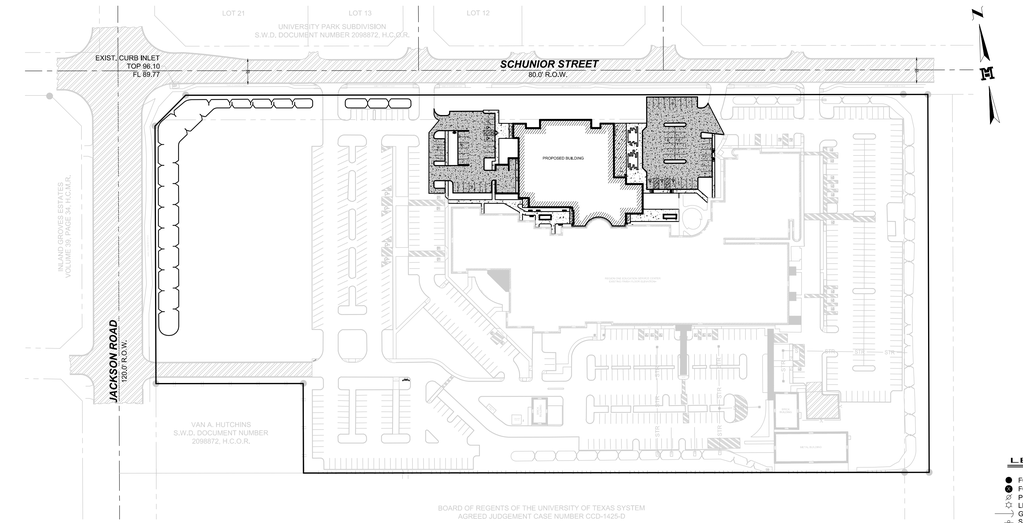
DETAIL A
SCALE: 1" = 20'



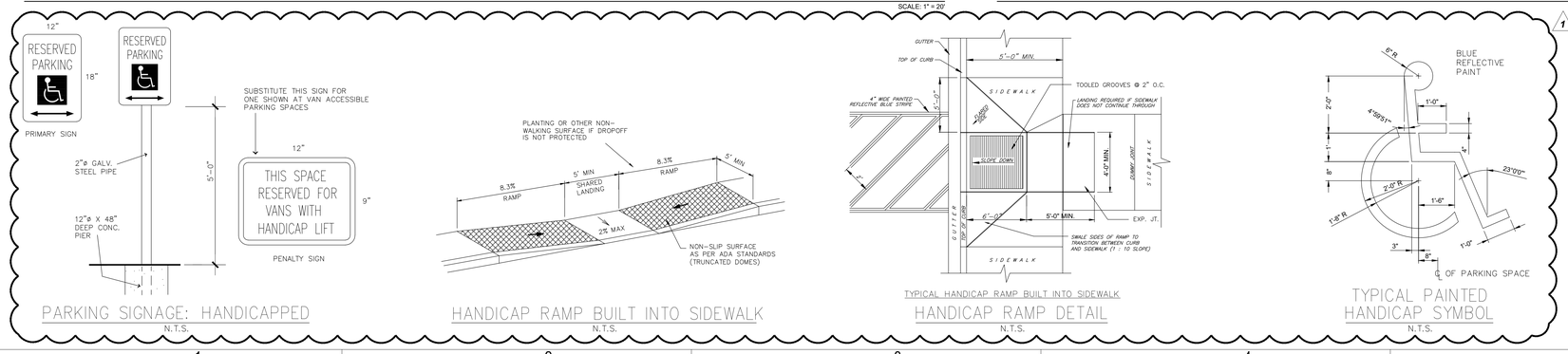
PROPOSED BUILDING AND PARKING LOTS
SCALE: 1" = 30'



DETAIL B
SCALE: 1" = 20'



OVERALL SITE
SCALE: 1" = 100'



1

LEGEND

- FOUND No.4 REBAR
- FOUND "X" MARK ON CONCRETE
- POWER POLE
- LIGHT POLE
- GUY WIRE
- SIGN
- SIGN
- STOP SIGN
- HANDICAP SIGN
- FLAG POLE
- FIRE HYDRANT
- WATER METER
- FIRE DEPARTMENT CONNECTION
- FLUSH VALVE
- WATER VALVE
- MANHOLE
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- TYPE "A" INLET
- TYPE "C" INLET
- IRRIGATION VALVE (SIZE AS NOTED)
- IRRIGATION STAND PIPE (SIZE AS NOTED)
- IRRIGATION VENT (SIZE AS NOTED)
- GATE ENTRY KEYPAD
- UNDERGROUND CABLE MARKER
- GAS MARKER
- GAS SERVICE
- GAS METER
- ELECTRIC BOX
- 1'X2' ELECTRIC BOX
- TRANSFORMER
- TRAFFIC LIGHT POLE
- 6" GUARD POST
- BLOCK FENCE
- ROD IRON FENCE
- STORM SEWER LINE
- SANITARY SEWER LINE
- WATER LINE
- IRRIGATION LINE
- OVERHEAD POWER LINE
- ASPHALT AREA
- CONCRETE AREA
- CANOPY AREA

ADDENDUM #4

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368

03-14-2019

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

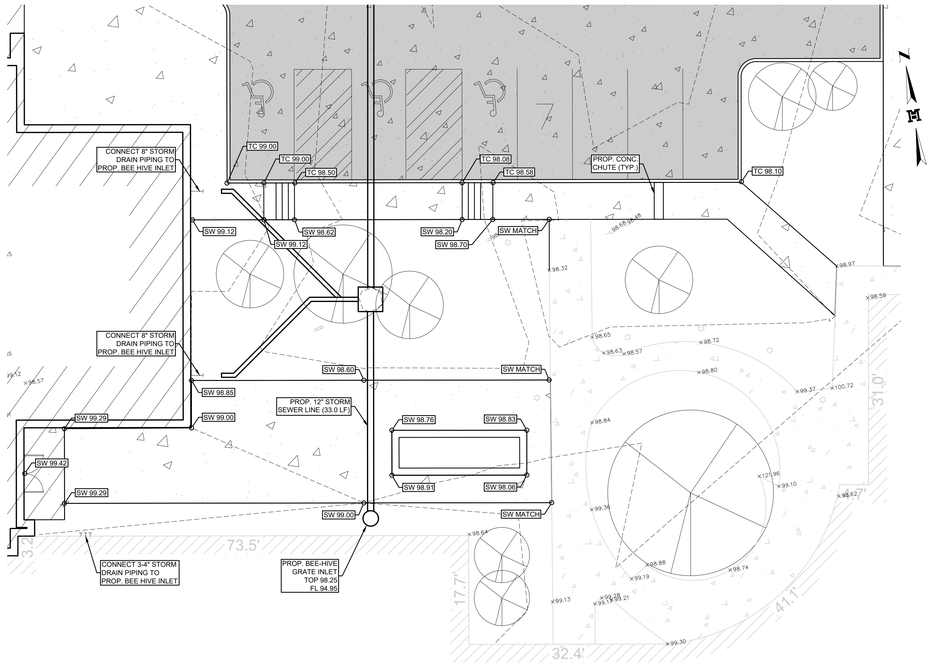
Revisions:

No.	Description	Date
1	SIGN AND RAMP DETAILS	03-14-19

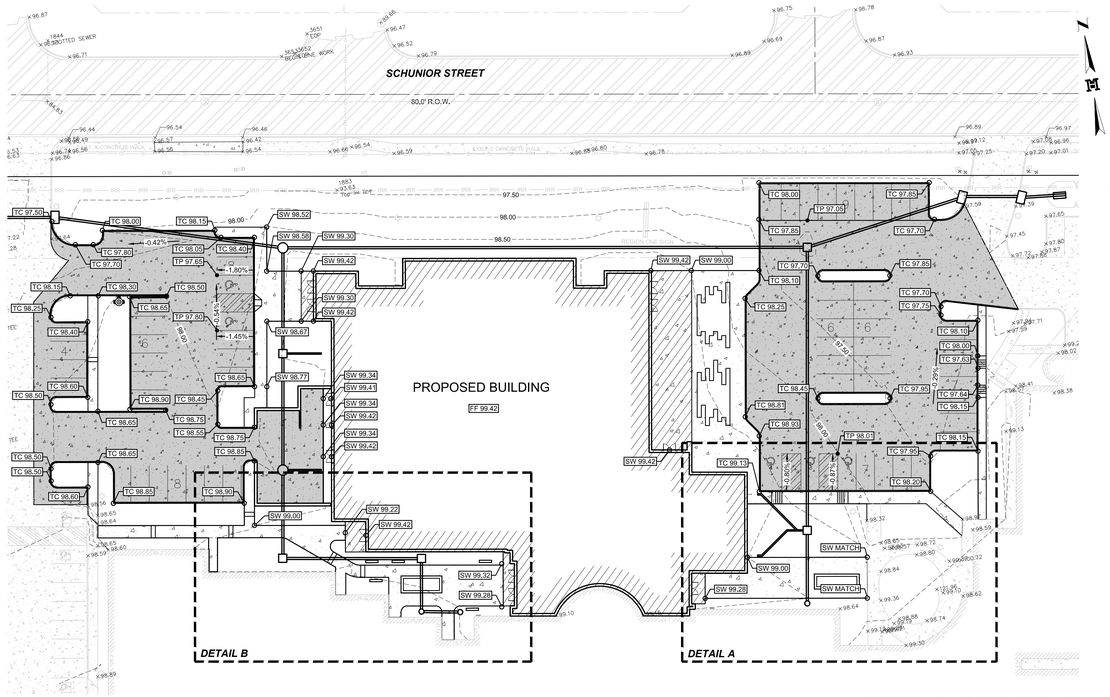
Sheet Title:
DIMENSIONAL CONTROL SITE PLAN

C-4.0

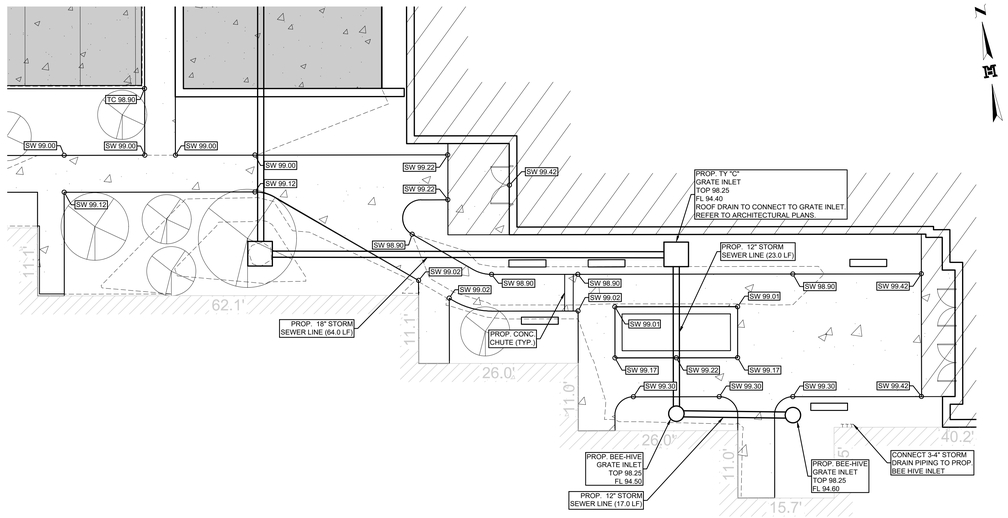
MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com
TBPLS No. 10096900



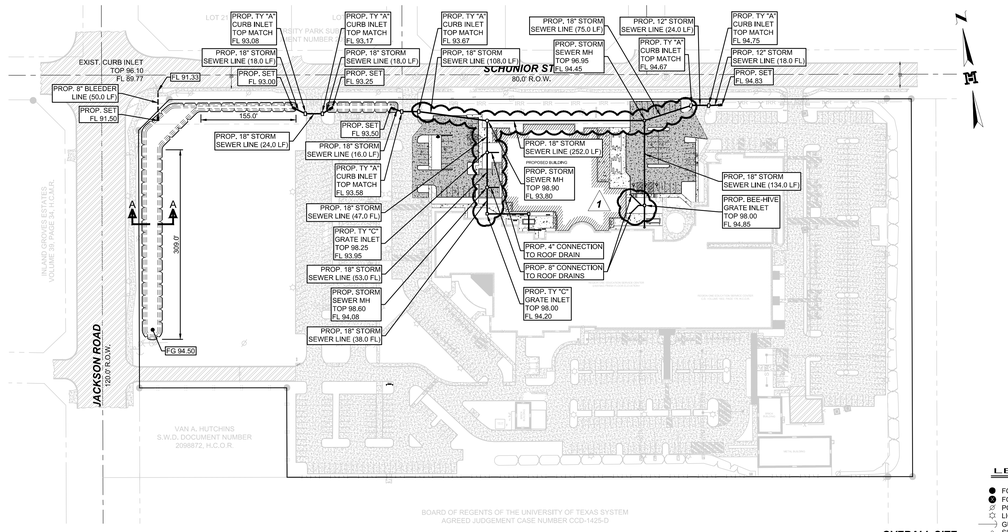
DETAIL A
SCALE: 1" = 20'



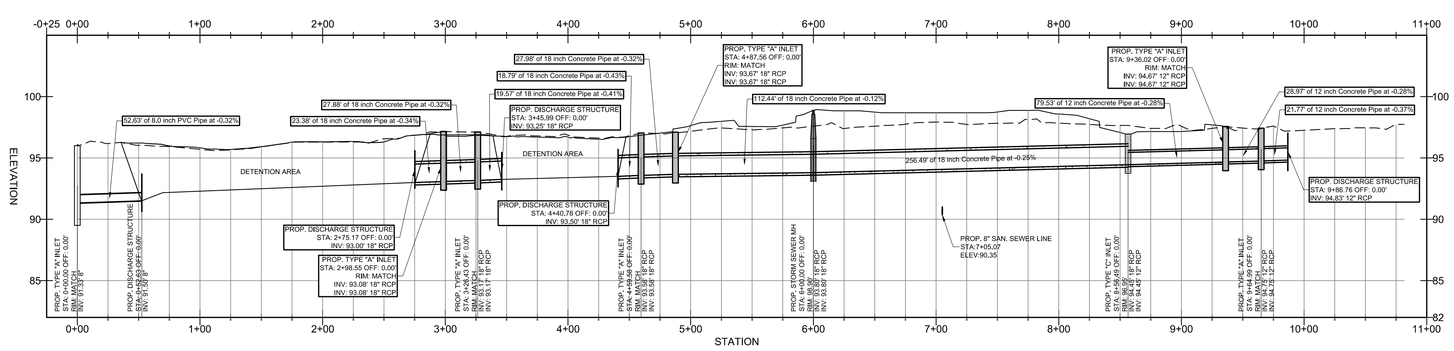
PROPOSED BUILDING AND PARKING LOTS
SCALE: 1" = 30'

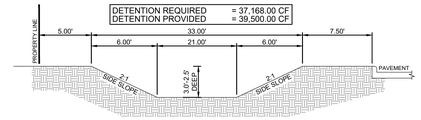


DETAIL B
SCALE: 1" = 20'

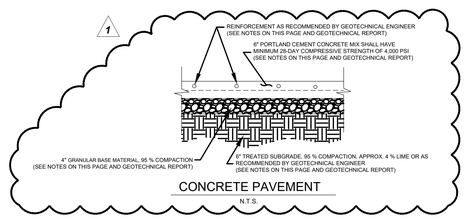


OVERALL SITE
SCALE: 1" = 100'





DETENTION AREA CROSS-SECTION A-A



CONCRETE PAVEMENT
N.T.S.

LEGEND

- FOUND No.4 REBAR
- FOUND "X" MARK ON CONCRETE
- POWER POLE
- LIGHT POLE
- GUY WIRE
- SIGN
- STOP SIGN
- HANDICAP SIGN
- FLAG POLE
- FIRE HYDRANT
- WATER METER
- FIRE DEPARTMENT CONNECTION
- FLUSH VALVE
- WATER VALVE
- MANHOLE
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- TYPE "A" INLET
- TYPE "C" INLET
- IRRIGATION VALVE (SIZE AS NOTED)
- IRRIGATION STAND PIPE (SIZE AS NOTED)
- IRRIGATION VENT (SIZE AS NOTED)
- GATE ENTRY KEYPAD
- UNDERGROUND CABLE MARKER
- GAS MARKER
- GAS SERVICE
- GAS METER
- ELECTRIC BOX
- TXU ELECTRIC BOX
- TRANSFORMER
- TRAFFIC LIGHT POLE
- 6" GUARD POST
- BLOCK FENCE
- ROD IRON FENCE
- STORM SEWER LINE
- SANITARY SEWER LINE
- WATER LINE
- IRRIGATION LINE
- OVERHEAD POWER LINE
- ASPHALT AREA
- CONCRETE AREA
- CANOPY AREA

ADDENDUM #4

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368

03-14-2019

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	ROOF DRAIN CONNECTIONS	03-14-19

Sheet Title:
PAVING AND DRAINAGE PLAN

C-5.0

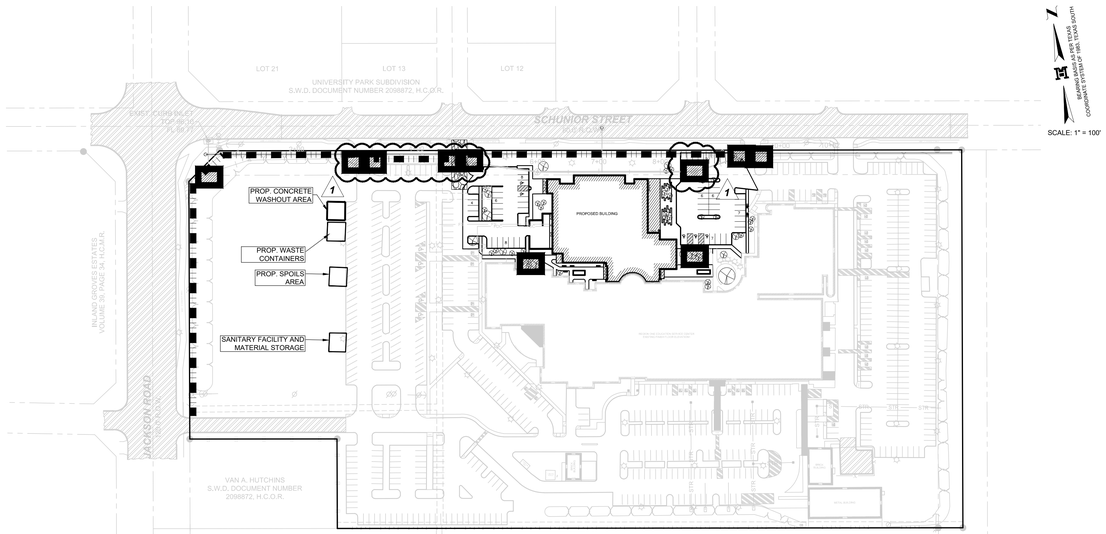
MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
TBPLS No. 10096900
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

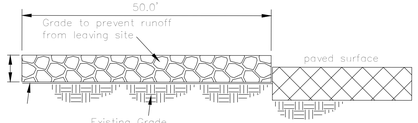
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368

03-14-2019

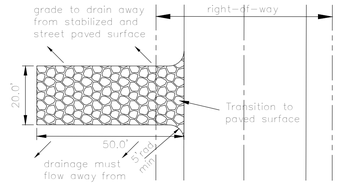
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW



SCALE: 1" = 100'



Profile View



Plan View

2 / C5 STABILIZED CONSTRUCTION ENTRANCE

SCALE: NOT TO SCALE

Notes :

1. Contruction entrance(s) shall be locted at the time of pre-contruction meeting.
2. Stone shall be 4 to 8 inch diameter crushed rock or acceptable crushed Portland Cement Concrete.
3. When necessary, vehicles shall be cleaned to remove sediment prior to entrance onto a public roadway. When washing is required, it shall be done on a area stabilized with crushed stone with drainage flowing away form both the street and the stabilized entrance. All sediment shall be prevented from entering any storm drain, ditch or watercourse using approved methods.
4. The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto paved surfaces. This may require periodic top dressing with additional stone as conditions demand. All sediment spilled, dropped, washed or tracked onto paved surfaces, must be removed immediately.
5. The entrance must be properly graded or incorporate a drainage swale to prevent runoff from leaving the construction site.

LEGEND

- SEDIMENT CONTROL FENCE
- CONSTRUCTION ENTRANCE
- -SOCK FOR INLET

GENERAL NOTES :

1. The guidelines shown hereon are suggestions only and may be modified by the engineer.
2. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 lbs.
3. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetable matter.
4. Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
5. Hay bales shall be place in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
6. Hay bales shall be securely anchored in place with 3/8" dia. rebar or 2"x2" wood stakes driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.

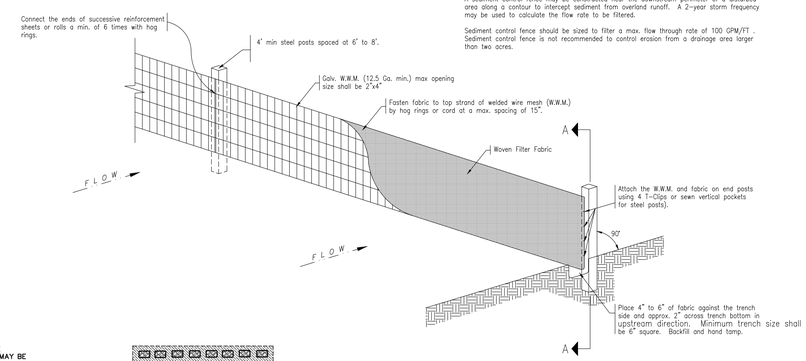
GENERAL NOTES :

1. The guidelines shown hereon are suggestions only and may be modified by the engineer.

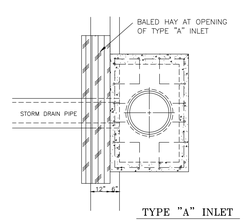
SEDIMENT CONTROL FENCE USAGE GUIDELINES

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.

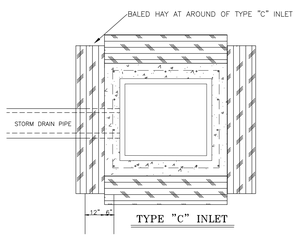
Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT . Sediment control fence is not recommended to control erosion from a drainage area larger than two acres.



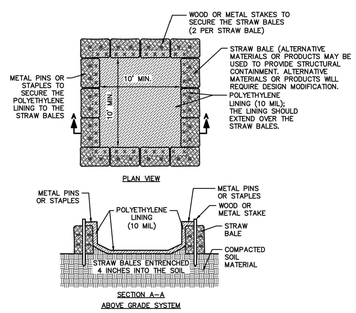
TEMPORARY SEDIMENT CONTROL FENCE

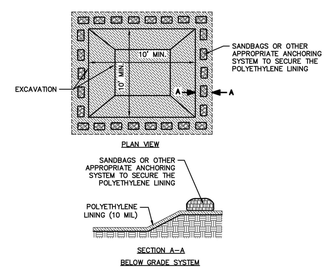


TYPE "A" INLET



TYPE "C" INLET





CONCRETE WASH OUT

ADDENDUM #4

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

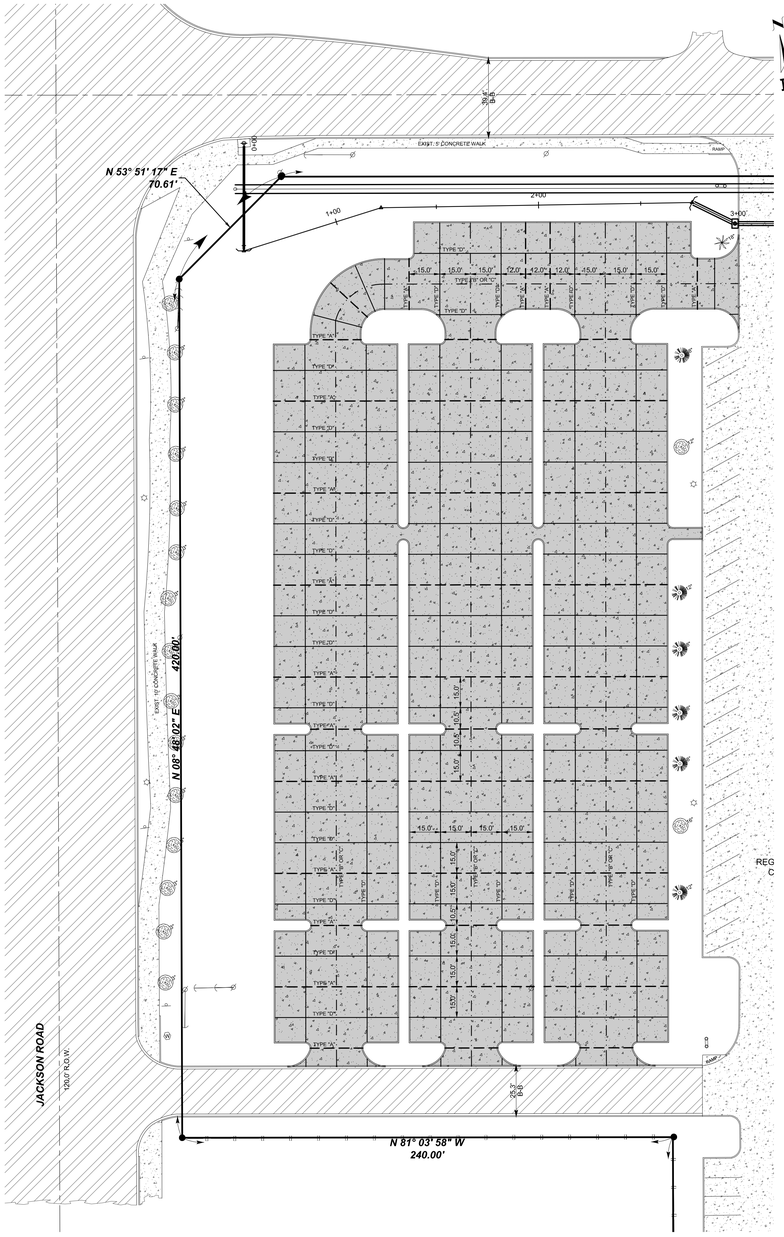
Revisions:

No.	Description	Date
1	SOCK INLET REVISED	03-14-19

Sheet Title:

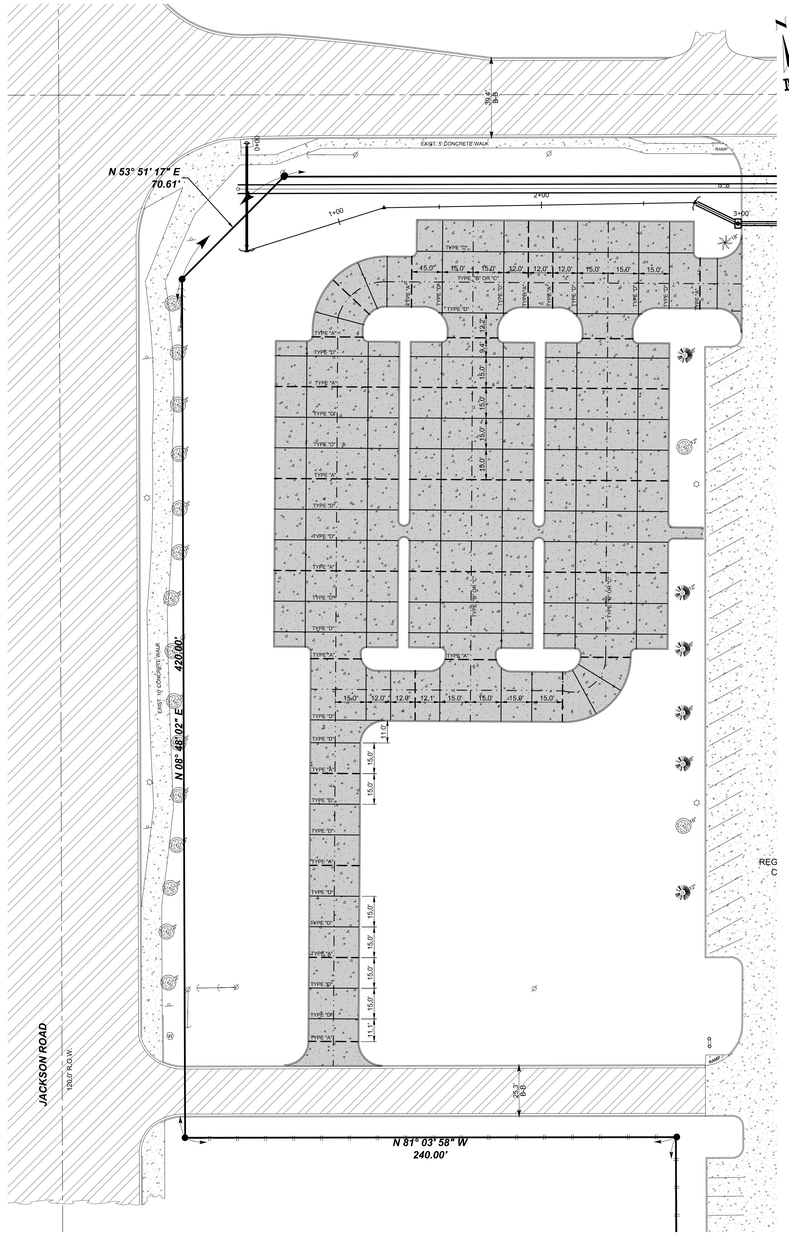
EROSION AND SEDIMENT CONTROL PLAN

C-6.0



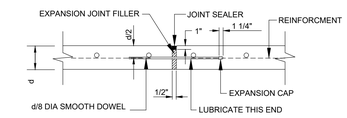
WEST PARKING LOT ALT. #4

SCALE: 1" = 30'



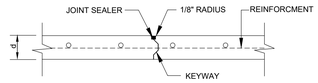
WEST PARKING LOT ALT. #5

SCALE: 1" = 30'



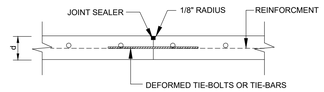
TYPE "A"

ALTERNATE EXPANSION JOINT



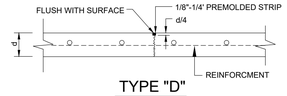
TYPE "B"

LONGITUDINAL CONSTRUCTION JOINT



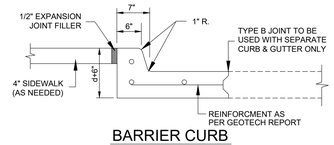
TYPE "C"

TIED BUTT LONGITUDINAL CONSTRUCTION JOINT



TYPE "D"

SAWED OR PREMOLDED STRIP
LONGITUDINAL OR TRAVERSE



BARRIER CURB

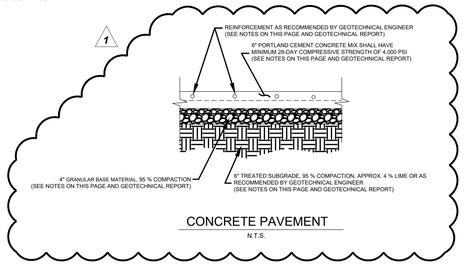
INTEGRAL OR SEPARATE CURB & GUTTER (WITH DOWELS 18" O.C.)
USED AT CONTRACTOR'S OPTION

PAVING JOINT TYPE DETAIL

SCALE: NOT TO SCALE

NOTES:

1. THE CONSTRUCTION JOINTING PLAN HAS BEEN DEVELOPED ASSUMING TYPICAL PAVING TECHNIQUES. IF THE CONTRACTOR'S EQUIPMENT OR PROCEDURES REQUIRE A DEVIATION, THE CONTRACTOR SHALL SUBMIT A REVISED JOINTING PLAN FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONCRETE CURB MAY BE INTEGRAL OR AS PER DETAIL ON JOINTS.



CONCRETE PAVEMENT

N.T.S.

ADDENDUM #4

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
TBPLS No. 10096900
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368

03-14-2019

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH / TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	REVISED CONCRETE DETAIL	03-14-19

Sheet Title:

JOINTING PLAN

C-9.0

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com
TBPLS No. 10096900

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368

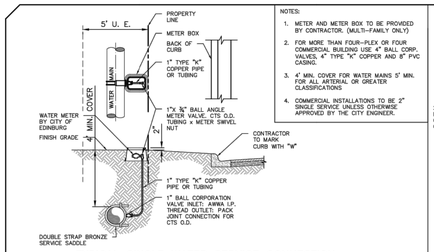
03-14-2019

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

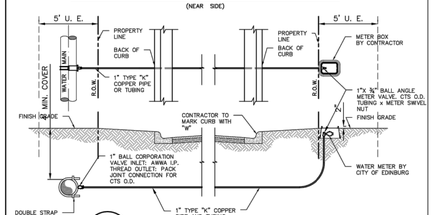
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

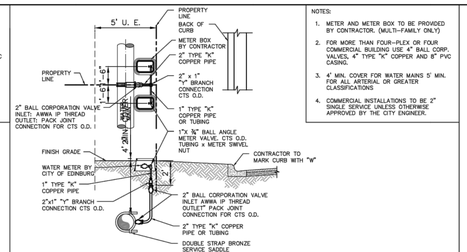


NOTES:
1. METER AND METER BOX TO BE PROVIDED BY CONTRACTOR, (MULTI-FAMILY ONLY)
2. FOR MORE THAN FOUR-PLEX OR FOUR COMMERCIAL BUILDING USE 4" BALL CORP. VALVES, 4" TYPE "K" COPPER AND 8" PVC CASING.
3. 4" MIN. COVER FOR WATER MAINS 5' MIN. FOR ALL ARTERIAL OR GREATER CLASSIFICATIONS
4. COMMERCIAL INSTALLATIONS TO BE 2" SINGLE SERVICE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

TYPICAL SINGLE WATER SERVICE CONNECTION
(NEAR SIDE)

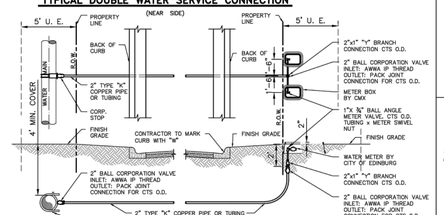


W-1 **TYPICAL SINGLE WATER SERVICE CONNECTION**
(FAR SIDE)



NOTES:
1. METER AND METER BOX TO BE PROVIDED BY CONTRACTOR, (MULTI-FAMILY ONLY)
2. FOR MORE THAN FOUR-PLEX OR FOUR COMMERCIAL BUILDING USE 4" BALL CORP. VALVES, 4" TYPE "K" COPPER AND 8" PVC CASING.
3. 4" MIN. COVER FOR WATER MAINS 5' MIN. FOR ALL ARTERIAL OR GREATER CLASSIFICATIONS
4. COMMERCIAL INSTALLATIONS TO BE 2" SINGLE SERVICE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

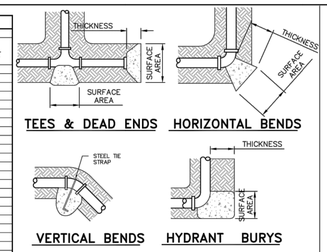
TYPICAL DOUBLE WATER SERVICE CONNECTION
(NEAR SIDE)



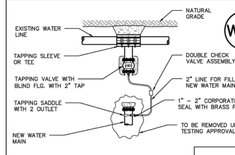
W-2 **TYPICAL DOUBLE WATER SERVICE CONNECTION**
(FAR SIDE)

THRUST BLOCK SIZE			
HORIZONTAL BENDS			
DIAMETER OF PIPE IN INCHES	SURFACE AREA SQ. FT.	THICKNESS IN INCHES	WEIGHT AT VERTICAL BENDS-LBS.
22-1/2° BENDS			
6 OR LESS	2	8	1,700
8	3	12	3,000
10	3.5	12	4,500
12	4	14	6,600
14	5	18	9,000
16	6	18	11,800
45° BEND			
6 OR LESS	4	12	3,200
8	5	14	5,800
10	6	18	9,000
12	7	18	13,000
14	8	24	17,000
16	11.5	24	23,200
90° BEND			
6 OR LESS	6	12	6,000
8	8	15	10,700
10	10	18	16,700
12	12	18	24,000
14	18	24	32,600
16	21	24	42,700
TEES & DEAD ENDS			
6 OR LESS	3	12	---
8	4	15	---
10	6	18	---
12	8.5	18	---
14	11.5	24	---
16	15	24	---

NOTE:
ALL VALUES SHOWN ARE MIN. FOR A HYDROSTATIC PRESSURE OF 150 PSI AND A SOIL RESISTANCE OF 2,000 LBS PER SQ. FT. WITH PIPELINE HAVING A MIN. OF 3 FT. OF COVER WITH CURB AND GUTTER AND A 5 FT. MIN. WITHOUT CURB AND GUTTER



W-5 **THRUST BLOCKS DETAILS**
NOTE: SEE THRUST BLOCK SIZE CHART FOR PROPER THICKNESS AND SURFACE AREAS

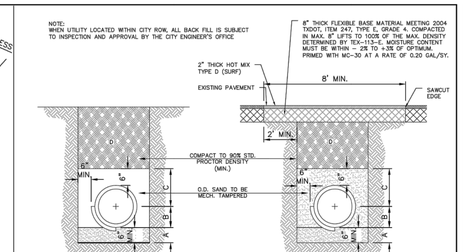


W-15 **METHOD FOR FILLING NEW WATER LINES PRIOR TO CHLORINATION AND TESTING**

NOTES:
1. THIS METHOD SHALL ALSO BE USED AT A NEW CONNECTION TO AN EXISTING DEAD END LINE.
2. AFTER THE NEW LINE HAS BEEN DISINFECTED AND PRESSURIZED, THE VALVE AT THE CONNECTION TO THE EXISTING LINE SHALL BE OPENED (BY CITY OF EDINBURG) TO FLUSH OUT THE SUPER CHLORINE.
3. 2" TAP DEE NEED TO BE PAID BY DEVELOPER, CONTRACTOR OR CUSTOMER.

W-16 **METER VAULTS**

NOTE:
WHEN UTILITY LOCATED WITHIN CITY ROW, ALL BACK FILL IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEER'S OFFICE



W-4 **STANDARD PIPE BEDDING (MAIN & SERVICE LATERALS)**
APPLICABLE BENEATH FUTURE/UNPAVED STREETS

A. SAND BEDDING PLACED BEFORE PIPE IS LAID TO FLOW LINE OF PIPE (MIN. THICKNESS = 6")
B. SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED)
C. SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, MECH. TAMPED)
D. FILL TRENCH WITH SELECT BACKFILL, WITH 12" LIFTS COMPACT TO 90% STD. PROCTOR.

FOUNDATION PREPARATION (WELL POINTS), GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

NOTE:
ALL EXISTING/ACTIVE STREET CROSSING SHALL REQUIRE SAND BACKFILL OF ENTIRE TRENCH. (SEE DETAIL S–6)

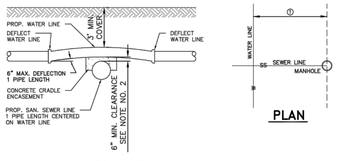
STANDARD PIPE BEDDING (MAIN ONLY)
(PARALLEL WITHIN EXIST. STREET)

A. SAND BEDDING PLACED BEFORE PIPE IS LAID TO FLOW LINE OF PIPE (MIN. THICKNESS = 6")
B. SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED)
C. SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, MECH. TAMPED)
D. FILL TRENCH WITH SELECT BACKFILL, WITH 12" LIFTS COMPACT TO 90% STD. PROCTOR.

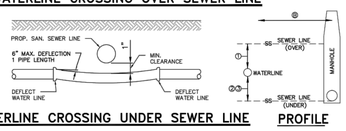
FOUNDATION PREPARATION (WELL POINTS), GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

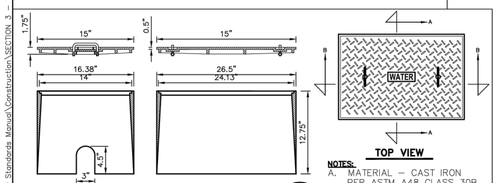
NOTES AS PER TEXAS DEPT. OF HEALTH MANUAL:
A. WATER LINE/NEW SEWER LINE SEPARATION.
WHEN NEW SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO WATERLINE THAN NINE FEET IN ALL DIRECTIONS. SEWERS THAT PARALLEL WATERLINES MUST INSTALLED IN SEPARATE TRENCHES, WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES WILL APPLY:
1. WHERE A SANITARY SEWER PARALLELS A WATERLINES, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC, MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETER. THE SEWER SHALL BE LOCATE BELOW THE WATERLINE.
2. WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OF PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETER SHALL BE MAINTAINED, IN ADDITION THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
3. WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SDR-/RSD PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIE WITH GASKETS JOINTS, A MINIMUM TWO FEET SEPARATION DISTANCE SHALL BE MAINTAINED. THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) THE INITIAL BACKFIELD SHALL BE CEMENT STABILIZED SAND (TWO OF MORE BAGS OF CEMENT). FOR ALL SECTIONS OF SEWER WITHIN NINE FEET OF WATERLINE. THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND.
4. WHERE A SEWER CROSSES OVER A WATERLINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF A LEAST 150 PSI USING APPROPRIATE ADAPTERS, IN LIEU OF THIS PROCEDURE THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT 5 FEET INTERVALS WITH SPACERS OF THE FILLED TO THE SPRING-LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
B. WATER LINE/MANHOLE SEPARATION:
MANHOLES SHALL BE WATERTIGHTS AND THE CONNECTING SEWER CAN BE MADE WATERTIGHT AND TESTED FOR LEAKAGE, THEY MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET OF HORIZONTAL CLEARANCE FROM ANY EXISTING OR PROPOSED WATERLINE, WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, A CARRIER PIPE AS DESCRIBED IN SUBSECTION A–4 OF THIS SECTION MAY BE USED WHERE APPROPRIATE.



W-6 **WATERLINE CROSSING OVER SEWER LINE**

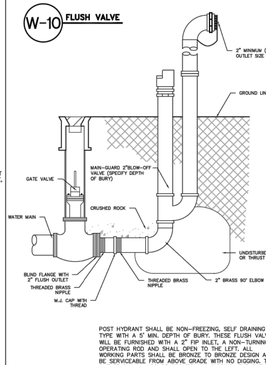


WATERLINE CROSSING UNDER SEWER LINE



W-11

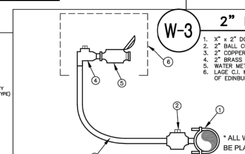
W-10 **FLUSH VALVE**

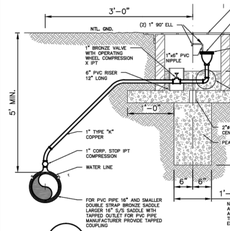


POST HYDRANT SHALL BE NON–FREEZING, SELF DRAINING TYPE WITH A 5' MIN. DEPTH OF BURY. THESE FLUSH VALVES WILL BE FURNISHED WITH A 2" FIP INLET, A NON–TURNING OPERATING ROD AND SHALL OPEN TO THE LEFT, ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND BE SERVICEABLE FROM ABOVE GRADE WITH NO DIGGING. THE OUTLET SHALL ALSO BE BRONZE AND DIGGING, THE OUTLET SHALL ALSO BE BRONZE AND BE 1 ½" NST. FLUSH VALVES SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE AS MANUFACTURED BY KUPFERLE FOUNDRY CO. ST. LOUIS, MO. OR APPROVED EQUAL.

W-3 **2" METER SERVICE**

1. 2" x 2" DOUBLE STRAP BRASS SADDLE
2. 2" BALL CORP. MIPT C.T.S.
3. 2" COPPER TUBING TYPE "L"
4. 2" BRASS ANGLE STOP
5. WATER METER NY CITY OF EDINBURG
6. LEAD C.I. METER BOX WILL BE PROVIDED BY CITY OF EDINBURG.

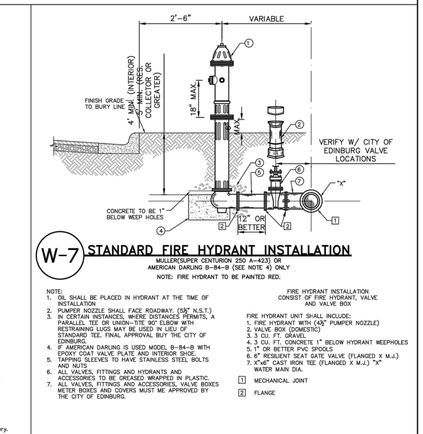




W-9 **TYPICAL AIR RELEASE VALVE INSTALLATION DETAIL**

SPECIFICATIONS:
CONCRETE: Class 1 concrete with design strength of 4500 PSI at 28 days. Unit of monolithic construction at floor and first stage of wall with sectional rise to required depth.
REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.
STEEL COVER: All steel fabrication shall be in accordance to AWA D1.1. Steel shall be ASTM A36 carbon steel, and hot dipped galvanized after fabrication in accordance to ASTM A 123. Standard cover is rated for 50 PSF.
ENGINEERING DATA: The meter assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations: American Water Works Association, Underwriters Laboratories, Uniform Plumbing Code, American Socielety of Sonitory Engineering.

W-7 **STANDARD FIRE HYDRANT INSTALLATION**
MUELLER(SUPER CENTURION 250 A-423) OR AMERICAN DARLING B-84-B (SEE NOTE 4) ONLY
NOTE: FIRE HYDRANT TO BE PAINTED RED.



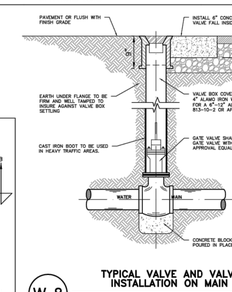
NOTE:
1. OIL SHALL BE PLACED IN HYDRANT AT THE TIME OF INSTALLATION.
2. PUMPER NOZZLE SHALL FACE ROADWAY. (5¾" N.S.T.)
3. IN CERTAIN INSTANCES, WHERE DISTANCES PERMITS, A PARALLEL TEE OR UNION–TITE 90° ELBOW WITH RESTRAINING LUGS MAY BE USED IN LIEU OF STANDARD TEE. FINAL APPROVAL BUY THE CITY OF EDINBURG.
4. 6" MECHANICAL DARLING B USED MODEL B–84–B WITH EPOXY COAT VALVE PLATE AND INTERIOR SHOE.
5. TAPPING SLEEVES TO HAVE STAINLESS STEEL BOLTS AND NUTS.
6. ALL VALVES, FITTINGS AND HYDRANTS AND ACCESSORIES TO BE GREASED WRAPPED IN PLASTIC.
7. ALL VALVES, FITTINGS AND ACCESSORIES, VALVE BOXES METER BOXES AND COVERS MUST ME APPROVED BY THE CITY OF EDINBURG.

FIRE HYDRANT INSTALLATION CONSIST OF FIRE HYDRANT, VALVE AND VALVE BOX

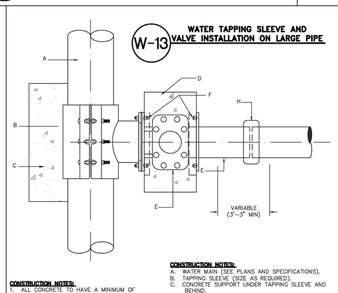
FIRE HYDRANT UNIT SHALL INCLUDE:
1. FIRE HYDRANT WITH (4½" PUMPER NOZZLE)
2. VALVE BOX (DOMESTIC)
3. 3 CU. FT. GRAVEL
4. 3 CU. FT. CONCRETE 1" BELOW HYDRANT WEEPHOLES
5. 1" OR BETTER PVC SPOOLS
6. 6" RESILIENT SEAT GATE VALVE (FLANGED X M.J.)
7. 6"x6" CAST IRON TEE (FLANGED X M.J.) "X" WATER MAIN DIA.

1 MECHANICAL JOINT
2 FLANGE

W-8 **TYPICAL VALVE AND VALVE BOX INSTALLATION ON MAIN LINE**
MUELLER (A–2360 SERIES) OR AMERICAN FLOW CONTROL (AFC–2500) ONLY
NOTE: ALL FITTINGS TO BE GREASED AND WRAPPED IN PLASTIC.



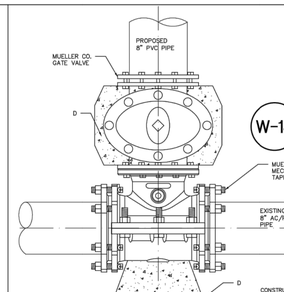
W-13 **WATER TAPPING SLEEVE AND VALVE INSTALLATION ON LARGE PIPE**



CONSTRUCTION NOTES:
1. ALL CONCRETE TO HAVE A MINIMUM OF 28 DAYS COMPRESSIVE STRENGHT OF 3,000 P.S.I.

CONSTRUCTION NOTES:
A. WATER MAIN (SEE PLANS AND SPECIFICATIONS).
B. TAPPING SLEEVE (SIZE AS REQUIRED).
C. CONCRETE SUPPORT UNDER TAPPING SLEEVE AND BEHIND.
D. THRUST BLOCK AS PER SPECIFICATIONS.
E. FLANGED AND HUB ENDS "O" RING SEALS WITH 2" SQUARE ARKON NUT GATE VALVE.
F. ANCHOR RODS.
G. PVC PIPE.
H. SIMPLEX COUPLING

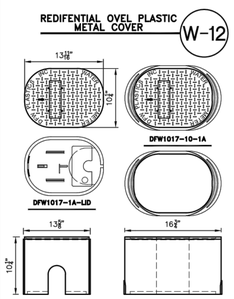
W-14 **SAME SIZE WATER TAPPING SLEEVE AND VALVE INSTALLATION**



CONSTRUCTION NOTES:
A. WATER MAIN (SEE PLANS AND SPECIFICATIONS).
B. TAPPING SLEEVE (SIZE AS REQUIRED).
C. CONCRETE SUPPORT UNDER TAPPING SLEEVE AND BEHIND.
D. THRUST BLOCK AS PER SPECIFICATIONS.
E. FLANGED AND HUB ENDS "O" RING SEALS WITH 2" SQUARE ARKON NUT GATE VALVE.
G. PVC PIPE.
H. PVC PIPE.
I. SIMPLEX COUPLING

CONSTRUCTION NOTES:
1. ALL CONCRETE TO HAVE A MINIMUM OF 28 DAYS COMPRESSIVE STRENGTH OF 3,000 PSI

REDIFENTIAL OVEL PLASTIC METAL COVER W-12



NOTES:
1. DIM'S +/– U.N.O.
2. SNAP LOCK POCKET WILL RECEIVE

FILE NAME:	
DATE:	MAY 2014
SURVEYED BY:	
DESIGNED BY:	JAG
DRAWN BY:	RM
REVISED BY:	JAG
CHECKED BY:	IP

1

TITLE: EDINBURG WATER DISTRICT SYSTEM — STANDARD DETAILS

THE CITY OF EDINBURG — ENGINEERING DEPARTMENT

SCALE: HOR: 1" = NTS; VERT: 1" = NTS

DATE:

SHEET NO.: 1 OF 1

PLAN NORTH / TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	DETAIL SHEET ADDED	03-14-19

Sheet Title:
WATER DETAILS

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

ADDENDUM #4

C-10.0

All City Standards Manual\Construction\SECTION 3 - WATER & SEWER POLICY\CAD Details\Sect. WATER\A_str-dtl-24x36_update 11-14.dwg — Nov 14, 2014 - 8:00AM

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
TBPLS No. 10096900
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com

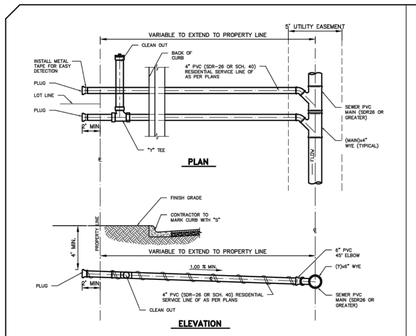
MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368

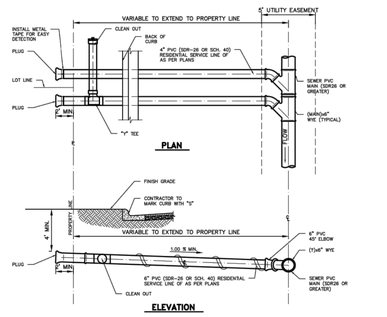
03-14-2019

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW



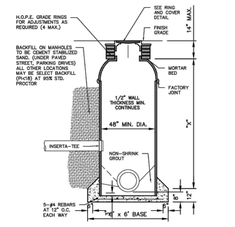
S-1 TYPICAL RESIDENTIAL SEWER SERVICE DETAIL
(RESIDENTIAL AND DUPLEX ONLY)

NOTE: SEE DETAIL S-5 FOR BACKFILL REQUIREMENTS.

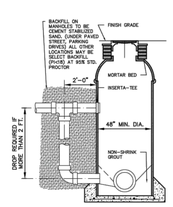


S-2 TYPICAL MULTIFAMILY AND COMMERCIAL SEWER SERVICE DETAIL
(MULTIFAMILY UP TO TRIPLEX)

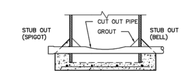
NOTE: SEE DETAIL S-5 FOR BACKFILL REQUIREMENTS.



S-3 TYPICAL FIBERGLASS MANHOLE
NOTE: ALL DROP CONNECTIONS TO M.H. SHALL USE INSERTA-TEE



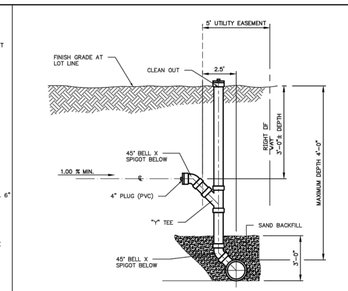
TYPICAL FIBERGLASS MANHOLE
With DROP STRUCTURE



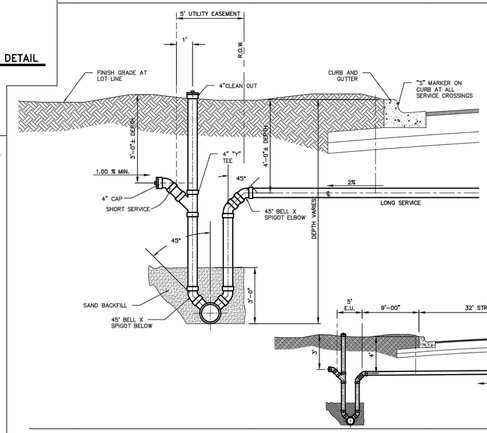
SECT. VIEW A–A

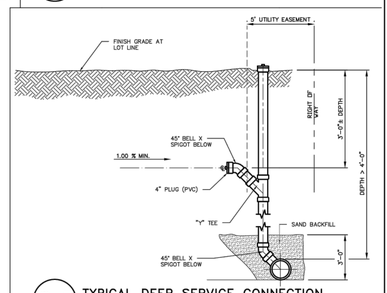
1. CUT PIPE TIP LENGTH 7' FOR 4' M.H.
2. LAY PIPE
3. EXCAVATE UNDER PIPE FOR M.H. BASE MIN. 6"
4. PLACE REBAR MAT
5. PLACE CONCRETE
6. IMMEDIATELY PLACE FIBERGLASS M.H.
7. GROUT INSIDE WALLS OF M.H. AROUND PIPE
8. CUT OUT PIPE
9. NO PRE-CAST BASES PERMITTED

S-6 TYPICAL DOUBLE DEEP SERVICE CONNECTION



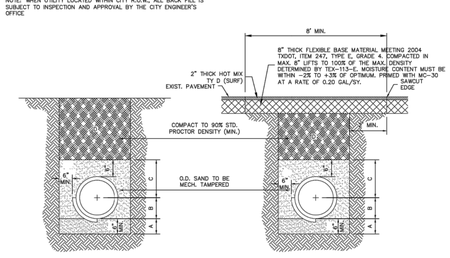
S-4 TYPICAL SHALLOW SERVICE CONNECTION





S-5 TYPICAL DEEP SERVICE CONNECTION

NOTE: WHEN UTILITY LOCATED WITHIN CITY R.O.W., ALL BACK FILL IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEER'S OFFICE



STANDARD PIPE BEDDING
(MAIN & SERVICE LATERALS)

APPLICABLE BENEATH FUTURE/UNPAVED STREETS

A. SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")

B. SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).

C. SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, MECH. TAMPED).

D. FILL TRENCH W/SELECT BACKFILL, W/12" LIFTS COMPACT TO 90% STD. PROCTOR.

FOUNDATION PREPARATION (WELL POINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

STANDARD PIPE BEDDING
(MAIN ONLY)

(PARALLEL WITHIN EXIST. STREET)

A. SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")

B. SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).

C. SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, MECH. TAMPED).

D. FILL TRENCH W/SELECT BACKFILL, W/12" LIFTS COMPACT TO 90% STD. PROCTOR.

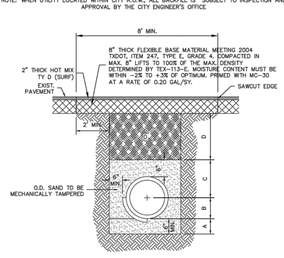
FOUNDATION PREPARATION (WELL POINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

NOTE: ALL EXISTING/ACTIVE STREET CROSSINGS SHALL REQUIRE SAND BACKFILL OF ENTIRE TRENCH. (SEE DETAIL S-6)

S-7 SEWER STANDARD PIPE BEDDING

NOTE: WHEN UTILITY LOCATED WITHIN CITY R.O.W., ALL BACKFILL IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEER'S OFFICE.



STANDARD PIPE BEDDING
(MAIN & SERVICE LATERALS)

UNDER EXISTING/ACTIVE STREET CROSSINGS.

A. SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")

B. SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).

C. SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, MECH. TAMPED).

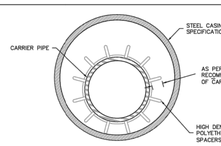
D. FILL TRENCH W/SAND (12" LIFTS, MECH. TAMPED).

FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

S-8 UTILITY CROSSING AT EXIST./ACTIVE STREET DETAIL (WATER/SEWER)

BORING INSTALLATION		
CARRIER PIPE SIZE	PIPE CASING SIZE	MIN. WALL THICKNESS
6"	14"	0.187"
8"	16"	0.187"
10"	18"	0.250"
12"	20"	0.250"
14", 15"	24"	0.344"
16"	24"	0.344"
18"	30"	0.375"
24"	36"	0.375"
36"	48"	0.625"



S-9 UTILITY LINE BORE

GENERAL NOTES:

1. ALL STEEL CASING SHALL BE WELDED.

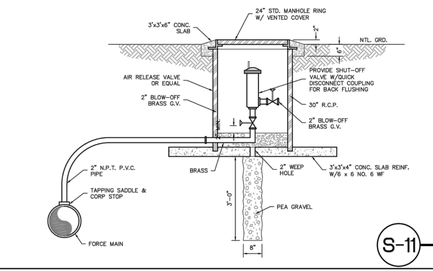
2. STEEL CASING SHALL BE CLOSED AT EACH END USING BRICK OR BLOCK AND MORTAR GROUTED.

3. CASING SPACERS SHALL BE USED TO INSTALL THE CARRIER PIPE INSIDE THE ENCASEMENT PIPE. CASING SPACERS SHALL FASTEN TIGHTLY ONTO THE CARRIER PIPE SO THAT WHEN THE CARRIER PIPE IS BEING INSTALLED THE SPACERS WILL NOT MOVE ALONG THE PIPELINE. CASING SPACERS SHALL BE DOUBLED ON EACH END OF THE ENCASEMENT.

4. PROJECTION – TYPE CASING SPACERS SHALL BE CONSTRUCTED OF PREFORMED SECTIONS OF HIGH DENSITY POLYETHYLENE. THE FLEXIBLE SECTIONS SHALL BE JOINED TOGETHER AROUND THE PIPE TO PROVIDE A MINIMUM OF 16 PLASTIC PROJECTIONS PER SPACER SECTION.

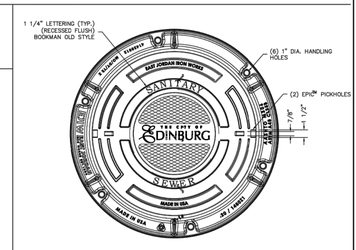
5. INSTALLATION AND SIZE OF SPACERS SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.

S-10 DRAIN DITCH CROSSING SECTION

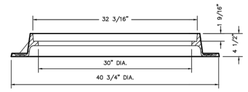


INSTALLATION DETAIL
SEWAGE AIR RELEASE VALVE

S-11



COVER SECTION



FRAME SECTION

S-12 CITY STANDARD ROADWAY MANHOLE RING AND COVER CASTING DETAIL

No.	Description	Date
1	DETAIL SHEET ADDED	03-14-19

FILE NAME:
DATE: JULY, 2014
SURVEYED BY:
DESIGNED BY: JAG
DRAWN BY: RM
REVISED BY: JAG
CHECKED BY: IP

SANITARY SEWER COLLECCTION SYSTEM

STANDARD DETAILS

EDINBURG CITY LIMITS 1955 ANNEXED 1968 2000

THE CITY OF EDINBURG
ENGINEERING DEPARTMENT

SCALE: HOR: 1" = NTS
VERT: 1" = NTS

DATE:
SHEET NO.: 1 OF 1

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

PLAN NORTH
TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

Revisions:

Sheet Title:
SEWER DETAILS

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

ADDENDUM #4

C-11.0

N:\City Standards Manual\Construction\SECTION 3 - WATER & SEWER POLICY\CAD Details\Sec3_SEWER\A_sew-dtl-24x36_update.dwg - Nov 13, 2014 - 4:12PM

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com
TBPLS No. 10096900

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER

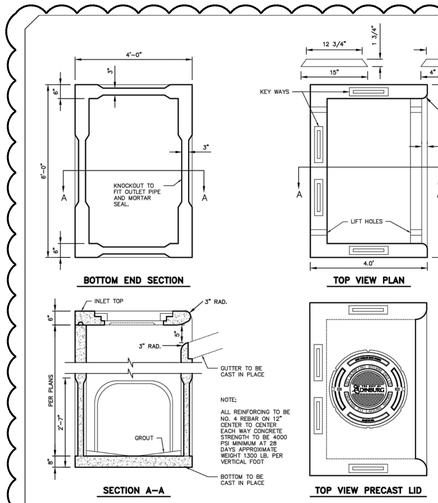
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368
03-14-2019

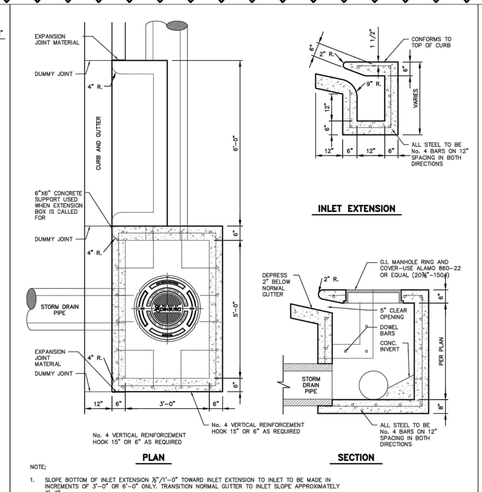
GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

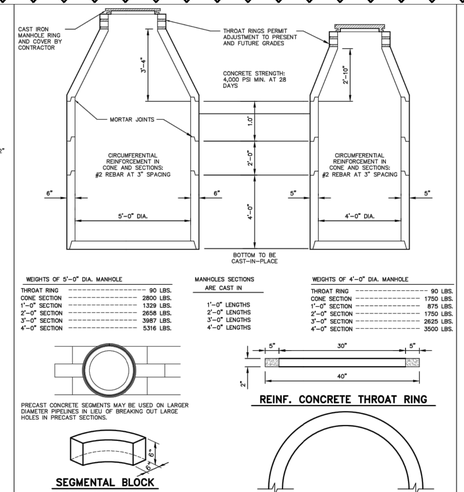
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

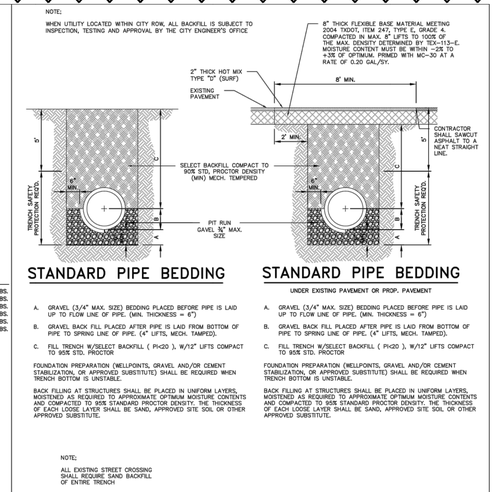
CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541





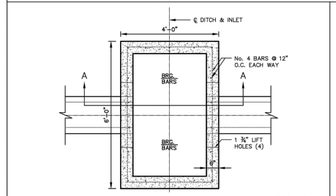


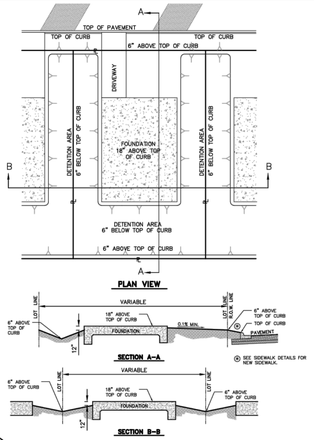


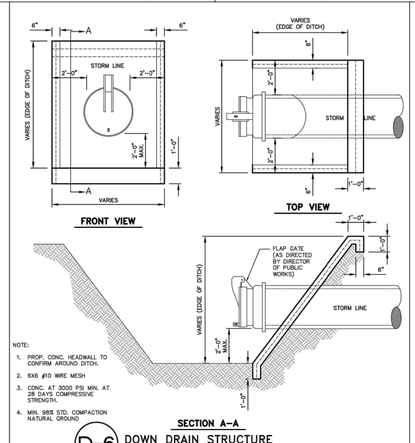
FILE NAME:	A_drainage_dtl_2.dwg
DATE:	MAY 20104
SURVEYED BY:	
DESIGNED BY:	I.P.
DRAWN BY:	R.M.M.
REVISED BY:	I.P.
CHECKED BY:	I.P.

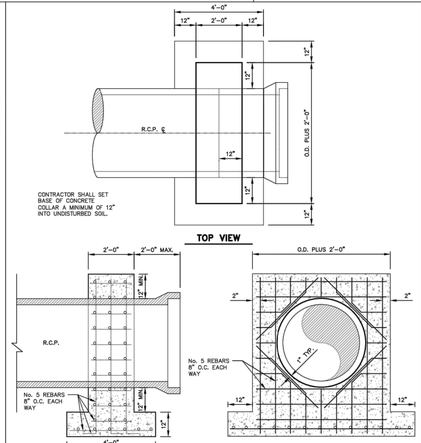
DRAINAGE SYSTEM
STANDARD DETAILS

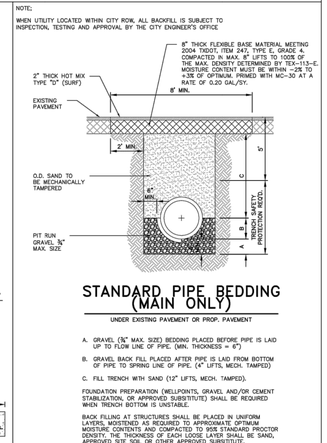
TITLE:
EDINBURG
All-America City
1963 2000

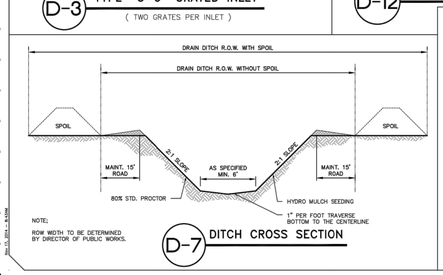


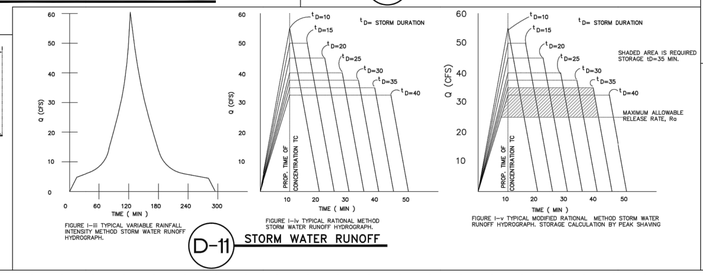


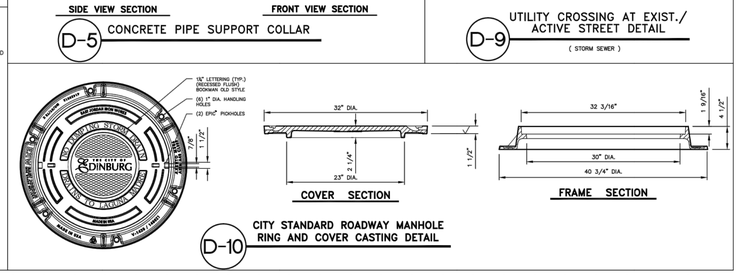












SCALE:	HOR:	1" = N.T.S.
	VERT:	1" = N.T.S.

REVISIONS:
1.
2.
3.
4.
SEAL:
DATE:
SHEET NO.: 1 OF 1

PLAN NORTH
TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	DETAIL SHEET ADDED	03-14-19

Sheet Title:
DRAINAGE DETAILS

ADDENDUM #4

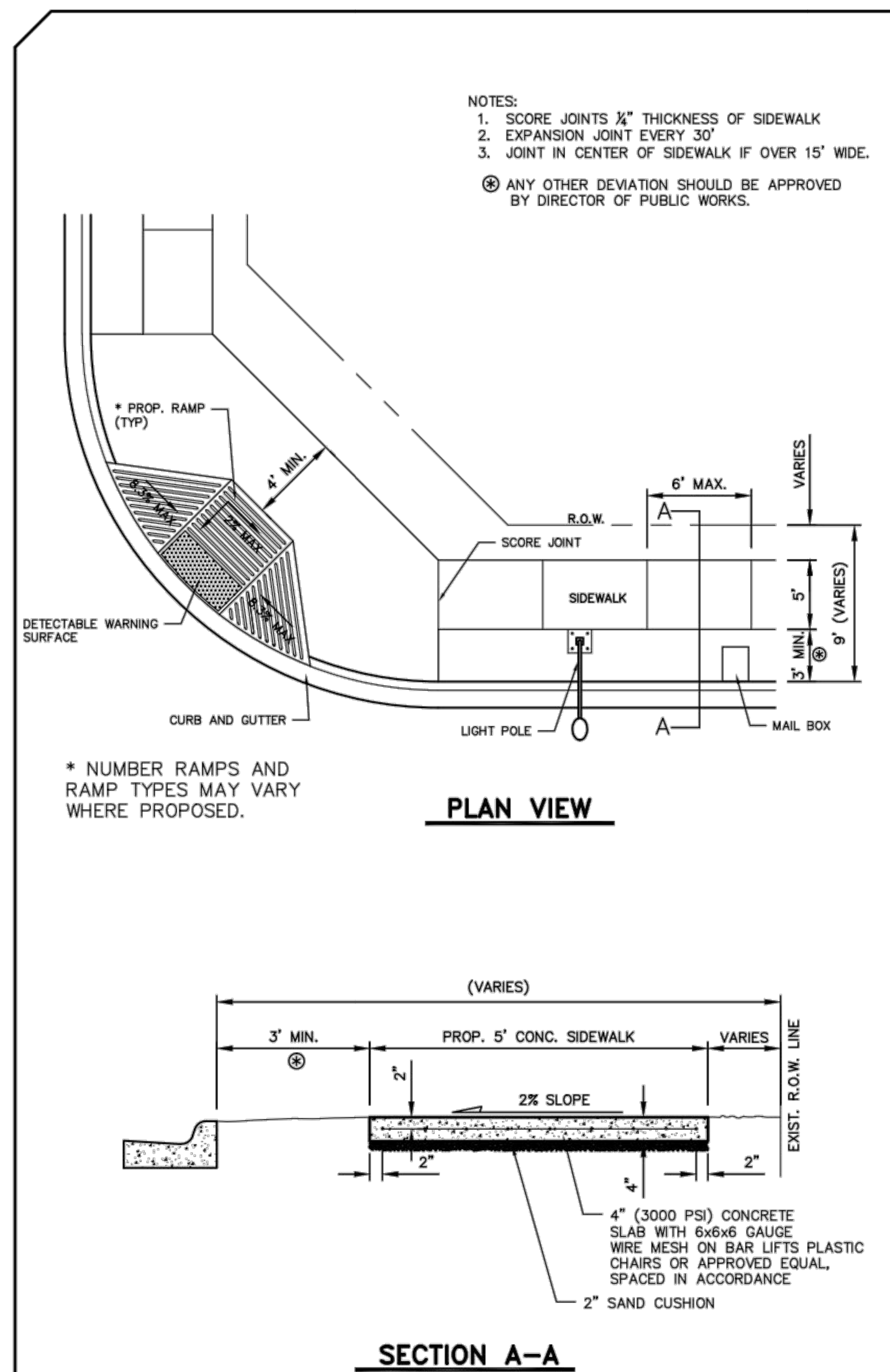
C-12.0

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
TBPLS No. 10096900
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com

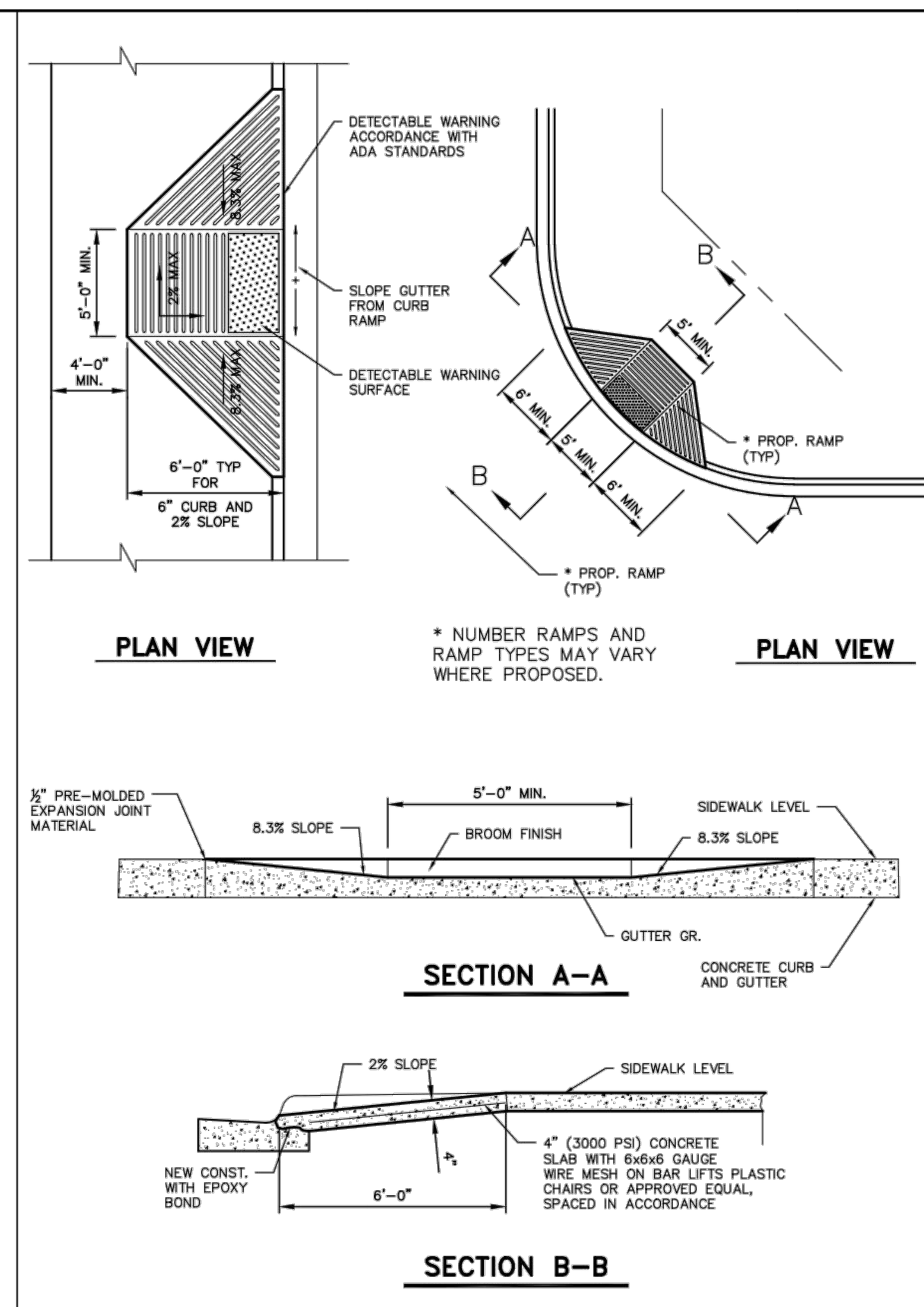
MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED
PROFESSIONAL ENGINEER

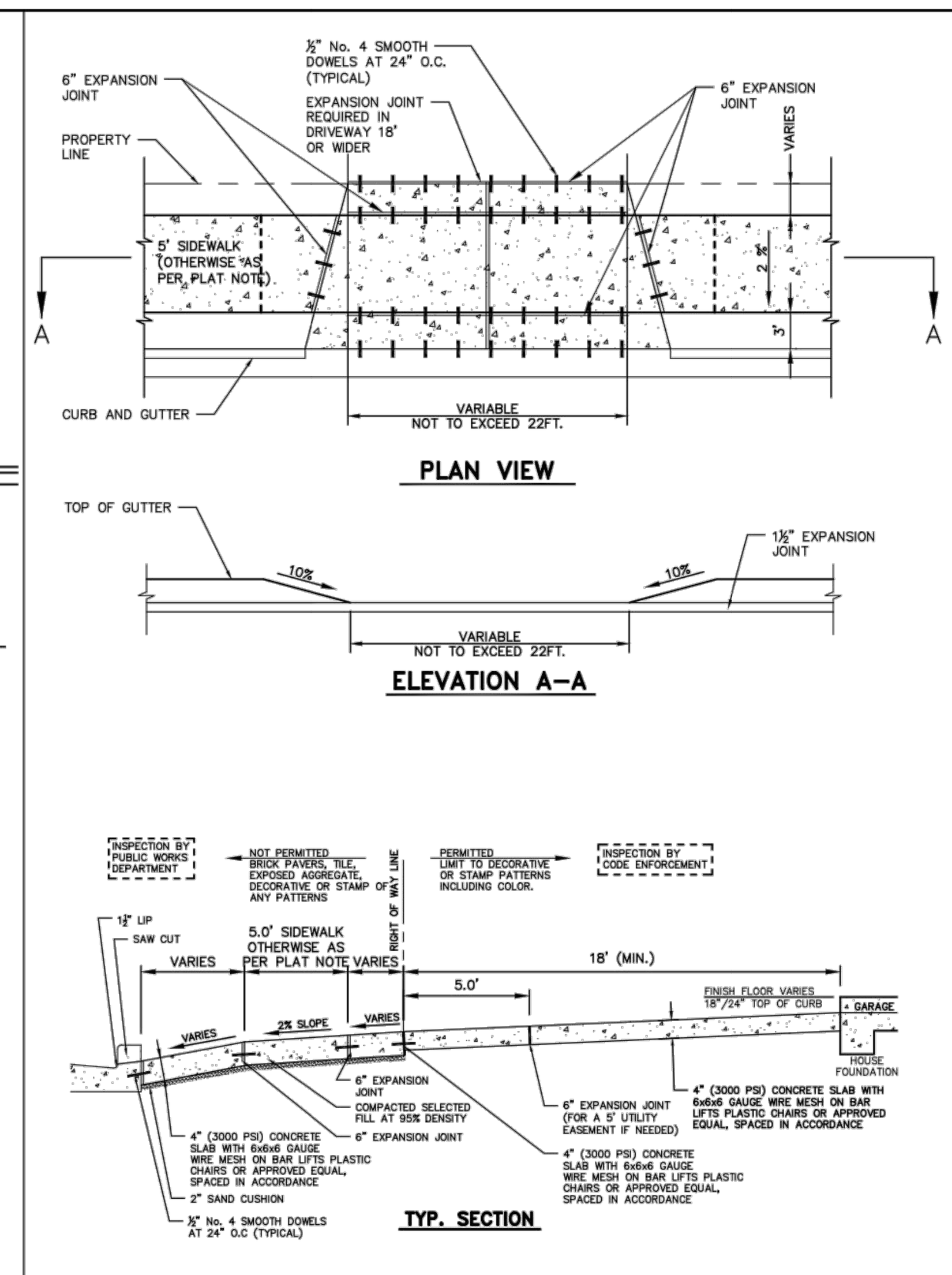
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E.-117368
03-14-2019
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW



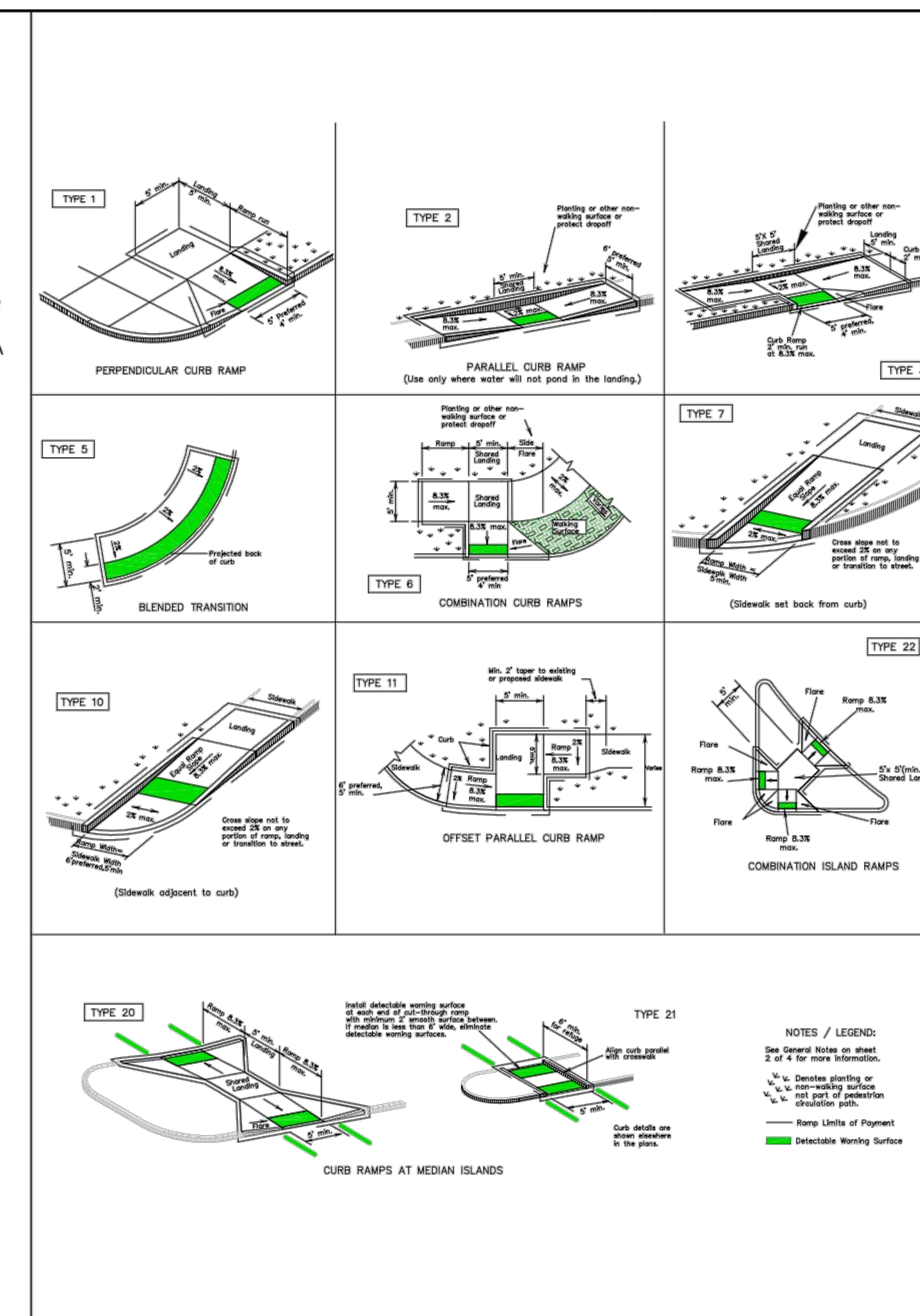
P-10 TYPICAL CONCRETE SIDEWALK DETAIL MINOR STREETS



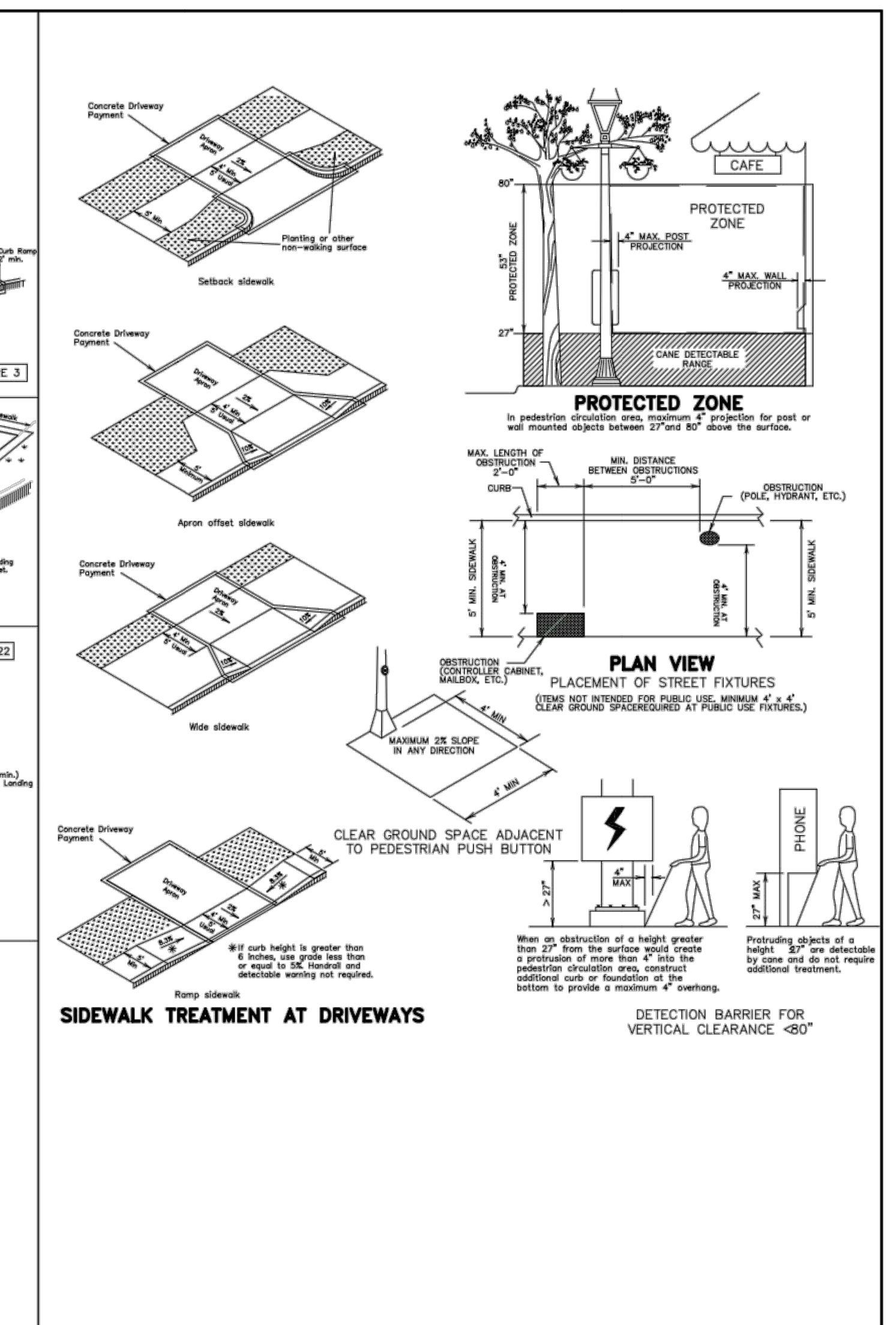
P-11 HANDICAP RAMP – DETAILS



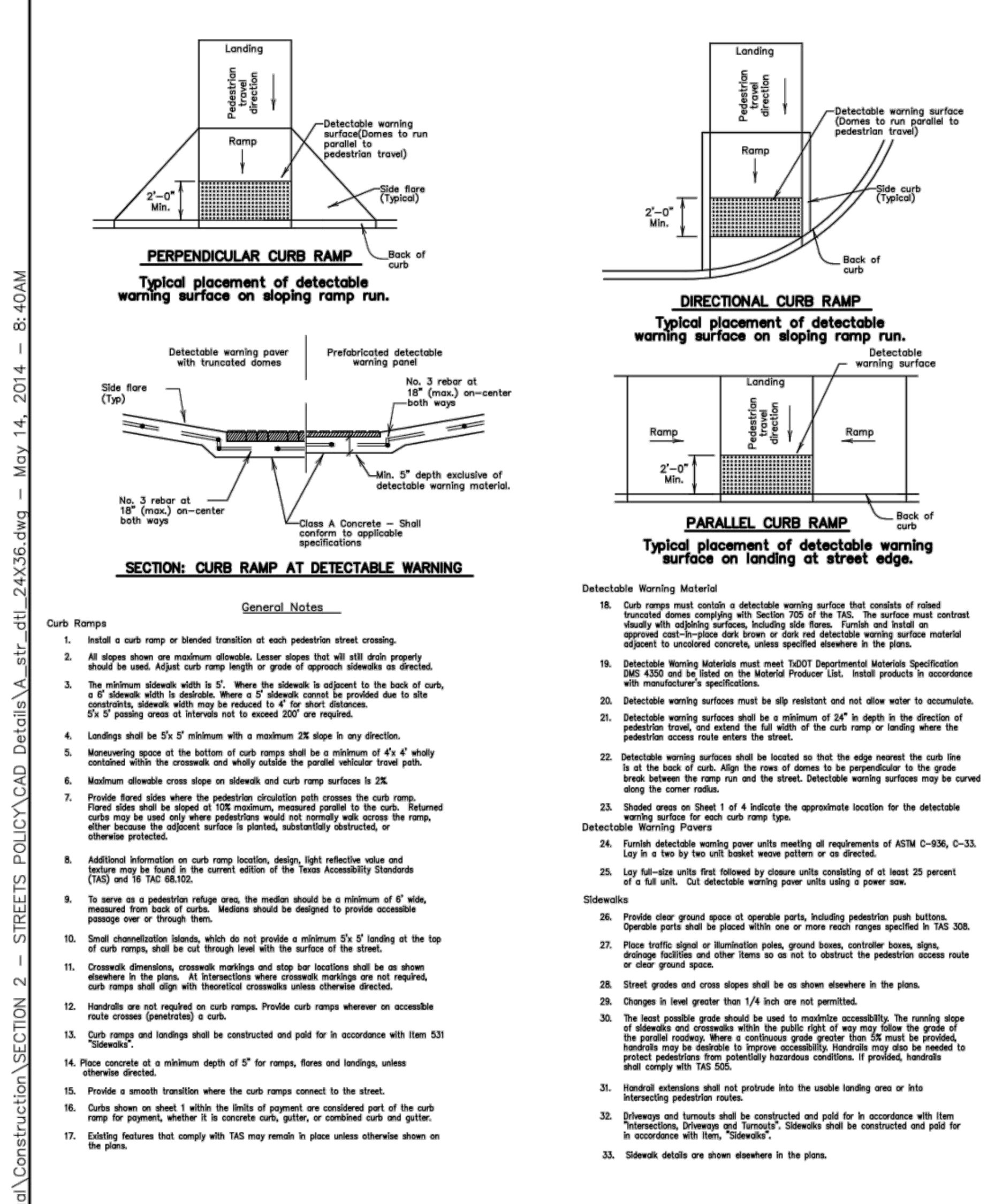
P-12 PAVING DRIVE PAD – DETAILS



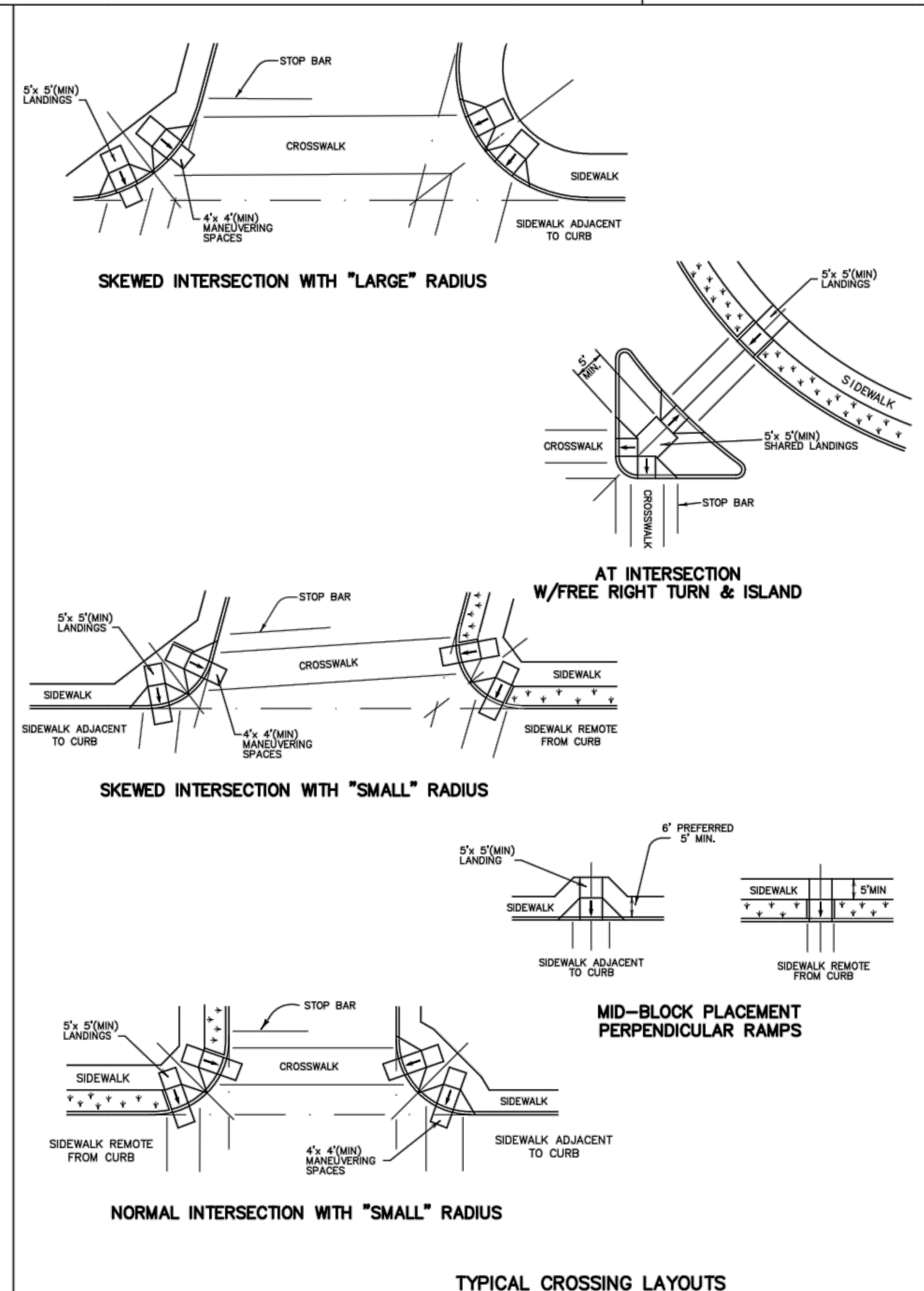
P-13 PEDESTRIAN FACILITIES RAMP TYPES



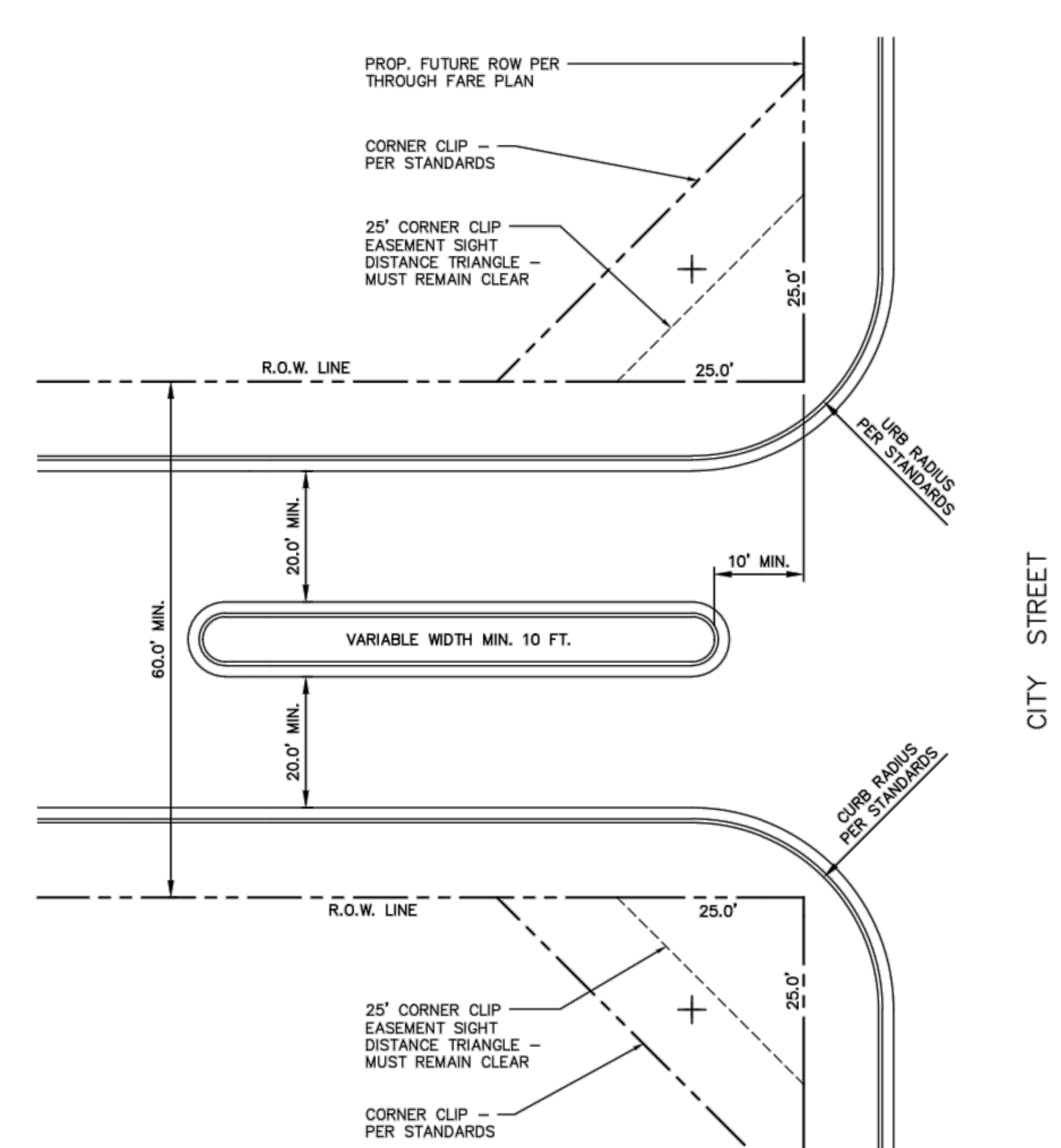
P-14 PEDESTRIAN FACILITIES SIDEWALK AT DRIVEWAY



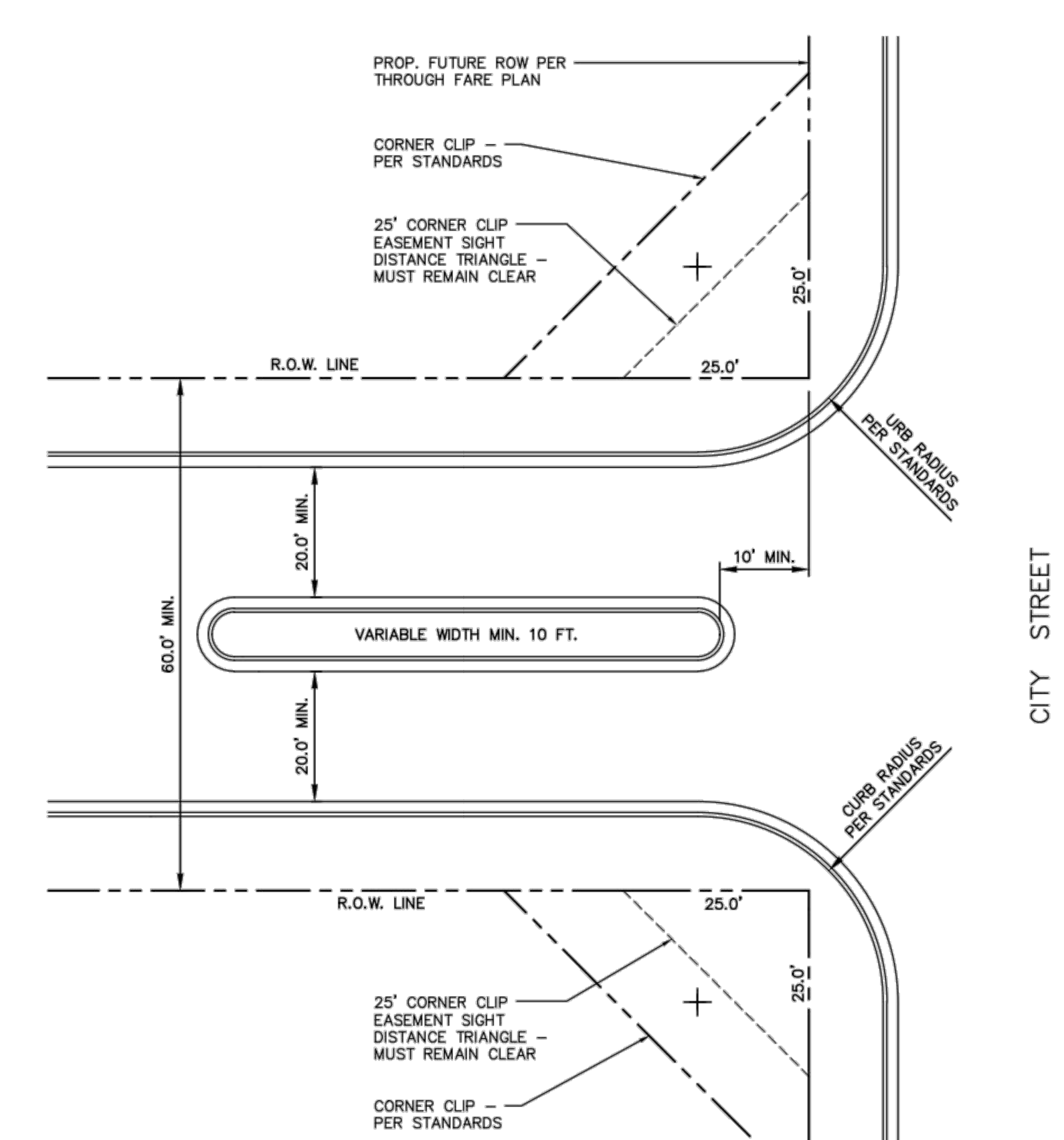
P-15 PEDESTRIAN FACILITIES DETECTABLE WARNINGS



P-16 PEDESTRIAN FACILITIES CROSSING LAYOUT



P-17 MEDIAN DETAIL



P-18 GATED ENTRANCE – DETAIL

FILE NAME:	
DATE:	MAY, 2014
SURVEYED BY:	
DESIGNED BY:	IP/JAG
DRAWN BY:	RMM
REVISED BY:	IP/JAG
CHECKED BY:	IP/JAG

PAVING SYSTEM

STANDARD DETAILS

TITLE:

EDINBURG All-America City 1968 1995 2000

THE CITY OF EDINBURG

ENGINEERING DEPARTMENT

SCALE: HOR: 1" = NTS; VERT: 1" = NTS

DATE:

SHEET NO.: 2 OF 3

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

Revisions:

No.	Description	Date
1	DETAIL SHEET ADDED	03-14-19

Sheet Title:
STREET DETAILS

ADDENDUM #4

C-14.0

MELDEN & HUNT INC.
CONSULTANTS • ENGINEERS • SURVEYORS
TBPLS No. 10096900
115 W. McINTYRE - EDINBURG, TX 78541
PH: (956) 381-0981 - FAX: (956) 381-1839
ESTABLISHED 1947 - www.meldenandhunt.com

MELDEN & HUNT, INC.
TEXAS REGISTRATION F-1435

STATE OF TEXAS
MARIO A. REYNA
117368
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIO A. REYNA, P.E. 117368

03-14-2019

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

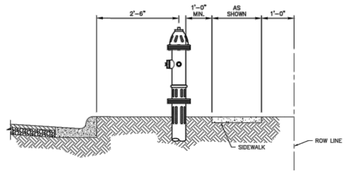
CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

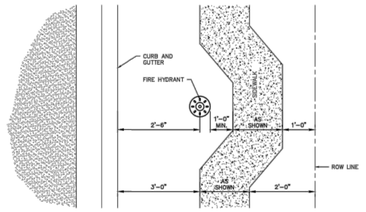
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE ESC
REGION ONE
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

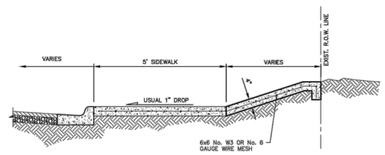


FIRE HYDRANT LOCATION – PROFILE



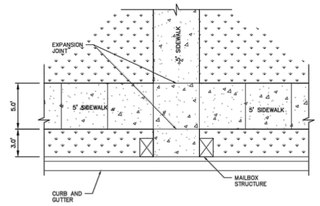
FIRE HYDRANT LOCATION – PLAN

P-19 SIDEWALK DEVIATION AT FIRE HYDRANT



SIDEWALK RIP-RAP

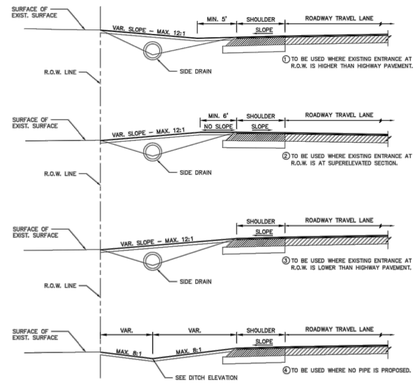
P-20 SIDEWALK RIP RAP



SIDEWALK PLAN

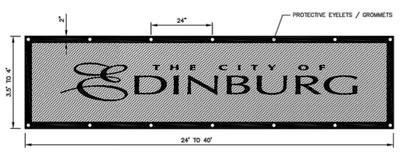
NOTE:
1. ANY CHANGE TO SIDEWALK PLAN SHOULD BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

P-21 ADA SIDEWALK AT MAILBOX – DETAIL



TYPICAL ENTRANCE PROFILE FOR DRIVEWAYS W/OUT C&G

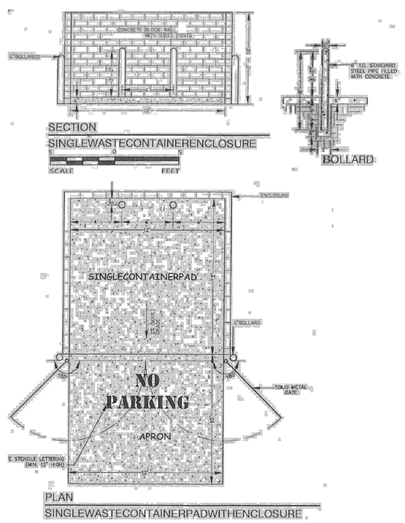
P-22 ENTRANCE PROFILE FOR DRIVEWAYS WITHOUT C&G



TYPICAL BANNER

NOTES:
1. MESH MATERIAL (MESH MATERIAL WILL GUARANTEE LONGER LIFE OF THE BANNER DUE TO LESS WIND RESISTANCE AND IS REQUIRED) IS TO BE OF A TYPE THAT WILL WITHSTAND NORMAL WEATHER (WIND AND RAIN) CONDITIONS (NO EXCEPTIONS).
2. BANNER (TOP, BOTTOM AND BOTH SIDES) IS TO HAVE A FINISHED HEM TO PREVENT WIND TEARS.
3. A HAMMED EDGE APPROXIMATELY TOW (2) INCHES WIDE IS REQUIRED AT THE TOP, BOTTOM, AND BOTH SIDES OF BANNER WITH METAL EYELETS INSTALLED ON DOUBLED MATERIAL FOR THE PURPOSE OF ATTACHING THE BANNER TO THE EXISTING GUIDE WIRES.
4. GROMMETS (PROTECTIVE EYELETS) MUST BE PLACED ALONG THE TOP EDGES OF THE BANNER AND ONE AT EACH BOTTOM END. GROMMETS LOCATED AT THE BOTTOM ENDS WILL HAVE HEAVIER REINFORCING OR OTHER PRE-APPROVED METHOD (I.E. D RINGS WITH REINFORCED NYLON STRAPS). THE MINIMUM GROMMET SIZE SHALL BE 1/2-INCH (INSIDE MEASUREMENT), AND THE GROMMETS SHALL BE PLACED EVERY TRENTY FOUR (24) INCHES.

P-23 TYPICAL BANNER DETAIL



FILE NAME:	
DATE:	MAY, 2014
SURVEYED BY:	
DESIGNED BY:	JP/JAG
DRAWN BY:	RMM
REVISED BY:	JP/JAG
CHECKED BY:	JP/JAG

PAVING SYSTEM
STANDARD DETAILS

TITLE: EDINBURG INCORPORATED CITY 1995 2000 1968

THE CITY OF EDINBURG
ENGINEERING DEPARTMENT

SCALE: HOR: 1" = NTS
VERT: 1" = NTS

DATE:

SHEET NO.: 3 OF 3

PLAN NORTH
TRUE NORTH

100% PERMIT SET

Project Number:
Drawing Date:
Drawn:
Checked:

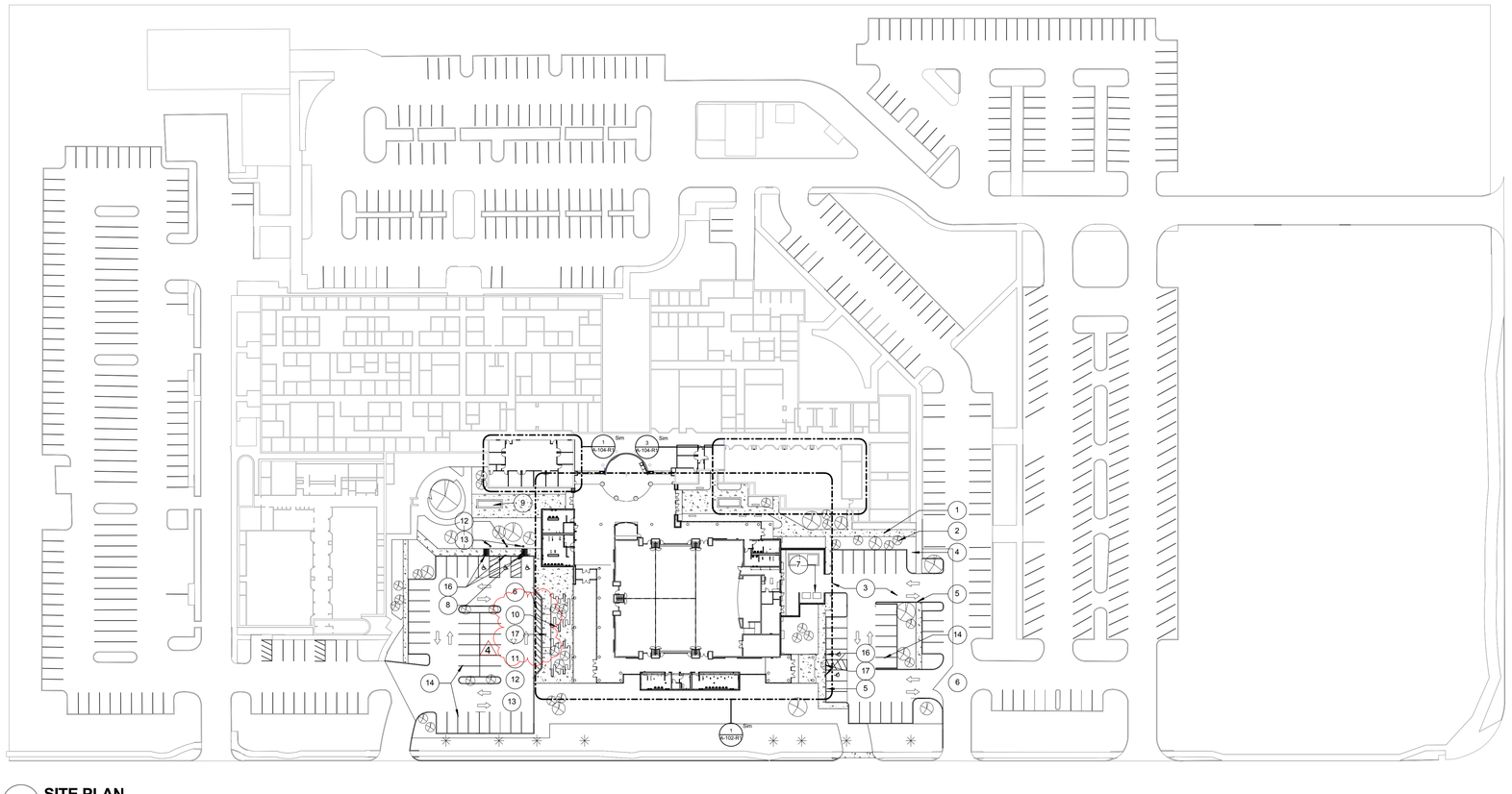
Revisions:

No.	Description	Date
1	DETAIL SHEET ADDED	03-14-19

Sheet Title:
STREET DETAILS

ADDENDUM #4

C-15.0



GENERAL SITE NOTES

1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/MEP/STRUCTURAL DRAWINGS.

2. PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE.

3. FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE.

4. THE CONTRACTOR SHALL FENCE THE ENTIRE AREA OF BUILDING CONSTRUCTION AND CONTRACTOR STAGING/PARKING WITH TEMPORARY CHAINLINK CONSTRUCTION FENCING. DO NOT USE PERMANENT PERIMETER FENCING FOR CONSTRUCTION FENCING.

5. THE CONTRACTOR SHALL KEEP VEHICULAR AND PEDESTRIAN ACCESS WAYS CLEAR AND CLEAN AT ALL TIMES.

6. THE AREA OF CONSTRUCTION SHALL BE FENCED OR BARRICADED WHILE CONSTRUCTION IS TAKING PLACE. FENCES AND BARRICADES SHALL BE MAINTAINED STRAIGHT AND ERECT DURING THE CONSTRUCTION.

7. THE CONTRACTOR STAGING AREA SHALL BE FENCED DURING THE ENTIRE CONTRACT PERIOD. THE CONTRACTOR'S FIELD OFFICE, TOILET FACILITIES, MATERIAL, EQUIPMENT, AND WORKER PARKING SHALL BE WITHIN THE STAGING AREA. THE STAGING AREA SHALL HAVE VEHICULAR ACCESS GATES AS REQUIRED BY THE CONTRACTOR AND COORDINATED WITH THE OWNER.

8. THE CONTRACTOR SHALL REPAIR, RESTORE OR REPLACE ANY EXISTING INSTALLATIONS DAMAGED BY WORK OF THIS CONTRACT INCLUDING ASPHALT ROADS, SODDED AREAS AND OTHER LANDSCAPING.

9. REMOVE ALL BARRICADES AND OTHER TEMPORARY CONSTRUCTION AT THE COMPLETION OF THE WORK.

10. THE LOCATIONS OF UTILITY LINES SHOWN ON THE SITE PLAN ARE APPROXIMATE. VERIFY THE LOCATION OF ANY UTILITY LINES PRIOR TO COMMENCING DIGGING ON THE SITE.

11. CONTRACTOR TO FIELD VERIFY ALL CITY UTILITIES (LIGHT POLES, HYDRANTS, ETC.) ALONG CITY RIGHT OF WAYS TO ENSURE THAT PROPOSED SIDEWALKS TO NOT INTERFERE.

12. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SITE WORK ASSOCIATED WITH THOSE DISCIPLINES.

13. ALL STRIPING AND TRAFFIC SIGNS SHALL MEET TXDOT STANDARDS (TYP.)

14. ALL FLATWORK SHALL MEET TEXAS ACCESSABILITY STANDARDS.

15. SEE SPECIFICATION SECTIONS "GENERAL REQUIREMENTS" FOR OTHER REQUIREMENTS.

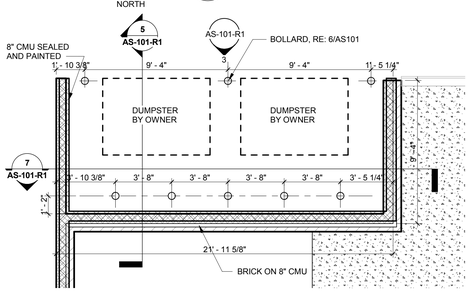
SITE KEYNOTES

1	CONCRETE FLATWORK, RE: CIVIL
2	NEW TREE - RE: LANDSCAPE
3	NEW ASPHALT PAVEMENT, RE: CIVIL
4	NEW SOD GRASS, RE: LANDSCAPE
5	NEW CONCRETE CURB AND GUTTER
6	DROP OFF LANE
7	DUMPSTER ENCLOSURE
8	HANDICAP RAMP, RE: CIVIL
9	NEW PLANTER, RE: 8/AS.101
10	NEW OUTDOOR BENCH
11	NEW BOLLARD, RE: 6/AS-101
12	NEW 40' FLAG POLE
13	NEW 30' FLAG POLE
14	NEW STRIPING
16	NEW HANDICAP SIGN
17	HANDICAP RAMP, RE: 10-11/AS-101

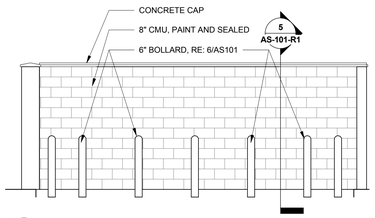
4

TRUE NORTH

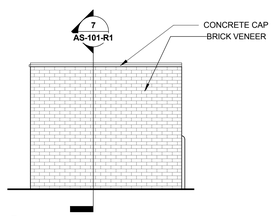
1 SITE PLAN
SCALE: 1" = 50'-0"



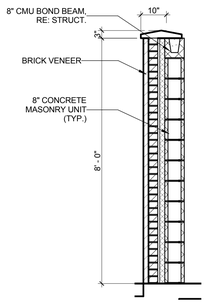
2 DUMPSTER ENCLOSURE
SCALE: 1/4" = 1'-0"



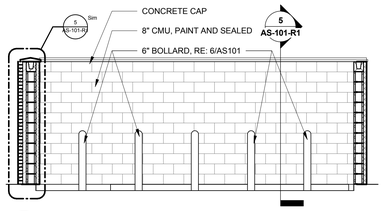
3 DUMPSTER ENCLOSURE ELEV.
SCALE: 1/4" = 1'-0"



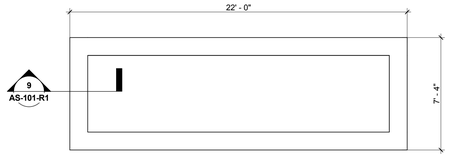
4 DUMPSTER ENCLOSURE ELEV.
SCALE: 1/4" = 1'-0"



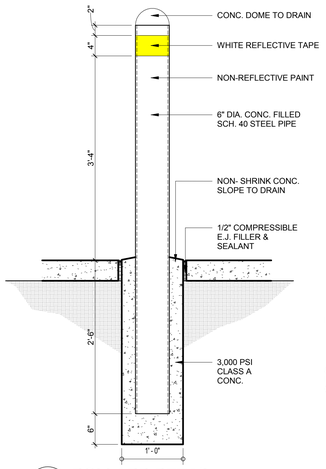
5 DUMPSTER ENCLOSURE SECTION
SCALE: 1/2" = 1'-0"



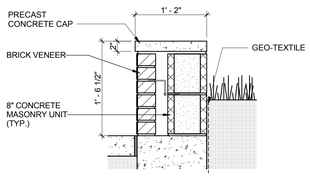
7 DUMPSTER ENCLOSURE SECTION
SCALE: 1/4" = 1'-0"



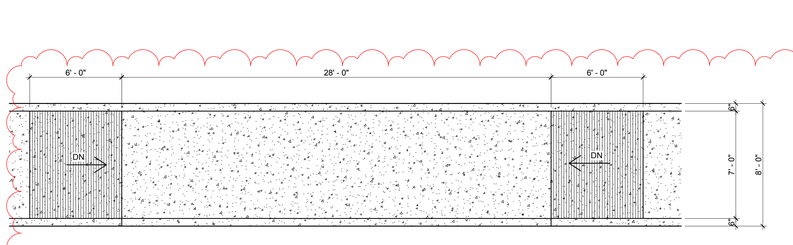
8 PLANTER
SCALE: 1/4" = 1'-0"



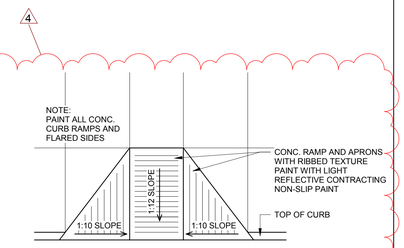
6 BOLLARD DETAIL
SCALE: 1" = 1'-0"



9 PLANTER SECTION
SCALE: 1" = 1'-0"



10 RAMP DETAIL
SCALE: 1/4" = 1'-0"



11 HC RAMP DETAIL
SCALE: 1/4" = 1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

REGISTERED ARCHITECT
RAMIRO D. GIGNAC
6295
STATE OF TEXAS

EXPIRATION DATE
11/30/2019

Project Number: 17.14
Drawing Date: 2-20-19
Drawn: -
Checked: -

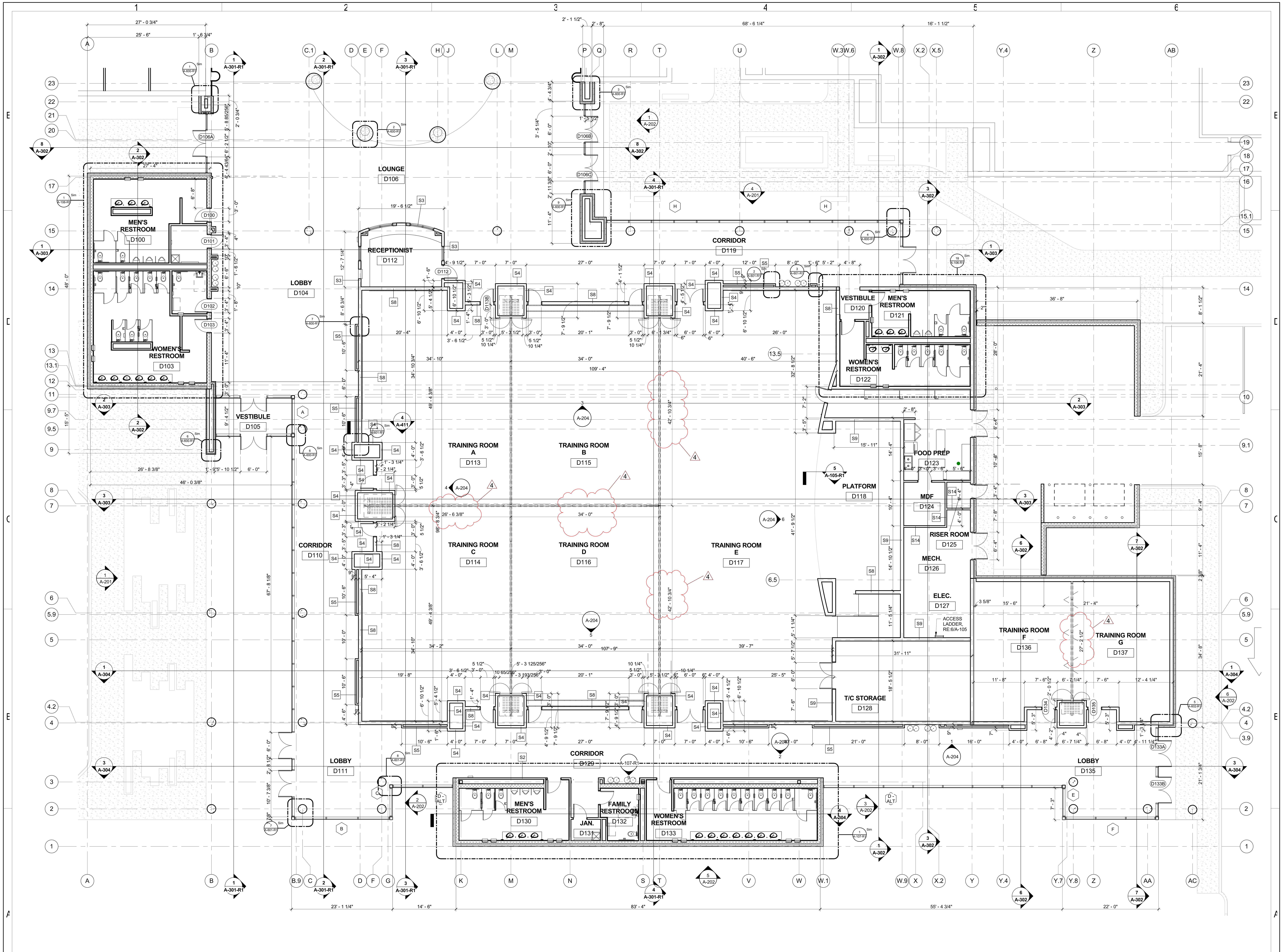
Revisions:

No.	Description	Date
4	ADDENDUM #4	Date 5

Sheet Title:
ARCHITECTURAL SITE PLAN

C:\Users\hguevara\Documents\1714-Region One Base 12-19_hguevaraMSRT2.rvt
3/15/2019 2:30:42 PM

AS-101-R1



1 FLOOR PLAN - TRAINING FACILITY W/ ALTERNATE #1
SCALE: 1/8" = 1'-0"

PLAN NORTH

C:\Users\hguevara\Documents\1714-Region One Base 12-19_hguevaraMSRT2.rvt
3/15/2019 3:18:22 PM

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

REGISTERED ARCHITECT
STATE OF TEXAS
EXPIRATION DATE
11/30/2019

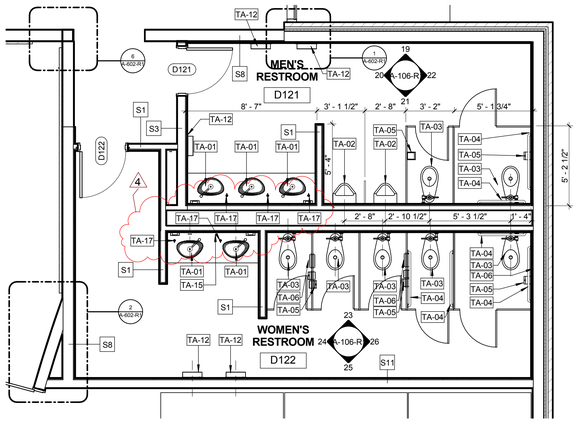
Project Number:	17.14
Drawing Date:	2-20-19
Drawn:	Author
Checked:	Checker

Revisions:

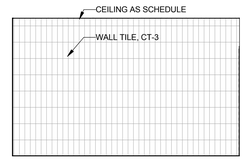
No.	Description	Date
4	ADDENDUM #4	Date 5

Sheet Title:
FLOOR PLAN - TRAINING FACILITY W/ ALTERNATE #1

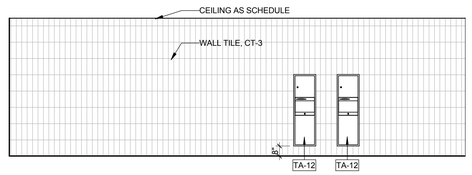
A-103-R1



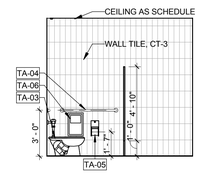
18 ENLARGED RESTROOM
SCALE: 1/4" = 1'-0"



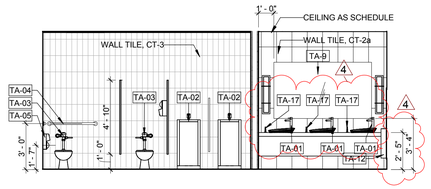
24 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



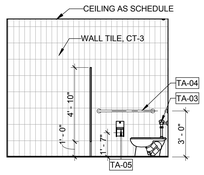
25 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



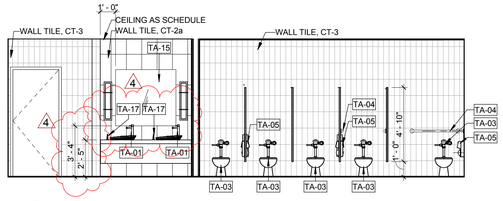
26 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



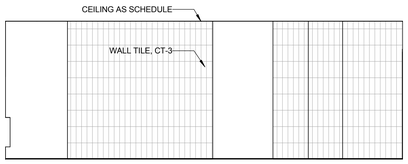
21 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



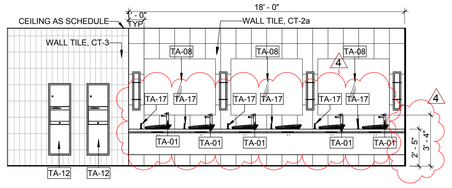
22 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



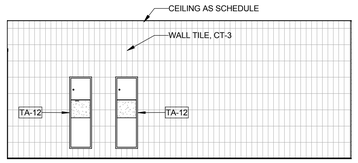
23 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



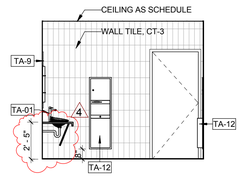
16 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



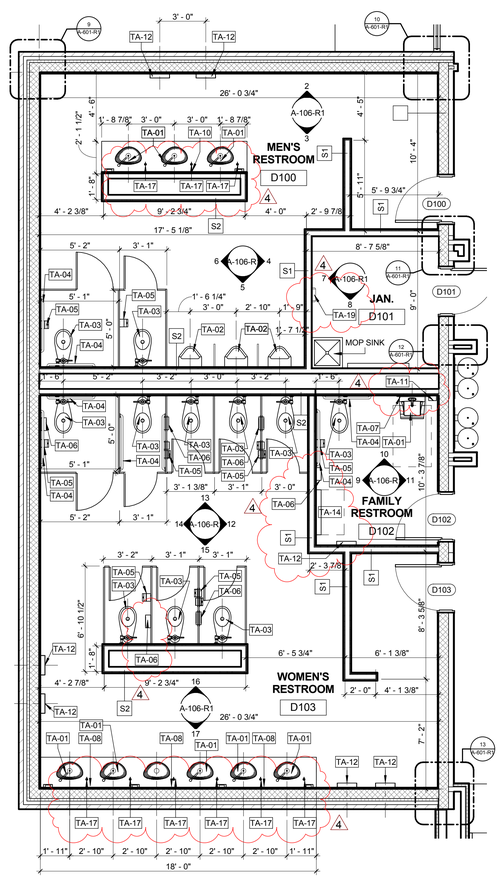
17 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



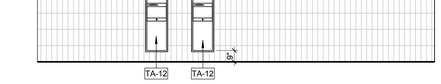
19 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



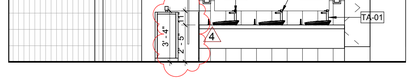
20 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



1 ENLARGED RESTROOM
SCALE: 1/4" = 1'-0"

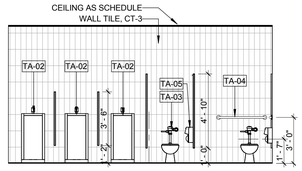


2 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

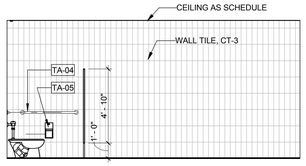


3 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

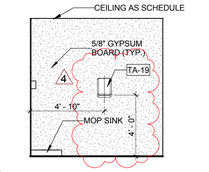
4 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



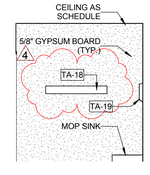
5 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



6 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



7 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



8 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

2 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

3 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

4 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

TILE LEGEND	
CT-2a	12 X 24
CT-2b	24 X 24
CT-3	4 1/4 X 12 3/4

GENERAL PLAN NOTES

1. THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION BEFORE BEGINNING CONSTRUCTION.

2. THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.

3. ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.

4. ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.

5. ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF CMU, MASONRY OR METAL STUD WALL(S) UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.

6. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.

7. ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.

8. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.

9. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.

10. PROVIDE CORNERGUARDS AT ALL INTERIOR GYP. BOARD WALL CORNERS AS SPECIFIED.

11. ALL CMU CORNERS TO HAVE A BULLNOSE UNLESS NOTED OTHERWISE.

12. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.

13. OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.

14. EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.

15. PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.

16. COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.

17. SINGLE USER TOILET ROOMS MAY BE CONFIGURED IN ACCORDANCE WITH TECHNICAL MEMORANDUM TM 03-02 ISSUED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION ALLOWING THE DOOR SWING TO ENCROACH INTO THE 5 FOOT DIAMETER TURNING CIRCLE SPACE SO LONG AS A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED.

18. REFER TO ARCHITECUTRAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH MEP DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.

19. REFER TO SHEET A-601 FOR ALL PARTITION TYPES.

20. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.

21. ALL DOORS IN INTERIOR CMU WALLS & EXTERIOR MASONRY WALLS SHALL BE SET A MINIMUM OF 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. ALL INTERIOR DOORS IN STUD WALL ASSEMBILES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.

22. SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

23. REFER TO SHEET G-002 FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.

TOILET ACCESSORIES

LABEL	DESCRIPTION		REMARKS
TA-01	LAVATORIES / SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
TA-02	URINALS	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
TA-03	WATER CLOSETS (MEASURED FROM FLOOR TO RIM)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
TA-04	GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR- 36" LONG @ REAR WALL & 42" @ LONG SIDEWALL OR 90 DEGREES CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36"
TA-05	TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
TA-06	SANITARY NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN)	STANDARD	40"
		ACCESSIBLE	
TA-07	24" X 36" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-08	3'-8" X 4'-8" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-09	3'-8" X 6'-4 1/2" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-10	3'-8" X 7'-5 3/4" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-11	SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
TA-12	PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
TA-13	PIPE PROTECTION	STANDARD	
		ACCESSIBLE	
TA-14	CHANGING TABLE	STANDARD	
		ACCESSIBLE	30" MAX
TA-15	3'-8" X 3'-11 1/4" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-16	3'-8" X 8'-0" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-17	VANITY MOUNTED SOAP DISPENSER		
TA-18	MOP AND BROOM HOLDER		
TA-19	CUSTODIAL PAPER TOWEL DISPENSER		

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS.

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

REGISTERED ARCHITECT RAMIRO D. GIGNAC 6235 STATE OF TEXAS
EXPIRATION DATE 11/30/2019

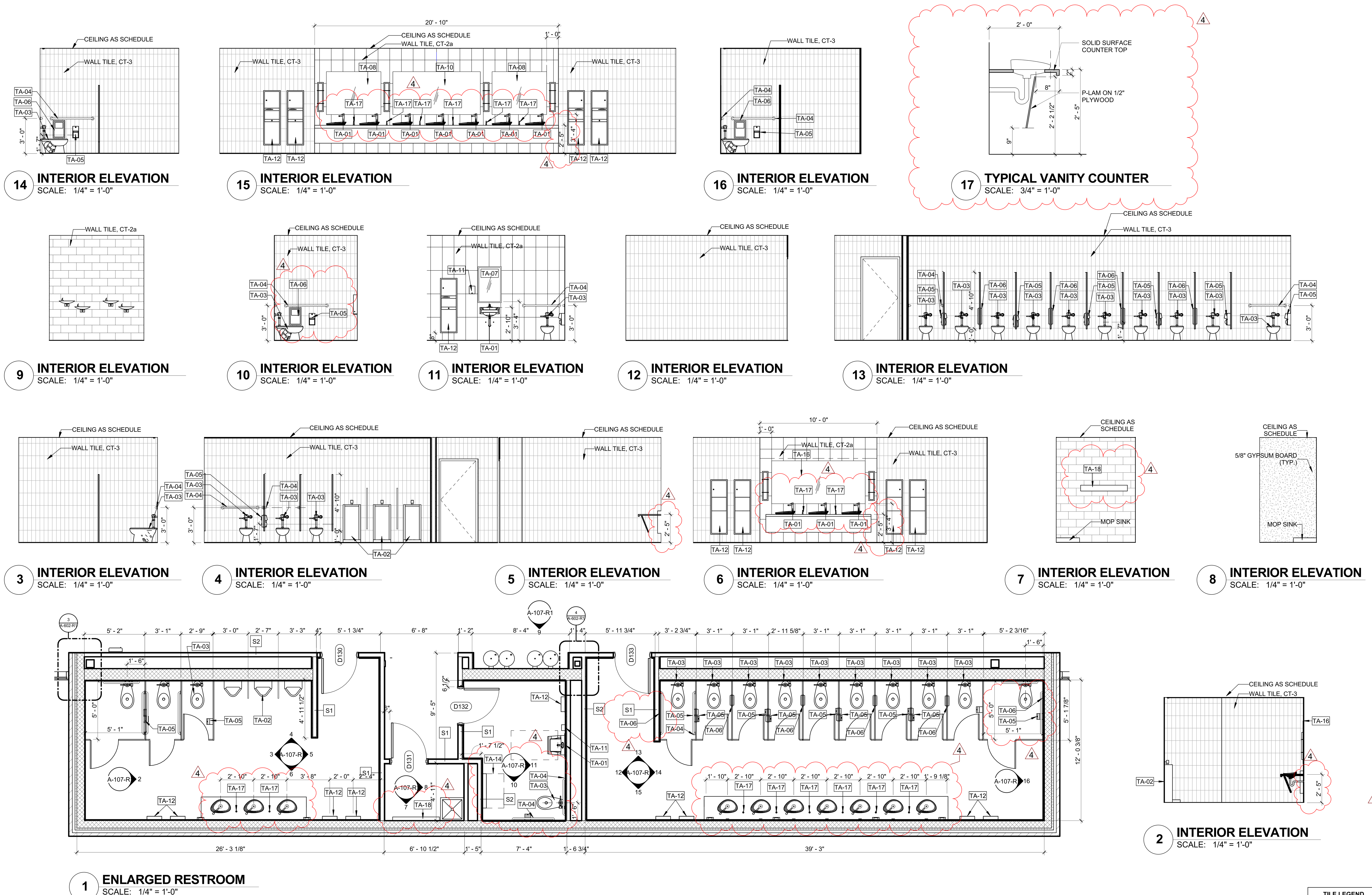
Project Number: 17.14
Drawing Date: 2-20-19
Drawn: Author
Checked: Checker

Revisions:

No.	Description	Date
4	ADDENDUM #4	Date 5

Sheet Title:
ENLARGED FLOOR PLANS

A-106-R1



TILE LEGEND	
CT-2a	12 X 24
CT-2b	24 X 24
CT-3	4 1/4 X 12 3/4

GENERAL PLAN NOTES

1. THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING ANY WORK AND REPORT ANY INCONSISTENCIES OR DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION BEFORE BEGINNING CONSTRUCTION.

2. THE DRAWINGS AND SPECIFICATIONS ARE CORRELATIVE AND HAVE EQUAL AUTHORITY AND PRIORITY. BASE DISAGREEMENTS IN THEMSELVES OR IN EACH OTHER ON THE MOST EXPENSIVE COMBINATION OF QUANTITY AND QUALITY OF WORK INDICATED.

3. ITEMS SPECIFICALLY MENTIONED IN THE SPECIFICATONS BUT NOT SHOWN ON THE DRAWINGS OR ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS SHALL BE PROVIDED AS IF THEY WERE BOTH SPECIFIED AND SHOWN IN THE DRAWINGS.

4. ALL MINOR DETAILS OF WORK WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, AS WELL AS SUCH ITEMS WHICH ARE NOT SPECFICALLY MENTIONED IN THE SPECIFICATIONS, BUT ARE NECESSARY FOR THE PROPER COMPLETION OF THE WORK, SHALL BE CONSIDERED AS INCIDENTAL AND AS BEING PART OF AND INCLUDED WITH THE WORK FOR WHICH PRICES ARE GIVEN IN THE PROPOSAL AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE PERFORMANCE THEREOF.

5. ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF CMU, MASONRY OR METAL STUD WALL(S) UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS ARE NOTED "AS CLEAR" DIMENSION SHALL BE FROM FINISH TO FINISH.

6. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.

7. ALL SPACES WITH FLOOR DRAINS - SLOPE NOT TO EXCEED 2% (ONE - IN - FIFTY) IN ANY DIRECTION. COORDINATE ALL FLOOR DRAINS WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH-IN AND CONCRETE PLACEMENT.

8. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.

9. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS.

10. PROVIDE CORNERGUARDS AT ALL INTERIOR GYP. BOARD WALL CORNERS AS SPECIFIED.

11. ALL CMU CORNERS TO HAVE A BULLNOSE UNLESS NOTED OTHERWISE.

12. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH ELEVATION CHANGES SHALL HAVE THRESHOLDS OR REDUCERS STRIPS AS SPECIFIED.

13. OPEN EXTERIOR JOINTS AROUND DOOR AND WINDOW FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT WALL AND ROOF PENETRATIONS AND ANY OTHER BUILDING ENVELOPE PENETRATION SHALL BE SEALED, CAULKED AND/OR WEATHER-STRIPPED TO PREVENT OR LIMIT AIR, MOISTURE AND VAPOR PENETRATION. USE ONLY SPECIFIED MANUFACTURER APPROVED MATERIALS AS DIRECTED BY MATERIAL MANUFACTURERS.

14. EFFECTIVELY ISOLATE ALL DISSIMILAR METALS/ MATERIALS TO PREVENT CORROSION BY ELECTROLYTIC ACTION OR OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER OR SUPPLIER.

15. PROPERLY TERMINATE ALL MATERIALS WITH APPROPRIATE TRIM, FLASHING, SEALANT, EXPANSION CONTROL, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED FOR PROPER INSTALLATION AS ACCEPTED BY STANDARD BUILDING PRACTICE.

16. COORDINATE AND PROVIDE APPROPRIATE BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, HANDRAILS, CASEWORK, ETC. AS REQUIRED. WOOD BLOCKING SHALL MEET CODE REQUIREMENTS.

17. SINGLE USER TOILET ROOMS MAY BE CONFIGURED IN ACCORDANCE WITH TECHNICAL MEMORANDUM TM 03-02 ISSUED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION ALLOWING THE DOOR SWING TO ENCROACH INTO THE 5 FOOT DIAMETER TURNING CIRCLE SPACE SO LONG AS A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED.

18. REFER TO ARCHITECUTRAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. COORDINATE ALL LIGHT FIXTURES, MECHANICAL DIFFUSERS, NOTIFICATION DEVICES, ETC. WITH MEP DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.

19. REFER TO SHEET A-601 FOR ALL PARTITION TYPES.

20. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. ALL HOUSEKEEPING PADS SHALL BE A MINIMUM OF 4" TALL REINF. W/ #3 BARS AT 15" O.C.B.W. AND PROVIDE 1" (45- DEGREE) CHAMFERED EDGES UNLESS NOTED OTHERWISE.

21. ALL DOORS IN INTERIOR CMU WALLS & EXTERIOR MASONRY WALLS SHALL BE SET A MINIMUM OF 6" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. ALL INTERIOR DOORS IN STUD WALL ASSEMBILES SHALL BE SET A MINIMUM OF 4" OFF THE PERPENDICULAR ADJACENT WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS FOR RESOLUTION.

22. SET ALL EXTERIOR DOOR THRESHOLDS IN FULL BED OF MANUFACTURER APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

23. REFER TO SHEET G-002 FOR MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT AS SCHEDULED. REFER TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS, ARCHITECTURAL BARRIERS DIVISION TEXAS ACCESSIBILITY STANDARDS FOR ALL MOUNTING HEIGHTS NOT LISTED AND FOR FURTHER CLARIFICATION AS NEEDED.

TOILET ACCESSORIES

LABEL	DESCRIPTION		REMARKS
TA-01	LAVATORIES / SINK (MEASURED FROM FLOOR TO RIM)	STANDARD	32"
		ACCESSIBLE	34" MAX (29" MIN KNEESPACE)
TA-02	URINALS	STANDARD	16" MAX
		ACCESSIBLE	17" MAX
TA-03	WATER CLOSETS (MEASURED FROM FLOOR TO RIM)	STANDARD	15"
		ACCESSIBLE	17" TO 19"
TA-04	GRAB BARS (MEASURED FROM FLOOR TO CENTERLINE OF BAR- 36" LONG @ REAR WALL & 42" @ LONG SIDEWALL OR 90 DEGREES CONT. GRAB BAR WHERE INDICATED)	STANDARD	
		ACCESSIBLE	33" TO 36"
TA-05	TOILET TISSUE DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF ROLL)	STANDARD	20"
		ACCESSIBLE	19" MIN
TA-06	SANITARY NAPKIN DISPOSAL (MEASURED FROM FLOOR TO TOP OF UNIT) (ONLY IN ROOMS LABELED WOMEN)	STANDARD	40"
		ACCESSIBLE	
TA-07	24" X 36" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-08	3'-8" X 4'-8" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-09	3'-8" X 6'-4 1/2" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-10	3'-8" X 7'-5 3/4" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-11	SOAP DISPENSER (MEASURED FROM FLOOR TO CENTERLINE OF PUSH BUTTON)	STANDARD	38"
		ACCESSIBLE	38"
TA-12	PAPER TOWEL DISPENSER / TRASH RECEPTACLE COMBO (MEASURED FROM FLOOR TO TOWEL SLOT)	STANDARD	48"
		ACCESSIBLE	48"
TA-13	PIPE PROTECTION	STANDARD	
		ACCESSIBLE	
TA-14	CHANGING TABLE	STANDARD	
		ACCESSIBLE	30" MAX
TA-15	3'-8" X 3'-11 1/4" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-16	3'-8" X 8'-0" MIRROR (MEASURED FROM FLOOR TO BOTTOM OF REFLECTING SURFACE)	STANDARD	
		ACCESSIBLE	40" MAX
TA-17	VANITY MOUNTED SOAP DISPENSER		
TA-18	MOP AND BROOM HOLDER		
TA-19	CUSTODIAL PAPER TOWEL DISPENSER		

4

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
4. ALIGN MIRROR ON CENTER OF LAVATORY.
5. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS.

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

STATE OF TEXAS 6296
EXPIRATION DATE
11/30/2019

Project Number:	17.14
Drawing Date:	2-20-19
Drawn:	Author
Checked:	Checker

Revisions:

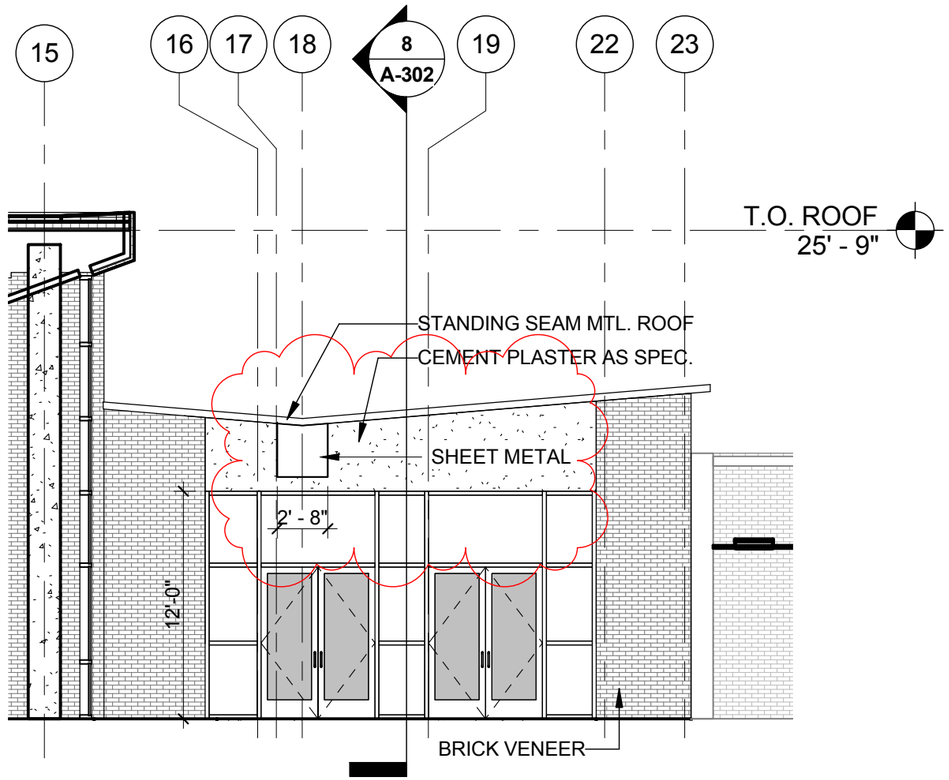
No.	Description	Date
4	ADDENDUM #4	Date 5

Sheet Title:

ENLARGED FLOOR PLANS

A-107-R1

C:\Users\hguevara\Documents\1714-Region One Base 12-19_hguevaraMSRT2.rvt
3/15/2019 2:29:21 PM



1 EXT. ELEVATION - WEST COURTYARD

SCALE: 1/8" = 1'-0"

GIGNAC
ARCHITECTS
ARCHITECTURE | CONSTRUCTION MANAGEMENT

3700 N. 10TH STREET SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100

416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

REGISTERED ARCHITECT
RAYMOND D. GIGNAC
6296
STATE OF TEXAS

EXPIRATION DATE
11/30/2019

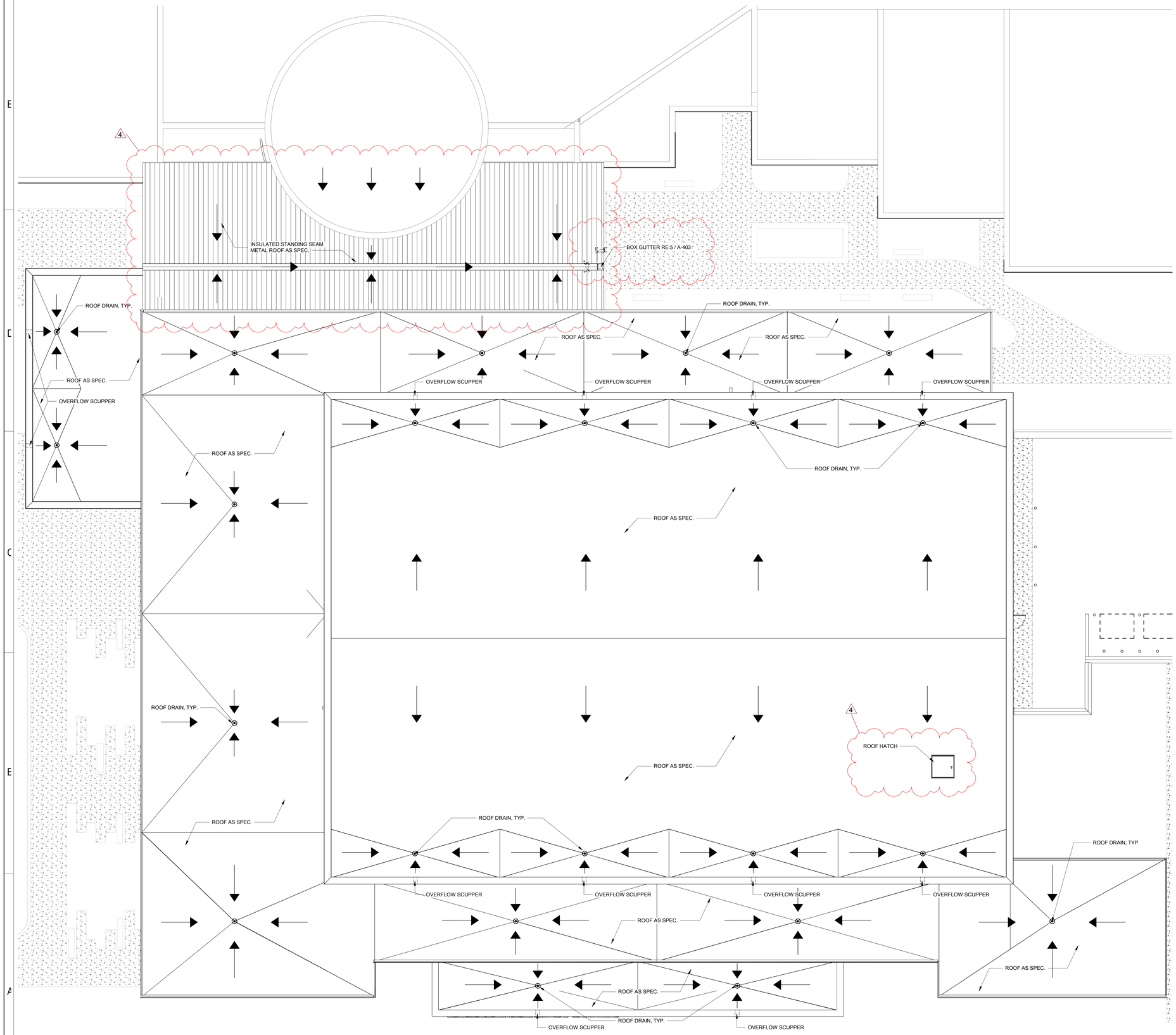
Project Name
REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

Project No.: 17.14

DATE: 03/18/19

SHEET TITLE:
EXTERIOR ELEVATIONS

A-202



A1 **ROOF PLAN**
SCALE: 1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

GENERAL PLAN NOTES

1. CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, MEP, & STRUCTURAL PLANS TO ASCERTAIN EXACT CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND NRCA STANDARDS.

2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN ON THESE ROOF PLAN AND ROOF DETAILS ARE FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO CONFIRM AND GENERAL CONTRACTOR TO COORDINATE.

3. REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. AREAS ARE MARKED WITH DESIGNATED LETTER, SEE ROOF PLAN AND NOMENCLATURE.

4. MINIMUM SLOPE ALLOWABLE ON THE ROOF SHALL BE NO LESS THAN 1/4" PER FOOT. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" IN WIDTH.

5. ALL NEW CRICKET AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISH 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS.

6. ALL PIPING/ CONDUITS/ ETC. SHALL BE A MIN. 10" ABOVE ROOF SURFACE. PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS. (RE:07721) - MEP CONTRACTOR SHALL PROVIDE SUPPORTS FOR NEW LINES.

7. PROVIDE 22 ga. STAINLESS STEEL, 2D FINISH, TREATED WOOD CURB AND BOX HOOD AT ALL GAS LINE AND WATER LINE ROOF PENETRATIONS (RE: GENERAL DETAILS).

8. ISOLATE ALL HEAT PIPES/FLUES AS RECOMMENDED & OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING. (RE: GENERAL DETAILS.)

9. REFER TO MEP DRAWINGS FOR SIZE AND LOCATION OF NEW DECK PENETRATIONS AND ROOF TOP EQUIPMENT.

10. PROVIDE WALKWAY PROTECTION PADS (RE:SPECS) AROUND ALL ROOF HATCHES, A/C UNITS, AND AT ALL ROOF TOP ACCESS DOORS AND LADDERS (TOP & BOTTOM)

11. REFER TO GENERAL DETAILS FOR TYPICAL SPLASH PAN, ROOF DRAIN AND OVERFLOW DRAIN DETAILS.

12. GENERAL CONTRACTOR TO ENSURE ALL ROOFTOP PENETRATIONS (EQUIP, SOIL STACKS, ETC.) ARE INSTALLED MIN. 2'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE.

13. THROUGH WALL BASE FLASHING MIN. HEIGHT 10" AND MAX. HEIGHT 20" FROM FINISH DECK. DO NOT STEP THROUGH WALL FLASHING CLOSER THAN 5'-0" FROM CORNERS.

14. LOCATE PERIMETER DRAINS MAX. 6'-0" FROM EDGE TYPICAL UNLESS SHOWN OTHERWISE. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR.)

15. GENERAL CONTRACTOR TO COORDINATE LOCATION AND ORIENTATION ON ROOF HATCH AND ACCESS LADDER, WHERE APPLICABLE.

16. UPON SUBSTANTIAL COMPLETION THE GENERAL CONTRACTOR SHALL EXAMINE AND ENSURE DRAIN LINES, GUTTERS AND DOWNSPOUTS ARE FREE OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY, WHERE APPLICABLE.

SLOPE INDICATES INTENDED DIRECTION OF WATER DRAINAGE

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

REGISTERED ARCHITECT RAYMUNDO D. GIGNAC 6295 STATE OF TEXAS

EXPIRATION DATE
11/30/2019

Project Number:	17.14
Drawing Date:	2-20-19
Drawn:	-
Checked:	-

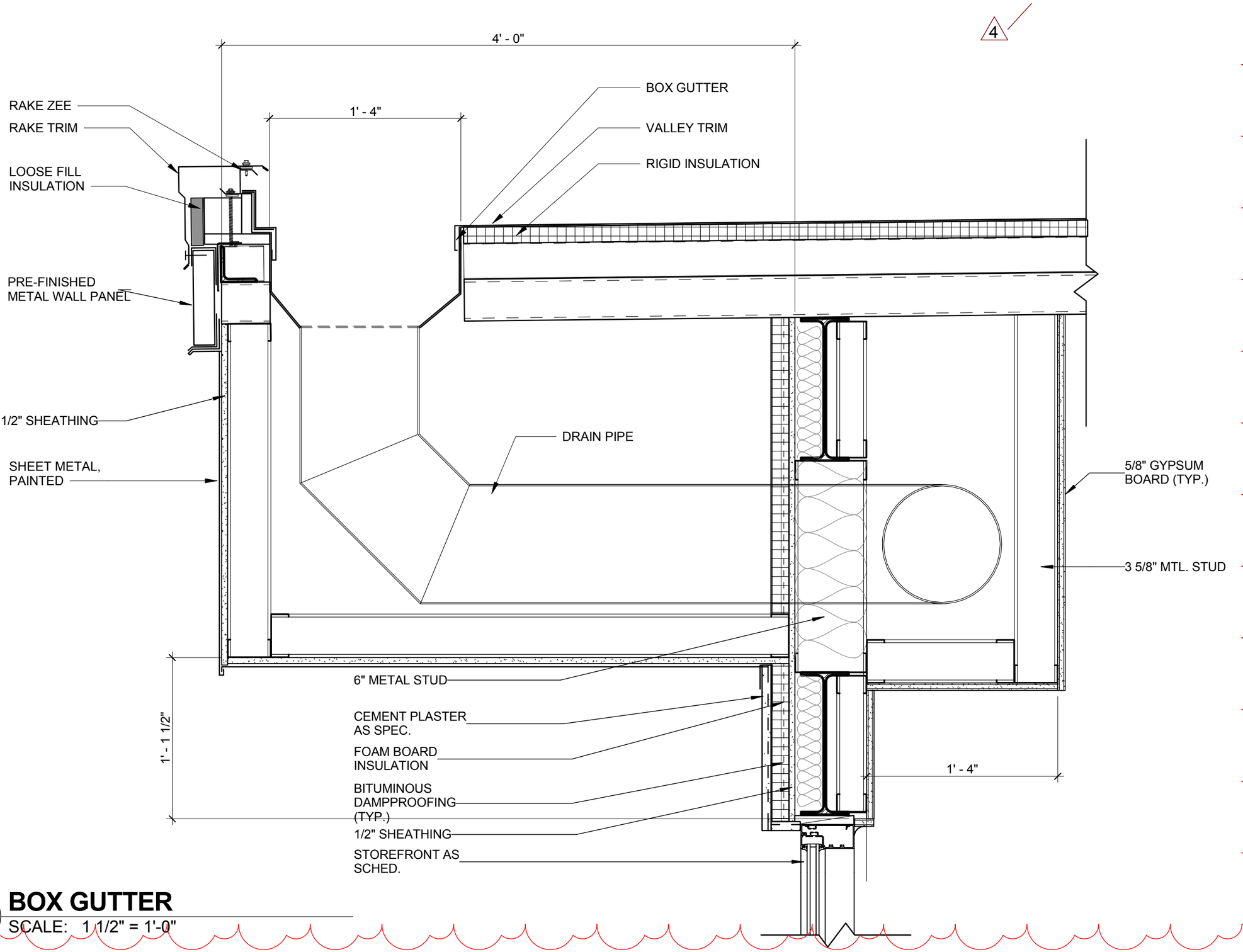
Revisions:

No.	Description	Date
4	ADDENDUM #4	Date 5

Sheet Title:
COMPOSITE ROOF PLAN

A-400-R1

C:\Users\hguevara\Documents\1714-Region One Base 12-19_hguevaraMSRT2.rvt
3/15/2019 2:29:23 PM



5 **BOX GUTTER**
SCALE: 1 1/2" = 1'-0"

GIGNAC ARCHITECTS
ARCHITECTURE | CONSTRUCTION MANAGEMENT
3700 N. 10TH STREET SUITE 205
McALLEN, TEXAS 78501
T 956.686.0100
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

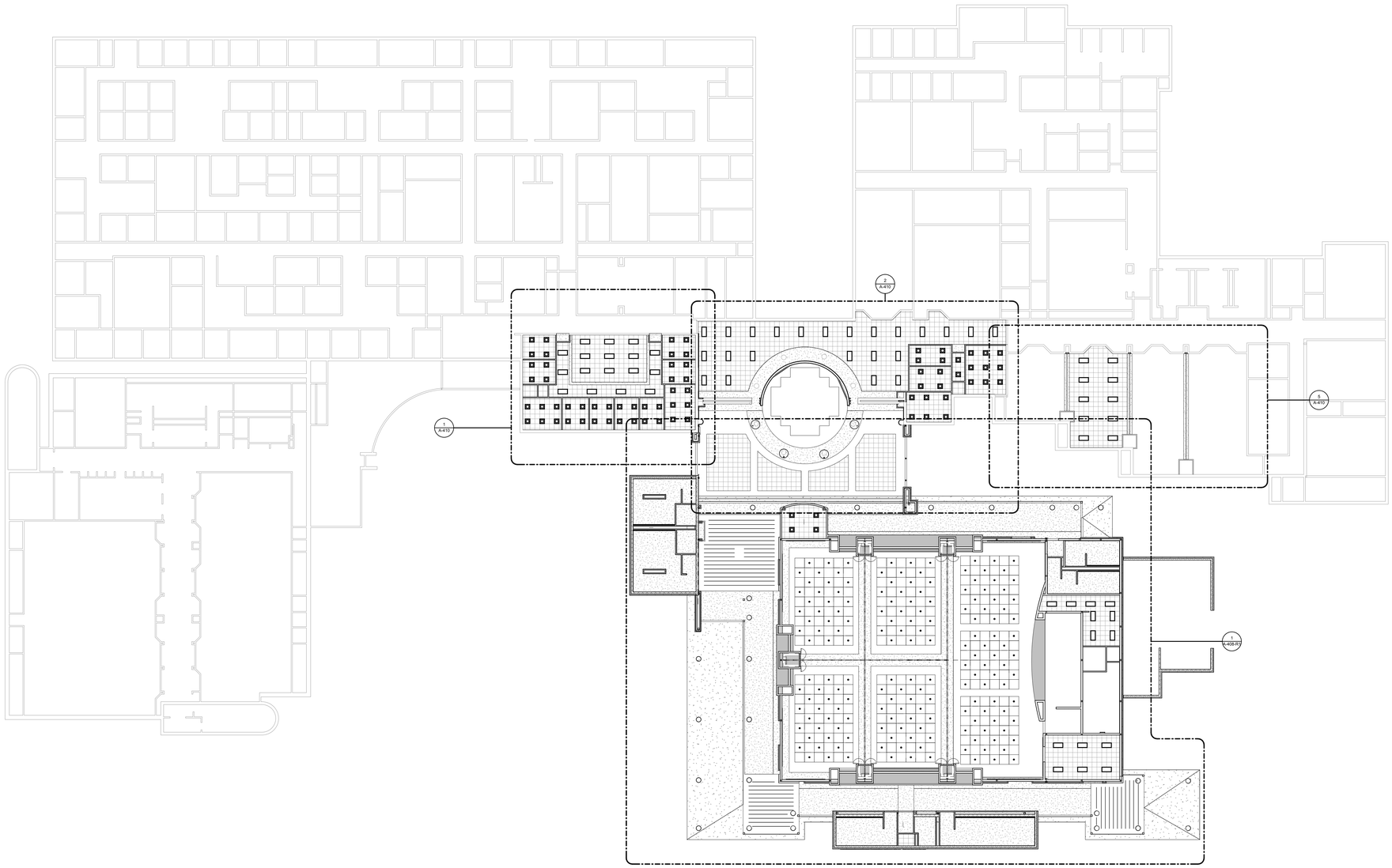
REGISTERED ARCHITECT RAYMOND D. GIGNAC 6296 STATE OF TEXAS

EXPIRATION DATE
11/30/2019

Project Name
REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

Project No.: 17.14
DATE: 03/18/19
SHEET TITLE:
ROOF DETAILS

A-403



GENERAL NOTES

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.

6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.

7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

CEILING LEGEND:

- 2x4 RECESS LIGHT FIXTURE
- 2x2 RECESS LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- SOFFIT VENT
- 2x2 SUSPENDED LAY-IN CEILING
- 5/8" GYP.SUM BOARD CEIILING
- PLASTER
- OPEN CELL CEILING
- OFFSET COFFERED CEILING
- WOOD CEILING
- SUSPENDED METAL BAFFLES

4

1 REFLECTED CEILING PLAN
SCALE: 1" = 20'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

REGISTERED ARCHITECTS — RAYMOND D. GIGNAC — 6295 — STATE OF TEXAS
EXPIRATION DATE
11/30/2019

Project Number: 17.14
Drawing Date: 2-20-19
Drawn: Author
Checked: Checker

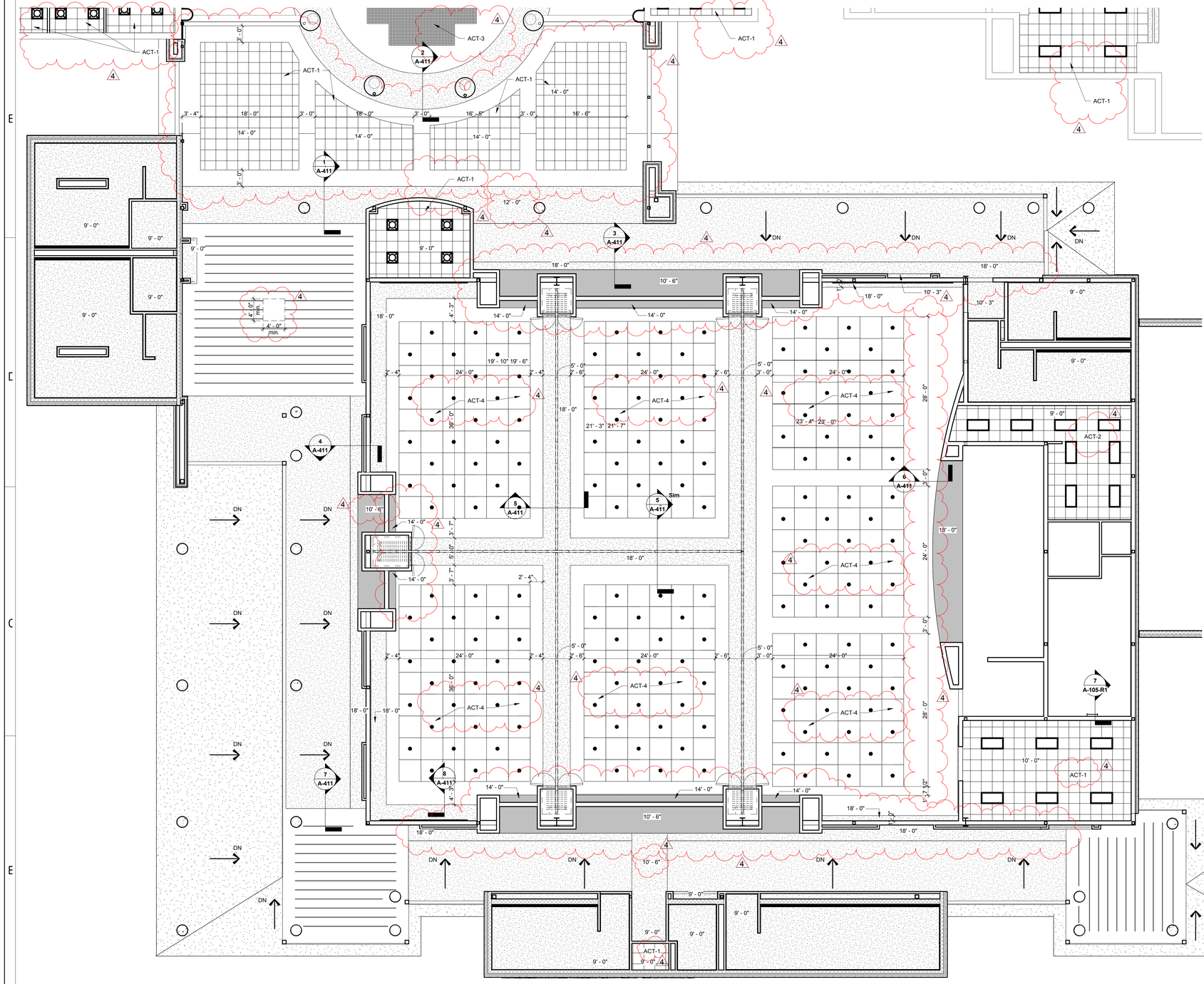
Revisions:

No.	Description	Date
4	ADDENDUM #4	Date 5

Sheet Title:
COMPOSITE REFLECTED CEILING PLAN

A-407-R1

C:\Users\hguevara\Documents\1714-Region One Base 12-19_hguevaraMSRT2.rvt
3/15/2019 2:29:30 PM



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.

6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.

7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

CEILING LEGEND:

- 2x4 RECESS LIGHT FIXTURE
- 2x2 RECESS LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- SOFFIT VENT
- ACT-1 OR ACT-2 2x2 SUSPENDED LAY-IN CEILING
- 5/8" GYP.SUM BOARD CEILILNG
- PLASTER
- ACT-3 OPEN CELL CEILING
- ACT-4 OFFSET COFFERED WOOD CEILING
- FLUSH WOOD PANELING
- SUSPENDED METAL BAFFLES

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

REGISTERED ARCHITECT RAYMUNDO D. GIGNAC 6295 STATE OF TEXAS

EXPIRATION DATE
11/30/2019

Project Number: 17.14
Drawing Date: 2-20-19
Drawn: -
Checked: -

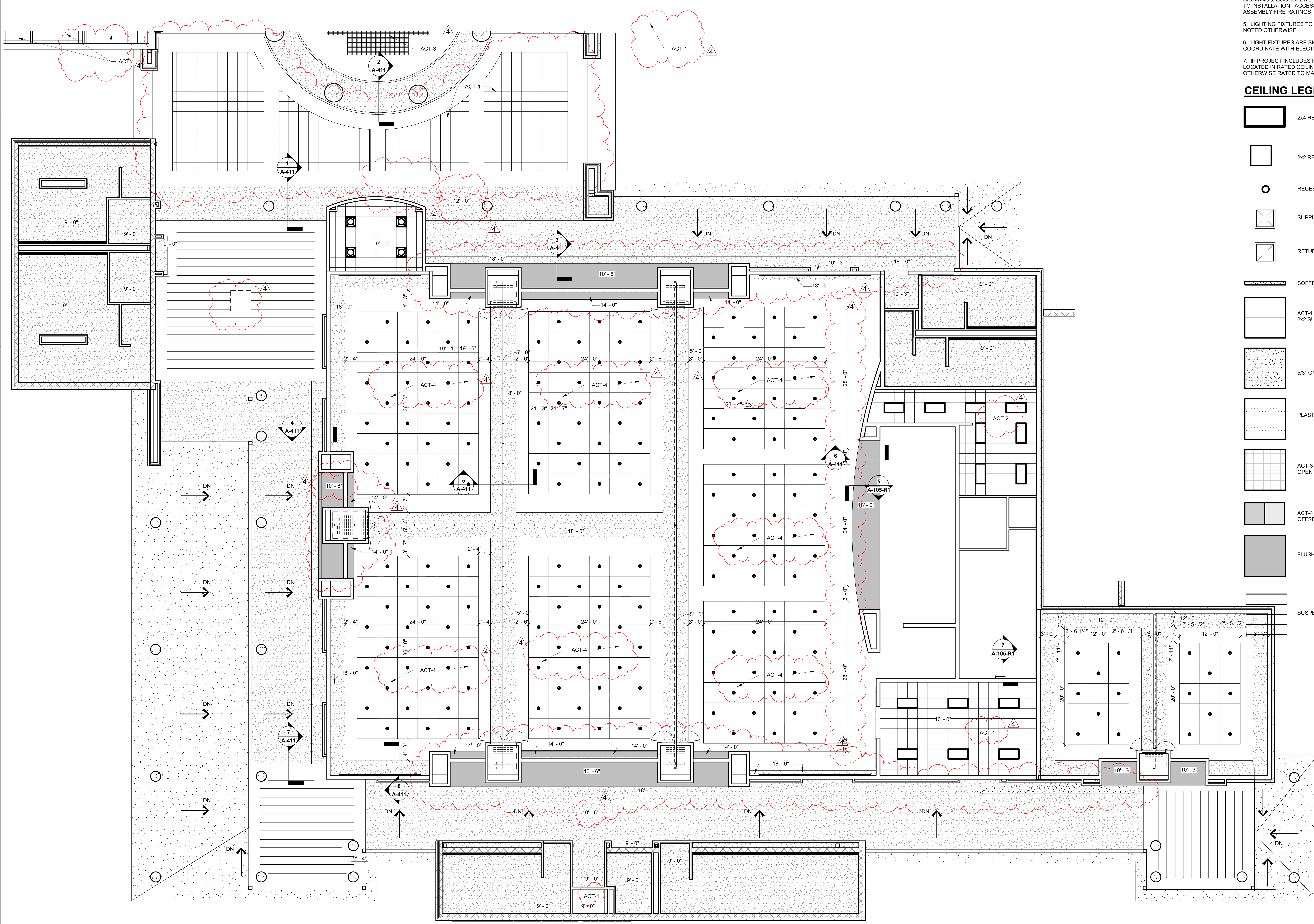
Revisions:

No.	Description	Date
4	ADDENDUM #4	Date 5

Sheet Title:
REFLECTED CEILING PLAN - TRAINING FACILITY

A-408-R1

C:\Users\hguevara\Documents\1714-Region One Base 12-19_hguevaraMSRT2.rvt
3/15/2019 2:29:47 PM



1 REFLECTED CEILING PLAN W/ ALTERNATE
SCALE: 1/8" = 1'-0"

GENERAL NOTES

GENERAL CEILING NOTES

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL. 0'-0")

2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.

3. SOME OR ALL SPRINKLERS MAY NOT BE SHOWN ON THIS PLAN. COORDINATE WITH MEP DRAWINGS FOR ADDITIONAL INFORMATION. SPRINKLER HEADS TO BE CENTERED ON CEILING TILE, TYP.

4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.

5. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.

6. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.

7. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

CEILING LEGEND:

- 2x4 RECESS LIGHT FIXTURE
- 2x2 RECESS LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- SUPPLY DIFFUSER REGISTER
- RETURN GRILLE
- SOFFIT VENT
- ACT-1 OR ACT-2 2x2 SUSPENDED LAY-IN CEILING
- 5/8" GYP.SUM BOARD CEILILNG
- PLASTER
- ACT-3 OPEN CELL CEILING
- ACT-4 OFFSET COFFERED WOOD CEILING
- FLUSH WOOD PANELING
- SUSPENDED METAL BAFFLES

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

EXPIRATION DATE 11/30/2019

Project Number:	17.14
Drawing Date:	2-20-19
Drawn:	Author
Checked:	Checker

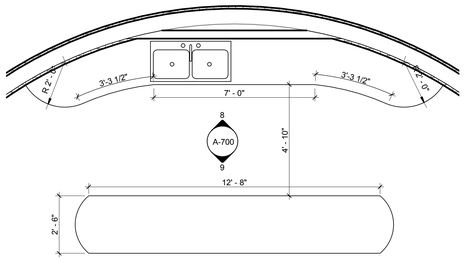
Revisions:

No.	Description	Date
4	ADDENDUM #4	Date 5

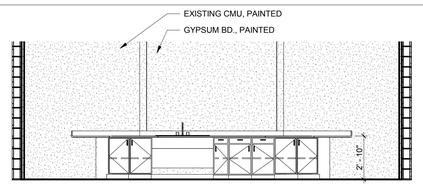
Sheet Title:
REFLECTED CEILING PLAN - TRAINING FACILITY W/ ALTERNATE #1

A-409-R1

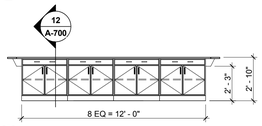
C:\Users\hguevara\Documents\1714-Region One Base 12-19_hguevaraMSRT2.rvt
3/15/2019 2:30:06 PM



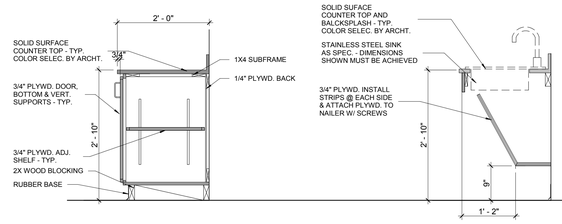
7 ENLARGED FLOOR PLAN-CAFE
SCALE: 3/8" = 1'-0"



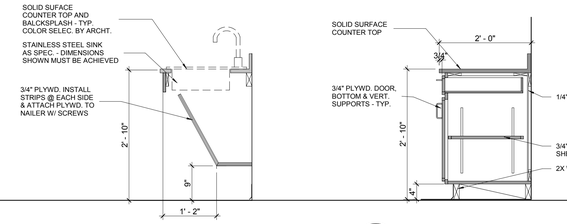
8 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



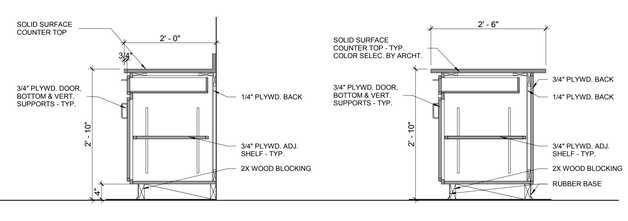
9 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



10 MILLWORK SECTION
SCALE: 3/4" = 1'-0"

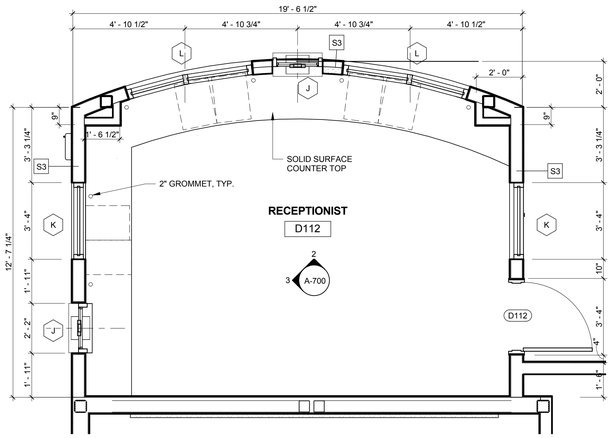


11 MILLWORK SECTION
SCALE: 3/4" = 1'-0"

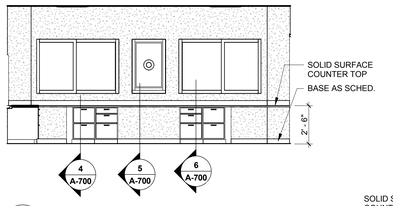


12 MILLWORK SECTION
SCALE: 3/4" = 1'-0"

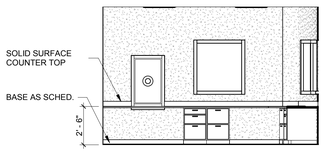
13 MILLWORK SECTION
SCALE: 3/4" = 1'-0"



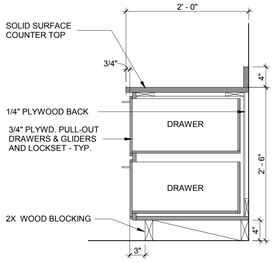
1 ENLARGED FLOOR PLAN-RECEPTIONIST
SCALE: 3/8" = 1'-0"



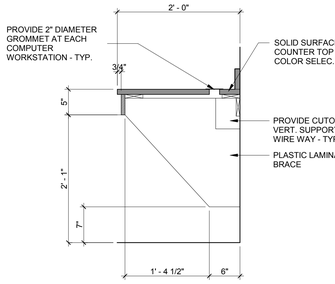
2 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



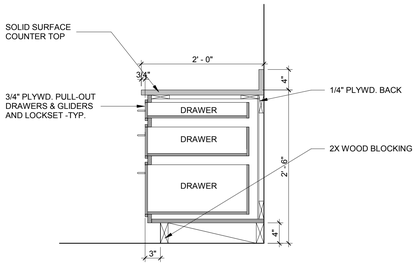
3 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



4 MILLWORK SECTION
SCALE: 1" = 1'-0"



5 MILLWORK SECTION
SCALE: 1" = 1'-0"



6 MILLWORK SECTION
SCALE: 1" = 1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

REGISTERED ARCHITECT
RAMIRO D. GIGNAC
6295
STATE OF TEXAS

EXPIRATION DATE
11/30/2019

Project Number:	17.14
Drawing Date:	2-20-19
Drawn:	Author
Checked:	Checker

Revisions:

No.	Description	Date
4	ADDENDUM #4	Date 5

Sheet Title:
MILLWORK DETAILS

4
A-700

C:\Users\hguevara\Documents\1714-Region One Base 12-19_hguevaraMSRT2.rvt
3/18/2019 1:33:11 PM

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISHES				CEILING FINISH	CEILING HEIGHT	REMARKS
				NORTH	EAST	SOUTH	WEST			
A100	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A101	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A102	STOR.	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A103	STOR.	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A104	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A105	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A106	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A107	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A108	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A109	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A110	COPY ROOM	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A111	FILE ROOM	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A112	P/A	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
B100	CAFE	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN CELL GRID	13'-0"	
B101	VESTIBULE	STAINED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	11'-0"	
C100	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C101	L.P. ASSIST.	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C102	OPERATIONS	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C103	CORRIDOR	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C104	STR.	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C105	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C106	TRAINING ROOM A1	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
C107	TRAINING ROOM B1	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	12'-0"	
C108	TRAINING ROOM C1	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	14'-0"	
C109	TRAINING ROOM D1	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	14'-0"	
D100	MEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D101	JAN.	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYP.	9'-0"	
D102	FAMILY RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D103	WOMEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D104	LOBBY	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	GYP./BAFFLES	VARIES	
D105	VESTIBULE	STAINED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYP.	VARIES	
D106	LOUNGE	STAINED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	14'-0"	
D110	CORRIDOR	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	ACT	VARIES	
D111	LOBBY	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	ACT/BAFFLES	VARIES	
D112	RECEPTIONIST	STAINED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
D113	TRAINING ROOM A	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D114	TRAINING ROOM C	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D115	TRAINING ROOM B	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D116	TRAINING ROOM D	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D117	TRAINING ROOM E	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D118	PLATFORM	WOOD	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D119	CORRIDOR	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	GYP.	VARIES	
D120	VESTIBULE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYP.	9'-0"	
D121	MEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D122	WOMEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D123	FOOD PREP	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
D124	MDF	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D125	RISER ROOM	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D126	MECH.	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D127	ELEC.	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D128	T/C STORAGE	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
D130	MEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D131	JAN.	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
D132	FAMILY RESTROOOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D133	WOMEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D134	LOBBY	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	GYP./BAFFLES	VARIES	

ROOM FINISH SCHEDULE W/ ALTERNATE 1

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISHES				CEILING FINISH	CEILING HEIGHT	REMARKS
				NORTH	EAST	SOUTH	WEST			
A100	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A101	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A102	STOR.	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A103	STOR.	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A104	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A105	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A106	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A107	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A108	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A109	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A110	COPY ROOM	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A111	FILE ROOM	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
A112	P/A	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
B100	CAFE	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN CELL GRID	13'-0"	
B101	VESTIBULE	STAINED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	11'-0"	
C100	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C101	L.P. ASSIST.	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C102	OPERATIONS	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C103	CORRIDOR	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C104	STR.	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C105	OFFICE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
C106	TRAINING ROOM A1	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
C107	TRAINING ROOM B1	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	12'-0"	
C108	TRAINING ROOM C1	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	14'-0"	
C109	TRAINING ROOM D1	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	14'-0"	
D100	MEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D101	JAN.	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYP.	9'-0"	
D102	FAMILY RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D103	WOMEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D104	LOBBY	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	GYP./BAFFLES	VARIES	
D105	VESTIBULE	STAINED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYP.	VARIES	
D106	LOUNGE	STAINED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	14'-0"	
D110	CORRIDOR	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	ACT	VARIES	
D111	LOBBY	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	ACT/BAFFLES	VARIES	
D112	RECEPTIONIST	STAINED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
D113	TRAINING ROOM A	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D114	TRAINING ROOM C	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D115	TRAINING ROOM B	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D116	TRAINING ROOM D	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D117	TRAINING ROOM E	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D118	PLATFORM	WOOD	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D119	CORRIDOR	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	GYP.	VARIES	
D120	VESTIBULE	CARPET	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	GYP.	9'-0"	
D121	MEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D122	WOMEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D123	FOOD PREP	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
D124	MDF	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D125	RISER ROOM	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D126	MECH.	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D127	ELEC.	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	OPEN		
D128	T/C STORAGE	LVT	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	10'-0"	
D130	MEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D131	JAN.	SEALED CONCRETE	RUBBER BASE	PAINT	PAINT	PAINT	PAINT	ACT	9'-0"	
D132	FAMILY RESTROOOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D133	WOMEN'S RESTROOM	CERAMIC TILE	TILE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	GYP.	9'-0"	
D134	LOBBY	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	GYP./BAFFLES	VARIES	
D135	LOBBY	STAINED CONCRETE	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	GYP./BAFFLES	VARIES	
D136	TRAINING ROOM F	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	
D137	TRAINING ROOM G	CARPET	RUBBER BASE	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	PAINT/WOOD	COFFERED CEILING	VARIES	

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE - EDUCATION SERVICE CENTER ADDITIONS AND RENOVATIONS
EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

REGISTERED ARCHITECT EDMUNDO D. GIGNAC 6295 STATE OF TEXAS

EXPIRATION DATE
11/30/2019

Project Number: 17.14
Drawing Date: 2-20-19
Drawn: Author
Checked: Checker

Revisions:

No.	Description	Date

Sheet Title:
FINISH SCHEDULES

A-701

KEYNOTES

OFFICE A109
brace line 2
LOUNGE D106
MEN'S RESTROOM D100
JAN. D101
FAMILY RESTROOM D102
WOMEN'S RESTROOM D103
LOBBY D104
RECEPTIONIST D112
CORRIDOR D119
VESTIBULE D120
MEN'S RESTROOM D121
WOMEN'S RESTROOM D122
VESTIBULE D105
TRAINING ROOM A D113
TRAINING ROOM B D115
FOOD PREP D123
RISER ROOM D125
MECH. D126
PLATFORM D118
TRAINING ROOM E D117
ELEC. D127
CORRIDOR D110
TRAINING ROOM C D114
TRAINING ROOM D D116
T/C STORAGE D128
LOBBY D111
CORRIDOR D129
LOBBY D133
MEN'S RESTROOM D130
FAMILY RESTROOM D132
WOMEN'S RESTROOM D133
JAN. D131
Brace line 1

1 01 - RCP TRAINING CTR
SCALE: 1/8" = 1'-0"

C:\Users\brickards\Documents\AV_Region One Edinburg Education Service Center_2017_brickards.rvt
3/17/2019 11:35:45 PM

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number:	17.14
Drawing Date:	01/11/19
Drawn:	WJHW
Checked:	R. GARZA

Revisions:

No.	Description	Date
1	Addendum #4	03/18/19

Sheet Title:
REFLECTED CEILING PLAN - TRAINING FACILITY

AV-110

1 **01 - RCP TRAINING CTR W/ ALTERNATE #1**
SCALE: 1/8" = 1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number:	17.14
Drawing Date:	01/11/19
Drawn:	WJHW
Checked:	R. GARZA

Revisions:

No.	Description	Date
1	Addendum #4	03/18/19

Sheet Title:
REFLECTED CEILING PLAN - TRAINING FACILITY W/ ALTERNATE #1

AV-111

C:\Users\brickards\Documents\AV_Region One Edinburg Education Service Center_2017_brickards.rvt
3/17/2019 11:35:54 PM

KEYNOTES	
620	DMX CONTROLLED TRACK LIGHTING ASSEMBLY; (1) LOAD CIRCUIT EACH TO RELAY PANEL "RP"
621	DMX CONTROLLED TRACK LIGHTING ASSEMBLY; (2) LOAD CIRCUITS EACH TO RELAY PANEL "RP"

brace line 2

LIGHTING ZONE 1C

LIGHTING ZONE 1A

LIGHTING ZONE 3A

LIGHTING ZONE 5

LIGHTING ZONE 5A

LIGHTING ZONE 1B

LIGHTING ZONE 2B

LIGHTING ZONE 3B

LIGHTING ZONE 4B

LIGHTING ZONE 2A

LIGHTING ZONE 4A

LIGHTING ZONE 2C

LIGHTING ZONE 5A

LIGHTING ZONE 6

LIGHTING ZONE 7

Brace line 1

C203

C204

C202

C201

620

621

820

10' - 0"

22' - 0"

28' - 0"

CDP

RP

1 TL-302

2 TL-302

1 TL 01 - RCP TRAINING CTR

SCALE: 1/8" = 1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE
EDUCATION SERVICE CENTER - EDINBURG
ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH

TRUE NORTH

Project Number:	17.14
Drawing Date:	01/11/19
Drawn:	WJHW
Checked:	R. GARZA

Revisions:

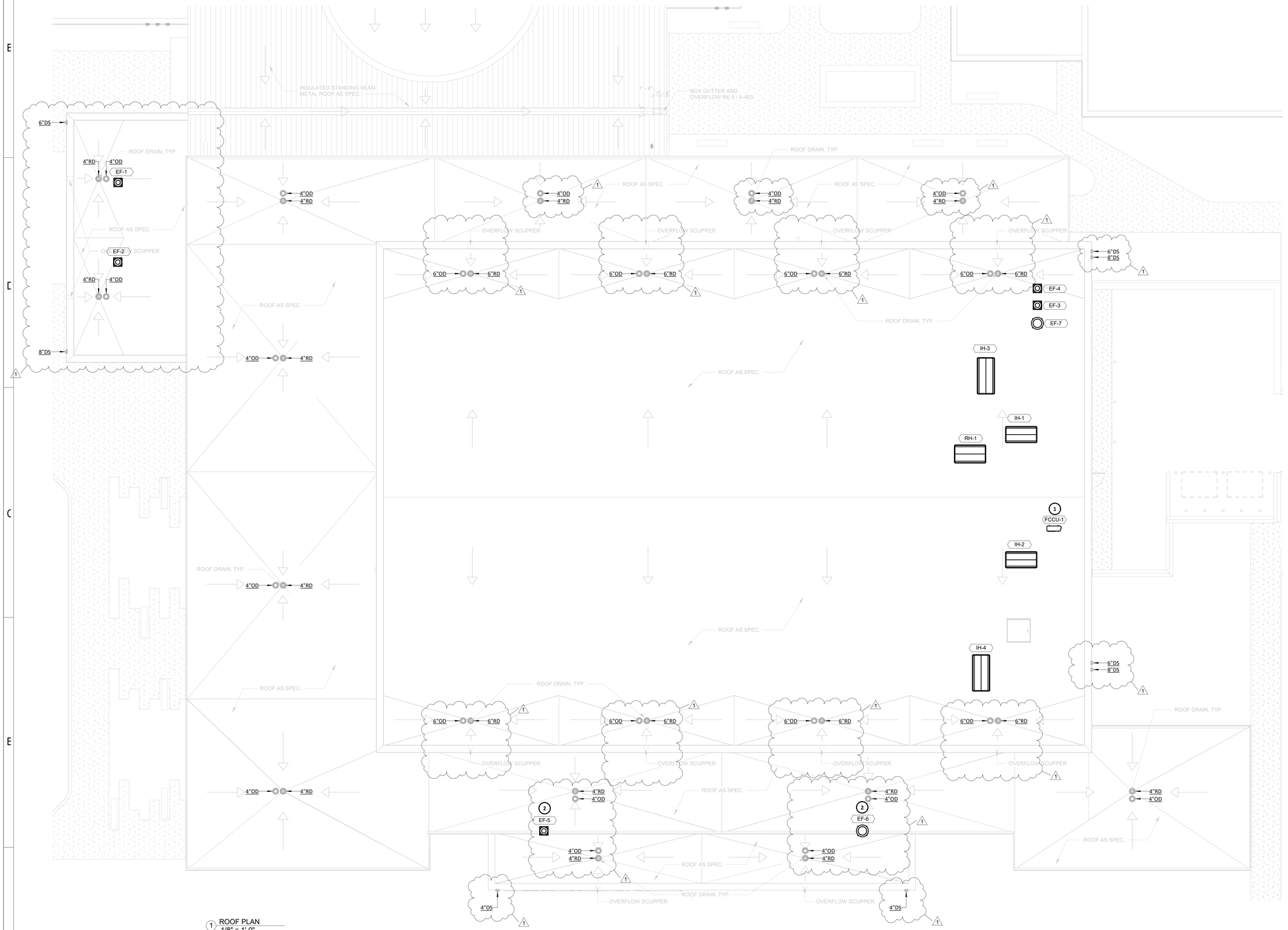
No.	Description	Date
1	Addendum #4	03/18/19

Sheet Title:

REFLECTED CEILING PLAN - TRAINING FACILITY

TL-110

C:\Data\Revit\AV_Region One Edinburg Education Service Center_2017_fschwentker.rvt
3/18/2019 08:56:52



1 ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

B. DELEGATED DESIGN: PROVIDE DELEGATED DESIGN SUBMITTAL FOR ALL MATERIAL AND EQUIPMENT ATTACHMENTS ON THE ROOF, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED BELOW:
- BUILDING CLASSIFICATION: GROUP B
- RISK CATEGORY: III.
- EXPOSURE CATEGORY: B.
- ULTIMATE DESIGN WIND SPEED (3-SECOND GUST): 140 MPH

C. INSTALL CHEMCHURB SYSTEM PENETRATION SEALS WHERE CONDENSATE PIPING, REFERIGERANT PIPING, AND DOMESTICE WATER PIPING PENETRATE ROOF.

KEY NOTES: (#)

1. SIZE REFRIGERANT LINES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PROVIDE 1/2" FLEXIBLE ELASTOMERIC INSULATION ON BOTH SUCTION AND DISCHARGE LINES. INSTALL ALUMINUM JACKET ON OUTDOOR PIPES. PROVIDE A SINGLE WEATHER TIGHT CHEM CURB AT ROOF PENETRATION FOR REFRIGERANT LINES, ELECTRICAL, AND CONTROLS CONDUIT.
2. EXHAUST FAN ON LOWER ROOF BEYOND

REVISIONS: (1)

1. 19.03.18- ADDENDUM #4. ROOF DRAIN PIPING ROUTING HAS BEEN MODIFIED. ROOF DRAIN SIZES WERE CHANGED BASED ON NEW PIPING ROUTING.

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH / TRUE NORTH

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	CC
Checked:	GH

Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

Sheet Title:
MEP ROOF PLAN

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

MEP-101

C:\Users\SigmaHNe.KA\Desktop\REVIT\REGION ONE\Region One Edinburg\KA-Region One Edinburg.rvt
3/18/2019 5:26:45 PM

GENERAL

1. REFER TO SHEET MEP-100 FOR PLUMBING GENERAL NOTES.
2. ROOF DRAIN PIPING SHALL BE SLOPED AT 1/8" PER FOOT

KEY NOTES:

1. PROVIDE AND INSTALL 3/4" INSULATED COPPER CONDENSATE DRAIN LINE FOR FCU-1. ROUTE AND DRAIN CONDENSATE PIPING INDIRECTLY INTO FLOOR SINK SERVING ICE MACHINE IN ROOM FOOD PREP D123. PIPING SHALL BE CONCEALED FROM VIEW IN WALL AND ABOVE CEILING. PROVIDE PIPE HANGER SUPPORT 5'-0" ON CENTER.
2. EXISTING PRIMARY ROOF DRAINS SHALL BE RE-ROUTED TO BBE UNDER GROUND. AUXILIARY ROOF DRAINS SHALL TERMINATE ON WALL MOUNTED DOWNSPOUT. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
3. SAW CUT EXISTING CONCRETE SLAB FOR NEW PLUMBING ROUGH-INS. CORE DRILL WHERE POSSIBLE TO MINIMIZE SAW CUTTING. WHERE BEAM PENETRATIONS ARE REQUIRED FOR PROPER SLOPE AND CONNECTION TO EXISTING SEWER LINE, PIPES SHALL BE SLEEVED. COORDINATE ANY BEAM PENETRATION WITH STRUCTURAL ENGINEER.
4. PROVIDE FURR-OUT FOR VERTICAL STORM DRAIN PIPING. CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
5. CONNECT STORM DRAIN PIPING TO BOX GUTTER WITH FLEXIBLE COUPLING. REFER TO ARCHITECTURAL PLANS FOR BOX GUTTER DETAIL.

REVISIONS: 1

1. 19.03.18- ADDENDUM #4. ROOF DRAIN PIPING ROUTING HAS BEEN MODIFIED. ROOF DRAIN SIZES WERE CHANGED BASED ON NEW PIPING ROUTING.

BUILDING ADDITION SHALL BE PROTECTED WITH NEW WET FIRE SPRINKLER SYSTEM. FIRE SPRINKLER SYSTEMS SHALL BE DESIGNED BY A LICENSED FIRE SPRINKLER DESIGNER TO MEET NFPA 13 AND CITY OF EDINBURG FIRE MARSHALL

ROUTE DOMESTIC WATER PIPING IN GYP. BOARD "BOX OUT" ACROSS CORRIDOR

1 PLUMBING PLAN - TRAINING FACILITY
1/8" = 1'-0"

KEY PLAN

SIGMA HNI ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH / TRUE NORTH

09-18-2019

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	CC
Checked:	GH

Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

Sheet Title:
PLUMBING PLAN - TRAINING FACILITY

P-101

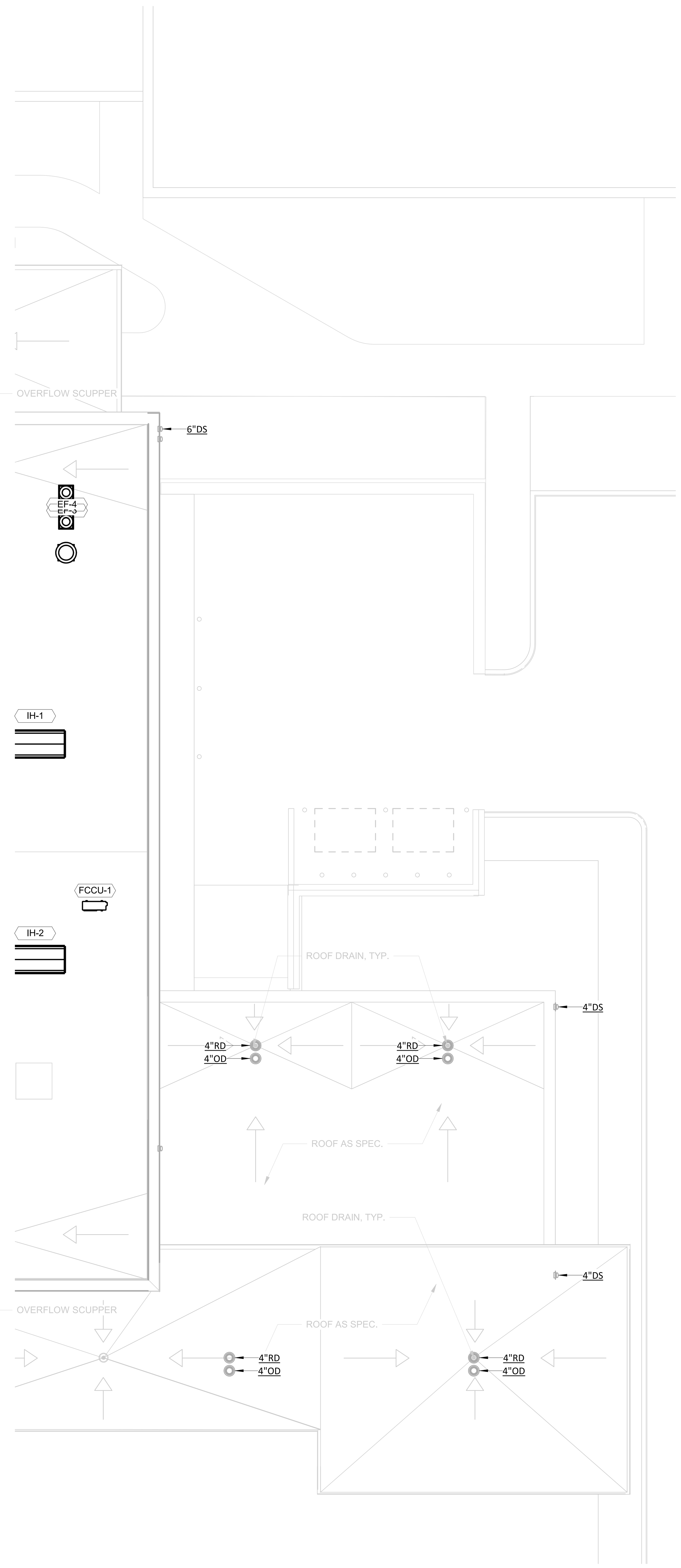
C:\Users\SigmaHNe_KA\Desktop\REVIT\REGION ONERegion One Edinburg\KA-Region One Edinburg.rvt
3/18/2019 5:27:56 PM

GENERAL

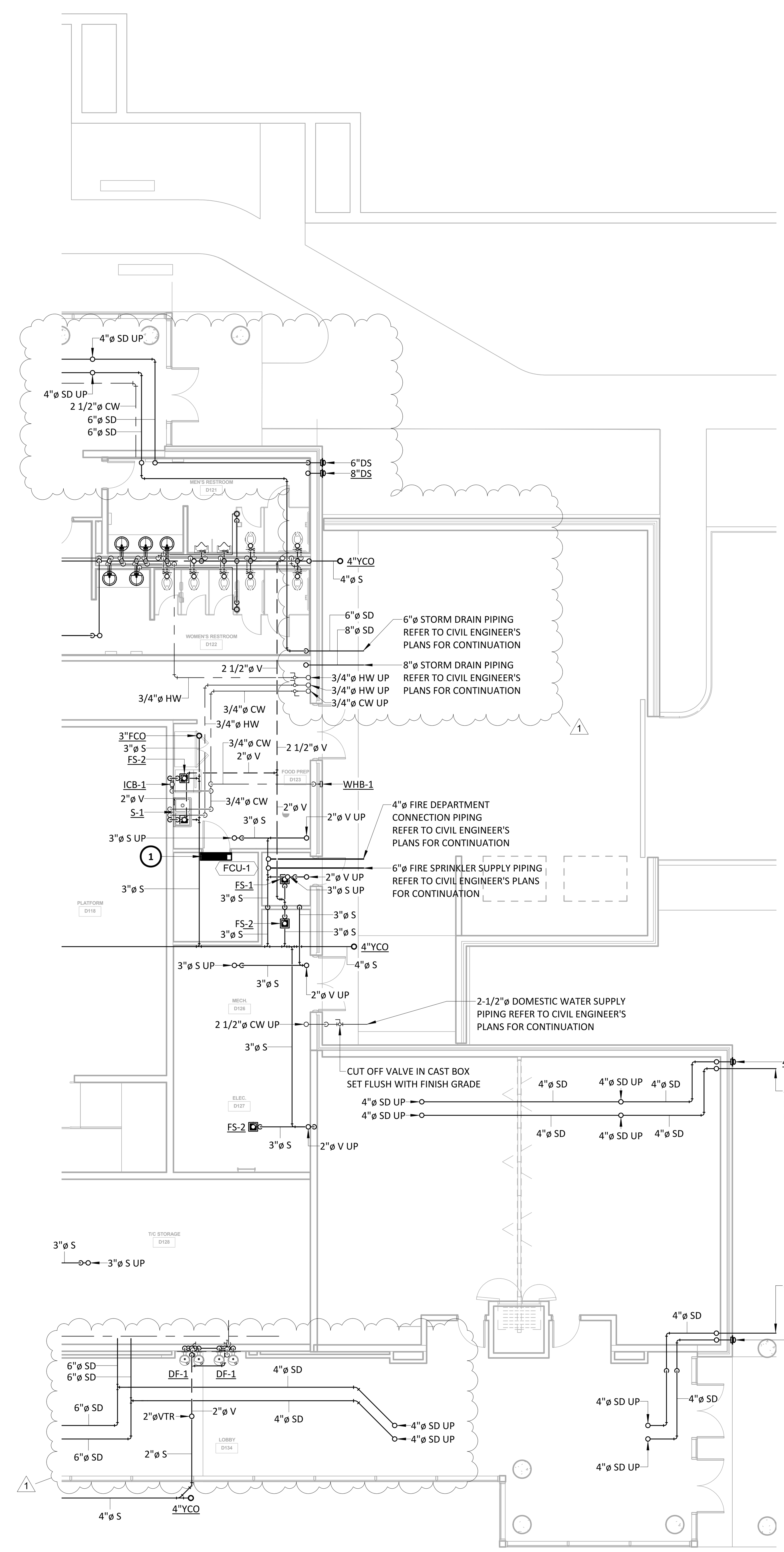
1. REFER TO SHEET MEP-100 FOR PLUMBING GENERAL NOTES.
2. ROOF DRAIN PIPING SHALL BE SLOPED AT 1/8" PER FOOT

REVISIONS: 1

1. 19.03.18- ADDENDUM #4. ROOF DRAIN PIPING ROUTING HAS BEEN MODIFIED. ROOF DRAIN SIZES WERE CHANGED BASED ON NEW PIPING ROUTING.



2 ROOF PLAN ALTERNATE #1
1/8" = 1'-0"



1 PLUMBING PLAN - TRAINING FACILITY W/ ALTERNATE #1
1/8" = 1'-0"

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR EDINBURG, TEXAS 78541

PLAN NORTH TRUE NORTH

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	CC
Checked:	GH

Revisions:

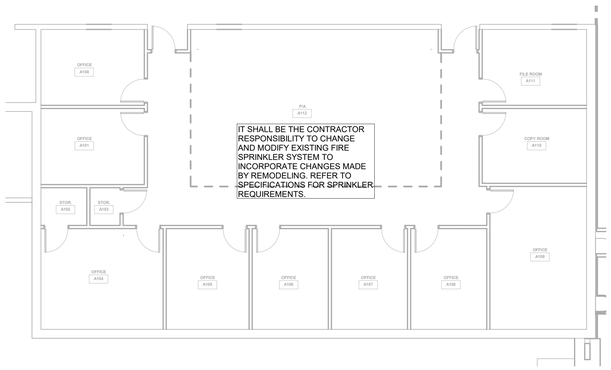
No.	Description	Date
1	Revision 1	12/12/2018

Sheet Title:

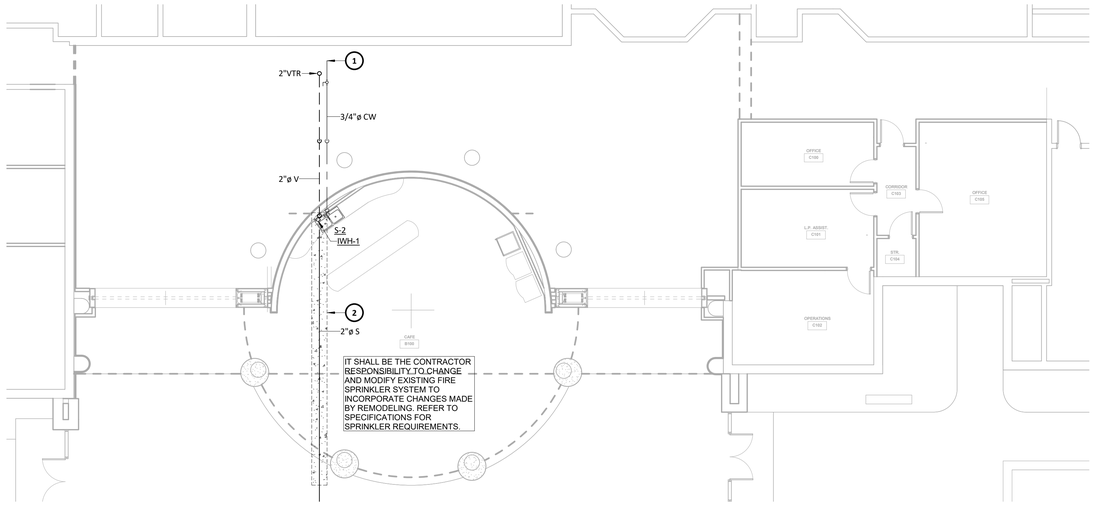
PLUMBING PLAN - TRAINING FACILITY W/ ALTERNATE #1

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

P-102



1 PLUMBING PLAN - ALTERNATE #4
1/8" = 1'-0"



2 PLUMBING PLAN - OFFICES AND CAFE
1/8" = 1'-0"

GENERAL

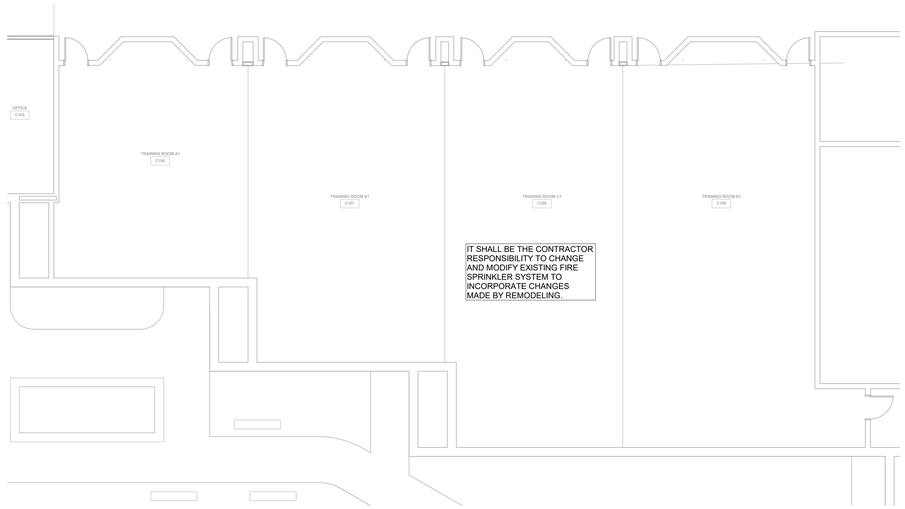
1. REFER TO SHEET MEP-100 FOR PLUMBING GENERAL NOTES.
2. ROOF DRAIN PIPING SHALL BE SLOPED AT 1/8" PER FOOT

KEY NOTES:

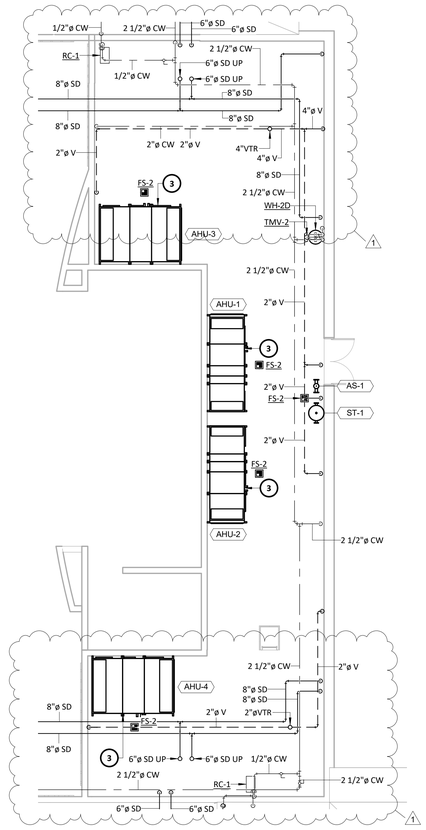
1. ROUTE AND CONNECT TO EXISTING DOMESTIC WATER LINE ABOVE CEILING. FIELD VERIFY EXACT POINT OF CONNECTION PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
2. SAW CUT EXISTING CONCRETE SLAB FOR NEW PLUMBING ROUGH-INS. CORE DRILL WHERE POSSIBLE TO MINIMIZE SAW CUTTING. WHERE BEAM PENETRATIONS ARE REQUIRED FOR PROPER SLOPE AND CONNECTION TO EXISTING SEWER LINE, PIPES SHALL BE SLEEVED. COORDINATE ANY BEAM PENETRATION WITH STRUCTURAL ENGINEER.
3. PROVIDE AND INSTALL FULL SIZE INSULATED COPPER CONDENSATE DRAIN LINE TO NEAREAST FLOOR SINK.

REVISIONS: 1

1. 19.03.18- ADDENDUM #4. ROOF DRAIN PIPING ROUTING HAS BEEN MODIFIED. ROOF DRAIN SIZES WERE CHANGED BASED ON NEW PIPING ROUTING.

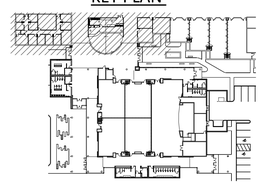


3 PLUMBING PLAN - ALTERNATE #2
1/8" = 1'-0"



4 PLUMBING PLAN - MEZANINE
1/8" = 1'-0"

KEY PLAN



SIGMA HNI
ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	CC
Checked:	GH

Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

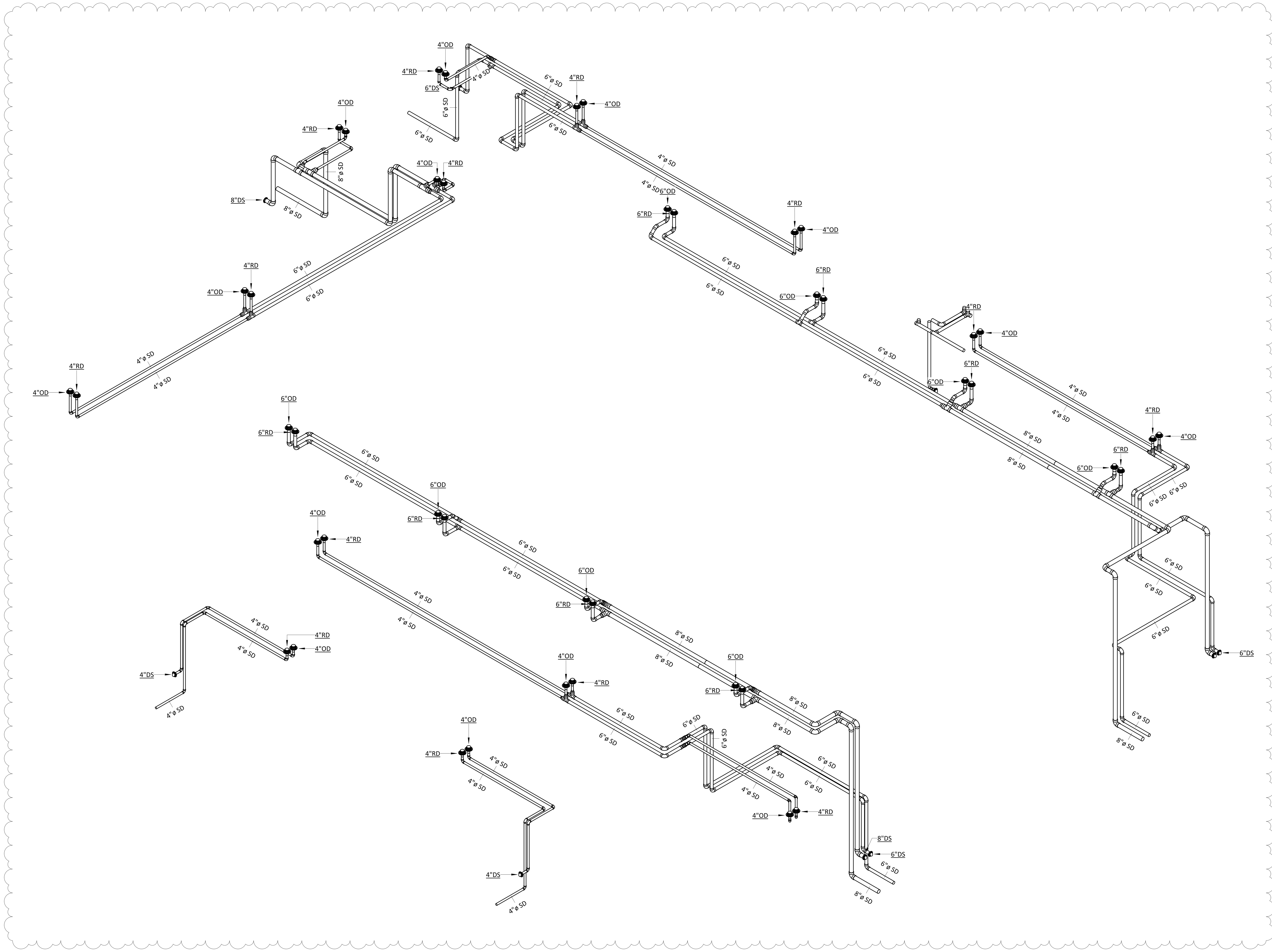
Sheet Title:

PLUMBING PLAN - OFFICES , CAFE, ALTERNATE AND MEZZANINE

P-103

REVISIONS:

1. 19.03.18- ADDENDUM #4. ROOF DRAIN PIPING ROUTING HAS BEEN MODIFIED. ROOF DRAIN SIZES WERE CHANGED BASED ON NEW PIPING ROUTING.



(1) PLUMBING STORM SEWER RISER
N.T.S.

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR EDINBURG, TEXAS 78541

PLAN NORTH TRUE NORTH

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	CC
Checked:	GH

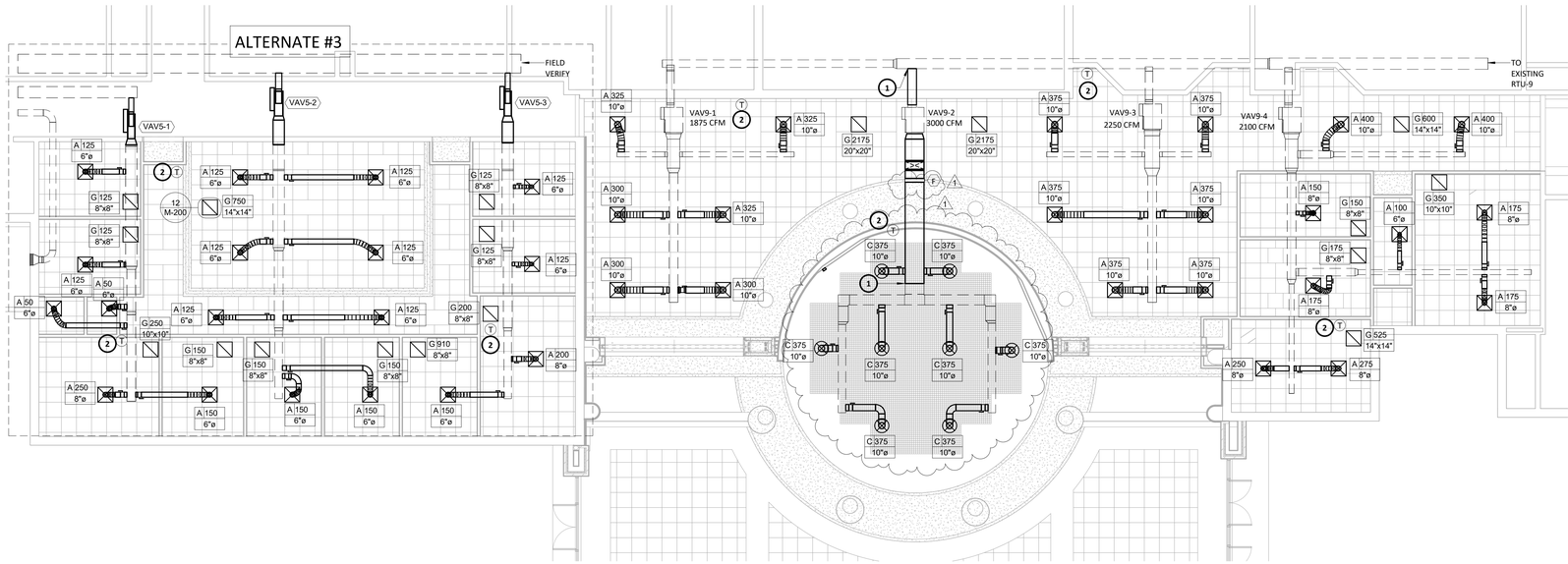
Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

Sheet Title:
PLUMBING RISERS

SIGMA HN
ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

P-303



1 MECHANICAL PLAN.
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP-100 FOR GENERAL NOTES.
B. EXISTING CONTROLS SYSTEM IS BY SCHNEIDER ELECTRIC. CONTRACTOR SHALL ENGAGE AND CONTRACT WITH SCHNEIDER ELECTRIC FOR ALL HVAC CONTROLS WORK. SCHNEIDER ELECTRIC SHALL RECOMMISSION AND REPROGRAM EXISTING TERMINAL UNITS THAT ARE IN THIS SCOPE OF WORK. COORDINATE WITH TAB CONTRACTOR TO ENSURE TERMINAL UNITS ARE FULLY FUNCTIONAL.
C. TAB CONTRACTOR SHALL WORK WITH SCHNEIDER ELECTRIC TO RECOMMISION EXISTING FAN POWERED TERMINAL UNITS AND ENSURE THAT THEY ARE FULLY FUNCTIONAL.
D. CONTRACTOR SHALL INSTALL NEW FLEXIBLE DUCT FOR EACH SUPPLY DIFFUSER.
E. CONTRACTOR SHALL INSTALL NEW BRANCH DUCT FOR EACH SUPPLY DIFFUSER AS INDICATED. EXISTING MANUAL BALANCING DAMPERS SHALL BE REPLACED AS NEEDED FOR SUCCESSFUL TESTING, ADJUSTING, AND BALANCING.
F. REUSE EXISTING FAN POWERED TERMINAL UNITS. TERMINAL UNITS SHALL BE TESTED, ADJUSTED, AND BALANCED TO THE AIRFLOW VALUES INDICATED. TERMINAL UNIT SHALL BE RECOMMISSIONED TO BE FULLY FUNCTIONAL.

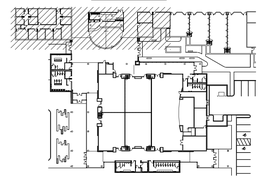
KEY NOTES: (#)

1. RECONNECT NEW DUCT TO EXISTING MAIN TRUNK DUCT.
2. NEW SAPACE TEMPERATURE SENSOR.
3. NEW VAV SINGLE DUCT TERMINAL UNIT WITH ELECTRIC REHEAT. CONNECT TO EXISTING DUCT AND SUSPEND FROM STRUCTURE. ENSURE THERE IS ACCESS TO CONTROL PANEL.

REVISIONS: (1)

1. 19.03.18- ADDENDUM #4.
- REPLACEMENT OF LAY IN SUPPLY DIFFUSERS WITH NEW ROUND DIFFUSER SUSPENDENT ABOVE CEILING.
- ADDED 3 HOUER RATED FIRE DAMPER EQUAL TO RUSKIN DIBD23 AND ACCESS DOOR EQUAL TO RUSKIN ADH22F FOR RECTANGULAR DUCT.

KEY PLAN



LEGEND

- EXISTING TO REMAIN
- TO BE DEMOLISH
- NEW

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number: 18017
Drawing Date: 03/18/19
Drawn: Author
Checked: Checker

Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

Sheet Title:
MECHANICAL PLAN

M-100

C:\Users\SigmaHN_CC\Desktop\REVIT PROJECTS\Region One Edinburg_CENTRAL.rvt
3/18/2019 10:51:01 AM

DUAL COIL - DUAL PATH AIR HANDLING UNIT SCHEDULE

Unit						Supply Fan											Chilled Water Coil																Mixing Box			
						Fan								Motor																							
Tag	Manuf.	Model	STYLE	LxWxH (in)	Weight (lb)	Size Type	Class	DRIVE	Design Airflow (CFM)	Min. Airflow (CFM)	RPM	BHP	E.S.P. (inH2O)	T.S.P. (inH2O)	Voltage	Power (HP)	RPM	Control	AIR PATH	AIRFLOW (CFM)	Total Capacity (MBH)	Sensible Capacity (MBH)	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	F.V. (ft/min)	A.P.D. (inH2O)	EWT °F	LWT °F	Flow Rate (GPM)	W.P.D. (ftH2O)	Max Rows	Max FPI	CONTROL VALVE	Filter	Type	Depth (in)	A.P.D. (inH2O)
AHU-1	DAIKIN	CAH009	INDOOR	154x54x82	2946	PLENUM	II	DIRECT	6700	2400	2435	5.55	1.50	3.16	460/60/3	7.5	1800	VFD	RETURN	4300	169	109	78	67	54.8	54.3	<500	0.70	44	56	28.1	<10	6	10	3-WAY CCV	ANGLED	Pleated MERV 8	2	0.5
																			OUTSIDE	2400	227	94	90	80	54.1	53.9	<400	0.75	44	56	38.0	<10	6	11	3-WAY CCV	ANGLED	Pleated MERV 8	2	0.5
AHU-2	DAIKIN	CAH009	INDOOR	154x54x82	2946	PLENUM	II	DIRECT	6700	2400	2435	5.55	1.50	3.16	460/60/3	7.5	1800	VFD	RETURN	4300	169	109	78	67	54.8	54.3	<500	0.70	44	56	28.1	<10	6	10	3-WAY CCV	ANGLED	Pleated MERV 8	2	0.5
																			OUTSIDE	2400	227	94	90	80	54.1	53.9	<400	0.75	44	56	38.0	<10	6	11	3-WAY CCV	ANGLED	Pleated MERV 8	2	0.5

NOTES:
1. DOUBLE WALL CONSTRUCTION WITH INJECTED FOAM MINIMUM R-13 INSULATION.
2. INTEGRAL MOTORIZED OUTSIDE AIR & RETURN AIR DAMPERS (ACTUATORS BY CONTROLS CONTRACTOR).
3. PREMIUM EFFICIENCY TEFC MOTORS WITH MOTOR SHAFT GROUNDING KITS.
4. VARIABLE FREQUENCY DRIVE WITH DISCONNECT BY MECHANICAL CONTRACTOR.
5. DIRECT DRIVE PLENUM FAN.
6. PROVIDE SHIPPING SPLITS.
7. PROVIDE 6" BASE RAIL.

SOUND POWER DATA

MARK	PATH	FREQUENCY							
		63	125	250	500	1000	2000	4000	8000
AHU-1 & AHU-2	SUPPLY:	84	77	80	90	88	83	83	75
	RETURN:	75	70	73	83	68	67	64	54
	CASING:	74	68	66	72	66	55	46	51

AIR HANDLING UNIT SCHEDULE

UNIT						FAN								MOTOR					CHILLED WATER COIL														FILTER MIXING BOX			
Tag	Manuf.	Model	STYLE	LxWxH (in)	Weight (lb)	Design Airflow (CFM)	Minimum Airflow (CFM)	Out Air Max (CFM)	Out Air Min (CFM)	E.S.P. (in H2O)	Drive	Type	Class	RPM	T.S.P. (inH2O)	BRAKE HP (HP)	Power (HP)	RPM	Voltage	Control	Total Capacity (MBH)	Sensible Capacity (MBH)	EAT-DB °F	EAT-WB °F	LAT-DB °F	LAT-WB °F	F.V. (ft/min)	A.P.D. (inH2O)	EWT °F	LWT °F	Flow Rate (GPM)	W.P.D. (ftH2O)	Maximum Rows	Maximum FPI	Control Valve	Filter	Type	Depth	A.P.D. (inH2O)
AHU-3	DAIKIN	CAH	INDOOR	128x86x66	3115	11,200	3,700	1800	1800	2.0	DIRECT	AIRFOIL	2	1750	3.37	10.39	15	1800	460/3/60	VFD	379.8	298.6	79.0	65.0	54.6	53.7	<500	0.58	44	56	62.8	<10	6	10	3-WAY CCV	ANGLED	MERV 8	2"	0.5
AHU-4	DAIKIN	CAH	INDOOR	128x86x66	3115	11,200	3,700	1800	1800	2.0	DIRECT	AIRFOIL	2	1750	3.37	10.39	15	1800	460/3/60	VFD	379.8	298.6	79.0	65.0	54.6	53.7	<500	0.58	44	56	62.8	<10	6	10	3-WAY CCV	ANGLED	MERV 8	2"	0.5
AHU-5 (Alt #1)	DAIKIN	CAH	INDOOR	108x42x40	1151	2,000	1,000	530	100	2.0	DIRECT	AIRFOIL	2	1750	3.52	1.73	2	1800	460/3/60	VFD	78.4	60.7	81.7	66.5	53.9	53.6	<500	0.86	44	56	12.9	<10	6	10	3-WAY CCV	ANGLED	MERV 8	2"	0.5

NOTES:
1. DOUBLE WALL CONSTRUCTION WITH INJECTED FOAM MINIMUM R-13 INSULATION.
2. INTEGRAL MOTORIZED OUTSIDE AIR & RETURN AIR DAMPERS (ACTUATORS BY CONTROLS CONTRACTOR).
3. PREMIUM EFFICIENCY TEFC MOTORS WITH MOTOR SHAFT GROUNDING KITS.
4. VARIABLE FREQUENCY DRIVE WITH DISCONNECT BY MECHANICAL CONTRACTOR.
5. DIRECT DRIVE PLENUM FAN.
6. SHIPPING SPLITS.

SOUND POWER DATA

MARK	PATH	FREQUENCY							
		63	125	250	500	1000	2000	4000	8000
AHU-3 & AHU-4	SUPPLY:	89	81	92	89	92	89	89	80
	RETURN:	79	76	86	78	73	73	69	58
	CASING:	79	74	79	68	70	61	51	51

SOUND POWER DATA

MARK	PATH	FREQUENCY							
		63	125	250	500	1000	2000	4000	8000
AHU-5	SUPPLY:	71	69	71	82	74	73	77	70
	RETURN:	65	59	59	75	57	59	62	52
	CASING:	64	59	53	64	52	45	46	51

MECHANICAL GENERAL LEGEND DUCTWORK SYMBOLS

DESCRIPTION	SINGLE LINE	DOUBLE LINE
ACCESS DOOR	AD	AD
BACKDRAFT DAMPER	BDD	BDD
FIRE DAMPER	F	F
FLEXIBLE CONNECTION	FC	FC
MOTORIZED DAMPER	M	M
CONTROL DAMPER	CD M	CD M
VOLUME DAMPER, MANUAL	VD	VD
DUCT ELBOW WITH TURNING VANES		
DUCT SECTION - SUPPLY AIR		
DUCT SECTION - EXHAUST AIR		
DUCT SECTION - RETURN, OUTSIDE, OR RELIEF AIR		
DUCT, INCLINED DROP		
DUCT, INCLINED RISE		
FLEXIBLE DUCT - ROUND		
DUCT TRANSITION	14/10 10/10	14/10 10/10
DUCT TRANSITION (SQUARE OR RECTANGULAR TO ROUND)	10/10 8"Ø	12/12 8"Ø
RECTANGULAR DUCT, SIZE IN INCHES, FIRST DIMENSION IS SIDE SHOWN (NET CLEAR INSIDE DIMENSION)	10/14	10/14

DESCRIPTION	SINGLE LINE	DOUBLE LINE
ROUND DUCT, DIAMETER IN INCHES (NET CLEAR INSIDE DIMENSION)	8"Ø	8"Ø
AIR FLOW IN DIRECTION OF ARROW		
45° BRANCH TAKE-OFFS		
CONICAL LATERAL BRANCH TAKE-OFFS		
CEILING SUPPLY DIFFUSERS		
DIRECTION SUPPLY GRILLE, HATCH INDICATES BLOCKED QUADRANT		
CEILING RETURN GRILLE/REGISTER		
CEILING EXHAUST FAN (EF-_)		EF-_
CEILING EXHAUST GRILLE/REGISTER		
SIDEWALL SUPPLY GRILLE/REGISTER		
SIDEWALL RETURN/EXHAUST GRILLE/REGISTER		
EXTRACTOR		
DUCT TEE WITH SPLITTER DAMPER		
DOOR UNDERCUT	UC	UC
DOOR LOUVER	L	L

MISCELLANEOUS SYMBOLS

P	DUCT STATIC PRESSURE SENSOR
SD	DUCT SMOKE DETECTOR
CO_2	CARBON DIOXIDE SENSOR
	NEW CONNECTION TO EXISTING
H	HUMIDISTAT
RH	RELATIVE HUMIDITY SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR (MOUNT 48" AFF)
T	DUCT TEMPERATURE SENSOR
TC	TIME CLOCK
F	FREEZESTAT

DIFFUSER, GRILLE OR REGISTER MARK
A 250 — AIR FLOW (CFM)
12"Ø — NECK SIZE/ RECTANGULAR FACE SIZE / NOTES
6 TYP. — QUANTITY / NOTES (WHERE APPLICABLE)
1@300 — QUANTITY OF EXISTING DIFFUSERS
300 — AIR FLOW (CFM) PER DIFFUSER / TOTAL AIR FLOW (CFM)
AHU 1 — EQUIPMENT MARK / EQUIPMENT NUMBER
DIRECTION OF SECTION
01 / M2.01 — IDENTIFYING NUMBER OR LETTER FOR SECTIONS. / NUMBER OF REFERENCE DRAWING WHERE SECTION IS SHOWN.
01 / M2.01 — IDENTIFYING NUMBER OR LETTER FOR DETAILS. / NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.
ENLARGED DETAIL REFERENCE
MATCHLINE
LINE WITH HATCHING DESIGNATES DEMOLITION WORK

NEW SINGLE DUCT TERMINAL UNIT SCHEDULE

MARK	SERVES	MFGR	MODEL	BOX SIZE		COOLING CFM		INLET S.P.	MAX NC LEVELS		ELECTRIC HEAT COIL				NOTES	BID PACKAGE
				INLET	OUTLET	MAX.	MIN.	IN W.G.	RAD.	DISCH.	CFM	KW	VOLT/PH	STEPS		
VAV-1	AHU-1	TITUS	DESV	14" Ø	20 X 18	1850	740	0.5	25	20	925	9.5	480/3	3	ALL	BASE BID
VAV-2	AHU-1	TITUS	DESV	14" Ø	20 X 18	1875	750	0.5	25	20	940	9.5	480/3	3	ALL	BASE BID
VAV-3	AHU-1	TITUS	DESV	14" Ø	20 X 18	2200	880	0.5	25	20	1100	11.0	480/3	3	ALL	BASE BID
VAV-4	AHU-1	TITUS	DESV	10" Ø	14 X 12	775	310	0.5	32	18	390	4.0	480/3	2	ALL	BASE BID
VAV-5	AHU-2	TITUS	DESV	14" Ø	20 X 18	1900	760	0.5	25	20	950	9.5	480/3	3	ALL	BASE BID
VAV-6	AHU-2	TITUS	DESV	14" Ø	20 X 18	1900	760	0.5	25	20	950	9.5	480/3	3	ALL	BASE BID
VAV-7	AHU-2	TITUS	DESV	14" Ø	20 X 18	2300	920	0.5	25	20	1150	11.5	480/3	3	ALL	BASE BID
VAV-8	AHU-2	TITUS	DESV	8" Ø	12 X 10	600	240	0.5	24	14	300	3.0	480/3	1	ALL	BASE BID
VAV-9	AHU-5	TITUS	DESV	10" Ø	14 X 12	900	360	0.5	32	18	450	4.5	480/3	2	ALL	ALT #1
VAV-10	AHU-5	TITUS	DESV	10" Ø	14 X 12	1100	440	0.5	32	18	550	5.5	480/3	2	ALL	ALT #1
VAV5-1	OFFICES	TITUS	DESV	8" Ø	12 X 10	750	300	0.5	24	14	375	4.0	480/3	1	ALL	ALT #3
VAV5-2	OFFICES	TITUS	DESV	10" Ø	14 X 12	1050	420	0.5	32	18	525	5.5	480/3	2	ALL	ALT #3
VAV5-3	OFFICES	TITUS	DESV	8" Ø	12 X 10	600	240	0.5	24	14	300	4.0	480/3	1	ALL	ALT #3

NOTES:
1. GENERAL AND SUBCONTRACTORS SHALL VERIFY ALL SPACE REQUIRMENTS PRIOR TO INSTALLATION AND DUCT FABRICATION.
2. UNIT CONTROLLERS SHALL BE SUPPLIED BY CONTROLS CONTRACTOR AND FACTORY MOUNTED BY BOX MANUFACTURER.
3. BOX MANUFACTURER SHALL PROVIDE DDC CONTROLS TRANSFORMER.
4. VERIFY CONTROL BOX LOCATION (RIGHTHAND/LEFTHAND) FROM PLANS.
5. PROVIDE UNIT WITH MOUNTING BRACKETS.
6. ELECTRICAL CONNECTION SHALL BE A 4-WIRE WYE.
7. PROVIDE UNIT WITH INTEGRAL FUSED DISCONNECT.

GRILLE/DIFFUSER/REGISTER SCHEDULE

MARK	SERVICE	DESCRIPTION	MANUFACTURER MODEL NO.	MAX. NC. LEVEL (1)	REMARKS
A	SUPPLY	24"X24" MODULE SIZE, ALUMINUM, PLAQUE, LAY IN DIFFUSER WITH 4 WAY THROW (UNLESS NOTED OTHERWISE), ROUND NECK.	TITUS OMNI-AA	30	WHITE FINISH
B	SUPPLY	12"X12" MODULE SIZE, ALUMINUM, PLAQUE, SURFACE-MOUNTED DIFFUSER WITH 4-WAY THROW, ROUND NECK.	TITUS OMNI-AA	30	WHITE FINISH
C	SUPPLY	ROUND CEILING DIFFUSER, DUCT MOUNTED, UNIFORM 360° DISCHARGE PATTERN, ALUMINUM CONSTRUCTION.	TITUS R-OMNI	30	WHITE FINISH
D	SUPPLY	SURFACE MOUNTED SUPPLY DIFFUSER WITH 3/4" SPACING, ALUMINUM CONSTRUCTION, DOUBLE DEFLECTION WITH OPPOSED BLADE DAMPER.	TITUS 300FL	30	WHITE FINISH
E	SUPPLY	ALUMINUM DRUM LOUVER WITH INDIVIDUALLY ADJUSTABLE BLADES, MINIMUM 50° ANGLE OF ROTATION, OPPOSED BLADE DAMPER.	TITUS DL	35	FINISH
G	RETURN	24"X24" EGGCRATE FACE, CEILING RETURN GRILL WITH BORDER FOR LAY-IN CEILING, ALUMINUM CONSTRUCTION.	TITUS 50F	30	WHITE FINISH
F	SUPPLY	24"X24" PERFORATED FACE, CEILING SUPPLY GRILL WITH BORDER FOR LAY-IN CEILING. ALUMINUM CONSTRUCTION.	TITUS PAR-AA	35	WHITE FINISH
I	RETURN	12"X12" EGGCRATE FACE, CEILING RETURN GRILLE, SURFACE MOUNTED, ALUMINUM CONSTRUCTION.	TITUS 50F	30	WHITE FINISH
J	RETURN	SURFACE MOUNTED RETURN GRILLE WITH 3/4" SPACING. ALUMINUM CONSTRUCTION, 35° DEFLECTION.	TITUS 350FL	30	WHITE FINISH

(F) =THIS WILL DESIFNATE A STEEL FIRE RATED AIR DEVICE TYPE.

CBA = COLOR BY ARCHITECT

* = SEE ARCHITECTURAL DRAWINGS PROPER BORDER TYPES

AIR OUTLET DESIGNATION ON PLANS
MARK — A 250 — AIR FLOW (CFM
12"Ø — NECK SIZE / RECTANGULAR FACE SIZE / NOTES
6 TYP. — QUANTITY / NOTES (WHERE APPLICABLE)

NOTE: COORDINATE ALL AIR DEVICE TYPE WITH ARCHITECTURAL RCP.

FLOW BAR DIFFUSER SCHEDULE

MARK	CFM	LENGTH (FT)	SLOT WIDTH (IN)	NUMBER OF SLOTS	INLET (IN)	NUMBER OF INLETS	NC	MANUF.	MODEL
T	SEE PLANS	4	1"	1	6	1	<20	TITUS	FL-10-HT

NOTES:
1. PROVIDE FACTORY INSULATED PLENUM EQUAL TO TITUS MODEL FPBI.
2. PROVIDE FLEXIBLE DUCT CONNECTIONS TO PLENUM BOX.
3. PROVIDE WITH ECXX ENDCAPS.
4. PROVIDE BORDER TYPE APPLICABLE FOR EACH CEILING APPLICATION.
5. PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR EACH CEILING APPLICATION.
6. COORDINATE FINISH AND COLOR WITH ARCHITECT.

EXHAUST FAN SCHEDULE

MARK	CFM	SERVICE	LOCATION	TYPE	RPM	EXT SP (IN WG)	HP	DRIVE	VOLTAGE	MAX. SONES	CONTROL	MANUFACTURER	MODEL	NOTES
EF-1	600	MENS, JAN, FAMILY	ROOF	CENT DB	1496	0.5	0.099	DIRECT	120/1	8.4	DDC	COOK	101C15D	ALL
EF-2	600	WOMENS	ROOF	CENT DB	1496	0.5	.099	DIRECT	120/1	8.4	DDC	COOK	101C15D	ALL
EF-3	300	MENS	ROOF	CENT DB	1427	0.5	83.7 WATTS	DIRECT	120/1	6.8	DDC	COOK	90C15DH	ALL
EF-4	375	WOMEN'S	ROOF	CENT DB	1503	0.5	90.4 WATTS	DIRECT	120/1	7.6	DDC	COOK	90C15DH	ALL
EF-5	600	MENS, JAN, FAMILY	ROOF	CENT DB	1496	0.5	.099	DIRECT	120/1	8.4	DDC	COOK	101C15D	ALL
EF-6	750	WOMENS	ROOF	CENT DB	1119	0.5	.098	DIRECT	120/1	6.2	DDC	COOK	120C15D	ALL
EF-7	800	FOOD PREP.	ROOF	CENT DB	1139	0.5	.105	DIRECT	120/1	6.5	SWITCH	COOK	120C15D	ALL

NOTES:
1. INTEGRAL DISCONNECT SWITCH FROM FACTORY.
2. BACK DRAFT DAMPER.
3. FACTORY MOUNTED FAN SPEED CONTROL.
4. 14" GALVANIZED ROOF CURB WITH DAMPER TRAY.
5. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING A CURB WHICH IS COMPLIANT WITH THE APPLICABLE IBC, ASCE, AND TEXAS DEPARTMENT OF INSURANCE

REVISIONS:

1. 19.03.18 - ADDENDUM #4. REVISION TO MODEL NUMBER FOR ROUND SUPPLY DIFFUSER TYPE "C".

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number: 18017
Drawing Date: 03/18/19
Drawn: CC
Checked: GH

Revisions:

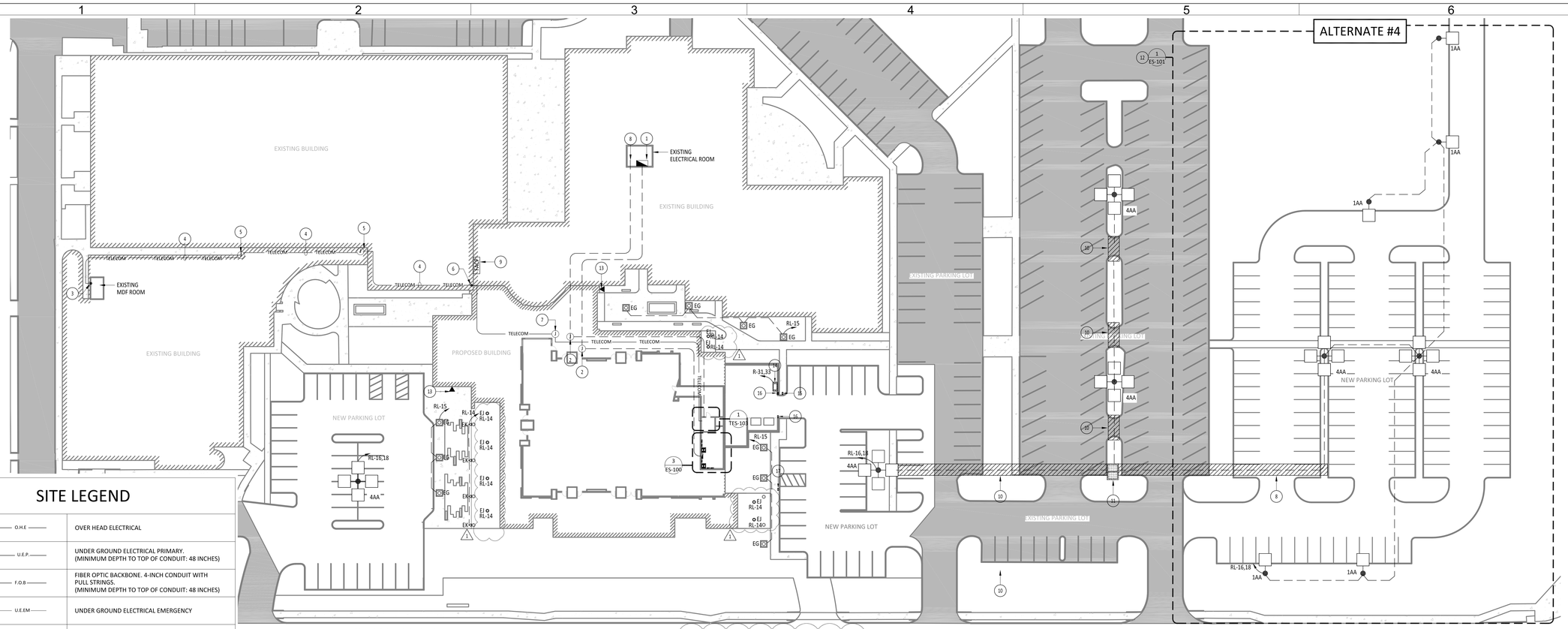
No.	Description	Date

Sheet Title:
MECHANICAL SCHEDULES

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

M-300

C:\Users\SigmaHN_CC\Desktop\REVIT PROJECTS\Region One Edinburg_CENTRAL.rvt
3/18/2019 10:51:03 AM



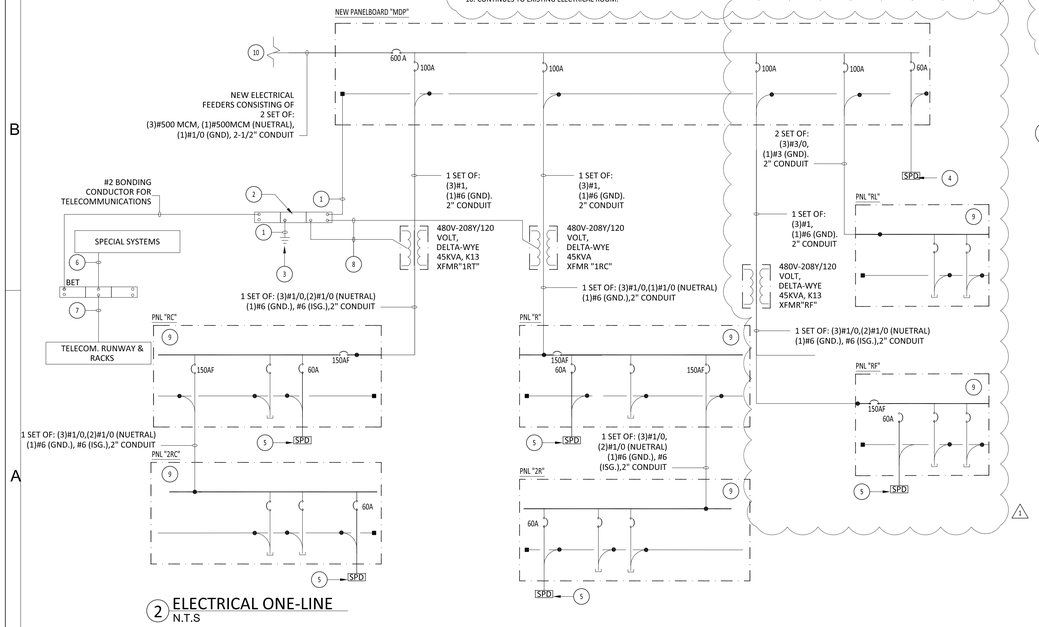
SITE LEGEND

O.H.E O.H.E	OVER HEAD ELECTRICAL
U.E.P. U.E.P.	UNDER GROUND ELECTRICAL PRIMARY. (MINIMUM DEPTH TO TOP OF CONDUIT: 48 INCHES)
F.O.B F.O.B	FIBER OPTIC BACKBONE. 4-INCH CONDUIT WITH PULL STRINGS. (MINIMUM DEPTH TO TOP OF CONDUIT: 48 INCHES)
U.E.EM U.E.EM	UNDER GROUND ELECTRICAL EMERGENCY
TELECOM	TELECOMMUNICATIONS. 4-INCH CONDUIT FOR FIBER CABLING
U.E.S. U.E.S.	UNDERGROUND ELECTRICAL SECONDARY SERVICE. (MINIMUM DEPTH TO TOP OF CONDUIT: 36")
	SITE: POWER OR LIGHTING BRANCH CIRCUIT (MINIMUM DEPTH TO TOP OF CONDUIT: 36")
	ELECTRICAL RISER POLE
	UTILITY POWER PAD MOUNTED TRANSFORMER
	TELECOMMUNICATION/ELECTRICAL PULLBOX
	SITE LIGHTING LIGHT FIXTURES

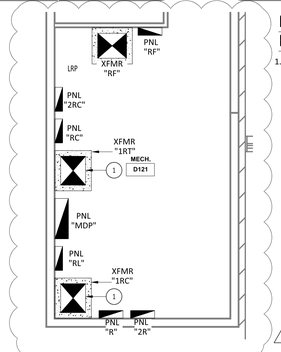
1 ELECTRICAL SITE PLAN
1/32"=1'-0"

ELECTRICAL RISER KEY NOTES: (8)

1. FURNISH AND INSTALL #1/0 ELECTRODE CONDUCTOR TO BUILDING'S ELECTRICAL SERVICE. TEST TO EQUAL TO OR LESS THAN 0.1 OHMS.
2. NEMA RATED TMGB 1/4" x 4" x 20" WITH STAND OFF INSULATORS, BOND GROUND CONDUCTORS TO TMGB WITH TWO HOLE/TWO SCREW LUG, OR EXOTHERMIC WELD. MOUNT GROUNDING BUS BAR ADJACENT TO MAIN ELECTRICAL PANEL.
3. FURNISH AND INSTALL LYNCOLE K2-10CS XIT ELECTRODE. REFER TO LYNCOLE XIT GROUNDING SYSTEM DETAIL FOR XIT ELECTRODE REQUIREMENTS.
4. FURNISH AND INSTALL NEW SURGE PROTECTION DEVICE EQUAL TO CURRENT TECHNOLOGY # TG3-125-480-3Y-PNB-M4E-F2-HPI.
5. FURNISH AND INSTALL NEW SURGE PROTECTION DEVICE EQUAL TO CURRENT TECHNOLOGY # TG3-50-208-3Y-PNB-M4E-F2-HPI.
6. FURNISH AND INSTALL INTER-SYSTEMS BONDING CONDUCTOR FOR SPECIAL SYSTEM PANELS AND EQUIPMENT RACKS/CABINETS (ie. CAMERA SURVEILLANCE, ACCESS CONTROL, INTRUSION DETECTION, ETC.)
7. BONDING COPPER CONDUCTOR (SIZE #6 AWG) FROM BUSBAR TO EACH ROW OF EQUIPMENT RACKS, ALONG ENTIRE LENGHT OF ROW, BOND EACH RACK TO BONDING CONDUCTOR WITH A #6 AWG STRANDED BONDING COPPER CONDUCTOR. (TYP.)
8. TRANSFORMER ELECTRODE CONDUCTOR (SIZE # 6AWG).
9. REFER TO PANEL SCHEDULES FOR OTHER PANEL REQUIREMENTS.
10. CONTINUES TO EXISTING ELECTRICAL ROOM.



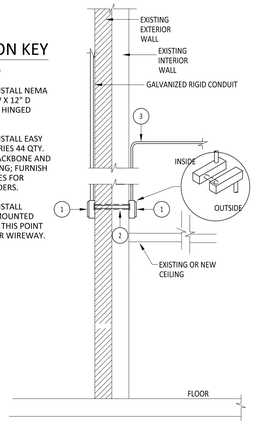
2 ELECTRICAL ONE-LINE
N.T.S



3 MECHANICAL ROOM ENLARGEMENT
3/16"=1'-0"

WALL PENTRATION KEY NOTES: (8)

1. FURNISH AND INSTALL NEMA 3R 12" L X 24" W X 12" D WIREWAY WITH HINGED COVER.
2. FURNISH AND INSTALL EASY PATH SLEEVE SERIES 44 QTY. (1) FOR FIBER BACKBONE AND TELECOM CABLING; FURNISH CONDUIT SLEEVES FOR ELECTRICAL FEEDERS.
3. FURNISH AND INSTALL EMT-SURFACE MOUNTED CONDUIT FROM THIS POINT TO THE INTERIOR WIREWAY.



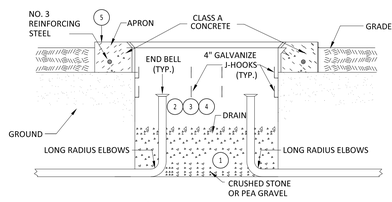
4 TELECOMMUNICATION AND ELECTRICAL WALL PENETRATION BUILDING DETAIL
N.T.S

MECHANICAL ROOM (8) ENLARGEMENT KEYNOTES:

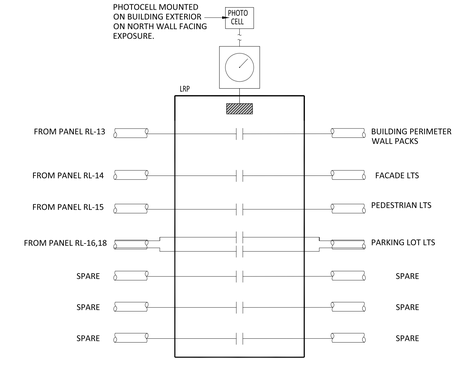
1. MOUNT TRANSFORMER 1RT & 1RC ON MINIMUM 3/4" RUBBER VIBRATION ISOLATION PADS WITH MINIMUM STATIC DEFLECTION OF 0.1". THIS IS REQUIRED TO MITIGATE STRUCTURE-BORNE NOISE TRANSMISSION FROM THE ELECTRICAL ROOM INTO THE NEIGHBORING STAGE AND TRAINING ROOM.

PULLBOX KEY NOTES: (8)

1. PLACE GRAVEL "UNDER" THE BOX. NOT "IN" THE BOX. GRAVEL SHOULD NOT ENCROACH ON THE INTERIOR VOLUME OF THE BOX.FURNISH AND INSTALL 18"OF DEPTH BELOW JUNCTION BOX.
2. MAINTAIN SUFFICIENT SPACE BETWEEN ALL CONDUITS SO AS TO ALLOW FOR PROPER INSTALLATION OF BUSHINGS.
3. ALL CONDUITS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
4. ALL CONDUITS INSTALLED IN THE ELECTRICAL BOX SHALL BE SEALED AFTER COMPLETION OF CONDUCTOR INSTALLATION AND ANY REQUIRED PULL TESTS. SILICONE SHALL NOT BE USED AS SEALANT.
5. FURNISH AND INSTALL 4" HEIGHT CONCRETE APRON. HEIGHT SHALL BE ABOVE GRADE.



ELECTRICAL/TELECOM PULL BOX (HIGHLINE#PHA243618)
5 N.T.S



SITE LIGHTING CONTROL TOUCHE RD-32-8
6 N.T.S

GENERAL NOTES:

REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

SITE PLAN KEY NOTES: (8)

1. APPROXIMATE LOCATION OF EXISTING ELECTRICAL SWITCH BOARD. FURNISH AND INSTALL NEW BRANCH BREAKER FOR POWER TO NEW BUILDING. FURNISH AND INSTALL 600 AMP FUSE , 3-POLE, 100 KAIC. EXISTING SWITCHBOARD IS 2000 AMP, CUTLER-HAMMER, POWER-R-LINE G.O. NO. HCP34814.
2. FURNISH AND INSTALL HINGED, NEMA 1, (24"L -X- 12"W -X- 12"D) PULL-BOX, ACCESSIBLE FROM BELOW.
3. APPROXIMATE LOCATION OF EXISTING COMMSCOPE FIBER CABINET. CONTRACTOR SHALL FURNISH AND INSTALL FIBER OPTIC CABLING ON EXISTING SPARE PORT. REFER TO TESS-204 FOR REQUIREMENTS.
4. SUPPORT CONDUIT TO THE BUILDING'S PARAPET.
5. FURNISH AND INSTALL HINGED, NEMA 3R, (24"L -X- 12"W -X- 12"D) PULL-BOX, ACCESSIBLE FROM THE SIDE.
6. APPROXIMATE LOCATION OF BUILDING CONDUIT PENETRATION. REFER TO WALL PENETRATION DETAILS FOR REQUIREMENTS.
7. FURNISH AND INSTALL HINGED, NEMA 1, (24"L -X- 12"W -X- 12"D) PULL-BOX, ACCESSIBLE FROM BELOW.
8. APPROXIMATE LOCATION OF EXISTING INTRUSION DETECTION, ACCESS CONTROL AND CAMERA SURVEILLANCE PANELS. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO INTERFACE NEW DEVICES TO EXISTING SYSTEMS INSTALL NEW 4-INCH CONDUIT WITH QTY.(4) 1-INCH INNER DUCTS FOR SPECIAL SYSTEMS CABLING. EXISTING SYSTEMS CONSIST OF THE FOLLOWING MANUFACTURERS:
   A. INTRUSION DETECTION PANEL:
   B. ACCESS CONTROL PANEL: ALTRONIX
   C. CAMERA SURVEILLANCE POWER SUPPLY PANEL: ALTRONIX
9. APPROXIMATE LOCATION OF EXISTING FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO INTERFACE NEW VOICE EVACUATION SYSTEM TO EXISTING FIRE ALARM. EXISTING SYSTEM CONSISTS OF A SIEMENS FS-250.
10. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO BORE UNDER EXISTING ASPHALT AND SIDE WALKS TO ALLOW FOR THE INSTALLATION OF NEW SITE LIGHTING CIRCUITS.
11. FURNISH AND INSTALL NEW ELECTRICAL PULL BOX. REFER TO DETAILS FOR REQUIREMENTS.
12. REFER TO SHEET ES-101 FOR ALTERNATE #5 PARKING LOT.
13. FOR OWNER FURNISHED POE SURVEILLANCE CAMERAS. REFER TO DETAILS FOR MOUNTING REQUIREMENTS. MOUNTING HEIGHT SHALL BE COORDINATED WITH OWNER PRIOR TO THE INSTALLATION OF THE ROUGH-IN INFRASTRUCTURE AND DATA CABLING.
14. APPROXIMATE LOCATION OF GATE OPERATOR. FURNISH AND INSTALL BRANCH CIRCUIT CONSISTING OF 2#10,1#10 EGC, 1-INCH CONDUIT. ROUTE A 1-INCH CONDUIT WITH COMMUNICATION WIRING TO MDF ROOM; EXTEND CONDUIT AND COMMUNICATION CABLING TO KEYPAD.
15. APPROXIMATE LOCATION FOR ACCESS CONTROL PEDESTAL MOUNTED KEYPADS. REFER TO SHEET E-203 FOR CONTROL REQUIREMENTS .
16. APPROXIMATE LOCATION OF PHOTO EYE EMITTER AND REFLECTOR.

REVISION: (8)

1. 19.03.18 ADDENDUM #4.
   1.1. REVISION TO CANOPY LIGHTING.
   1.2. ADDITION OF ELECTRICAL PANEL "RF" AT MECHANICAL ROOM.
   1.3. REVISION OF ELECTRICAL ONE-LINE DIAGRAM AND KEYNOTES.

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS 1900 W. SCHUNIOR EDINBURG, TEXAS 78541

PLAN NORTH TRUE NORTH

STATE OF TEXAS
JOSE ANTONIO NICANOR
108783
LICENSED PROFESSIONAL ENGINEER
03-18-2019

Project Number: 18017
Drawing Date: 03/18/19
Drawn: Author
Checked: Checker

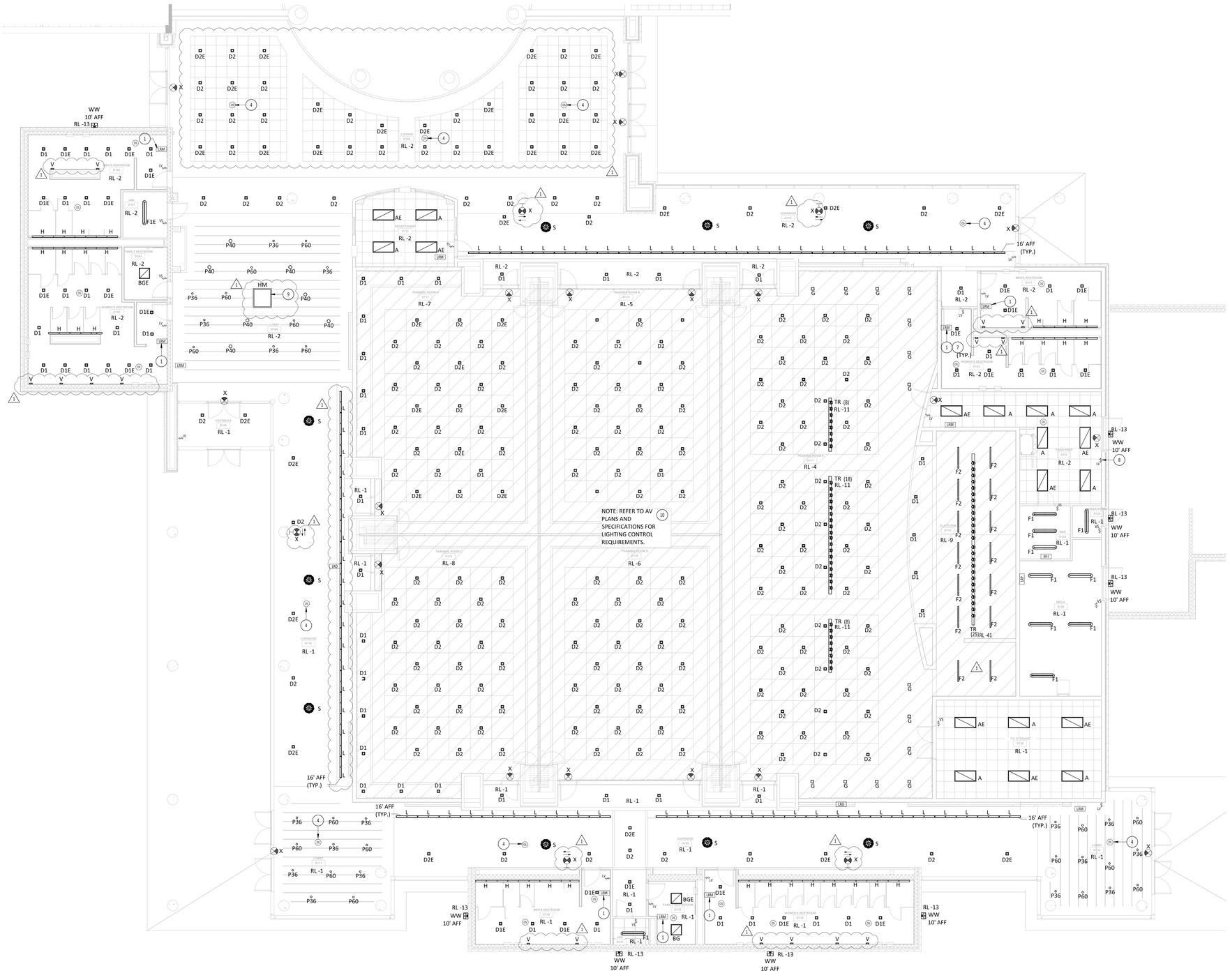
Revisions:

No.	Description	Date

Sheet Title:
ELECTRICAL SITE PLAN, ENLARGEMENT, ALTERNATE #4, AND DETAILS

ES-100

C:\Users\SigmaHNe_KA\Documents\Region One Edinburg_CENTRAL_SigmaHN_KA.rvt
11/16/2018 3:24:20 PM



GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEYNOTES: (#)

1. POWER PACKS TO BE USED TO CONTROL RESTROOMS EXHAUST FAN. FAN SHALL REMAIN ON 5 MINUTES AFTER LIGHT ARE TURNED OFF.
2. LIGHTING CONTROL SWITCH TO CONTROL LIGHTS AT ZONES 1, 2, 3, 4, & 5.
3. LIGHTING CONTROL SWITCH TO CONTROL LIGHTS AT ZONES 6 & 6A.
4. CONTRACTOR SHALL PROGRAM SENSOR TO FUNCTION AS DAYLIGHT SENSOR PER ENERGY CODE 2015.
5. CONTRACTOR SHALL INCLUDE IN HIS BID CONFIGURATION OF TOUCH SCREEN (TS7) TO SHOW FLOOR PLAN GRAPHICS OF TRAINING ZONES AS SHOWN ON PLANS.
6. CONTRACTOR SHALL INCLUDE IN HIS BID CONFIGURATION OF TOUCH SCREEN SWITCH (TS) TO MATCH ROOM NAMES AND NUMBER.
7. FURNISH AND INSTALL CATEGORY 6 PRE-TERMINATED CABLING FOR DEVICE INTERFACES. CABLING SHALL BE BY TELECOMMUNICATION CONTRACTOR. USE 1-INCH J-HOOK FOR SUPPORT.
8. FURNISH AND INSTALL LIGHT SWITCH TO CONTROL EXHAUST FAN.
9. LIGHT FIXTURE TYPE "S2" TO BE STRUCTURALLY SUPPORTED BY STEEL STRUCTURE ABOVE CEILING. HEIGHT OF BASE OF TYPE "S2" TO BE COORDINATED WITH ARCHITECT.
10. REFER TO AV PLANS FOR LIGHTING CONTROL CONFIGURATION AND REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID BRANCH CIRCUITS FROM THE ELECTRICAL PANEL, THROUGH THE LIGHTING RELAY PANEL AND OUT TO THE LIGHT FIXTURES AND CONTROLS FOR TRAINING ROOMS A,B,C,D,E AND PLATFORM D118 AND AS NOTED WITH DIAGONAL HATCH.

REVISION: (1)

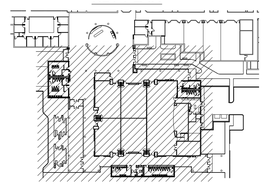
1. 19.03.18 ADDENDUM #4.
   - 1.1. REVISION TO LIGHTING LAYOUT AT LOUNGE D106.
   - 1.2. ADDITION OF TYPE "L" AT CORRIDOR D110 AND REVISION TO MOUNTING HEIGHT.
   - 1.3. ADDITION OF LIGHT FIXTURE TYPE "S2" D104 WITH KEYNOTE #9.
   - 1.4. ADDITION OF LIGHT FIXTURE TYPE "V" AT RESTROOMS.
   - 1.5. REVISION TO EXIT LIGHT MOUNTING.
   - 1.6. REVISION TO LIGHTING CONTROL LEGEND..
   - 1.7. REVISION TO KEYNOTE 10.

(1)

LIGHTING CONTROLS LEGEND

OS	TOUCHE LIGHTING CONTROLS SMAOS DUAL TECHNOLOGY LOW VOLTAGE CEILING SENSOR
VS	TOUCHE LIGHTING CONTROLS SW-O-D DUAL TECHNOLOGY WALL SENSOR (VACANCY MODE)
OS	TOUCHE LIGHTING CONTROLS SW-O-D DUAL TECHNOLOGY WALL SENSOR (OCCUPANCY MODE)
DOS	TOUCHE LIGHTING CONTROLS OSW-O-P-DIM 0-10V DIMMING WALL SENSOR
LV	TOUCHE LIGHTING CONTROLS SW-SF LOW VOLTAGE MOMENTARY SWITCH
TS	TOUCHE LIGHTING CONTROLS SW-TS LOW VOLTAGE TOUCHSCREEN SWITCH
TS	TOUCHE LIGHTING CONTROLS WS-TS-C-XX LOW VOLTAGE COLOR TOUCHSCREEN SWITCH
TST	TOUCHE LIGHTING CONTROLS TSUI 7-IN. COLOR TOUCHSCREEN
LRD	TOUCHE LIGHTING CONTROLS LRM-2P-120-347-0/10 DUAL-RELAY MODULE WITH 0-10V DIMMING
LRM	TOUCHE LIGHTING CONTROLS LRM-2P-120-347 DUAL-RELAY MODULE
DP	TOUCHE LIGHTING CONTROLS DI-PS PARTITION SENSOR
M-I	TOUCHE LIGHTING CONTROLS MASTER INTERFACE
AV	TOUCHE AUDIO AND VIDEO INTERFACE CI-RS232
LRP	TOUCHE LIGHTING CONTROL RELAY PANEL RD-32-8
LRL	TOUCHE LIGHTING CONTROL RELAY LRM-2P-120/347 FOR PLUG LOAD CONTROLLER

KEY PLAN



SIGMA HN
ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH / TRUE NORTH

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	Author
Checked:	Checker

Revisions:

No	Description	Date

Sheet Title:
ELECTRICAL LIGHTING PLAN

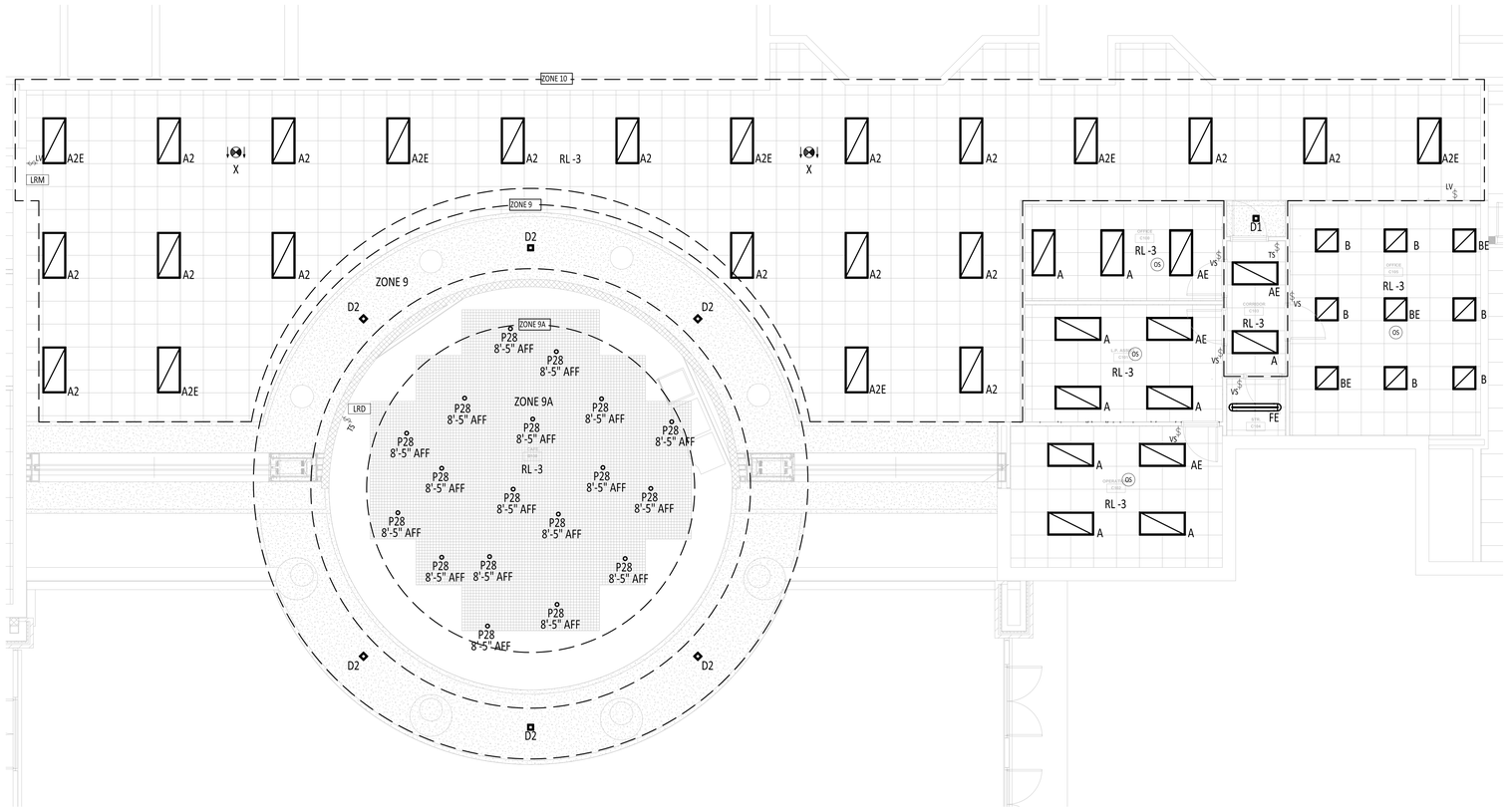
E-100

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

REVISION: 1

1. 19.03.18 ADDENDUM #4. REVISION TO LIGHTING CONTROL LEGEND.

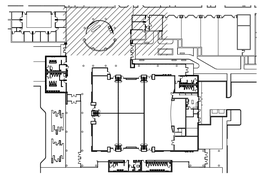


1 ELECTRICAL LIGHTING PLAN - OFFICES & CAFE
3/16" = 1'-0"

1

LIGHTING CONTROLS LEGEND	
OS	TOUCHE LIGHTING CONTROLS SMAOS DUAL TECHNOLOGY LOW VOLTAGE CEILING SENSOR
$VS	TOUCHE LIGHTING CONTROLS SW-O-D DUAL TECHNOLOGY WALL SENSOR (VACANCY MODE)
$OS	TOUCHE LIGHTING CONTROLS SW-O-D DUAL TECHNOLOGY WALL SENSOR (OCCUPANCY MODE)
$DOS	TOUCHE LIGHTING CONTROLS OSW-O-P-DIM 0-10V DIMMING WALL SENSOR
$LV	TOUCHE LIGHTING CONTROLS SW-SF LOW VOLTAGE MOMENTARY SWITCH
$TS	TOUCHE LIGHTING CONTROLS SW-TS LOW VOLTAGE TOUCHSCREEN SWITCH
$CTS	TOUCHE LIGHTING CONTROLS WS-TS-C-XX LOW VOLTAGE COLOR TOUCHSCREEN SWITCH
TS7	TOUCHE LIGHTING CONTROLS TSUI 7-IN. COLOR TOUCHSCREEN
LRD	TOUCHE LIGHTING CONTROLS LRM-2P-120-347-0/10 DUAL-RELAY MODULE WITH 0-10V DIMMING
LRM	TOUCHE LIGHTING CONTROLS LRM-2P-120-347 DUAL-RELAY MODULE
DP	TOUCHE LIGHTING CONTROLS DI-PS PARTITION SENSOR
M-I	TOUCHE LIGHTING CONTROLS MASTER INTERFACE
AV	TOUCHE AUDIO AND VIDEO INTERFACE CI-RS232
LRP	TOUCHE LIGHTING CONTROL RELAY PANEL RD-32-8
LRL	TOUCHE LIGHTING CONTROL RELAY LRM-2P-120/347 FOR PLUG LOAD CONTROLLER

KEY PLAN



SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS

CIVIL:
MELDEN & HUNT ENGINEERING

STRUCTURAL:
GREEN RUBIANO & ASSOCIATES

MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

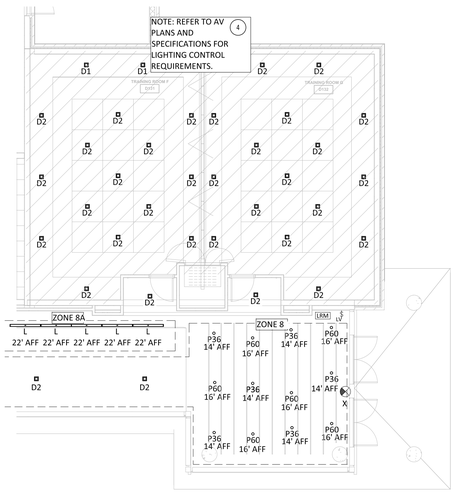
Project Number: 18017
Drawing Date: 03/18/19
Drawn: Author
Checked: Checker

Revisions:

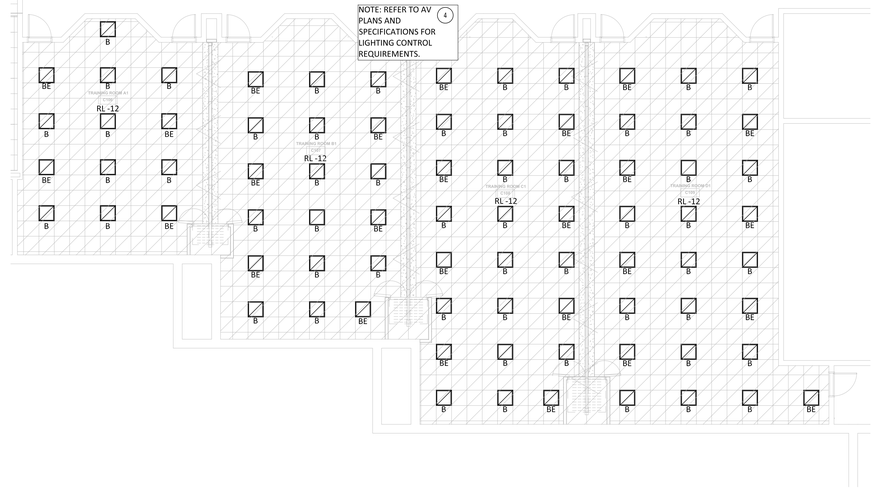
No.	Description	Date

Sheet Title:
ELECTRICAL LIGTHING PLAN

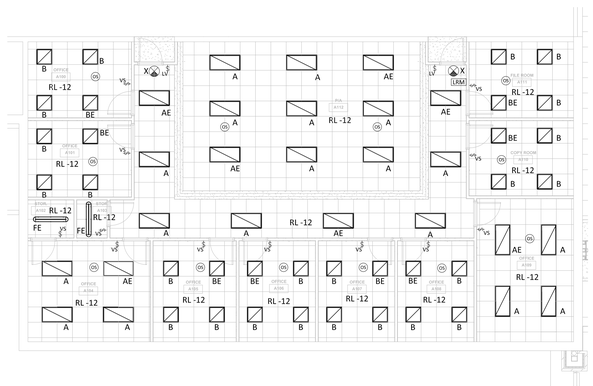
E-101



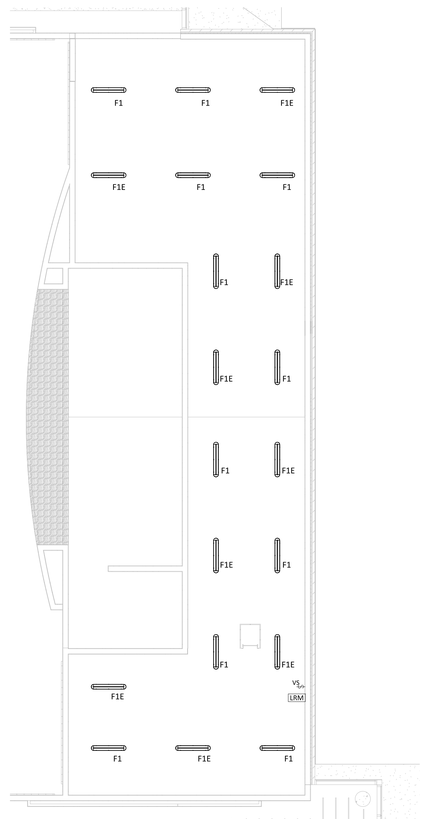
1 ELECTRICAL LIGHTING PLAN - ALTERNATE #1
1/8" = 1'-0"



2 ELECTRICAL LIGHITNG PLAN - ALTERNATE #2
1/8" = 1'-0"



3 ELECTRICAL LIGHTING PLAN - ALTERNATES #3
1/8" = 1'-0"



4 ELECTRICAL LIGHTING PLAN - MEZZANINE
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

1. KEYNOTES: (#)

2. CONTRACTOR SHALL INCLUDE IN HIS BID CONFIGURATION OF TOUCH SCREEN SWITCH (TS) TO MATCH ROOM NAMES AND NUMBER.
3. FURNISH AND INSTALL CATEGORY 6 PRE-TERMINATED CABLING FOR DEVICE INTERFACES. CABLING SHALL BE BY TELECOMMUNICATION CONTRACTOR. USE 1-INCH J-HOOK FOR SUPPORT.
4. REFER TO AV PLANS FOR LIGHTING CONTROL CONFIGURATION AND REQUIREMETNTS. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID BRANCH CIRCUITS FROM THE ELECTRICAL PANEL, THROUGH THE LIGHTING RELAY PANEL AND OUT TO THE LIGHT FIXTURES AND CONTROLS FOR TRAINING ROOMS F,G,A1,B1,C1, AND D1 AS NOTED WITH DIAGONAL HATCH.

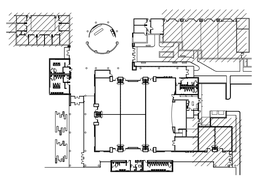
REVISION: (1)

1. 19.03.18 ADDENDUM #4. REVISION TO LIGHTING CONTROL LEGEND AND ADDITION OF KEYNOTE 4.

(1)

LIGHTING CONTROLS LEGEND	
OS	TOUCHE LIGHTING CONTROLS SMAOS DUAL TECHNOLOGY LOW VOLTAGE CEILING SENSOR
VS	TOUCHE LIGHTING CONTROLS SW-O-D DUAL TECHNOLOGY WALL SENSOR (VACANCY MODE)
OS	TOUCHE LIGHTING CONTROLS SW-O-D DUAL TECHNOLOGY WALL SENSOR (OCCUPANCY MODE)
DDS	TOUCHE LIGHTING CONTROLS OSW-O-P-DIM 0-10V DIMMING WALL SENSOR
LV	TOUCHE LIGHTING CONTROLS SW-SF LOW VOLTAGE MOMENTARY SWITCH
TS	TOUCHE LIGHTING CONTROLS SW-TS LOW VOLTAGE TOUCHSCREEN SWITCH
CTS	TOUCHE LIGHTING CONTROLS WS-TS-C-XX LOW VOLTAGE COLOR TOUCHSCREEN SWITCH
TS7	TOUCHE LIGHTING CONTROLS TSUI 7-IN. COLOR TOUCHSCREEN
LRD	TOUCHE LIGHTING CONTROLS LRM-2P-120-347-0/10 DUAL-RELAY MODULE WITH 0-10V DIMMING
LRM	TOUCHE LIGHTING CONTROLS LRM-2P-120-347 DUAL-RELAY MODULE
DP	TOUCHE LIGHTING CONTROLS DI-PS PARTITION SENSOR
M-I	TOUCHE LIGHTING CONTROLS MASTER INTERFACE
AV	TOUCHE AUDIO AND VIDEO INTERFACE CI-RS232
LRP	TOUCHE LIGHTING CONTROL RELAY PANEL RD-32-8
LRL	TOUCHE LIGHTING CONTROL RELAY LRM-2P-120/347 FOR PLUG LOAD CONTROLLER

KEY PLAN



SIGMA ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	Author
Checked:	Checker

Revisions:

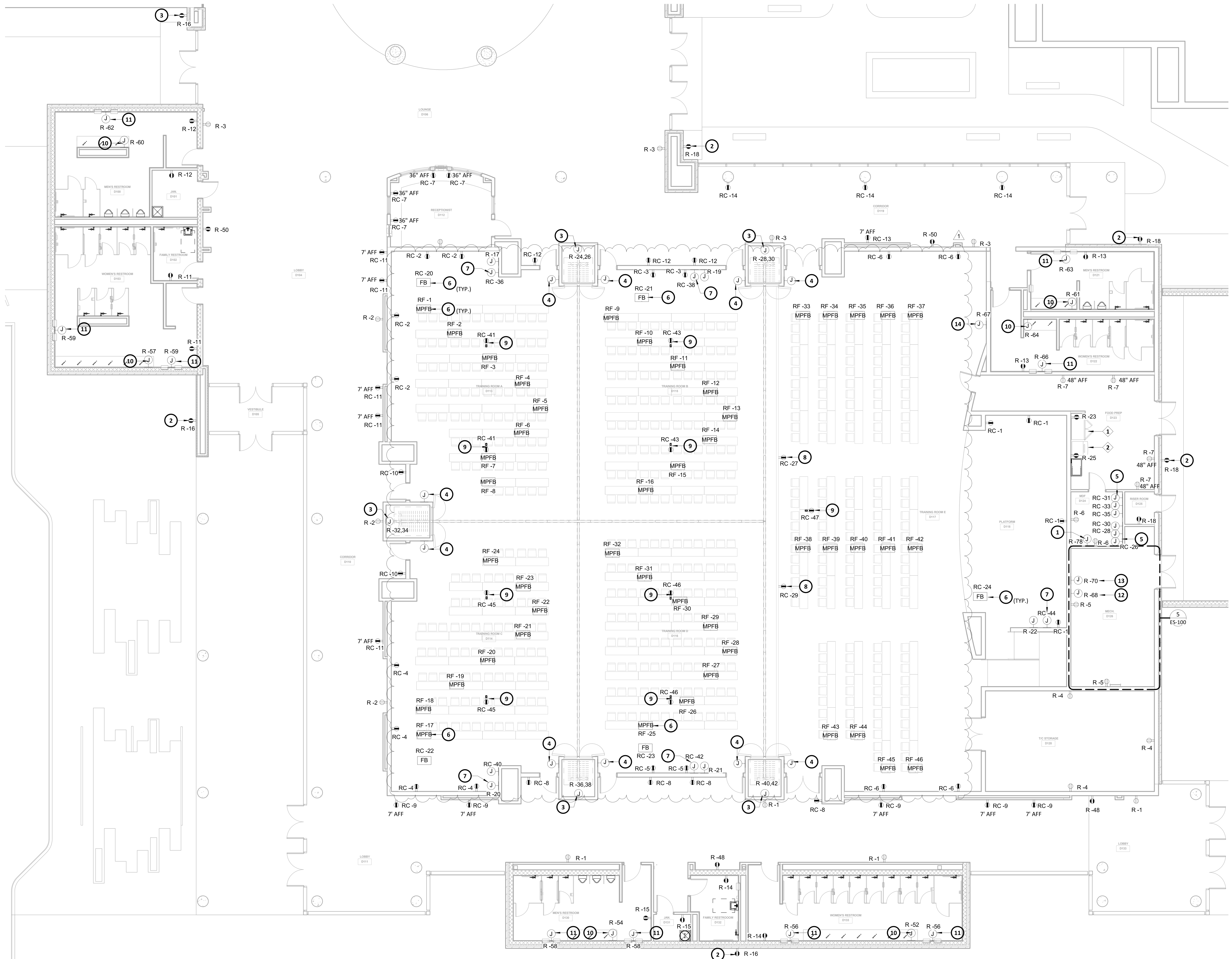
No	Description	Date

Sheet Title:
ELECTRICAL LIGHTING PLAN - ALTERNATES & MEZZANINE

E-102

FOOD PREP D123 & CAFÉ B100 ELECTRICAL EQUIPMENT CONNECTION SCHEDULE

ITEM NO.	QTY	SCHEDULE OF EQUIPMENT	VOLTAGE	PHASE	KW	AMPERAGE	HP	FED FROM	BRANCH CIRCUIT
1	1	REACH-IN REFRIGERATOR	115	1	-	16	-	PANEL "R"	2#12, 1#12G, 1/2-INCH CONDUIT
2	1	ICE MAKER	120	1	-	16	-	PANEL "R"	2#12, 1#12G, 1/2-INCH CONDUIT
3	2	VENDING MACHINE	120	1	-	16	-	PANEL "R"	2#12, 1#12G, 1/2-INCH CONDUIT
4	1	REFRIGERATOR	120	1	-	16	-	PANEL "R"	2#12, 1#12G, 1/2-INCH CONDUIT



1 ELECTRICAL POWER PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

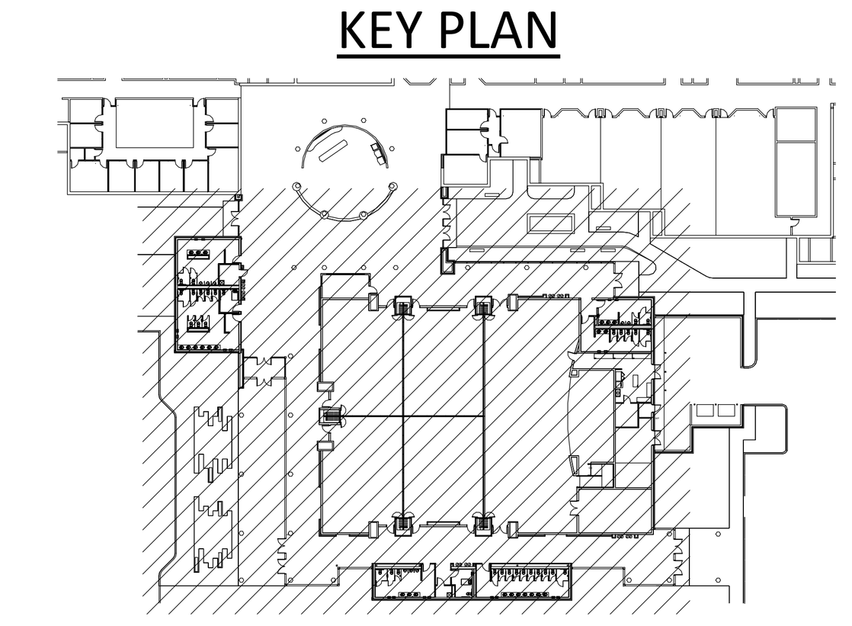
KEY NOTES: (#)

1. FURNISH AND INSTALL POWER FOR FIRE ALARM CONTROL PANEL.
2. FURNISH AND INSTALL FLUSH MOUNT GFCI WEATHER ROOF WHILE IN USE SINGLE GANG FLUSH MOUNTED COVER ASSEMBLY EQUAL TO LEGRAND #WIUFC105
3. FURNISH AND INSTALL POWER FOR PARTITION WALL CONSISTING OF 2#20, 1#10EGC, 1/2"C AND SAFETY DISCONNECT SWITCH 30/NF/2P, NEMA 1; INSTALL SWITCH ACCESSIBLE ABOVE CEILING. INCLUDE IN BID MATERIAL AND LABOR REQUIRED TO INSTALL TOUCH SCREEN, WALL SWITCH AND MOTION SENSOR.
4. FURNISH AND INSTALL J-BOX WITH 1/2"EMT CONDUIT, CONDUIT BUSHING AND PULL STRING FOR PARTITION WALL CONTROL SWITCH. MOUNT AT 48" AFF.
5. FURNISH AND INSTALL POWER FOR AV EQUIPMENT RACK. WIRE CIRCUIT TO QUAD RECEPTACLE LOCATED WITHING AV EQUIPMENT RACK.
6. FURNISH AND INSTALL 120V, 20A DEDICATED CIRCUIT TO POWER QUAD RECEPTACLE FOR FLOOR BOX (MPFB & FB).
7. WIRE CIRCUIT TO LOW VOLTAGE CONTROLLER ATTACHED TO PROJECTOR SCREEN AT MANUFACTURER SPECIFIED LOCATIONS. REFER TO AV PLANS FOR MOUNTING HEIGHT REQUIREMENTS.
8. FURNISH AND INSTALL RECEPTACLES FOR DISPLAY WALL BOX. REFER TO AV PLANS FOR MOUNTING HEIGHT REQUIREMENTS.
9. FURNISH AND INSTALL POWER FOR VIDEO PROJECTOR.
10. FURNISH AND INSTALL POWER FOR SENSOR FAUCETS.
11. FURNISH AND INSTALL POWER FOR PAPER TOWEL DISPENSER.
12. FURNISH AND INSTALL 120V, 20A DEDICATED CIRCUIT TO POWER CONTROL DISTRIBUTION PANEL.
13. FURNISH AND INSTALL 120V, 20A DEDICATED CIRCUIT TO POWER CONTROL RELAY PANEL.
14. FURNISH AND INSTALL POWER FOR VOICE ACTIVATATED FIRE ALARM PANEL.

REVISIONS: (#)

1. 19.03.18 ADDENDUM #4. REVISION TO ELECTRICAL POWER PLAN DUE TO ADDITION OF FLOOR BOXES AT TRAINING ROOMS.

KEY PLAN



GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE
EDUCATION SERVICE CENTER - EDINBURG
ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH TRUE NORTH

03.18.2019

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	Author
Checked:	Checker

Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

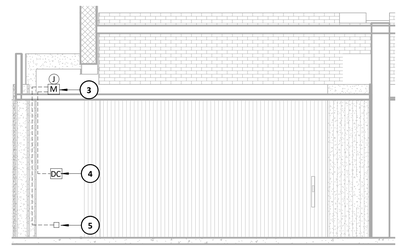
Sheet Title:
ELECTRICAL POWER PLAN

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

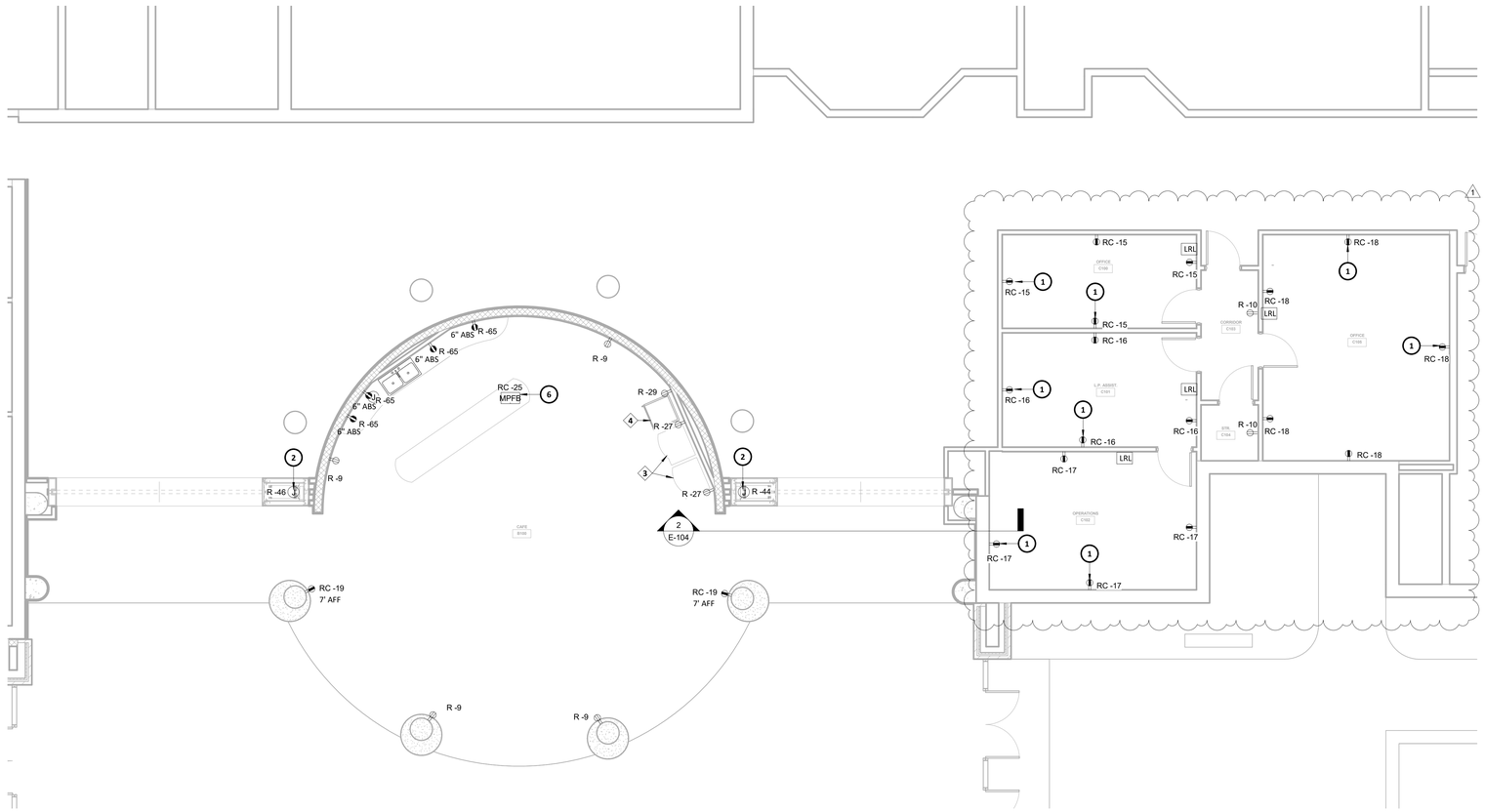
E-103

CONCESSION ELECTRICAL EQUIPMENT CONNECTION SCHEDULE

ITEM NO.	QTY	SCHEDULE OF EQUIPMENT	VOLTAGE	PHASE	KW	AMPERAGE	HP	FED FROM	BRANCH CIRCUIT
1	1	REACH-IN REFRIGERATOR (TRUE MFG. T-43-HC)	115	1	-	5.4	1/2	PANEL "R"	2#12, 1#12G, 1/2-INCH CONDUIT
2	1	ICE MAKER	120	1	-	-	-	PANEL "R"	2#12, 1#12G, 1/2-INCH CONDUIT
3	2	VENDING MACHINE	120	1	-	-	-	PANEL "R"	2#12, 1#12G, 1/2-INCH CONDUIT
4	1	REFRIGERATOR	120	1	-	-	-	PANEL "R"	2#12, 1#12G, 1/2-INCH CONDUIT

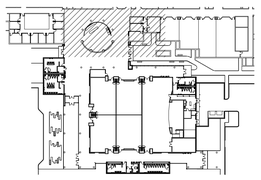


2 DOOR ACCORDION ELECTRICAL CONNECTION DETAIL (TYP.)
N.T.S.



1 ELECTRICAL POWER PLAN - OFFICES AND CAFE
3/16" = 1'-0"

KEY PLAN



SIGMA HNI
ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES: (#)

1. CIRCUITS SHALL BE CONTROLLED VIA PLUG LOAD CONTROLLER "LRL" CONSISTING ON TOUCHE MODEL LRM-2P-120/347.
2. FURNISH AND INSTALL POWER FOR ACCORDION DOORS.
3. ELECTRICAL MOTOR OPERATOR.
4. ACCORDION DOOR OPERATOR CONTROLS.
5. ENTRAPMENT PROTECTION SENSORS.
6. FURNISH AND INSTALL 120V, 20A DEDICATED CIRCUIT TO POWER FLOOR BOX WITH DATA DROP FOR POINT OD SALES. SAWCUT AND PATCH EXISTING SLAB TO ACCOMADATE NEW FLOOR BOX.

REVISIONS: (1)

1. 19.03.18 ADDENDUM #4, REVISION TO ELECTRICAL POWER PLAN TO SPECIFY PLUG LOAD CONTROLLER MODEL NUMBER.

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH | TRUE NORTH

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	Author
Checked:	Checker

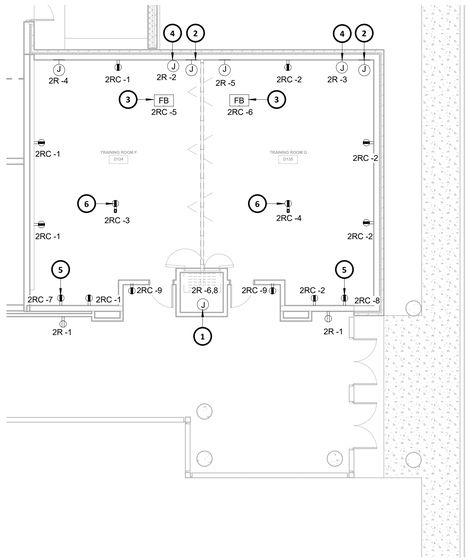
Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

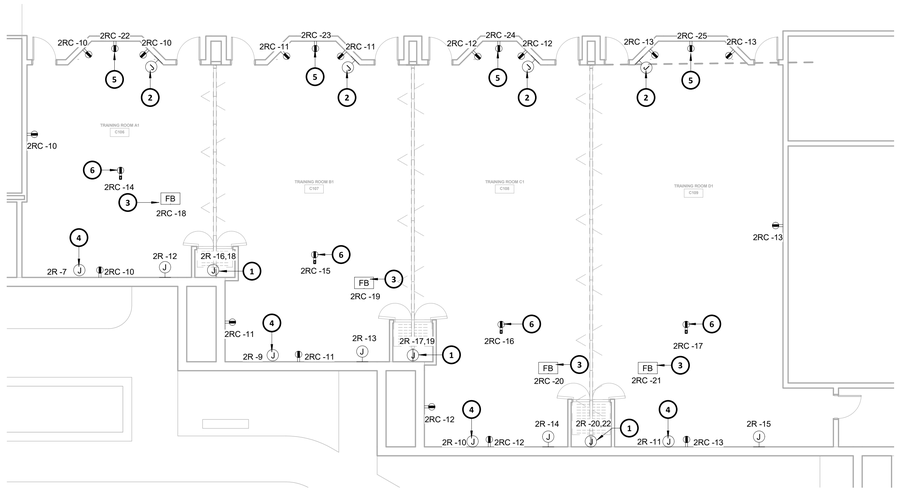
Sheet Title:
ELECTRICAL POWER PLAN

E-104

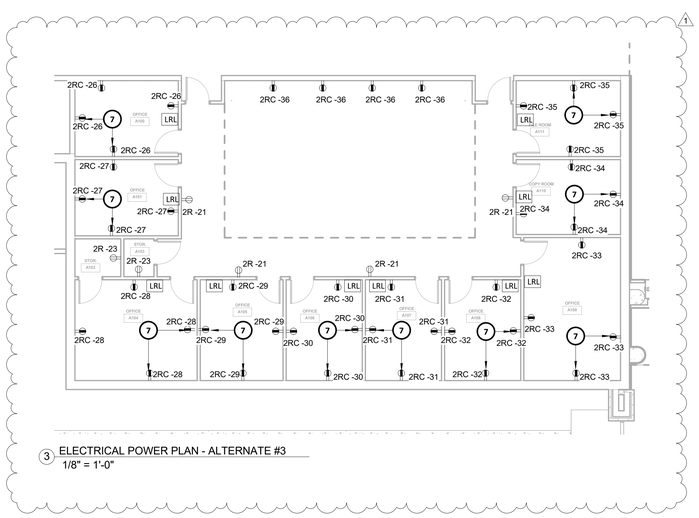
C:\Users\SigmaHNe_KA\Desktop\REVIT\REGION ONE\Region One Edinburg\KA-Region One Edinburg.rvt
3/18/2019 10:47:18 AM



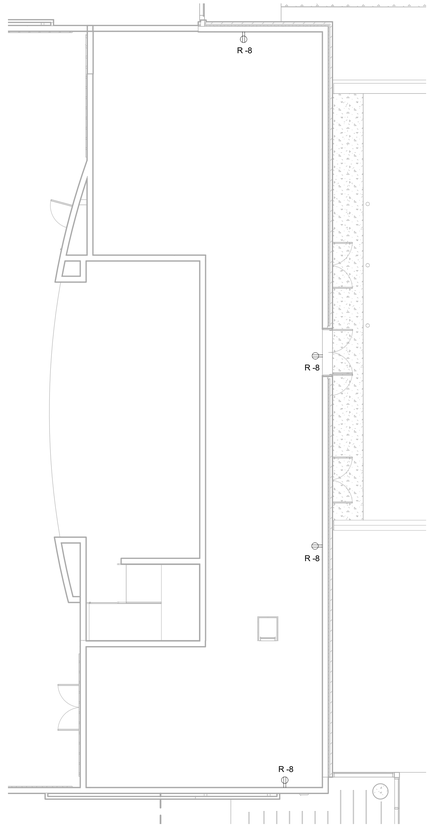
1 ELECTRICAL POWER PLAN - ALTERNATE #1
1/8" = 1'-0"



2 ELECTRICAL POWER PLAN - ALTERNATE #2
1/8" = 1'-0"



3 ELECTRICAL POWER PLAN - ALTERNATE #3
1/8" = 1'-0"



4 ELECTRICAL POWER PLAN - MEZZANINE
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

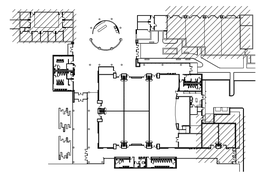
KEY NOTES: (#)

1. FURNISH AND INSTALL POWER FOR PARTITION WALL CONSISTING OF 2#20, 1#10EGC, 1/2"C AND SAFETY DISCONNECT SWITCH 30/NF/2P, NEMA 1; INSTALL SWITCH ACCESSIBLE ABOVE CEILING. INCLUDE IN BID MATERIAL AND LABOR REQUIRED TO INSTALL TOUCH SCREEN, WALL SWITCH AND MOTION SENSOR.
2. FURNISH AND INSTALL J-BOX WITH 1/2"EMT CONDUIT, CONDUIT BUSHING AND PULL STRING FOR PARTITION WALL CONTROL SWITCH. MOUNT AT 48" AFF.
3. FURNISH AND INSTALL 120V, 20A DEDICATED CIRCUIT TO POWER QUAD RECEPTACLE FOR FLOOR BOX (FB & MPFB).
4. WIRE CIRCUIT TO LOW VOLTAGE CONTROLLER ATTACHED TO PROJECTOR SCREEN AT MANUFACTURER SPECIFIED LOCATIONS. REFER TO AV PLANS FOR MOUNTING HEIGHT REQUIREMENTS.
5. FURNISH AND INSTALL RECEPTACLES FOR DISPLAY WALL BOX. REFER TO AV PLANS FOR MOUNTING HEIGHT REQUIREMENTS.
6. FURNISH AND INSTALL POWER FOR VIDEO PROJECTOR.
7. CIRCUITS SHALL BE CONTROLLED VIA PLUG LOAD CONTROLLER "LRL" CONSISTING ON TOUCHE MODEL LRM-2P-120/347.

REVISIONS: (1)

1. 19.03.18 ADDENDUM #4. REVISION TO ELECTRICAL POWER PLAN TO SPECIFY PLUG LOAD CONTROLLER MODEL NUMBER.

KEY PLAN



SIGMA HNI
ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232
222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH / TRUE NORTH

Project Number:	18017
Drawing Date:	03/18/19
Drawn:	Author
Checked:	Checker

Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

Sheet Title:
ELECTRICAL POWER PLAN - ALTERNATES & MEZZANINE

E-105

C:\Users\SigmaHNe_KA\Desktop\REVIT\REGION ONE\Region One Edinburg\KA-Region One Edinburg.rvt
3/18/2019 10:47:30 AM

Branch Panel: MDP

Location: ELEC. D127
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 40,000
Mains Type: COPPER
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	XFMR "RF"	300 A	3	1152...	0 VA					1	20 A	SPARE	2
3	--	--	--			1152...	0 VA			1	20 A	SPARE	4
5	--	--	--					1008...	1350...	3	300 A	XFMR "1RC"	6
7	XFMR "1RT"	300 A	3	2578...	1512...					--	--	--	8
9	--	--	--			2810...	1350...			--	--	--	10
11	--	--	--					2821...	0 VA	3	60 A	SURGE PROTECTION DEVICE	12
13	PANEL "RL"	400 A	3	6898...	0 VA					--	--	--	14
15	--	--	--			6870...	0 VA			--	--	--	16
17	--	--	--					6995...	369 VA	3	20 A	UH-1	18
19	VFD-5	20 A	3	942 VA	369 VA					--	--	--	20
21	--	--	--			942 VA	369 VA			--	--	--	22
23	--	--	--					942 VA	3048...	3	20 A	VFD-1	24
25	VFD-2	20 A	3	3048...	3048...					--	--	--	26
27	--	--	--			3048...	3048...			--	--	--	28
29	--	--	--					3048...	5820...	3	30 A	VFD-3	30
31	VFD-4	30 A	3	5820...	5820...					--	--	--	32
33	--	--	--			5820...	5820...			--	--	--	34
35	--	--	--					5820...	2683...	3	175 A	CH-1	36
37	CH-2	175 A	3	2683...	2683...					--	--	--	38
39	--	--	--			2683...	2683...			--	--	--	40
41	--	--	--					2683...	0 VA	1	20 A	SPARE	42
		Total Load:		194110 VA		194528 VA		194448 VA					
		Total Amps:		701 A		702 A		702 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	279217 VA	100.00%	279217 VA	
Other	188336 VA	100.00%	188336 VA	**Total Conn. Load:** 583085 VA
Receptacle	60360 VA	58.28%	35180 VA	**Total Est. Demand:** 557906 VA
Power	46774 VA	100.00%	46774 VA	**Total Conn.:** 701 A
Lighting	8534 VA	100.00%	8534 VA	**Total Est. Demand:** 671 A

Notes:

PANELBOARD "RL"

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE
400 A MAIN CIRCUIT BREAKER
BUSSING: MAIN - 400 A
ISC = 22,000 A RMS SYM

LOCATION: ELEC. D127
MOUNTING: SURFACE
NEUTRAL:100%
EQUIPMENT GROUND

ENCLOSURE: NEMA 1 NEMA

INTEGRAL SURGE PROTECTION DEVICE

CKT	BKR	VA:L	VA:R	VA:O	LOAD	PH	LOAD	VA:O	VA:R	VA:L	BKR	CKT
1	20/1	2834			LIGHTING INTERIOR	A	LIGHTING INTERIOR			3507	20/1	2
3	20/1	2582			LIGHTING INTERIOR	B	LTG. INTERIOR - ZONE 1			2072	20/1	4
5	20/1	644			LTG. INTERIOR - ZONE 2	C	LTG. INTERIOR - ZONE 3			756	20/1	6
7	20/1	756			LTG. INTERIOR - ZONE 4	A	LTG. INTERIOR - ZONE 5			756	20/1	8
9	20/1	850			LTG. STAGE	B	LTG. MEZZANINE			1240	20/1	10
11	20/1	0			TRACK LIGHTING	C	LIGHTING INTERIOR - ALTERNATES 1,2,3			5973	20/1	12
13	20/1	472			BUILDING PERIMETER WALL PACKS	A	FACADE LIGHTING			1656	20/1	14
15	20/1	390			PEDESTRIAN LIGHTING	B	PARKING LOT LIGHTING			5175	20/2	16
17	30/3	0		2498	VAV-1	C	"			5175	-	18
19	-	0		2498	"	A	VAV-2	1055		0	40/3	20
21	-	0		2498	"	B	"	1055		0	-	22
23	40/3	0		4100	VAV-3	C	"	1055		0	-	24
25	-	0		4100	"	A	VAV-6	3333		0	40/3	26
27	-	0		4100	"	B	"	3333		0	-	28
29	40/3	0		3167	VAV-5	C	"	3333		0	-	30
31	-	0		3167	"	A	VAV-4	1267		0	30/3	32
33	-	0		3167	"	B	"	1267		0	-	34
35	40/3	0		1277	VAV-7	C	"	1267		0	-	36
37	-	0		1277	"	A	VAV-8	333		0	30/3	38
39	-	0		1277	"	B	"	333		0	-	40
41	20/1	0			TRACK LIGHTING	C	"	333		0	-	42
43	20/1	0			SPARE	A	VAV-10 ALTERNATE #1	611		0	30/3	44
45	20/1	0			SPARE	B	"	611		0	-	46
47	40/3	0		500	VAV-9 ALTERNATE #1	C	"	611		0	-	48
49	-	0		500	"	A	EDH-2	3667		0	20/3	50
51	-	0		500	"	B	"	3667		0	-	52
53	20/3	0		3667	EDH-1	C	"	3667		0	-	54
55	-	0		3667	"	A	EDH-4	1766		0	80/3	56
57	-	0		3667	"	B	"	1766		0	-	58
59	80/3	0		1766	EDH-3	C	"	1766		0	-	60
61	-	0		1766	"	A	VAV-5-1	555		0	40/3	62
63	-	0		1766	"	B	"	555		0	-	64
65	40/3	0		500	VAV-5-2	C	"	555		0	-	66
67	-	0		500	"	A	VAV-5-3	555		0	30/3	68
69	-	0		500	"	B	"	555		0	-	70
71	20/1	0			SPARE	C	"	555		0	-	72
73	20/1	0			SPARE	A	SPARE			0	20/1	74
75	20/1	0			SPARE	B	SPARE			0	20/1	76
77	20/1	0			SPARE	C	SPARE			0	20/1	78
79	20/1	0			SPARE	A	SURGE PROTECTION DEVICE			0	60/3	80
81	20/1	0			SPARE	B	"			0	-	82
83	20/1	0			SPARE	C	"			0	-	84

NOTES::

VA:L (LIGHTING)	34838	CONNECTED	43548	DEMAND	
VA:R (RECEPTACLES)	0	CONNECTED	0	DEMAND	
VA:O (OTHER)	91851	CONNECTED	91851	DEMAND	
VA: TOTAL	126689	CONNECTED	135399	DEMAND	
AMPS: TOTAL	152	CONNECTED	163	DEMAND	

L	R	O				
9981	0	30617		40598	VA CONNECTED TO A PHASE	147 AMPS CONNECTED TO A PHASE @ 277 VOLTS
12309	0	30617		42926	VA CONNECTED TO B PHASE	155 AMPS CONNECTED TO B PHASE @ 277 VOLTS
12548	0	30617		43165	VA CONNECTED TO C PHASE	156 AMPS CONNECTED TO C PHASE @ 277 VOLTS
34838	0	91851	**TOTAL**	126689		

Branch Panel: R

Location: ELEC. D127
Supply From: XFMR 1RT
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: COPPER
Mains Rating: 250 A
MCB Rating: 250 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GEN. RCPT. CORRIDOR D129	20 A	1	720 VA	720 VA					1	20 A	GEN. RCPT. CORR.D110, LOBBY D104	2
3	GEN. RCPT. LOUNGE D106, CORRIDOR D119	20 A	1			720 VA	540 VA			1	20 A	GEN. RCPT. T/C STORAGE	4
5	GEN. RCPT. MECH./ELEC. ROOM	20 A	1					360 VA	360 VA	1	20 A	GEN. RCPT. MDF ROOM D124	6
7	GEN. RCPT. FOOD PREP D123	20 A	1	720 VA	720 VA					1	20 A	GEN. RCPT. MEZZANINE	8
9	GEN. RCPT. CAFE B100	20 A	1			720 VA	360 VA			1	20 A	GEN. RCPT. CORRIDOR C103 & STG C104	10
11	GFCI RCPT. WOMEN R.R. D103 & FAM. R.R....	20 A	1					360 VA	360 VA	1	20 A	GFCI RCPT. MEN R.R. D100 & JAN. 101	12
13	GFCI RCPT. WOMEN & MEN R.R. D121 & D122	20 A	1	360 VA	360 VA					1	20 A	GFCI RCPT. WOMEN R.R. D133 & FAM. R.R....	14
15	GFCI RCPT. MEN R.R D130 & JAN. D131	20 A	1			360 VA	540 VA			1	20 A	GFCI RCPT. BUILDING PERIMETER	16
17	AV BRIDGE TRAINING RM A D113	20 A	1					180 VA	720 VA	1	20 A	GFCI RCPT. BUILDING PERIMETER	18
19	AV BRIDGE TRAINING RM B D115	20 A	1	180 VA	180 VA					1	20 A	AV BRIDGE TRAINING RM C D114	20
21	AV BRIDGE TRAINING RM D D116	20 A	1			180 VA	180 VA			1	20 A	AV BRIDGE STAGE D118	22
23	ITEM 1 - REACH-IN REFRIFERATOR	20 A	1					1920...	1500...	2	20 A	PARTITION WALL MOTOR TRAINING ROOM	24
25	ITEM 2 - ICE MAKER	20 A	1	1920...	1500...					--	--	--	26
27	ITEM 3 - VENDING MACHINE	20 A	1			3840...	1500...			2	20 A	PARTITION WALL MOTOR TRAINING ROOM	28
29	ITEM 4 - REFRIGERATOR	20 A	1					1920...	1500...	--	--	--	30
31	SERVICE YARD GATE MOTOR	20 A	2	1664...	1500...					2	20 A	PARTITION WALL MOTOR TRAINING ROOM	32
33	--	--	--			1664...	1500...			--	--	--	34
35	EF-1 & 2	20 A	1					157 VA	1500...	2	20 A	PARTITION WALL MOTOR TRAINING ROOM	36
37	EF-3 & 4	20 A	1	157 VA	1500...					--	--	--	38
39	EF-5 & 6	20 A	1			157 VA	1500...			2	20 A	PARTITION WALL MOTOR TRAINING ROOM	40
41	WH-1D	30 A	2					2250...	1500...	--	--	--	42
43	--	--	--	2250...	500 VA					1	20 A	ACCORDION DOOR MOTOR CAFE B100	44
45	WH-2D	30 A	2			2250...	500 VA			1	20 A	ACCORDION DOOR MOTOR CAFE B100	46
47	--	--	--					2250...	360 VA	1	20 A	EWC - CORRIDOR D129	48
49	WH-3D	30 A	2	2250...	360 VA					1	20 A	EWC - LOBBY D104 & CORRIDOR D119	50
51	--	--	--			2250...	180 VA			1	20 A	WOMEN R.R. D133 SENSOR FAUCET	52
53	FCU-1 & FCCU-1	20 A	2					1140...	180 VA	1	20 A	MENR.R. D130 SENSOR FAUCET	54
55	--	--	--	1140...	360 VA					1	20 A	WOMEN R.R. D133 PAPER TOWEL DISPENSER	56
57	WOMEN R.R. D103 SENSOR FAUCET	20 A	1			180 VA	360 VA			1	20 A	MEN R.R. D130 PAPER TOWEL DISPENSER	58
59	WOMEN R.R. D103 PAPER DISPENSER	20 A	1					360 VA	180 VA	1	20 A	MEN R.R. D100 SENSOR FAUCET	60
61	MENR.R. D121SENSOR FAUCET	20 A	1	180 VA	180 VA					1	20 A	MEN R.R. D100 PAPER DISPENSER	62
63	MEN R.R. D121 PAPER TOWEL DISPENSER	20 A	1			180 VA	180 VA			1	20 A	WOMEN R.R. D122 SENSOR FAUCET	64
65	GFCI RCPT. CAFE B100	20 A	1					720 VA	180 VA	1	20 A	WOMEN R.R. D122 PAPER TOWEL DISPENSER	66
67	VOICE ACTIVATED FIRE ALARM PANEL	20 A	1	180 VA	180 VA					1	20 A	CONTROL RELAY PANEL	68
69	IWH-1	20 A	2			2500...	180 VA			1	20 A	CONTROL DISTRIBUTION PANEL	70
71	--	--	--					2500...	78 VA	1	20 A	EF-7	72
73	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	74
75	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	76
77	SPARE	20 A	1					0 VA	180 VA	1	20 A	FIRE ALARM CONTROL PANEL	78
79	PANEL "2R"	150 A	3	6220...	0 VA					3	60 A	SURGE PROTECTION DEVICE	80
81	--	--	--			5580...	0 VA			--	--	--	82
83	--	--	--					5720...	0 VA	--	--	--	84
		Total Load:		25782 VA		28101 VA		28215 VA					
		Total Amps:		215 A		237 A		238 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	2280 VA	100.00%	2280 VA	
Other	14048 VA	100.00%	14048 VA	**Total Conn. Load:** 82092 VA
Receptacle	26880 VA	68.60%	18440 VA	**Total Est. Demand:** 73653 VA
Power	39328 VA	100.00%	39328 VA	**Total Conn.:** 228 A
				Total Est. Demand: 204 A

Notes:

Branch Panel: 2R

Location: ELEC. D127
Supply From: R
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: COPPER
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GEN. RCPT. CORRIDOR - ALT #1	20 A	1	360 VA	500 VA					1	20 A	PROJ. SCREEN TRAINING RM. D131 - ALT #1	2
3	PROJ. SCREEN TRAINING RM. D132 - ALT #1	20 A	1			500 VA	180 VA			1	20 A	AV BRIDGE TRAINING RM. D131 - ALT #1	4
5	AV BRIDGE TRAINING RM. D132 - ALT #1	20 A	1					180 VA	1500...	2	20 A	PARTITION WALL MOTOR TRAINING RM. ALT...	6
7	PROJECTOR SCREEN TRAINING RM. A1 - AL...	20 A	1	500 VA	1500...					--	--	--	8
9	PROJECTOR SCREEN TRAINING RM. B1 - AL...	20 A	1			500 VA	500 VA			1	20 A	PROJECTOR SCREEN TRAINING RM. C1 - AL...	10
11	PROJECTOR SCREEN TRAINING RM. D1 - AL...	20 A	1					500 VA	180 VA	1	20 A	AV BRIDGE TRAINING RM - ALT #2	12
13	AV BRIDGE TRAINING RM - ALT #2	20 A	1	180 VA	180 VA					1	20 A	AV BRIDGE TRAINING RM - ALT #2	14
15	AV BRIDGE TRAINING RM - ALT #2	20 A	1			180 VA	1500...			2	20 A	PARTITION WALL MOTOR TRAINING RM. ALT...	16
17	PARTITION WALL MOTOR TRAINING ROOM...	20 A	2					1500...	1500...	--	--	--	18
19	--	--	--	1500...	1500...					2	20 A	PARTITION WALL MOTOR TRAINING RM. ALT...	20
21	GEN. RCPT. CORRIDOR - ALT #3	20 A	1			720 VA	1500...			--	--	--	22
23	GEN. RCPT. JAN. A103 & CLST A102 - ALT. #3	20 A	1					360 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					3	60 A	SURGE PROTECTION DEVICE	38
39	SPARE	20 A	1			0 VA	0 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	0 VA	--	--	--	42
		Total Load:		6220 VA		5580 VA		5720 VA					
		Total Amps:		52 A		47 A		48 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	2520 VA	100.00%	2520 VA	
Power	15000 VA	100.00%	15000 VA	**Total Conn. Load:** 17520 VA
				Total Est. Demand: 17520 VA
				Total Conn.: 49 A
				Total Est. Demand: 49 A

Notes:

REVISIONS:

1. 19.03.18 ADDENDUM #4. REVISION TO PANEL "MDP" DUE TO ADDITION OF XFMR "RF" TO POWER ELECTRICAL PANEL "RF".

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE
EDUCATION SERVICE CENTER - EDINBURG
ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number: 18017
Drawing Date: 03/18/19
Drawn: Author
Checked: Checker

Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

Sheet Title:
ELECTRICAL PANEL SCHEDULES

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

E-200

Branch Panel: RC

Location: MECH. D126
Supply From: XFMR 1RC
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: COPPER
Mains Rating: 200 A
MCB Rating: 250 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	IG RCPT. STAGE D118	20 A	1	720 VA	720 VA		1	20 A	IG RCPT. TRAINING RM. A D113	2
3	IG RCPT. TRAINING RM. B D115	20 A	1	360 VA	720 VA		1	20 A	IG RCPT. TRAINING RM. C D114	4
5	IG RCPT. TRAINING RM. D116	20 A	1			360 VA 720 VA	1	20 A	IG RCPT. TRAINING RM. E D117	6
7	IG RCPT. RECEPTIONIST D112	20 A	1	720 VA	720 VA		1	20 A	IG RCPT EMAIL STATIONS CORRIDOR D129	8
9	IG RCPT. MONITORS D129	20 A	1		900 VA	360 VA	1	20 A	IG RCPT EMAIL STATIONS D110	10
11	IG RCPT. MONITORS D110 & D104	20 A	1			900 VA 540 VA	1	20 A	IG RCPT EMAIL STATIONS D119	12
13	IG RCPT. MONITORS D119	20 A	1	180 VA	540 VA		1	20 A	IG RCPT EMAIL STATIONS D119	14
15	IG RCPT. OFFICE C100	20 A	1		720 VA	720 VA	1	20 A	IG RCPT. L.P. ASSIST. C101	16
17	IG RCPT. OPERATIONS C102	20 A	1			720 VA 900 VA	1	20 A	IG RCPT. OFFICE C105	18
19	IG RCPT. MONITORS CAFE B100	20 A	1	360 VA	720 VA		1	20 A	FLOOR BOX TRAINING RM. A D113	20
21	FLOOR BOX TRAINING RM. B D115	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING RM. C D114	22
23	FLOOR BOX TRAINING RM. D D116	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX STAGE D118	24
25	FLOOR BOX CAFE B100	20 A	1	720 VA	180 VA		1	20 A	AV EQUIPMENT RACK MDF D124	26
27	DISPLAY WALL BOX TRAINING RM. E D117	20 A	1		180 VA	180 VA	1	20 A	AV EQUIPMENT RACK MDF D124	28
29	DISPLAY WALL BOX TRAINING RM. E D117	20 A	1			180 VA 180 VA	1	20 A	AV EQUIPMENT RACK MDF D124	30
31	AV EQUIPMENT RACK MDF D124	20 A	1	180 VA	720 VA		1	20 A	TELECOMM. RACK-1	32
33	AV EQUIPMENT RACK MDF D124	20 A	1		180 VA	720 VA	1	30 A	TELECOMM. RACK-2	34
35	AV EQUIPMENT RACK MDF D124	20 A	1			180 VA 180 VA	1	20 A	PROJECTOR SCREENS TRAINING RM. A D113	36
37	QUAD RCPT. MDF D124 RACK-1	20 A	1	720 VA	180 VA		1	20 A	PROJECTOR SCREENS TRAINING RM B D115	38
39	QUAD RCPT. MDF D124 RACK-2	20 A	1		720 VA	180 VA	1	20 A	PROJECTOR SCREENS TRAINING RM C D114	40
41	VIDEO PROJECTOR TRAINING RM A D113	20 A	1			360 VA 180 VA	1	20 A	PROJECTOR SCREENS TRAINING RM D D116	42
43	VIDEO PROJECTOR TRAINING RM B D115	20 A	1	360 VA	180 VA		1	20 A	PROJECTOR SCREEN STAGE D118	44
45	VIDEO PROJECTOR TRAINING RM C D114	20 A	1	360 VA	360 VA		1	20 A	VIDEO PROJECTOR TRAINING RM D D116	46
47	VIDEO PROJECTOR STAGE D118	20 A	1			180 VA 0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	50
51	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	52
53	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	56
57	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	58
59	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	60
61	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	62
63	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	64
65	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	66
67	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	68
69	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	70
71	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	72
73	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	74
75	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	76
77	SPARE	20 A	1			0 VA 6480...	3	150 A	PANEL "2RC"	78
79	SURGE PROTECTION DEVICE	60 A	3	0 VA	5580...		--	--	--	80
81	--	--	--		0 VA	7020...	--	--	--	82
83	--	--	--			0 VA 0 VA	1	20 A	SPARE	84
	Total Load:			13500 VA	15120 VA	13500 VA				
	Total Amps:			113 A	126 A	113 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	8640 VA	100.00%	8640 VA		
Receptacle	33480 VA	64.93%	21740 VA	**Total Conn. Load:**	42120 VA
				Total Est. Demand:	30380 VA
				Total Conn.:	117 A
				Total Est. Demand:	84 A

Notes:

Branch Panel: 2RC

Location:
Supply From: RC
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: COPPER
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	IG RCPT. TRAINING RM.F D131 - ALT #1	20 A	1	720 VA	720 VA		1	20 A	IG RCPT. TRAINING RM. G D132 - ALT #1	2
3	VIDEO PROJECTOR TRAINING RM. D131 - AL...	20 A	1		180 VA	180 VA	1	20 A	VIDEO PROJECTOR TRAINING RM. D132 - AL...	4
5	FLOOR BOX TRAINING RM. D131 - ALT #1	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX TRAINING RM. D132 - ALT #1	6
7	DISPLAY WALL BOX TRAINING RM. D131 - AL...	20 A	1	180 VA	180 VA		1	20 A	DISPLAY WALL BOX TRAINING RM. D132 - AL...	8
9	IG RCPT. EMAIL STATION - ALT #1	20 A	1		360 VA	720 VA	1	20 A	IG RCPT. TRAINING RM. A1 C106 - ALT #2	10
11	IG RCPT. TRAINING RM. B1 C107 - ALT #2	20 A	1			720 VA 720 VA	1	20 A	IG RCPT. TRAINING RM. C1 C108 - ALT #2	12
13	IG RCPT. TRAINING RM. D1 C109 - ALT #2	20 A	1	720 VA	180 VA		1	20 A	VIDEO PROJ. TRAINING RM. A1 C106 - ALT #2	14
15	VIDEO PROJ. TRAINING RM. B1 C107 - ALT #2	20 A	1		180 VA	180 VA	1	20 A	VIDEO PROJ. TRAINING RM. C1 C108 - ALT #2	16
17	VIDEO PROJ. TRAINING RM. D1 C109 - ALT #2	20 A	1			180 VA 720 VA	1	20 A	FLOOR BOX TRAINING RM. A1 C106 ALT #2	18
19	FLOOR BOX TRAINING RM. B1 C107 - ALT #2	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING RM. C1 C108 ALT #2	20
21	FLOOR BOX TRAINING RM. D1 C109 - ALT #2	20 A	1		720 VA	180 VA	1	20 A	DISPLAY WALL BOX TRNG RM. A1 C106 - ALT...	22
23	DISPLAY WALL BOX TRNG RM. B1 C107 - ALT...	20 A	1			180 VA 180 VA	1	20 A	DISPLAY WALL BOX TRNG RM. C1 C108 - ALT...	24
25	DISPLAY WALL BOX TRNG RM. D1 C109 - ALT...	20 A	1	180 VA	720 VA		1	20 A	IG RCPT. OFFICE A100 - ALT #3	26
27	IG RCPT. OFFICE A101 - ALT #3	20 A	1		720 VA	720 VA	1	20 A	IG RCPT. OFFICE A104 - ALT #3	28
29	IG RCPT. OFFICE A105 - ALT #3	20 A	1			720 VA 720 VA	1	20 A	IG RCPT. OFFICE A106 - ALT #3	30
31	IG RCPT. OFFICE A107 - ALT #3	20 A	1	720 VA	720 VA		1	20 A	IG RCPT. OFFICE A108 - ALT #3	32
33	IG RCPT. OFFICE A109 - ALT #3	20 A	1		720 VA	720 VA	1	20 A	IG RCPT. COPY RM. A110 - ALT #3	34
35	IG RCPT. FILE RM. A111 - ALT #3	20 A	1			720 VA 720 VA	1	20 A	IG RCPT. P/A A112 - ALT #3	36
37	SPARE	20 A	1	0 VA	0 VA		3	60 A	SURGE PROTECTION DEVICE	38
39	SPARE	20 A	1		0 VA	0 VA	--	--	--	40
41	SPARE	20 A	1			0 VA 0 VA	--	--	--	42
	Total Load:			6480 VA	5580 VA	7020 VA				
	Total Amps:			55 A	47 A	60 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4320 VA	100.00%	4320 VA		
Receptacle	14760 VA	83.88%	12380 VA	**Total Conn. Load:**	19080 VA
				Total Est. Demand:	16700 VA
				Total Conn.:	53 A
				Total Est. Demand:	46 A

Notes:

Branch Panel: RF

Location: MECH. D126
Supply From: XFMR RF
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: COPPER
Mains Rating: 150 A
MCB Rating: 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	FLOOR BOX TRAINING ROOM A D113	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING ROOM A D113	2
3	FLOOR BOX TRAINING ROOM A D113	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING ROOM A D113	4
5	FLOOR BOX TRAINING ROOM A D113	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX TRAINING ROOM A D113	6
7	FLOOR BOX TRAINING ROOM A D113	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING ROOM A D113	8
9	FLOOR BOX TRAINING ROOM B D115	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING ROOM B D115	10
11	FLOOR BOX TRAINING ROOM B D115	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX TRAINING ROOM B D115	12
13	FLOOR BOX TRAINING ROOM B D115	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING ROOM B D115	14
15	FLOOR BOX TRAINING ROOM B D115	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING ROOM B D115	16
17	FLOOR BOX TRAINING ROOM C D114	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX TRAINING ROOM C D114	18
19	FLOOR BOX TRAINING ROOM C D114	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING ROOM C D114	20
21	FLOOR BOX TRAINING ROOM C D114	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING ROOM C D114	22
23	FLOOR BOX TRAINING ROOM C D114	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX TRAINING ROOM C D114	24
25	FLOOR BOX TRAINING ROOM D D116	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING ROOM D D116	26
27	FLOOR BOX TRAINING ROOM D D116	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING ROOM D D116	28
29	FLOOR BOX TRAINING ROOM D D116	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX TRAINING ROOM D D116	30
31	FLOOR BOX TRAINING ROOM D D116	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING ROOM D D116	32
33	FLOOR BOX TRAINING ROOM E D117	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING ROOM E D117	34
35	FLOOR BOX TRAINING ROOM E D117	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX TRAINING ROOM E D117	36
37	FLOOR BOX TRAINING ROOM E D117	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING ROOM E D117	38
39	FLOOR BOX TRAINING ROOM E D117	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING ROOM E D117	40
41	FLOOR BOX TRAINING ROOM E D117	20 A	1			720 VA 720 VA	1	20 A	FLOOR BOX TRAINING ROOM E D117	42
43	FLOOR BOX TRAINING ROOM E D117	20 A	1	720 VA	720 VA		1	20 A	FLOOR BOX TRAINING ROOM E D117	44
45	FLOOR BOX TRAINING ROOM E D117	20 A	1		720 VA	720 VA	1	20 A	FLOOR BOX TRAINING ROOM E D117	46
47	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	50
51	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	52
53	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	56
57	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	58
59	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	60
61	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	62
63	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	64
65	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	66
67	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	68
69	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	70
71	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	72
73	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	74
75	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	76
77	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	78
79	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	80
81	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	82
83	SPARE	20 A	1			0 VA 0 VA	1	20 A	SPARE	84
	Total Load:			11520 VA	11520 VA	10080 VA				
	Total Amps:			98 A	98 A	84 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	33120 VA	100.00%	33120 VA		
				Total Conn. Load:	33120 VA
				Total Est. Demand:	33120 VA
				Total Conn.:	92 A
				Total Est. Demand:	92 A

Notes:

REVISIONS:

1. 19.03.18 ADDENDUM #4. ADDITION OF ELECTRICAL PANEL "RF" FOR ADDITIONAL FLOOR BOXES AT TRAININGS.

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number: 18017
Drawing Date: 03/18/19
Drawn: Author
Checked: Checker

Revisions:

No.	Description	Date
1	Revision 1	12/12/2018

Sheet Title:
ELECTRICAL PANEL SCHEDULES

SIGMA HNI ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

E-201

REVISION: ⚠

1. 19.03.18 ADDENDUM #4. REVISION TO LIGHT FIXTURE SCHEDULES.

LIGHT FIXTURE SCHEDULE

TYPE	MANUF.	CATALOG No.	MOUNTING	LAMP INFO.			VOLTAGE	INPUT W	DESCRIPTION
				TYPE	COLOR	LUMENS			
A	EATON - METALUX	24FP4735C	RECESSED	LED	3500K	4990	UNV	41	2X4 FLAT PANEL TROFFER
AE	EATON - METALUX	24FP4735C-EL14W	RECESSED	LED	3500K	4990	UNV	41	2X4 FLAT PANEL TROFFER WITH BATTERY BACK UP
A2	EATON - METALUX	24FP6435C	RECESSED	LED	3500K	6602	UNV	59	2X4 FLAT PANEL TROFFER
A2E	EATON - METALUX	24FP6435C-EL14W	RECESSED	LED	3500K	6602	UNV	59	2X4 FLAT PANEL TROFFER WITH BATTERY BACK UP
B	EATON - METALUX	22FP3235C	RECESSED	LED	3500K	3417	UNV	30	2X2 FLAT PANEL TROFFER
BE	EATON - METALUX	22FP3235C-EL14W	RECESSED	LED	3500K	34717	UNV	30	2X2 FLAT PANEL TROFFER WITH BATTERY BACK UP
BG	EATON - METALUX	22FP3235C-DF-22W-U	RECESSED	LED	3500K	3417	UNV	30	2X2 FLAT PANEL TROFFER
BGE	EATON - METALUX	22FP3235C-DF-22W-U-EL14W	RECESSED	LED	3500K	3417	UNV	30	2X2 FLAT PANEL TROFFER WITH BATTERY BACK UP
D1	EATON - PORTFOLIO	LDSQ4B15D010 EU4B10208035 4LBSQ2H	RECESSED	LED	3500K	1500	UNV	16	4" SQUARE DOWNLIGHT
D1E	EATON - PORTFOLIO	LDSQ4B15D010 EU4B10208035 4LBSQ2H-EM14	RECESSED	LED	3500K	1500	UNV	16	4" SQUARE DOWNLIGHT WITH BATTERY BACK UP
D2	EATON - PORTFOLIO	LDSQ4B30D010 EU4B30408035 4LBSQ2H	RECESSED	LED	3500K	3000	UNV	28	4" SQUARE DOWNLIGHT
D2E	EATON - PORTFOLIO	LDSQ4B30D010 EU4B30408035 4LBSQ2H-EM14	RECESSED	LED	3500K	3000	UNV	28	4" SQUARE DOWNLIGHT WITH BATTERY BACK UP
F1	EATON - METALUX	4SNLED-LD5-65HL-LW-UNV-L835-CD1-U	SURFACE	LED	3500K	6500	UNV	62	4' LINEAR STRIP LIGHT WIDE LIGHT DISTRIBUTION
F1E	EATON - METALUX	4SNLED-LD5-65HL-LW-UNV-L835-CD1-U-EL14W	SURFACE	LED	3500K	6500	UNV	62	4' LINEAR STRIP LIGHT WITH WIDE LIGHT DISTRIBUTION AND BATTERY BACK UP
F2	EATON - METALUX	4SNLED-LD5-64SL-LW-UNV-L835-CD1-U	SURFACE	LED	3500K	6400	UNV	55	4' LINEAR STRIP LIGHT WITH NARROW LIGHT DISTRIBUTION
F2E	EATON - METALUX	4SNLED-LD5-64SL-LW-UNV-L835-CD1-U-EL14W	SURFACE	LED	3500K	6400	UNV	55	4' LINEAR STRIP LIGHT WITH NARROW LIGHT DISTRIBUTION AND BATTERY BACK UP
G	EATON - PORTFOLIO	LSSQS4B30D010MB EC4B30508035 4LBSQ0H AC4120MB	PENDANT	LED	3500K	3040	UNV	28	4" SQUARE CYLINDER PENDANT WITH 3000 LUMEN DOWNLIGHT
H	ALIGHT	D9-MX-LS-35-U-HE-XX-B-D	COVE	LED	3500K	414	UNV	5 /FT	3.5" WIDE LINEAR COVE LIGHT FOR RESTROOM. CONTRACTOR TO VERIFY RUN LENGTHS
L	ALIGHT	D3-XX-LS-35-UNV-KS-XX-B-D	PENDANT	LED	3500K	414	UNV	5 /FT	3.5" WIDE LINEAR WALL WASH PENDANT. CONTRACTOR TO VERIFY RUN LENGTHS
P28	CAMMAN	P8800-24-LN-35K-CLV-MV-BA-STEM	PENDANT	LED	3500K	1450	UNV	20	4" WIDE 28" LONG DECORATIVE ACRYLIC PENDANT
P36	CAMMAN	P8800-36-LN-35K-CLV-MV-BA-STEM	PENDANT	LED	3500K	2300	UNV	30	4" WIDE 36" LONG DECORATIVE ACRYLIC PENDANT
P40	CAMMAN	P874340	PENDANT	LED	3500K	4475	UNV	73	6" WIDE 40" LONG DECORATIVE ACRYLIC PENDANT
P60	CAMMAN	P8800-60-LN-35K-CLV-MV-BA-STEM	PENDANT	LED	3500K	4400	UNV	50	4" WIDE 60" LONG DECORATIVE ACRYLIC PENDANT
S	WAC LIGHTING	PD-29803-AL	PENDANT	LED	3000K	4938	UNV	42	DECORATIVE CHANDELIER WITH 3 BARS
S2	HERMES	MIR-31-SBC	PENDANT	LED	3000K	-	UNV	-	DECORATIVE CHANDELIER
V	WAC LIGHTING	WS-99830-CH	VANITY	LED	3000K	2583	120	28	BATHROOM VANITY
X	EATON - SURELITES	EUX7	SURFACE	LED	-	-	UNV	-	UNIVERSAL EDGE LIT EXIT SIGN

⚠1

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE	MANUF.	CATALOG No.	MOUNTING			VOLTAGE	INPUT W	DESCRIPTION
				TYPE	COLOR			
1AA	EATON - MCGRAW EDISON	GLEON-AF-04-LED-E1-T4W-XX	POLE	LED	4000K	UNV	225	4 SQUARE GALLEON SITE LIGHT WITH TYPE 4 LIGHT DISTRIBUTION
4AA	EATON - MCGRAW EDISON	GLEON-AF-04-LED-E1-T4W-XX	POLE	LED	4000K	UNV	(4) 225	4 SQUARE GALLEON SITE LIGHT WITH TYPE 4 LIGHT DISTRIBUTION
EG	LIGMAN	UVA-20001-39W-W40-XX-120/277	POLE	LED	4000K	UNV	39	DECORATIVE AREA LIGHT
EJ	EATON - PORTFOLIO	LD8B-60-D010-4000-ER8B-5070-8040-8LB-M-2-H-HSA8-LGSKT81P65	RECESSED	LED	4000K	UNV	40	CANOPY LIGHT
EK	LIGMAN	UKI-60731-M-W40-120/277	GROUND	LED	4000K	UNV	12	INGRADE UPLIGHT
WW	EATON - MCGRAW EDISON	GWC-AF-01-LED-E1-T2	MOUNTED	LED	4000K	UNV	59	WALL PACK

⚠1

ELECTRICAL GENERAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	POWER			FIRE ALARM	
	DUPLEX RECEPTACLE - 20A/125V/1P/3W/G	15" AFF	F	FIRE ALARM VOICE EVACUATION SPEAKER.	-
	DUPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; C = CEILING MOUNTED.	15" AFF	F	FIRE ALARM PULL STATION	48" AFF
	DUPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH ISOLATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	15" AFF	F	FIRE ALARM AUDIBLE/VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	QUADPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; CLG = CEILING MOUNTED.	AS REQD.	F	FIRE ALARM AUDIBLE SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	QUADPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH INSULATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	AS REQD.	F	FIRE ALARM VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	AS REQD.			
	SPECIAL PURPOSE RECEPTACLE; MOTOR OR EQUIPMENT CONNECTION	AS REQD.			
J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	15" AFF	FS	FIRE ALARM SPRINKLER FLOW SWITCH	-
			TS	FIRE ALARM SPRINKLER TAMPER SWITCH	-
			S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
			H	HEAT DETECTOR CEILING OR WALL MOUNTED	-
			D	DUCT SMOKE DETECTOR	AS REQD.
			FACP	FIRE ALARM CONTROL PANEL	AS REQD.
			FAAP	FIRE ALARM ANNUNCIATOR PANEL	AS REQD.
30/-/3	DISCONNECT SWITCH - 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.	FAEP	FIRE ALARM EXTENDING PANEL	AS REQD.
CB 30/3	CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCL; AMPS/POLES AS INDICATED	AS REQD.	VAFP	VOICE ACTIVATED FIRE ALARM PANEL	80" AFF
30/30/3	DISCONNECT SWITCH - 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.	$	SWITCH	
2	MOTOR STARTER FVNR UNO; NUMBER INDICATES NEMA SIZE	AS REQD.	$3	3 WAY LIGHT SWITCH	
CB	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.			
	PANELBOARD	-			
	MOTOR	-			
~	SINGLE LINE CONTINUATION	-			
GAAP	GENERATOR ANNUNCIATOR PANEL	-			
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-			
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	-			
	TRANSFORMER	-			

GENERAL ABBREVIATIONS

ABS	ABOVE BACK SPLASH	NC (N.C.)	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NF	NONFUSED
BFC	BELOW FINISHED CEILING	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
CB	CIRCUIT BREAKER	NO (N.O.)	NORMALLY OPEN
CLG	CEILING	PNL	PANEL
EC	EMPTY CONDUIT	RCPT(S)	RECEPTACLE(S)
EP	ELECTRICAL PRIMARY	SO (S.O.)	SPACE ONLY
EX	EXISTING	SP	SPARE
F	FUSE	SPD	SURGE PROTECTION DEVICE
G	GROUND (EQUIPMENT)	ST (S.T.)	SHUNT TRIP
GFI	GROUND FAULT INTERRUPTER	SW	SWITCH
HCC	HORIZONTAL CROSS CONNECT	TYP	TYPICAL
IC	INTERRUPTING CAPACITY	UF	UNDERFLOOR
ICC	INTERMEDIATE CROSS CONNECT	UG	UNDERGROUND
IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
MTD	MOUNT OR MOUNTED	WG	WIRE GUARD
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE; 15" AFF INDICATES TO BOTTOM OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

GIGNAC | ARCHITECTS
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
T 361.884.2661
F 361.884.4232

222 E. VAN BUREN, SUITE 102
HARLINGEN, TEXAS 78550
T 956.365.4820
F 956.365.4822

CONSULTANTS
CIVIL:
MELDEN & HUNT ENGINEERING
STRUCTURAL:
GREEN RUBIANO & ASSOCIATES
MEP:
SIGMA ENGINEERING

REGION ONE EDUCATION SERVICE CENTER - EDINBURG ADDITIONS
1900 W. SCHUNIOR
EDINBURG, TEXAS 78541

PLAN NORTH
TRUE NORTH

Project Number: 18017
Drawing Date: 03/18/19
Drawn: Author
Checked: Checker

Revisions:

No.	Description	Date

Sheet Title:
LIGHT FIXTURE SCHEDULE & ELECTRICAL GENERAL LEGEND

E-300

C:\Users\SigmaHNe_KA\Desktop\REVIT\REGION ONE\Region One Edinburg\KA-Region One Edinburg.rvt
12/21/2018 1:32:04 PM