

1801 South 2nd Street, Ste. 330 McAllen, TX 78503

## Addendum No. 2

DATE:	Monday, June 24, 2019
PROJECT:	City of Pharr/PSJA Aquatic Facility
PROJECT NO:	971805/ 1819-35-510-C011-051
LOCATION:	3001 N. Cage Blvd., Pharr, Texas 78577
FROM:	Laura N. Warren, The Warren Group Architects, Inc.

The following revisions and clarifications shall be considered part of the record contract documents dated June 7, 2019 for the above referenced project and included in the contract amount. All general notes and specifications shall apply to this addendum. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence.

The following scope adjustments have been made. Please adjust bids with the following noted changes:

## **Specifications**

Item No. 1: Refer to Project Manual dated June 7, 2019. Spec Section 07 84 01 ADD2 – Firestopping dated June 21, 2019 has been added. Insert this section.

## <u>Drawings</u>

- Item No. 2: Refer to Construction Documents dated June 7, 2019. STRL General Notes has additional information included. Refer to 30x42 sheet S101 dated 6/21/2019.
- Item No. 3: Refer to Construction Documents dated June 7, 2019. STRL Column Layout Plan has new modifications including concrete slab for heavy air handling units. Refer to 30x42 sheet S204 dated 6/21/2019.
- Item No. 4: Refer to Construction Documents dated June 7, 2019. STRL Misc Structures has additional information including mechanical pad section. Refer to 30x42 sheet \$205 dated 6/21/2019.
- Item No. 5: Refer to Construction Documents dated June 7, 2019. STRL Foundation Details has additional information including stair reinforcing and flag pole pier schedule for 45 ft flags. Refer to 30x42 sheet \$432 dated 6/21/2019.

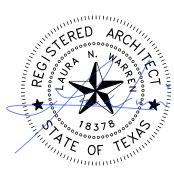
- Item No. 6: Refer to Construction Documents dated June 7, 2019. STRL Hollow Core Plank Details has additional information included. Refer to 30x42 sheet \$434 dated 6/21/2019.
- Item No. 7: Refer to Construction Documents dated June 7, 2019. STRL Steel Framing Details has additional information included. Refer to 30x42 sheet \$432 dated 6/21/2019.
- Item No. 8: Refer to Construction Documents dated June 7, 2019. STRL Typical Details has additional information included. Refer to 30x42 sheet S453 dated 6/21/2019.
- Item No. 9: Refer to Construction Documents dated June 7, 2019. STRL Truss Details has additional information included. Refer to 30x42 sheet S552 dated 6/21/2019.
- Item No. 10: Refer to Construction Documents dated June 7, 2019. STRL Steel Framing Details has additional information included. Refer to 30x42 sheet \$432 dated 6/21/2019.
- Item No. 11: Refer to Construction Documents dated June 7, 2019. STRL Building Sections has additional information included. Refer to 30x42 sheet \$605 dated 6/21/2019.
- Item No. 12: Refer to Construction Documents dated June 7, 2019. In response to RFI, sizing of monument sign letters has been provided. Refer to 30x42 sheet A1.02 ADD2 dated 6/21/2019.
- Item No. 13: Refer to Construction Documents dated June 7, 2019. In response to RFI, Plaque design has been provided. Plan details have been referenced. Refer to 30x42 sheet A1.11A ADD2 dated 6/21/2019.
- Item No. 14: Refer to Construction Documents dated June 7, 2019. Plan details have been referenced. Refer to 30x42 sheets A1.11B and A1.11C ADD2 dated 6/21/2019.
- Item No. 15: Refer to Construction Documents dated June 7, 2019. Additional information has been provided. Refer to 30x42 sheet A1.12 ADD2 dated 6/21/2019.
- Item No. 16: Refer to Construction Documents dated June 7, 2019. Additional information has been provided. Refer to 30x42 sheet A1.21A ADD2 dated 6/21/2019.
- Item No. 17: Refer to Construction Documents dated June 7, 2019. Roof Plan has been modified and additional information has been provided. Refer to 30x42 sheet A1.31 ADD2 dated 6/21/2019.
- Item No. 18: Refer to Construction Documents dated June 7, 2019. Flooring at Administration area has been revised. Refer to 30x42 sheet A1.41 ADD2 dated 6/21/2019.
- Item No. 19: Refer to Construction Documents dated June 7, 2019. Accent wall plan has been modified and additional information has been provided. Refer to 30x42 sheet A1.42 ADD2 dated 6/21/2019.
- Item No. 20: Refer to Construction Documents dated June 7, 2019. Information has been corrected. Refer to 30x42 sheet A2.11 ADD2 dated 6/21/2019.
- Item No. 21: Refer to Construction Documents dated June 7, 2019. Additional information has been provided. Refer to 30x42 sheet A2.12 ADD2 dated 6/21/2019.

- Item No. 22: Refer to Construction Documents dated June 7, 2019. Additional sheet has been created. Refer to 30x42 sheet A2.13 ADD2 dated 6/21/2019.
- Item No. 23: Refer to Construction Documents dated June 7, 2019. Correct building heights have been noted. Refer to 30x42 sheet A3.01 ADD2 dated 6/21/2019.
- Item No. 24: Refer to Construction Documents dated June 7, 2019. Section detail has been referenced. Refer to 30x42 sheet A3.02 ADD2 dated 6/21/2019.
- Item No. 25: Refer to Construction Documents dated June 7, 2019. Wall Sections have been provided. Refer to 30x42 sheets A3.11, A3.12, A3.13 and A3.14 ADD2 dated 6/21/2019.
- Item No. 26: Refer to Construction Documents dated June 7, 2019. Parapet details have been provided. Refer to 30x42 sheet A3.15 ADD2 dated 6/21/2019.
- Item No. 27: Refer to Construction Documents dated June 7, 2019. Additional information has been provided. Refer to 30x42 sheets A4.11 and A4.12 ADD2 dated 6/21/2019.
- Item No. 28: Refer to Construction Documents dated June 7, 2019. Additional sheet has been created. Refer to 30x42 sheet A4.13 ADD2 dated 6/21/2019.
- Item No. 29: Refer to Construction Documents dated June 7, 2019. Additional information has been created. Refer to 30x42 sheets A4.31, A4.32, and A4.33 ADD2 dated 6/21/2019.
- Item No. 30: Refer to Construction Documents dated June 7, 2019. Plan details have been provided. Refer to 30x42 sheet A5.11 ADD2 dated 6/21/2019.
- Item No. 31: Refer to Construction Documents dated June 7, 2019. Door and window details have been provided. Refer to 30x42 sheets A5.12, A5.13, and A5.14 ADD2 dated 6/21/2019.
- Item No. 32: Refer to Construction Documents dated June 7, 2019. Information has been corrected. Refer to 30x42 sheet A6.01 ADD2 dated 6/21/2019.
- Item No. 33: Refer to Construction Documents dated June 7, 2019. MEP Site Plan details have been modified. Refer to 30x42 sheet M1.00 ADD2 dated 6/21/2019.
- Item No. 34: Refer to Construction Documents dated June 7, 2019. MEP Mechanical Floor Plan has additional information included. Refer to 30x42 sheet M1.05 ADD2 dated 6/21/2019.
- Item No. 35: Refer to Construction Documents dated June 7, 2019. MEP Plumbing Site Plan has additional information included. Refer to 30x42 sheet P1.00 ADD2 dated 6/21/2019.
- Item No. 36: Refer to Construction Documents dated June 7, 2019. MEP Plumbing Sewer Floor Plan has additional information included. Refer to 30x42 sheet P1.01 ADD2 dated 6/21/2019.

- Item No. 37: Refer to Construction Documents dated June 7, 2019. MEP Plumbing HW/CW floor plan has additional information included. Refer to 30x42 sheet P1.02 ADD2 dated 6/21/2019.
- Item No. 38: Refer to Construction Documents dated June 7, 2019. MEP Plumbing Sewer Mezzanine Plan has additional information included. Refer to 30x42 sheet P1.03 ADD2 dated 6/21/2019.
- Item No. 39: Refer to Construction Documents dated June 7, 2019. MEP Plumbing HW/CW mezzanine plan has additional information included. Refer to 30x42 sheet P1.04 ADD2 dated 6/21/2019.
- Item No. 40: Refer to Construction Documents dated June 7, 2019. MEP Plumbing Roof plan has additional information included. Refer to 30x42 sheet P1.05 ADD2 dated 6/21/2019.
- Item No. 41: Refer to Construction Documents dated June 7, 2019. MEP Plumbing Schedules has additional information included. Refer to 30x42 sheet P2.00 ADD2 dated 6/21/2019.
- Item No. 42: Refer to Construction Documents dated June 7, 2019. MEP Plumbing Sewer Riser Diagram has additional information included. Refer to 30x42 sheet P2.01 ADD2 dated 6/21/2019.
- Item No. 43: Refer to Construction Documents dated June 7, 2019. MEP Plumbing Gas Riser Diagram has additional information included. Refer to 30x42 sheet P2.02 ADD2 dated 6/21/2019.

**ISSUED BY:** 

Laura N. Warren, AIA/Principal The Warren Group Architects, Inc.



Attachments:

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PDF Format – 8.5"x11" 07 84 01 ADD2 – Firestopping dated 6/21/2019.
PDF Format – 30"x42" $101 ADD 2 dated 06/21/2019
PDF Format – 30"x42" $204 ADD 2 dated 06/21/2019
PDF Format - 30"x42" $205 ADD 2 dated 06/21/2019
PDF Format - 30"x42" $432 ADD 2 dated 06/21/2019
PDF Format - 30"x42" $434 ADD 2 dated 06/21/2019
PDF Format - 30"x42" $452 ADD 2 dated 06/21/2019
PDF Format – 30"x42" $453 ADD 2 dated 06/21/2019
PDF Format - 30"x42" $552 ADD 2 dated 06/21/2019
PDF Format – 30"x42" $605 ADD 2 dated 06/21/2019
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PDF Format – 30"x42" P2.02 ADD 2 dated 06/21/2019
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### SECTION 07 84 01 FIRESTOPPING

PART 1 GENERAL

## 1.1 SUMMARY

A. Section includes firestopping and through-penetration protection system materials and accessories; firestopping tops of fire rated walls; and smoke sealing at joints between floor slabs and exterior walls.

## B. Related Sections:

- 1. Section 03470 Tilt-Up Precast Concrete.
- 2. Section 09260 Gypsum Board Assemblies: Gypsum board fireproofing.
- 3. Division 15 Mechanical: Mechanical work requiring firestopping.
- 4. Division 16 Electrical: Electrical work requiring firestopping.

## 1.2 REFERENCES

- A. ASTM E84 Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM E119 Method for Fire Tests of Building Construction and Materials.
- C. ASTM E814 Test Method of Fire Tests of Through Penetration Firestops.
- D. FM (Factory Mutual Engineering Corporation) Fire Hazard Classifications.
- E. UL (Underwriters Laboratories, Inc.) Fire Resistance Directory.
- F. UL 263 (Underwriters Laboratories, Inc.) Fire Tests of Building Construction and Materials.
- G. UL 723 (Underwriters Laboratories, Inc.) Test for Surface Burning Characteristics of Building Materials.
- H. UL 1479 (Underwriters Laboratories, Inc.) Fire Tests of Through-Penetration Firestops.
- I. WH (Warnock Hersey) Directory of Listed Products.

### 1.3 DEFINITIONS

A. Firestopping (Through-Penetration Protection System): Sealing or stuffing material or assembly placed in spaces between and penetrations through building materials to arrest movement of fire, smoke, heat, and

hot gases through fire rated construction.

#### 1.4 SYSTEM DESCRIPTION

- A. Firestopping Materials: ASTM E119, ASTM E814/UL 1479 to achieve fire ratings as noted on Drawings for adjacent construction, but not less than 2-hour fire rating.
  - 1. Ratings may be 3-hours for firestopping in through-penetrations of 4-hour fire rated assemblies unless otherwise required by applicable codes.
- B. Surface Burning: ASTM E84/UL 723 with maximum flame spread / smoke developed rating of 25/450.
- C. Firestop interruptions to fire rated assemblies, materials, and components.

#### 1.5 PERFORMANCE REQUIREMENTS

- A. Conform to FM, UL, WH for fire resistance ratings and surface burning characteristics.
- B. Provide certificate of compliance from authority having jurisdiction indicating approval of materials used.

#### 1.6 SUBMITTALS

- A. Section 01330 Submittal Procedures: Submittal procedures.
- B. Product Data: Submit data on product characteristics, performance and limitation criteria.
- C. Schedule: Submit schedule of opening locations and sizes, penetrating items, and required listed design numbers to seal openings to maintain fire resistance rating of adjacent assembly.
- D. Manufacturer's Installation Instructions: Submit preparation and installation instructions.
- E. Manufacturer's Certificate: Certify products meet or exceed specified requirements and applicable code requirements.
- F. Engineering Judgements: For conditions not covered by UL or WH listed designs, submit judgements by licensed professional engineer suitable for presentation to authority having jurisdiction for acceptance as meeting code fire protection requirements.

#### 1.7 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented

experience.

B. Applicator: Company specializing in performing Work of this section with minimum three years documented experience , and approved by manufacturer.

#### 1.8 MOCKUP

- A. Section 01 40 00 Quality Requirements: Requirements for mockup.
- B. Apply 1 linear ft of each type of linear firestopping material to representative substrate surface.
- C. Apply one of each unit type of firestopping material, such as penetrations through fire rated partition, to representative application.
- D. Locate where directed by Architect.
- E. Incorporate accepted mockup as part of Work.
- 1.9 ENVIRONMENTAL REQUIREMENTS
  - A. Section 01600 Product Requirements.
  - B. Do not apply materials when temperature of substrate material and ambient air is below 60 degrees F.
  - C. Maintain this minimum temperature before, during, and for minimum 3 days after installation of materials.
  - D. Provide ventilation in areas to receive solvent cured materials.

### PART 2PRODUCTS

- 2.1 FIRESTOPPING
  - A. Manufacturers:
    - 1. Tremco. Model Fyre-Sil S/L.
    - 2. Substitutions: Section 01600 Product Requirements.
  - B. Product Description: Different types of products by multiple manufacturers are acceptable as required to meet specified system description and performance requirements; provide only one type for each similar application.
    - 1. Silicone Firestopping Elastomeric Firestopping: Single component silicone elastomeric compound and compatible silicone sealant.
  - C. Color: Tremco Red.

### 2.2 ACCESSORIES

- A. Primer: Type recommended by firestopping manufacturer for specific substrate surfaces and suitable for required fire ratings.
- B. Dam Material: As required by manufacturer.
- C. Installation Accessories: Provide clips, collars, fasteners, temporary stops or dams, and other devices required to position and retain materials in place.

### PART 3 EXECUTION

- 3.1 EXAMINATION
  - A. Section 01300 Administrative Requirements: Coordination and project conditions.
  - B. Verify openings are ready to receive firestopping.
- 3.2 PREPARATION
  - A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter-affecting bond of firestopping material.
  - B. Remove incompatible materials affecting bond.
  - C. Install damming materials to arrest liquid material leakage.

#### 3.3 APPLICATION

- A. Install material at fire rated construction perimeters and openings containing penetrating sleeves, piping, ductwork, conduit and other items, requiring firestopping.
- B. Apply primer where recommended by manufacturer for type of firestopping material and substrate involved, and as required for compliance with required fire ratings.
- C. Apply firestopping material in sufficient thickness to achieve required fire and smoke rating, to uniform density and texture.
- D. Remove dam material after firestopping material has cured.

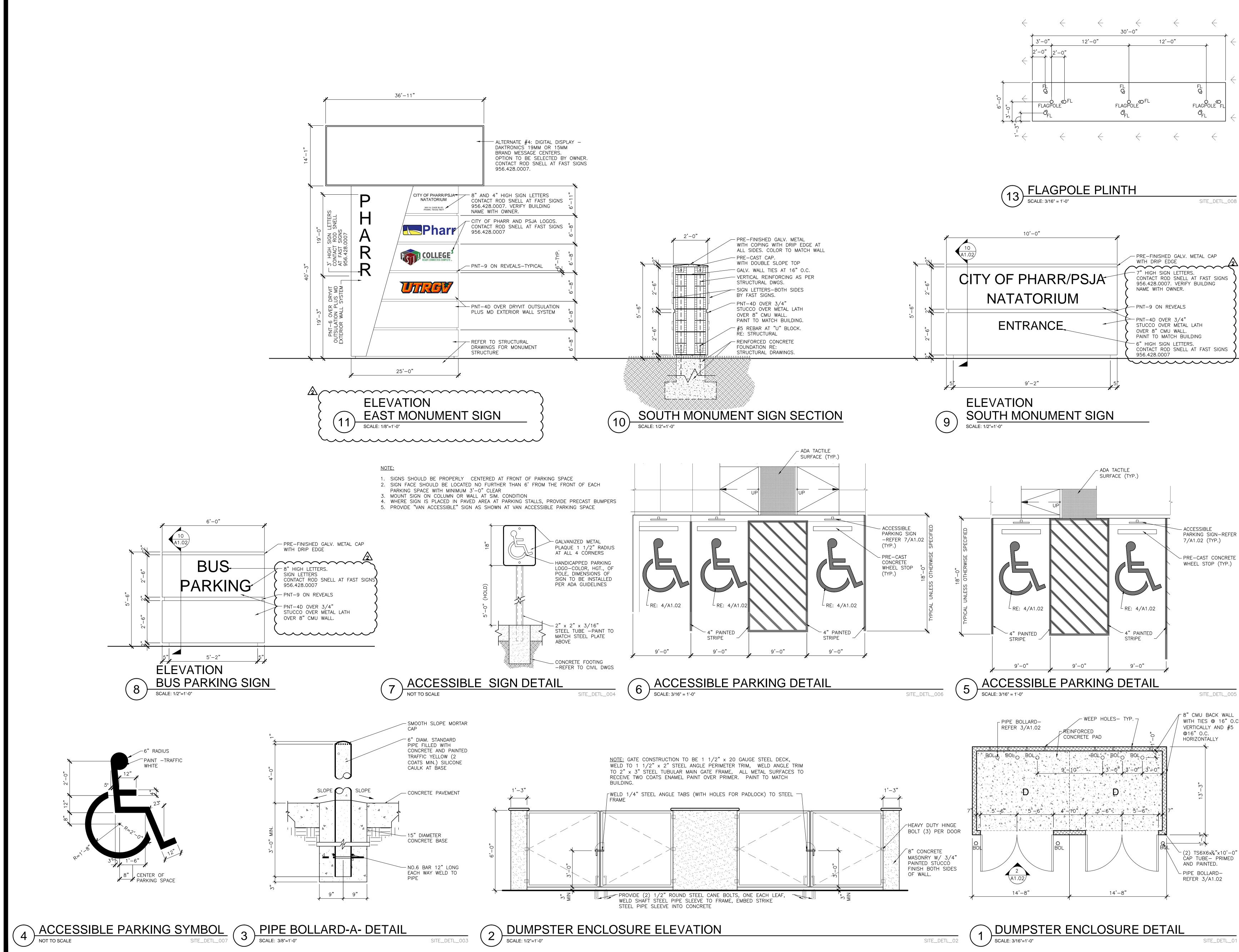
## 3.4 FIELD QUALITY CONTROL

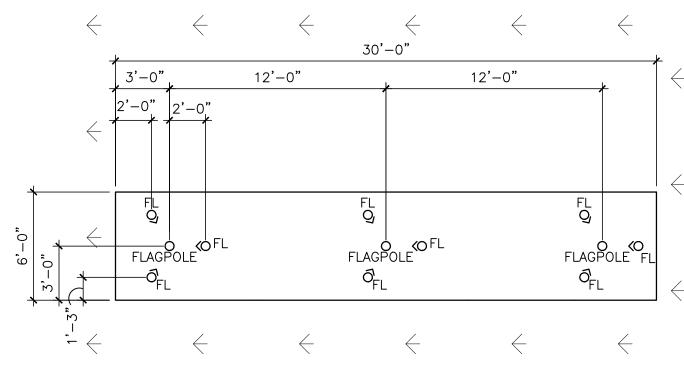
- A. Section 01400 Quality Requirements: Testing and Inspection Services.
- B. Inspect installed firestopping for compliance with specifications and submitted schedule.

## 3.5 CLEANING

- A. Section 01 70 00 Execution Requirements: Final cleaning.
- B. Clean adjacent surfaces of firestopping materials.
- 3.6 PROTECTION OF INSTALLED CONSTRUCTION
  - A. Section 01 70 00 Execution Requirements: Protecting installed construction.
  - B. Protect adjacent surfaces from damage by material installation.

END OF SECTION

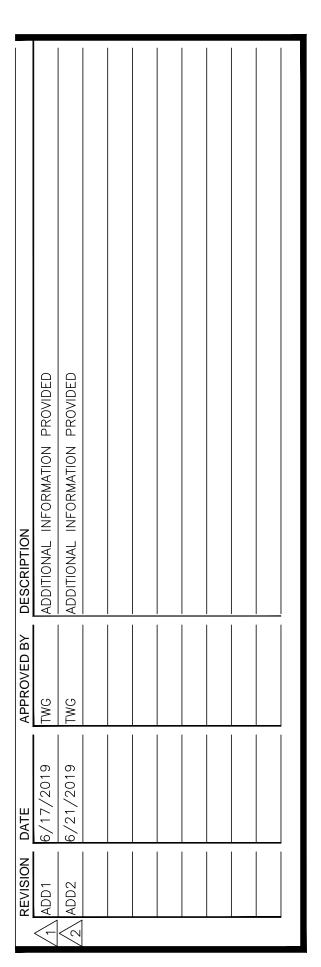


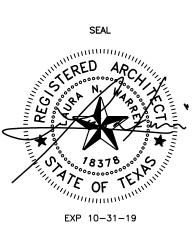






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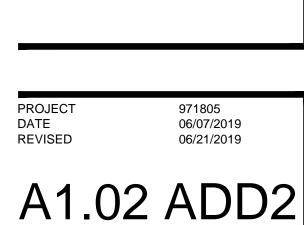


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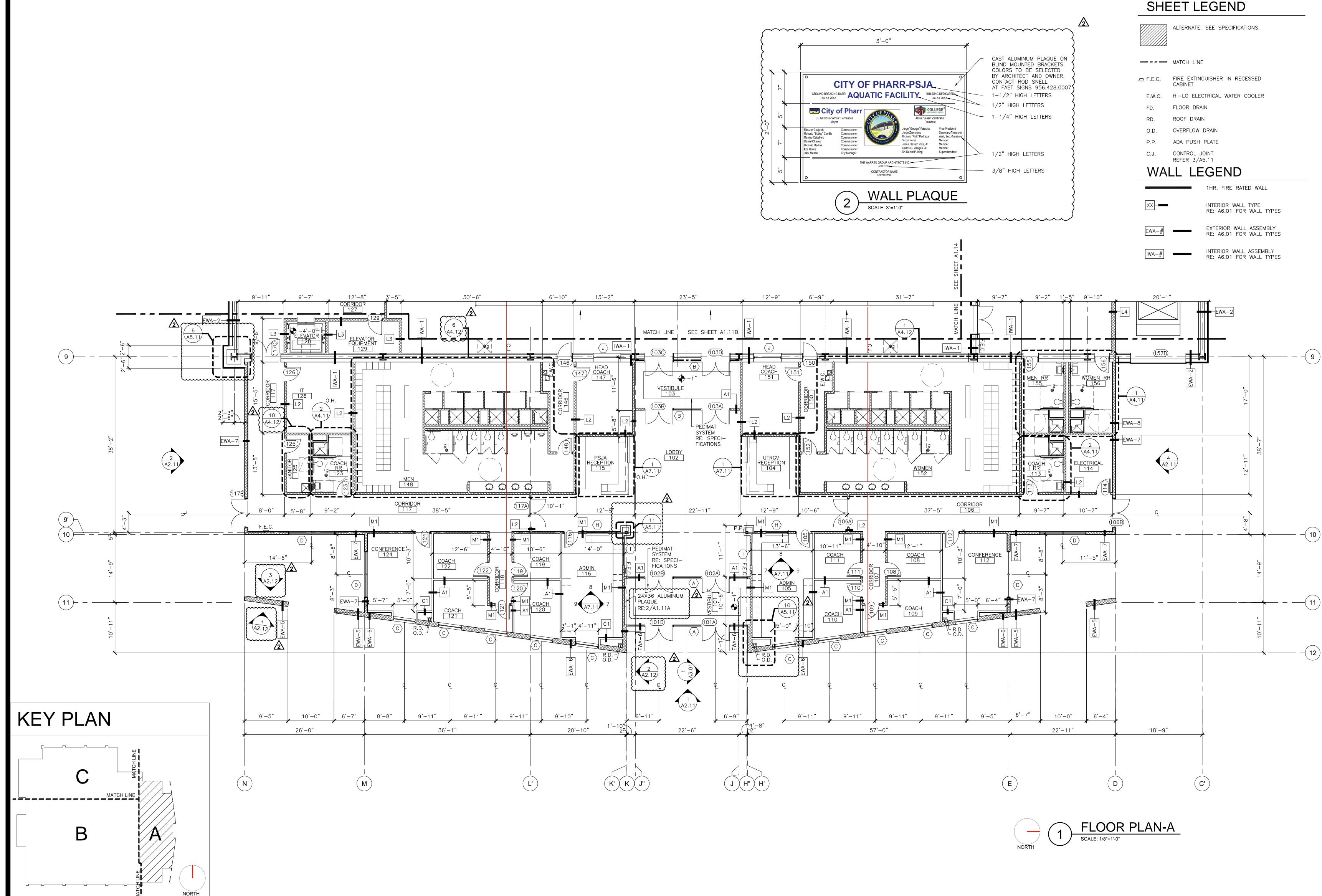
CITY OF PHARR/PSJA

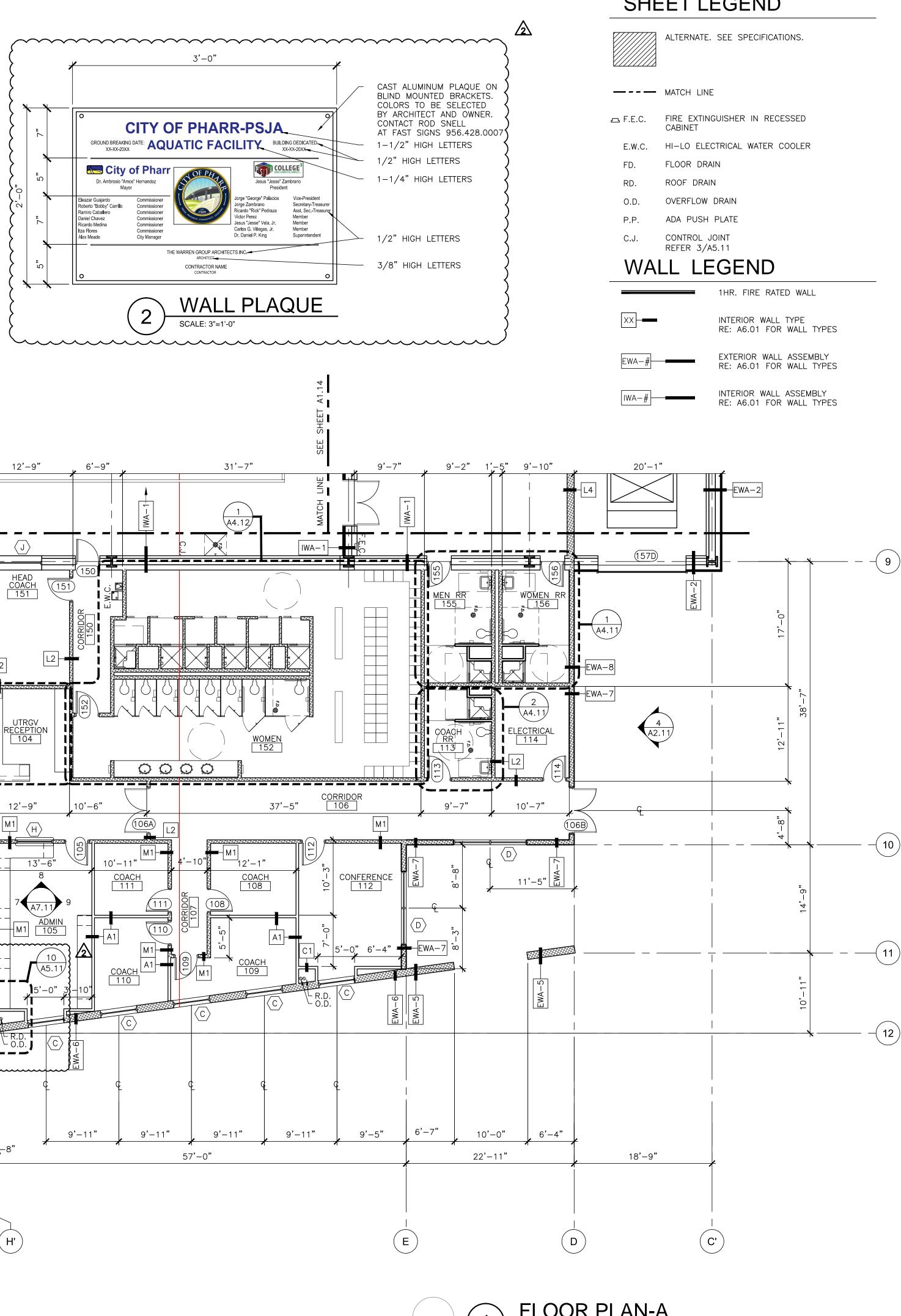
AQUATIC FACILITY

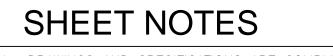
3001 N. CAGE BLVD PHARR, TEXAS 78577



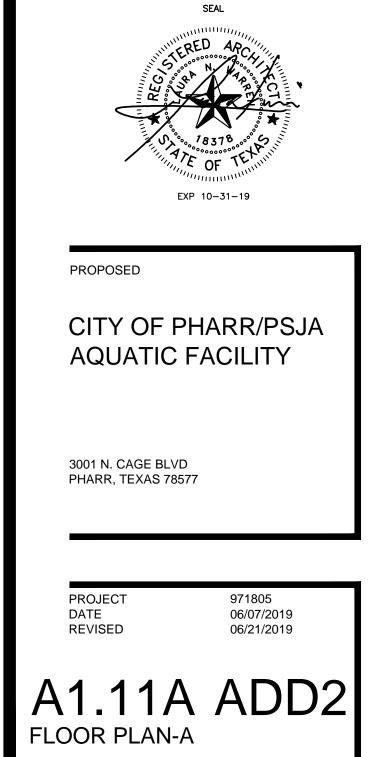
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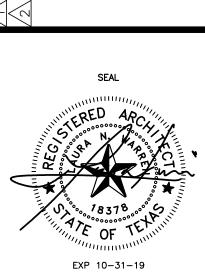






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- 2. DO NOT SCALE DRAWINGS. IF DIMENSIONAL INFORMATION IS REQUIRED AND NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- 3. ALL DOOR FRAMES ARE TO BE INSTALLED 4" MIN. AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS OTHERWISE NOTED.
- 4. REFER TO STRL DWGS FOR ADDITIONAL STRUCTURAL SPECIFIC INFORMATION.
- 5. REFER TO MEP DWGS FOR ADDITIONAL MEP SPECIFIC INFORMATION.
- 6. REFER TO POOL CONSULTANT DWGS FOR ADDITIONAL POOL SPECIFIC INFORMATION.
- 7. REFER TO ROOF PLAN FOR ROOF DRAIN LOCATIONS.
- 8. REFER TO GO.01 FOR KEYS AND SYMBOLS.





DESCRIPTION	ADDITIONAL INFORMATION PROVIDED	ADDITIONAL INFORMATION PROVIDED					
APPROVED BY DESCRIPTION	TWG	TWG					
DATE	6/17/2019	6/21/2019					
REVISION DATE	ADD1	ADD2					
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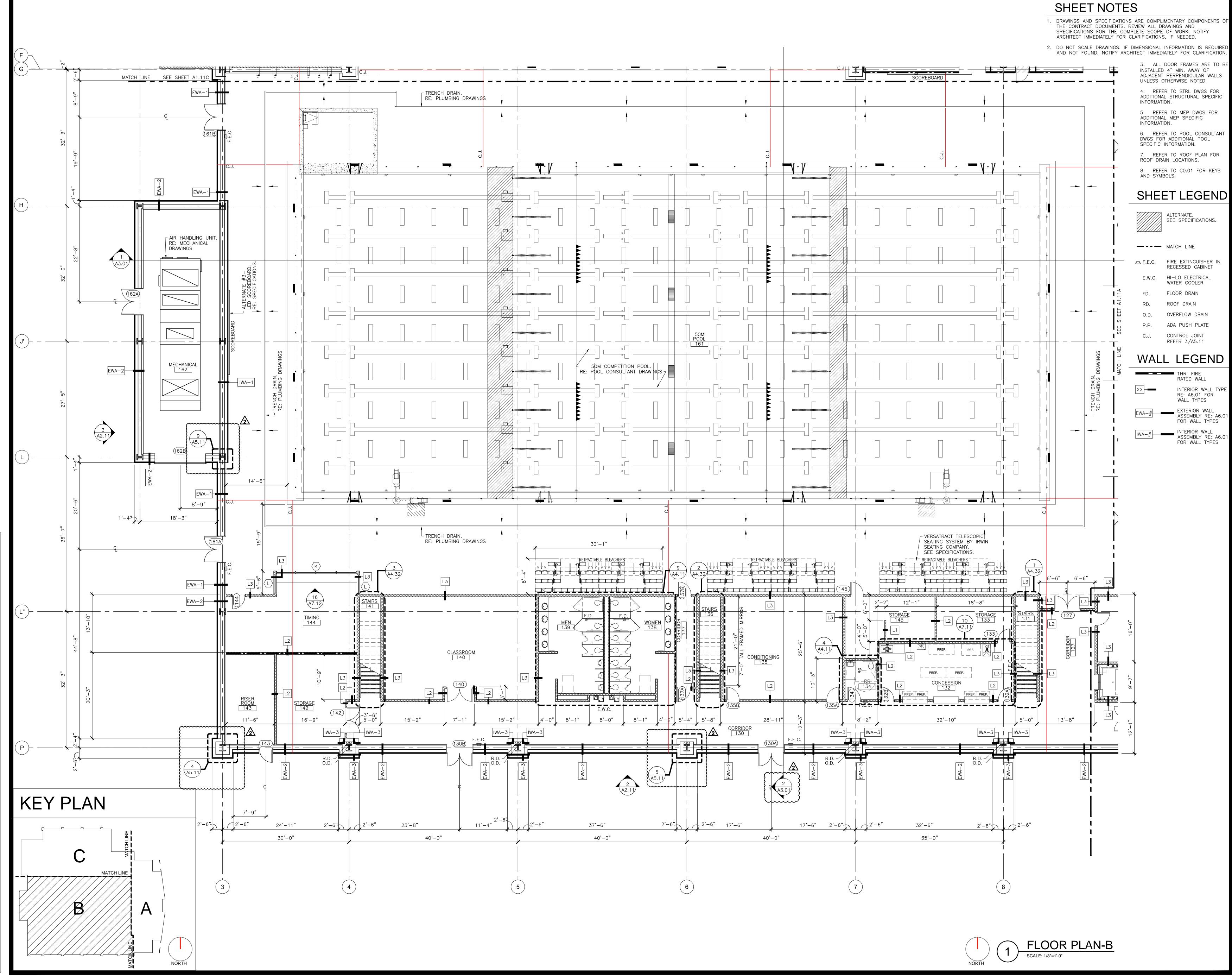
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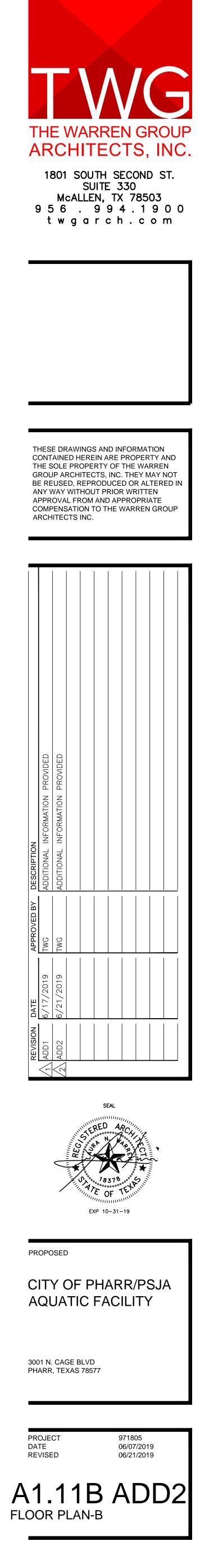


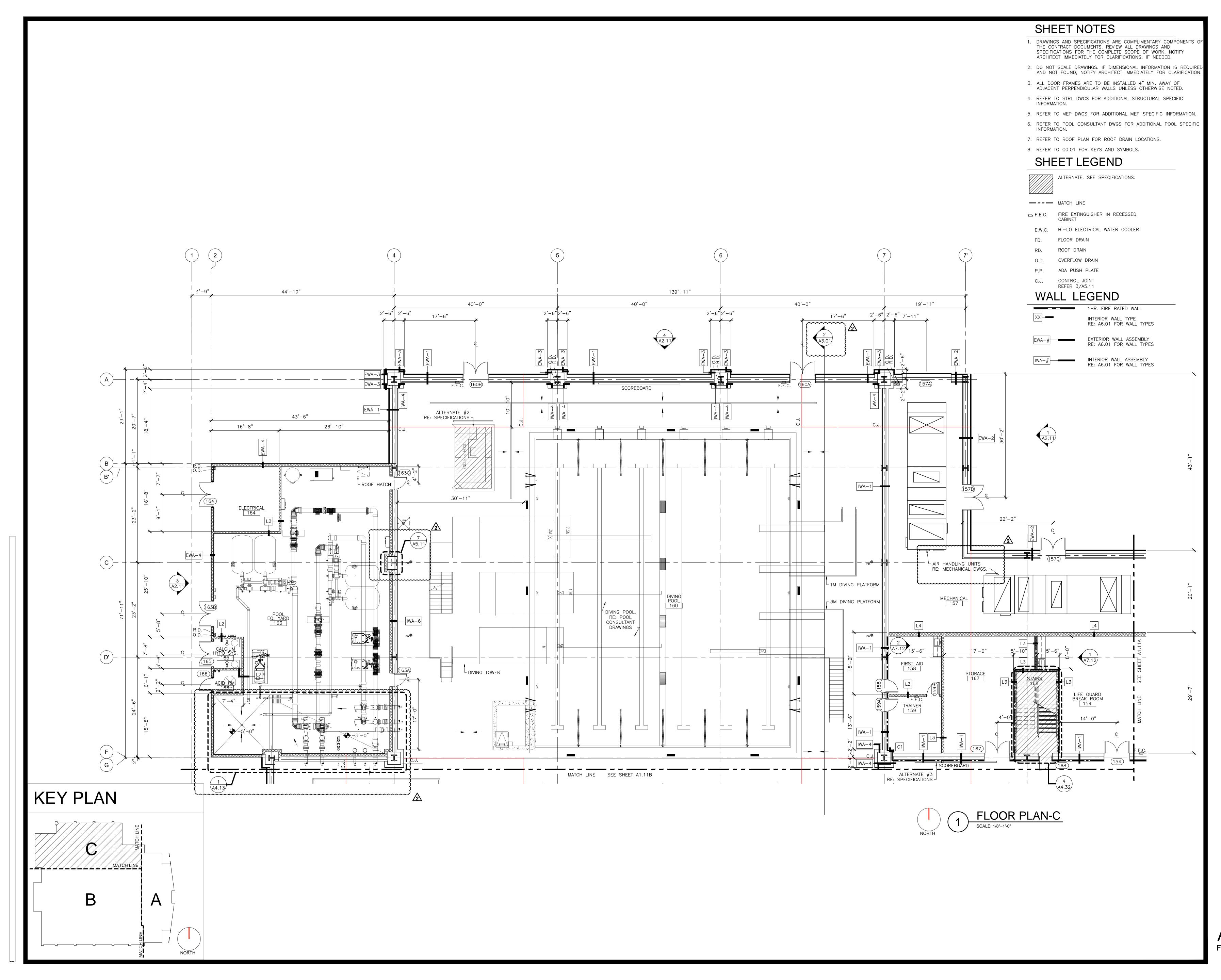
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McALLEN, TX 78503 956.994.1900

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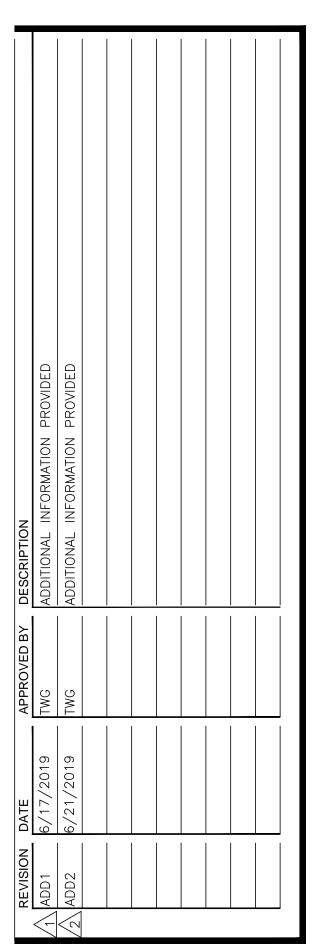


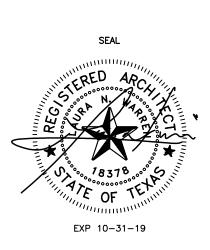






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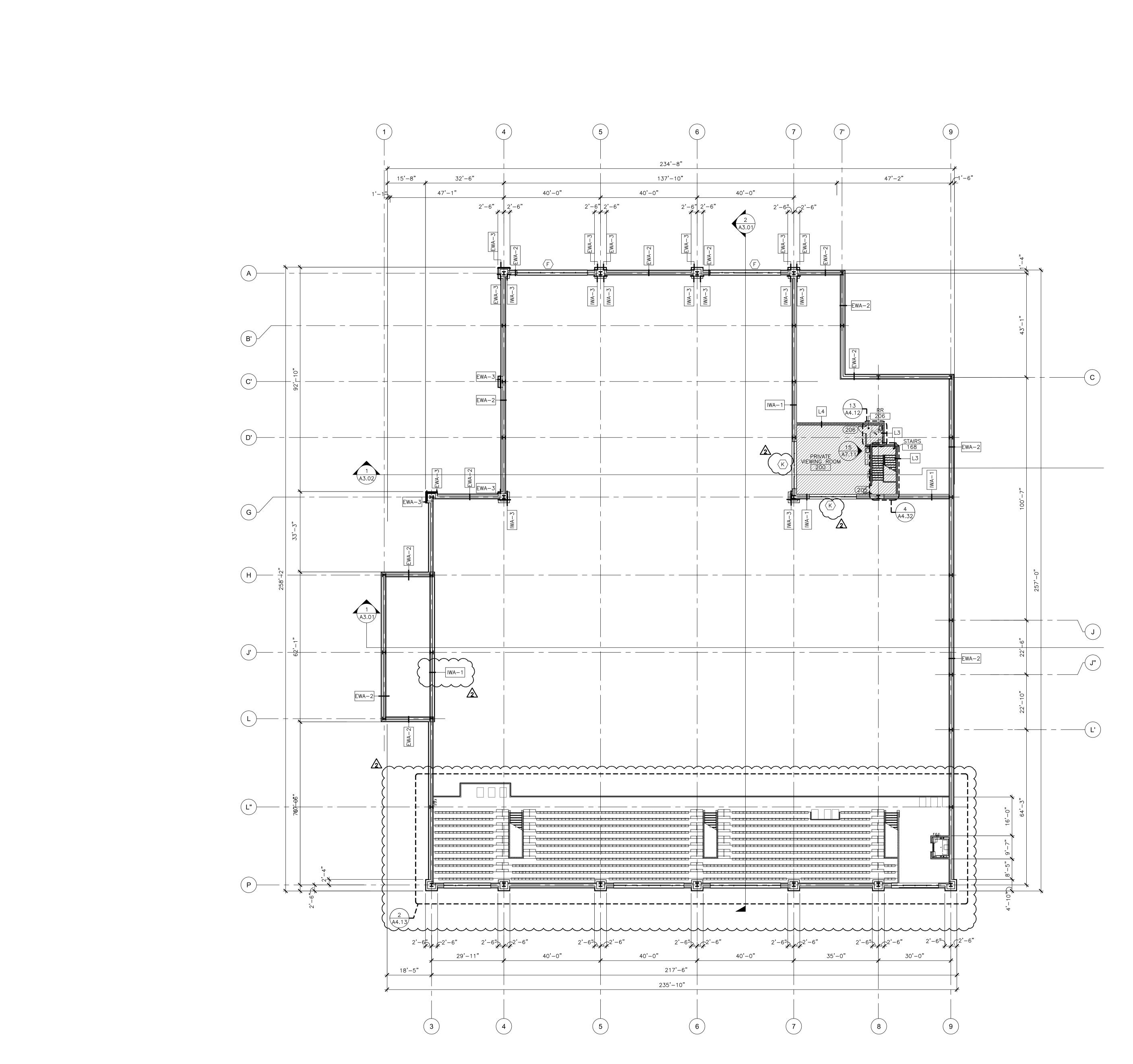
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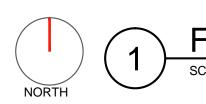
CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

PROJECT DATE REVISED A1.11C ADD2 FLOOR PLAN-C

971805 06/07/2019 06/21/2019





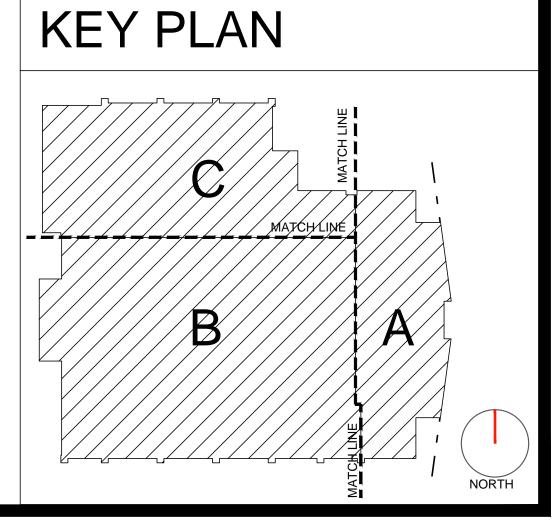
# ) FLOOR PLAN-SECOND FLOOR SCALE: 1/16"=1'-0"

## SHEET NOTES

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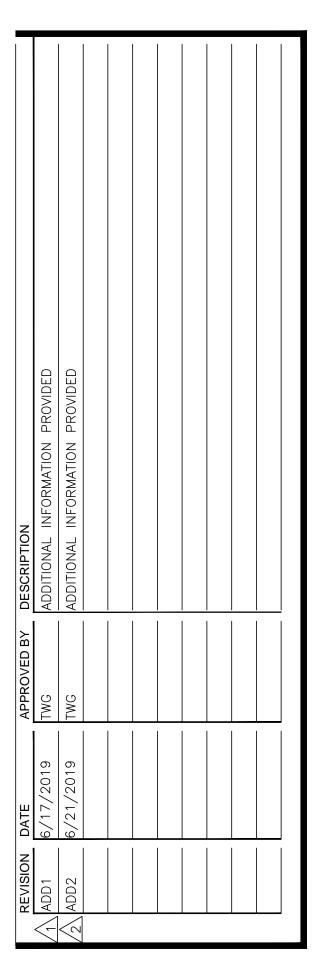
## SHEET LEGEND

		ALTERNATE. SEE SPECIFICATIONS.						
		MATCH LINE						
{		10"D X 18"W INFINITY SEATS IN COBALT BLUE, TREAD MOUNTED WITH GALVANIZED BRACKETS BY IRWIN SEATING COMPANY						
}	西 F.E.C.	FIRE EXTINGUISHER IN RECESSED						
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PROPOSED

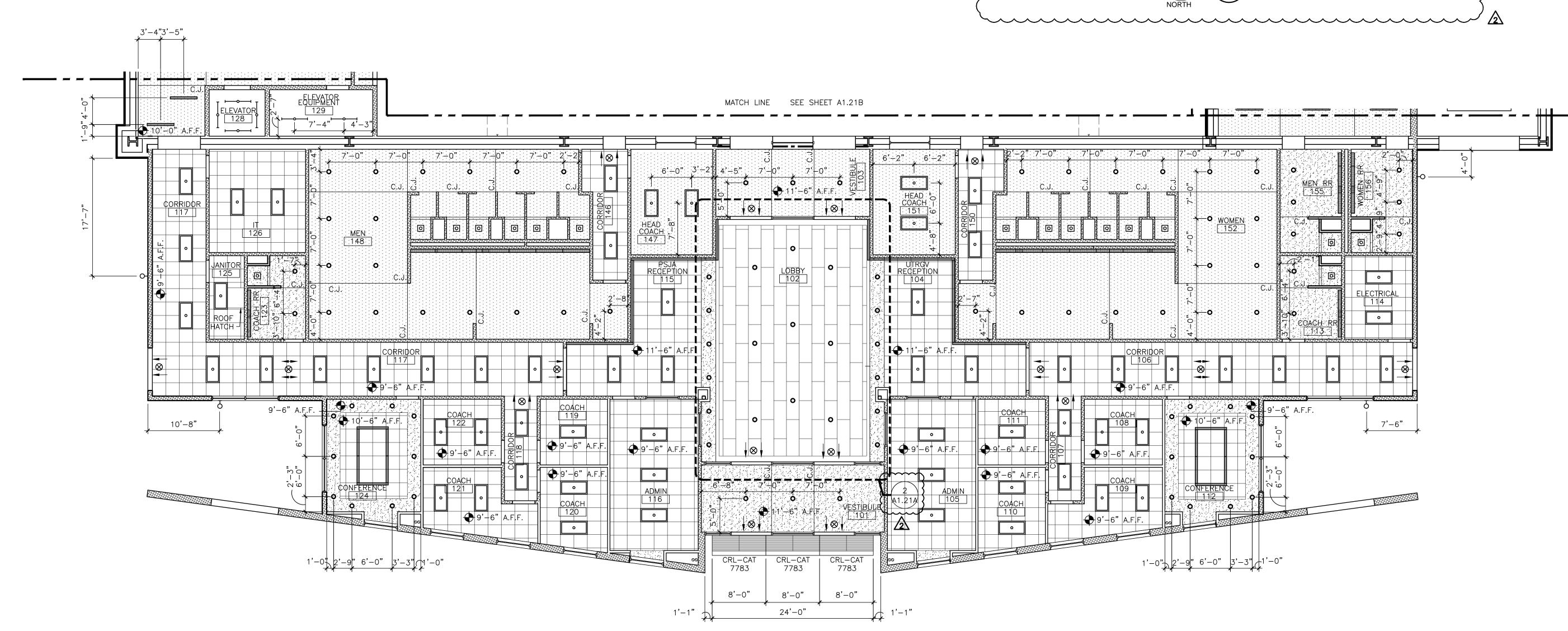
CITY OF PHARR/PSJA AQUATIC FACILITY

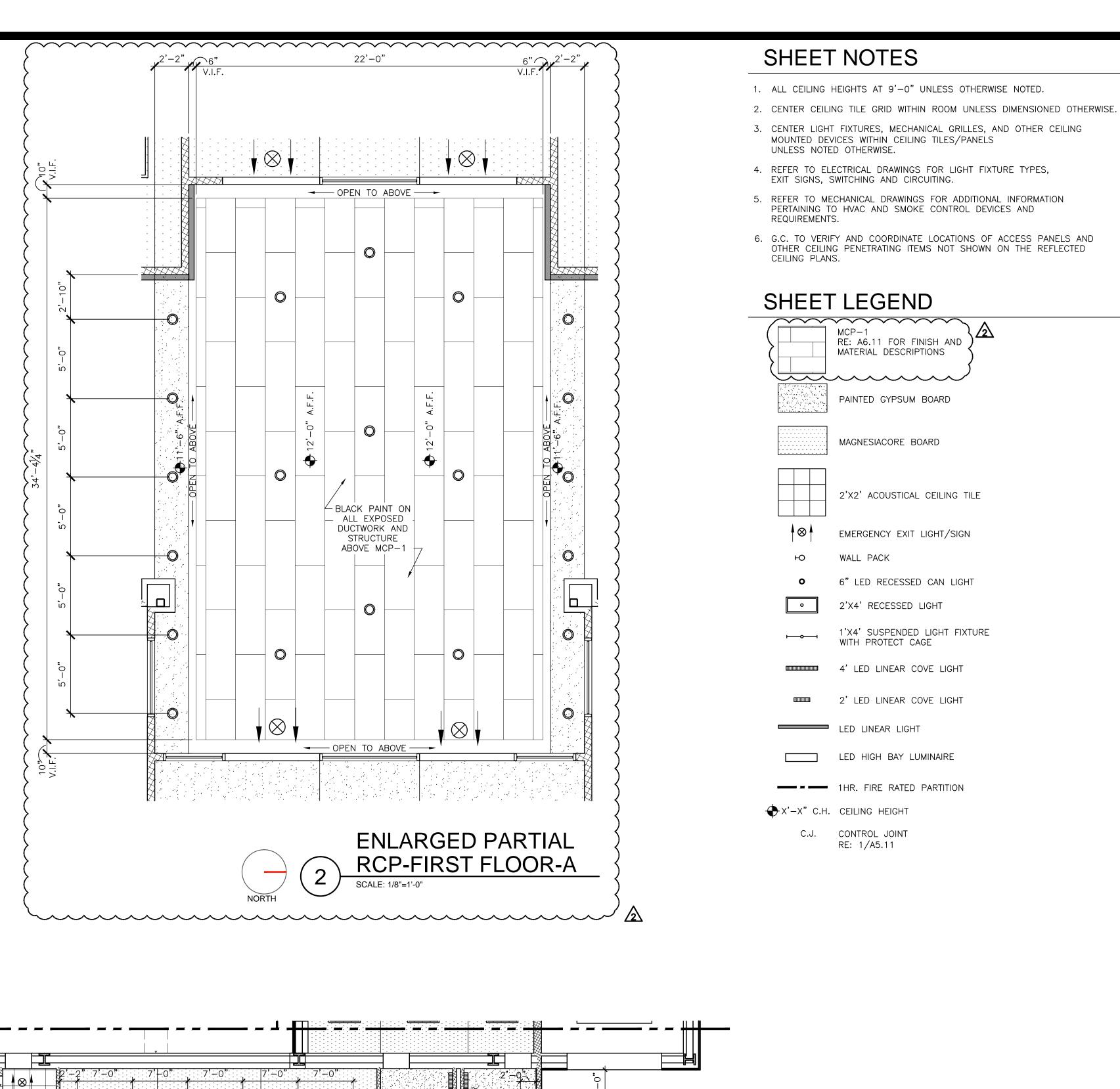
3001 N. CAGE BLVD PHARR, TEXAS 78577

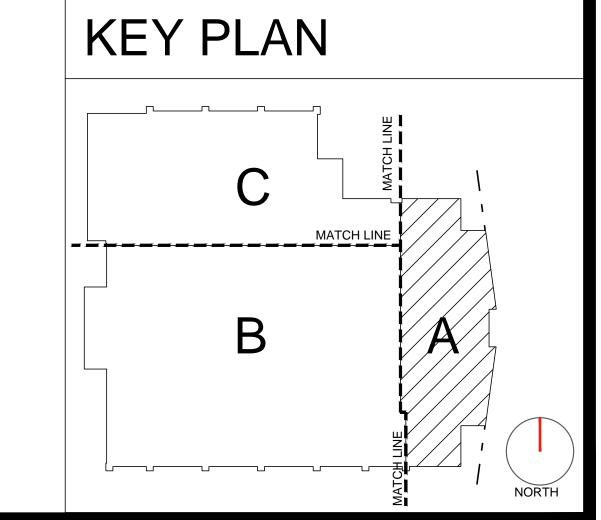
PROJECT DATE REVISED

971805 06/07/2019 06/21/2019

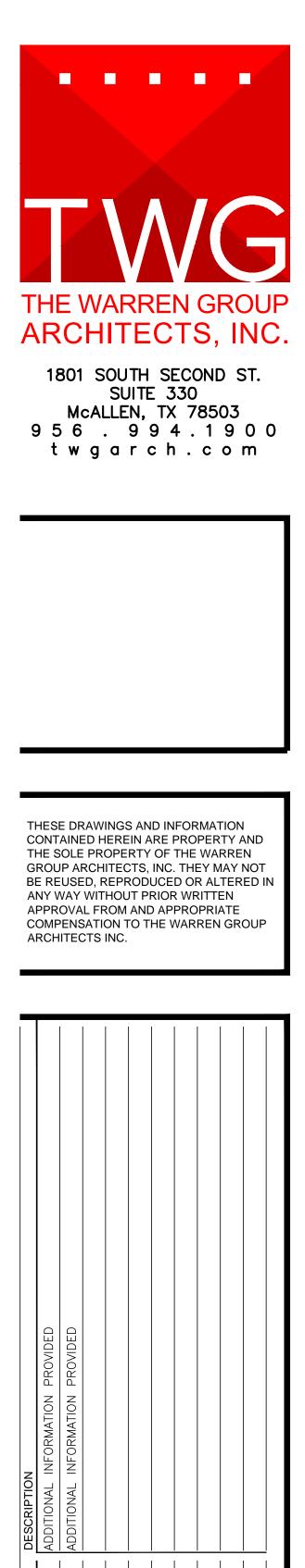
A1.12 ADD2 OVERALL FLOOR PLAN SECOND FLOOR

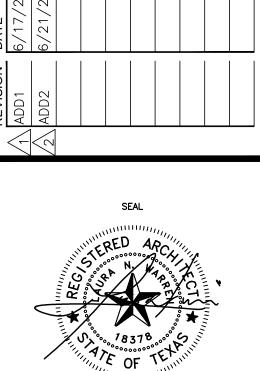






1) RCP-FIRST FLOOR-A SCALE: 1/8"=1'-0"



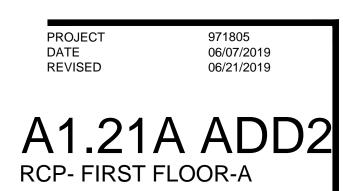


PROPOSED

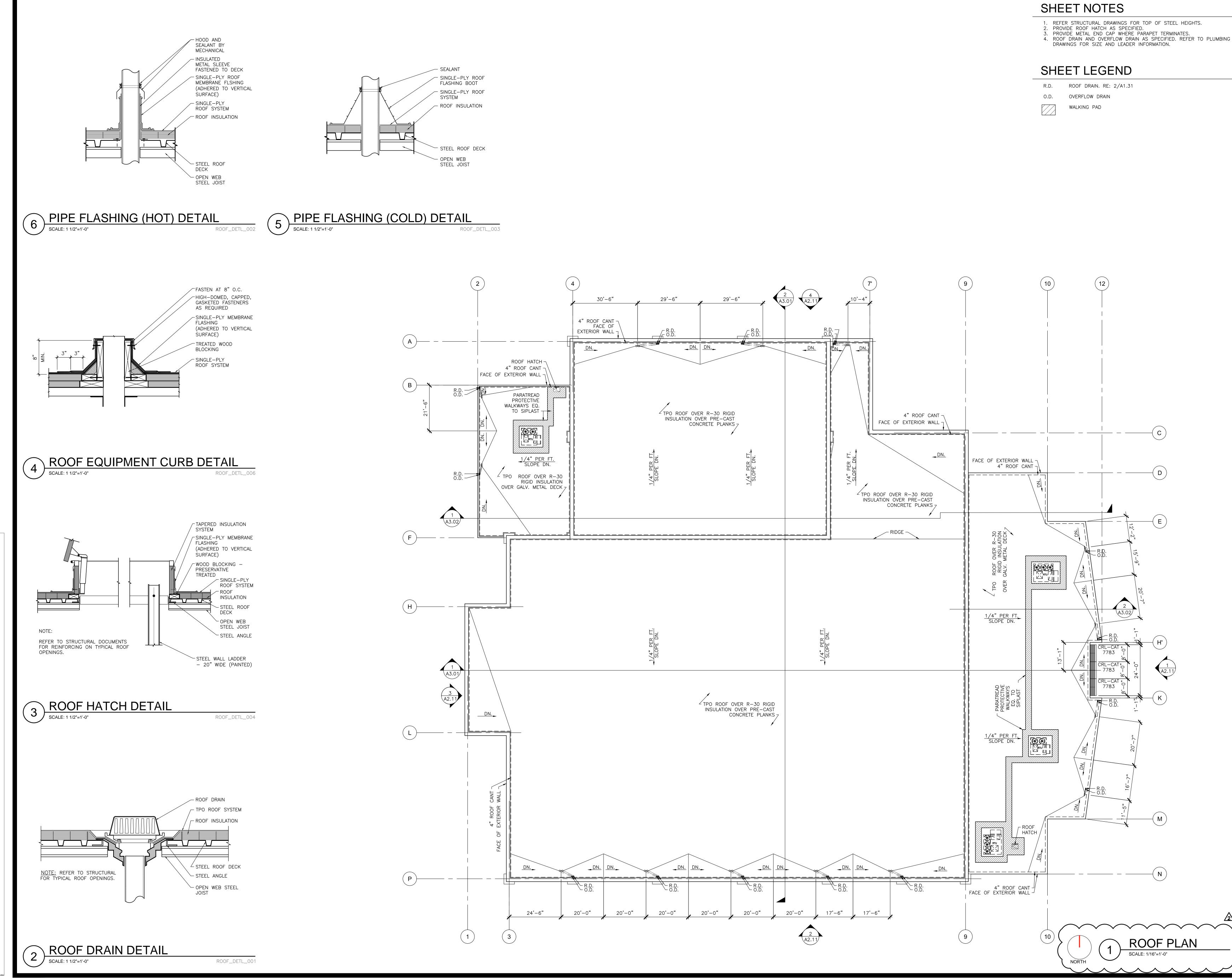
CITY OF PHARR/PSJA AQUATIC FACILITY

EXP 10-31-19

3001 N. CAGE BLVD PHARR, TEXAS 78577



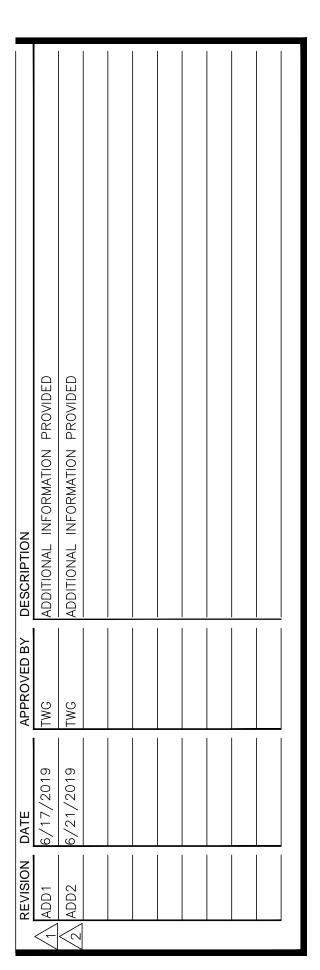
971805 06/07/2019 06/21/2019



R.D.	ROOF DI
0.D.	OVERFLC
	WALKING



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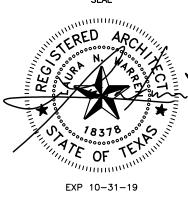


PROPOSED

PROJECT DATE

REVISED

ROOF PLAN



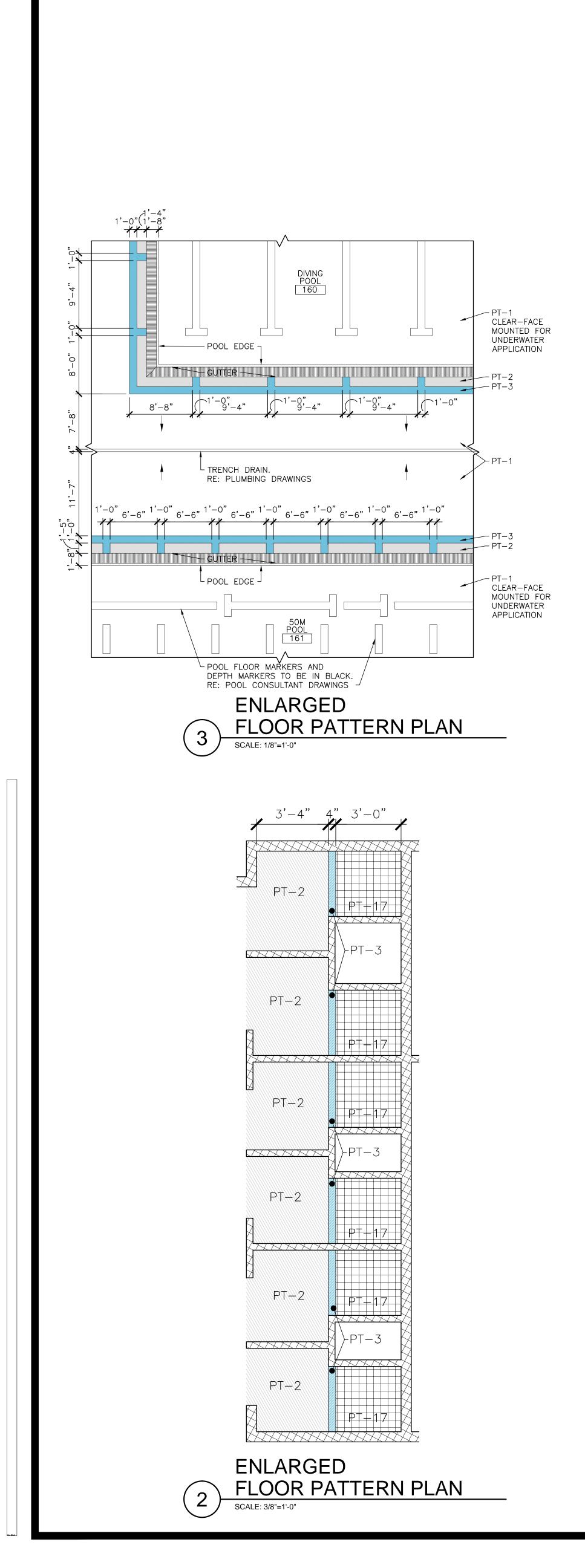
3001 N. CAGE BLVD PHARR, TEXAS 78577

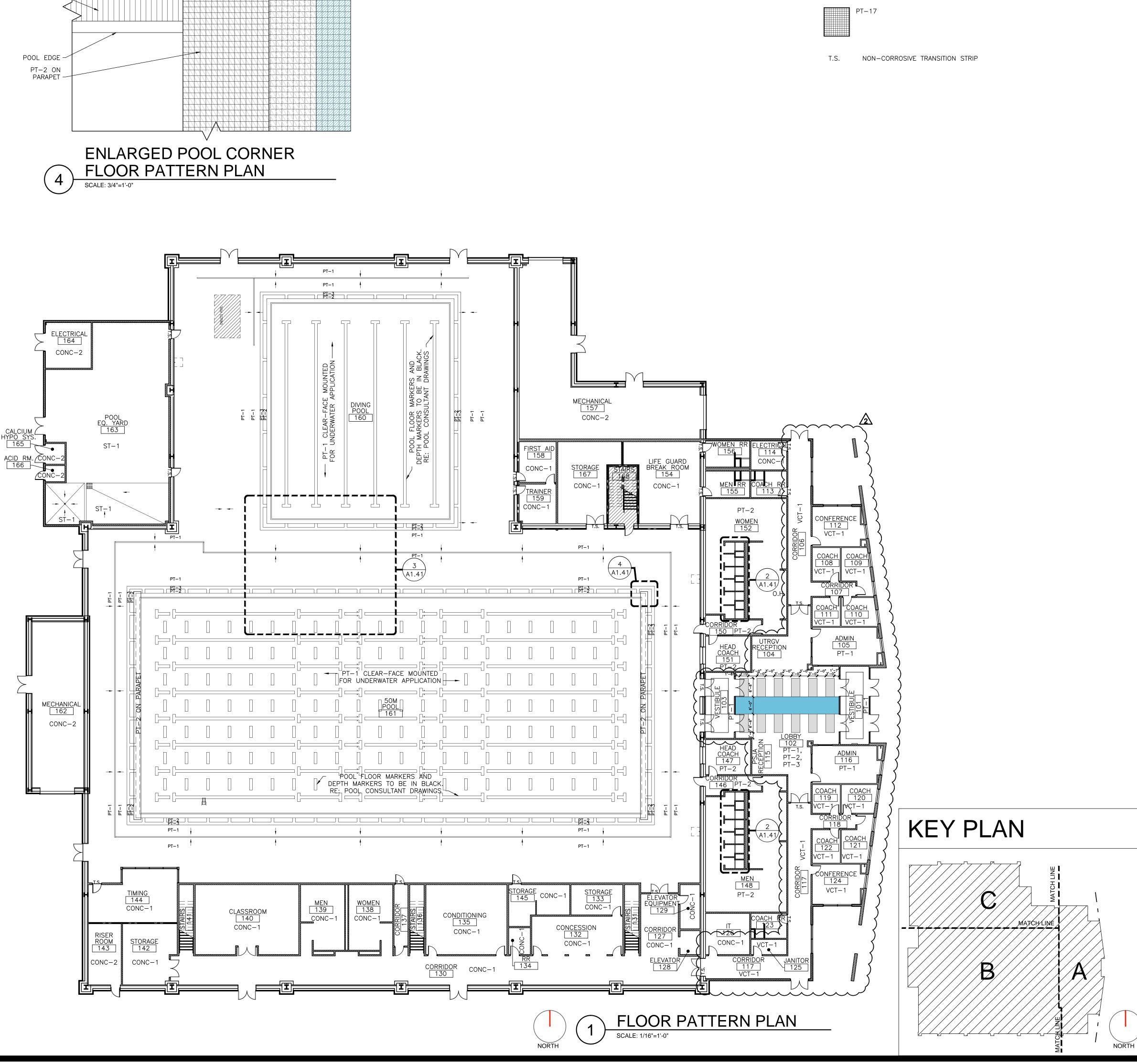
A1.31 ADD2

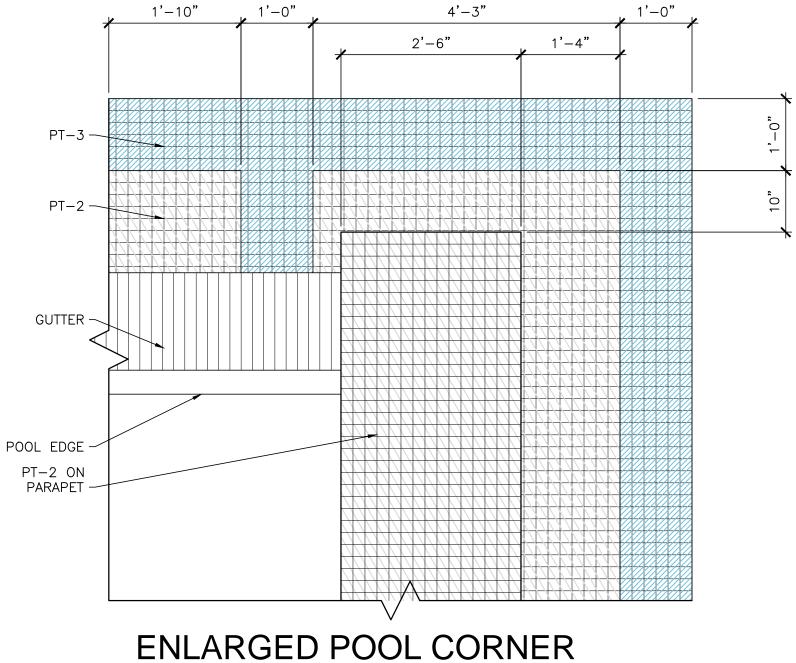
971805 06/07/2019

06/21/2019

CITY OF PHARR/PSJA AQUATIC FACILITY



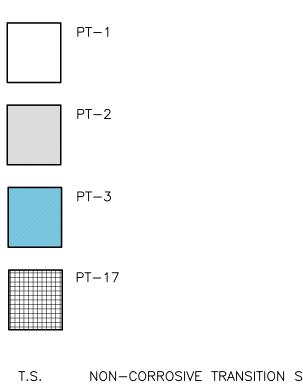




## SHEET NOTES

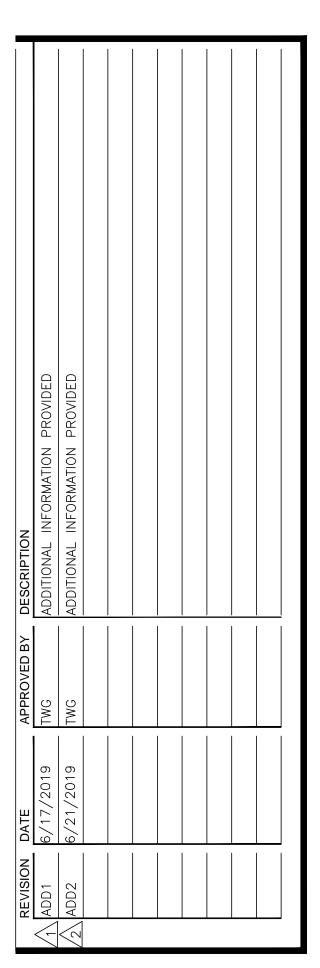
- 1. FLOOR PATTERNS SUBJECT TO OWNER APPROVAL PRIOR TO INSTALLATION.
- 2. G.C. TO COORDINATE WITH MILLWORK INSTALLER TO FILL IN FLOORING BELOW OPEN COUNTERS.
- 4. G. C. TO PROVIDE TAS-ADA COMPLIANT FLOOR TRANSITION STRIPS BETWEEN FLOOR FINISHES.
- 5. REFER TO SHEET A6.11 FOR ADDITIONAL FINISH INFORMATION

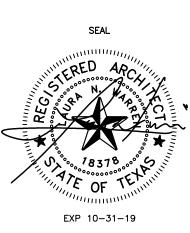
## SHEET LEGEND





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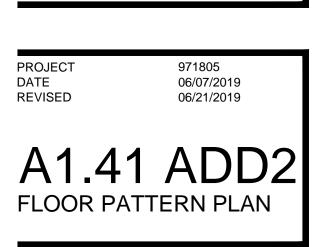


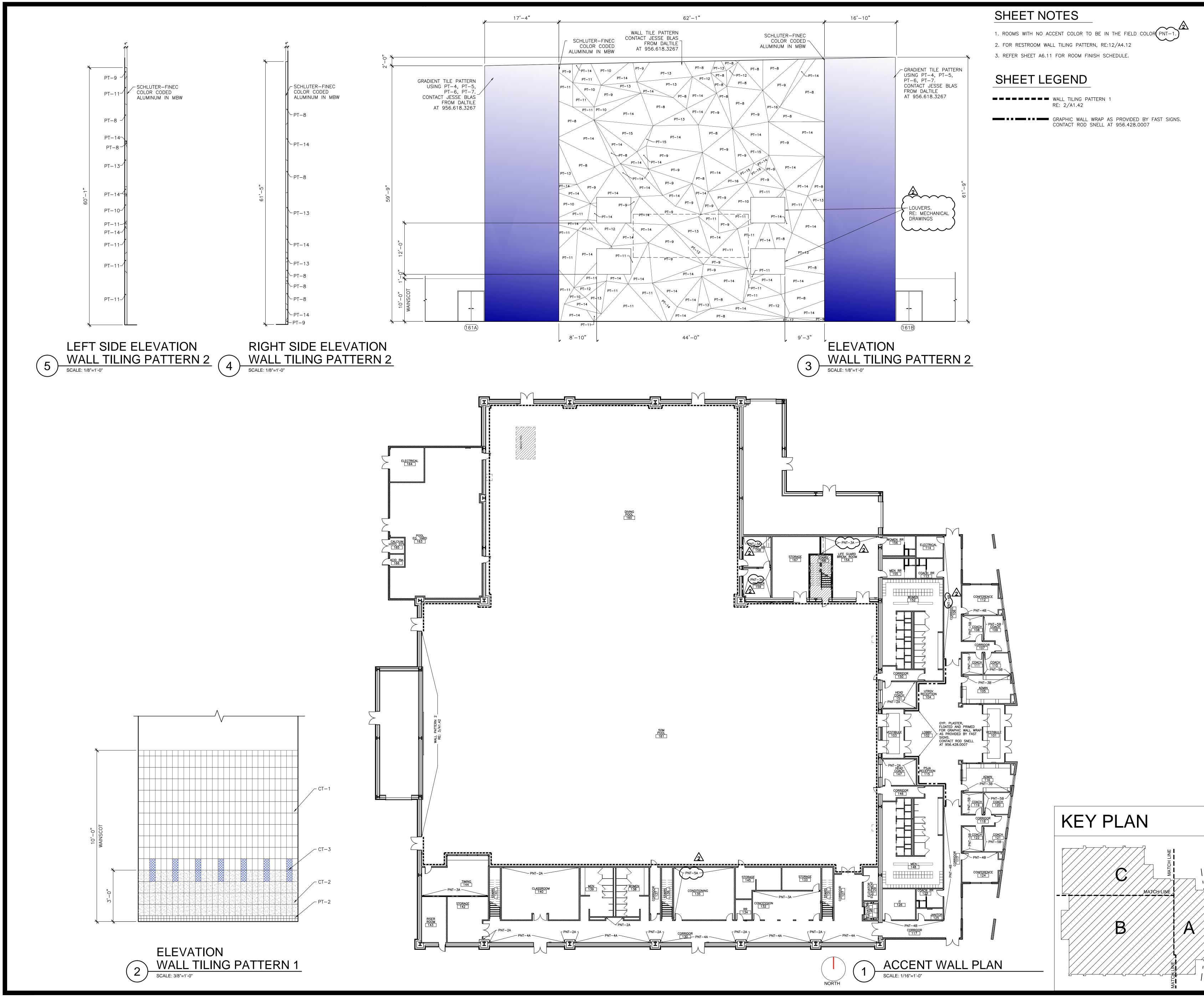


PROPOSED

CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

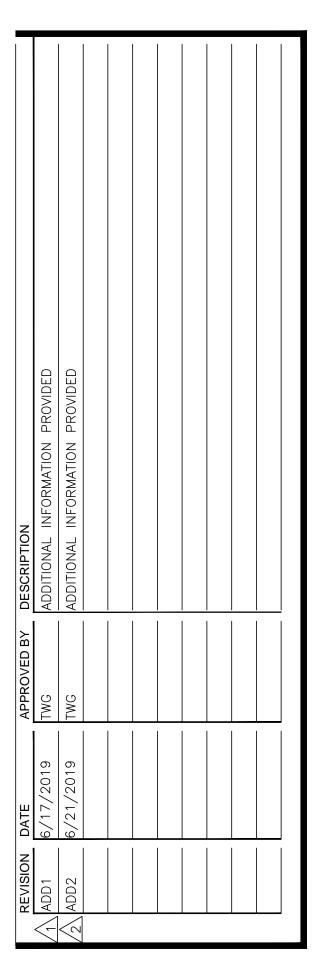


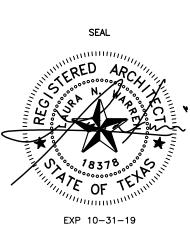






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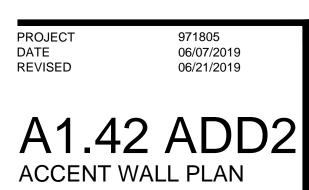




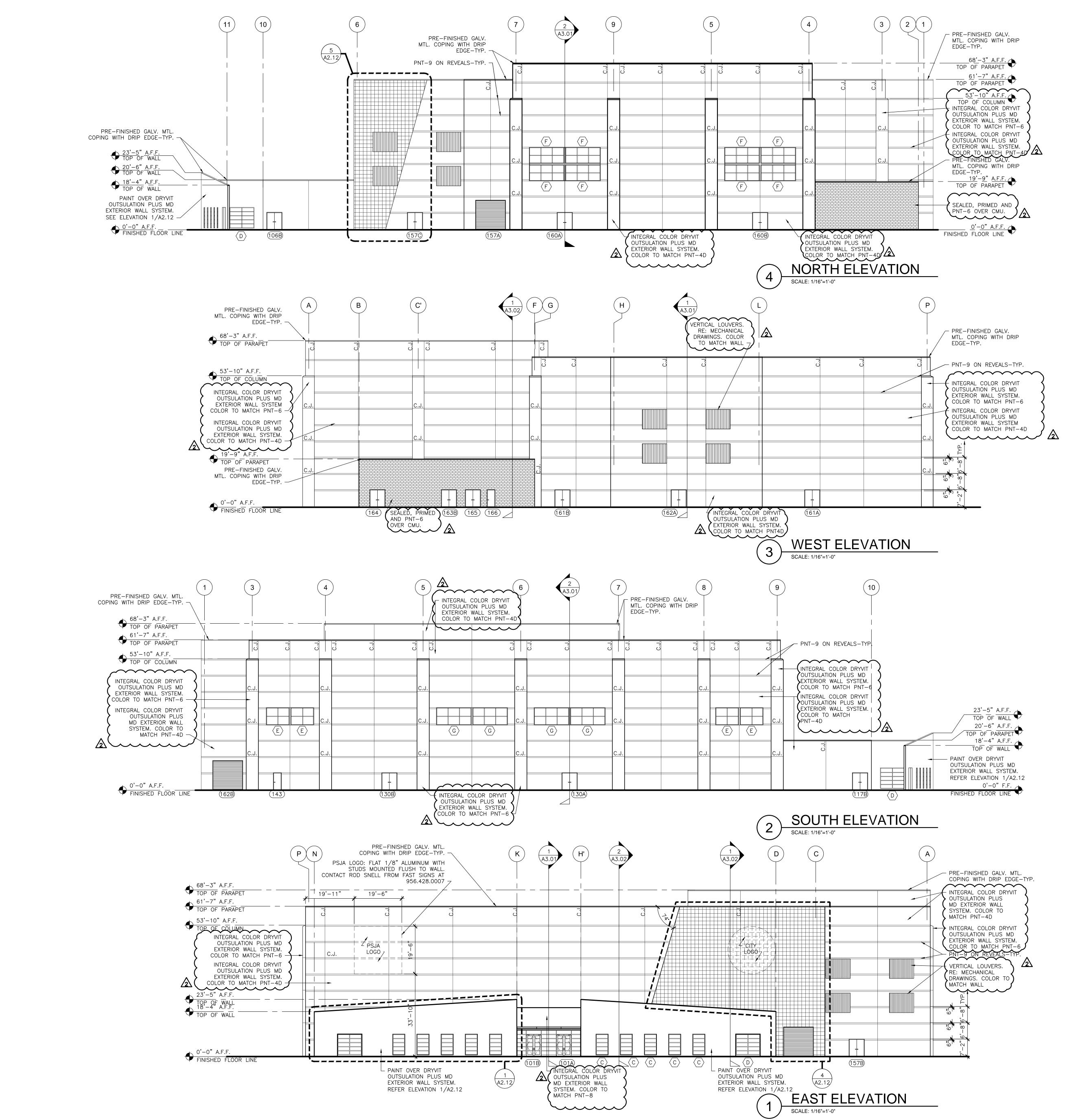
PROPOSED

CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577



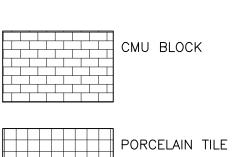
971805 06/07/2019 06/21/2019

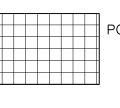


## SHEET NOTES

- 1. REFER TO SHEET A6.21 FOR DOOR AND WINDOW SCHEDULE.
- 2. REFER TO SHEET A6.22 FOR DOOR AND WINDOW ELEVATIONS.
- 3. REFER TO SHEET A6.11 FOR FINISH SCHEDULE.

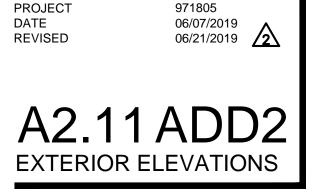
## SHEET LEGEND





C.J.

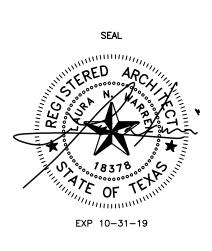
CONTROL "V" JOINTS REFER TO 2/A5.11



3001 N. CAGE BLVD PHARR, TEXAS 78577

**CITY OF PHARR/PSJA** AQUATIC FACILITY

PROPOSED



DESCRIPTION	ADDITIONAL INFORMATION PROVIDED	ADDITIONAL INFORMATION PROVIDED							
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APPROVED BY	TWG	TWG							
DATE	6/17/2019	6/21/2019							
REVISION DATE		ADD2							
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THESE DRAWINGS AND INFORMATION

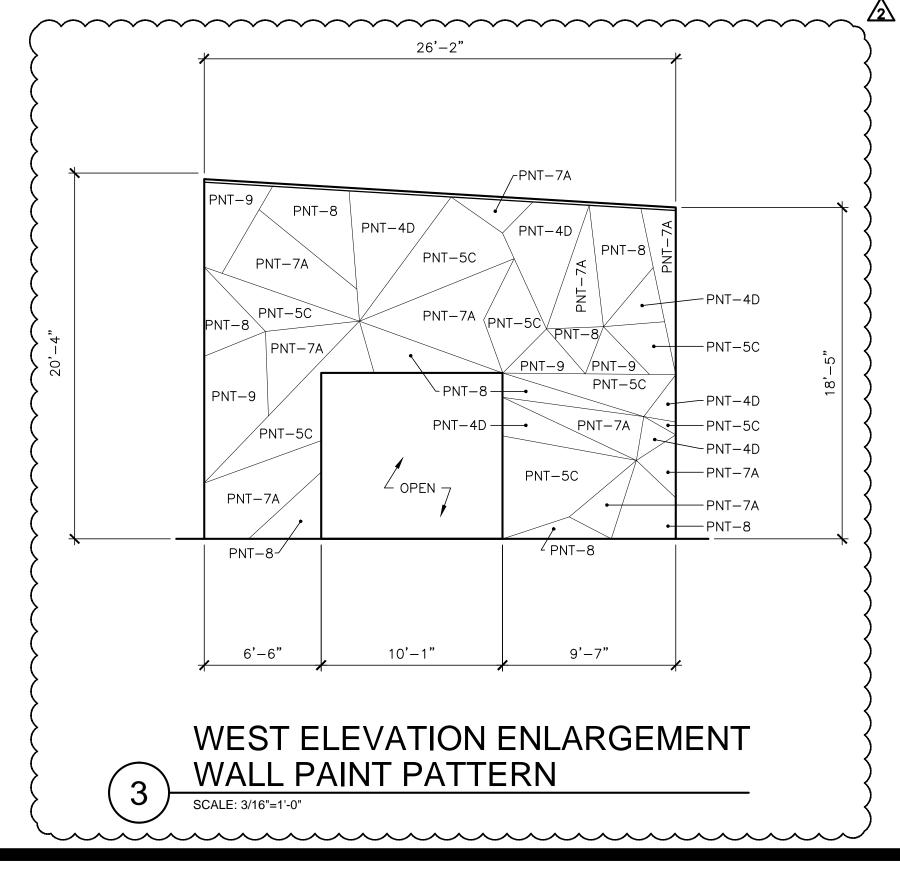
THE WARREN GROUP ARCHITECTS, INC. 1801 SOUTH SECOND ST.

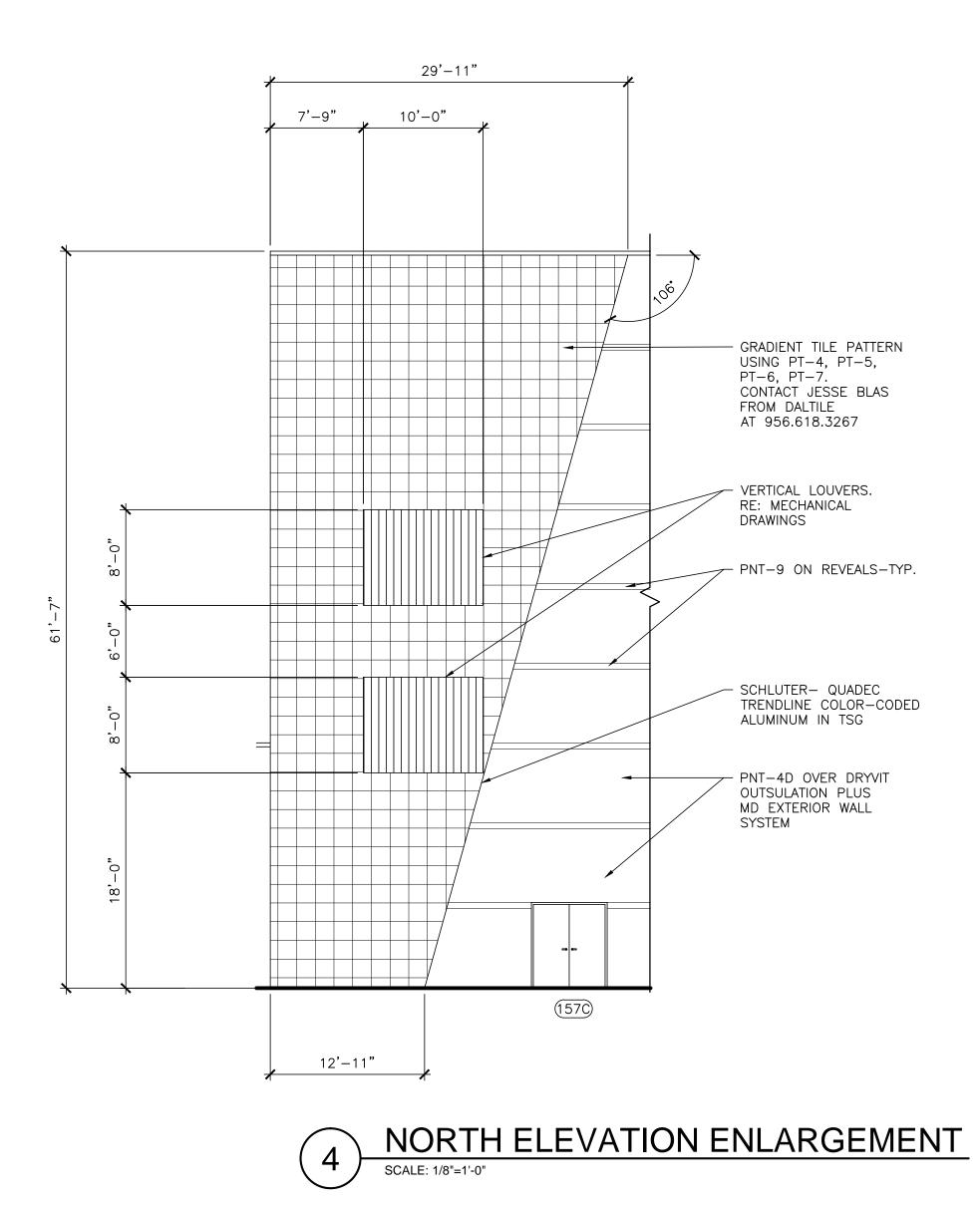
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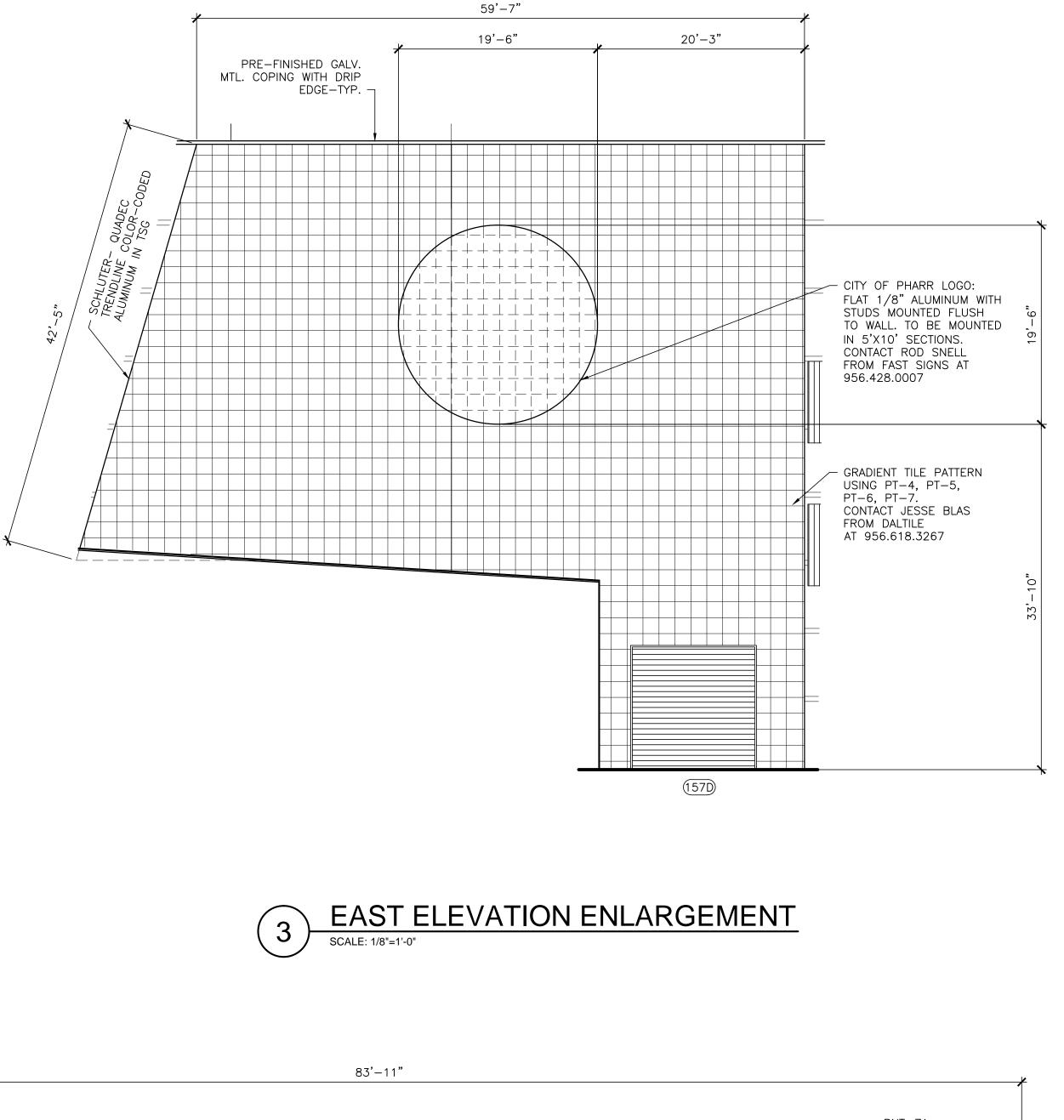
MCALLEN, TX 78503

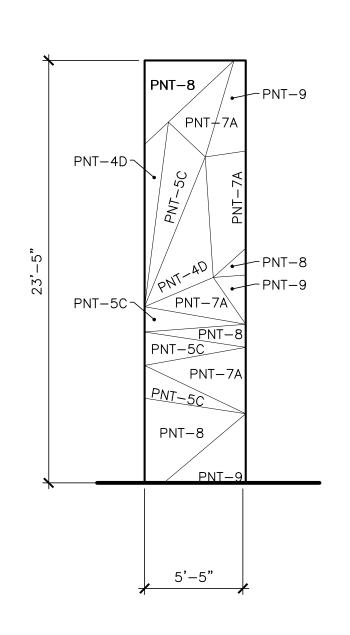
956.994.1900

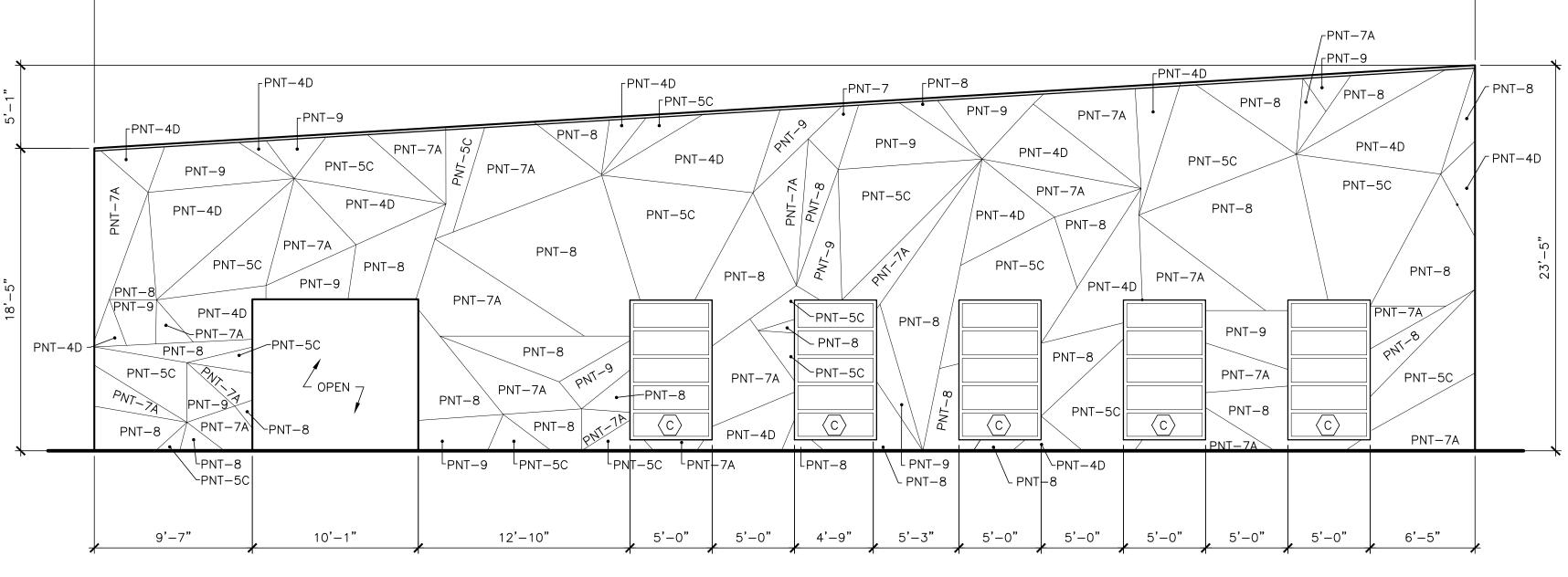
twgarch.com











NORTH ELEVATION ENLARGEMENT WALL PAINT PATTERN 2

SCALE: 3/16"=1'-0"

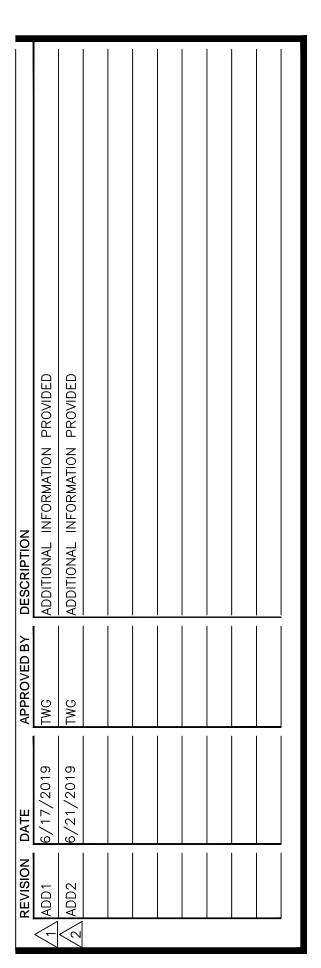
## SHEET NOTES

- 1. REFER TO SHEET A6.21 FOR DOOR AND WINDOW SCHEDULE.
- 2. REFER TO SHEET A6.22 FOR DOOR AND WINDOW ELEVATIONS.
- 3. REFER TO SHEET A6.11 FOR FINISH SCHEDULE.





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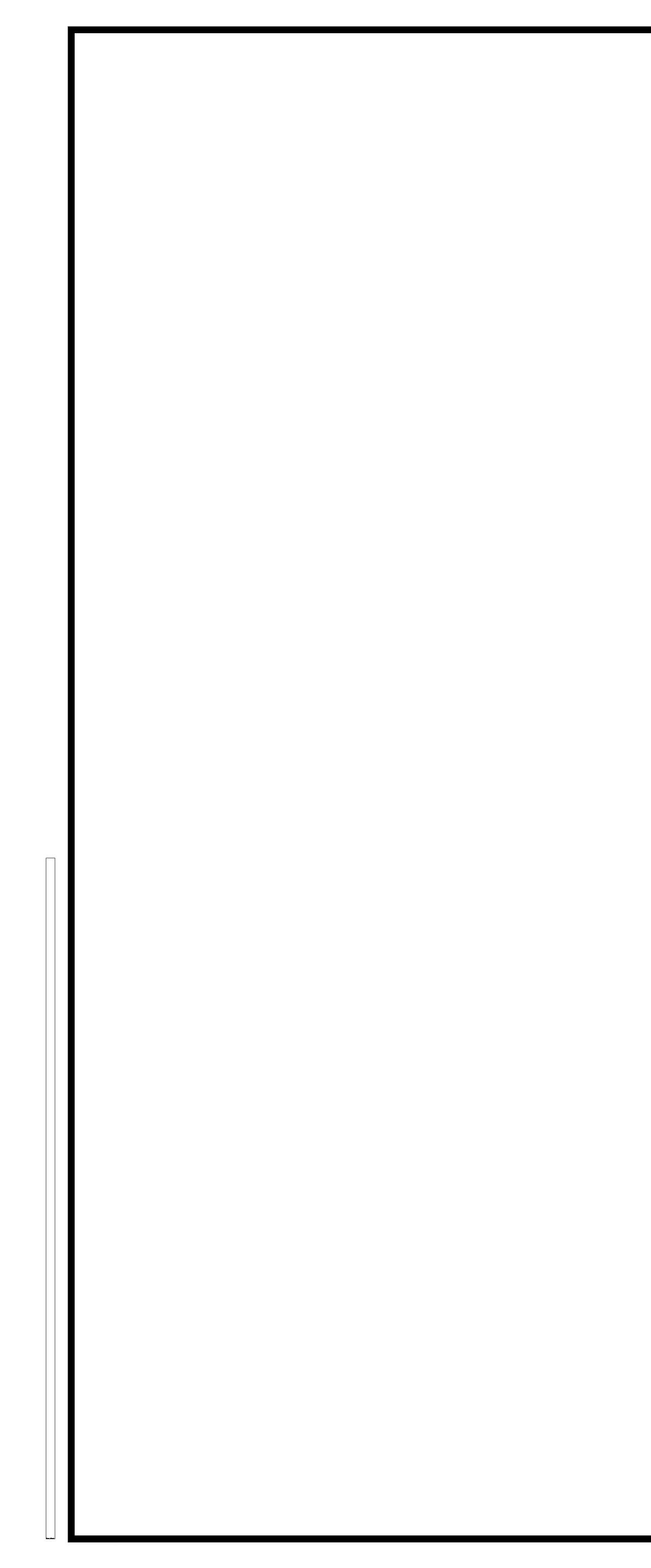


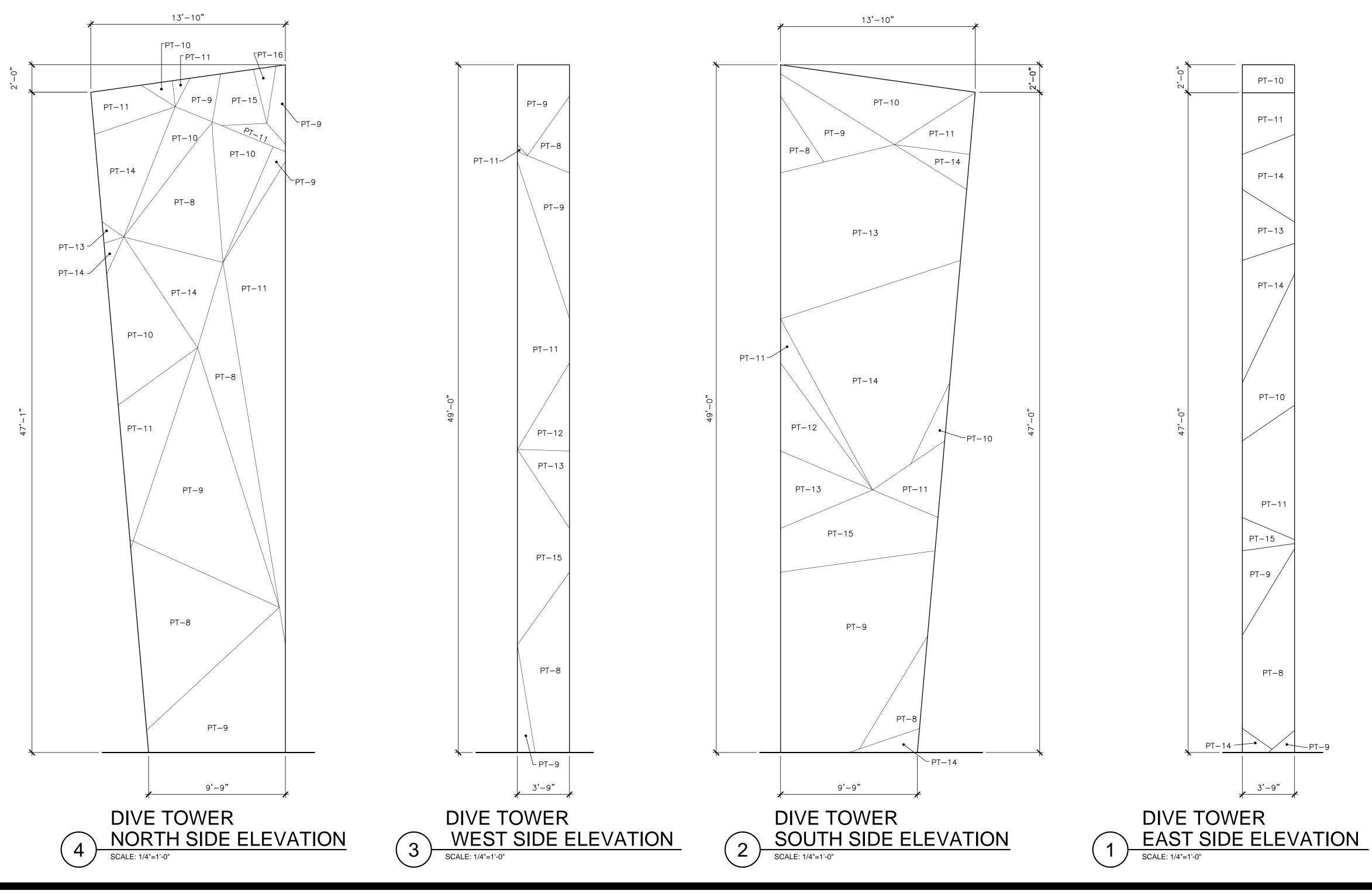
PROPOSED

**CITY OF PHARR/PSJA** AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577





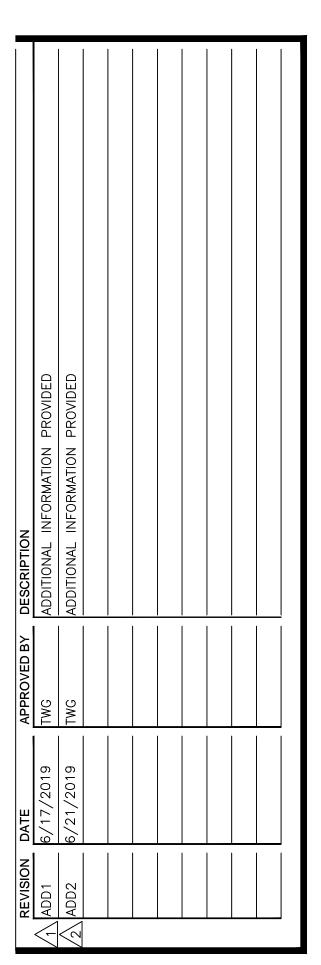


## SHEET NOTES

1. REFER TO SHEET A6.11 FOR FINISH SCHEDULE.



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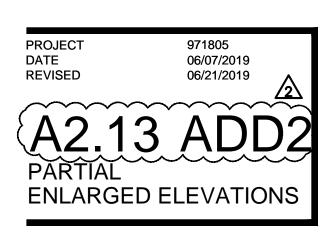


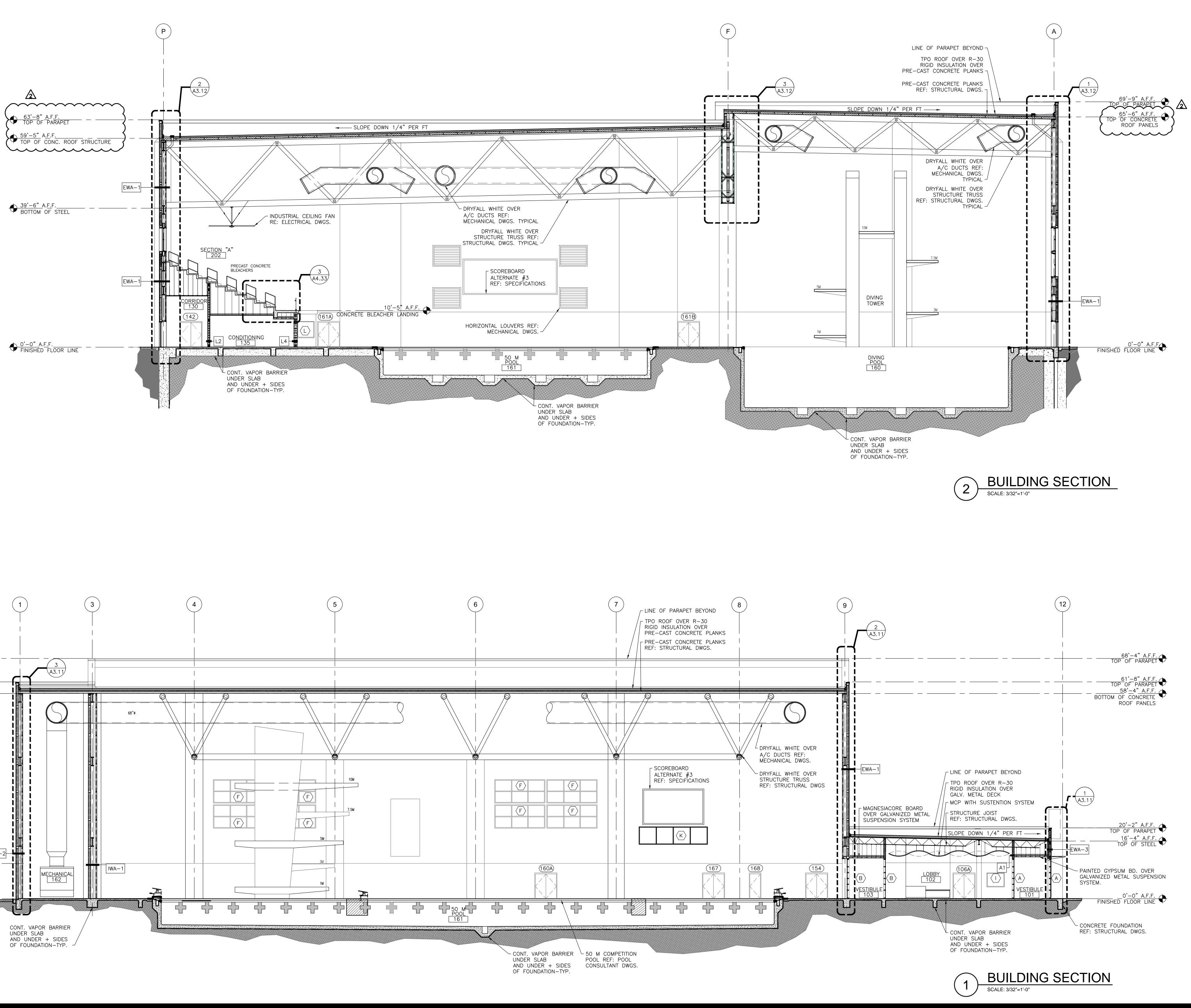


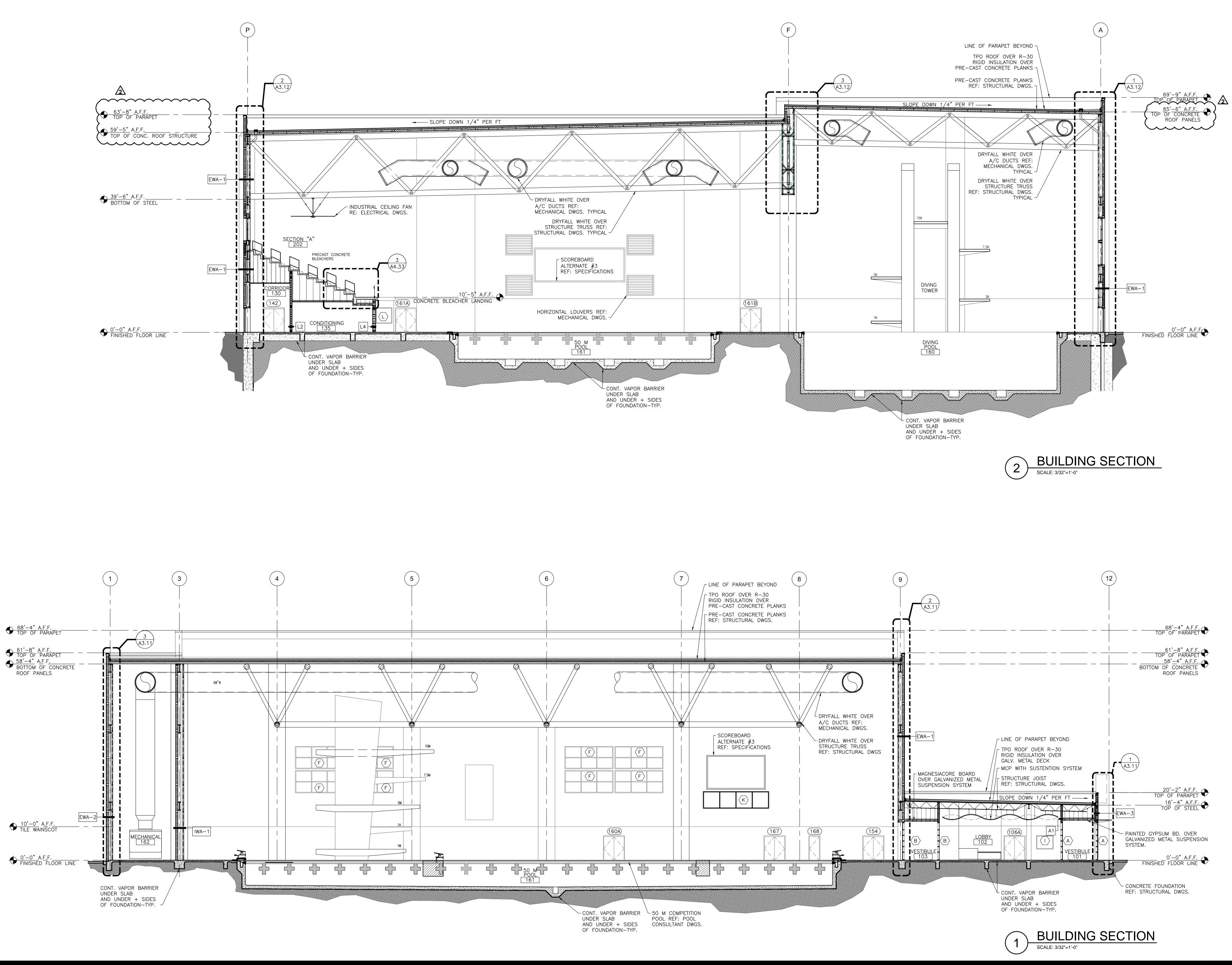
PROPOSED

CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

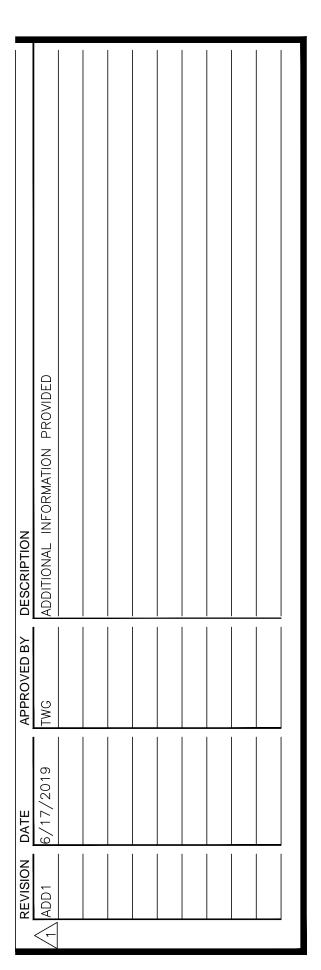


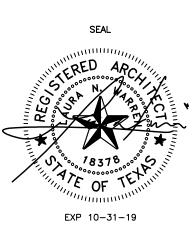






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PROPOSED

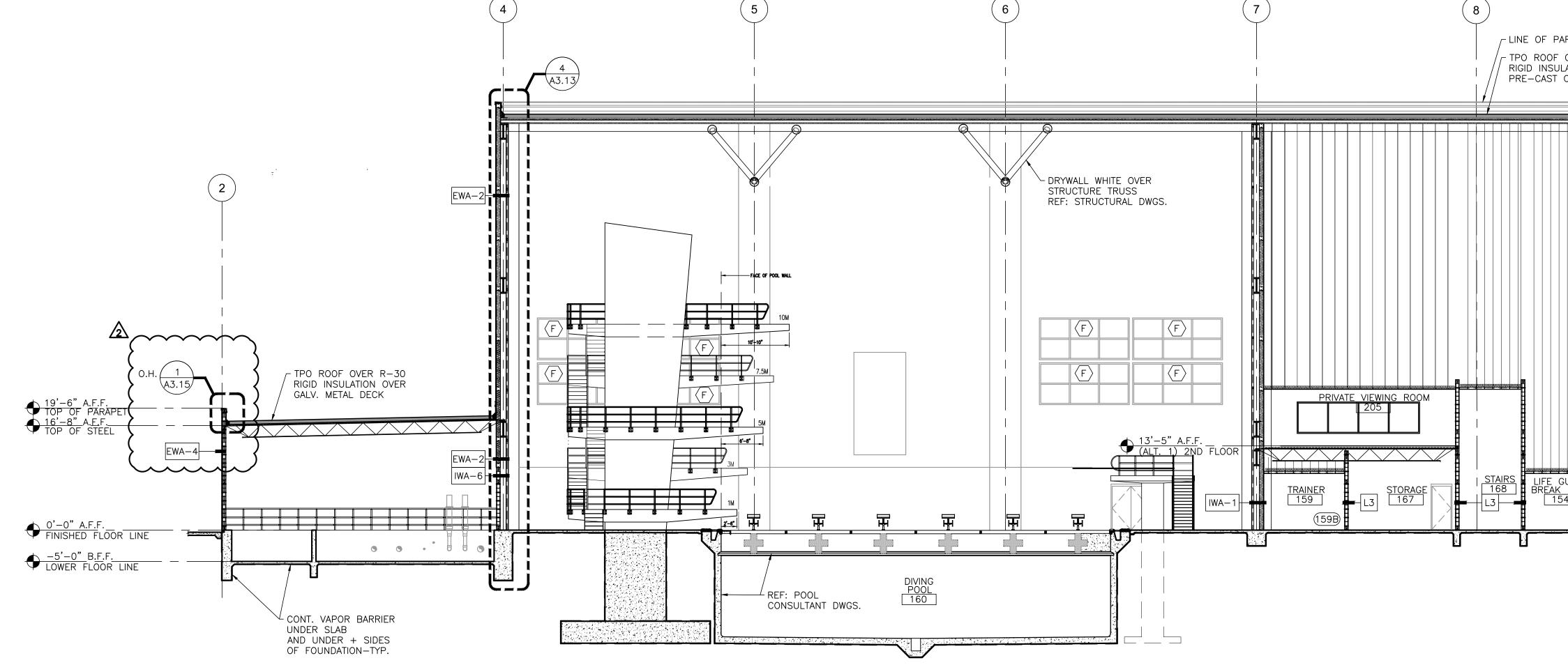
CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

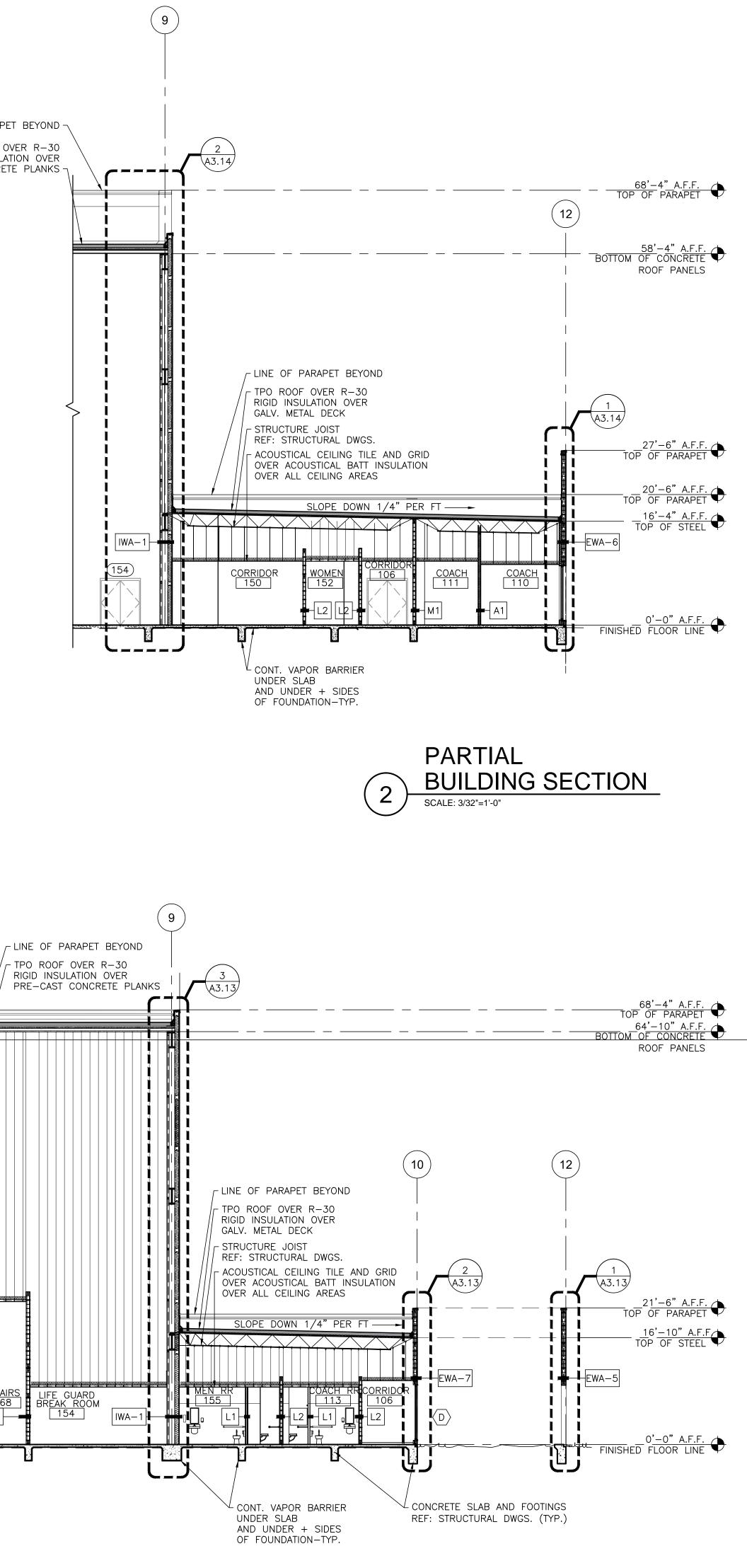


971805 06/07/2019 06/17/2019

A3.01 ADD2 **BUILDING SECTIONS** 



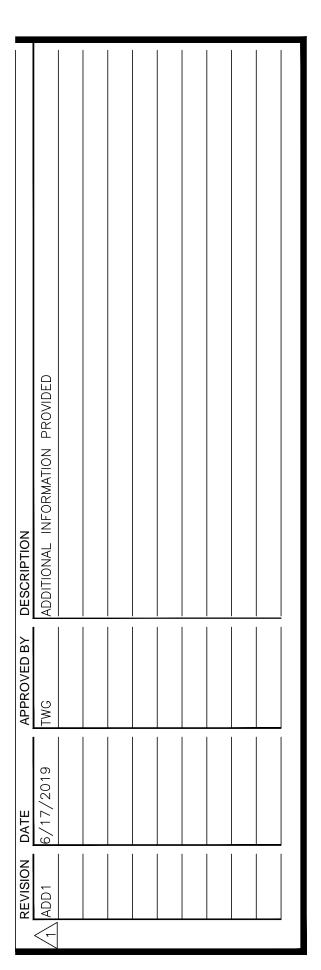
LINE OF PARAPET BEYOND -TPO ROOF OVER R—30 RIGID INSULATION OVER PRE-CAST CONCRETE PLANKS

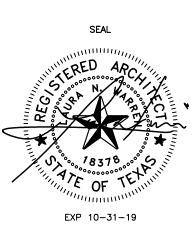


1 BUILDING SECTION SCALE: 3/32"=1'-0"



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PROPOSED

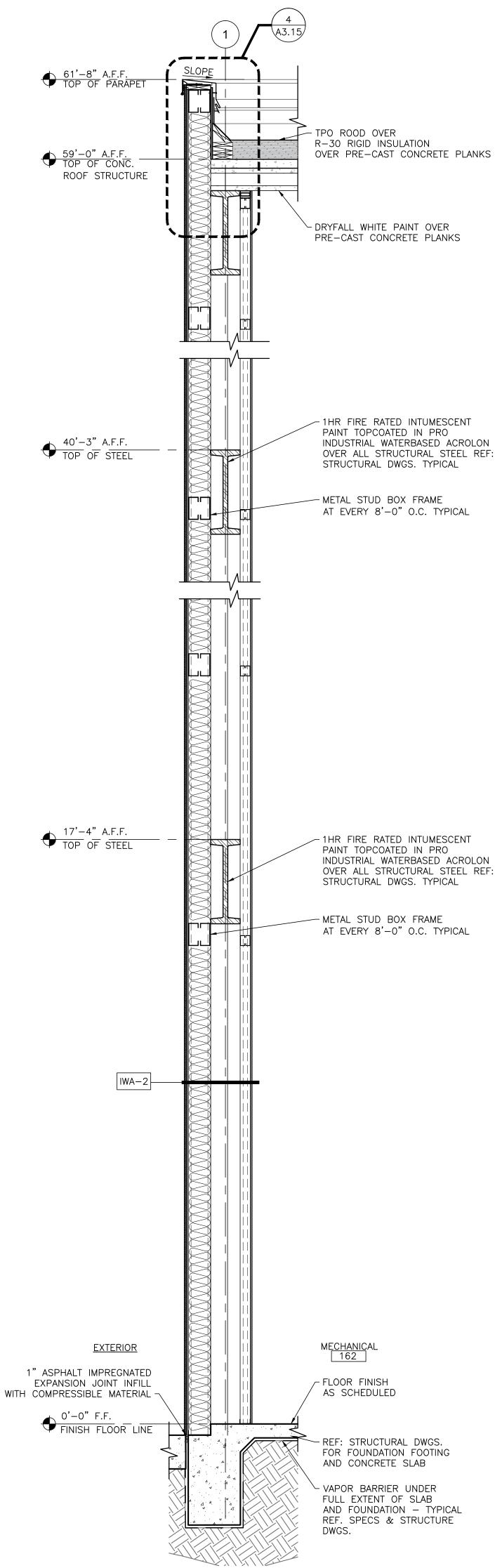
CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

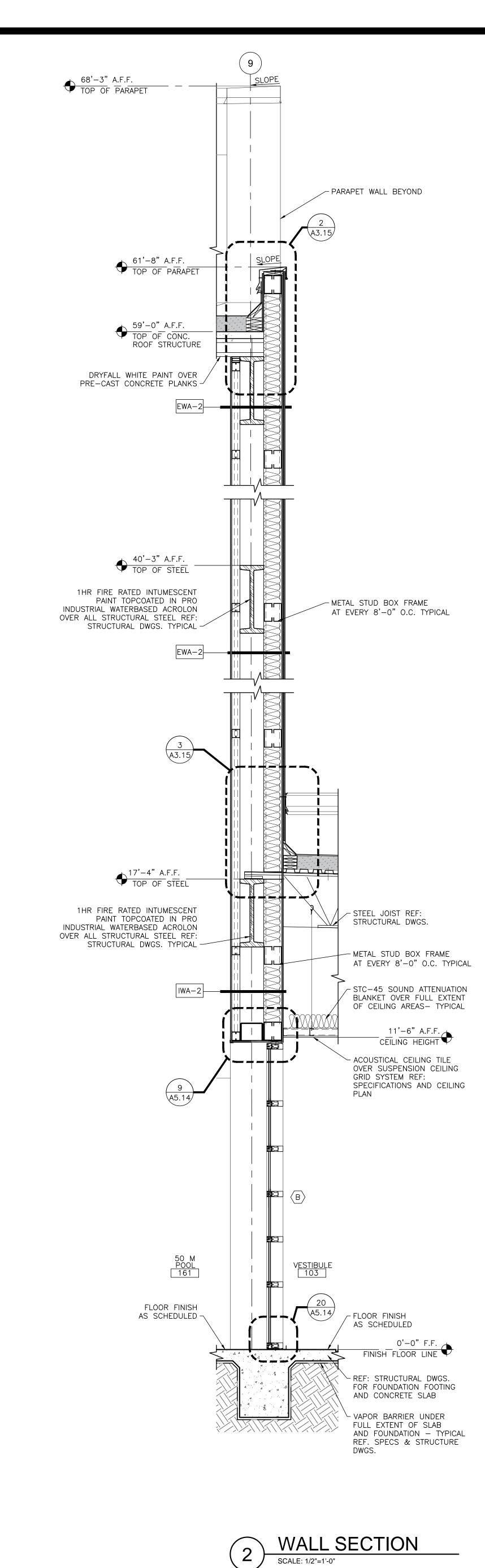
PROJECT DATE REVISED

971805 06/07/2019 06/17/2019

A3.02 ADD2 BUILDING SECTIONS

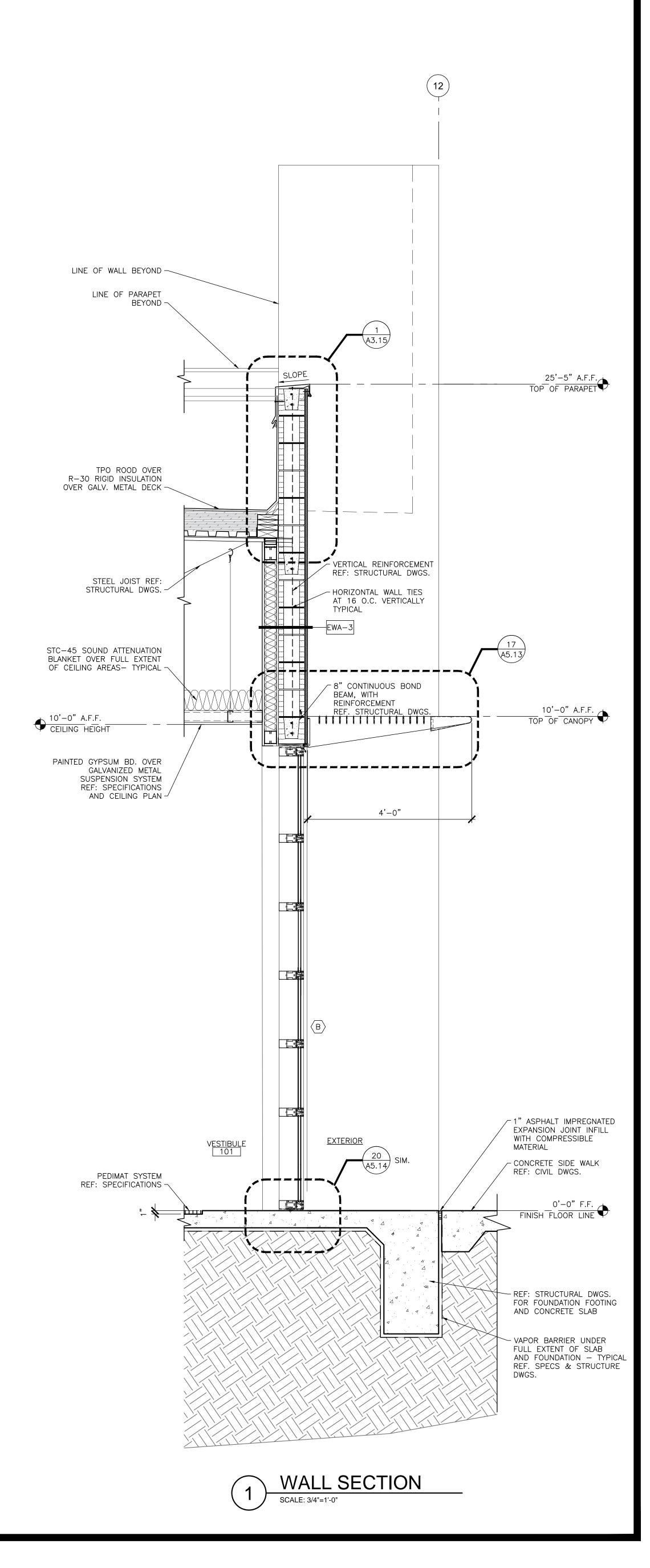






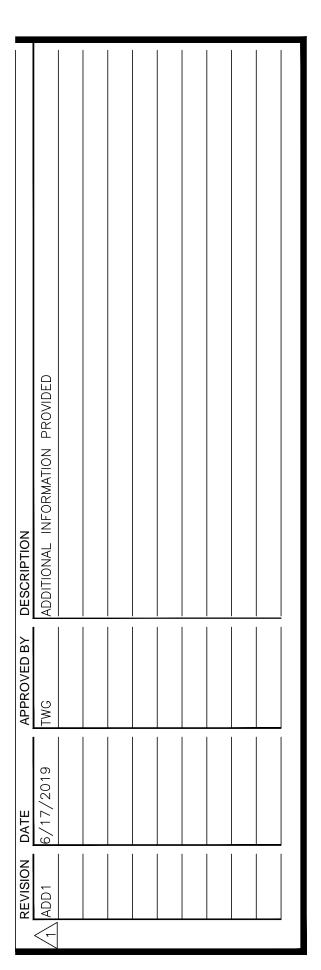
HR FIRE RATED INTUMESCENT PAINT TOPCOATED IN PRO INDUSTRIAL WATERBASED ACROLON OVER ALL STRUCTURAL STEEL REF: STRUCTURAL STEEL REF:

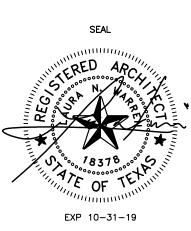
INDUSTRIAL WATERBASED ACROLON OVER ALL STRUCTURAL STEEL REF:





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PROPOSED

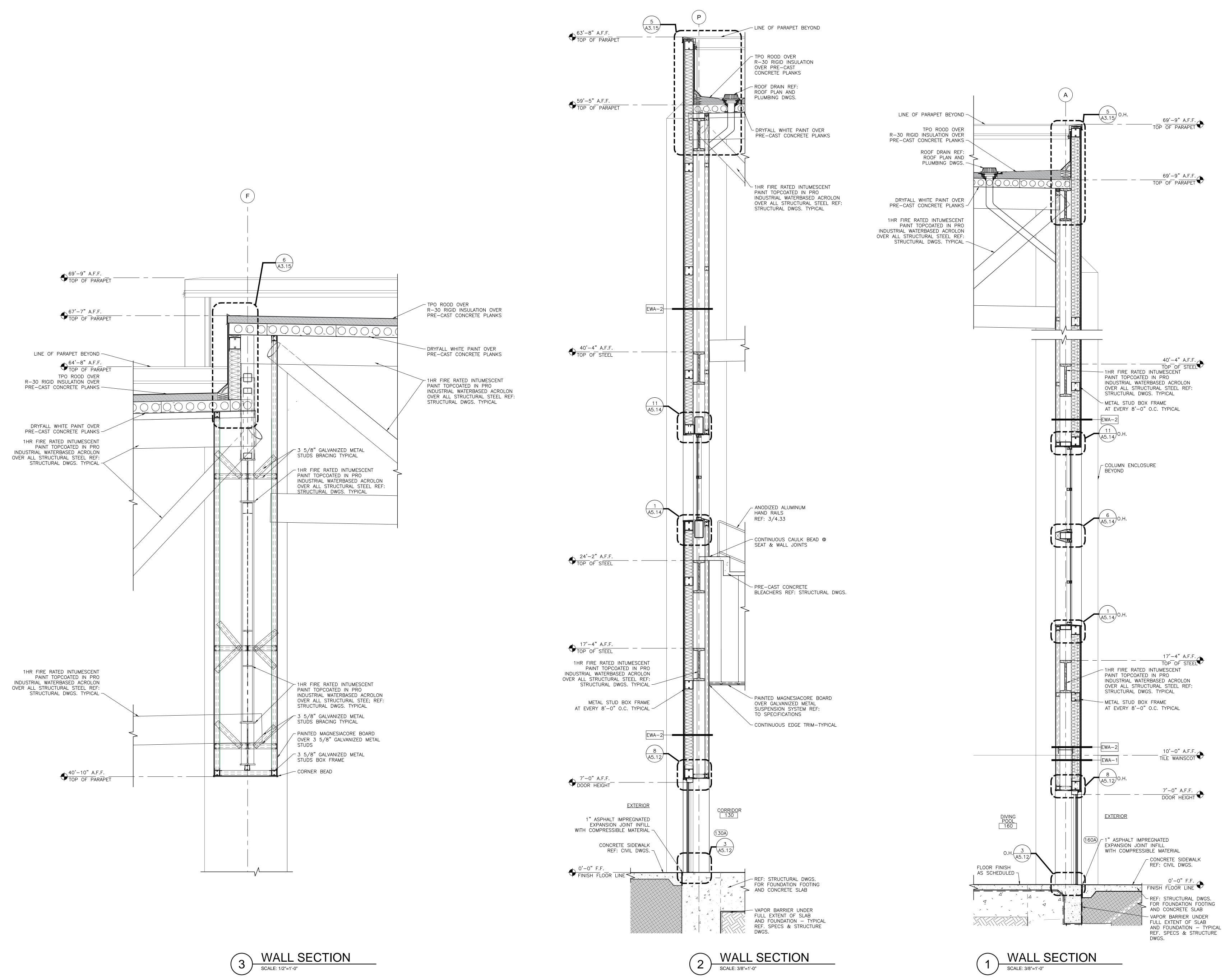
CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

PROJECT DATE REVISED

971805 06/07/2019 06/17/2019

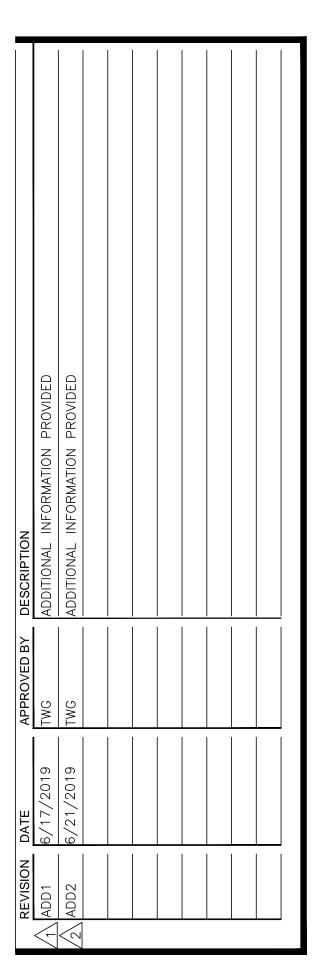
A3.11ADD2

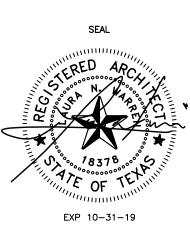




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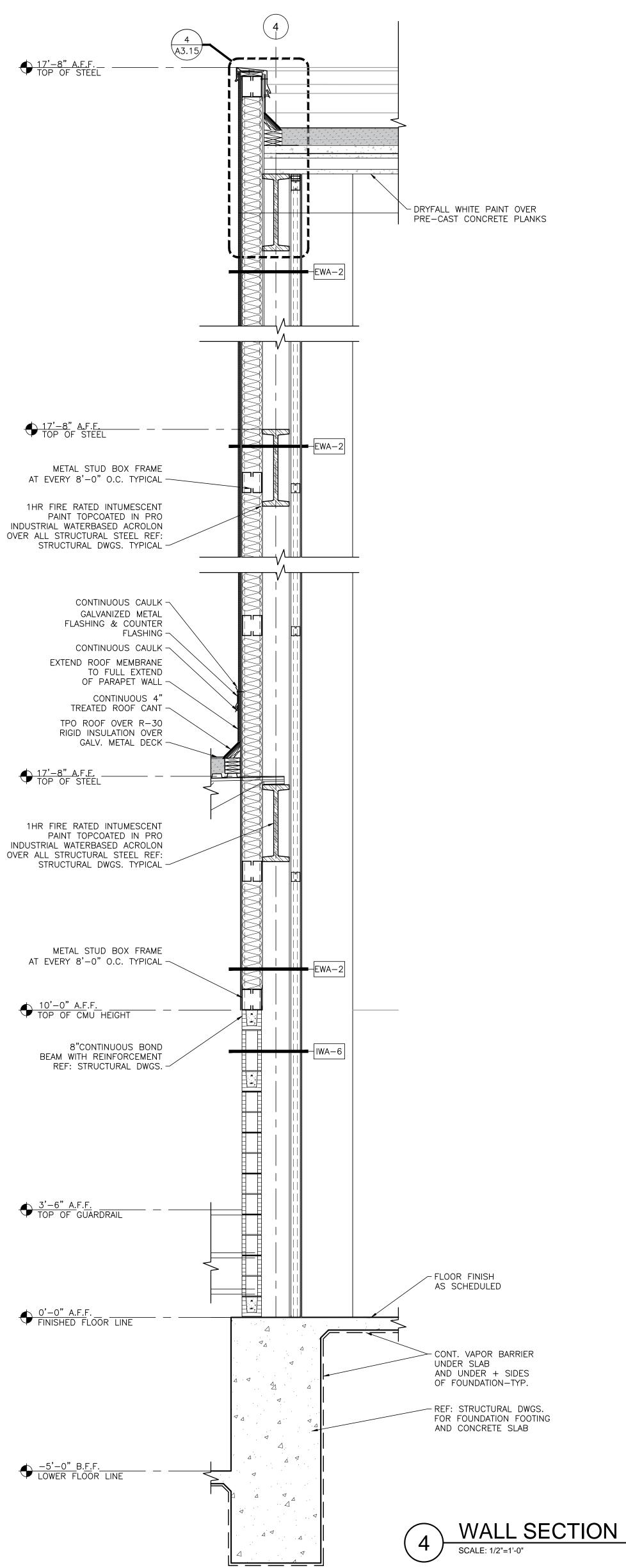
**CITY OF PHARR/PSJA** AQUATIC FACILITY

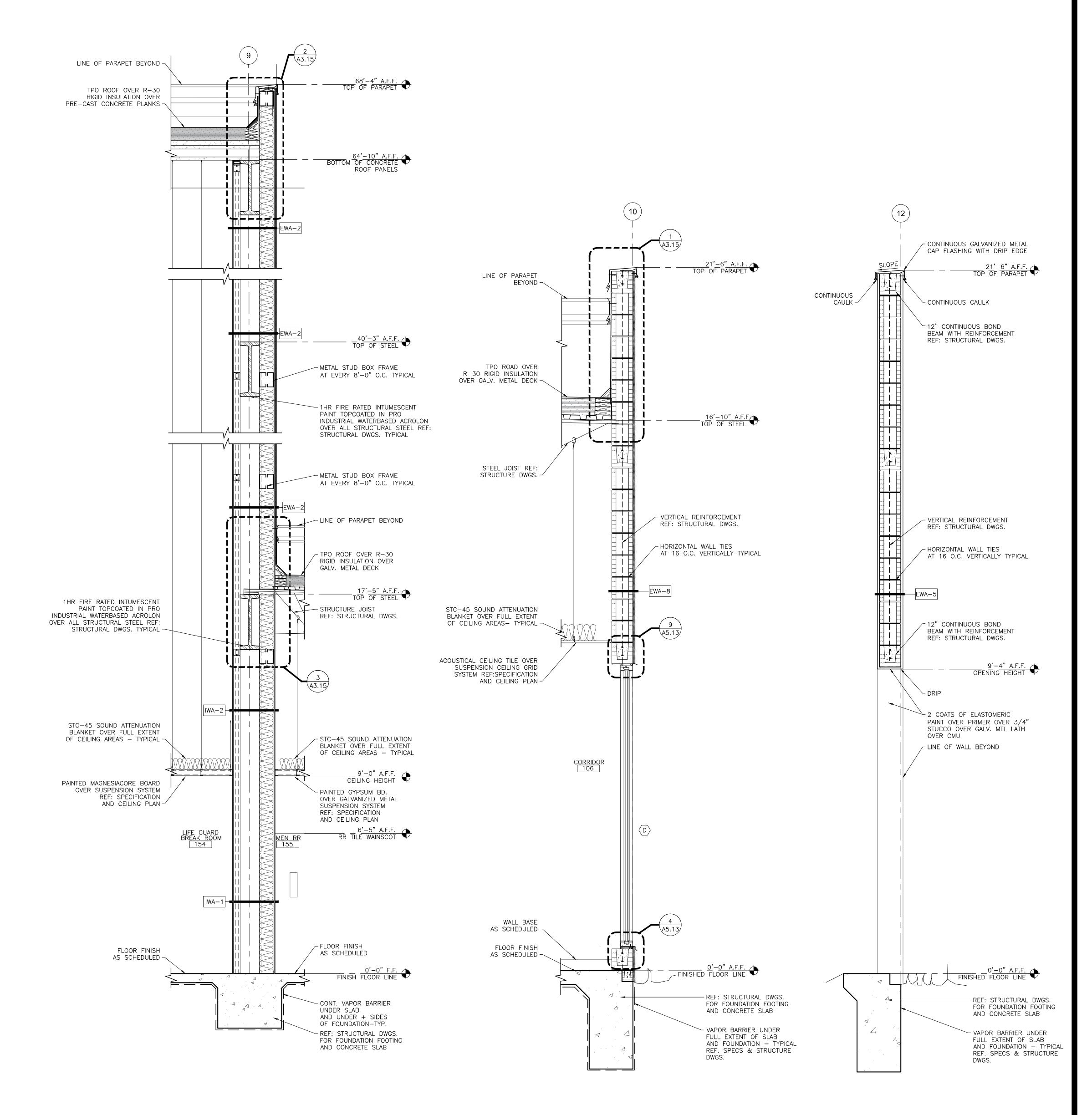
3001 N. CAGE BLVD PHARR, TEXAS 78577

PROJECT DATE REVISED

971805 06/07/2019 06/21/2019

A3.12 ADD2





2)

WALL SECTION SCALE: 1/2"=1'-0"

3

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

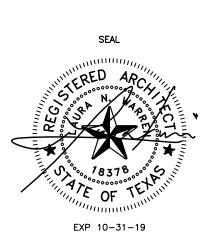
WALL SECTION 1 SCALE: 3/4"=1'-0"



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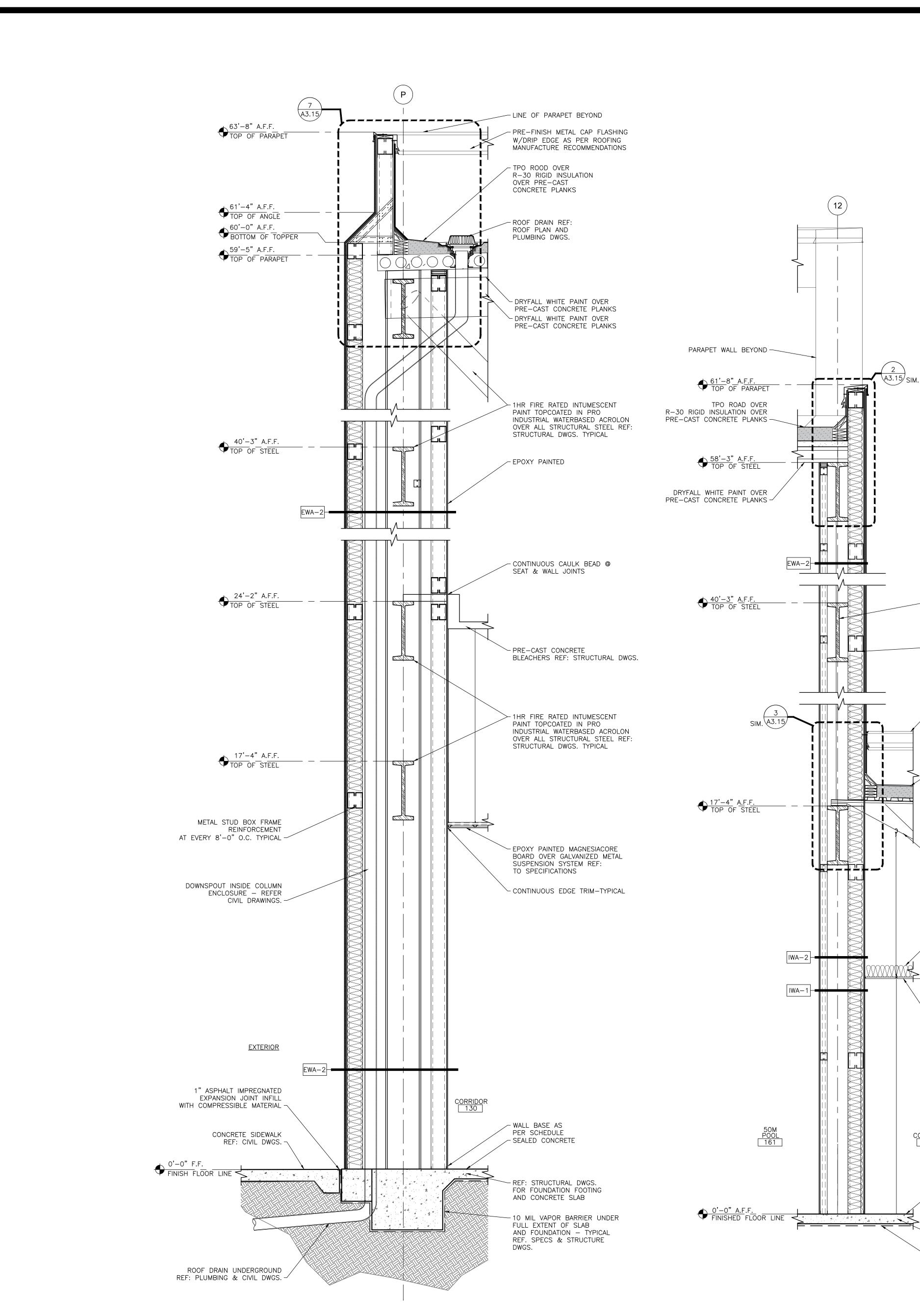
CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

PROJECT DATE REVISED

971805 06/07/2019 06/21/2019

A3.13 ADD2



3

WALL SECTION SCALE: 1/2"=1'-0"

WALL SECTION 2 SCALE: 1/2"=1'-0"

## - 1HR FIRE RATED INTUMESCENT PAINT TOPCOATED IN PRO INDUSTRIAL WATERBASED ACROLON OVER ALL STRUCTURAL STEEL REF: STRUCTURAL DWGS. TYPICAL – METAL STUD BOX FRAME AT EVERY 8'-0" O.C. TYPICAL

LINE OF PARAPET BEYOND

✓ TPO ROAD OVER R−30 RIGID INSULATION OVER GALV. METAL DECK

- STEEL JOIST REF: STRUCTURE DWGS.

STC-45 SOUND ATTENUATION BLANKET OVER FULL EXTENT OF CEILING AREAS- TYPICAL

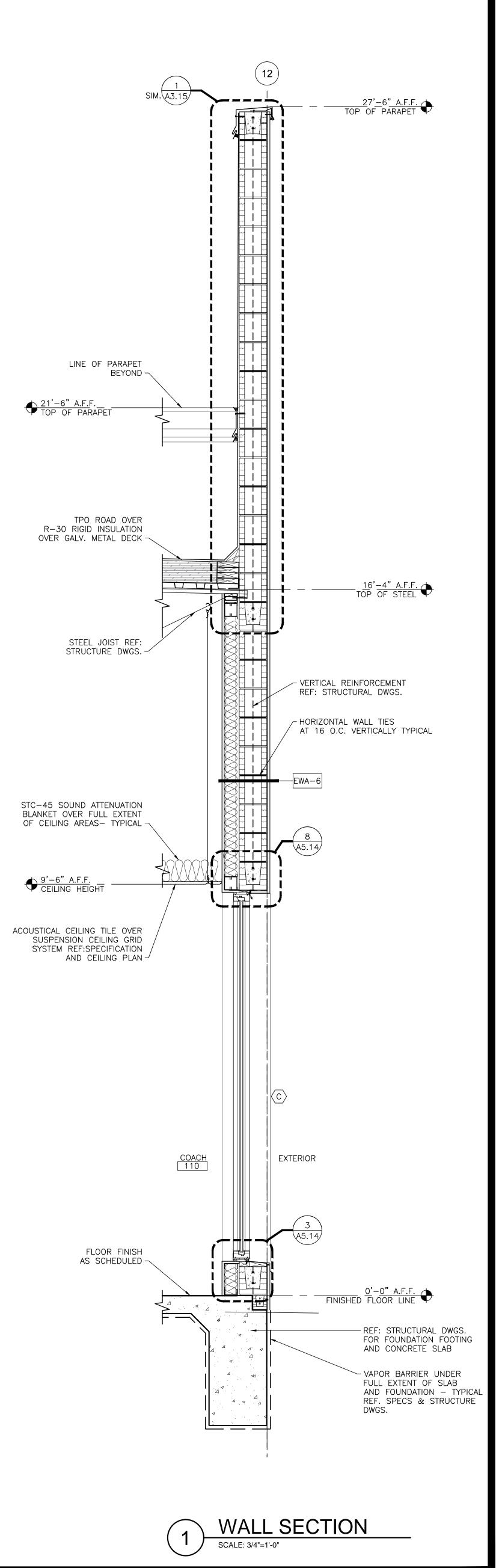
- <u>10'-0" A.F.F.</u> CEILING HEIGHT

- ACOUSTICAL CEILING TILE OVER SUSPENSION CEILING GRID SYSTEM REF:SPECIFICATION AND CEILING PLAN

CORRIDOR

- FLOOR FINISH AS SCHEDULED

- REF: STRUCTURAL DWGS. FOR FOUNDATION FOOTING AND CONCRETE SLAB VAPOR BARRIER UNDER FULL EXTENT OF SLAB AND FOUNDATION – TYPICAL REF. SPECS & STRUCTURE DWGS.

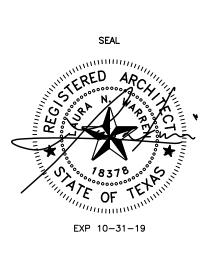




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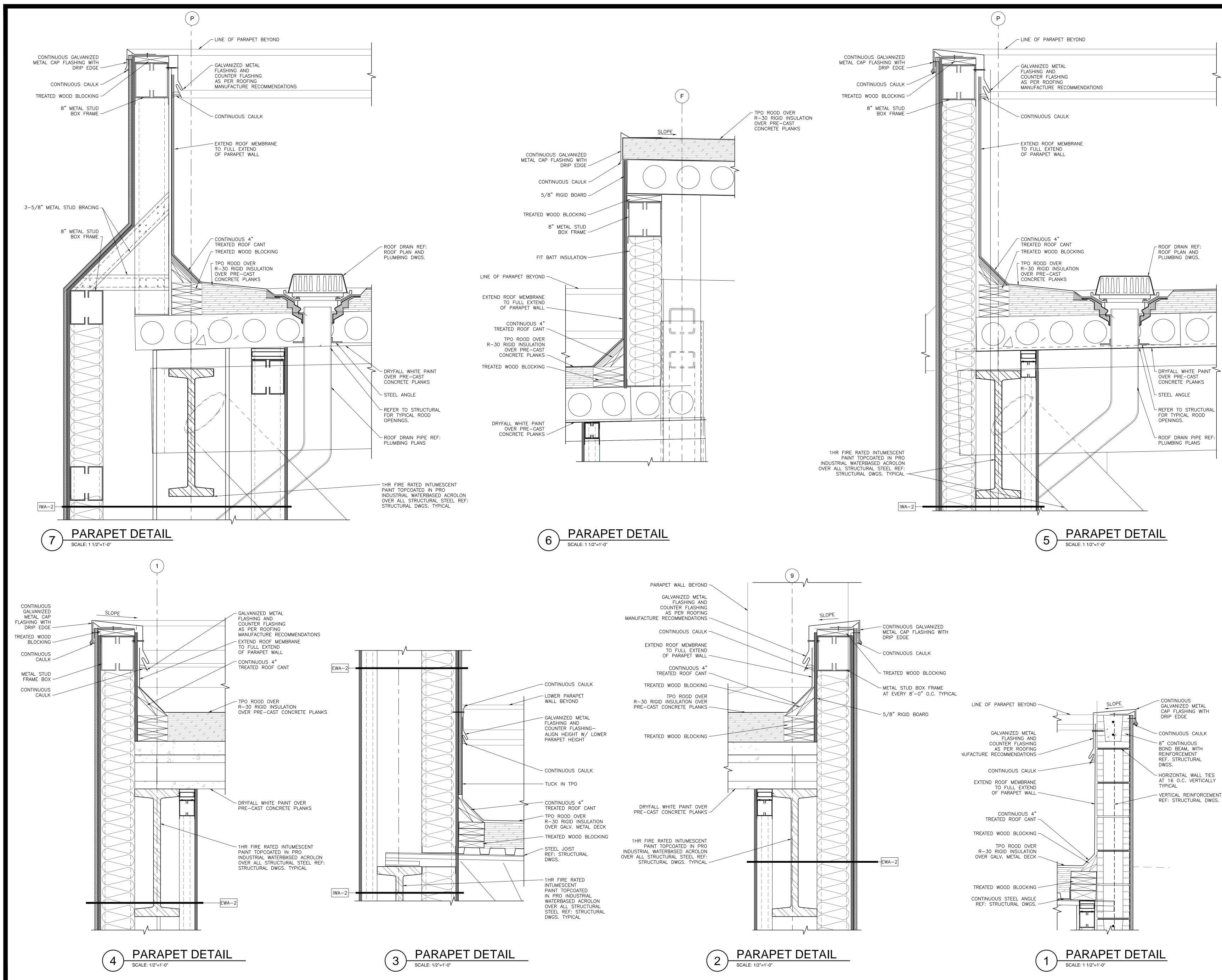
**CITY OF PHARR/PSJA** AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

PROJECT DATE REVISED

971805 06/07/2019 06/21/2019

A3.14 ADD2

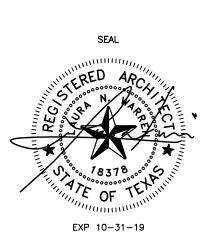




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PROPOSED

**CITY OF PHARR/PSJA** AQUATIC FACILITY

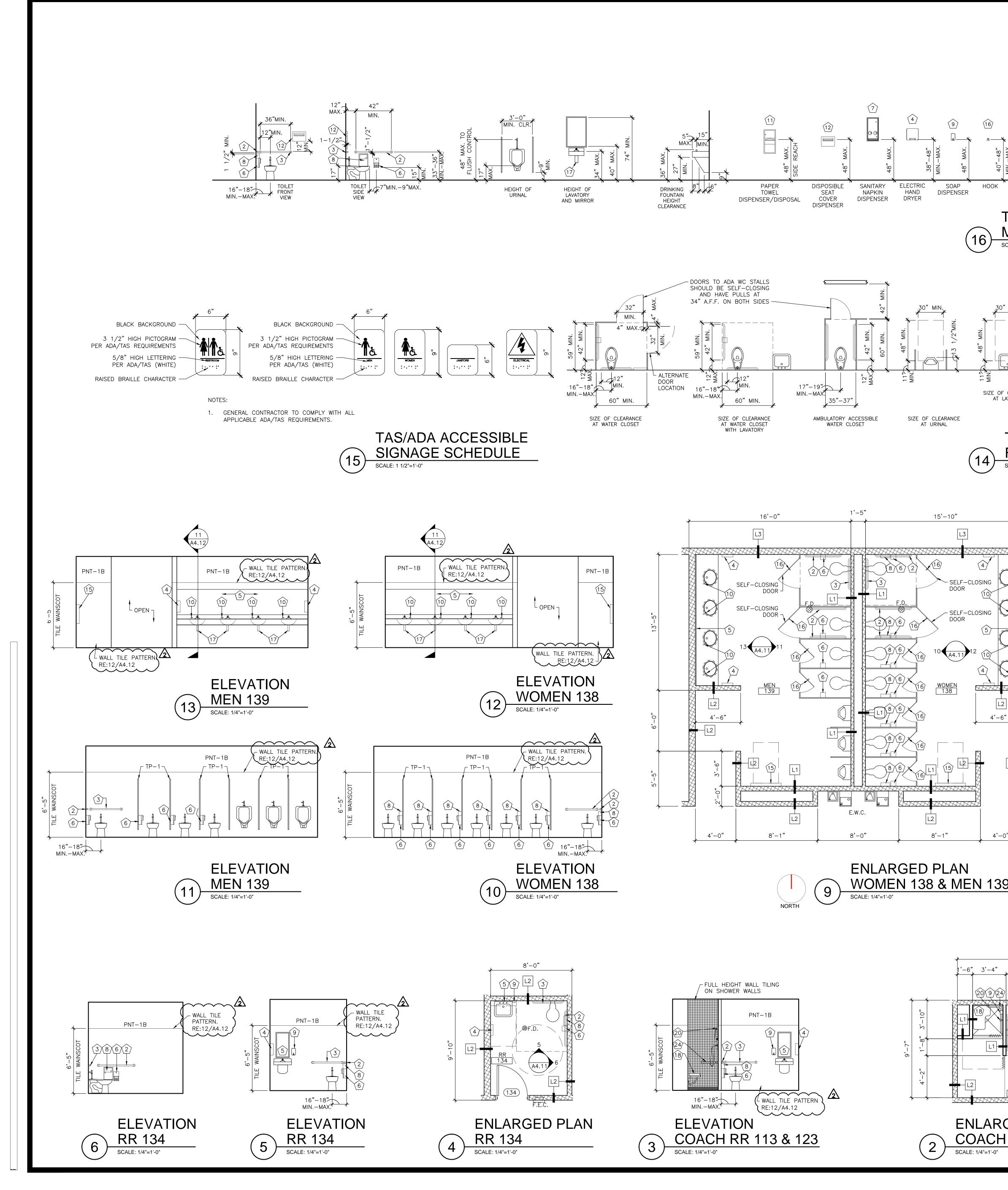
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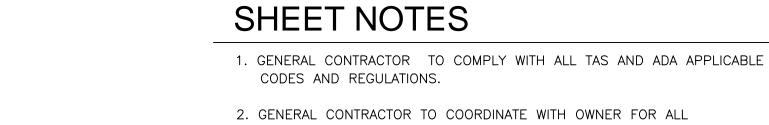
PARAPET DETAILS

3001 N. CAGE BLVD PHARR, TEXAS 78577

PROJECT DATE REVISED

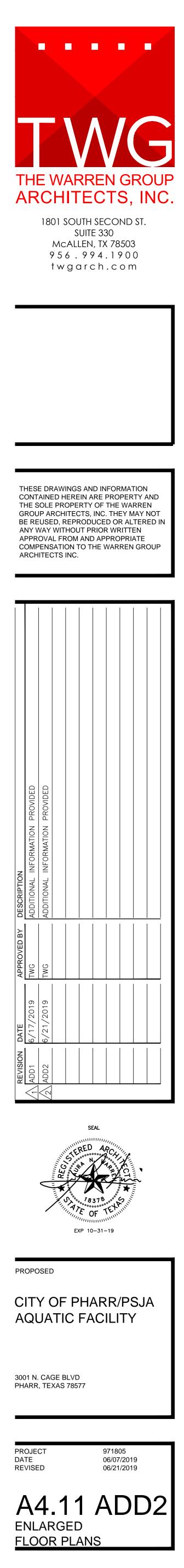
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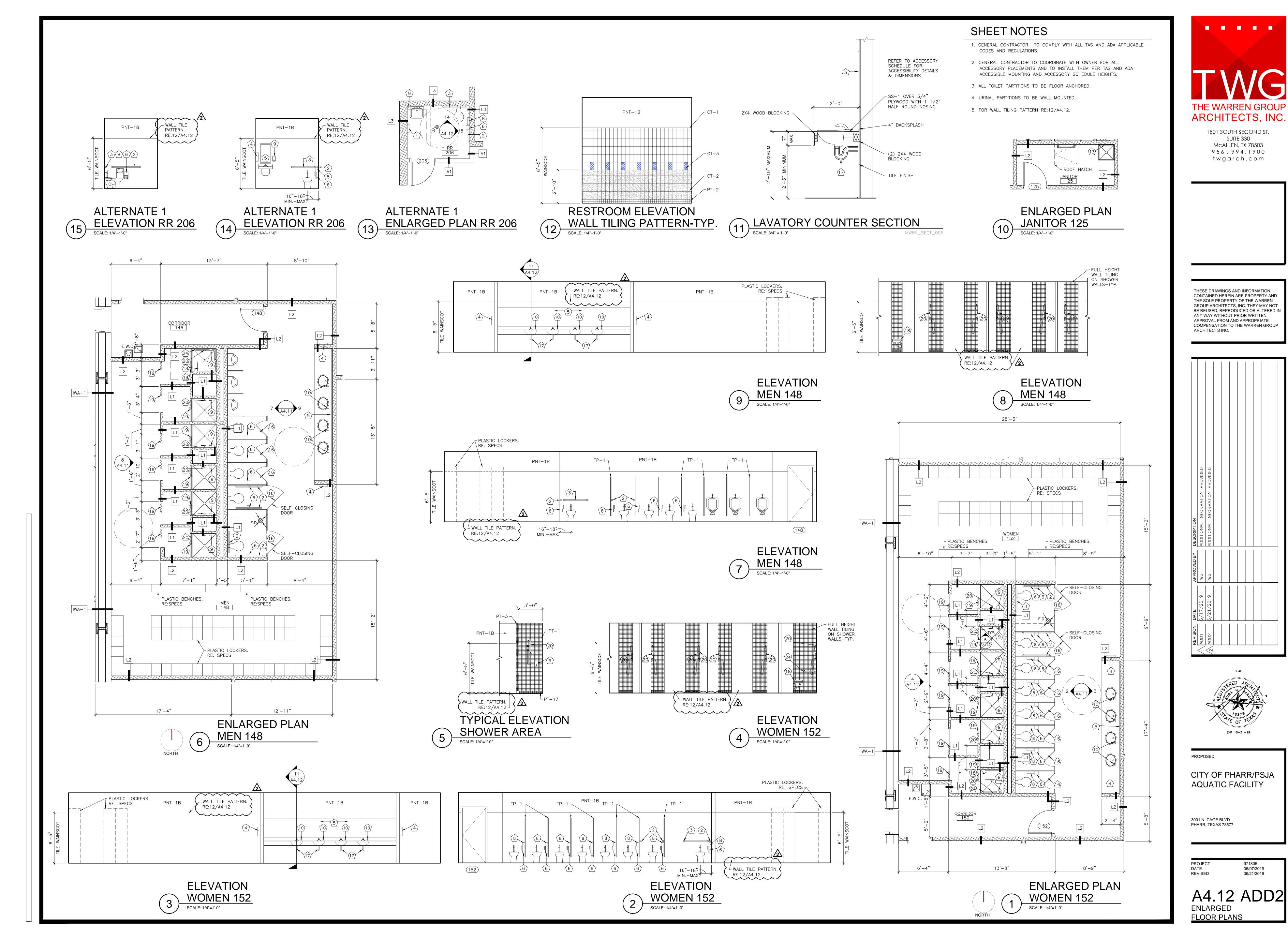




- ACCESSORY PLACEMENTS AND TO INSTALL THEM PER TAS AND ADA ACCESSIBLE MOUNTING AND ACCESSORY SCHEDULE HEIGHTS.
- 3. ALL TOILET PARTITIONS TO BE FLOOR ANCHORED.
- 4. URINAL PARTITIONS TO BE WALL MOUNTED.
- 5. FOR WALL TILING PATTERN RE:12/A4.12.

	5. F	FOR WALL TILING PATTERN F	RE:12/A4.12.	
APRON EXTENSION REQUIRED	AC	CESSORY S		
	KEY	ITEM	AD STANDARD	ULT HANDICAP (HC)
MINMAX. MINMAX. MAX.	_	WATER CLOSET (WC)	15" TO TOP OF SEAT	17" TO TOP OF SEAT
GRAB BAR	_	URINAL (UR)	24" TO TOP OF RIM	17" TO TOP OF RIM 27" TO BOTTOM OF
		GRAB BAR (48")	54 10 10	APRON 33" MIN./36" MAX. TO THE TOP OF THE
TAS/ADA ACCESSIBLE MOUNTING HEIGHT	(1) ^		_	GRIPPING SURFACE
SCALE:1/4"=1'-0"	2	GRAB BAR (42")	_	THE TOP OF THE GRIPPING SURFACE
	3	GRAB BAR (36")	-	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
	4	ELECTRIC HAND DRYER	48" TO CONTROL	38" TO CONTROL 40" TO BOTTOM OF
0" MIN., 30" MIN., 48" MIN.	5	MOUNTED MIRROR	74" TO TOP 15" TO CONTROL DEVICE	REFLECTIVE SURFACE
	$\begin{pmatrix} 6 \end{pmatrix}$ $\langle 7 \rangle$	SANITARY NAPKIN DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
	8	SANITARY NAPKIN DISPOSAL	19" TO CONTROL DEVICE	19" TO CONTROL DEVICE
6, 48, W MIN. MAX.	9	WALL MOUNTED RECESSED SOAP DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
	(10)	COUNTER MOUNTED SOAP DISPENSER	AT COUNTER	AT COUNTER – 34" MAX.
DF CLEARANCE DRINKING FOUNTAIN DRINKING FOUNTAIN LAVATORY FRONT APPROACH-PLAN SIDE APPROACH-PLAN VIEW. VIEW.	(11)	PAPER TOWEL DISPENSER/DISPOSAL	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
	(12)	DISPOSIBLE SEAT COVER DISPENSER	48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
TAS/ADA ACCESSIBLE	(13)		48" TO CONTROL DEVICE	48" TO CONTROL DEVICE
FIXTURE CLEARANCE	(14) (15)	ACCESSIBLE SIGNAGE DIAPER CHANGING STATION	60" TO CENTER OF SIGN	60" TO CENTER OF SIGN
SCALE: 1/4"=1'-0"	(16)	CLOTHES/TOWEL HOOK	UNFOLDED SURFACE -	48" MAXIMUM TO CENTER
	17	FOAM PIPE INSULATION WRAPPING	ALL EXPOSED LAVATORY PIPING	
	(18)	SHOWER COMPARTMENT SEAT	_	17" MIN 19" MAX TO TOP OF UNFOLDED SURFACE
	(19)	SHOWER CURTAIN AND ROD	76 1/2" TO CENTER OF BAR FOR 72" CURTAIN	-
	20	SHOWER HEAD	SHOWER HEAD	48"WITH HOSE RE: MEP DWG'S 33" MIN./36" MAX. TO
	21)	GRAB BAR (18")	_	THE TOP OF THE GRIPPING SURFACE
	22)	GRAB BAR (24")	_	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
	23	GRAB BAR (60")	_	33" MIN./36" MAX. TO THE TOP OF THE GRIPPING SURFACE
	24)	TWO-WALL GRAB BAR	_	33" MIN./36" MAX. TO THE TOP OF THE
- FULL HEIGHT WALL TILING	NOTE:	NOT ALL ACCESSORIES MAY	BE USED.	GRIPPING SURFACE
PNT-1B WALL TILE PATTERN. RE:12/A4.12	₹ 		RE:12/A4.12	FULL HEIGHT WALL TILING ON SHOWER
			(3) (20) (24)	WALLS
		E WAINSCOT		
$ \begin{array}{c} L2 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	<b>-</b>	∽ ┭	16"-18" MINMAX.	
ELEVATIO			EI	LEVATION
8 WOMEN 1 SCALE: 1/4"=1'-0"	56			EN 155
SUALE. 1/4 =1-0		15'-10"		
<u>-0"</u>		10'-5"	2'-0", 3'-6"	
	(AAA		CALARAMANA CAL	<del></del>
<u>39</u>				.10"
		8         WOMEN           A4.11         156           (19)         19		0° 4′ -
				9,-10
	4 5			
<u>12'-5"</u>				~ ~ ~
		↓ L1 3 3 9 F.D. 6 1 1 1 1 1 1 1 1 1 1 1 1 1		3, - 4" 1, - 5
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		7 MEN		τ, ο , Ι
$\begin{array}{c} 15 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\$	5	7         MEN           A4.11         155		4'-7"
COACH (113)				
		10'-5" L2 15'-10"	2'-0" 3'-6"	
	E		PLAN	
<u>H RR 113 &amp; 123</u>		MEN 155 & W	OMEN 156	
	/ S	CALE: 1/4"=1'-0"		







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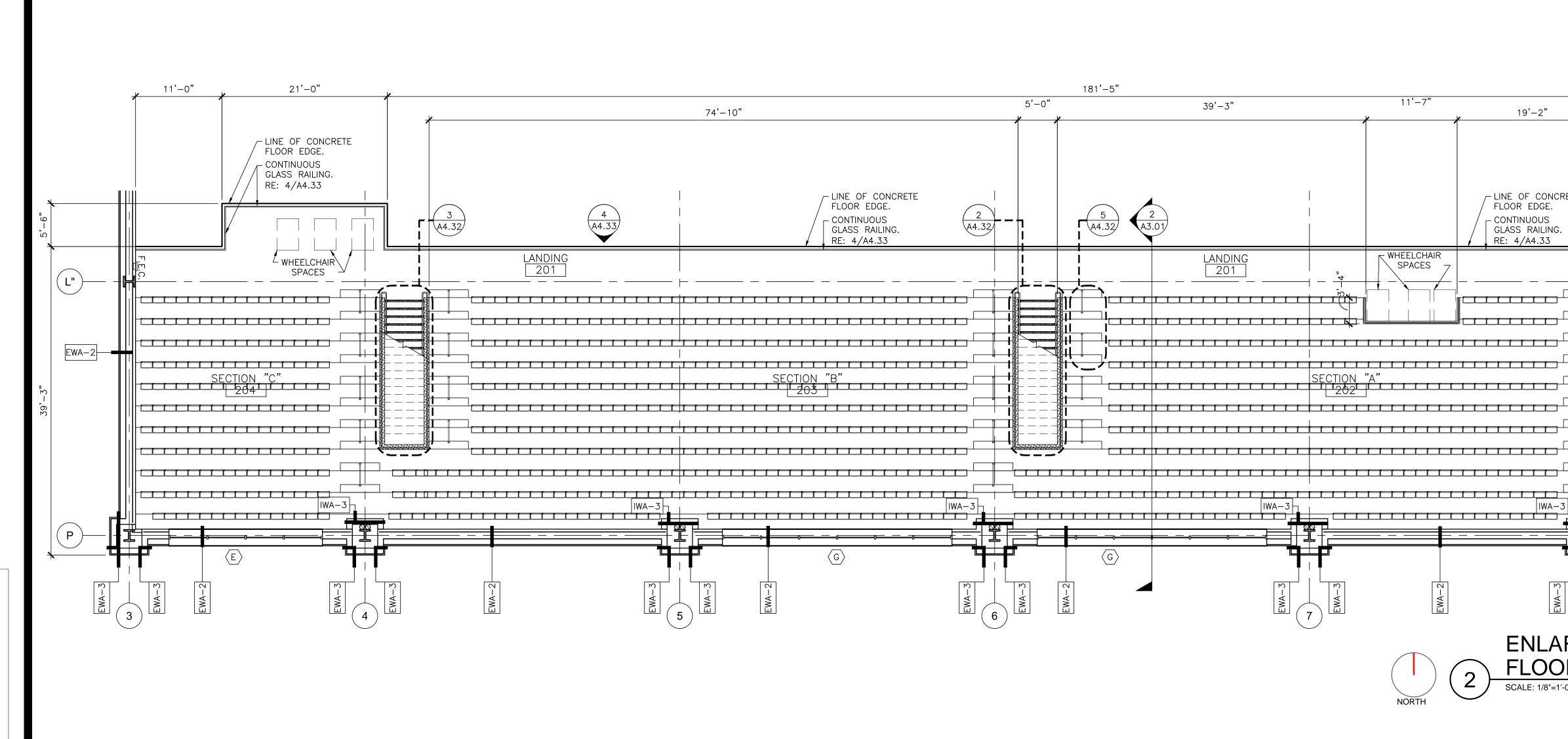
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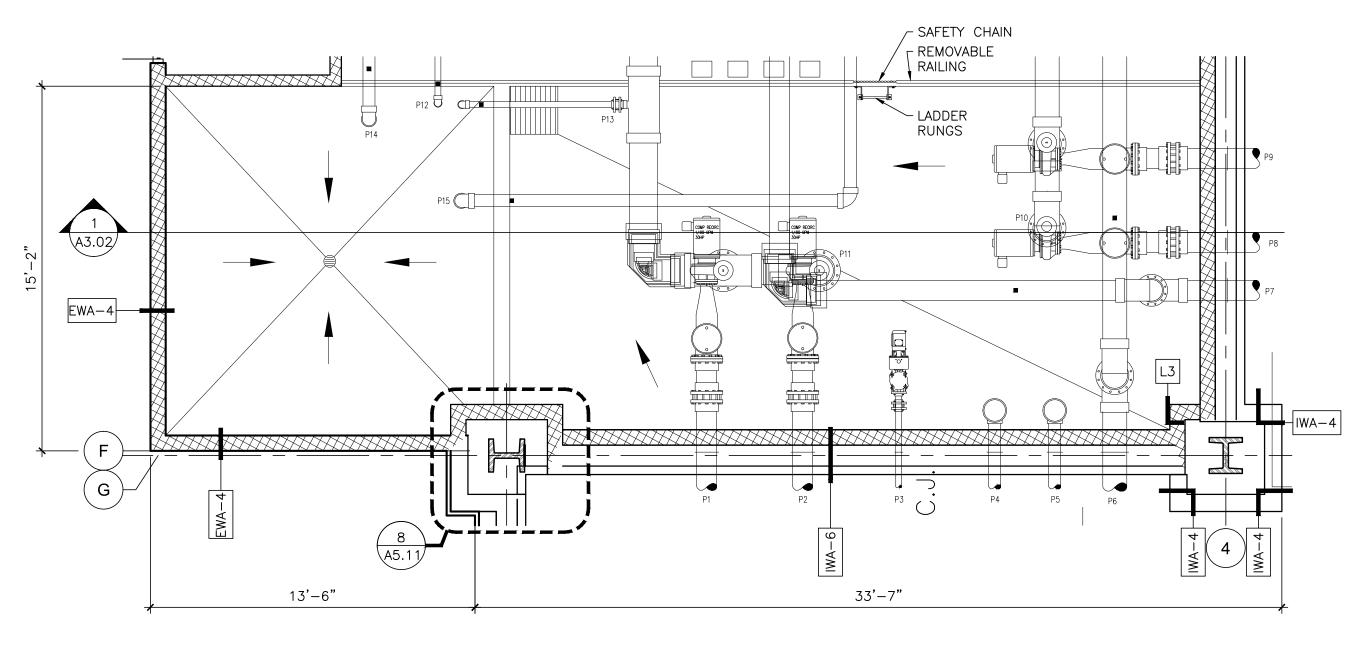
## CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577

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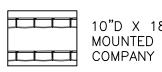
## SHEET NOTES

- 1. DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATIONS, IF NEEDED.
- 2. DO NOT SCALE DRAWINGS. IF DIMENSIONAL INFORMATION IS REQUIRED AND NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS OTHERWISE NOTED.
- 4. REFER TO STRL DWGS FOR ADDITIONAL STRUCTURAL SPECIFIC
- INFORMATION. 5. REFER TO MEP DWGS FOR ADDITIONAL MEP SPECIFIC INFORMATION.
- 6. REFER TO POOL CONSULTANT DWGS FOR ADDITIONAL POOL SPECIFIC INFORMATION.
- 7. REFER TO ROOF PLAN FOR ROOF DRAIN LOCATIONS.
- 8. REFER TO GO.01 FOR KEYS AND SYMBOLS.

## SHEET LEGEND

ALTERNATE. SEE SPECIFICATIONS.

--------- MATCH LINE

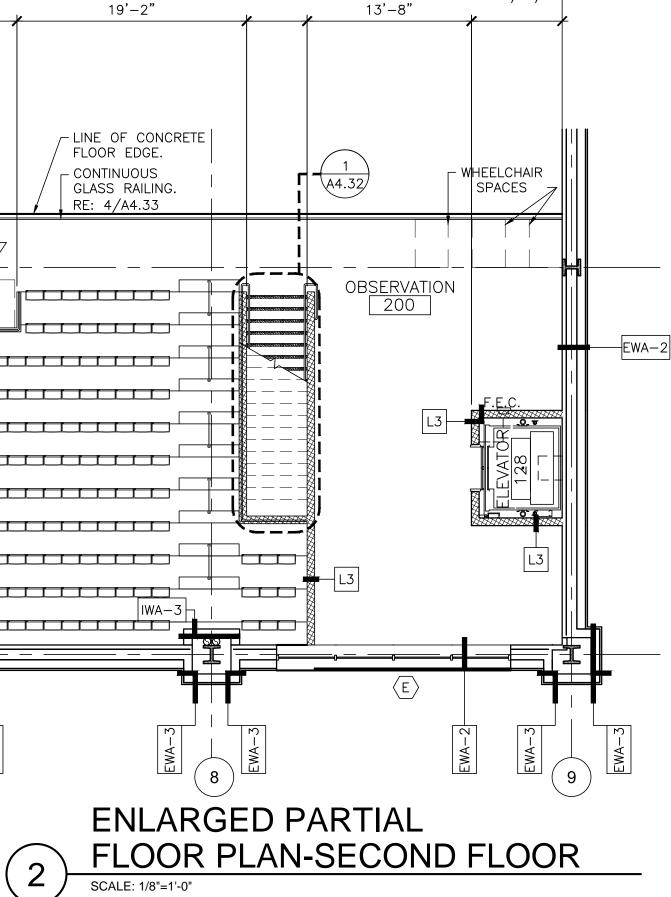


10"D X 18"W INFINITY SEATS IN COBALT BLUE, TREAD MOUNTED WITH GALVANIZED BRACKETS BY IRWIN SEATING

四 F.E.C. FIRE EXTINGUISHER IN RECESSED CABINET

## WALL LEGEND

	1HR. FIRE RATED WALL
	INTERIOR WALL TYPE RE: A6.01 FOR WALL TYPES
EWA-#	EXTERIOR WALL ASSEMBLY RE: A6.01 FOR WALL TYPES
IWA-#	INTERIOR WALL ASSEMBLY RE: A6.01 FOR WALL TYPES



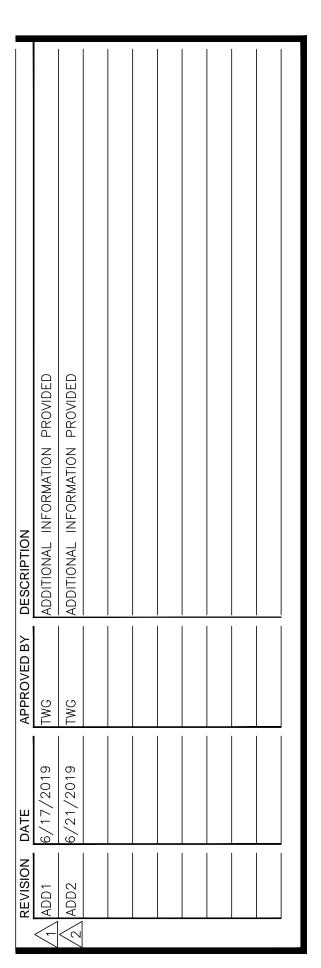
7'-7"

5'-0"

## ENLARGED PARTIAL FLOOR PLAN-FIRST FLOOR SCALE: 1/8"=1'-0"



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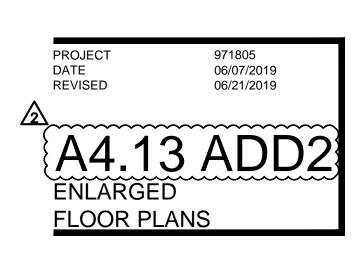


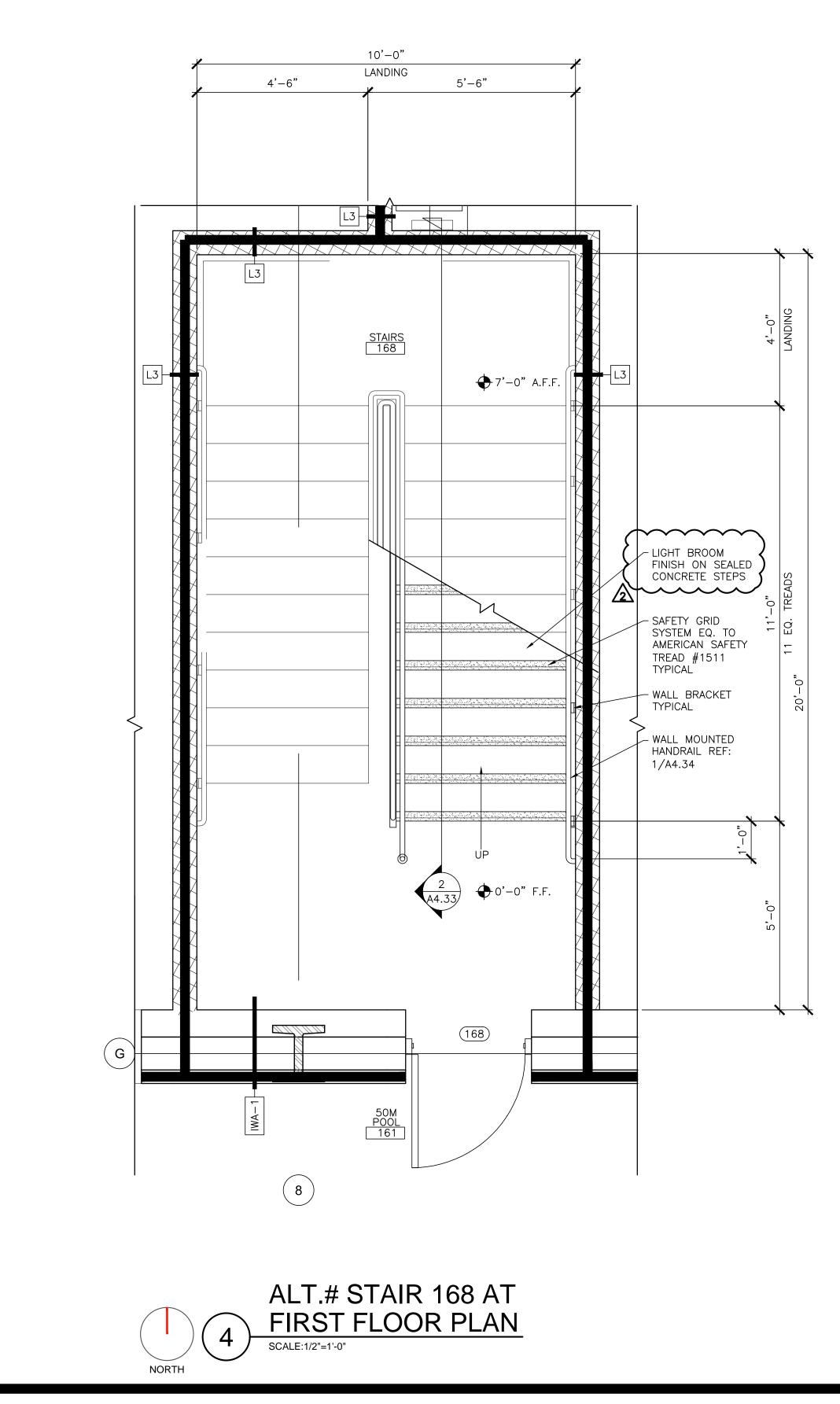


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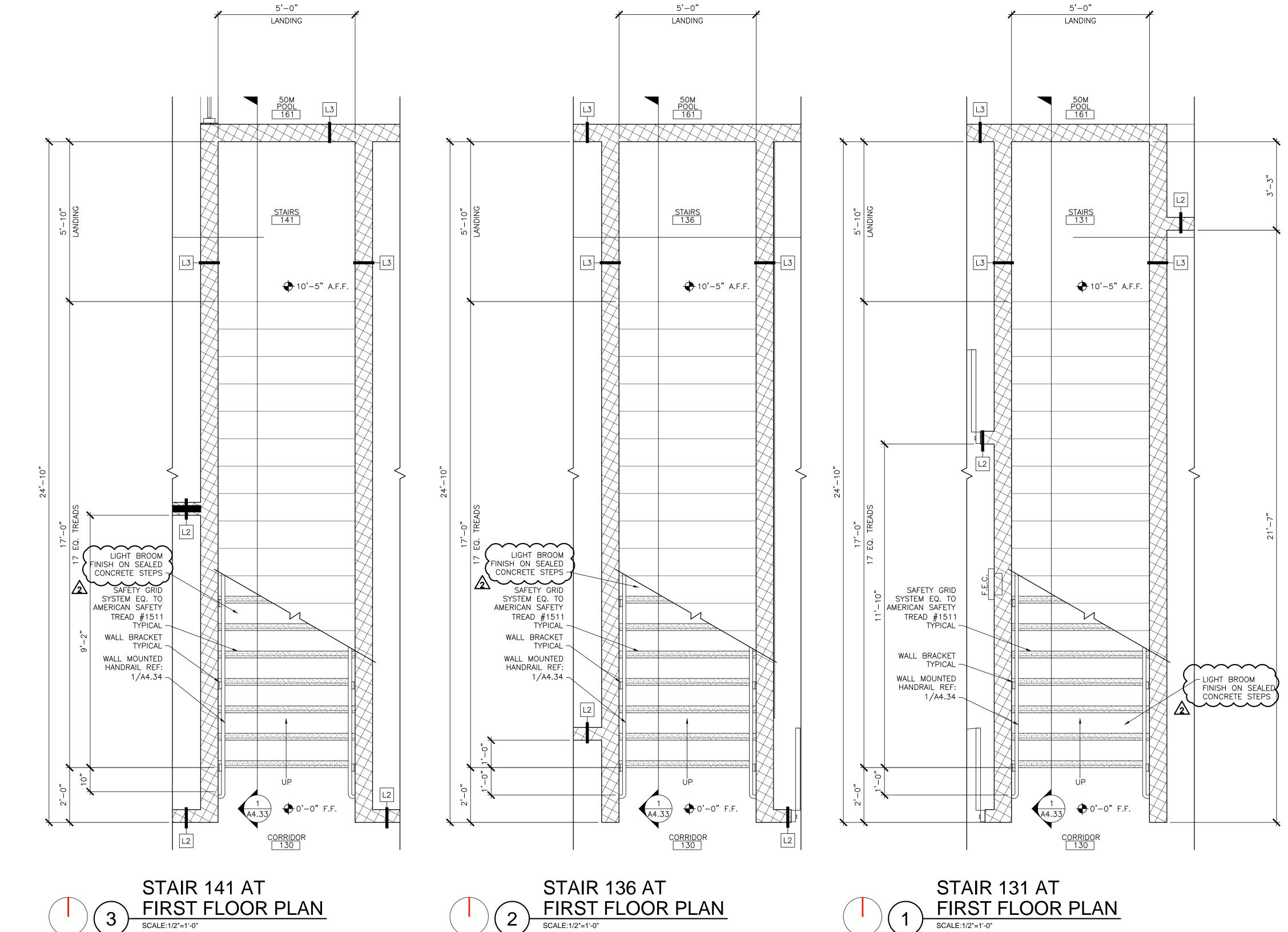
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NORTH

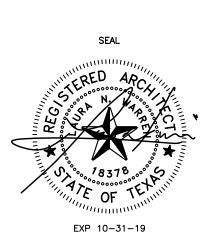
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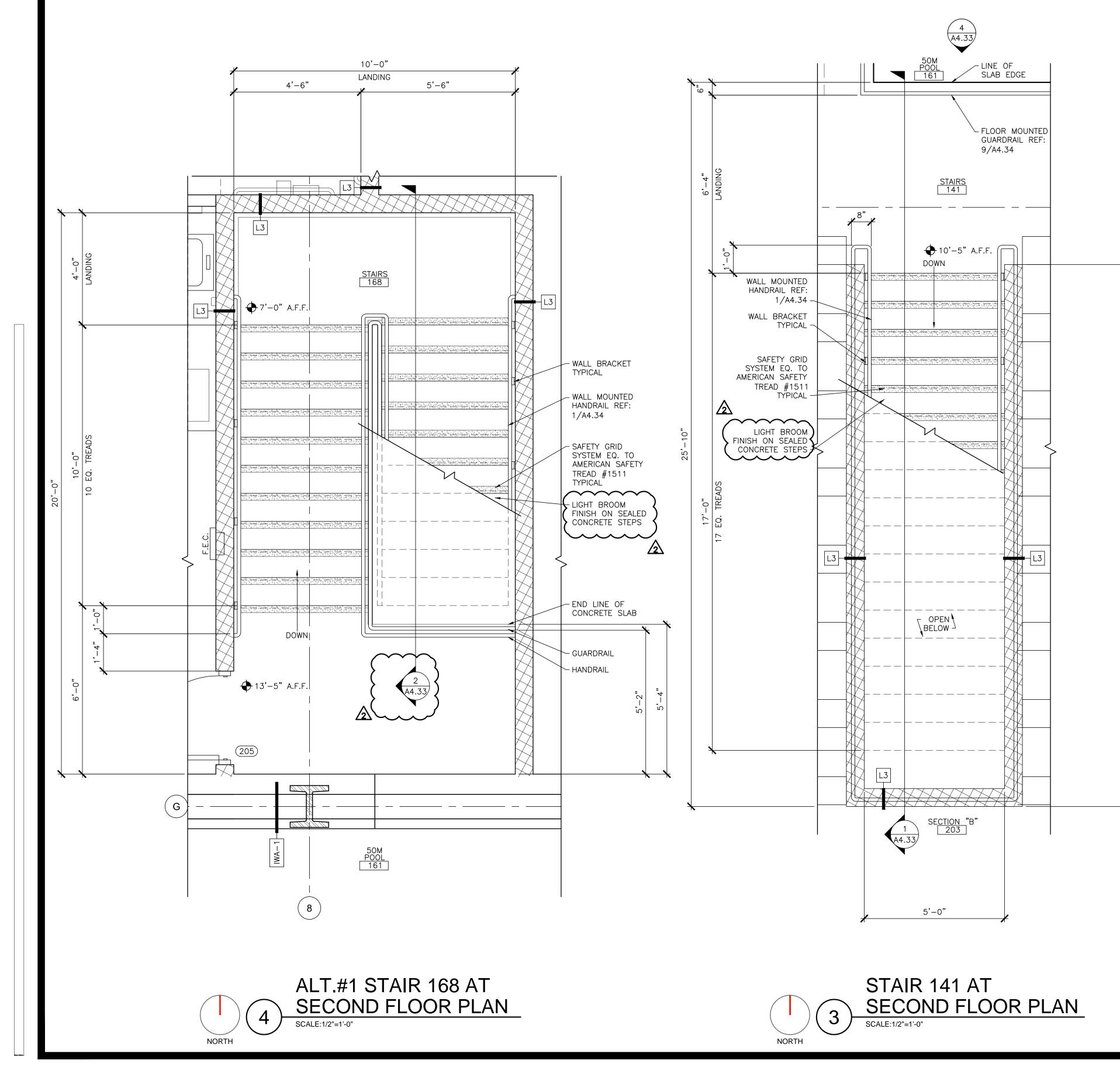
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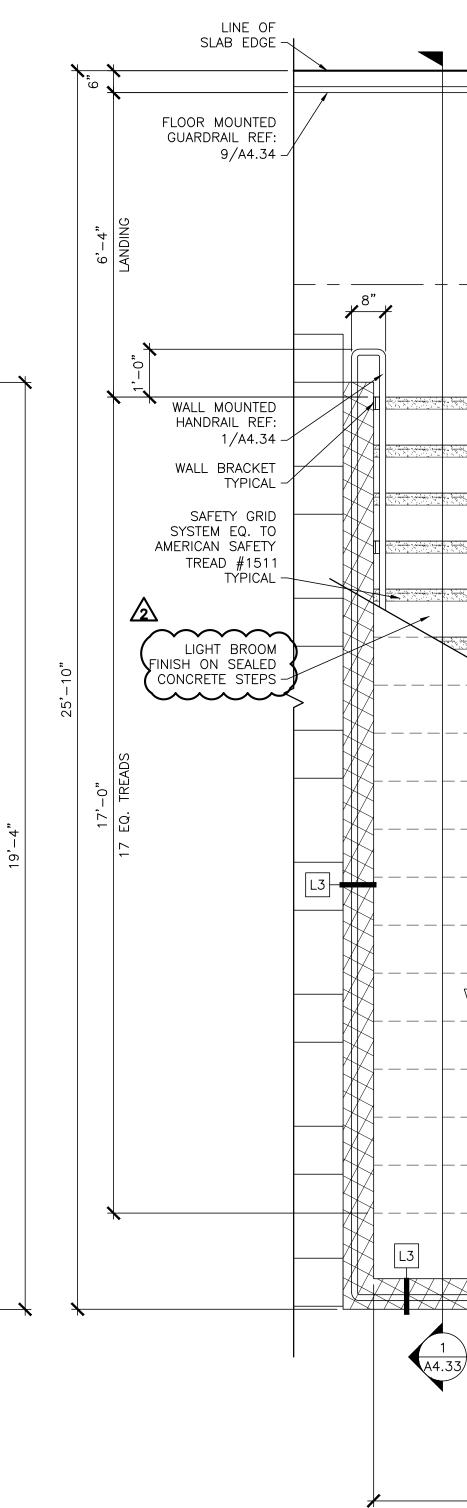
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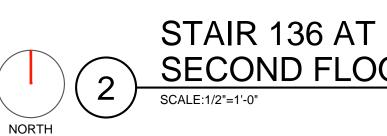


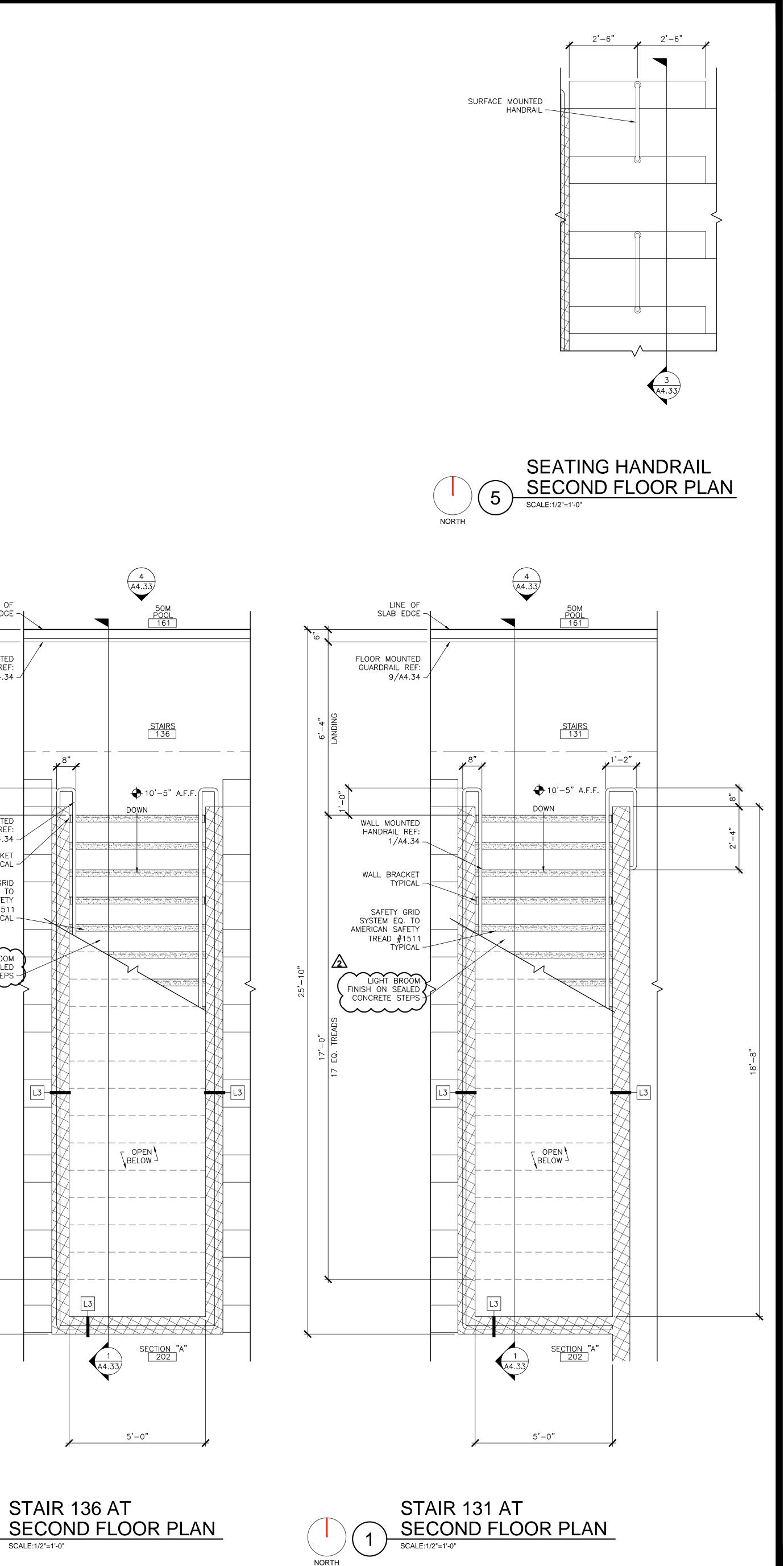
971805 06/07/2019 06/21/2019

A4.31 ADD2 ENLARGED STAIRWAY PLANS







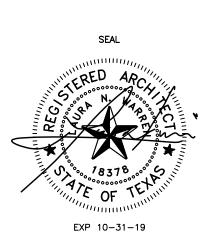




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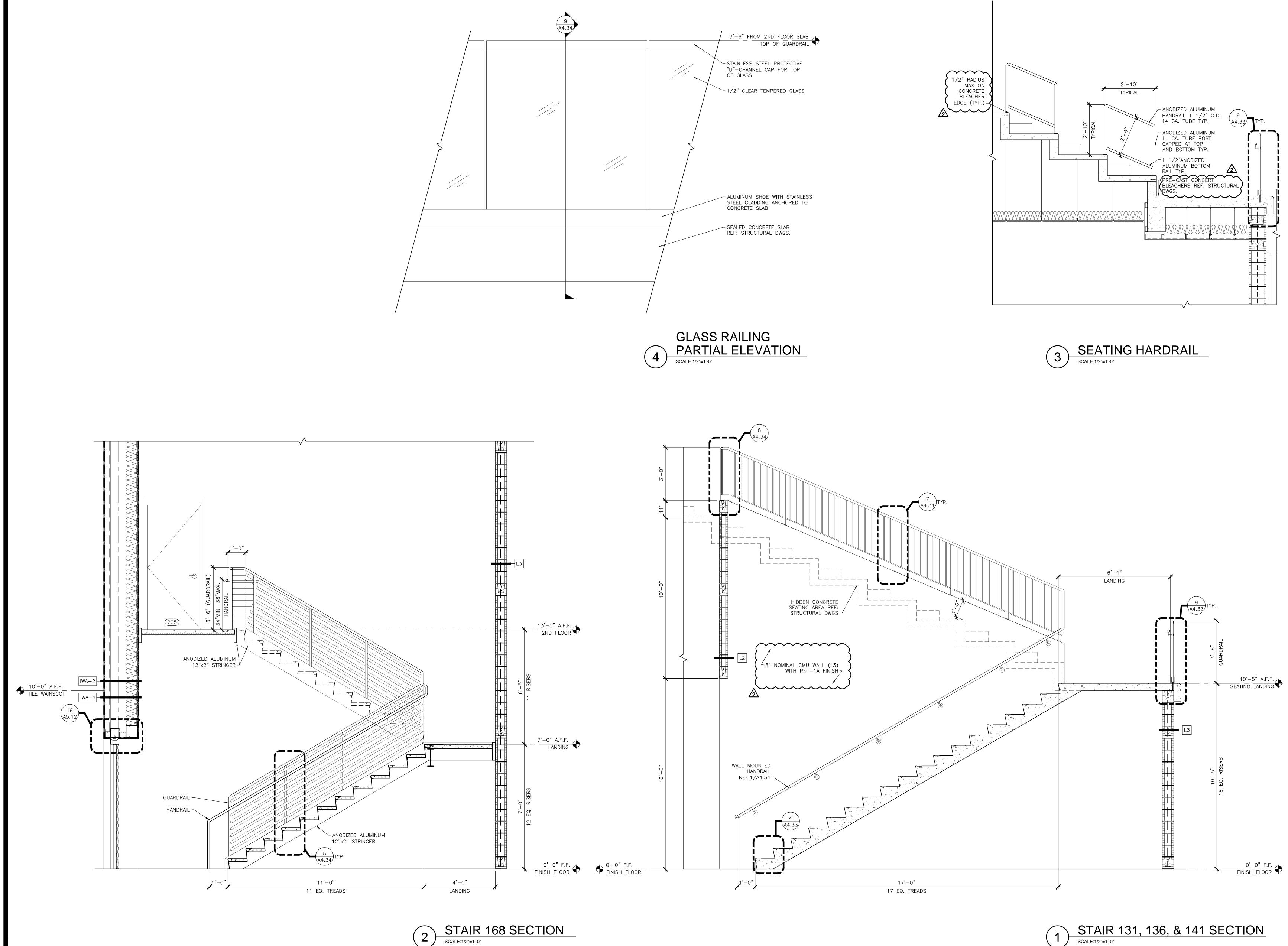
CITY OF PHARR/PSJA AQUATIC FACILITY

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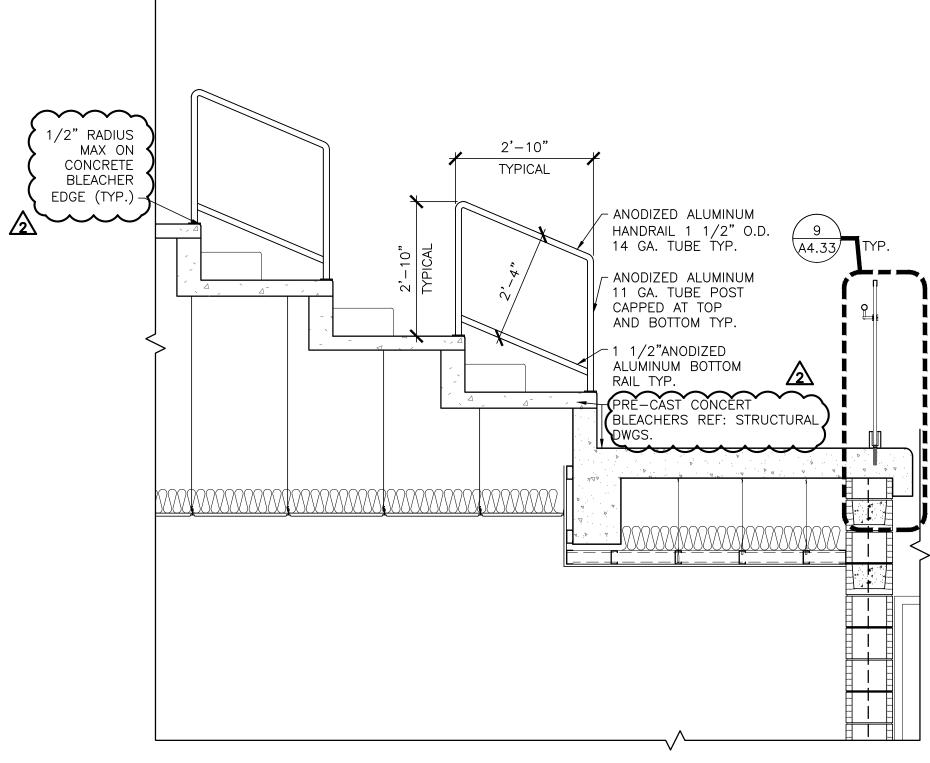
971805 06/07/2019 06/21/2019

A4.32 ADD2 ENLARGED STAIRWAY PLANS



STAIR 168 SECTION SCALE:1/2"=1'-0"

(2)



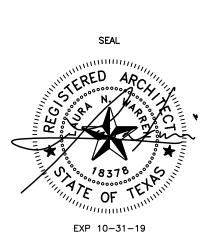




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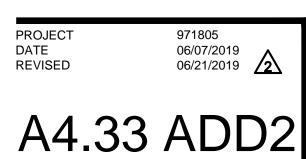


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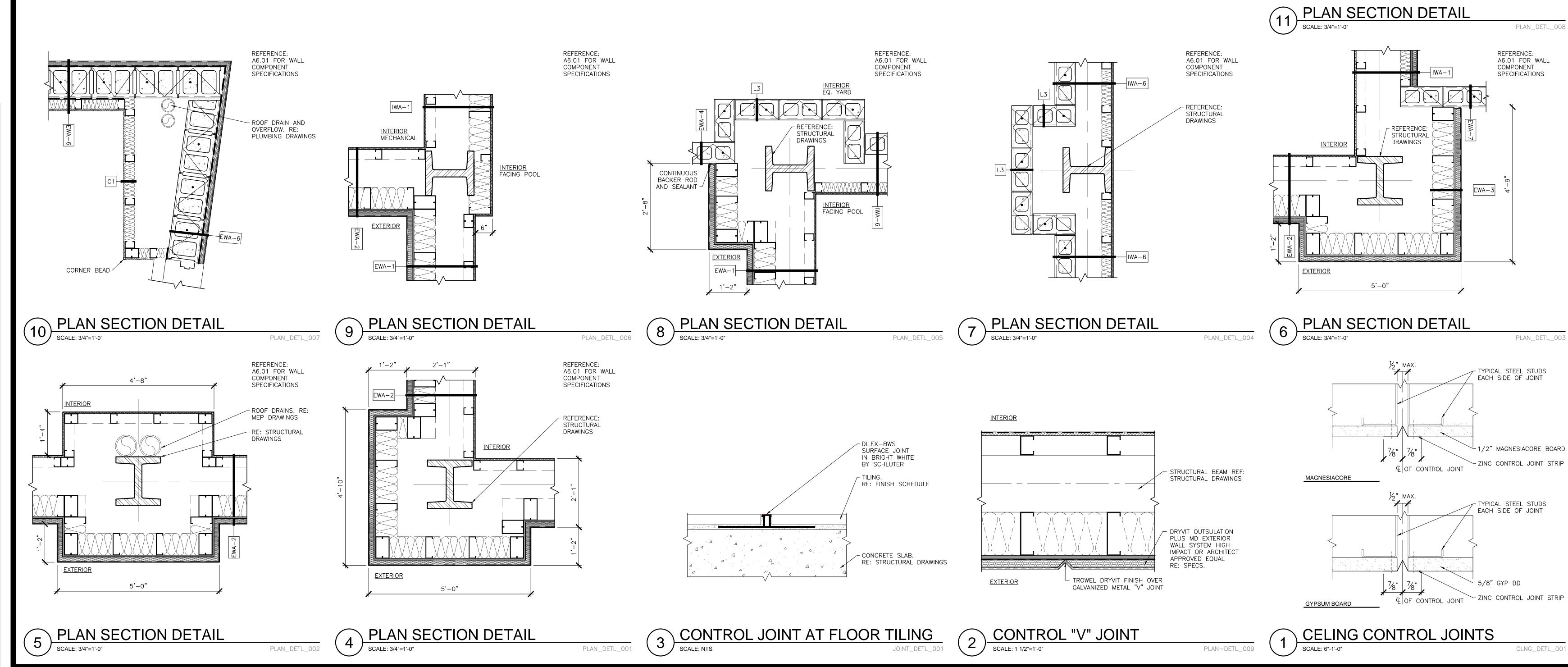
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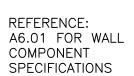
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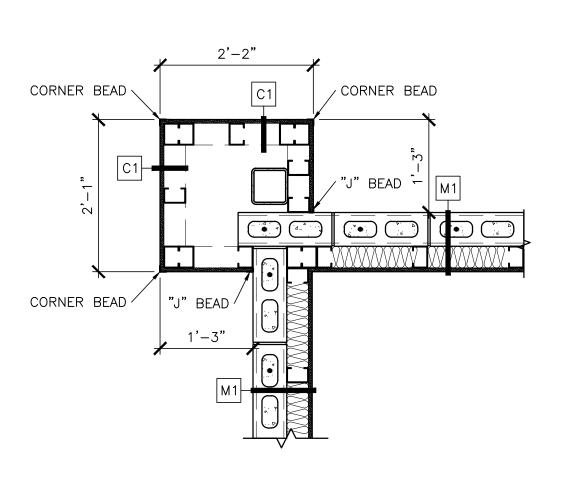
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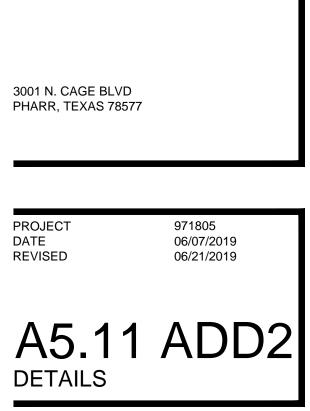
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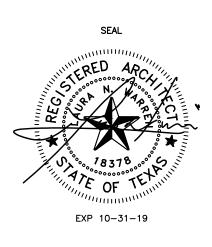


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CITY OF PHARR/PSJA AQUATIC FACILITY

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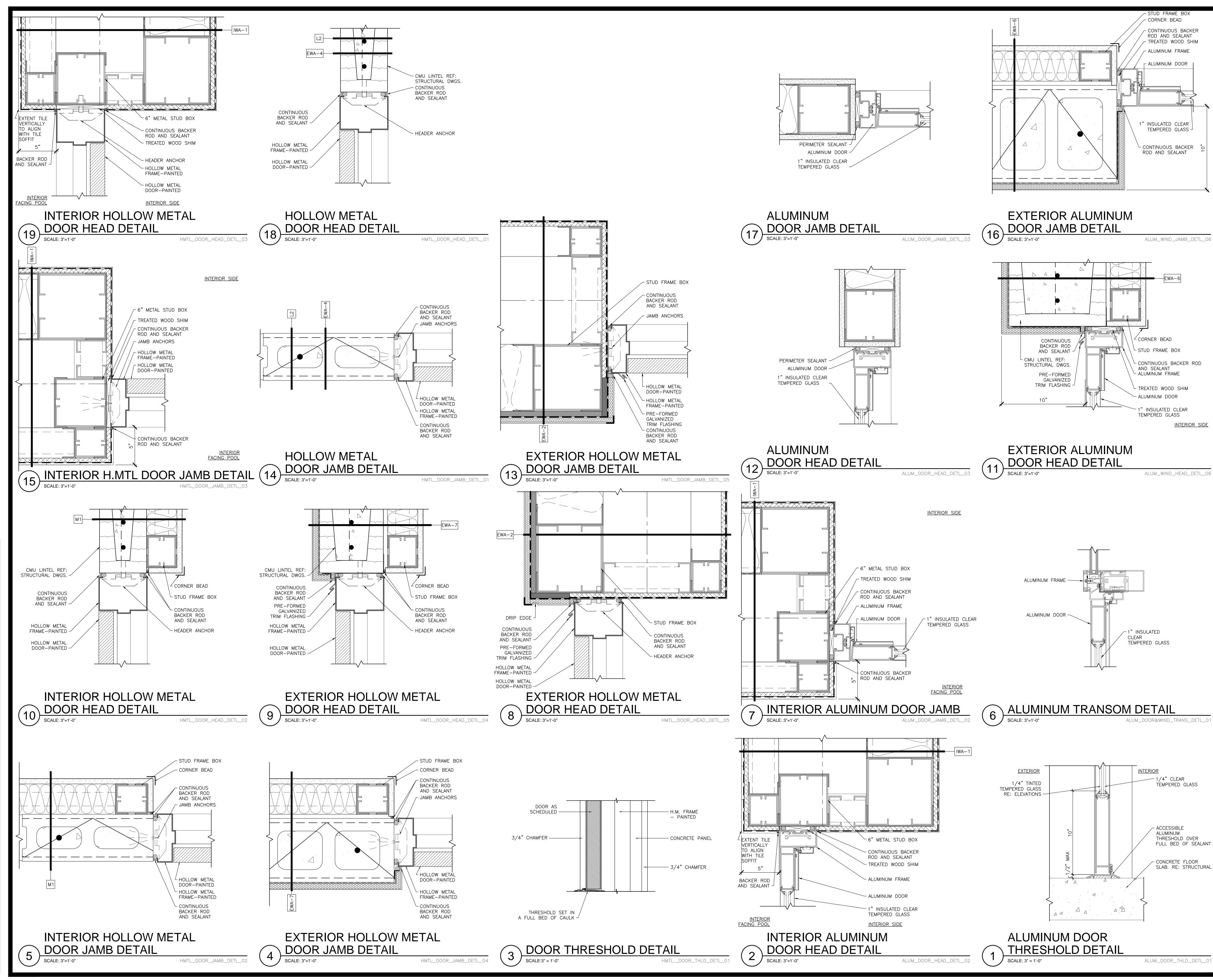
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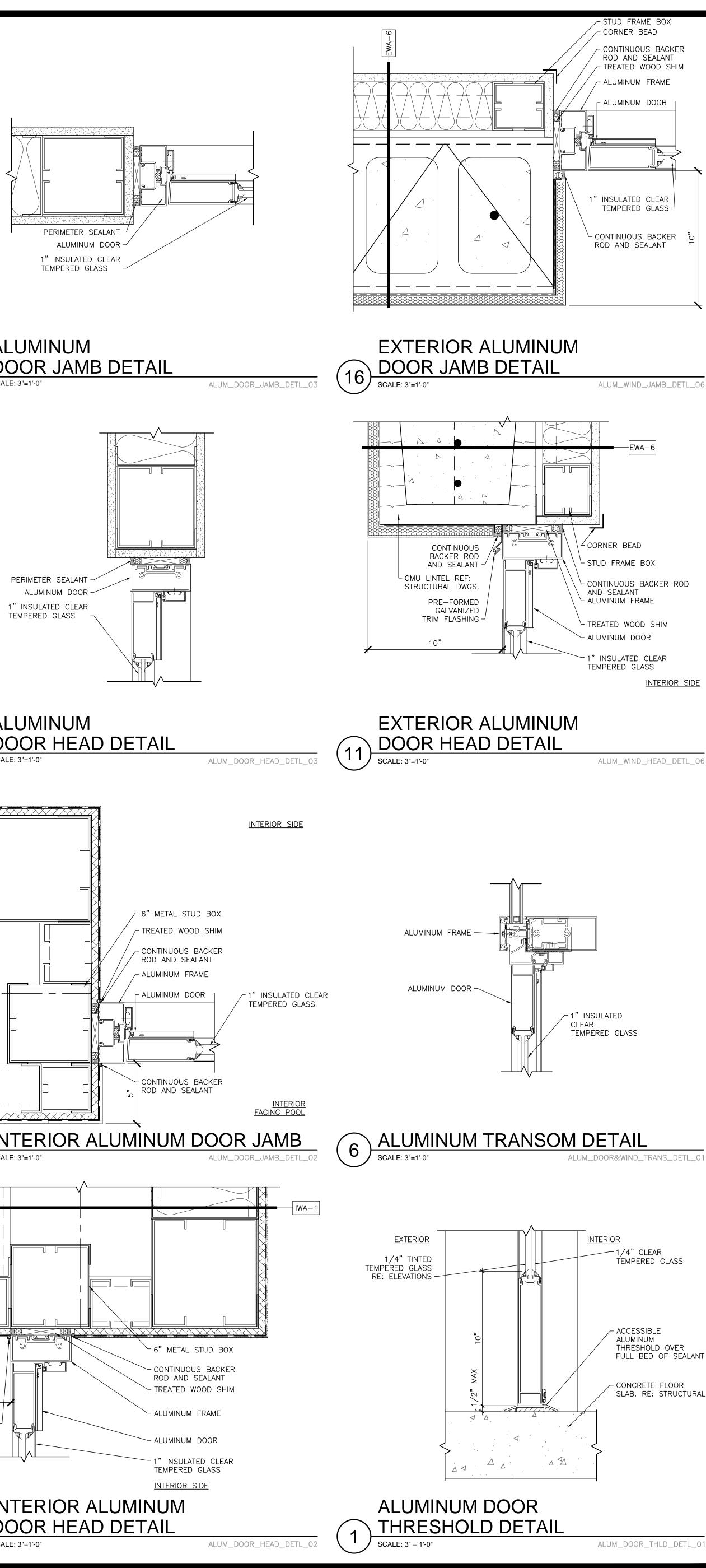
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THE WARREN GROUP ARCHITECTS, INC. 1801 SOUTH SECOND ST. SUITE 330 McALLEN, TX 78503 9 5 6 . 9 9 4 . 1 9 0 0

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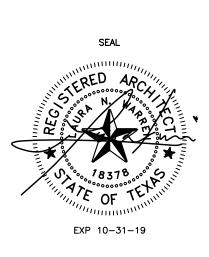




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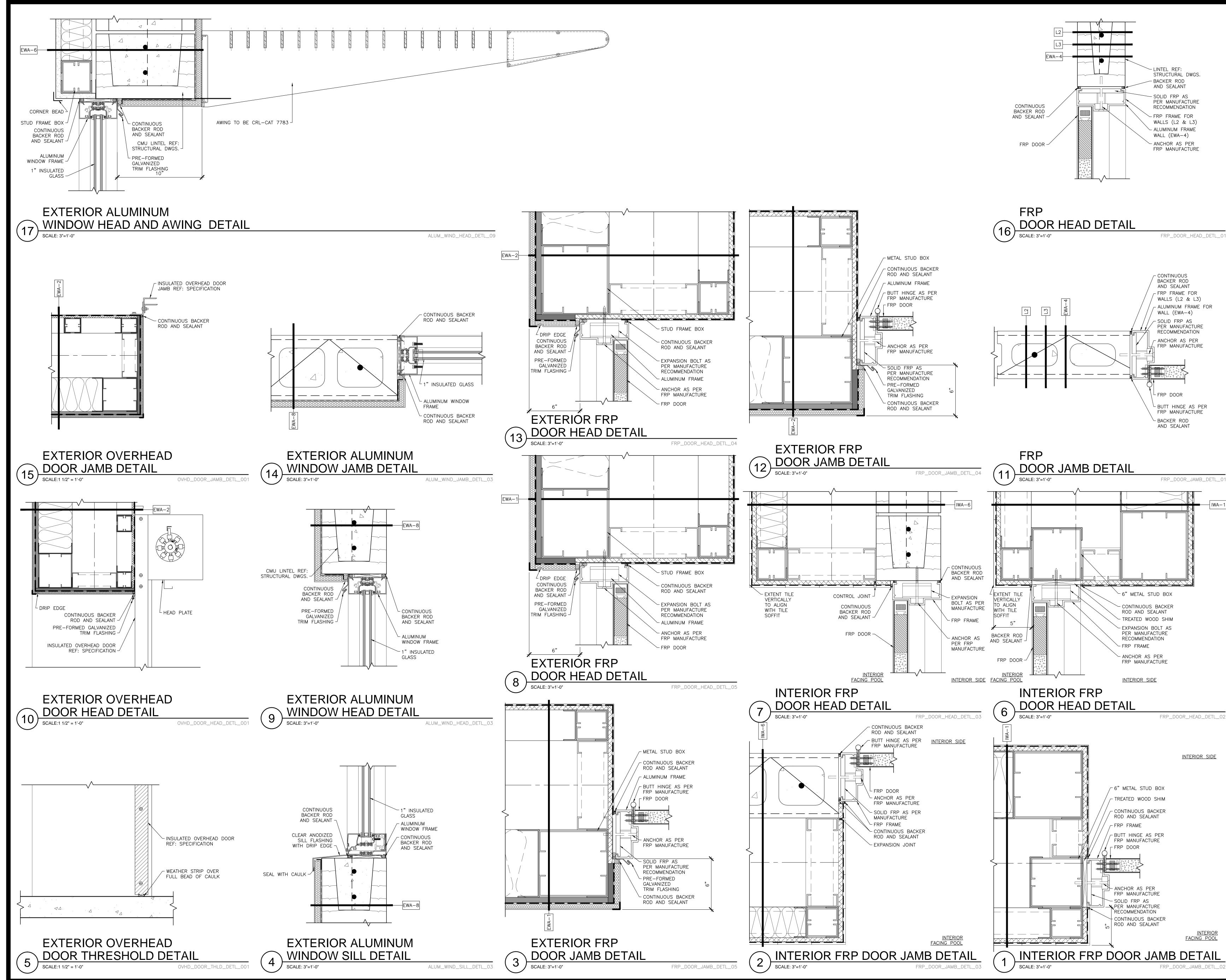
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A5.12 ADD2

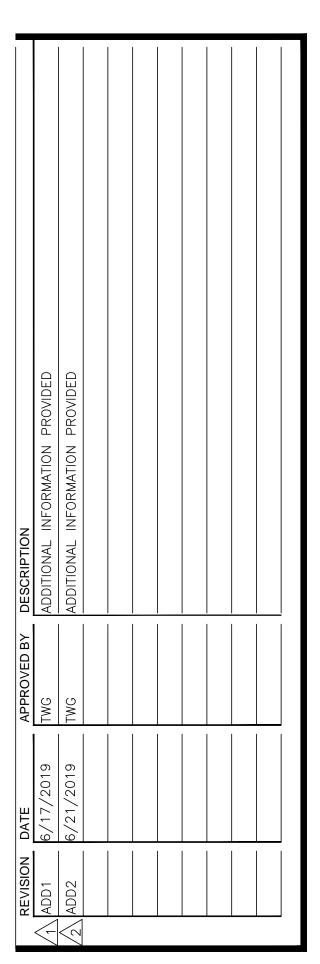
DOOR AND WINDOW





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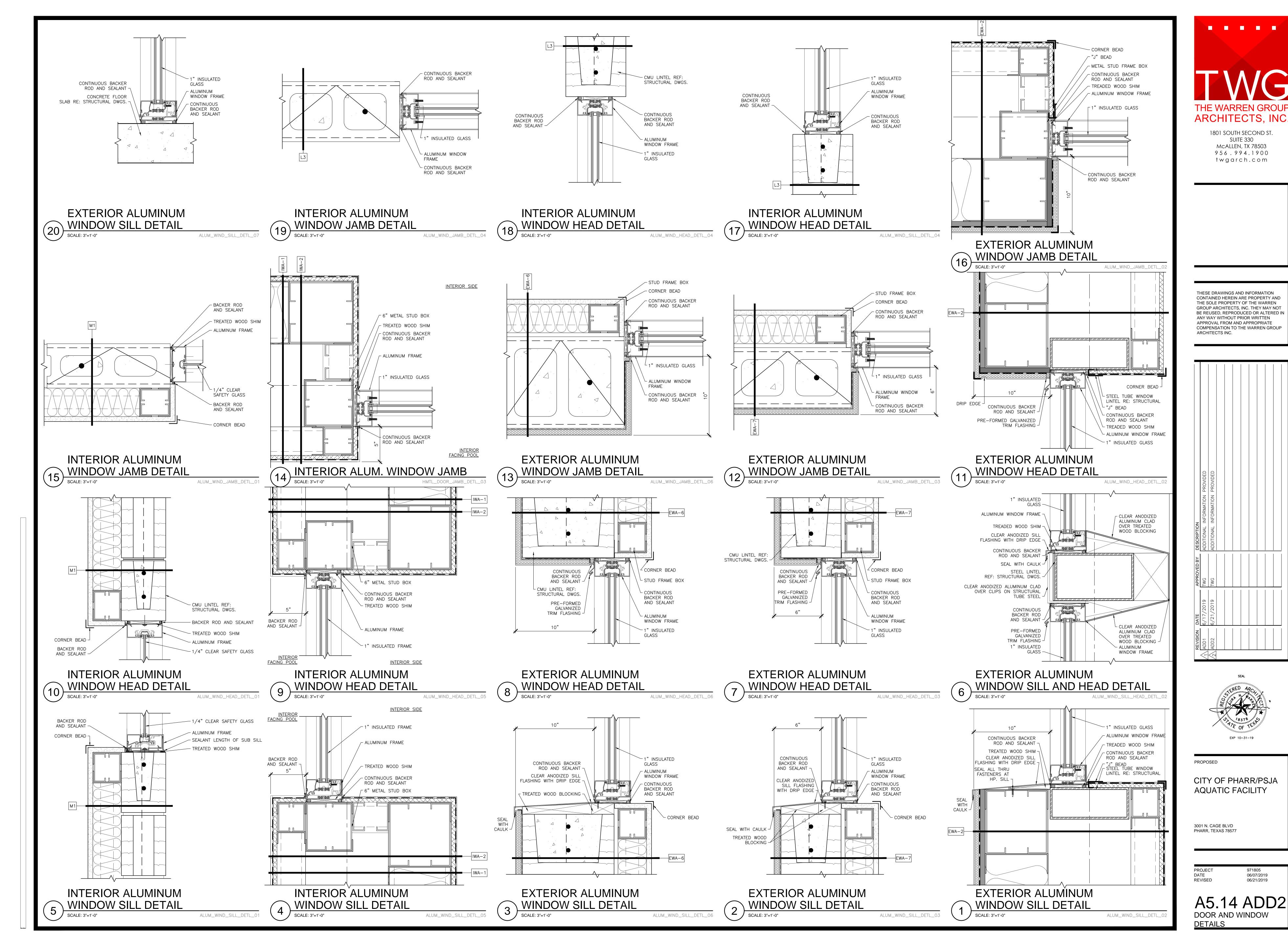
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DETAILS

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A5.13 ADD2

DOOR AND WINDOW

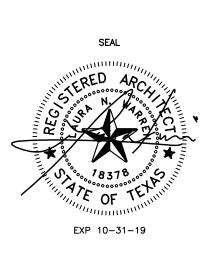




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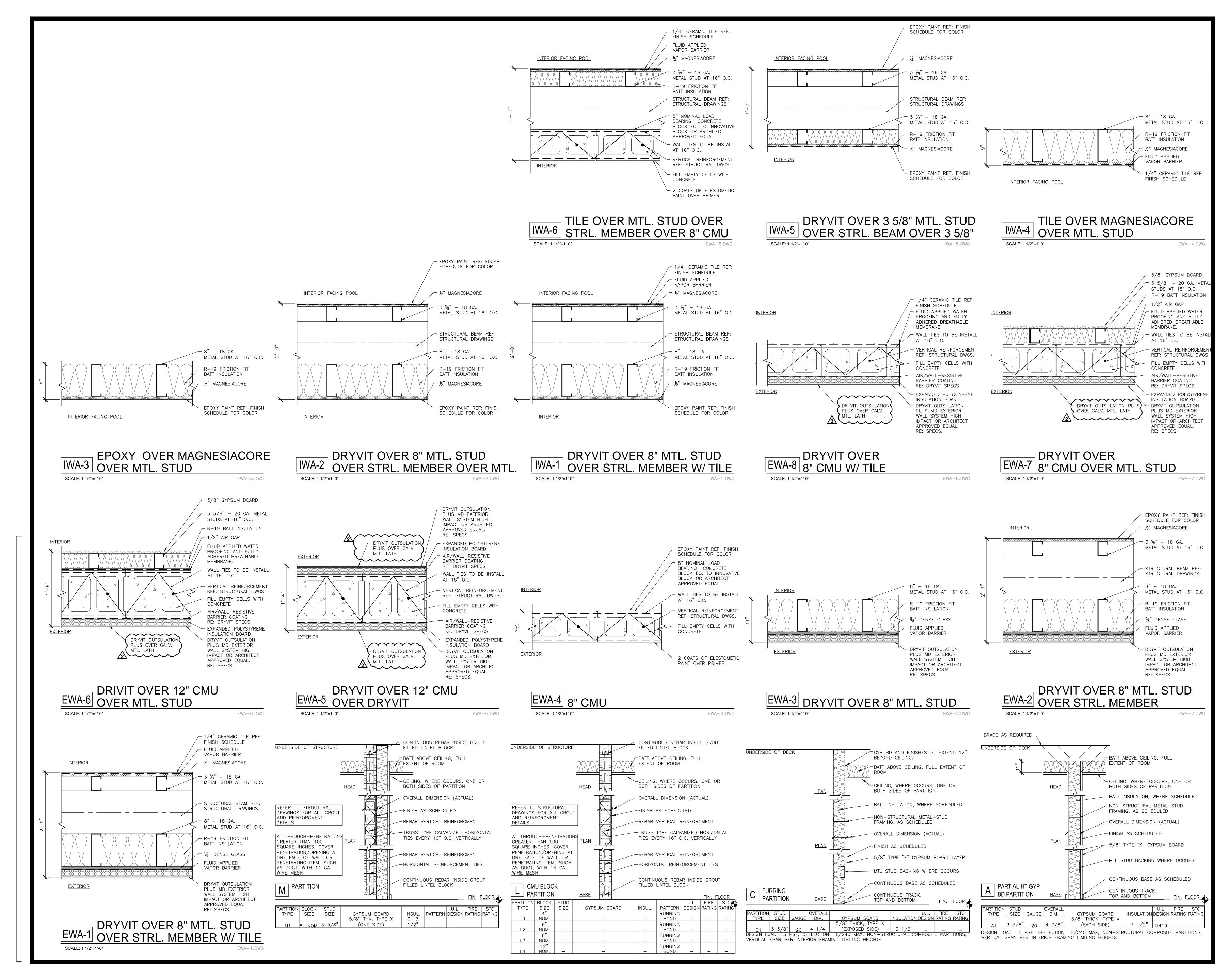
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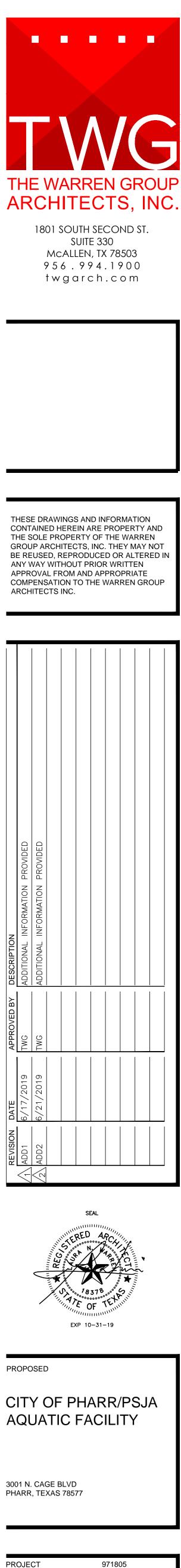
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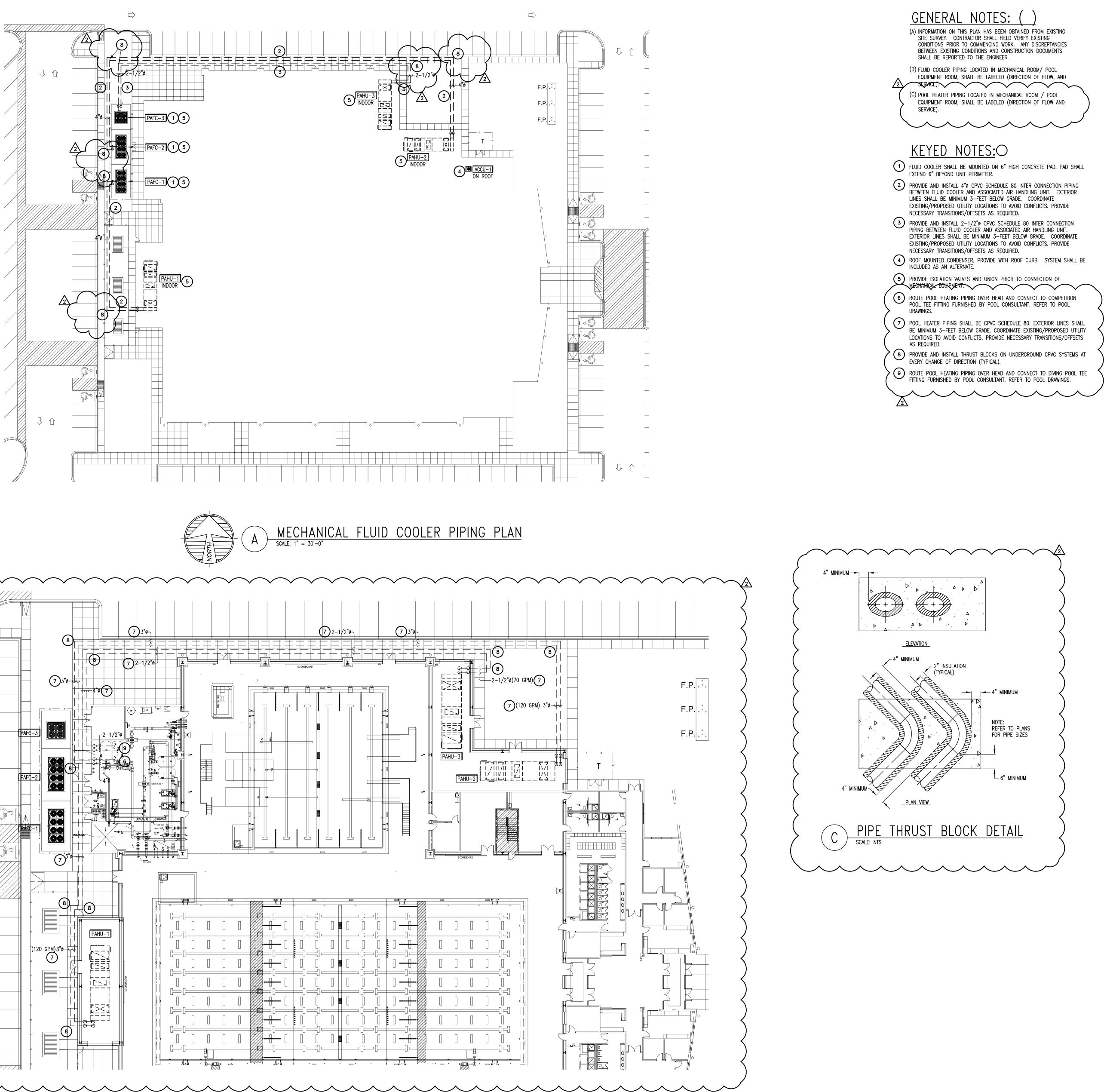
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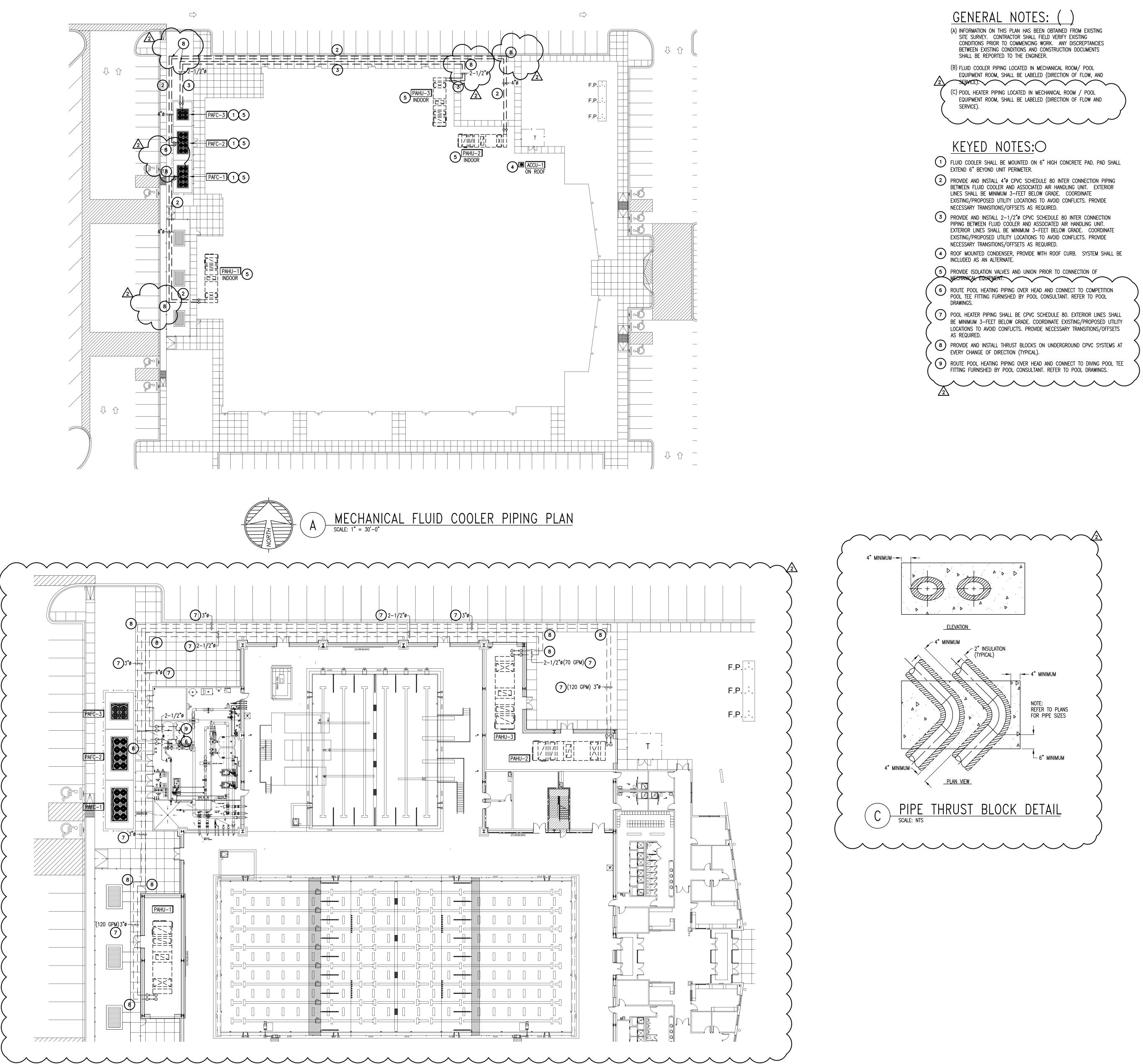
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A6.01 ADD2 WALL TYPES











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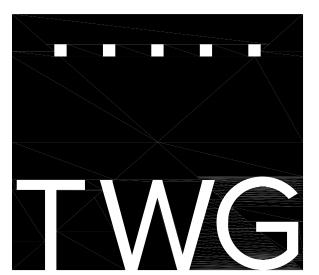
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ARCHITECTS, INC.

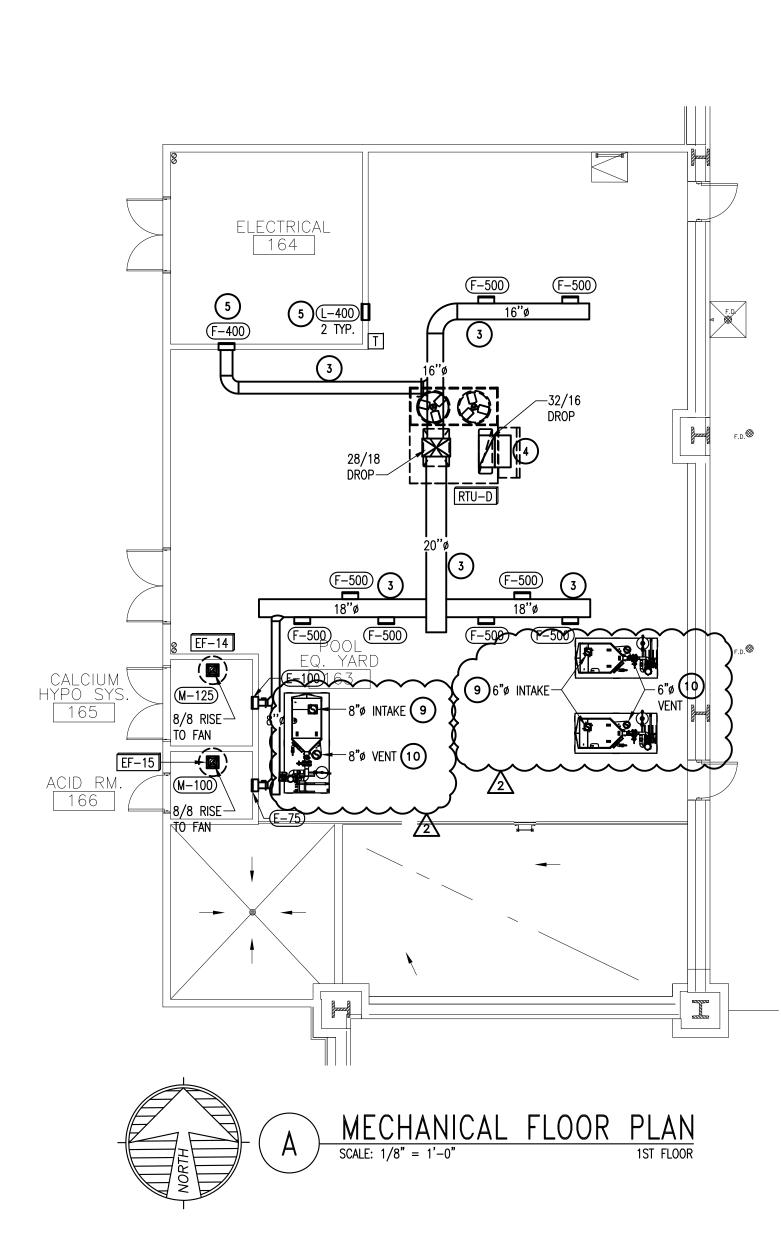
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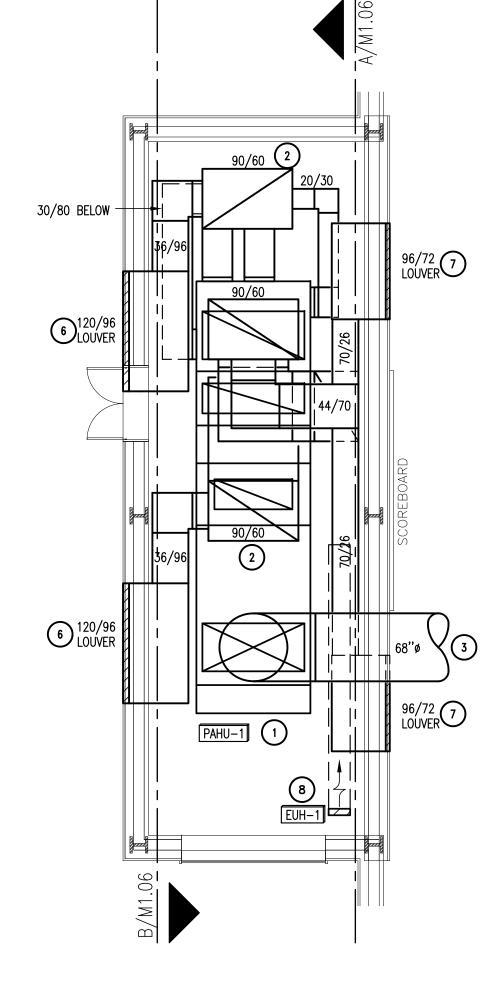
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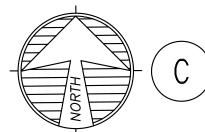
McALLEN, TX 78503

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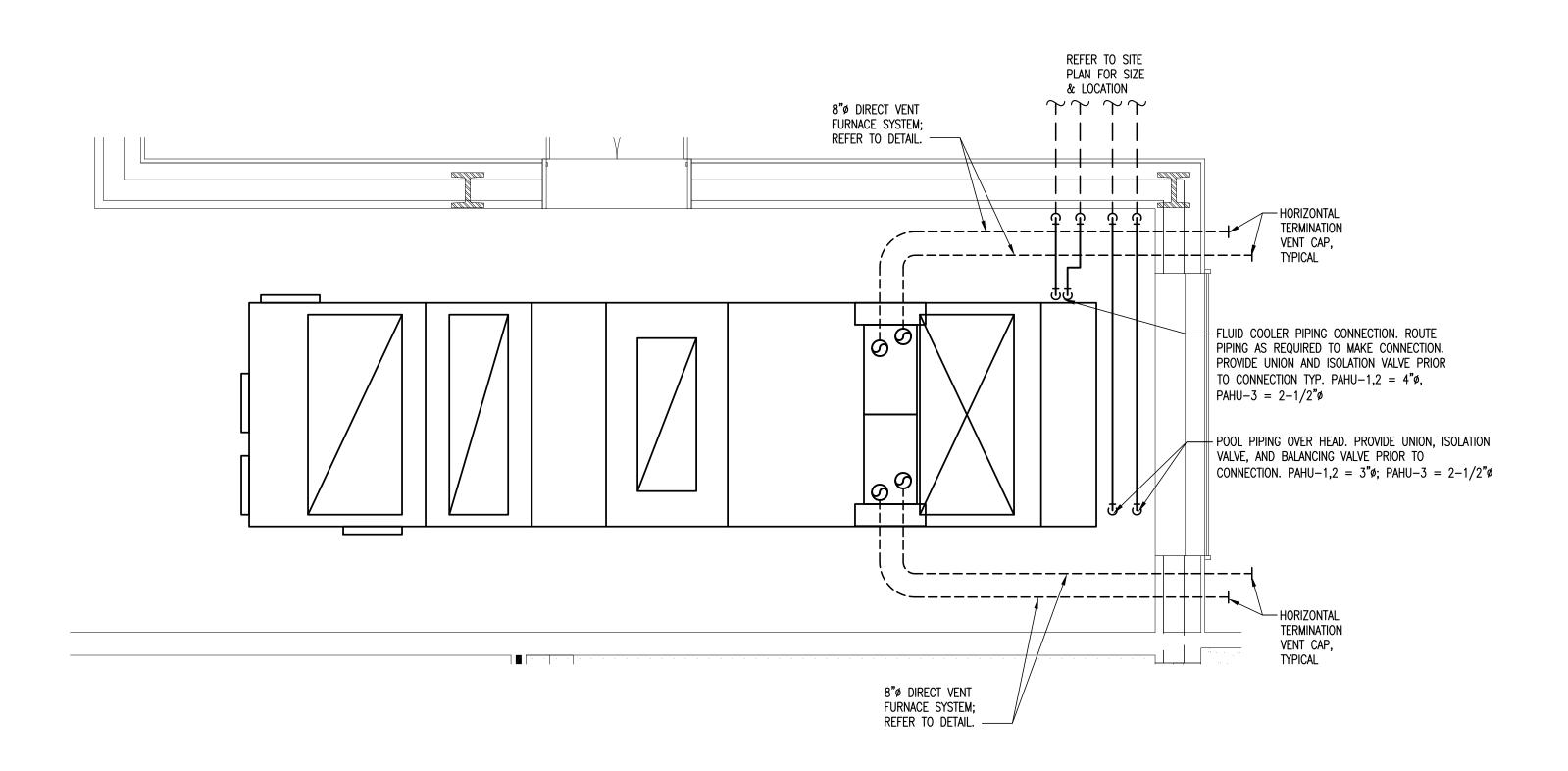


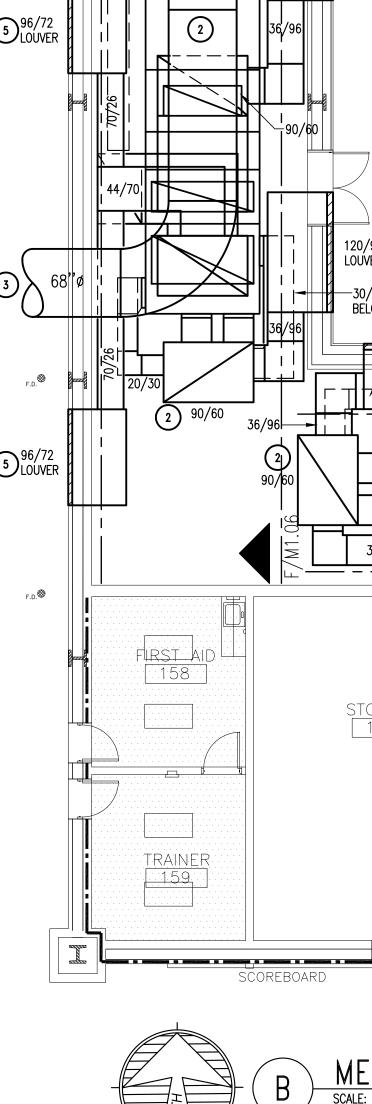




# C MECHANICAL FLOOR PLAN SCALE: 1/8" = 1'-0" 1ST FLOOR

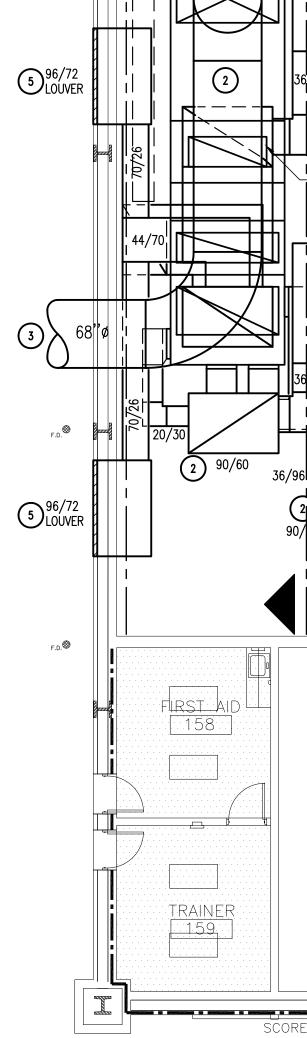






PAHU-3

120/96 LOUVER 6





30/80 44/70 <u>-68"¢</u> \_\_\_\_\_С7М1.06 STORAGE 44/70 . . . . . . . 70/26 96/72 96/72 LOUVER LOUVER 3 MECHANICAL FLOOR PLAN SCALE: 1/8" = 1'-0" 1ST FLOOR

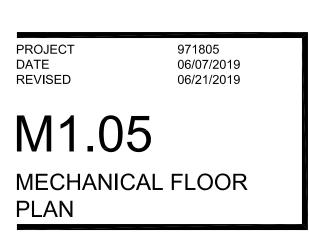
# 120/96 LOUVER 6 -30/80 **6** 120/96 BELOW 120/96 LOUVER LOUVER D/M1.0PAHU-2

# GENERAL NOTES:

- A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL MECHANICAL NOTES. B. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS FROM MECHANICAL EQUIPMENT TO DUCTS. VERIFY EQUIPMENT OUTLET/INLET SIZE WITH SCHEDULE.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.
- D. ALL DUCTWORK SERVING POOL DEHUMIDIFICATION UNITS SHALL BE ALUMINUM CONSTRUCTION.
- E. ALL EXPOSED DUCTWORK LOCATED WITHIN THE AQUATIC AREAS AND POOL
- EQUIPMENT ROOM SHALL BE DOUBLE WALL OF ALUMINUM CONSTRUCTION. F. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT
- LOCATED ABOVE INACCESSIBLE CEILINGS.
- G. CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORTS FOR ALL MECHANICAL EQUIPMENT SUSPENDED FROM STRUCTURE.
- H. CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS AND ROOFING WORK
- WITH ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ROOF WARRANTY. I. LOCATE EXHAUST HOODS/FANS MINIMUM 10-FEET FROM ANY OUTSIDE AIR
- INTAKE. J. ALL HANGERS AND SUPPORTS LOCATED WITHIN THE AQUATIC AREAS, MECHANICAL ROOMS, AND POOL EQUIPMENT ROOMS SHALL BE CORROSION RESISTANT HOT DIPPED GALVANIZED SYSTEMS.

# KEY NOTES:

- 1 AIR HANDLING UNIT SHALL BE MOUNTED ON 6-INCH HIGH CONCRETE PAD. PAD SHALL EXTEND 6-INCHES BEYOND EQUIPMENT PERIMETER.
- 2 ALL DUCTWORK INSIDE OF MECHANICAL ROOMS AND/OR CONCEALED FROM VIEW SHALL BE SINGLE WALL ALUMINUM CONSTRUCTION WITH 2-INCH FIBERGLASS
- DUCTBOARD INSULATION WITH FSK FOILFACE.
- 3 EXPOSED DUCTWORK SHALL BE 2-INCH DOUBLE WALL OF ALUMINUM CONSTRUCTION.
- PROVIDE RETURN AIR DUCT OF EQUAL SIZE OF UNIT OPENING; DROP DUCT 12-INCHES BELOW ROOF STRUCTURE AND TERMINATE WITH BIRD SCREEN.
- 5 AIR DEVICE MOUNTED ON WALL SURFACE SHALL BE PAINTED TO MATCH WALL COLOR.
- 6 PROVIDE AND INSTALL LOUVER EQUAL TO A GREENHECK MODEL "EVH-501". FURNISH WITH KYNAR FINISH, INSECT SCREEN, FLANGED FRAME, AND ALUMINUM CONSTRUCTION. COORDINATE COLOR SELECTION W/ ARCHITECT. LOUVER OCCURS TWICE, ONE ABOVE THE OTHER. REFER TO ELEVATIONS.
- PROVIDE AND INSTALL LOUVER EQUAL TO A GREENHECK MODEL "ESD-635". FURNISH WITH KYNAR FINISH, FLANGED FRAME, AND ALUMINUM CONSTRUCTION. COORDINATE COLOR SELECTION WITH ARCHITECT. LOUVER OCCURS TWICE, ONE ABOVE ANOTHER, REFER TO ELEVATIONS.
- 8 UNIT HEATER SHALL BE LOCATED MINIMUM 10-FEET ABOVE FINISHED FLOOR. MOUNT HEATER ONTO STRUCTURAL BEAM. PROVIDE ALL CONTROL WIRING AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO MANUFACTURER
- 9 PROVIDE AND INSTALL AIR INTAKE PIPE SYSTEM EQUAL TO A METAL FAB MODEL CORR/GUARD. FURNISH WITH FASTENERS, FITTINGS, AND ADAPTERS AS REQUIRED FOR A COMPLETE SYSTEM. INSTALL PER BOILER MANUFACTURER REQUIREMENTS. TERMINATE PIPING ABOVE THE ROOF; COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR.
- (10) PROVIDE AND INSTALL FLUE VENT PIPE SYSTEM EQUAL TO A METAL FAB MODEL CORR/GUARD. FURNISH WITH FASTENERS, FITTINGS, AND ADAPTERS AS REQUIRED FOR A COMPLETE SYSTEM. INSTALL PER BOILER MANUFACTURER REQUIREMENTS. TERMINATE PIPING ABOVE THE ROOF; COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR.



3001 N. CAGE BLVD PHARR, TEXAS 78577

CITY OF PHARR/PSJA AQUATIC FACILITY

PROPOSED

JAVIER 06.21.2019

	REVISION DATE	DATE	APPROVED BY	DESCRIPTION
$\mathbb{A}$		/2019	TWG	ADDITIONAL INFORMATION PROVIDED
2	ADD2	6/21/2019	TWG	ADDITIONAL INFORMATION PROVIDED
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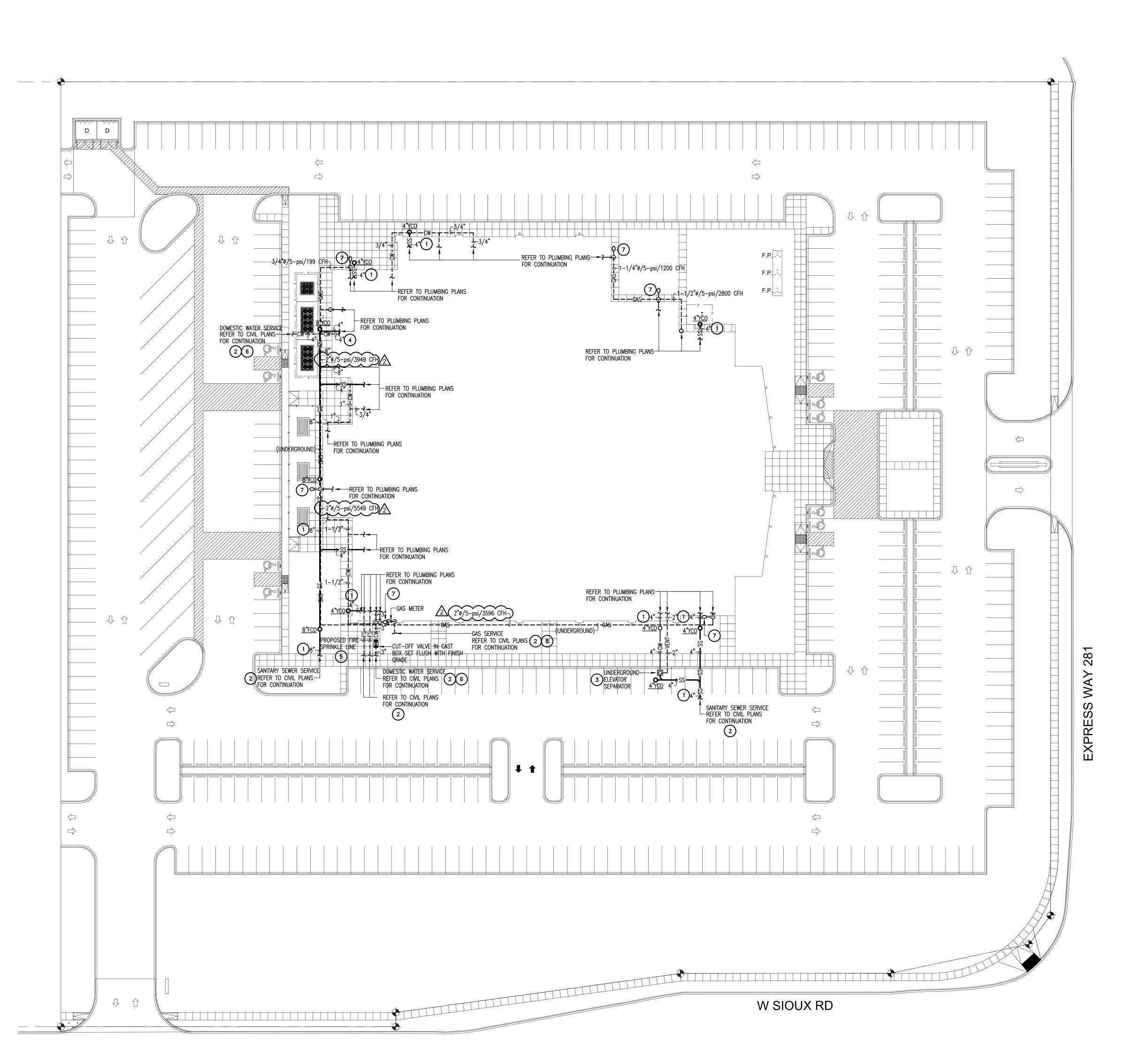
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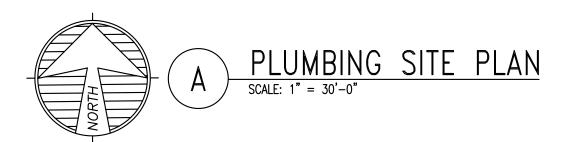
THESE DRAWINGS AND INFORMATION

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ARCHITECTS, INC.

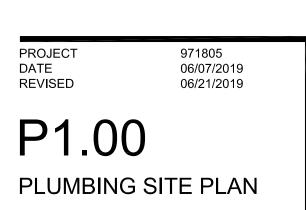






	<u>GENERAL NOTES: ( )</u>
A	(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.
	(B) ALL EXPOSED GAS PIPING SYSTEMS SHALL BE PAINTED BRIGHT YELLOW.
	<u>KEYED NOTES:</u> O
1	PROPOSED SEWER LINE. REFER TO CIVIL PLAN FOR EXACT LOCATION.
2	PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
3	OUTDOOR UNDERGROUND ELEVATOR SEPERATOR EQUAL TO PARK MODEL "ESC-100". REFER TO ELEVATOR SUMP PUMP DIAGRAM.
4	WATER LINE FOR POOL. REFER TO PLUMBING PLAN FOR CONTINUATION.
5	PROPOSED FIRE SPRINKLER SUPPLY LINE, FIRE DEPARTMENT CONNECTION AND PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. DESIGNER SHALL COORDINATE WITH ALL OTHER TRADES FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET CITY INSTALLATION REQUIREMENTS.
6	PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER LINE SIZE, AND POINT OF CONNECTION WITH CIVIL PLANS PRIOR TO BID TO AVOID CONFLICTS. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
7	EACH GAS REGULATOR SHALL BE FURNISHED WITH A SHUT-OFF VALVE UP-STREAM OF REGULATOR.
	CONNECT TO METERED GAS SERVICE PROVIDED BY GAS COMPANY. COORDINATE ROUTING AND POINT OF CONNECTION WITH GAS COMPANY PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. LINE SHALL SIZED FOR A GAS LOAD OF 9344 CFH.
SEWE WITH CONF BE F INSTA	BING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY TR LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH—IN TO AVOID FLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY ALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR FICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

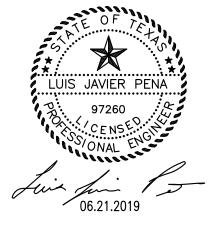




3001 N. CAGE BLVD PHARR, TEXAS 78577

CITY OF PHARR/PSJA AQUATIC FACILITY

PROPOSED



APPROVED BY DESCRIPTION	TWG ADDITIONAL INFORMATION PROVIDED	TWG ADDITIONAL INFORMATION PROVIDED					
	TWG ADDITIC						
DATE	6/17/2019	6/21/2019					
REVISION DATE	ADD1						

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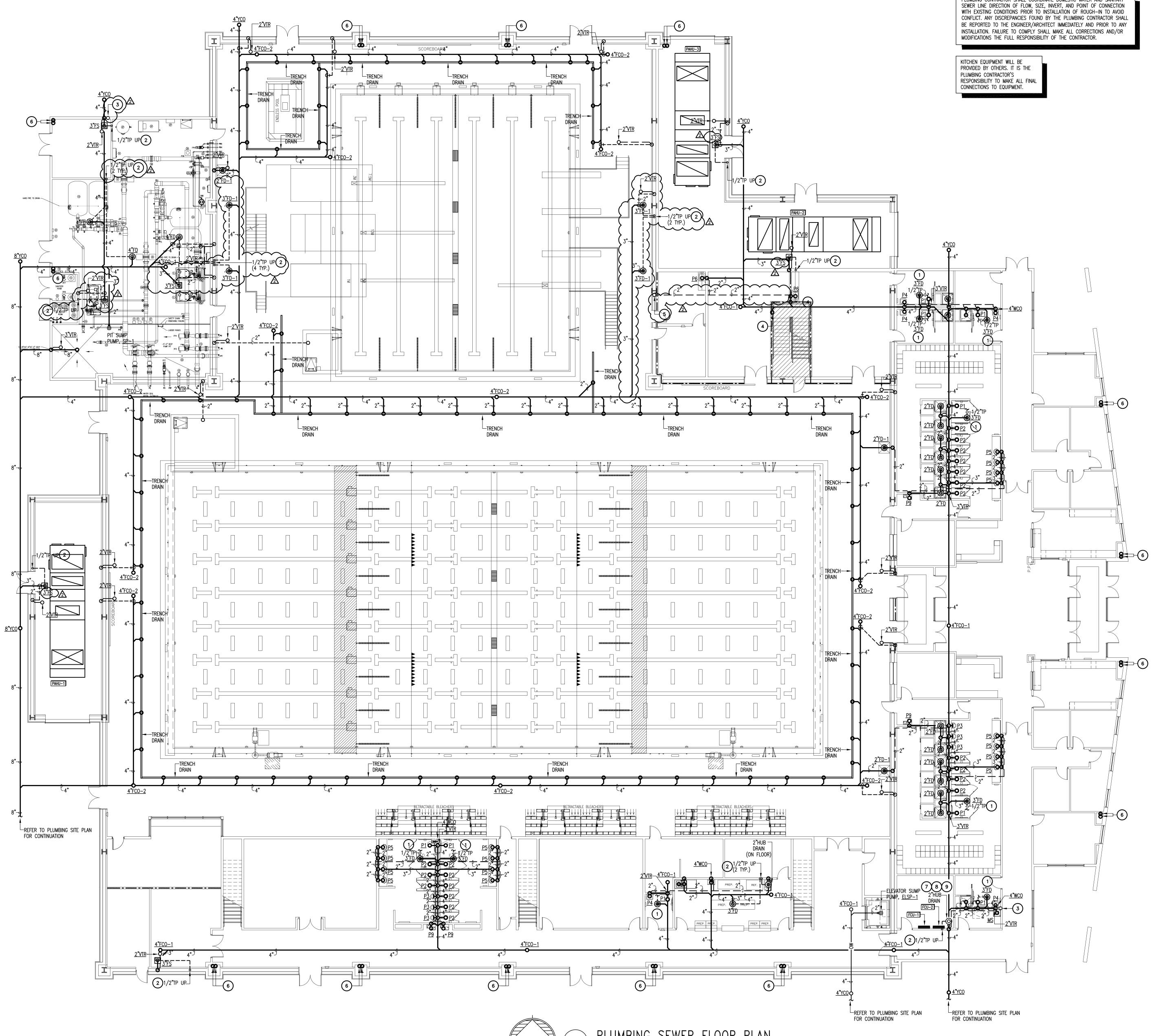


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# PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY

# <u>GENERAL NOTES: (</u>

- (A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.
- (B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

- (C) PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND

- RELATED FIXTURES.

(D) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL

PRIOR TO BEGINNING OF CONSTRUCTION

INSULATION KIT.

DOMESTIC WATER.

PLUMBING FIXTURES

SURROUNDING SURFACE.

CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK

(E) INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH

(F) PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO

(G) REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL

(H) PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN

OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH

(I) SAW CUT EXISTING SLAB AS REQUIRED TO ACCOMODATE NEW PLUMBING FIXTURE ROUGH-IN.

(J) ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.

- <u>KEY NOTES:</u> O
- 1 PROVIDE TRAP PRIMER CONNECTION FROM NEAREST FLUSH VALVE TRAP PRIMER, REFER TO DETAIL.
- 2 REFER TO HW/CW FLOOR PLAN FOR CONTINUATION OF PRIMER LINE AND TRAP PRIMER LOCATION ABOVE CEILING.
- 3 RISE CONDENSATE DRAIN LINE UP ALONG WALL CAVITIES TO HIGHER LEVEL.
- (4) RISE SEWER LINE UP ALONG WALL CAVITIES TO HIGHER LEVEL SHALL BE PART OF ALTERNATE #1. REFER TO ARCHITECTURAL
- DRAWINGS. 5) RISE VENT LINE UP ALONG WALL CAVITIES TO HIGHER LEVEL.
- 6 RISE STORM SEWER UP TO HIGHER LEVEL.
- COORDINATE HUB DRAIN LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
- 8 provide and install fire rated access door equal to a elm model "fr-16x16"; door shall service hub drain, refer to DETAIL.
- 9 provide and install  $\frac{3}{4}$ " copper condensate drain line from unit to hub drain. Refer to detail.





3001 N. CAGE BLVD PHARR, TEXAS 78577

PROJECT

**CITY OF PHARR/PSJA** AQUATIC FACILITY

PROPOSED



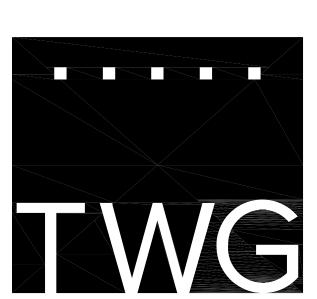
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APPROVED BY	TWG	TWG					
DATE	6/17/2019	6/21/2019					
REVISION DATE							

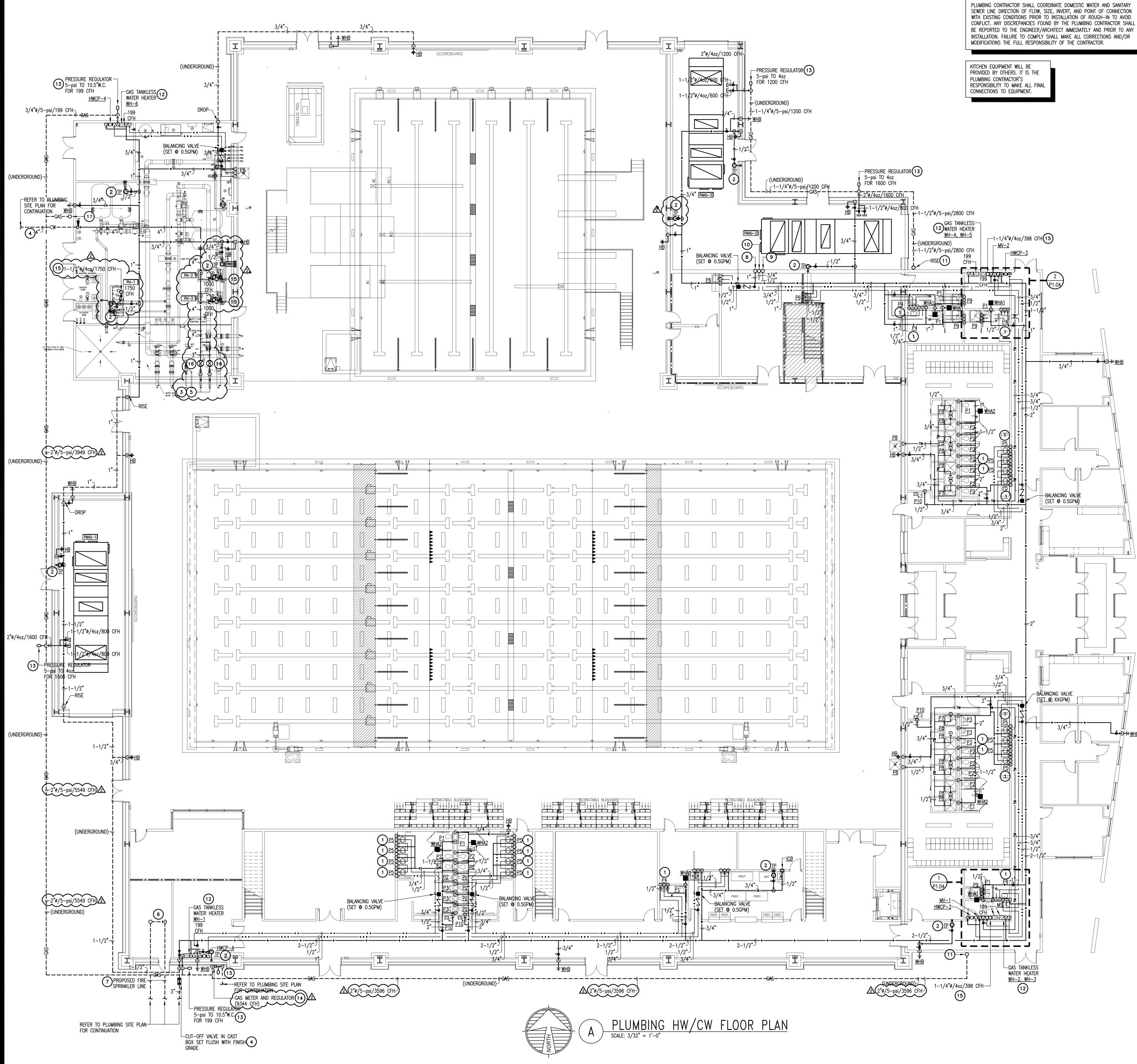
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THE WARREN GROUP





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- (C) PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES. (D) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL
- CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION (E) INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH
- INSULATION KIT.
- (F) PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
- (G) REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES (H) PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN
- OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH SURROUNDING SURFACE.
- (I) SAW CUT EXISTING SLAB AS REQUIRED TO ACCOMODATE NEW PLUMBING , FIXTURE ROUGH-IN. (J) ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF.
- ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.
- (K) PROVIDE AND INSTALL 1-FOOT OF GAS LINE DRIP LEG PRIOR TO CONNECTION OF FUEL BURNING EQUIPMENT. (L) ALL EXPOSED GAS PIPING SYSTEMS SHALL BE PAINTED BRIGHT YELLOW.

### <u>KEY NOTES:</u> O 1) FIXTURE SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE

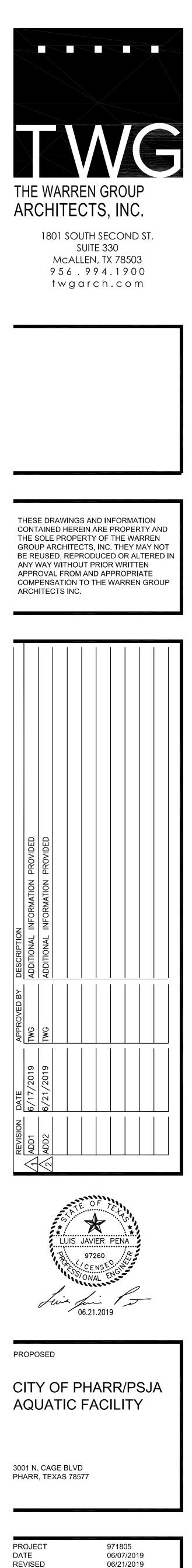
- LOCATED UNDER PLUMBING FIXTURE EQUAL TO A LEONARD MODEL 170 WITH COLD WATER BY-PASS AND MOUNTING BRACKET. REFER TO DETAIL.
- 2 TRAP PRIMER WITH 1/2" LINE LOCATED ABOVE CEILING. REFER TO DETAIL.
- 3 WATER LINE FOR POOL. PLUMBING CONTRACTOR SHALL COORDINATE FINAL LOCATION OF WATER LINE WITH POOL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
- 4 PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER LINE SIZE, AND POINT OF CONNECTION WITH CIVIL PLANS PRIOR TO BID TO AVOID CONFLICTS. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- (5) DROP LINE INTO POOL FILL FUNNEL. REFER TO POOL CONSULTANT DRAWINGS. FURNISH SOLENOID VALVE(S) PER CONSULTANT RECOMMENDATIONS.
- 6 FIRE SPRINKLER RISER WITH BACKFLOW PREVENTER TO BE LOCATED INSIDE RISER ROOM. ROUTE FIRE DEPARTMENT CONNECTION LINE FROM RISER ROOM TO PROPOSED FREE-STANDING STORZ CONNECTION. REFER TO CIVIL PLANS.
- (7) PROPOSED FIRE SPRINKLER SUPPLY LINE, FIRE DEPARTMENT CONNECTION AND PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. DESIGNER SHALL COORDINATE WITH ALL OTHER TRADES FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET CITY INSTALLATION REQUIREMENTS.
- (8) RISE CW LINE UP ALONG WALL CAVITIES TO HIGHER LEVEL SHALL BE PART OF ALTERNATE #1. REFER TO ARCHITECTURAL DRAWINGS.
- (9) RISE HWR LINE UP ALONG WALL CAVITIES TO HIGHER LEVEL SHALL BE PART OF ALTERNATE #1. REFER TO ARCHITECTURAL DRAWINGS.
- (10) RISE HW LINE UP ALONG WALL CAVITIES TO HIGHER LEVEL SHALL BE PART OF ALTERNATE #1. REFER TO ARCHITECTURAL DRAWINGS.
- 11 RISE GAS DISTRIBUTION PIPING UP ABOVE ROOF SHALL BE ROUTED THRU GAS PIPE SCUPPER. REFER TO PLUMBING ROOF PLAN FOR CONTINUATION.
- 12 TANKLESS WATER HEATER SYSTEM SHALL BE INSTALLED AS PER MANUFACTURER RECOMMENDATIONS.
- (13) EACH GAS REGULATOR SHALL BE FURNISHED WITH A SHUT-OFF VALVE UP-STREAM OF REGULATOR.
- 4) CONNECT TO PROPOSED METERED GAS SERVICE PROVIDED BY COMPANY. COORDINATE ROUTING AND POINT OF CONNECTION WITH GAS COMPANY PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. LINE SHALL SIZED FOR A GAS LOAD OF 9344 CFH.
- (15) RISE GAS DISTRIBUTION PIPING UP TO ROOF. REFER TO PLUMBING ROOF PLAN FOR CONTINUATION. 16 PROVIDE AND INSTALL 3" BRONZE TURBINE METER EQUAL TO
- ZENNER MODEL "ZTMB03".

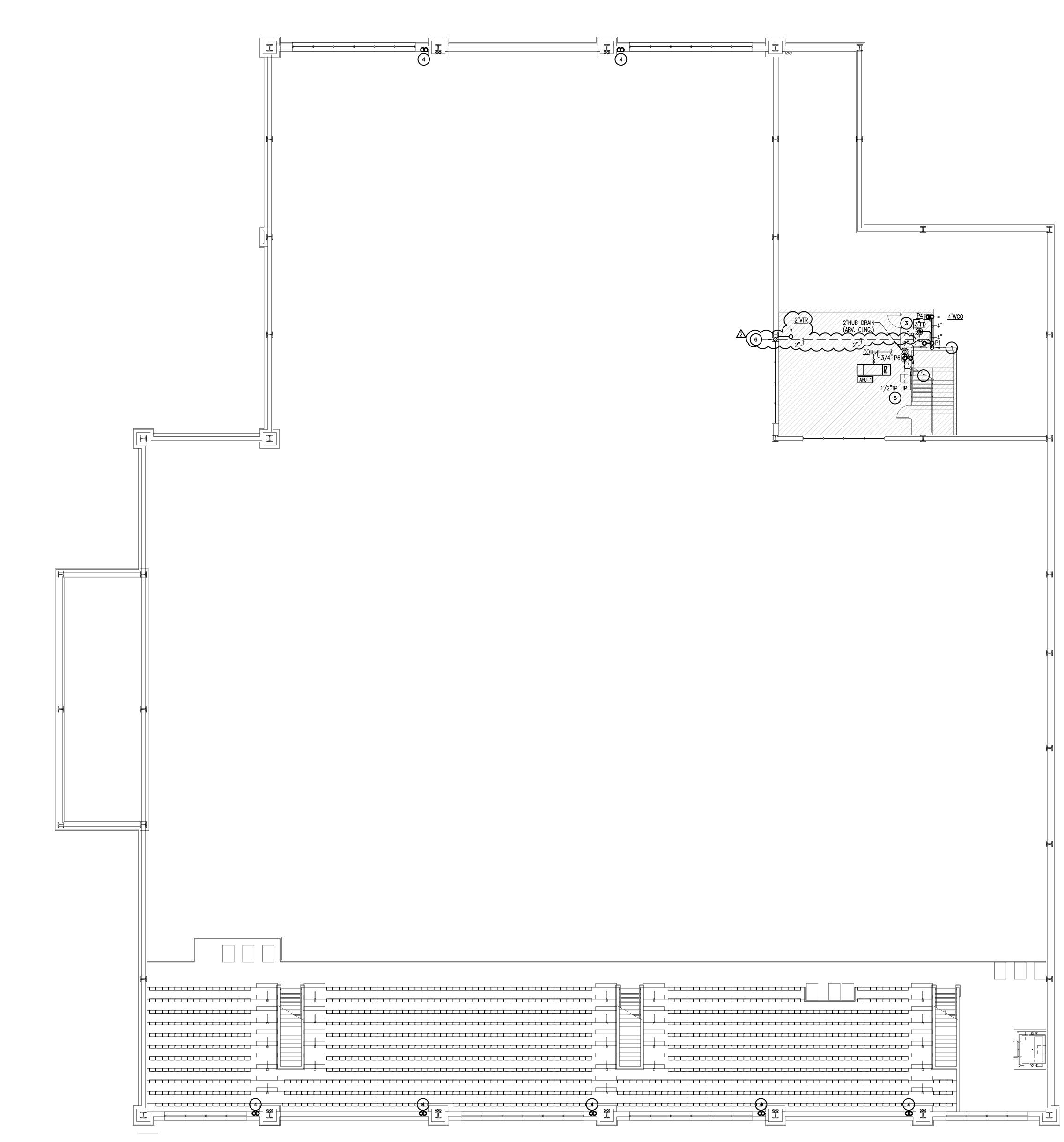


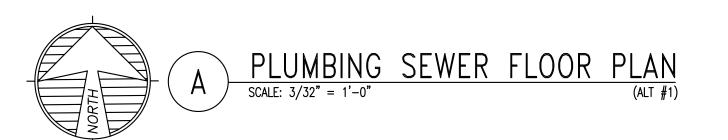
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FLOOR PLAN

PLUMBING HW/CW

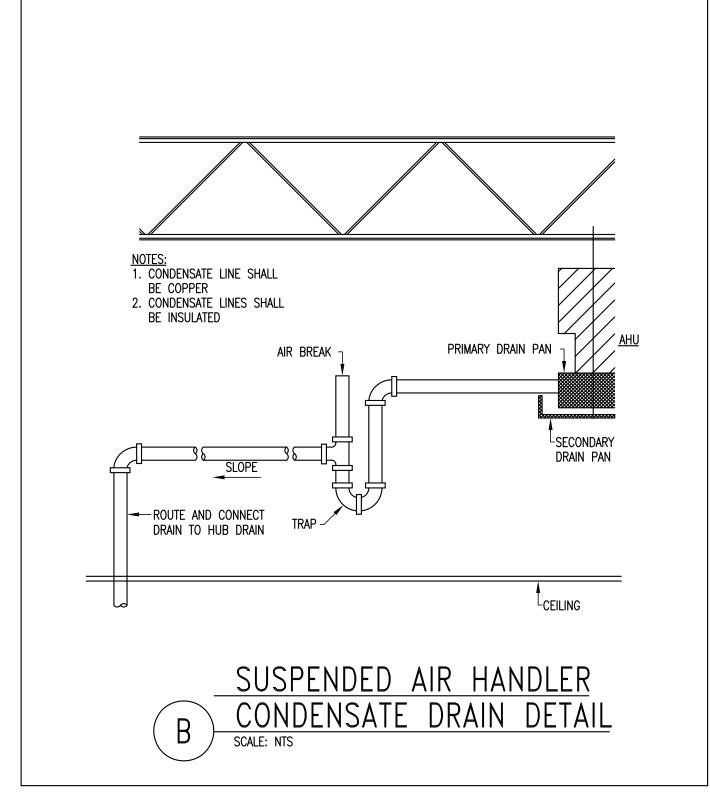






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- 5 REFER TO HW/CW FLOOR PLAN FOR CONTINUATION OF PRIMER LINE AND TRAP PRIMER LOCATION ABOVE CEILING. (6) RISE/DROP VENT LINE UP/DOWN ALONG WALL CAVITIES TO HIGHER/LOWER LEVEL. REFER TO ARCHITECTURAL DRAWINGS.
- (4) RISE/DROP STORM SEWER UP/DOWN TO HIGHER/LOWER LEVEL.
- 3 PROVIDE TRAP PRIMER CONNECTION FROM NEAREST FLUSH VALVE TRAP PRIMER, REFER TO DETAIL.
- DRAWINGS. 2 RISE/DROP VENT LINE UP/DOWN ALONG WALL CAVITIES TO HIGHER/LOWER LEVEL SHALL BE PART OF ALTERNATE #1. REFER TO ARCHITECTURAL DRAWINGS.
- <u>KEY NOTES:</u> O DROP SEWER LINE DOWN ALONG WALL CAVITIES TO LOWER LEVEL SHALL BE PART OF ALTERNATE #1. REFER TO ARCHITECTURAL
- (I) SAW CUT EXISTING SLAB AS REQUIRED TO ACCOMODATE NEW PLUMBING FIXTURE ROUGH-IN. (J) ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.
- OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH SURROUNDING SURFACE.
- (G) REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES (H) PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN
- (F) PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
- (E) INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.
- (D) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION
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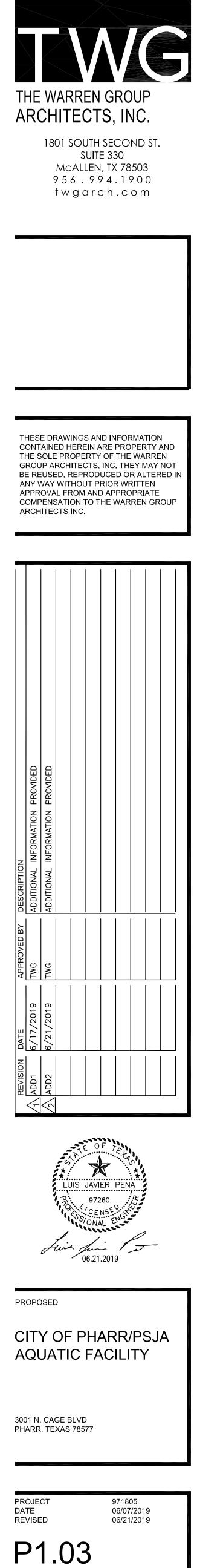
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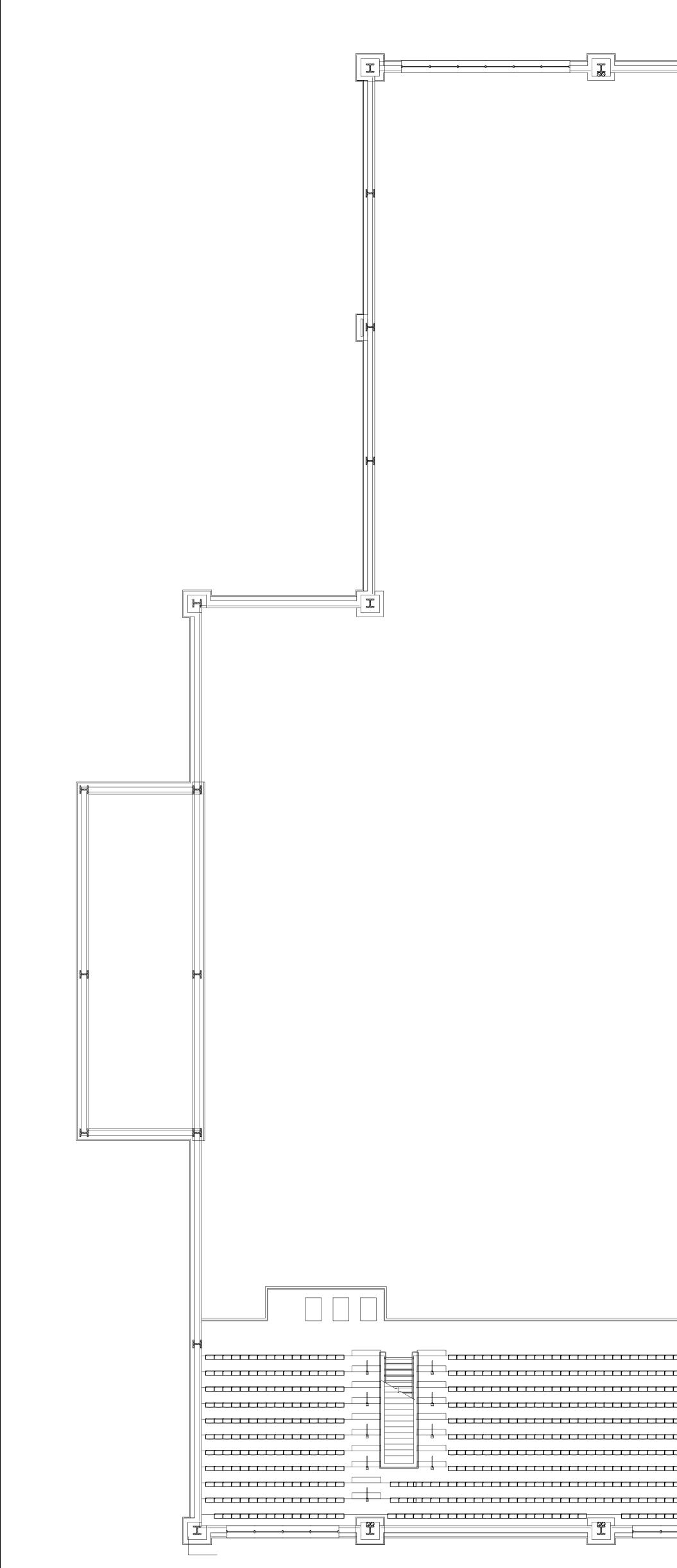
GENERAL NOTES: (

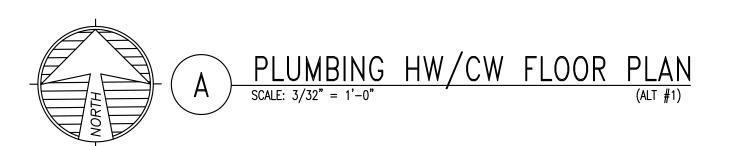
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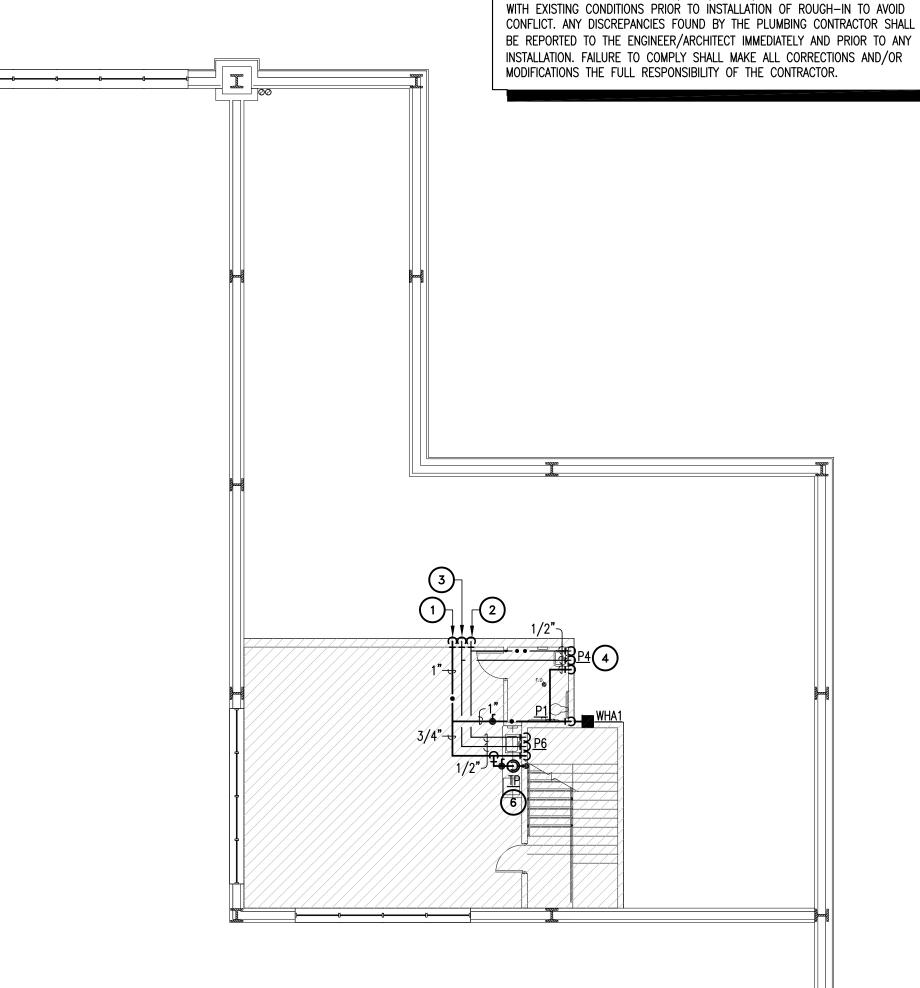


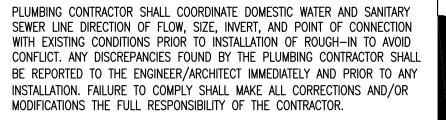
PLUMBING SEWER

MEZZANINE PLAN







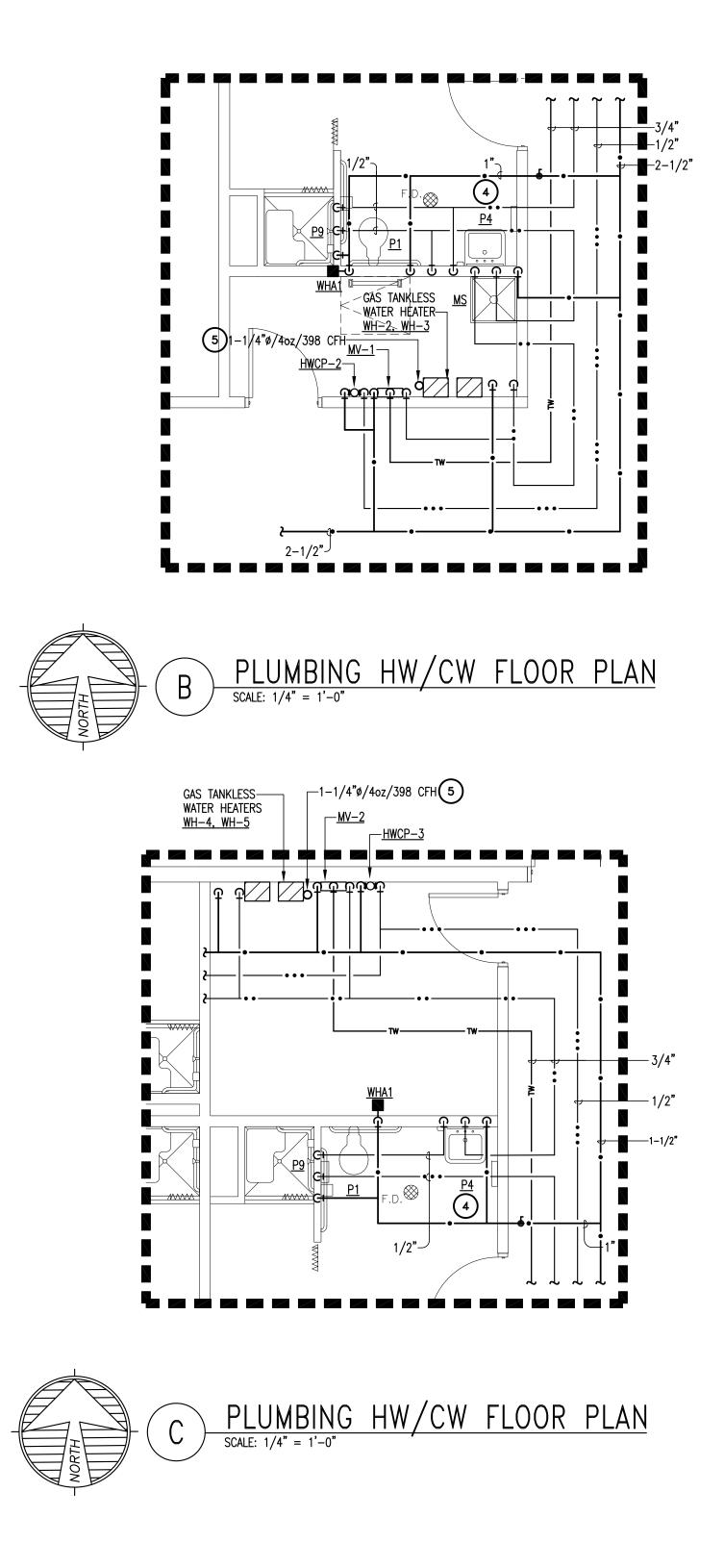


# <u>KEY NOTES:</u> O

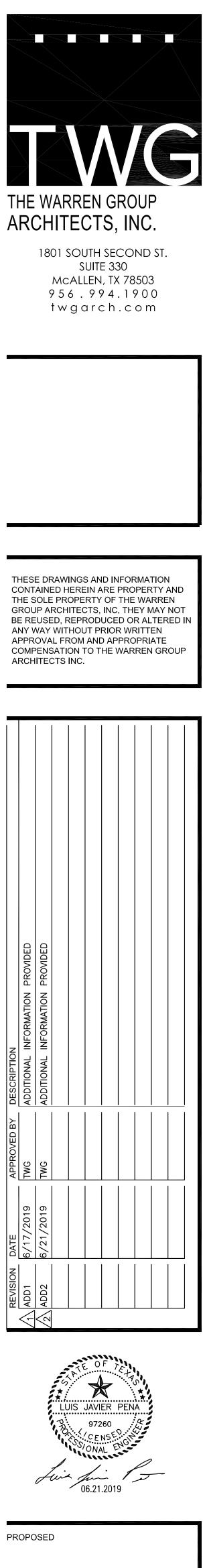
- $\bigcirc 1 \\ \hline 1$
- 2 DROP HW LINE DOWN ALONG WALL CAVITIES TO LOWER LEVEL SHALL BE PART OF ALTERNATE #1. REFER TO ARCHITECTURAL DRAWINGS.
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- 6 TRAP PRIMER WITH 1/2" LINE LOCATED ABOVE CEILING. REFER TO DETAIL.

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- (J) ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.







PROPOSED

CITY OF PHARR/PSJA AQUATIC FACILITY

PROJECT

P1.04

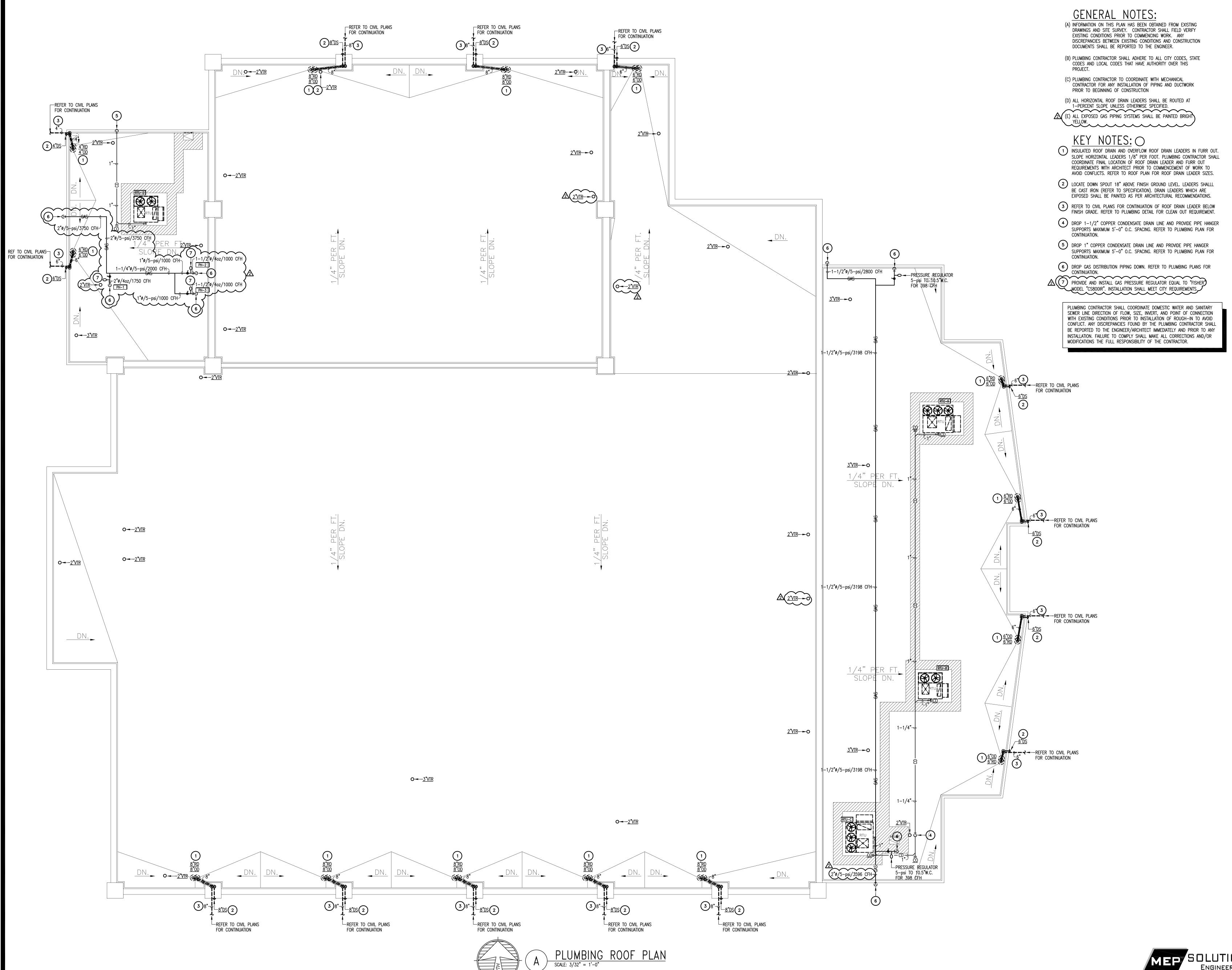
PLUMBING HW/CW

MEZZANINE PLAN

DATE REVISED

3001 N. CAGE BLVD PHARR, TEXAS 78577

971805 06/07/2019 06/21/2019







971805 06/07/2019 06/21/2019

3001 N. CAGE BLVD PHARR, TEXAS 78577

CITY OF PHARR/PSJA AQUATIC FACILITY

PROPOSED



DESCRIPTION	ADDITIONAL INFORMATION PROVIDED	ADDITIONAL INFORMATION PROVIDED					
APPROVED BY	TWG	TWG					
DATE	6/17/2019	6/21/2019					
REVISION DATE		ADD2					

CONTAINED HEREIN ARE PROPERTY AND THE SOLE PROPERTY OF THE WARREN GROUP ARCHITECTS, INC. THEY MAY NOT BE REUSED, REPRODUCED OR ALTERED IN ANY WAY WITHOUT PRIOR WRITTEN APPROVAL FROM AND APPROPRIATE COMPENSATION TO THE WARREN GROUP ARCHITECTS INC.

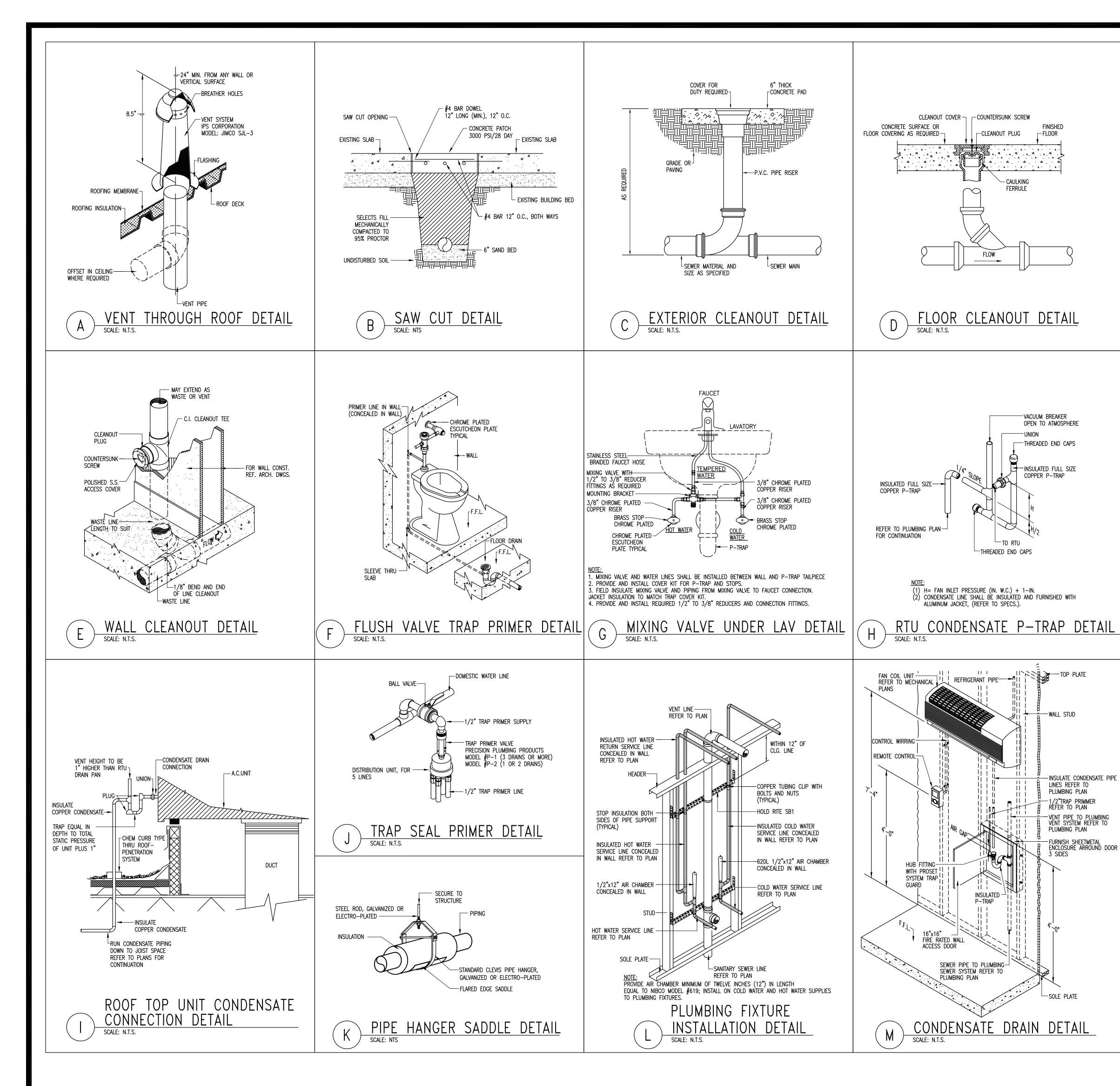
THESE DRAWINGS AND INFORMATION

THE WARREN GROUP ARCHITECTS, INC. 1801 SOUTH SECOND ST. SUITE 330

McALLEN, TX 78503

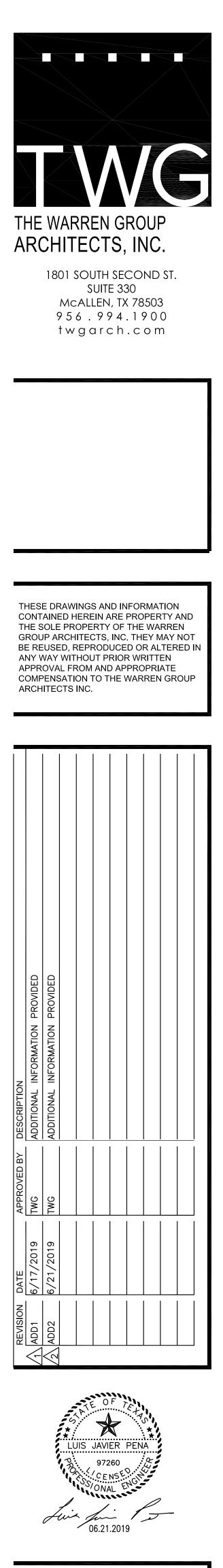
956.994.1900

twgarch.com



			CONNECT	FION SIZE	_umb	ING FIXTURE SCHEDULE
MARK	FIXTURE TYPE	SEWER	VENT	CW	HW	DESCRIPTION
P1	WATER CLOSET (HANDICAP)	4"	2"	1"	-	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUD. ZURN "ECOVANTAGE MODEL "Z5665-BWL". 16-3/4" RIM HEIGHT, 1.6 GPF, 10" ROUGH-IN, SIPHON JET ACTION WITH SLOAN "ROYAL" F MODEL "111-TP" WITH TRAP PRIMER CONNNECTION WHERE SHOWN ON PLANS, BENEKE MODEL "533" OPEN FRONT LESS COVER.
P2	WATER CLOSET	4 <b>"</b>	2"	1"	-	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1–1/2" TOP SPUD. ZURN "ECOVANTAGE MODEL "Z5655–BWL". 15" RIM HEIGHT, 1.6 GPF, 10" ROUGH–IN, SIPHON JET ACTION WITH SLOAN "ROYAL" FLUSH MODEL "111–TP" WITH TRAP PRIMER CONNNECTION WHERE SHOWN ON PLANS, BENEKE MODEL "533" OPEN FRONT LESS COVER.
P3	URINAL (HANDICAP)	2"	2"	3/4"	-	VITREOUS CHINA, WALL HUNG, SIPHON JET ACTION WITH 3/4" TOP SPUD AND WALL HANGERS. MINIMUM 14" RIM WALL DISTANCE. EQUAL TO ZURN MODEL "Z5730" WITH SLOAN ROYAL "186–1" FLUSH VALVE AND APPROVED CAF SYSTEM.
P4	LAVATORY WALL HUNG (HANDICAP)	2"	2"	1/2"	1/2"	VITREOUS CHINA, WALL HUNG LAVATORY WITH HOLES ON 4" CENTERS EQUAL TO ZURN MODEL "Z5340". COMPLET LAVATORY FAUCET MOEN MODEL "8413F15". CHROME FINISH, SINGLE LEVER HANDLE, 1.5 GPM FLOW, ADA APPROVI WITH CARRIER AND PROTECTIVE COVER ON P-TRAP.
P5	LAVATORY COUNTERTOP (HANDICAP)	2"	2"	1/2"	1/2"	VITREOUS CHINA, SELF RIMMING, OVAL (20"X17") LAVATORY WITH FAUCET HOLES ON 4" CENTERS EQUAL TO ZURN "Z5114". COMPLETE WITH LAVATORY FAUCET MOEN MODEL "8413F15". CHROME FINISH, SINGLE LEVER HANDLE, 1.5 FLOW, ADA APPROVED AND PROTECTIVE COVER ON P-TRAP.
P6	STAINLESS STEEL COUNTERTOP SINK (HANDICAP)	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD-2521-60-3". SELF RIMMING, 25"X 3 HOLES ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH MOEN MODEL "8289" SWING GOOSENECK S CHROMED METAL WRIST BLADE HANDLES, DECK MOUNT FAUCET AND "LK-35" STRAINER WITH BASKET.
P7	SHOWER (HANDICAP)	_	_	_	1/2" TEMPERED WATER	PRESSURE BALANCING VALVE WITH CHECK STOPS ON INLETS, STAINLESS STEEL BALANCING PISTON EQUAL TO BRAD MODEL "S59-1000". SHOWER STALL SHALL BE EQUAL TO BRADLEY MODEL "HN300" COMPLETE WITH HAND HELD SHOWER, 60" METAL CLAD HOSE, BARRIER FREE SEAT AND ADA COMPLIANT GRAB BAR. SHOWER HEAD SHALL BE ADJUSTABLE PATTERN WITH CHROME PLATED BRASS ARM EQUAL TO BRADLEY MODEL "1C-S".
P8	SHOWER	_	_	_	1/2" TEMPERED WATER	BUILT IN SHOWER WITH PRESSURE BALANCING VALVE, STANDARD INSTITUTIONAL SHOWER HEAD AND WALL MOUNTED DISH, EQUAL TO BRADLEY "1C-EF-S1-ST-SD".
P9	SHOWER (HANDICAP)	_	_	1/2"	1/2"	PRESSURE BALANCING SHOWER WITH INTEGRAL CHECK STOPS, AND ADJUSTABLE TEMPERATURE LIMIT STOPS EQUAL MOEN "POSI-TEMP" MODEL "8342". COMPLETE WITH HAND HELD SHOWER, 69" SHOWER HOSE, 30" SLIDE BAR, 1/ CONNECTIONS, ADA COMPLIANT. POLISHED CHROME FINISH.
P10	BI-LEVEL ELECTRIC WATER COOLER (HANDICAP)	2"	2"	1/2"	-	BI-LEVEL, SELF-CONTAINED, WALL HUNG REFIRGERATED WATER COOLER EQUAL TO ELKAY "EZSTL-8". SELF CLOSI CONTROLS ON FRONT AND SIDE, STAINLESS STEEL BASIN. FLEX-GUARD BUBBLER CAPABLE OF DELIVERING 8.0 GF 50°F WATER WITH 80°F INLET WATER AND 90°F ROOM TEMPERATURE. FURNISH WITH CARRIER AND APRON.
MS	MOP SINK Floor Mounted	2"	2"	3/4"	3/4"	TERRAZO, SQUARE MOP SINK EQUAL TO FIAT "TSBC-3010" 24"X24"X12" WITH 6" DROP FRONT, STAINLESS STEEL GUARD AND "MSG-2424" WALL GUARD. COMPLETE WITH MOEN MODEL "8124 CHROME" SERVICE SINK FAUCET WIT CENTERS, PAIL HOOK, AND VACUUM BREAKER SPOUT. COMPLETE WITH "832-AA" HOSE AND BRACKET, "889-CC" STAINLESS STEEL MOP BRACKET AND GRID STRAINER.
WH-1 WH-2	WATER HEATER	-	-	-	-	TANKLESS WATER HEATER RATED AT 199,000 BTUH EQUAL TO A NAVIEN MODEL "NPE-240S". FURNISH WITH CONC VENT KIT (FOR SIDE WALL MOUNTING), EXPANSION TANK. INSTALL SYSTEM PER MANUFACTURER RECOMMENDATIONS TANKLESS WATER HEATERS IN MANIFOLD CONFIGURATION WITH EACH RATED AT 199,000 BTUH EQUAL TO A NAVIEN
WH-3 WH-4	WATER HEATER	_	_	_	_	"NPE-240S". FURNISH WITH CONCENTRIC VENT KIT (FOR SIDE WALL MOUNTING), EXPANSION TANK. INSTALL SYSTE MANUFACTURER RECOMMENDATIONS. TANKLESS WATER HEATERS IN MANIFOLD CONFIGURATION WITH EACH RATED AT 199,000 BTUH EQUAL TO A NAVIEN
WH-5 WH-6	WATER HEATER	_	_	_	_	"NPE-240S". FURNISH WITH CONCENTRIC VENT KIT (FOR SIDE WALL MOUNTING), EXPANSION TANK. INSTALL SYSTE MANUFACTURER RECOMMENDATIONS. TANKLESS WATER HEATER RATED AT 199,000 BTUH EQUAL TO A NAVIEN MODEL "NPE-240S". FURNISH WITH CONC
3 <b>"</b> FD	GENERAL DUTY	3"	2"	_		VENT KIT (FOR SIDE WALL MOUNTING), EXPANSION TANK. INSTALL SYSTEM PER MANUFACTURER RECOMMENDATIONS ZURN MODEL "Z-415-B" LACQUERED CAST IRON FLOOR DRAIN. FURNISH COMPLETE WITH "TYPE B" NICKEL BROI
3"FD-1	FLOOR DRAIN		~	<u> </u>	<u> </u>	STRAINER AND 1/2" TRAP PRIMER CONNECTION. ZURN MODEL "FD1-PV3-SS-P-VP" ADJUSTABLE PVC FLOOR DRAIN. FURNISH COMPLETE WITH STAINLESS STEEL S
2"FD	FLOOR DRAIN SHOWER	2"	2 2"		-	AND 1/2" TRAP PRIMER CONNECTION, ZURN MODEL "Z-415-B" LACQUERED CAST IRON FLOOR DRAIN. FURNISH COMPLETE WITH "TYPE B" NICKEL BROI
2"FD-1	FLOOR DRAIN	2"	~	<u> </u>		STRAINER. ZURN MODEL "FD1-PV2-SS-VP" ADJUSTABLE PVC FLOOR DRAIN. FURNISH COMPLETE WITH STAINLESS STEEL STRA
3"FS	FLOOR SINK	2 3"	2"	-	-	ZURN MODEL "Z-1900-P-2" PORCELAIN-ENAMELED CAST IRON FLOOR SINK. 12"X12"X6" WITH ANTI-SPLASH INTI BOTTOM DOME STRAINER, PORCELAIN-ENAMELED CAST IRON 1/2" GRATE AND 1/2" TRAP PRIMER CONNECTION.
RICB	REFRIGERATOR ICE CONNECTION BOX	_	_	1/2"	-	GUY GRAY MODEL "BIM-875" ICE CONNECTION BOX.
WHB	WALL HYDRANT	_	_	3/4"	-	ZURN ELECTROL WALL HYDRANT MODEL "Z-1300" ENCASED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING HYD FOR FLUSH WALL INSTALLATION COMPLETE WITH BACKFLOW PREVENTER, CLOSURE VALVE, NICKEL BRONZE BOX, HIN
FC0-1	FLOOR CLEANOUT	4"	_	_	-	COVER, KEY LOCK, AND "WATER" CAST ON COVER. ZURN MODEL "ZN1400" LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AN WATERTIGHT ABS TAPERED THREADED PLUG, AND ROUND SCORIATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISHED FLOOR.
FC0-2	FLOOR CLEANOUT	4"	_	_	-	ZURN MODEL "EZC-PV4-R6-SS" ADJUSTABLE FLOOR CLEANOUT WITH PVC SOLVENT WELD BODY, GAS AND WATERT ABS TAPERED THREADED PLUG, AND ROUND SCORIATED STAINLESS STEEL TOP ADJUSTABLE TO FINISHED FLOOR.
YCO	YARD CLEANOUT	4"	_	-	-	ZURN MODEL "Z1400-HD" LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS WATERTIGHT ABS TAPERED THREADED PLUG, AND ROUND SCORIATED HEAVY-DUTY CAST IRON TOP ADJUSTABLE TO FINISHED FLOOR.
WCO	WALL CLEANOUT	4"	_	_	-	ZURN MODEL "Z1441" WALL CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREADED PLUG, AND ROUND SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.
HWCP-1	HOT WATER CIRCULATION PUMP	_	_	3/4"	3/4"	HOT WATER CIRCULATION PUMP SHALL BE EQUAL TO ARMSTRONG MODEL 20B050S-TA ASTRO SERIES, 1/25 HP, 115V/1PH/60Hz. PROVIDE WITH AUTOMATIC TIMER KIT.
WHA1	WATER HAMMER ARRESTOR	-	_	-	-	WATER HAMMER ARRESTOR FOR SINGLE RESTROOM SHALL BE EQUAL TO WADE PISTON-TYPE SHOKSTOPS MODEL # COPPER FINNISH.
WHA2	WATER HAMMER ARRESTOR	-	-	-	_	WATER HAMMER ARRESTOR FOR GANG RESTROOMS SHALL BE EQUAL TO ZURN SHOKTROL MODEL # Z1700 SERIES, STAINLESS STEEL.
RD	Primary Roof Drain	_	-	-	_	ZURN MODEL "ZC-100-AC-GD" LACQUERED CAST IRON ROOF DRAIN WITH COMBINATION MEMRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE CAST IRON DOME. COMPLETE WITH ANGULAR UNDER DECK CLAMP.
OD	overflow roof Drain	_	-	-	_	ZURN MODEL "ZC-100-AC-W2-GD" LACQUERED CAST IRON ROOF DRAIN WITH LOW SILHOUETTE CAST IRON DOME, MEMBRANE FLASHING CLAMP AND GRAVEL GUARD, AND INTERNAL 2" WATER DAM COMPLETE WITH ANGULAR UNDER CLAMP.
DS	Down Spout Nozzle	_	-	_	_	ZURN MODEL "ZANB-199" NICKEL BRONZE DOWN SPOUT NOZZLE WITH THREADED INLET AND WALL FLANGE.
SP-1	SUMP PUMP FLEVATOR SLIMP PLIMP	-	-	_	-	STAINLESS STEEL SUMP PUMP SHALL BE EQUAL TO BELL & GOSSET MODEL "2WS0712", $\frac{3}{4}$ HP, 230V/1PH/60HZ. PROVIDE SWITCH FOR MANUAL OPERATION.
	ELEVATOR SUMP PUMP PACKAGE SYSTEM		_	_	_	SUMP PUMP PACKAGE SYSTEM SHALL BE EQUAL TO PARK EQUIPMENT SYSTEM ELEVADER MODEL "ES100-HP-P50" CAPABLE OF AUTOMATACLLY REMOVING 50GPM PER ELEVATOR CAR. SYSTEM SHALL INCLUDE ELVATORSUMP PUMP, SWELL, OIL-WATER INTERCEPTOR TANK, PUMP CONTROL PANLE WITH HIGH LEVEL ALARM.
TRENCH DRAIN	TRENCH DRAIN	4"	_	_	-	ZURN MODEL "Z884-HPP" CHANNELS SHALL BE 40 INCHES LONG, $4-\frac{3}{4}$ " WIDE. MODULAR SECTIONS SHALL BE MAD POLYPROPYLENE, HAVE INTERLOCKING ENDS, AND RADIUSED BOTTOM. COMPLETE WITH ADA COMPLIANT HEEL PROOF POLYETHYLENE GRATE WITH MECHANICAL LOCKDOWN DEVICES. TRENCH DRAIN SHALL BE INSTALLED IN ACCORDANC MANUFACTURER'S INSTRUCTIONS.
HB	HOSE BIBB	-	-	3/4"	-	BACKFLOW PROTECTED WALL FAUCET EQUAL TO A WOODFORD MODEL "26-P" WITH POLISHED CHROME FINISH, 3/4 INLET, AND LOOSE TEE KEY.
MV-1	THERMOSTATIC MIXING VALVE	_	_	3/4"	3/4"	DURA-TROL, ECO-MIX THERMOSTATIC WATER MIXING VALVE EQUAL TO LEONARD MODEL "TM-26".





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CITY OF PHARR/PSJA

AQUATIC FACILITY

PHARR, TEXAS 78577

PROJECT

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P2.00

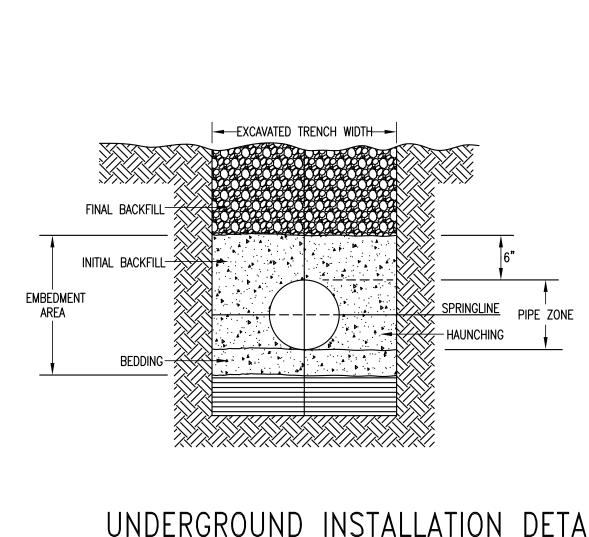
PLUMBING

SCHEDULES

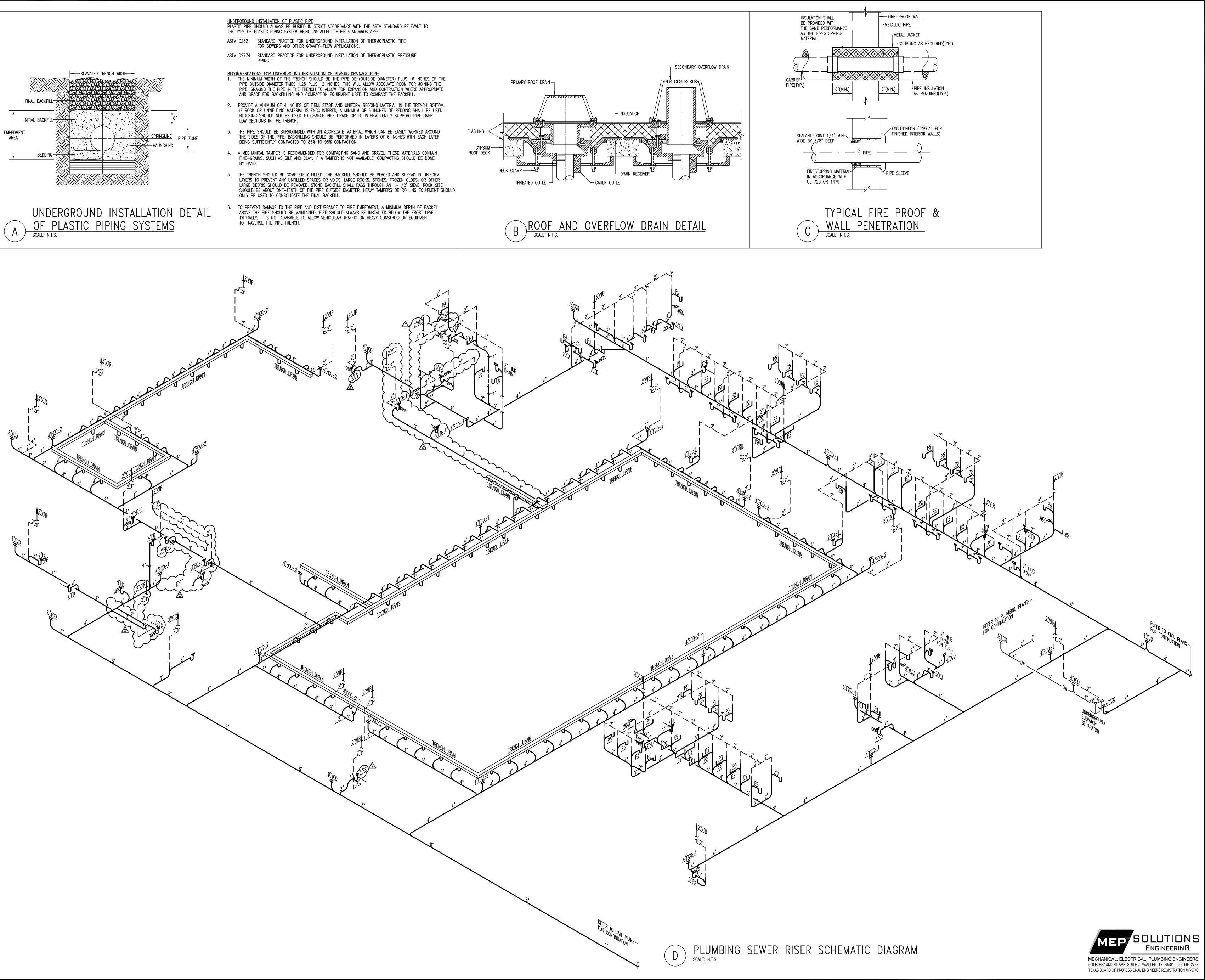
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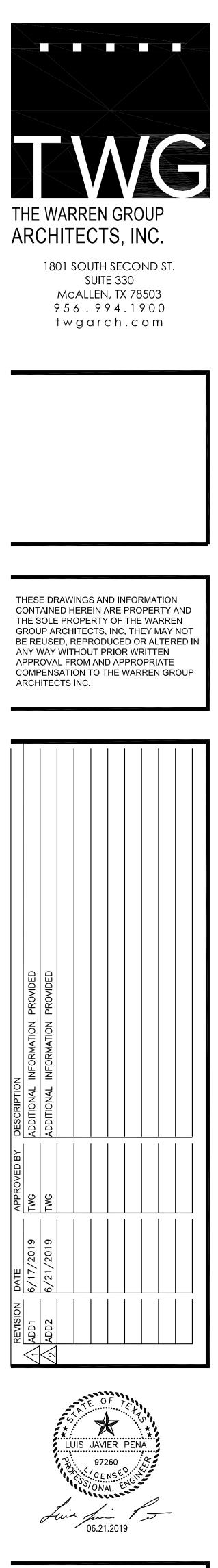
3001 N. CAGE BLVD

971805 06/07/2019 06/21/2019



- LOW SECTIONS IN THE TRENCH.
- BY HAND.
- ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.





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CITY OF PHARR/PSJA

971805

06/07/2019 06/21/2019

3001 N. CAGE BLVD PHARR, TEXAS 78577

PROJECT

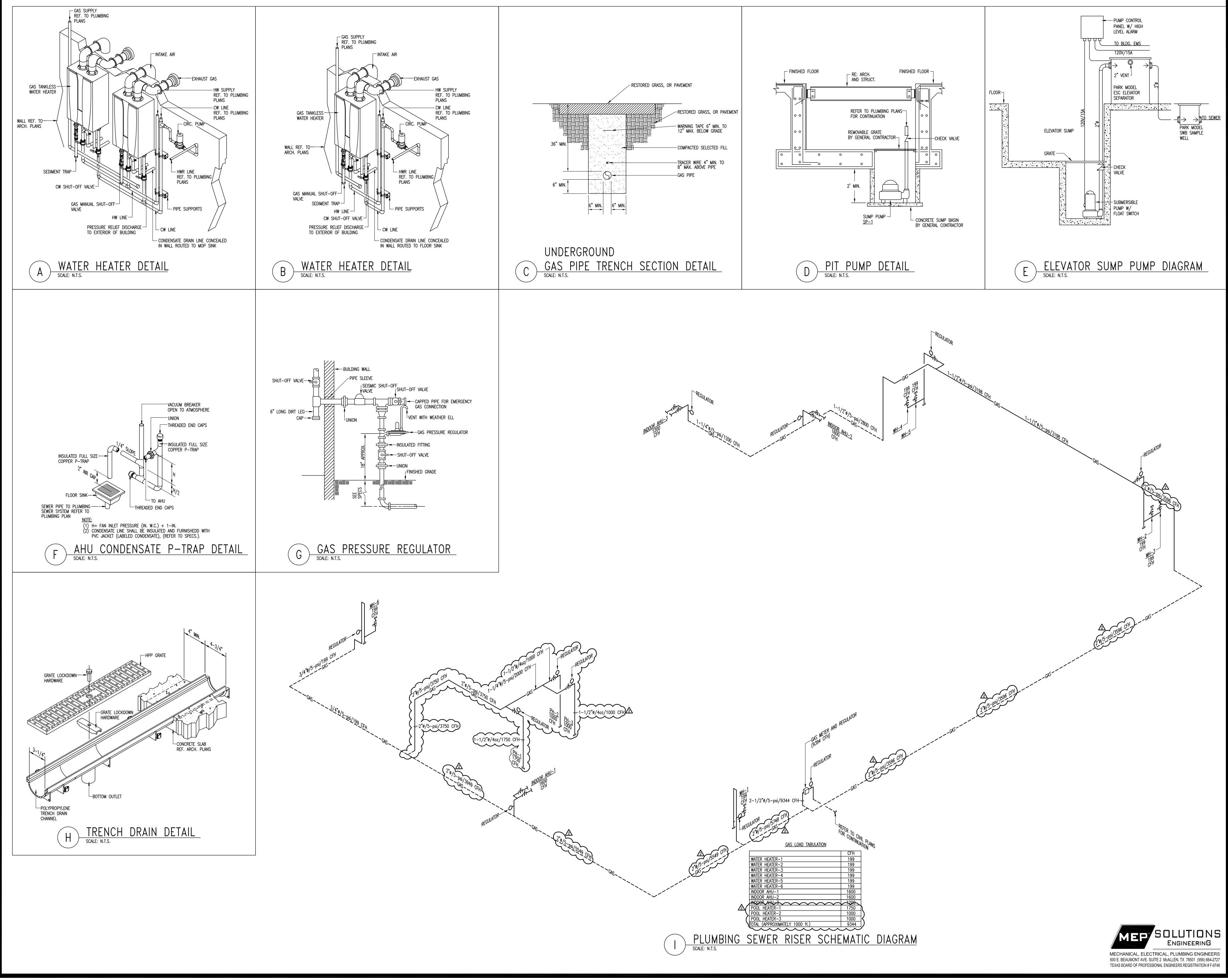
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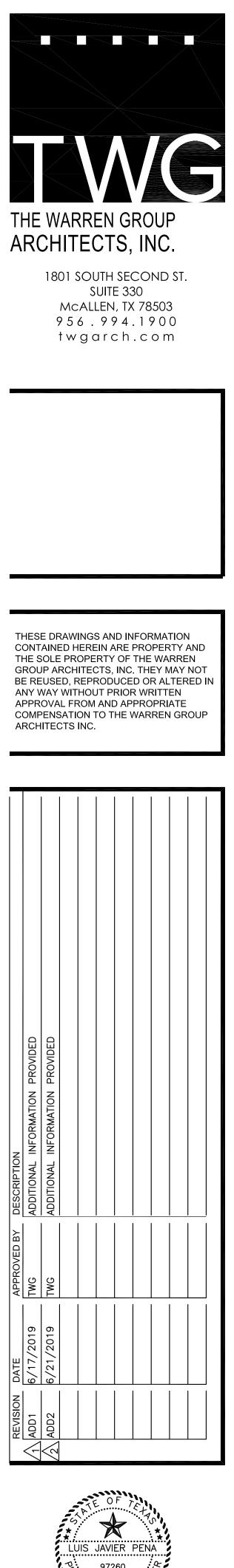
P2.01

PLUMBING SEWER

**RISER DIAGRAM** 

AQUATIC FACILITY



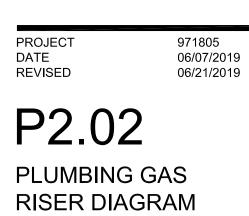




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CITY OF PHARR/PSJA AQUATIC FACILITY

3001 N. CAGE BLVD PHARR, TEXAS 78577



#### **GENERAL NOTES**

- THIS CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED 1. STRUCTURE, UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING SAFETY NETS, SUPPORT AND BRACING FOR CRANES, POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW 2. ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING
- BUILDING CODES AND REGULATIONS. THE CONTRACTOR SHALL Verify ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT AND ENGINEER IN WRITING ANY OMISSION OR CONFLICT BETWEEN THE VARIOUS FLEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED
- IN CASE OF CONFLICT; NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY PART OF THE WORK. SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH
- DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS. WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN. THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER, IN WRITING OF ANY WORK CALLED OUT
- ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS INDICATED THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS. THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO INSTALLATION.
- THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. HE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION THEREOF, DURING CONSTRUCTION. NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS THE CONTRACTOR SHALL DESIGN CONSTRUCT AND
- MAINTAIN ALL SAFETY DEVICES. INCLUDING SHORING AND BRACING. AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS. LAWS AND REGULATIONS 0. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY.
- SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE ENGINEER. 11. ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, ADDITIONAL COSTS (INCLUDING REDESIGN BY THE ENGINEER), AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS MAY IMPACT.
- 12. THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT THE SITE BEGINS. 13. ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL
- BE REFERRED TO THE ENGINEER. 14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROJECT
- ANY EXISTING UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES PRIOR TO BEGINNING ANY WORK 15. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

#### DESIGN CRITERIA

DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED UPON THE FOLLOWING CRITERIA: IBC 2015 CODE: LATERAL LOADS A. WIND SPEED (V<sup>3</sup>s): 145 MPH

	В. С. D. Е. F. G.	BUILDING CATEGORY SEISMIC DESIGN CATEGORY SITE CLASS	C 1.0 III A C C 0.041 g 0.014 g 1.6 2.4 0.066 g 0.034 g	
		Sds	0.044 g	
		Sd1	0.023 g	
3.		ALLOADS		
	A. B. C. D. E. F. G. FLC	LIVE LOAD: (REDUCIBLE) WIND UPLIFT LOAD (NET): GROUND SNOW LOAD:	ACTUAL WEIGHT 20 AS CALCULATED BY SUB-CONTRACTOR 0 NONE SEE Mechanical PLANS	PSF PSF PSF
	C. D. E.	LIVE LOAD, OFFICE: LIVE LOAD, LIGHT STORAGE LIVE LOAD, HEAVY STORAGE: LIVE LOAD, ROOMS LIVE LOAD, CORRIDOR: MECHANICAL UNITS	100 + 20 125 250 80	PSF PSF PSF PSF PSF
4.		RFACE INFORMATION PREPARED BY:	Raba Kistner, March 6, 2019 AMA19-006-00	
	В.	MINIMUM FOOTING DEPTH: MINIMUM FOOTING WIDTH:	12IRE (CONTINUOUS FOOTINGS):1900IRE (ISOLATED FOOTINGS):2300	

WIRE REINFORCEMENT INSTITUTE (WRI) CRITERIA CLIMATIC RATING (Cw) EFFECTIVE PLASTICITY INDEX (UNDISTURBED, NATIVE SOIL) EFFECTIVE PLASTICITY INDEX (SITE IMPROVED SOIL) PVR (UNDISTURBED SOIL) PVR (WITH SITE IMPROVEMENT)

34

1.75 INCHS

1.0 INCH

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Sheet Number	Sheet Name		Current Revision
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S100	Overall	Ę	
S101	General Notes	ξ	2
S102	General Notes	Ę	
S103	Schedules	Ę	2
S201	Pier Layout Plan	È	
S202	Foundation Plan	Ş	
S203	Foundation Plan, Grade Beams	Ę	
S204	Column Layout Plan	Ę	2
S205	Misc. Structures	Ę	2
S206	Monument Sign, Framing Details	Ę	
S207	Monument Sign Sections and Elevations	È	
S301	Beachers and Observation Framing Plan	\$	
S302	Roof Framing Plan	Ę	
S303	High Roof Framing Plan	Ę	
S431	Typical Concrete Details	Ę	
S432	Foundation Details	Ę	2
S433	Foundation Details	È	
S434	Hollow Core Planks Details	Ş	2
S441	Typical CMU Details	Ę	
S452	Steel Framing Details	Ę	2
S453	Typical Details	Ę	2
S551	Truss Details	Ę	
S552	Truss Details	Ę	2
S601	Elevations	È	
S602	Elevations	Ę	
S603	Elevations	Ę	
S604	Elevations	Ę	
S605	Building Sections	Ę	2
S606	Building Sections	} }	
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#### SHOP DRAWINGS AND SUBMITTALS

- SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND ADDITIONAL INFORMATION SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN NO REPRODUCTIONS OF THE CONTRACT DRAWING PLANS OR DETAILS.
- SUBMIT SHOP DRAWINGS IN PDF FORMAT. SHOP DRAWINGS SHALL NOT SHOW MATERIALS FOR MORE THAN ONE LEVEL OF THE
- SAME PLAN. SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION (DETAIL SHEETS AND/OR MATERIAL LISTS) AND INSTALLATION. ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS. CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUB-CONTRACTOR 3. AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADING.
- CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTOR BEFORE SUBMITTING TO ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE NUMBER 3 UNDER GENERAL NOTES.
- REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEF THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS. IF THERE IS ANY DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS, THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS GOVERN. INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED
- FROM THE STRUCTURAL DRAWINGS. PROVIDE SUBMITTALS FOR THE FOLLOWING ITEMS: ITEM A. CONCRETE MIX DESIGN
- B. CURING COMPOUND FOR CONCRETE REINFORCING STEEL
- D. STRUCTURAL STEEL E. STEEL JOIST
- METAL DECKING (INDICATE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, DECK OPENINGS, SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.)
- . Metal Canopies (INCLUDE CALC'S & REACTIONS) I. Metal Studs Hollow core Planks and Precast Concrete Beachers, include connection details

### **REINFORCING STEEL**

- BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615. INCLUDING SUPPLEMENT S1, GRADE 40 - #3 AND SMALLER GRADE 60 - #4 AND LARGER DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED. VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 192 BAR DIAMETERS OR 48" O.C. WHICH EVER IS LESS. IN MASONRY CONSTRUCTION, THE
- REINFORCEMENT SHALL BE SECURED IN PLACE WITH REBAR SPACERS AND SHALL NOT BE SPACED APART MORE THAN 48 INCHES ON CENTER. WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185. WALLS, PILASTER, COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH
- REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PILASTER, OR COLUMNS. BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). PLASTIC
- CHAIRS ARE NOT ALLOWED. FOR SLAB ON GRADE AND GRADE BEAMS, USE CONCRETE BRICK CHAIRS REINFORCING STEEL DETAILING. BENDING AND PLACING SHALL BE IN ACCORDANCE WITH
- THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST 18. 8. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR
- GROUT: INCLUDING EXTERIOR DOWELS FOR CMU OR CONCRETE WALLS. PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS
- 10. BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES. 11. EXTEND THE SLAB REINFORCING STEEL, PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL O BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER
- 12. PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE "Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS. 13 ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF
- SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB. 14. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
- 15. WELDING OF REINFORCING STEEL, IF PERMITTED BY THE STRUCTURAL ENGINEER, SHALL BE 19. PERFORMED IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE REINFORCING STEEL" ON THE AMERICAN WELDING SOCIETY, AWS D1.4-96 AS INCORPORATED IN CBC CHAPTER No. 19. AND BY CERTIFIED WELDERS QUALIFIED USING PROCEDURES CONTAINED THEREIN. E70XX ELECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON EQUIVALENT (C.E.) IS PERFORMED. THE C.E. OF REINFORCING STEEL SHALL BE CALCULATED FORM THE CHEMICAL COMPOSITION AS SHOWN IN THE MILL EST REPORT. IF MILL TEST REPORTS ARE NOT AVAILABLE. A CHEMICAL ANALYSIS SHALL BE
- MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL NOT EXCEED 0.55 AS CALCULATED PER IBC CHAPTER 19. A COPY OF THE MILL TEST OF REINFORCING STEEL IN CONCRETE MEMBERS. (SPECIAL INSPECTION IS REQUIRED FOR ALL FIFLD WFLDING) 16. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.

17. CONCRETE COVER FOR REINFORCING AS FOLLOWS:

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

#### 18. LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: MASONRY - GRADE 60: LAP 50 DIA. (30" MIN.)

	GRADE 40: LAF	P 48 DIA. (24" MI	N.)	
CONCRET	E - LAP PER SCH	IEDULE BELOW		
	BAR SPLICE	LAP LENGTH IN	I CONCRETE	
BAR	f'c =	f'c =	f'c =	f'c =
SIZE	2000 PSI	3000 PSI	4000 PSI	5000 PSI
#3	22	22	22	22
#4	29	29	29	29
45	40	26	26	26

#3	22	22	22	22
#4	29	29	29	29
#5	40	36	36	36
#6	57	46	43	43
#7	77	63	54	54
#8	100	82	71	71
#9	128	104	90	90
#10	162	132	115	115
#11	200	163	141	141
FOR WELDED WIRE FABRIC: SPACING OF WIRE PLUS 12".				

## STRAIGHT SHAFT PIERS

- 1. CONCRETE PIERS SHALL BE PER SCHEDULE OR DETAIL. THE ACTUAL ELEVATION SHALL BE DETERMINED IN THE FIELD BY A GEOTECHNICAL ENGINEER LICENSED IN
- THE STATE OF TEXAS WITH EXPERIENCE IN THIS AREA. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL AND SHALL CONFORM TO
- ASTM A-615. GRADE 60. 3. ALL REINFORCING STEEL SHALL BE CONTINUOUS WITH SPLICES LAPPED 75 BAR DIAMETERS
- 4. CENTER FOOTING UNDER COLUMN OR WALL UNLESS DIMENSIONED OTHERWISE. . PIER SHAFT SHALL BE DRILLED PLUMB ALONG ITS TOTAL LENGTH (1" PER 10'-0" MAXIMUM TOLERANCE
- 6. BOTTOM OF PIER TO BE CLEAN AND FREE OF ALL LOOSE MATERIALS AND WATER. 7. CENTER STEEL CAGE IN SHAFT WITH A MINIMUM 3 LEVELS OF CONCRETE BLOCK SPACERS (8 FT. MAXIMUM SPACING), AT BOTTOM WITH A MINIMUM OF 3" CONCRETE SEAT BLOCKS.
- DO NOT RAISE CAGE OFF OF PIER BOTTOM DURING CONCRETE PLACEMENT. 9. CONCRETE AND REINFORCING IN SHAFTS SHALL BE PLACED THE SAME DAY AS DRILLING
- 10. PIERS SHALL BE FOUNDED IN UNDISTURBED NATURAL SOIL. 11. CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER FOR VERIFICATION OF PIERS BEARING STRATUM AT TIME OF DRILLING. 12. WIDEN AND DEEPEN GRADE BEAMS ALL AROUND PIER LOCATIONS TO ASSURE
- CONCRETE COVERAGE. 13. PROVIDE INSPECTING ENGINEER WITH AN ELECTRIC LIGHT AND PLUMB-BOB TO OBSERVE ALL DRILLED PIERS. 14. ALL DRILLED PIERS SHALL BE FREE OF WATER PRIOR TO PLACING OF CONCRETE.
- 15. PIER HOLES SHALL NOT BE LEFT OPEN OVERNIGHT (NO EXCEPTIONS). 16. PROVIDE STEEL CASING AS REQUIRED TO PREVENT CAVE-IN AND TO SEAL OFF SUBSURFACE WATER.
- 17. STEEL CASING SHALL BE REMOVED DURING CONCRETE PLACEMENT SEQUENCE. 18. CONTRACTOR SHALL INCLUDE IN BID DOCUMENTS THE COSTS FOR CASING (TO BE DETERMINED ON JOB SITE BY GEOTECHNICAL ENGINEER) AND UNIT COSTS FOR
- GREATER AND LESSER DEPTH OF DRILLING. 19. REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR CONCRETE PLACEMENT FOR THE PIER 20. SEE GEOTECHNICAL INVESTIGATION REPORT FOR ADDITIONAL INFORMATION.

#### STRUCTURAL STEEL

REQUIRED

1.	MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE AISC
	SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL
	STEEL FOR BUILDINGS.

MATERIAL	DESIGNATION	STRENGTH
ANCHOR BOLTS	A36	Fy=36 ksi
PLATES	A572	Fy=50 ksi
ANGLES	A36	Fy=36 ksi
CHANNELS	A36	Fy=36 ksi
WIDE FLANGE SHAPES	A572	Fy=50 ksi
SQUARE & RECT. STEEL TUBES (HSS)	A1085	Fy=50 ksi
ROUND TUBES (HSS)	A1085	Fy=50 ksi

ACCORDANCE WITH THE SPECIFICATIONS FOR THE DESIGN. FABRICATION. AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS AMENDED TO DATE AND THE CODE OF STANDARD PRACTICE, LATEST EDITION AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS FOLLOWS: SECTION 4.2.1. DELETE FIRST TWO SENTENCES SECTION 7., ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL CONTRACTOR.

- SECTION 7.9.3, THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF PLACEMENT OF NON-SELF SUPPORTING STEEL FRAMES. SECTION 7.9.4, THE CONTRACTOR TO DESIGN SHORES, JACKS OR LOADS. WELDING SHALL BE DONE IN ACCORDANCE WITH THE STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION AS PUBLISHED BY THE AMERICAN WELDING SOCIETY, EXCEPT THAT ALL WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO ANSI/AWS D1.1-04 5. DETAILED AND OR SCHEDULED CONNECTIONS HAVE NOT BEEN DESIGNED BY STRUCTURAL ENGINEER. ANY CONNECTION NOT DETAILED OR SCHEDULED OR ALTERED FOR FABRICATION PURPOSES SHALL BE SIZED AND DETAILED BY FABRICATOR AND SHALL BE MARKED FOR ENGINEER'S VERIFICATION. FABRICATOR SIZED AND DETAILED CONNECTIONS SHALL SUPPORT 55% OF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE TABLES OF UNIFORM CONSTANTS. PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE GIVEN BEAM, SPAN AND GRADE OF STEEL SPECIFIED. THE EFFECT OF ANY CONCENTRATION LOADS MUST BE TAKEN INTO ACCOUNT.
- SEE ARCHITECTURAL PLANS FOR MISCELLANEOUS STEEL ITEMS NOT INDICATED ON STRUCTURAL DRAWINGS. STEEL ITEMS SHOWN ON ARCHITECTURAL DRAWINGS AND NOT SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGN BY THE STEEL FABRICATOR. SEE DESIGN CRITERIA FOR LOADING. ALL WELDED CONNECTIONS SHALL BE MADE USING 1/4" FILLET WELD, U.N.O.
- ALL BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER HIGH STRENGTH BOLTS, ASTM A325, BEARING TYPE CONNECTION w/ WASHERS ASTM F436, U.N.O. ON DESIGN DRAWINGS. SPECIAL INSPECTION REQUIRED FOR ALL HIGH STRENGTH BOLTING. ALL NUTS SHALL BE PER ASTM A563 9. ALL CONNECTION PLATES AND STIFFENERS SHALL BE MADE WITH 1/4" THICK PLATES,
- UNLESS OTHERWISE NOTED ON PLANS. 10. ALL STEEL (INCLUDING BOLTS) EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED. (INCLUDES STEEL THAT IS ONLY COVERED WITH PLASTER OR STUCCO). SEE ARCHITECTURAL PLANS IF STRICTER REQUIREMENTS ARE REQUIRED.
- 11. ALL EXPOSED STEEL SHALL FOLLOW SECTION 10 OF THE CODE OF STANDARD PRACTICE OF AISC. SECTION 10 OF THE CODE ADDRESSES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) CONNECTIONS SHALL BE PER HOLLOW STRUCTURAL SECTIONS, CONNECTION MANUAL BY AISC
- WHERE STEEL MEMBER PASS THROUGH CMU WALLS. PROVIDE HALF INCH GAP BETWEEN THE CMU AND THE STEEL MEMBER. PROVIDE ELASTOMERIC MATERIAL BETWEEN THE THE STEEL MEMBER AND CMU WALL. 14. ALL BEAMS NOT SHOWN SHALL BE W18x55. ALL COLUMNS NOT SHOWN SHALL BE HSS8x8x1/2
- 15. STEEL SHOP SHALL BE AISC CERTIFIED. HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED. UNLESS NOTED OTHERWISE, HOLES SHALL BE STANDARD SIZE 1/16 INCH LARGER THAN THE BOLT.
- ALL STRUCTURAL STEEL SHAPES SHALL BE PRIMED WITH A RUST RESISTANT PRIMER BEFORE SHIPMENT TO THE PROJECT SITE. PRIMER SHALL NOT BE APPLIED TO THE IMMEDIATE AREA OF STEEL INTENDED TO RECEIVE SLIP CRITICAL BOLTED CONNECTIONS HIGH STRENGTH BOLTS INSTALLATION SHALL BE CONTINUOUSLY INSPECTED BY A SPECIAL INSPECTOR. FOLLOWING ARE REQUIREMENTS OF THE SPECIAL INSPECTOR: A. HE SHALL VERIFY THE MILL CERTIFICATES FOR MATERIAL
- B. HE SHALL VERIFY THAT THE MATERIAL USED ARE PROPERLY STORED AND PREPARED FOR USE. C. HE SHALL VERIFY THAT CONSTRUCTION DETAILS. PROCEDURES, TOOL CALIBRATIONS
- WORKMANSHIP ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND AND BUILDING CODE. D. FOR SNUG-TIGHT CONNECTIONS, HE SHALL VERIFY THAT THE PLIES OF THE CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO SNUG CONTACT WITH EACH
- OTHER. E. FOR SLIP-TIGHT CONNECTIONS, HE SHALL VERIFY THE PRETENSION METHOD
- SELECTED BY THE CONTRACTOR HAS INDUCED THE REQUIRED MINIMUM TENSION IN THE BOLT. F. A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY THE SPECIAL INSPECTOR TO THE BUILDING OFFICIAL PRIOR TO HIS INSPECTION AND TO THE ARCHITECT
- AND ENGINEER. WELDING IN THE FIELD SHALL BE CONTINUOUSLY INSPECTED, BY A SPECIAL INSPECTOR FOLLOWING ARE REQUIREMENTS OF THE SPECIAL INSPECTOR: A. HE SHALL VERIFY THAT THE MATERIAL USED ARE PROPERLY STORED AND
- PREPARED FOR USE. B. HE SHALL VERIFY THE WELDER'S QUALIFICATIONS. C. HE SHALL VERIFY THAT CONSTRUCTION DETAILS, PROCEDURES AND WORKMANSHIP
- ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND BUILDING CODE. D. A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY THE SPECIAL INSPECTOR TO THE BUILDING OFFICIAL PRIOR TO HIS INSPECTION AND TO THE ARCHITECT

AND ENGINEER. 20. ALL NON SHRINK GROUT FOR LEVELING OF BASE PLATES SHALL HAVE A MINIMUM 5000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GROUT SHALL COMPLY WITH CORPS OF ENGINEERS SPECIFICATION CRD-C 621

### 21. AT ALL TUBES, PROVIDE 3/8" THICK END PLATE, U.N.O.

Structural steel connections shall be designed and detailed by the Contractor under the direct supervision of a Professional Engineer licensed in the State of Texas. Submit sealed calculations for all connections designed by the Contractor for our files. Base Plates

a. Column base plates shall be leveled using shims or by double nuts on anchor bolts. The base plates shall be grouted with a non-shrink, high strength nonmetallic grout. The tightening of anchor bolts shall be done after supported members have been positioned and plumbed b. Hole sizes in base plates shall be oversized per AISC section J3.2 OR J9. c. Anchor rods shall be:

i. Typical: ASTM F1554 Gr. 55 ii. High Strength: ASTM F1554, Gr. 55, Weldable.

#### ALLOWANCE

- IN ADDITION TO THE MATERIAL SHOWN. THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL, FOR USE ON THE PROJECT AS DIRECTED BY THE STRUCTURAL ENGINEER FIELD REPRESENTATIVE. THE ALLOWANCE COST SHALL INCLUDE MATERIAL COST,
- LABOR COSTS AND PLACEMENT AT THE SITE. REMAINING BALANCE AT THE END OF THE PROJECT SHALL BE RETURNED/CREDITED BACK TO THE OWNER
- THE ALLOWANCE SHALL APPEAR ON THE SCHEDULE OF VALUE AS A LINE ITEM. ALLOWANCE MATERIAL
- 20 CU. YD. CONCRETE 12000 LBS REINFORCING STEEL STRUCTURAL STEEL 20000 LBS 2000 SQ. FT.

#### **SPECIAL NOTES TO OWNER**

- UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AND MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS Serviceability AND STRENGTH REQUIREMENTS, IT IS EMPHASIZED THAT AI THOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS. IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED. REFER TO THE NOTES UNDER "ALLOWANCES". THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO
- CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILI PFRSIST

#### **CAST-IN-PLACE CONCRETE**

VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE NSTITUTE SPECIFICATIONS, ACI #301-05, OR LATEST EDITION. DRILLED PIERS SHALL COMPLY WITH ACI 336.1-01 AND ACI 336.3R-05 ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, ACCESSORIES LINEESS OTHERWISE NOTED SHALL BE IN ACCORDANCE WITH THE ACL "MANUAL OF

STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315 LATEST EDITION THE MINIMUM 28 DAYS CYLINDER STRENGTH SHALL BE AS FOLLOWS:				
LOCATION	STRENGTH AT 28 DAYS	MAXIMUM SLUMP	SIZE OF LARGE AGGREGATE	WATER/CEMEN RATIO
FOUNDATIONS	3000 PSI	5"	1 1/2"	0.55
SLAB ON GRADE	3000 PSI	5"	1 1/2"	0.55
GRADE BEAMS	3000 PSI	5"	1 1/2"	0.55
WALL	3000 PSI	6"	3/4"	0.55

- NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS. VERTICAL CONSTRUCTION JOINTS IN SLABS ARE TO BE AS SHOWN ON PLANS OR AS APPROVED BY ENGINEER
- ALL OPENINGS IN SLAB (FOR PIPING, DRAINS, ETC.) SHALL BE SEALED WITH 1/2 SEALANT '2A' (SELF-LEVELING 2-PART POLYURETHANE). UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHOULD BE DESIGNED WITH EITHER SOME DEGREE OF FLEXIBILITY OR WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO
- THESE LINE SHOULD VERTICAL MOVEMENT OCCUR. BACKFILL AROUND PERIMETER TO PROVIDE POSITIVE DRAINAGE AWAY FROM SLAB. FLOOR TOLERANCES
- F-NUMBER SYSTEM MINIMUM LOCAL VALUE COMPOSITE FLATNESS (F) F LEVELNESS (F)
- IN ALL INSTANCES MINIMUM SLAB THICKNESS SHALL BE OBTAINED. COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS. ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR
- TO PLACING CONCRETE. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS. GROOVES, REGLETS, ORNAMENTAL CLIPS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE, FOOTINGS, OR SLAB UNLESS SPECIFICALLY DETAILED IN THESE PLANS,
- OR AS DIRECTED BY THE ENGINEER. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. 14. CONCRETE TESTING SHALL BE ONE SET OF CYLINDERS FOR EVERY 50 CUBIC YARDS OR PORTION THEREOF FOR EACH TYPE OF CONCRETE POURED ON ANY GIVEN DAY. ONE SET CONSISTS OF 2 CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND
- 2 CYLINDERS AT 28 DAYS. 15. VAPOR RETARDANT A. VAPOR RETARDANT (UNDER SLAB): SHALL CONFORM TO ASTM E1745, CLASS A OR BETTER AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. VAPOR RETARDANT SHALL BE NOT LESS THAN 15 MILS THICK.
- APPROVED PRODUCTS A. STEGO WRAP BY STEGO INDUSTRIES LLC. (887) 464-7834. GRIFFOLYN T-65 BY REEF INDUSTRIES (800) 231-6074.
- RUFCO D16WB BY RAVEN IND. AT TEXAS ENVIRONMENTAL PLASTIC: (281) 821-7320. INSTALLATION A LAY SHEETS SMOOTHLY. STRETCH AND WEIGHT EDGES, LAP JOINTS TWELVE (12) INCHES AND SEAL WITH TAPE AS SPECIFIED BY VAPOR RETARDANT MANUFACTURER. TURN BARRIER UP SIX 6 INCHES AT WALLS AND AT ALL PIPES, ABUTMENTS, ETC.
- TAPE AND SEAL AT PENETRATIONS AND AT EDGES. B. AT GRADE BEAMS, EXTEND VAPOR RETARDANT DOWN SIDES OF BEAM TRENCHES (AND FOOTING EXCAVATIONS) TO WITHIN 4" OF TRENCH BOTTOM AND SECURE TO SIDES OF TRENCH. DO NOT EXTEND RETARDANT ACROSS BOTTOM OF BEAM TRENCH.
- PATCHING A. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND TAPE AROUND ENTIRE PERIMETER OF REPAIR.
- ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUITS OR PLUMBING LINES SHALL NOT BE GREATER THAN 1 INCH DIAMETER AND SHALL BE PLACED NEAR THE CENTER OF THE SLAB AS MUCH AS POSSIBLE.
- A PRE-INSTALLATION CONFERENCE 1. AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE SLAB CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION THE CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
- THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PART CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: A) CONTRACTOR'S SUPERINTENDENT
  - B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY CONTROL C) READY-MIX CONCRETE PRODUCER
  - D) CONCRETE SUBCONTRACTOR E) ADMIXTURE MANUFACTURER(S)
  - F) LIQUID DENSIFIER AND SEALER MANUFACTURER G) LIQUID DENSIFIER AND SEALER APPLICATION
- H) JOINT FILLING APPLICATOR MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED BY HIM TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN
- CONCRETE SUBCONTRACTOR QUALIFICATION: THE CONCRETE SUBCONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE CONTRACTOR, SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTOR'S ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE FLOOR SLAB TOLERANCES SPECIFIED IN THIS SECTION. THE CONCRETE SUBCONTRACTOR'S TEAM SHALL HAVE PARTICIPATED IN THE MAJORITY OF THESE PROJECTS, AND THAT TEAM SHALL REMAIN THE SAME THROUGH THE DURATION OF THIS PROJECT.
- CONCRETE MATERIAL:

FIVE DAYS OF THE MEETING.

- PORTLAND CEMENT: ASTM C 150, TYPE I. USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT COARSE AND FINE AGGREGATES: ASTM C33. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNATED CONCRETE SHALL BE 8% - 18% FOR LARGE TOP AGGREGATES (1 1/2") OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES (1" OR 3/4") RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100 SIEVE. SLABS ON GRADE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 1-1/2" FOOTINGS AND PIERS 1" AND BEAMS 3/4".
- WATER: COMPLYING WITH ASTM C 94. 4. ALL CONCRETE SHALL CONTAIN "POZZOLITH" ADMIX AS PER MANUFACTURER'S SPECIFICATIONS, IN ACCORDANCE WITH ASTM C494.
- ADMIXTURES: AIR-ENTRAINING ADMIXTURES: SHALL CONFORM TO ASTM C-260. ADMIXTURE MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE AIR-ENTRAINING ADMIXTURE IS COMPATIBLE WITH OTHER REQUIRED ADMIXTURES. ALL EXTERIOR SLABS SHALL BE AIR-ENTRAINED (4% - 6%). ACCEPTABLE PRODUCTS: EUCLID CHEMICAL AEA-92 AND AIRMIX 200, MASTER BUILDERS MICROAIR, W.R. GRACE DARAVAIR 1000 AND DAREX-11
- NOTE: AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED ON INTERIOR CONCRETE. WATER-REDUCING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL WR-89 AND WR-91, MASTER BUILDERS 200N AND 322N, W.R. GRACE WRDA 36 AND WRDA 64.
- 3. WATER REDUCING, RETARDING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL RETARDER 75, MASTER BUILDERS POZZOLITH R, W.R. GRACE DARATARD 17 4. HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): SHALL CONFORM TO
- ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS : EUCLID CHEMICAL EUCON 37, MASTER BUILDERS REOBUILD 1000 W.R. GRACE DARACEM - 1000 5. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMIXTURE: SHALL CONFORM ASTM C494, TYPE C OR E, AND CONTAIN NOT MORE CHLORIDE IONS THAN ARE
- PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUS HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTE MEASURES. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL ACCELGUARD 80/90 AND
- ACCELGUARD NCA, MASTER BUILDERS NC534 AND POZZUTEC 20, W.R. GRACE POLAR PROHIBITED ADMIXTURES: a.) CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED. b.) FLYASH; A MAXIMUM OF 20% AS CEMENT REPLACEMENT ALLOWED

3/8"

1/4"

1/4"

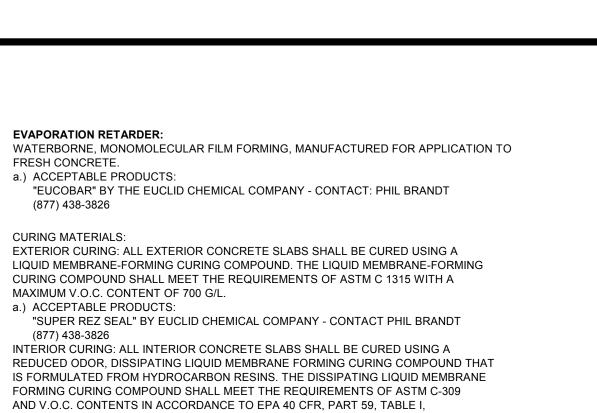
1/4"

1 1/2" 1/4"

1" 1/8"

1 1/2"

1 1/2"



AND V.O.C. CONTENTS IN ACCORDANCE TO EPA 40 CFR, PART 59, TABLE I, SUBPART D FOR CONCRETE CURING COMPOUNDS WITH A MAXIMUM V.O.C. CONTENT OF 350 G/L. APPLY AT 400 S.F./GALLON. a.) ACCEPTABLE PRODUCTS: "KUREZ DR VOX" BY THE EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826

ALL CONCRETE SLABS SHALL ALSO BE MAINTAINED MOIST FOR 7 DAYS

FRESH CONCRETE

(877) 438-3826

CURING MATERIALS:

(877) 438-3826

TER/CEMENT

- CONCRETE MIXES COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXTURE, U.N.O.. PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA AS FOLLOWS: CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED TO THE PROJECT. AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. THE LABORATORY MIX DESIGN SHALL NOT EXCEED THE DESIRED JOB STRENGTH OF CONCRETE BY 1.200 PSI. FOUR COPIES OF THE MIX DESIGN SHALL BE SUBMITTED TO THE OWNER BEFORE CONCRETE WORK
- SLUMP: CONCRETE CONTAINING HRWR SHALL HAVE A MAXIMUM SLUMP OF 8" (200MM). ALL OTHER CONCRETE SHALL NOT EXCEED 4 INCHES (100 MM) UNLESS OTHERWISE INDICATED ON THE DRAWINGS. 4. ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED
- BY CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT. AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY OWNER. LABORATORY TEST DATA FOR REVISED MIX DESIGN AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY OWNER BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN WILL PRODUCE A CONCRETE WHICH WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION. THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISHABILITY AND SETTING TIMES ARE APPROPRIATE FOR SLAB INSTALLATIONS. PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS. IF PUMPING OF THE CONCRETE IS CONTEMPLATED FOR ANY SPECIAL LOCATIONS, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO SUIT
- THE CAPABILITIES OF THE PUMPING EQUIPMENT. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94. WHEN AIR TEMPERATURE IS BETWEEN 85° AND 90° F, REDUCE MIXING AND DELIVERY TIME FROM 90 MINUTES TO 75 MINUTES: WHEN AIR TEMPERATURE IS ABOVE 90° F. REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.
- WATER CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL. CONTRACTION JOINTS IN SLABS-ON-GRADE: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS: SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR. NOTE: CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY. IF CHALK LINES ARE USED FOR SAW CUTS, ALL CHALK REMAINING ON SLAB SHALL BE REMOVED COMPLETELY AND IMMEDIATELY AFTER SAWING.
- FLOOR SLAB TOLERANCES: COMPLY WITH ACI 117. "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS." ALL INTERIOR FLOOR SLABS SHALL MEET THE REQUIREMENTS OF A TYPE 5, SINGLE COURSE, HARD STEEL - TROWELED FINISH AS DESCRIBED IN ACI 302.IR- LATEST EDITION.
- J. CONCRETE CURING AND PROTECTION: a) FIRST ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMI Y PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.
- b) SECOND. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN (7) DAYS AFTER PLACEMENT. a) TEFIRST, ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING. SURFACE SHALL BE DAMP. BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.
- b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND PONDED WITH WATER FOR SEVEN (7) DAYS AFTER CONCRETE PLACEMENT ) THIRD, CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S
- INSTRUCTIONS. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. INTERIOR SLAB PROTECTION TAKE THE FOLLOWING MEASURES TO PROTECT FLOOR SLAB:
- A. WRAP OR "DIAPER" ALL MOTORIZED AND HYDRAULIC EQUIPMENT TO PREVENT FI UID I FAKS. B. PROVIDE NON-MARKING TIRES ON RUBBER TIRED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC
- C. SOURCE FOR DIAPERS AND BOOTS: R&R TIRE SURFACE PROTECTORS, INC., FORT COLLINS CO 80526, (970) 266-4082 D. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS.
- E. COVER SLAB PRIOR TO PAINTING. ALL SPILLS TO BE CLEANED WITH SOAP AND WATER. LACQUER THINNER WILL NOT BE ACCEPTABLE

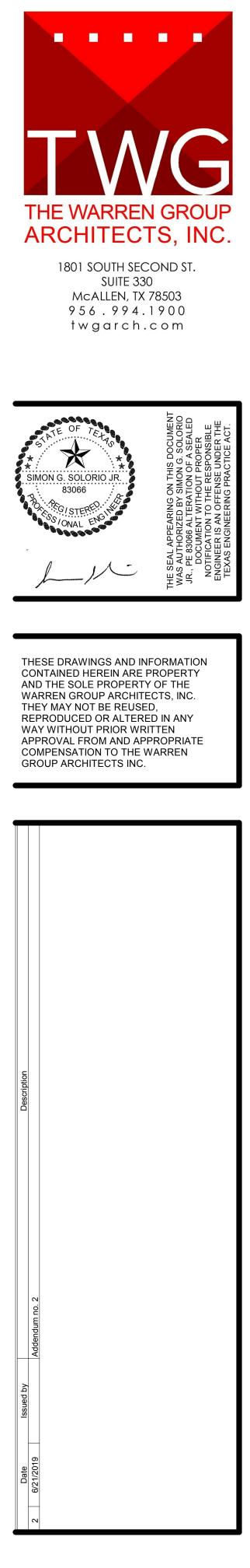
#### ABBREVIATIONS TYP TYPICAL

SIM	SIMILAR
T&S	TYPICAL AND SIMILAR
U.N.O.	UNLESS NOTED OTHERWI
CLR	CLEAR
(V)	VERTICAL
ČÁ	COLUMN ABOVE

### METAL STUDS

1 ТО		All metal studs indicated on the structural and architectural drawings indicate the maximum depth of the metal stud. The metal stud supplier shall retain a Texas Professional Engineer to design and detail the all the exterior and interior metal studs. Submit shop drawings including calculations for review
	 - -	
ARSET	P	RE STRESSED HOLLOW CORE CONCRETE SLABS
	1.	PLANK DESIGNATIONS AS SHOWN ON THE DRAWINGS ARE FOR PRE STRESSED HOLLOW CORE CONCRETE SLABS. AND MANUFACTURED ACCORDING TO THE FOLLOWING SPECIFICATIONS: CONCRETE STRENGTH 5000 PSI; 8" Deep hollow core, 36" wide and 48" wide
	3.	NOMINAL END BEARING = 3" PLANK HEADERS SHALL BE PROVIDED BY PLANK SUPPLIER TO SUPPORT PLANK ENDS AT FLOOR AND ROOF OPENINGS AS REQUIRED. PLANK SUPPLIER SHALL COORDINATE SIZES, LOCATIONS OF ALL FLOOR AND ROOF OPENINGS WITH ARCHITECTURAL PLANS.
	4.	PLANK DESIGNATIONS AS SHOWN ON THE CONTRACT DOCUMENTS ARE FOR BID PURPOSES ONLY. DESIGN OF HOLLOW CORE CONCRETE SLABS SHALL BE FURNISHED BY THE SLAB MANUFACTURER. SUCH DESIGN SHALL BEAR THE ENGINEERING REGISTRATION SEAL FOR THE STATE OF TEXAS OF THE APPROVED PRODUCT ENGINEERING DESIGNER. DRAWINGS AND
	5. 6. 7.	DESIGN SHALL BE PROVIDED FOR ENGINEER'S APPROVAL PRIOR TO SLAB FABRICATION. DESIGN LOADS SHALL BE AS NOTED IN THE DESIGN CRITERIA ON THESE DRAWINGS. CONCRETE TOPPING SHALL BE AS NOTED BELOW. REINFORCE THE CONCRETE TOPPING WITH NON-FERROUS OR METALIC REINFORCING TO MINIMIZE SHRINKAGE
	8. 9.	PROPOSED MATERIAL SHALL HAVE A FINISH AND BOND ACCEPTABLE TO ARCHITECT. EXTERIOR CONCRETE TOPPING SLAB CONCRETE SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI. MAXIMUM AGGREGATE SIZE SHALL BE 3/8" INTERIOR CONCRETE TOPPING SLAB CONCRETE SHALL DEVELOP A 28 DAY COMPRESSIVE
	10.	STRENGTH OF 3000 PSI. MAXIMUM AGGREGATE SIZE SHALL BE 3/8" MINIMIM THICKNESS OF INTERIOR TOPPING SHALL BE 2 INCHES. EXTERIOR TOPPING SHALL HAVE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE and TO BE MINIMUM FY = 60,000 PSI GALVANIZED HEADERS OR BLOCKOUTS SHALL BE DESIGNED BY HOLLOW CORE SUPPLIER. STEEL SHALL
		Provide 3" normal weight concrete topping with 6x6-W2.9xW2.9 wire mesh. wire mesh shall be in sheets, rolls not allowed
6	uu	





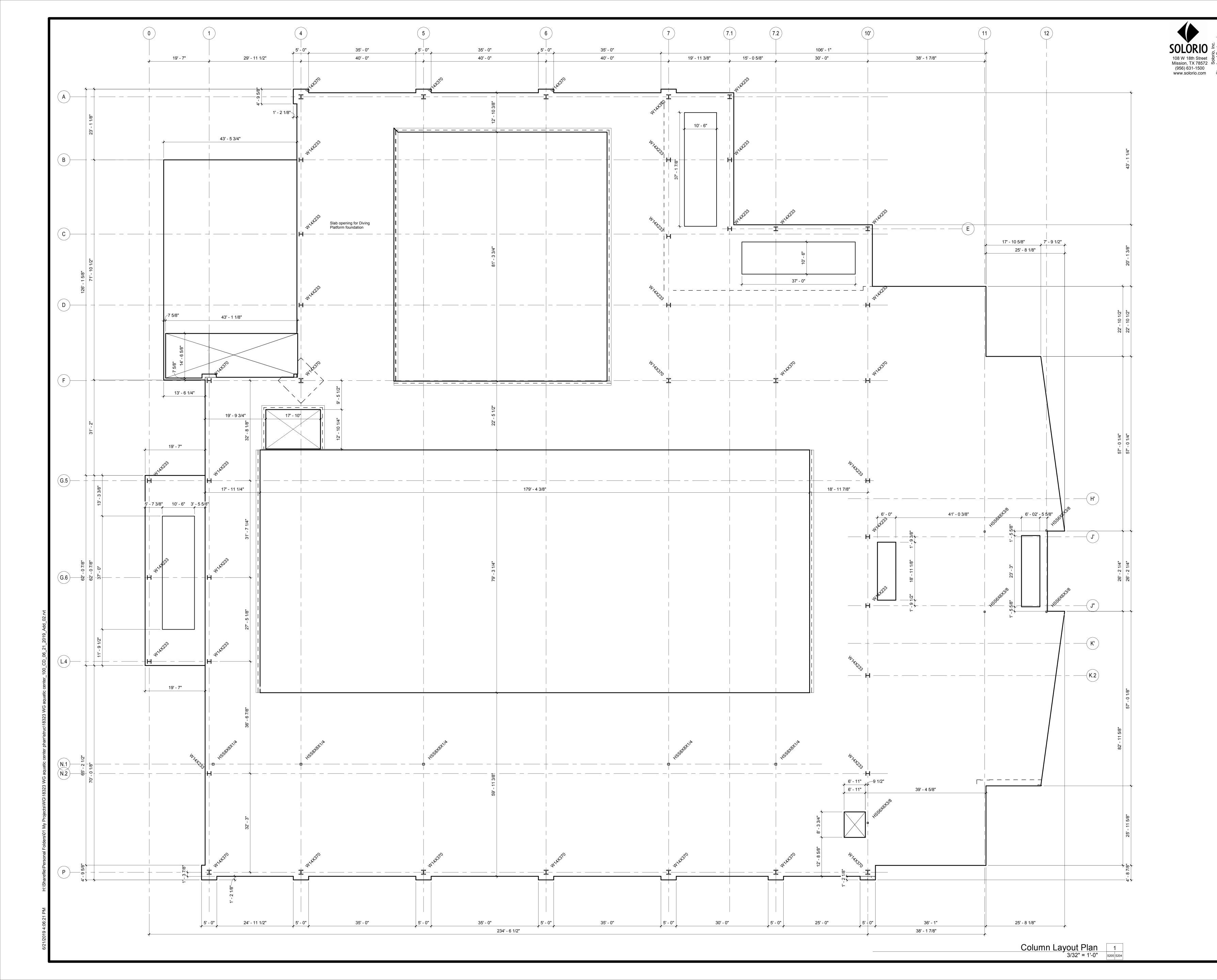
## General Notes

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AQUATIC FACILITY

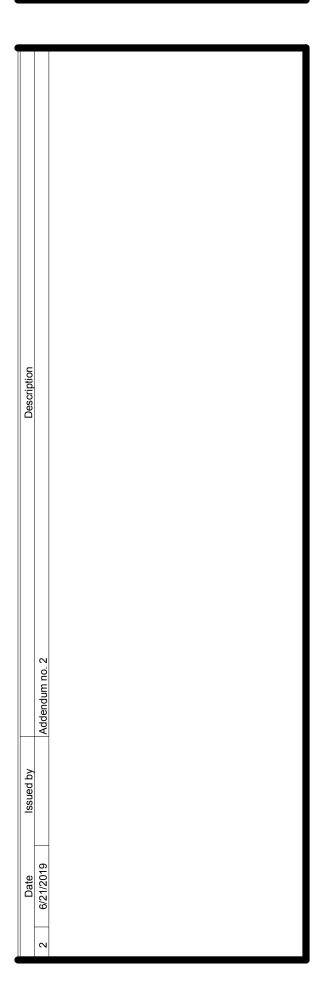
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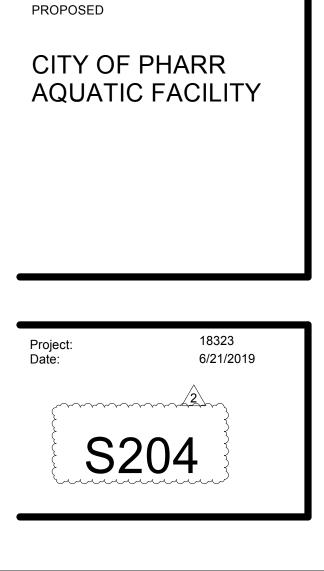


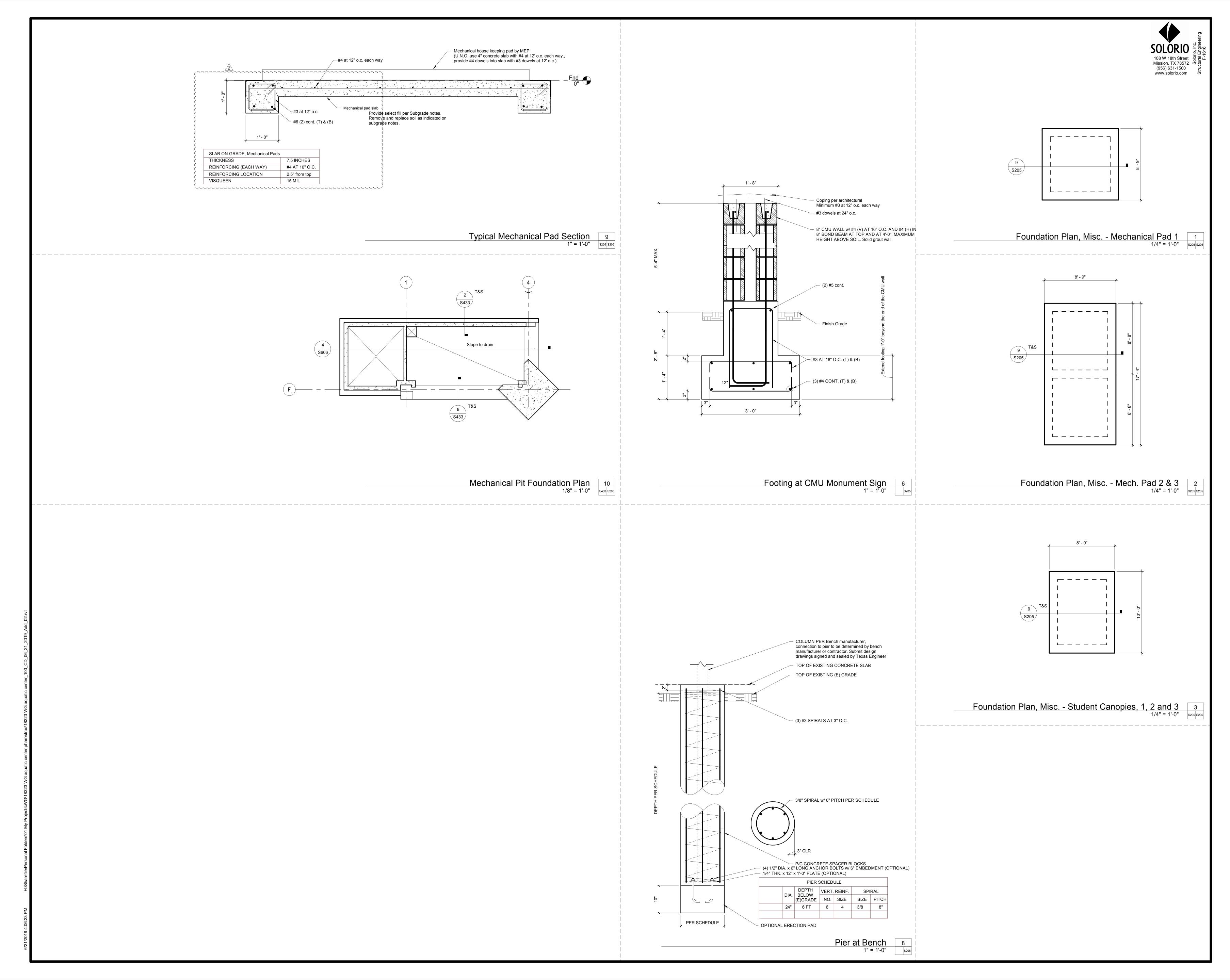
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## Column Layout Plan

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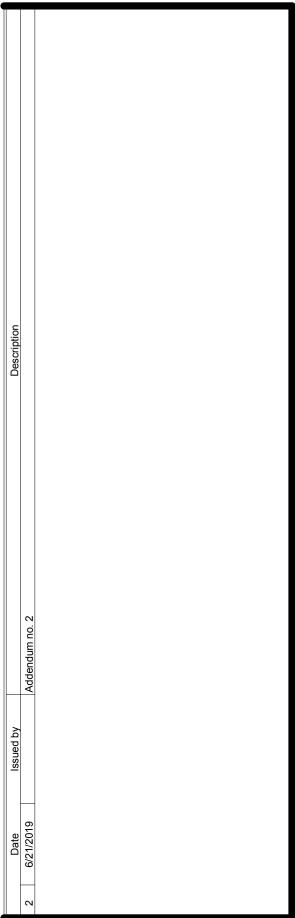






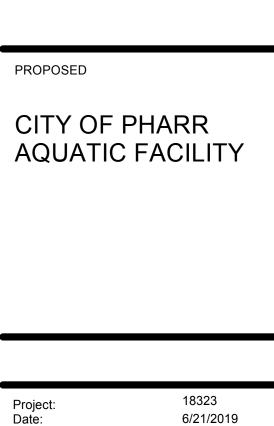


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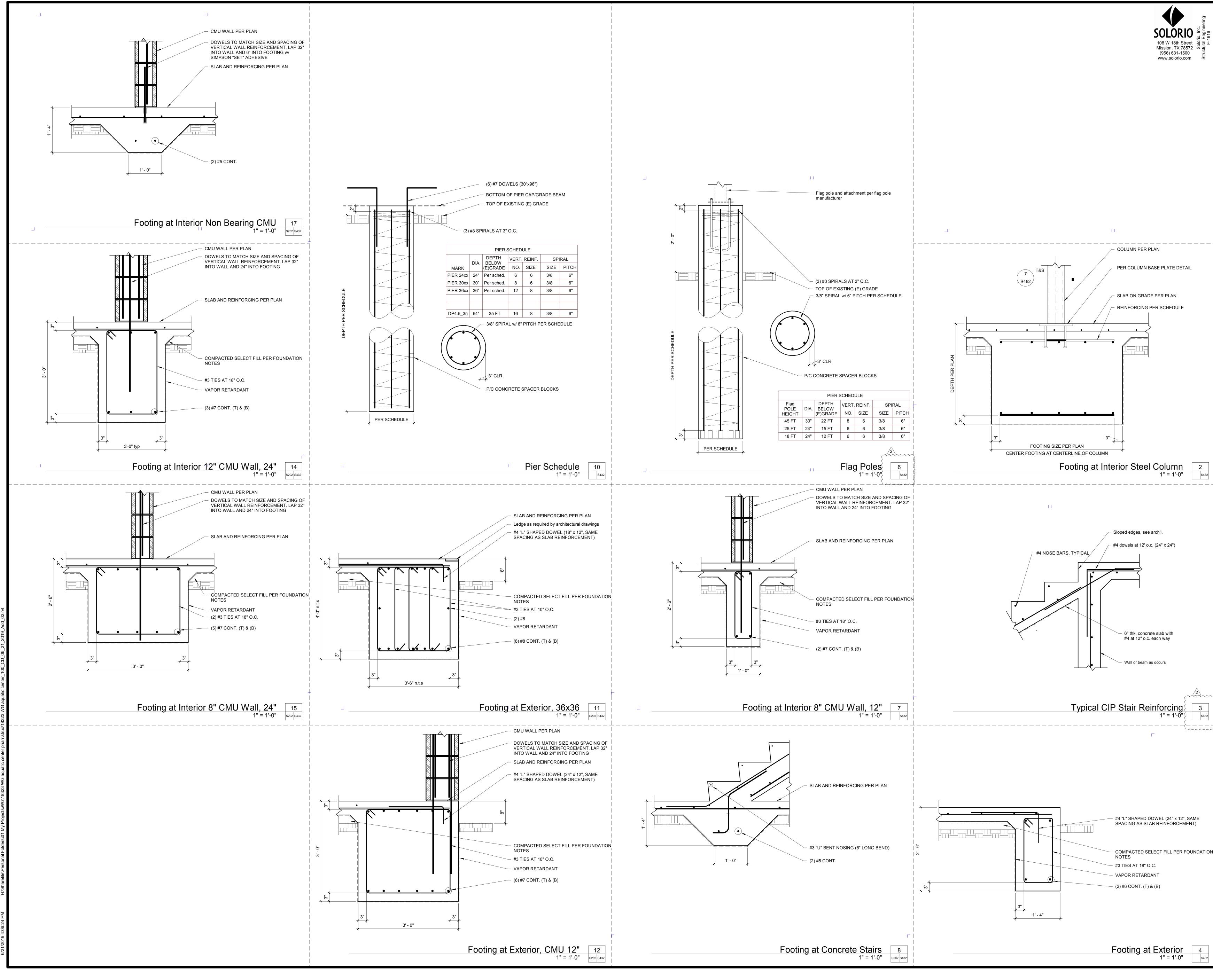


Misc. Structures

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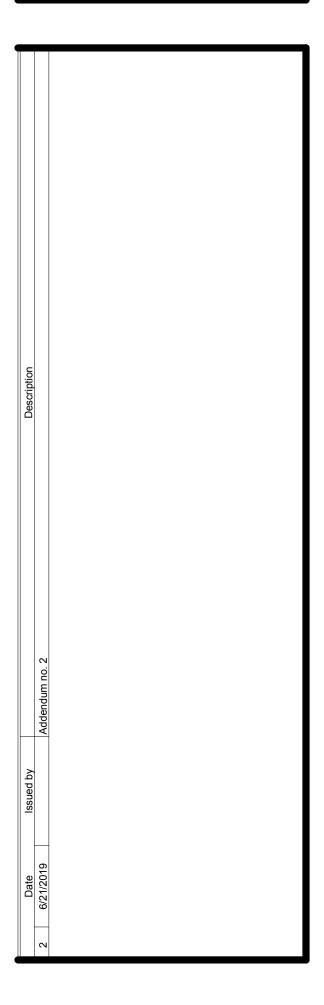
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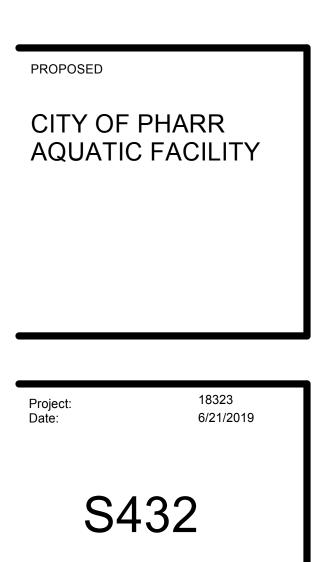


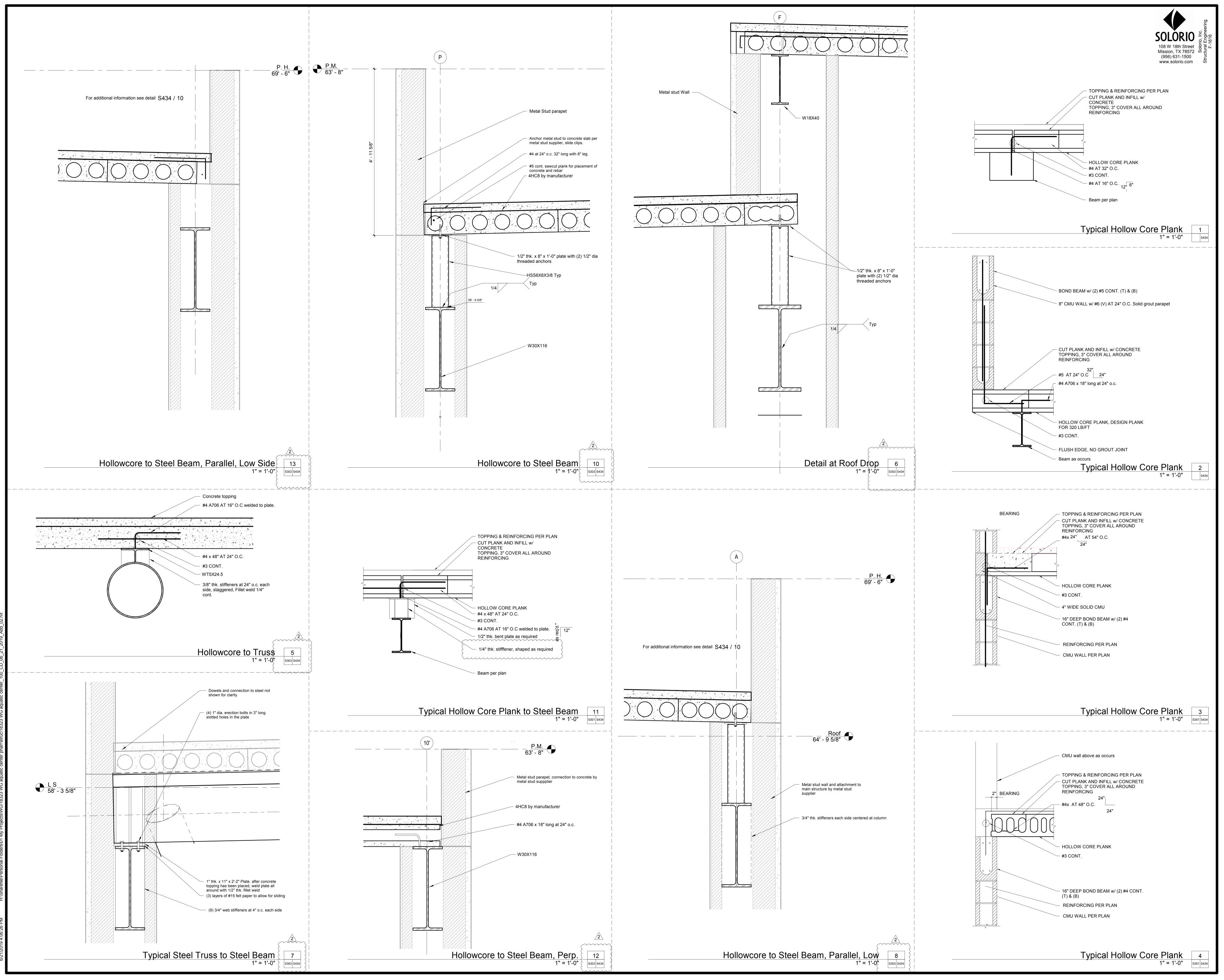
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## Foundation Details

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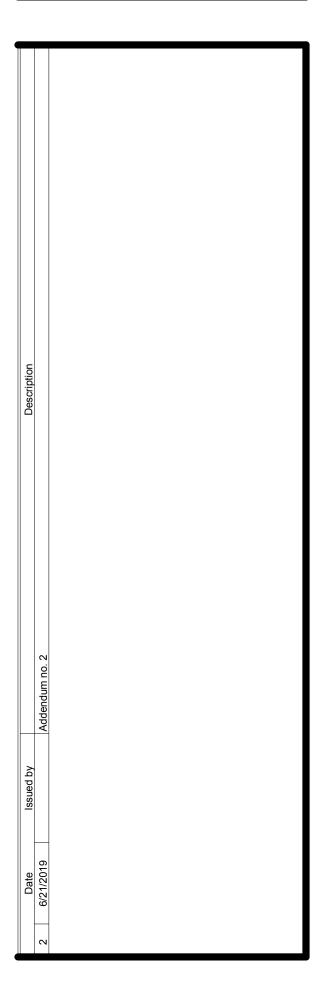






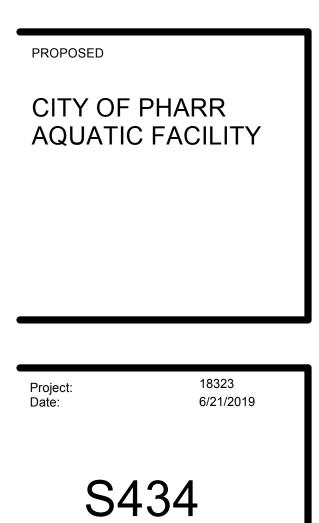


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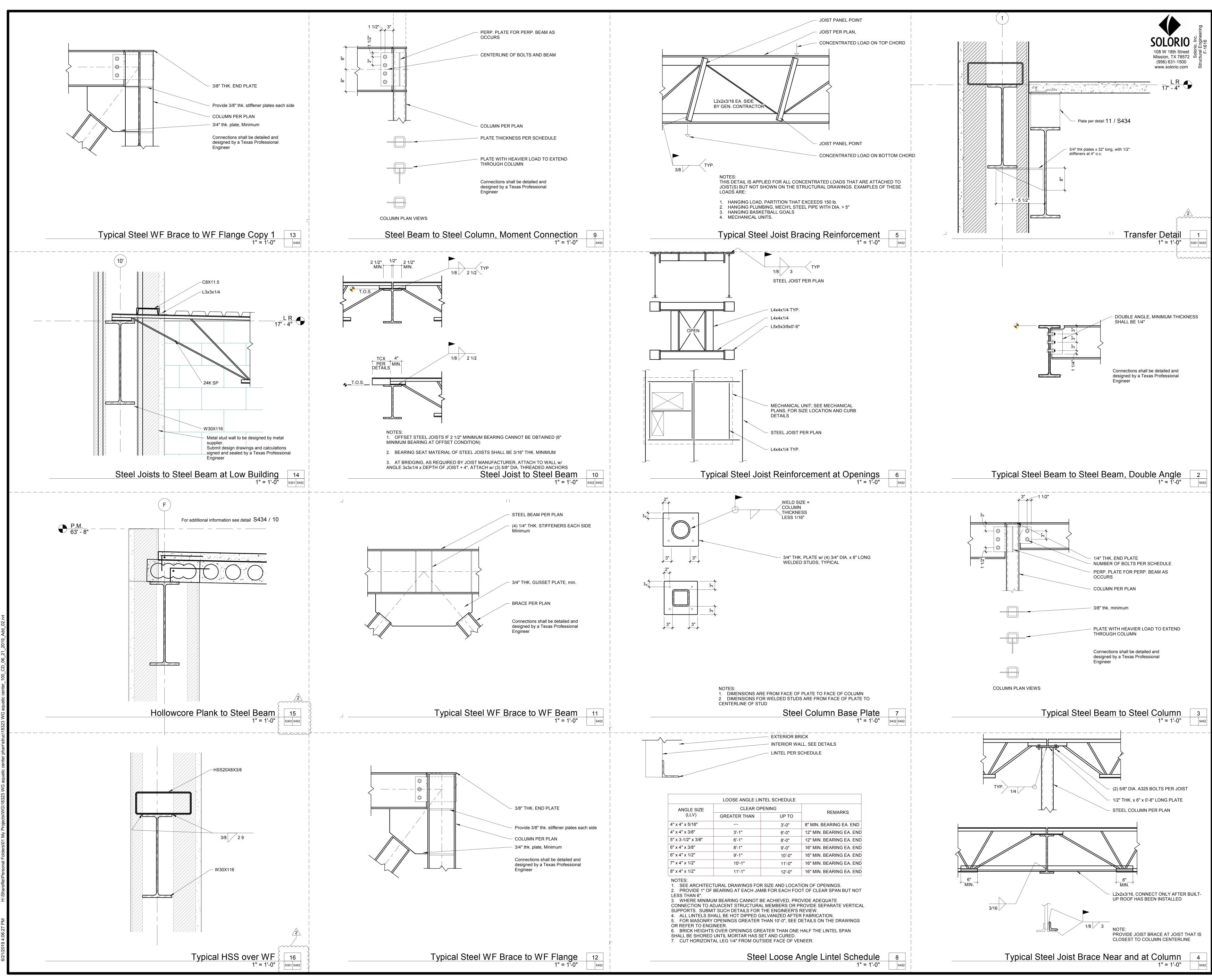
## Hollow Core Planks Details

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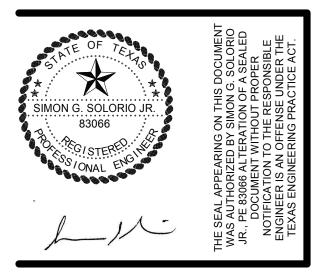




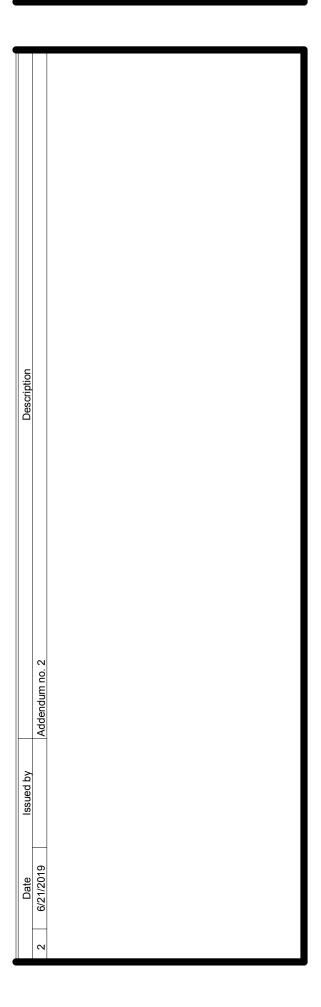






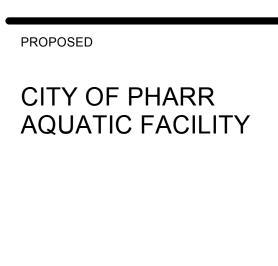


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## **Steel Framing Details**

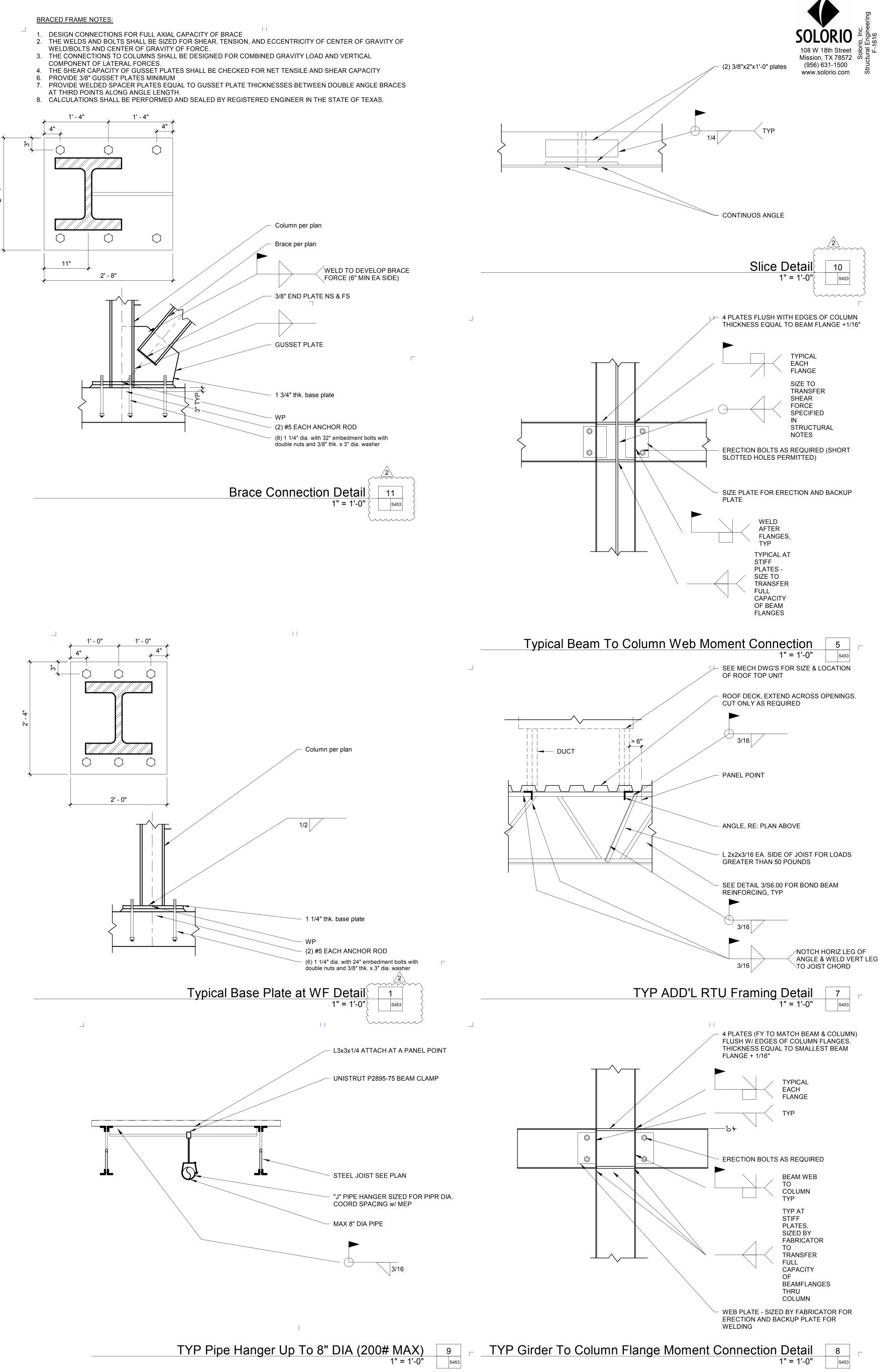
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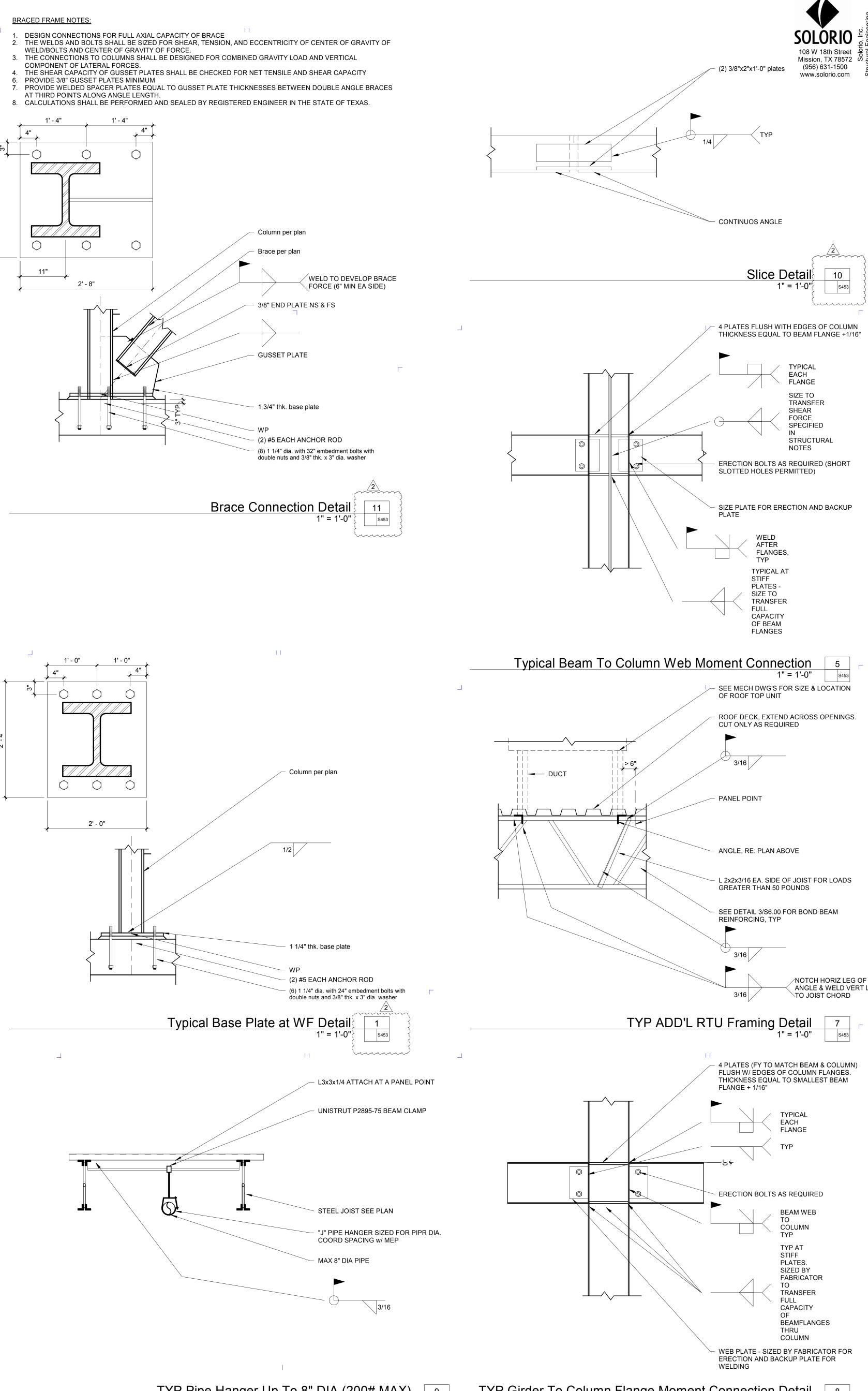
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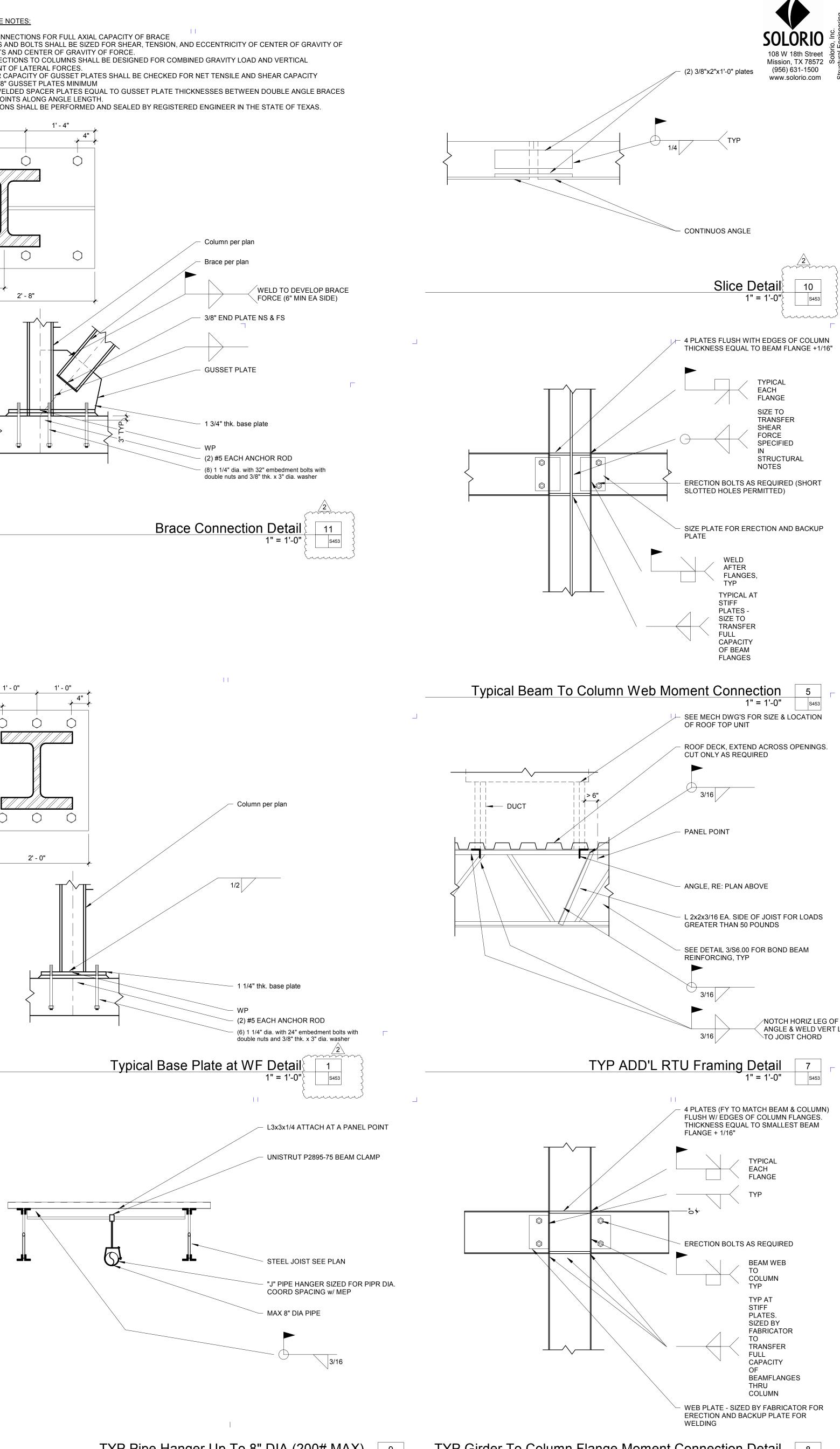
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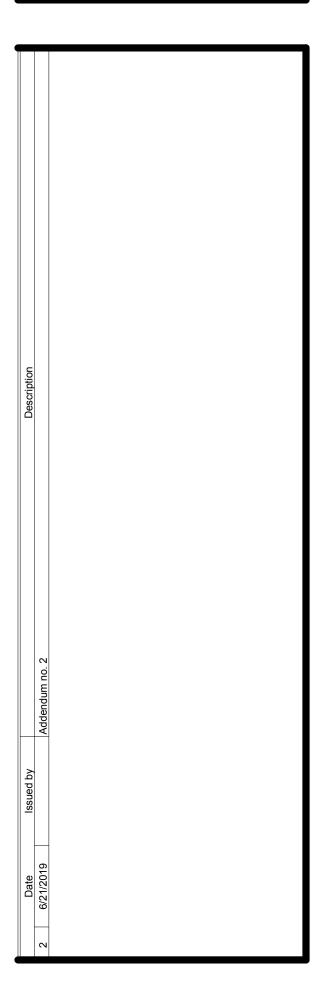






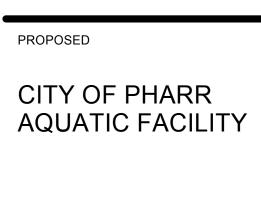


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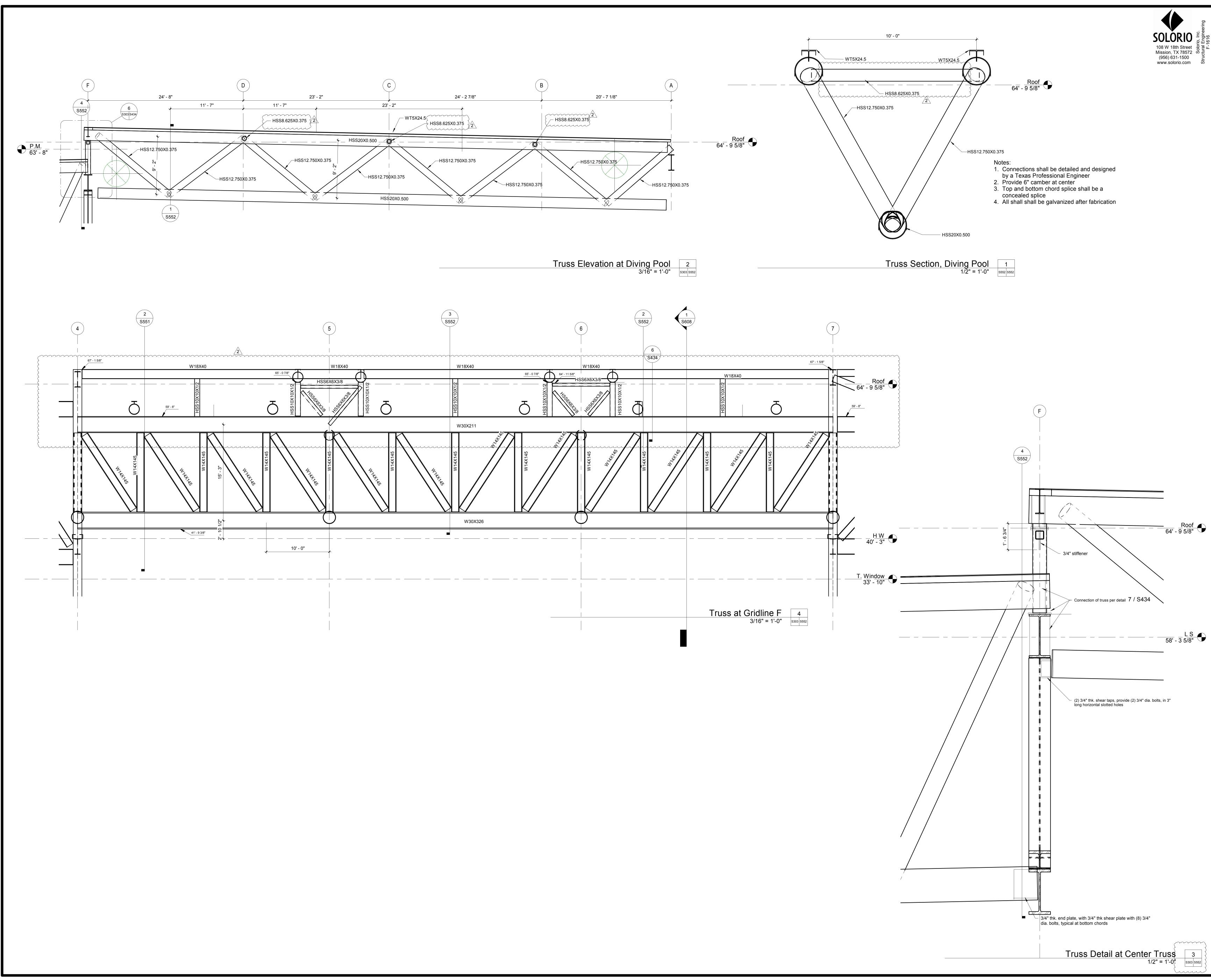
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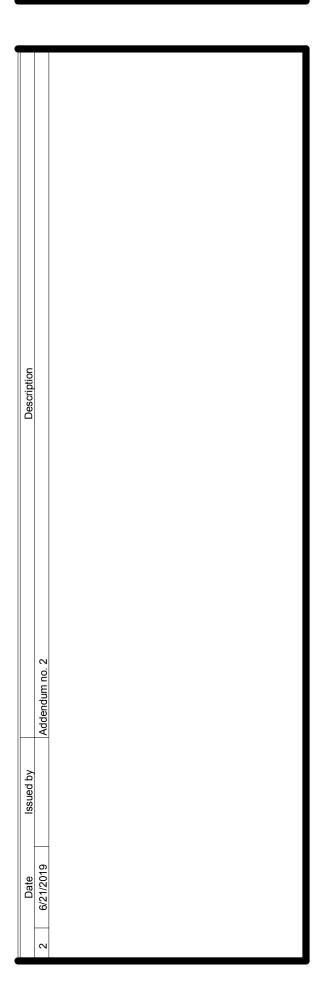
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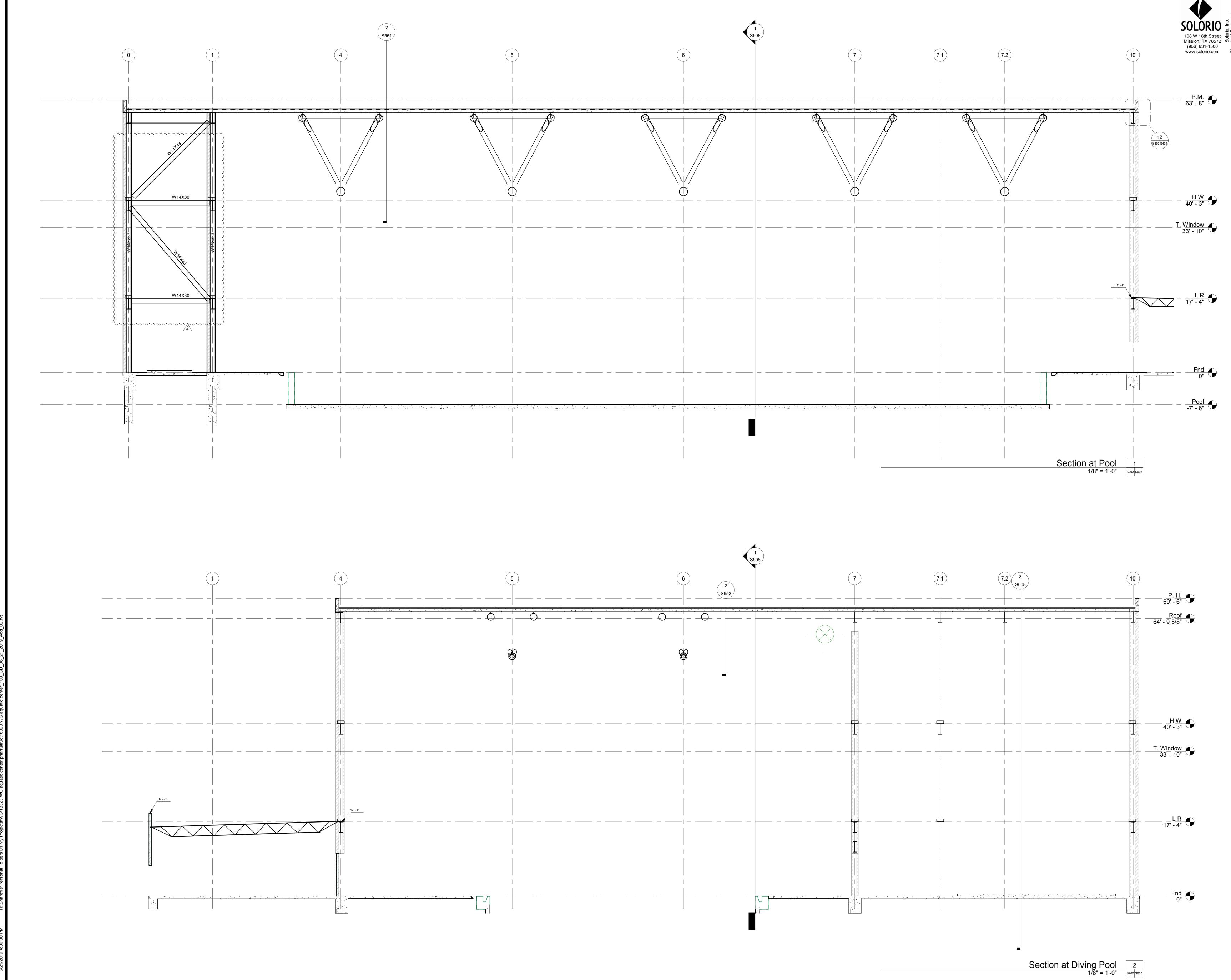
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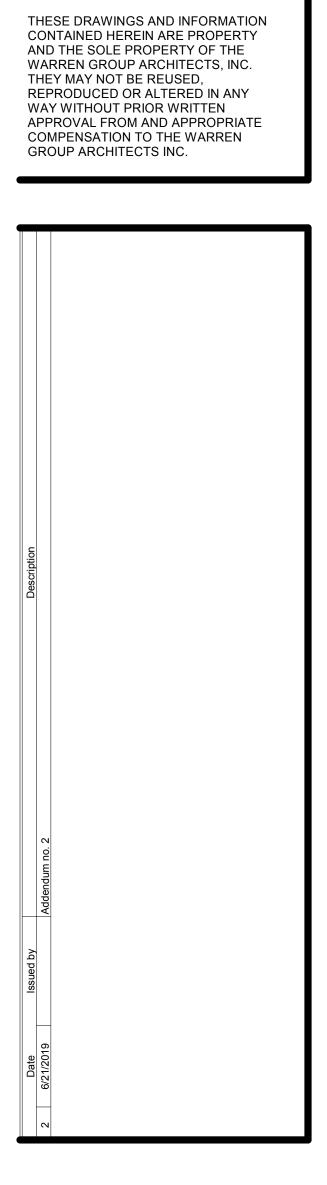
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**Building Sections** 



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