CITY OF PHARR INTERNATIONAL BRIDGE FACILITY EXPANSION AND RENOVATIONS

LOT 3, GSA SUBDIVISION PHARR, TEXAS 78507

CONSTRUCTION DOCUMENTS

DECEMBER 19,2018

Dr. Ambrosio "Amos" Hernandez

Eleazar Guajardo Roberto "Bobby" Carrillo

Ramiro Caballero

Daniel Chavez

Ricardo Medina

Mario A. Bracamontes

Alex Meade

Mayor

Commissioner

Commissioner

Commissioner

Commissioner

Commissioner

Commissioner
City Manager



1801 SOUTH SECOND ST.
SUITE 330
McALLEN, TX 78503
956.994.1900



ARCHITECTURAL **ABBREVIATIONS** CENTERLINE **ACOUSTICAL** ACOUSTICAL CEILING TILE ACOUSTICAL CEILING PANEL AMERICANS WITH DISABILITIES ACT ARCHITECTURALLY EXPOSED STRUCTURAL STEEL ABOVE FINISH FLOOR ALTERNAT(-E,-IVE)AMERICAN NATIONAL STANDARD INSTITUTE APPROXIMAT(-E,-LY) ARCHITECT (-URAL) AMERICAN SOCIETY FOR TESTING AND MATERIALS AVERAGE BUILDING BENCH MARK BOLLARD BELOW FINISH FLOOR CEILING HEIGHT CONCRETE MASONRY UNIT COUNTER COLUMN COLUMNS CONCRETE COORDINATE CARPET CONTROL JOINT CERAMIC TILE DEMOLISH OR DEMOLITION DETAIL(-S) DRINKING FOUNTAIN DIAMETER DIMENSION(-S) DOCK LEVÈLER DOUBLE HEAD LIGHT POLE DOWN SPOUT DRAWING(-S) **EXISTING** EMERGENCY EYE-WASH EMERGENCY EYE-WASH AND SHOWER EACH FACE OR EXHAUST FAN EXTERIOR INSULATION AND FINISH SYSTEM **EXPANSION JOINT** ELEVATION ELECTRIC(-AL) EMERGENCY EDGE OF DOCK EQUAL(-LY) EQUIPMENT EXTERIOR EACH WAY ELECTRICAL POWER & METER CAN FIRE ALARM FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FACTORY FINISH, FINISH FLOOR FIRE HYDRANT FLOOR FIRE-RETARDANT TREATED FOOTING **FURNITURE** GROUND LEVEL GYPSUM HOSE BIBB (HANDICAP) ACCESSIBLE HORIZONTAL HORIZ HEATING, VENTILATION & AIR CONDITIONING JUNCTION BOX JOIST JOINT LAVATORY MAXIMUM **MECHANICAL** MANUFACTURER MANHOLE METAL MINIMUM NOT APPLICABLE NATIONAL ELECTRICAL CODE NOT IN CONTRACT NOT TO SCALE KNOCK-OUT PANEL ON CENTER OPEN TO STRUCTURE PERFORAT(-E, -ED, -ES, -ATION)PROPERTY LINE, PLATE PLASTIC LAMINATE PLUMBING PLYWOOD PANEL PROJECT(-TION) POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PANEL JOINT REFER, REFERENCE REQUIRED RISER LINE (STAIRS) RESTROOM SCHEDULE SINGLE HEAD LIGHT POLE SPECIFICATIONS SQUARE SQUARE FEET SQUARE INCHES **STANDARD** STORAGE STRUCTURE STRUCT SIDEWALK SYMMETRICAL TEMPORARY TRENCH COVER VINYL COMPOSTION TILE WITHOUT TRANSFORMER

SYMBOLS **ANNOTATION** BUILDING ELEVATION REFERENCE BUILDING SECTION REFERENCE SECTION REFERENCE DETAIL REFERENCE NORTH NORTH ARROW INTERIOR ELEVATION REFERENCE STRUCTURAL GRID ELEVATION OF ARCHITECTURAL ELEMENT ROOM/SPACE IDENTIFIER ROOM NUMBER TITLE MARK REFERENCE NUMBER

MATCH LINE SEE SHEET A-XXX REFERENCE TO SHEET WHERE WORK THIS SIDE OF MATCHLINE IS DRAWN PARTITION TYPE

WINDOW TYPE REFERENCE DOOR TYPE REFERENCE DOOR REFERENCE NUMBER

ACCESSORY KEY EQUIPMENT KEY REVISION NUMBER

ELECTRICAL

2'x4' RECESSED FLUORESCENT FIXTURE 0

2'x2' RECESSED FLOURESCENT FIXTURE 1'X4' RECESSED FLOURESCENT FIXTURE W/ EMERGENCY BALLAST

CEILING HEIGHT MARKER

2'x4' RECESSED FLOURESCENT FIXTURE

W/ EMERGENCY BALLAST

LED RECESSED WALL WASHER 2 LAMP SURFACE MOUNTED $\overline{}$ FLUORESCENT FIXTURE 2 LAMP SURFACE MOUNTED /////////

RECESSED, EXTERIOR GRADE CAN LIGHTING EMERGENCY LIGHT (BATTERY POWERED) TRANSFORMER

EMERGENCY EXIT SIGN

IRRIGATION PIPE

PLUMBING - CIVIL LIGHT POLE WITH A 36" HIGH CONCRETE BASE FIRE HYDRANTS

NOTE: NOT ALL SYMBOLS ARE USED. SEE OTHER SPECIFIC SYMBOL LEGENDS ON EACH DRAWING WHERE OCCURS.

GENERAL NOTES

THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AND A201 LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS, ARE HEREBY MADE PART OF CONTRACT DOCUMENTS TO THE SAME EXTENT AS IF BOUND

THE CONTRACTOR SHALL PROVIDE ADEQUATE CONTRACTOR'S LIABILITY AND "ALL RISK" INSURANCE TO COVER 100% OF THE COST OF THE PROJECT. PROVIDE WORKMEN'S COMPENSATION AS REQUIRED BY LAW AND PROVIDE OTHER INSURANCE REQUIRED BY GENERAL CONDITIONS, LANDLORD, LAW OR CODE.

ALL SUBCONTRACTORS MUST BE PRE-APPROVED BY -, AND THE WARREN GROUP ARCHITECTS INC. GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE, PRIOR TO

CONSTRUCTION, UNIT PRICES FOR ALL WORK SHOWN. THESE PRICES SHALL

BE VALID FOR THE DURATION OF THE PROJECT AND USED FOR ALL SUBMISSIONS REGARDING ADDITIONS OR DELETIONS TO SCOPE OF WORK UNLESS OTHERWISE STIPULATED, THE GENERAL CONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, LABOR, TAXES, WATER, TOOLS, EQUIPMENT, LIGHT, POWER, TRANSPORTATION AND OTHER FACILITIES NECESSARY FOR THE

EXECUTION AND COMPLETION OF THE WORK. THE CONTRACTOR AND HIS SUB-CONTRACTORS SHALL KEEP WORK AREA IN A CLEAN AND ORDERLY MANNER, REMOVING DEBRIS ON A ROUTINE BASIS.

CONTRACTOR REVIEW:

GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSION FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE, AS SHOWN, BEFORE SUBMITTING FINAL PRICING AND PROCEEDING WITH CONSTRUCTION. FAILURE TO REPORT A CONFLICT IN THE CONTRACT DOCUMENTS SHALL BE DEEMED EVIDENCE THAT THE CONTRACTOR HAS ELECTED TO PROCEED IN THE MORE EXPENSIVE

CONTRACTOR IS RESPONSIBLE TO PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION.

PROJECT TEAM

OWNER:

City of Pharr Contact: William "Bill" Ueckert, City Engineer 118 S. Cage Pharr, Texas 78577

The Warren Group Architects. Inc. Contact: Laura Nassri Warren, AlA. 1801 S. 2nd St. Suite 330 McAllen, Texas 78503 956.994.1900 956.994.1962 fax lwarren@twgarch.com

OWNER CONSULTANTS:

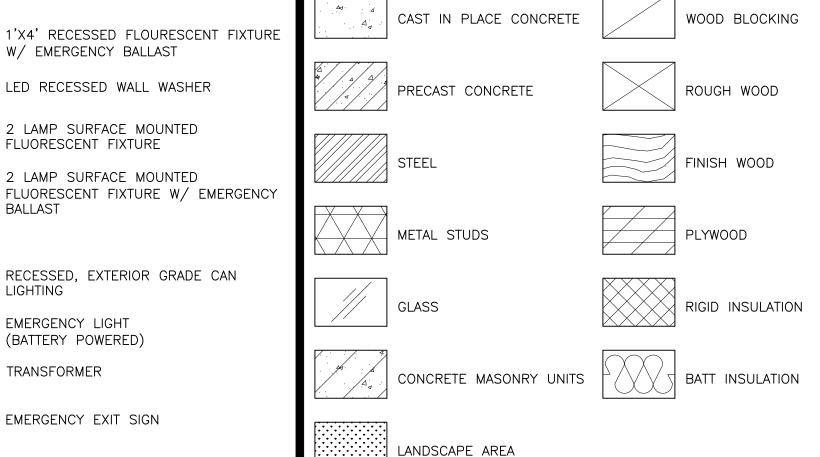
MEP ENGINEER: MEP Solutions, Inc. Contacts: Luis Javier Pena, PE Abram L. Dominguez, PE 600 E Beaumont Ave. Suite 2 McAllen, Texas 78501 956.664.2727 956.664.2726 fax jpena@mepsolutionsengineering.com adominguez@mepsolutionsengineering.com

STRUCTURAL ENGINEER: Contact: Simon Solorio, P.E. 108 W. 18th Street Mission, Texas 78572 956.631.1500 simon@solorio.com

CIVIL ENGINEER

CLH Engineering, Inc. Cloromiro Hinojosa Jr., P.E./Owner 701 S. 15th Street McAllen, Texas 78501 956.687.5560 Office 956.687.5561 Fax 956.222.5423 Cell chinojosa@clhengineeringinc.com

MATERIALS



CODE CHECK

GENERAL - PROJECT IDENTIFICATION

- LIST OF APPLICABLE CODES (TITLES & EDITIONS) -TEXAS ACCESSIBILITY STANDARDS (TAS), 2012 EDITION. -INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION. -INTERNATIONAL ENERGY CONSERVATION CODE(IECC), 2015 EDITION.
- -INTERNATIONAL FIRE CODE (IFC), 2012 EDITION. NFPA 2013 SPRINKLER.
- LIST OF APPLICABLE ORDINANCES AND JURISDICTIONS CITY OF PHARR CODE OF ORDINANCES, CURRENT EDITION.

PROJECT DESCRIPTION

THIS BUILDING HAS BEEN DESIGNED TO COMPLY WITH THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE, THE 2012 TEXAS ACCESSIBILITY STANDARDS AND THE PHARR CITY ORDINANCES.

SITE AREA: +/- 2.54 ACRES (110,595 S.F.) 4,600 S.F. EXISTING BUILDING AREA: GROSS BUILDING AREA EXPANSION: 2,740 S.F.

PARKING: (AS PER ESTIMATED AREAS ABOVE): CITY ORDINANCE REQUIRED

GENERAL OFFICE

REQUIRED: 27 SPACES PROVIDED: 55 SPACES

ACCESSIBLE PARKING REQUIRED: 2 SPACES

2 SPACES

<u>BUILDING OCCUPANCY (AS PER IBC 2012 EDITION):</u> BUSINESS

TYPE OF CONSTRUCTION:

ACCESSIBLE PARKING PROVIDED:

TYPE IIB UNPROTECTED, NON-SPRINKLERED

ALLOWABLE AREA: IBC 2012 EDITION

+/-23,000 S.F. CHAPTER 5 TABLE 506

3 STORY ALLOWABLE BUILDING HEIGHT: 1 STORY ACTUAL BUILDING HEIGHT:

LANDSCAPE REQUIREMENTS:

REQUIRED AREA: 16,589.25 S.F. (15 % OF SITE) 43,247.63 S.F. (39 % OF SITE) LANDSCAPE AREA PROVIDED:

1. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE CITY OF PHARR FIRE DEPARTMENT BEFORE THE BUILDING IS OCCUPIED. 2.EXIT DOORS TO BE OPERABLE FROM INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

ALTERNATES

GENERAL CONTRACTOR REFER TO SPECIFICATIONS SECTION 00 43 23 ALTERNATES FORM.

VICINITY MAP



LOT 3, GSA SUBDIVISION PHARR, TEXAS 78507



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ALL CONSTRUCTION SHALL COMPLY WITH AMERICAN'S WITH DISABILITIES ACT, PUBLIC LAW 101-336 AND TAS COMPLIANT.

GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE, AS SHOWN, BEFORE SUBMITTING FINAL PRICING FOR THE WORK IN QUESTION OR RELATED WORK.

INDEX OF DRAWINGS

ARCHITECTURAL DRAWINGS

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FLOOR PATTERN AND ACCENT WALL PLAN A1.41 A2.11 EXTERIOR ELEVATIONS

A3.01 **BUILDING SECTIONS** A3.11 WALL SECTIONS A3.12 WALL SECTIONS A4.11 ENLARGED RESTROOM PLAN AND SCHEDULE A5.11 DOOR AND WINDOW DETAILS

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M.E.P. DRAWINGS

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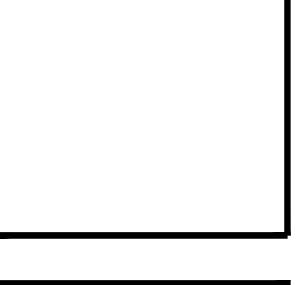
ELECTRICAL SITE PLAN ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN

ELECTRICAL LEGEND, RISER DIAGRAM AND SCHEDULES E3.00 ELECTRICAL PANEL SCHEDULE E4.00 ELECTRICAL DETAILS

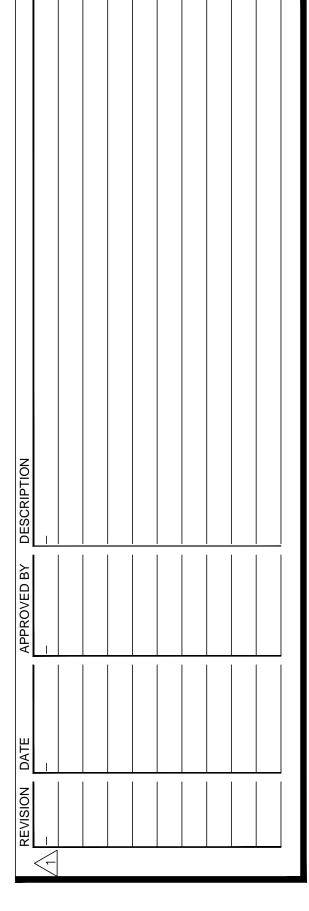
P1.01 PLUMBING SEWER FLOOR PLAN P1.02 PLUMBING HW/CW FLOOR PLAN P1.03 PLUMBING ROOF PLAN PLUMBING SCHEDULES

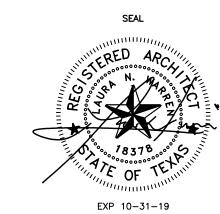
ARCHITECTS, INC.

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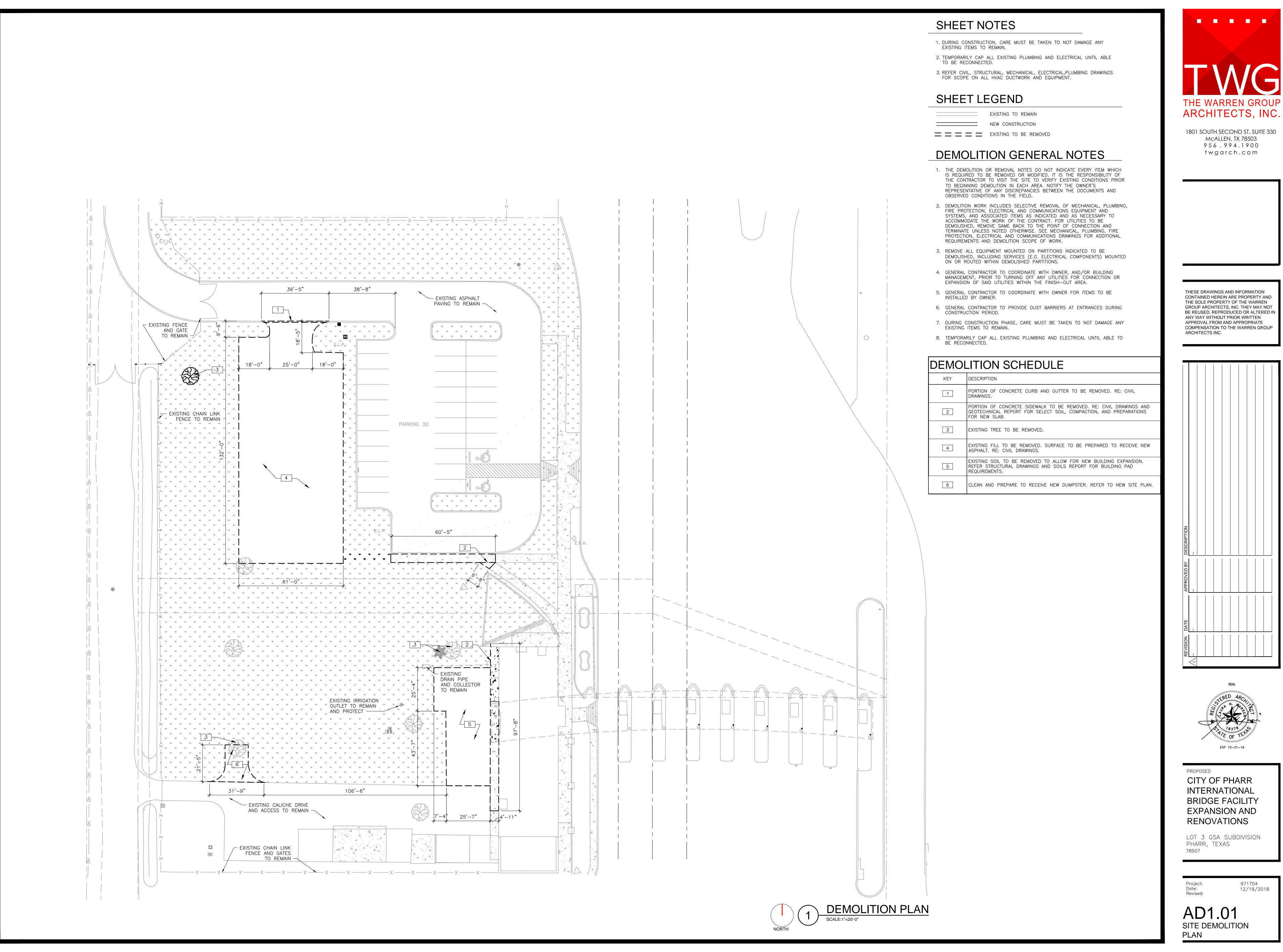


PROPOSED CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

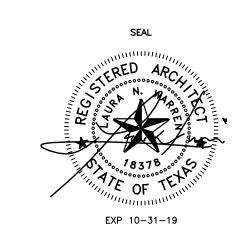
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G0.01 GENERAL NOTES, ABBREVIATIONS & SYMBOLS





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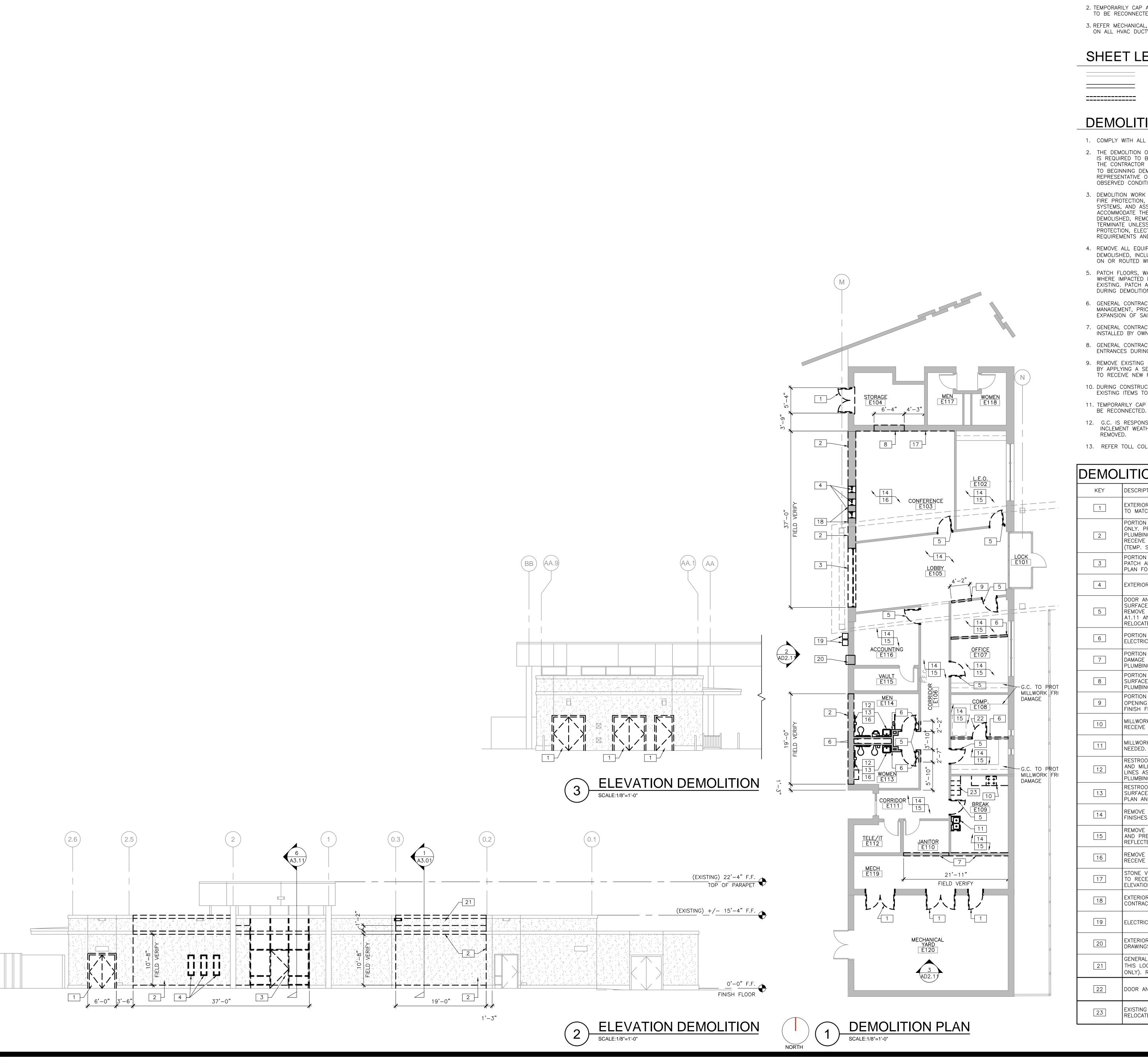


CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

12/19/2018

AD1.01 SITE DEMOLITION PLAN



SHEET NOTES

- 1. DURING CONSTRUCTION, CARE MUST BE TAKEN TO NOT DAMAGE ANY EXISTING ITEMS TO REMAIN.
- 2. TEMPORARILY CAP ALL EXISTING PLUMBING AND ELECTRICAL UNTIL ABLE TO BE RECONNECTED.
- 3. REFER MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR SCOPE ON ALL HVAC DUCTWORK AND EQUIPMENT.

SHEET LEGEND

EXISTING TO REMAIN NEW CONSTRUCTION

EXISTING TO BE REMOVED

DEMOLITION NOTES

- 1. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.
- 2. THE DEMOLITION OR REMOVAL NOTES DO NOT INDICATE EVERY ITEM WHICH IS REQUIRED TO BE REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION IN EACH AREA. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND OBSERVED CONDITIONS IN THE FIELD.
- 3. DEMOLITION WORK INCLUDES SELECTIVE REMOVAL OF MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND COMMUNICATIONS EQUIPMENT AND SYSTEMS, AND ASSOCIATED ITEMS AS INDICATED AND AS NECESSARY TO ACCOMMODATE THE WORK OF THE CONTRACT. FOR UTILITIES TO BE DEMOLISHED, REMOVE SAME BACK TO THE POINT OF CONNECTION AND TERMINATE UNLESS NOTED OTHERWISE. SEE MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL AND COMMUNICATIONS DRAWINGS FOR ADDITIONAL REQUIREMENTS AND DEMOLITION SCOPE OF WORK.
- 4. REMOVE ALL EQUIPMENT MOUNTED ON PARTITIONS INDICATED TO BE DEMOLISHED, INCLUDING SERVICES (E.G. ELECTRICAL COMPONENTS) MOUNTED ON OR ROUTED WITHIN DEMOLISHED PARTITIONS.
- 5. PATCH FLOORS, WALLS, COLUMNS, COLUMN ENCLOSURES, AND CEILINGS WHERE IMPACTED BY DEMOLITION, WITH FINISHES TO MATCH ADJACENT EXISTING. PATCH AND REPAIR EXISTING ELEMENTS THAT ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION. MAINTAIN FIRE RATINGS.
- 6. GENERAL CONTRACTOR TO COORDINATE WITH OWNER, AND/OR BUILDING MANAGEMENT, PRIOR TO TURNING OFF ANY UTILITIES FOR CONNECTION OR EXPANSION OF SAID UTILITIES WITHIN THE FINISH-OUT AREA.
- 7. GENERAL CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE INSTALLED BY OWNER.
- 8. GENERAL CONTRACTOR TO PROVIDE DUST BARRIERS AT FINISH-OUT ENTRANCES DURING CONSTRUCTION PERIOD.
- 9. REMOVE EXISTING FLOORING, PREPARE AND EVEN OUT FLOOR SURFACE AREA BY APPLYING A SELF LEVELING COMPOUND AS NEEDED. PREPARE SURFACE TO RECEIVE NEW FLOORING.
- 10. DURING CONSTRUCTION PHASE, CARE MUST BE TAKEN TO NOT DAMAGE ANY EXISTING ITEMS TO REMAIN.
- 11. TEMPORARILY CAP ALL EXISTING PLUMBING AND ELECTRICAL UNTIL ABLE TO
- 12. G.C. IS RESPONSIBLE FOR PROVIDING AND INSTALLING PROTECTION AGAINST INCLEMENT WEATHER FOR AREAS WHERE EXTERIOR ITEMS ARE TO BE
- 13. REFER TOLL COLLECTION ELEVATIONS FOR ADDITIONAL DEMOLITION SLOPE.

DEMOLITION SCHEDULE

- EXTERIOR DOOR & FRAME TO BE REMOVED. PATCH AND REPAIR WALL OPENINGS TO MATCH AND FLUSH ADJACENT WALL SURFACES.
- PORTION OF EXTERIOR WALL TO BE REMOVED UP TO EXISTING BOND BEAM ONLY. PROVIDE SHORING AS NEEDED. REFER STRUCTURAL DRAWINGS. CAP ALL PLUMBING AND ELECTRICAL LINES AS NEEDED PATCH AND REPAIR OPENING T RECEIVE NEW FINISHES. REFER TO NEW FLOOR PLAN FOR BUILDING EXPANSION. (TEMP. SHORING)

PORTION OF EXTERIOR WALL AND CURTAIN WALL ASSEMBLY TO BE REMOVED.

- PATCH AND REPAIR OPENING TO RECEIVE NEW FINISHES. REFER TO NEW FLOOR PLAN FOR BUILDING EXPANSION. G.C. TO RETURN CURTAIN WALL TO OWNER.
- EXTERIOR WINDOW TO BE REMOVED. G.C. TO RETURN WINDOWS TO OWNER.
- DOOR AND FRAME TO BE REMOVED. G.C. TO PATCH AND REPAIR ADJACENT SURFACES AND PREPARE TO RECEIVE NEW DOORS AND FRAMES. G.C. TO REMOVE EXISTING HEADER TO ACCOMMODATE NEW DOORS AS REQUIRED. RE: A1.11 AND A6.21 FOR NEW DOOR SIZES AND EXISTING DOORS TO BE
- PORTION OF INTERIOR WALL TO BE REMOVED. G.C. TO REMOVE AND CAP ALL ELECTRICAL AND PLUMBING LINES AS NEEDED.
- PORTION OF INTERIOR MASONRY WALL TO BE REMOVED. PATCH AND REPAIR DAMAGE SURFACES TO RECEIVE A NEW OPENING. CAP ALL ELECTRICAL AND PLUMBING LINES AS NEEDED.
- PORTION OF INTERIOR WALL TO BE REMOVED. G.C. PATCH AND REPAIR DAMAGED SURFACES TO RECEIVE A NEW DOOR OPENING. CAP ALL ELECTRICAL AND LUMBING LINES AS NEEDED.
- PORTION OF INTERIOR WALL TO BE REMOVED. PATCH AND REPAIR ROUGH OPENING TO RECEIVE A NEW WINDOW OF 4'2(W) X 5'-0" (H) X 2'-6" FROM FINISH FLOOR, REFER TO NEW FLOOR PLAN.
- MILLWORK AND RANGE TO BE REMOVED. PREPARE WALL AND ADD BLOCKING TO RECEIVE NEW MILLWORK.
- MILLWORK AND DOUBLE SINK TO BE REMOVED. CAP ALL PLUMBING LINES AS NEEDED. REFER NEW FLOOR PLAN FOR NEW FINISHES.
 - RESTROOM PARTITIONS, WATER CLOSETS, URINALS, LAVATORIES, ACCESSORIES, AND MILLWORK TO BE REMOVED. CAP ALL PLUMBING LINES AND ELECTRICAL LINES AS NEEDED TO RECEIVE NEW FINISHES. RE: NEW FLOOR PLAN AND
- RESTROOM WALL AND FLOOR TILE TO BE REMOVED. PATCH AND REPAIR SURFACES TO RECEIVE NEW FINISHES AND FIXTURES. REFER TO NEW FLOOR
- REMOVE EXISTING FLOOR FINISHES. PREPARE SURFACES TO RECEIVE NEW FINISHES.

LUMBING DRAWINGS.

PLAN AND PLUMBING DRAWINGS

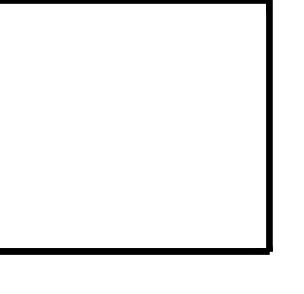
- REMOVE ALL ACOUSTICAL CEILINGS. G.C. TO PROTECT CEILING GRID TO REMAIN AND PREPARE TO RECEIVE NEW ACOUSTICAL CEILING TILES. REFER TO NEW REFLECTED CEILING PLAN
- REMOVE ALL CEILINGS. REPAIR ANY DAMAGE SURFACES AND PREPARE TO
- RECEIVE A NEW CEILING. REFER TO NEW REFLECTED CEILING PLAN.
- STONE VENEER FINISH TO BE REMOVED. PATCH AND REPAIR DAMAGE SURFACES TO RECEIVE NEW FINISHES. REFER TO NEW FLOOR PLAN AND INTERIOR
- EXTERIOR WALL MOUNTED COMMUNICATION ANTENNA TO BE RELOCATED. GENERAL CONTRACTOR TO COORDINATE WITH BRIDGE AUTHORITY FOR NEW LOCATION.
- ELECTRICAL "J" BOXES TO BE RELOCATED. REFER ELECTRICAL DRAWINGS.
- EXTERIOR WALL UNIT TO BE MOVED. REFER MECHANICAL AND ELECTRICAL

GENERAL CONTRACTOR TO REMOVE THE CMU/STONE VENEER FULL HEIGHT AT

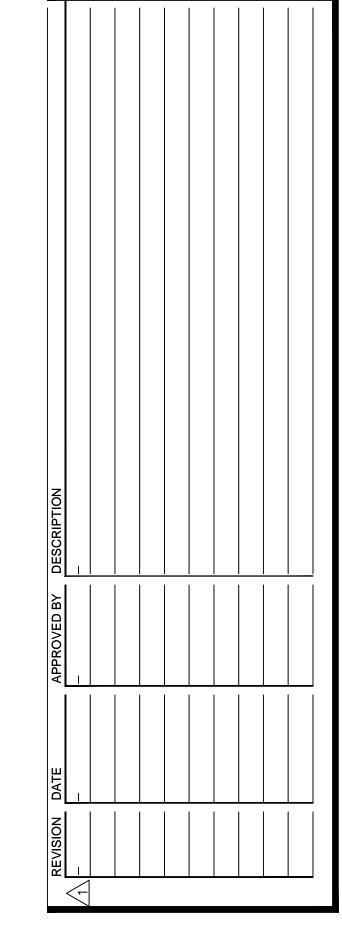
- THIS LOCATION (LOAD BEARING CMU BEHIND IS TO BE REMOVED TO BOND-BEAM ONLY). REFER WALL SECTIONS AND STRUCTURAL DRAWINGS.
- DOOR AND FRAME TO BE REMOVED G.C. TO RETURN DOOR TO OWNER.
- EXISTING LOCKERS TO BE REMOVED. G.C. TO COORDINATE WITH OWNER TO

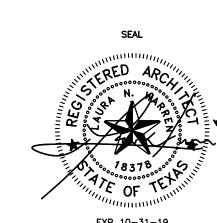


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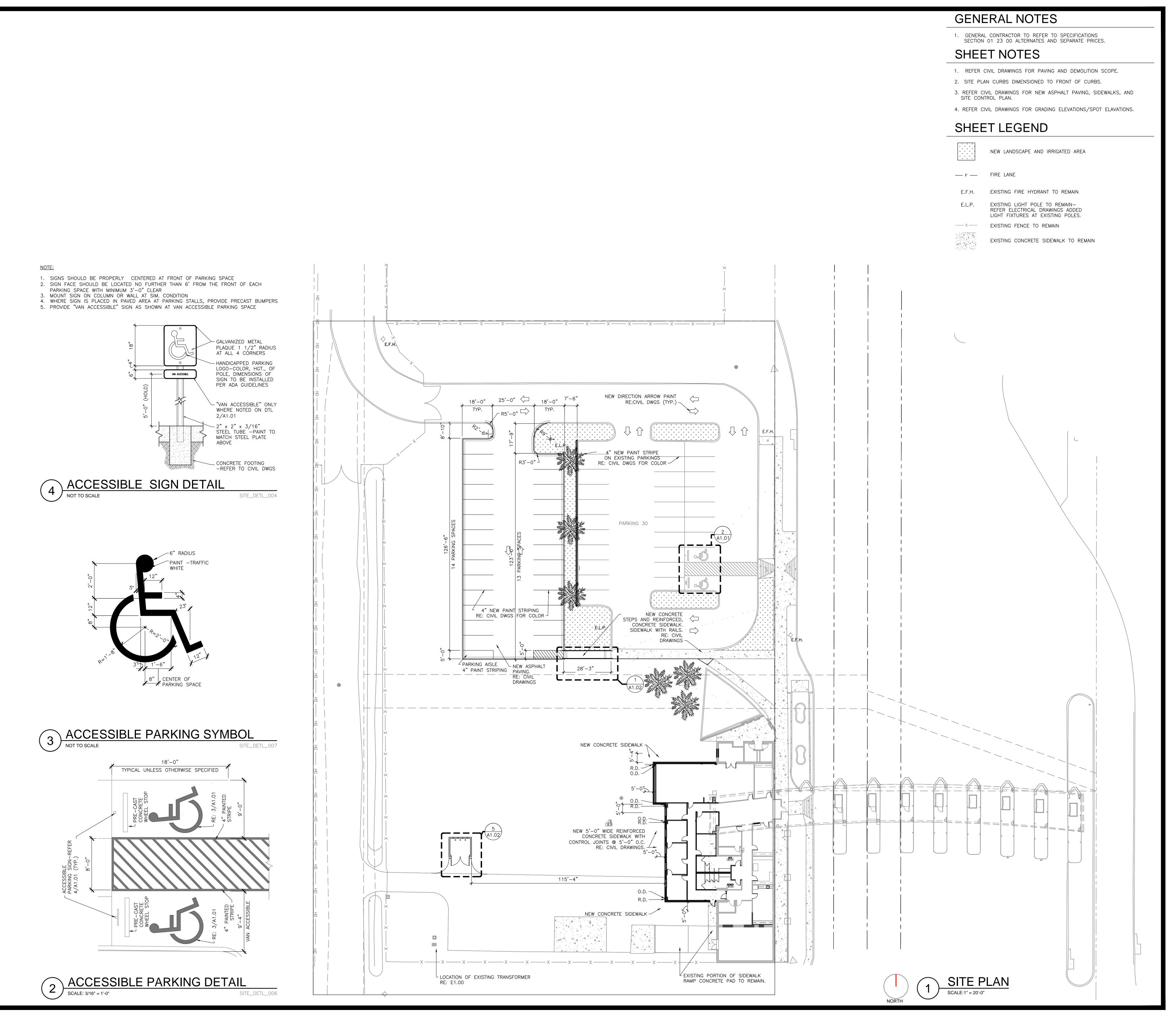


PROPOSED CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

AD2.11 **DEMOLITION PLAN AND ELEVATIONS**

12/19/2018

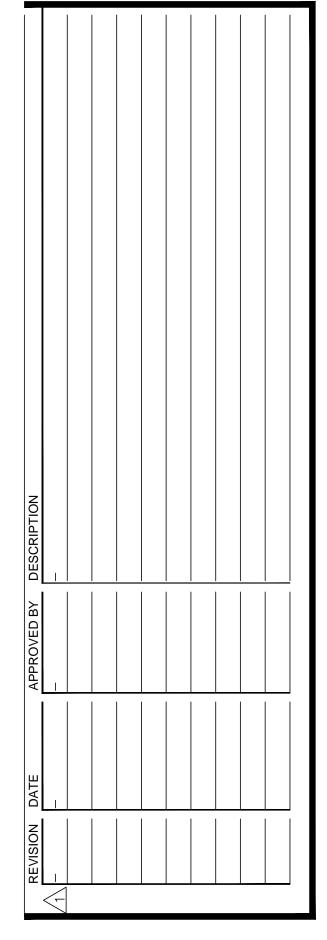


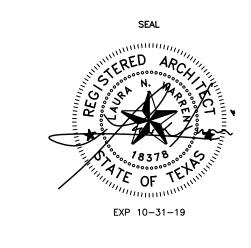


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COMPENSATION TO THE WARREN GROUP

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CITY OF PHARR
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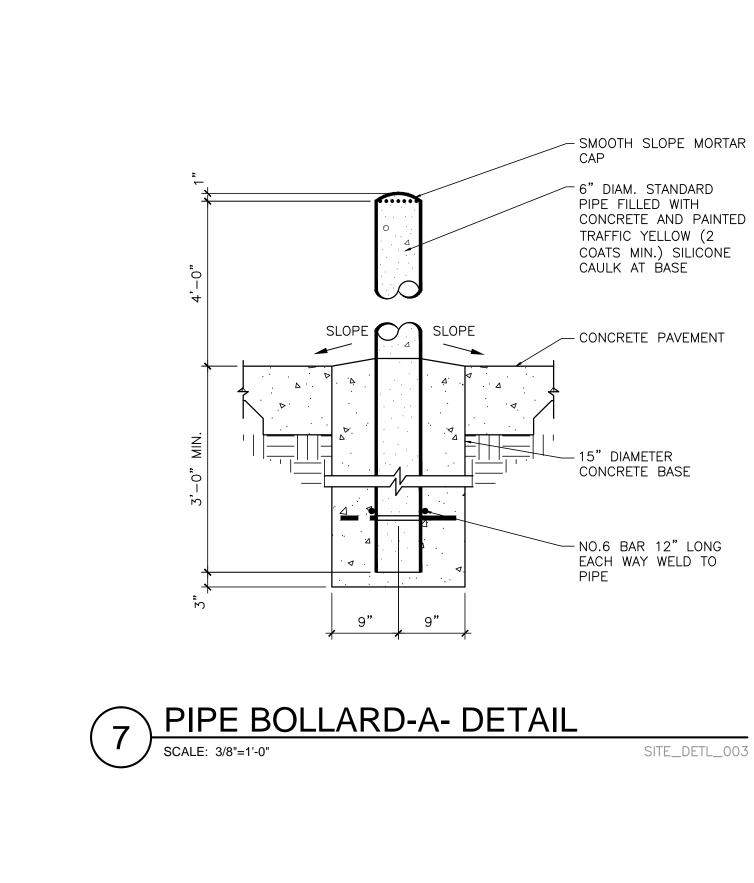
LOT 3 GSA SUBDIVISION PHARR, TEXAS

Project: Date: Revised:

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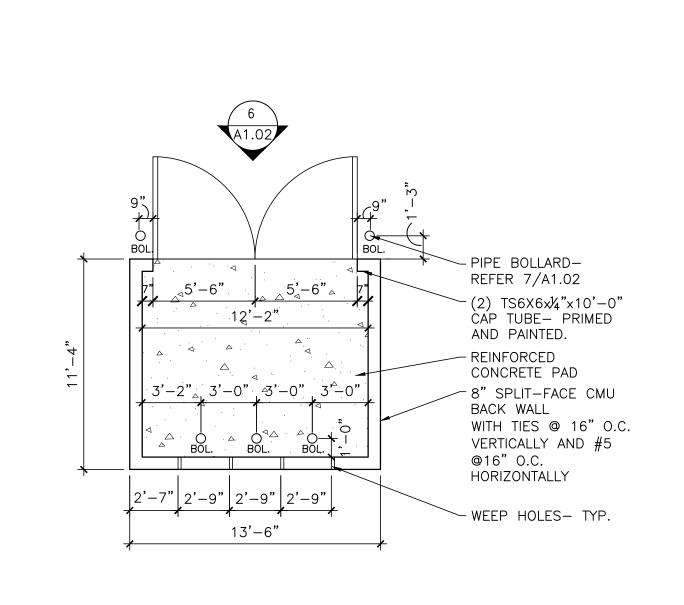
A1.01 SITE PLAN

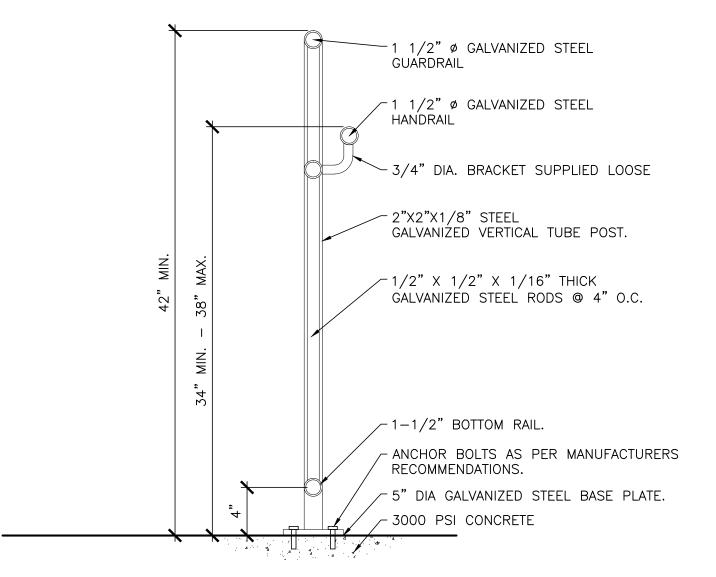


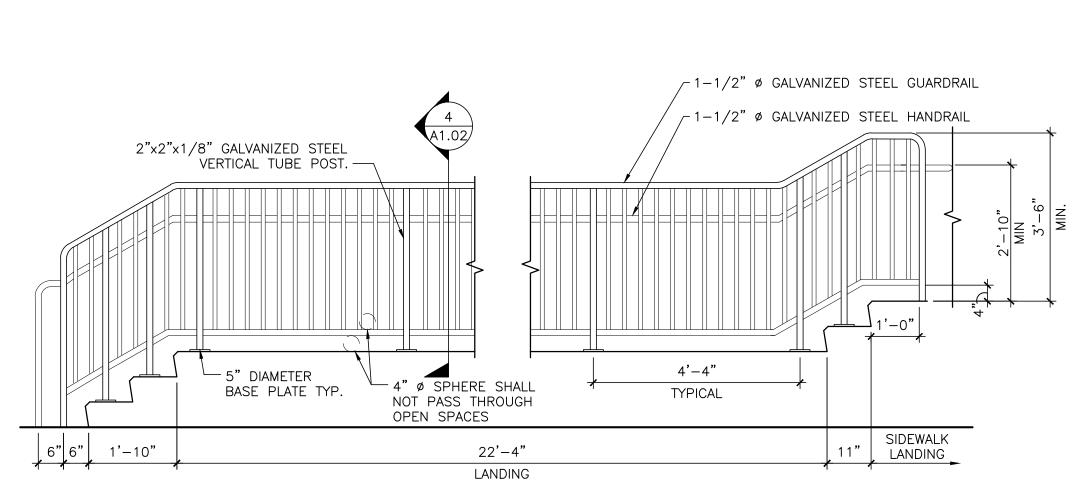
UP ---

L GUARDRAIL

- HANDRAIL









 $\sqrt{PROVIDE\ TWO(2)}\ 1/2$ "

ROUND STEEL CANE BOLTS,
ONE TO EACH LEAF. WELD
SHAFT STEEL PIPE SLEEVE
TO FRAME. EMBED STRIKE
STEEL PIPE SLEEVE INTO CONCRETE.

GATE CONSTRUCTION TO BE 1 1/2" X 20 GAUGE STEEL DECK, WELDED TO 1 1/2" X 2" STEEL ANGLE PERIMETER TRIM. WELD ANGLE PERIMETER TRIM

WELD 1/4" STEEL ANGLE TABS

(WITH HOLES FOR PADLOCK)
TO STEEL FRAME. -

TO 2" X 3" STEEL TUBULAR MAIN GATE FRAME. ALL METAL SURFACES TO RECEIVE TWO(2) COATS ENAMEL PAINT OVER PRIMER. PAINT TO MATCH BUILDING.

/ 4" x 16" PAINTED, PRECAST

ALONG PERIMETER

(2) TS6X6X1/4"X10'-0" CAP TUBE- PRIMED

∠ CLEAR SEAL OVER 8"

FINISHED CMU BLOCK

COLOR: BLOCK #2

- HEAVY DUTY HINGE

BOLT (3) PER DOOR.

CONCRETE FOOTING
-REFER TO CIVIL DWGS.

SPLIT FACED PRE-

CONCRETE CAP

AND PAINTED.

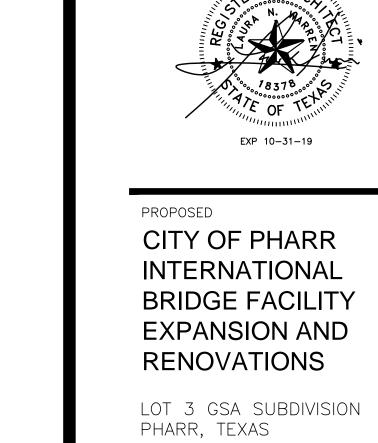






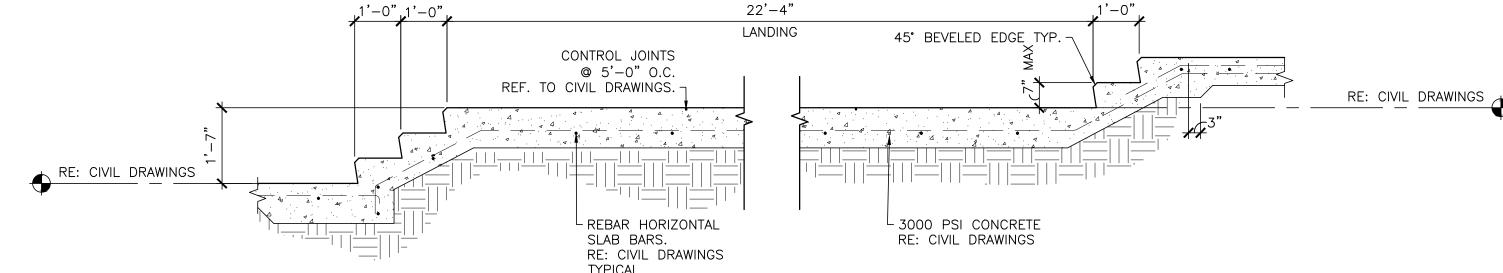
2 EQ. TREADS

SITE_DETL_008



SITE_DETL_010

SITE_DETL_013





Project: Date: Revised: 971704 12/19/2018

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THE WARREN GROUP

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THESE DRAWINGS AND INFORMATION

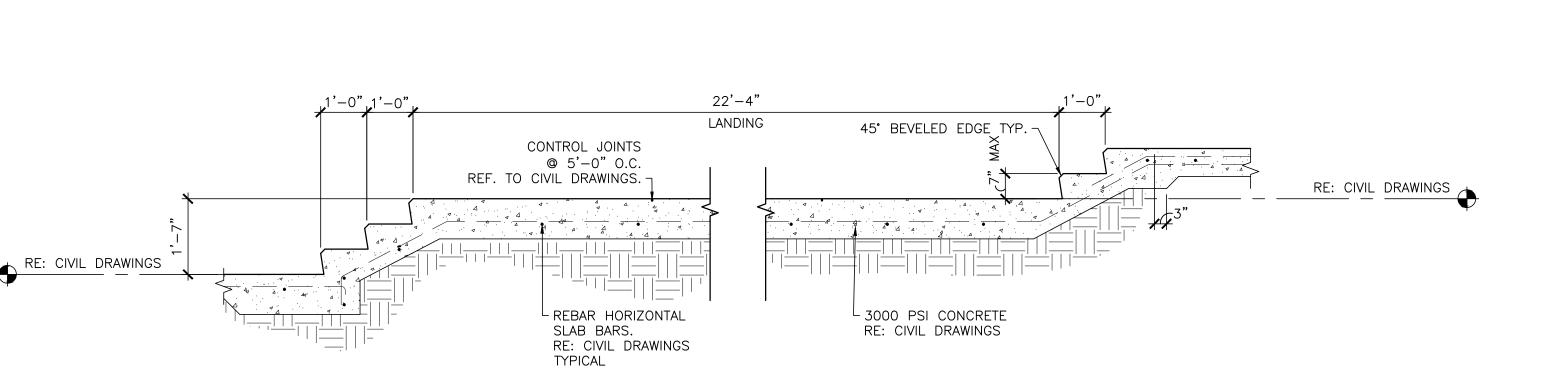
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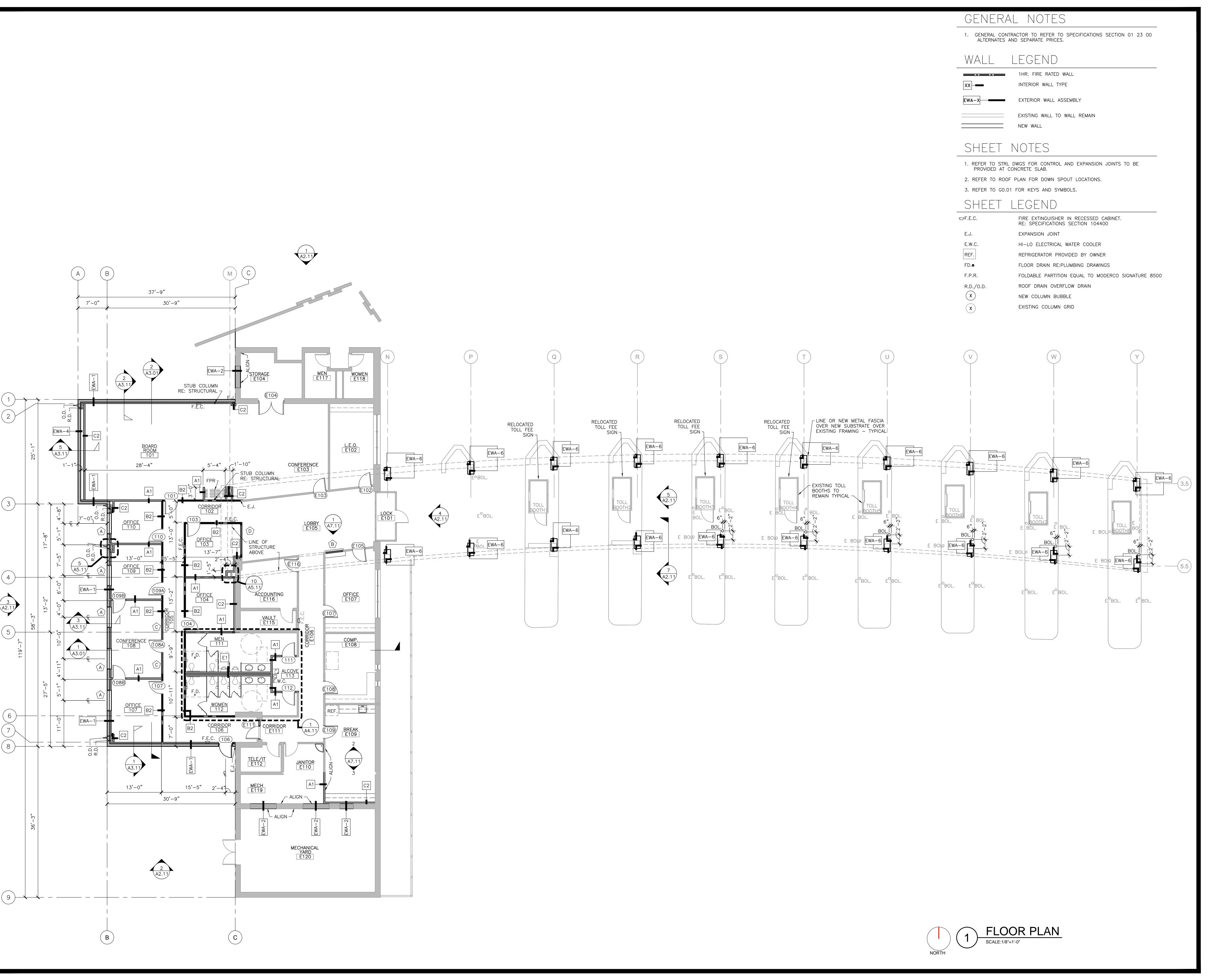
A1.02 SITE DETAILS



CONCRETE STAIR DETAIL SITE_DETL_009

22'-4" LANDING

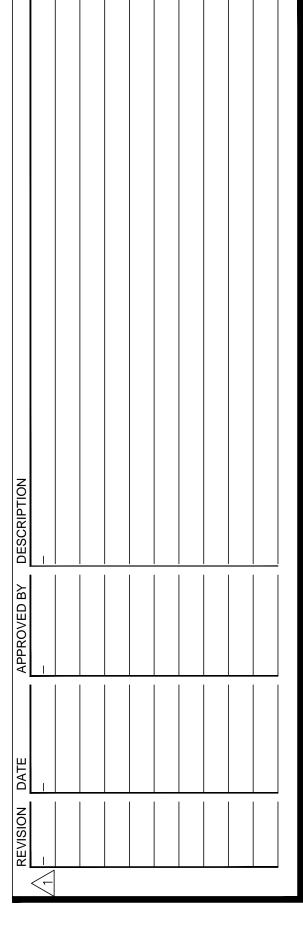
NEW 5'-0" WIDE REINFORCED CONCRETE SIDEWALK WITH CONTROL JOINTS @ 5'-0" O.C. RE: CIVIL DRAWINGS.

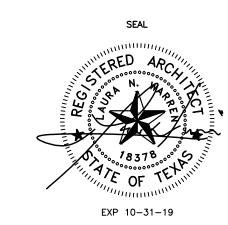






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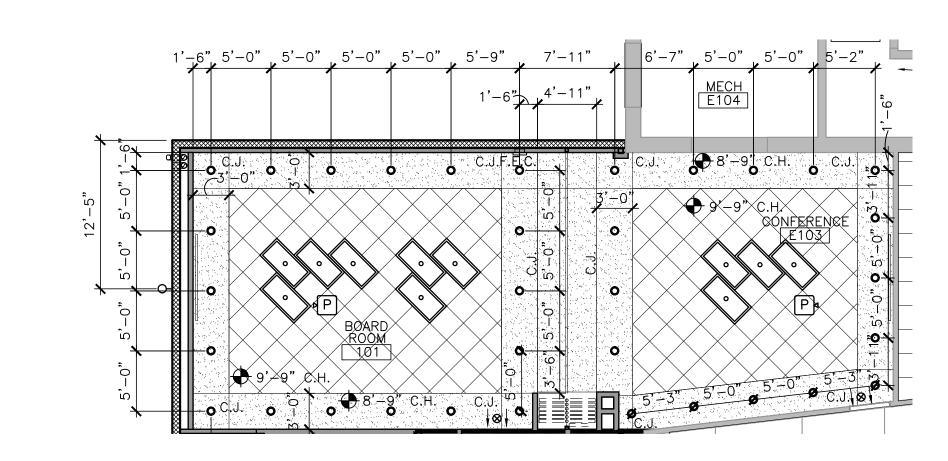


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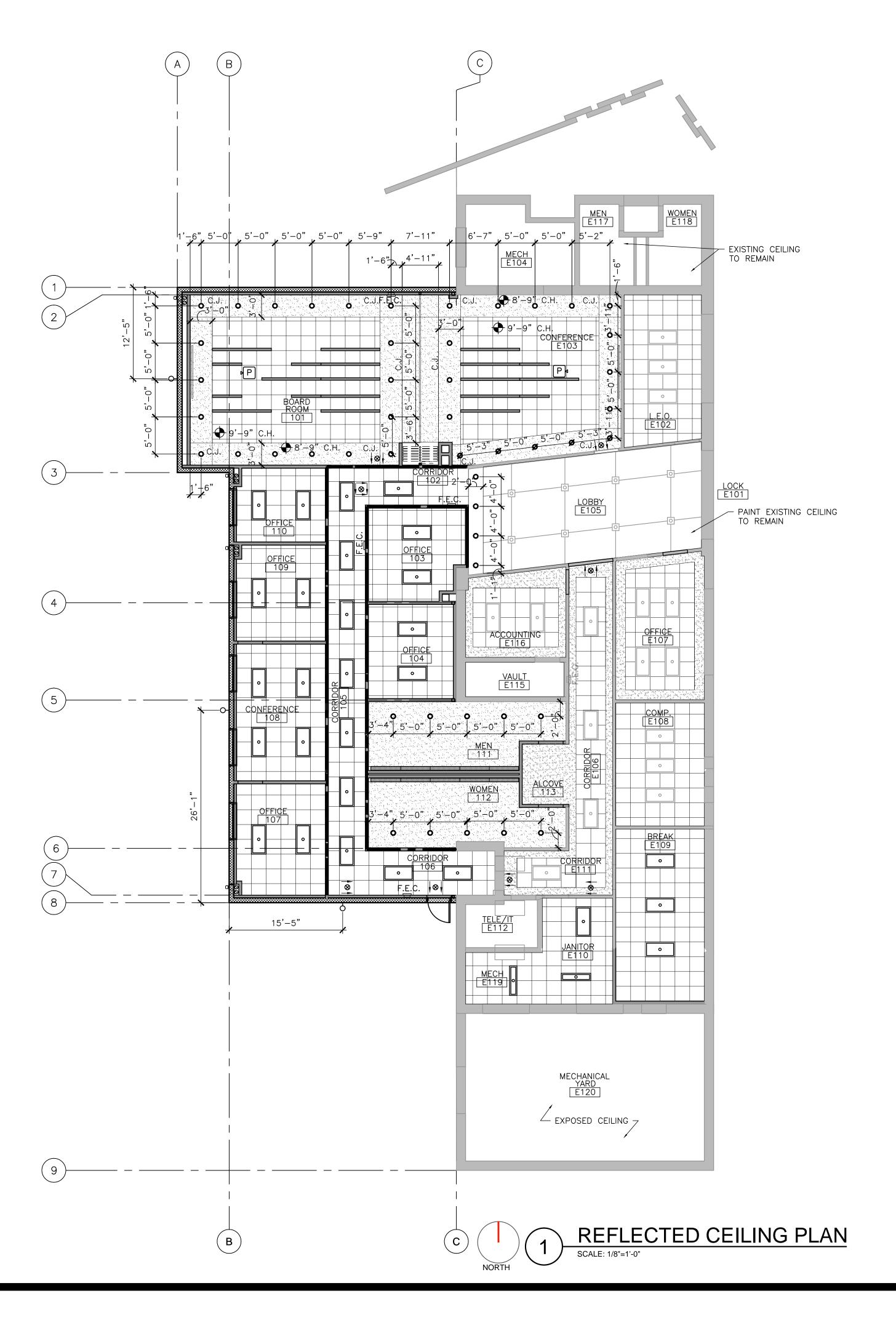
Project: Date: 971704 12/19/2018

A1.11 FLOOR PLAN



ALTERNATE NO. 2 REFLECTED CEILING PLAN AT
BOARD ROOM 101 AND CONFERENCE E103

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



SHEET NOTES

- 1. ALL CEILING HEIGHTS TO BE 8'-9" A.F.F. UNLESS OTHERWISE NOTED.
- 2. REFER TO ELECTRICAL PLANS FOR LIGHTING SCHEDULE.
- 3. ACCESS PANELS TO BE PROVIDED WHERE REQUIRED.
- 4. EXISTING CEILING ARE TO BE REPLACE WITH A NEW ACOUSTICAL CEILING TILE REFER TO FINISH SCHEDULE. G.C. TO ADD CEILING GRID AS
- 5. G.C. PAINT AN EXISTING GYPSUM BOARD AND PLASTER CEILINGS TO

SHEET LEGEND

PAINTED GYPSUM BOARD SOFFIT

2'X2' ACOUSTICAL CEILING TILE

EMERGENCY EXIT LIGHT/SIGN 2'X4' RECESSED LIGHT

4' LINEAR COVE LIGHT

6" RECESSED CAN LIGHT

1'X4' CEILING MOUNTED
FLUORESCENT LIGHT FIXTURE.

WALL PACK LIGHT

8'-0" LED LINEAR RECESSED LIGHT
WITH ACRYLIC LENS. RE: ELECTRICAL DWGS.

4'-0" LED LINEAR RECESSED LIGHT WITH ACRYLIC LENS. RE: ELECTRICAL DWGS.

C.H. CEILING HEIGHT

Projector

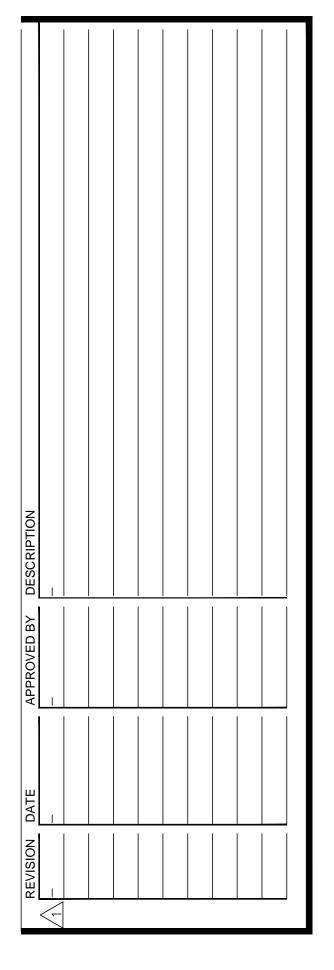
C.J. CONTROL JOINT

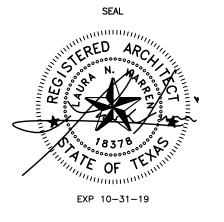


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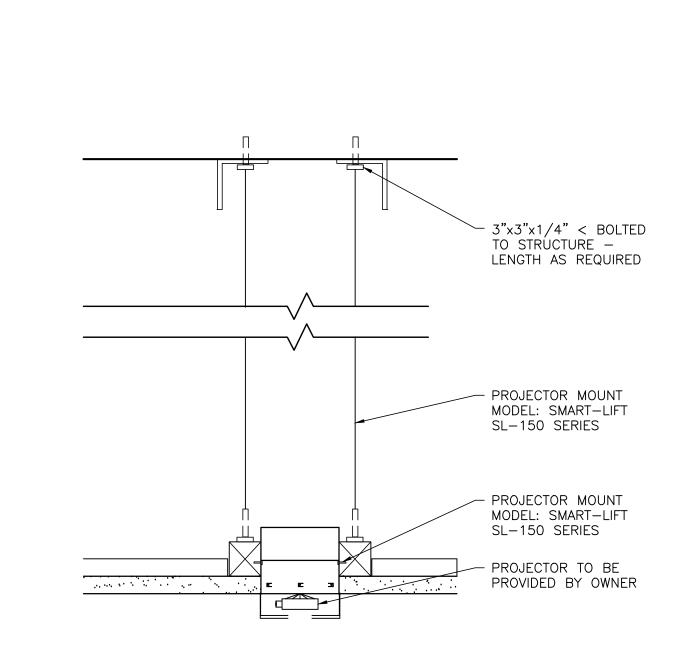
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A1.21
REFLECTED CEILING
PLAN



PROJECTOR MOUNT DETAIL SCALE: 3/8"=1'-0"

- NOTES:

 1. PROJECT SCREEN EQUAL TO
 DA-LITE BOARDROOM ELECTROL
 WITH MILDEW AND FLAME RESISTANT
 MATTE WHITE WITH BLOCK MASKING
 BORDERS
- 2. SCREEN MOTOR TO BE INSTANT REVERSING
 GEAR DRIVE MOTOR, WITH PERMANENTLY
 LUBRICATED BALL BEARINGS, AUTOMATIC THERMAL
 OVERLOAD PROTECTION, PRESENT LIMIT
 SWITCHES TO AUTOMATICALLY STOP SCREEN
 IN "UP" OR "DOWN" POSITION, AND POSITIVE
 STOP ACTION TO PREVENT COASTING.
- 3. SCREEN CONTROL TO BE: REMOTE CONTROL OPERATION; SWITCHES TO AUTOMATICALLY STOP SCREEN THREE POSITION, UL LISTED CONTROL SWITCH WITH METAL DEVICE BOX AND COVER PLATE FOR FLUSH TO 120 VAC ELEC. POWER SUPPLY
- 4. SCREEN SIZE TO BE 78"x139"

ANAL TO STRUCTURE -LENGTH AS REQUIRED 3"X3"x1/4" < WELDED TO HORIZONTAL 3"X3"/4" < WELDED TO HORIZONTAL 3"X3"X1/4" < WELDED

G.C. TO PROVIDE AND INSTALL BRASS DOWNSPOUT NOZZLE AT ALL O.D. O'-0" A.F.F. FINISH FLOOR ELEVATION

2 ROOF DRAIN DETAIL

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

ROOF_DETL_001

SHEET NOTES

- 1. REFER STRUCTURAL DRAWINGS FOR TOP OF STEEL HEIGHTS.
- 2. REFER TO PLUMBING DRAWINGS FOR ROOF & OVERFLOW DRAIN SIZING.
- 3. ROOF DETAILS REFER TO A0.00

SHEET LEGEND

R.D. ROOF DRAIN

O.D. OVERFLOW DRAIN

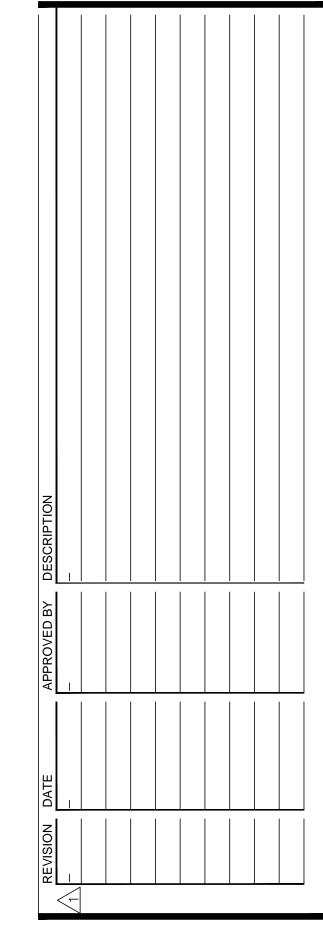
E.SC. EXISTING SCUPPER

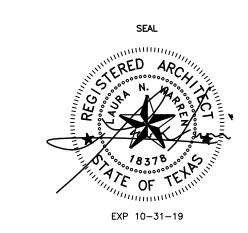
RTU ROOF TOP UNITS



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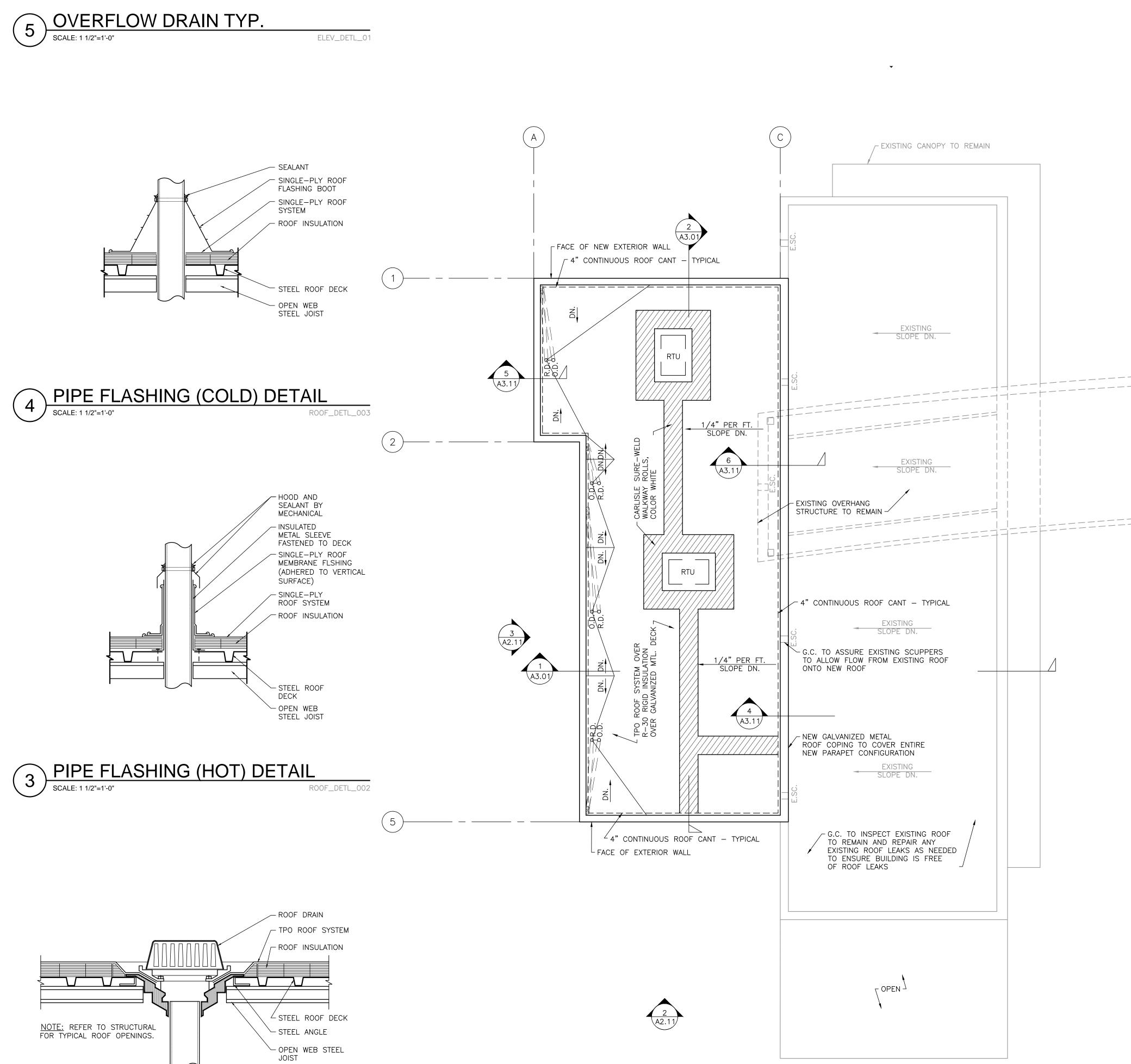
> 971704 12/19/2018

Project: Date: Revised:

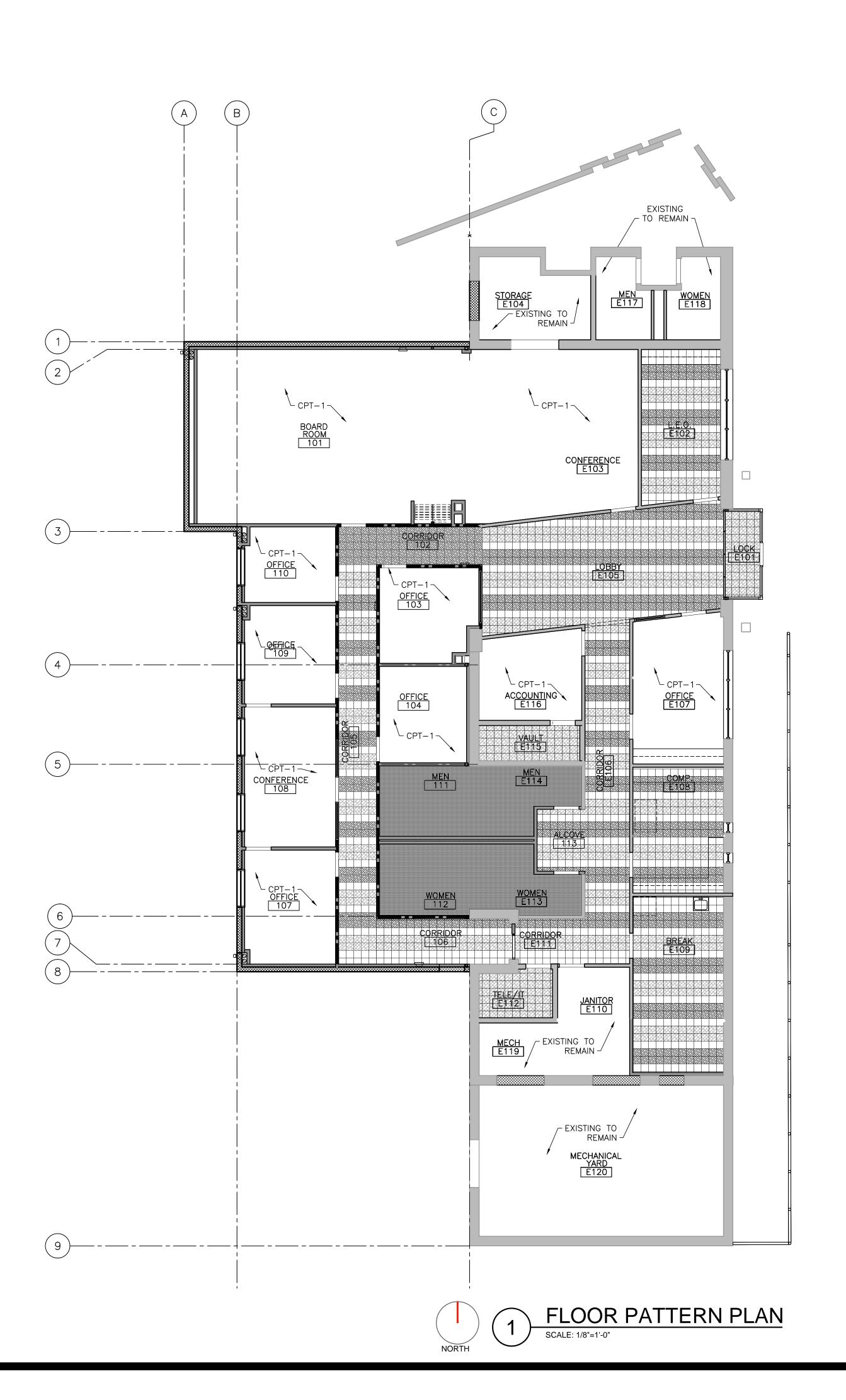
ROOF PLAN

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

A1.31 ROOF PLAN



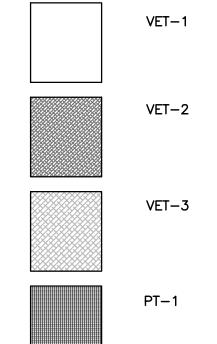
─_ PNT-2 *─* 2 ACCENT WALL PLAN SCALE: 1/8"=1'-0"



SHEET NOTES

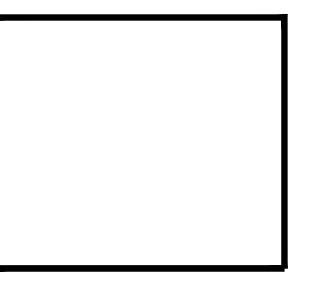
- 1. FLOOR PATTERNS SUBJECT TO OWNER APPROVAL PRIOR TO INSTALLATION.
- 2. G.C. TO COORDINATE WITH MILLWORK INSTALLER TO FILL IN FLOORING BELOW OPEN COUNTERS.
- 3. FLOOR GRID SHOWN EMULATES A 12"X12" VINYL ENHANCED TILE (VET), AND 2"X2" PORCELAIN TILE (PT) IN THE RESTROOMS. REFER SHEET A6.11 ROOM FINISH SCHEDULE FOR ALL FINISHES AND CARPET (CPT)
- 4. G.C. TO PROVIDE TAS-ADA COMPLIANT FLOOR TRANSITION STRIPS BETWEEN FLOOR FINISHES.
- 5. ROOMS WITH NO FLOOR PATTERN ARE TO BE IN THE FIELD COLOR OR IN THE DIFFERENT FLOOR MATERIALS AS NOTED.
- 6. ROOMS WITH NO ACCENT PAINT COLOR TO BE IN PNT-1. REFER SHEET A6.11 ROOM FINISH SCHEDULE FOR ALL PAINT (PNT) SELECTIONS.

SHEET LEGEND

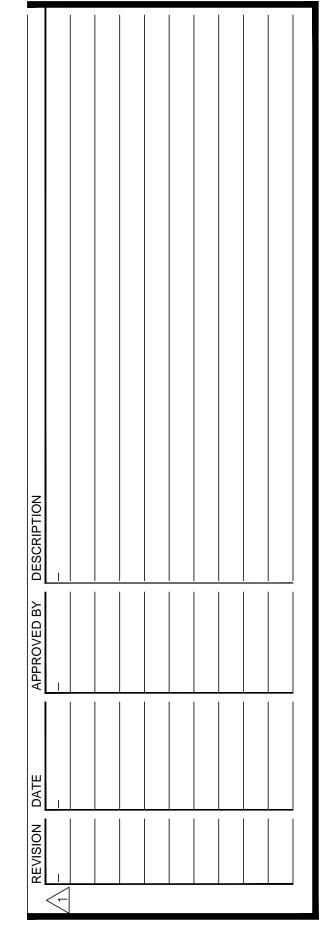


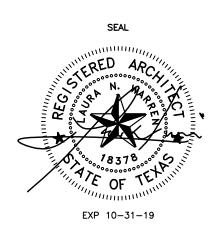


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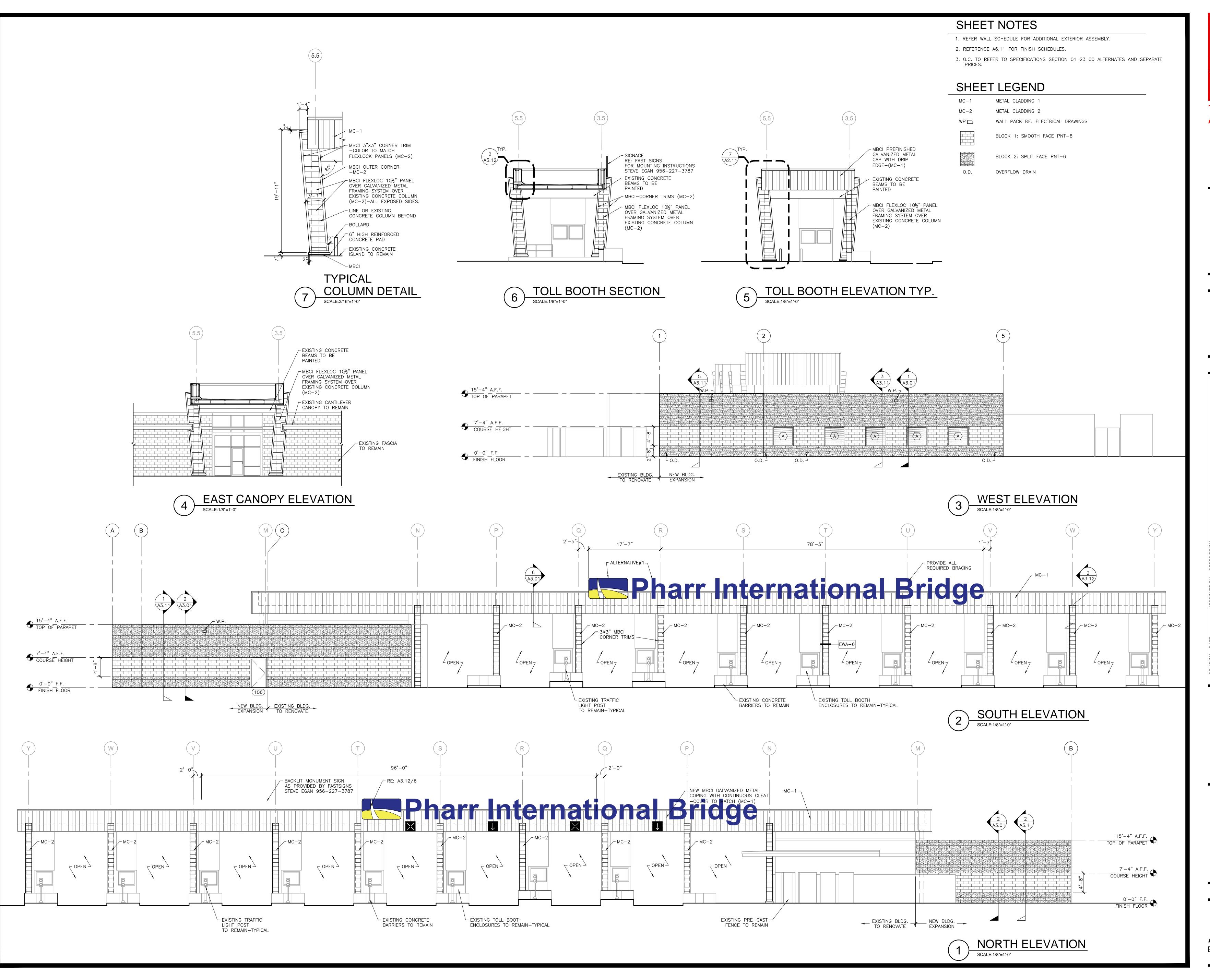


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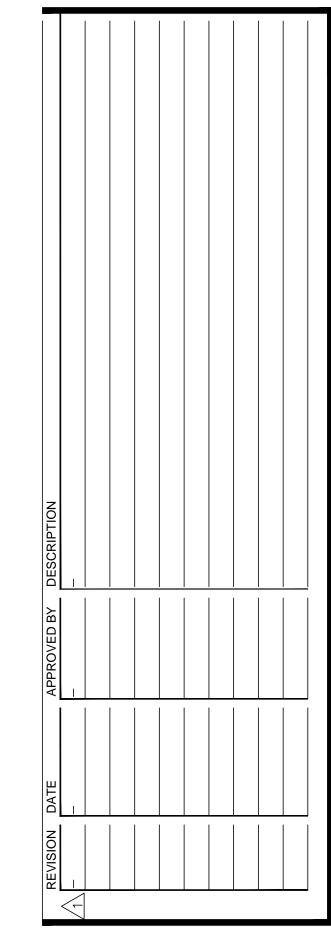
Project Date: Revised 971704 12/19/2018

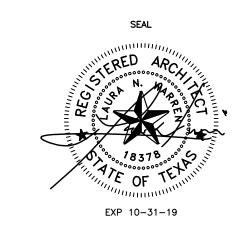
A1.41
FLOOR PATTERN AND ACCENT WALL PLAN





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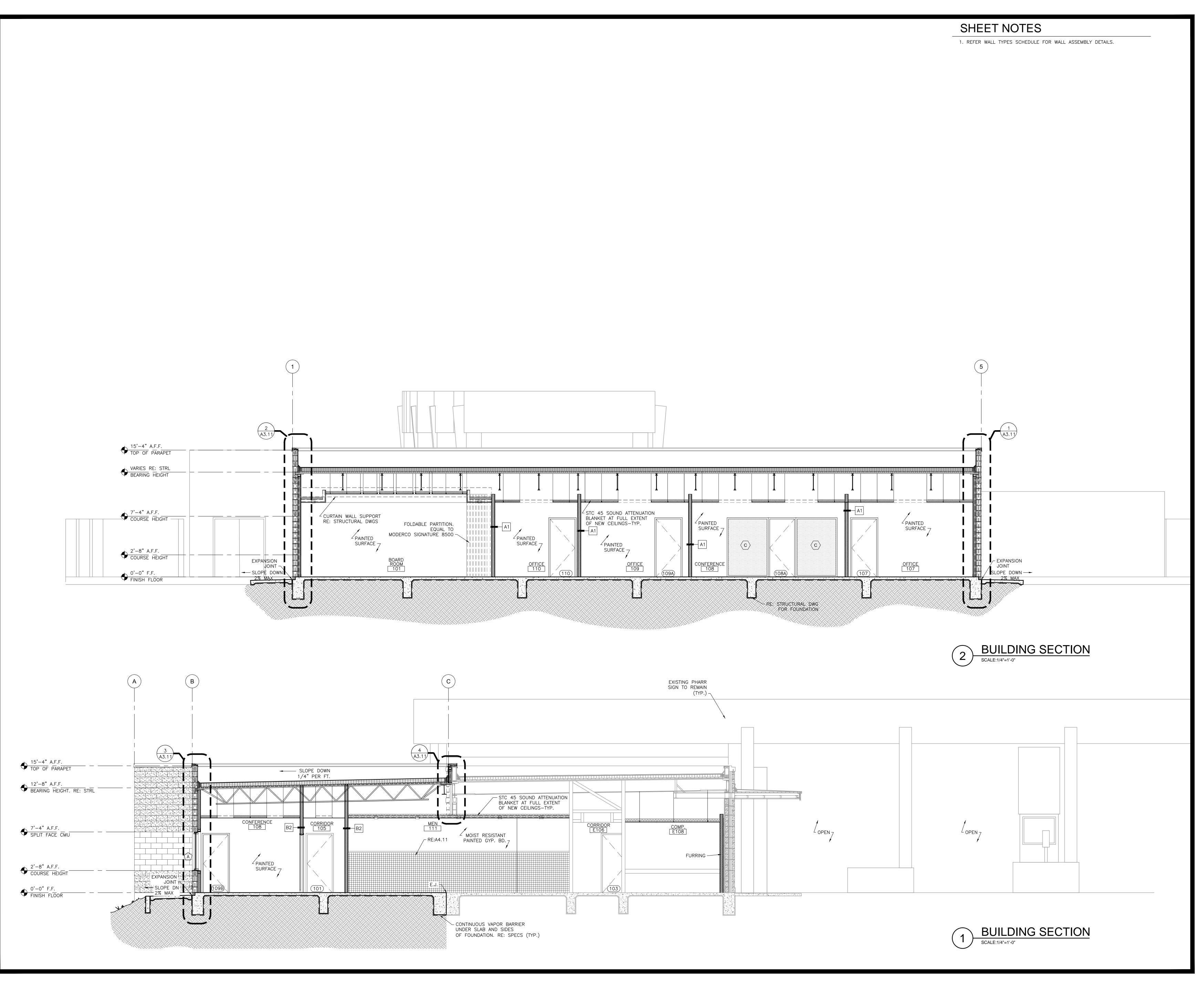
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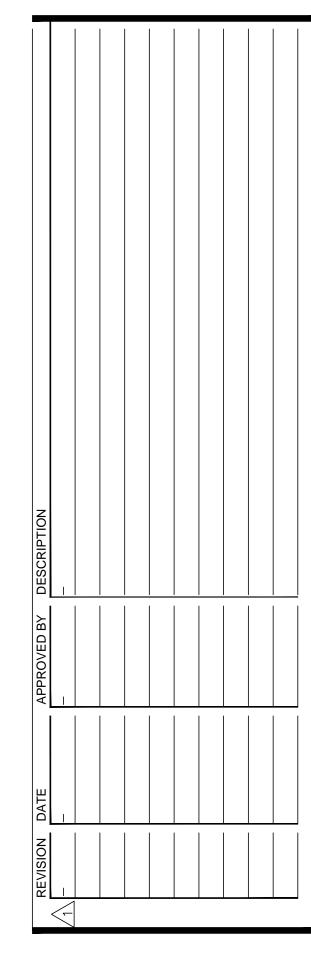
971704 12/19/2018

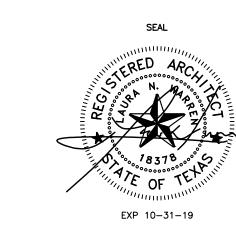
A2.11 EXTERIOR ELEVATIONS





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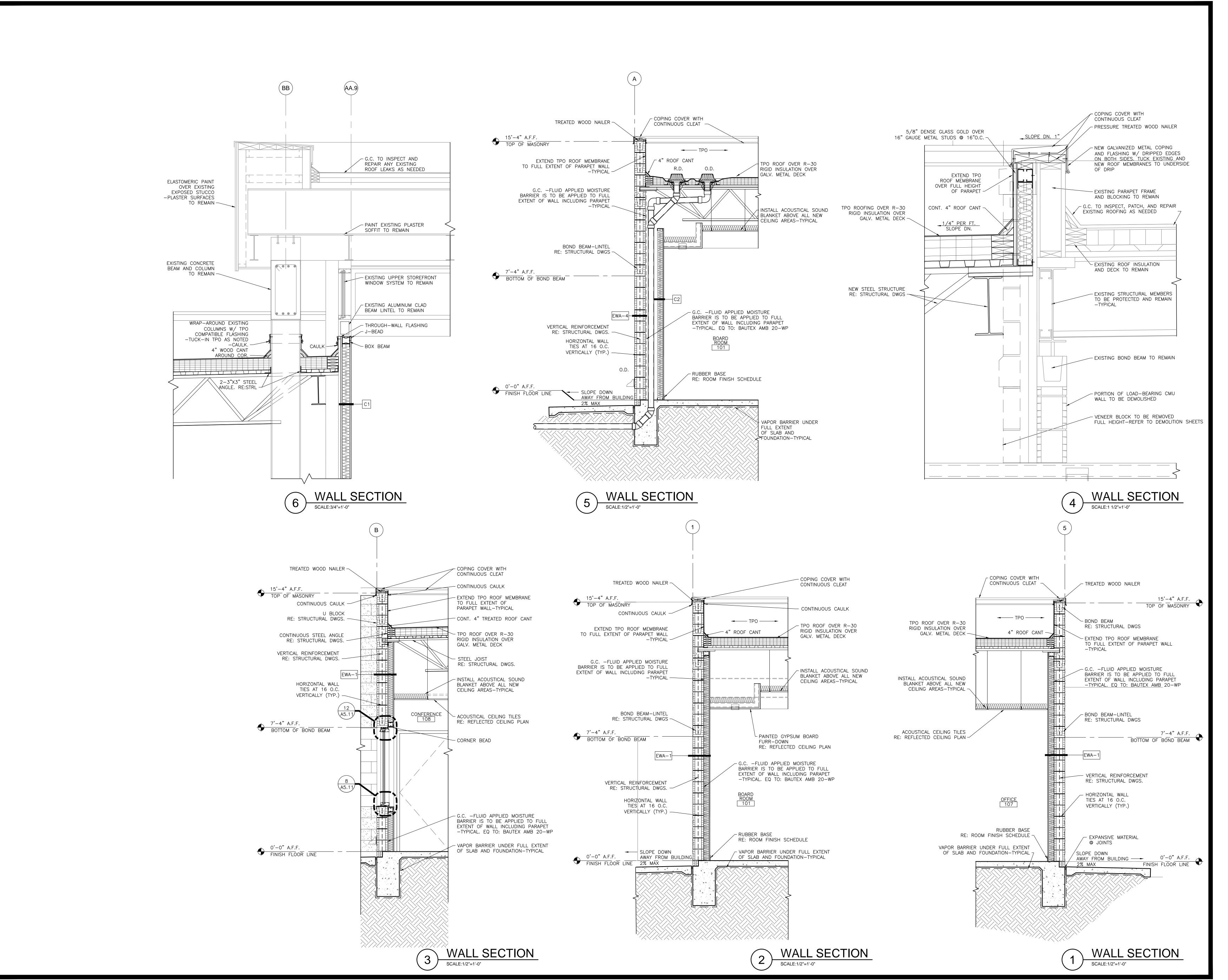


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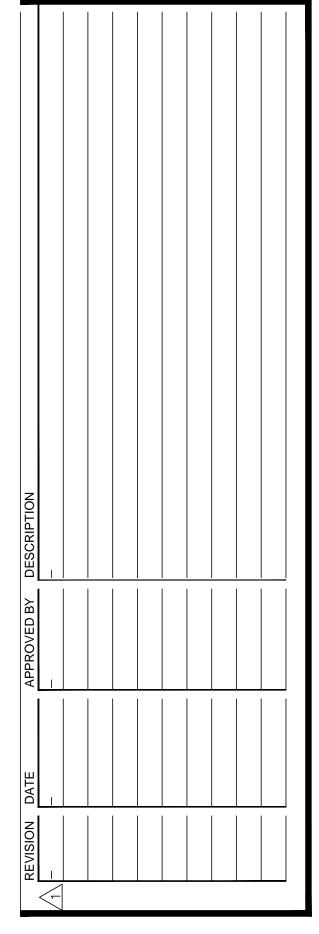
A3.01
BUILDING SECTIONS





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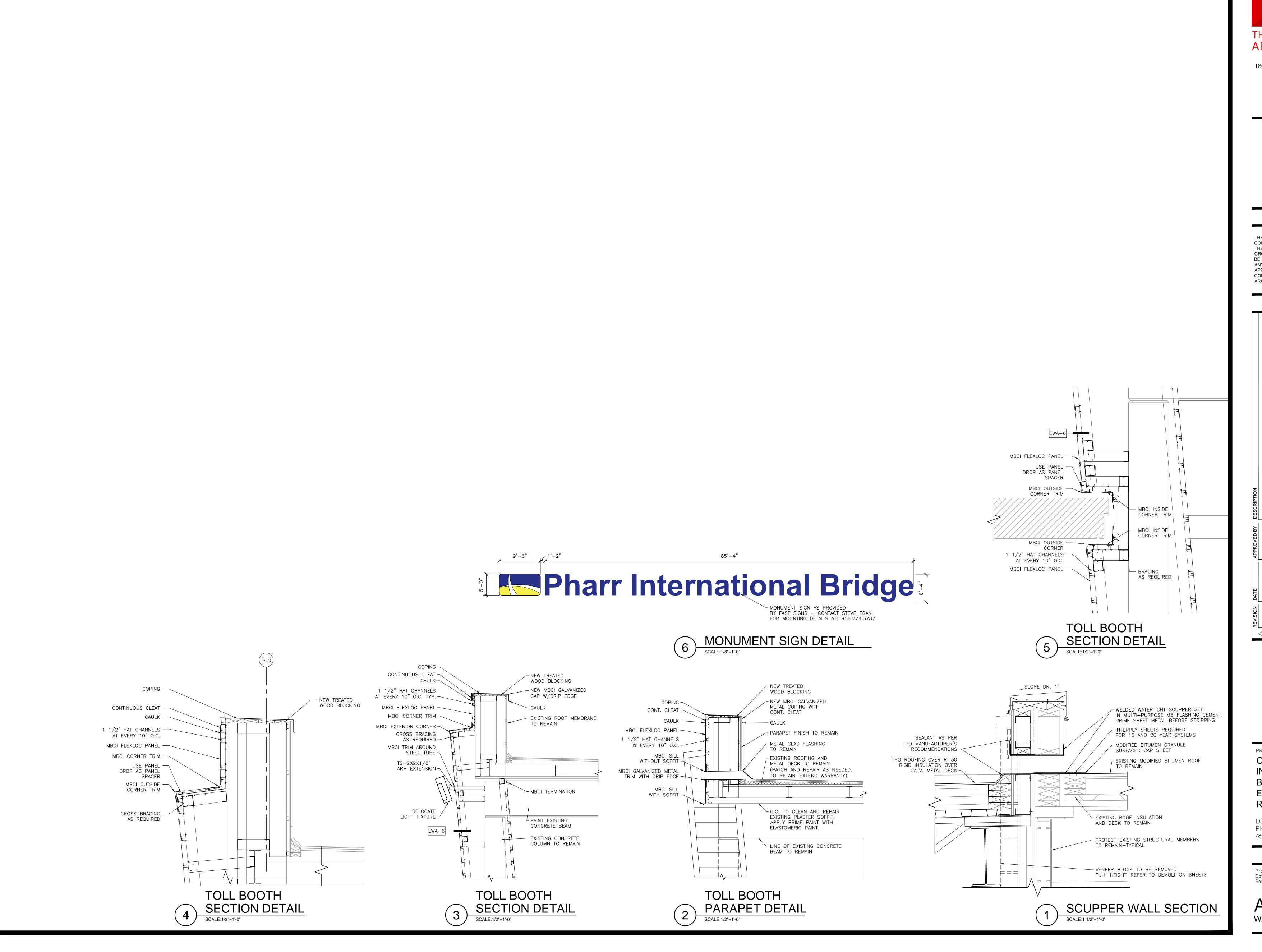
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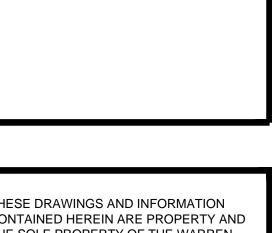
> 971704 12/19/2018

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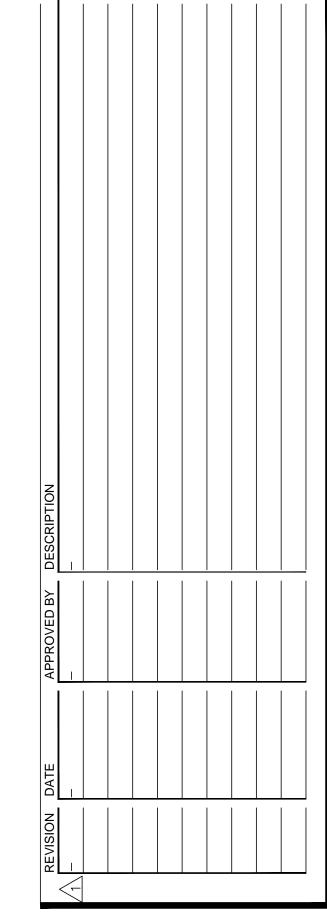
A3.11
WALL SECTIONS

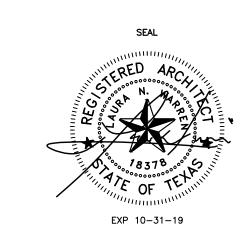






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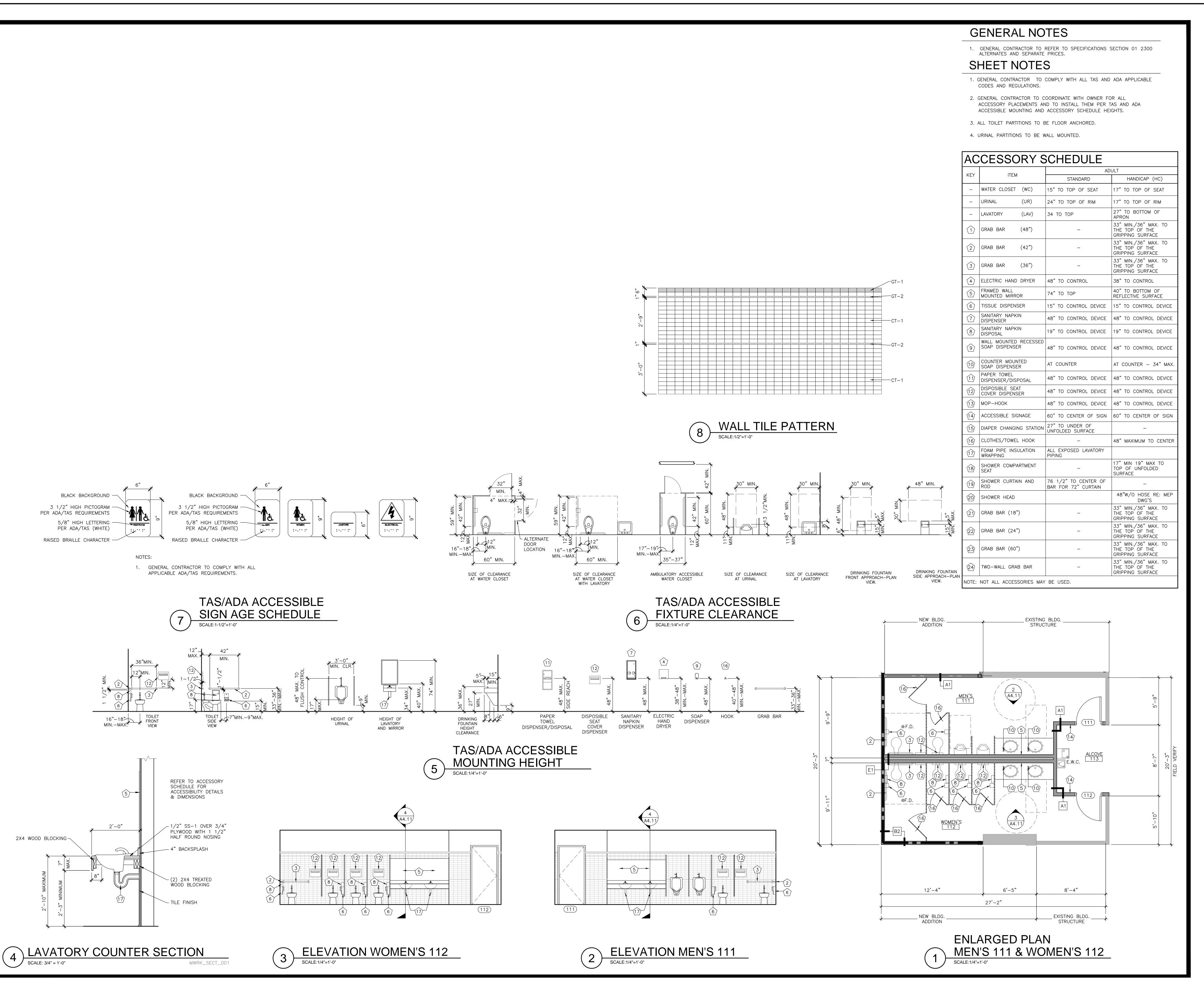


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A3.12
WALL SECTIONS

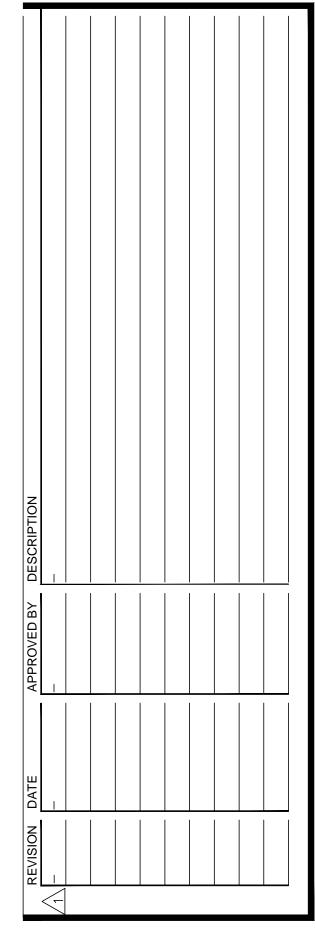


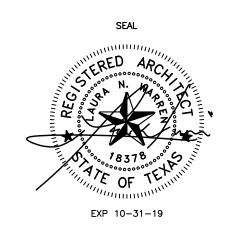


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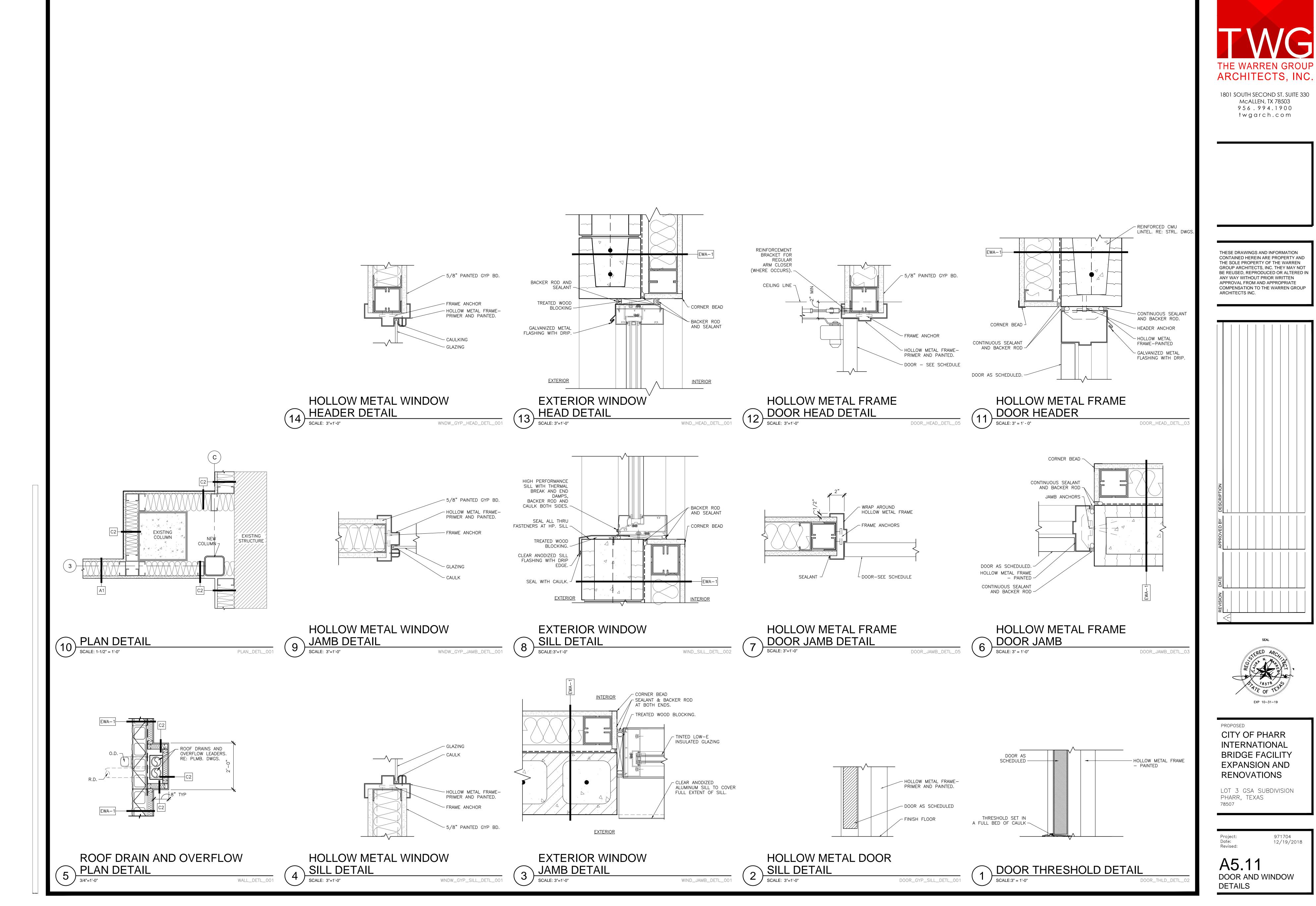


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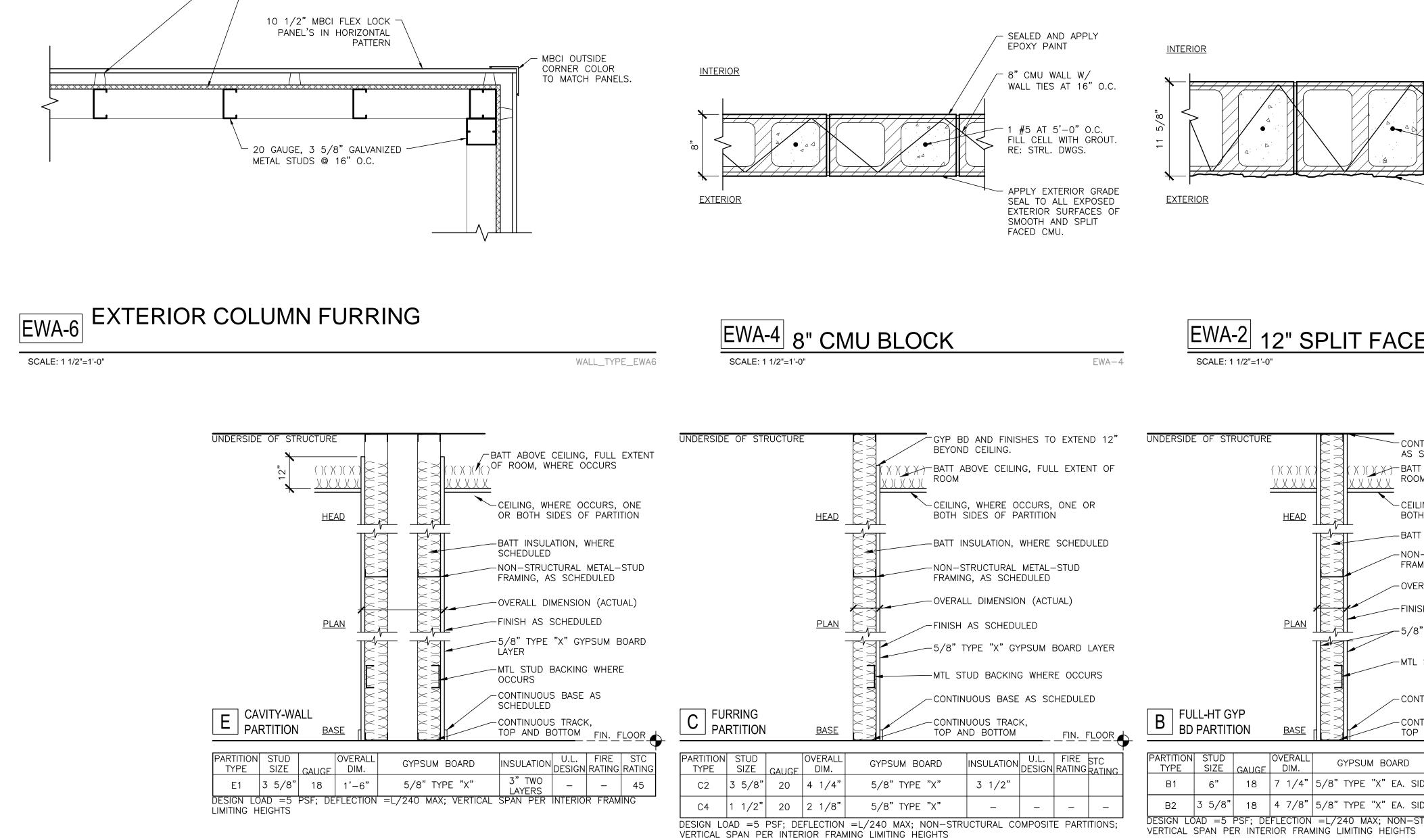
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Project: 971704
Date: 12/19/2018

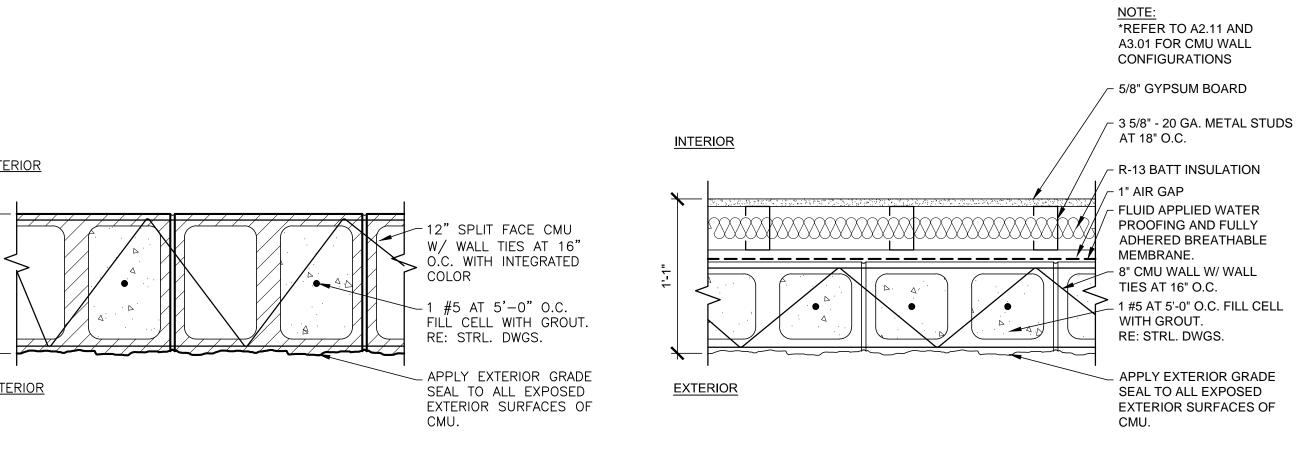
A4.11
ENLARGED RESTROOM
PLAN AND SCHEDULE

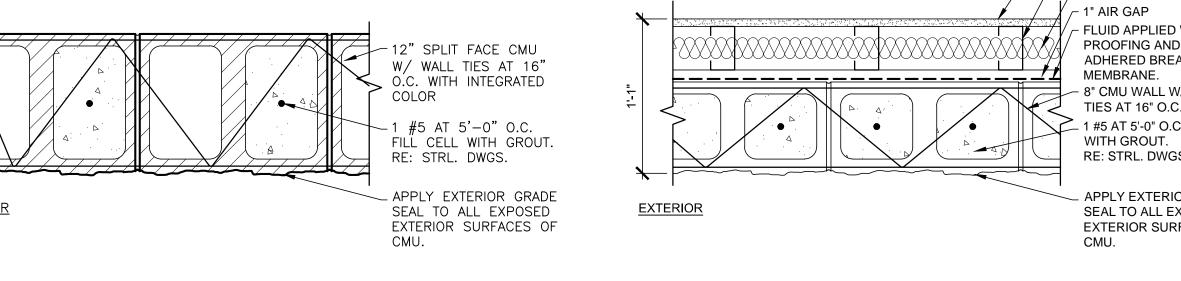


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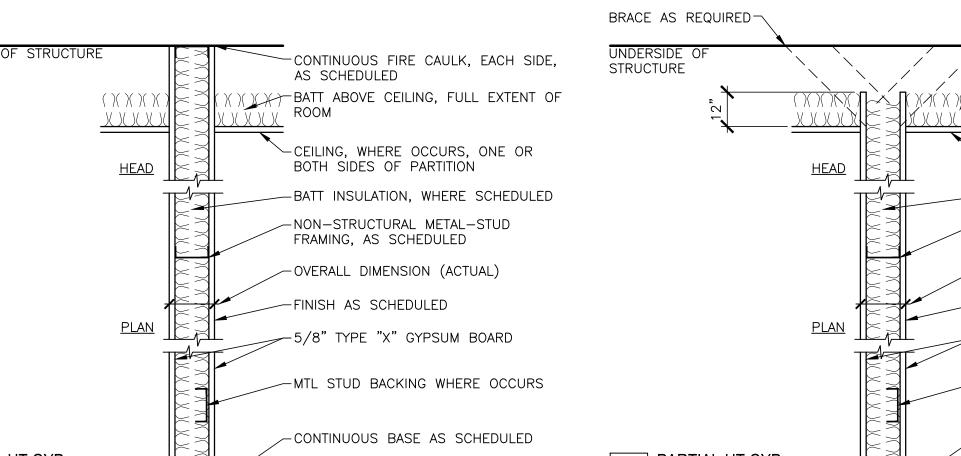


- 1/2" DENSE GLASS GOLD PANELS









	MTL STUD BACKING WHERE OCCURS							WHERE	MTL STUD BACKING WHERE OCCURS			
						CONTIN	IUOUS BASE .	AS SCH	HEDULE	ID.	CONTINUOUS BASE AS SCHEDULED	
_	. . .	LL-HT G` PARTIT		<u>BASE</u>			IUOUS TRACK ND BOTTOM		FIN. F	LOOR 📥	A PARTIAL-HT GYP BD PARTITION BASE TOP AND BOTTOM FIN. FLOO	OR 📥
	PARTITION TYPE		GAUGE	OVERALL DIM.	GYPSU	M BOARD	INSULATION					
3	B1	6"	18		5/8" TYPE	"X" EA. SIDE	6"	_	<u> </u>	-	A1 3 5/8" 18 4 7/8" 5/8" TYPE "X" EA. SIDE 3"	11110
	B2	3 5/8"	18	·	'	"X" EA. SIDE		-	_ 	-	DESIGN LOAD =5 PSF; DEFLECTION =L/240 MAX; NON-STRUCTURAL COMPOSITE PARTITIO VERTICAL SPAN PER INTERIOR FRAMING LIMITING HEIGHTS	NS;

BRACE AS RE UNDERSIDE OF STRUCTURE				/				
	12."				BOVE CEILIN OF ROOM	NG, FULI	L	
		HEAD .			S, WHERE O SIDES OF P)R
		-		—BATT II	NSULATION,	WHERE	SCHED	ULED
					TRUCTURAL G, AS SCHE		-STUD	
				— OVERAL	L DIMENSIO	N (ACTU	JAL)	
		<u>PLAN</u>		-FINISH	AS SCHEDU	JLED		
		<u>1 LAIN</u> .		−5/8" T	YPE "X" GY	PSUM E	BOARD	
				−MTL ST	UD BACKING	G WHER	E OCCI	JRS
				— CONTIN	UOUS BASE	AS SC	HEDULE	ED
Ι Δ Ι	AL-HT GYP RTITION	<u>BASE</u>			UOUS TRAC ND BOTTOM	K,	<u> FIN. F</u>	LOOR
	TUD IZE GAUGE	OVERALL DIM.	GYPSUM BO	ARD	INSULATION	U.L. DESIGN	FIRE RATING	STC RATIN

EWA-1 8" CMU AND MTL. STUD

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

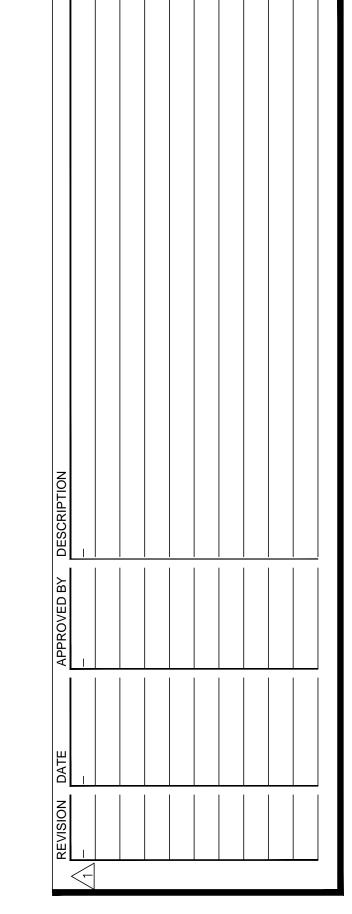
. ARCHITECTS, INC.

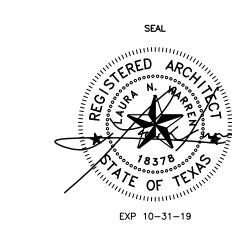
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EWA-1.DWG

PROPOSED CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

> 971704 12/19/2018

Project: Date: Revised:

WALL TYPES

SYP BD-1 STANDARD		GYP BD-2 MOISTURE RESISTANT	
09 30 00 TILING			
MANUFACTURER: LINE/BRAND: COLOR: FINISH: SIZE:	DALTILE WALL TILE ARCTICT WHITE 0190 SEMI—GLOSS 3"X6"	GRT-1 MANUFACTURER: LINE/BRAND: COLOR: FINISH: SIZE:	MAPEI
GT-1 MANUFACTURER: LINE/BRAND: COLOR: FINISH: SIZE:	DALTILE COLOR APPEAL CELEDON C112 GLASS 3"X6"	GT-2 MANUFACTURER: LINE/BRAND: COLOR: FINISH: SIZE:	DALTILE COLOR WAVE NINE IRON CW19 GLASS 1"X1"
09 50 00 CEILINGS		ΔCT_1	
ACG-1 Refer specification	NS SECTION 09 51 13	ACT-1 REFER SPECIFICATION	NS SECTION 09 51 13
ACG-1	NS SECTION 09 51 13		MANNINGTON COMMERCIAL RIDGELINE NATIVE 15906 12"X48" PLANK
ACG-1 REFER SPECIFICATION 09 60 00 FLOORING RB-1 MANUFACTURER: LINE/BRAND:	NS SECTION 09 51 13 JOHNSONITE WALL BASE	REFER SPECIFICATION CPT-1 MANUFACTURER: STYLE: COLOR: SIZE:	MANNINGTON COMMERCIAL RIDGELINE NATIVE 15906

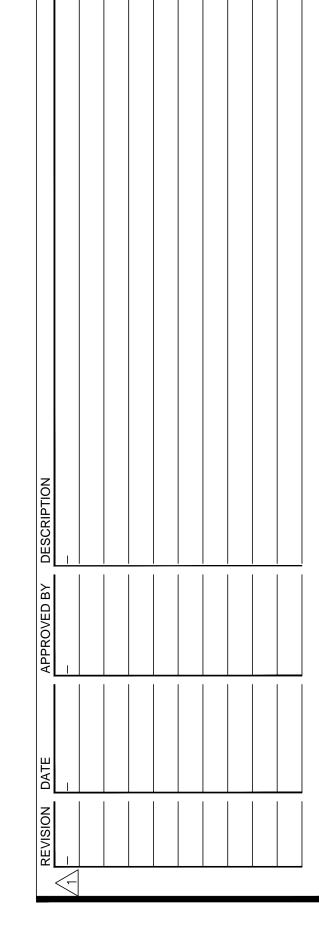
MC-1 MANUFACTURER: LINE/BRAND: COLOR/FINISH: SIZE:	MBCI FLEXLOC SIG.200 POLAR WHITE 10½"	C-2 MANUFACTURER: LINE/BRAND: COLOR/FINISH: SIZE:	MBCI FLEXLOC SIG.200 COBALT BLUE 10½"
09 90 00 PAINTING	AND COATING		
PNT-1 (FIELD) MANUFACTURER: COLOR: FINISH:	P SHERWIN WILLIAMS DRIFT OF MIST SW9166 EGGSHELL	NT-2 (ACCENT) MANUFACTURER: COLOR: FINISH:	SHERWIN WILLIAMS RUSKIN ROOM GREEN SWO EGGSHELL
PNT-3 (ACCENT) MANUFACTURER: COLOR:	SHERWIN WILLIAMS P FUNCTIONAL GRAY SW7024	MANUFACTURER:	SHERWIN WILLIAMS OUTERSPACE SW6251
FINISH:	EGGSHELL	COLOR: FINISH:	EGGSHELL
PNT-5 (CEILING) MANUFACTURER: COLOR: FINISH:	SHERWIN WILLIAMS EXTRA WHITE SW 7005 EGGSHELL	NT-6 (EXTERIOR) MANUFACTURER: COLOR:	SHERWIN WILLIAMS SILVER STRAND SW7057 SHERLASTIC ELASTOMERIC MASONRY COATING A5-600 SERIES
ST-1 (DOORS) MANUFACTURER: COLOR:	SHERWIN WILLIAMS SW 3144-B BARE BIRCH	* TWO COATS OF EL BLOCK SURFACER A2	ASTOMERIC PAINT OVER LOXON 24W00200
10 20 00 INTERIOR S FEC-1 5 LBS. LOADED STR WITH SEMI-RECESSE	EAM FIRE EXTINGUISHER D CABINET		
PL-1 MANUFACTURER: LINE/BRAND: COLOR/FINISH:		PL-2 MANUFACTURER: LINE/BRAND: COLOR/FINISH:	WILSONART LAMINATE MANITOBA MAPLE 7911—60 (VERTICAL)
SS-1			

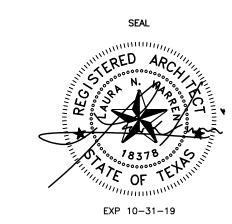
RC	OM FINISH SCHED	ULE							
ROOM NO.	ROOM NAME	BASE	FLOOR	NORTH	EAST WA	ALL SOUTH	WEST	CEILING	NOTES
E101	LOCK	RB-1	VET-3	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN; PNT-5	
E102		RB-1	VET-1, VET-2,	PNT-1	PNT-1	PNT-1	PNT-3	EXISTING TO REMAIN; PNT-5	
E103	CONFERENCE	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	_	EXISTING TO REMAIN; PNT-5	
E104	MECH.	-	-	_	_	_	_	EXISTING TO REMAIN; PNT-5	
E105	LOBBY	RB-1	VET-1, VET-2, VET-3	PNT-2	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN; PNT-5	
E106	CORRIDOR	RB-1	VET-1, VET-2, VET-3	_	PNT-2	_	PNT-1	EXISTING TO REMAIN; PNT-5	
E107	OFFICE	RB-1	CPT-1	PNT-1	PNT-1	PNT-3	PNT-1	EXISTING TO REMAIN; PNT-5	
E108	COMP.	RB-1	VET-1, VET-2, VET-3	PNT-2	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN; PNT-5	
E109	BREAK	RB-1	VET-2,	PNT-1	PNT-4	PNT-1	PNT-1	EXISTING TO REMAIN; PNT-5	
E110	JANITOR	_		_	_	_	_	EXISTING TO REMAIN; PNT-5	
E111	CORRIDOR	RB-1	VET-1, VET-2, VET-3	PNT-1	PNT-2	PNT-2	PNT-1	EXISTING TO REMAIN; PNT-5	
E112	TELE/IT	RB-1	VET-3	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN; PNT-5	
E115	VAULT	RB-1	VET-3	PNT-1	PNT-1	PNT-1	PNT-1	EXISTING TO REMAIN; PNT-5	
E116	ACCOUNTING	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-3	EXISTING TO REMAIN; PNT-5	
E119	MECH.	-	-	_	-	_	_	ACG-1; ACT-1	
E120	MECHANICAL YARD	-		_	_	_	_	EXISTING TO REMAIN; PNT-5	
101	BOARD ROOM	RB-1	CPT-1	PNT-1	PNT-1	PNT-1	PNT-4	GYP BD-1; PNT-5; ACG-1; ACT-1	
102	CORRIDOR	RB-1	VET-2	PNT-2	PNT-1	PNT-1	PNT-1	ACG-1; ACT-1	
103	OFFICE	RB-1	CPT-1	PNT-1	PNT-1	PNT-2	PNT-1	ACG-1; ACT-1	
104	OFFICE	RB-1	CPT-1 VET-1,	PNT-3	PNT-1	PNT-1	PNT-1	ACG-1; ACT-1	
105	CORRIDOR	RB-1	VET-2,	PNT-1	PNT-1	PNT-1	PNT-2	ACG-1; ACT-1	
106	CORRIDOR	RB-1	VET-2,	PNT-1	PNT-1	PNT-2	PNT-1	ACG-1; ACT-1	
107	OFFICE	RB-1	CPT-1	PNT-1	PNT-1	PNT-2	PNT-1	ACG-1; ACT-1	
108	CONFERENCE	RB-1	CPT-1	PNT-4	PNT-1	PNT-1	PNT-1	ACG-1; ACT-1	
109	OFFICE	RB-1	CPT-1	PNT-2	PNT-1	PNT-1	PNT-1	ACG-1; ACT-1	
110	OFFICE	RB-1	CPT-1	PNT-3	PNT-1	PNT-1	PNT-1	ACG-1; ACT-1	
111	MEN	PT-1	PT-1	GYP. BD-2; PNT-1	GYP. BD-2; PNT-1	GYP. BD-2; PNT-1; CT-1; GT-1; GT-2; GRT-1	GYP. BD-2; PNT-1	GYP.BD-2; PNT-5	
112	WOMEN	PT-1	PT-1	GYP. BD-2; PNT-1; CT-1; GT-1; GT-2; GRT-1	GYP. BD-2; PNT-1	GYP. BD-2; PNT-1	GYP. BD-2; PNT-1	GYP.BD-2; PNT-5	
113	ALCOVE	RB-1	VET-1, VET-2, VET-3	PNT-1	_	PNT-1	GYP. BD-1; PNT-1	GYP.BD-1; PNT-5	

GEI	GENERAL NOTES							
1	ALL CEILING HEIGHTS TO BE 8'-9" A.F.F. UNLESS OTHERWISE NOTED.							
2	ALL WALL FINISH SURFACES TO HAVE SMOOTH FINISH — <u>NO TEXTURE.</u>							
3	ALL WALLS WITH NEW FINISHES TO RECEIVE ONE PRIMER COAT AND TWO FINISH COATS OF NEW PAINT FINISH. REFER SPECIFICATIONS.							
4	WOMENS RR & MENS RR ALL WALLS TO BE MOISTURE RESISTANT GYPSUM BOARD. REFER SCHEDULE FOR APPLIED FINISHES.							
5	REFER TO SHEET A1.41 FOR FLOOR PATTERN AND ACCENT WALL PLAN.							
6	REFER TO SHEET A4.11 FOR RESTROOM WALL TILE PATTERNS.							
7	ALL PAINTED GYP. BD. CEILING IS TO RECEIVE PNT-5.							



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CITY OF PHARR
INTERNATIONAL
BRIDGE FACILITY
EXPANSION AND
RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS 78507

Project: Date: 971704 12/19/2018

A6.11

ROOM FINISHES

DO	OR SCH	EDULE											
OPEN	ING				DOOR				FRAME			TO LH RH	
No	LOCATION TO			SWING	FIRE RATING	TYPE	FINISH	SIZE	ELEV	TYPE	FINISH	REMARKS	LHR RHR
10	CORRIDOR 10	D2 TO BOARD	ROOM 101	LHR	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL	PNT-1		
103	CORRIDOR 10	02 TO OFFICE	103	RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL	PNT-1		
104	CORRIDOR 10	05 TO OFFICE	104	RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL	PNT-1		
106	EXTERIOR TO	CORRIDOR 10)6	RHR	_	INSULATED HOLLOW METAL	PNT-1	3'-0" X 7'-0"	А	H.MTL	PNT-1	DOOR WITH	H PANIC DEVIC
107	CORRIDOR 10	05 TO OFFICE	107	RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
1084	CORRIDOR 10	05 TO CONFER	RENCE 108	RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	D	H.MTL.	PNT-1		
108E	OFFICE 107	TO CONFERENCE	CE 108	LH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
109A	CORRIDOR 10	05 TO OFFICE	109	LH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
109E	OFFICE 109	TO CONFERENCE	CE 108	RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
110	CORRIDOR 10	05 TO OFFICE	110	LH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
11	ALCOVE 113	TO MEN'S 11	1	RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
112	ALCOVE 113	TO WOMEN'S	112	LH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
E102	LOBBY E105	TO L.E.O. E10)2	RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
F103	LOBBY F105	TO CONFEREN	ICF F103	RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
		E103 TO STO		DOUBLE	_	STAINED FLUSH WOOD DOOR	ST-1	(2) 3'-0" X 7'-		H.MTL.	PNT-1		
		TO OFFICE E		RH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
		106 TO OFFICE		RH		STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
		106 TO COMP		LH	_	STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
		111 TO BREAK		LH		STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
		111 TO BREAK		LH		STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
		106 TO ACCOU		RH		STAINED FLUSH WOOD DOOR	ST-1	3'-0" X 7'-0"	С	H.MTL.	PNT-1		
		CHEDUL		ΙΝΠ		NOOD DOOK		10 -0 × / - 0	10				
			- 										
	T 105	FRAME TYPE	FIN HOLL	01.470.10			0175			DEL. 1. 2			
No A	\	TYPE	FINISH CLEAR		OW-E T	INTED TEMPERED	SIZE	SIZE		REMARKS			
\^ \B	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ALUMINUM	ANODIZED CLEAR	GLASS			5'-0" X 4				WINDOW R	AIL FLUSHED	WITH FINISH
<u>c</u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	HOLLOW	ANODIZED	1/4" CLEAR TE			4'-0" X 5		_	SELECTION	NS.		
<u></u>	1,25	METAL HOLLOW	PNT-1	1/4" CLEAR TE	MPEKED	GLASS	5'-0" X 7	7-2" C	_				

7'-0" X 4'-10" D -

SHEET NOTES

- GENERAL CONTRACTOR TO COMPLY WITH ALL ADA AND TAS APPLICABLE CODES AND REGULATIONS.
- GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURING
- . ALL EXTERIOR GLAZING TINT COLOR TO BE: PPG SOLARBAN 70XL ATLANTICA.
- INTERIOR GLAZING TO BE CLEAR.
- . REFER TO PROJECT MANUAL FOR HARDWARE SETS.

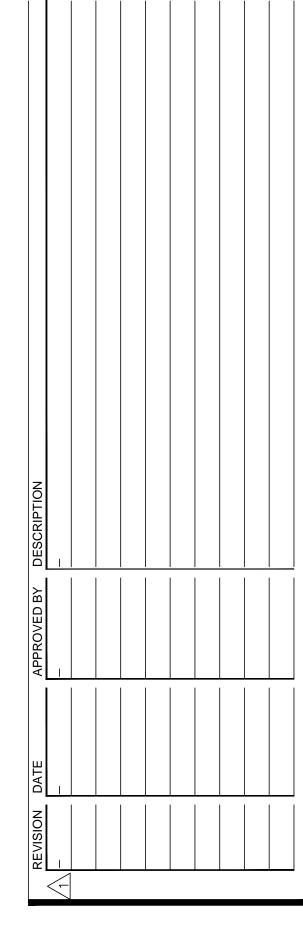


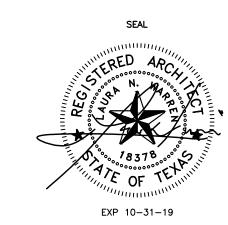
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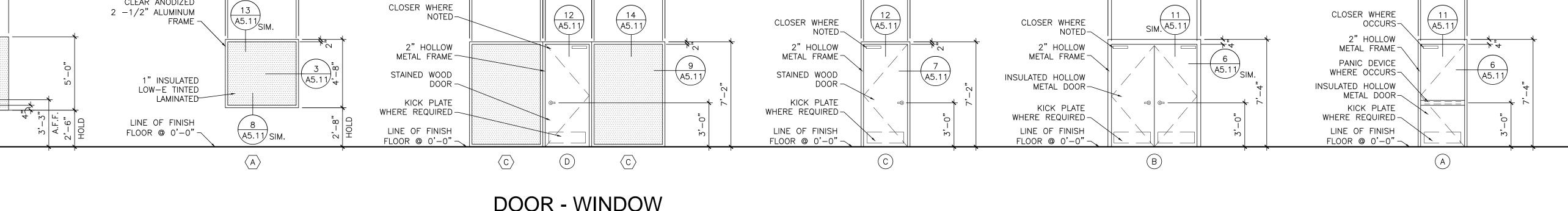
CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

DOOR ELEVATIONS

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

971704 12/19/2018 A6.12 DOOR AND WINDOW SCHEDULE & **ELEVATIONS**





HOLLOW METAL FRAME —

1/4" CLEAR SAFETY GLASS —

LINE OF FINISH FLOOR @ 0'-0" —

A5.11 SIM.

4 A5.11 SIM.

 $\langle D \rangle$

1/4" CLEAR SAFETY GLASS —

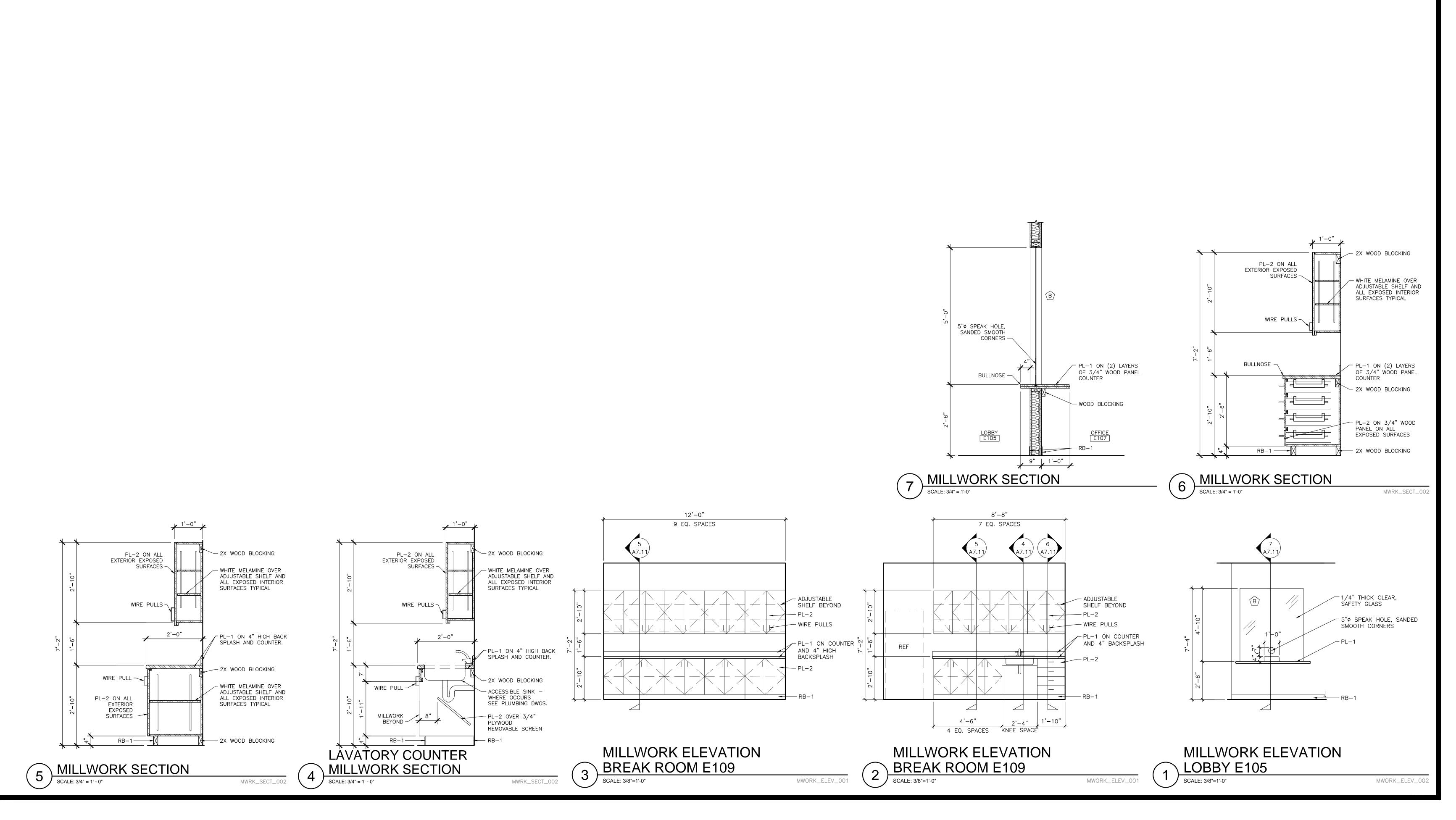
5" DIA. SPEAK HOLE, SANDED SMOOTH CORNERS—

LINE OF FINISH FLOOR @ 0'-0" \

 $\langle \mathsf{B} \rangle$



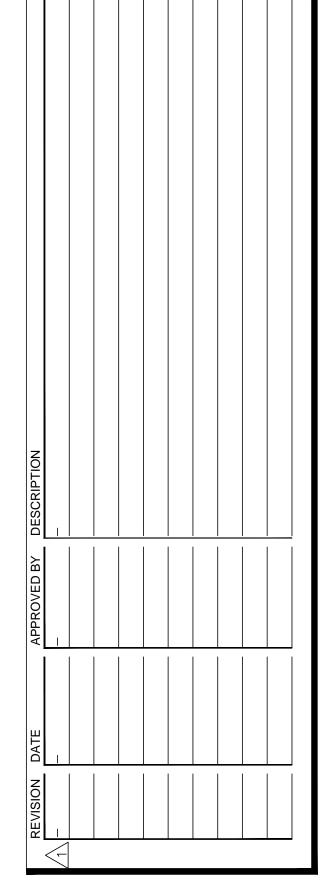


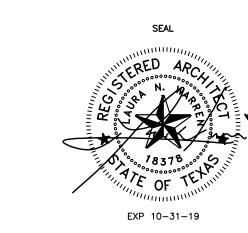






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CITY OF PHARR
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EXPANSION AND
RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS 78507

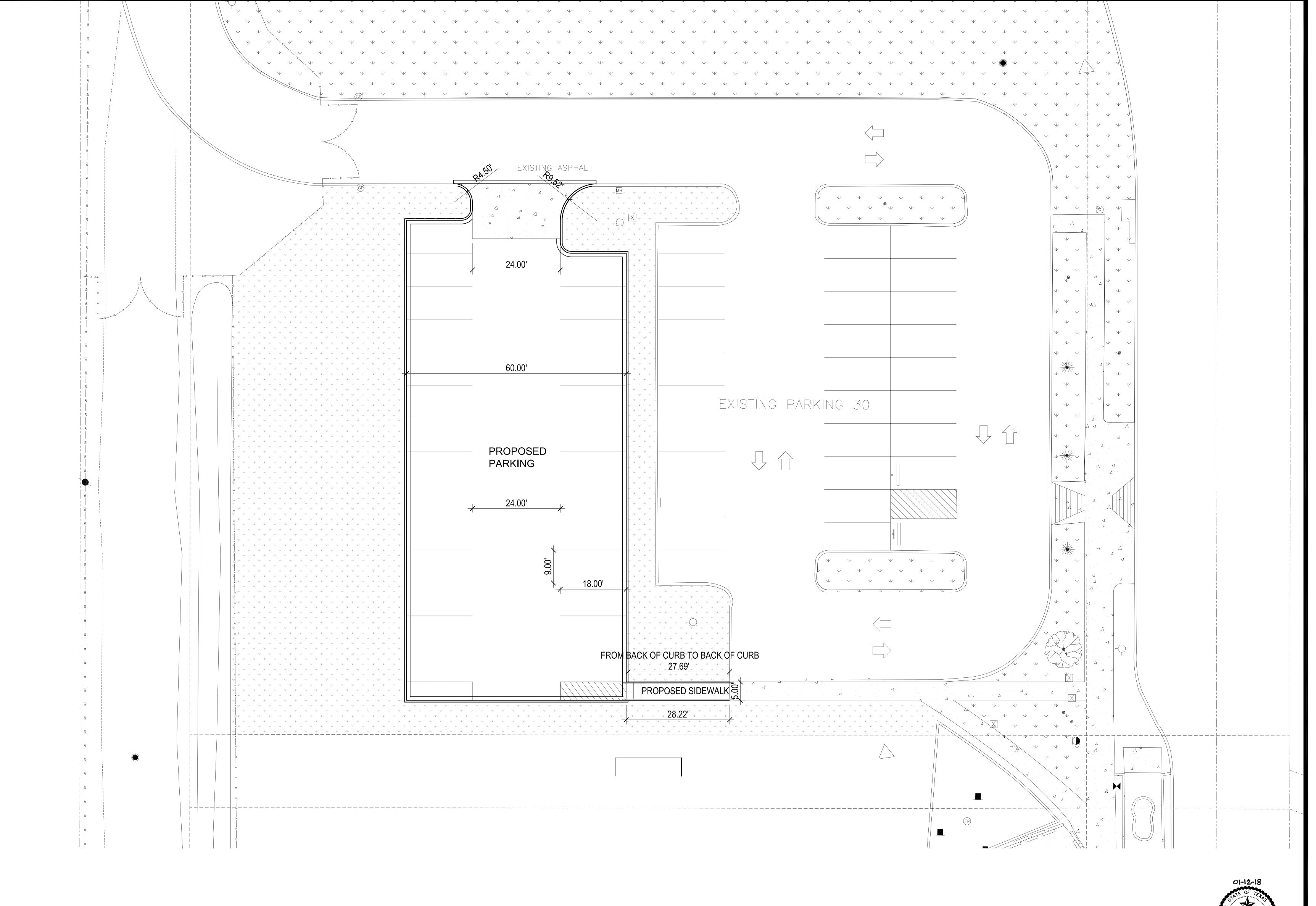
> 971704 12/19/2018

Project: Date: Revised:

A7.11

MILLWORK ELEVATIONS

AND SECTIONS



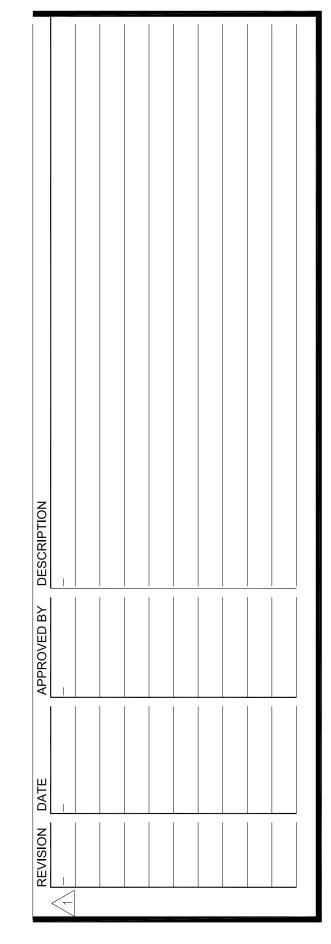
PAVING & DRAINAGE PLAN





1801 SOUTH SECOND ST. SUITE 330 McALLEN, TX 78503 9 5 6 . 9 9 4 . 1 9 0 0 t w g a r c h . c o m

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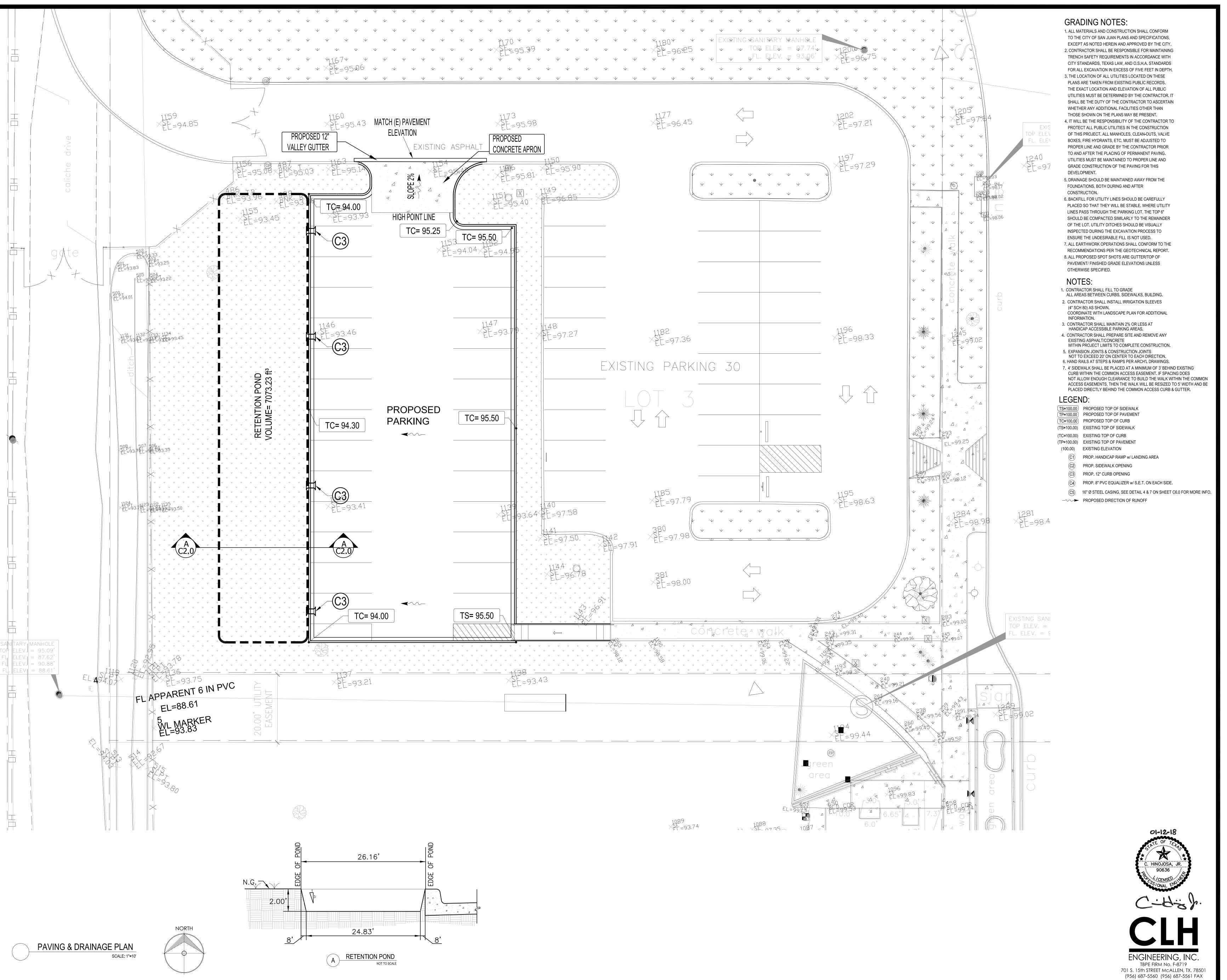
INTERNATIONAL BRIDGE FACILITY EXPANSION AND RENOVATION PHARR, TEXAS.

LOT 27 PHARR, TEXAS

PROJECT DATE REVISED

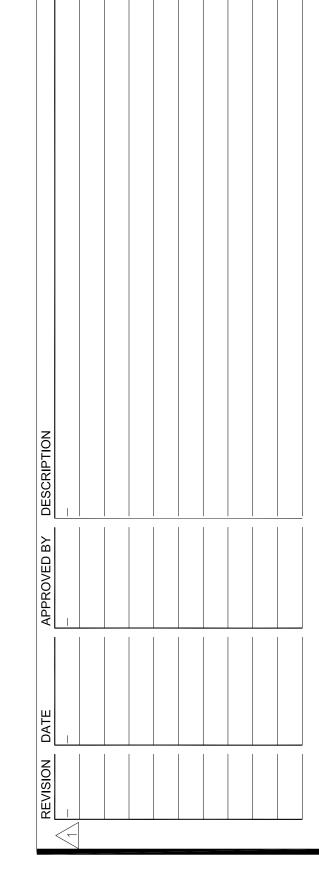
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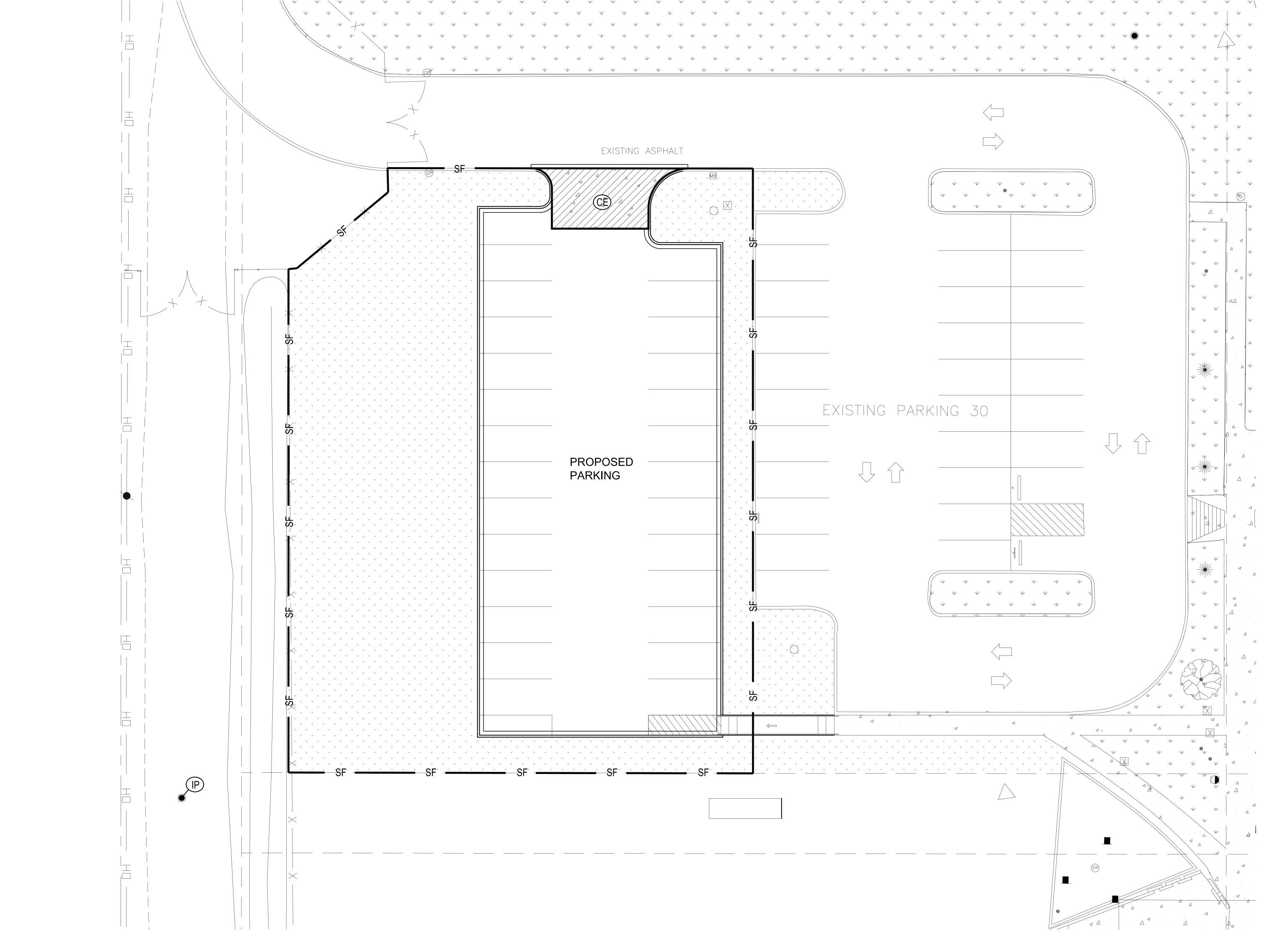
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PHARR, TEXAS

PROJECT DATE REVISED

971703 01/12/2018

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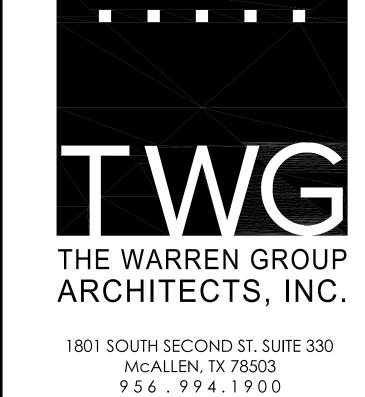
—SF — SEDIMENT CONTROL FENCE

CE) CONSTRUCTION ENTRANCE

IP) BALED HAY

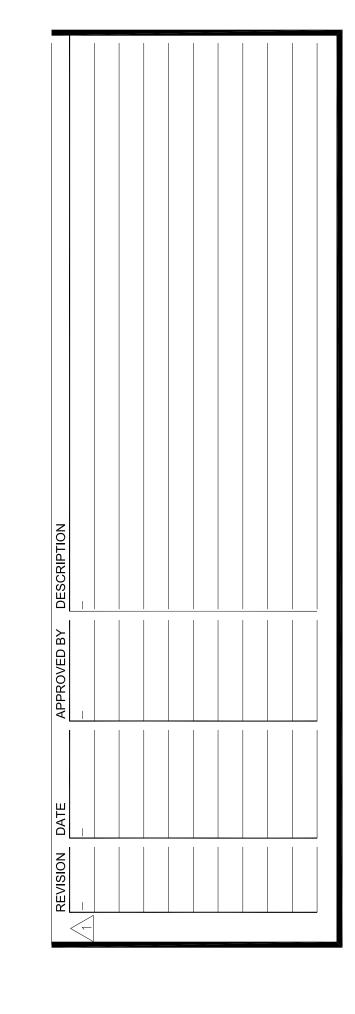


TBPE FIRM No. F-8719 701 S. 15th STREET MCALLEN, TX. 78501 (956) 687-5560 (956) 687-5561 FAX



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INTERNATIONAL BRIDGE FACILITY EXPANSION AND RENOVATION PHARR, TEXAS.

LOT 27 PHARR, TEXAS

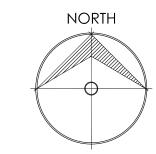
PROJECT DATE REVISED

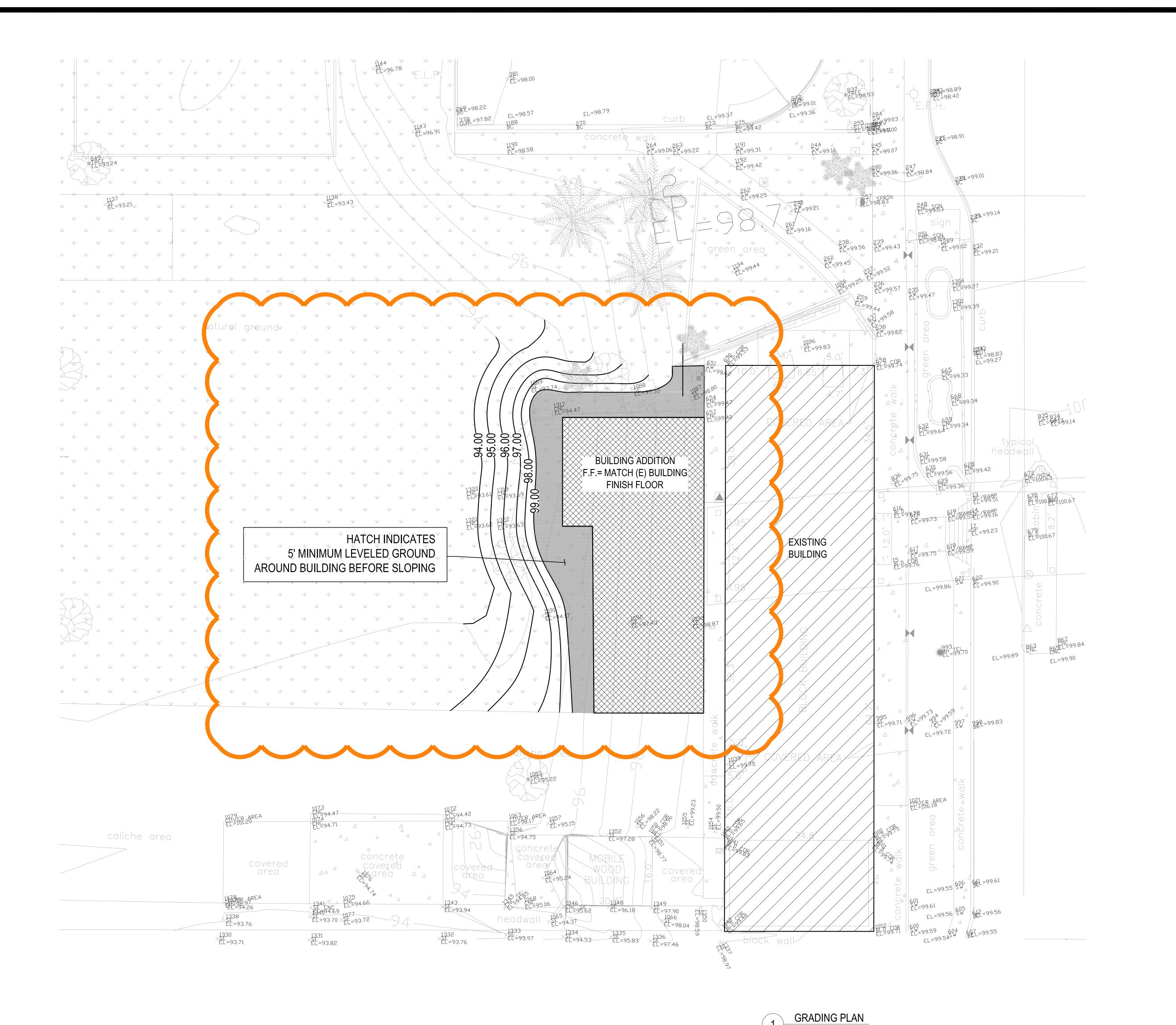
971703 01/12/2018

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EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=10"







1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF PHARR PLANS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN AND APPROVED BY THE CITY. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH. 3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.

4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.

5. DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.

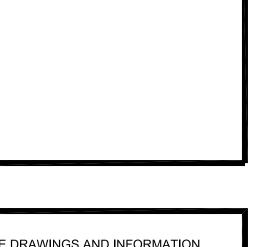
6. BACKFILL FOR UTILITY LINES SHOULD BE CAREFULLY PLACED SO THAT THEY WILL BE STABLE. WHERE UTILITY LINES PASS THROUGH THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THE UNDESIRABLE FILL IS NOT USED. 7. ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL REPORT.

NOTES:

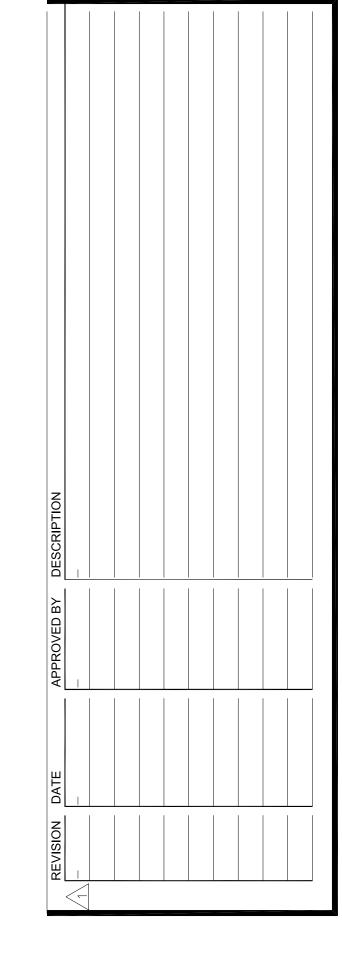
- 1. CONTRACTOR SHALL FILL TO GRADE ALL AREAS BETWEEN CURBS, SIDEWALKS, BUILDING.
- 2. CONTRACTOR SHALL PREPARE SITE AND REMOVE ANY EXISTING ASPHALT/CONCRETE WITHIN PROJECT LIMITS TO COMPLETE CONSTRUCTION.



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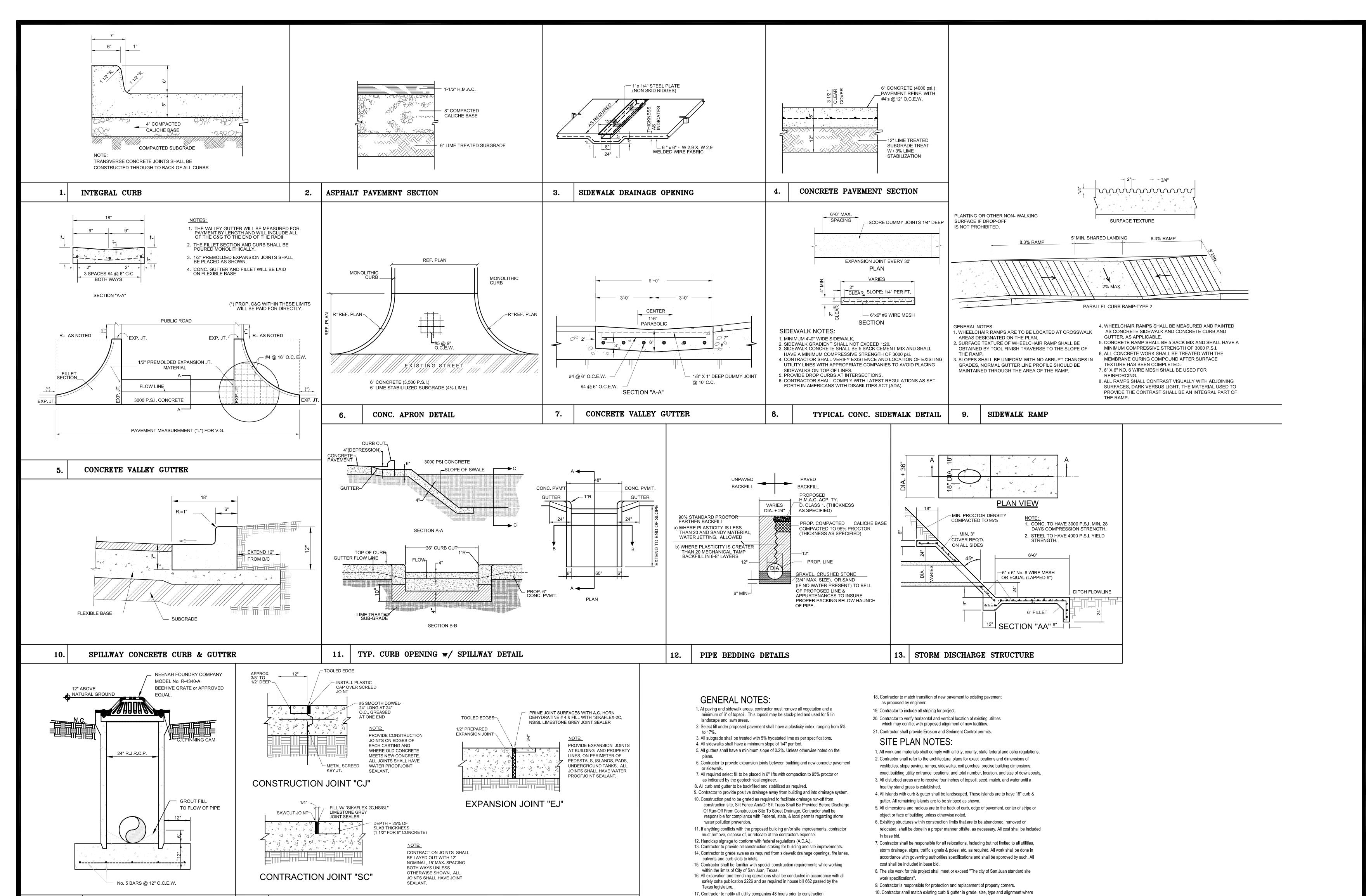


INTERNATIONAL BRIDGE FACILITY EXPANSION AND RENOVATION PHARR, TEXAS.

LOT 27 PHARR, TEXAS

971703 03/16/2018

ADDENDUM



of any site improvements for location of gas lines, telephone lines,

television cables, water lines and sewer lines.

11. Contractor shall be responsible for repairs to damage of any existing improvements

etc. Repairs shall be equal to or better than existing.

during construction, such as but not limited to drainage utilities, pavement, stripping, curb

C. HINOJOSA, JR.
90636

CENSENDA

SONAL ENG

ENGINEERING, INC.
TBPE FIRM No. F-8719

701 S. 15th STREET MCALLEN, TX. 78501
(956) 687-5560 (956) 687-5561 FAX

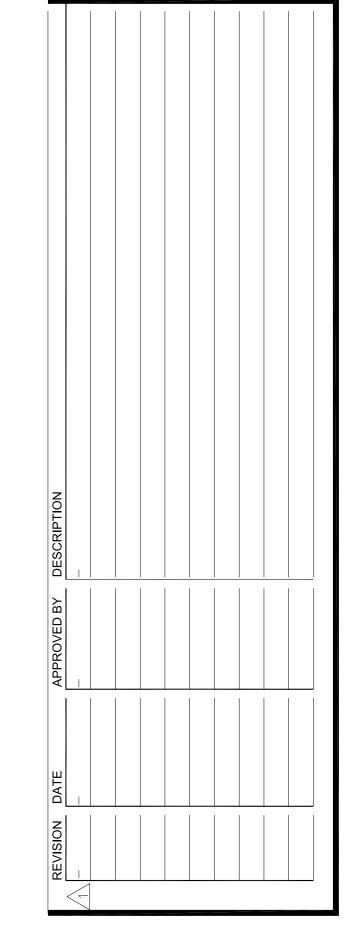
01-12-18

THE WARREN GROUP ARCHITECTS, INC.

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PROPOSED

INTERNATIONAL BRIDGE FACILITY EXPANSION AND RENOVATION PHARR, TEXAS.

LOT 27 PHARR, TEXAS

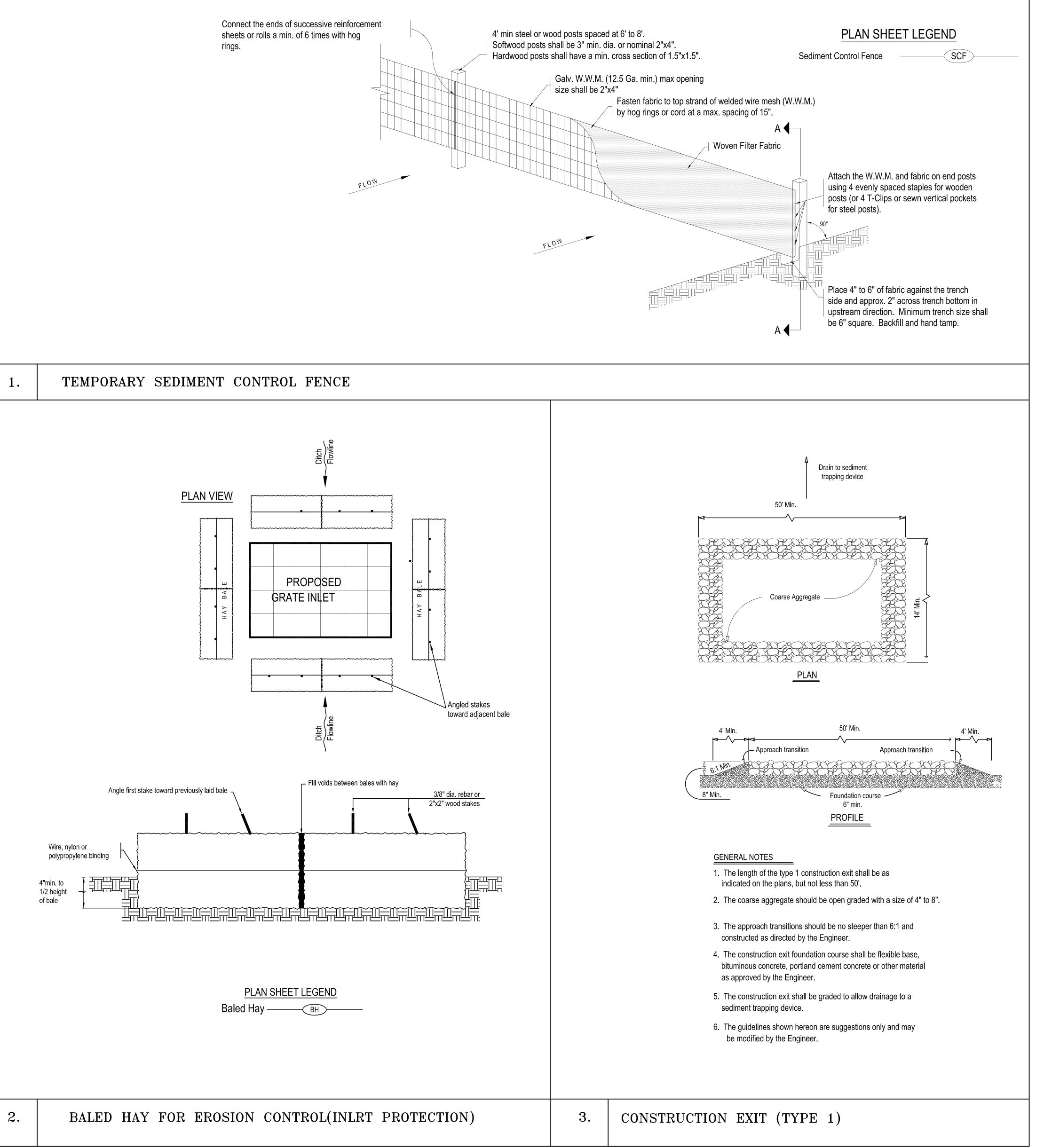
PROJECT 971703 DATE 01/12/2018 REVISED

C4.0

PAVING AND DRAINAGE DETAILS

BEE-HIVE INLET

CONCRETE JOINT DETAIL



GENERAL NOTES:

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

SEDIMENT CONTROL FENCE USAGE GUIDELINES

may be used to calculate the flow rate to be filtered.

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2-year storm frequency

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

GENERAL NOTES:

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

2. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 lbs.

3. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed enitrely of vegetable matter.

4. Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale

5. Hay bales shall be place in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.

6. Hay bales shall be securely anchored in place with 3/8" dia. rebar or 2"x2" wood stakes driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.

BALED HAY USAGE GUIDELINES

A Baled Hay Installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flowrate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT of cross sectional area. Baled hay may be used at the following locations:

1. Where the runoff approaching the baled hay flows over disturbed soil less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.

2. Where the installation will be required for less than 3 months.

3. Where the contributing drainage area is less than 1/2 acre.

For Baled Hay Installations in small ditches, the additional following considerations apply:

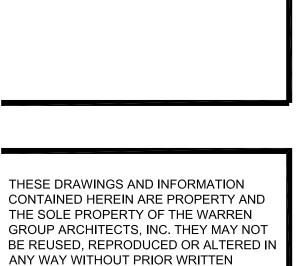
1. The ditch sideslopes should be graded as flat as possible to maximize the drainage

2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replace usually every two months or more often during wet weather when loss of structural integrity is accelerated.

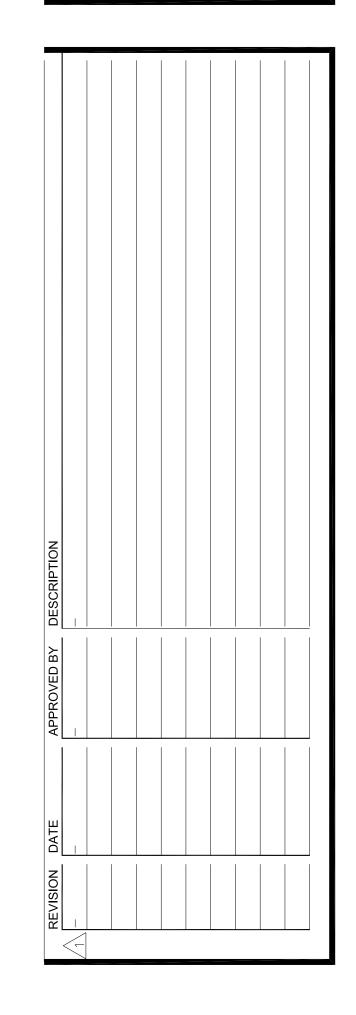
THE WARREN GROUP ARCHITECTS, INC.

1801 SOUTH SECOND ST. SUITE 330 McALLEN, TX 78503 956.994.1900 twgarch.com



APPROVAL FROM AND APPROPRIATE COMPENSATION TO THE WARREN GROUP

ARCHITECTS INC.



PROPOSED

INTERNATIONAL BRIDGE FACILITY EXPANSION AND RENOVATION PHARR, TEXAS.

LOT 27 PHARR, TEXAS

PROJECT DATE REVISED

01-12-18

ENGINEERING, INC.

TBPE FIRM No. F-8719
701 S. 15th STREET MCALLEN, TX. 78501
(956) 687-5560 (956) 687-5561 FAX

971703 01/12/2018

C5.0

EROSION CONTROL DETAILS

GENERAL NOTES

- THIS CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE INDICATED THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING SAFETY NETS, SUPPORT AND BRACING FOR CRANES, POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS METHODS TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW
- 2. ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING BUILDING CODES AND REGULATIONS. 3. 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 ELEMENTS.
- OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED. 4. 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.
- 5. 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
- 7. 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. 8. THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS
- REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION THEREOF, DURING CONSTRUCTION 9. 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. 10. 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
- 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.

DEGICAL CRITERIA

SUBSURFACE INFORMATION

B. SHALLOW FOUNDATION

MINIMUM FOOTING DEPTH

MINIMUM FOOTING WIDTH:

CLIMATIC RATING (Cw)

PVR (UNDISTURBED SOIL)

PVR (WITH SITE IMPROVEMENT)

THE SITE BEGINS.

D	ESIGN CRITERIA	
	DESIGN LOADS, STRUCTURAL ANALYSIS	
1	MEMBERS ARE BASED UPON THE FOLLO CODE:	DWING CRITERIA: IBC 2012
1. 2.	CODE: LATERAL LOADS A. WIND SPEED (V ³ s): B. EXPOSURE CATEGORY: C. IMPORTANCE FACTOR: D. BUILDING CATEGORY E. SEISMIC DESIGN CATEGORY F. SITE CLASS G. SEISMIC COEFFICIENTS SS S1 Fa Fv Sms Sm1 Sds	145 MPH C 1.15 II A D D 0.056 g 0.014 g 2.5 3.5 0.140 g 0.050 g 0.093 g
	Sd1	0.033 g
3.	VERTICAL LOADS ROOF:	
	A. COLLATERAL LOAD:B. DEAD LOAD:C. LIVE LOAD: (REDUCIBLE)	0 PSF ACTUAL WEIGHT PSF 20 PSF AS CALCULATED BY SUB-CONTRACTOR PSF 0 PSF NONE SEE PLANS
	FLOOR: A. DEAD LOAD: B. LIVE LOAD, OFFICE: C. LIVE LOAD, LIGHT STORAGE D. LIVE LOAD, HEAVY STORAGE: E. LIVE LOAD, CLASSROOM: F. LIVE LOAD, CORRIDOR: G. MECHANICAL UNITS	50 PSF 50 PSF 125 PSF 250 PSF 40 PSF 100 PSF SEE PLANS

A. PREPARED BY: ORIGINAL COBBLESTONE ENGINEERING, INC. REPORT

ALLOWABLE BEARING PRESSURE (CONTINUOUS FOOTINGS):

ALLOWABLE BEARING PRESSURE (ISOLATED FOOTINGS):

EFFECTIVE PLASTICITY INDEX (UNDISTURBED, NATIVE SOIL)

WIRE REINFORCEMENT INSTITUTE (WRI) CRITERIA

EFFECTIVE PLASTICITY INDEX (SITE IMPROVED SOIL)

24 INCHES

12 INCHES

2200 PSF

2200 PSF

1.75 TO 2.25 INCHS

1.0 INCH

Sheet List							
Sheet Number	Sheet Name						
0.40.4							
S101	General Notes						
S102	General Notes						
S201	Foundation Plan						
S301	Roof Framing Plan						
S401	Typical Concrete Details						
S402	Foundation Details Void Forms						
S403	Typical CMU Details						
S501	Elevations						

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 FRRORS 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.

ITEM	REQUIRED
A. CONCRETE MIX DESIGN	X
BCURING COMPOUND FOR CONCRETE	X
C. REINFORCING STEEL	X
DSTRUCTURAL STEEL	
E. STEEL JOIST	
F. METAL DECKING (INDICATE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, DECK OPENINGS, SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.)	
G. PRE-MANUFACTURED METAL BUILDING (INCLUDE CALC'S & REACTIONS)	
H. PRE-MANUFACTURED WOOD TRUSSES	

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 FOUAL 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 TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER
- PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE "Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF
- SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB. 14. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE 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 TEST REPORT. IF MILL TEST REPORTS ARE NOT AVAILABLE, A CHEMICAL ANALYSIS SHALL BE MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL NOT EXCEED 0.55 AS CALCULATED PER IBC CHAPTER 19, A COPY OF THE MILL TEST OF

REINFORCING STEEL IN CONCRETE MEMBERS. (SPECIAL INSPECTION IS REQUIRED FOR ALL

16. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION. 17. CONCRETE COVER FOR REINFORCING AS FOLLOWS:

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

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	٧.)							
CONCRETE - LAP PER SCHEDULE BELOW										
	BAR SPLICE LAP LENGTH IN CONCRETE									
BAR	f'c =	f'c =	f'c =	f'c =						
SIZE	2000 PSI	3000 PSI	4000 PSI	5000 P						
#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".										

STRUCTURAL STEEL

STEEL FOR BUILDINGS.

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

	STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLO	WING AS	TM DESIGNAT	ΓIONS:		
	MATERIAL	DES	IGNATION	STRENGT		
	ANCHOR BOLTS	A36		Fy=36 ksi		
	PLATES	A36		Fy=36 ksi		
	ANGLES	A36		Fy=36 ksi		
	CHANNELS	A36		Fy=36 ksi		
	WIDE FLANGE SHAPES	A572		Fy=50 ksi		
	STEEL PIPE	A53	GRADE B	Fy=35 ksi		
	SQUARE & RECT. STEEL TUBES (HSS)	A500	GRADE B	Fy=46 ksi		
	_ROUND TUBES (HSS)	500	_GRADE B	Fy=42 ksi_		
ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED, AND PAINTED IN						
	ACCORDANCE WITH THE SPECIFICATIONS FOR THE DE	ESIGN, FA	ABRICATION, A	AND		
	ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS	AMENDE	ED TO DATE A	ND THE		
	CODE OF STANDARD PRACTICE, LATEST EDITION AS ADOPTED BY THE AMERICAN					
	INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS FO	OLLOWS	:			

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 . DETAILED AND OR SCHEDULED CONNECTIONS HAVE 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 ONE HALF 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

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

NOT SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGN BY THE STEEL

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 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 W14x26. ALL COLUMNS NOT SHOWN SHALL BE 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 E. FOR SLIP-TIGHT CONNECTIONS, HE SHALL VERIFY THE PRETENSION METHOD SELECTED BY THE CONTRACTOR HAS INDUCED THE REQUIRED MINIMUM TENSION
- 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 21. AT ALL TUBES. PROVIDE 3/8" THICK END PLATE, U.N.O.

ALLOWANCE

IN THE BOLT

4	ALLOWANCE					
	MATERIAL, FOR L FIELD REPRESEN	ADDITION TO THE MATERIAL SHOWN, THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL, FOR USE ON THE PROJECT AS DIRECTED BY THE STRUCTURAL ENGINEER ITELD REPRESENTATIVE. THE ALLOWANCE COST SHALL INCLUDE MATERIAL COST, ABOR COSTS AND PLACEMENT AT THE SITE.				
	BACK TO THE OW	NCE AT THE END OF THE PROJE /NER. E SHALL APPEAR ON THE SCHED				
	MATERIAL MATERIAL	SHALL AFFLANON THE SCHLE		OWANCE		
-	CONCRETE REINFORCING STEEL STRUCTURAL STEEL CMU		2 1000 2000 20	CU. YD. LBS LBS SQ. FT.		

SPECIAL NOTES TO OWNER

└-1. ─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 FLEMENTS TO WHICH THE BEAMS/SLABS ARE TIED. 2. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS Serviceability AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH 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

CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER

CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL

THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS. 3. 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" 4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUF TO

CAST-IN-PLACE CONCRETE

1. VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES. 2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE 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

UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315 LATEST EDITION THE MINIMUM 28 DAYS CYLINDER STRENGTH SHALL BE AS FOLLOWS: MAXIMUM | SIZE OF LARGE | WATER/CEMENT AT 28 DAYS SLUMP AGGREGATE RATIO 3000 PSI FOUNDATIONS SLAB ON GRADE 3000 PSI GRADE BEAMS

3000 PSI 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) 8. 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

9. BACKFILL AROUND PERIMETER TO PROVIDE POSITIVE DRAINAGE AWAY FROM SLAB.

FLOOR TOLERANCES F-NUMBER SYSTEM MINIMUM LOCAL VALUE COMPOSITE FLATNESS (F) LEVELNESS (F) IN ALL INSTANCES MINIMUM SLAB THICKNESS SHALL BE OBTAINED. COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS. 11. ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE.

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.

REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR

13. 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. 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.

B. GRIFFOLYN T-65 BY REEF INDUSTRIES (800) 231-6074. C. RUFCO D16WB BY RAVEN IND. AT TEXAS ENVIRONMENTAL PLASTIC: (281) 821-7320. INSTALL ATION 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. 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. PRE-INSTALLATION CONFERENCE:

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 PARTY

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 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 FIVE DAYS OF THE MEETING. 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:

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. ALL CONCRETE SHALL CONTAIN "POZZOLITH" ADMIX AS PER MANUFACTURER'S SPECIFICATIONS, IN ACCORDANCE WITH ASTM C494

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 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. 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 WATER-REDUCING. NON-CORROSIVE ACCELERATING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE C OR E, AND CONTAIN NOT MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) LISING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES, ACCEPTABLE PRODUCTS: FUCLID CHEMICAL ACCEL GUARD 80/90 AND ACCELGUARD NCA, MASTER BUILDERS NC534 AND POZZUTEC 20, W.R. GRACE POLARSET.

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

EVAPORATION RETARDER: WATERBORNE, MONOMOLECULAR FILM FORMING, MA FRESH CONCRETE a.) ACCEPTABLE PRODUCTS: "EUCOBAR" BY THE EUCLID CHEMICAL COMPANY - CONTAC

HE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SIMON G. SOLORIO JR., PE 83066 ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER 83066 NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

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CURING MATERIALS: EXTERIOR CURING: ALL EXTERIOR CONCRETE SLAI 1/12/2018 BE C LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID ME CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C 1315 WITH A MAXIMUM V.O.C. CONTENT OF 700 G/L.

a.) ACCEPTABLE PRODUCTS: "SUPER REZ SEAL" BY EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND THAT IS FORMULATED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C-309 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

a.) ACCEPTABLE PRODUCTS: "KUREZ DR VOX" BY THE EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT ALL CONCRETE SLABS SHALL ALSO BE MAINTAINED MOIST FOR 7 DAYS

CONCRETE MIXES

OF 350 G/L. APPLY AT 400 S.F./GALLON.

(877) 438-3826

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

3. 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 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.

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 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 IN A MOIST CONDITION FOR AT I FAST THE FIRST SEVEN (7) DAYS AFTER PLACEMENT INTERIOR SLABS - CURING: FIRST, 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 EMPERATURE 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 FLUID LEAKS.

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

TYPICAL TYPICAL AND SIMILAR UNLESS NOTED OTHERWISE U.N.O. CLR CI FAR COLUMN ABOVE

ARCHITECTS, INC.

1801 SOUTH SECOND SUITE 330 McALLEN, TX 78503 956.994.1900 twgarch.com

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Pharr, TEXAS

SPECIAL INSPECTION, MATERIALS TESTING.

- RESPONSIBILITIES OF THE OWNER A. EMPLOY AND PAY THE SPECIAL INSPECTION AGENCY TO PERFORM INSPECTIONS SPECIFIED A. REINFORCED CONCRETE: IN THIS SECTION AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION. B. EMPLOY AND PAY THE MATERIALS TESTING LABORATORY TO PERFORM TESTS SPECIFIED IN THIS SECTION AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION. 1) RETESTING - THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR RE-TESTING WHERE RESULTS OF INSPECTIONS AND TESTS PROVE UNSATISFACTORY AND INDICATE
- NONCOMPLIANCE WITH REQUIREMENTS. C. EMPLOY THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE STRUCTURAL DESIGN OR ANOTHER ENGINEER OR ARCHITECT DESIGNATED BY THE (DPR) TO PERFORM STRUCTURAL OBSERVATION. (REF 1702)

DEFINITIONS

- A. APPROVED FABRICATOR: A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD, TO PERFORM WORK, OFF SITE, REQUIRING SPECIAL INSPECTION WITHOUT SPECIAL INSPECTION. THE DESCRIPTION IN SECTION 1701.1 OF THE 1998 CALIFORNIA BUILDING CODE IS APPLICABLE.
- B. SPECIAL INSPECTION AGENCY: THE ACCREDITED INSPECTION BODIES DESIGNATED HEREIN AND APPROVED BY THE ENGINEER OF RECORD TO PERFORM SPECIAL INSPECTION AS REQUIRED BY THE BUILDING CODE AND THE PROJECT SPECIFICATIONS AND AS DESCRIBED IN SECTION 1701 1998 CALIFORNIA BUILDING CODE C. SPECIAL INSPECTOR: A QUALIFIED PERSON, EMPLOYED BY THE SPECIFIED SPECIAL
- INSPECTION AGENCY, WHO HAS DEMONSTRATED COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. DUTIES INCLUDE VISUAL OBSERVATIONS AND FIELD MEASUREMENTS OF MATERIALS, OBTAINING SPECIMENS FOR TESTS AND RELATED ACTIONS INCLUDING PREPARATION OF REPORTS
- D. TESTING LABORATORY: AN ACCREDITED MATERIALS TESTING LABORATORY, APPROVED BY THE ENGINEER OF RECORD, TO MEASURE, EXAMINE, TEST, CALIBRATE OR OTHERWISE DETERMINE THE CHARACTERISTICS OR PERFORMANCE OF CONSTRUCTION MATERIALS.
- E. CONTINUOUS INSPECTION: ON SITE INSPECTION BY THE SPECIAL INSPECTOR ON A CONTINUOUS BASIS OBSERVING ALL WORK REQUIRING SPECIAL INSPECTION. F. PERIODIC INSPECTION: INTERMITTENT INSPECTION AS PERMITTED BY THE PLAN SPECIFICATIONS AT PREDETERMINED INTERVALS OR MORE FREQUENTLY AS WORK PROGRESSES. NO SIGNIFICANT ELEMENTS OR AREAS SHALL BE COVERED BY ADDITIONAL WORK UNTIL APPROVED BY THE MUNICIPAL BUILDING INSPECTOR AND/OR THE SPECIAL
- G. STRUCTURAL OBSERVATION: THE VISUAL OBSERVATION, BY THE ENGINEER OF RECORD OR HIS DESIGNEE, INCLUDING BUT NOT LIMITED TO THE ELEMENTS AND CONNECTIONS, OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE SPECIAL AND MUNICIPAL INSPECTIONS REQUIRED BY CODES AND SPECIFICATIONS.
- H. EOR: ENGINEER OF RECORD I. DPR: ENGINEER OF RECORD/DESIGN PROFESSIONAL OF RECORD J. SPECIAL INSPECTION AND MATERIALS TESTING THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTORS DUTIES ARE DESCRIBED IN CBC
- 1701.3 AND CBC 1701.5 DOCUMENTED METHODS AND PROCEDURES SHALL BE USED FOR INSPECTION AND TESTING REQUIRED OF CONTRACTUAL DOCUMENTS, AND FOR ESTABLISHING ACCEPTANCE CRITERIA. ALL INSTRUCTIONS, STANDARDS, PROCEDURES, CHECKLISTS RELEVANT TO THE WORK WILL BE KEPT UP TO DATE AND READILY AVAILABLE FOR USE. NO INSPECTION OR TEST WILL BE PERFORMED IF THE SAFETY OF THE TESTING PERSONNEL
- IS IN QUESTION DUE TO JOB SITE CONDITIONS. PRIOR TO PROJECT COMMENCEMENT. THE TESTING AGENCY WILL CONFER WITH AND OBTAIN THE APPROVAL FROM THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD REGARDING THE INSPECTION AND TESTING PROCEDURES OR SPECIFICATIONS INCLUDING ANY APPROPRIATE ASTM METHODS. CODE REQUIREMENTS OR PROJECT SPECIFICATION REQUIREMENTS. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS, AS REQUIRED, AND PROCEDURES WITH
- APPLICABLE CODES, PLANS, AND SPECIFICATIONS. 1. ALL INSPECTIONS SHALL BE PERFORMED BY AN ACCREDITED, APPROVED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUBCONTRACTOR ACCREDITATION TO ASTM E-329-95C, STANDARD
- SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERRED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES. THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY. REINFORCED

CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE

- PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. 4. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE
- BUILDING OFFICIAL. THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND
- SPECIFICATIONS AND THE WORKMANSHIP PROVISIONS OF THE CBC. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL. SPECIAL INSPECTION REPORTS
- THESE REPORTS SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING INFORMATION: A. PERMIT NUMBER B. NAME OF THE MUNICIPAL INSPECTOR, IF AVAILABLE, AND OF THE GOVERNING MUNICIPALITY
- C. SPECIAL INSPECTION AGENCY NAME, ADDRESS, AND PHONE NUMBER D. UNIQUE IDENTIFICATION OF THE REPORT AND OF EACH PAGE. E. CLIENT NAME AND ADDRESS
- F. NAME AND ADDRESS OF THE DESIGN PROFESSIONAL OF RECORD, AND OTHER DESIGNERS OR ENGINEERS APPLICABLE TO THE PROJECT G. DESCRIPTION OF THE TYPE OF INSPECTION PERFORMED H. ANY UNRESOLVED DEVIATIONS, EXCLUSIONS, AND ADDITIONS TO OR FROM THE APPROVED DRAWINGS AND SPECIFICATIONS RELEVANT TO THE SPECIFIC INSPECTION
- I. COMPLIANCE FINDINGS AND REFERENCE J. DESCRIPTION OF LOCATION WHERE THE INSPECTION WAS PERFORMED WITHIN
- THE PROJECT K. TIME AND DATE OF THE INSPECTION L. MEASUREMENTS, EXAMINATIONS, AND DERIVED RESULTS SUPPORTED BY TABLES, GRAPHS, SKETCHES, OR PHOTOGRAPHS AS APPROPRIATE
- M. THE NAME, SIGNATURE, TITLE, AND IDENTIFICATION NUMBER, AS APPROPRIATE, OF THE FIELD INSPECTOR PERFORMING THE INSPECTION N. IDENTIFICATION OF SUBCONTRACTORS EMPLOYED TO CARRY OUT TESTS OR PARTS OF TESTS TESTS REPORTS
- LABORATORY TESTS AND MILL CERTIFICATIONS ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER OF RECORD. THESE REPORTS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
- 1. CONCRETE CYLINDERS 2. REINFORCING STEEL

5. CONCRETE ANCHORS

3. STRUCTURAL STEEL 4. CONCRETE MIXES

LISTED BELOW

SPECIAL INSPECTION BY A SPECIAL OR DEPUTY INSPECTOR FROM AN ACCREDITED, EOR APPROVED INSPECTION AGENCY AND WITH THE APPROPRIATE CURRENT MUNICIPAL LICENSES AND CERTIFICATIONS SHALL BE REQUIRED FOR THE TYPE OF WORK

- 8A CONTINUOUS INSPECTION REQUIRED FOR THE FOLLOWING: 1. DURING PLACEMENT OF REINFORCED CONCRETE WHERE THE STRUCTURAL DESIGN IS BASED ON F'C GREATER THAT 3,000 PSI AND THE TAKING TEST SPECIMENS. THE NUMBER OF AND FREQUENCY OF TAKING OF TEST SPECIMENS SHALL BE THE MINIMUM REQUIRED BY THE GOVERNING MUNICIPAL BUILDING CODE OR AS SPECIFIED BY THE APPROVED STRUCTURAL PLANS, WHICHEVER IS THE GREATER
- 2. DURING THE PLACEMENT OF REINFORCING STEEL AND PRE STRESS TENDONS UNLESS THE SPECIAL INSPECTOR HAS INSPECTED FOR CONFORMANCE WITH THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE.
- 3. DURING THE PLACEMENT OF REINFORCING STEEL AND CONCRETE FOR CAST-IN-PLACE DRILLED PILES OR CAISSONS. 4. INSPECTION IS REQUIRED ON CAST-IN-PLACE PILES OR CAISSONS, EVEN IF F'C IS LESS THAN 2.500 PSI. 5. PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS WHEN
- STRESS INCREASES PERMITTED BY FOOTNOTE 5 OF TABLE 19E, SECTION 1925 OF THE UNIFORM BUILDING CODE FOR THE USE OF FULL VALUES FOR EMBEDDED 6. PRIOR TO AND DURING THE INSTALLATION OF ANCHORS REQUIRING TO BE DRILLED INTO CONCRETE.
- 7. DURING THE STRESSING AND GROUTING OF TENDONS IN PRE STRESSED 8. CONTINUOUS INSPECTION FOR THE PLACEMENT OF THE REINFORCEMENT
- AND CONCRETE AT CONCRETE MOMENT FRAMES WITHIN SEISMIC ZONES 3 & 4 9. SHOT CRETE PLACEMENT AND DURING THE TAKING OF TEST SPECIMENS. PERIODIC INSPECTION FOR REINFORCED CONCRETE SHALL BE PERFORMED WHEN SPECIFIED. AS MINIMUMS: 1. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS
- AS REQUIRED, AND PROCEDURES WITH THE APPLICABLE CODES, PLANS AND SPECIFICATIONS. 2. REINFORCEMENT VERIFICATION PRIOR TO THE PLACEMENT OF CONCRETE 3. DURING THE PLACEMENT OF CONCRETE 4. DURING THE MOLDING, CONSTRUCTION OF TAKING OF COMPRESSION SAMPLES,
- BEAMS, CORES OR PANELS. 5. AT SUCH FREQUENCY AS NECESSARY TO CLEARLY CONFIRM THE PLACEMENT OF TIES. HOOPS, STIRRUPS, CONNECTIONS, AND ANY ADDITIONAL SPECIFIED REINFORCEMENT (I.E. @ OPENINGS, BEAMS, CORNERS, COLUMNS, PIERS, AND CAISSONS) BEFORE THEY ARE COVERED.
- 6. DURING SAMPLING OF CONCRETE AT DISCHARGE FROM MIXER. 7. BEFORE ANY CONCRETE IS PLACED FOR VERIFICATION OF MIX DESIGN 8. ALL FUNCTIONS AT THE BATCHING PLANT FOR READY MIX. THIS COULD INCLUDE CEMENT SAMPLING OR TEST RESULTS, GRAVEL GRADATION, CHECKING
- CALIBRATION OF EQUIPMENT AND ADMIXTURE APPROVALS. B. STRUCTURAL WELDING - GENERAL - INSPECTOR'S DUTIES 1. ALL FIELD WELDING NOT DONE IN AN APPROVED FABRICATORS SHOP EXCEPT THAT PERIODIC INSPECTION THE FREQUENCY OF WHICH IS DETERMINED PRIOR TO THE START OF THE PROJECT SHALL BE ALLOWED PER SECTION 1701.5,
- #5 EXCEPTIONS 2. DURING ALL FIELD WELDING OF SPECIAL MOMENT-RESISTING FRAMES; IN ADDITION, NONDESTRUCTIVE TESTING AS REQUIRED BY SECTION 1703. 3. THE SPECIAL INSPECTOR SHALL REVIEW EOR APPROVED WELDING PROCEDURES
- SPECIFICATIONS (WPS) WHEN OTHER THAN STANDARD AWS PRE QUALIFIED JOINTS AND PROCEDURES ARE INVOLVED. 4. THE SPECIAL INSPECTOR SHALL REVIEW APPLICABLE SECTION OF REFERENCED CODES, PARTICULARLY THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1) AND THE MANUAL. AND SPECIFICATIONS OF THE AMERICAN
- INSTITUTE OF STEEL CONSTRUCTION (AISC). 5. THE SPECIAL INSPECTOR SHALL REVIEW MILL TEST REPORTS AND CHECK HEAT NUMBERS WITH MATERIAL AS RECEIVED. VERIFY THAT PROPER IDENTIFICATION OF STEEL IS MAINTAINED DURING FABRICATION. 6. THE SPECIAL INSPECTOR SHALL, WHEN REQUIRED BY PROJECT SPECIFICATIONS.
- MARK SAMPLE LOCATION WITH STEEL STAMP ON EACH PIECE TESTED. 7. THE SPECIAL INSPECTOR SHALL RECORD SAMPLE NUMBER AND LOCATION AND CHECK THAT SAMPLE IDENTIFICATION IS MAINTAINED AS SAMPLES ARE DELIVERED TO LABORATORY AND TESTED. 8. THE SPECIAL INSPECTOR SHALL WHEN STEEL MEMBERS ARE DELIVERED TO FINISH AND NO "CROP ENDS" ARE AVAILABLE FOR SAMPLE CUTTING, COORDINATE
- CUTTING AND PATCHING REQUIREMENTS WITH THE ARCHITECT/ENGINEER 1. THE SPECIAL INSPECTOR SHALL CHECK EACH WELDER'S CERTIFICATION AND VERIFY THAT THE WELDER DOES WORK ONLY AS QUALIFIED BY HIS CERTIFICATION 2. THE SPECIAL INSPECTOR SHALL KEEP A WRITTEN RECORD OF EACH WELDER
- BY NAME, IDENTIFICATION NUMBER AND HIS IDENTIFYING STEEL MARK, IF APPLICABLE, AND THE PERCENTAGE OF REJECTABLE WELDS. 3. THE SPECIAL INSPECTOR SHALL UPON DETECTION OF REJECTABLE WELD (EITHER VISUALLY OR BY NONDESTRUCTIVE TEST), THE INSPECTOR OF RECORD WILL NOTIFY THE WELDER AND HIS FOREMAN FOR VERIFICATION OF DEFECT. THE INSPECTOR OF RECORD WILL OBSERVE REMOVAL,
- REWORK, OR REPAIRS. 4. THE SPECIAL INSPECTOR SHALL CHECK STRUCTURAL MEMBERS FOR THICKNESS ADJACENT TO WELDS, OPENING, ETC. REWORK, OR REPAIRS. 5. THE SPECIAL INSPECTOR SHALL INSPECT JOINTS FOR PROPER PREPARATION,
- INCLUDING BEVEL, ROOT FACES, ROOT OPENING, ETC. REWORK, OR REPAIRS. 6. THE SPECIAL INSPECTOR SHALL CHECK THE TYPE AND SIZE OF ELECTRODES TO BE USED FOR THE VARIOUS JOINTS, AND POSITIONS. CHECK THE STORAGE FACILITIES TO SEE IF THEY ARE ADEQUATE TO KEEP THE ELECTRODES DRY.
- INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIELD. 8. THE SPECIAL INSPECTOR SHALL VERIFY THE USE OF PROPER PREHEAT AND INTER PASS TEMPERATURES. INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIELD. 9. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINUOUS ALL VERTICAL REINFORCEMENT TO BE IN CONCRETE OR GROUT FILLED CELLS, PROVIDE INSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING AREA AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN 5. TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE

7. THE SPECIAL INSPECTOR SHALL OBSERVE THE TECHNIQUE OF EACH THE SPECIAL

AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERFORMED. 10. THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE OPERATOR IS CAPABLE OF PRODUCING THE REQUIRED WELDS. 11. THE SPECIAL INSPECTOR SHALL OBSERVE SINGLE PASS FILLET WELDS PERIODICALLY, 6. OR MORE OFTEN IF CODES AND SPECIFICATIONS REQUIRE.

THE INSPECTOR'S IDENTIFICATION STAMP. APPROVED METHODS WILL BE USED.

12. THE SPECIAL INSPECTOR SHALL, IF STRAIGHTENING OR RESTRAINING OF WELDMENTS IS NECESSARY, VERIFY THAT APPROVED METHODS WILL BE USED. 13. THE SPECIAL INSPECTOR SHALL TAG OR STAMP ACCEPTED WELDMENTS WITH

A. COMPACTED FILL, GRADING, AND EXCAVATIONS | X | B. CONTINUOUS INSPECTION OF PIERS A. CONTINUOUS INSPECTION AND TEST CYLINDERS FOR CONCRETE. X B. CONTINUOUS INSPECTION FOR SLAB CONCRETE C. TEST CYLINDERS FOR SLAB CONCRETE ANCHOR BOLTS OR EMBEDS IN CONCRETE (INSTALLATION AND CONCRETE PLACEMENT) A. ALL ADHESIVE ANCHORS, RODS, DOWELS, SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION. DRILLED B. ADDITIONAL TESTING MAY BE REQUIRED AS SPECIFIED ON THE PLANS. **ANCHORS** C. ADHESIVE ANCHORS IN CONCRETE OR MASONRY A. PLACING OF REINFORCING X REINFORCING STEEL B. SAMPLING AND TESTING STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL) A. ALL STRUCTURAL WELDING EXCEPT WELDING IN APPROVED B. ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS, AND FIELD WELDS. C. STRUCTURAL LIGHT GAGE METAL FRAME WELDING. D. REINFORCING STEEL WELDING | X | A. HIGH STRENGTH BOLT A325 & A490 (TORQUE VERIFICATION) B. HIGH STRENGTH BOLT A325N,X & A480N,X (SNUG CONTACT OF PLYS) A. SAMPLING OF MASONRY UNITS B. MASONRY PRISM CONSTRUCTION C. MORTAR SAMPLING D. CONTINUOUS INSPECTION DURING PLACEMENT AND GROUTING OF MASONRY UNITS AND REINFORCEMENT PLACEMENT. ANCHOR BOLTS OR EMBEDS IN MASONRY (INSTALLATION AND GROUT PLACEMENT) CONCRETE A. TEST CYLINDERS AND INSPECTIONS A. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE) B. SAMPLING AND TESTING DURING PLACEMENT OF PAINT AS SPECIFIED BY THE ARCHITECT. X

8A. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION:

REINFORCED CONCRETE MASONRY UNITS

OBSERVATION EMPLOY AN ENGINEER APPROVED BY THE EOR TO PERFORM

PRECAST CONCRETE, ETC.

STRUCTURAL OBSERVATION.

DIAPHRAGMS

- 1. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90. AND AS FOLLOWS: * UNIT COMPRESSIVE STRENGTH: 1900 PSI MINIMUM AVERAGE NET AREA COMPRESSIVE STRENGTH. * WEIGHT CLASSIFICATION: MEDIUM WEIGHT BLOCK f'c = 3000 PSI
- * MORTAR SHALL BE TYPE CONCRETE MASONRY ASSEMBLAGE (f'm) SHALL BE 1500 PSI 2. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL AND SHALL CONFORM TO ASTM A-615. GRADE 60. REINFORCING BARS #3 AND SMALLER MAY BE GRADE 40.

A. INSPECTION OF SHEATHING PLACEMENT AND NAIL SPACING

STRUCTURAL OBSERVATIONS REQUIRED. WHEN REQUIRED BY THIS

APPROVED | APPROVED FABRICATORS: MUST SUBMIT CERTIFICATE OF COMPLIANCE

FABRICATORS FOR ALL OFF SITE FABRICATION SUCH AS STRUCTURAL STEEL GLU-LAMS

STRUCTURAL ENGINEER OR THE BUILDING DEPARTMENT, THE CONTRACTOR SHALL

٥.		ALLOWED.		CISU I TPE I, LOW A	LKALI, WASONKY	CEMENTS
4.						
	C	CMU	VERTICAL	HORIZONTAL	OPENINGS AND DOWELS	CORNER
	7///	8"	#6 AT 32" O.C.	#5 AT 96" O.C.	(2) #5	(3) #5
		6"	#4 AT 48" O.C.	#4 AT 96" O.C.	(1) #4	(3) #4
	\longrightarrow	12"	(2) #6 AT 16" O.C.	(2) #5 AT 96" O.C.	(2) #6	(3) #6

- INDICATES CMU WALL/COLUMN/PILASTER REINFORCED PER DETAIL 1/S402 DOWELS FROM FOUNDATION, SAME SIZE AND SPACING. TYPICAL HORIZONTAL REINFORCEMENT SHALL BE TWO (2) #5 CONTINUOUS IN 8"x16" DEEP CONTINUOUS CONCRETE FILLED BOND BEAM BELOW EACH FLOOR AND ROOF LEVEL UNLESS NOTED OTHERWISE. PROVIDE STANDARD DUR-O-WALL TRUSS-TYPE REINFORCING OR REVIEWED EQUIVALENT EVERY OTHER COURSE (16" ON CENTER) AND AS PER MANUFACTURER'S RECOMMENDATIONS. (9 GAGE MINIMUM GALVANIZED)
- A CLEAR, UNOBSTRUCTED CONTINUOUS VERTICAL. 7. WALL LENGTHS LESS THAN OR EQUAL TO FOUR (4) TIMES ITS THICKNESS SHALL BE CONSIDERED COLUMN SECTIONS AND SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING IN FILLED CELLS, PROVIDE 1/4 INCH DIAMETER TIES EVERY COURSE (8" ON CENTER) IN LIEU OF DUR-O-WALL REINFORCING, PLACE TIES NOT LESS THAN 1 1/2" NOR MORE THAN 5" FROM THE SURFACE OF THE COLUMN. 8. ALL CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE FILLED SOLIDLY WITH PEA

VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN

- GRAVEL CONCRETE (3/8" MAX. AGGREGATE SIZE) OR GROUT, EACH WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, GROUT OR CONCRETE SHALL BE A WORKABLE MIX SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED, GROUT OR CONCRETE SHALL BE PLACE BY PUMPING OR AN APPROVED ALTERNATE METHOD AND SHALL BE PLACED BEFORE INITIAL SET OR HARDENING OCCURS. GROUTING SHALL BE PER NCMA TEK 3-2 9. ALLOW C.M.U. WALLS TO SET AT LEAST 24 HOURS AFTER COMPLETION BEFORE GROUTING,
- GROUT OR CONCRETE SHALL BE CONSOLIDATED BY RESOLIDATION AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY IS LOST, THE FILLING OF ANY SECTION OF A WALL SHALL BE COMPLETED IN ONE DAY WITHOUT INTERRUPTIONS GREATER THAN ONE HOUR, AND PLACED IN LAYERS OF 4 FEET MAXIMUM. 10. WHERE THE CONCRETE OR GROUT POUR EXCEEDS 4 FEET IN HEIGHT, CLEANOUTS SHALL
- BE PROVIDED BY SUITABLE OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE FILLED, OR OTHER APPROVED LOCATIONS, THE CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE BEING FILLED. 11. WHEN CELL FILLING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION
- JOINT SHALL BE FORMED BY STOPPING THE POUR OF CONCRETE OR GROUT APPROXIMATELY 1/2 INCH ABOVE OR BELOW BED JOINT. 12. END WALLS AND CROSS WEBS FORMING CELLS TO BE FILLED SHALL BE FULL BEDDED IN MORTAR TO PREVENT LEAKAGE OF CONCRETE OR GROUT UNLESS WALL IS TO BE

POURED SOLID.

A. PREINSTALLATION CONFERENCE:

FIVE DAYS OF THE MEETING.

- 13. PROVIDE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 24' (10' FROM CORNERS. DO NOT CONTINUE THE TYPICAL TRUSS TYPE JOINT REINFORCEMENT THROUGH THE JOINT. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE JOINT. 14. DURING ERECTION, COVER TOP OF WALLS, PROJECTIONS AND SILLS WITH WATERPROOF SHEATHING AT THE END OF EACH DAY'S WORK.
- 1. AT LEAST 15 DAYS PRIOR TO THE START OF THE MASONRY CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS, MATERIALS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED MASONRY 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 PARTY CONCERNED WITH THE MASONRY 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 AND SPECIAL INSPECTOR
- C) READY-MIX CONCRETE PRODUCER D) MASONRY SUBCONTRACTOR 3. 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

INSPECTION TASK YES NO N/A (MONITOR MATERIAL AND WORKMANSHIP TO ASSURE CONTRACT DOCUMENTS ARE BEING FOLLOWED) AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. PROPORTIONS OF SITE PREPARED MORTAR. B. CONSTRUCTION OF MORTAR JOINTS. C. LOCATION OF REINFORCEMENT AND CONNECTORS THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. B. TYPE, SIZE AND LOCATION OF DOWELS, ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES AND OTHER CONSTRUCTION C. CHECK GROUT MIX FOR COMPLIANCE WITH CODE AND SPECIFICATIONS. D. WELDING OF REINFORCING BARS. E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40 °F) OR HOT WEATHER (TEMP, ABOVE 90 °F). . CUTTING OF CLEAN OUT HOLES, KNOCKING DOWN OF FINS AND REMOVAL OF DEBRIS G. VERIFY THAT MATERIALS ARE PROPERLY STORED. H. VERIFY THE LOCATION OF THE CONTROL JOINTS. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN. R PLACEMENT OF REINFORCEMENT AND CONNECTOR. (CHECK CLEARANCE, LAP SPLICES, STAGGER AND OFFSETS) C. CHECK GROUT MIX FOR COMPLIANCE WITH CODE AND SPECIFICATIONS. D. CONSTRUCTION OF MORTAR JOINTS. E. CHECK INSTALLATION OF CLEAN OUT CLOSURE. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS. (SUCH AS MECHANICAL VIBRATION DURING PLACEMENT AND LATER DURING RECONSOLIDATION.) PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED. CHECK THAT CURING REQUIREMENTS ARE BEING FOLLOWED VERIFY PLACEMENT OF ANCHORS INTO CONCRETE MASONRY FREQUENCY OF TESTS: A. CONCRETE MASONRY UNIT TEST- FOR EACH TYPE, CLASS, AND GRADE OF CONCRETE MASONRY UNIT INDICATED, TEST UNITS BY METHOD OF SAMPLING AND TESTING OF ASTM C140. ONE SET OF CMU STANDARD PRISM TEST SHALL BE CONDUCTED FOR EVERY 5,000 SQ. FT. OF WALL DURING CONSTRUCTION IN ACCORDANCE TO ASTM C1314, BUT NOT LESS THAN ONE SET OF 3 MASONRY PRISMS FOR THE B. MORTAR TEST: FOR EACH TYPE INDICATED, TEST MORTAR BY METHODS OF SAMPLING AND TESTING OF ASTM C780. CONDUCT TESTS NO LESS FREQUENTLY THAN THAT REQUIRED TO EVALUATE MORTAR USED TO INSTALL EACH INCREMENT OF MASONRY UNITS INDICATED ABOVE FROM WHICH SAMPLES ARE TAKEN FOR TESTING. TEST MORTAR FOR EVERY 1.500 SQ. FT. OF WALL CONSTRUCTION. C. GROUT TEST: AT START OF GROUTING OPERATION, TAKE ONE TEST PER DAY FOR FIRST 3 DAYS. EACH GROUT TEST CONSISTS OF THREE SPECIMENS MADE IN ACCORDANCE WITH ASTM C1019. AFTER FIRST THREE TESTS, SPECIMENS FOR CONTINUING QUALITY CONTROL SHOULD BE TAKEN ONCE A WEEK FOR EVERY 25 CUBIC YARDS OF GROUT OR FOR EVERY 2,500 SQ. FT. OF WALL, WHICHEVER COMES FIRST MASONRY TESTING REQUIREMENTS TESTING METHOD PRIOR TO CONSTRUCTION CONSTRUCTION OPTIONS METHOD 1: PRISMS FOR EVERY 5 PRISMS MASONRY PRISM 5.000 S.F. OF WALL METHOD 2: APPROVED 30 PRISM PRISMS FOR EVERY MASONRY PRISM TEST RECORD RECORD 5,000 S.F. OF WALL

STRUCTURAL MASONRY (SPECIAL INSPECTION)

PERIODIC INDICATES AT A MINIMUM ONCE A DAY FOR A MINIMUM OF ONE HOUR

UNITS AND GROUT

UNITS AND GROUT OR

3 PRISMS FOR EVERY

5,000 S.F. OF WALL

METHOD 3:

METHOD

UNIT STRENGTH

OPEN WEB STEEL JOISTS

1. ALL STEEL FOR JOISTS SHALL CONFORM TO THE STEEL JOIST INSTITUTE REQUIREMENTS FOR K-SERIES OPEN WEB JOISTS, AND VS-SERIES STEEL JOISTS, MINIMUM 50,000 PSI YIELD . ALL STEEL JOISTS SHALL RECEIVE MANUFACTURER'S STANDARD BASE PAINT, APPLIED BY DIPPING OR SPRAYING, BEFORE LEAVING THE SHOP ALL STEEL JOISTS BEARING ON STEEL SHALL HAVE A MINIMUM 2 1/2" BEARING LENGTH AND SHALL BE WELDED TO THE STEEL WITH 2 WELDS AT EACH END, EACH 2 1/2" LONG. JOIST BEARING LESS THAN 2 1/2" SHALL BE DESIGNED BY THE JOIST SUPPLIER TO RESIST THE INCREASED STRESS. THE JOIST SUPPLIER SHALL SPECIFY SPECIAL JOIST SEATS AND ANCHORAGE REQUIREMENTS FOR DEFICIENT BEARING

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- PROVIDE 2"x2"x1/4" ANGLE BOTTOM CHORD EXTENDS AT STEEL JOIST END AT COLUMN LINES OR AT JOIST NEAREST COLUMN LINES. CHECK ARCHITECTURAL PLANS IF BOTTOM CHORD EXTENSIONS ARE REQUIRED. BOTTOM CHORD EXTENDED ENDS SHALL NOT BE INSTALLED UNTIL AFTER ROOF HAS BEEN COMPLETELY INSTALLED
- . ROOF TOP A/C UNITS SHALL HAVE AN OPERATING WEIGHT NOT TO EXCEED 500 LBS. AND SHALL BE LOCATED OVER A MINIMUM OF 2 JOISTS. ROOF TOP UNITS WEIGHING MORE THAN 500 LBS. SHALL BE LOCATED AS SHOWN ON THE MECHANICAL PLANS. . STEEL JOISTS TO BE DESIGNED PER DESIGN CRITERIA.
- 9. ALL STEEL JOISTS SHALL BE MANUFACTURED BY VULCRAFT OR SMI, UNLESS OTHERWISE APPROVED BY THE ENGINEER. 10. PROVIDE ANGLES FOR SUPPORT AROUND OPENINGS AT METAL DECK.
- 11. STEEL JOIST SUPPLIER TO VERIFY THAT THE SPECIFIED JOIST MEET ALL THE MINIMUM REQUIREMENTS OF SJI BEFORE PROVIDING A BID. 12. MECHANICAL EQUIPMENT: SEE MECHANICAL PLANS. PIPES AND MECHANICAL EQUIPMENT

13. WHERE STEEL JOIST PASS THROUGH CMU WALLS, PROVIDE HALF INCH GAP BETWEEN THE

SHALL BE SUPPORTED BY THE TOP CHORD OF THE STEEL JOISTS ONLY.

CMU AND STEEL JOIST. PROVIDE ELASTOMERIC MATERIAL BETWEEN THE STEEL JOIST AND 14. PROVIDE CLOSURE ANGLE 3x3x3/8 AT ALL PERIMETER CONDITIONS TO FRAME OUT ALL ROOF PENETRATIONS UNLESS NOTED OTHERWISE. 15. JOISTS SHALL ALSO BE DESIGNED FOR AN ADDITIONAL 500 LB CONCENTRATED LOAD PLACED

FLOOR METAL DECK

- . SHEET METAL: ASTM A446, GRADE A, MATERIAL: **GALVANIZING:** G90 ZINC COATED ACCORDING TO ASTM A525 DECK PROFILE 0.6 INCHES PROFILE DEPTH: GAUGE: 26 SPAN
- 2. ATTACHMENT: #12 TEK SCREWS AT SUPPORTS: FASTENER LAYOUT AT SIDE LAPS: #10 TEK SCREWS

AT ANY POINT. THE MAXIMUM DEFLECTION SHALL BE L/600.

- 4 FASTENERS PER SPAN SIDE LAPS TOPPING: WEIGHT: NORMAL WEIGHT CONCRETE STRENGTH 6 INCHES SLUMP
- SPACED AT 15 FEET MAXIMUM AND OVER BEAMS CONTROL JOINTS THICKNESS t= 2 1/2 INCH THICKNESS (TOTAL 3 INCH 6x6-W2.9xW2.9 REINFORCEMENT

4. INSTALL DECK ENDS OVER SUPPORTING FRAMING WITH A MINIMUM END BEARING

OF1.5" WITH END JOINTS LAPPED AT A MINIMUM OF TWO INCHES AND SHALL OCCUR

- OVER SUPPORTS. 5. SCREWS MUST BE INSTALLED USING PROPERLY CALIBRATED TOOLS TO AVOID OVERDRIVING WHICH CAN STRIP THE THREADS AT SIDE LAPS OR SEVER THE SCREW WHEN IT IS PLACED INTO HEAVIER SUBSTRATE.
- 6. WELDING OF METAL DECKING NOT ALLOWED. ALL METAL DECKING THAT HAS BEEN WELDED SHALL BE REMOVED AT CONTRACTORS EXPENSE. REMOVED METAL
- DECK UNITS SHALL BE 3 OR MORE SPANS AND SHALL BE ATTACHED TO THE STRUCTURAL SUPPORT

ROOF METAL DECK

DECKING SHALL NOT BE USED.

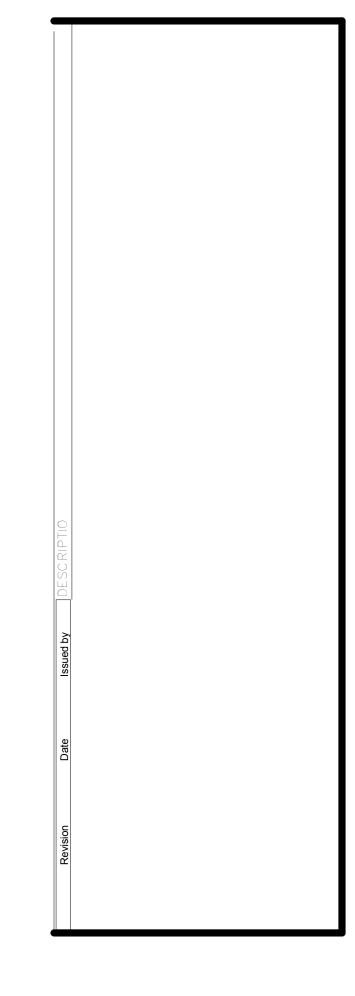
- SHEET METAL ASTM A446. GRADE A. MATERIAL G90 ZINC COATED. ACCORDING TO ASTM A525 GALVANIZING: DECK PROFILE PROFILE DEPTH: 1.5 INCHES GAUGE: 22 (20 East of Harlingen) SPAN
- 2. ATTACHMENT: AT SUPPORTS: 5/8" PUDDLE WELDS FASTENER LAYOUT 36/7 (9" AT PERIMETER) AT SIDE LAPS: #10 TEK SCREWS 9 FASTENERS PER SPAN SIDE LAPS
- . INSTALL DECK ENDS OVER SUPPORTING FRAMING WITH A MINIMUM END BEARING OF1.5" WITH END JOINTS LAPPED AT A MINIMUM OF TWO INCHES AND SHALL OCCUR
- OVER SUPPORTS. 4. SCREWS MUST BE INSTALLED USING PROPERLY CALIBRATED TOOLS TO AVOID OVERDRIVING WHICH CAN STRIP THE THREADS AT SIDE LAPS OR SEVER THE SCREW WHEN IT IS PLACED INTO HEAVIER SUBSTRATE.
- 5. DECK UNITS SHALL BE 3 OR MORE SPANS AND SHALL BE ATTACHED TO THE STRUCTURAL SUPPORT



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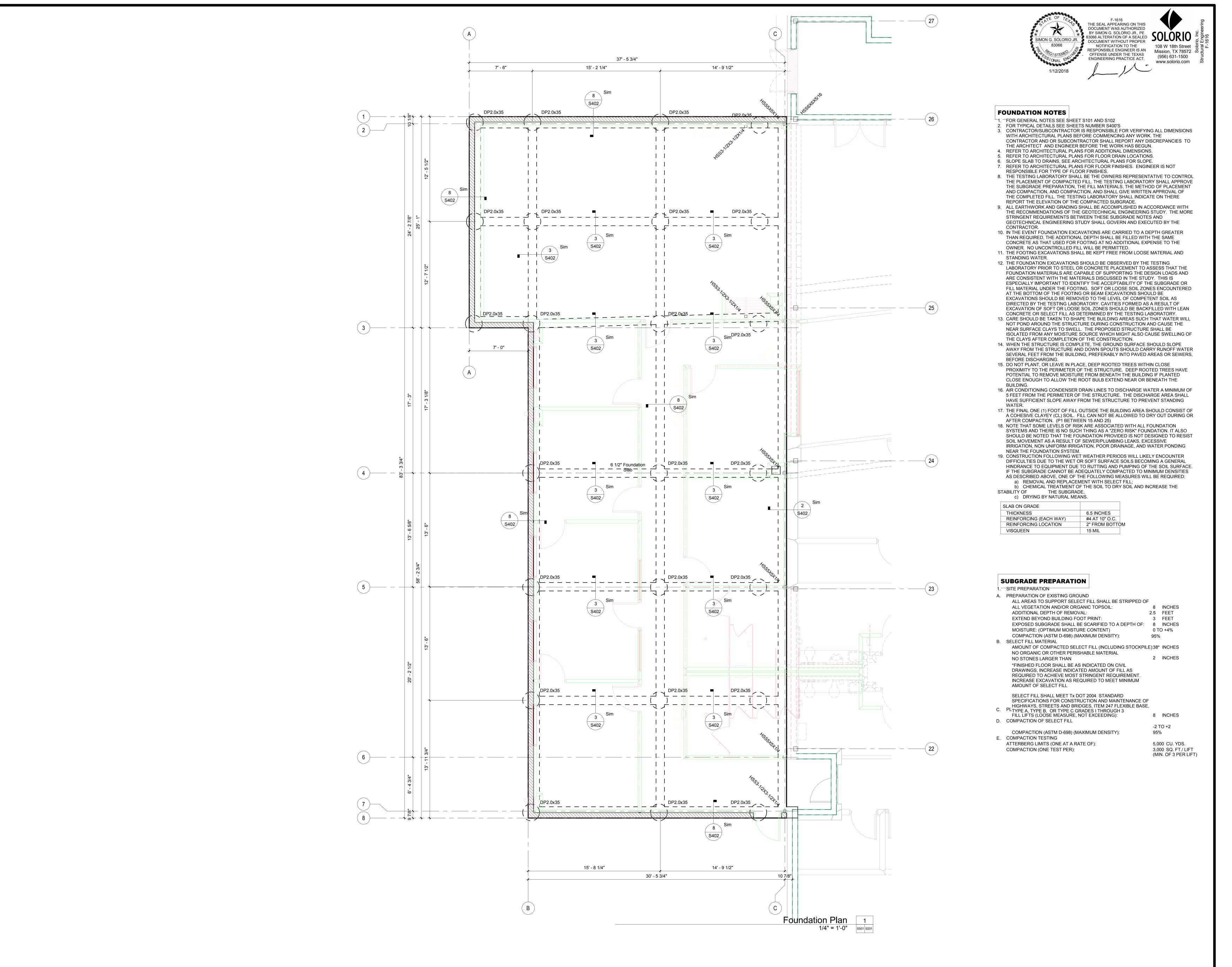


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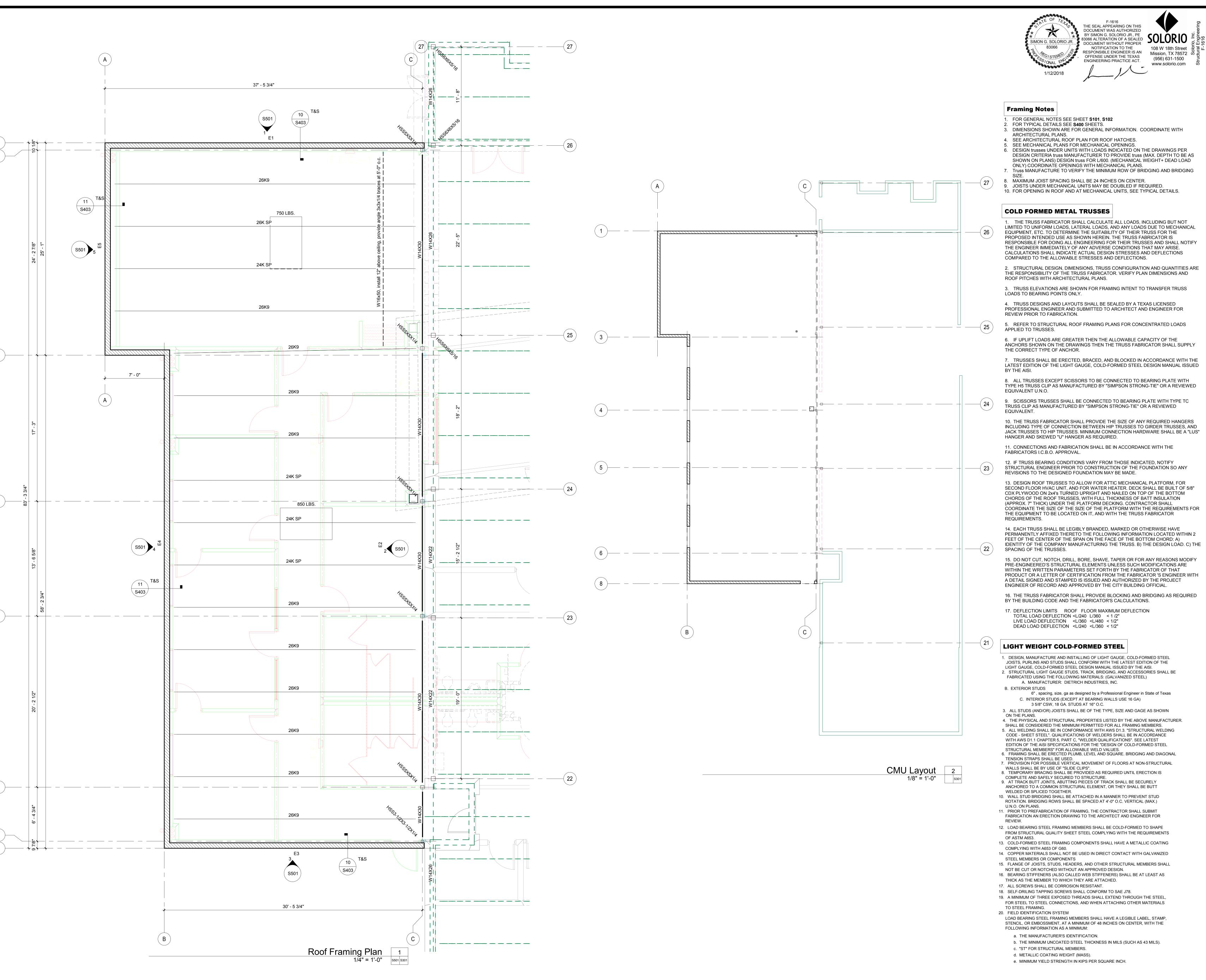
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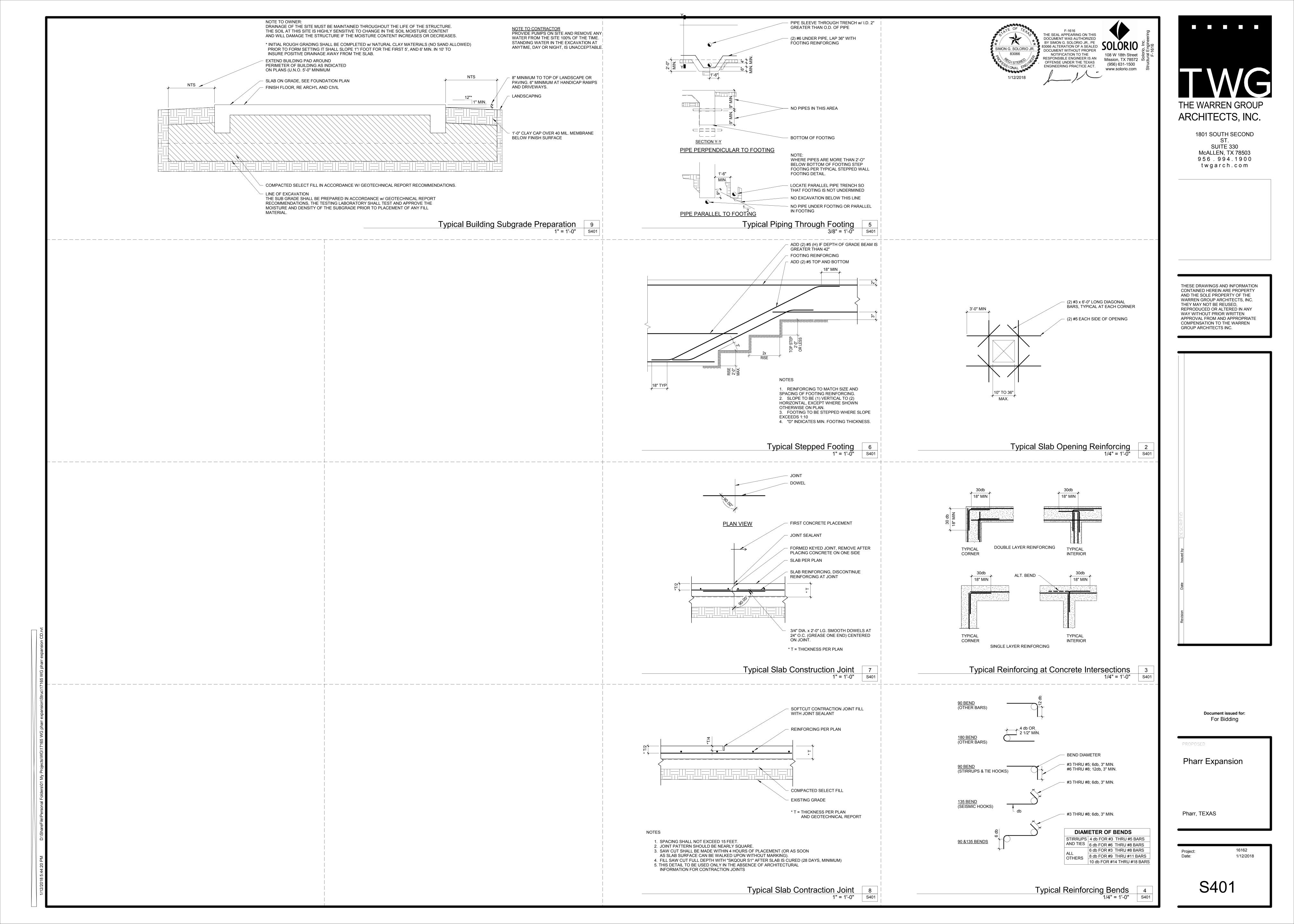
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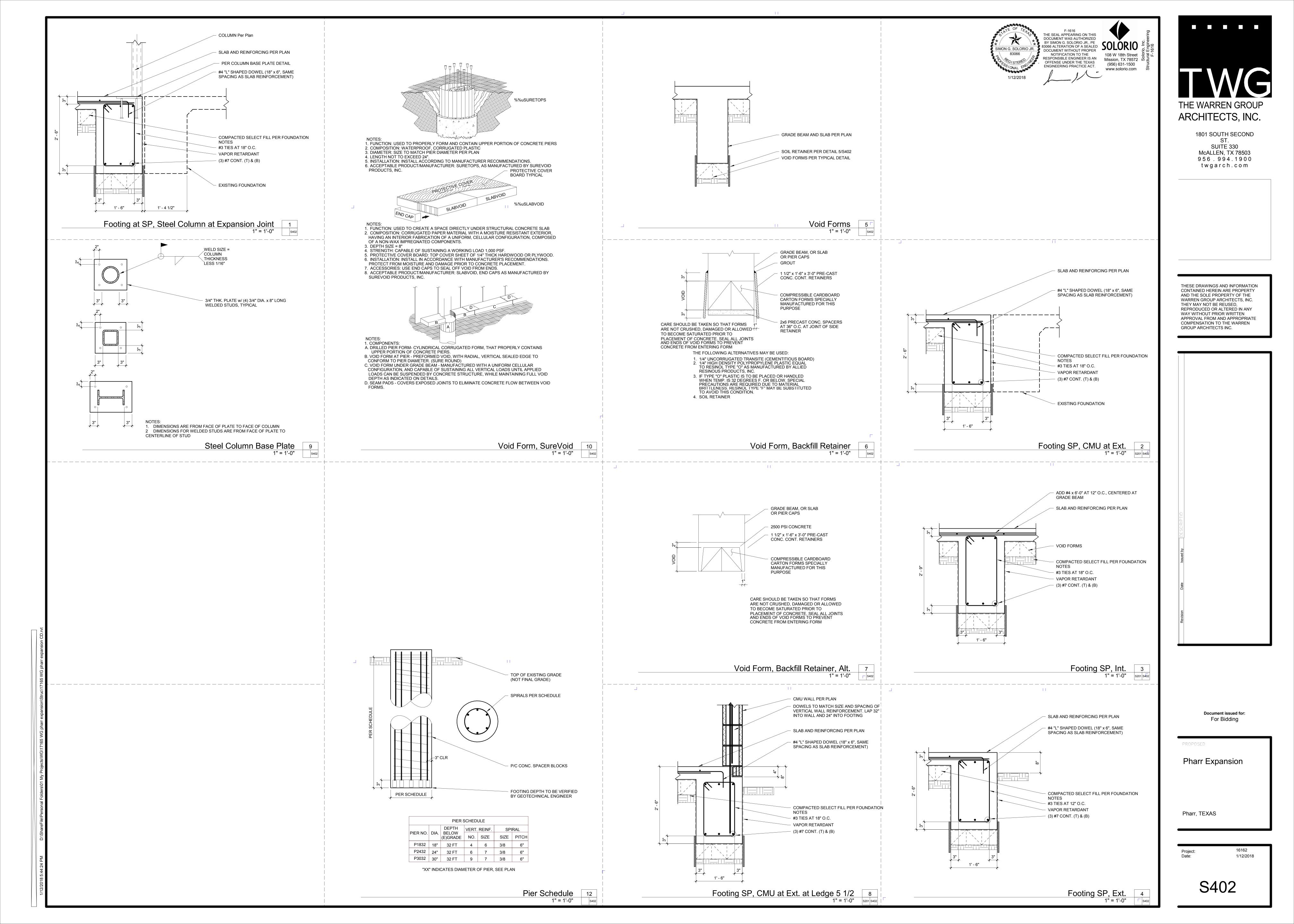
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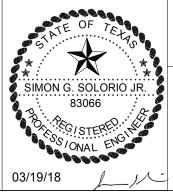




PIER SCHEDULE						
PIER NO. DIA.	DEPTH	VERT. REINF.		SPIRAL		
	DIA.	BELOW (E)GRADE	NO.	SIZE	SIZE	PITCH
P1832	18"	32 FT	4	6	3/8	6"
P2432	24"	32 FT	6	7	3/8	6"
DP2.0X35	24"	35 FT	6	7	3/8	6"

"XX" INDICATES DIAMETER OF PIER, SEE PLAN

SOLORIO



Pharr Expansion

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Solorio, Inc. Structural Engineering F-1616

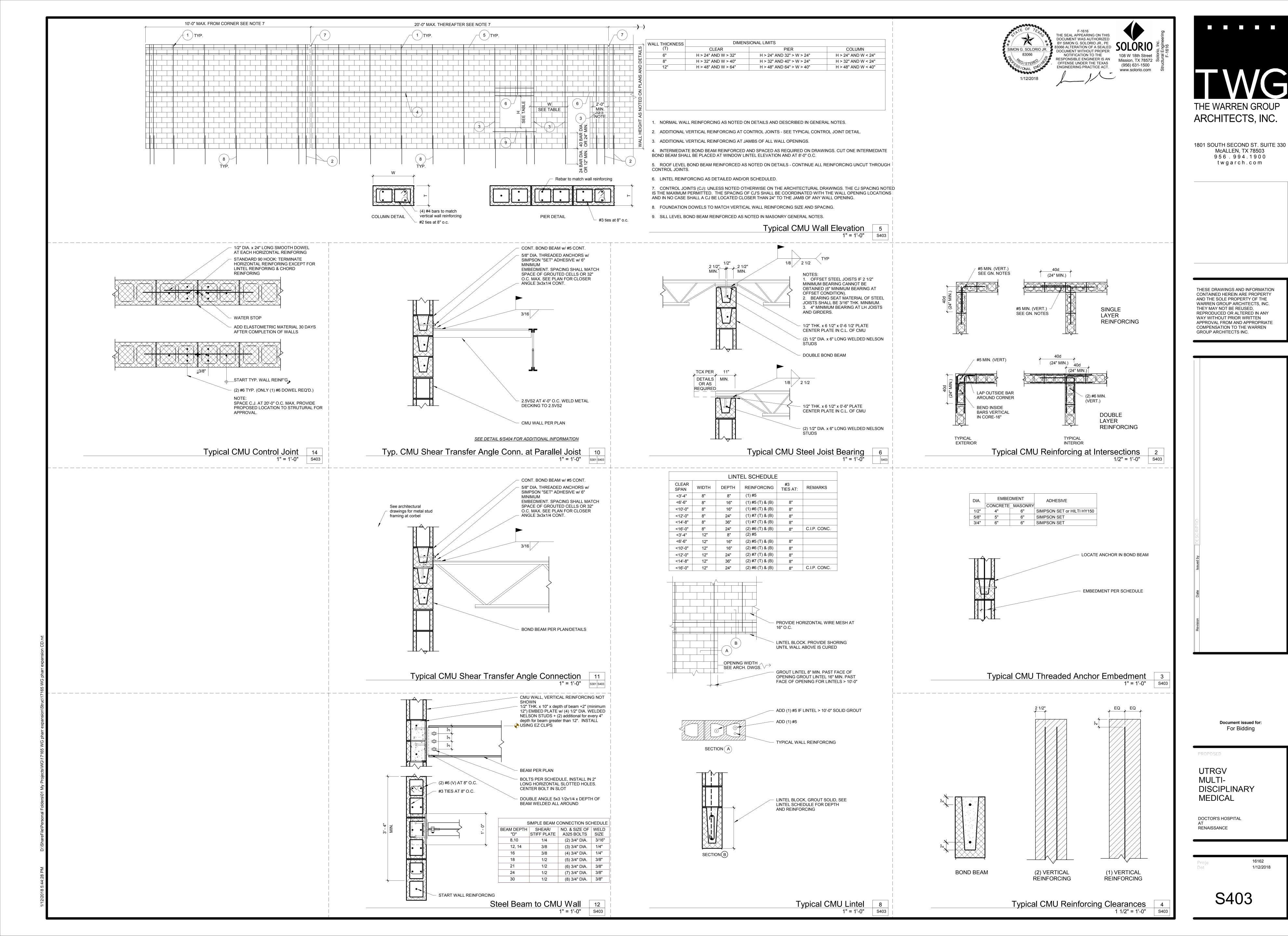
108 W 18th Street Mission, TX 78572 (956) 631-1500 www.solorio.com

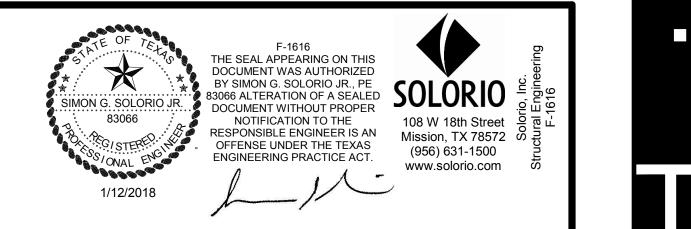
Revised Pier Schedule

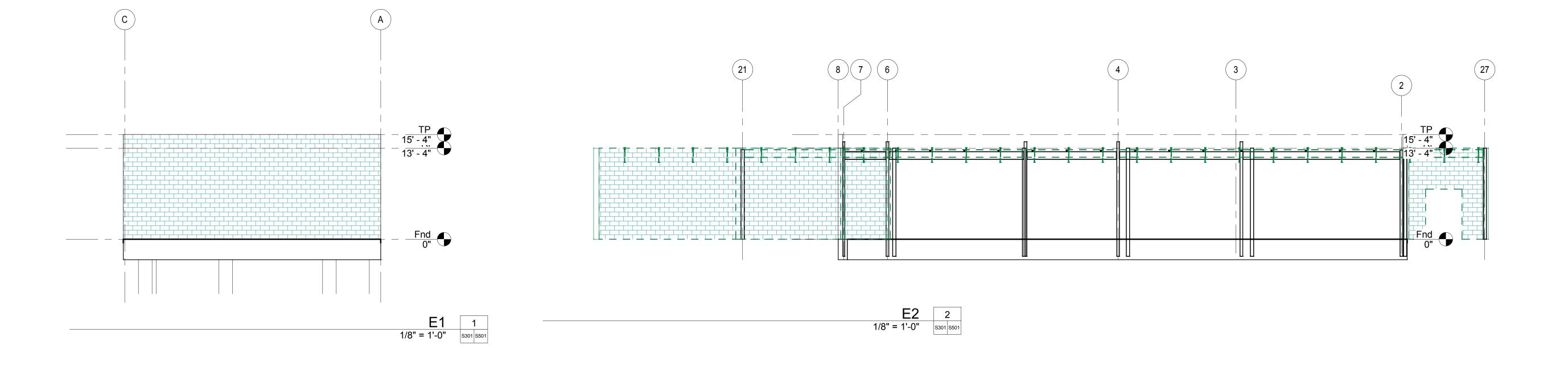
Revision

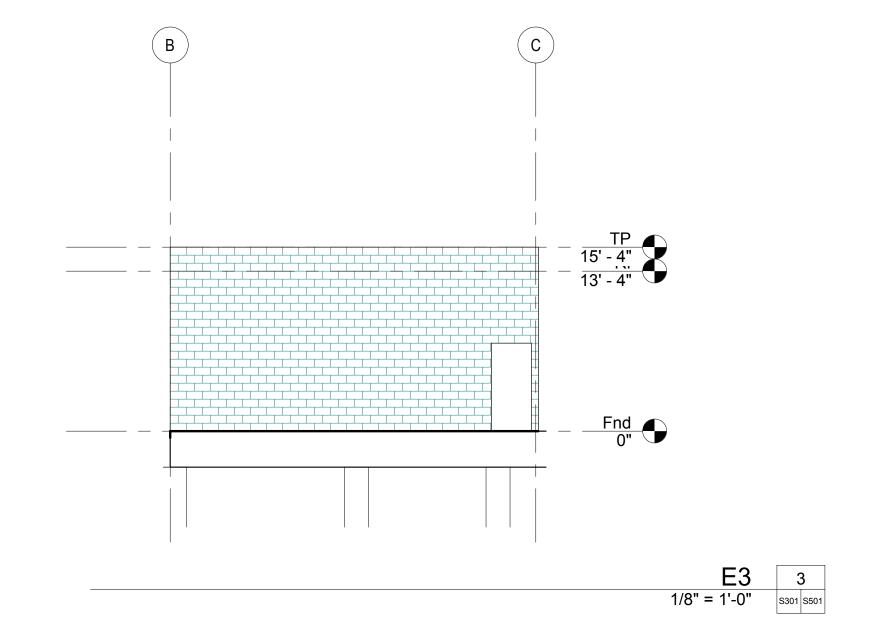
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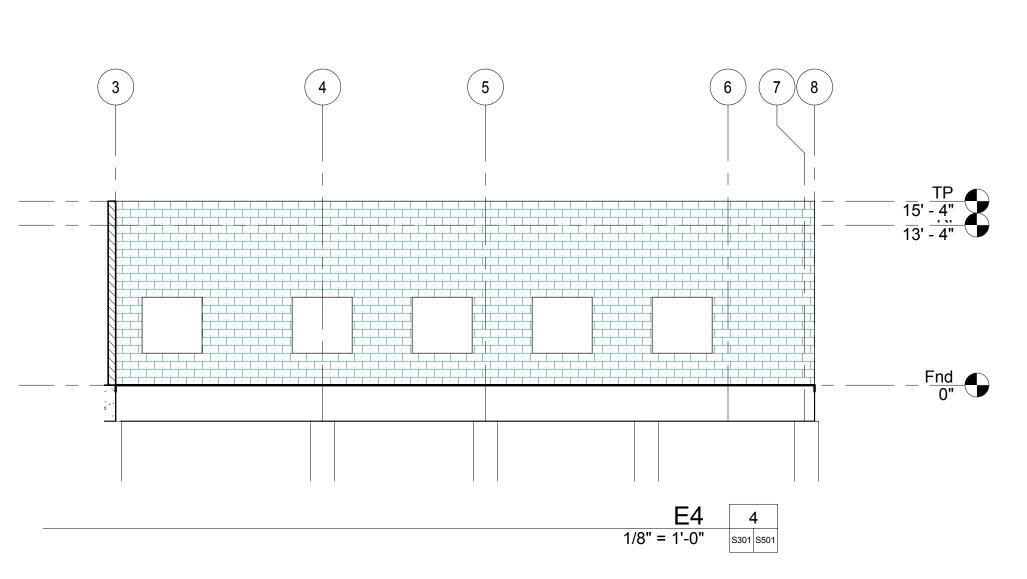
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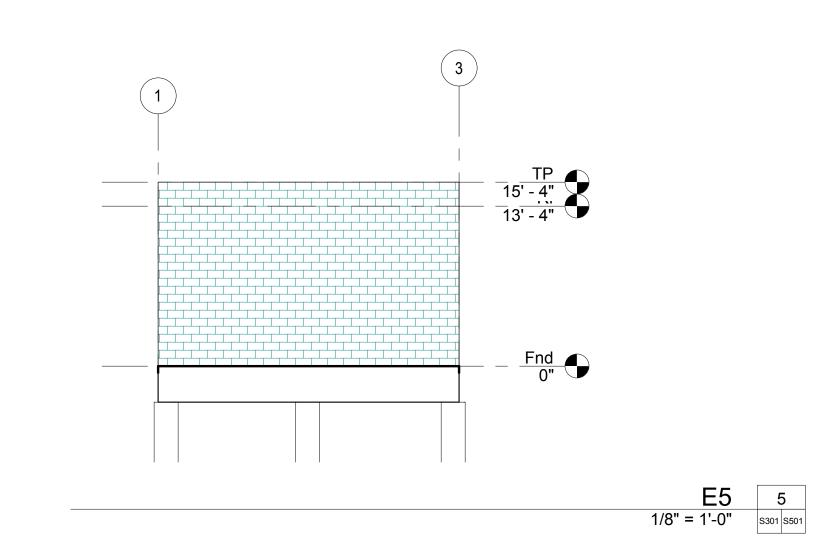












THE WARREN GROUP ARCHITECTS, INC.

1801 SOUTH SECOND ST. SUITE 330 McALLEN, TX 78503 9 5 6 . 9 9 4 . 1 9 0 0 t w g a r c h . c o m

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Revision Date Issued by DESCRIPTIO

Document issued for: For Bidding

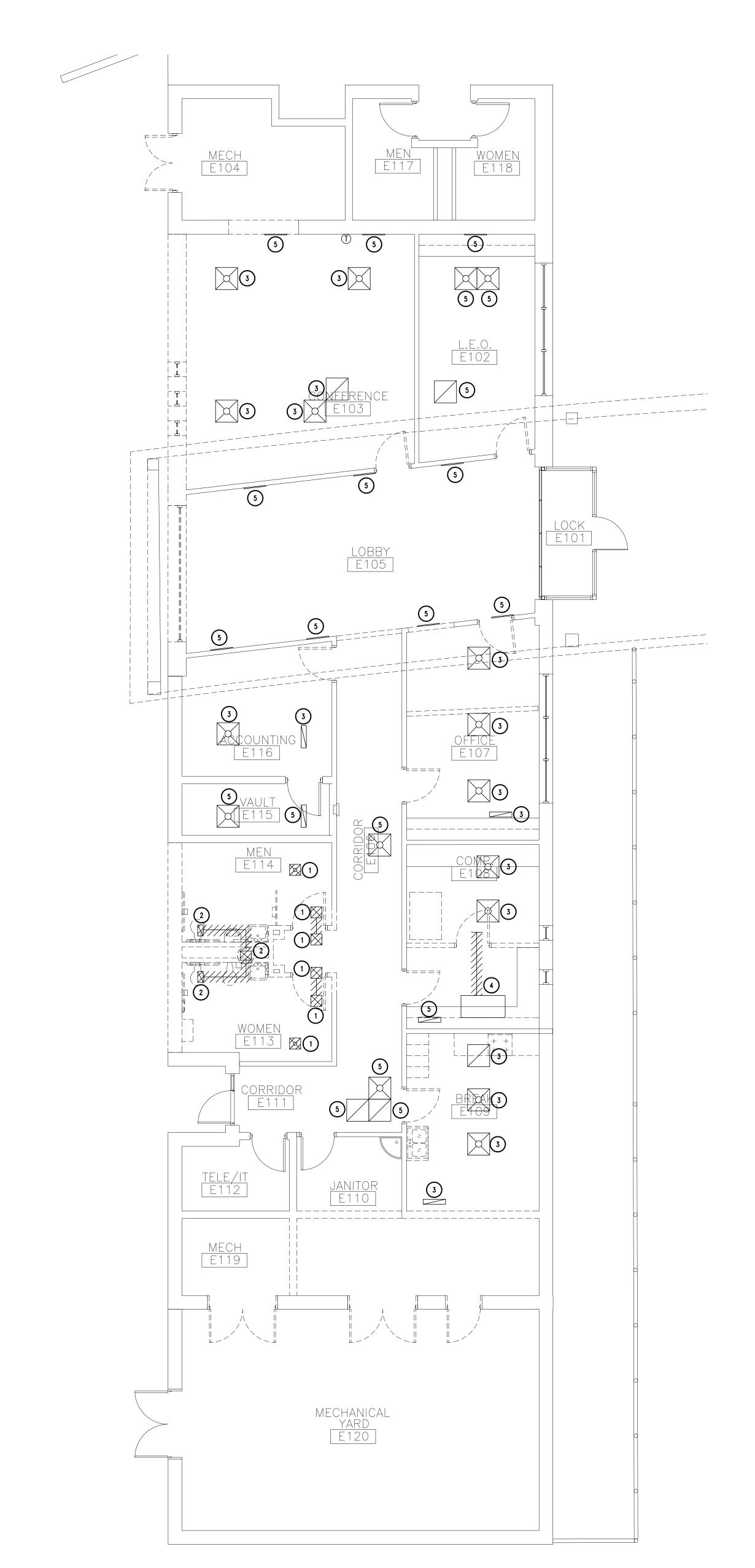
Pharr Expansion

Pharr, TEXAS

PROPOSED

Project:

1/12/20





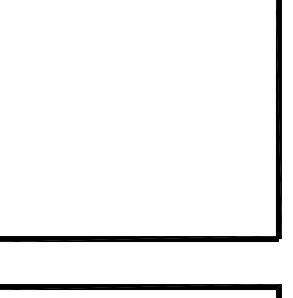
- A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.
- B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.
- C. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.
- D. CONTRACTOR SHALL REMOVE AND RELOCATE ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER SPECIFIED LOCATION(S). OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC. SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR.
- E. EXISTING MECHANICAL EQUIPMENT CHARGED WITH REFRIGERANT AND SCHEDULED FOR REMOVAL OR DEMOLITION SHALL BE DISPOSED OF IN A LEGAL MANNER.

DEMOLITION KEY NOTES:

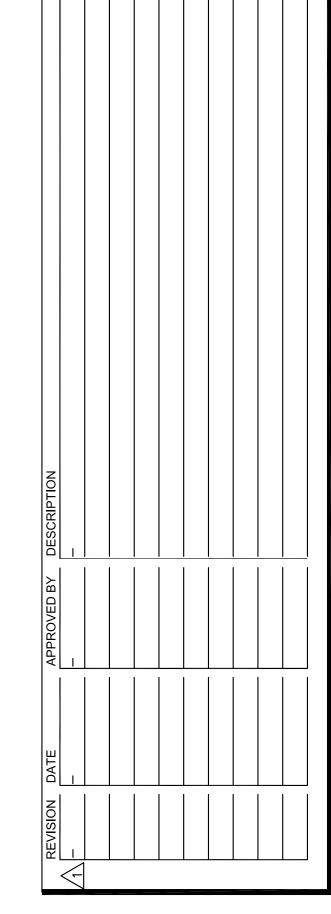
- (1) REMOVE EXISTING AIR DEVICES AND ASSOCIATED DUCTWORK. (2) REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND AIR DEVICES. 3 EXISTING AIR DEVICE TO BE RELOCATED. REFER TO MECHANICAL PLAN FOR RELOCATION.
- 4) EXISTING AIR HANDLING UNIT TO REMAIN. EXISTING DUCTWORK TO BE REMOVED. 5 EXISTING AIR DEVICE TO REMAIN.



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CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

MEP SOLUTIONS ENGINEERING DEMO - MECHANICAL MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727

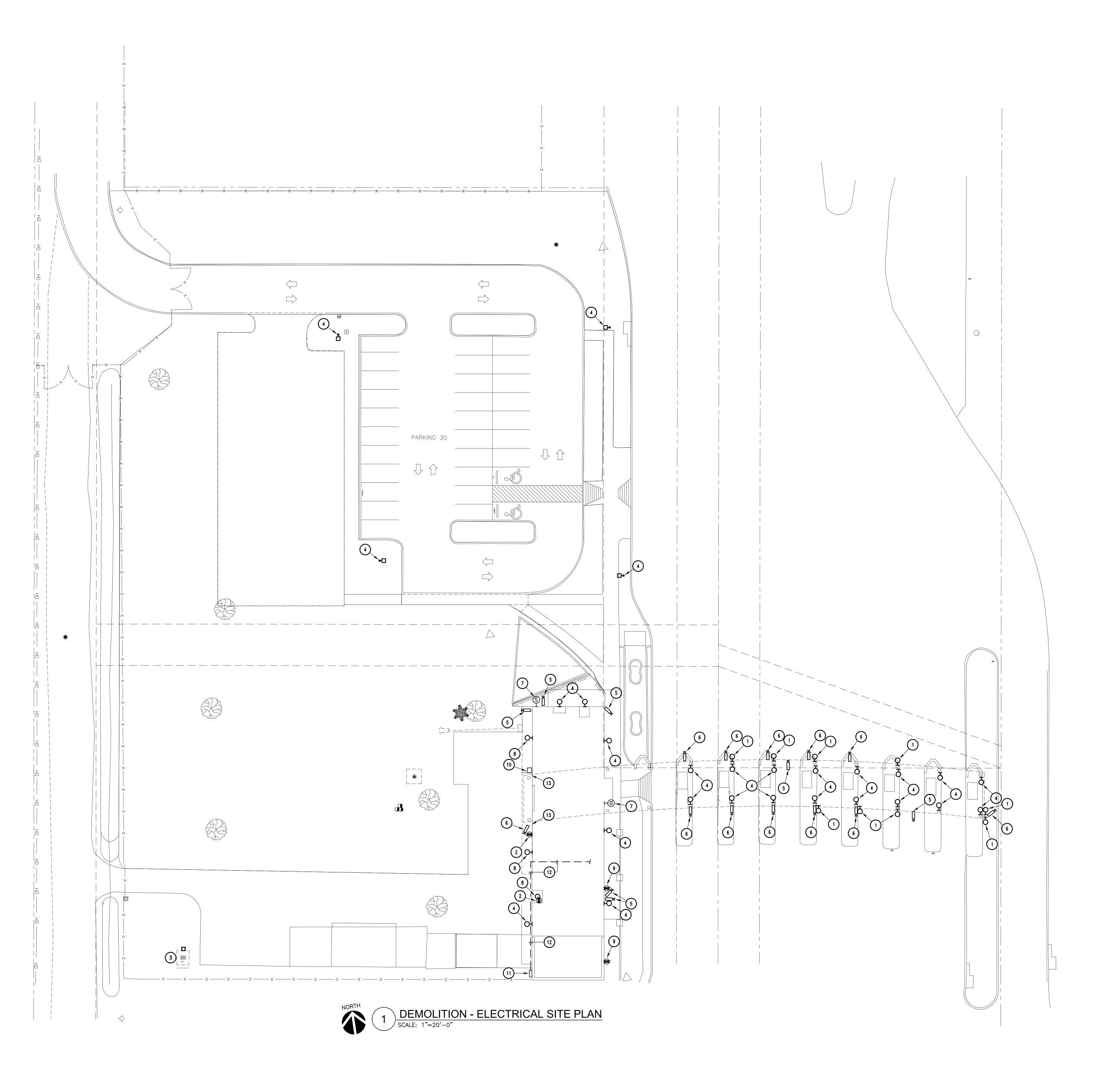
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

971704 1/12/2018 DM1.01

FLOOR PLAN

DEMO - MECHANICAL FLOOR PLAN

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



GENERAL

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- F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.
- G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.
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- I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.
- J. CONDUITS IN EXISTING WALLS MAY REMAIN. REMOVE CONDUCTORS AND CUT OF AT CLOSEST ACCESSIBLE POINT ABOVE CEILING.
- K. ELECTRICAL CONTRACTOR SHALL FURNISH \$10,000.00 ALLOWANCE FOR RE-ROUTING OF EXISTING CONDUITS PER KEY NOTES #12 AND #13.

DEMOLITION KEY NOTES:

- 1) EXISTING EXTERIOR LIGHTING FIXTURE SHALL BE REMOVED AND EXTEND TO NEW LOCATION.
- 2 EXISTING EXTERIOR RECEPTACLES SHALL BE REMOVED.
- (3) EXISTING UTILITY COMPANY TRANSFORMER AND METER TO REMAIN. (4) EXISTING EXTERIOR LIGHTING SHALL REMAIN.
- (5) EXISTING EXTERIOR CAMERA SHALL REMAIN.
- (6) EXISTING CAMERA TO BE REMOVED AND EXTEND TO NEW LOCATION.
- 7 EXISTING EXTERIOR SPEAKER TO REMAIN.
- (8) EXISTING EXTERIOR LIGHTING SHALL TO BE REMOVED.
- (9) EXISTING EXTERIOR RECEPTACLES TO REMAIN. EXISTING ANTENNA SHALL BE REMOVE AND RELOCATED. COORDINATE WITH ARCHITECT/OWNER FOR NEW LOCATION OF ANTENNA.
- (11) EXISTING BOX WITH FIBER TO REMAIN.
- (12) EXISTING 2-1/2" CONDUITS SHALL BE RELOCATED.
- (13) EXISTING CONDUITS SHALL BE RELOCATED.

FIELD VERIFY ALL CONDITIONS DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

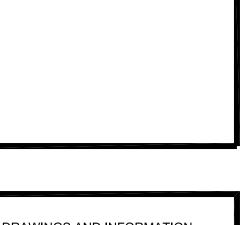
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WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

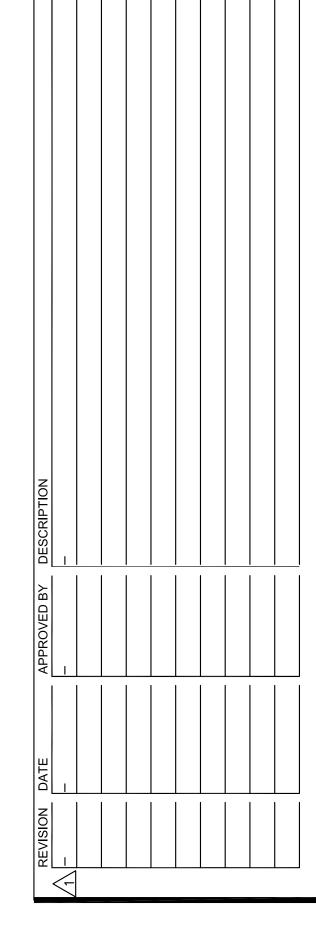
BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



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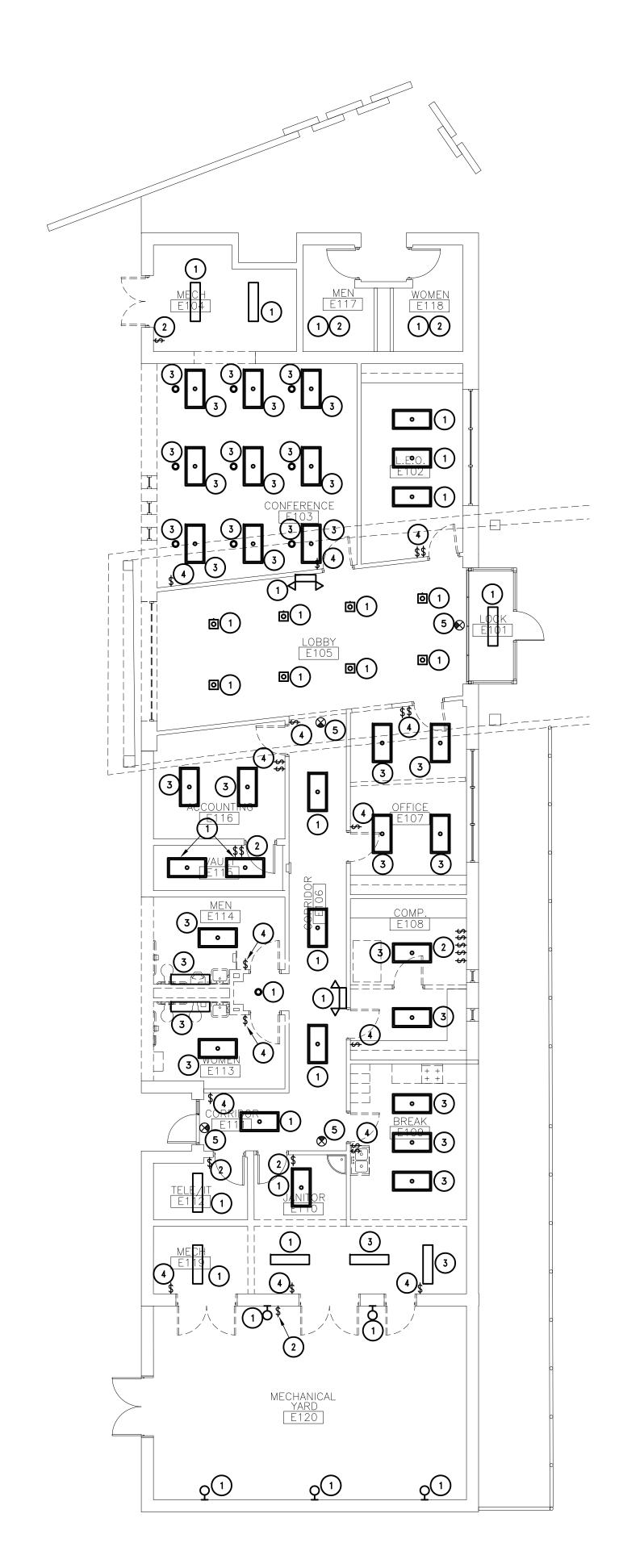
PROPOSED CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

SITE PLAN

971704 1/12/2018 DE1.00 **DEMOLITION ELECTRICAL**

MEP SOLUTIONS ENGINEERING MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748





GENERAL

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- J. CONDUITS IN EXISTING WALLS MAY REMAIN. REMOVE CONDUCTORS AND CUT OF AT CLOSEST ACCESSIBLE POINT ABOVE CEILING.

DEMOLITION KEY NOTES:

- 1) EXISTING LIGHTING FIXTURE TO REMAIN.
- 2 EXISTING LIGHTING SWITCH TO REMAIN.
- 3 EXISTING LIGHTING FIXTURE TO BE REMOVED.
- EXISTING LIGHTING SWITCH TO BE REMOVED.
- 5 EXISTING EXIT SIGN TO BE REMOVED.

FIELD VERIFY ALL CONDITIONS

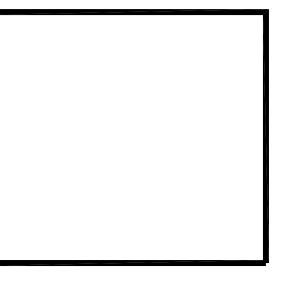
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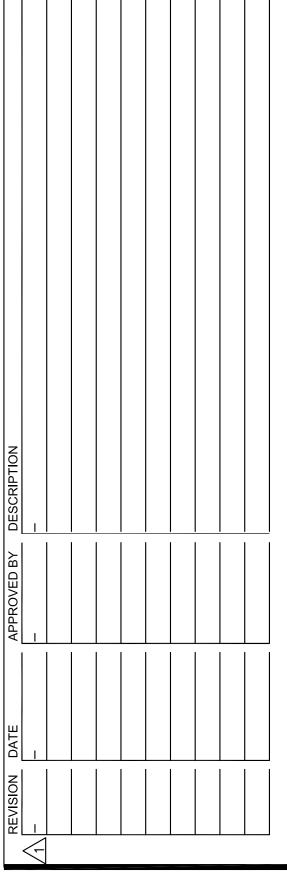
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CITY OF PHARR
INTERNATIONAL
BRIDGE FACILITY
EXPANSION AND
RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

MEP SOLUTIONS
ENGINEERING

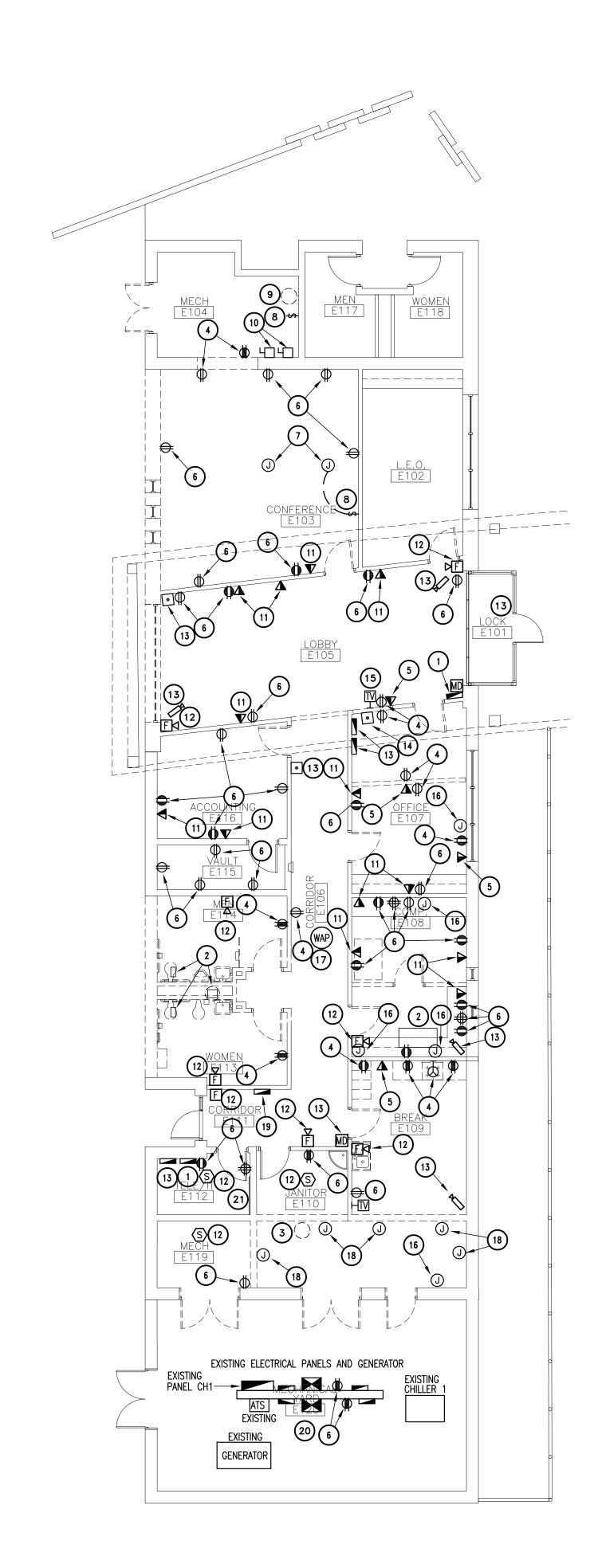
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727

TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

971704 1/12/2018

DE1.01

DEMOLITION ELECTRIAL
LIGHTING PLAN





GENERAL

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DEMOLITION

KEY NOTES:

- EXISTING FIRE ALRAM ANNUNCIATOR (FIRE LITE ALRAM BY HONEY WELL) AND FACE TO REMAIN.
- 2 EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED ELECTRICAL SHALL BE REMOVED.
- 3 EXISTING PLUMBING EQUIPMENT AND ASSOCIATED ELECTRICAL SHALL BE REMOVED.
- 4 EXISTING RECEPTACLE TO BE REMOVED.
- 5 EXISTING TELEPHONE/DATA TO BE REMOVED.
- 6 EXISTING RECEPTACLE TO REMAIN.
- 7 EXISTING MOTORIZED SCREEN AND PROJECTOR REMAIN.
- 8 EXISTING SWITCH TO REMAIN.
- 9 EXISTING PLUMBING EQUIPMENT TO REMAIN.
- (10) EXISTING DISCONNECT TO REMAIN.
- EXISTING TELEPHONE/DATA TO REMAIN.
- 12) EXISTING FIRE ALARM DEVICE TO REMAIN.
- (13) EXISTING SECURITY DEVICE TO REMAIN.
- EXISTING SECURITY DEVICE TO BE REMOVED AND RELOCATED.
- EXISTING TV TO BE REMOVED AND RELOCATED.
- 16 EXISTING J-BOX TO REMAIN.
- EXISTING WIRELESS ACCESS POINT TO REMAIN.
- (18) EXISTING J-BOX TO BE REMOVED.
- EXISTING GENERATOR PANEL TO REMAIN.
- EXISTING ELECTRICAL PANELS, ATS, CHILLER EQUIPMENT AND GENERATOR TO REMAIN, IN MECHANICAL YARD E120.
- 21) EXISTING TELEPHONE BOARD TO REMAIN.

FIELD VERIFY ALL CONDITIONS

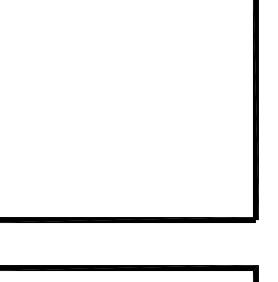
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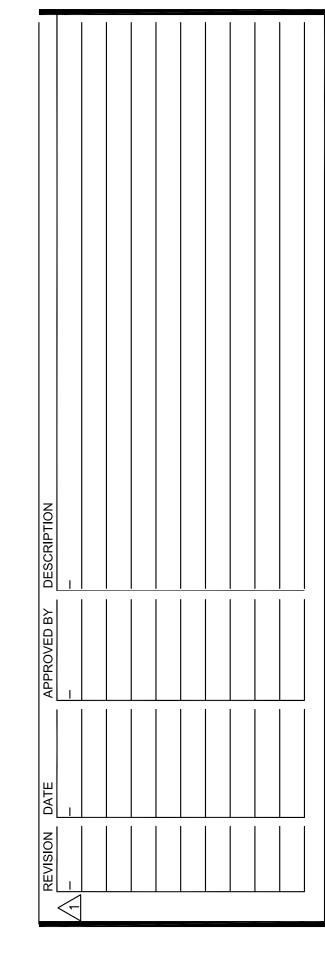
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PROPOSED

CITY OF PHARR

INTERNATIONAL

BRIDGE FACILITY

EXPANSION AND

RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

Project: Date: Revised:

DE1.02

DEMOLITION ELECTRIAL POWER PLAN

971704 1/12/2018

MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 MCALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

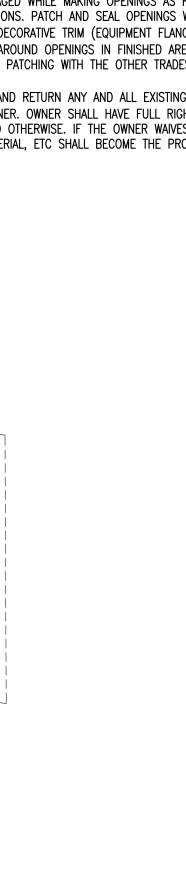
PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

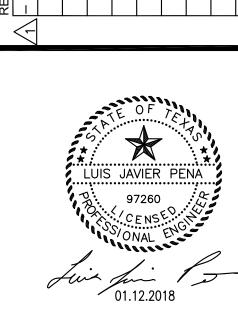
PLUMBING DEMOLITION KEY NOTES:

- DEMOLISH EXISTING <u>WATER CLOSET</u> COMPLETE. DISCONNECT AND <u>REMOVE</u> WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
- 2 DEMOLISH EXISTING LAVATORY COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL CARRIER SYSTEMS. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
- DEMOLISH EXISTING <u>SINK</u> COMPLETE. DISCONNECT AND <u>REMOVE</u> WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF SEWER LINES BELOW FINISH GRADE. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
- DEMOLISH EXISTING <u>URINAL</u> COMPLETE. DISCONNECT AND <u>REMOVE</u> WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF PLUMBING LINES IN ATTIC OR UNDER FINISH FLOOR

GENERAL DEMOLITION NOTES:

- A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.
- B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS.
- C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.
- D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.
- E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF





THE WARREN GROUP

ARCHITECTS, INC.

1801 SOUTH SECOND ST. SUITE 330

McALLEN, TX 78503

956.994.1900

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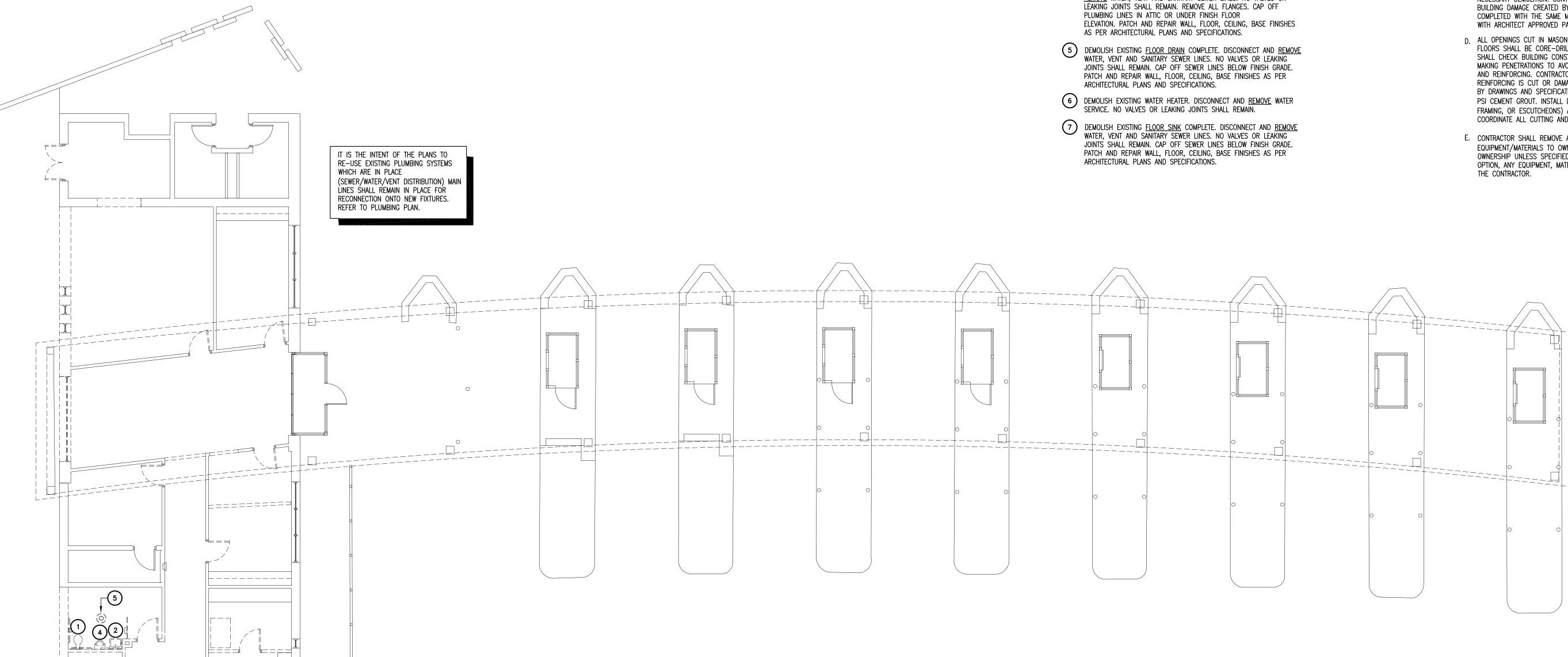
ARCHITECTS INC.

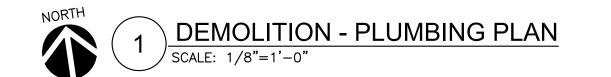
CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

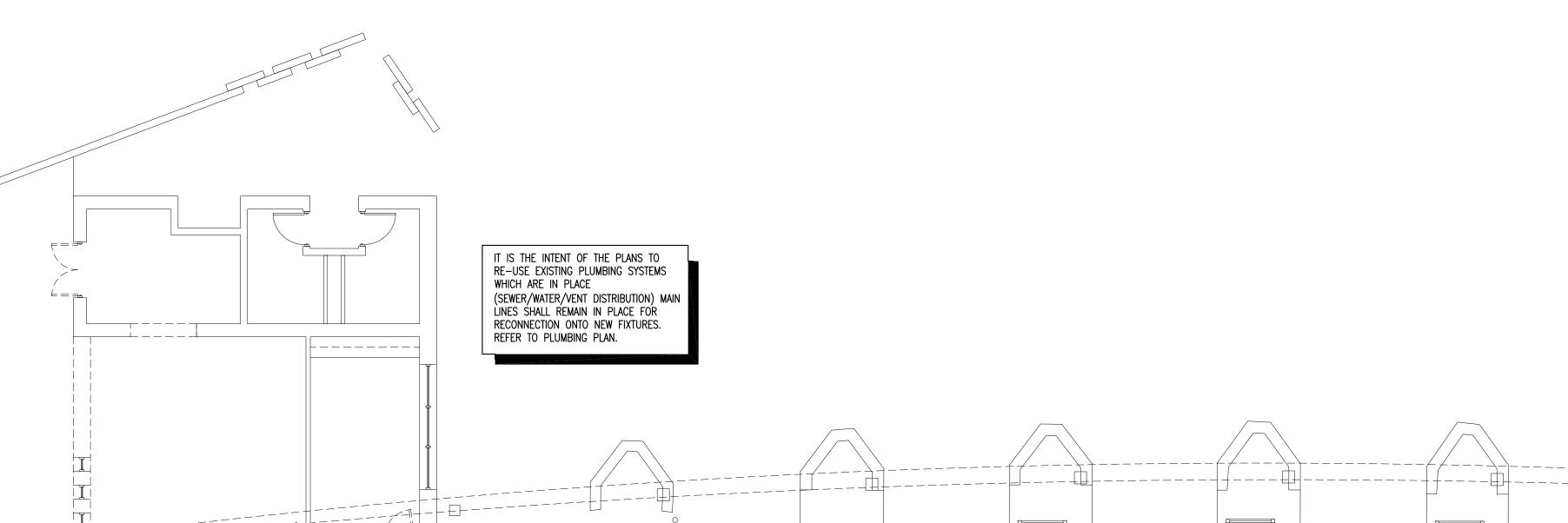
971704 1/12/2018

DP1.01 DEMOLITION PLUMBING PLAN









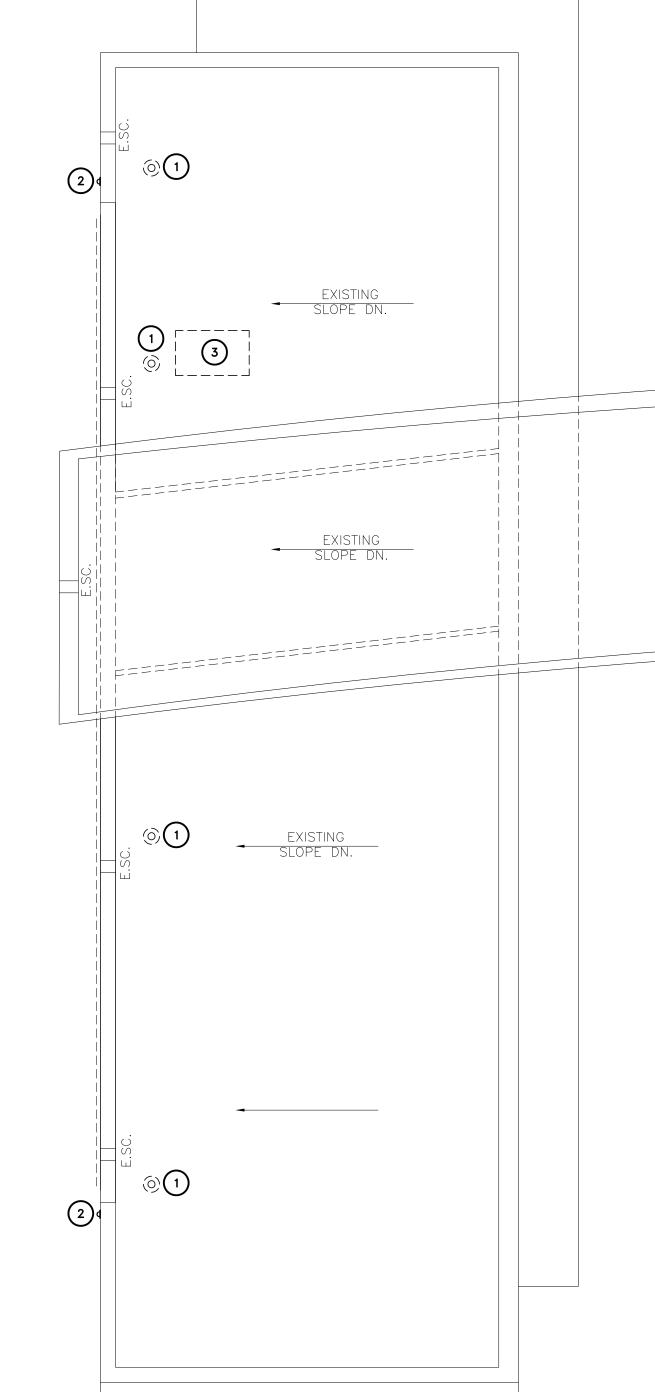
PLUMBING DEMOLITION KEY NOTES:

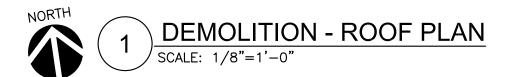
- DEMOLISH EXISTING <u>ROOF DRAIN</u> COMPLETE. DISCONNECT AND <u>REMOVE</u> ALL ASSOCIATED PIPING. NO LEAKING JOINTS SHALL REMAIN. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
- DEMOLISH EXISTING <u>DOWN SPOUT NOZZLE</u> COMPLETE. DISCONNECT AND <u>REMOVE</u> ALL ASSOCIATED PIPING. NO LEAKING JOINTS SHALL REMAIN. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS PER ARCHITECTURAL PLANS AND SPECIFICATIONS.
- ROUTE AND CONNECT EXISTING CONDENSATE DRAIN LINE TO NEW CONDENSATE DRAINAGE SYSTEM. REFER TO PLUMBING PLAN. EXISTING ROOF TOP UNIT TO REMAIN.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN 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.

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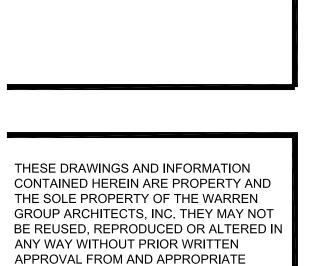






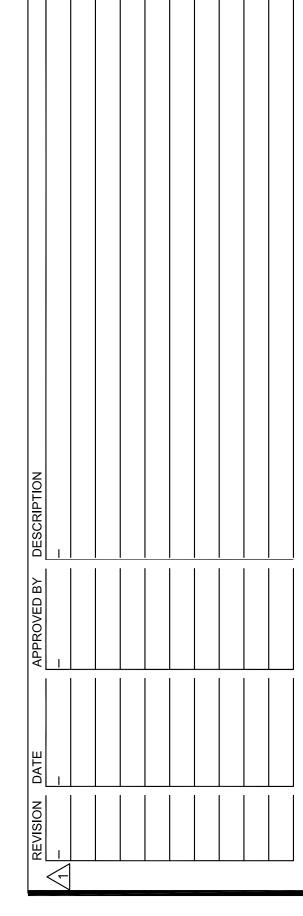
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COMPENSATION TO THE WARREN GROUP

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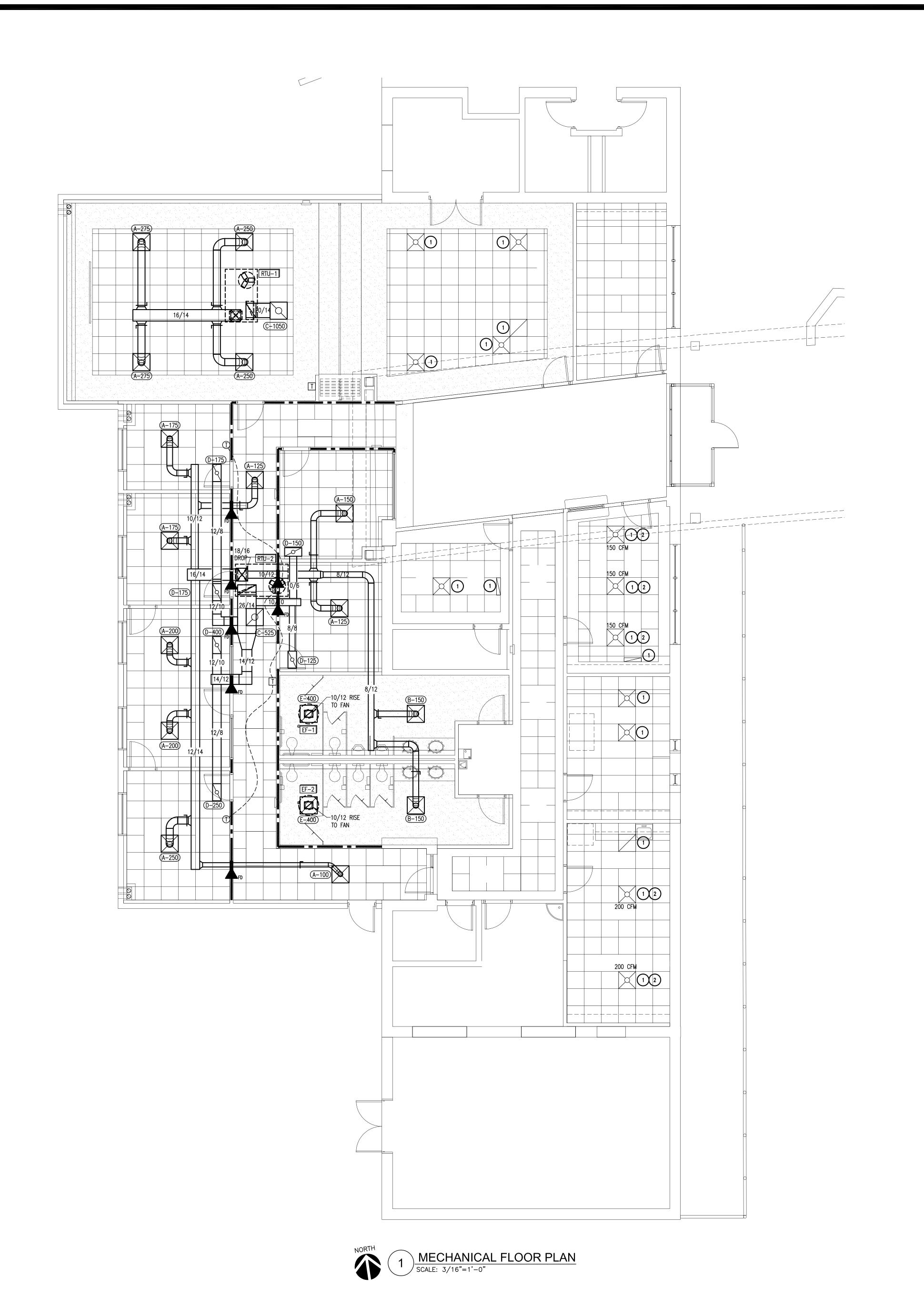


CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

971704 1/12/2018 DP1.02

DEMOLITION ROOF PLAN



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
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.
- D. CONCEALED DUCTS SHALL BE SHEETMETAL SINGLE WALL TYPE WITH EXTERNAL WRAP INSULATION UNLESS OTHERWISE NOTED.
- E. ALL EXPOSED (VISIBLE) DUCT SHALL BE SHEETMETAL SINGLE WALL INTERNALLY LINED TYPE AND SURFACED FOR PAINTING. COLOR SELECTION BY ARCHITECT. (NO EXPOSED FLEX DUCT SHALL BE ALLOWED).
- 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.

KEY NOTES:

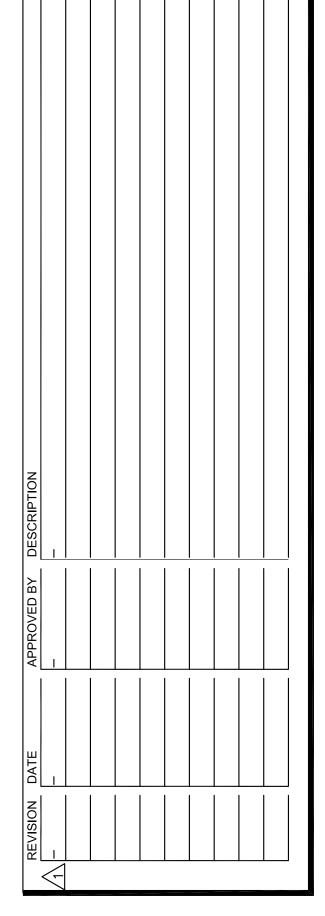
- 1 EXISTING RELOCATED AIR DEVICE. EXTEND DUCTWORK AS REQUIRED TO ACCOMMODATE RELOCATION. PROVIDE CFM's SHOWN.
- 2 RE-BALANCE EXISTING AIR DEVICE TO CFM SHOWN.



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CITY OF PHARR
INTERNATIONAL
BRIDGE FACILITY
EXPANSION AND
RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

MECHANICAL

FLOOR PLAN

MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 MCALLEN, TX 78501 (956) 664-2727

TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

Project: 971704
Date: 1/12/2018
Revised: 1/10/1

GENERAL MECHANICAL NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION EFFORTS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS.
- . CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMODATE CEILINGS. CONTRACTOR SHALL COORDINATE INSTALLATION WORK WITH ALL OTHER TRADES. ALL DUCTWORK SHALL BE MODIFIED AS REQUIRED TO FIT AROUND BUILDING STRUCTURES.
- . CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS AS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS AND INDIVIDUAL DIFFUSER DAMPERS.
- 4. CONTRACTOR SHALL MOUNT ALL THERMOSTATS 48-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH ROOM FINISHES. PROVIDE ALL CONTROL VOLTAGE WIRING FOR THERMOSTAT INSTALLATION.
- . CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING AIR DEVICES WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL CEILING PLANS. AIR DEVICES SHALL BE RELOCATED IF REQUIRED TO AVOID OBSTRUCTION WITH DUCTWORK AND LIGHT FIXTURES.
- . PROVIDE SMOKE DETECTORS AND SHUTDOWN CONTROLS ON AIR HANDLING UNITS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 16.

GENERAL ABBREVIATIONS							
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION				
AFF	ABOVE FINISHED FLOOR	KW	KILOWATTS				
AHU	AIR HANDLING UNIT	L	LOUVER				
ACCU	AIR COOLED CONDENSING UNIT	MAX	MAXIMUM				
DB	DRY BULB	MIN	MINIMUM				
EDH	ELECTRIC DUCT HEATER	NTS	NOT TO SCALE				
EF	EXHAUST FAN	OBD	OPPOSED BLADE DAMPER				
FCU	FAN COIL UNIT	S.P.	STATIC PRESSURE				
FCCU	FAN COOLED CONDENSING UNIT	WB	WET BULB				

	NECK/BI	RANCH D	UCT SIZE	CHART	
	SUPPLY DUCT			RETURN DUCT	
NECK/BF	RANCH SIZE	CFM RANGE	NECK/BR/	NECK/BRANCH SIZE	
6" DIAMETER	6/6 DUCT	0 - 100	6" DIAMETER	6/6 DUCT	0 - 75
8" DIAMETER	12/6 DUCT	101 - 225	8" DIAMETER	12/6 DUCT	76 - 150
10" DIAMETER	12/8 DUCT	226 - 400	10" DIAMETER	12/8 DUCT	151 – 275
12" DIAMETER	12/10 DUCT	401 - 675	12" DIAMETER	12/10 DUCT	276 – 475
14" DIAMETER	14/12 DUCT	676 - 1000	14" DIAMETER	14/12 DUCT	476 - 700
16" DIAMETER	18/12 DUCT	1001 - 1400	16" DIAMETER	18/12 DUCT	701 – 1000
18" DIAMETER	24/12 DUCT	1401 - 2000	18" DIAMETER	24/12 DUCT	1001 - 1300
20" DIAMETER	24/14 DUCT	2001 - 2500	20" DIAMETER	24/14 DUCT	1301 - 1800
22" DIAMETER	20/22 DUCT	2501 - 3200	22" DIAMETER	22/20 DUCT	1801 - 2300
24" DIAMETER	22/24 DUCT	3201 - 4200	24" DIAMETER	24/22 DUCT	2301 - 2800
			26" DIAMETER	24/24 DUCT	2801 - 3600
			28" DIAMETER	26/26 DUCT	3601 - 4200

	MECHANICAL SYMBOLS						
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION				
①	TEMPERATURE SENSOR	\square	EXHAUST AIR DUCT				
	SUPPLY AIR DEVICE (SEE SCHEDULE)		RETURN AIR DUCT				
Ø	RETURN/TRANSFER AIR DEVICE (SEE SCHEDULE)	\boxtimes	SUPPLY AIR DUCT				
	EXHAUST FAN (SEE SCHEDULE)	X/X	DUCT INTERNAL DIMENSIONS (WIDTH/DEPTH)				
	RECTANGULAR DUCT TRANSITION	ವ (ROUND BRANCH DUCT WITH MANUAL BALANCING DAMPER				
@3	ROUND FLEX DUCT	(%) _73 [%] _73 [%] _73	ROOF TOP UNIT (SEE SCHEDULE)				
FD	FIRE DAMPER	T	THERMOSTAT				

				AIR [DEVICE	SCHE	DULE			
DESIGNATION	SIZE	MOUNTING	THROW	NECK Type	CONSTRUCTION	OBD	MAX NC	FINSH	MANUFACTURER	MODEL
Α	24 X 24	LAY-IN	4-WAY	ROUND	ALUMINUM	YES	30	B12 WHITE	PRICE	ASPD
В	24 X 24	SURFACE	4-WAY	ROUND	ALUMINUM	YES	30	B12 WHITE	PRICE	ASPD
С	24 X 24	LAY-IN	-	-	ALUMINUM	NO	30	B12 WHITE	PRICE	80
D	24 X 12	LAY-IN	-	-	ALUMINUM	NO	30	B12 WHITE	PRICE	80
E	24 X 24	SURFACE	-	-	ALUMINUM	YES	30	B12 WHITE	PRICE	610Z
LEGEND: CFM NOTES: 1. SIZE SHALL INCLUDE MODULE WITH FULL FACE. 2. COORDINATE AIR DEVICE TYPE WITH ARCHITECTURAL CEILINGS. 3. NECK SIZE PER NECK/BRANCH DUCT SIZE CHART.										

ROOF TOP	U١	NIT SCH	HEDUL
ROOF TOP UNIT DESIGNATION		RTU-1	RTU-2
SUPPLY CFM		1050	1800
OUTSIDE AIR CFM		150	250
EXTERNAL S.P. ("W.G.)		0.6	0.6
MOTOR HP.		-	_
TOTAL CAPACITY (MBH)		32.30	53.96
SENSIBLE CAPACITY (MBH)		22.98	39.81
ENTERING AIR (DB/WB)°F		78/65	78/65
LEAVING AIR (DB/WB)°F		57.7/54.9	56.9/54.8
CONDENSER AIR (DB)°F		98	98
HEATER CAPACITY (KW)		8.10	12.9
STAGES		1	1
VOLTAGE/PHASE		460/3ø	460/3ø
MCA/MOCP		17/20	27/30
MANUFACTURER		CARRIER	CARRIER
MODEL		50KC-004	50KC-006
UNIT WEIGHT (LBS)		712	819
EFFICIENCY EER (SEER)		14.0	14.1
REMARKS		1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,
<u>REMARKS</u>			

E\/		
EXHAUST FA	AN SCH	FDULE
DESIGNATION	EF-1	EF-2
EXHAUST CFM	400	400
EXTERNAL S.P. ("W.G.)	0.375	0.375
MOTOR HP.	1/4	1/4
MOTOR RPM	1228	1228
DRIVE TYPE	DIRECT	DIRECT
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL
MOUNTING LOCATION	ROOF	ROOF
SONES	5.9	5.9
VOLTAGE/PHASE	120/1ø	120/1ø
MANUFACTURER	GREENHECK	GREENHECK
MODEL	G-095-VG	G-095-VG
UNIT WEIGHT (LBS)	26	26
REMARKS	1,2,3,4,5	1,2,3,4,5

- REMARKS

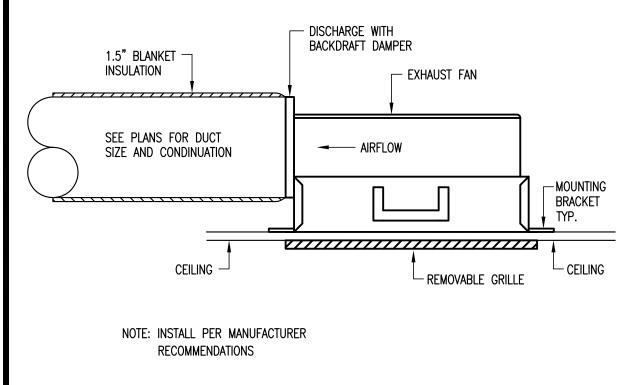
 1. PROVIDE WITH INTERNAL DISCONNECT.

 2. PROVIDE WITH BACK DRAFT DAMPER.

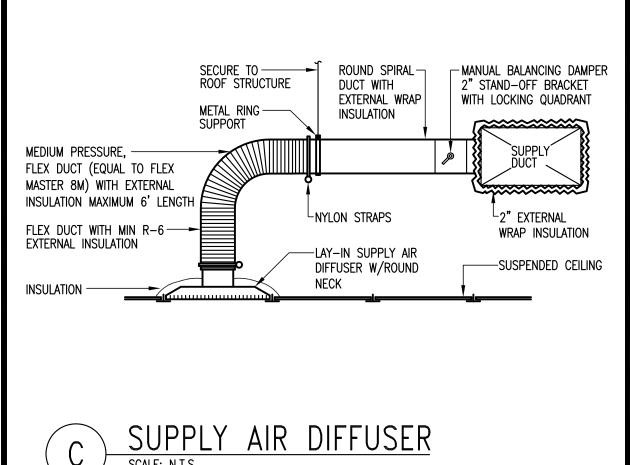
 3. PROVIDE WITH FAN SPEED CONTROL. 4. SWITCH WITH LIGHTS.5. PROVIDE WITH ROOF CURB.
- 1. PROVIDE PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSOR(S) WHERE SHOWN.
 2. PROVIDE SINGLE POINT POWER.
 3. PROVIDE WITH ROOF CURB.
- 4. PROVIDE WITH HINGED ACCESS DOORS. CONDENSER COILS SHALL BE CORROSION RESISTANT. PROVIDE WITH OUTSIDE AIR HOOD AND 2-POSITION MOTORIZED DAMPER.
- PROVIDE WITH HOT-GAS REHEAT AND HUMIDITY CONTROL. 8. PROVIDE WITH CONDENSER COIL HAIL GUARD.

3 4
KEY NOTES:
1 CEILING MOUNTED RETURN/EXHAUST AIR GRILLE. SEE PLANS AND SCHEDULE.
2 SECURE INTERNALLY LINED PLENUM TO AIR DEVICE.
3 PLENUM HEIGHT SHALL RE 12-INCHES MINIMUM WITH 15" INTERNAL LINING

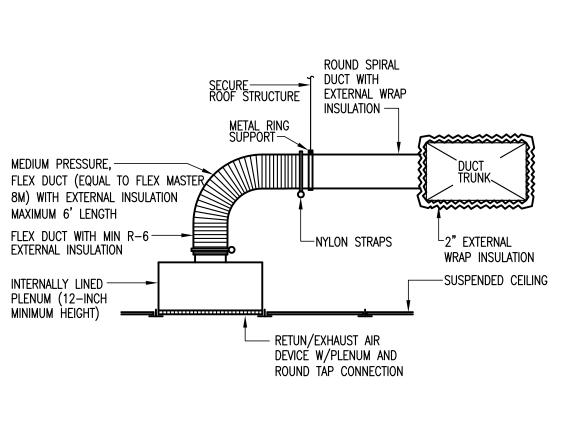
- 3 PLENUM HEIGHT SHALL BE 12-INCHES MINIMUM WITH 1.5" INTERNAL LINING. 4 PROVIDE ROUND/SQUARE TAP CONNECTION AS REQUIRED.



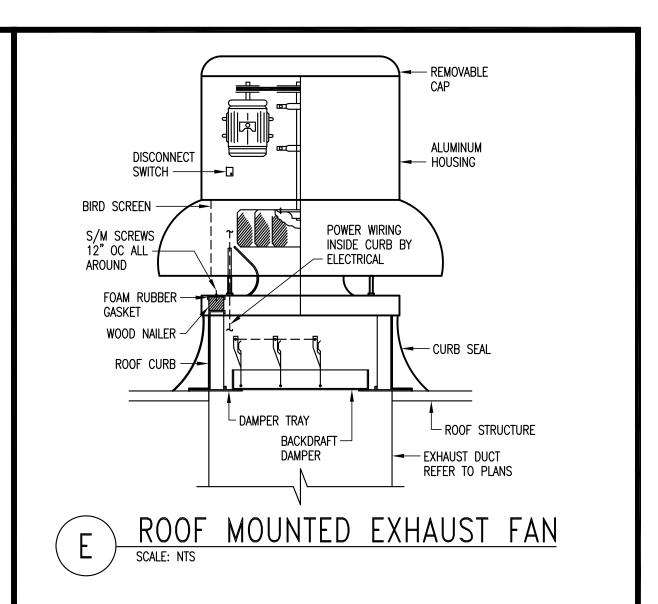








RETURN/EXHAUST AIR DEVICE
SCALE: N.T.S.

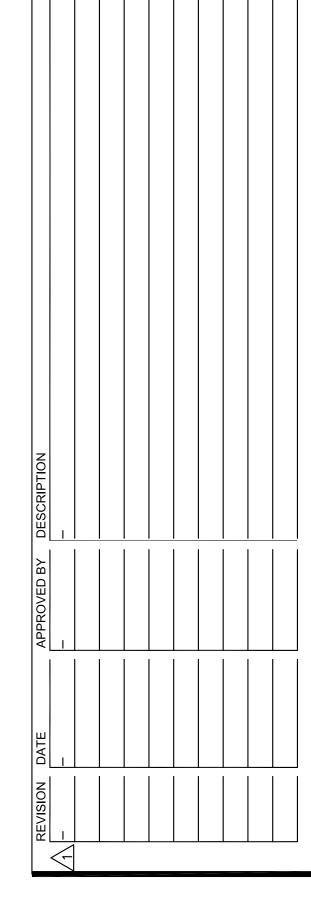




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ARCHITECTS INC.



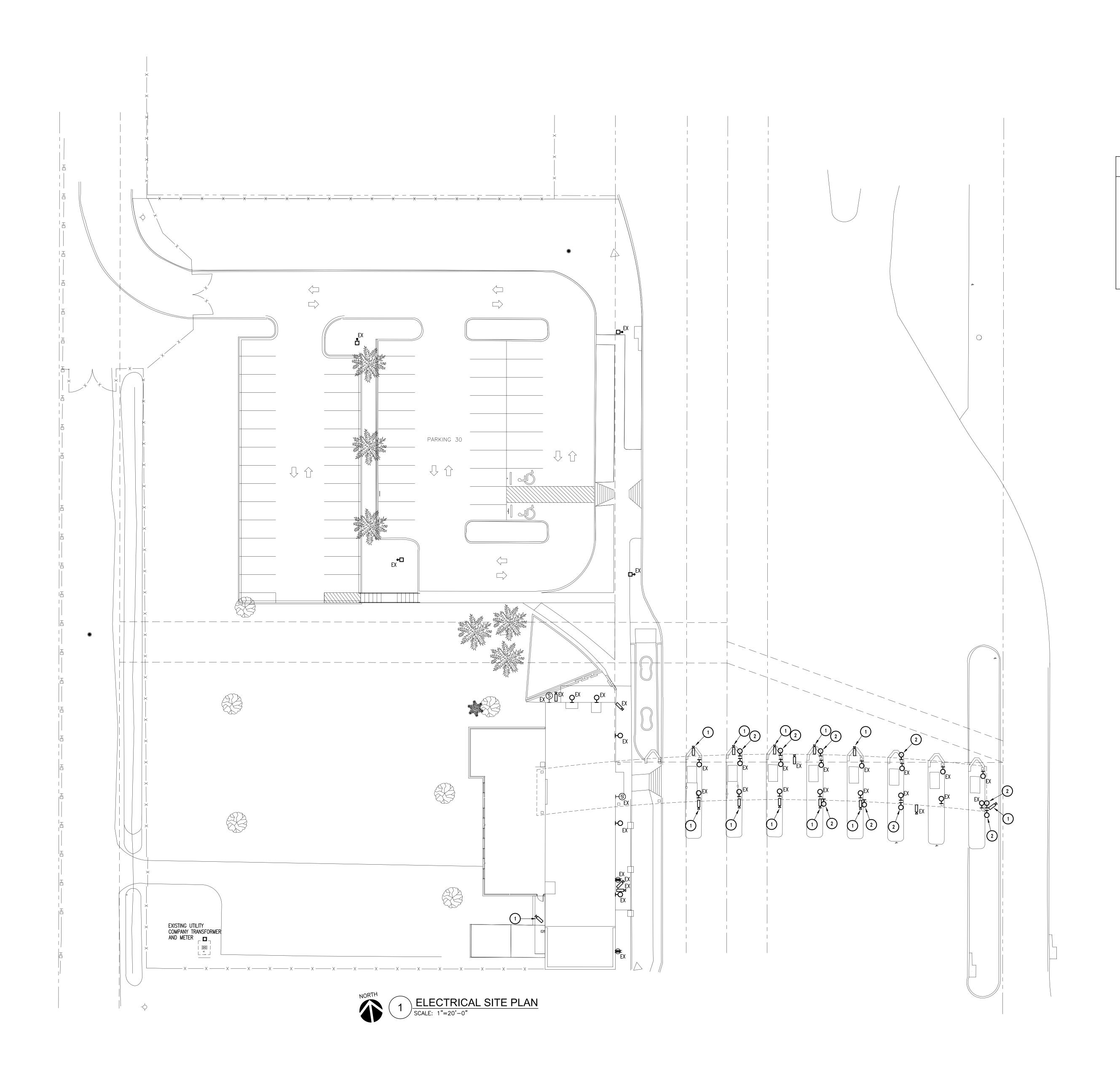


PROPOSED CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

971704 1/12/2018

MEP SOLUTIONS ENGINEERING M2.01MECHANICAL MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 SCHEDULES & DETAILS TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748



GENERAL NOTES: ()

(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) FOR FEEDER / BRANCH CIRCUIT SCHEDULE REFER TO SHEET E2.00, DETAIL 6.

KEYED NOTES:

NEW LOCATION OF CAMERA, REMOVED UNDER DEMOLITION.

2 NEW LOCATION OF LIGHT FIXTURE, REMOVED UNDER DEMOLITION.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS.

THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

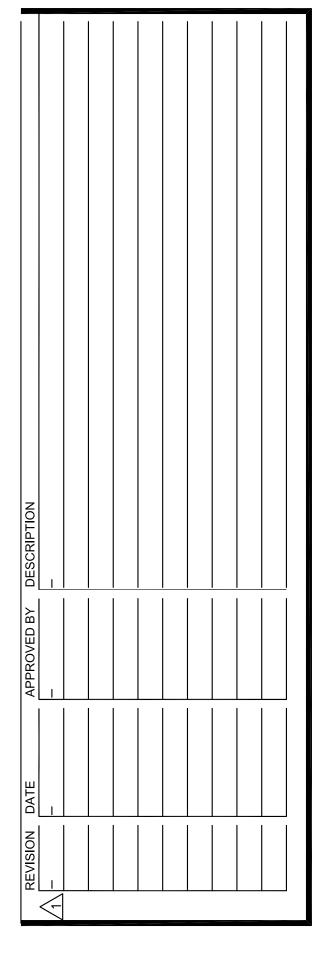
CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

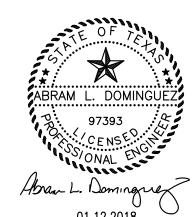
BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



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CITY OF PHARR
INTERNATIONAL
BRIDGE FACILITY
EXPANSION AND
RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

Project: Date: Revised:

971704 1/12/2018

E1.00 ELECTRICAL SITE PLAN

SOLUTIONS ENGINEERING

MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 MCALLEN, TX 78501 (956) 664-2727

TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

1.____

LEGEND(LUTRON)

PJ2-2B-GWH-L01 (CW-1-WH) $\begin{vmatrix} P \\ 3RI \end{vmatrix}$ PJ2-3BRL-GWH-L01 (CW-1-WH)

LRF2-DCRB-WH s LRF2-0CR2B-P C LRF2-OKLB-P

(HUB) HJS-2-FM 16S RMJS-16R-DV-B 8T RMJS-8T-DV-B

GENERAL NOTES: A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE RCP.

B. EXIT LIGHTS ARE TYPE X, UNO. CONNECT EXIT LIGHT FIXTURES TO UN-SWITCHED CIRCUIT SERVING SPACE IN WHICH FIXTURE IS INSTALLED. INSTALL WALL MOUNTED

FIXTURES 8'-0" AFF, UNO. C. COORDINATE PLACEMENT OF FIXTURES WITH ACTUAL INSTALLATION OF MECHANICAL

EQUIPMENT AND DUCTWORK. D. WHERE TWO LIGHT SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, THE SWITCH NEAREST THE DOOR CONTROLS THE OUTER LAMPS IN ALL THE FIXTURES IN THE SPACE AND THE OTHER SWITCH CONTROLS THE INNER LAMPS IN ALL THE FIXTURES

E. CIRCUIT EMERGENCY FIXTURES IN ROOMS TO PERMIT ALL THE LAMPS TO BE

SWITCHED OFF, LEAVING THE BATTERY IN STAND BY CONDITION, SO THE EMERGENCY BATTERY UNIT WILL OPERATE ONE LAMP WHEN THE NORMAL POWER IS INTERRUPTED. REQUEST THE REQUIRED WIRING DIAGRAM FROM EQUIPMENT MANUFACTURER. ALL EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO THE NON-SWITCHED PHASE WIRE IN ADDITION TO THE SWITCHED LEG. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE NON-SWITCHED PHASE WIRE ONLY.

F. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.

G. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.

H. FIXTURES SHALL BE CIRCUITED TO CIRCUIT INDICATED IN SPACE. I. FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE. REFER TO DETAIL 5/SHEET E2.00.

KEYED NOTES:O

IN THE SPACE, UNO.

1 EMERGENCY LIGHT FIXTURE IN CORRIDORS TO BE CIRCUITED BACK TO EXISTING 277V EMERGENCY CIRCUIT, FIELD VERIFY.

(2) LIGHT FIXTURE IN AREA TO BE CIRCUITED BACK TO EXISTING CIRCUIT, FIELD VERIFY.

3 LIGHTING CIRCUIT SHALL BE CONTROLLED VIA THE LIGHTING CONTROLLER WITH A 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK AND BY-PASS PHOTOCELL. PHOTOCELL MOUNTED ON BUILDING EXTERIOR ON NORTH WALL FACING

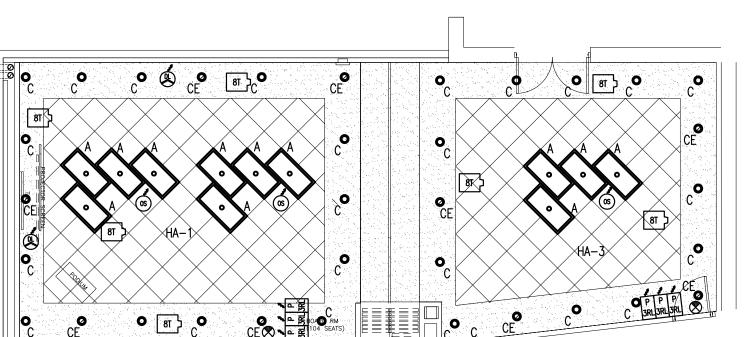
FIELD VERIFY ALL CONDITIONS DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS.

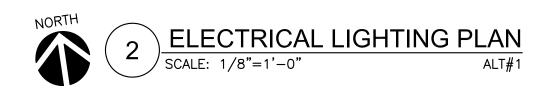
THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.

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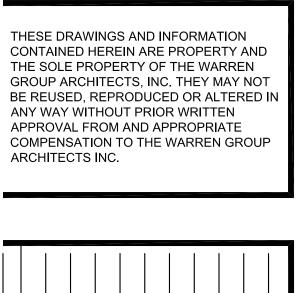
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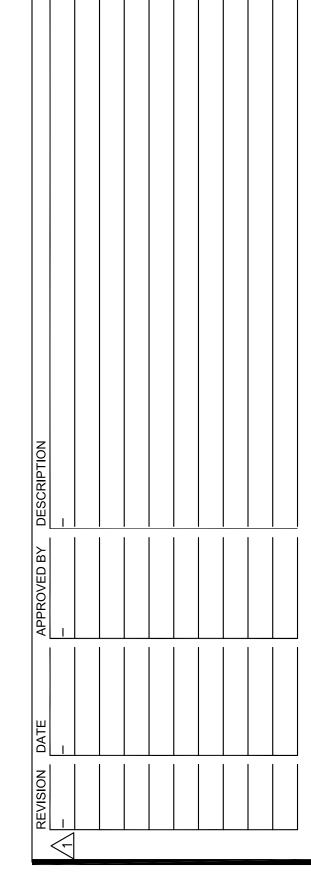


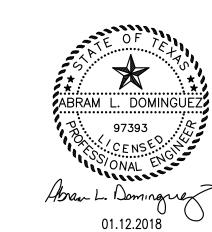


THE WARREN GROUP ARCHITECTS, INC.

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CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND**

LOT 3 GSA SUBDIVISION PHARR, TEXAS

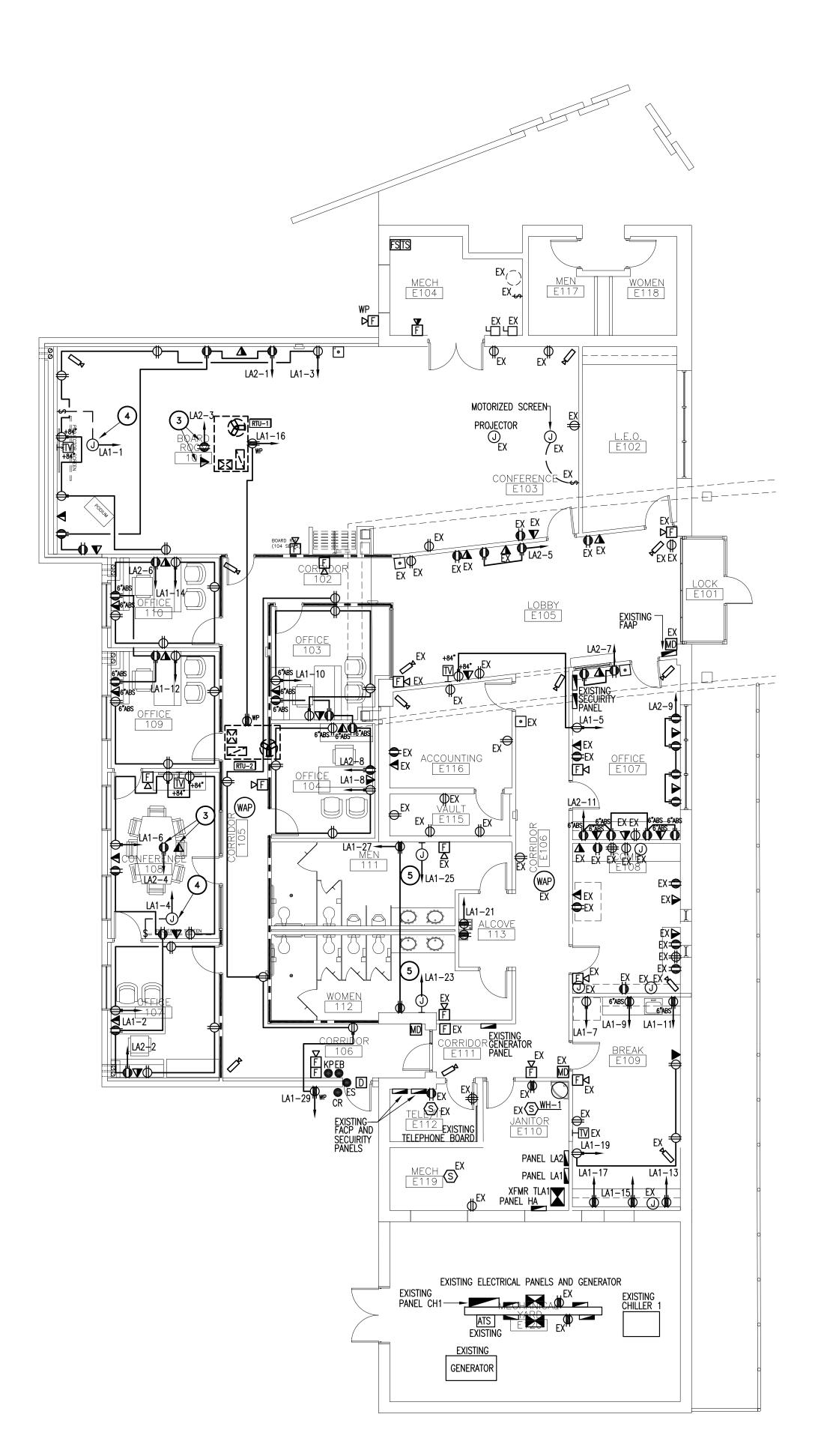
RENOVATIONS

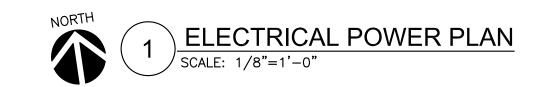
ELECTRICAL

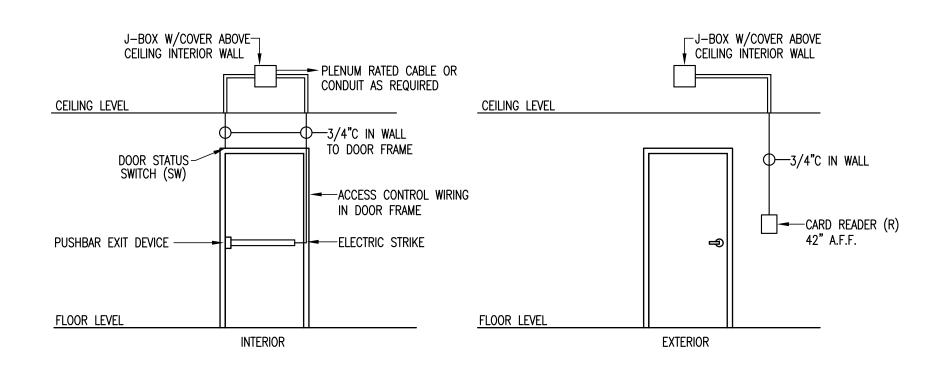
LIGHTING PLAN

971704 1/12/2018 E1.01

MEP SOLUTIONS ENGINEERING MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748







2 ELECTRICAL PUSHBAR SCALE: N.T.S.

GENERAL NOTES:

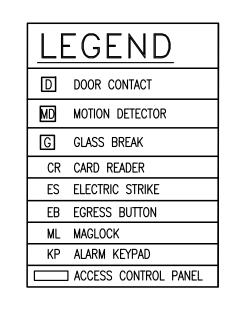
- A. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.
- B. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.
- C. ACCESS CONTROL SHALL TIE INTO EXISTING HONEYWELL NETAXS CONTROL
- D. FIRE ALARM DEVICES SHALL TIE INTO EXISTING (FIRE LITE ALRAM BY HONEY WELL) AND FIRE ALARM CONTROL PANEL.
- E. FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE. REFER TO DETAIL 5/SHEET E2.00.
- **KEY NOTES:** 1) EXISTING FIRE ALARM ANNUNCIATOR.
- FURNISH AND INSTALL NEW 20 AMP, 1 POLE CIRCUIT BREAKER IN EXISTING PANEL. MATCH EXISTING AIC RATING. EXISTING GE
- PANELBOARD. FURNISH AND INSTALL RECEPTACLE AND SINGLE GANG BOX FOR CABLING. AT CEILING LOCATION FOR CONNECTION OF PROJECTOR. COORDINATE LOCATION
- WITH OWNER PRIOR TO ROUGH-IN. FOR MOTORIZED PROJECTION SCREEN. COORDINATE EXACT LOCATION OF DEVICES WITH ARCHITECT PRIOR TO ROUGH—IN. ROUTE 3 WIRE CONTROL TO SWITCH FURNISHED WITH PROJECTION SCREEN. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- 5 FURNISH AND INSTALL EXCEL # XL-W XLERATOR HAND DYER. FURNISH AND INSTALL J-BOX FOR CONNECTION OF HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. ROUTE 2#10, #10G, 1/2"C.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

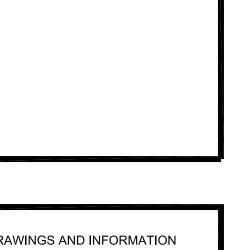
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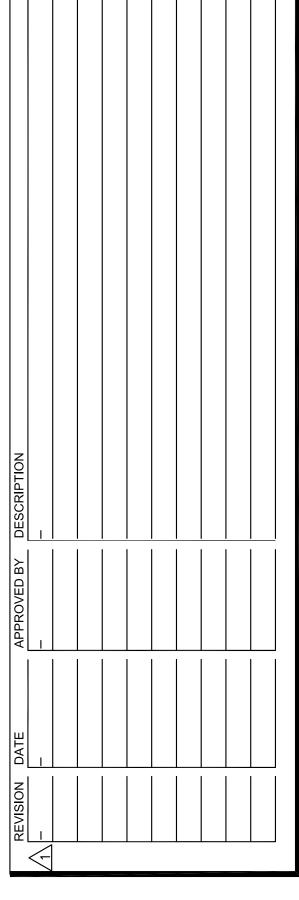




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CITY OF PHARR INTERNATIONAL BRIDGE FACILITY

LOT 3 GSA SUBDIVISION PHARR, TEXAS

RENOVATIONS

EXPANSION AND

ELECTRICAL

POWER PLAN

971704 1/12/2018 E1.02

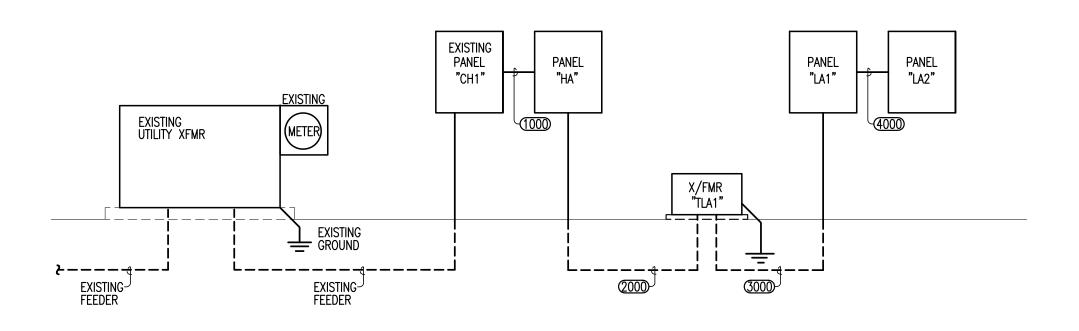
MEP SOLUTIONS ENGINEERING MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

		S SHOWN MAY NOT RE SHOWN SCHEMATION SCHEMATION (SEE NOTE 1) SEE FIX. SCH. SEE FIX. SCH. SEE FIX. SCH. SEE FIX. SCH.		TO SCALE. FIRE ALARM SPRINKLER FLOW SWITCH FIRE ALARM SPRINKLER TAMPER SWIT	·	MNTG. HT. UNO (SEE NOTE 1) –
	2'x4' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT 2'x4' FLUORESCENT LIGHT FIXTURE SWITCHED W/ INBOARD LAMPS ONE SWITCH AND OUTBOARD LAMPS ON ANOTHER 2'X4' FLUORESCENT FIXTURE W/INBOARD LAMPS ON EMERGENCY CIRCUIT AND OUTBOARD LAMPS ON NORMAL CIRCUIT 2'x2' FLUORESCENT LIGHT FIXTURE	(SEE NOTE 1) SEE FIX. SCH. SEE FIX. SCH. SEE FIX. SCH.	[S] - [T]	FIRE ALARM SPRINKLER TAMPER SWIT	1	(SEE NOTE 1) -
	2'x4' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT 2'x4' FLUORESCENT LIGHT FIXTURE SWITCHED W/ INBOARD LAMPS ONE SWITCH AND OUTBOARD LAMPS ON ANOTHER 2'X4' FLUORESCENT FIXTURE W/INBOARD LAMPS ON EMERGENCY CIRCUIT AND OUTBOARD LAMPS ON NORMAL CIRCUIT 2'x2' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.		FIRE ALARM SPRINKLER TAMPER SWIT	·	-
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	CIRCUIT AND OUTBOARD LAMPS ON NORMAL CIRCUIT 2'x2' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.		FIRE ALARM SPRINKLER PRESSURE S		
			(S) ⊢(S) (H) ⊢(H)	FIRE ALARM SMOKE DETECTOR CEILIN HEAT DETECTOR CEILING OR WALL MO		80" AFF
	2'x2' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.	(D)=====	DUCT SMOKE DETECTOR		_
		SEE FIX. SCH.		SMOKE DOOR HOLDER		_
		CEE EIV COIL	FACP	FIRE ALARM CONTROL PANEL		_
-	FLUORESCENT STRIP LIGHT	SEE FIX. SCH.	FAAP	FIRE ALARM ANNUNCIATOR PANEL		_
	1'X4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.	<u> </u>	P.A. SPEAKER, CEILING OR WALL MOU	UNTED	9" BFC
▽ ▽	TRACK LIGHT	SEE FIX. SCH.	<u>⊢M</u>	MICROPHONE OUTLET DISCONNECT SWITCH - 30/-/3 INDIC	CATES 30A 3-POLE	
	INCANDESCENT, FLUORESCENT, OR HID WALL WASHER LIGHT	SEE FIX. SCH.	□ 30/-/3	NONFUSED; 30/30/3 INDICATES 30A,	3-POLE, 30A FUSE	AS REQD.
-	FIXTURE CEILING MTD.		CB □ 30/3	CIRCUIT BREAKER DISCONNECT SWITCH CB IN NEMA 1 ENCL; AMPS/POLES		AS REQD.
ОЮ	INCANDESCENT, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD. INCANDESCENT, FLUORESCENT, OR HID FIXTURE ON EMERGENCY CCT.	SEE FIX. SCH.	□ 30/30/3	DISCONNECT SWITCH - 30/30/3 INDI 30A FUSE	ICATES 30A, 3-POLE,	AS REQD.
Ø 10	CLG. OR WALL MTD. EXIT LIGHT, CEILING OR WALL MOUNTED — SHADING INDICATING	SEE FIX. SCH.	_	MOTOR STARTER FVNR UNO; NUMBE	R INDICATES NEMA SIZE	AS REQD.
₩ +2	SINGLE OR DOUBLE FACE; DIRECTIONAL ARROWS AS INDICATED	9" BFC	CB M M	COMBINATION MOTOR CONTROLLER/DI	SCONNECT SWITCH	AS REQD.
\$	WALL SWITCH SPST, 20A,120/277V	48" AFF	/0/	MOTOR		-
\$ 2	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V	48" AFF		PANELBOARD		
\$ 3	3-WAY WALL SWITCH, 20A,120/277V	48" AFF		CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #12G, 1/2°C. 20A/1P CB	3 UNO)	-
\$ 4	4-WAY WALL SWITCH, 20A,120/277V	48" AFF	X,X,X	THREE SINGLE POLE DEVICE CIRCUIT	•	_
\$ D	WALL DIMMER SWITCH	48" AFF	X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBER	RS	_
\$ K	KEY OPERATED WALL SWITCH	48" AFF	MD HMD	MOTION DETECTOR, CEILING OR WALL		-
\$ P	WALL SWITCH WITH PILOT LIGHT	48" AFF	- DH	DOOR HOLDER- REFER TO ARCHITEC DOOR ROUGH-IN RE		FOR _
Θ	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF	C _P	CHIME/STROBE		80"AFF
0	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF	BD G	BELL/BUZZ GLASS BREAK MOTION SENSOR		48"AFF
	DUPLEX RCPT. SPLIT-WIRED - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF		DOOR CONTACTS		_
=	DUPLEX RCPT. GFI - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF	K	KEYPAD		48"AFF
+	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE	15" AFF		CAMERA DEFEND TO DISCOUR	TION IN DOOR HADDWAR	
*	COVERPLATE) ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R	15" AFF	_ CR	CARD READER — REFER TO DISCRIP' SPECIFICATION SECTION. ELECTRICAL ABBRI		E 40 AFF
⊕ E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	15" AFF	-	ELECTRICAL ADDRI	EVIATIONS	
0	FLOOR MOUNTED DUPLEX RECEPTACLE — FLUSH MOUNTED UNO		AFF	ABOVE FINISHED FLOOR	NL NO (NO)	NIGHT LIGHT NORMALLY OPEN
_		15" AFF	BFC C	BELOW FINISHED CEILING CONDUIT	NO (N.O.) RCPT(S)	RECEPTACLE(S)
0.0	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)		CB	CIRCUIT BREAKER	PNL	PANEL
○ ⊢ ○	JUNCTION BOX — SIZE & MOUNTING AS REQUIRED MULTIOUTLET ASSEMBLY — LENGTH AND OUTLET SPACING AS	AS REQD.	EC	EMPTY CONDUIT	SO (S.O.)	SPACE ONLY
	INDICATED	AS NOTED	1	EXISTING	SP	SPARE
4	TELEPHONE/DATA OUTLET. WALL MOUNTED — STUB 1" C. ABOVE CEILING FROM OUTLET BOX	15" AFF		FUSE GROUND (EQUIPMENT)	ST (S.T.) SW	SHUNT TRIP SWITCH
\times	FLOOR MOUNTED DATA/TELEPHONE OUTLET - FLUSH MOUNTED UNO	-		GROUND FAULT INTERRUPTER	UF	UNDERFLOOR
TV HTV	TELEVISION OUTLET. CLG. OR WALL MOUNTED — STUB 3/4" C. ABOVE CEILING FROM OUTLET BOX	15" AFF	1	INTERRUPTING CAPACITY	UG	UNDERGROUND
•	PUSHBUTTON	48" AFF		ISOLATED GROUND	UNO(U.N.O.)	UNLESS NOTED OTHERWIS
⊢©	CLOCK HANGER OUTLET 15A/125V/2P/3W/G RECEPTACLE	96" AFF		MOUNT OR MOUNTED NORMALLY CLOSED	WG WP	WIRE GUARD WEATHERPROOF
AP WAP	WIRELESS ACCESS PIONT	_	1	NONFUSED	WP XFMR	TRANSFORMER
F	FIRE ALARM PULL STATION	48" AFF	NIC	NOT IN CONTRACT	ABS	ABOVE BACK SPLASH
<u> </u>	FIRE ALARM AUDIBLE/VISUAL SIGNAL	80" AFF	NOTES:			
F◀	FIRE ALARM AUDIBLE SIGNAL	80" AFF		NDICATES TO TOP OF DEVICE; NDICATES TO BOTTOM OF DEVICE;		
F◀	FIRE ALARM VISUAL SIGNAL	80" AFF		R MOUNTING HEIGHTS REFER TO CENTERLINE	E OF DEVICE.	
<u>s</u> <	SPEAKER VOICE EVAC SYSTEM	80" AFF				

1 ELECTRICAL LEGEND SCALE: N.T.S.

	TRANSFORMER SCHEDULE						
		PRIMARY	SECONDARY	GROUNDING			
MARK	KVA	VOLTAGE	VOLTAGE	ELECTRODE	REMARKS		
XFMR-TLA1	45	480V DELTA	208Y/120 GND WYE	#6			

2 ELECTRICAL TRANSFORMER SCHEDULE SCALE: N.T.S.



		LIGHTING FIXTURE SCHED	ULE		
TYPE	DESCRIPTION	MANUFACTURER & MODEL #	LAMPS/TEMP/VA	VOLTAGE	REMARKS
	2X4 VOLUMETRIC RECESSED LIGHTING CURVED SMOOTH DIFFUSER	LITHONIA #2BLT4 48L ADSM XX LP840 XX METALUX #24CZ-LD4-50-S-UNV-L840-CD1 LSI LPEC24-LED-HO-NW-UE	LED 4000K 45	120/277	
AE	2X4 VOLUMETRIC RECESSED LIGHTING CURVED SMOOTH DIFFUSER 1400 LUMEN BATTERY PACK	LITHONIA #2BLT4 48L ADSM XX LP840 XX EL14L METALUX #24CZ-LD4-50-S-UNV-EL14W-L840-CD1 LSI LPEC24-LED-HO-NW-UE-EM	LED 4000K 45	120/277	
В	2X4 VOLUMETRIC RECESSED LIGHTING CURVED SMOOTH DIFFUSER	LITHONIA #2BLT4 30L ADSM XX LP840 XX METALUX #24CZ-LD4-35-S-UNV-L840-CD1 LSI LPEC24-LED-SS-NW-UE	LED 4000K 30	120/277	
	2X4 VOLUMETRIC RECESSED LIGHTING CURVED SMOOTH DIFFUSER 1400 LUMEN BATTERY PACK	LITHONIA #2BLT4 30L ADSM XX LP840 XX EL14L METALUX #24CZ-LD4-35-S-UNV-EL14W-L840-CD1 LSI LPECC24-LED-SS-NW-UE-EM	LED 4000K 30	120/277	
С	4" RECESSED DOWNLIGHT	LITHONIA #LDN4 40/10 LO4 AR MVOLT	LED 4000K 13	120/277	
CE	4" RECESSED DOWNLIGHT EMERGENCY BATTERY PACK	LITHONIA #LDN4 40/10 LO4 AR MVOLT EL	LED 4000K 13	120/277	
D	4' RECESSED FIXTURE	FINELITE #HP-6R-4-40-H-F-120-SC FORUM SRZ-46REC-LED-65-40-SAT-4-120-WH	LED 4000K 32	120/277	
F4	4' FINELITE HP4 RECESSED	FINELITE #HP-4 R 4' S 840 F 120 SC XX	LED 4000K 20	120	
F8	8' FINELITE HP4 RECESSED	FINELITE #HP-4 R 8' S 840 F 120 SC XX	LED 4000K 40	120	
	ARCHITECTURAL WALL SCONCE TYPE III DISTRIBUTION FINISH AS SELECTED BY ARCHITECT	LITHONIA #WST LED 2 10A700/40K SR3 MVOLT XX	LED 4000K 53 W	120/277	
Х	UNIVERSAL EXIT LIGHT WITH BATTERY PACK,	LITHONIA #LQMSW3R120/277ELN	LED'S FURNISHED	120/277	

4 ELECTRICAL LIGHTING FIXTURE SCHEDULE SCALE: N.T.S.

MECHANICAL EQU	IIPMENT			DISCONNECTING MEANS AND/OR
UNIT DESIGNATION	CIRCUIT DESIGNATION	LOCATION	NOTES	BRANCH CIRCUIT SIZE
RTU-1	HA-2,4,6	ROOF	1	30/-/3 NEMA 3R DISCONNECT, 3#12, #12G, 1/2°C
RTU-2	HA-8,10,12	ROOF	1	30/-/3 NEMA 3R DISCONNECT, 3#10, #10G, 1/2"C
EF-1	LA-26	MEN 111	2,3	2#12, #12G, 1/2°C
EF-2	LA1-26	WOMENS 112	2,3	2#12, #12G, 1/2°C
WH-1	LA1-22,24	JANITOR 118		30/-/2 DISCONNECT, 2#10, #10G, 1/2"C
B. ELECTRICAL CONTRA NOTES: 1. FURNISH AND INSTA		MA 1 ENCLOSED, UNO. 15 AND FURNISH AND INSTALL POWER FOOLY & RETURN DUCT. FURNISH AND INST		WN CONTROL.

5 ELECTRICAL - MECHANICAL EQUIPMENT CONNECTION SCHEDULE SCALE: N.T.S.

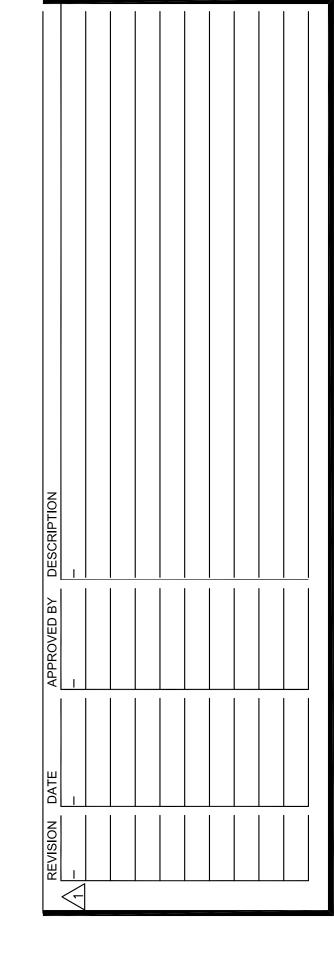
	FEEDER / BRANCH CIRCUIT SCHEDULE							
		PHASE	NEUTRAL	GROUND				
MARK	RACEWAY	CONDUCTORS	CONDUCTORS	CONDUCTORS	REMARKS			
1000	2"	3#3/0	1#3/0	1#6				
2000	1"	3#4		1#8				
3000	1 1/2"	3#1/0	1#1/0	1#6				
4000	1 1/2"	3#2	1#3/0	1#8				

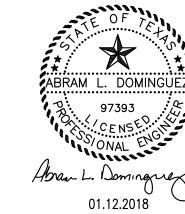
6 ELECTRICAL FEEDER/BRANCH CIRCUIT SCHEDULE SCALE: N.T.S.



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CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

971704 1/12/2018 E2.00 ELEC LEGEND, RISER

DIAGRAM AND SCHEDS

3 ELECTRICAL RISER DIAGRAM SCALE: N.T.S.

MEP SOLUTIONS ENGINEERING MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

400 A MA	AIN CIRCUIT	BREAKER	L X I) HASE 4 WIRE AL - 100%; EQUIPMENT GROUND; ISOLATED G		PΑ	INE	ΓD	UAKI	D CH1	14,000 A	MOUNTING:		
VA:L	VA:R	VA:0	LOAD	BKR	СКТ	PH	СКТ	BKR	LOAD	VA:L	VA:R	VA:0	
		30331	EXISTING PANEL CH2	175/3	1	Α	2	175/3	EXISTING TRANSFORMER CL2			2500	
		29181		-	3	В	4		"			2500	
		25531	n	-	5	С	6	_	"			2500	
_			EXISTING CHILLER	45/3	7	Α	8	100/3	EXISTING ATS/PANEL ECH			1257	
			n	_	9	В	10	-	"			832	
			"		11	С	12		"			700	
			EXISTING TVSS	30/3	13	A	14		SPARE				
			79		15	В	16	_	["				
			CDAOE	- 00 /4	17	C	18	- 00 /4	CDAOF				
			SPACE SPACE	20/1	19 21	A B	20 22		SPACE SPACE				
			SPACE	20/1 20/1	23	С	24		SPACE				
			SPACE	20/1	25	A	26		PANEL HA	2019	5400	1454	
			SPACE	20/1	27	В	28		"	1273	3600	1570	
			SPACE	20/1	29	C	30	_		577	5040	1450	
VA:L (LIGHTING) 3869 VA:R (RECEPTACLES) 14040 VA:O (OTHER) 232690 VA: TOTAL 250599 AMPS: TOTAL 301					ED ED ED			4836 DEMAND 12020 DEMAND 232690 DEMAND 249546 DEMAND 300 DEMAND					
L 2019 1273 577 3869		0 82448 78206 72036 232690	VA CONNECTED TO B PHASE VA CONNECTED TO C PHASE	83079) VA = 5 VA =	=		300	AMPS CONNECTED TO A PHASE @ 277 VOLTO AMPS CONNECTED TO B PHASE @ 277 VOLTO AMPS CONNECTED TO C PHASE @ 277 VOLTO	rs			

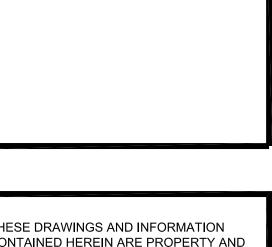
/OLTAGE: 4	480Y/277	VOIT 3 P	HASE 4 WIRE								LOCATIO	N∙ BUUN
	N LUGS O		TAGE T WINE								MOUNTING:	
			A ARREST CONTRACTOR OF CHARLES									
BUSES: MA	T T		AL - 100%; EQUIPMENT GROUND		i	i	i			18,000 A		
VA:L	VA:R	VA:0	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:0
1434			LIGHTING RM 101	20/1	1	Α	2	20/3	RTU-1			3
1048			LIGHTING RM E103	20/1	3	В	4	-	"			3
352			LIGHTING CORR 02/105/106&4TYP C	20/1	5	С	6	-	"			3
585			LIGHTING OFFICES&CONFRENCE RM	20/1	7	Α	8	30/3	RTU-2			5
225			MENS RR 111	20/1	9	В	10	-	"			5
225			WOMENS RR 112	20/1	11	С	12	_	n			5
			SPARE	20/1	13	Α	14	20/1	SPARE			
			SPARE	20/1	15	В	16	20/1	SPARE			
			SPARE	20/1	17	С	18	20/1	SPARE			
			SPARE	20/1	19	Α	20	20/1	SPARE			
			SPARE	20/1	21	В	22	20/1	SPARE			
			SPARE	20/1	23	С	24	20/1	SPARE			
			SPACE	20/1	25	Α	26	20/1	SPACE			
			SPACE	20/1	27	В	28	20/1	SPACE			
			SPACE	20/1	29	С	30	20/1	SPACE			
			SPACE	20/1	31	Α	32	20/1	SPACE			
			SPACE	20/1	33	В	34	20/1	SPACE			
			SPACE	20/1	35	С	36	20/1	SPACE			
			SPACE	100/3	37	Α	38	90/3	PANEL LA1		5400	
			SPACE	-	39	В	40	_	VIA XFMR TLA1		3600	
			SPACE	_	41	С	42	_	,		5040	4
/A.L. /LIQUE	TIMO)		7000	CONNECT	ED.				407/	6 DEMAND		
/A:L (LIGH				CONNECT						DEMAND		
/A:R (RECI				CONNECT						7 DEMAND		
/a:0 (othi /a: total	LK)			CONNECT						7 DEMAND 3 DEMAND		
AMPS: TOTAL	'A I			CONNECT						DEMAND		
AMPS: IUI	AL		/5	CONNECT	ED				/*	+ DEMAND		
L	R	0		TOTAL								
2019	5400	14547	VA CONNECTED TO A PHASE		5 VA =	=		7	9 AMPS CONNECTED TO A PHASE @ 277 VOLT	rs		
1273	3600	15705							4 AMPS CONNECTED TO B PHASE @ 277 VOL			
577	5040	14505							3 AMPS CONNECTED TO C PHASE @ 277 VOL			
3869	14040	44757		62666				,,	5 5 55111E01E5 15 6 11110E 6 277 VOE			

				PANEL	$^{-}$	<i>) </i>	10					
VOLTAGE:	208Y/120	VOLT 3 PH	HASE 4 WIRE								LOCATIO	N: R00
150 A MA	AIN CIRCUIT	BREAKER									MOUNTING:	SURFAC
BUSES: M	MAIN - 225	A; NEUTRA	AL – 100%; EQUIPMENT GROUND; ISOLATED	GROUND					lsc =	= 10,000 A	RMS SYM A	VAILABL
VA:L	VA:R	VA:0	LOAD	BKR	СКТ	PH	СКТ	BKR	LOAD	VA:L	VA:R	VA:0
		500	MOTORIZED SCREEN	20/1	1	Α	2	20/1	RECEPTACLES		720	
	1080		RECEPTACLES	20/1	3	В	4	20/1	MOTORIZED SCREEN			
	360		RECEPTACLES	20/1	5	C	6	20/1	RECEPTACLES		720	
		900	REFRIGERATOR	20/1	7	Α	8	20/1	RECEPTACLES		720	
		500	COUNTER RECEPTACLE	20/1	9	В	10	20/1	RECEPTACLES		720	
		500	COUNTER RECEPTACLE	20/1	11	С	12	20/1	RECEPTACLES		720	
			COUNTER RECEPTACLE	20/1	13	Α	14	20/1	RECEPTACLES		720	
			COUNTER RECEPTACLE	20/1	15	В	16	20/1	RECEPTACLES		720	
		500	COUNTER RECEPTACLE	20/1	17	С	18	20/1	RECEPTACLES		360	
	720		RECEPTACLES	20/1	19	Α	20	20/1	RECEPTACLES			
		1200	EWC	20/1	21	В	22	30/2	WH-1			2
		1500	HAND DRYER	20/1	23	С	24	-	"			2
		1500	HAND DRYER	20/1	25	Α	26	20/1	EF-1/EF-2			1.
	360		RECEPTACLES	20/1	27	В	28	20/1	SPARE			
	1080		RECEPTACLES	20/1	29	С	30	20/1	SPARE			
			SPARE	20/1	31	Α	32	20/1	SPACE			
			SPARE	20/1	33	В	34	20/1	SPACE			
			SPARE	20/1	35	С	36	20/1	SPACE			
			SPACE	20/1	37	Α	38	100/3	PANEL "LA2"		2520	
			SPACE	20/1	39	В	40	-	n		720	1
			SPACE	20/1	41	С	42	_	n		1800	
VA:L (LIGH VA:R (REC VA:O (OTH VA: TOTAL AMPS: TO	CEPTACLES) HER) -		15	CONNECT 040 CONNECT 492 CONNECT 532 CONNECT 82 CONNECT	ED ED ED				1549 2751	DEMAND 0 DEMAND 2 DEMAND 2 DEMAND 6 DEMAND		
L	R	0		TOTAL								
	5400	4792							5 AMPS CONNECTED TO A PHASE @ 120 VOL			
	3600	5950) VA =				O AMPS CONNECTED TO B PHASE @ 120 VOL			
	5040	4750	VA CONNECTED TO C PH	ASE 9790) VA =	=		8	2 AMPS CONNECTED TO C PHASE @ 120 VOL	75		

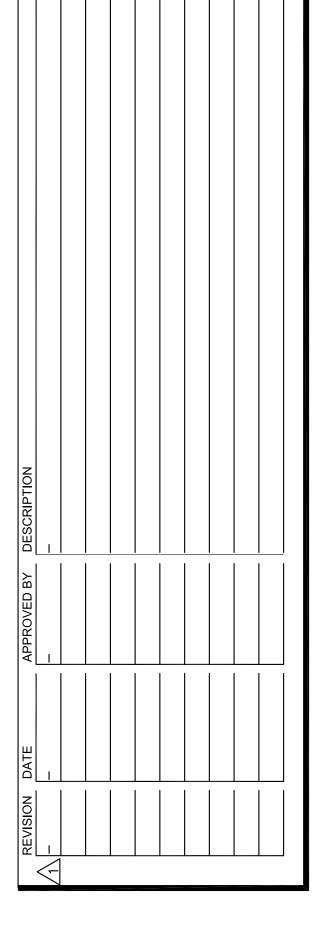
VOI TAGE:	208Y/120 V	VOLT 3 PI	HASE 4 WIRE		ANE									LOCATIO	N. BUUM
	AIN LUGS ON		IASE T WINE										1	MOUNTING:	
			AL — 100%; EQUIPMENT GROUND; ISOLA	AIED GR						1	IS	<u>c = </u>	10,000 A	RMS SYM A	VAILABLE
VA:L	VA:R	VA:O	LOAD		BKR	CKT	PH	CKT	BKR		LOAD		VA:L	VA:R	VA:O
	720		COMPUTERS		20/1	1	Α	2	20/1	COMPU	ITERS			720	
		500	PROJECTOR		20/1	3	В	4	20/1	PROJEC	CTOR				50
	360		COMPUTERS		20/1	5	C	6		COMPU				720	
	360		COMPUTERS		20/1	7	Α	8		COMPU				720	
	720		COMPUTERS		20/1	9	В	10		SPARE					
	720		COMPUTERS		20/1	11	С	12		SPARE					
			SPARE		20/1	13	Α	14		SPARE					
			SPARE		20/1	15	В	16		SPARE					
			SPARE		20/1	17	С	18		SPARE					
			SPARE		20/1	19	Α	20		SPACE					
			SPARE		20/1	21	В	22		SPACE					
			SPARE		20/1	23	С	24		SPACE					
			SPACE		20/1	25	Α	26		SPACE					
			SPACE		20/1	27	В	28		SPACE					
			SPACE		20/1	29	С	30		SPACE					
			SPACE		20/1	31	Α	32		SPACE					
			SPACE		20/1	33	В	34		SPACE					
			SPACE		20/1	35	C	36		SPACE					
			SPACE		20/1	37	A	38		SURGE	PROTECTIVE DEVICE				
			SPACE		20/1	39	В	40	_	,,					
			SPACE		20/1	41	С	42							
'A:L (LIG	LITING)				CONNECT	ED							DEMAND		
/A.L (LIGI	CEPTACLES)			5040	CONNECT						1	5040	DEMAND		
'A:0 (0T)					CONNECT								DEMAND		
/A.O (OII /A: TOTAL	TER)				CONNECT								DEMAND		
MPS: TO					CONNECT						·		DEMAND		
L	R	0			TOTAL										
	2520		VA CONNECTED TO A	PHASE) VA =			21	AMPS	CONNECTED TO A PHASE @ 120 '	VOLTS	S		
	720	1000	VA CONNECTED TO B) VA =			14	AMPS	CONNECTED TO B PHASE @ 120	VOLTS	5		
	1800		VA CONNECTED TO C	PHASE) VA =	=		15	AMPS	CONNECTED TO C PHASE @ 120	VOLTS	6		
	5040	1000	TOTAL	_	6040	VA									



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CITY OF PHARR
INTERNATIONAL
BRIDGE FACILITY
EXPANSION AND
RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS 78507

Project: Date: Revised:

MEP SOLUTIONS ENGINEERING

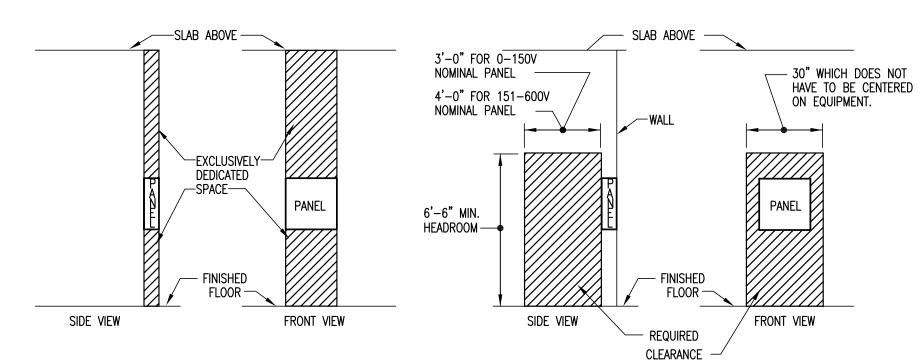
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748 971704 1/12/2018

Date: 1/12/20 Revised: 1/12/20

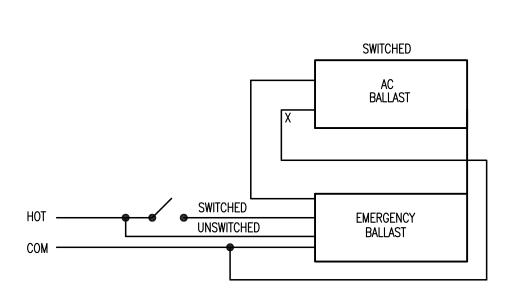
ELECTRICAL PANEL

SCHEDULES

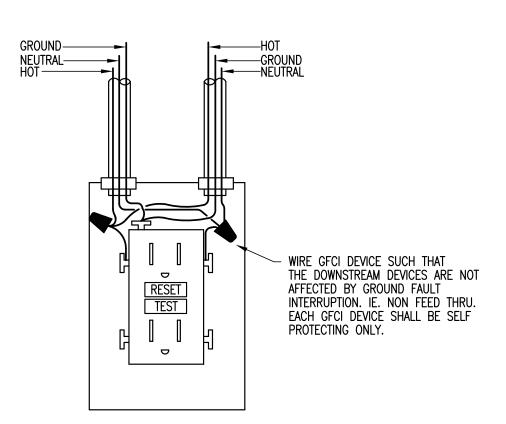
3 ELECTRICAL PANEL SCHEDULES SCALE: N.T.S.



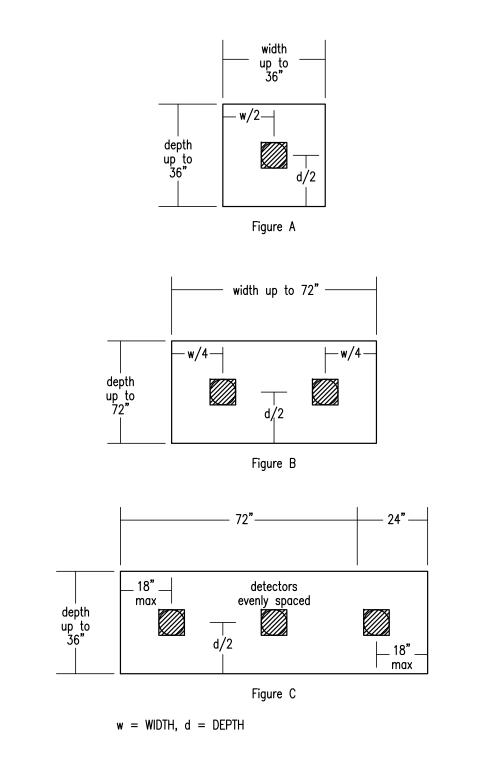
1 TYPICAL PANELBOARD REQUIRED CLEARANCE



2 EMERGENCY BALLAST WIRING DETAIL



3 GFCI RECEPTACLE - WIRING DIAGRAM
SCALE: N.T.S.



NOTES:

INSTALL PENDANT MOUNTED IONIZATION DETECTORS
LISTED FOR THE AIR VELOCITY PRESENT AT THE
OPENING WHERE THE RETURN AIR ENTERS THE
COMMON RETURN AIR SYSTEM. THE DETECTORS
SHALL BE INSTALLED UP TO 12 INCHES MAXIMUM IN
FRONT OF THE OPENING AND SPACED ACCORDING TO
THE FOLLOWING OPENING DIMENSIONS.

(1) WIDTH:

UP TO 36 IN. — ONE DETECTOR CENTERED
IN OPENING (FIGURE A)

UP TO 72 IN. — TWO DETECTORS LOCATED AT THE 1/4 POINTS OF THE OPENING (FIGURE B)

OVER 72 IN. — ONE ADDITIONAL DETECTOR FOR EACH FULL 24 IN. OF OPENING (FIGURE C)

THE NUMBER AND SPACING OF THE
DETECTOR(S) IN THE DEPTH (VERTICAL) OF
THE OPENING SHALL BE THE SAME AS THOSE
GIVEN FOR THE WIDTH (HORIZONTAL)
ABOVE

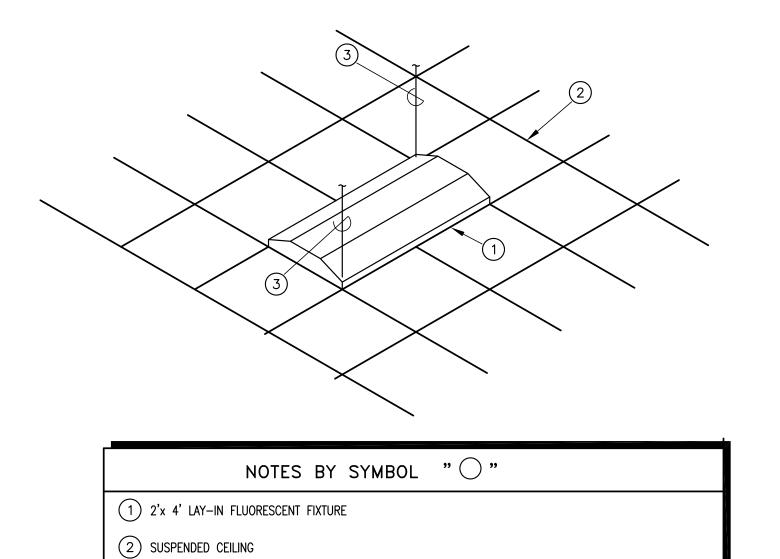
(3) ORIENTATION:
DETECTORS SHALL BE ORIENTED IN THE
MOST FAVORABLE POSITION FOR SMOKE
ENTRY WITH RESPECT TO THE DIRECTION
OF AIR FLOW.

DETECTORS FOR RETURN AIR BAFFLE WALLS
SHALL BE MOUNTED LOW BETWEEN BAFFLE WALLS SO AS
TO BE VISIBLE FROM WITHIN THE MECHANICAL SPACE. PROVIDE
REMOTE TEST STATIONS AS REQUIRED.

LOCATION OF IONIZATION DETECTOR (S)

IN RETURN AIR SYSTEM

SCALE: N.T.S.



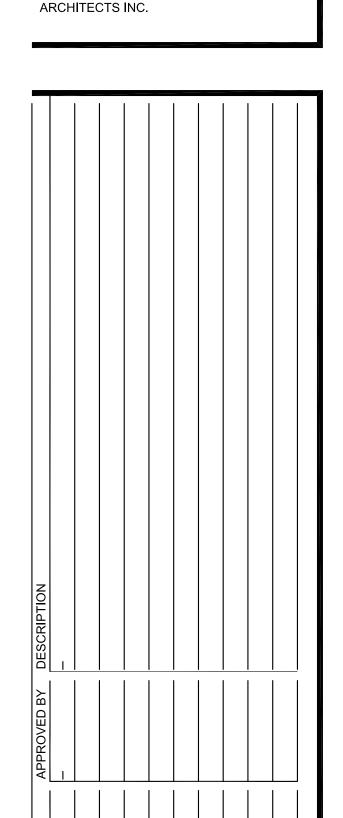
5 TYPICAL LAY-IN FIXTURE SUPPORT

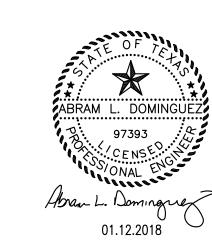
3 TIE WIRE, CONNECT TO TWO CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS.



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CITY OF PHARR
INTERNATIONAL
BRIDGE FACILITY
EXPANSION AND
RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

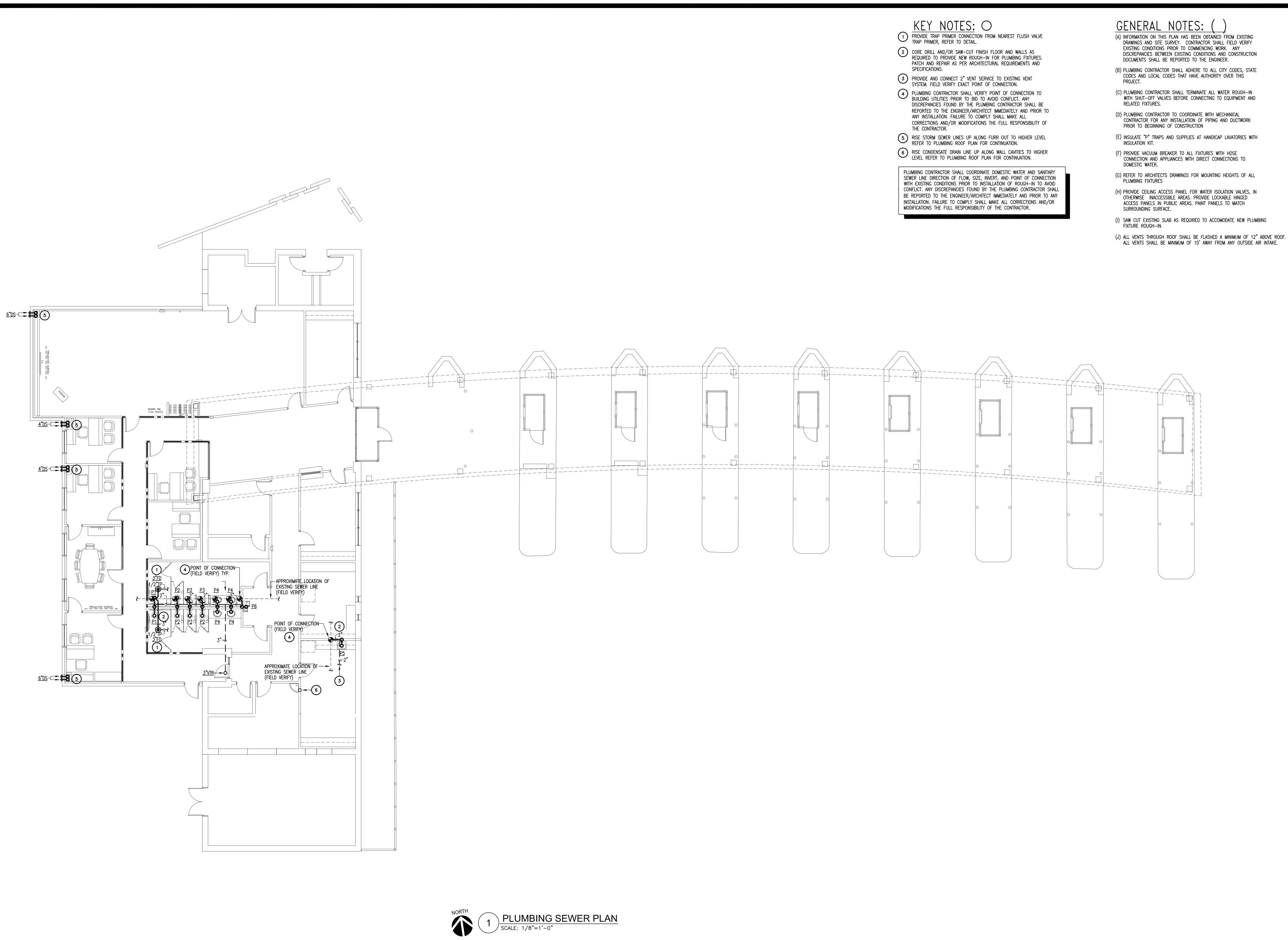
Project: Date: Revised:

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MEP SULUTIONS
ENGINEERING

MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

ELECTRICAL
DETAILS

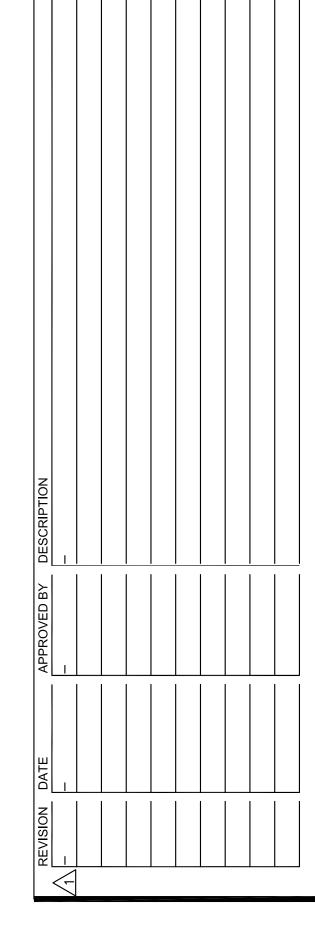


- (I) SAW CUT EXISTING SLAB AS REQUIRED TO ACCOMODATE NEW PLUMBING



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CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

MEP SOLUTIONS ENGINEERING

MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727

TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

971704 1/12/2018

P1.01 **PLUMBING** SEWER PLAN



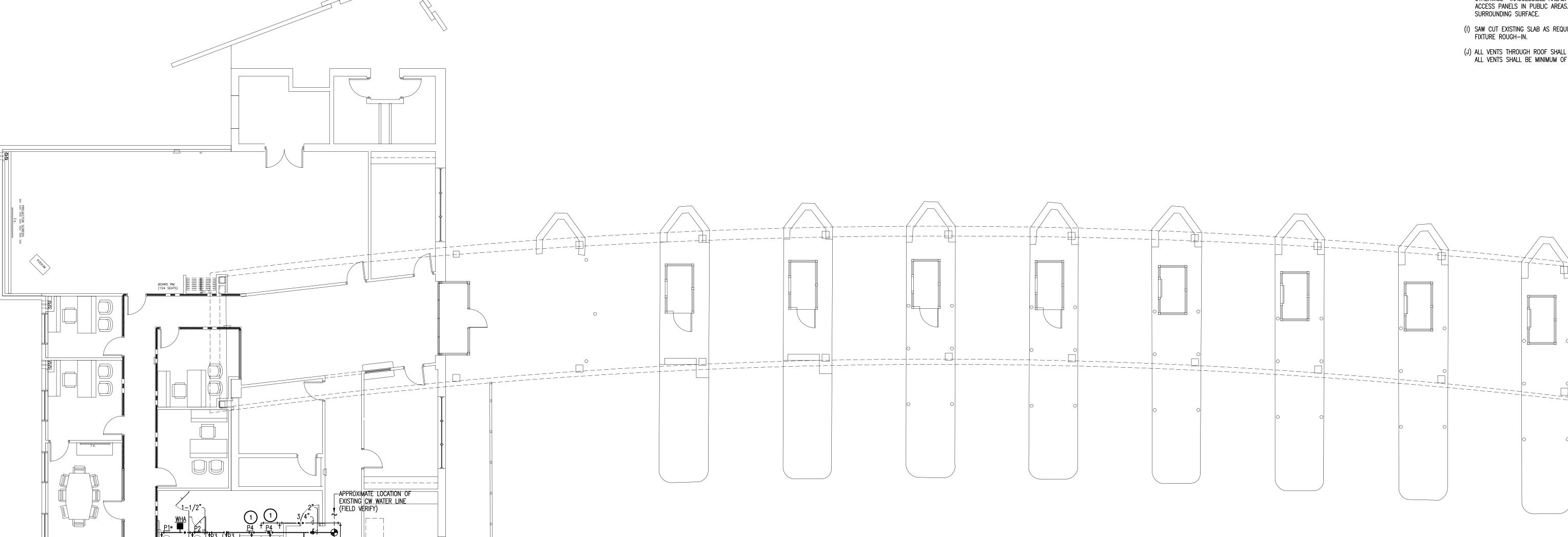
- KEY NOTES:

 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 PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING 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.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN 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.

GENERAL NOTES: (

- (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
- (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
- (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.



		PLUMBING	SYMBOL	LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
• —	DOMESTIC COLD WATER LINE		BALL VALVE	——II——	UNION	CW	COLD WATER
• •	DOMESTIC HOT WATER LINE		BALANCING VALVE	—	BRANCH — TOP CONNECTION	DN	DOWN
- • • •	DOMESTIC HOT WATER RETURN LINE		CHECK VALVE		PIPE RISER	F.F.E.	FINISH FLOOR ELEVATION
TW	DOMESTIC TEMPERED WATER LINE	 ₩	GATE VALVE	С+	PIPE DROP	FU	FIXTURE UNITS
	SANITARY SEWER VENT LINE	—O FCO	FLOOR CLEANOUT		THERMOMETER	GW	GREASE WASTE
	SANITARY WASTE LINE	—O YC0	YARD CLEANOUT		DIRECTION OF FLOW	I.E.	INVERT ELEVATION
—CD——	CONDENSATE LINE		FLOOR SINK	- CV	CALIBRATING VALVE	HW	HOT WATER
—-GW-—-	GREASE WASTE LINE		FLOOR DRAIN	Ļ +ıwco	WALL CLEANOUT	SS	SANITARY SEWER
—GAS——	GAS LINE	- @	ROOF DRAIN	P 1	PLUMBING RISER DESIGNATION	TP	TRAP PRIMER
— AIR ——	AIR LINE	•	POINT OF CONNECTION	02 P-3.1	PLUMBING DETAIL REFERENCE	TYP	TYPICAL
—— AW ———	ACID WASTE LINE	+ C +	WALL HYDRANT	ABV. CLG.	ABOVE CEILING	UND. LAV.	UNDER LAVATORY
— RD ——	ROOF DRAIN LINE	\$ C+	HOSE BIBB	B.F.F.	BELOW FINISH FLOOR	V	VENT
OD	OVERFLOW DRAIN LINE	WHA	WATER HAMMER ARRESTOR	СО	CLEAN OUT	VTR	VENT THRU ROOF



PROJECTOR SCREEN

POINT OF CONNECTION— (FIELD VERIFY) TYPICAL

_ _ _ _ _ _ _ _ _ _ _ _





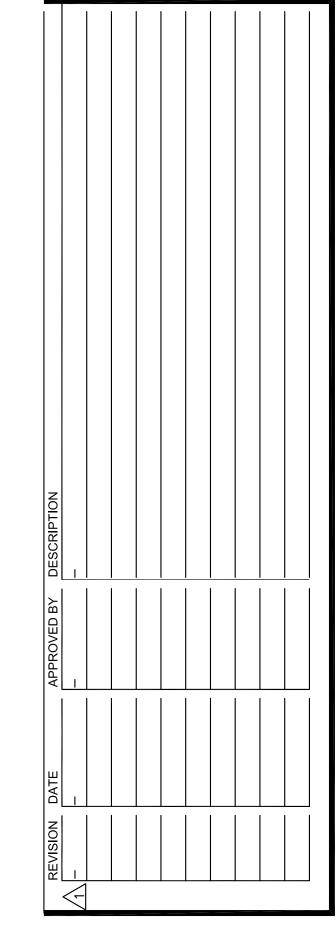
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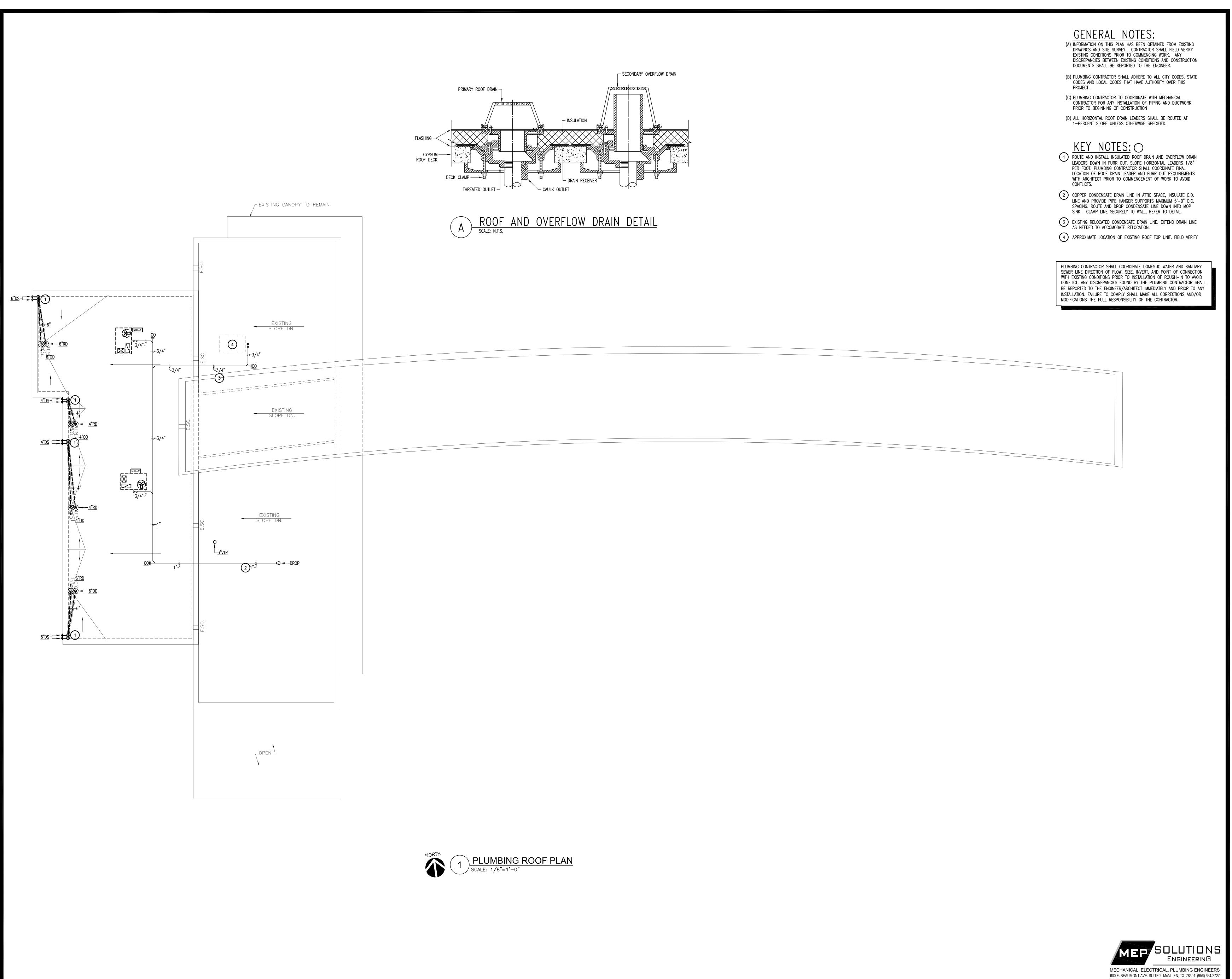


CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

971704 1/12/2018

P1.02 **PLUMBING** HW/CW PLAN

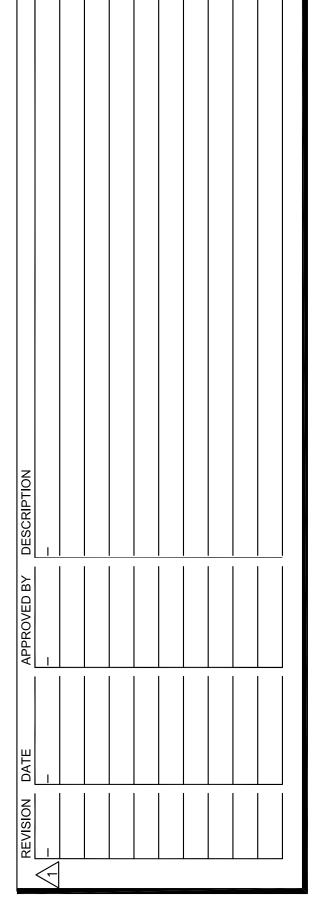




1801 SOUTH SECOND ST. SUITE 330 McALLEN, TX 78503 9 5 6 . 9 9 4 . 1 9 0 0 † w g a r c h . c o m

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CITY OF PHARR
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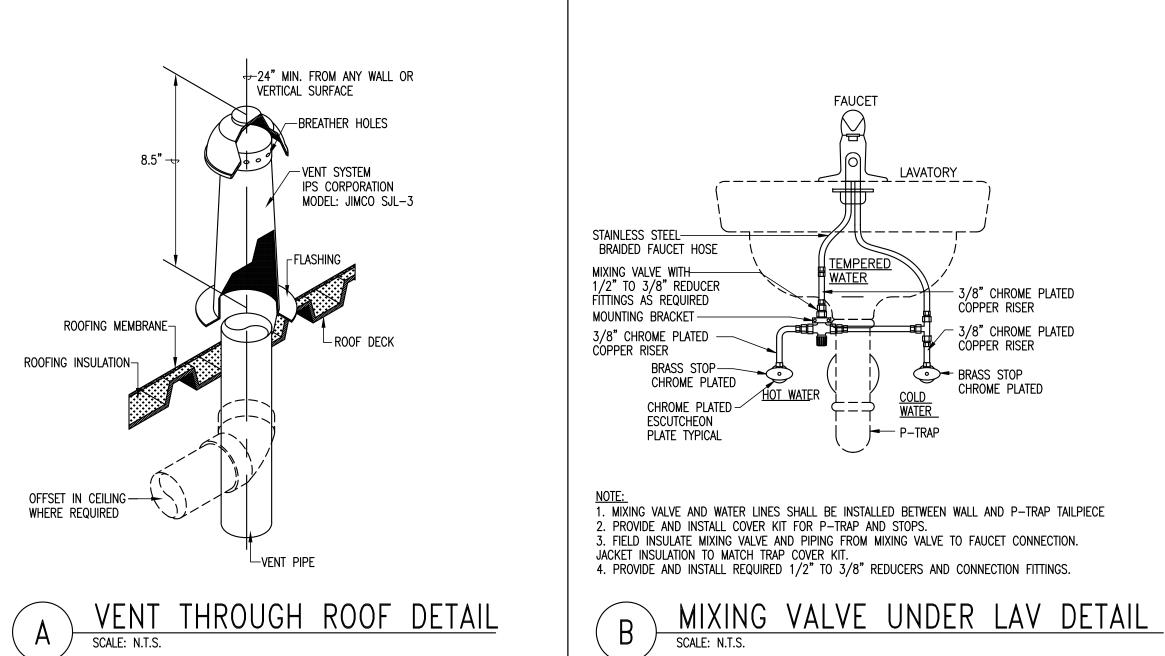
LOT 3 GSA SUBDIVISION PHARR, TEXAS

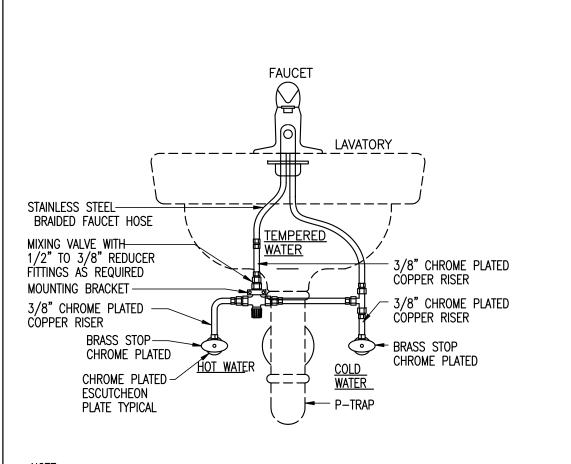
Project: Date: Revised:

TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

971704 1/12/2018

P1.03
PLUMBING
ROOF PLAN



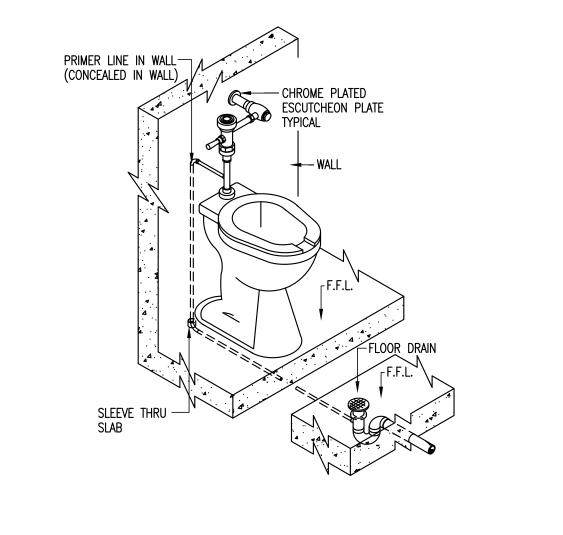


-VACUUM BREAKER

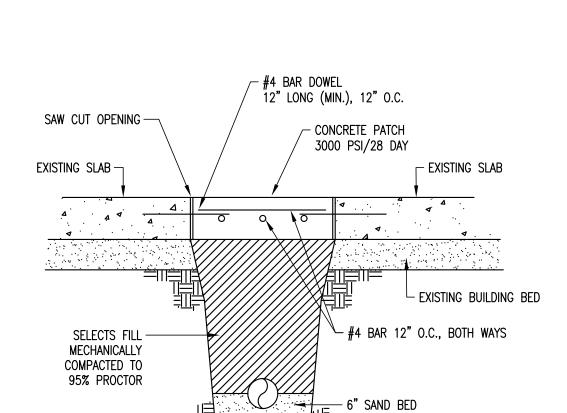
THREADED END CAPS

-UNION

OPEN TO ATMOSPHERE



FLUSH VALVE TRAP PRIMER DETAIL
SCALE: N.T.S.



UNDISTURBED SOIL ----

STOP INSULATION BOTH — SIDES OF PIPE SUPPORT (TYPICAL)

INSULATED HOT WATER — SERVICE LINE CONCEALED

IN WALL REFER TO PLAN

1/2"x12" AIR CHAMBER -CONCEALED IN WALL

HOT WATER SERVICE LINE — REFER TO PLAN

SOLE PLATE-

VENT LINE — REFER TO PLAN

-COPPER TUBING CLIP WITH

-INSULATED COLD WATER SERVICE LINE CONCEALED

IN WALL REFER TO PLAN

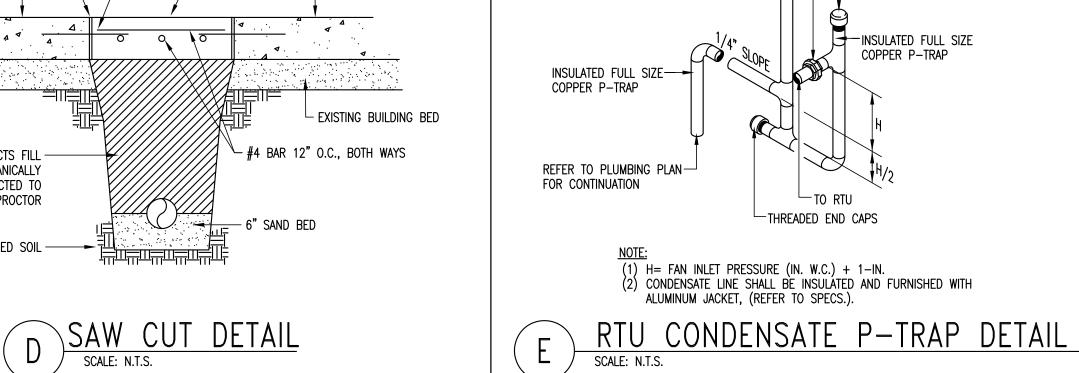
----620L 1/2"x12" AIR CHAMBER CONCEALED IN WALL

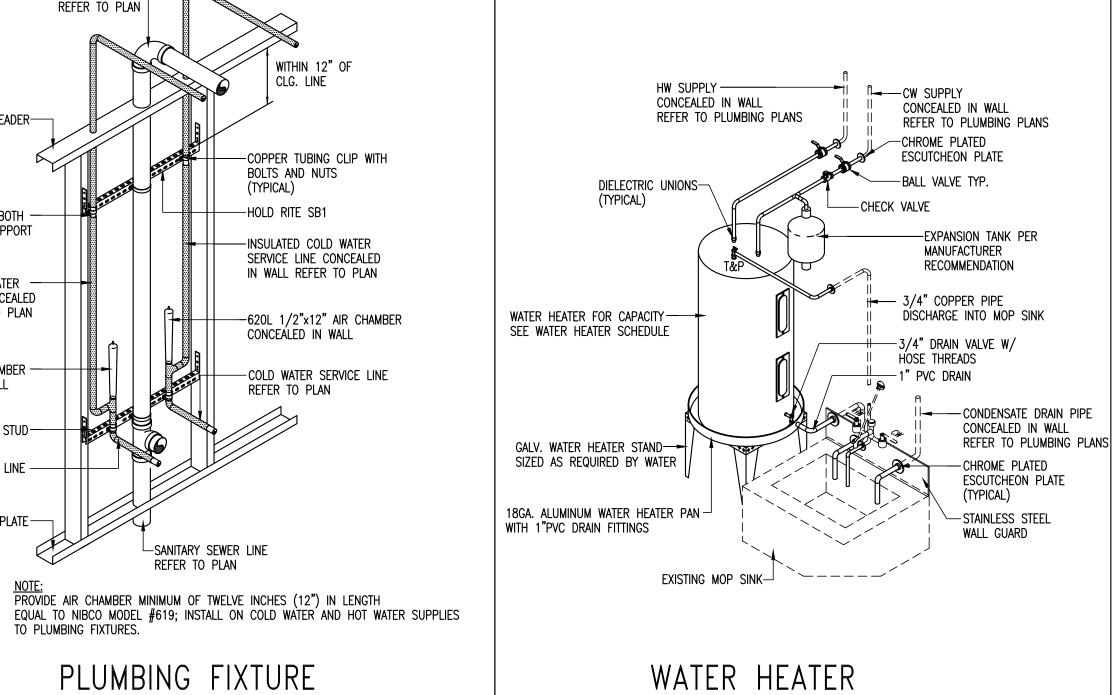
SANITARY SEWER LINE REFER TO PLAN

PLUMBING FIXTURE

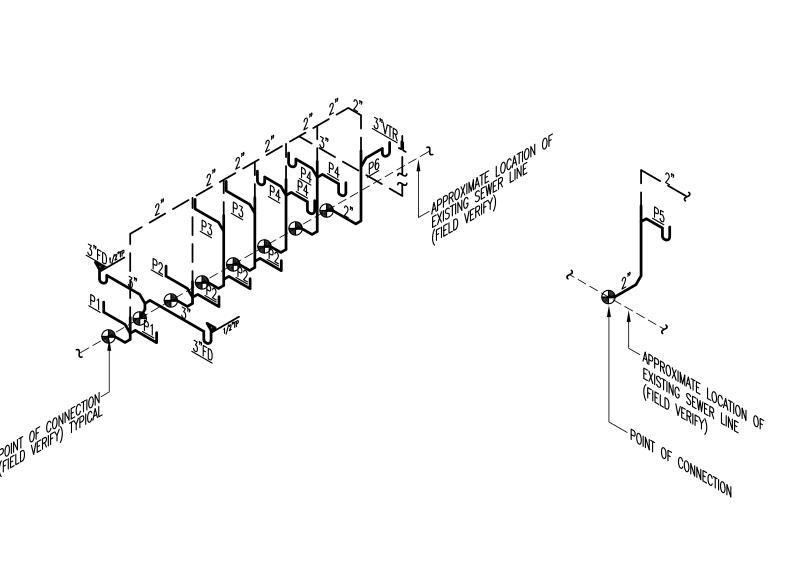
INSTALLATION DETAIL
SCALE: N.T.S.

BOLTS AND NUTS





PLATFORM MOUNTING DETAIL
SCALE: N.T.S.

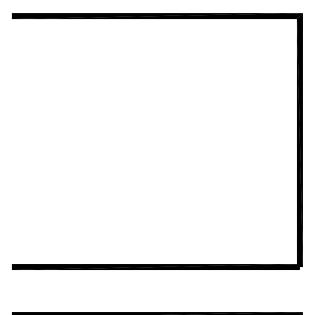


PLUMBING SEWER RISER SCHEMATIC DIAGRAM
SCALE: N.T.S.

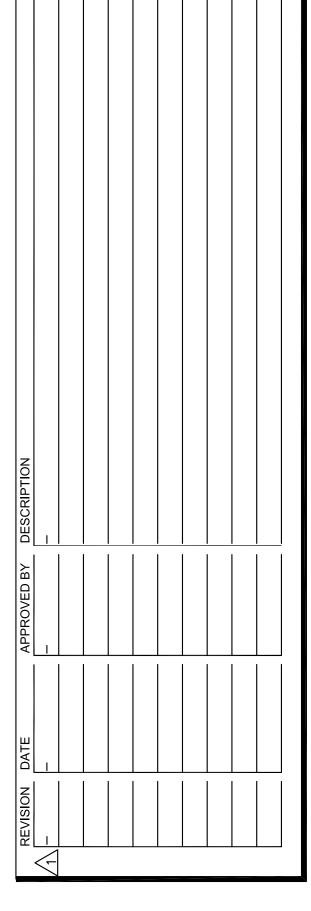
			CONNECT	TON SIZE							
MARK FIXTURE TYPE					HW	DESCRIPTION					
P1	WATER CLOSET (HANDICAP)	4"	2"	1"	-	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUD. ZURN "ECOVANTAGE" MODEL "Z5665-BWL". 16-3/4" RIM HEIGHT, 1.6 GPF, 10" ROUGH-IN, SIPHON JET ACTION WITH SLOAN "ROYAL" FLUSH MODEL "111-TP" WITH TRAP PRIMER CONNNECTION WHERE SHOWN ON PLANS, BENEKE MODEL "533" OPEN FRONT SEAT LESS COVER.					
P2	WATER CLOSET	4"	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 SEAT 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 TO WALL DISTANCE. EQUAL TO ZURN MODEL "Z5730" WITH SLOAN ROYAL "186-1" FLUSH VALVE AND APPROVED CARRIER SYSTEM.					
P4	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 MODEL "Z5114". COMPLETE WITH LAVATORY FAUCET MOEN MODEL "8413F15". CHROME FINISH, SINGLE LEVER HANDLE, 1.5 GPM FLOW, ADA APPROVED AND PROTECTIVE COVER ON P-TRAP.					
P5	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"X21"X6", 3 HOLES ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH MOEN MODEL "8289" SWING GOOSENECK SPOUT, CHROMED METAL WRIST BLADE HANDLES, DECK MOUNT FAUCET AND "LK-35" STRAINER WITH BASKET.					
P6	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 CLOSING CONTROLS ON FRONT AND SIDE, STAINLESS STEEL BASIN. FLEX-GUARD BUBBLER CAPABLE OF DELIVERING 8.0 GPH OF 50°F WATER WITH 80°F INLET WATER AND 90°F ROOM TEMPERATURE. FURNISH WITH CARRIER AND APRON.					
WH-1	WATER HEATER	-	_	3/4"	3/4"	30 GALLON WATER HEATER SHALL BE EQUAL TO A RHEEM MODEL "ELDS30". IT SHALL BE 208V/10 4.5KW WITH A RECOVERY OF 30 GALLONS PER HOUR @ 60°F RISE. PROVIDE AND INSTALL EXPANSION TANK AS PER MANUFACTURER RECOMMENDATIONS.					
3"FD	GENERAL DUTY FLOOR DRAIN	3"	2"	_	-	ZURN MODEL "Z-415-B" LACQUERED CAST IRON FLOOR DRAIN. FURNISH COMPLETE WITH "TYPE B" NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.					
RICB	REFRIGERATOR ICE CONNECTION BOX	-	-	1/2"	-	GUY GRAY MODEL "BIM-875" ICE CONNECTION BOX.					
WHA	WATER HAMMER ARRESTOR	-	_	_	_	WATER HAMMER ARRESTOR FOR GANG RESTROOMS SHALL BE EQUAL TO ZURN SHOKTROL MODEL #300, 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 DECK CLAMP.					
DS	DOWN SPOUT NOZZLE	-	_	_	_	ZURN MODEL "ZANB-199" NICKEL BRONZE DOWN SPOUT NOZZLE WITH THREADED INLET AND WALL FLANGE.					



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PROPOSED CITY OF PHARR INTERNATIONAL BRIDGE FACILITY **EXPANSION AND** RENOVATIONS

LOT 3 GSA SUBDIVISION PHARR, TEXAS

971704 1/12/2018

P2.00 **PLUMBING** SCHEDULES

MEP SOLUTIONS ENGINEERING MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748