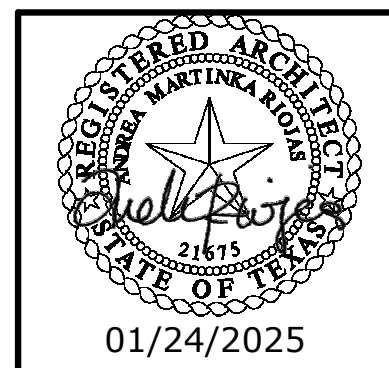


PHASE III RENOVATION

WORKFORCE SOLUTIONS 4981 AYERS STREET CORPUS CHRISTI, TX 78415



CONSTRUCTION DOCUMENTS
01/24/2025

Garza + McLain
www.garza-mclain.com
STRUCTURAL ENGINEERS, INC.
13313 Southwest Freeway, Suite 163
Sugar Land, Texas 77478
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615 N. Upper Broadway
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Corpus Christi, TX 78401-0750
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NRG Engineering
Mechanical - Electrical - Plumbing
5656 S. Staples Suite 360
Corpus Christi, TX 78411
T: 361-852-2727
F: 361-852-2922

PROJECT CODE SUMMARY

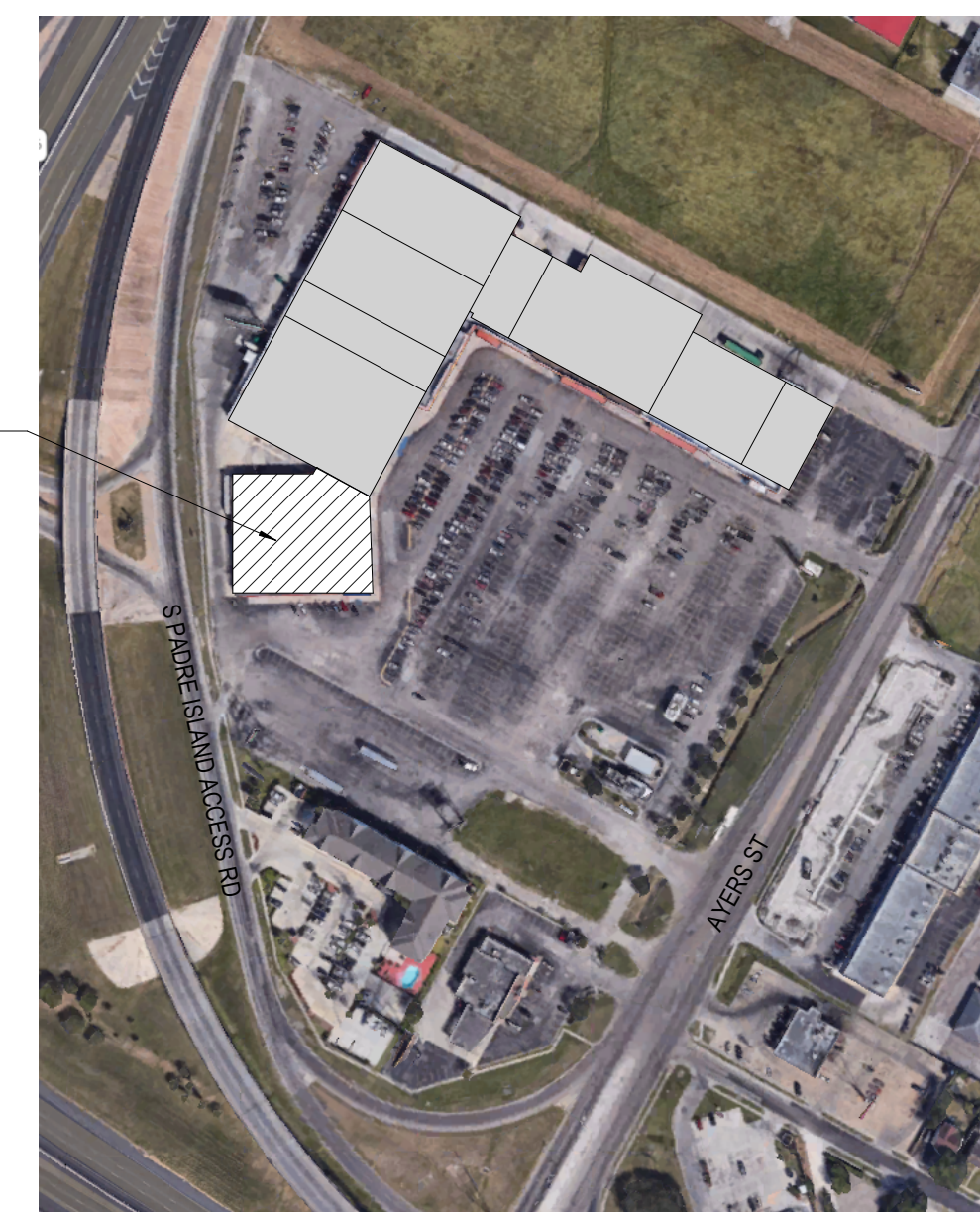
APPLICABLE CODES & REGULATIONS:	LOCAL ORDINANCES:
2021 ICC INTERNATIONAL BUILDING CODE	
2021 ICC EXISTING BUILDING CODE	
2021 ICC ENERGY CONSERVATION CODE	
2015 ICC INTERNATIONAL FIRE CODE	
2021 ICC FUEL GAS CODE	
2021 ICC MECHANICAL CODE	
2021 ICC PLUMBING CODE	
2020 NFPA NATIONAL ELECTRIC CODE	
2012 TEXAS ACCESSIBILITY STANDARDS	
AMERICANS WITH DISABILITIES ACT, TITLE III	
PROJECT SQUARE FOOTAGE:	
RENOVATION:	6,340 SF
OCCUPANCY & AREA	DETERMINATION REFERENCE
OCCUPANCY TYPE:	B, A IBC SECTION 304.1
OCCUPANT LOAD:	278 IBC 2015 TABLE 1004.1.2
CONSTRUCTION TYPE:	TYPE II-B IBC CH. 6
ALLOWABLE FLOOR AREA:	IBC CH. 5
FIRE RESISTANCE SCHEDULE:	
FLOOR CONSTRUCTION:	0HR IBC TABLE 601 TX ADMIN CODE CH. 135
SECONDARY WF BEAMS/GIRDERS:	0HR
SECONDARY TS COLUMN/TRUSS:	0HR
ROOF CONSTRUCTION:	0 HR IBC TABLE 601
SECONDARY WF BEAMS/GIRDERS:	0 HR
SECONDARY TS COLUMN/TRUSS:	0 HR
INTERIOR RATED WALLS:	N/A ULL419
LIFE SAFETY	
FIRE SPRINKLER SYSTEM:	YES IBC 903.2.6, IFC 1103.5

SHEET INDEX

NO.	SHEET NAME	LATEST REVISION	ISSUE DATE
2-COVER			
0	COVER	PREBID ADDENDUM 01	02/11/2025
3-GENERAL			
G001	ABBREVIATIONS		01/24/2025
G002	ADA - TAS 2012 REQUIREMENTS		01/24/2025
G101	LIFE SAFETY PLANS		01/24/2025
G102	INTERIOR PARTITION TYPE SCHEDULES		01/24/2025
6-DEMOLITION			
D110	DEMOLITION PLAN		01/24/2025
D120	DEMOLITION REFLECTED CEILING PLAN		01/24/2025
7-ARCHITECTURAL			
A100	SITE PLAN		01/24/2025
A101	SITE PLAN - DETAILS		01/24/2025
A110	REFERENCE FLOOR PLAN		01/24/2025
A111	DIMENSION PLAN		01/24/2025
A120	REFLECTED CEILING PLAN		01/24/2025
A201	EXTERIOR BUILDING ELEVATIONS		01/24/2025
A310	DETAILS		01/24/2025
A411	ENLARGED PLANS & INTERIOR ELEVATIONS		01/24/2025
A510	DOOR & WINDOW SCHEDULES	PREBID ADDENDUM 01	02/11/2025
A610	INTERIOR FINISH PLAN		01/24/2025
A611	INTERIOR ROOM FINISH SCHEDULE & SIGNAGE	PREBID ADDENDUM 01	02/11/2025
A710	FURNITURE FIXTURE EQUIPMENT & SCHEDULE		01/24/2025
8-STRUCTURAL			
S001	STRUCTURAL GENERAL NOTES		01/24/2025
S100	OVERALL FOUNDATION PLAN		01/24/2025
S110	PLANS AND DETAILS		01/24/2025
S400	TYPICAL FOUNDATION DETAILS	PREBID ADDENDUM 01	02/11/2025
S415	TYPICAL METAL STUD DETAILS		01/24/2025
S416	TYPICAL METAL STUD DETAILS	PREBID ADDENDUM 01	02/11/2025
10-MECHANICAL			
M001	MECHANICAL SYMBOLS AND LEGENDS		01/24/2025
MD100	DEMO HVAC PLAN	PREBID ADDENDUM 01	02/11/2025
M001	MECHANICAL SYMBOLS AND LEGENDS		01/24/2025
M100	HVAC PLAN		01/24/2025
M101	MECHANICAL ROOF PLAN	PREBID ADDENDUM 01	02/11/2025
M400	MECHANICAL SCHEDULES	PREBID ADDENDUM 01	02/11/2025
M401	RTU SCHEDULE - ALT 1	PREBID ADDENDUM 01	02/11/2025
M500	MECHANICAL DETAILS		01/24/2025
M600	MECHANICAL SPECIFICATIONS		01/24/2025

SHEET INDEX

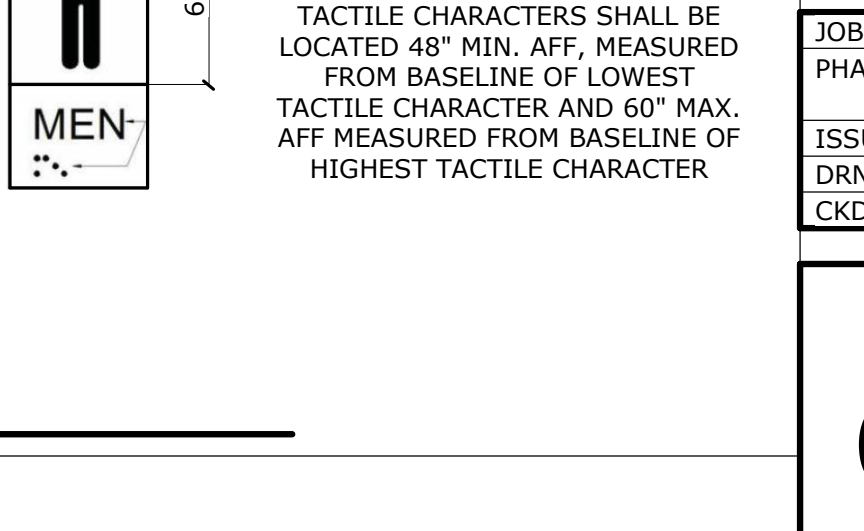
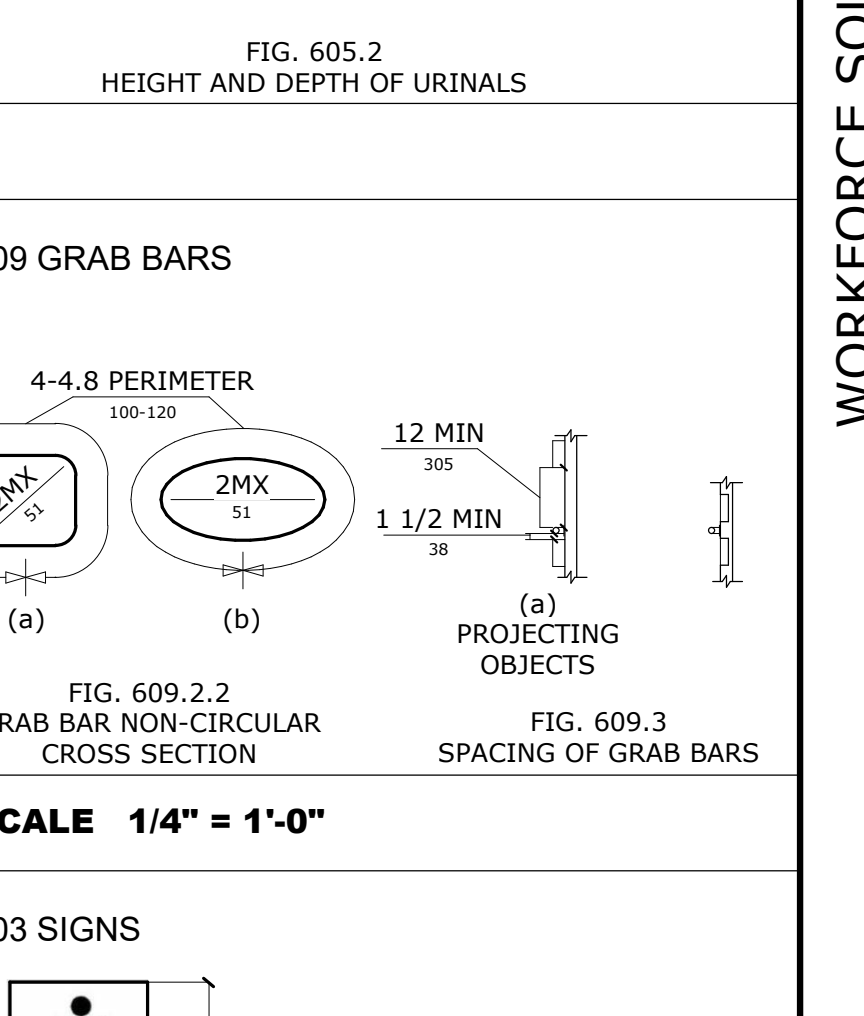
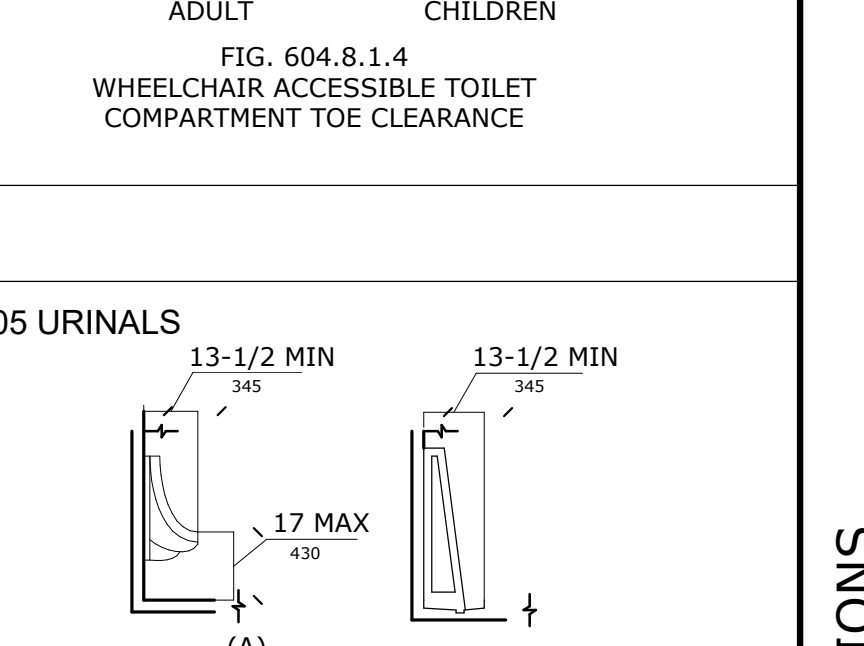
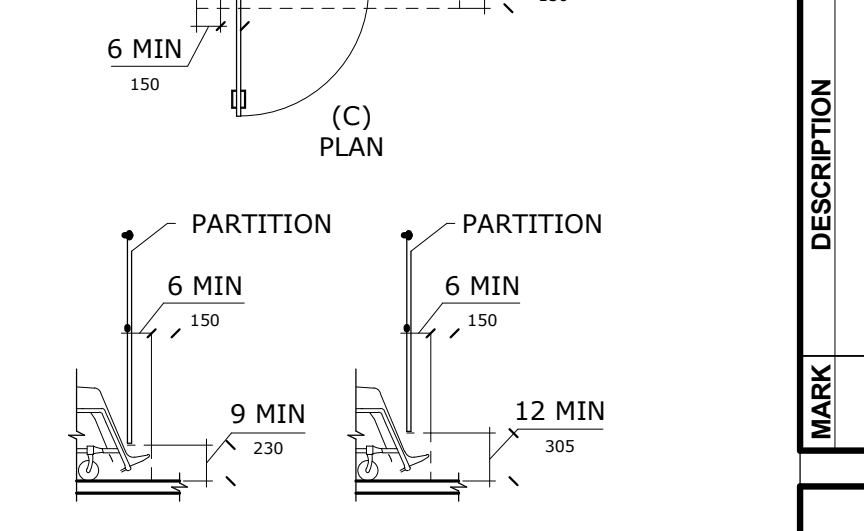
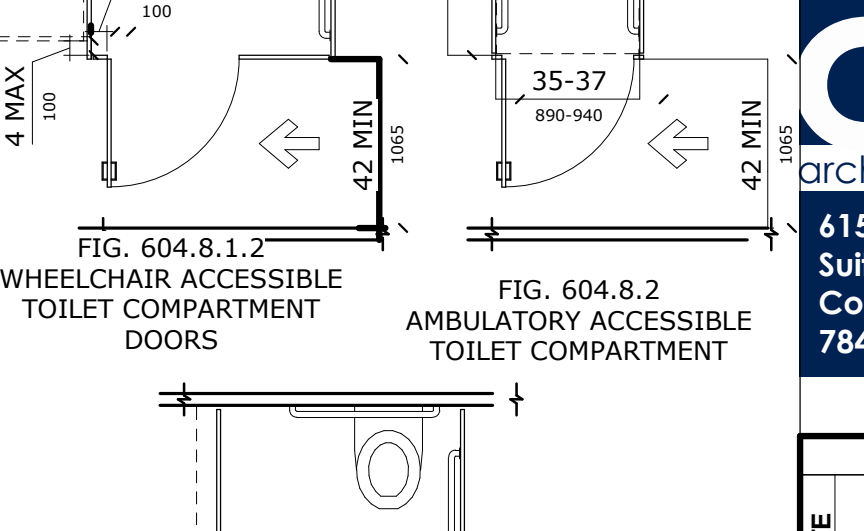
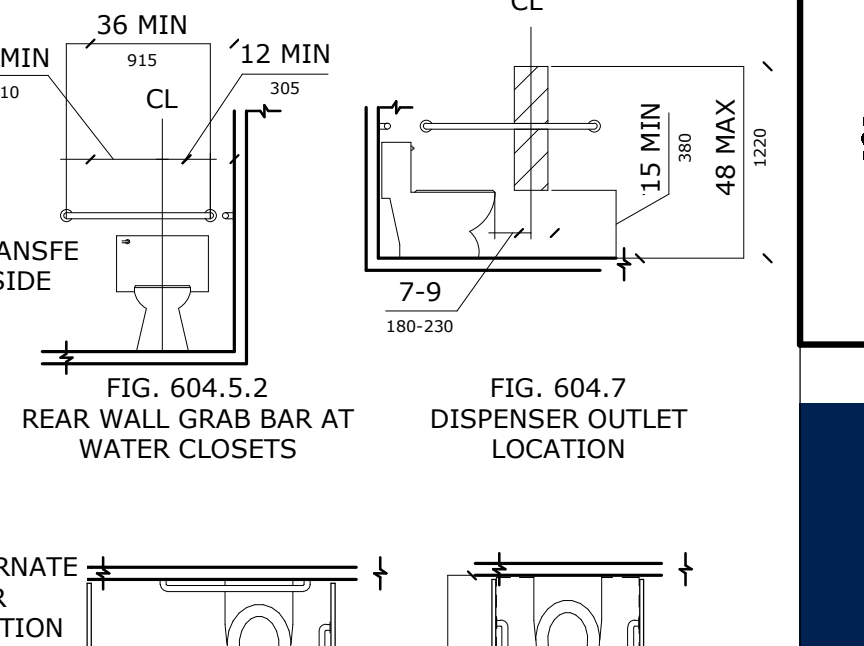
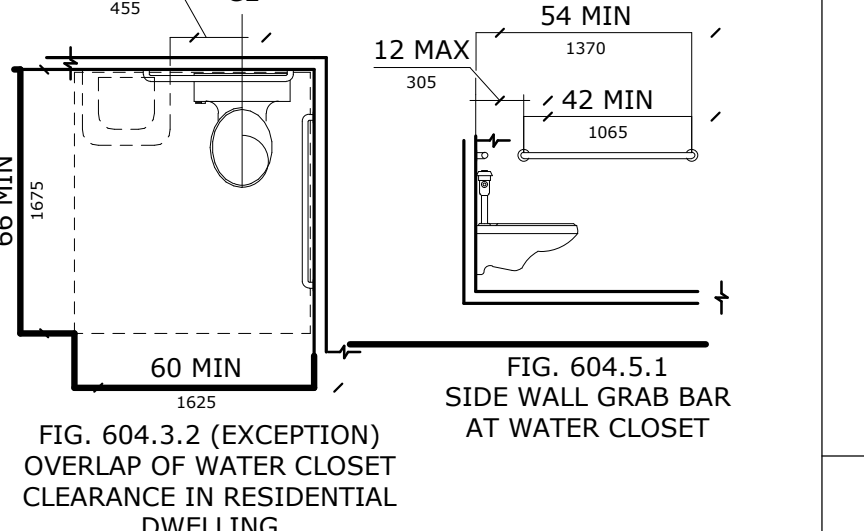
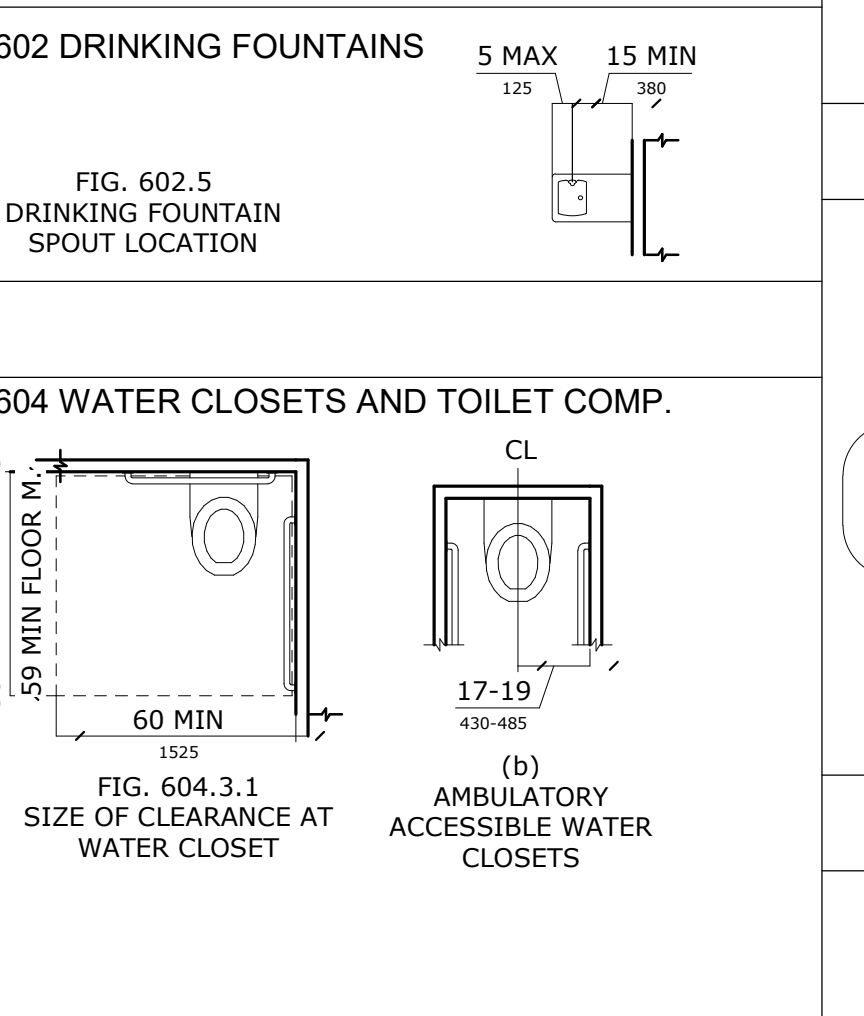
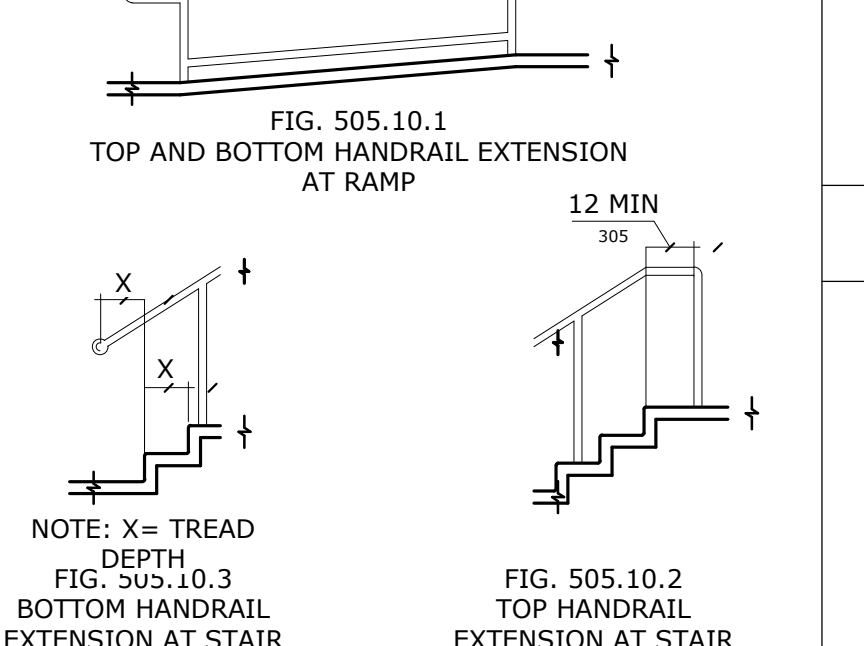
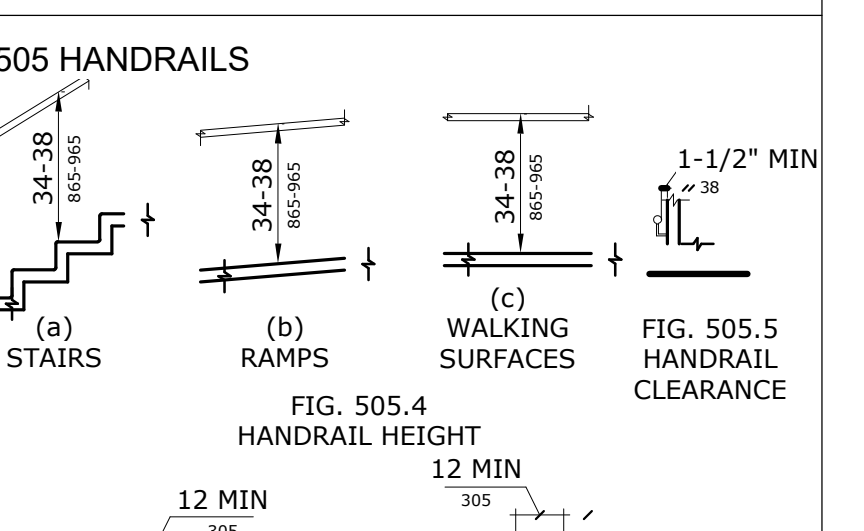
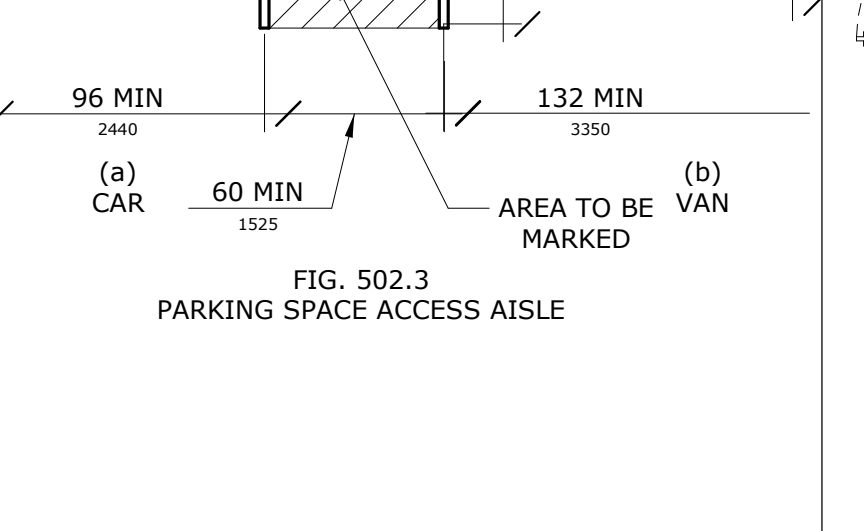
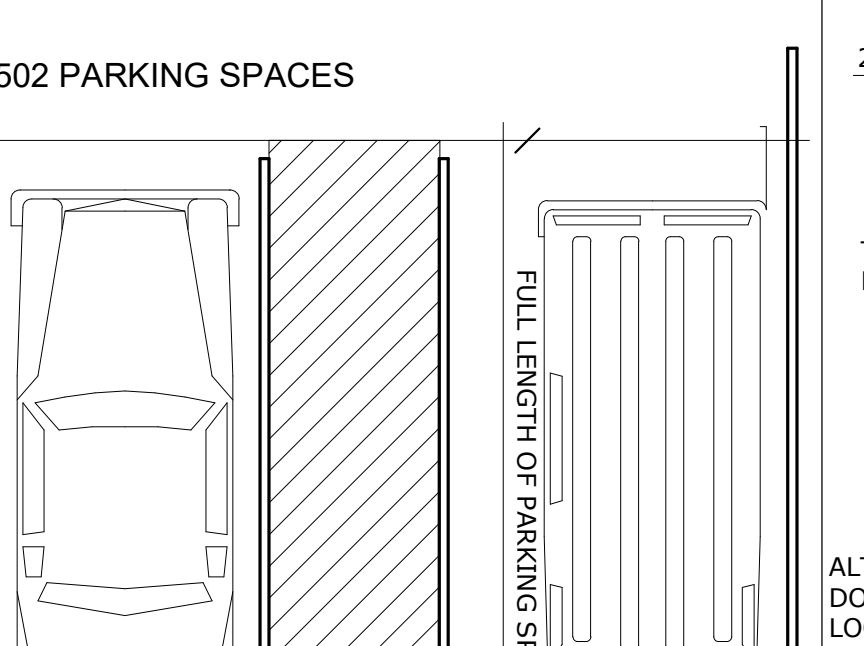
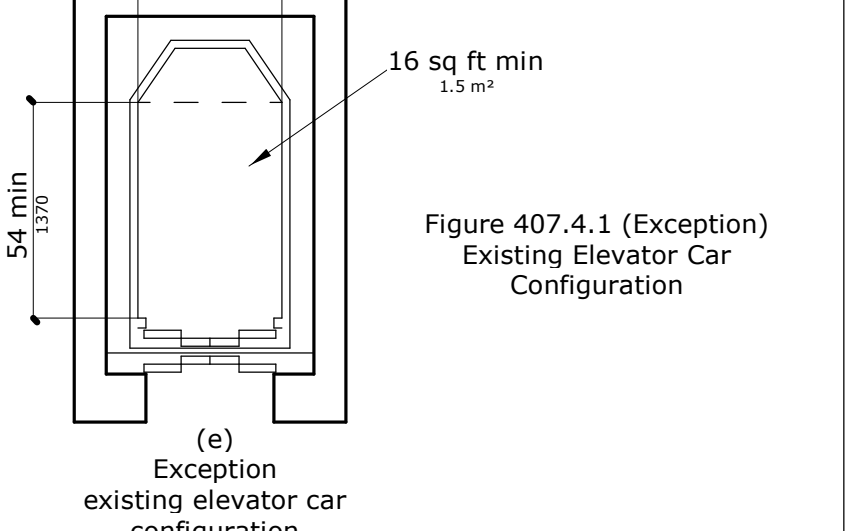
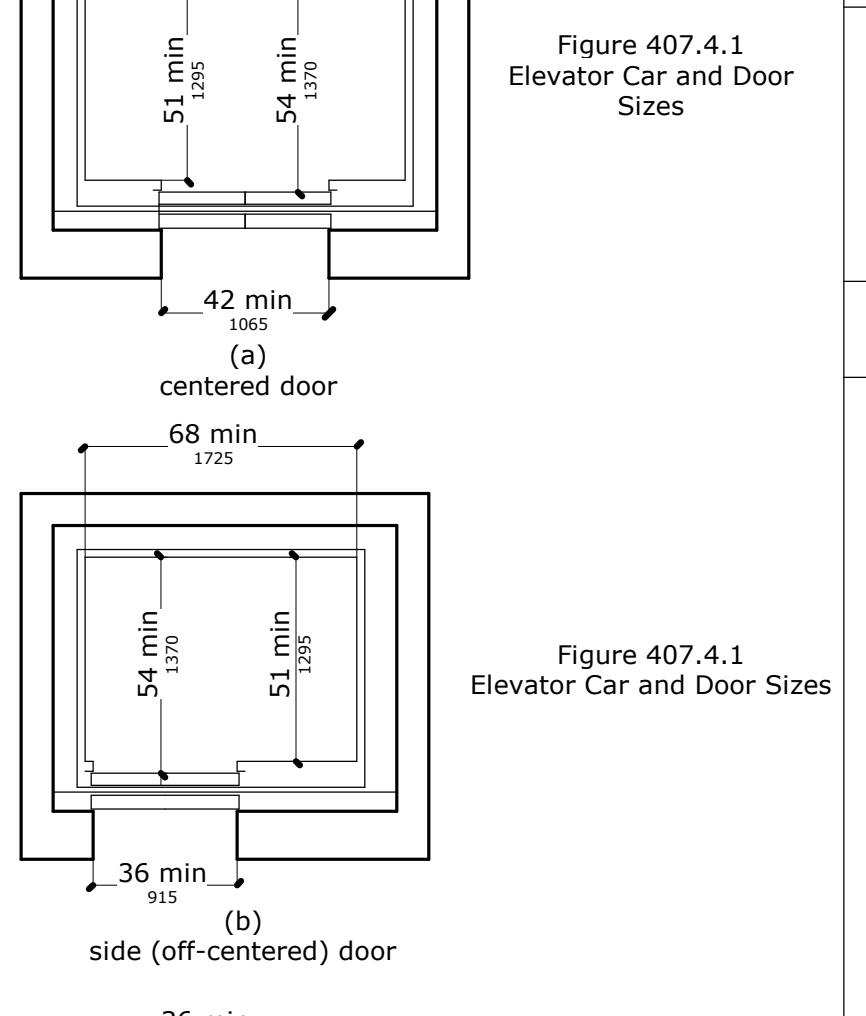
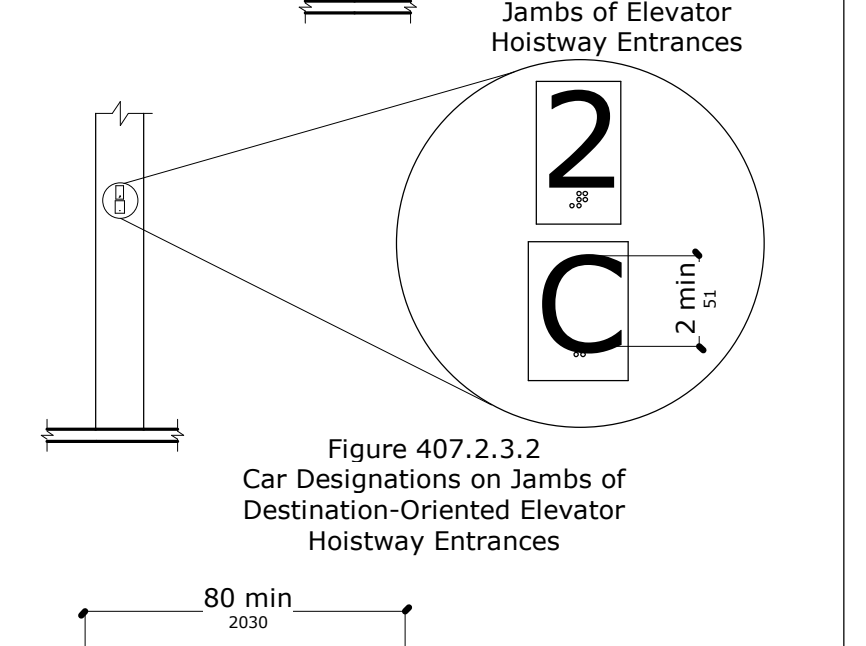
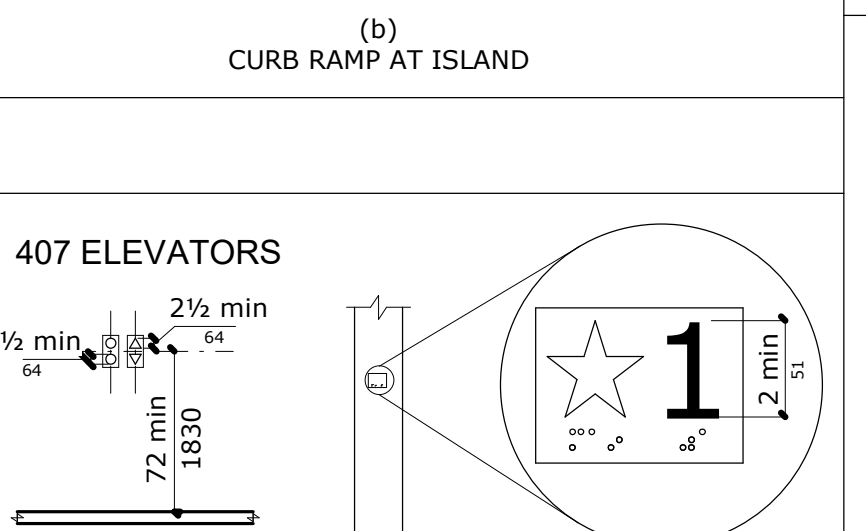
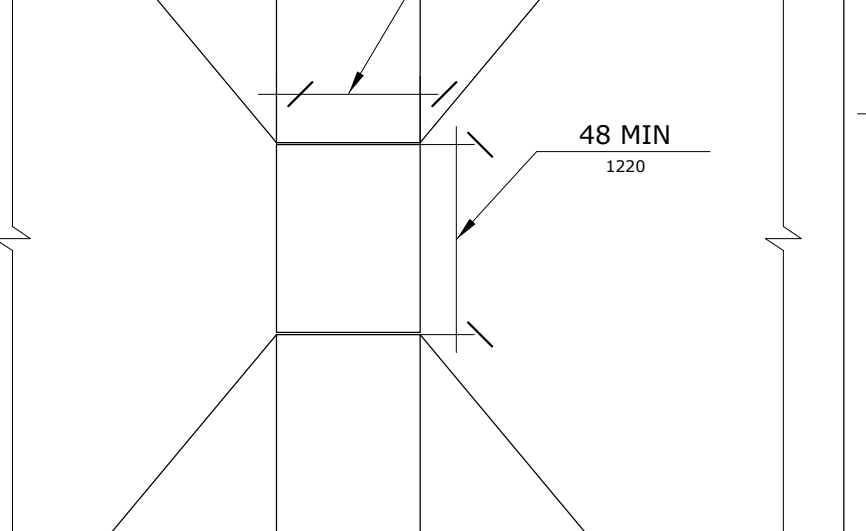
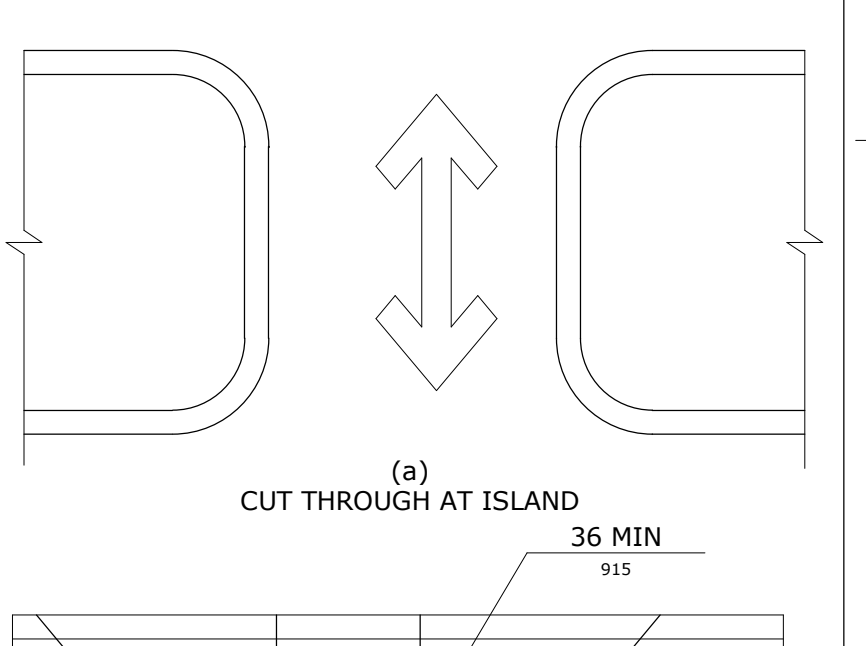
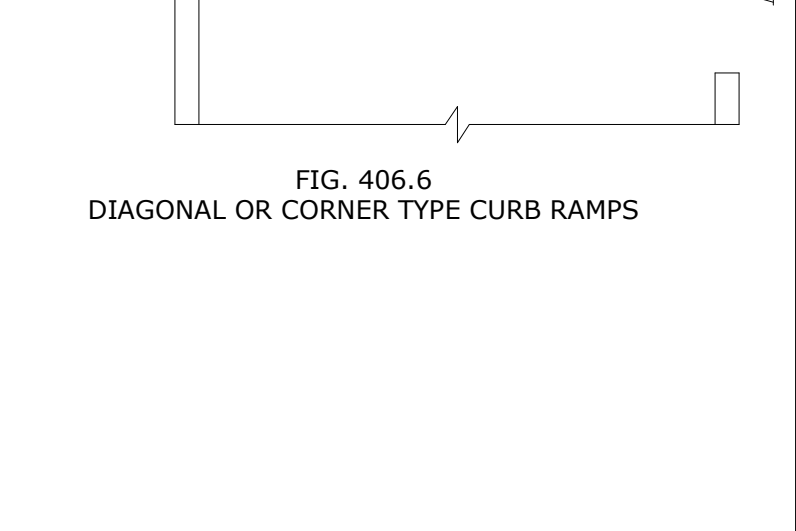
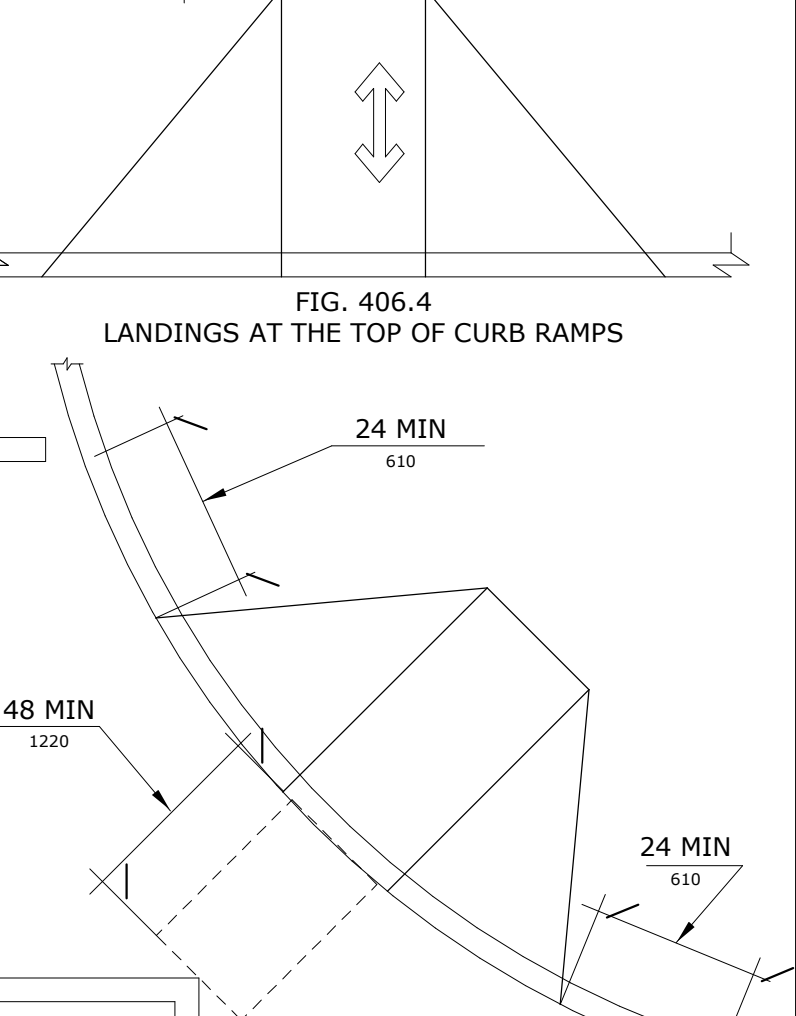
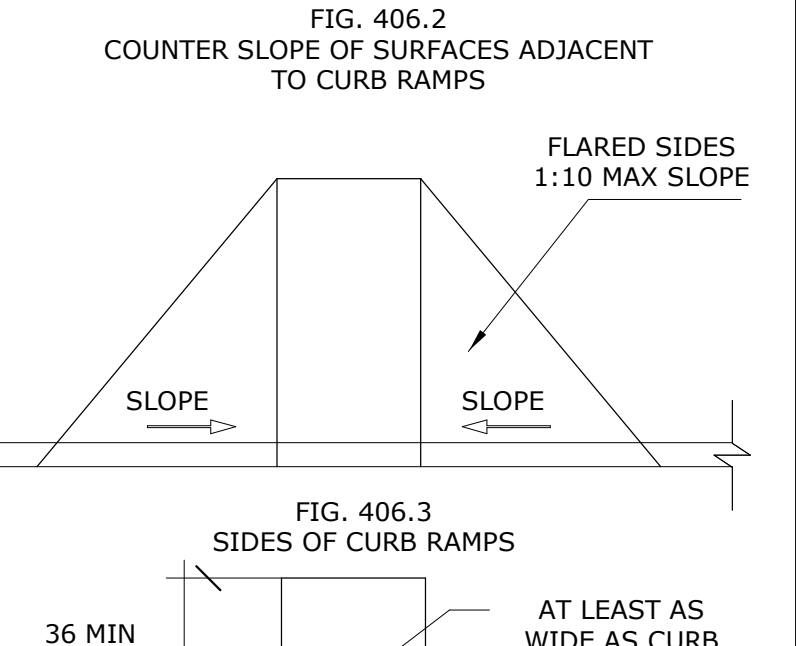
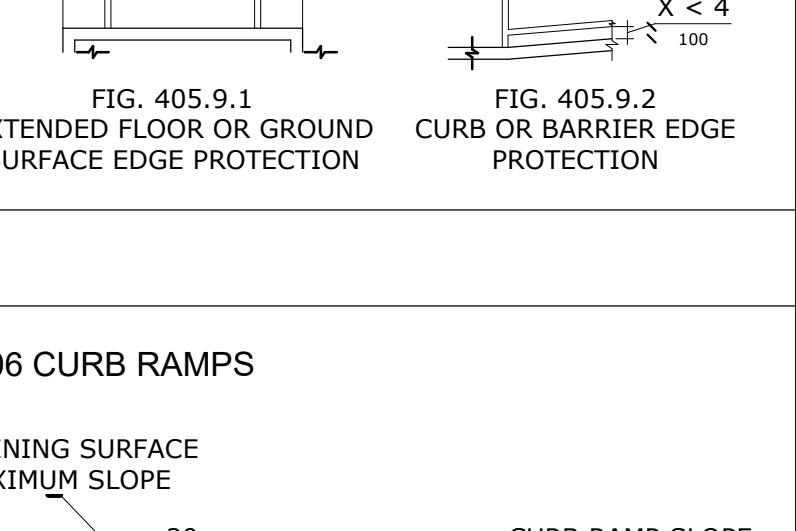
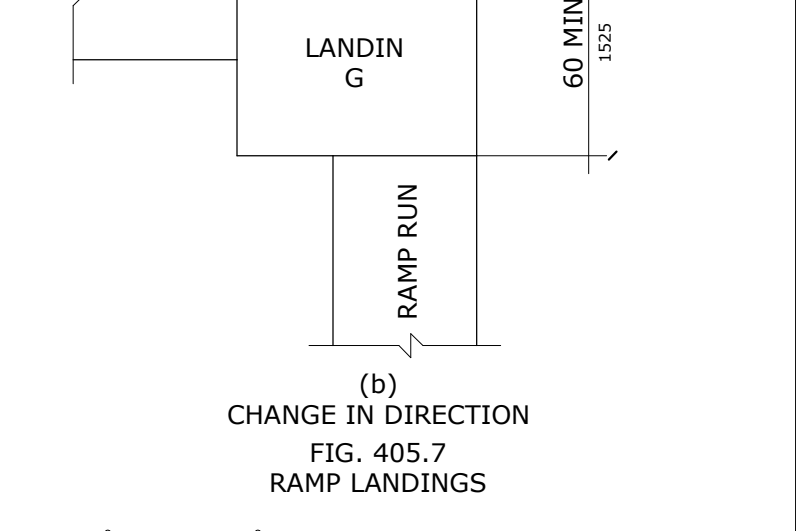
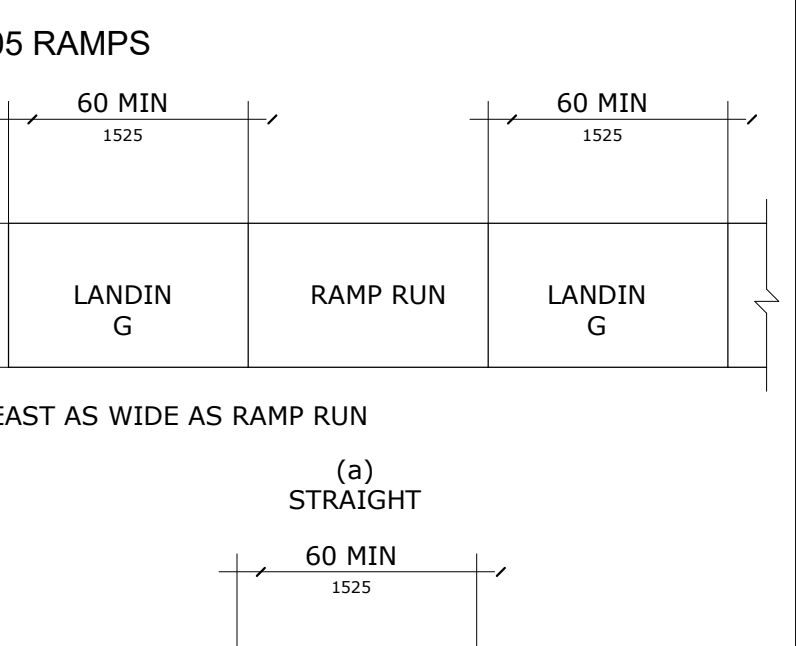
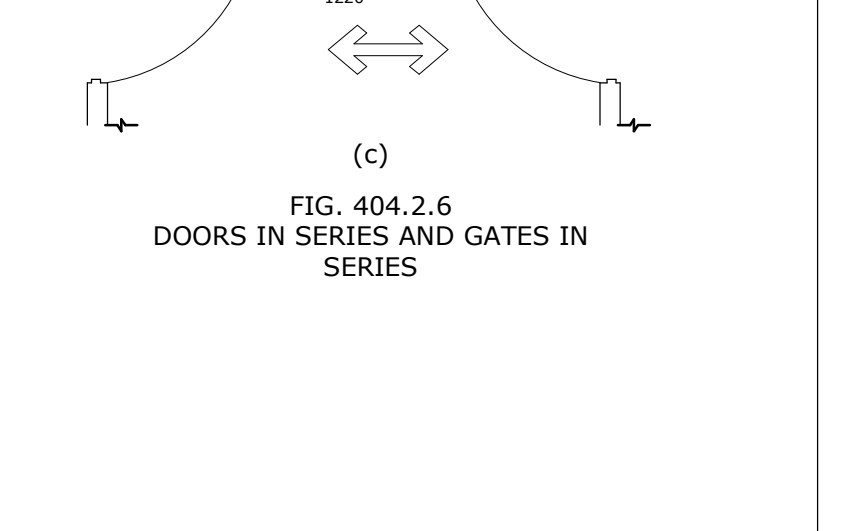
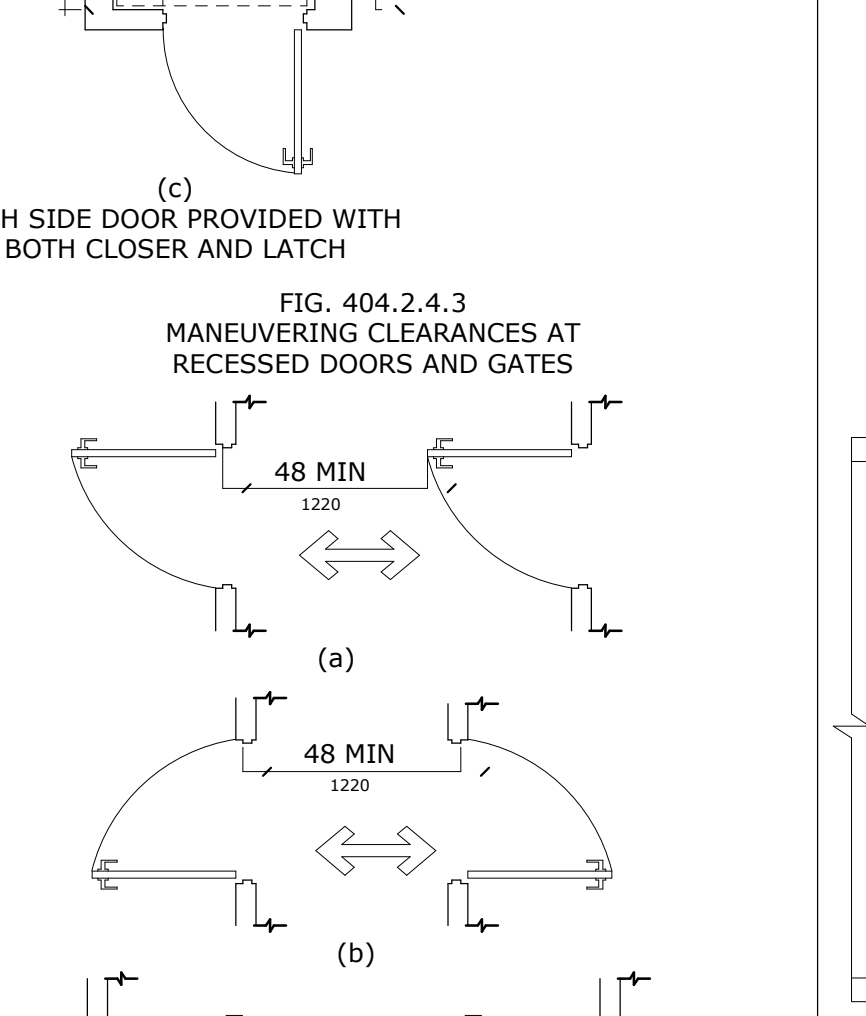
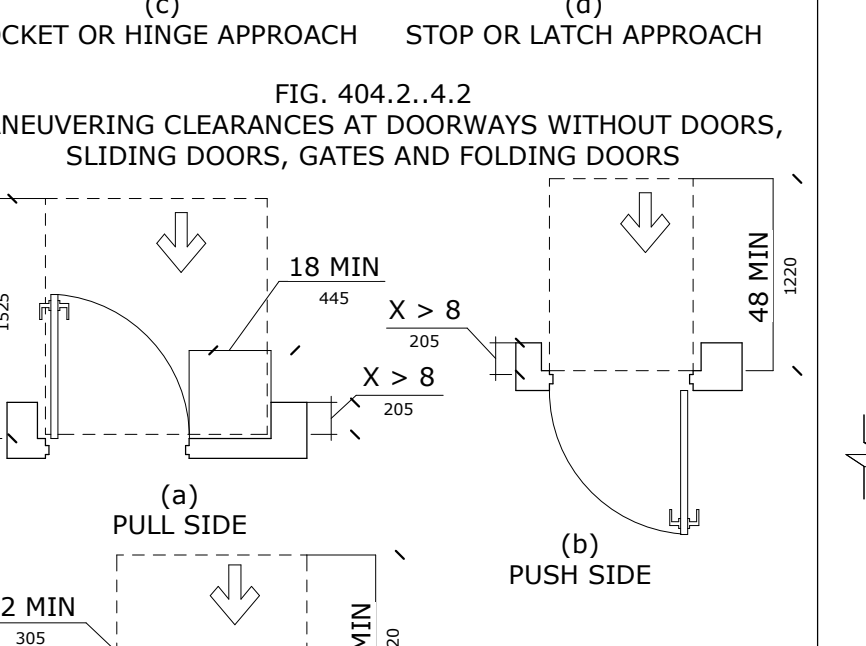
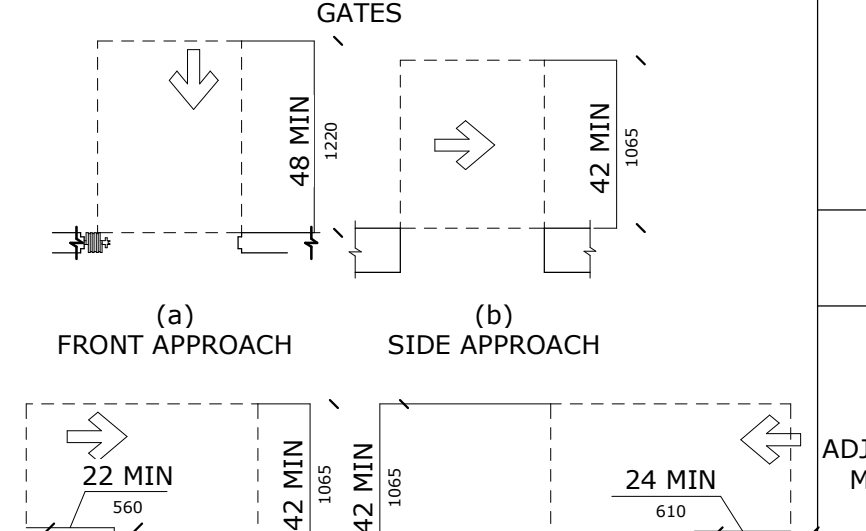
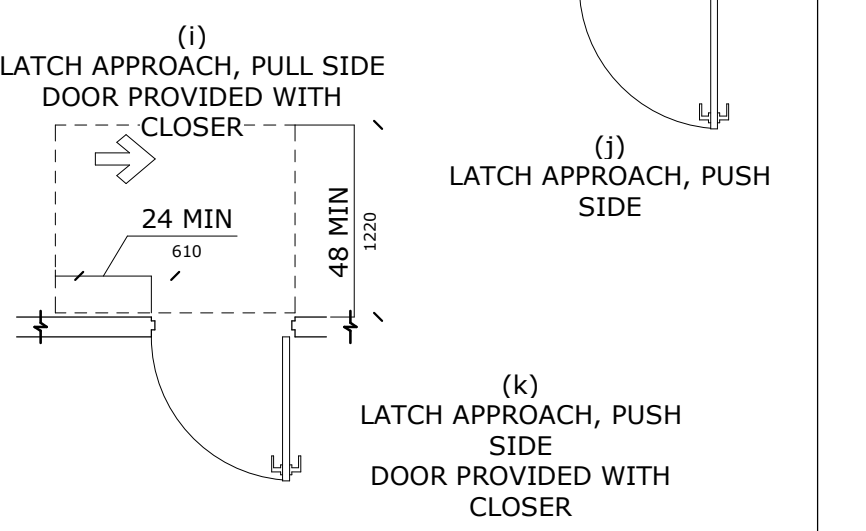
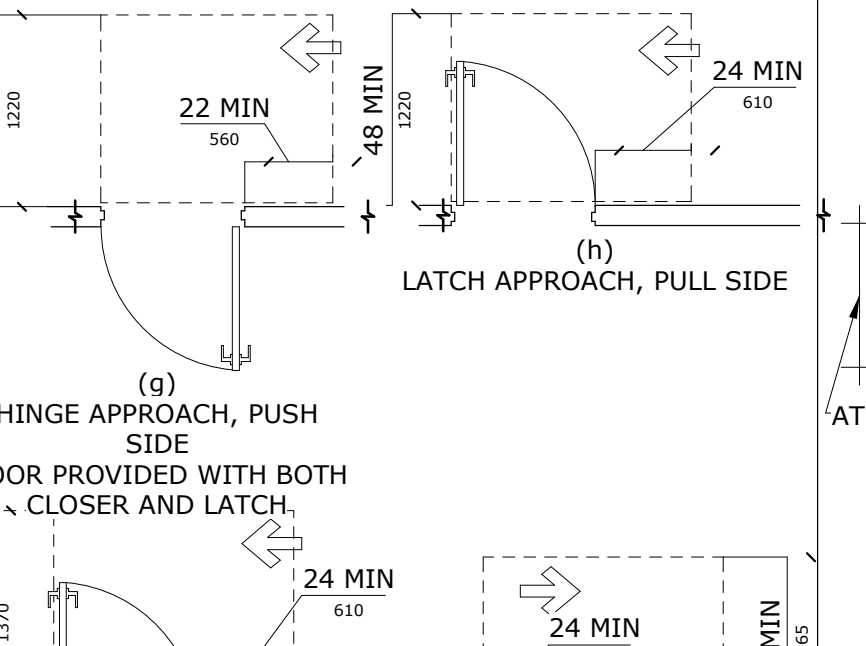
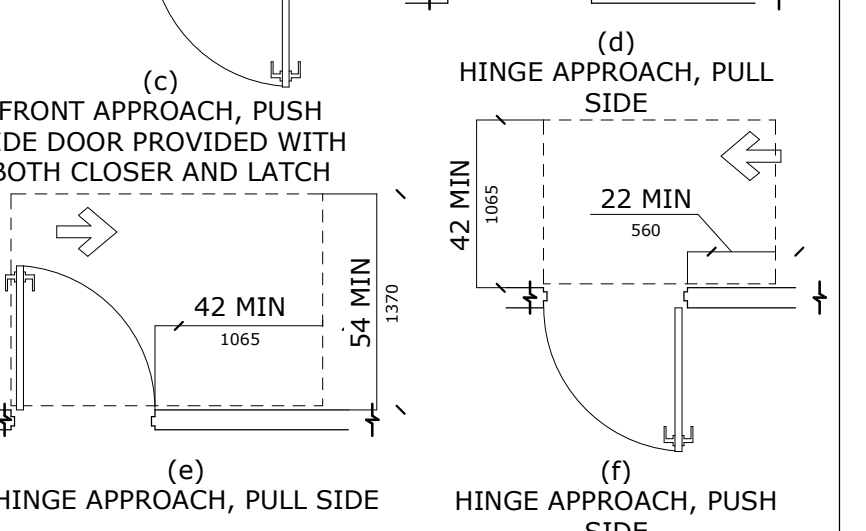
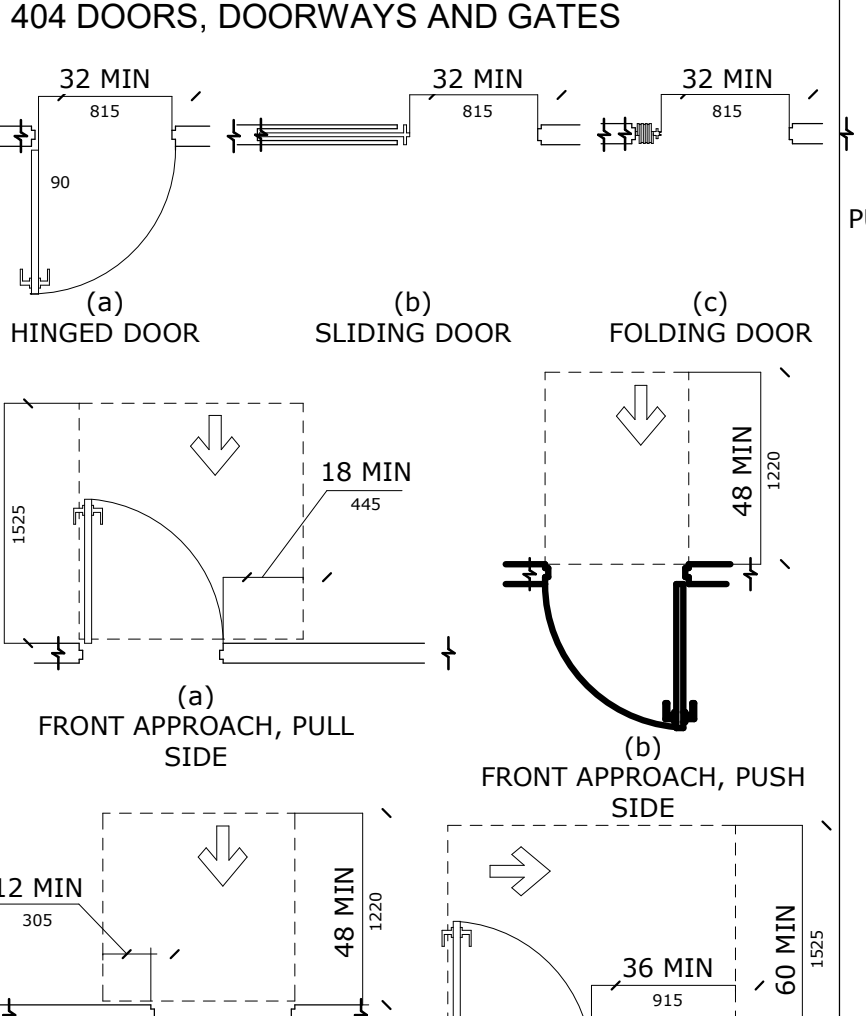
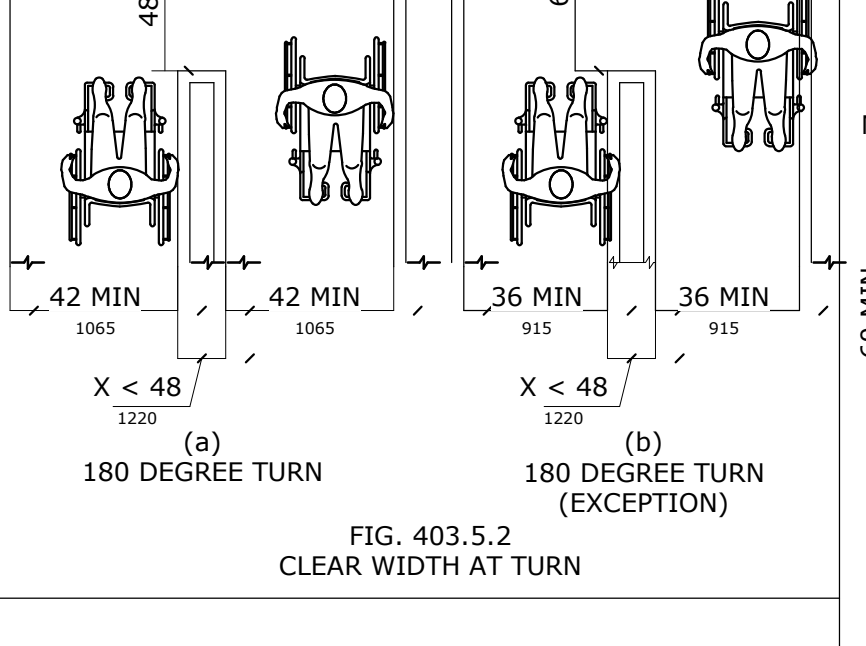
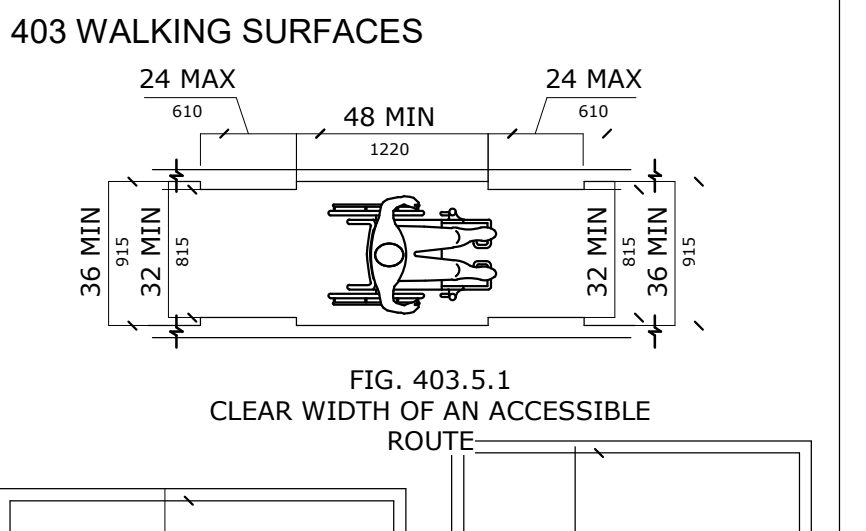
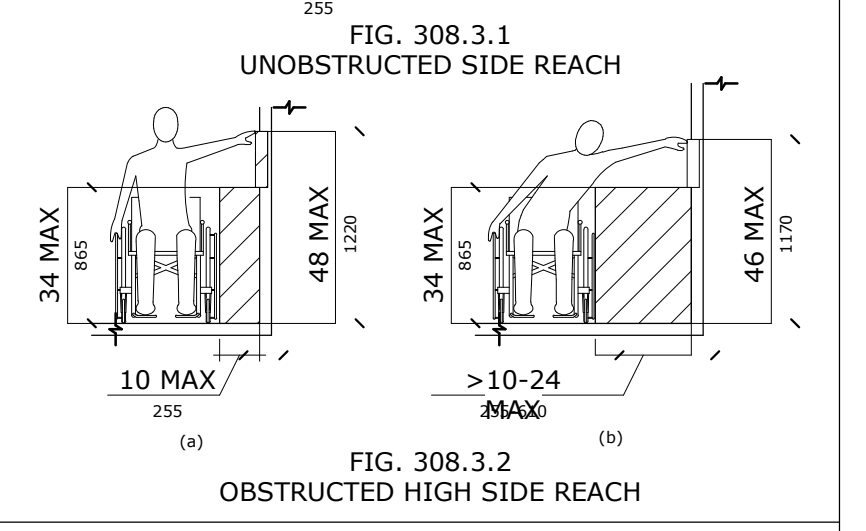
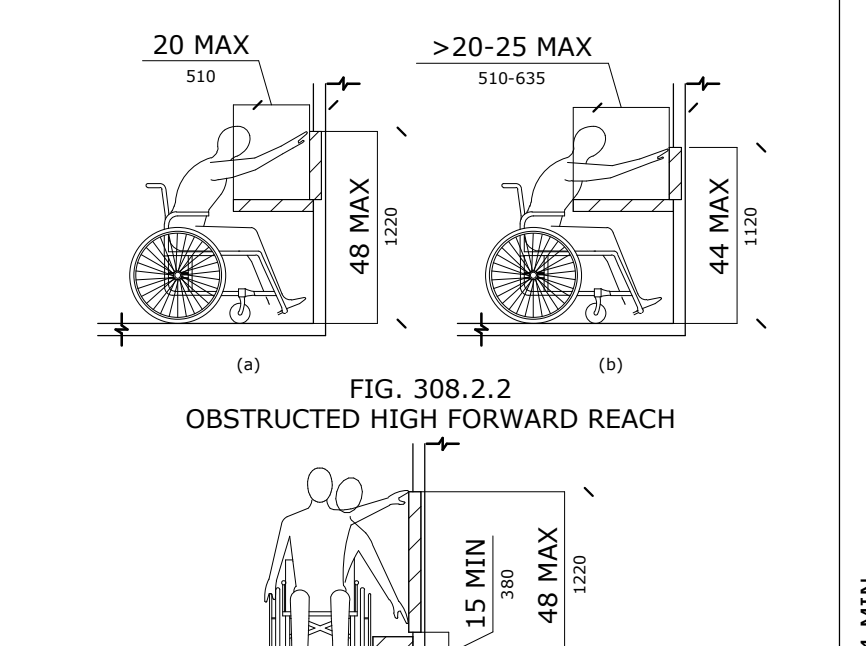
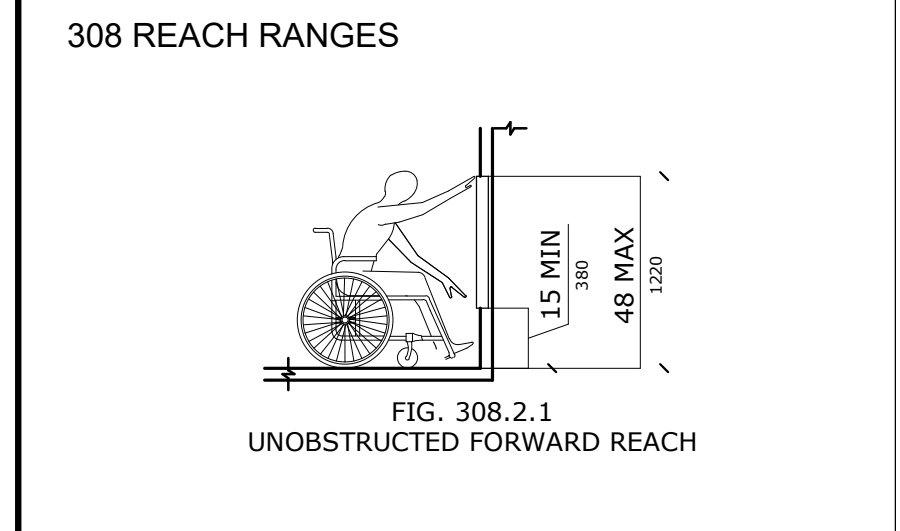
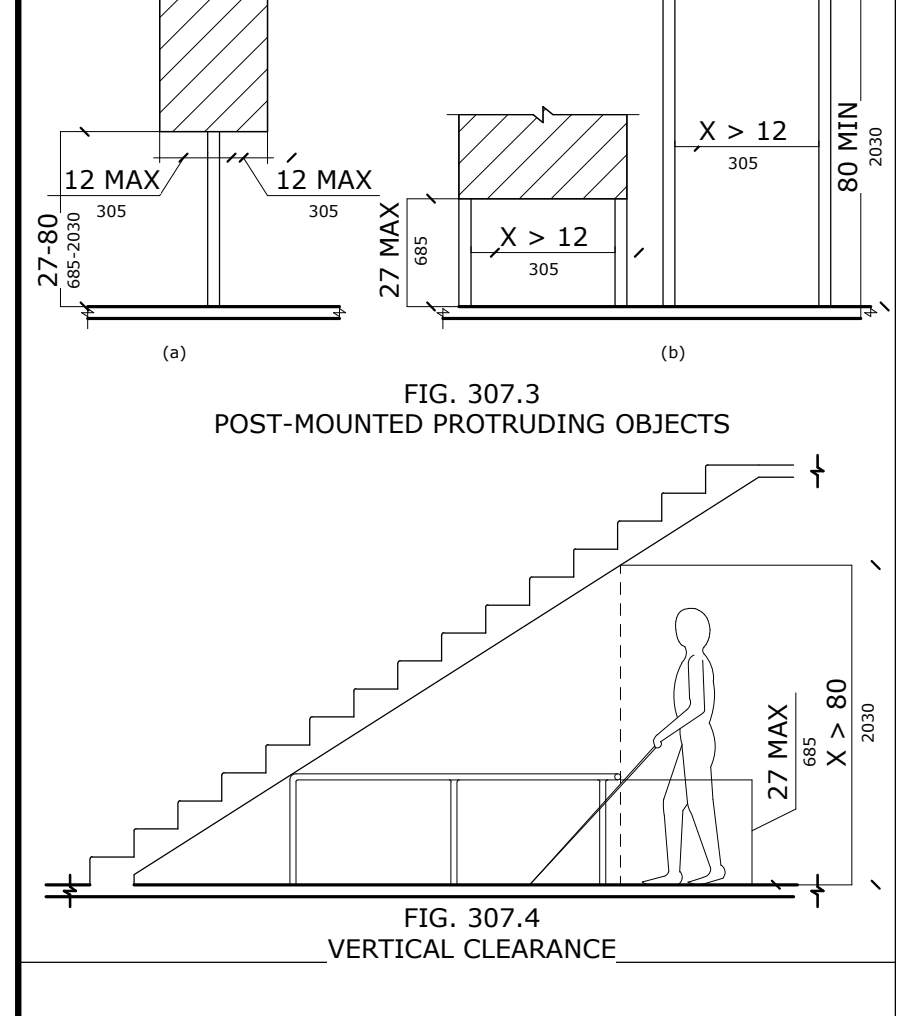
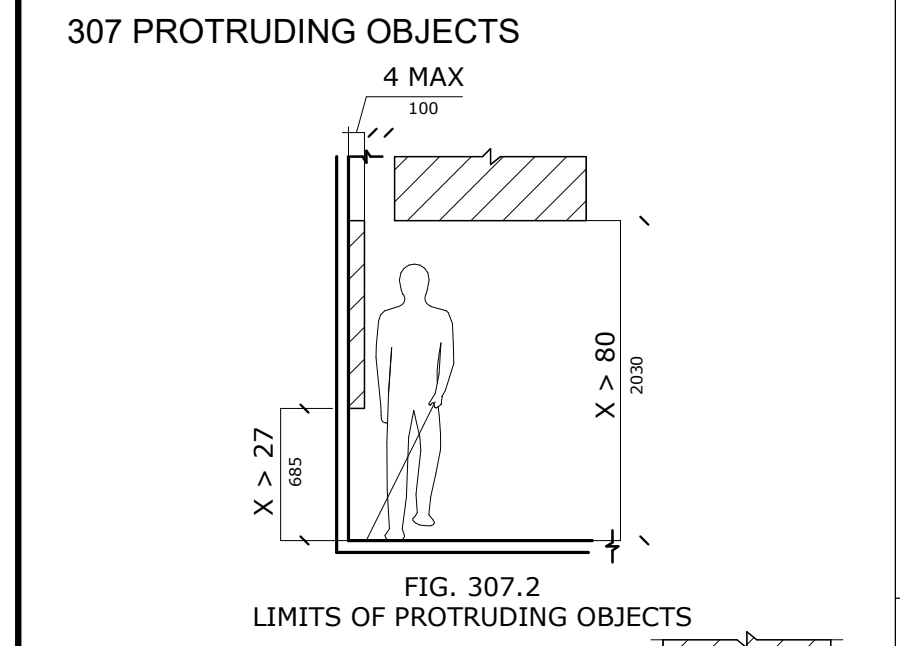
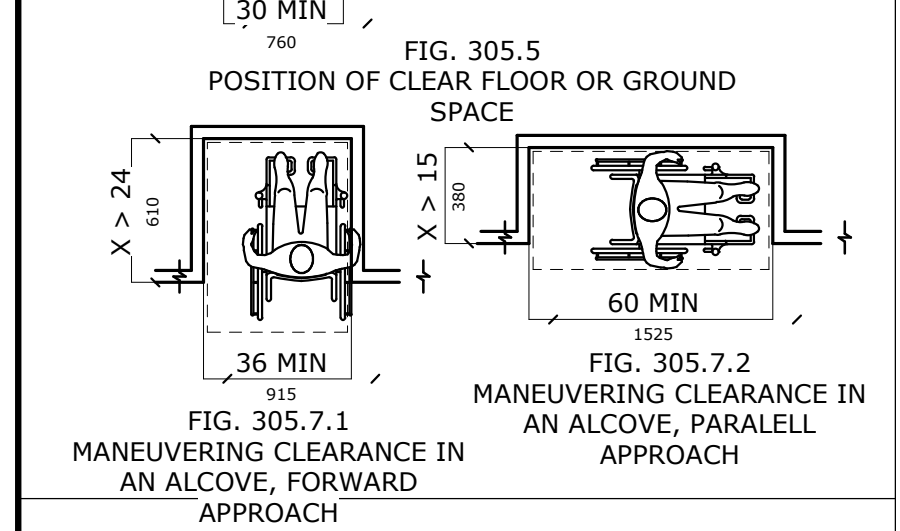
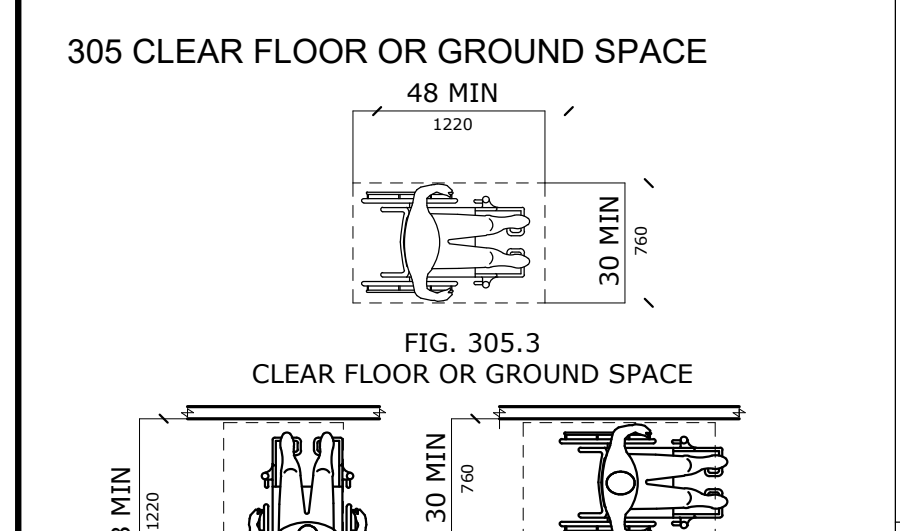
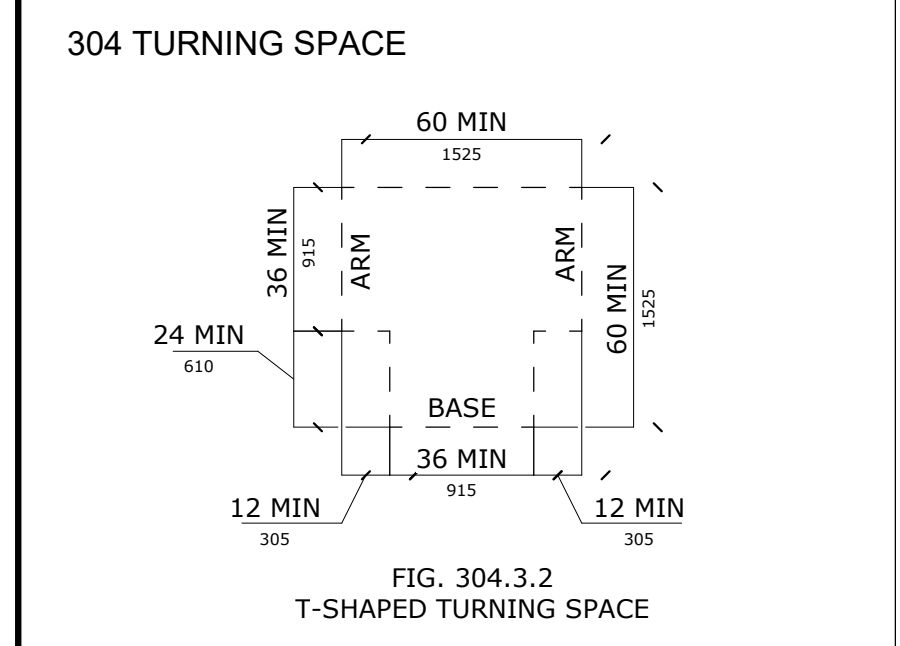
NO.	SHEET NAME	LATEST REVISION	ISSUE DATE
11-ELECTRICAL			
E001	ELECTRICAL DEMOLITION PLAN	PREBID ADDENDUM 01	02/11/2025
E100	ELECTRICAL LIGHTING PLAN		01/24/2025
E200	ELECTRICAL POWER PLAN		01/24/2025
E300	SPECIAL SYSTEMS PLAN		01/24/2025
E400	ELECTRICAL ONE-LINE DIAGRAM		01/24/2025
E401	PANELS, SCHEDULES, & ONE-LINE		01/24/2025
E500	ELECTRICAL SPECIFICATIONS & DETAILS		01/24/2025
13-FIRE PROTECTION			
FP001	FIRE PROTECTION	PREBID ADDENDUM 01	02/11/2025



SITE PLAN



REVISIONS
DATE
DESCRIPTION
MARK

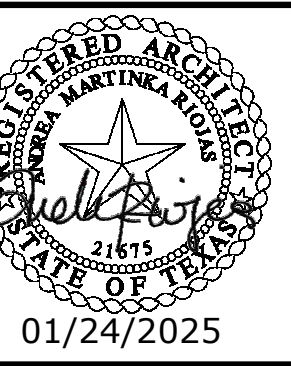


TACTILE CHARACTERS SHALL BE LOCATED 48" MIN. AFF. MEASURED FROM BASELINE OF LOWEST TACTILE CHARACTER AND 60" MAX. AFF. MEASURED FROM BASELINE OF HIGHEST TACTILE CHARACTER



DEMOLITION RCP GENERAL NOTES

- IT IS THE INTENT OF THE DEMOLITION TO REMOVE ALL EXISTING CONSTRUCTION WHICH CONFLICTS WITH THE INTENT OF NEW CONSTRUCTION AND EVERY DEMOLITION DETAIL MAY NOT NECESSARILY BE COVERED ON THESE DRAWINGS. CONTRACTOR SHALL INCLUDE ALL DEMOLITION WORK EVEN IF NOT SPECIFICALLY CALLED FOR.
- WHERE REMOVAL OF EXISTING WALLS, PARTITIONS, EQUIPMENT, ETC DISTURBS EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL SERVICES, CONTRACTOR SHALL MAKE PERMANENT REVISION AS REQUIRED AND IF NECESSARY PROVIDE TEMPORARY SERVICES TO AREAS NOT SCHEDULED FOR DEMOLITION AND REMODELING.
- WHERE PLUMBING FIXTURES, DOORS AND OTHER ITEMS ARE REMOVED FROM WALL AND/OR RELOCATED - PATCH AND REPAIR WALLS TO MATCH EXISTING FINISH. AT WALLS THAT HAVE PAINTED GYP. PATCH, TEXTURE AND PAINT TO MATCH SURROUNDING WALL. AT AREAS THAT HAVE EXISTING TILE AND PARTITIONS OR FIXTURES ARE REMOVED - PATCH AND MATCH EXISTING TILE BY INSTALLING NEW TILE THAT MATCHES EXISTING TILE. FOR WALLS PATCH AND REPAIR TO RECEIVE NEW FINISH AS SCHEDULED.
- CONTRACTOR SHALL MAKE EVERY EFFORT TO KEEP ALL EXISTING FIREPROOFING ON STRUCTURE UNDISTURBED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REAPPLY FIREPROOFING THAT MAY BE REMOVED OR DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE RATED WALL ASSEMBLIES SHOWN ON PLANS AND THOSE FOUND IN THE FIELD.
- ALL EQUIPMENT THAT WILL NEED TO BE SALVAGED WILL BE REMOVED BY OWNER PRIOR TO DEMOLITION.
- CONTRACTOR SHALL HAUL OFF ALL MATERIALS UPON COMPLETION OF DEMOLITION.
- FIELD VERIFY MEP FIXTURES AND EQUIPMENT LOCATIONS.



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78401-0750

DEMOLITION RCP LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO REMOVE
- EXISTING SUSPENDED ACOUSTIC CEILING TO REMOVE
- EXISTING 2'X4' LIGHT FIXTURE TO REMOVE
- EXISTING 2'X4' SUSPENDED LIGHT FIXTURE TO REMOVE

REVISIONS	
DATE	DESCRIPTION

DEMOLITION RCP KEY NOTES

NO.	DESCRIPTION
1	REMOVE EXISTING LIGHT FIXTURES.
2	EXISTING LIGHT FIXTURES TO REMAIN.
3	EXISTING MECHANICAL UNIT.

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

DEMOLITION REFLECTED CEILING PLAN

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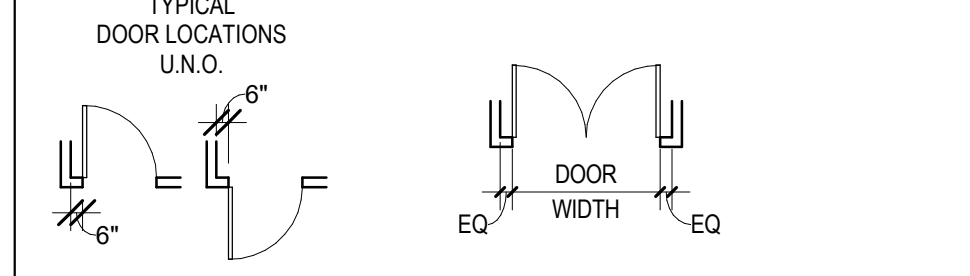
RENOVATION PLAN GENERAL NOTES

- WHERE PLUMBING FIXTURES, DOORS AND OTHER ITEMS ARE REMOVED FROM WALL AND/OR RELOCATED - PATCH AND REPAIR WALLS TO MATCH EXISTING FINISH. AT WALLS THAT HAVE PAINTED GYP. PATCH, TEXTURE AND PAINT TO MATCH SURROUNDING WALL. AT AREAS THAT HAVE EXISTING TILE AND PARTITIONS OR FIXTURES ARE REMOVED PATCH AND INSTALL NEW TILE AS SCHEDULED. FOR WALLS PATCH AND REPAIR TO RECEIVE NEW FINISH AS SCHEDULED.
- UNLESS NOTED OTHERWISE, CONTRACTOR SHALL MATCH ADJACENT FINISHES FOR ALL NEW WALLS AND REPAIRS.
- FIELD VERIFY DIMENSIONS BEFORE FABRICATION. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO FABRICATION.
- WALL TYPES NOT DESIGNATED SHALL MATCH EXISTING. ADJACENT WALL TYPE AND FINISHES. CONTRACTOR TO VERIFY WALL TYPES AND COORDINATE WITH ARCHITECT ANY DISCREPANCIES.
- HEIGHT OF CABINETS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.
- CONTRACTOR SHALL PROVIDE FIRE TREATED IN-WALL BLOCKING AT NEW MILLWORK.
- PROVIDE POWER POLES. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- ALL NEW EXPOSED STRUCTURE, CONDUIT, AND MECHANICAL EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING BLACK FINISH.
- ALL CUBICLES AND WORKSTATIONS SHALL BE PROVIDED AND INSTALLED BY OWNER. POWER AND DATA REQUIREMENTS SHOWN ON MEP DRAWINGS.

PARTITION TYPES LEGEND

GRAPHIC	TAG	DESCRIPTION
(Solid line)	#0	EXISTING PARTITION TO REMAIN
(Dashed line)	#0	2 HOUR FIRE RATED PARTITION
(Dotted line)	#0	1 HOUR FIRE RATED PARTITION
(Line with cross-hatch)	#0S	SMOKE BARRIER (20 MIN FIRE RATED)
(Line with diagonal hatching)	#1S	SMOKE PARTITION (NON-RATED)
(Line with vertical hatching)	#1	ACOUSTIC PARTITION (STC RATED AS SCHEDULED)
(Line with horizontal hatching)	#2	PARTITION W/ GYP TO 6 IN. ABOVE CEILING
(Line with diagonal hatching)	#3	PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING
(Line with diagonal hatching)	#4	PARTIAL HEIGHT PARTITION
(Line with diagonal hatching)	#4	DEMOUNTABLE PARTITION
(Hatched area)		EXISTING TO REMAIN. SEE FLOOR PLAN FOR KEYNOTE DESCRIPTION ON EXTERIOR WALLS.

- NOTE:
 1. SEE G SERIES FOR INTERIOR PARTITION TYPE DETAILS.
 2. * DESIGNATES GYP TO STRUCTURE ONLY ON SIDE WHERE WALL TAG IS SHOWN. REFER TO DETAIL 6/6102 AND SHEET A111 DIMENSION PLAN FOR DETAILS.
 3. 'L' DESIGNATES LEAD SHIELDING. SEE FLOOR PLAN FOR LEAD SHIELDING REQUIREMENTS.



RENOVATION PLAN KEY NOTES

NO.	DESCRIPTION
1	PAINT BOTTOM PORTION OF WALL AT STOREFRONT PT-4 AS SCHEDULED. REFER TO ELEVATIONS.
2	PROVIDE NEW FLOORING AS SCHEDULED ON INTERIOR FINISH PLAN WHERE WALL WAS REMOVED. ALIGN WITH EXISTING FLOOR AND MATCH EXISTING PATTERN FOR SEAMLESS LOOK. PATCH AND FLOAT FLOOR AS REQUIRED. CHECK IF THERE IS ATTIC STOCK BEFORE ORDERING NEW LVT.
3	MODIFY EXISTING WALL TO EXTEND TO STRUCTURE. PROVIDE BATT INSULATION AND SEAL ALL PENETRATIONS.
4	FLOAT, TEXTURE, AND PAINT EXISTING WALL AS SCHEDULED.
5	PAINT EXISTING TOP OF STUDS AND CONDUIT BLACK TO BLEND IN WITH EXISTING BLACK WALL. BLACK FINISH SHALL START AT 13'-6" AFF.
6	EXISTING GYPSUM BOARD SHALL BE PATCHED AND REPAIRED AT ALL DAMAGED AREAS OR WHERE MEP MODIFICATIONS ARE MADE. WALL SHALL BE RETEXTURED FOR A CONSISTENT FINISH. PAINT AS SCHEDULED.
7	EXISTING FIRE ALARM PANEL TO REMAIN. PROVIDE NEW BUILT WALL ENCLOSURE. REFER TO ELEVATIONS FOR DETAILS. REFER TO ALTERNATE 01.
8	PROVIDE INFILL AT EXTERIOR WALL TO MATCH EXISTING CONSTRUCTION AND THICKNESS. PAINT TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
9	INFILL EXISTING WALL WHERE DOOR AND FRAME WERE REMOVED. TEXTURE TO MATCH ADJACENT AND PAINT AS SCHEDULED.
10	RELOCATE EXISTING RECESSED FIRE EXTINGUISHER CABINET. PATCH AND REPAIR WALL WHERE REQUIRED. CABINET SHALL BE INSTALLED SO THAT FIRE EXTINGUISHER HANDLE IS 42" AFF.
11	PROVIDE BATT INSULATION AND ONE LAYER OF 5/8" GYPSUM BOARD FINISH. PAINT AS SCHEDULED.
12	PROVIDE AND INSTALL ROOM SIGNAGE. SIGNAGE SHALL BE MOUNTED IN COMPLIANCE WITH T&S REQUIREMENTS. REFER TO SHEET A810 FOR SIGNAGE TYPES AND QUANTITY.
13	ALTERNATE 01 - RELOCATED EXISTING FIRE ALARM PANEL TO BE RECESSED IN NEW WALL. REFER TO MEP DRAWINGS AND ELEVATIONS FOR MORE INFORMATION.
14	DEMOUNTABLE PARTITION (WALL SYSTEM THAT CAN BE REMOVED AND REINSTALLED IN DIFFERENT CONFIGURATIONS). REFER TO SPECIFICATIONS FOR MORE INFORMATION.
15	PROVIDE IN-WALL BLOCKING FOR FUTURE TV INSTALLATION. PROVIDE HIGH AND LOW POWER AND DATA. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
16	SEAL ALL PENETRATIONS IN EXTERIOR WALL TO CREATE CONDITIONED SPACE.
17	FLOAT AND REPAIR EXISTING FLOOR THROUGHOUT TO PREP FOR NEW FLOORING.
18	PARTITIONS EXTENDING MORE THAN 18' SHALL HAVE STUDS SPACED 12" ON CENTER. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
19	PROVIDE ELECTRICAL CONNECTIONS FOR ADDITIONAL CUBICLES BEING ADDED TO PHASE I & II. REFER TO ELECTRICAL DRAWINGS AND FURNITURE PLAN.
20	PATCH AND PAINT WHERE TV WALL MOUNT WAS REMOVED.
21	PROVIDE ACCESS CONTROL AS SPECIFIED. REFER TO SPECIAL SYSTEMS DRAWINGS FOR MORE INFORMATION.
22	PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINET AS SPECIFIED. CABINET SHALL BE INSTALLED SO THAT FIRE EXTINGUISHER HANDLE IS 42" AFF.
23	PROVIDE NEW HARDWARE. REFER TO DOOR AND HARDWARE SCHEDULE.
24	PROVIDE AUDIOVISUAL RING CAMERA CONVEYED TO FRONT RECEPTION DESK. REFER TO SPECIAL SYSTEMS DRAWINGS FOR MORE INFORMATION.
25	PROVIDE 1" ALUMINUM BLINDS.

REVISIONS	
DATE	DESCRIPTION

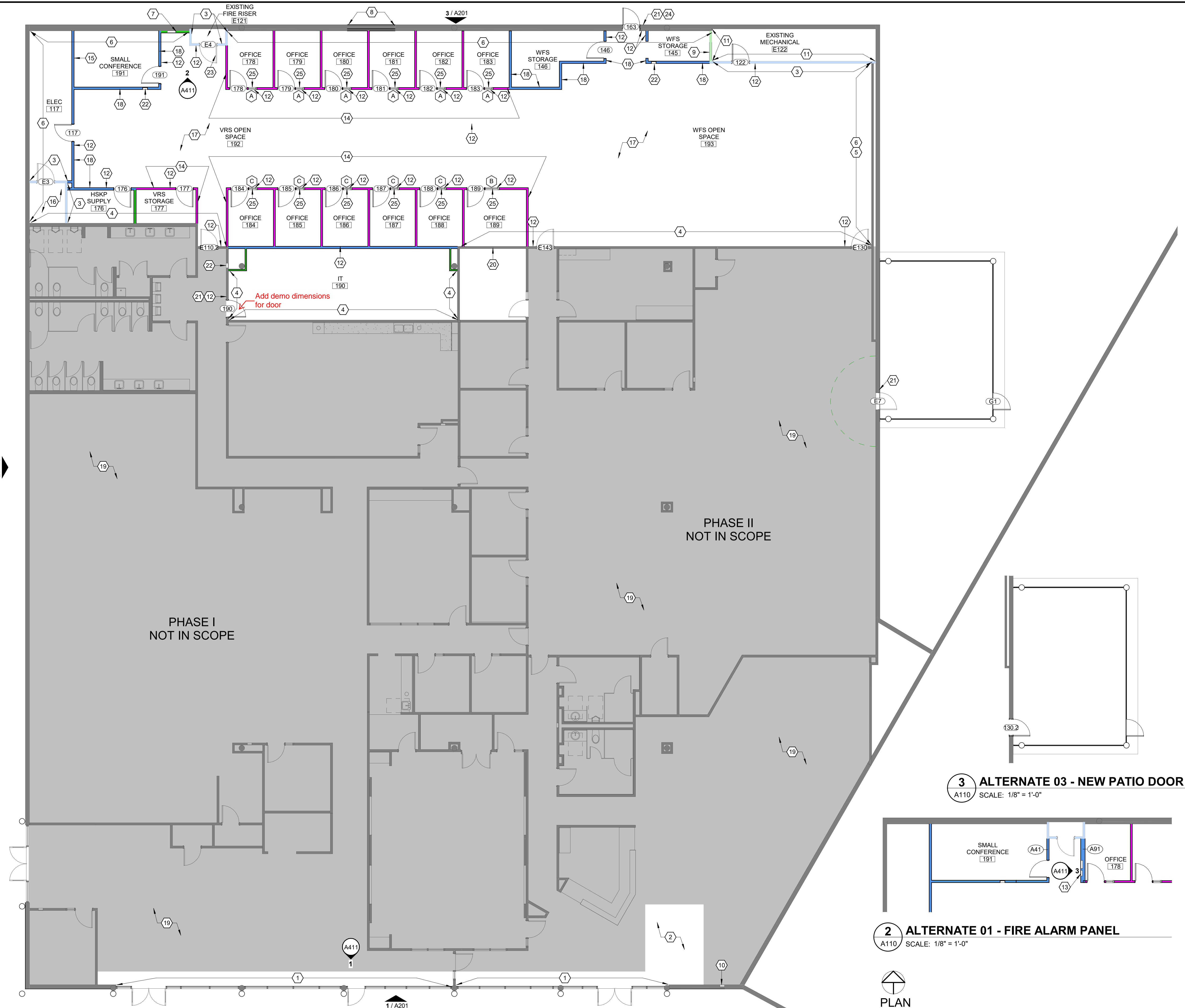
**WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415**

REFERENCE FLOOR PLAN

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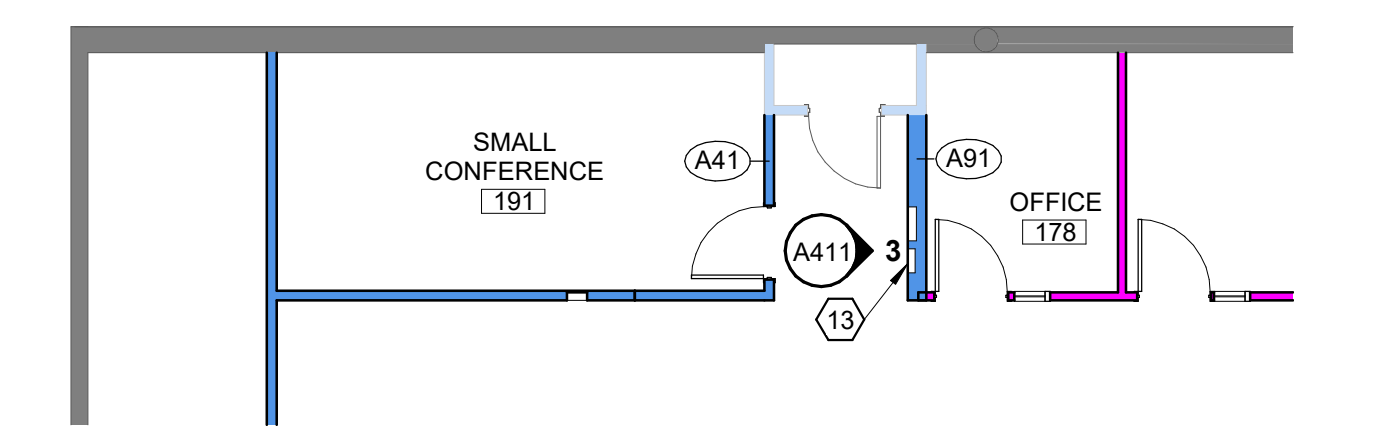
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PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	KW
CKD. BY:	AR

SHEET NUMBER
A110



1 REFERENCE FLOOR PLAN
A110 SCALE: 1/8" = 1'-0"

3 ALTERNATE 03 - NEW PATIO DOOR
A110 SCALE: 1/8" = 1'-0"



2 ALTERNATE 01 - FIRE ALARM PANEL
A110 SCALE: 1/8" = 1'-0"





**DIMENSION PLAN
GENERAL NOTES**

- PARTITION TYPES ARE SCHEDULED IN THE A6 SERIES. RE: G10 SERIES OF "CODE COMPLIANCE PLANS" FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS AND SMOKE COMPARTMENTS. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS.
- CONTRACTOR SHALL REVIEW RATED WALLS ADJACENT TO PROJECT AREA. ANY PENETRATIONS THROUGH WALLS SHALL BE SEALED TO MAINTAIN INTEGRITY OF THE RATED/SMOKE WALL.
- DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF FINISH OF INTERIOR WALLS, TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALLS, UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS TO FINISH FACE OF NEW STUD WALLS, UNLESS OTHERWISE INDICATED.
- WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASUREMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE-HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASUREMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED. STUDS SHALL BE OFFSET AND ADDITIONAL LAYERS OF GYPSUM BOARD SHALL BE PROVIDED AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.
- ALL CORRIDORS AND PASSAGEWAYS SHALL BE 5'-0" MINIMUM CLEAR WIDTH.
- SEE A410 PLUMBING LAYOUTS FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES.
- REFER TO A310 FOR MISCELLANEOUS DETAILS.
- PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EVERY DOOR WITH A CLOSER. PROVIDE MINIMUM 1'-8" CLEAR AT THE PULL SIDE OF EVERY DOOR (EXCLUDING PATIENT BEDROOMS), UNLESS SPECIFICALLY DIMENSIONED, NOTED OR SHOWN OTHERWISE.
- PROVIDE A 1'-4" WIDE CHASE BEHIND SINGLE SIDED TOILETS, AND A 1'-8" WIDE CHASE BETWEEN BACK TO BACK TOILETS, FOR WALL HUNG FIXTURES. FOR FLOOR MOUNTED FIXTURES PROVIDE A 6" STUD, MINIMUM.
- ALL LAVATORIES AND SINKS SHALL BE MOUNTED A MINIMUM OF 1'-3" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
- REFER TO SHEET A610, "INTERIOR FINISH PLAN" FOR WALL PROTECTION LOCATIONS.
- FURNITURE AND EQUIPMENT SHOWN IN DIMENSION AND REFERENCE PLANS FOR REFERENCE ONLY. REFER TO EQUIPMENT SCHEDULE ON SHEET A710 FOR DESIGNATION OF CONTRACTOR AND OWNER PROVIDED AND/OR INSTALLED ITEMS.
- ALL ELECTRICAL AND DATA OUTLET BOXES SHALL BE INSTALLED IN A STAGGERED CONFIGURATION WITH ONE STUD MIN. SEPARATING THE BOXES.
- REFER TO FIRE PROTECTION SCHEDULE ON SHEET G101 FOR THE FIRE RESISTANCE REQUIREMENTS OF EACH BUILDING ELEMENT, INCLUDING: PRIMARY STRUCTURAL COMPONENTS, EXTERIOR WALL ASSEMBLIES, FLOOR AND ROOF CONSTRUCTION, AND SHAFTS.
- SEE LIFE SAFETY PLAN ON SHEET G101 FOR FIRE EXTINGUISHER LOCATIONS.
- SEE SPECIFICATIONS FOR SIGNAGE ALLOWANCE. EACH ROOM SHALL RECEIVE A ROOM SIGN IN COMPLIANCE WITH TAS REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL.
- REFER TO SHEET G101 FOR ADDITIONAL GENERAL NOTES.

**PARTITION TYPES
LEGEND**

GRAPHIC	TAG	DESCRIPTION
(Solid black line)		EXISTING PARTITION TO REMAIN
(Red dashed line)	#0	2 HOUR FIRE RATED PARTITION
(Red solid line)	#0	1 HOUR FIRE RATED PARTITION
(Blue dashed line)	#0S	SMOKE BARRIER (20 MIN FIRE RATED)
(Blue solid line)	#1S	SMOKE PARTITION (NON-RATED)
(Blue solid line)	#1	ACOUSTIC PARTITION (STC RATED AS SCHEDULED)
(Green solid line)	#2	PARTITION W/ GYP TO 6 IN. ABOVE CEILING
(Yellow solid line)	#3	PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING
(Grey solid line)	#4	PARTIAL HEIGHT PARTITION
(Pink solid line)		DEMOUNTABLE PARTITION
(Hatched area)		EXISTING TO REMAIN. SEE FLOOR PLAN FOR KEYNOTE DESCRIPTION ON EXTERIOR WALLS.

NOTE:
 1. SEE G SERIES FOR INTERIOR PARTITION TYPE DETAILS.
 2. * DESIGNATES GYP TO STRUCTURE ONLY ON SIDE WHERE WALL TAG IS SHOWN. REFER TO DETAIL 6/G102 AND SHEET A111 DIMENSION PLAN FOR DETAILS.
 3. % DESIGNATES LEAD SHIELDING. SEE FLOOR PLAN FOR LEAD SHIELDING REQUIREMENTS.

TYPICAL DOOR LOCATIONS U.N.O.



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DIMENSION PLAN

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SHEET NUMBER
A111

1 DIMENSION PLAN
A111 SCALE: 1/8" = 1'-0"





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REFLECTED CEILING PLAN
12505 WAINWRIGHT STREET, SUITE 1000, CORPUS CHRISTI, TEXAS 78415
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SHEET NUMBER
A120

RENOVATION RCP GENERAL NOTES

- WHERE PLUMBING FIXTURES, DOORS AND OTHER ITEMS ARE REMOVED FROM WALL AND/OR RELOCATED - PATCH AND REPAIR WALLS TO MATCH EXISTING FINISH. AT WALLS THAT HAVE PAINTED GYP, PATCH, TEXTURE AND PAINT TO MATCH SURROUNDING WALL. AT AREAS THAT HAVE EXISTING TILE AND PARTITIONS OR FIXTURES ARE REMOVED - PATCH AND INSTALL NEW TILE AS SCHEDULED. FOR WALLS PATCH AND REPAIR TO RECEIVE NEW FINISH AS SCHEDULED.
- UNLESS NOTED OTHERWISE, CONTRACTOR SHALL MATCH ADJACENT FINISHES FOR ALL NEW WALLS AND REPAIRS.
- FIELD VERIFY DIMENSIONS BEFORE CABINETS ARE FABRICATED. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO FABRICATION.
- WALL TYPES NOT DESIGNATED SHALL MATCH EXISTING, ADJACENT WALL TYPE AND FINISHES. CONTRACTOR TO VERIFY WALL TYPES AND COORDINATE WITH ARCHITECT ANY DISCREPANCIES.
- HEIGHT OF CABINETS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.
- CONTRACTOR SHALL PROVIDE FIRE TREATED IN-WALL BLOCKING AT NEW MILLWORK.
- ALL EXPOSED STRUCTURE, CONDUIT, AND MECHANICAL EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING BLACK FINISH.

PARTITION TYPES LEGEND

GRAPHIC	TAG	DESCRIPTION
		EXISTING PARTITION TO REMAIN
	#20	2 HOUR FIRE RATED PARTITION
	#10	1 HOUR FIRE RATED PARTITION
	#10S	SMOKE BARRIER (20 MIN FIRE RATED)
	#1T5	SMOKE PARTITION (NON-RATED)
	#1	ACOUSTIC PARTITION (STC RATED AS SCHEDULED)
	#2	PARTITION W/ GYP TO 6 IN. ABOVE CEILING
	#3	PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING
	#4	PARTIAL HEIGHT PARTITION
		DEMOUNTABLE PARTITION
		EXISTING TO REMAIN. SEE FLOOR PLAN FOR KEYNOTE DESCRIPTION ON EXTERIOR WALLS.

NOTE:
 1. SEE G SERIES FOR INTERIOR PARTITION TYPE DETAILS.
 2. * DESIGNATES GYP TO STRUCTURE ONLY ON SIDE WHERE WALL TAG IS SHOWN. REFER TO DETAIL 610102 AND SHEET A111 DIMENSION PLAN FOR DETAILS.
 3. *L DESIGNATES LEAD SHIELDING. SEE FLOOR PLAN FOR LEAD SHIELDING REQUIREMENTS.

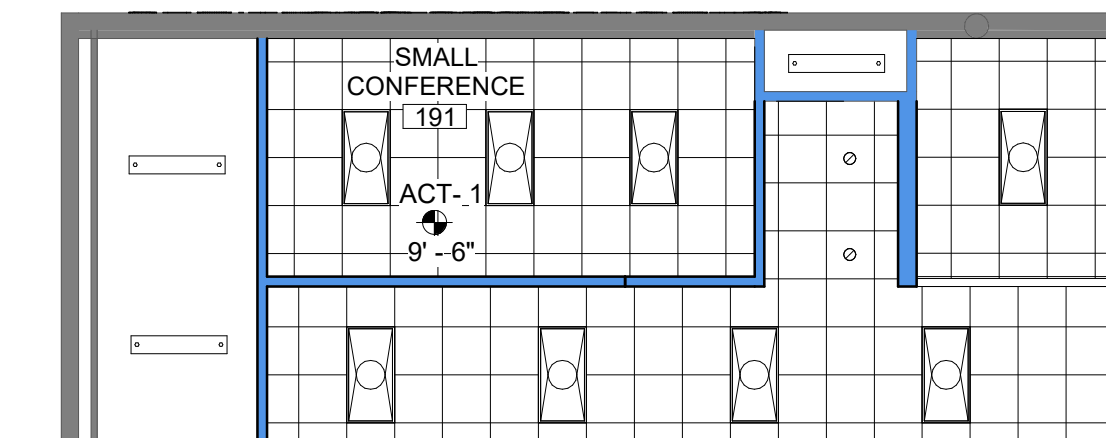
TYPICAL DOOR LOCATIONS
 U.N.O.

RENOVATION RCP LEGEND

	ACT-1
	GBC-1
Type Name 1' - 0"	CEILING TAG WITH HEIGHT
	2x4' FIXTURE
	2x2' FIXTURE
	1x4' FIXTURE
	SUSPENDED LINEAR FIXTURE
	SUSPENDED 8" CYLINDER PENDANT
	RECESSED DOWN LIGHT 6"

RENOVATION RCP KEY NOTES

NO.	DESCRIPTION
1	CONTINUOUS CEILING GRID WHERE DEMOUNTABLE PARTITIONS ARE LOCATED. PROVIDE CEILING RUNNERS FOR DEMOUNTABLE WALL ATTACHMENT.
2	OPEN TO STRUCTURE ABOVE.
3	UNLIT BAFFLE.
4	OVERHEAD WALL PARTITION TO DECK FOR DEMOUNTABLE WALL ATTACHMENT. REFER TO SECTION DETAIL 1/A310.
5	SEE ELECTRICAL DRAWINGS FOR POWER POLE LOCATIONS. CONTRACTOR SHALL PROVIDE BRACING TO STRUCTURE.
6	ALTERNATE 02 - CANOPY WITH SOFFIT AND CAN LIGHTS. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
7	PROVIDE EXTRA CEILING GRID PIECES FOR CEILING RUNNER TO ATTACH TO FOR DEMOUNTABLE WALLS. PLACE CEILING RUNNER WHERE DEMOUNTABLE WALLS ARE SHOWN. REFER TO DIMENSION PLAN FOR WALL LOCATIONS. REFER TO DETAIL 2/A310.



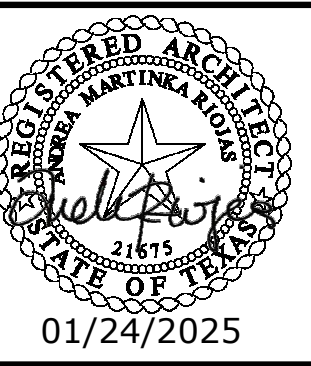
4 ALTERNATE 01 - RCP
A120 SCALE: 1/8" = 1'-0"

1 REFLECTED CEILING PLAN
A120 SCALE: 1/8" = 1'-0"

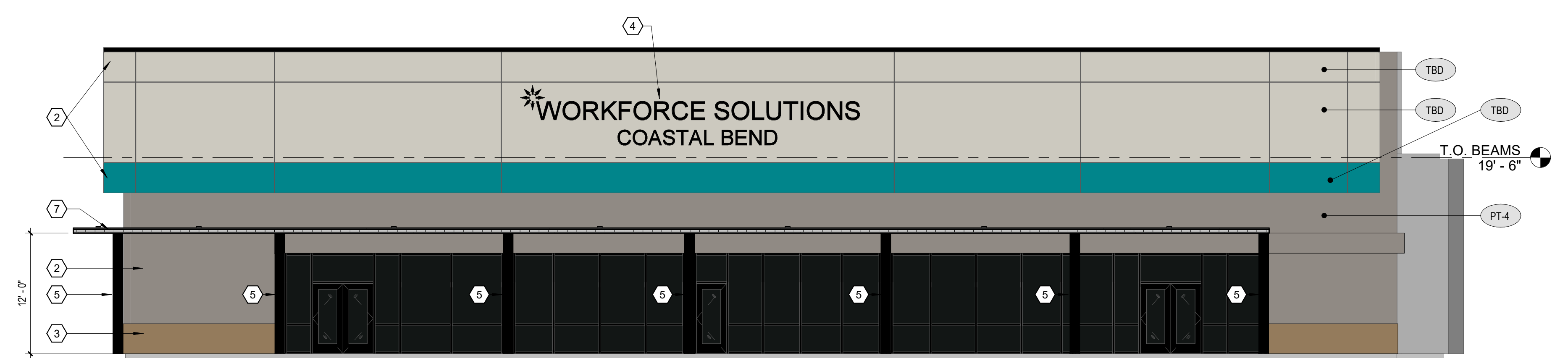


EXTERIOR ELEVATIONS KEY NOTES

NO.	DESCRIPTION
1	PROVIDE SIGN WITH FABRICATED ALUMINUM FACE LIT LETTERS AND GRAPHIC. LETTERS SHALL BE 18" AND 12" HIGH RESPECTIVELY. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. REPAIR EXISTING EIFS FINISH DUE TO ATTACHMENT OF NEW SIGN. MATCH EXISTING FINISH AND COLOR. SIGN MUST MEET WINDSTORM REQUIREMENTS, TDI 160 MPH WIND SPEED. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
2	EXTERIOR BUILDING FACADE TO RECEIVE NEW PAINT AS SCHEDULED.
3	EXISTING TILE TO REMAIN.
4	PROVIDE LED ILLUMINATED SIGN WITH FABRICATED ALUMINUM FACE LET LETTERS AND GRAPHIC. LETTERS SHALL BE 22" AND 18" HIGH RESPECTIVELY. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. REPAIR EXISTING EIFS FINISH DUE TO ATTACHMENT OF NEW SIGN. MATCH EXISTING FINISH AND PAINT AS SCHEDULED. SIGN MUST MEET WINDSTORM REQUIREMENTS, TDI 160 MPH WIND SPEED. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
5	PAINTED COLUMN. COLOR: TBD. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
6	PROVIDE INFILL AT EXTERIOR WALL TO MATCH EXISTING CONSTRUCTION AND THICKNESS. PAINT TO MATCH EXISTING.
7	ALTERNATE 02 - METAL CANOPY WITH SOFFIT AND CAN LIGHTS AS SPECIFIED. COLOR: TBD. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.



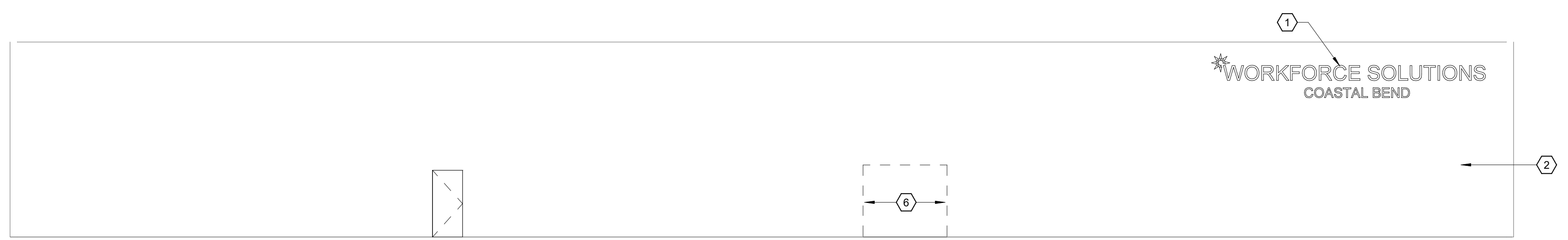
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1 EXTERIOR SOUTH ELEVATION
A201 SCALE: 1/8" = 1'-0"



2 EXTERIOR WEST ELEVATION
A201 SCALE: 1/8" = 1'-0"



3 EXTERIOR NORTH ELEVATION
A201 SCALE: 1/8" = 1'-0"

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EXTERIOR BUILDING ELEVATIONS

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SHEET NUMBER
A201

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DATE	DESCRIPTION

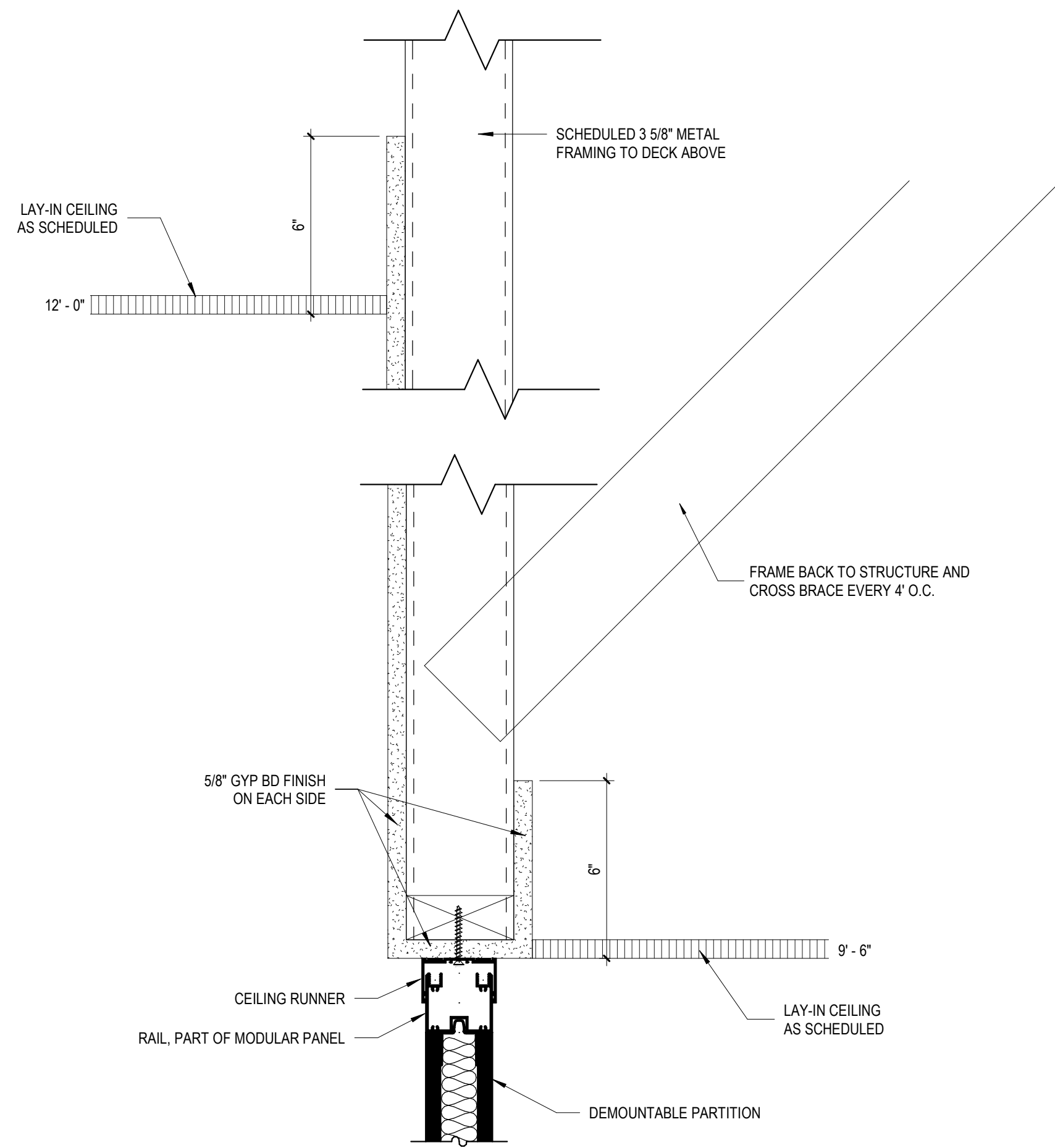
DETAILS

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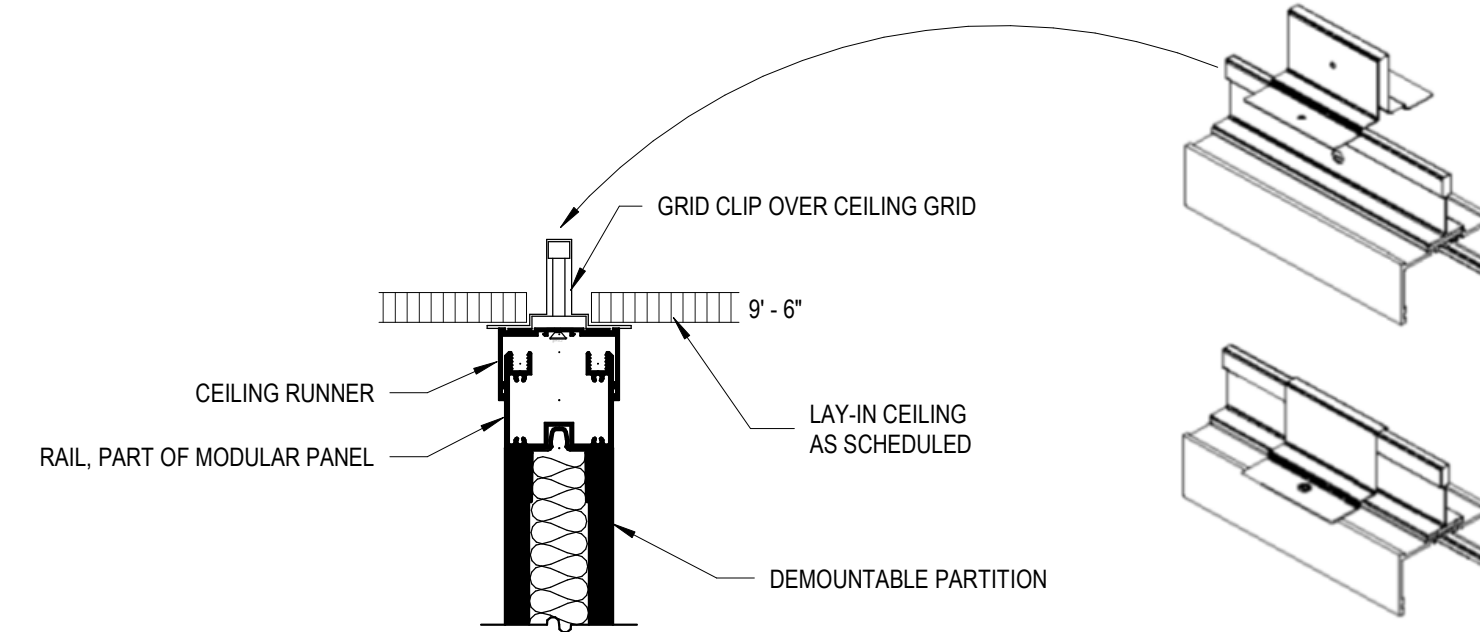
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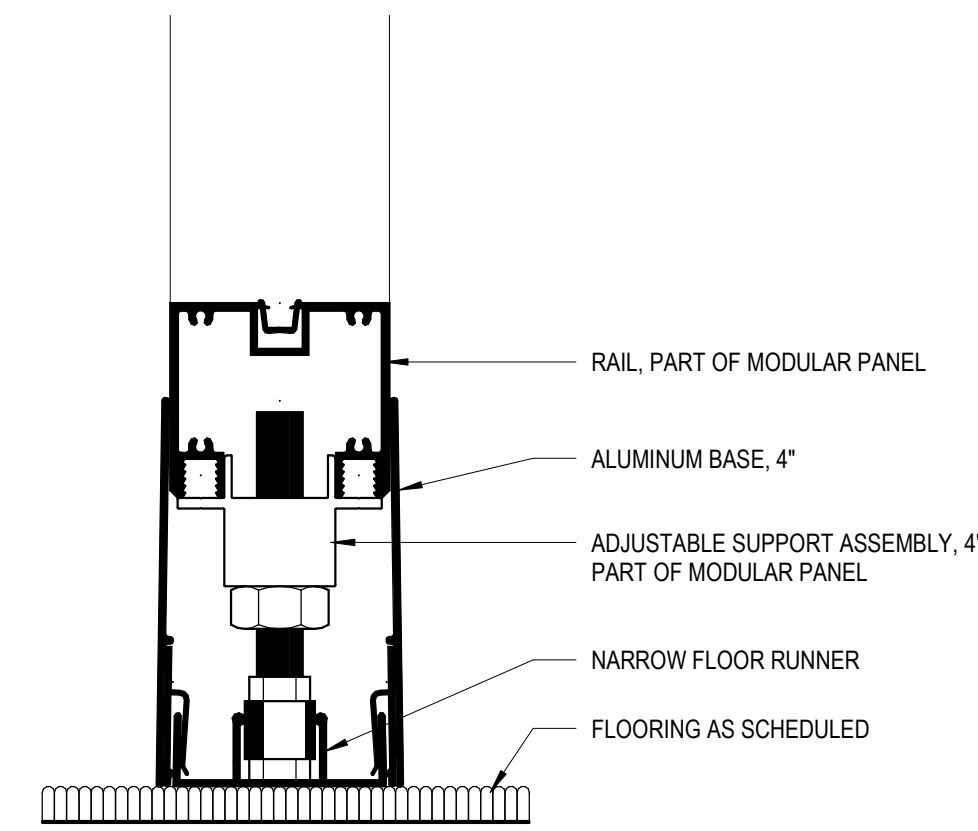
SHEET NUMBER
A310



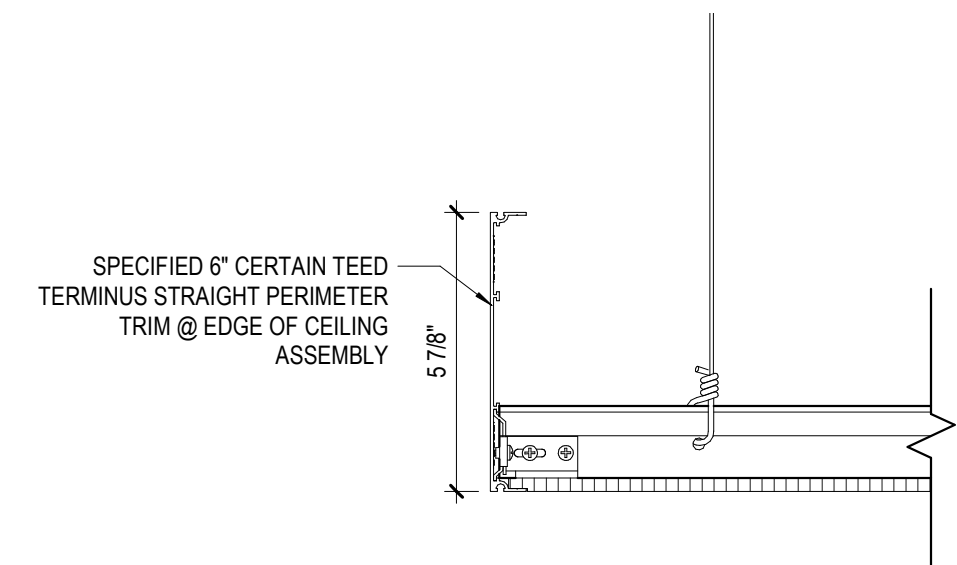
1 DEMOUNTABLE WALL - SOFFIT ATTACHMENT
A310 SCALE: 3" = 1'-0"



2 DEMOUNTABLE WALL - CEILING GRID ATTACHMENT
A310 SCALE: 3" = 1'-0"

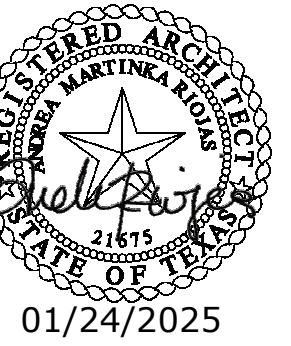


3 DEMOUNTABLE WALL - FLOOR
A310 SCALE: 1 1/2" = 1'-0"



4 SECTION DETAIL - TRIM EDGE @ ACOUSTICAL PANELS
A310 SCALE: 3" = 1'-0"

FRAME BACK TO STRUCTURE AND
CROSS BRACE EVERY 4' O.C.



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ENLARGED PLANS & INTERIOR ELEVATIONS

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SHEET NUMBER
A411

INTERIOR ELEVATION GENERAL NOTES

- REFER TO ELECTRICAL DRAWINGS FOR POWER AND DATA LOCATIONS.
- EXISTING GYPSUM BOARD SHALL BE PATCHED AND REPAIRED AT ALL DAMAGED AREAS OR WHERE MEP MODIFICATIONS ARE MADE. WALL SHALL BE RETEXTURED FOR A CONSISTENT FINISH, PAINT AS SCHEDULED.
- PROVIDE IN-WALL BLOCKING WHERE ALL SURFACE MOUNTED EQUIPMENT IS TO BE INSTALLED.
- ALL COUNTERTOPS SHALL BE SOLID SURFACE AS SCHEDULED.
- HEIGHT OF COUNTERTOPS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP OF THE SINK RIM.

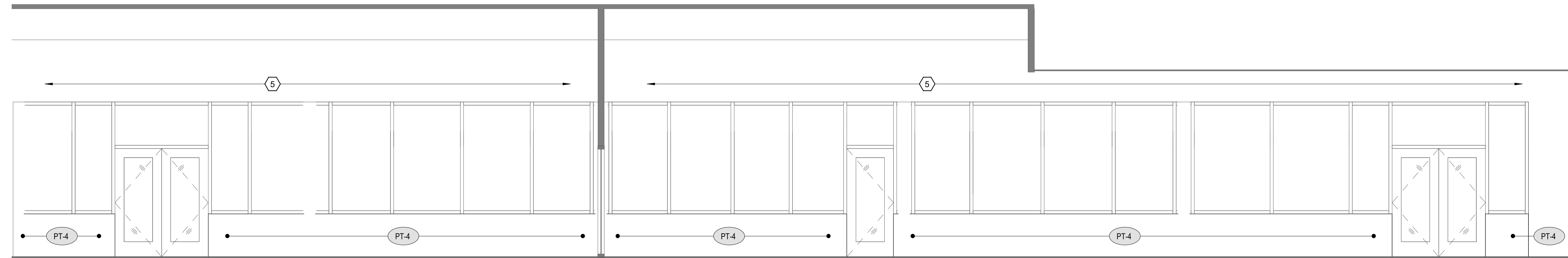
INTERIOR ELEVATION LEGEND

- EQ-X** EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.
- FR-X** FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.
- TA-X** TOILET ACCESSORY. REFER TO INTERIOR ELEVATIONS AND SCHEDULE.

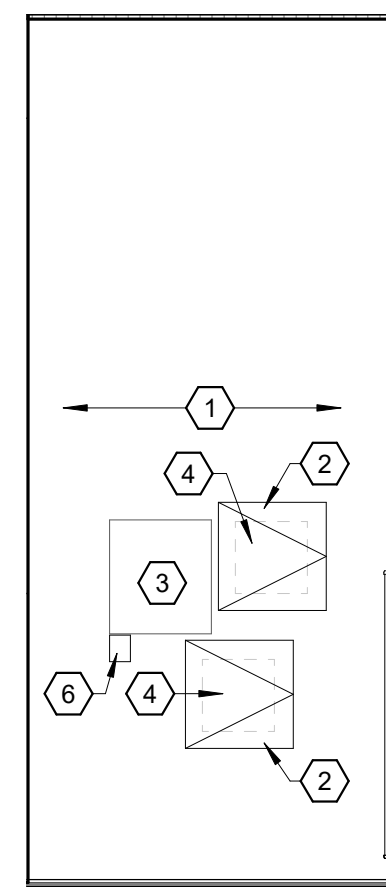
CABINET WIDTH $\frac{24"}{NT}$
CABINET TYPE
(REF SHEET A420 FOR DESCRIPTIONS)

INTERIOR ELEVATION KEY NOTES

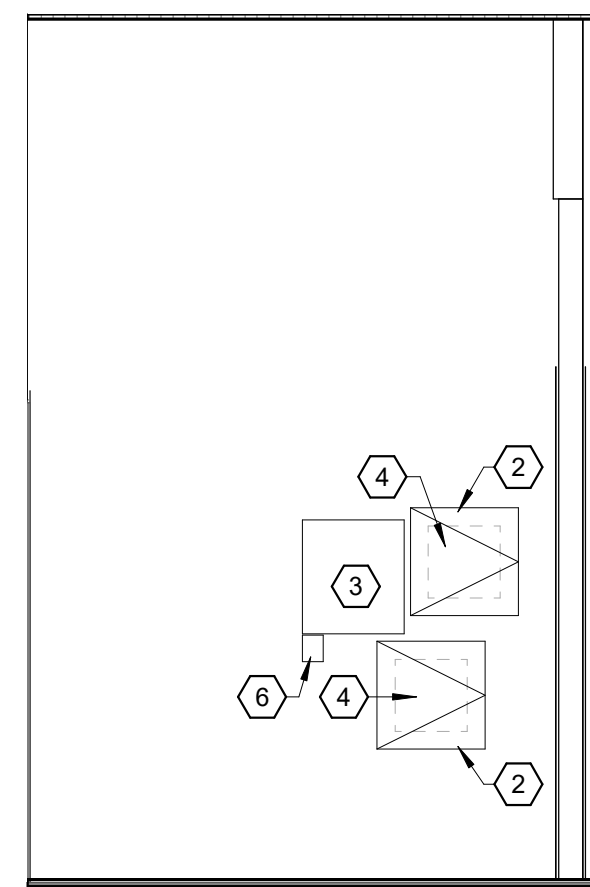
NO.	DESCRIPTION
1	PROVIDE WALL ENCLOSURE TO CONCEAL PART OF FIRE ALARM PANEL AND CONDUIT. WALL SHALL BE FLUSH WITH BLACK FIRE ALARM PANEL BOX DOOR. REFER TO REFERENCE PLAN FOR WALL TYPE.
2	18"X18" FLUSH DRYWALL ACCESS PANEL EQUAL TO LARSEN'S, MODEL NUMBER: L-DWB. PAINT TO MATCH WALL (PT-1).
3	FIRE ALARM PANEL BOX SHALL BE LEFT EXPOSED, HOWEVER, CONDUIT SHALL BE CONCEALED. SEAL ANY GAPS BETWEEN GYPSUM BOARD AND PANEL. WALL SHALL NOT CONFLICT WITH PANEL DOOR WHEN OPEN.
4	CONCEAL FIRE ALARM PANEL BOX AND DOCUMENTS BOX WITHIN ACCESS PANEL.
5	EXISTING WHITE PAINT TO REMAIN AS IS.
6	FIRE ALARM PULL STATION SHALL BE LEFT EXPOSED, HOWEVER, CONDUIT SHALL BE CONCEALED.



1 STOREFRONT
A411 SCALE: 1/4" = 1'-0"



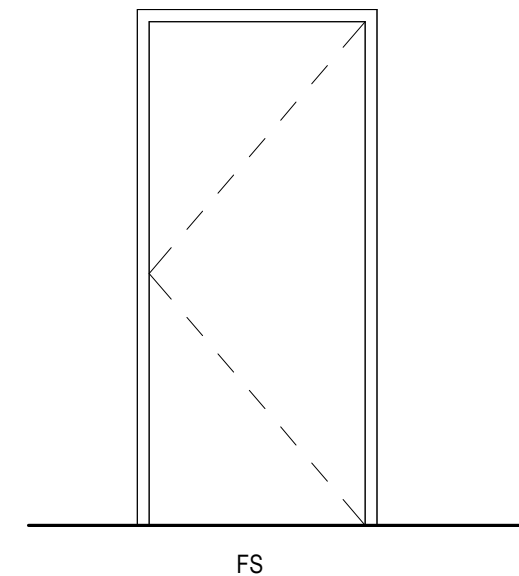
2 FIRE ALARM PANEL
A411 SCALE: 3/8" = 1'-0"



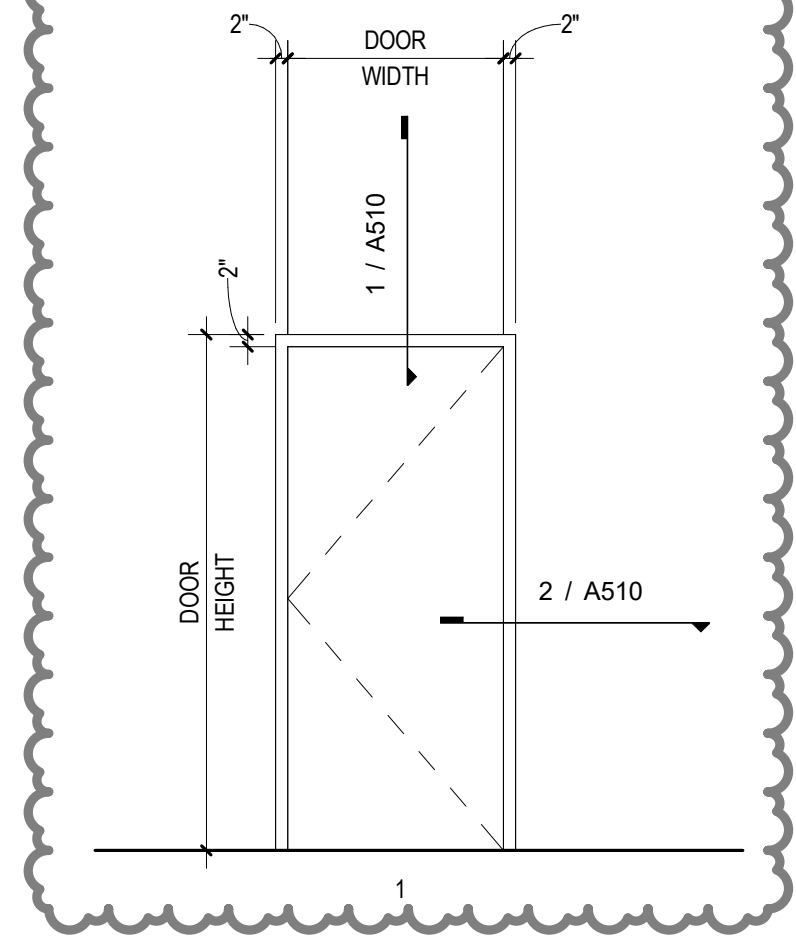
3 ALTERNATE 01 - FIRE ALARM PANEL
A411 SCALE: 3/8" = 1'-0"

DOOR SCHEDULE																	
NO.	DOOR		PANEL				FRAME				HWD SET	FIRE RATING	FROM		TO		COMMENTS
	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FINISH	TYPE	OVERALL DEPTH	MULLION	MATERIAL			FINISH	NO.	NAME	NO.	
117	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03	192	VRS OPEN SPACE	117	ELEC	
122	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03	193	WFS OPEN SPACE	E122	EXISTING MECHANICAL	
130.2	3'-0"	7'-0"	1 3/4"	FS	HM	SEE COMMENTS	MATCH EXIST.	8"		HM	SEE COMMENTS	01					ALTERNATE 03. NEW INTERIOR DOOR PANEL PAINTED PT-6, EXTERIOR DOOR PANEL TBD. NEW INTERIOR FRAME PAINTED PT-5, EXTERIOR FRAME TBD. CARD READER.
146	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03	193	WFS OPEN SPACE	146	WFS STORAGE	
163	3'-0"	6'-8"	1 3/4"	FS	ETR	SEE COMMENTS	EXIST.	8"		HM - ETR	SEE COMMENTS	05	193	WFS OPEN SPACE			INTERIOR DOOR PANEL PAINTED PT-6, EXTERIOR DOOR PANEL ETR. INTERIOR FRAME PAINTED PT-5, EXTERIOR FRAME ETR. CARD READER. AUDIOVISUAL RING CAMERA.
176	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	03	192	VRS OPEN SPACE	176	HSPK SUPPLY	
190	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	06			190	IT	CARD READER.
191	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5 7/8"		PREFINISHED STEEL	BLACK	04	192	VRS OPEN SPACE	191	SMALL CONFERENCE	
E3	3'-0"	6'-8"	1 3/4"	FS	ETR	PT-6	EXIST.	5 7/8"		HM - ETR	PT-5	ETR	117	ELEC	117	ELEC	
E4	3'-0"	6'-8"	1 3/4"	FS	ETR	PT-6	EXIST.	5 7/8"		HM - ETR	PT-5	ETR	E121	EXISTING FIRE RISER	192	VRS OPEN SPACE	
E7	3'-0"	7'-0"	1 3/4"	FS	ETR	PT-6	EXIST.	8"		HM - ETR	PT-5	ETR					
E110.2	3'-0"	7'-0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		ETR	ETR	07			192	VRS OPEN SPACE	
E130	3'-0"	7'-0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		ETR	ETR	07			193	WFS OPEN SPACE	
E143	3'-0"	7'-0"	1 3/4"	FS	ETR	ETR	EXIST.	5 7/8"		ETR	ETR	07			193	WFS OPEN SPACE	

DOOR PANEL TYPES



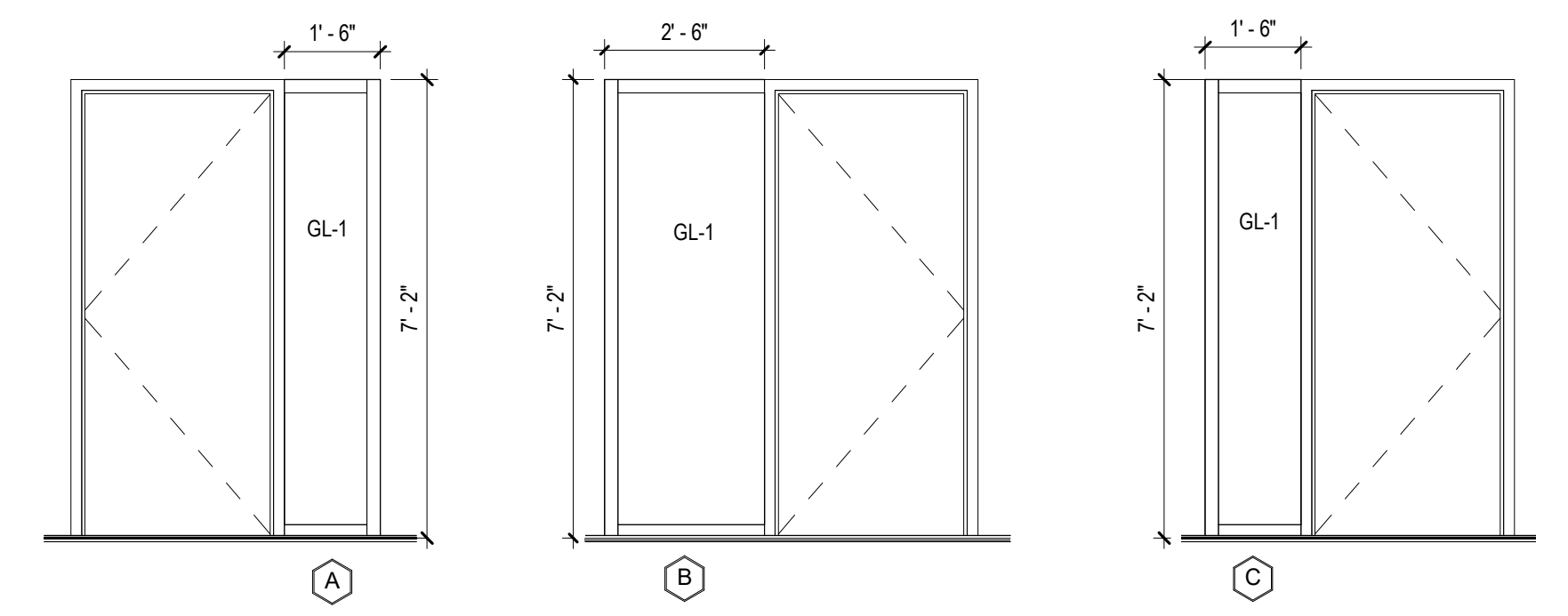
DOOR FRAME TYPES



THE FOLLOWING DOORS, FRAMES, AND HARDWARE ARE PART OF THE DEMOUNTABLE WALL SYSTEM

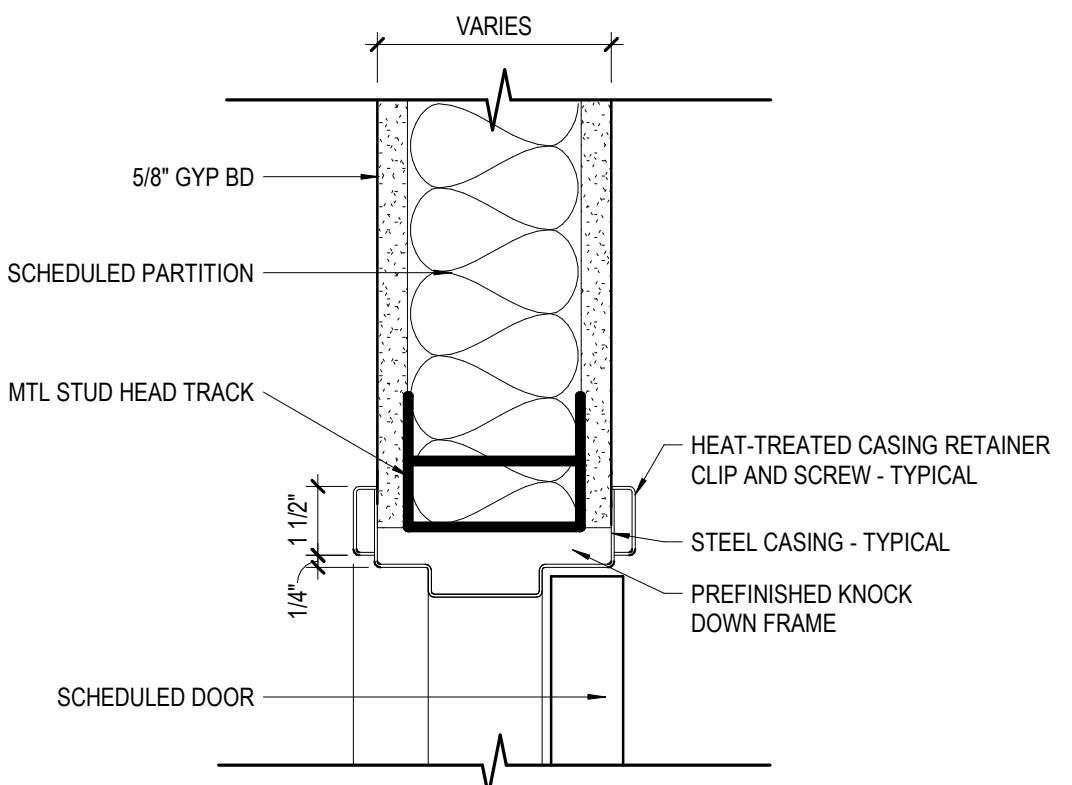
THE FOLLOWING DOORS, FRAMES, AND HARDWARE ARE PART OF THE DEMOUNTABLE WALL SYSTEM																	
NO.	DOOR		PANEL				FRAME				HWD SET	FIRE RATING	FROM		TO		COMMENTS
	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FINISH	TYPE	OVERALL DEPTH	MULLION	MATERIAL			FINISH	NO.	NAME	NO.	
177	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	03	192	VRS OPEN SPACE	177	VRS STORAGE	DEMOUNTABLE
178	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	192	VRS OPEN SPACE	178	OFFICE	DEMOUNTABLE
179	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	192	VRS OPEN SPACE	179	OFFICE	DEMOUNTABLE
180	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	192	VRS OPEN SPACE	180	OFFICE	DEMOUNTABLE
181	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	193	WFS OPEN SPACE	181	OFFICE	DEMOUNTABLE
182	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	193	WFS OPEN SPACE	182	OFFICE	DEMOUNTABLE
183	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	193	WFS OPEN SPACE	183	OFFICE	DEMOUNTABLE
184	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	192	VRS OPEN SPACE	184	OFFICE	DEMOUNTABLE
185	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	192	VRS OPEN SPACE	185	OFFICE	DEMOUNTABLE
186	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	192	VRS OPEN SPACE	186	OFFICE	DEMOUNTABLE
187	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	193	WFS OPEN SPACE	187	OFFICE	DEMOUNTABLE
188	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	193	WFS OPEN SPACE	188	OFFICE	DEMOUNTABLE
189	3'-0"	7'-0"	1 3/4"	FS	SCW	PLAM-1	1	5"		ALUM	BLACK	02	193	WFS OPEN SPACE	189	OFFICE	DEMOUNTABLE

INTERIOR FRAME TYPES

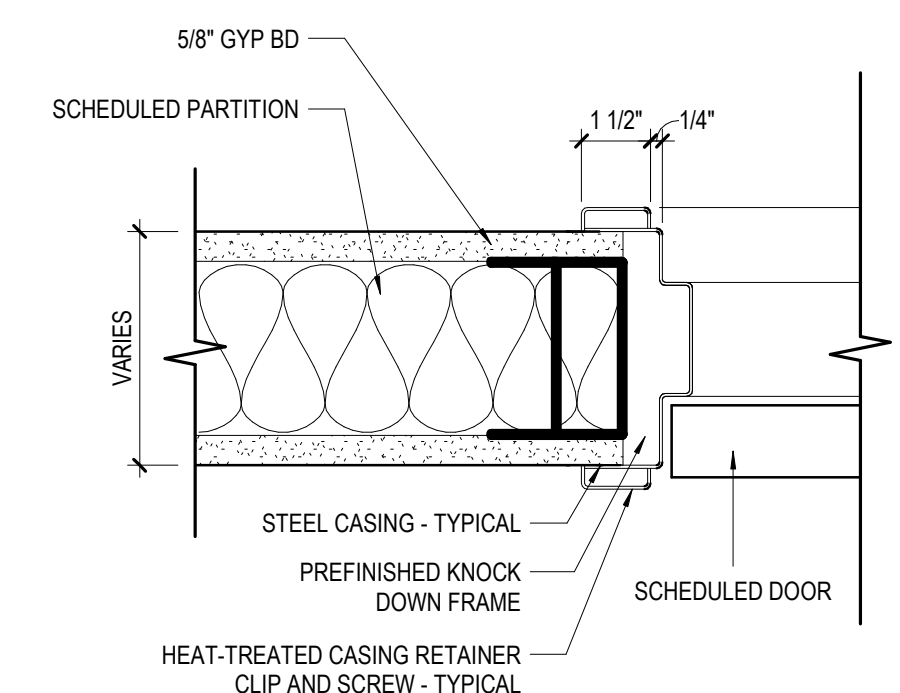


GLAZING TYPES
GL-1: TEMPERED GLASS

THE FOLLOWING DOORS, FRAMES, AND GLASS ARE PART OF THE DEMOUNTABLE WALL SYSTEM



1 TYP. STEEL DOOR FRAME - HEAD DETAIL
A510 SCALE: 3" = 1'-0"



2 TYP. STEEL DOOR FRAME - JAMB DETAIL
A510 SCALE: 3" = 1'-0"

DOOR HARDWARE SCHEDULE

SEE SPECIFICATIONS 08 71 00 FOR DETAILS

- SET 01: HINGE, RIM EXIT DEVICE, ELECTRIC STRIKE, POWER SUPPLY, SURFACE CLOSER, THRESHOLD, GASKETING, RAIN GUARD, SWEEP, CARD READER BY OTHERS. ALTERNATE 03
- SET 02: HINGE, OFFICE LOCKSET, WALL STOP, SILENCER
- SET 03: HINGE, STORAGE LOCKSET, WALL STOP, SILENCERS
- SET 04: HINGE, CLASSROOM SET, WALL STOP, SILENCERS
- SET 05: HINGE, RIM EXIT DEVICE, ELECTRIC STRIKE, POWER SUPPLY, CLOSER, THRESHOLD, GASKETING, RAIN GUARD, SWEEP, CARD READER, AUDIOVISUAL AND RECEIVER BY OTHERS.
- SET 06: HINGE, STORAGE LOCKSET, ELECTRIC STRIKE, POWER SUPPLY, CLOSER, SILENCER, WALL STOP, CARD READER BY OTHERS.
- SET 07: PASSAGE SET
- SET 08: PASSAGE SET, SURFACE CLOSER, WALL STOP, SILENCERS

NOTE: CARD READER HARDWARE AND ACCESS CONTROL INTEGRATION BY OTHERS.

HARDWARE FOR THE DEMOUNTABLE WALLS WILL BE PART OF THE WALL SYSTEM AND PROVIDED BY THE MANUFACTURER.

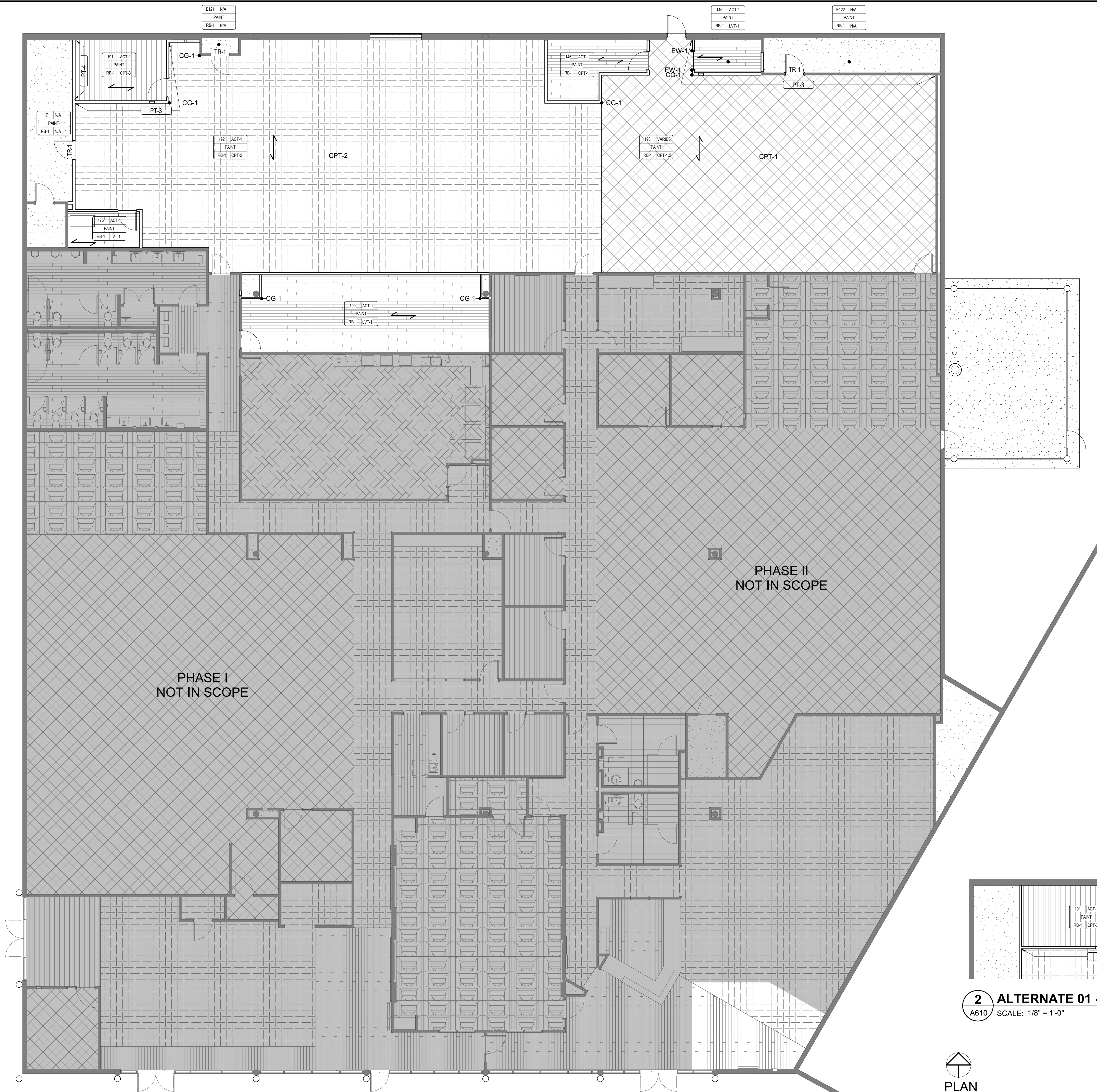
REVISIONS	
DATE	DESCRIPTION
02/11/2025 <td>PRELIMINARY</td>	PRELIMINARY
	ADDENDUM 01

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

DOOR & WINDOW SCHEDULES

JOB NO.	202415
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	KW
CKD. BY:	AR

SHEET NUMBER
A510



1 INTERIOR FINISH PLAN
A610 SCALE: 1/8" = 1'-0"

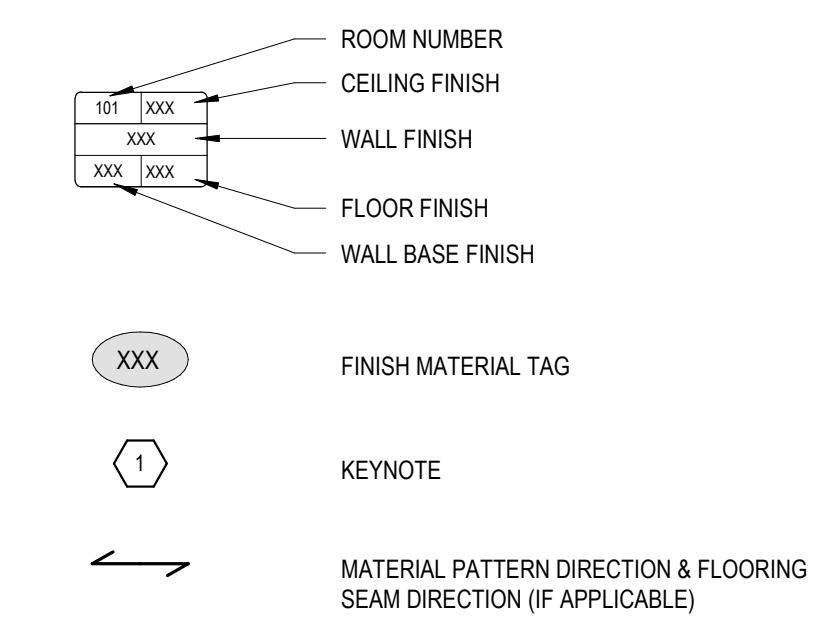
2 ALTERNATE 01 - FINISH PLAN
A610 SCALE: 1/8" = 1'-0"



**FINISH PLAN
GENERAL NOTES**

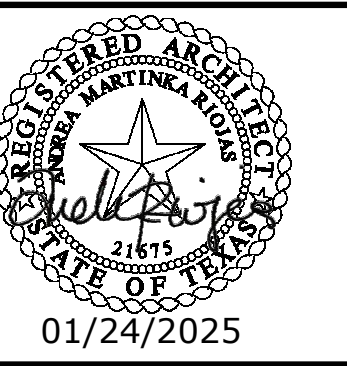
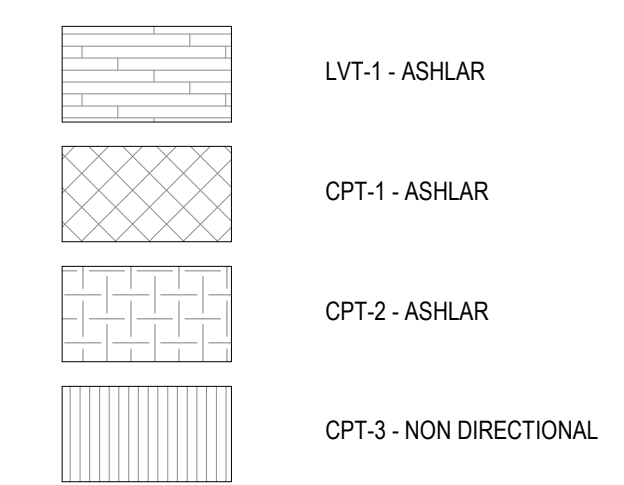
- REFER TO INTERIOR FINISH PLAN FOR FLOOR DIRECTIONS.
- ALL FLOOR FINISH TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR WHEN DOOR IS IN CLOSED POSITION.
- PAINT ALL ELECTRICAL AND ACCESS PANELS TO MATCH ADJACENT WALL COLOR, U.N.O.
- PAINT ALL ACCESS PANELS IN CEILING TO MATCH ADJACENT CEILING COLOR, U.N.O.
- HORIZONTAL AND VERTICAL SURFACE OF FURR-DOWN TO MATCH ADJACENT WALLS AND CEILING, U.N.O.
- REFER TO REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS.
- REFER TO SHEET A612 FOR PAINT LOCATIONS AND DETAILS.

**FINISH PLAN
FINISH SYMBOL LEGEND**



**FINISH PLAN
FLOORING LEGEND**

NOTE: FLOOR CONFIGURATION AND LAYOUT SHALL BE REVIEWED AND APPROVED BY ARCHITECT. THE FLOOR PATTERN SHOWN IS REPRESENTATION FOR AREA COVERAGE ONLY. DO NOT INSTALL FLOORING BASED OFF PATTERN SHOWN.



clk
architects & associates
615 N. Upper Broadway
Suite 1250
Corpus Christi, TX
78401-0750

REVISIONS	
DATE	DESCRIPTION

**WORKFORCE SOLUTIONS
PHASE III RENOVATION**
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CORPUS CHRISTI, TX 78415

INTERIOR FINISH PLAN

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JOB NO.	202415
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	KW
CKD. BY:	AR

SHEET NUMBER
A610

REVISIONS		
DATE	DESCRIPTION	MARK
02/11/2025 <td>PREBID ADDENDUM 01 <td>1</td> </td>	PREBID ADDENDUM 01 <td>1</td>	1

**WORKFORCE SOLUTIONS
PHASE III RENOVATION**
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

INTERIOR ROOM FINISH SCHEDULE & SIGNAGE

12505 ASTOR DRIVE, SUITE 200, CORPUS CHRISTI, TX 78415
PH: 361.645.4400
WWW.WORKFORCE-SOLUTIONS.COM
ARCHITECT: GREG M. CLARK, P.E., STATE OF TEXAS REG. NO. 21675

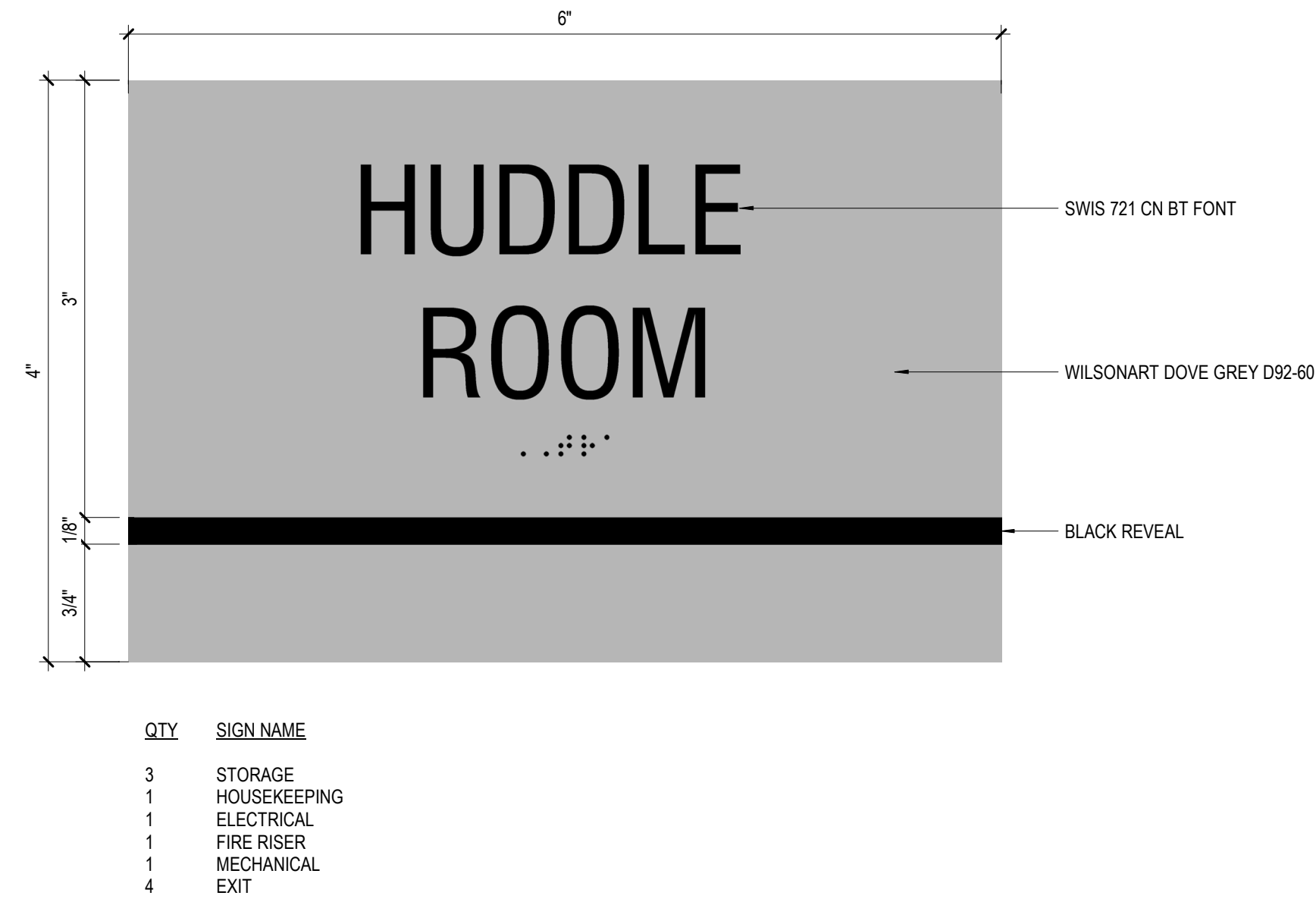
JOB NO. 202415
PHASE: CONSTRUCTION DOCUMENTS
ISSUE DATE: 01/24/2025
DRN. BY: KW
CKD. BY: AR

SHEET NUMBER
A611

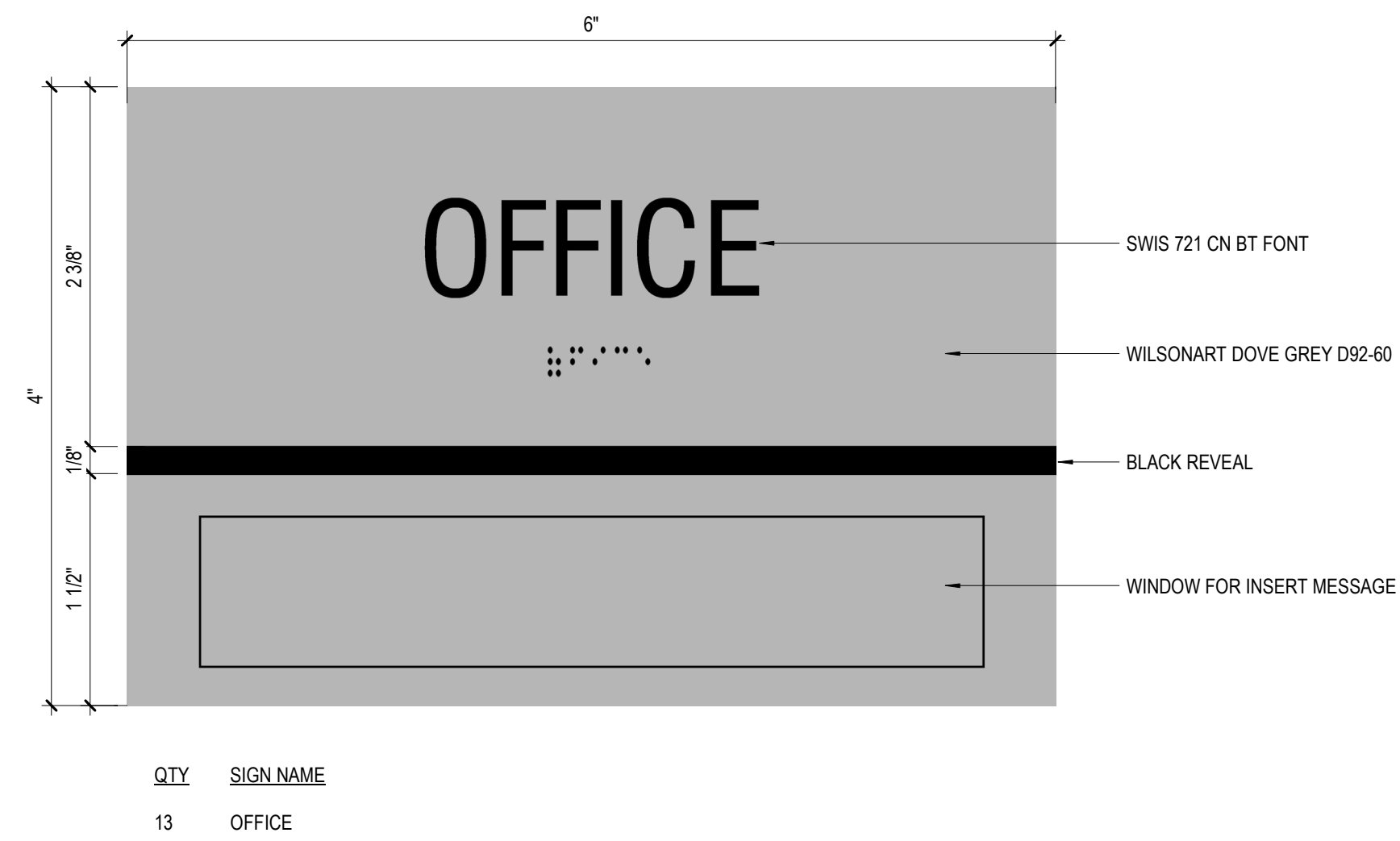
NOTE: QUANTITY OF ALL SIGN TYPES ARE ESTIMATED BASED ON THE FLOOR PLAN DESIGN. A SIGN SCHEDULE WILL BE PROVIDED FOR REVIEW DURING SHOP DRAWING PROCESS.

ALL SIGNAGE MOUNTED TO ADJACENT SIDELITE SHALL HAVE BACKER PANEL.

TYPE A - ROOM NAME SIGNAGE - QTY: 11



TYPE B - ROOM NAME W/ INSERT SIGNAGE - QTY: 13



ROOM FINISH SCHEDULE											
NUMBER	NAME	BASE FINISH	FLOOR FINISH	NORTH	SOUTH	EAST	WEST	CEILING FINISH	CEILING HEIGHT	AREA	COMMENTS
117	ELEC	RB-1	N/A	PT-1	PT-1	PT-1	PT-1	N/A	-	223 SF	
137	OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	147 SF	
145	WFS STORAGE	RB-1	LVT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	58 SF	
146	WFS STORAGE	RB-1	CPT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	126 SF	
176	HSKP SUPPLY	RB-1	LVT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	69 SF	
177	VRS STORAGE	RB-1	CPT-2	-	PT-1	-	PT-1	ACT-1	9'-0"	63 SF	
178	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
179	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
180	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
181	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
182	OFFICE	RB-1	CPT-2	PT-1	-	-	-	ACT-1	9'-6"	80 SF	
183	OFFICE	RB-1	CPT-2	PT-1	-	PT-1	-	ACT-1	9'-6"	80 SF	
184	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
185	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
186	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
187	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
188	OFFICE	RB-1	CPT-2	-	PT-1	-	-	ACT-1	9'-6"	80 SF	
189	OFFICE	RB-1	CPT-2	-	PT-1	ETR	-	ACT-1	9'-6"	109 SF	
190	IT	RB-1	LVT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	490 SF	
191	SMALL CONFERENCE	RB-1	CPT-3	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-0"	148 SF	
192	VRS OPEN SPACE	RB-1	CPT-2	PAIN	PAIN	PAIN	PAIN	ACT-1	12'-0"	1009 SF	REFER TO FINISH PLAN FOR PAINT LOCATIONS.
193	WFS OPEN SPACE	RB-1	CPT-1,2	PAIN	PAIN	PAIN	PAIN	VARIES	VARIES	2495 SF	REFER TO FINISH PLAN FOR PAINT LOCATIONS. REFER TO RCP FOR CEILING HEIGHTS.
E121	EXISTING FIRE RISER	RB-1	N/A	-	-	-	-	N/A	-	15 SF	
E122	EXISTING MECHANICAL	RB-1	N/A	PT-1	PT-1	PT-1	PT-1	N/A	-	165 SF	

FINISH LEGEND

FLOORING

LUXURY VINYL TILE

LVT-1 MANUF: INTERFACE
SERIES: STEADY STRIDE
COLOR: BARLEY B00107
SIZE: 3MM THICK, 5'X39"
INSTALLATION: ASHLAR

CARPET TILE

CPT-1 MANUF: INTERFACE
SERIES: OPEN AIR, 408
COLOR: NATURAL 106943
SIZE: 10'X39"
INSTALLATION: ASHLAR

CPT-2 MANUF: INTERFACE
SERIES: OPEN AIR, 410
COLOR: CHARCOAL 106969
SIZE: 10'X39"
INSTALLATION: ASHLAR

CPT-3 MANUF: INTERFACE
SERIES: OPEN AIR, 403
COLOR: NATURAL 106731
SIZE: 24"X24"
INSTALLATION: NON DIRECTIONAL

BASE

RUBBER BASE

RB-1 MANUF: ROPPE
COLOR: LUNAR DUST
TYPE: COVE TOE
SIZE: 4" HIGH

WALL

PAINT

PT-1 MANUF: SHERWIN WILLIAMS
COLOR: GREEK VILLA SW 7551
FIELD COLOR

PT-2 MANUF: SHERWIN WILLIAMS
COLOR: HIGH REFLECTIVE WHITE SW 7757
GYPSUM BOARD CEILING COLOR

PT-3 MANUF: SHERWIN WILLIAMS
COLOR: SALTY DOG SW 9177
ACCENT COLOR

PT-4 MANUF: SHERWIN WILLIAMS
COLOR: GAUNTLET GRAY SW 7019
ACCENT COLOR

PT-5 MANUF: SHERWIN WILLIAMS
COLOR: BLACK MAGIC SW 6991
EXISTING DOOR FRAME COLOR

PT-6 MANUF: SHERWIN WILLIAMS
COLOR: GAUNTLET GRAY SW 7019
EXISTING DOOR PANEL COLOR

WALL PROTECTION

CORNER GUARD

CG-1 MANUF: INPRO
SERIES: 160BN BLUNOSE
COLOR: WHITE SAND 0103
SIZE: 4" HIGH

END WALL

EW-1 MANUF: INPRO
SERIES: 160BN BLUNOSE
COLOR: WHITE SAND 0103
SIZE: 4" HIGH

CEILING

ACOUSTICAL CEILING TILE

ACT-1 MANUF: CERTAINTEED
SERIES: SYMPHONY F, TRIM
COLOR: WHITE
SIZE: 24"X24", 15/16" EXPOSED TEE GRID
THICKNESS: 5/8"

MILLWORK

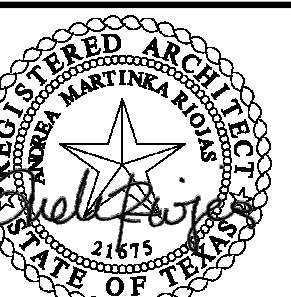


PLASTIC LAMINATE

PLAM-1 MANUF: FORMICA
COLOR: PECAN WOODLINE 5883-58
FINISH: MATTE
INSTALLATION: VERTICAL GRAIN
LOCATION: DOORS

TRANSITION TRIM

TR-1 MANUF: ROPPE
TYPE: ADAPTER
COLOR: LUNAR DUST



01/24/2025



615 N. Upper Broadway
Suite 1250
Corpus Christi, TX
78401-0750

FFE PLAN LEGEND

- EQ-X** EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.
- FR-X** FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.

REVISIONS

MARK	DATE	DESCRIPTION

WORKFORCE SOLUTIONS
 PHASE III RENOVATION
 4981 AYERS STREET
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FURNITURE FIXTURE EQUIPMENT & SCHEDULE

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JOB NO. 202415
 PHASE: CONSTRUCTION DOCUMENTS
 ISSUE DATE: 01/24/2025
 DRN. BY: KW
 CKD. BY: AR

SHEET NUMBER
A710



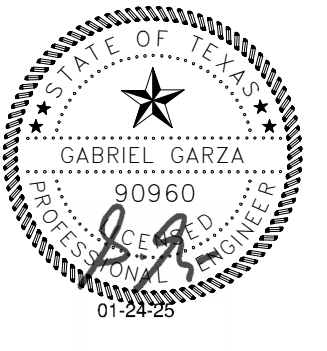
FURNITURE SCHEDULE					
TAG	MODEL	COMMENTS	OWNER PROVIDED	OWNER INSTALLED	COUNT
FR-1	PICNIC TABLE	GLOBAL INDUSTRIAL, URBAN 6' PLASTIC PICNIC TABLE & BENCH SET, TAN, MODEL: WB348137	Yes	Yes	2
FR-2	PLANTER	ALUMINUM RECTANGULAR PLANTER, CUSTOM COLOR POWDER COATED, SIZE TBD	Yes	Yes	3
FR-3	SMOKERS POLE	GLOBAL INDUSTRIAL, RUBBERMAID SMOKERS POLE, BLACK 4" DIA., MODEL: WB853493	Yes	Yes	1
FR-4	TRASH CAN	GLOBAL INDUSTRIAL, OUTDOOR SLATTED STEEL TRASH CAN WITH FLAT LID, 36 GALLON, BLACK, MODEL: WB237728BK	Yes	Yes	1
FR-5	STORAGE CABINET	5' HIGH, 24" DEEP, LOCKABLE	Yes	Yes	2
FR-6	CREDENZA	72" W X 24" D	Yes	Yes	2
FR-7	WORK BENCH	60" W X 30" D	Yes	Yes	2
FR-8	DESK	48" W X 24" D	Yes	Yes	2
FR-9	METAL STORAGE RACKS	48" W X 24" D	Yes	Yes	7

1 FURNITURE FIXTURE EQUIPMENT PLAN
 A710 SCALE: 1/8" = 1'-0"



STRUCTURAL GENERAL NOTES

Garza + McLain
STRUCTURAL ENGINEERS, INC.
13113 Southwest Freeway, Suite 163
Sugar Land, Texas 77478
(281) 494-1230 (voice)
(281) 494-1234 (fax)



I. COORDINATION

- A. It is the responsibility of the General Contractor to obtain all Contract Documents and Addenda and to submit such documents to all subcontractors and material suppliers prior to the submittal of shop drawings, fabrication of any structural members, and construction.
- B. The General Contractor shall compare the Architectural, Structural Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.
- C. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.
- D. The details designated as "Typical Details" apply generally to the Drawings in all areas where conditions are similar to those described in the details.
- E. All structural elements of the project have been designed by the Structural Engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together.
- F. Lateral-Force Resisting System: Is existing and has not been modified or added to.

- G. The Contract Structural Drawings and Specifications represent the finished structure, and except when specifically shown, do not indicate the means or methods of construction. The Contractor and their Sub-Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adhesives to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failure of any of these persons to carry out the Work in accordance with the Contract Documents.
- H. Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the Engineer, shall govern.
- I. Periodic site observation by field representatives of Garza + McLain Structural Engineers, Inc. is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Work, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor.

II. SUBSTITUTIONS

All requests for substitutions of materials or details shown in the contract documents shall be submitted for approval during the bidding period. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings to be deducted from the contract and/or schedule impact and the material or product has been approved by the International Code Council Evaluation Service (ICCES), TDI, or Florida Building Code, and all reports from agencies noted above are included in the request. Submittals not satisfying the above criteria will not be considered.

III. MAINTENANCE STATEMENT

- A. All structures require periodic maintenance to extend life span and to insure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner. This program shall include such items as but not limited to painting of structural steel, protective coating for concrete, sealants, caulked joints, expansion joints, control joints, spalls and cracks in concrete, and pressure washing of exposed structural elements exposed to a salt environment or other harsh chemicals.
- B. Site Drainage: it is recommended that the site drainage be well developed surface water should be directed away from the foundation soils. (Use a minimum slope of 5% within 10 feet of the foundation). No ponding of surface water shall be allowed near the structure during or after completion of the construction & the landscaping. The Contractor shall advise the owner of the site drainage requirements. The Engineer is not liable for foundation issues if the site is not maintained.

IV. CODES

- A. The General Building Code used as the basis for the structural design is as follows:
 - International Building Code, 2018 Edition with the Texas Windstorm Adopted Amendments.
 - International Building Code, 2021 Edition with the City of Corpus Christi Adopted Amendments.
- B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318.
- C. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction, Latest Edition.
- D. Light Gauge Steel: Specification for the design of cold formed steel structural members, American Iron and Steel Institute, latest edition.

V. DESIGN LOADS

- A. Design Loads include the self weight of the structural elements and the following superimposed loads:

1. Collateral	2 psf
---------------	-------
- B. Live Loads:

OCCUPANCY OR USE	UNIFORM	CONCENTRATED
1. Level 1	100	
2. Roof (unreduced)	20	
- C. Wind Loads:

Wind lateral load on structural frame is based on ASCE 7 using the following:

1. Basic Wind Speed (3 sec. ULT)	143 mph	
2. Exposure	C	(1.0; ULT.)
3. Category	II	
4. On Condensing Unit	$P_s = 77$ PSF, $P_v = 60.7$ PSF	
- D. Texas Architecture Barrier Act Standard. The structural strength of grab bars, tub and shower seats, fasteners, and mounting devices shall meet the following specifications:
 - Bending stress in a grab bar or seat induced by the maximum bending moment from the application of 250 lbf shall be less than the allowable stress for the material of the grab bar or seat.
 - Shear stress induced in a grab bar or seat by the application of 250 lbf shall be less than the allowable shear stress for the material of the grab bar or seat. If the connection between the grab bar or seat and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.
 - Shear force induced in a fastener or mounting device from the application of 250 lbf shall be less than the allowable lateral load of either the fastener or the mounting device or the supporting structure, whichever is the smaller allowable load.
 - Tensile force induced by a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.
 - Grab bars shall not rotate within their fittings.
- E. Handrails and Guardrails: Handrails and guardrails shall be designed for 50 pound/ft applied horizontally at right angles to the top rail as well as a 200 pound concentrated load applied in any direction at any point along the top rail. The railing shall have attachment devices to adequately anchor to the supporting structure. Intermediate rails (all except handrails), balusters, and panels fillers shall be capable of sustaining a horizontally applied 50 lb normal load on an area not to exceed one square foot including openings and spce in between rails.

VI. SUBMITTALS

- A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Contract Drawings shall not be reproduced and used as shop drawings. All items deviating from the Contract Drawings or from previously submitted shop drawings shall be cloued.
- B. The contractor shall review shop drawings for compliance with the contract documents and shall certify that he has done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the contractor and the date. Submittals which do not reflect the contractor's approval, signature and date will be returned without review.
- C. Where review and return of shop drawings is required or requested, the engineer will review each submittal and, where possible, return within two weeks of receipt.
- D. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the contractor from compliance with requirements of the plans and specifications. The engineer's review is for general conformance with the requirements of the contract documents. The contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating his work with that of all other contractors.
- E. General Contractor shall submit electronic copies of all submittals using a mutually agreeable method of transmission.
- F. Shop Drawings:
 - The General Contractor shall submit for Engineer review shop drawings for the following items:
 - Reinforcing Steel
 - Miscellaneous Steel
 - Concrete Mix Designs
 - Structural steel
 - Cold-Formed Metal Framing Members and Connection Material.
 - CU curb and CU

Items marked (*) shall be designed by an engineer and drawings shall be sealed by a registered engineer in the state where the project is located. Items marked (#) shall be submitted to Engineer for Owner's record only and will not have the Engineer's shop drawing stamp affixed.
 - The omission from the shop drawings of any material required by the Contract Documents to be furnished shall not relieve the Contractor of the responsibility of furnishing and installing such materials, regardless of whether the shop drawings have been reviewed and approved.

VII. TESTING LABORATORY SERVICES

- A. Work specified herein shall be performed by a qualified Independent Testing Laboratory, selected and paid by the Owner. The Contractor shall be responsible for notifying the Independent Testing Laboratory at least 24 hours of advance of materials that require testing. The contractor shall pay for all retests of materials not meeting the requirements in the Contract Documents. Reports of each Test shall be prepared by the Independent Testing Laboratory and submitted promptly to the Owner, Contractor, Architect, and Engineer. Items found not to comply with the Construction Documents shall be brought to the immediate attention of the Contractor and Architect/ Engineer for resolution.
- B. Filling and Backfilling operation:
 - Analyze backfill samples delivered by the contractor to determine compliance with gradation and quality requirements of the geotechnical report.
 - Make in place compaction tests for moisture content, moisture density relationship, and density of materials in place. Perform one test for each 5000 square feet of area per lift.
 - Verify Compaction of utility trenches.
- C. Concrete inspection and testing:
 - Secure composite samples of concrete at the jobsite in accordance with ASTM C172.
 - Mold and cure for specimens from each sample in accordance with ASTM C31. Test specimens in accordance with ASTM C39 for each pour of concrete.
 - Test one cylinder @ 7 days, 2 @ 28 days, and hold one for 56 days (test only if 28 day strength is low.)
 - Perform one strength test (four cylinders) for each 50 cubic yards of fraction thereof, of each mix design placed in the day. Test one cylinder @ 7 days, 2 @ 28 days, and hold one for 56 days (test only if 28 day strength is low.)
 - Make one slump test for each set of cylinders following the procedural requirements of the contractor for correction, and if uncorrected, reported to the engineer.
- D. Concrete Reinforcement: Inspect all concrete reinforcing steel and embedded metal assemblies prior to placement of concrete for compliance with Contract Documents and shop drawings. All instances of non-compliance shall be immediately brought to the attention of the contractor for correction, and if uncorrected, reported to the engineer.
- E. Special Inspections: Special Inspections shall be performed in accordance with Chapter 17 of the 2021 IBC by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all tests. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and submit reports to the Registered Design Professional (RDP/IR/C) in Responsible Charge for all time spent at the site and shall notify the General Contractor responsible for the quality of the Project of the non-complying items. These Special Inspections are in addition to other listed in these Structural Notes or Project Specifications.

VIII. CAST IN PLACE CONCRETE

- A. Classes of Concrete:

All concrete shall conform to the requirements as specified in the table below unless noted otherwise on the drawings:

Concrete Mix Schedule:						
Conc. Class	Strength psi	Agg. Type	Agg. Size	Slump Inches	Max. w/c	Notes
A	3000	NWT	1 1/2"	5-7	---	
- B. Maximum shrinkage of the concrete shall be 0.03% at 28 days as determined by ASTM C157.
- C. Horizontal construction joints in concrete pours shall be permitted only where indicated on the drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on drawings for review by the Architect and Structural Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.

IX. CONCRETE REINFORCING

- A. Concrete reinforcement for the project shall conform to the following:
 - All Reinforcing Steel shall be ASTM A615, Grade 60 unless noted otherwise in the drawings or these notes.
 - Deformed Bar Anchors: ASTM A496 minimum yield strength 70,000 PSI as noted on the drawings. Reinforcing bars shall not be substituted for deformed bar anchors.
- B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards unless shown otherwise.
- C. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
 - Provide Class B lap at other location pending Engineer's approval.
- D. Welding of reinforcing steel will not be permitted unless specifically shown on drawings.
- E. Heat shall not be used in the fabrication or installation of reinforcement.
- F. Reinforcing steel clear cover shall be as follows:
 - Piers 1-1/2" top, 3" side, 3" bottom

"Exterior Exposure" refers to concrete exposed to air or weather.

X. TEXAS DEPARTMENT OF WINDSTORM CERTIFICATION

- A. Texas Department of Windstorm Certification:

The project is located in NUECES County. All exterior windows, doors, wall coverings, roof coverings, canopies and mechanical equipment and their attachment to the main structure must be designed for a component and cladding wind pressure corresponding to a 3-sec gust of 143 mph wind speed Exposure C according to the International Building Code 2018 with the Texas Windstorm Amendments. All products will require certification stating that the products have been designed and installed for the components and cladding uniform static wind pressure of the aforementioned code. The sub-contractor shall submit the wind storm product certification, the component and cladding wind pressure the product was designed for, any manufacture certification in regards to Texas Wind Storm, and the connection requirements for the product to the Engineer of Record. In addition, all exterior openings i.e. windows and doors shall be impact resistant to wind debris.
- B. Texas Windstorm Submittals.

The Contractor and Subcontractors must submit products approved by the Texas Department of Insurance or Equal. When submitting an equal Test Reports, Engineered Calculations and Elevations with Attachment Anchorage must be submitted. Any submittal without proper certifications and data proving that the product meets TDI will be rejected.

 - Exterior Canopies
- C. Texas Windstorm Inspections
 - Canopy Foundations
 - Aluminum Canopy
 - CU Curb
 - CU Connection to Curb
- D. TDI Corrosion Resistance Requirements for Construction in the Designated Catastrophe Zone, as defined by TDI, the following modifications must be made to the Fastener Schedule:
 - Metal connectors and fasteners located in open areas shall be either stainless steel and meet ASTM A167; hot-dip galvanized after fabrication and meet ASTM A123 or ASTM A153; hot-dip galvanized or electrogalvanized in accordance with ASTM A641; mechanically deposited zinc coatings in accordance with ASTM B695, or electrodeposited zinc coatings in accordance with ASTM B633.
 - Metal connectors and fasteners located in vented or enclosed areas may meet the requirements of R325.1.2.1 or shall be epoxy-coated in accordance with ASTM A899.
 - Exception for all Areas - Metal connectors and fasteners located in conditional areas (Heated and Cooled Living Areas) are not required to be corrosion resistant. One-half inch diameter or greater steel bolts are not required to be corrosion resistant.
 - Open Areas Shall Include Porches, Decks, Carports, Exterior Wall Coverings, Roof Coverings, Metal Ties for Stone and Masonry Veneer, The Underside of Elevated Structures, Anchors for Sealing Mechanical Equipment, Garage Door Attachments, Roof Vent Attachments, Skylight Attachments, and Impact Protective Systems (Shutters).
 - Vents Areas Shall Include Attics, Exterior Wall Stud Cavities, Crawl Spaces, Window and Exterior Door Attachments, Roof Sheathing, and Wall Sheathing.

- E. Products that are not Approved by TDI or The Florida Building Code will require Certification by a professional Engineer. The drawings and calculations shall be sealed. Additional cost will be charged to the Contractor for review of submittal that are not TDI or Florida Building Code Approved. Certification by a Professional Engineer must include forces from impact and make sure connections can with stand impact force. Submittal without impact forces shall be rejected.

XI. STRUCTURAL STEEL

- A. Material
 - All hot rolled steel members shall be new domestic, and conform to ASTM specification A6.
 - ASTM Specification and Grade. Clearly mark the grade on each member.
 - Unless noted otherwise structural steel members shall be:
 - Angles shall conform to ASTM A36.
 - Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
 - Structural steel plate shall conform to ASTM A36 or ASTM A572 Grade 50. See details for specific requirements.
- B. Fabrication
 - Fabricate and assemble structural assemblies in shop to greatest extent possible.
 - Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise.
 - Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected.
 - Shop painting: Paint structural steel with one coat of manufacturer's standard Water Based primer applied at a rate to provide a uniform dry film thickness of 2.5 mils unless Structural steel will be fire proofed.
 - At square or rectangular hollow Structural shape members provide a fitted end cap at ends
- C. Erection
 - Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the drawings shall conform to the AISC Code of Standard Practice.
 - Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
 - Schedule, if Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.
- D. Hot Dip galvanize after fabrication all structural steel items and connections permanently exposed to the outside, whether specified on the drawings or not. Such items include, but are not limited to:
 - Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
 - Roof Mechanical support steel.
 - Examine the architectural and structural drawings for other items required to be hot dipped galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company.
- E. Contractor shall coordinate structural steel fireproofing requirements. All interior structural steel, including steel joists, scheduled or indicated to receive spray applied fireproofing shall be delivered to the project site unprimed. Steel exposed to corrosive conditions after installation shall be primed with a protective coating which does not diminish the bond between the spray applied fireproofing, and the steel substrate. Any primer, and/or coating applied to structural steel shall be approved for use in the applicable U.L. Fire Resistance Assembly used on the project.

- F. Contractor to provide an allowance for (one) ton of structural steel to be furnished, Detailed, Fabricated, and Installed during the progress of the work as directed by the Structural Engineer in addition to all of the structural steel indicated on the drawings. If the structural steel is not used during the progress of the project, the owner shall receive a credit for the portion not used.

XII. STRUCTURAL STEEL CONNECTIONS

- A. Welded Connections
 - All welding shall conform to ANSI/AWS D1.1, latest edition.
 - Fillet welds with no size specified shall be 3/16" or minimum size required by AISC, whichever is larger.
- B. For connections not specifically addressed by these notes or Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

XIII. LIGHT GAUGE METAL STRUCTURAL MEMBERS

- The design of CFMF is shown on the contract documents. CFMF contractor shall provide as shown on the contract documents no exceptions.
 - All studs and runner tracks shall be formed from steel that corresponds to the minimum requirements of AISI Standards, Latest Edition.
 - Physical properties and allowable load capacities of members shall be developed in accordance with the latest edition of the AISI "Specification for the Design of Cold-Formed Steel Structural Members."
 - Cutting of light gage steel members shall be performed with a saw. Torch cutting shall not be permitted.
 - Holes that are field cut through light gage members shall be made with the limitations of the product design and shall be reinforced as recommended by the manufacturer.

- E. Horizontal bracing for walls shall be provided at 4 ft o.c. maximum in accordance with the typical details.
- F. All power actuated fasteners shall be 0.157" diameter X-U fasteners as manufactured by Hilli with an embedment equal to 1 1/4 inches unless noted otherwise.
- G. Place a continuous runner at the bottom and top of all stud walls. Bottom runner shall be connected to support member per schedule.
- H. Product Identification
 - All material 16 Ga or less shall meet the requirements of ASTM A653 with minimum yield strength of 33 KSI unless noted otherwise, 14 Ga material shall have a minimum yield stress of 50 ksi.
 - All galvanized material to meet the requirements of ASTM with a minimum G60 coating.
 - Fastening of components shall be with #10 or #12 self tapping screws as noted in typical details.
 - Installation of studs shall be as per Metal Lath/Steel Framing Association - Light Weight Steel Framing System Manual, ASTM C955, ASTM C1007 and Project Specifications.
 - Minimum 12" unpunched steel required at both ends of members.
 - Thicknesses
 - 18 GA = 0.0451"
 - 16 GA = 0.0566"
 - 14 GA = 0.0713"
 - 12 GA = 0.1017"

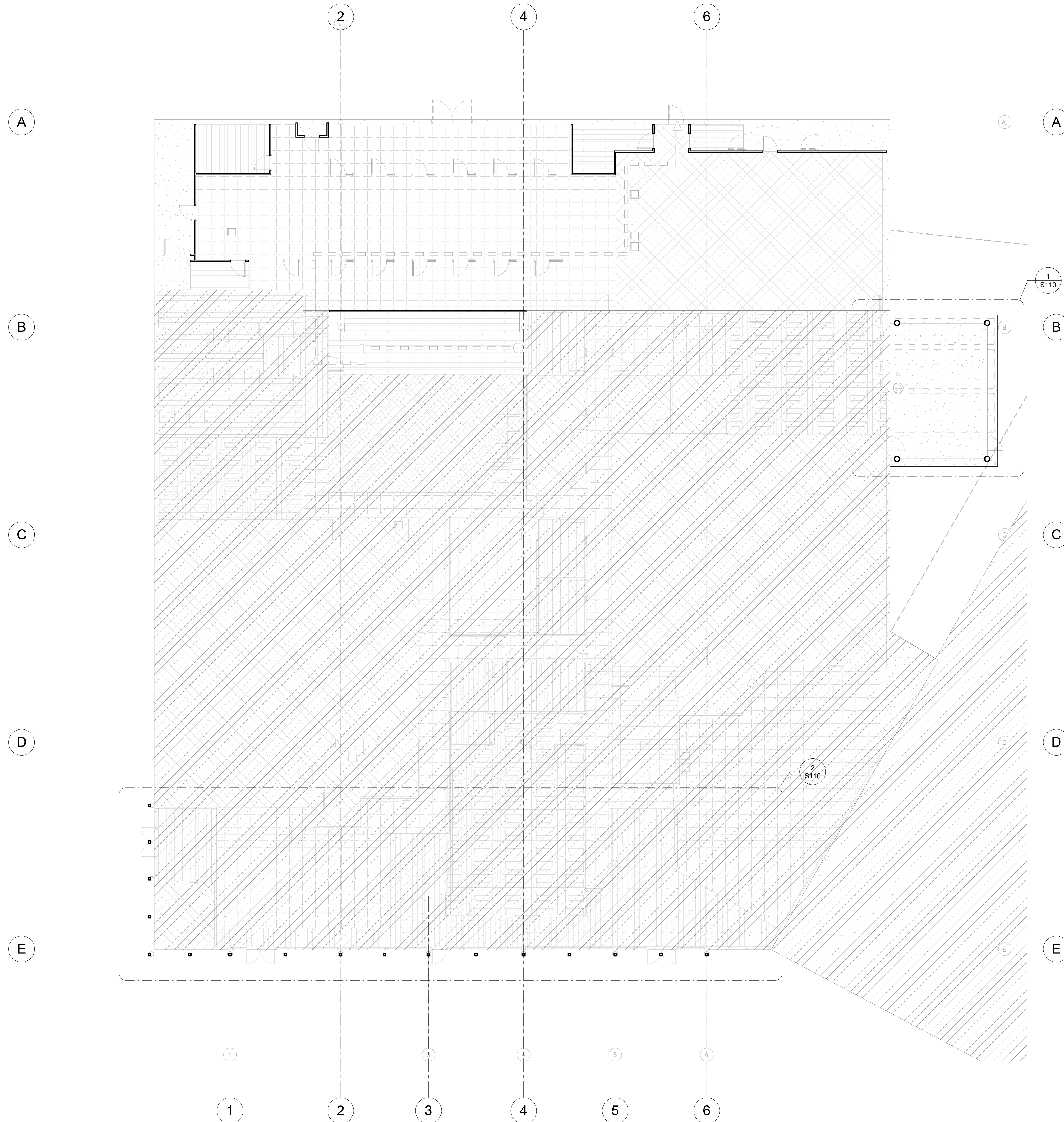
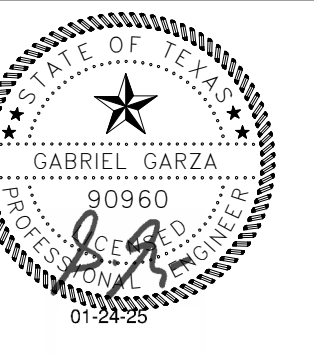
- I. Stud
 - Use three studs at the corner of all exterior walls.
 - Ends of studs must seat firmly in runner track which must have full bearing on structure.
 - Attach each runner track leg to each stud flange with one #10-16 screw or #12 screw.
 - No notching or coping of stud is allowed.
 - All light gauge steel wall studs shall be full height or span to supports with no splices in stud unless detailed otherwise.
 - All horizontal bracing shall be installed at the time the wall is erected at.
 - All multiple studs attach together with 2-#12 TEK screws @ 12" o.c. vertically; no exceptions.
- J. Attachments
 - Use #10-16 screws for steel connections except as noted as plans and typical details.
 - A 3/4" (minimum) clearance must be maintained from all edges of steel members in locating screws.
 - For attachment of single layer 5/8" sheathing to steel studs, use 1 1/4" long #6-18 bugle head screws, 6" o.c. at panel edges and in the field typical. At the back side of parapets use 1 1/4", #6 screws @ 4" o.c. edges and at field.
- K. System Components
 - Slide clips are used for curtain wall conditions to accommodate vertical movement of structure. Slide clips are attached with powder actuated fasteners (see details), and shall conform to the Steel Network, Inc. (888)-474-4876
- L. Headers
 - Full height studs of corresponding size and appropriate gauge are required immediately adjacent to the jamb studs at each side of openings, see typical details.
- M. CFMF Contractor shall provide an allowance for one ton of additional Cold-Formed Metal Framing material to be utilized on the project as directed by the Engineer. If material is not utilized on the project a credit shall be returned to the owner.

REVISIONS		
DATE	DESCRIPTION	MARK

WORKFORCE SOLUTIONS
 PHASE III RENOVATION
 4981 AYERS STREET
 CORPUS CHRISTI, TX 78415
STRUCTURAL GENERAL NOTES
 THESE NOTES SHALL BE USED IN CONNECTION WITH THE DRAWINGS AND SPECIFICATIONS FOR THE PROJECT AND SHALL BE USED TO THE EXCLUSION OF ALL OTHER GENERAL NOTES, CONDITIONS OF CONTRACT, SPECIFICATIONS, AND ALL APPLICABLE CODES AND STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF ALL WORKMANSHIP AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

JOB NO.	202415
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	Author
CKD. BY:	Checker

SHEET NUMBER
S001



- PLAN NOTES:**
1. THE CONTRACTOR SHALL FIELD VERIFY AND/OR DETERMINE ALL EXISTING DIMENSIONS AND CONDITIONS SHOWN ON THE PLAN AND DETAILS PRIOR TO BEGINNING CONSTRUCTION AND SUBMITTING SHOP DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR SPECIAL CONDITIONS FOR WHICH DETAILS FOR NEW CONSTRUCTION HAVE NOT BEEN PROVIDED PRIOR TO PROCEEDING WITH THE WORK. NO EXCEPTIONS.
 2. BASED UPON ACTUAL FIELD CONDITIONS ENCOUNTERED AT THE JOB SITE, ADDITIONAL NEW FRAMING OR MODIFICATIONS TO EITHER THE NEW OR EXISTING FRAMING SHOWN MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION REQUIRED BY THE SUB CONTRACTORS AND MATERIAL SUPPLIERS BASED UPON FIELD MEASUREMENTS AND DETERMINATION OF EXISTING CONDITIONS AT THE JOB SITE. THIS INFORMATION SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW TO THE ARCHITECT AND ENGINEER, NO EXCEPTIONS.
 3. NOTATION THUS: F.V. INDICATES DIMENSION TO BE FIELD VERIFIED.

REVISIONS		
MARK	DESCRIPTION	DATE

**WORKFORCE SOLUTIONS
 PHASE III RENOVATION**
 4981 AYERS STREET
 CORPUS CHRISTI, TX 78415

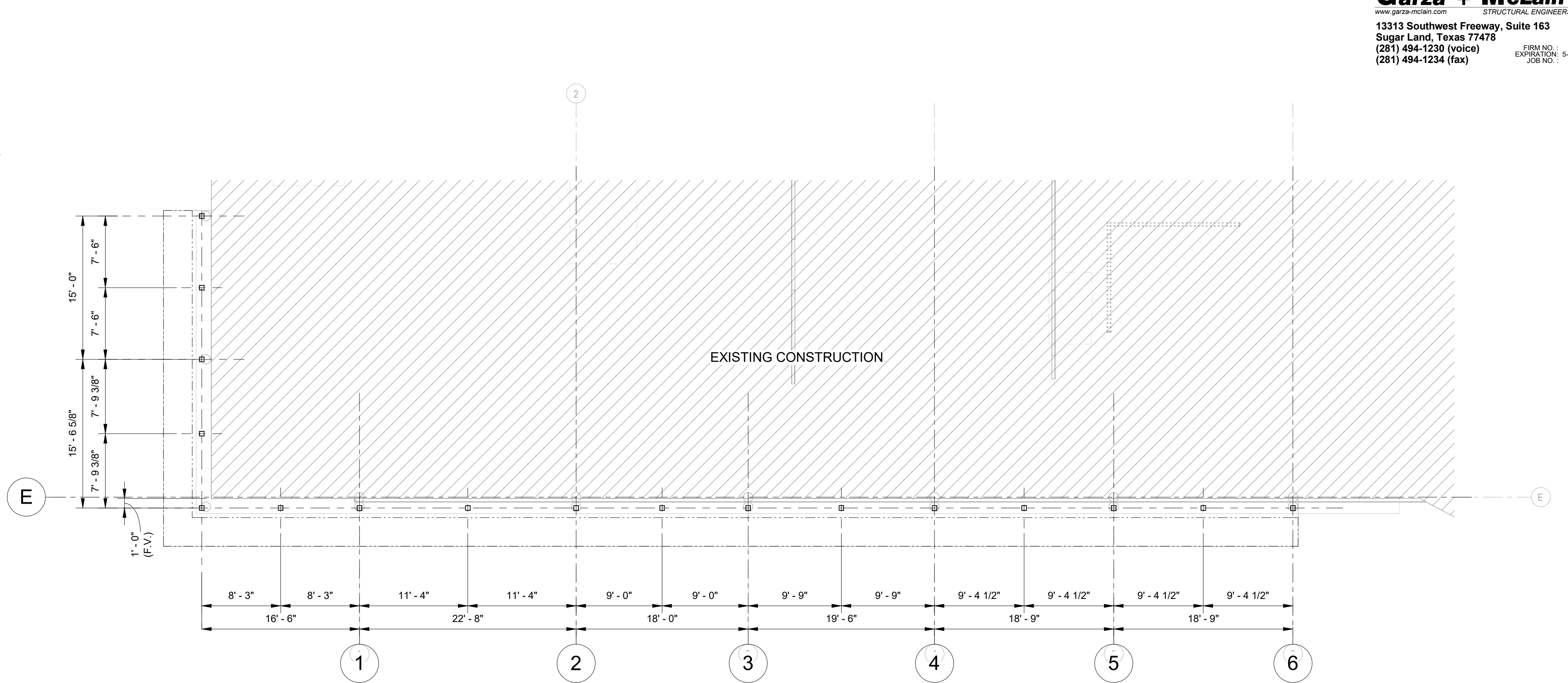
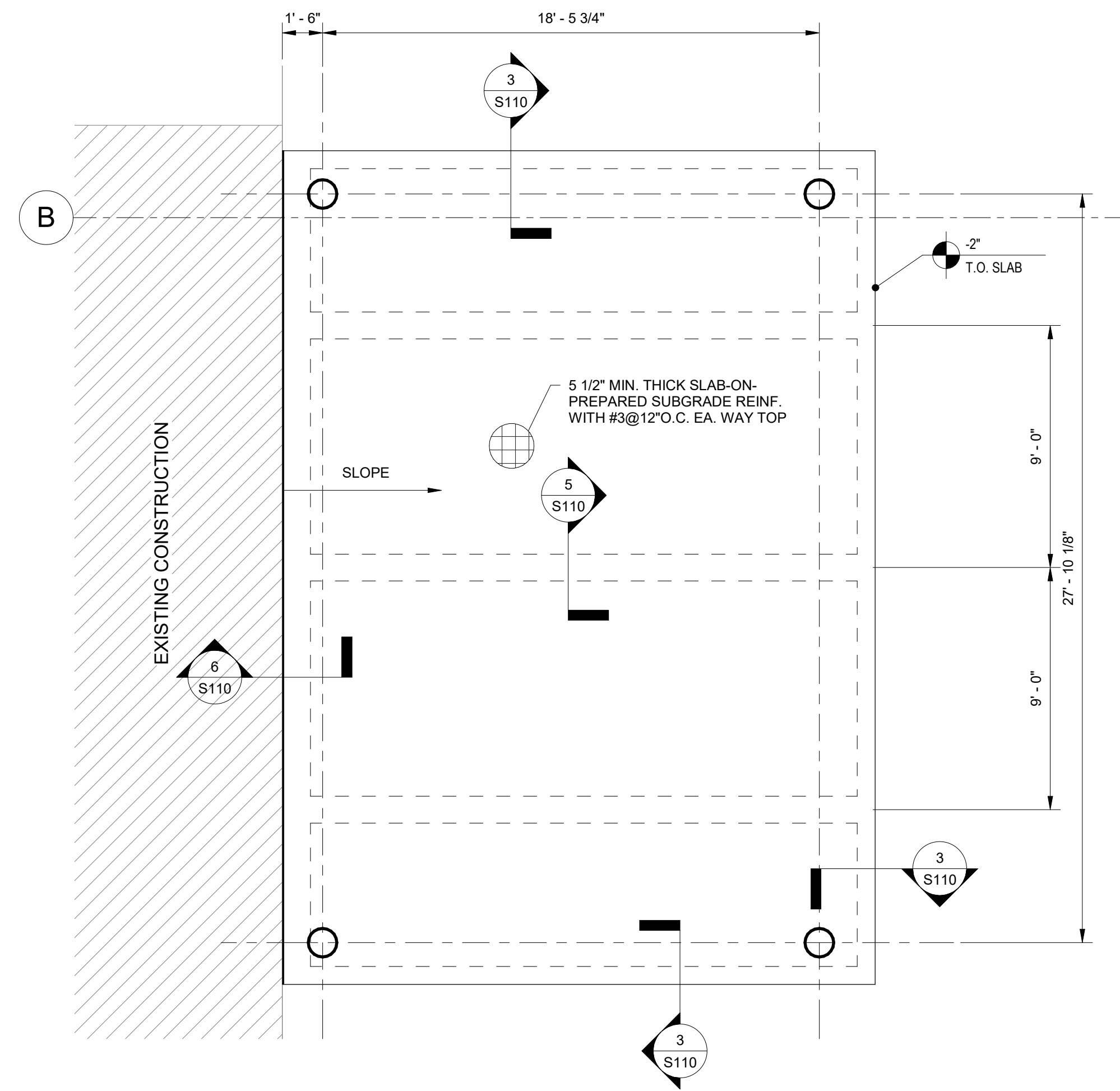
OVERALL FOUNDATION PLAN

THIS DRAWING IS THE PROPERTY OF GARZA + MCLAIN, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF GARZA + MCLAIN, INC.

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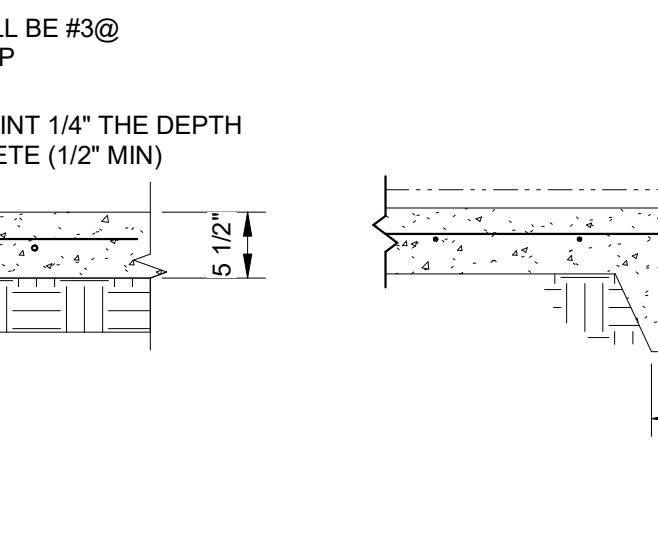
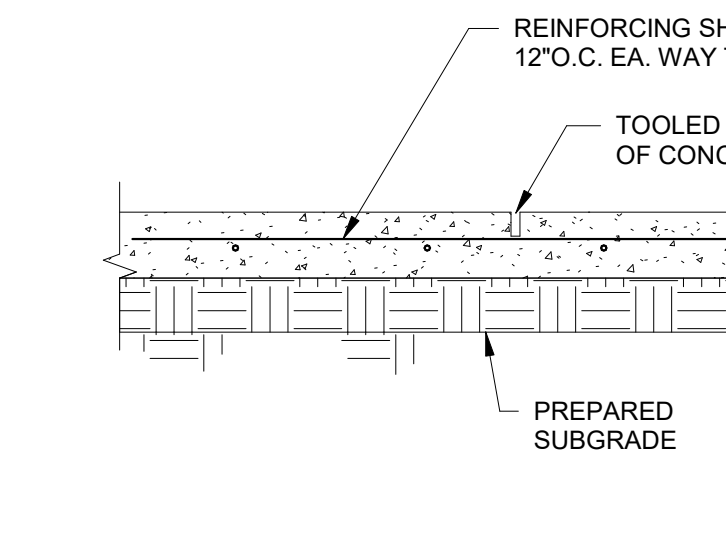
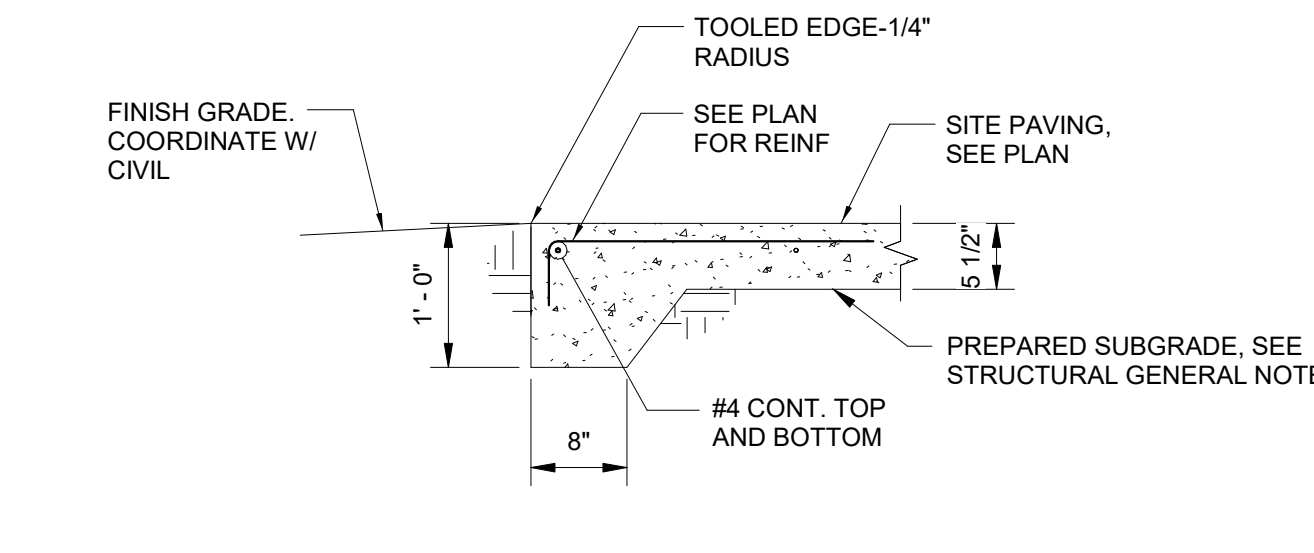


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 3. NOTATION THUS: F.V. INDICATES DIMENSION TO BE FIELD VERIFIED.
 4. SUBGRADE PREPARATION:
 A. THE SITE SHOULD BE STRIPPED TO A SUITABLE DEPTH TO REMOVE ANY TOP SOIL AND MISCELLANEOUS FILL MATERIAL MINIMUM OF 3'-0" BEYOND LIMITS OF NEW SLAB 1'-6" IN DEPTH. THE EXPOSED SUBGRADE SURFACE THEN SHOULD BE PROOF-ROLLED. ALL SOFT OR LOOSE SOILS SHOULD BE REMOVED AND REPLACED WITH SELECT FILL MATERIALS COMPACTED AS NOTED IN THESE STRUCTURAL NOTES AND OR SOILS REPORT.
 B. THE NATURAL SUBGRADE SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF EIGHT (8) INCHES. THE SCARIFIED SOILS SHOULD THEN BE RECOMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D 698). THE MOISTURE CONTENT RANGE -1% TO +3% OF OPTIMUM MOISTURE. SEE SOILS REPORT FOR ADDITIONAL INFORMATION.
 C. STRUCTURAL SELECT FILL USED TO ELEVATE THE GRADE SHOULD CONSIST OF A CLEAN SANDY CLAY WITH LIQUID LIMIT LESS THAN 35 AND A PLASTICITY INDEX (P.I.) BETWEEN 10 AND 20.
 D. THE STRUCTURAL SELECT FILL MATERIAL SHOULD BE PLACED IN MAXIMUM OF EIGHT (8) INCH LOOSE LIFT AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PER ASTM D-698. THE MOISTURE CONTENT SHOULD BE WITHIN -1% TO +3% OF OPTIMUM MOISTURE.
 E. IN CUT AREAS, THE SOILS SHOULD BE EXCAVATED TO A GRADE AND THE SURFACE SOILS PROOF-ROLLED AND SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES AND RECOMPACTED TO THE PREVIOUSLY MENTIONED DENSITY TESTS AT THE TIME OF CONSTRUCTION.
 F. SITE DRAINAGE AWAY FROM THE SITE PAVING SHOULD BE WELL DEVELOPED SUCH THAT SURFACE WATER IS DIRECTED AWAY FROM THE FOUNDATION SOILS.

2 STORE FRONT CANOPY FOUNDATION PLAN ALTERNATE NO. 2
 1/8" = 1'-0"

1 SHADE SAIL PLAN ALTERNATE 03
 1/4" = 1'-0"

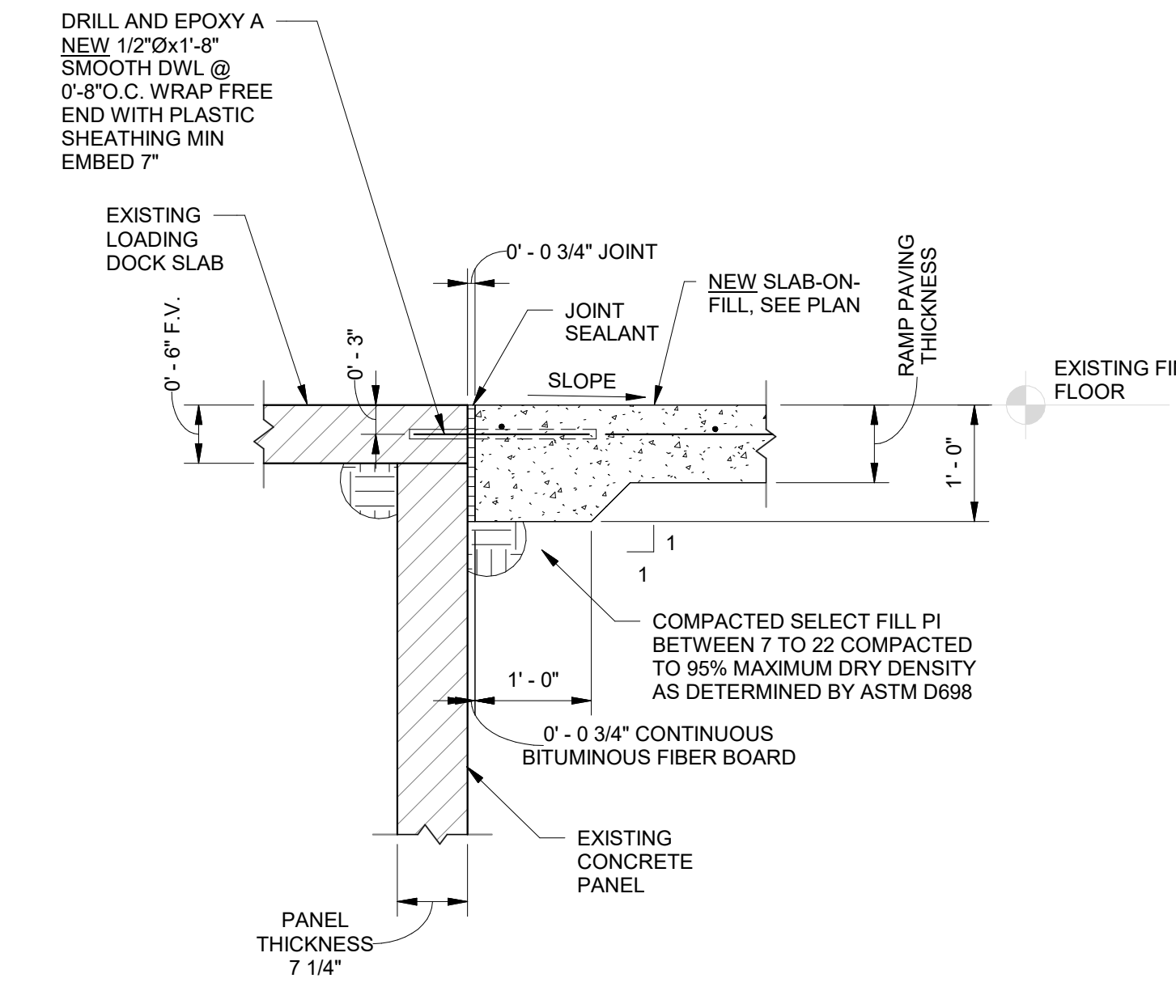
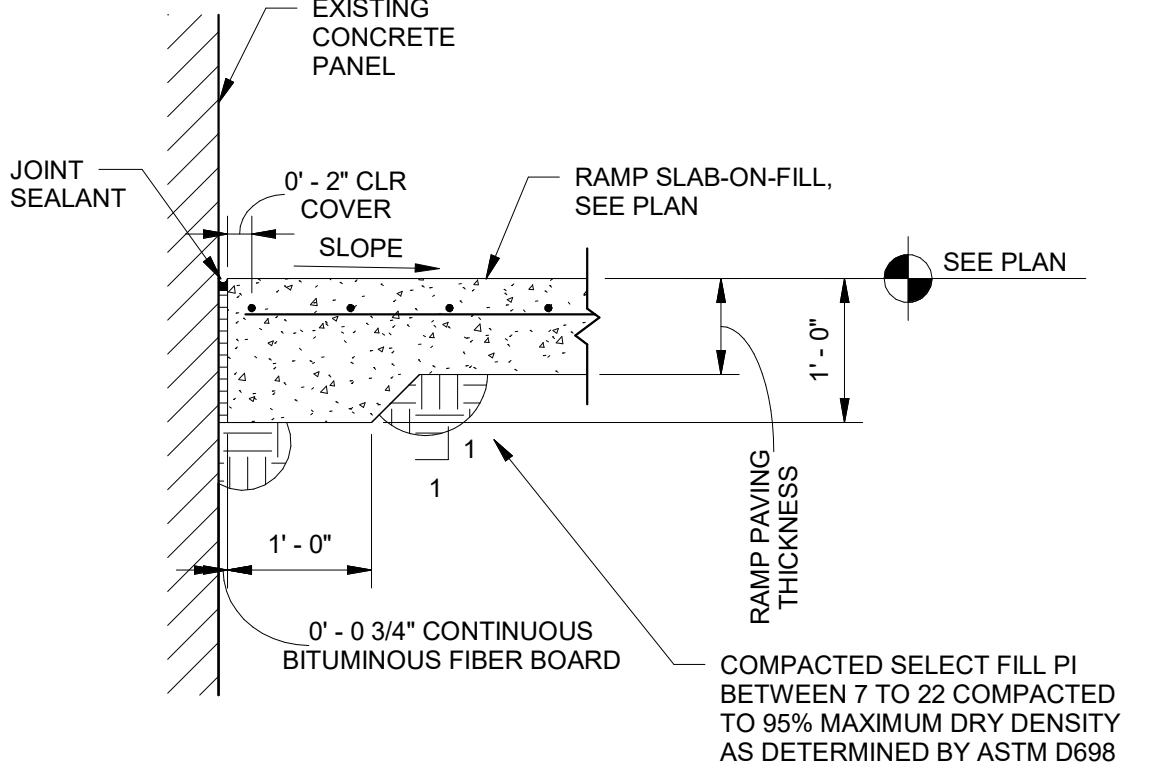


3 SITE PAVING EDGE DETAIL
 3/4" = 1'-0"

4 SITE PAVING CONTROL JT.
 3/4" = 1'-0"

5 DETAIL
 3/4" = 1'-0"

6 TYPICAL SLAB ALONG CONCRETE PANEL
 3/4" = 1'-0"

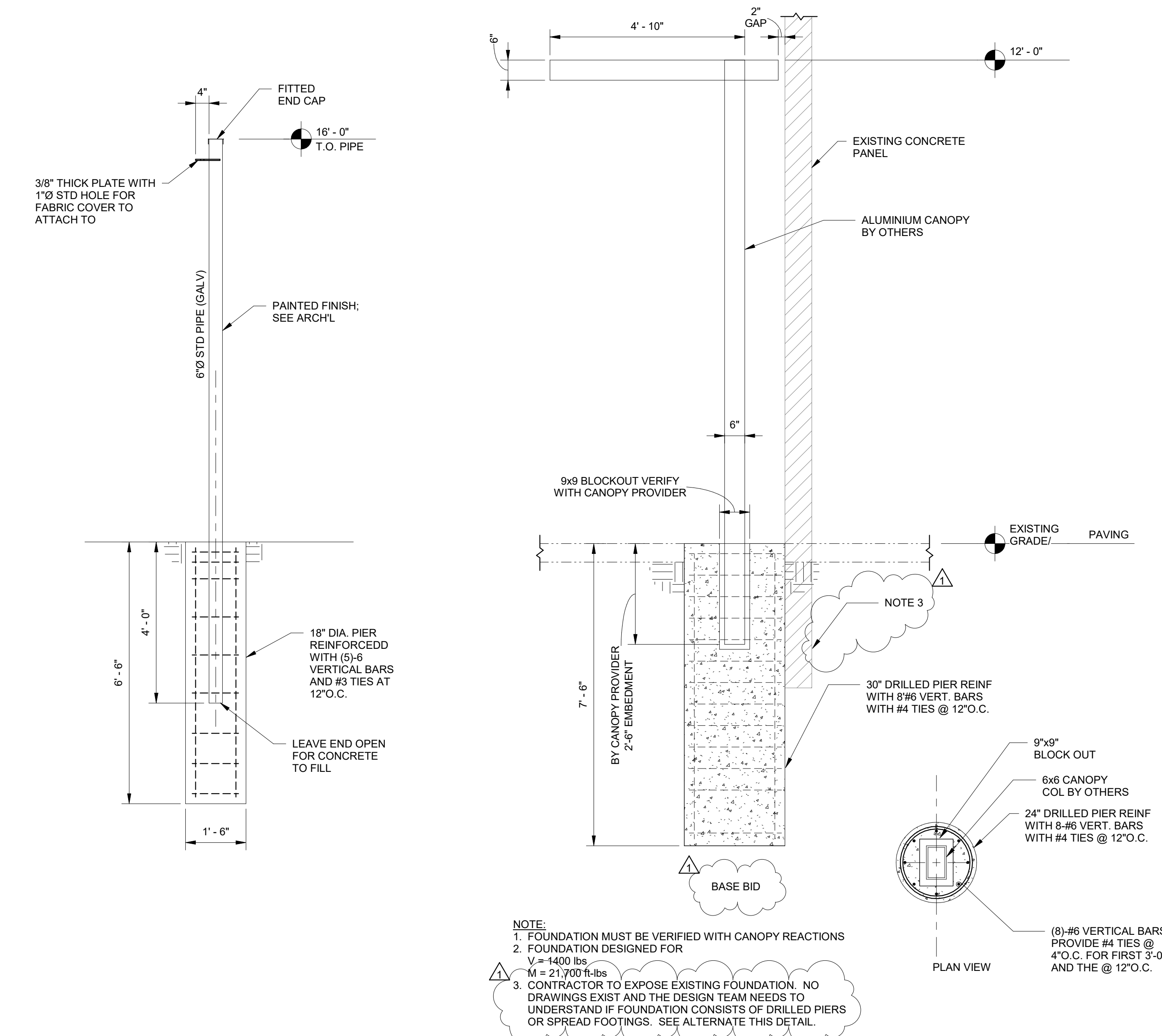
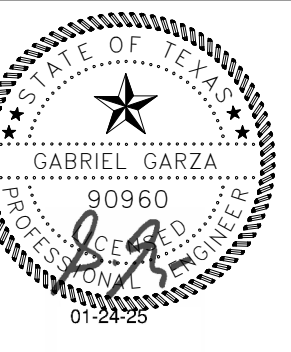


7 TYPICAL DETAIL AT DOOR
 3/4" = 1'-0"

WORKFORCE SOLUTIONS
PHASE III RENOVATION
 4981 AYERS STREET
 CORPUS CHRISTI, TX 78415
PLANS AND DETAILS

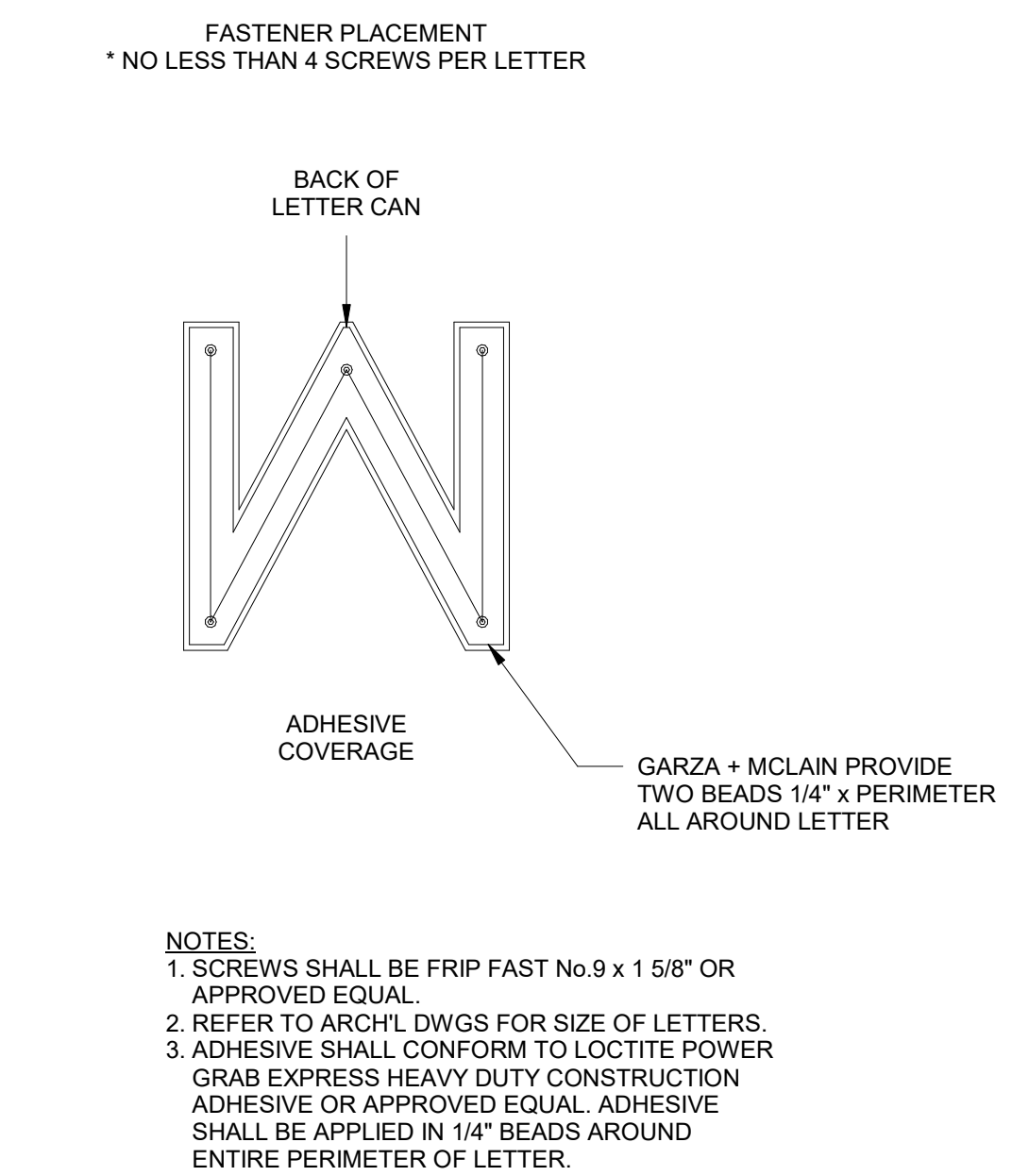
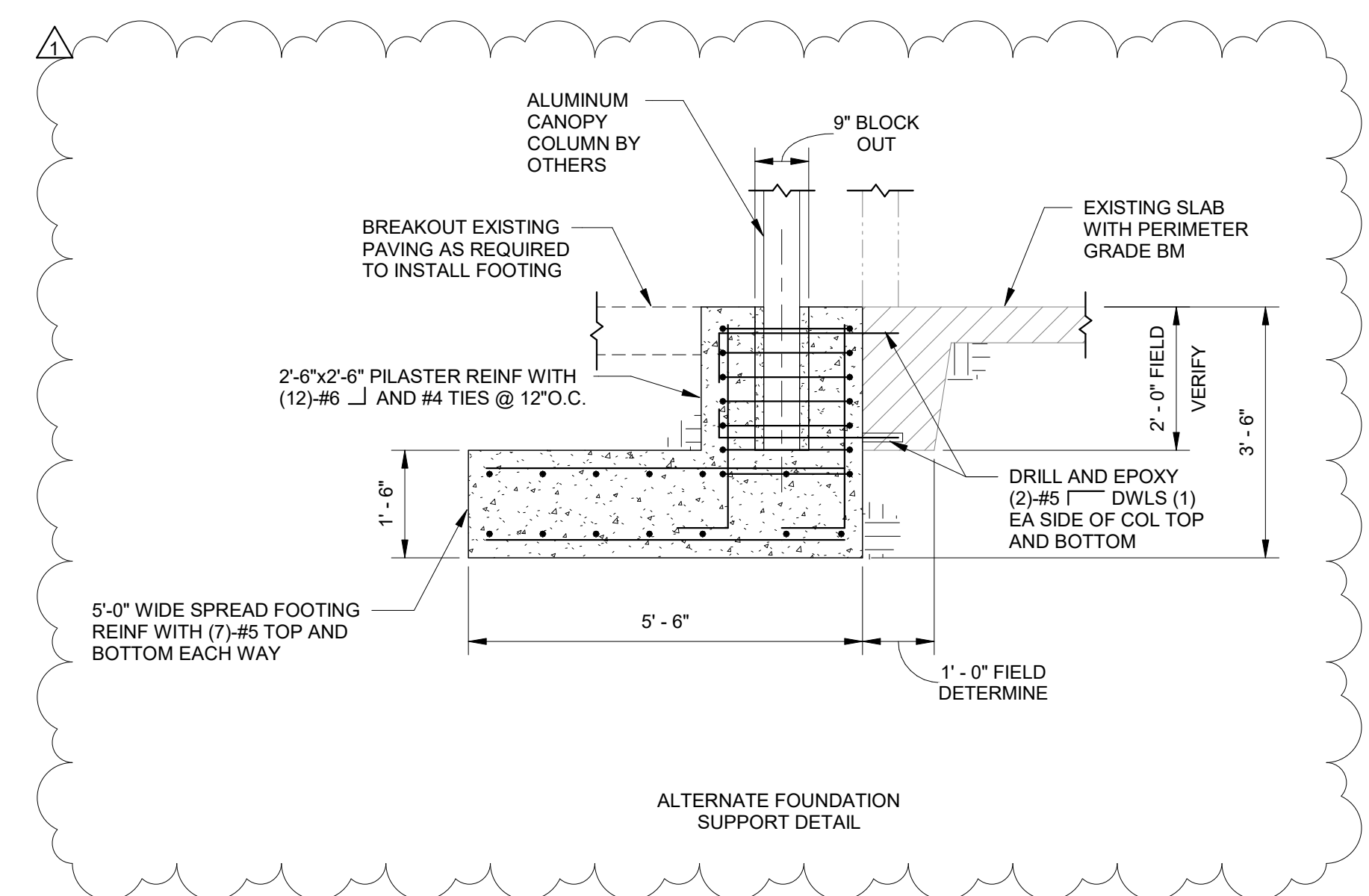
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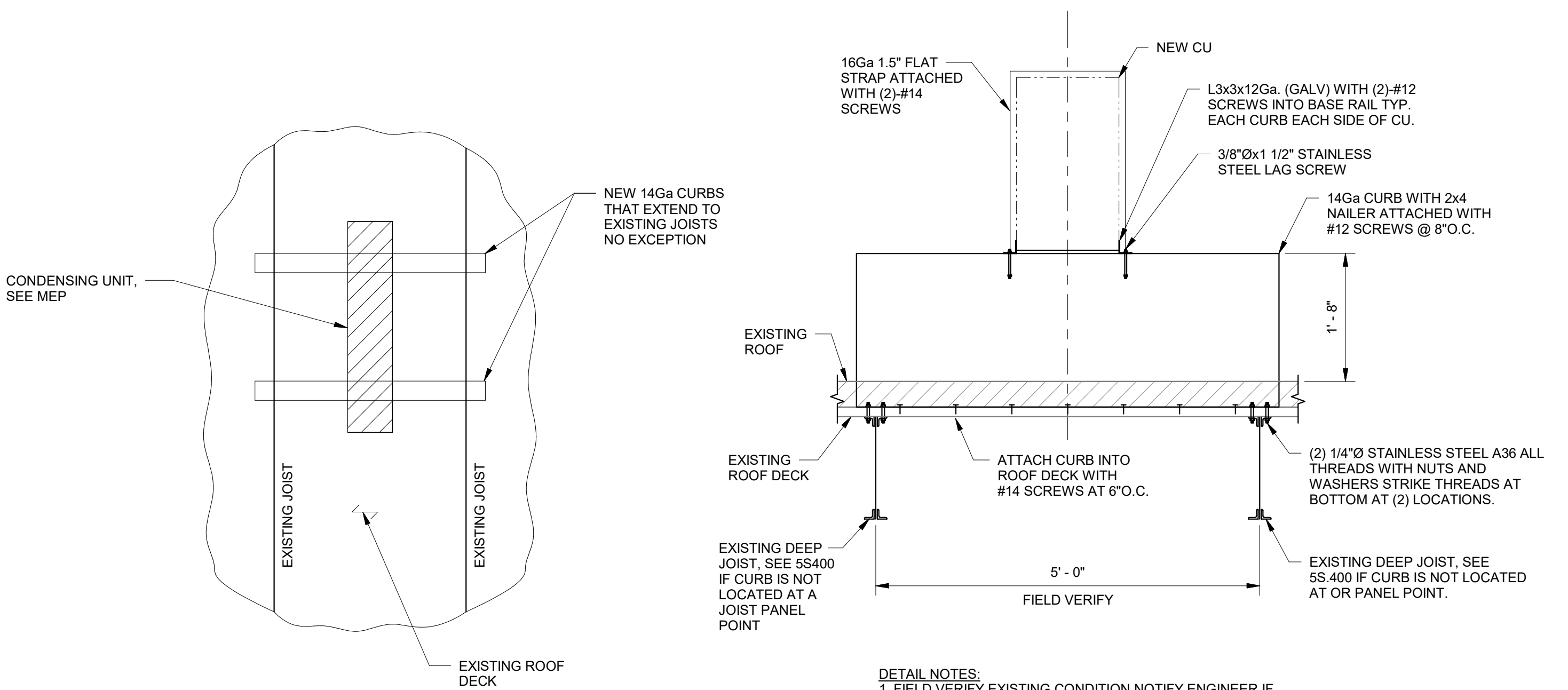


1 TYPICAL FABRIC CANOPY DETAIL
 1/2" = 1'-0"

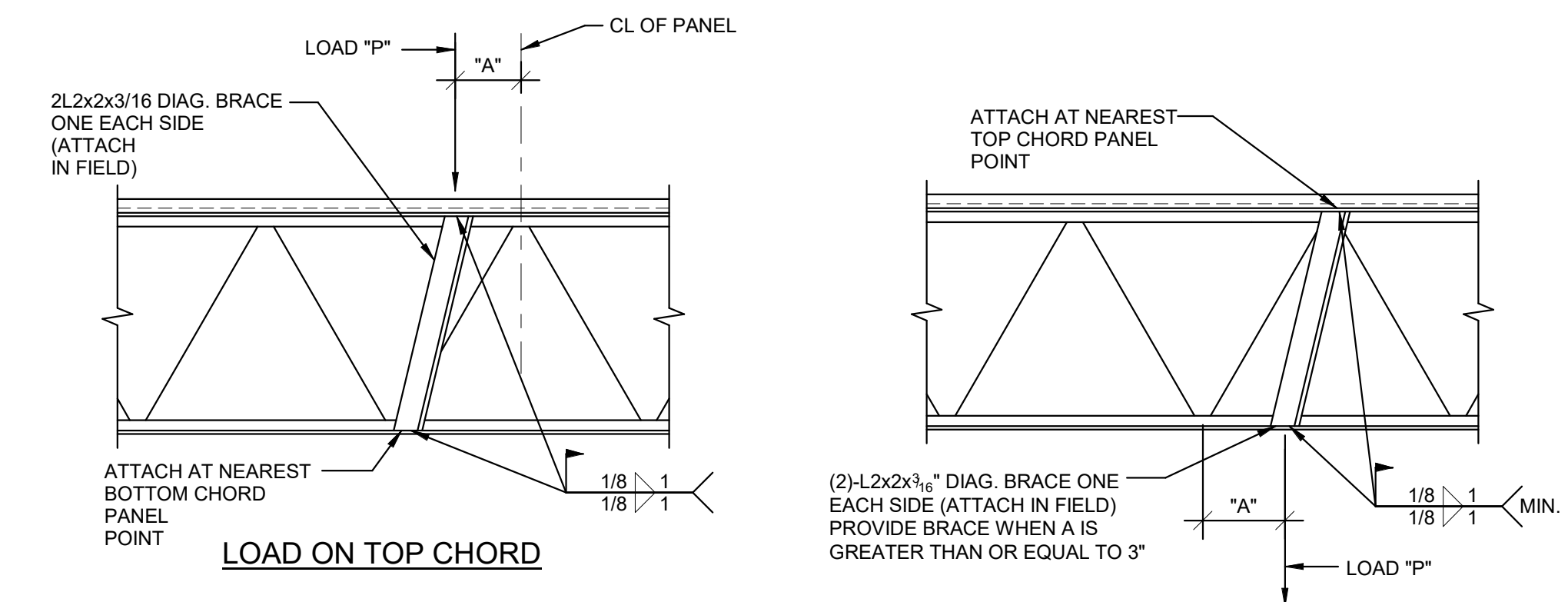
2 TYPICAL CANOPY POST FOUNDATION
 DETAIL ALTERNATE NO. 2
 1/2" = 1'-0"



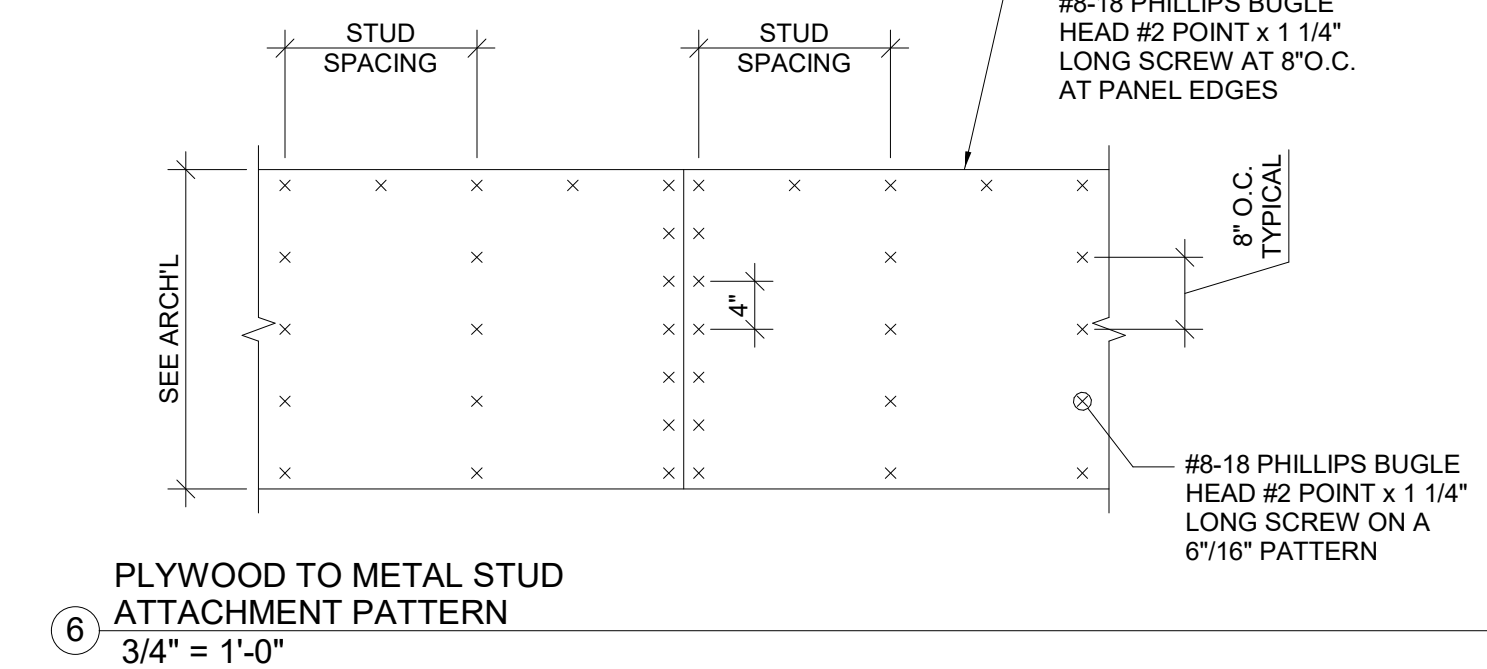
3 TYPICAL LETTER ATTACHMENT DETAIL
 1 1/2" = 1'-0"



4 TYPICAL CONDENSING UNIT
 ATTACHMENT DETAIL
 3/4" = 1'-0"



5 TYPICAL DETAIL STIFFENING OF STEEL
 JOIST FOR CONCENTRATE LOADS
 3/4" = 1'-0"



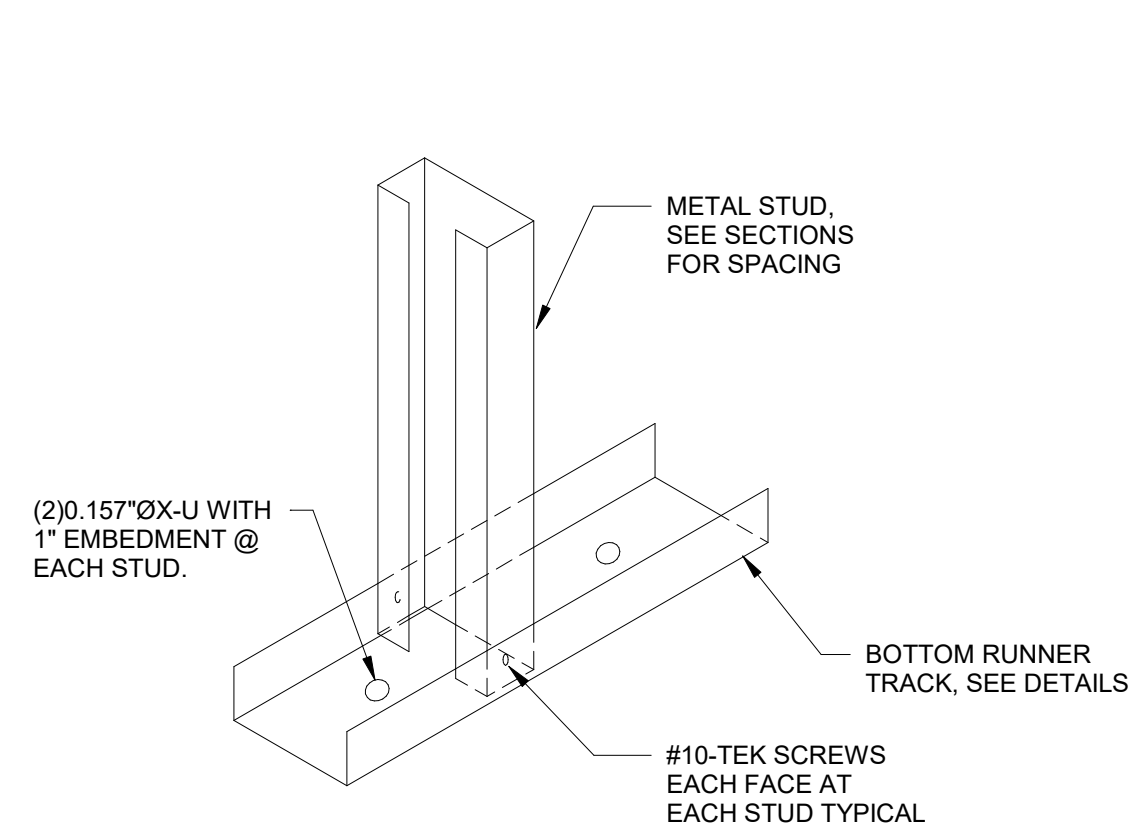
6 PLYWOOD TO METAL STUD
 ATTACHMENT PATTERN
 3/4" = 1'-0"

REVISIONS	
DATE	DESCRIPTION
02/11/25	ADDENDUM NO. 1

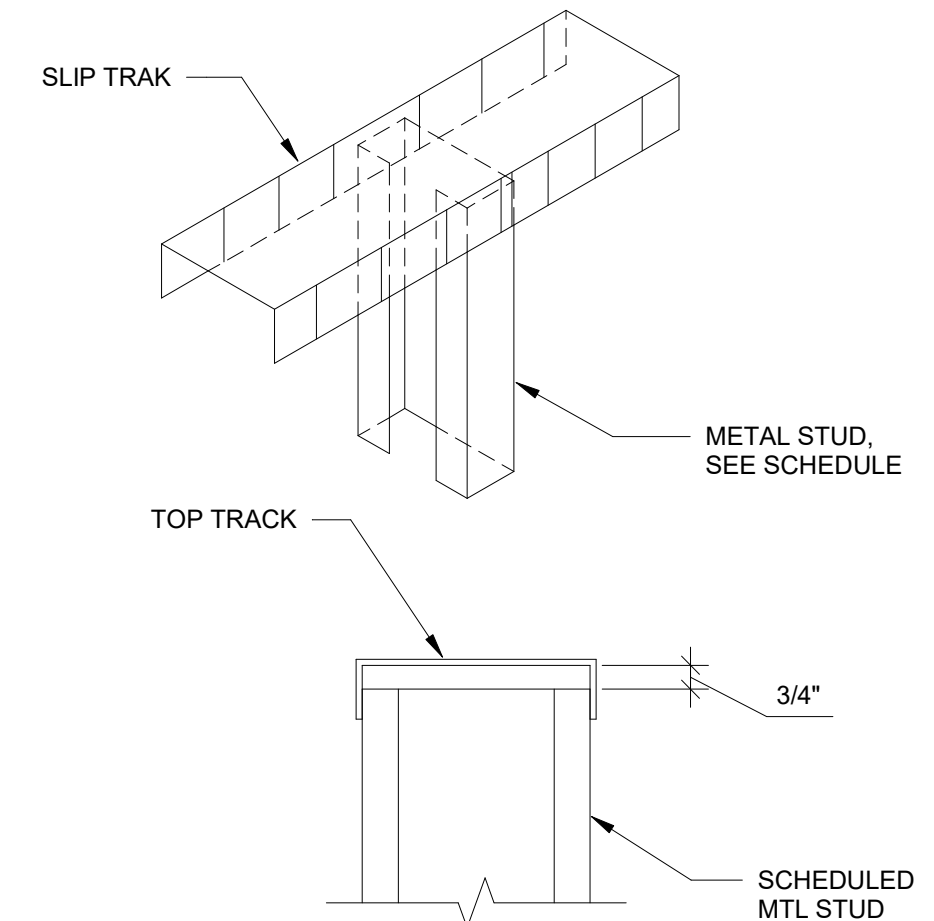
WORKFORCE SOLUTIONS
PHASE III RENOVATION
 4981 AYERS STREET
 CORPUS CHRISTI, TX 78415

JOB NO.	202415
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ISSUE DATE:	Issue Date
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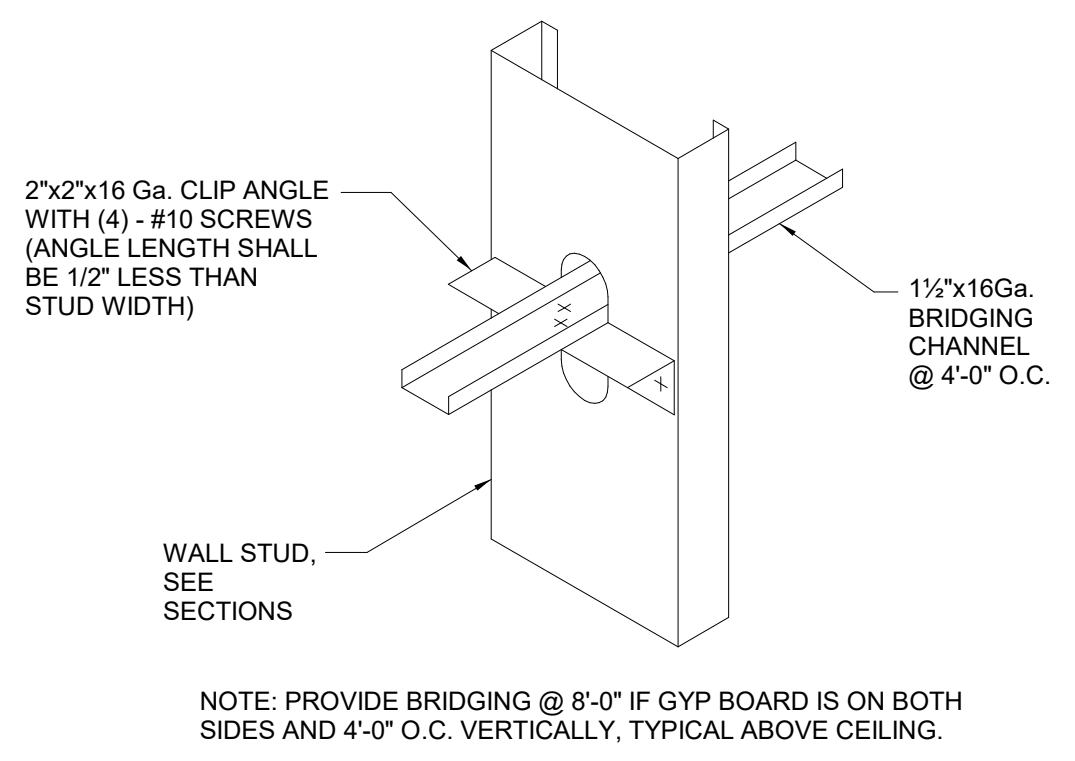
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S400



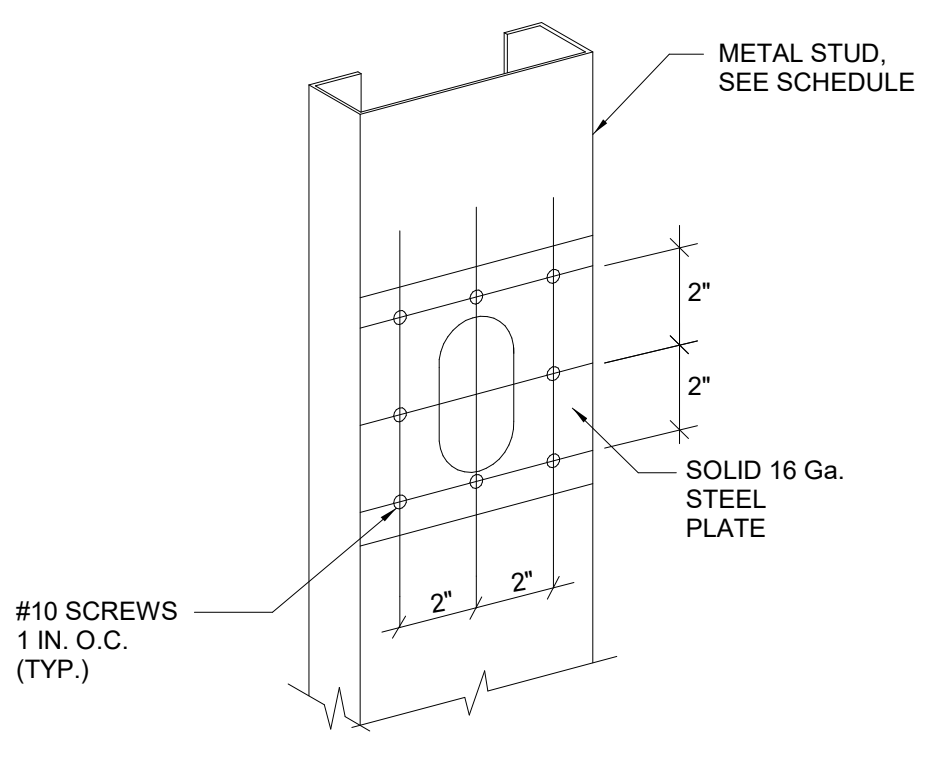
1 TYPICAL DETAIL STEEL STUD ATTACHMENT TO RUNNER TRACK CONCRETE FOUNDATION NTS



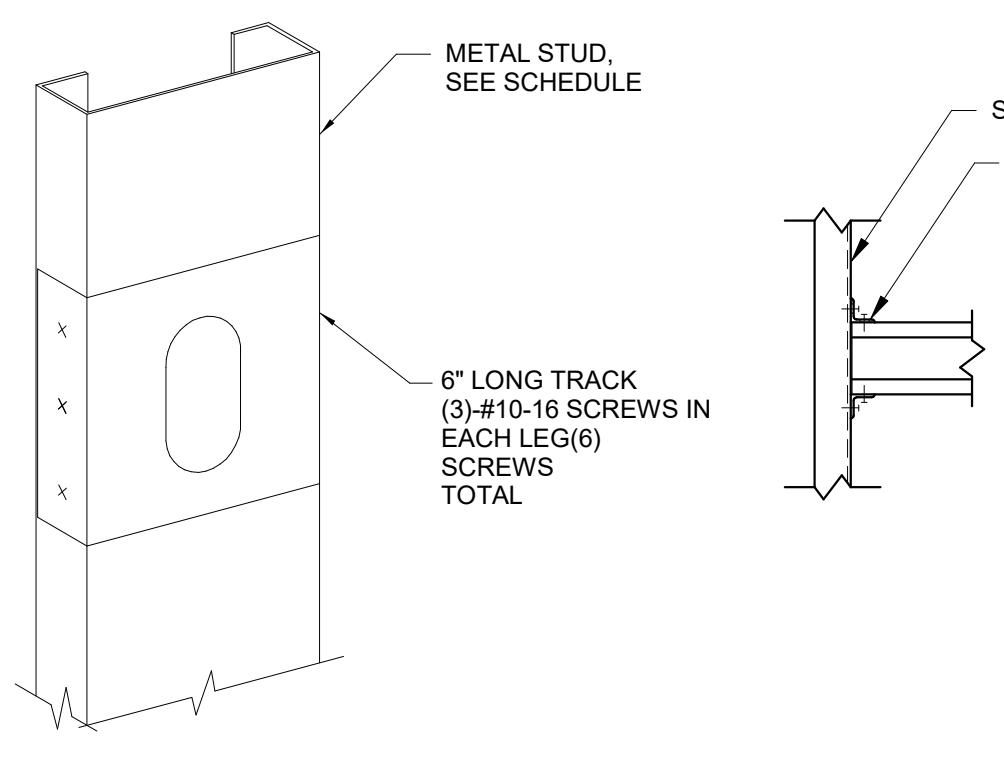
2 TYPICAL DETAIL AT DEFLECTION TRACK NTS



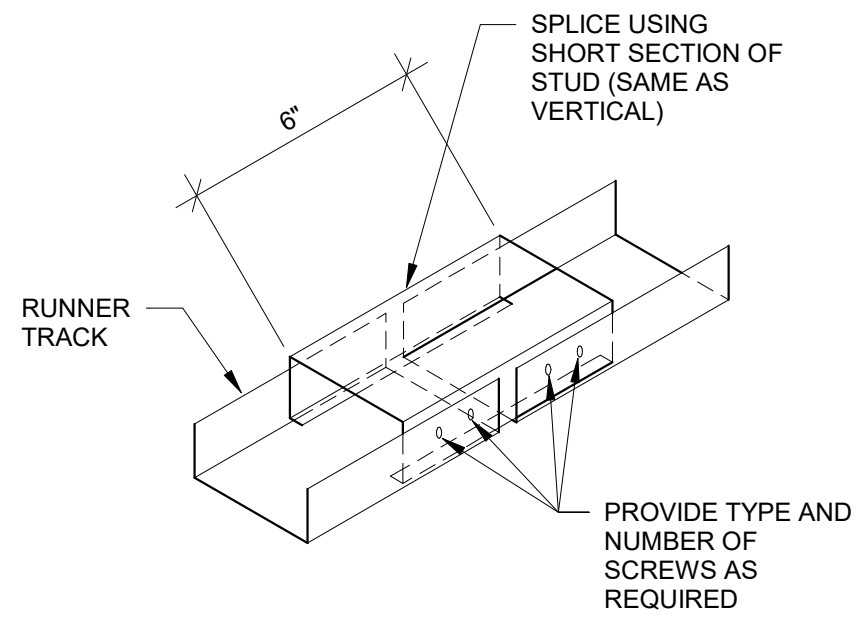
3 TYPICAL U-CHANNEL BRIDGING DETAIL 3/4" = 1'-0"



4 TYPICAL HOLE PATCH DETAIL 3/4" = 1'-0"



5 TYPICAL BOX HEADER CONNECTION DETAIL 3/4" = 1'-0"

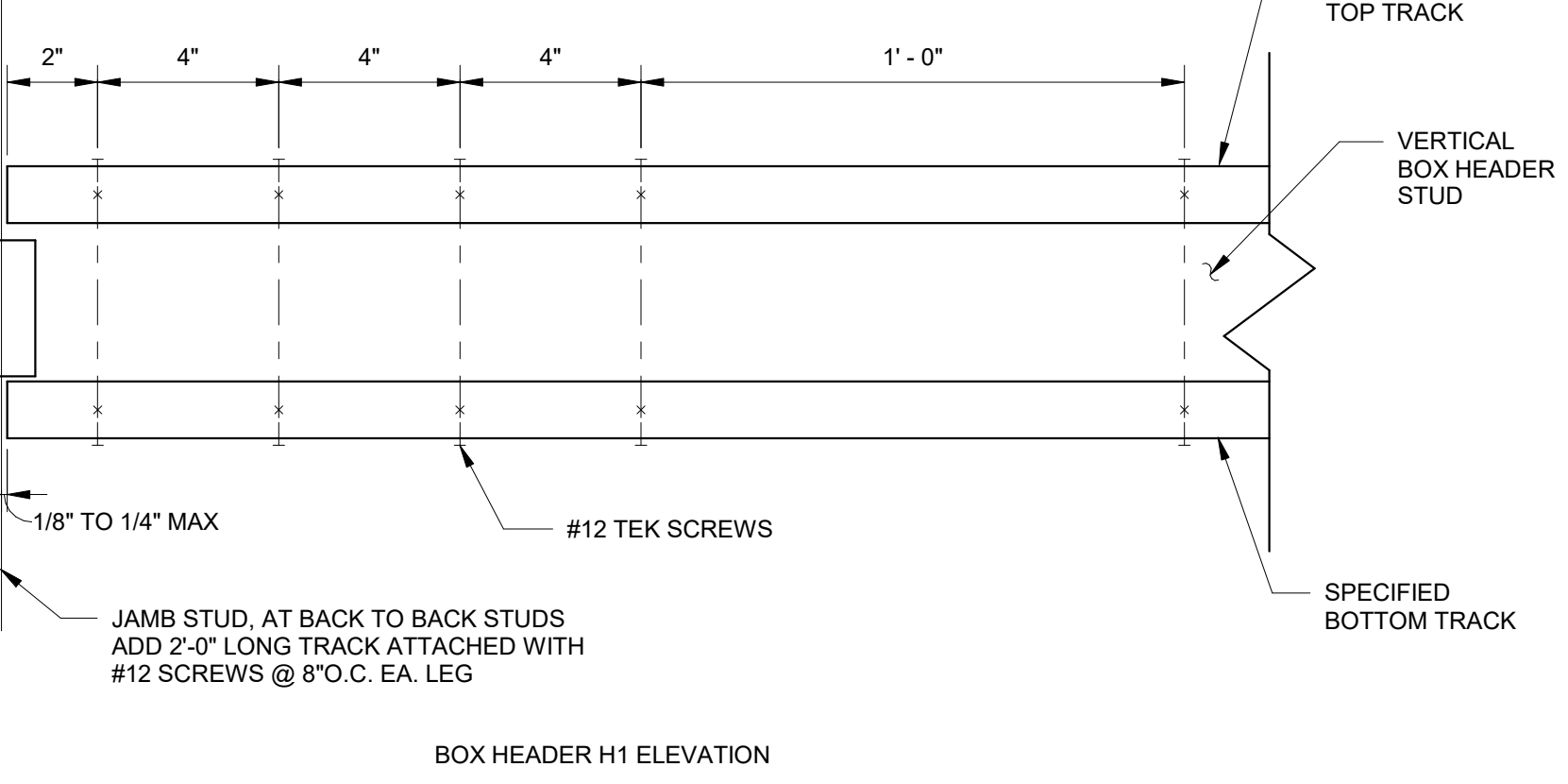
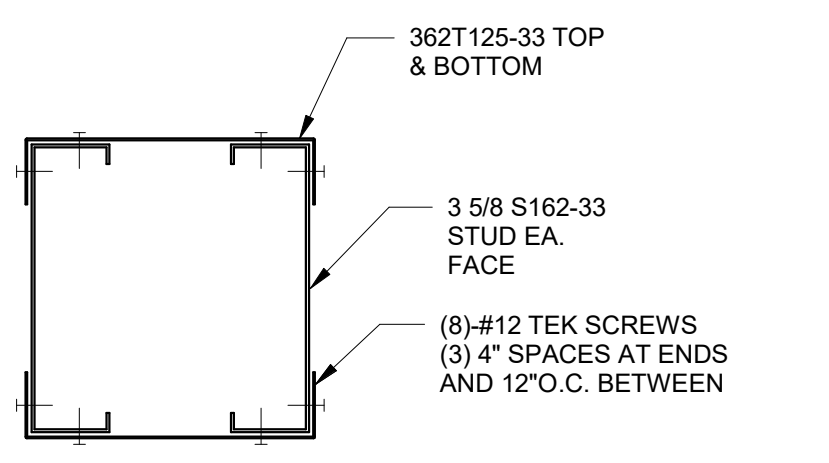


6 TYPICAL DETAIL RUNNER TRACK SPLICE (TOP) NTS

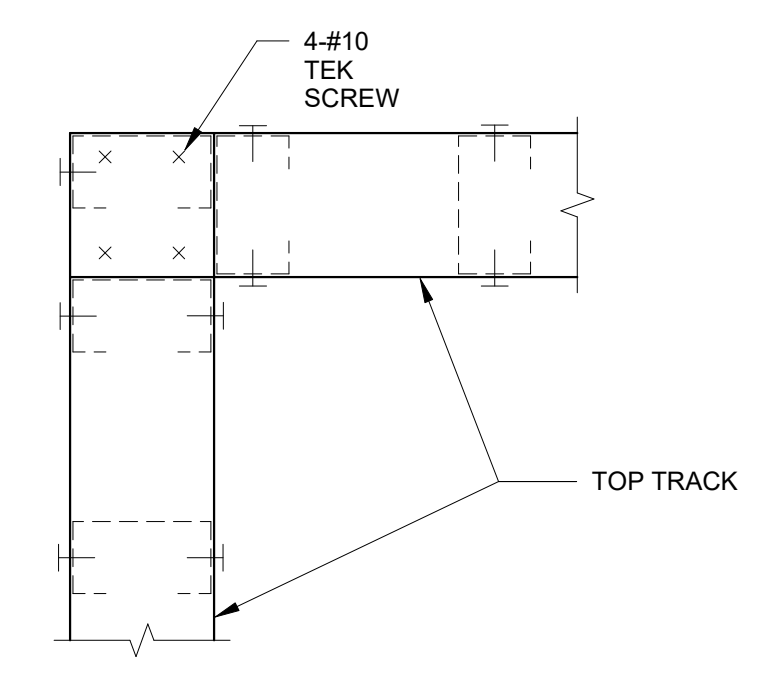
LOCATION	STUDS (TYPICAL)	SPACING
≥ 18'-0"	362S162@33	12" O.C.

- SCHEDULE NOTES:
1. WALL HEIGHT IS THE DISTANCE BETWEEN SUPPORTS.
 2. REFER TO STRUCTURAL GENERAL NOTES FOR REQUIREMENTS OF X-U FASTENERS
 3. PROVIDE SLIP TRAK AT TOP OF WALL AND 18Ga TRACK AT BOTTOM
 4. BOTTOM FASTENER AT EACH STUD UNLESS NOTED OTHERWISE.

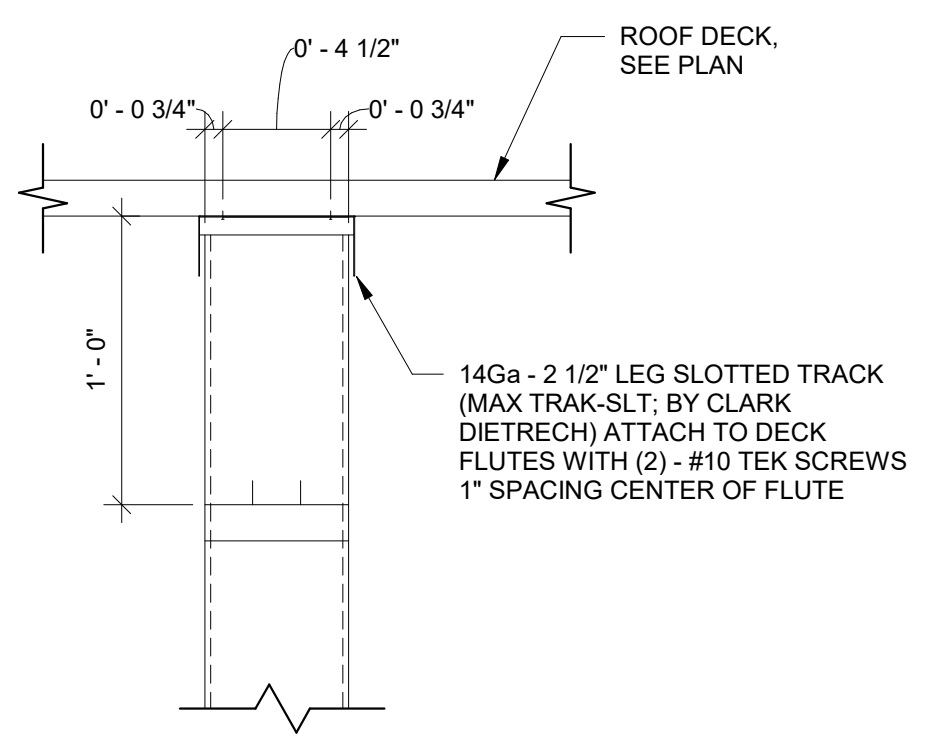
7 EXTERIOR NON-LOAD BEARING METAL STUD SCHEDULE NTS



11 S415-11 3" = 1'-0"

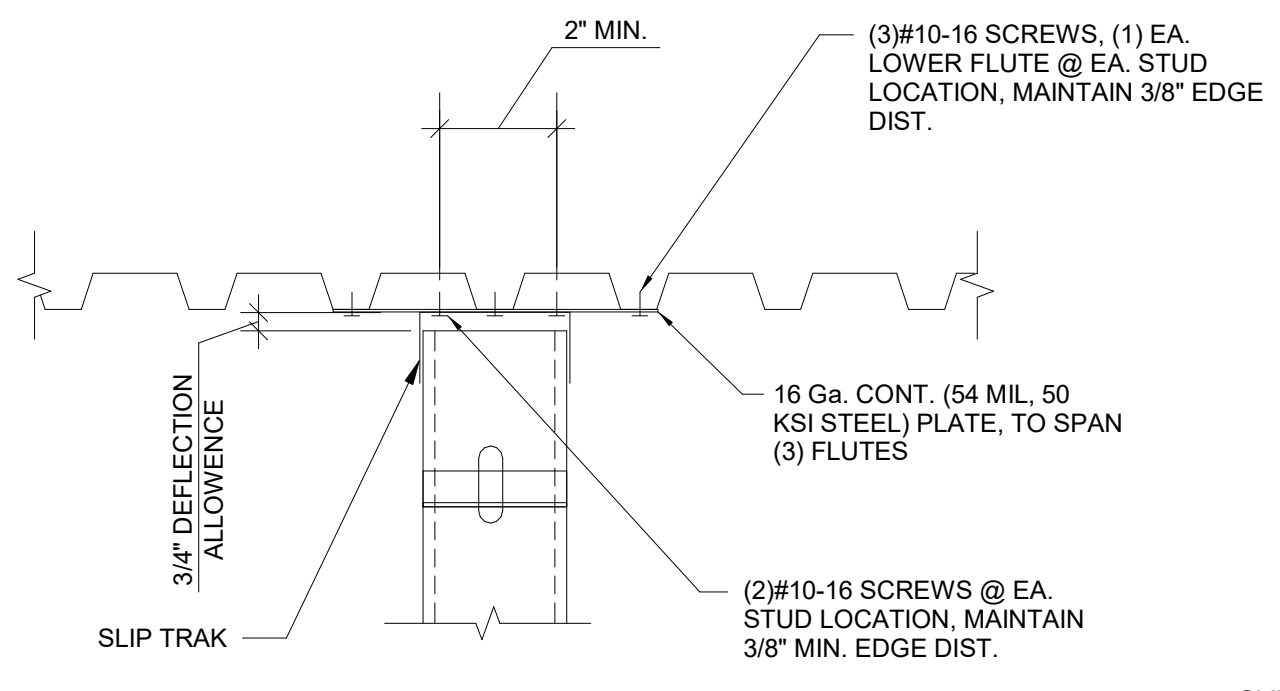


8 TYPICAL TO TRACK DETAIL AT CORNER NTS

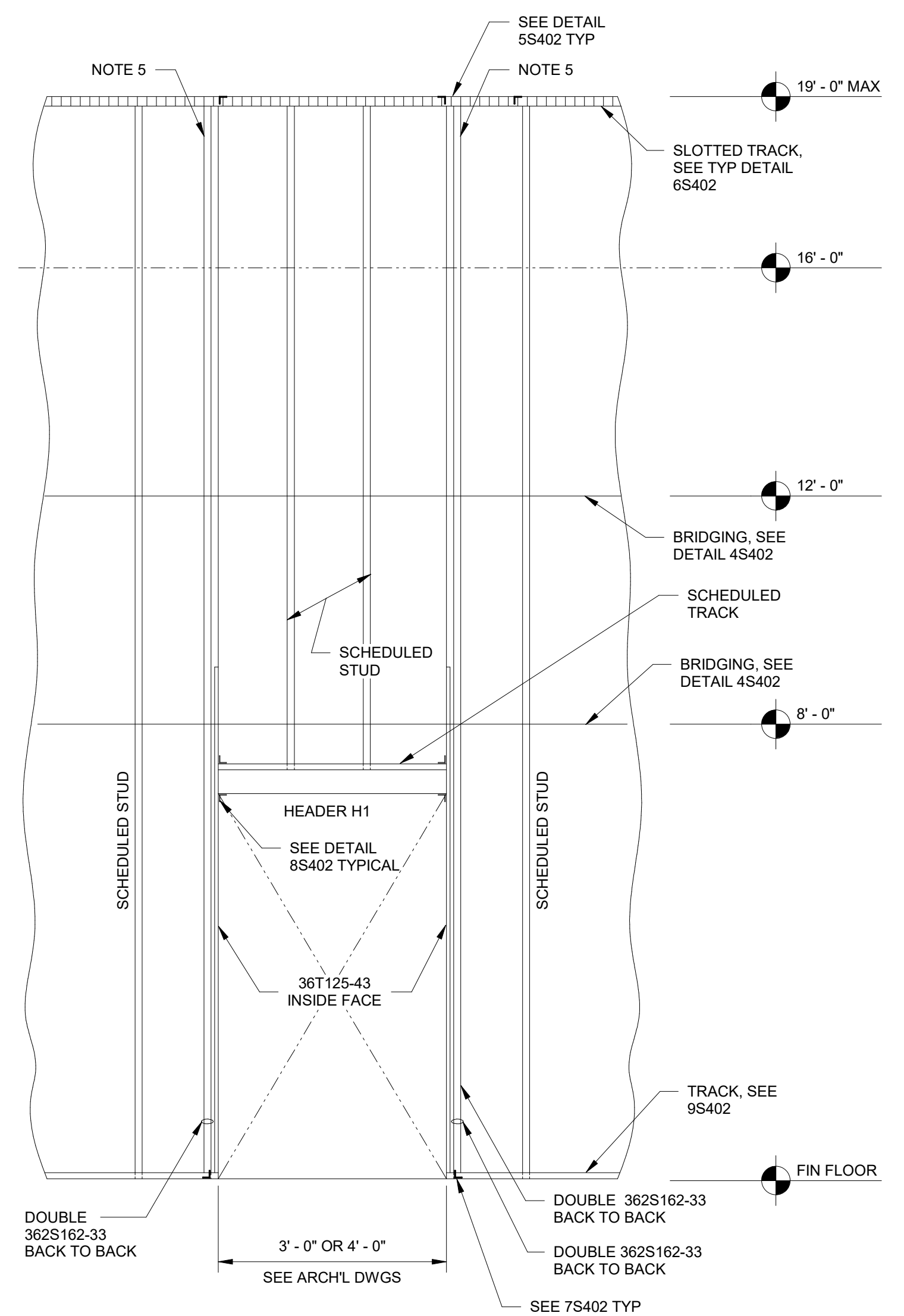
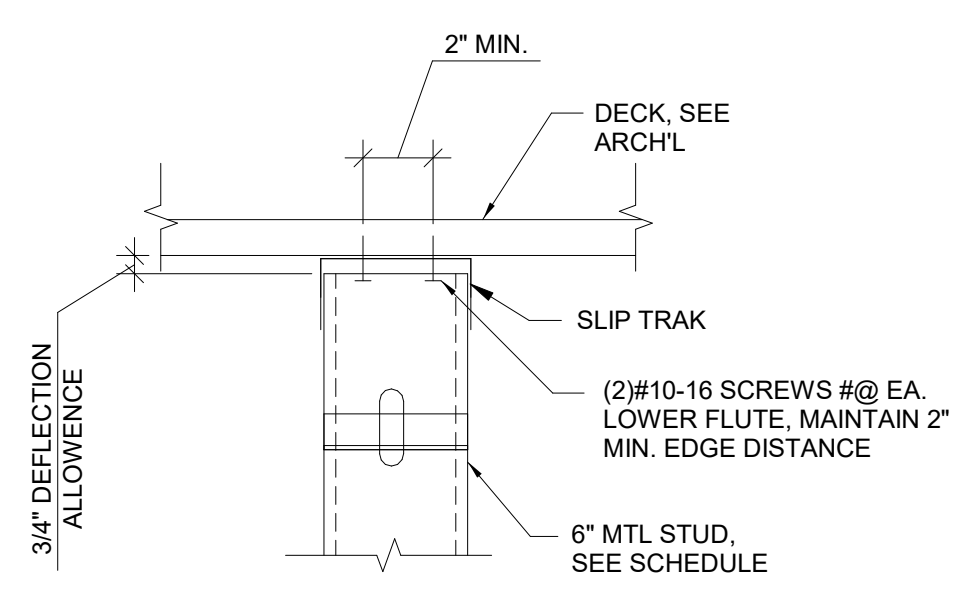
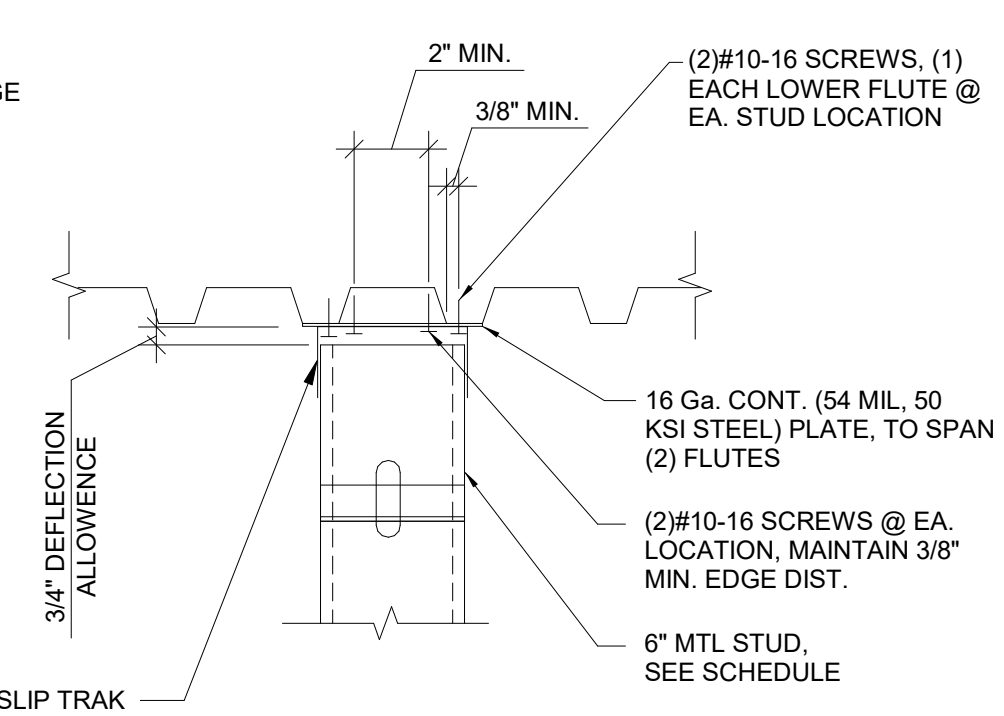


9 TYPICAL SLOTTED TRACK ATTACHMENT TO METAL DECK 1 1/2" = 1'-0"

NOTE: DO NOT ATTACH STUDS OR SHEATHING TO TOP TRACK, TYP.



10 TYPICAL TRACK CONNECTION @ METAL ROOF DECK DETAIL 1 1/2" = 1'-0"



- DETAIL NOTES:
1. REFER TO ARCH'L DWGS FOR EXACT DOOR LOCATION.
 2. ATTACH DOOR TO JAMBS AS REQ'D PER SPECIFICATIONS.
 3. SEE DETAIL 11S415 FOR HEADER.

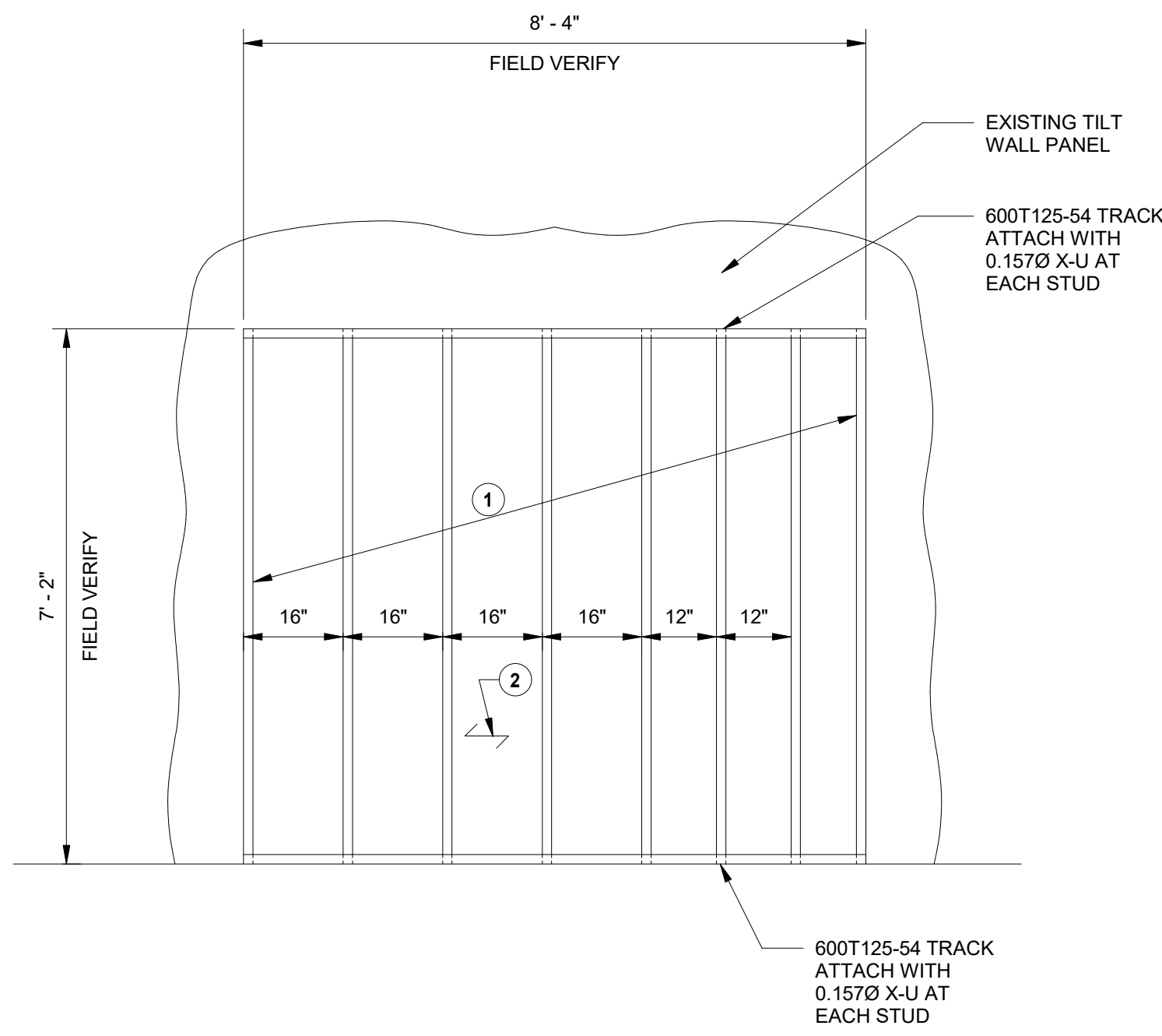
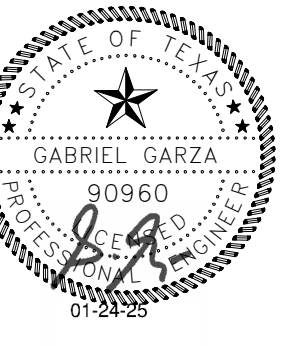
12 TYPICAL LEAD LINED DOOR OPENING DETAIL 1/2" = 1'-0"

REVISIONS	DATE	DESCRIPTION	MARK

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

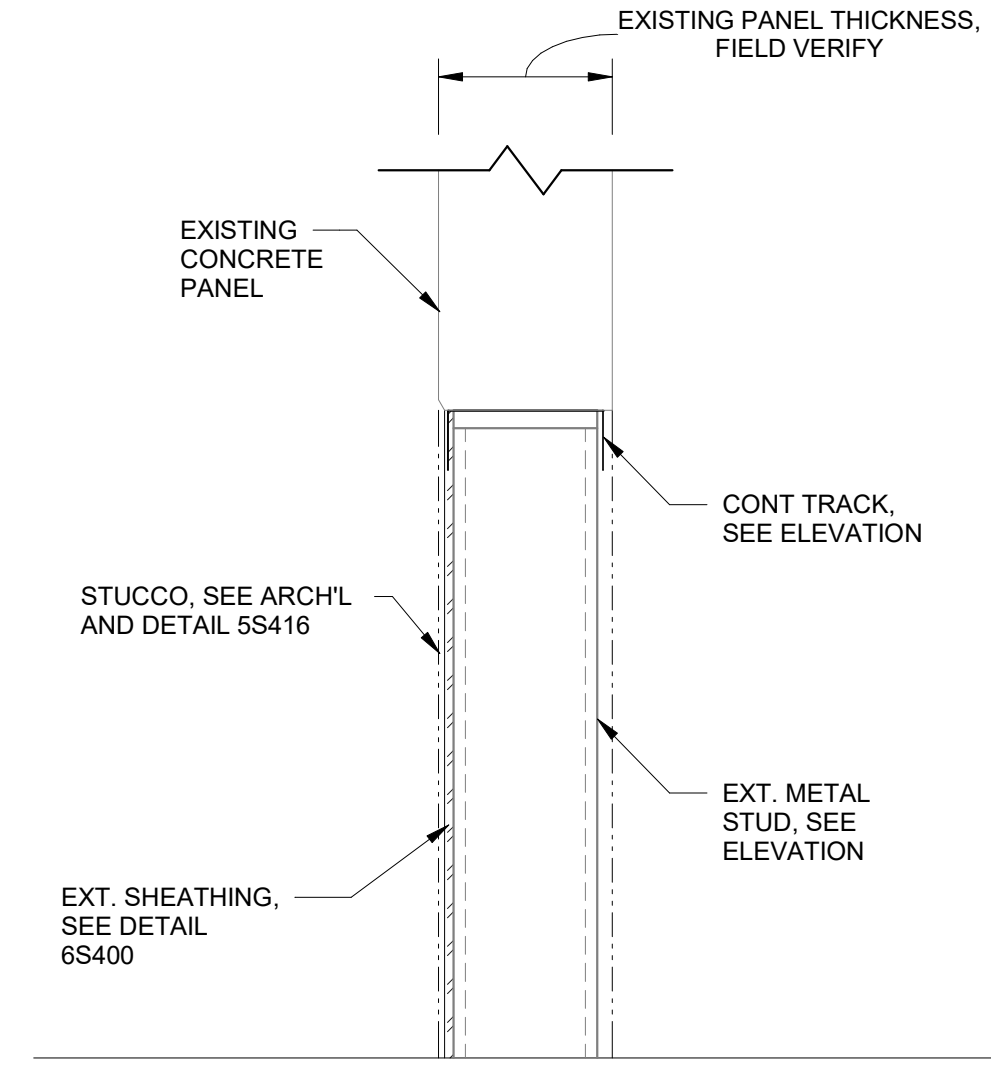
TYPICAL METAL STUD DETAILS

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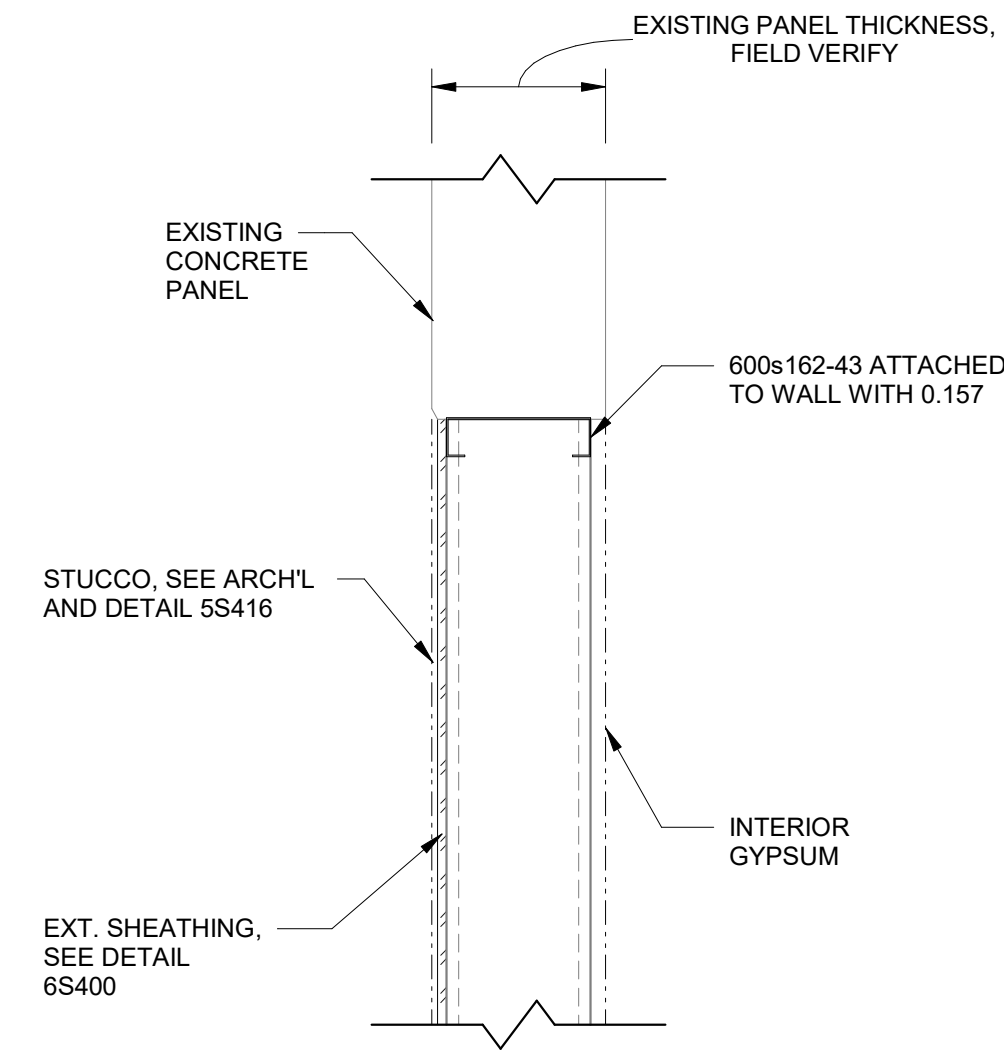


- DETAIL NOTES:**
1. THE CONTRACTOR SHALL FIELD VERIFY AND/OR DETERMINE ALL EXISTING DIMENSIONS AND CONDITIONS SHOWN ON THE PLAN AND DETAILS PRIOR TO BEGINNING CONSTRUCTION AND SUBMITTING DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR SPECIAL CONDITIONS FOR WHICH DETAILS FOR NEW CONSTRUCTION HAVE NOT BEEN PROVIDED PRIOR TO PROCEEDING WITH THE WORK, NO EXCEPTIONS.
 2. BASED UPON ACTUAL FIELD CONDITIONS ENCOUNTERED AT THE JOB SITE, ADDITIONAL NEW FRAMING OR MODIFICATIONS TO EITHER THE NEW OR EXISTING FRAMING SHOWN MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION REQUIRED BY THE SUB CONTRACTORS AND MATERIAL SUPPLIERS BASED UPON FIELD MEASUREMENTS AND DETERMINATION OF EXISTING CONDITIONS AT THE JOB SITE. THIS INFORMATION SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW TO THE ARCHITECT AND ENGINEER, NO EXCEPTIONS.
 3. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION.

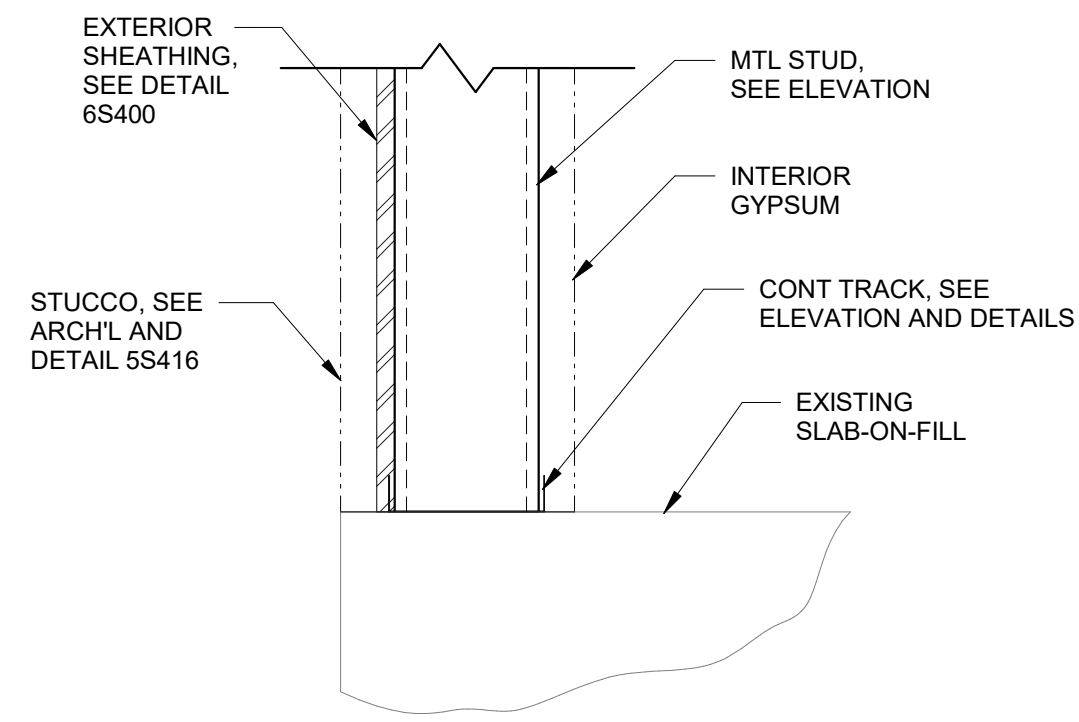
- KEY NOTES:**
- 1 600S162-43 SPACED AS SHOWN
 - 2 EXT. SHEATHING, SEE DETAIL 6S400



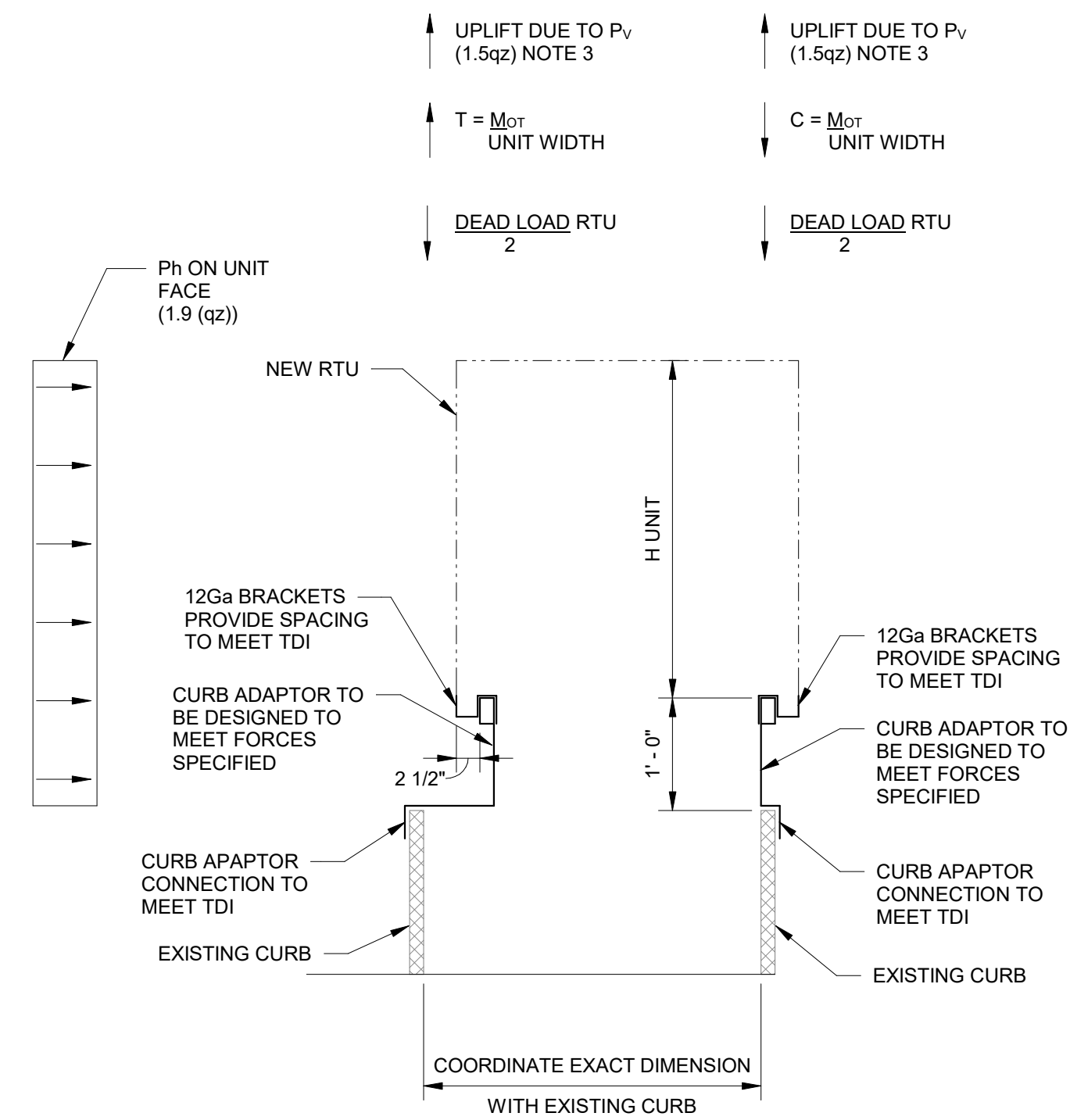
1 JAMB TYPICAL DETAIL
1 1/2" = 1'-0"



2 TYPICAL EXTERIOR OPENING INFILL DETAIL
1 1/2" = 1'-0"

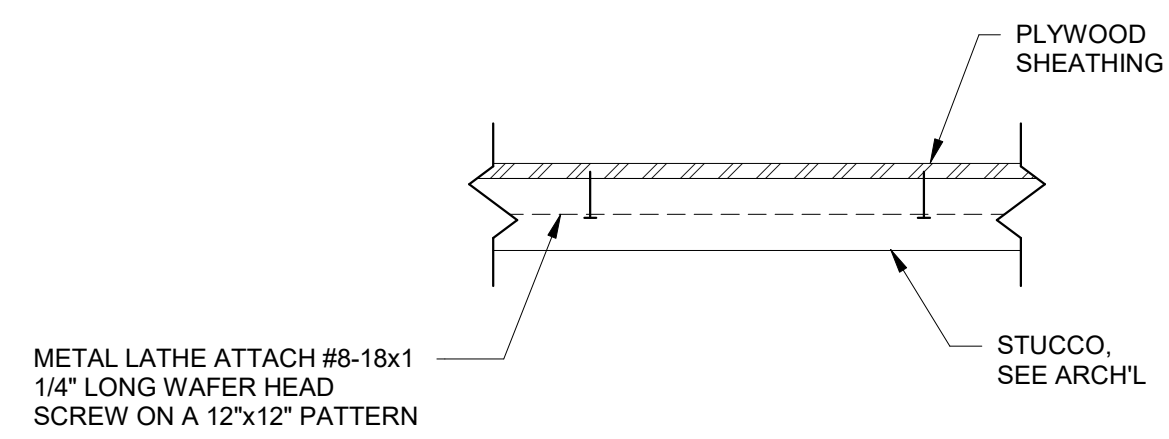


3 TYPICAL LEVEL 1 INFILL STUD ATTACHMENT DETAIL
1 1/2" = 1'-0"



1. DESIGN WIND SPEED V = 143 MPH
2. OVERTURNING MOMENT = $M_{OT} = H \text{ UNIT} \times P_h \times H \text{ UNIT}/2$
3. OMIT UPLIFT WHEN DESIGNING COMPRESSION LOAD ON CURB ADAPTOR
4. DESIGN BRACKET FOR MAX UPLIFT DUE TO OVERTURNING MOMENT PLUS UPLIFT TOP OF ROOF TOP UNIT. $(0.9D + W)$
5. CURB ADAPTER, CURB ADAPTER CONNECTION TO EXISTING CURB, AND RTU TO CURB ADAPTER CONNECTIONS TO MEET TDI. PROVIDED, SIGNED, AND SEALED DRAWINGS AND CALCULATIONS FOR CONNECTIONS AND CURB.

4 SCHEMATIC LOADING DIAGRAM ON CURB ADAPTOR
3/4" = 1'-0"



5 TYPICAL STUCCO CONNECTION DETAIL
1 1/2" = 1'-0"

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DATE	DESCRIPTION
02/11/25	ADDENDUM NO.1

WORKFORCE SOLUTIONS
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TYPICAL METAL STUD DETAILS

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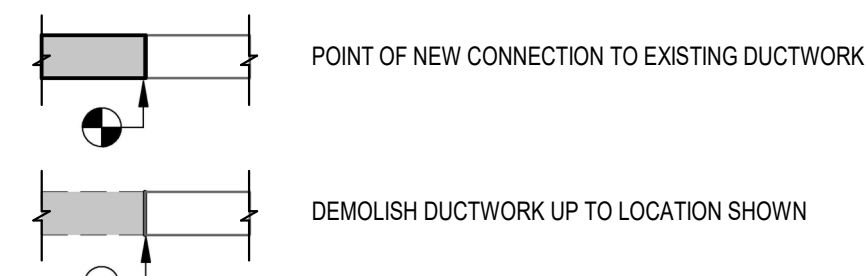
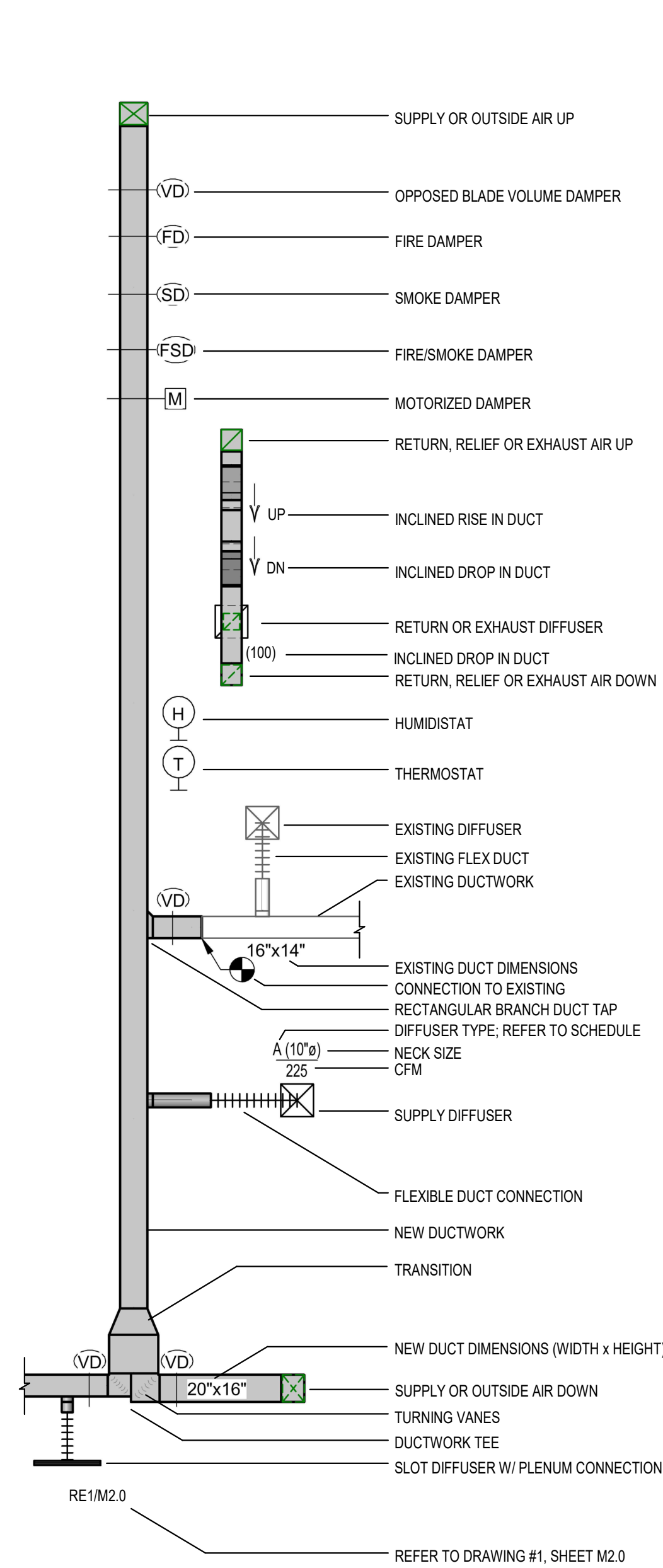
SHEET NUMBER
S416

MECHANICAL SYMBOLS

PIPING SYMBOLS

	CAP ON END OF PIPE
	ELBOW UP
	ELBOW DOWN
	VALVE IN DROP
	VALVE IN RISE
	DIRECTION OF FLOW
	DIRECTION OF SLOPE DOWN
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TEE OUTLET UP
	TEE OUTLET DOWN
	UNION
	FLANGE
	PIPE ANCHOR
	EXPANSION JOINT
	STRAINER WITH BLOW DOWN VALVE
	GATE VALVE, HVAC BALANCING/STOP VALVE
	GLOBE VALVE
	BALL VALVE
	BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
	OS&Y VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	TWO-WAY MODULATING CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	GAS REGULATOR
	GAS COCK OR PLUG VALVE
	SPRINKLER FLOOR CONTROL STATION
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	T&P RELIEF VALVE
	LINE CLEANOUT/WALL CLEANOUT
	FLOOR CLEANOUT
	FLOOR CLEANOUT AT GRADE
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
	WATER METER
	FLEXIBLE CONNECTION
	PRESSURE AND TEMPERATURE TAP
	FLOW VENTURI
	VACUUM BREAKER
	VACUUM RELIEF VALVE
	BACKFLOW PREVENTER
	CIRCULATING PUMP
	STEAM TRAP

DUCTWORK



PIPING TYPES

	RL	REFRIGERANT LIQUID LINE
	RS	REFRIGERANT SUCTION LINE
	CD	CONDENSATE DRAIN LINE

MISCELLANEOUS

	ELECTRICAL DRAWING NOTE REFERENCE
	PLUMBING DRAWING NOTE REFERENCE
	MECHANICAL DRAWING NOTE REFERENCE

MECHANICAL GENERAL NOTES

- PIPING AND DUCTWORK ON DRAWINGS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING/DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTINGS, INSULATION, AND OTHER ACCESSORIES.
- EXACT LOCATIONS OF TERMINAL BOXES, GRILLES, DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCE AND EASY ACCESS.
- COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 10 FEET DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS.
- PROVIDE A CONICAL SPIN-IN SHEETMETAL INLET DUCT TO TERMINAL BOX SHALL BE SAME SIZE AS TERMINAL BOX INLET SIZE. PROVIDE RIGID ROUND DUCT THAT IS ONE SIZE LARGER THAN THE INLET BOX SIZE IF THE DISTANCE BETWEEN THE MAIN DUCT AND THE TERMINAL BOX INLET IS MORE THAN 6'-0" UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ADEQUATE CLEARANCE AROUND VAV BOXES AS REQUIRED BY MANUFACTURER. COORDINATE EXACT LOCATION WITH OTHER TRADES.
- ALL SUPPLY AIR DUCT UPSTREAM OF TERMINAL BOXES (PER DIRECTION OF AIRFLOW) SHALL BE SIZED AND CLASSIFIED TO BE MEDIUM PRESSURE DUCTWORK. THIS DUCT SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM PRESSURE DUCTWORK.
- INSTALL TERMINAL BOXES TO ENSURE ACCESS PANELS ARE NOT BLOCKED. MAINTAIN MINIMUM 4'-0" FOR CONTROL PANEL ACCESS.
- CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
- EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND CUTSHEETS BEFORE FABRICATION OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PADS.
- CONTRACTOR SHALL VERIFY DUCTED RETURN AIR PATH BACK TO ALL UNITS. REFER TO FLOOR PLANS AND AIR DEVICE TAGS FOR EXACT SIZING. WHERE RETURN AIR PATH IS ROUTED THROUGH A FIRE RATED WALL, A FIRE DAMPER SHALL BE PROVIDED IN THE DUCTWORK.
- COORDINATE EXACT LOCATION, FINISH, AND COLOR OF ALL AIR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED.
- PROVIDE ACCESS PANEL FOR ALL HVAC EQUIPMENT LOCATED ABOVE HARD CEILING. SIZE PANEL PER MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AND COORDINATE WITH ARCHITECT FOR FINISH.
- PROVIDE TEMPERATURE SENSORS, HUMIDISTATS AND CO2 SENSORS AT LOCATIONS INDICATED ON PLANS. MOUNT TEMPERATURE SENSORS 2'-0" BELOW THE FINISHED CEILING AND NEAR A RETURN AIR GRILLE. ENSURE ALL TEMPERATURE SENSORS ARE CLEAR OF CASEWORK PRIOR TO FINAL ROUGH-IN. MOUNT HUMIDISTATS AND CO2 SENSORS AT THE SAME ELEVATION AS LIGHT SWITCHES. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
- PROVIDE SPIN-IN CONNECTION WITH LOCKING QUADRANT BUTTERFLY FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT.
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.
- ALL LOW PRESSURE DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM AND LOW PRESSURE DUCTWORK.
- PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS.
- FASTEN AND SEAL ALL DUCTWORK JOINTS, LONGITUDINAL AND TRAVERSE SEAMS AND CONNECTIONS PER ASHRAE 90.1 SECTION 6.4.4.2.1. DUCT SEALANT SHALL BE INSPECTED PRIOR TO DUCTWORK BEING INSULATED.
- ALL EXPOSED DUCTWORK AND PIPING ALONG WITH ASSOCIATED ACCESSORIES IN AREAS WITH NO CEILING OR PARTIAL CEILING SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR.
- PROVIDE REMOTE SPIN-IN CONNECTION FOR ALL ROUND DUCTWORK CONNECTED TO RECTANGULAR DUCT LOCATED ABOVE A HARD CEILING.
- ALL EQUIPMENT LOCATED OUTDOORS SHALL BE SELECTED TO WITHSTAND 150 MPH WINDS AND SHALL BE SECURED DIRECTLY TO STRUCTURE GRADE. ALL FANS, RELIEF HOODS, AND INTAKE HOODS SHALL BE SECURED TO CURB USING STEEL CABLES. ALL PIPE SUPPORTS AND CONDUIT SUPPORTS SHALL BE ANCHORED TO ROOF DECK. ALL AIR COOLED CONDENSING UNITS SHALL BE ANCHORED TO ROOF DECK. VIBRATION ISOLATORS SHALL INCLUDE UPLIFT SECUREMENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOBSITE CONDITIONS DURING THE BIDDING PERIOD, SO THEY WILL HAVE OBTAINED THE SCOPE OF MECHANICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND DUCTWORK CONSISTING OF DEVICES, EQUIPMENT, OR APPARATUS WHICH MUST BE REROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING CONDITIONS ARE NECESSARILY INDICATED ON DRAWINGS. CONTRACTOR SHALL DEMOLISH ONLY WHAT IS INDICATED TO BE DEMOLISHED ON DRAWINGS.
- COORDINATE ALL MOUNTING LOCATIONS AND HEIGHTS OF AIR DEVICES WITH ARCHITECT PRIOR TO FINAL INSTALLATION.

01/24/2025

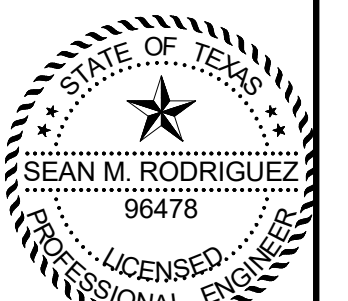


REVISIONS		
DATE	DESCRIPTION	MARK

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
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MECHANICAL SYMBOLS AND LEGENDS

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Sean Rodriguez
Professional Engineer

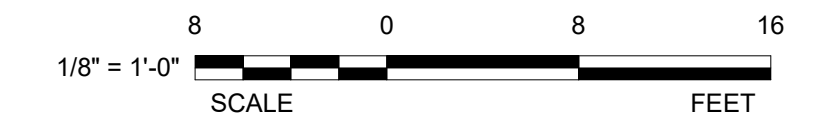
NRG ENGINEERING
5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO. 005318

01/24/2025

24169

JOB NO.	202415
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DRN. BY:	JS
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SHEET NUMBER
M001



02/04/2025

615 N. Upper Broadway
Suite 1250
Corpus Christi, TX
78401-0750

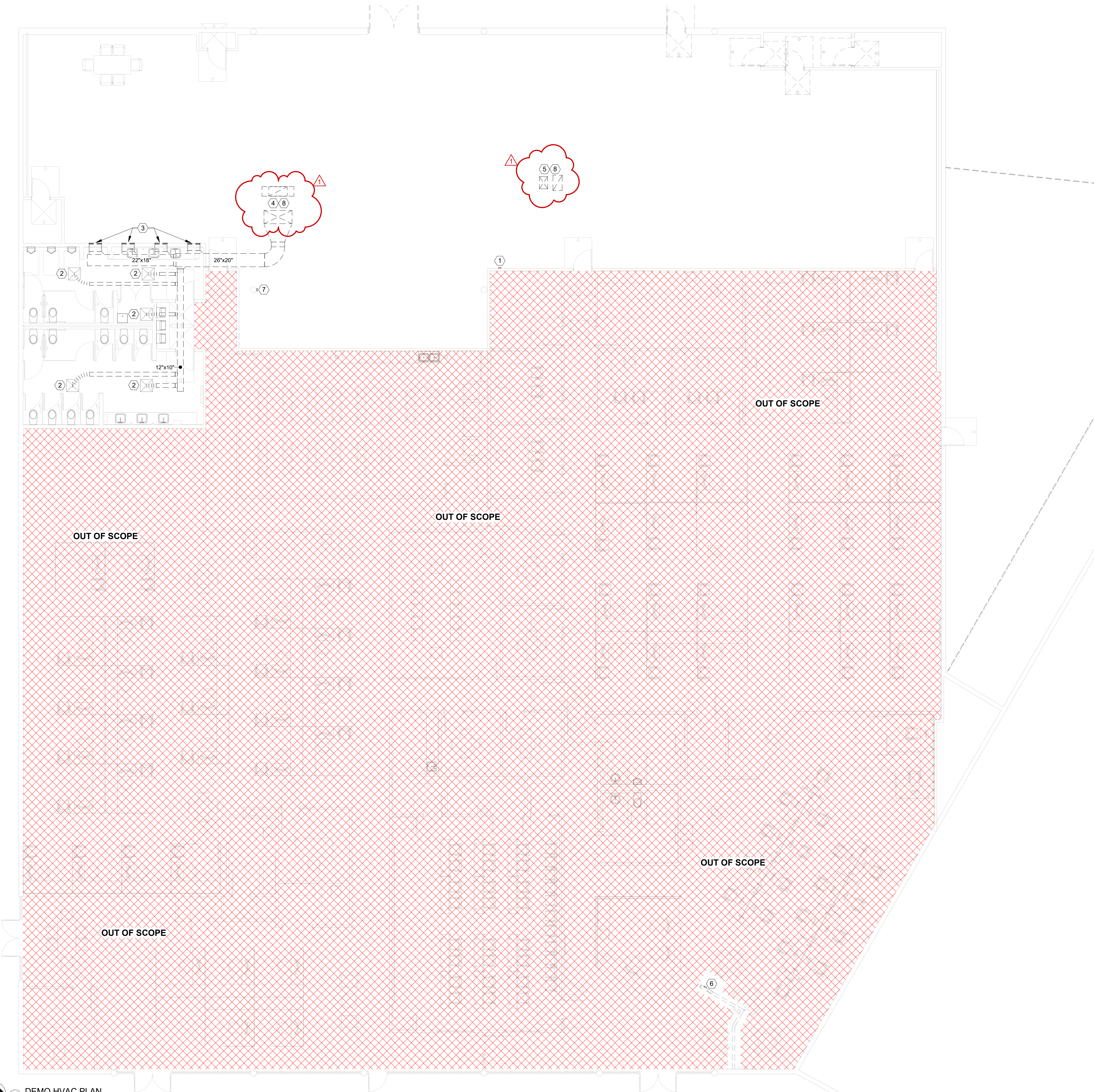
MECHANICAL GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- D. SEE M001 FOR SYMBOLS LEGEND AND ADDITIONAL GENERAL NOTES.
- E. PROVIDE MANUAL BALANCING DAMPER IN ACCESSIBLE LOCATION ON ALL DIFFUSER, RETURN, AND GRILLE RUNOUTS EVEN IF NOT SHOWN ON PLAN.
- F. MOUNT ALL THERMOSTATS 48" AFF UNLESS OTHERWISE NOTED.
- G. DIAGONAL CROSSHATCH INDICATES OUT OF SCOPE AREA

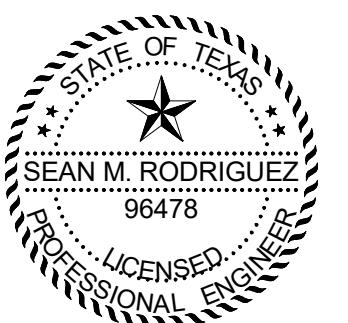
MECHANICAL KEY NOTES:

- 1 EXISTING THERMOSTAT SERVES (E)RTU-2. REMOVE AND PREP FOR REUSE.
- 2 SALVAGE EXISTING DIFFUSER. CLEAN, AND PREP FOR REUSE.
- 3 DEMOLISH EXISTING SIDEWALL GRILLE. PATCH WALL PER ARCHITECTURAL PLANS.
- 4 DEMOLISH EXISTING DUCTS AND DIFFUSERS UP TO (E)RTU-1. PREPARE (E)RTU-1 FOR REUSE.
- 5 DEMOLISH CONCENTRIC DIFFUSER AND EXISTING DUCTS UP TO (E)RTU-2. PREPARE (E)RTU-2 FOR REUSE.
- 6 EXISTING THERMOSTAT SERVES (E)RTU-10. REMOVE AND PREP FOR REUSE.
- 7 DEMOLISH EXISTING THERMOSTAT SERVING (E)RTU-1.
- 8 INCLUDE DEMOLITION OF EXISTING RTU AS SEPARATE LINE ITEM IN ALTERNATE #1.

REVISIONS	
DATE	DESCRIPTION
02/11/25	
PREBID ADDENDUM 01	



1 DEMO HVAC PLAN
1/8" = 1'-0"



Sean Rodriguez

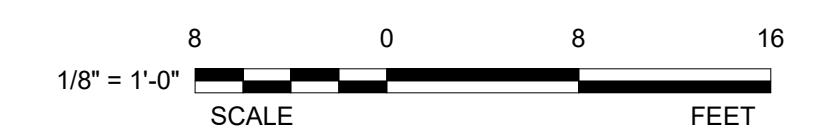
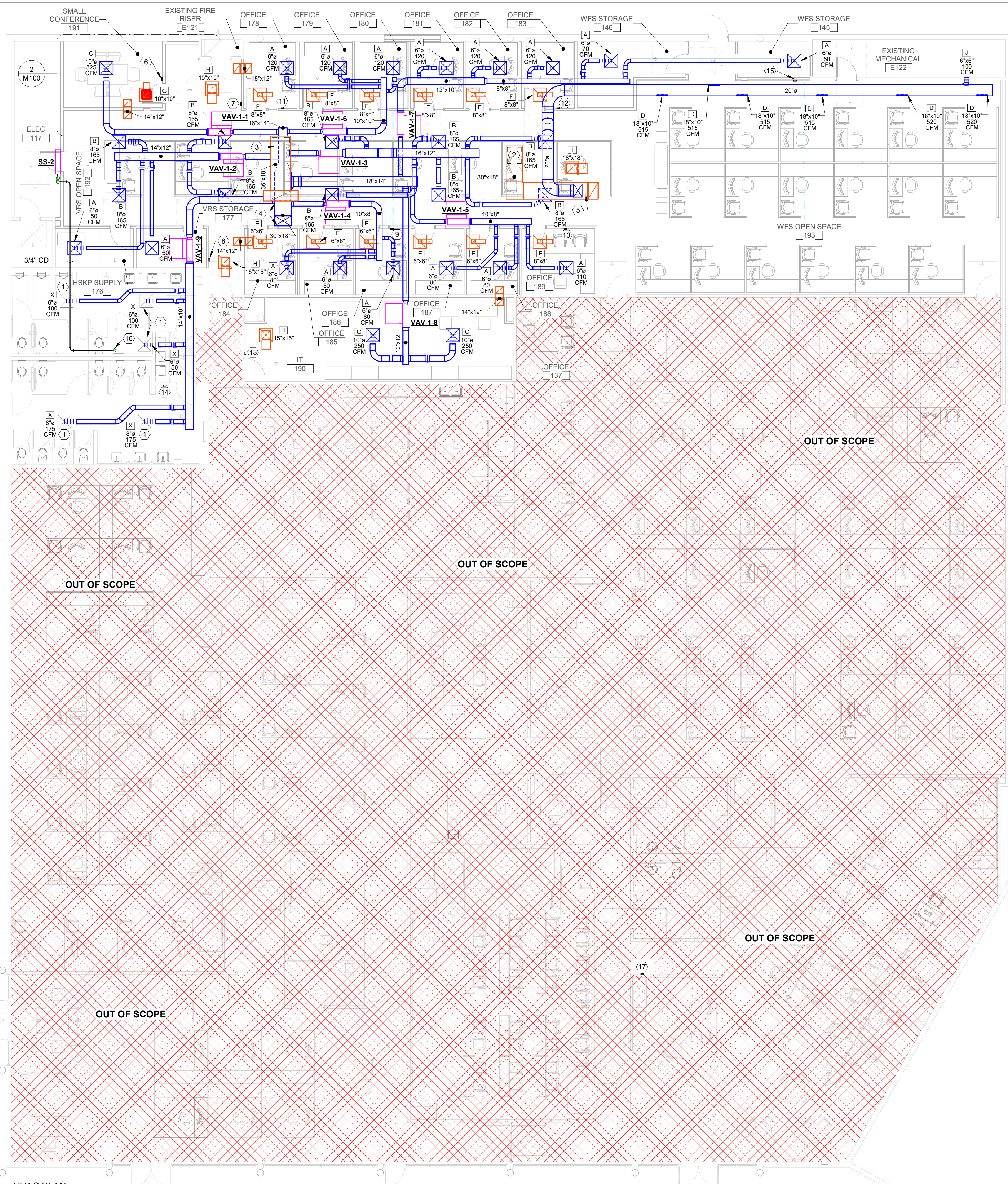
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TEXAS ENGINEERING FIRM NO. 005316

24169

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415
DEMO HVAC PLAN

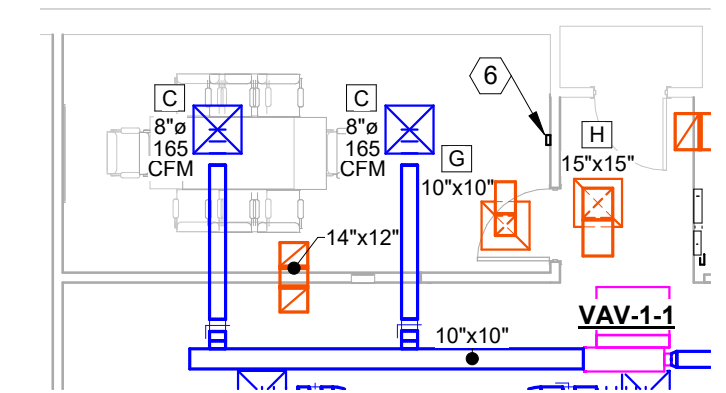
JOB NO.	202217
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	02/04/2025
DRN. BY:	JS
CKD. BY:	SR

SHEET NUMBER
MD100



- MECHANICAL GENERAL NOTES:**
- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
 - B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
 - C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
 - D. SEE M001 FOR SYMBOLS LEGEND AND ADDITIONAL GENERAL NOTES.
 - E. PROVIDE MANUAL BALANCING DAMPER IN ACCESSIBLE LOCATION ON ALL DIFFUSER, RETURN, AND GRILLE RUNOUTS EVEN IF NOT SHOWN ON PLAN.
 - F. MOUNT ALL THERMOSTATS 48" AFF UNLESS OTHERWISE NOTED.
 - G. DIAGONAL CROSSHATCH INDICATES OUT OF SCOPE AREA

- MECHANICAL KEY NOTES:**
- 1. INSTALL SALVAGED DIFFUSER AT LOCATION. BALANCE TO SPECIFIED CFM.
 - 2. CUT 33"x28" OPENING IN TOP OF RETURN DUCT. PROVIDE 5' ACOUSTICAL DUCT LINING.
 - 3. CUT 34"x34" OPENING IN TOP OF RETURN DUCT. PROVIDE 5' ACOUSTICAL DUCT LINING.
 - 4. 30"x18" SA AND 36"x18" RA UP TO (E)RTU-1. PROVIDE NEW SMACNA TRANSITION WHERE UNIT CONNECTS TO DUCTWORK. INSTALL SALVAGED DUCT SMOKE DETECTORS IN DUCT. CONNECT TO BUILDING FIRE ALARM SYSTEM. UNIT TO DEACTIVATE UPON DETECTION OF SMOKE. PROVIDE ALL NECESSARY RELAYS AND COORDINATE WITH FIRE ALARM CONTRACTOR.
 - 5. 24"x16" SA AND 30"x18" RA UP TO (E)RTU-2. PROVIDE NEW SMACNA TRANSITION WHERE UNIT CONNECTS TO DUCTWORK. INSTALL SALVAGED DUCT SMOKE DETECTORS IN DUCT. CONNECT TO BUILDING FIRE ALARM SYSTEM. UNIT TO DEACTIVATE UPON DETECTION OF SMOKE. PROVIDE ALL NECESSARY RELAYS AND COORDINATE WITH FIRE ALARM CONTRACTOR.
 - 6. THERMOSTAT TO CONTROL VAV-1-1.
 - 7. THERMOSTAT TO CONTROL VAV-1-2.
 - 8. THERMOSTAT TO CONTROL VAV-1-3.
 - 9. THERMOSTAT TO CONTROL VAV-1-4.
 - 10. THERMOSTAT TO CONTROL VAV-1-5.
 - 11. THERMOSTAT TO CONTROL VAV-1-6.
 - 12. THERMOSTAT TO CONTROL VAV-1-7.
 - 13. THERMOSTAT TO CONTROL VAV-1-8.
 - 14. THERMOSTAT TO CONTROL VAV-1-9.
 - 15. RELOCATE EXISTING THERMOSTAT SERVING (E)RTU-2 TO LOCATION.
 - 16. TERMINATE 3/4" CD AT MOP SINK.
 - 17. RELOCATE EXISTING THERMOSTAT SERVING (E)RTU-10 TO LOCATION.



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

01/24/2025

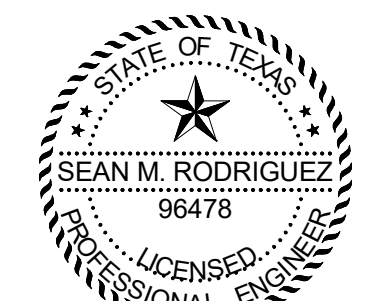
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DATE	DESCRIPTION

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
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HVAC PLAN

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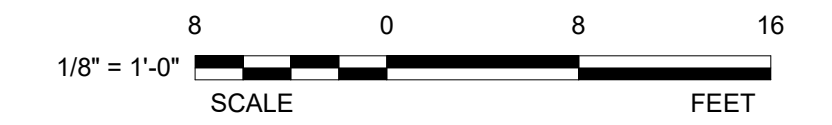
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PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	JS
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SHEET NUMBER
M100

24169

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



MECHANICAL GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
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- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- D. SEE M001 FOR SYMBOLS LEGEND AND ADDITIONAL GENERAL NOTES.
- E. PROVIDE MANUAL BALANCING DAMPER IN ACCESSIBLE LOCATION ON ALL DIFFUSER, RETURN, AND GRILLE RUNOUTS EVEN IF NOT SHOWN ON PLAN.
- F. MOUNT ALL THERMOSTATS 48" AFF UNLESS OTHERWISE NOTED.
- G. DIAGONAL CROSSHATCH INDICATES OUT OF SCOPE AREA

MECHANICAL KEY NOTES:

- ① EXISTING RTU TO REMAIN. ALL CONDENSATE DRAIN PIPING IS EXISTING ROUTED BELOW THE ROOF.
- ② REPROGRAM RTU FOR VAV OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPGRADING THE RTU CONTROLS BOARD AS NECESSARY FOR THE INTENDED OPERATION. THE CONTRACTOR SHALL PROVIDE ALL TEMPERATURE, HUMIDITY, DUCT SENSORS, AND PRESSURE SENSORS FOR A COMPLETE AND OPERATING SYSTEM. INSTALL DUCT MOUNTED PRESSURE SENSOR 2/3 DOWN THE SUPPLY DUCT. STATIC PRESSURE SETPOINT WILL BE DETERMINED DURING BALANCING.
- ③ PROVIDE CHEM LINK CHEMOURS HOT PIPE SCURF FOR ROOF PENETRATION OF REFRIGERANT LINES TO EQUIPMENT BELOW.
- ④ BID RTU REPLACEMENT AS ALTERNATE #1. EACH RTU SHALL BE SEPERATE LINE ITEM. REFERENCE ALTERNATE RTU SCHEDULE ON M401

02/04/2025

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02/11/25	PREBID ADDENDUM 01

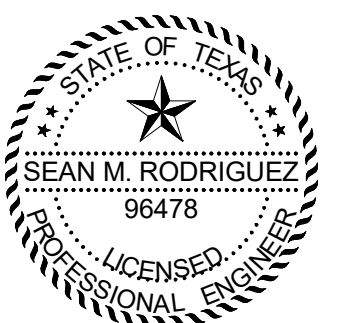
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PHASE III RENOVATION
4981 AYERS STREET
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MECHANICAL ROOF PLAN

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SHEET NUMBER
M101

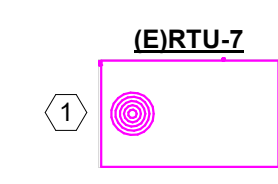
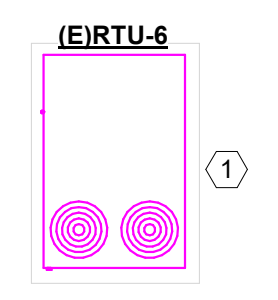
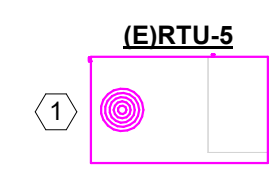
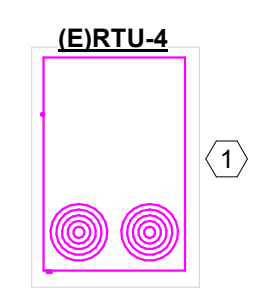
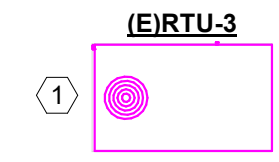
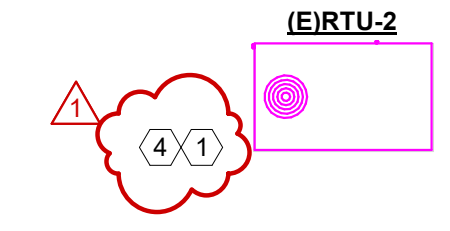
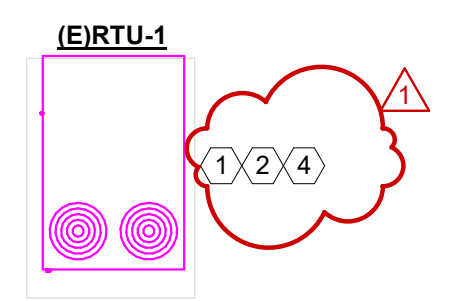


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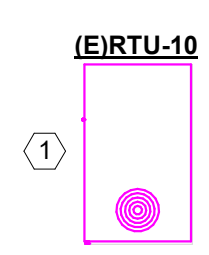
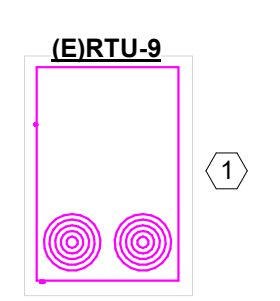
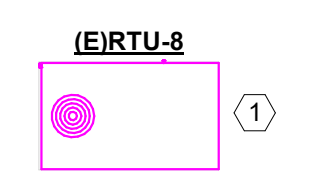
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TEXAS ENGINEERING FIRM NO. 005318

24169

CU-2 ③



ECU-1



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



AIR HANDLER SCHEDULE		
MARK	SS-2	
SERVES	ELECTRICAL 117	
TYPE	WALL MOUNT	
MIN-MAX SUPPLY (CFM)	361 - 701	
FAN MOTOR TYPE	DC MOTOR	
COOLING COIL @ DESIGN CONDITIONS		
COOLING COIL (MBTUH) MAX/MIN	24.0/8.2	
NOMINAL TONNAGE	2.0	
ELECTRICAL DATA		
VOLTS/PH/HZ	208/1/60	
MCA	1.0	
MANUFACTURER	MITSUBISHI	
MODEL NO.	MSY-GS24NA	
NOTES	1,3,4,5,6,7	
CONDENSING UNIT SCHEDULE		
MARK	CU-2	
SERVES	SS-2	
NOMINAL COOLING MBTUH	24.0	
AMBIENT TEMP. COOLING	95	
SEER2 (EER2)	21.5 (12.6)	
COP(47/17)	-	
HSPF	-	
MCA	18.0	
MOCP	20	
VOLTS/PH.HZ	208/1/60	
WEIGHT (lb)	118	
MANUFACTURER	MITSUBISHI	
MODEL NO.	MUY-GS24NA	
NOTES	2,3,6	
1. PROVIDE UNIT WITH MICROBLUE OR MEGABLUE CONDENSATE PUMP AND RESERVOIR WITH OVERFLOW SENSOR. 2. SIZE REFRIGERANT LINES AS PER THE MANUFACTURERS INSTRUCTIONS. PROVIDE INVERTER DRIVEN COMPRESSORS, HIGH AND LOW PRESSURE SWITCHES, CRANKCASE HEATERS, NON-BLEED PORT, AND ADJUSTABLE LEV VALVE. 3. DO NOT EXCEED MANUFACTURERS RECOMMENDED REFRIGERANT LINE LENGTHS. 4. PROVIDE WIRED THERMOSTAT WITH WIFI CAPABILITIES. 5. UNITS SHALL BE CEILING MOUNTED COOLING AND HEATING. 6. ACCEPTABLE MANUFACTURERS ARE MITSUBISHI OR DAIKIN. 7. INDOOR UNIT SHALL BE POWERED THROUGH THE OUTDOOR UNIT.		

AIR BALANCE SCHEDULE							
BASED ON ASHRAE 62.1-2010							
MARK	SERVES	SUPPLY AIR CFM	RETURN AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	RESULTING BALANCE	PERCENT OUTSIDE AIR
(E)RTU-1	VRS OFFICE	4535	3835	700		700	15.4%
(E)RTU-2	WFS OPEN OFFICE	3200	2940	260		260	8.1%
(E)RTU-3	EXISTING	3200	2820	380		380	11.9%
(E)RTU-4	EXISTING	2655	2275	360		360	13.7%
(E)RTU-5	EXISTING	3200	2865	335		335	10.5%
(E)RTU-6	EXISTING	2340	1770	570		570	24.4%
(E)RTU-7	EXISTING	3200	2695	505		505	15.8%
(E)RTU-8	EXISTING	3200	2400	800		800	25.0%
(E)RTU-9	EXISTING	4635	4175	460		460	9.9%
(E)RTU-10	EXISTING	4060	3640	420		420	10.3%
(E)EF-1	RETROOOMS				800	-800	
(E)EF-2	MEN 125				100	-100	
(E)EF-3	WOMEN 125				100	-100	
OA	OUTSIDE AIR TOTAL					4790	
EA	EXHAUST AIR TOTAL					-1000	
	DIFFERENCE (OA-EA)					3790	
CONDITIONED AREA (SQURE FEET)					24575		
DESIRED CFM FOR PRESSURIZATION (CFM/SF)					0.066	1621.95	CFM
BUILDING LEAKAGE BASED ON EXISTING BLDG AT 0.1 CFM/SF X TOTAL SURFACE AREA						1340.1	CFM
BUILDING EXHAUST						1000	CFM
MINIMUM REQUIRED FOR PRESSURIZATION (A+B+C)						3962	CFM
AMOUNT OF FRESH AIR PROVIDED (DELIVERED)						4790	
AMOUNT TO BE RELIEVED (DELIVERED - MINIMUM)						828	CFM
BUILDING PRESSURIZED AT:					0.05 in. W.G.	AT	3963 CFM
NOTES:							
1. EXISTING RTUs LISTED FOR REFERENCE ONLY. EXISTING RTUs ARE OUTSIDE OF SCOPE OF WORK.							

DUCT CONSTRUCTION AND SEALING			
DUCT SYSTEM	S.M.A.C.N.A CLASS	SEAL CLASS	REMARKS
SUPPLY AIR DUCT	2"	B	
RETURN AIR DUCT	2"	B	
EXHAUST AIR DUCT	2"	B	

APPLICABLE LEAKAGE CLASSES			
DUCT CLASS	1/2, 1, OR 2 INCH WG	3 INCH WG	4, 6, 10 INCH WG
SEAL CLASS	B	B	A
SEALING APPLICABLE	Transverse Joints and Seams	Transverse Joints and Seams	Joints, Seams and Wall Penetrations
LEAKAGE CLASS	12	12	6
RECTANGULAR METAL	6	6	3

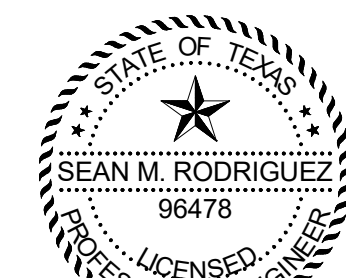
ROOFTOP UNIT SCHEDULE - BASE BID		
MARK	(E)RTU-1	(E)RTU-2
SERVES	VRS OFFICE	WFS OFFICE
TONS	10	10
EER (IEER)	12.1	12.4
CFM	3800	3200
OA CFM	700	260
FAN RPM	-	-
EXT SP	1.5"	0.8"
BHP	-	-
COOLING SECTION		
EAT DB/WB	76.9/64.9	76.0/69.4
LAT DB/WB	55.0/54.0	55.0/54.0
TOT MBTUH	114.9	97.9
SEN MBTUH	85.3	47.4
HEATING SECTION		
HEATING EAT	61.0	61
HEATING LAT	65.0	88
HEATING KW	18.0	27.0 (2)
ELECTRICAL INFO		
VOLTS/PH	480/3/60	480/3/60
MCA	35	46
MOCP	40	50
MFG	CARRIER	CARRIER
MODEL No.	50TC-D14A2C6	50TC-12A2C6
WEIGHT	2500	1700
NOTES:	ALL	1-3, 5
CONTRACTOR PROVIDED AND INSTALLED ITEMS:		
1. CONTRACTOR IS RESPONSIBLE FOR CLEAN HVAC COILS AT THE END OF CONSTRUCTION. PROVISIONS SHALL BE TAKEN TO KEEP COILS CLEAN. IF THE COIL GETS DIRTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OR REPLACING COIL.		
2. CONTRACTOR SHALL PROVIDE THREE SETS OF 2" DEEP PLEATED MERV 8 RATED FILTERS EQUIVALENT TO FAR9 30/30 FILTERS. THE CONTRACTOR SHALL REPLACE FILTERS JUST AFTER ANY HEAVY SANDING, JUST PRIOR TO AIR BALANCE, AND ONCE AGAIN AFTER FINAL STORE CLEANING IS COMPLETE.		
3. CONTRACTOR TO PROGRAM HVAC EQUIPMENT THERMOSTAT. INITIAL OPERATION HOURS AND TEMPERATURE SETPOINTS. ADJUST OPERATIONAL HOURS WHEN OBTAINED BY THE GENERAL CONTRACTOR.		
4. PROVIDE IDENTIFICATION ON ALL HVAC EQUIPMENT. PROVIDE STENCIL WITH A MINIMUM OF 4" HIGH BLACK SPRAY PAINTED LETTERS INDICATING THE TENANT'S NAME, HVAC UNIT NUMBER, AND SPACE NUMBER. VERIFY ADDITIONAL REQUIREMENTS WITH THE LANDLORD.		

AIR DEVICE SCHEDULE										
PLAN MARK	MANUF. & MODEL NUMBER	SERVICE	MODULE SIZE	NECK SIZE	FACE SIZE	BORDER TYPE	FINISH	BLOW PATTERN	MATL.	OPTIONS/NOTES
A	TITUS OMNI-AA	SUPPLY	24 X 24	8"	24 X 24	3	26	4	ALU	
B	TITUS OMNI-AA	SUPPLY	24 X 24	8"	24 X 24	3	26	4	ALU	
C	TITUS OMNI-AA	SUPPLY	24 X 24	10"	24 X 24	3	26	4	ALU	
D	TITUS S300FL	SUPPLY	18 X 10	18 X 10	20 X 12	1	01	-	ALU	PROVIDE WITH INSULATED BACK PAN
E	TITUS PAR-AA	RETURN	24 X 24	6 X 6	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN
F	TITUS PAR-AA	RETURN	24 X 24	8 X 8	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN
G	TITUS PAR-AA	RETURN	24 X 24	10 X 10	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN
H	TITUS PAR-AA	RETURN	24 X 24	15 X 15	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN
I	TITUS PAR-AA	RETURN	24 X 24	18 X 18	24 X 24	3	01	-	ALU	PROVIDE WITH INSULATED BACK PAN
J	TITUS 300FL	SUPPLY	6 X 6	6 X 6	8 X 8	1	01	-	ALU	
BORDER TYPE		BLOW PATTERN		FINISH		OPTIONS/NOTES				
1. SURFACE MOUNT 2. SNAP-IN 3. LAY-IN 4. SPLINE 5. DROPPED 6. BEVELED		1. 1-WAY 2. 2-WAY 2C. 2-WAY, OPPOSITE 3. 3-WAY 4. 4-WAY+		01 ALUMINUM 04 MILL (STD) 26 WHITE		TRM RAPID MOUNT FRAME PFSS SS PLASTER FRAME PFA ALUM PLASTER FRAME AG-15 STEEL DAMPER AG-15-AA ALUMINUM DAMPER AG-15-SS STAINLESS STEEL DAMPER EQT EARTHQUAKE TABS L FRONT BLADE LONG ORIENTATION S FRONT BLADE SHORT ORIENTATION AG-85 BUTTERFLY DAMPER EG EQUALIZING GRID TRV THROW REDUCING VANES				
MATERIAL										
STL 22 GAUGE STEEL ALU ALUMINUM										

SINGLE DUCT TERMINAL UNIT SCHEDULE																								
TAG	MANUFACTURER	MODEL	RTU TAG	ROOMS SERVED	SIZE UNIT	DUCT RUNOUT	CFM MAX	MIN	% TURNDOWN	STATIC PRESSURE				NC LEVELS			ELECTRIC HEATING COIL			ELECTRICAL				NOTES
										INLET	DOWN	MIN	RAD.	DISCH.	CFM	KW	VOLTS/PH	STEPS	EAT	LAT	MCA	MOPD		
VAV-1-1	PRICE	SDV	RTU-1	191	6	8	325	100	31%	1.00	0.30	0.10	25	-	325	2.6	208/1	S	65.0	90.0	17.0	20	1-7	
VAV-1-2	PRICE	SDV	RTU-1	192, 176, 177	8	10	760	230	30%	1.00	0.30	0.01	26	21	760	6.0	208/1	S	65.0	90.0	39.3	40	1-7	
VAV-1-3	PRICE	SDV	RTU-1	192	8	10	990	300	30%	1.00	0.30	0.01	31	26	990	7.8	208/1	S	65.0	90.0	51.1	60	1-7	
VAV-1-4	PRICE	SDV	RTU-1	184, 185, 186	6	8	250	75	30%	1.00	0.30	0.06	24	-	250	2.0	208/1	S	65.0	90.0	13.1	15	1-7	
VAV-1-5	PRICE	SDV	RTU-1	187, 188, 189	6	8	270	85	31%	1.00	0.30	0.07	25	-	270	2.1	208/1	S	65.0	90.0	13.8	15	1-7	
VAV-1-6	PRICE	SDV	RTU-1	178, 179, 180	6	8	360	110	31%	1.00	0.30	0.12	26	20	360	2.8	208/1	S	65.0	90.0	18.3	20	1-7	
VAV-1-7	PRICE	SDV	RTU-1	181, 182, 183, 146, 147	6	8	480	145	30%	1.00	0.30	0.21	30	25	480	3.8	208/1	S	65.0	90.0	24.9	25	1-7	
VAV-1-8	PRICE	SDV	RTU-1	190	6	10	500	150	30%	1.00	0.30	0.22	31	26	500	4.0	208/1	S	65.0	90.0	26.2	30	1-7	
VAV-1-9	PRICE	SDV	RTU-1	102, 103, 104	8	12	600	600	100%	1.00	0.30	0.01	25	-	600	4.7	208/1	S	65.0	90.0	30.8	35	1-8	

NOTES:

- ALL PERFORMANCE BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ASHRAE 130-2016 AND AHRI 880-2017.
- ALL NC LEVELS DETERMINED USING AHRI 885-2008 APPENDIX E.
- ALL AIRFLOW, PRESSURE LOSSES AND HEATING PERFORMANCE VALUES HAVE BEEN CORRECTED FOR ALTITUDE.
- UNITS OF MEASURE: DIMENSIONS (IN), AIRFLOW (CFM), WATER FLOW (GPM), AIR PRESSURE (IN WG), WATER HEAD LOSSES (FT) AND TEMPERATURES (DEG F).
- IN THE "STEPS" COLUMN, CODE "S" DENOTES A MODULATING SCR HEATER.
- THE MINIMUM SUPPLY CIRCUIT AMPACITY (MCA) AND MAXIMUM OVERCURRENT PROTECTION (MOPD) RATINGS WERE CALCULATED IN ACCORDANCE WITH UL STANDARDS BASED ON MOTOR AND ELECTRIC COIL FULL LOAD CURRENT RATINGS.
- PROVIDE DOOR INTERLOCK DISCONNECT FOR EACH UNIT.
- CONSTANT VOLUME BOX. DAMPER SHALL MODULATE TO MAINTAIN AIRFLOW. HEATER SHALL MODULATE TO MAINTAIN ROOM SETPOINT.



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TEXAS ENGINEERING FIRM NO. 065318

REVISIONS	
DATE	DESCRIPTION
02/11/25	PRELIM ADDENDUM 01

615 N. Upper Broadway
Suite 1250
Corpus Christi, TX
78401-0750

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

MECHANICAL SCHEDULES

JOB NO.	202217
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	02/04/2025
DRN. BY:	JS
CKD. BY:	SR

SHEET NUMBER
M400

24169

ROOFTOP UNIT SCHEDULE - ALT 1

MARK	RTU-1	RTU-2			
SERVES	VRS OFFICE	WFS OFFICE			
TONS	10	10			
EER (IEER)	13.1 (20.5)	13.1 (20.5)			
CFM	3800	3200			
OA CFM	700	500			
FAN RPM	650	644			
EXT SP	1.5"	0.8"			
BHP	1.57	1.37			
COOLING SECTION					
EAT DEWB	76.9/64.9	76.9/64.9			
LAT DEWB	55.0/54.0	55.0/54.0			
TOT MBTUH	114.9	110.6			
SEN MBTUH	85.3	77.6			
HEATING SECTION					
HEATING EAT	61.0	61.0			
HEATING LAT	68.7	91.5			
HEATING KW	9.2	30.80			
ELECTRICAL INFO					
VOLTS/PH	480/3/60	480/3/60			
MCA	26	56			
MOCP	30	60			
MFG	CARRIER	CARRIER			
MODEL No.	50LCEB12H2Q6	50LCEA12H2Q6			
WEIGHT	1811	1896			
NOTES:	ALL	1-3			

- NOTES:
1. PROVIDE MOTORIZED OUTSIDE AIR DAMPER, 0-100% 2 POSITION DAMPER.
 2. PROVIDE ECONOMIZER SECTION WITH BARAMETRIC RELIEF DAMPER, DIFFERENTIAL ENTHALPY SENSORS, AND FAULT DETECTION AND DIAGNOSTICS. (REQUIRED ON ALL UNITS LARGER THAN 5 TONS)
 3. UNITS GREATER THAN 75,000 BTUH SHALL HAVE TWO STAGES OF COOLING CAPACITY.
 4. PROVIDE UNIT WITH DIRECT DRIVE MOTOR, MICROCHANNEL CONDENSER COILS, HINGED ACCESS DOORS, 2" MERV 8 FILTERS AND ELECTRIC HEAT. PROVIDE 5 YEAR COMPRESSOR WARRANTY.
 5. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION. PROVIDE DUCT MOUNTED DISCHARGE AIR TEMPERATURE SENSOR FOR CAPACITY CONTROL.
 6. PROVIDE UNIT WITH HOT GAS BYPASS EQUAL TO RAWAL'S APR CAPACITY CONTROL DEVICE. INSTALL HOT GAS BYPASS VALVE AS PER MANUFACTURER'S INSTRUCTIONS.
 7. PROVIDE UNIT WITH FULLY PROGRAMMABLE HUMAN INTERFACE CONTROL BOARD. CONTROLLER SHALL HAVE A 1 YR WARRANTY.
 8. AUTOMATIC TEMPERATURE CONTROL: LOW VOLTAGE SEVEN DAY PROGRAMMABLE THERMOSTAT WITH NON-VOLITALE FLASH MEMORY TO RETAIN PROGRAM SCHEDULE. EQUIVALENT THERMOSTAT MANUFACTURES ARE LENNOX, TRANE, CARRIER, OR HONEYWELL VISION PRO 8000. UNIT SHALL HAVE OCCUPIED AND UNOCCUPIED SCHEDULES AND INCORPORATE TWO STAGE HEAT/COOL AS APPLICABLE WITH AN AUTO CHANGEOVER FEATURE. HEATING AND COOLING SET POINTS SHALL BE OPERATOR ADJUSTABLE (THERMOSTATS BY UNIT SUPPLIER). THERMOSTAT SHALL 24 HOUR MEMORY RETENTION, 5 DEGREE F DEADBAND, AUTOMATIC SETBACK WITH AN OCCUPANT OVERRIDE BUTTON, AND AN LCD DISPLAY.
 9. PROVIDE UNIT WITH CONDENSATE OVERFLOW SWITCH.
 10. EQUIVALENT MANUFACTURES ARE TRANE, AND DAIKIN. PROVIDE 14" FACTORY INSULATED ADAPTER CURB SECURED TO THE STRUCTURE PER WINDSTORM ENGINEER IF ALTERNATE MANUFACTURER IS SELECTED.
 11. PROVIDE UNIT WITH FACTORY 10,000 HOUR SEA SPRAY COATING AND RETURN AIR AND SUPPLY AIR SMOKE DETECTORS.
 12. PROVIDE UNIT WITH FACTORY CONTROLS FOR VAV OPERATION.

- CONTRACTOR PROVIDED AND INSTALLED ITEMS:
1. CONTRACTOR IS RESPONSIBLE FOR CLEAN HVAC COILS AT THE END OF CONSTRUCTION. PROVISIONS SHALL BE TAKEN TO KEEP COILS CLEAN. IF THE COIL GETS DIRTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OR REPLACING COIL.
 2. CONTRACTOR SHALL PROVIDE THREE SETS OF 2" DEEP PLEATED MERV 8 RATED FILTERS EQUIVALENT TO FARR 30/30 FILTERS. THE CONTRACTOR SHALL REPLACE FILTERS JUST AFTER ANY HEAVY SANDING, JUST PRIOR TO AIR BALANCE, AND ONCE AGAIN AFTER FINAL STORE CLEANING IS COMPLETE.
 3. CONTRACTOR TO PROGRAM HVAC EQUIPMENT THERMOSTAT, INITIAL OPERATION HOURS AND TEMPERATURE SETPOINTS. ADJUST OPERATIONAL HOURS WHEN OBTAINED BY THE GENERAL CONTRACTOR.
 4. PROVIDE IDENTIFICATION ON ALL HVAC EQUIPMENT. PROVIDE STENCIL WITH A MINIMUM OF 4" HIGH BLACK SPRAY PAINTED LETTERS INDICATING THE TENANT'S NAME, HVAC UNIT NUMBER, AND SPACE NUMBER. VERIFY ADDITIONAL REQUIREMENTS WITH THE LANDLORD.

02/04/2025

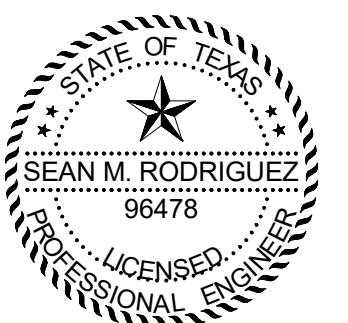


REVISIONS		
MARK	DESCRIPTION	DATE
1	PREBID ADDENDUM 01	02/11/25

**WORKFORCE SOLUTIONS
PHASE III RENOVATION**
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

RTU SCHEDULE - ALT 1

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Sean Rodriguez



02/04/25

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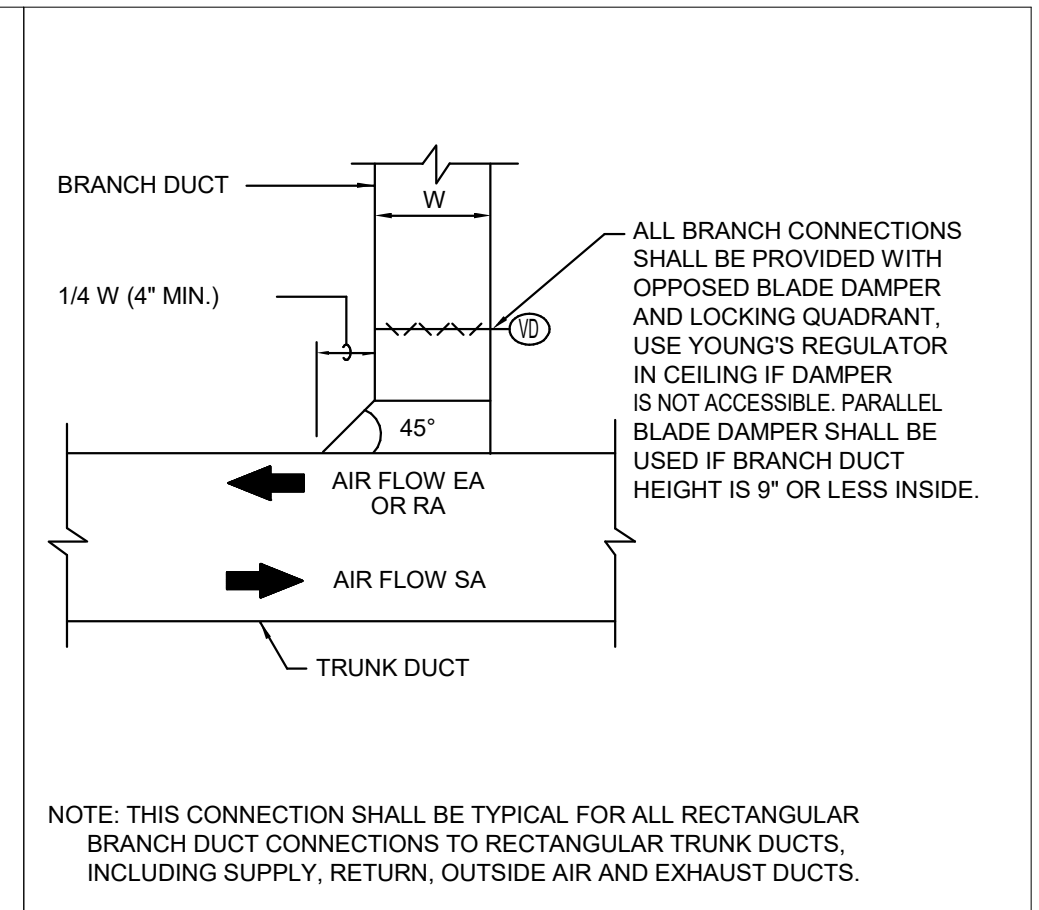
REVISIONS	
DATE	DESCRIPTION

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

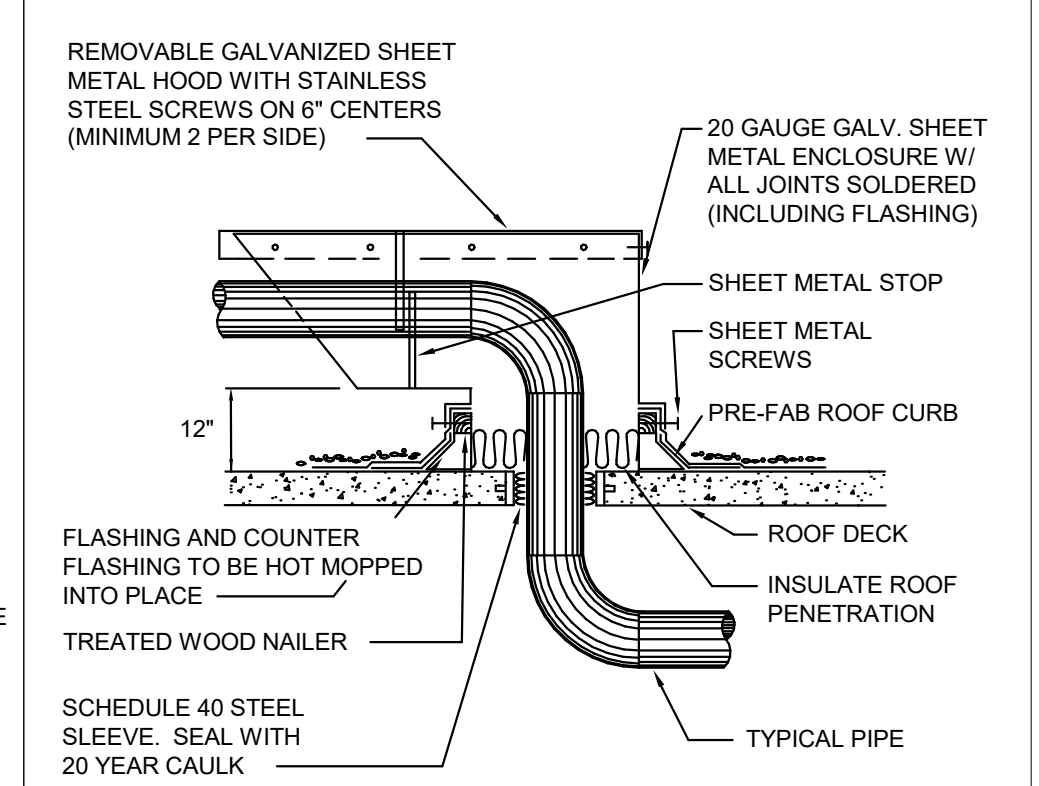
MECHANICAL DETAILS

JOB NO.	202415
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	JS
CKD. BY:	SR

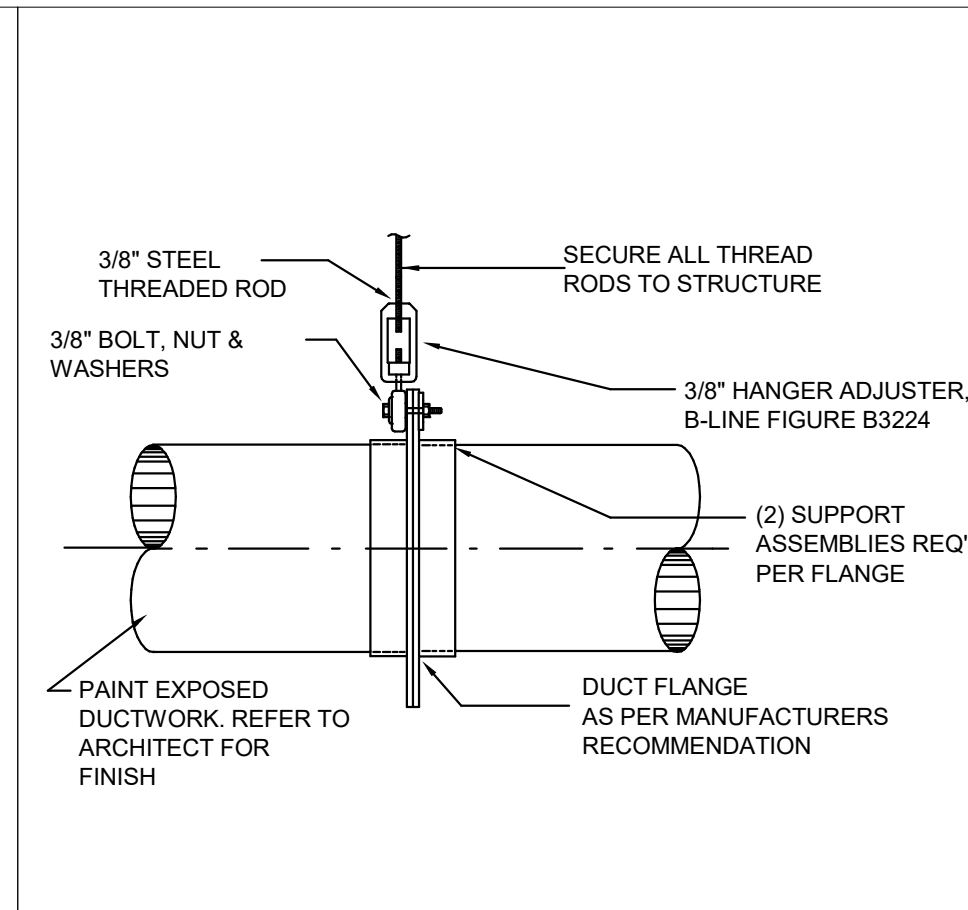
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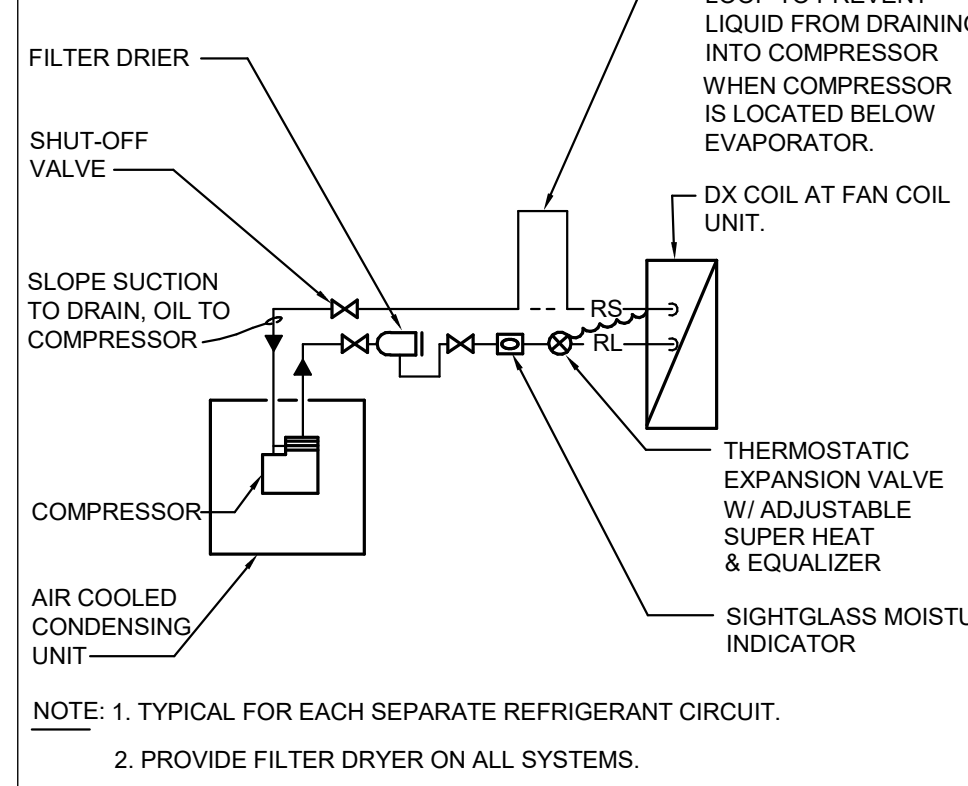
4 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE MARA200.DWG



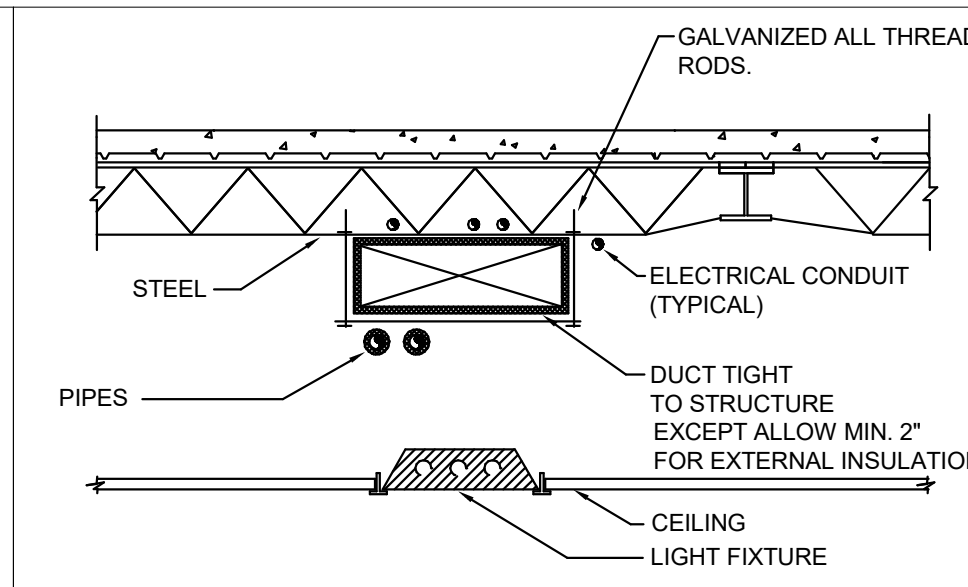
7 PIPING ROOF PENETRATION
NOT TO SCALE MPPE200.DWG



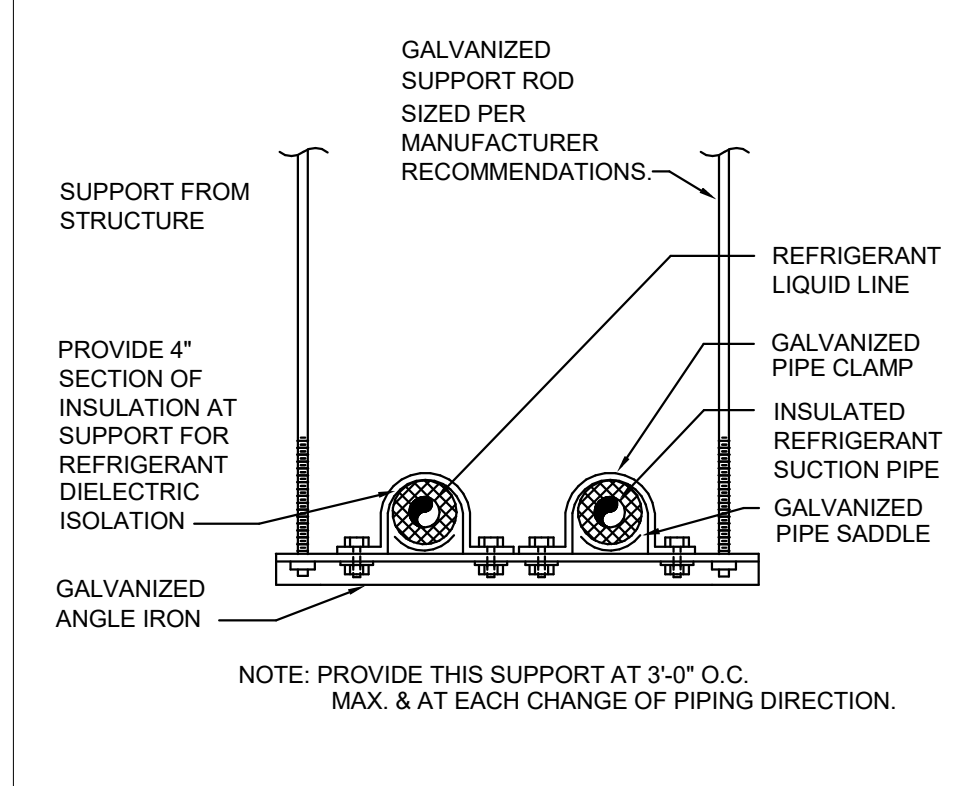
3 OVAL OR ROUND DUCT HANGER
NOT TO SCALE MAGD103.DWG



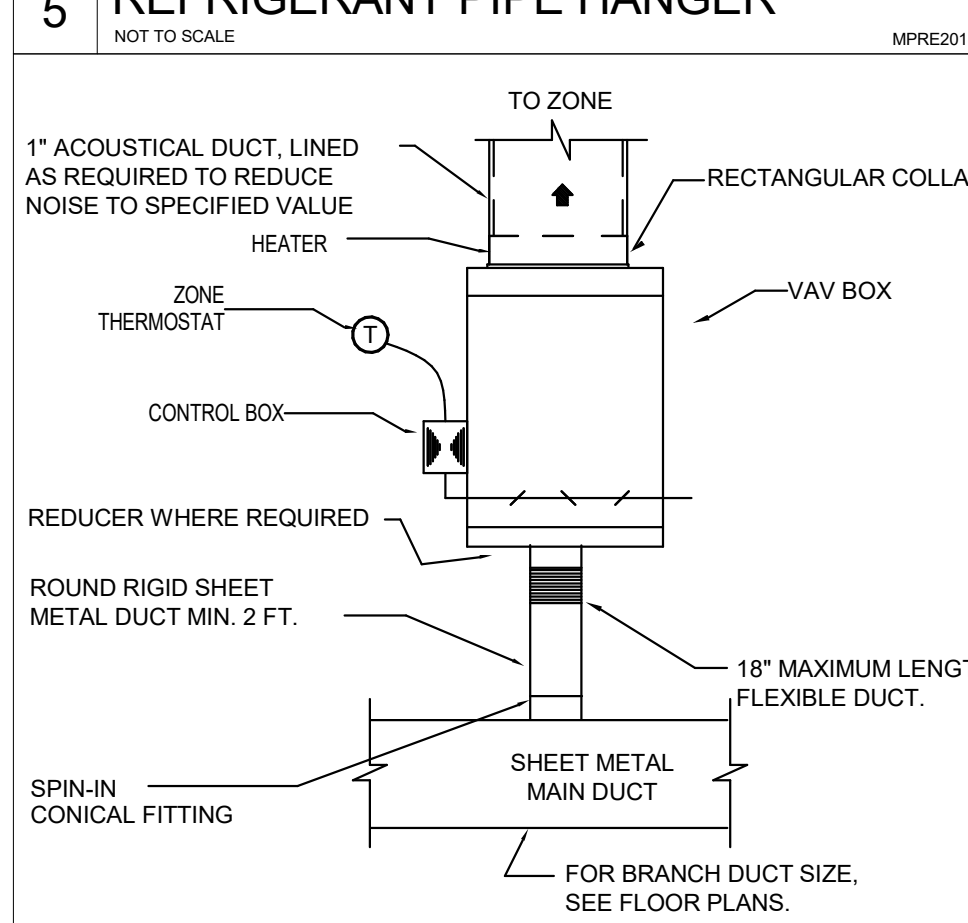
6 REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE MPPE100.DWG



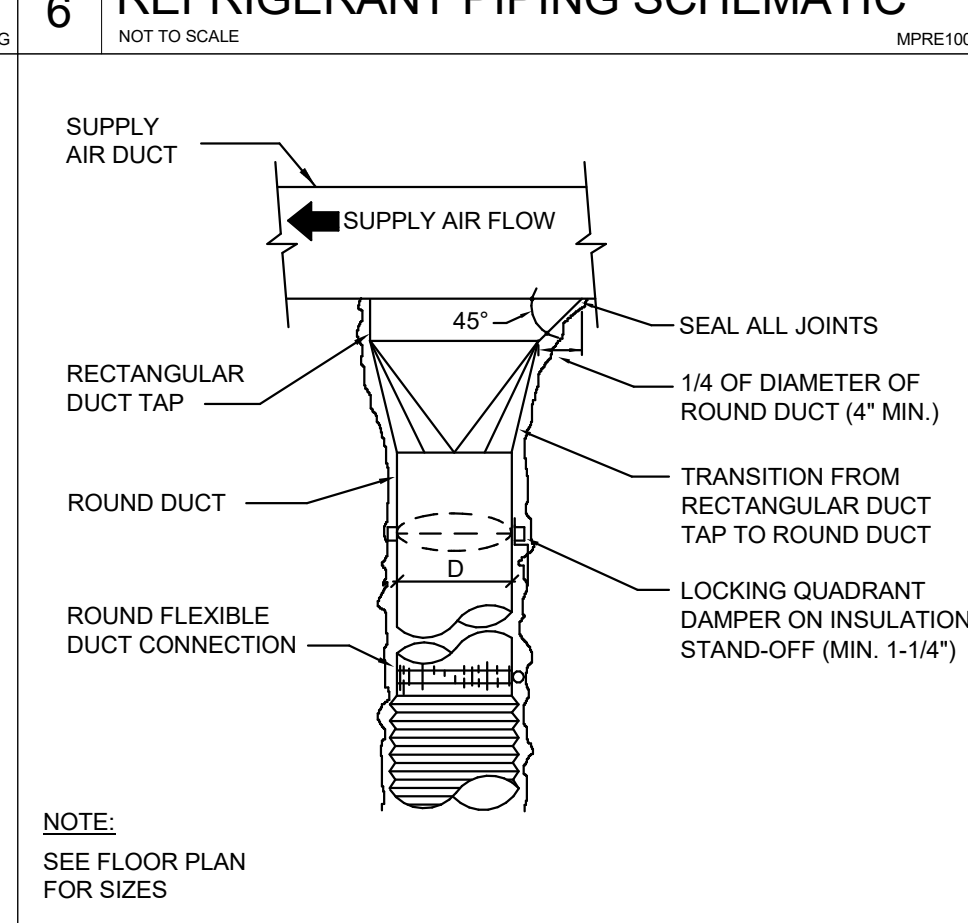
2 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE MAGD101.DWG



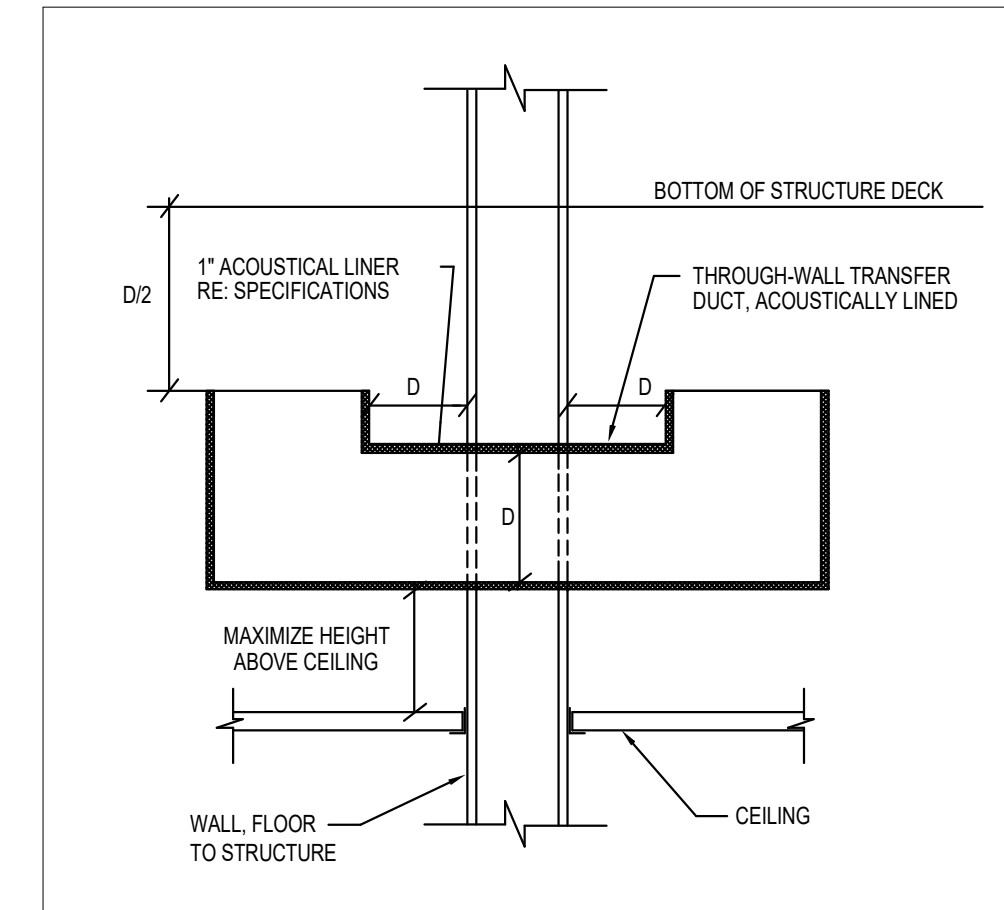
5 REFRIGERANT PIPE HANGER
NOT TO SCALE MPPE201.DWG



8 INTERIOR VAV UNIT DETAIL
NOT TO SCALE MEVT102.DWG



9 RECTANGULAR TAP TO ROUND TRANSITION
NOT TO SCALE MAGD302.DWG



1 RETURN AIR BOOT THRU WALL
NOT TO SCALE MARA.DWG

VARIABLE AIR VOLUME - TERMINAL UNIT (TYPICAL)

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
 - A 75°F (ADJ.) COOLING SETPOINT
 - A 70°F (ADJ.) HEATING SETPOINT
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
 - A 85°F (ADJ.) COOLING SETPOINT
 - A 55°F (ADJ.) HEATING SETPOINT

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.)
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.)

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

OCCUPIED:

- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.)
- WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

UNOCCUPIED:

- WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJ.)
- WHEN THE ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN ZONE TEMPERATURE IS LESS THAN ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE AUXILIARY HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

VARIABLE AIR VOLUME - RTU-1

EACH UNIT SHALL HAVE ITS OWN CONTROLLER AND SHALL BE PROGRAMMED FOR VAV OPERATION AS FOLLOWS.

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN BASED UPON AN OPERATOR ADJUSTABLE SCHEDULE.

HIGH STATIC SHUTDOWN:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL.

RETURN AIR SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS.

SUPPLY AIR SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

SUPPLY AIR DUCT STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE SPEED SHALL NOT DROP BELOW 30% (ADJ.) THE STATIC PRESSURE SETPOINT SHALL BE RESET BASED UPON THE POSITION OF THE ZONE DAMPERS, WITH A GOAL OF REDUCING THE STATIC PRESSURE UNTIL AT LEAST ONE ZONE DAMPER IS NEARLY WIDE OPEN.

- THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.5IN H2O (ADJ.)
- IF NO ZONE DAMPER IS NEARLY WIDE OPEN, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 1.15IN H2O (ADJ.)
- AS ONE OR MORE DAMPERS NEARS THE WIDE OPEN POSITION, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 1.8IN H2O (ADJ.)

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT
- LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT
- SUPPLY FAN VFD FAULT

SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING AND HEATING REQUIREMENTS

THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:

- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 52°F (ADJ.)
- AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 48°F (ADJ.)
- AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 59°F (ADJ.)

IF MORE ZONES NEED HEATING THAN COOLING, THEN THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR HEATING AS FOLLOWS:

- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 65°F (ADJ.)
- AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 75°F (ADJ.)
- AS HEATING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 60°F (ADJ.)

COOLING STAGES:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.)
- AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN
- AND THE SUPPLY FAN STATUS IS ON
- AND THE HEATING (IF PRESENT) IS NOT ACTIVE

ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

ELECTRIC HEATING WITH SCR:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE HEATING TO MAINTAIN ITS HEATING SETPOINT.

THE HEATING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.)
- AND THE SUPPLY FAN STATUS IS ON
- AND THE COOLING (IF PRESENT) IS NOT ACTIVE

ALARMS SHALL BE PROVIDED AS FOLLOWS:
LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.

MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE:
THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS.

THE OUTSIDE AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL MODULATE TO FULLY CLOSED.

MIXED AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR PREHEATING CONTROL (IF PRESENT).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.)
- LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.)

RETURN AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).

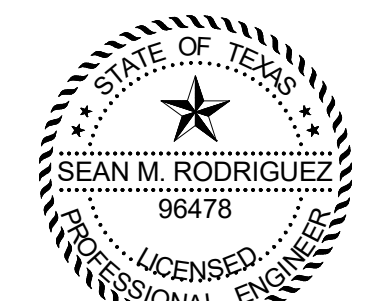
ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.)
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.)

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.)
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.)



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TEXAS ENGINEERING FIRM NO. 005318

THE WORK INCLUDES PROVIDING NEW DUCTWORK, DIFFUSERS, GRILLES, INSULATION, CONTROLS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM. THE WORK INCLUDES BUT IS NOT NECESSARY LIMITED TO THE FOLLOWING:

- INSTALL ROOFTOP UNITS AND ROOF CAPS.
 - INSTALL EXHAUST FANS.
 - SUPPLY & RETURN DUCTWORK SYSTEM WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
 - TEMPERATURE CONTROL SYSTEM INCLUDING LOW-VOLTAGE WIRING AND CONDUIT.
 - DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN.
 - ROOF CURBS, ROOFING AND FLASHING OF ROOF PENETRATIONS FOR EQUIPMENT NOTED.
 - FANS AND MAKE-UP AIR UNITS.
- SHOP DRAWINGS: SUBMIT 6 SETS OF EQUIPMENT/DUCT SUBMITTALS TO ARCHITECT/ENGINEER FOR APPROVAL.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION. SUCH AS DUCTWORK, EXHAUST FANS, SUPPLY AND RETURN DIFFUSERS, ETC. SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR.

- 1- LETTER OF GUARANTEE FROM THE CONTRACTOR.
- 2- MANUFACTURER'S PARTS DATA AND SERVICE INSTRUCTIONS ON ALL ITEMS OF EQUIPMENT.
- 3- MANUFACTURER'S GUARANTEES AND WARRANTIES.

INSTRUCTIONS TO THE OWNER: THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT. THE CONTRACTOR SHALL FURNISH TO THE OWNER ALL PAMPHLETS AND OTHER LITERATURE FURNISHED BY THE MANUFACTURER

AND EXPLAIN THE PROPER OPERATING AND MAINTENANCE PROCEDURES. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION. COORDINATE WITH THE WORK OF OTHER SECTIONS. EQUIPMENT FURNISHED BY OTHERS. REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE A ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR UNLINED SHEET METAL DUCTS.

SHEET METAL DUCTWORK: SHEETMETAL SHALL BE FABRICATED AND INSTALLED TO ASHRAE AND SMACNA STANDARDS. SHEETMETAL SHALL BE G-90 GALVANIZED SHEET STEEL OF LOCK-FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOORS SHALL BE AIRTIGHT WITH APPROVED WEATHERPROOF CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 33 DEGREES.

TRAPEZE DUCT HANGERS: MINIMUM 1" X 2" X 1" X 18" GAGE CHANNELS WITH 1" X 18" GAGE STRAPS TO STRUCTURAL SUPPORT ABOVE.

ALL SUPPLY AND RETURN DUCTWORK SHALL HAVE THE FIRST TEN (10) FEET INTERNALLY LINED. THE REMAINING DUCT SHALL BE EXTERNALLY WRAPPED.

DUCT WRAP/ASJ INSULATION: (ON ALL SUPPLY, RETURN, AND ROUND RIGID SHEETMETAL DUCTWORK); PROVIDE 2" THICK FIBERGLASS ASJ DUCTWRAP WITH VAPOR SEAL ON ALL SHEETMETAL DUCT. INSULATION SHALL HAVE AN INSTALLED R-VALUE OF 5 OR GREATER WITH A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING, JOHNS MANVILLE. INSULATION SHALL MEET THE LATEST ADOPTED IECC AND LOCAL AMENDMENTS.

ALL DUCT INDICATED AS LINED SHALL BE INTERNALLY INSULATED WITH OWENS CORNING FIBERGLASS AEROFLEX DUCT WRAP, 2" THICK, TYPE B-150 INSULATION SHALL HAVE AN INSTALLED R-VALUE OF 5 OR GREATER WITH A K VALUE OF 0.28. ACCEPTABLE MANUFACTURERS ARE KNAUF, OWENS CORNING, JOHNS MANVILLE. INSULATION SHALL MEET THE LATEST ADOPTED IECC AND LOCAL AMENDMENTS.

FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1-1/2" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER / VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 99A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.G. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. PROVIDE METAL ADJUSTABLE CAMPING DEVICES, SCREW OPERATED. USE TWISTLOCK CONICAL TAP COLLARS AT CONNECTIONS INTO SHEET METAL CUTWROK. DO NOT EXCEED 6 FEET IN LENGTH. FLEXMASTER 8M OR APPROVED EQUAL.

CEILING DIFFUSERS/RETURNS: INSTALL SUPPLY & RETURN DIFFUSERS/REGISTERS WITH DAMPER | SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

INSULATE REFRIGERANT SUCTION LINES WITH 1-1/2" CLOSED CELL FOAM PIPE INSULATION WITH SELF-ADHESIVE SEAMS. INSULATION SHALL BE EQUIVALENT TO ARMACELL AP ARMAFLEX.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

AUTOMATIC TEMPERATURE CONTROL: PROVIDE FOR EACH HVAC UNIT, LOW VOLTAGE SEVEN DAY PROGRAMMABLE THERMOSTAT, TRANE, CARRIER, OR HONEYWELL T7300. UNIT SHALL INCORPORATE TWO STAGE HEAT/COOL AS APPLICABLE WITH AN AUTO CHANGEOVER FEATURE. HEATING AND COOLING SET POINTS SHALL BE OPERATOR ADJUSTABLE (THERMOSTATS BY UNIT SUPPLIER). THERMOSTAT SHALL HAVE A NON-VOLATILE MEMORY WITH MINIMUM 24 HOUR MEMORY RETENTION, 5 DEGREE F DEADBAND, AND LCD DISPLAY. WIRING SHALL COMPLY WITH SECTION 16000 REQUIREMENTS. PROVIDE RELAYS AS REQUIRED FOR UNIT INTERFACE. PROVIDE ALL TEMPERATURE CONTROL WITING FOR ALL HVAC SYSTEMS, INCLUDING THERMOSTATS, SMOKE DETECTOR INTERLOCK ETC. INSTALL THERMOSTAT SAME HEIGHT AS LIGHT SWITCHES. COORDINATE FINAL LOCATION WITH ARCHITECT.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS.

CONTRACTOR TO PROVIDE TEST AND BALANCE NEBB CERTIFIED AIR BALANCE BY INDEPENDENT THIRD PARTY CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL HAVE ALL EQUIPMENT STARTED, ADJUSTED AND TESTED PRIOR TO BALANCING. MECHANICAL CONTRACTOR SHALL ALSO HAVE THEIR TECHNICIAN ON SITE DURING BALANCE TO ADJUST OR CORRECT EQUIPMENT OPERATION DURING BALANCE.

1. CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS AND PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.
2. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE THE CEILING TO MINIMIZE REQUIRED ACCESS.
3. VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK.
4. ALL EQUIPMENT (RECEPTACLES, DISC, SWITCHES, ETC.) SHALL BE WEATHERPROOF.
5. ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN-R OR ROUAL BY GOULD SHAWMUT.
6. ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
7. REFER TO HVAC DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING FANS, MOTORS, ETC. AS INDICATED ON THE HVAC DRAWINGS.
8. ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
9. ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.

GENERAL ENERGY NOTES

THERMOSTATIC CONTROLS MUST HAVE A 5deg DEADBAND OR HAVE MANUAL CHANGEOVER BETWEEN HEATING AND COOLING.

PROVIDE AUTOMATIC CONTROLS: SETBACK TO 55degF (HEAT) AND 85degF (COOL); 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP IN THE EVENT OF A POWER LOSS.

OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE PROVIDED WITH AUTOMATIC MEANS TO REDUCE AND SHUT OFF AIRFLOW WITH THE EXCEPTION FOR SYSTEM DESIGNED FOR CONTINUOUS OPERATION OR SYSTEM WITH AN FLOW RATE LESS THAN 3,000 CFM. SYSTEMS WITH READILY ACCESSIBLE MANUAL DAMPERS, OR RESTRICTED BY HEALTH AND LIFE SAFETY CODES.

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL181-A OR UL181-B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEMS SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT OF ANY METAL DUCTS.

INSULATION SHALL BE PROVIDED FOR PIPING AS NOTED IN THE TABLE BELOW. PIPING INSULATION SHALL BE PROVIDED FOR RETURN CIRCULATION HOT WATER SYSTEM WITH 1" OR R-4 INSULATION. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT W/O INTERGRAL HEAT TRAPS SHALL BE INSULATED WITH 5" OR R-4 INSULATION.

WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AS ASSOCIATED WITH THE EQUIPMENT.

AUTOMATIC CIRCULATING HOT WATER SYSTEMS OR HEAT TRACE SHALL HAVE TIME SWITCHES THAT ARE CAPABLE OF BEING SET TO TURN OFF THE SYSTEM.

MINIMUM PIPE INSULATION (INCH)		
	NOMINAL PIPE DIA.	
FLUID	≤ 1.5"	> 1.5"
STEAM	1 - 1/2	3 - 1/2
HOT WATER	1	1 - 1/2
CHILL WATER OR REFRIGERANT	1	1

MINIMUM DUCT INSULATION (R)	
UNCONDITIONED SPACE	≥ 5
OUTSIDE BLDG. ENVELOPE	≥ 8
EXCEPTIONS: 1. WHEN LOCATED WITHIN EQUIPMENT. 2. WHEN DESIGN TEMP. DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15 FT.	

MECHANICAL NARRATIVE

THE HVAC SYSTEM CONSISTS OF (2) EXISTING RTUs AND (1) NEW MINI SPLIT SYSTEM. CONTRACTOR TO VERIFY CONDITION PRIOR TO START OF WORK. CONTRACTOR TO CONVERT RTU-1 TO VAV CONTROLS. INSTALL NEW DUCTS, SPLIT SYSTEMS, AND VAV BOXES AS SPECIFIED IN CONTRACT DOCUMENTS. CONNECT ALL EQUIPMENT TO JOHNSON CONTROLS FX SYSTEM. PROVIDE ALL PROGRAMMING, GRAPHICS, SENSORS, THERMOSTATS, VAV AND UNITARY CONTROLLERS FOR COMPLETE OPERATION.

EACH UNIT SHALL BE PROVIDED WITH THEIR OWN WALL MOUNTED THERMOSTAT FOR CONTROLLING TEMPERATURE IN THE SPACE.

REFER TO THE MECHANICAL ENERGY NOTES FOR COMPLIANCE REQUIREMENTS WITH IECC 2015. SEE THE HVAC DESIGN CRITERIA ON THIS SHEET AS REQUIRED BY THE 2015 IECC.

THE MECHANICAL CONTRACTOR SHALL REVIEW THE SYSTEM COMMISSIONING SPECIFICATION ON THIS SHEET FOR REQUIREMENTS AND PARTICIPATION IN THE COMMISSIONING PROCESS. FAILURE TO COMPLY OR PARTICIPATE MAY INCUR ADDITIONAL COST TO THE CONTRACTOR.

SYSTEMS START-UP REQUIREMENTS

CONTRACTOR SHALL PROVIDE AN EQUIPMENT OPERATION CHECK (EOC). EOC TO PROVIDE VERIFICATION AND DOCUMENTATION OF EQUIPMENT CONDITION, INTEGRITY OF INSTALLATION AND OPERATIONAL PERFORMANCE WITH REGARD TO THE SPECIFICATIONS. IT SHALL ALSO INCLUDE ALL ASSOCIATED COMPONENTS PROVIDED BY MANUFACTURER. THE FOLLOWING EQUIPMENT AND INSTALLATION INTEGRITY CHECKS SHALL BE PERFORMED AS PART OF AN EOC. ANY INSTALLER DEFECTS SHALL BE NOTED AND ANY FACTORY DEFECTS SHALL BE REPAIRED. A REPORT FOR EACH UNIT ALONG WITH A SUMMARY REPORT FOR THE JOB SITE WILL BE PROVIDED TO THE OWNER AND ENGINEER UPON COMPLETION.

JOB SITE REQUIREMENTS PRIOR TO EOC:

- A. COMPLETE INSTALLATION OF ROOFTOP UNIT PER MECHANICAL DRAWINGS, SPECIFICATIONS AND THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B. ROOFTOP UNIT MUST BE STARTED UP AND RUNNING 24 HOURS PRIOR TO EOC.
- C. UNIT'S RETURN AIR FILTERS MUST BE NEW AND AT LEAST EQUIVALENT TO FACTORY PROVIDED FILTERS.
- D. ALL FIELD INSTALLED HOODS ACCESSORIES MUST BE INSTALLED AND OPERATIONAL.

1. UNIT INSTALLATION CHECK:

- A. RECORD RTU #, UNIT CN, UNIT MODEL #, AND UNIT SERIAL #.
- B. CHECK CURB INSTALLATION INCLUDING VIBRATION ISOLATION AND WIND OR SEISMIC RESTRAINTS. VERIFY PER OWNER SPECIFICATIONS AND THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- C. CHECK UNIT CLEARANCES AND VERIFY INSTALLATION PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- D. CHECK DOOR ALIGNMENT AND ADJUST AS NECESSARY.
- E. CHECK UNIT INSTALLATION IS SECURE AND CLEAN.
- F. CHECK INSTALLATION OF CONDENSATE TRAP AND DRAIN LINES PER THE PROJECT SPECIFICATIONS. DRAWING DETAILS AND ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTION.
- G. CHECK AND NOTE INSTALLATION OF ANY ROOFTOP UNIT MANUFACTURER'S PROVIDED ACCESSORIES PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- H. CHECK CLEANLINESS OF UNIT AND AREA AROUND IT. DISPOSE OF ANY DEBRIS FOUND.

2. ELECTRICAL SYSTEM CHECK:

- A. CHECK AND RECORD INCOMING POWER SUPPLY. VERIFY PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS AND RECORD.
- B. VERIFY INSTALLATION AND PROPER SIZING OF ELECTRICAL DISCONNECT OR CIRCUIT BREAKER INCLUDING WIRE SIZE.
- C. CHECK ELECTRICAL CONNECTIONS AND TIGHTEN AS NEEDED.
- D. VERIFY INSTALLATION OF WIRINT TO 120V CONVENIENCE OUTLET (IF APPLICABLE).
- E. CHECK AND RECORD UNIT'S CONTROL TRANSFORMER(S) SECONDARY VOLTAGE. ADJUST PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.

3. INTEGRATED MODULAR CONTROLLER CHECK:

- A. VERIFY LED HEARTBEAT ON ALL THE ROOFTOP UNIT MANUFACTURER'S PROVIDED CONTROL BOARDS.
- B. RECORD HARDWARE AND SOFTWARE VERSIONS OF ALL PROVIDED CONTROL BOARDS.
- C. VERIFY DIP SWITCHES ON ALL CONTROL BOARDS ARE SET FOR OWNER SPECIFICATIONS PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- D. VERIFY ALL THE ROOFTOP UNIT MANUFACTURER'S PROVIDED TEMPERATURE SENSORS READINGS ARE ACCURATE.

4. SUPPLY FAN SYSTEM CHECK:

- A. CHECK BLOWER PULLEY SEY SCREWS FOR PROPER TORQUE. ADJUST AS NEEDED.
- B. CHECK BELT TENSION AND ALIGNMENT AND ADJUST AS NEEDED.
- C. START UNIT INDOOR BLOWER TO CHECK ROTATION CORRECT AS NEEDED. VERIFY AND DRAW IS PER THE ROOFTOP UNIT MANUFACTURERS SPECIFICATIONS AND RECORD.

5. COOLING SYSTEM CHECK:

- A. LEAK CHECK ALL CIRCUITS.
- B. CHECK COIL INTEGRITY AND CLEANLINESS. CLEAN AS NEEDED.
- C. START EACH COMPRESSOR IN UNIT. CONFIRM PROPER ROTATION AND CORRECT AS NEEDED.
- D. CHECK REFRIGERANT PRESSURES OF EACH CIRCUIT PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATION. CORRECT CHARGE AS NEEDED.
- E. RECORD TEMPERATURE DROP ACROSS THE EVAPORATOR COIL IN FULL COOLING (ALL COMPRESSOR RUNNING).

SIGNATURE: _____ DATE: _____
PLEASE DATE AND INITIAL EACH ITEM AS VERIFIED. COMPLETED VERIFICATION CHECK LIST IS INCLUDED IN OUR REPORT TO THE OWNER AND MUST BE RETURNED PRIOR TO SCHEDULING ARRIVAL OF HVAC SYSTEMS TEST DATE. PLEASE FAX TO THE ITC UPON COMPLETION.

THE HVAC INSTALLER IS REQUIRED TO BE ON SITE FOR THE TWO (2) DAYS THAT THE ITC IS PERFORMING THEIR WORK IN ORDER TO CORRECT ANY PUNCH LIST ITEMS THAT MAY EXIST. SHOULD RETURN TRIPS BECOME NECESSARY AFTER THE INITIAL TWO (2) DAYS, ANY RETEST COST INCURRED BY THE ITC SHALL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ESTIMATED COST IS \$1,000.00 PER DAY.

_ END OF SECTION _

6. GAS HEATING SYSTEM (WHEN SPECIFIED):

- A. RECORD FUEL TYPE.
- B. CHECK INSTALLATION OF INTAKE AND EXHAUST HOODS. VERIFY PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- C. CHECK INSTALLATION OF GAS UNIONS.
- D. CHECK AND RECORD INCOMING GAS PRESSURE TO UNIT.
- E. CHECK MANIFOLD GAS PRESSURE FROM THE OUTLET OF THE BAS VALVE(S) PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS. ADJUST AS NECESSARY.
- F. CHECK AND RECORD TEMPERATURE RISE ACROSS HEAT EXCHANGER IN FULL HEAT.
- G. CHECK OPERATION OF TEMPERATURE LIMIT.

7. ELECTRICAL HEAT SYSTEM CHECK: (WHEN SPECIFIED):

- A. CHECK AND RECORD AMP DRAW OF THE HEATING ELEMENTS.
- B. CHECK HEATING SECTION OPERATION. RECORD TEMPERATURE RISE THRU UNIT IN FULL HEATING OPERATION PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.
- C. CHECK OPERATION OF TEMPERATURE LIMIT.
- D. VERIFY CO² SENSORS ARE OPERATIONAL.
- E. PERFORM COOLING SIMULATION TEST. VERIFY COOLING STAGES PER OWNER'S SPECIFICATIONS.
- F. PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.
- G. PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.

8. THERMOSTAT/ UNIT CONTROLS SYSTEM CHECK:

- A. RECORD THERMOSTAT OR DDC SYSTEM MAKE, MODEL AND SERIAL NUMBER.
- B. VERIFY CLASS 2 CONTROLS WIRING INSTALLATION TO TERMINAL BOARD OF UNIT.
- C. VERIFY THAT REMOTE SENSORS ARE OPERATIONAL.
- D. VERIFY CO² SENSORS ARE OPERATIONAL.
- E. PERFORM COOLING SIMULATION TEST. VERIFY COOLING STAGES PER OWNER'S SPECIFICATIONS.
- F. PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.
- G. PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.

9. INDOOR AIR QUALITY SYSTEM CHECK:

- A. CHECK AND RECORD CONDITION AND TYPE OF FILTERS.

10. OUTDOOR AIR ACCESSORY CHECK:

- A. CHECK OPERATION OF ECONOMIZER OR MOTORIZED OUTDOOR AIR DAMPER BY DRIVING IT FULL OPEN AND CLOSED.
- B. RECORD MINIMUM DAMPER POSITION AND ENTHALPY SETTING (IF PROVIDED).
- C. CHECK ECONOMIZER CONTROL BOARD SETTINGS PER OWNER SPECIFICATIONS. RECORD SETTING.
- D. CHECK OPERATION OF BAROMETRIC RELIEF DAMPER IF INSTALLED.
- E. CHECK OPERATION OF POWER EXHAUST IF INSTALLED. CHECK MOTOR AMP DRAW PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

11. CONTROL CHECK:

- A. VERIFY COMPLETE INSTALLATION/OPERATION OF ALL THERMOSTATS AND TIME CLOCKS IF UTILIZED.
- B. VERIFY COMPLETE INSTALLATION/OPERATION OF SMOKE DETECTOR/FIRE ALARM INTERFACE.

12. DUCT SYSTEMS AND AIR DISTRIBUTION:

- A. VERIFY INSTALLATION CONFORMS TO DESIGN AND ALL PIECES OF AIR DISTRIBUTION, DUCTWORK, DIFFUSERS, AND GRILLES ARE COMPLETE AND PROPERLY INSTALLED.
- B. VERIFY ALL MANUAL VOLUME DAMPERS ARE IN FULL OPEN OR NEUTRAL POSITION.

13. EXHAUST FAN(S):

- A. VERIFY PROPER INSTALLATION/OPERATION AND FAN ROTATION.

01/24/2025



REVISIONS	
DATE	DESCRIPTION

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

MECHANICAL SPECIFICATIONS

JOB NO.	202415
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	JS
CKD. BY:	SR

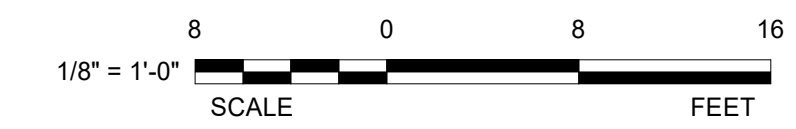
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CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO. 005318

01/24/2025

24169

SHEET NUMBER

M600



FOR REVIEW ONLY
NOT INTENDED
FOR CONSTRUCTION
OR REGULATORY
APPROVAL

02/04/2025

clk
architects & associates

615 N. Upper Broadway
Suite 1250
Corpus Christi, TX
78401-0750

ELECTRICAL DEMOLITION GENERAL NOTES:

- A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD SO HE OR SHE WILL HAVE OBTAINED THE SCOPE OF WORK. THE ELECTRICAL WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.
- B. WHEN OUTLETS ARE REMOVED, CONDUIT AND WIRE SHALL BE REMOVED BACK TO THE NEAREST REMAINING ACTIVE J-BOX OR PANEL.
- C. RECONNECT ALL LIGHTS THAT MAY HAVE BEEN INTERRUPTED BECAUSE OF REMODELING WORK.
- D. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE, OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.
- E. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
- F. REMOVE ALL OUTLETS AND WIRING ASSOCIATED WITH ALL EQUIPMENT BEING REMOVED, INCLUDING MECHANICAL AND PLUMBING EQUIPMENT.

NOT ALL DEVICES, EQUIPMENT AND LIGHTING IS INDICATED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND INCLUDE IN HIS OR HER BID A FULL DEMOLITION SCOPE OF WORK.

ELECTRICAL DEMOLITION KEY NOTES:

- 1 REMOVE EXISTING LIGHT FIXTURE. REFER TO SHEET E100 FOR NEW LIGHTING LAYOUT.
- 2 EXISTING EXIT/EMERGENCY FIXTURE TO REMAIN IN PLACE.
- 3 REMOVE ANY EXISTING RECEPTACLES OR DATA ON WALL. REFER TO SHEET E200 FOR ADDITIONAL INFORMATION.
- 4 EXISTING FIRE ALARM DEVICE TO BE REMOVED. REFER TO SHEET E300 FOR NEW LAYOUT.
- 5 EXISTING FIRE ALARM DEVICE TO REMAIN.
- 6 EXISTING ELECTRICAL GEAR TO REMAIN.
- 7 EXISTING LIGHT FIXTURE TO REMAIN. REFER TO ELECTRICAL LIGHTING PLAN E100 FOR ADDITIONAL INFORMATION.
- 8 EXISTING EXTERIOR LIGHTING FIXTURE TO BE REPLACED WITH NEW LED FIXTURE PER ALTERNATE #3. REFER TO LIGHTING PLAN, E100 AND LIGHTING SCHEDULE.
- 9 EXISTING JBOX FOR BUILDING SIGN TO REMAIN.
- 10 EXISTING FIRE ALARM AND DEVICES TO BE RELOCATED PER ALTERNATE #1. REFER TO SPECIAL SYSTEMS PLAN, E300 FOR APPROXIMATE LOCATION.
- 11 EXISTING CARD READER AND ELECTRONIC STRIKE TO BE REMOVED AND RELOCATED. REFER TO SPECIAL SYSTEMS PLAN, E300 FOR APPROXIMATE LOCATION.
- 12 EXISTING CANOPY LIGHTING FIXTURES TO BE REPLACED BY NEW FIXTURES PER ALTERNATE #2. REFER TO LIGHTING PLAN, E100 FOR ADDITIONAL REQUIREMENTS. MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROLS.
- 13 REMOVE EXISTING RECEPTACLE AND ANY OTHER DEVICES FROM DEMOED WALL. ROUTE CONDUCTORS TO NEAREST JBOX OR CLOSES DEVICE.
- 14 EXISTING CAMERA TO BE RELOCATED PER ALTERNATE #2. REFER TO SPECIAL SYSTEMS PLAN E300 FOR ADDITIONAL INFORMATION.
- 15 EXISTING RTUs TO BE DEMOLISHED AND REPLACED PER ALTERNATE #1. ALL EXISTING CABLING, CONDUIT AND DISCONNECT SWITCHES TO BE REUSED IF HAVING ACCEPTABLE RATINGS PER MANUFACTURER RECOMMENDATIONS. FIELD VERIFY ALL ASSOCIATED ELECTRICAL ITEMS FOR EACH RTU.
- 16 RTU-1 TO HAVE EXISTING 40A/3P BREAKER. REPLACED BY A 30A/3P BREAKER ON PANEL MDP PER MANUFACTURERS RECOMMENDATIONS. FIELD VERIFY EXISTING CONDITIONS.

REVISIONS		
MARK	DESCRIPTION	DATE
1	PREBID ADDENDUM 01	02/04/25

**WORKFORCE SOLUTIONS
PHASE III RENOVATION**
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

ELECTRICAL DEMOLITION PLAN

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JOB NO.	202217
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	02/04/2025
DRN. BY:	CEG
CKD. BY:	JAR

SHEET NUMBER
E001

John A. Rodriguez III

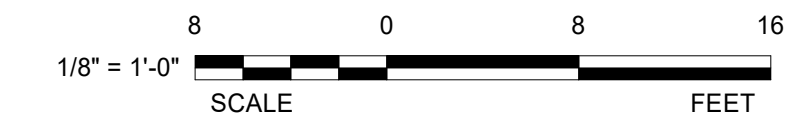
02/04/2025

NRG ENGINEERING
5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO. 005318

24169



1 ELECTRICAL LIGHTING DEMO PLAN
1/8" = 1'-0"



ELECTRICAL GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATIONAL ELECTRICAL CODE.
- F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS, WHERE APPLICABLE.
- H. REFER TO #1E500 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO ROUGH-IN.

ELECTRICAL LIGHTING KEY NOTES:

- 1 EXISTING LIGHTING FIXTURE TO REMAIN, RECIRCUIT BACK TO NEW LIGHTING CIRCUIT.
- 2 FIXTURE 'A8-EM' SHALL HAVE 2" SECTION WITH BATTERY BACKUP TOWARDS THE EGRESS PATH.
- 3 EXISTING LIGHTING FIXTURE TO BE REPLACED, RE-CIRCUIT TO EXISTING CIRCUIT AND LIGHTING CONTROL, PER ALTERNATE #3.
- 4 NEW DOWNLIGHTS FOR CANOPY PER ALTERNATE #2, RECIRCUIT TO EXISTING/PREVIOUS CANOPY LIGHTING CIRCUIT. MAINTAIN EXISTING CONTROLS.

OCCUPANCY SENSOR SCHEDULE (SOME MAY NOT BE USED)	
PP	SENSORSWITCH POWER PACK #PP20
\$S08	SENSORSWITCH #WSX-SA-CBA
\$S09	SENSORSWITCH #WSX-PDT-SA-CBA
\$S0P	SENSORSWITCH #WSX-2P-FAN-CBA
\$S0	0-10V DIMMER SWITCH
\$S0A	SENSORSWITCH #SPODM-SA-CBA
\$S0AZ	SENSORSWITCH #SPODM-2P2SA-CBA
\$S0AD	SENSORSWITCH #SPODM-SA-D-CBA
\$S0AZD	SENSORSWITCH #SPODM-2P2SA-D-CBA
OS 1	SENSORSWITCH #CM9
OS 2	SENSORSWITCH #CM9-PDT
OS 3	SENSORSWITCH #WV-PDT-16-WVBR

WHERE MULTIPLE OCCUPANCY SENSORS ARE INDICATED CIRCUITED TOGETHER TO ONE POWER PACK OR SET OF POWER PACKS. ACTIVATION OF ANY ONE SENSOR SHALL ENERGIZE POWER PACK (CLOSE RELAY).
CBA = STANDARD COLOR BY ARCHITECT

CIRCUIT EXIT SIGNS & EMERGENCY LIGHTS (IF APPLICABLE) TO UNSWITCHED SIDE OF LIGHTING CIRCUIT SERVING AREA IN WHICH LOCATED. TYPICAL ALL EMERGENCY BATTERY PACKS SHALL BE CIRCUITED TO UNSWITCHED SIDE OF CIRCUIT INDICATED.

SENSOR LAYOUT IS BASED ON ACUITY COVERAGE PATTERNS. ADJUST QUANTITIES AND LOCATIONS FOR APPROVED SUBSTITUTION.

ALL SENSORS SHALL BE LINE VOLTAGE, WITH PROVIDED HOT, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED. PROVIDE COPIES OF SENSOR OPERATION INSTRUCTIONS TO OWNER.

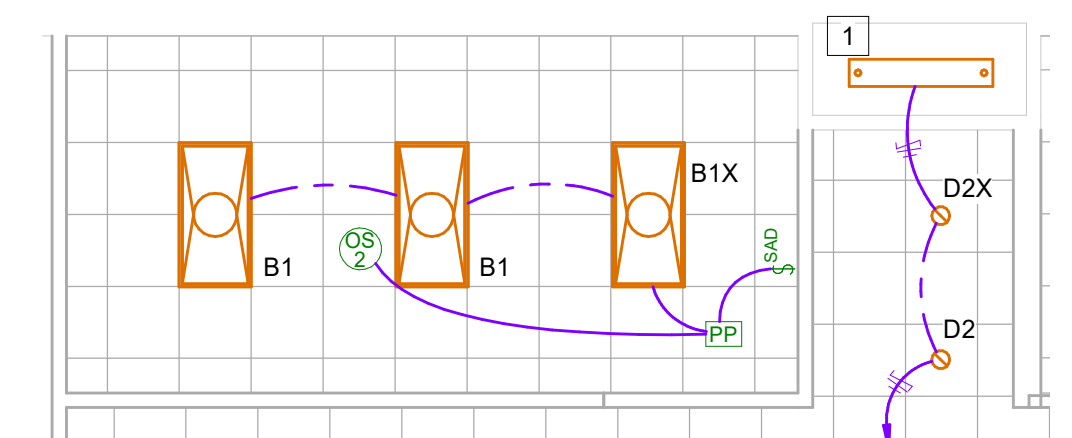
SET TIME DELAY TO 15-20 MINUTES FOR ALL OCCUPANCY SENSORS. SINGLE RELAY WALL SWITCH AND CIELING MOUNTED SENSORS TO BE SET TO MANUAL ON, AUTO OFF. REST ROOMS AND CORRIDORS SET THE SENSORS TO AUTO ON/AUTO OFF. DUAL RELAY WALL SWITCH SHALL BE SET TO MANUAL ON MODE RELAY 1, AUTO ON RELAY 2.

01/24/2025

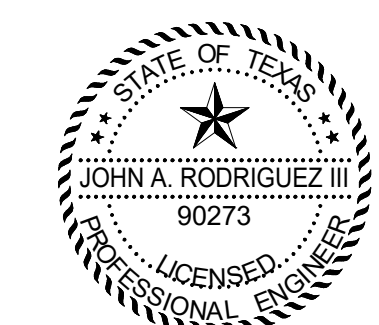
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REVISIONS	
DATE	DESCRIPTION

WORKFORCE SOLUTIONS
PHASE III RENOVATION
 4981 AYERS STREET
 CORPUS CHRISTI, TX 78415
ELECTRICAL LIGHTING PLAN



ELECTRICAL LIGHTING PLAN NEW -
ALTERNATE #1
3/16" = 1'-0"



John A. Rodriguez III
01/24/2025

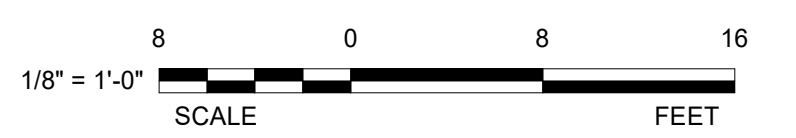
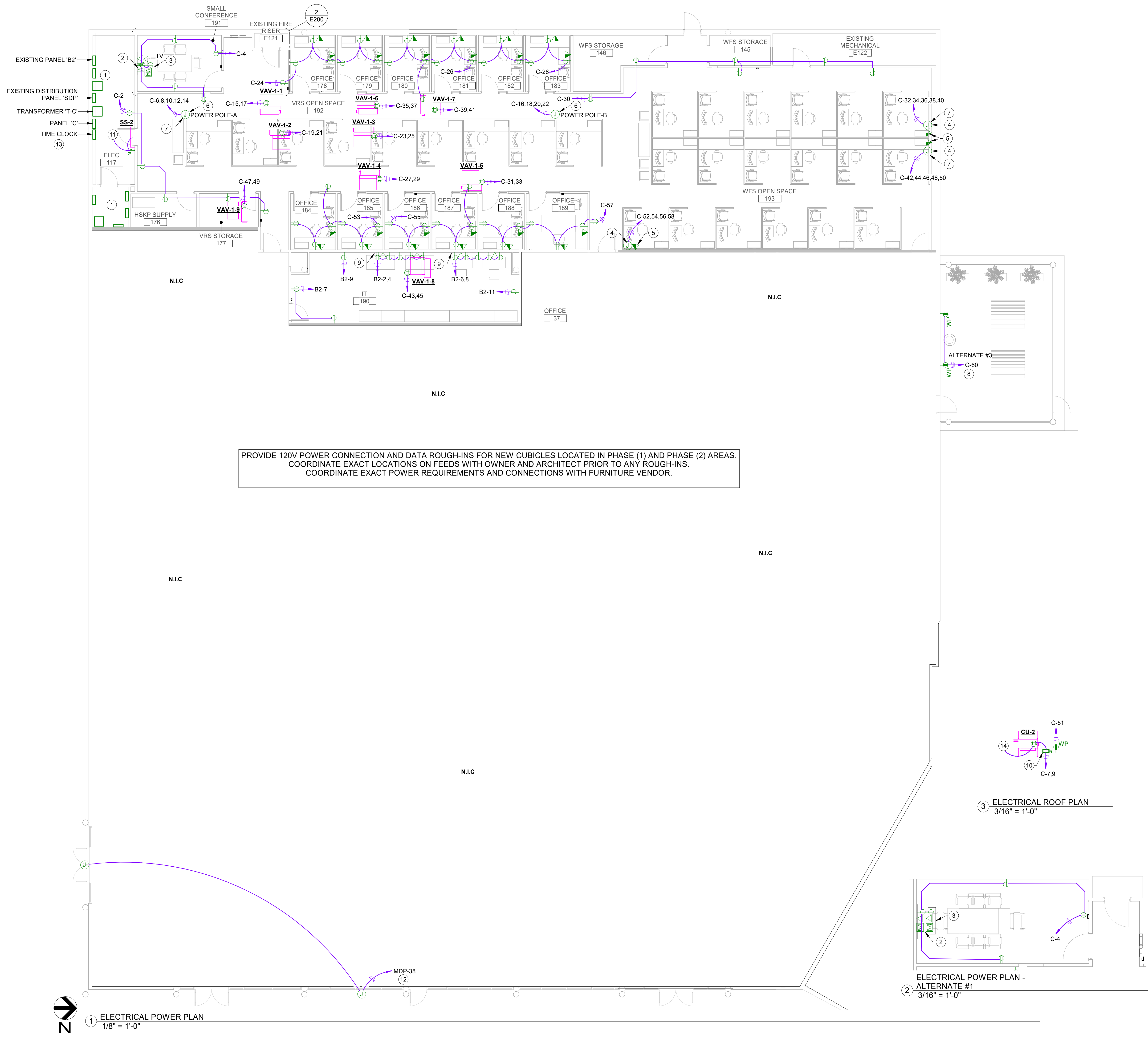
5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO. 005318

24169

JOB NO.	202415
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	CEG
CKD. BY:	JAR

SHEET NUMBER
E100

1 ELECTRICAL LIGHTING PLAN NEW
1/8" = 1'-0"



ELECTRICAL GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATION ELECTRICAL CODE.
- F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS, WHERE APPLICABLE.
- H. REFER TO #1/E500 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO ROUGH-IN.

ELECTRICAL POWER KEY NOTES:

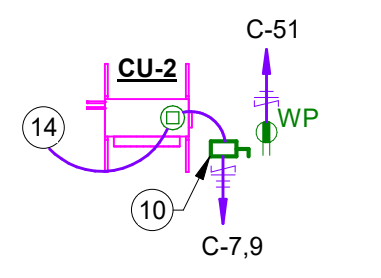
- 1 EXISTING ELECTRICAL GEAR TO REMAIN.
- 2 PROVIDE 1-1/2" CONDUIT FROM TV AND A/V ROUGH-IN. LOWEST BOX SHALL BE 18" AFF.
- 3 PROVIDE CHIEF DISPLAY BACK BOX #PAC525FW. BACK BOX SHALL HAVE (1) RECEPTACLE (1) 1" FOR DATA AND (1) 1" FOR HDMI TOWARDS FLOOR BOX. MOUNT BACK BOX 72" AFF. REFERENCE ARCHITECTURAL DRAWINGS FOR TV MOUNTING HIGHT.
- 4 PROVIDE FACE PLATE WITH FURNITURE FEED CONNECTION TO SYSTEMS FURNITURE. COORDINATE EXACT ELECTRICAL POWER REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO INSTALLATION.
- 5 PROVIDE (1) 2" CONDUIT STUB-UP FOR FURNITURE STATION DATA WHIP. COORDINATE EXACT DATA REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO INSTALLATION.
- 6 PROVIDE J-BOX ABOVE ACCESSIBLE CEILING FOR FURNITURE POWER POLE FEED. COORDINATE EXACT ELECTRICAL POWER REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO INSTALLATION. ONE CIRCUIT SHALL BE AN ISOLATED/DEDICATED CIRCUIT. REFER TO DETAIL #6 ON SHEET E500 FOR ADDITIONAL INFORMATION.
- 7 PROVIDE 120V POWER AND DATA FOR VRS PRINTER. RUN CIRCUIT C-XX THROUGH POWER POLE INDICATED.
- 8 RECEPTACLES W/WEATHER PROOF BOX TO BE SURFACE MOUNTED 48" AFF. ROUTE CONDUIT TOWARDS PHASE III EXTERIOR WALL. PENETRATE WITH LB CONDUIT BODY INTO SPACE. PER ALTERNATE #3.
- 9 PROVIDE 10' ALUMINUM RACEWAY #HBLALU4800 WITH (5) PRE-WIRED RECEPTACLES ON THE TOP CHANNEL EVENLY SPACED AND (2) DATA PLATES WITH 4-PORTS EACH IN BETWEEN THE RECEPTACLES ON THE BOTTOM CHANNEL. REFER TO DETAIL #7 ON SHEET E500 FOR ADDITIONAL INFORMATION. RACEWAY SHALL HAVE (2) 20A CIRCUITS.
- 10 PROVIDE 30A/2P/NF/NEMA-3R DISCONNECT SWITCH. REFERENCE MOUNTING DETAIL #4 ON SHEET E500.
- 11 INTERCONNECT TO CORRESPONDING CONDENSOR UNIT LOCATED ON ROOF. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
- 12 ROUTE CIRCUIT THROUGH TIME CLOCK.
- 13 PROVIDE 2-CHANNEL ASTRONOMICAL TIME CLOCK ADJACENT TO PANEL 'C' FOR BUILDING SIGN CONTROLS. PROVIDE MINIMUM OF 4 CONTACTS. TIME CLOCK SHALL OPERATE FROM DUSK TO DAWN. COORDINATE TIME SCHEDULE WITH OWNER. CIRCUIT TO C-59.
- 14 INTERCONNECT TO CORRESPONDING UNIT LOCATED IN ELECTRICAL ROOM 117. REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.

ALL DATA CABLING, AUDIO/VISUAL SYSTEMS, ACCESS CONTROL DEVICES, SECURITY AND SECURITY CAMERA SYSTEMS SHALL BE PROVIDED AND INSTALLED BY OWNER. COORDINATE WITH OWNER'S VENDOR FOR ALL ROUGH-INS. FIRE ALARM DEVICES SHALL BE PROVIDED BY CONTRACTOR.

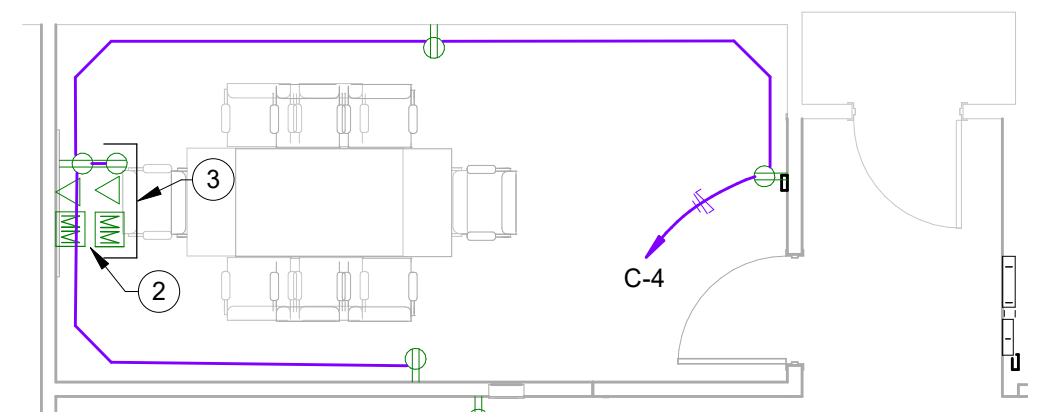
RECEPTACLES WITHIN THE BUISNESS OFFICES, AND CORRIDORS SHALL BE TAMPER-RESISTANT PER NEC 406.12

COORDINATE EXACT LOCATION OF FURNITURE POWER FEED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.

ALL SINGLE DUCT TERMINAL UNITS (VAVs) SHALL HAVE INTEGRATED DISCONNECT SWITCH, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION



3 ELECTRICAL ROOF PLAN 3/16" = 1'-0"



2 ELECTRICAL POWER PLAN - ALTERNATE #1 3/16" = 1'-0"

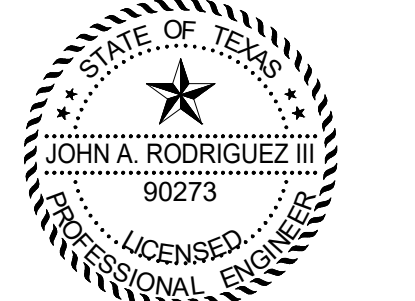
01/24/2025

clk
architects & associates
615 N. Upper Broadway
Suite 1250
Corpus Christi, TX
78401-0750

REVISIONS	
DATE	DESCRIPTION

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

ELECTRICAL POWER PLAN



John A. Rodriguez III

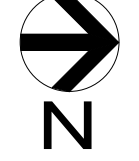
01/24/2025

NRG
ENGINEERING
5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
P - 361.852.2727 F - 361.852.2922
TEXAS ENGINEERING FIRM NO. 005318

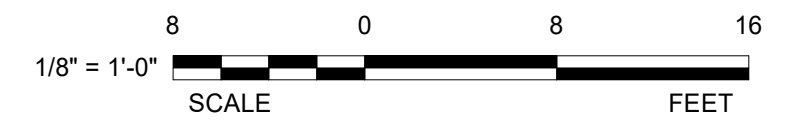
24169

JOB NO. 202415
PHASE: CONSTRUCTION DOCUMENTS
ISSUE DATE: 01/24/2025
DRN. BY: CEG
CKD. BY: JAR

SHEET NUMBER
E200



1 ELECTRICAL POWER PLAN 1/8" = 1'-0"



ELECTRICAL GENERAL NOTES:

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- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES.
- D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- E. ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED VERSION OF NATION ELECTRICAL CODE.
- F. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS, WHERE APPLICABLE.
- H. REFER TO #1/E500 PLANS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL FIXTURES PRIOR TO ROUGH-IN.

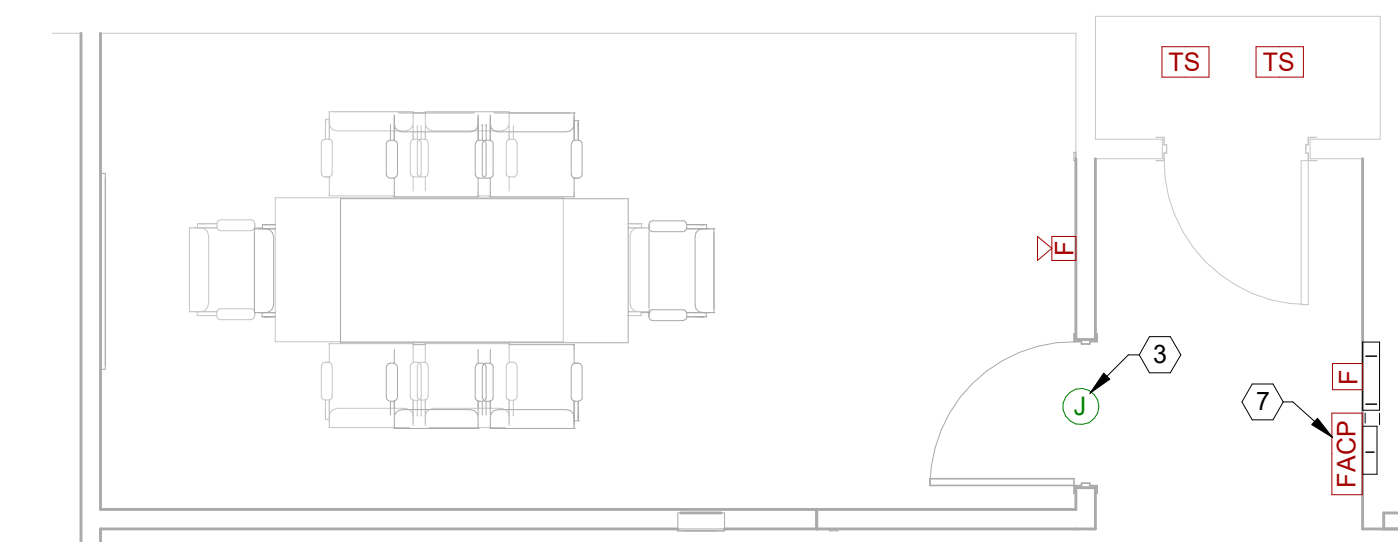
ELECTRICAL SPECIAL SYSTEM KEY NOTES:

- ① EXISTING DEVICES TO REMAIN.
- ② CONTINUE AND EXTEND CABLE TRAY TO EXISTING CABLE TRAY FROM PHASE (II).
- ③ PROVIDE J-BOX ABOVE ACCESSIBLE CEILING FOR FUTURE ELECTRONIC DOOR CONTROLS.
- ④ COORDINATE EXACT LOCATION/ELEVATION OF ROUGH-IN WITH OWNER AND SECURITY COMPANY PRIOR TO INSTALLATION.
- ⑤ COORDIANTE EXACT LOCATION OF RELOCATED CAMERA WITH OWNER PRIOR TO INSTALLATION.
- ⑥ CARD READER AND ELECTRONIC STRIKE FROM DEMOLITION PHASE.
- ⑦ APPROXIMATE LOCATION OF RELOCATED FACP AND ADJACENT FIRE ALARM DEVICES PER ALTERNATE #1. EXTEND ALL CONDUITS AND CONDUCTORS TO NEW LOCATION. MAINTAIN EXISTING FIRE ALARM SYSTEM.

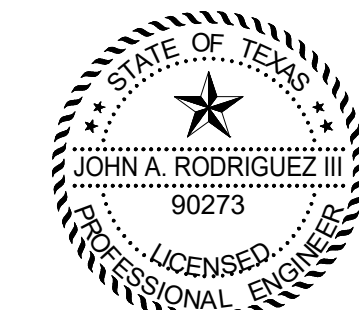
CABLE TRAYS SHALL BE 12" X 4". FIELD COORDINATE OPENING THROUGH NON-RATED WALL.

ALL DATA CABLING, AUDIO/VISUAL SYSTEMS, ACCESS CONTROL DEVICES, SECURITY AND SECURITY CAMERA SYSTEMS SHALL BE PROVIDED AND INSTALLED BY OWNER. COORDINATE WITH OWNER'S VENDOR FOR ALL ROUGH-INS. FIRE ALARM DEVICES SHALL BE PROVIDED BY CONTRACTOR.

EXISTING RTU DUCT SMOKE DETECTORS TO REMAIN. INTERCONNECT ALL DEVICES WITH EXISTING FIRE ALARM SYSTEM. REFER TO MECHANICAL DRAWINGS FOR RTU DUCT SMOKE DETECTOR LOCATIONS.



② ELECTRICAL SPECIAL SYSTEMS PLAN - ALTERNATE #1
1/4" = 1'-0"



John A. Rodriguez III

01/24/2025



24169

REVISIONS	
DATE	DESCRIPTION

**WORKFORCE SOLUTIONS
PHASE III RENOVATION**
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

SPECIAL SYSTEMS PLAN

JOB NO.	202415
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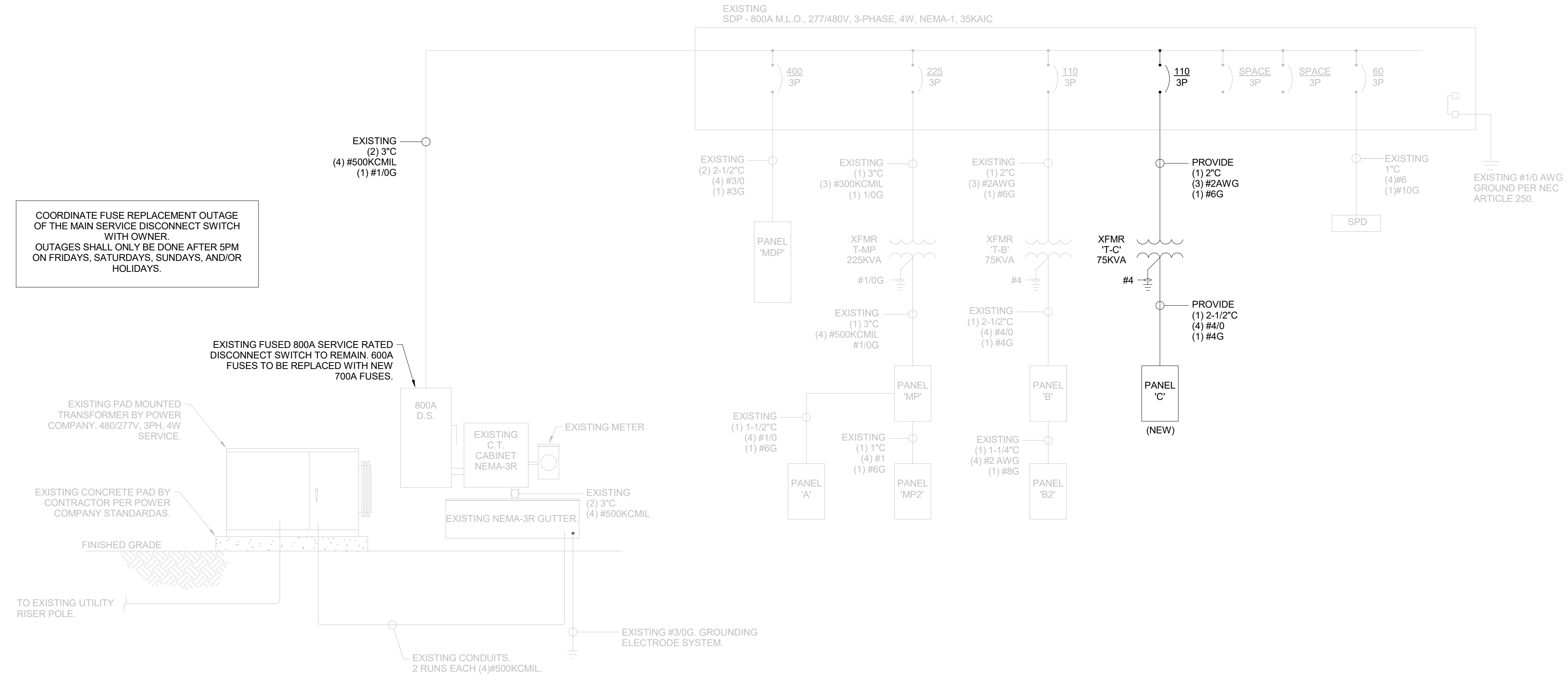
SHEET NUMBER
E300

ESTIMATED ELECTRICAL LOAD (PHASE III)			
277/480V, 3PH, 4W			
DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
LIGHTING	3879	125%	4849
RECEPTACLES	39520	NEC 220-44	24760
KITCHEN EQUIPMENT	0	NEC 220-56	0
H.V.A.C.	48880	100%	48880
LARGEST MOTOR	0	125%	0
MOTOR LOAD	0	100%	0
MISC. SINGLE PHASE LOADS	500	100%	500
TOTAL VOLT-AMPERES	92779		78989
$78989 \text{ VA} / (480 * 1.732)$	=	95	AMPS
EXISTING ELECTRICAL LOAD (PHASE I & II)	=	435369	VA
		523.7	AMPS
TOTAL CONNECTED LOAD VOLT-AMPERES	=	514358	VA
$514358 \text{ VA} / (480 * 1.732)$	=	618.7	AMPS

01/24/2025

clk
architects & associates
615 N. Upper Broadway
Suite 1250
Corpus Christi, TX
78401-0750

REVISIONS	
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COORDINATE FUSE REPLACEMENT OUTAGE OF THE MAIN SERVICE DISCONNECT SWITCH WITH OWNER. OUTAGES SHALL ONLY BE DONE AFTER 5PM ON FRIDAYS, SATURDAYS, SUNDAYS, AND/OR HOLIDAYS.

1 ONE-LINE DIAGRAM
SCALE: NTS

STATE OF TEXAS
JOHN A. RODRIGUEZ III
90273
LICENSED PROFESSIONAL ENGINEER
01/24/25

NRG ENGINEERING
5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
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TEXAS ENGINEERING FIRM NO. 005318

WORKFORCE SOLUTIONS
PHASE III RENOVATIONS
4981 AYERS STREET
CORPUS CHRISTI, TX 78415
ELECTRICAL ONE-LINE DIAGRAM

JOB NO.	202415
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CKD. BY:	JAR

SHEET NUMBER
E400

24169



LIGHT FIXTURE SCHEDULE table with columns: TYPE, MANUFACTURER & CATALOG NO., VOLTAGE, WATTS, LUMENS, TEMP, MOUNTED, DESCRIPTION. Includes items like FINELITE #HP-2-P-D-8-V-840-F-96-277-SC-FC-10%-FA150-C4-FE-CBA-ABL-8H-CBA.

NOTE #1 : CBA = COLOR BY ARCHITECT

PANEL 'C' table with columns: OKT #, LOAD SERVED, LOAD, CONDUIT & WIRE SIZE, BKR SIZE, A, B, C, BKR SIZE, CONDUIT & WIRE SIZE, LOAD, LOAD SERVED, OKT #. Includes items like SPD, CU-2, SS-2, SPACE, VAV-1-1, etc.

PANEL 'B2' table with columns: OKT #, LOAD SERVED, LOAD, CONDUIT & WIRE SIZE, BKR SIZE, A, B, C, BKR SIZE, CONDUIT & WIRE SIZE, LOAD, LOAD SERVED, OKT #. Includes items like COPY MACHINE 130, STORAGE 129, IT-190 RECP, etc.

NOTE #1: * DENOTES NEW CIRCUIT EXISTING BREAKER TO REMAIN.

PANEL 'SDP' table with columns: OKT #, LOAD SERVED, LOAD, CONDUIT & WIRE SIZE, BKR SIZE, A, B, C, BKR SIZE, CONDUIT & WIRE SIZE, LOAD, LOAD SERVED, OKT #. Includes items like EXISTING, XFMR - PNL 'MP', XFMR T-C, etc.

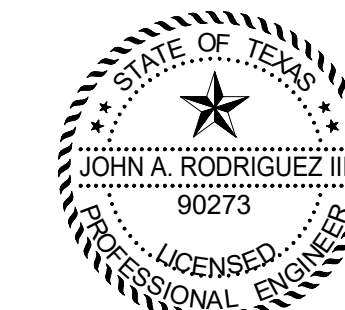
PANEL 'MDP' table with columns: OKT #, LOAD SERVED, LOAD, CONDUIT & WIRE SIZE, BKR SIZE, A, B, C, BKR SIZE, CONDUIT & WIRE SIZE, LOAD, LOAD SERVED, OKT #. Includes items like SPACE, RTU-2, RTU-4, RTU-6, etc.

NOTE #1: (A) DENOTES NEW CIRCUIT AND BREAK. NOTE #1: (B) DENOTES NEW CIRCUIT WITH EXISTING BREAKER.

REVISIONS table with columns: DATE, DESCRIPTION, MARK.

WORKFORCE SOLUTIONS PHASE III RENOVATION 4981 AYERS STREET CORPUS CHRISTI, TX 78415

PANELS AND SCHEDULES



Signature of John A. Rodriguez III

01/24/2025



Job information table: JOB NO. 202415, PHASE: CONSTRUCTION DOCUMENTS, ISSUE DATE: 01/24/2025, DRN. BY: CEG, CKD. BY: JAR.

SHEET NUMBER

E401

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
B-2	HOMERUN TO CIRCUIT AND PANEL INDICATED
—	NEUTRAL CONDUCTOR
—	HOT CONDUCTOR
—	GROUNDING CONDUCTOR
—	TRAVELER
—	SWITCH LEG
\$	TOGGLE SWITCH - 120/277V, 20A
\$s	THREEWAY SWITCH - 120/277V, 20A
\$4	FOURWAY SWITCH - 120/277V, 20A
\$0	DIMMER SWITCH - REFER TO LTG CONTROL FOR ADDITIONAL INFORMATION
\$K	KEY SWITCH - 120/277V, 20A
\$M	MOTOR RATED SWITCH
REF TO LIGHTING PLAN FOR ADDITIONAL LOW VOLTAGE LIGHTING CONTROLS SYMBOLS	
	DUPLEX RECEPTACLE - 125V,20A,1P
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE 125V,20A,1P
	ISOLATED GROUND RECEPTACLE - 125V,20A,1P
	SINGLE RECEPTACLE - 250V, AMPS PER PANEL SCHEDULE
	QUADRAPLEX RECEPTACLE - 125V,20A,1P
	ISOLATED GROUND QUADRAPLEX RECEPTACLE - 125V,20A,1P
	DUPLEX RECEPTACLE - 125V,20A,1P (FLOOR MOUNTED)
	JUNCTION BOX, SIZED PER N.E.C.
	COMBO RECEPT. & USB CHARGING DEVICE HUBBELL #US820A2S
	TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
	DATA/TELEPHONE OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
	DATA OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
	TELEVISION OUTLET BOX WITH CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING
	SPEAKER
	PUSHBUTTON
	HOLD UP BUTTON
AC	ABOVE COUNTER
WP	WEATHER PROOF
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
E.C.	ELECTRICAL CONTRACTOR
NL	NIGHT LIGHT - ON 24 HOURS
RCP	CIRCULATION PUMP
	120V, 1P EQUIPMENT CONNECTION
	240V, 1P EQUIPMENT CONNECTION
	240V, 3P EQUIPMENT CONNECTION
	208V, 1P EQUIPMENT CONNECTION
	208V, 3P EQUIPMENT CONNECTION
	277V, 1P EQUIPMENT CONNECTION
	480V, 3P EQUIPMENT CONNECTION
	480V, 1P EQUIPMENT CONNECTION
	DISCONNECT SWITCH - SIZE AND POLE AS NOTED
	STARTER
	MANUAL MOTOR STARTER
	PANELBOARD AS SPECIFIED
	EXHAUST FAN
	SECURITY PANEL
	GENERAL PAGING SYSTEM
	FIRE ALARM AUDIO HORN
	FIRE ALARM PULL STATION
	FIRE ALARM AUDIO/VISUAL SIGNAL
	MOTION DETECTOR
	FIRE ALARM ADA VISUAL SIGNAL
	FIRE ALARM SHUT DOWN RELAY
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT MTD. SMOKE DETECTOR
	DOOR CONTACTOR ROUGH-IN WITH CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING.
	KEY PAD
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	CAMERA
	FLOW SWITCH
	TAMPER SWITCH
	PUSH-TO-EXIT BUTTON
	ANSUL SUPPRESSION SYSTEM
	ELECTRIFIED HINGE (ACCESS CONTROL)
	GENERAL PAGING SYSTEM
	KEYPAD (ROUGH-IN) W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING
	CARD READER (ROUGH-IN) W/CONDUIT TO ACCESSIBLE LOCATIONS ABOVE CEILING
	ELECTRONIC STRIKE (ACCESS CONTROL)
	MAGNETIC LOCK (ACCESS CONTROL)

ELECTRICAL SYSTEM SECTION 16000

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND DISMANTLING OF TEMPORARY POWER USED FOR CONSTRUCTION AND ALL TESTS INCURRED AS A RESULT OF THIS WORK. COORDINATE ALL TEMPORARY ELECTRICAL SERVICE WORK WITH LOCAL UTILITY COMPANY PRIOR TO COMMENCING WORK.

WORK UNDER THIS CONTRACT INCLUDES MODIFICATIONS TO ANY EXISTING ELECTRICAL SYSTEM AND ALSO PROVIDING NEW MATERIALS, DEVICES, AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. THE WORK ALSO INCLUDES FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT ITEMS PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES, ALL LOCAL APPLICABLE ORDINANCES AND LAWS, AS WELL AS, SUBJECT TO INSPECTION.

THE INTENT OF THESE DRAWINGS ARE TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL DEVICE ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PROPER OPERATION OF ALL SYSTEMS AND THEIR ASSOCIATED EQUIPMENT AS INDICATED BY THE DESIGN ON THESE PLANS.

COORDINATE WITH THE WORK OF ALL OTHER SECTIONS. VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. REFER TO ARCHITECTURAL PLANS, AS WELL AS, KITCHEN EQUIPMENT PLANS FOR ADDITIONAL INFORMATION REGARDING RELATED EQUIPMENT, CASEWORK, AND ELECTRICAL CONNECTIONS REQUIRED THEREIN.

COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA, OSHA, LIFE SAFETY CODES, AND ALL APPLICABLE LAWS IN EFFECT AT THE TIME OF THIS PROPOSAL. IN THE CASE OF CONFLICT, THEN THE STRICTER INTERPRETATION SHALL TAKE PRECEDENCE. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITER'S LABORATORIES INC.

VERIFY VOLTAGE DROPS, A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ALL CIRCUIT BREAKERS, CONDUIT, ETC. PRIOR TO INSTALLATION.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA, NRCA STANDARDS, AS WELL AS, ALL REQUIREMENTS OF THE OWNER AND ROOF METHODS AND MATERIALS WARRANTY. SUB-CONTRACT ROOFING CONTRACTOR WORK TO AN ENTITY APPROVED FOR USE BY THE OWNER AND ROOF MANUFACTURER.

PANELBOARDS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. BUSSING SHALL BE COPPER WITH SILVER PLATING. PROVIDE SOLID NEUTRAL BAR. DISCONNECT SWITCHES, SHALL BE HEAVY-DUTY TYPE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS. DO NOT MOUNT DISCONNECT SWITCHES TO ANY HVAC UNIT. LOCATION TO BE COORDINATED WITH MECHANICAL CONTRACTOR.

TRANSFORMERS: SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS. ALL EQUIPMENT SHALL BE U.L. LISTED AND MEET OR EXCEED ALL OF THE LATEST APPLICABLE U.L. AND NEMA STANDARDS.

CIRCUIT BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT-ON TYPE OF SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. BREAKERS USED AS A SWITCH FOR 120 VOLT LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD". BREAKERS USED FOR PROTECTING HVAC EQUIPMENT SHALL BE RATED "HACR".

SURGE PROTECTION DEVICE (SPD): SPDs SHALL BE UL1449 4TH EDITION LISTED AND MANUFACTURED BY THOR SQUARE D, EATON OR SIEMENS. SPDs SHALL HAVE STANDARD 7-MODE PROTECTION AND SERVICE ENTRANCE & INTERMEDIATE DISTRIBUTION UNITS SHALL BE UL LABELED WITH 20KA INOMINAL SURGE CURRENT CAPABILITY FOR SERVICE ENTRANCE DEVICES SHALL BE 300KA PER PHASE, 200KA PER PHASE FOR INTERMEDIATE DISTRIBUTION OR ROOF MOUNTED BRANCH PANELS, AND 100KA FOR BRANCH PANELS. SPDs SHALL BE EXTERNAL TO EQUIPMENT UNLESS NOTED OTHERWISE ON DRAWING.

CABINETS: SHALL BE ONE PIECE GAGE GALVANIZED STEEL WITH MOUNTING STUDS, WIRING CUTTERS OF APPROPRIATE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98% CONDUCTIVE COPPER, ALUMINUM, OR COPPER CLAD ALUMINUM. FRONTS SHALL BE ONE PIECE GAGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET.

GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTORS ARE ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUND BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZE IN ACCORDANCE WITH NEC TABLE 250.

CONDUIT: SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED. MINIMUM OF 2" BELOW GRADE. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE. MINIMUM SIZE 3/4". PROVIDE RIGID STEEL ELBOWS WHEN UNDERGROUND AND CONDUIT FITS THE FLOOR SLAB. PROVIDE ELECTRICAL METALLIC TUBING (EMT) MEETING FSW-C563, ARMOR CABLE, OR FLEXIBLE CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLINGS 2" AND SMALLER SHALL BE COMPRESSION TYPE. CLAMP CONDUIT TO BOXES WITH BUSSING INSIDE AND LOCKNUT OUTSIDE.

- RIGID STEEL CONDUIT: ANSI C80.1
- INTERMEDIATE STEEL CONDUIT: UL 1242
- ELECTRICAL METALLIC TUBING AND FITTINGS: ANSI C80.3
- FLEXIBLE METAL CONDUIT: ZINC COATED STEEL
- LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS: UL 360. FITTINGS TO BE SPECIFICALLY APPROVED FOR USE WITH THIS RACEWAY.
- MC CAB IS APPROVED FOR INSTALLATION ONLY AT THE END OF A RIGID CONDUIT RUN AND IS ONLY TO ORIGINATE FROM AN APPROVED JUNCTION BOX AND FEED DIRECTLY DOWN TO DEVICE.

CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, #12 TO BE SOLID OR STRANDED, #10 AND LARGER TO BE STRANDED, MINIMUM #12, UNLESS OTHERWISE INDICATED. ALL EQUIPMENT TO BE PROVIDED WITH CU/AL 75 DEGREE C. TERMINAL LUGS. CONDUCTORS WITH "THIN" INSULATION MAY NOT BE USED UNDERGROUND AT SERVICE ENTRANCES, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 90 DEGREE C OR 600 VOLT AND TYPES AS FOLLOWS:

BRANCH CIRCUITS	THHN, THWN2
FEEDERS	THWN2
SERVICE ENTRANCE	THWN2, XHHW, XHHW2

DEVICES & COVERPLATES:
PUBLIC AREAS:
ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5-20R, SIDE OR BACK WIRED.
SINGLE RECEPTACLE: 15 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-15R; HUBBELL #R52R. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).
DUPLEX RECEPTACLE: 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R; HUBBELL #5342-# (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).
GROUND-FAULT INTERRUPTER RECEPTACLE: 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R; FEED-THRU TYPE CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES; UL RATED CLASS A GROUP 1, SOLID STATE GROUND-FAULT SENSING LEVEL WITH 5 ma GROUND-FAULT TRIP LEVEL. HUBBELL #1GS362#. (DEVICE COLOR IS DEPENDENT ON AREA OF BUILDING).
WEATHERPROOF RECEPTACLE: SHALL BE A GROUND-FAULT INTERRUPTER WITH STAINLESS STEEL GASKETED LIDS AND PLATE. PLATE TO CONSIST OF TWO SPRING LOADED LIDS HINGED AT TOP.
PLUG FILLERS: PROVIDE FLUSH RECEPTACLE COVERS AT ALL DUPLEX RECEPTACLES IN PUBLIC AREAS. COLOR OF FILLERS TO MATCH COLOR OF RECEPTACLE AND COVERPLATE.
LIGHTING FIXTURES: ALL LIGHTING FIXTURES AND ASSOCIATED LAMPS AND BALLASTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

LAYOUT BRANCH CIRCUIT WIRING AND ARRANGE HOMERUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE AND CONDUIT SIZE ACCORDINGLY IF VOLTAGE DROP EXCEEDS 3% OR LENGTH OF RUN EXCEEDS 100 FEET.

CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILING OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUIT PARALLEL OR PERPENDICULAR TO ALL BUILDING LINES, SUCH THAT ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC. ARE AVOIDED.

INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90 DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT FREE OF DEBRIS. SWITCHES AND OUTLETS SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR OUTLET. THE DISCONNECT ON OR REMOVAL OF A RECEPTACLE, FIXTURE OR OTHER DEVICE FED FROM A BOX SHALL NOT INTERFERE WITH OR INTERRUPT THE CONDUCTOR CONTINUITY.

ADJUSTING AND TESTING: ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. COMPLETED WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.

TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW, TO PRESENT A "NEW" APPEARANCE.

ALL CONDUIT AND JUNCTION BOXES LOCATED WITHIN AN EXPOSED STRUCTURAL SYSTEM SHALL BE PAINTED TO MATCH THE COLOR OF THE STRUCTURE (COLOR TO BE VERIFIED WITH ARCHITECT).

ALL LAMPS, FIXTURES AND ASSOCIATED HOUSINGS, LENSES, AND LOUVERS SHALL BE CLEANED PRIOR TO OWNER ACCEPTANCE.

TOGGLE TYPE SWITCH: 20 AMP, 120/277 VOLT AC SINGLE-POLE, QUIET TYPE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE-WIRED SCREW TERMINALS. HUBBELL #HBL 1221L.
A. 2-POLE, 3-WAY & 4-WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE-POLE.
PILOT TYPE TOGGLE SWITCH: INSTALL SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED 120/277 VOLT AC, PILOT LIGHT GLOWS IN THE "ON" POSITION. HUBBELL #HBL 1221PL.

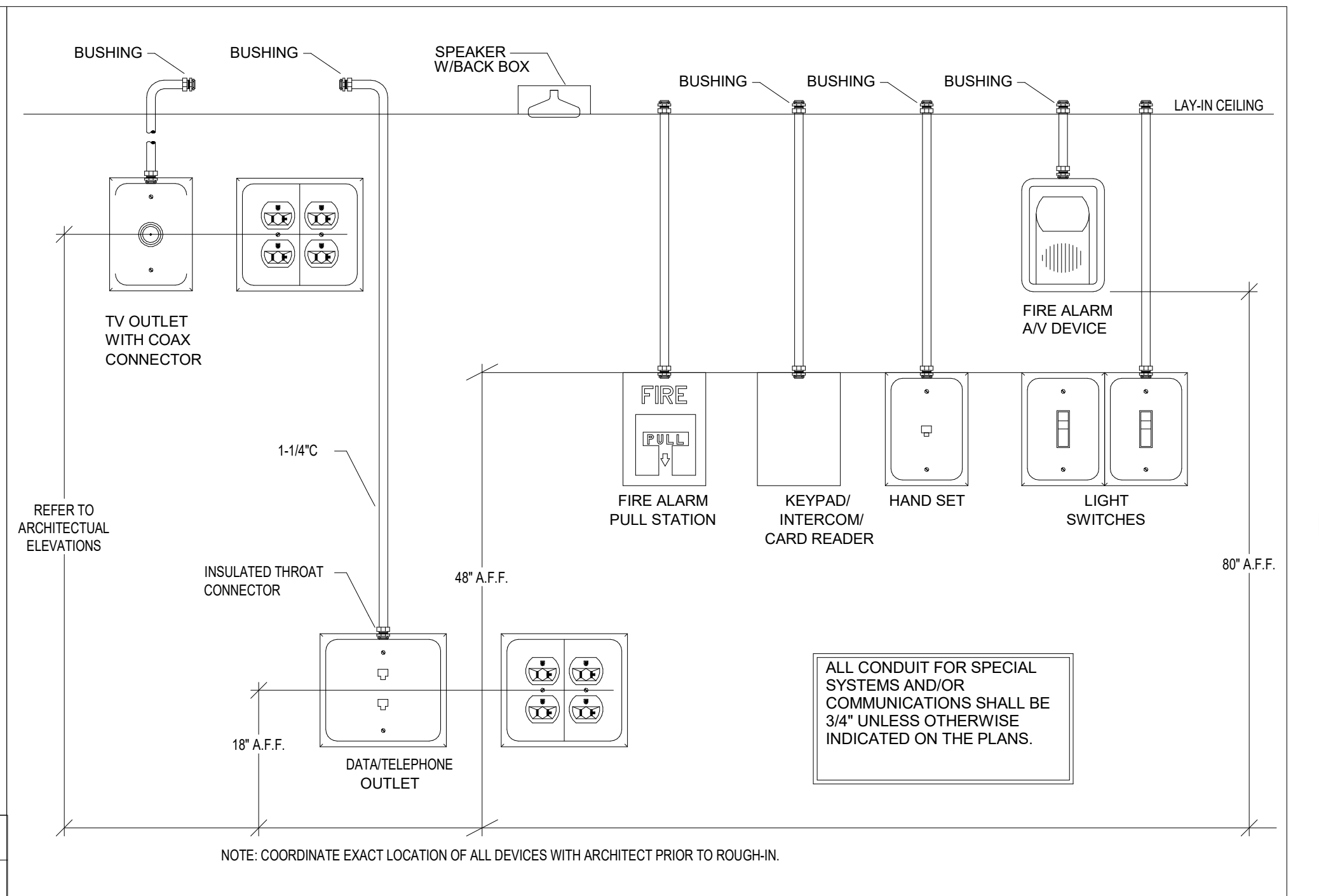
ELECTRICAL EQUIPMENT IDENTIFICATION:
A. ENGRAVED PLASTIC-LAMINATE NAMEPLATES: SHALL BE ENGRAVING STOCK MELAMINE PLASTIC LAMINATE 1/16" THICK, 1-1/2" HIGH (2" HIGH FOR 2 LINES OF TEXT) WITH 1/2" HIGH ENGRAVER'S STYLE LETTERS. COLOR SHALL BE BLACK WITH WHITE LETTERING. NAMEPLATE SHALL BE PUNCHED FOR MECHANICAL FASTENING WITH SELF-TAPPING STAINLESS STEEL SCREWS, UNLESS ADHESIVE MOUNTING IS NECESSARY DUE TO SUBSTRATE MATERIAL.

B. UNDERGROUND-TYPE PLASTIC LINE MARKER: SHALL BE PERMANENT, BRIGHT COLORED, CONTINUOUS-PRINTED PLASTIC TAPE, INTENDED FOR DIRECT BURIAL SERVICE. NOT LESS THAN 6" WIDE x 4 MILS THICK. PROVIDE TAPE WITH WORDED PRINT WHICH MOST ACCURATELY DESCRIBES THE TYPE OF SERVICE FOR BURIED CABLE.

C. CABLE/CONDUCTOR IDENTIFICATION BANDS: SHALL BE VINYL-CLOTH, SELF-ADHESIVE, WRAP-AROUND TYPE MARKER. EITHER PRE-NUMBERED PLASTIC COATED TYPE OR WRITE-ON TYPE WITH CLEAR PLASTIC SELF-ADHESIVE COVER FLAP. NUMBERED TO SHOW CIRCUIT IDENTIFICATION.

GENERAL ROOF PLAN NOTES:

- CONTRACTOR SHALL CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS AND PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES ABOVE THE CEILING TO PROVIDE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF AND FUTURE CHANGES IN MECHANICAL EQUIPMENT. CONDUIT AND PIPE TO BE RUN THROUGH TRUSSES. COORDINATE SERVICE AND ACCESS POINTS ABOVE CEILING TO MINIMIZE REQUIRED ACCESS.
- VERIFY EXACT LOCATION OF ALL HVAC EQUIPMENT WITH HVAC CONTRACTOR PRIOR TO COMMENCING ANY WORK.
- ALL EQUIPMENT (RECEPTACLES, DISC. SWITCHES, ETC.) SHALL BE WEATHERPROOF.
- ALL FUSES FOR HVAC UNITS SHALL BE SIZED AS REQUIRED BY MANUFACTURER'S NAMEPLATE ON EQUIPMENT. FUSES SHALL BE CURRENT LIMITING, TIME DELAY BUSSMAN FRN-R OR EQUAL BY GOULD SHAWMUT.
- ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
- REFER TO HVAC DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING FANS, MOTORS, ETC. AS INDICATED ON THE HVAC DRAWINGS.
- ALL DEVICES INSTALLED ON ROOF TOP EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. THIS LOCATION SHALL BE COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- ROOF DECK PENETRATIONS: CONTRACTOR SHALL SECURE LANDLORD APPROVAL FOR ALL BUILDING ROOF DECK PENETRATIONS. REQUESTS SHALL BE ON A SCALED ROOF PLAN SHOWING EXACT LOCATION & SIZE OF PENETRATION & INCLUDE DETAILS OF MOUNTING, FLASHING & SEALING. CONTRACT WITH THE LANDLORD'S ROOFING CONTRACTOR TO PERFORM ALL WORK AT THIS CONTRACTOR'S SOLE EXPENSE. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ROOFTOP EQUIPMENT, NEW ROOF PENETRATIONS, REMOVAL OF EXISTING ROOFTOP EQUIPMENT & INSTALLATION OF ALL ROOFTOP EQUIPMENT WITH THE LANDLORD.



LIGHTING CONTROL NARRATIVE:

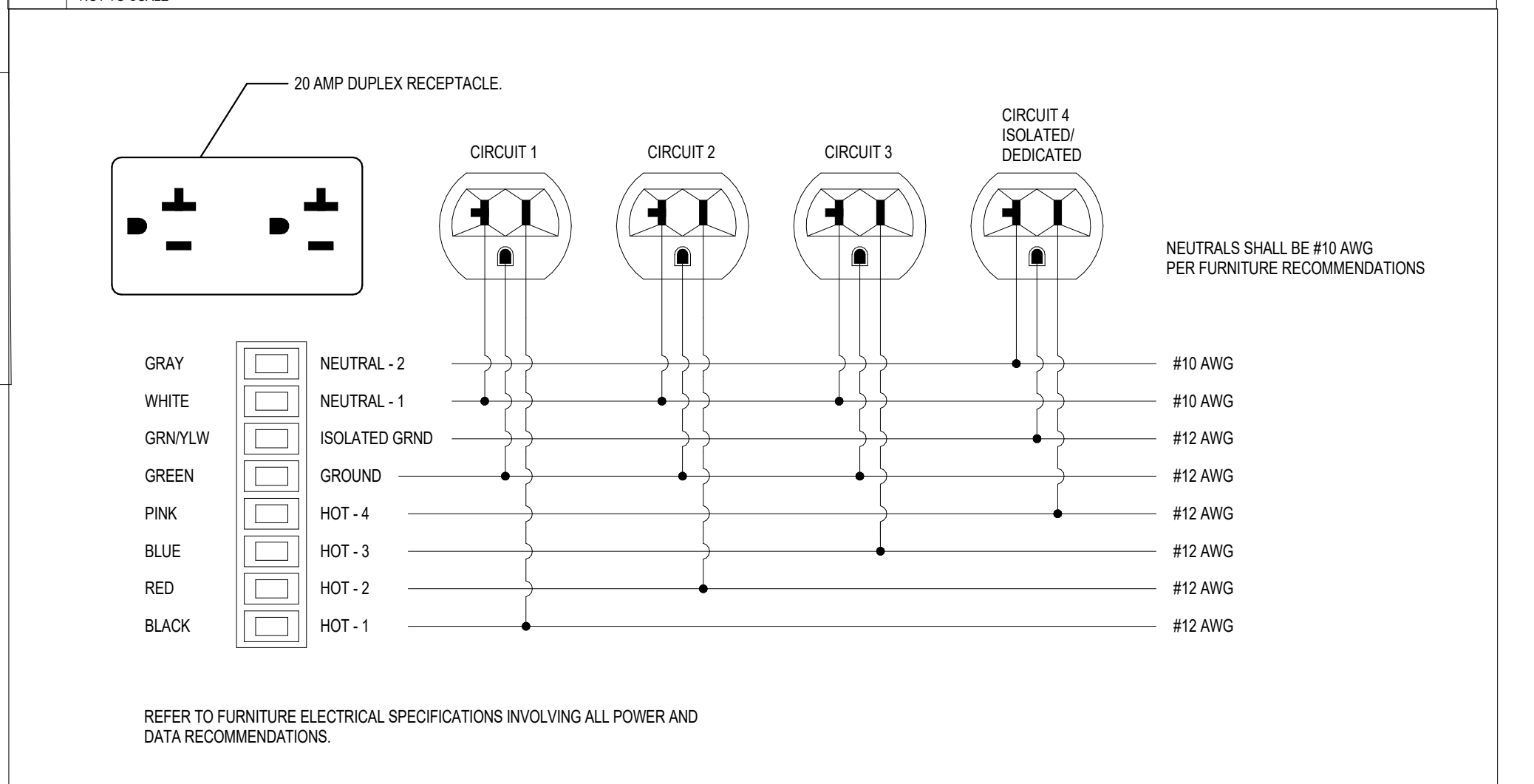
- OCCUPANT SENSOR CONTROLS SHALL BE UTILIZED THROUGHOUT FOR INTERIOR LIGHTING CONTROL, EXCEPT IN AREAS FOR WHICH EXCEPTIONS APPLY.
- NO DAYLIGHT RESPONSIVE CONTROLS ARE REQUIRED DUE TO THE FACT THAT NO ZONE MEETS THE MINIMUM REQUIREMENT OF 150WATTS PER ZONE.
- EXTERIOR LIGHTING WILL BE CONTROLLED VIA TIME CLOCK AND PHOTOCELL.
- REDUCED LIGHTING POWER DENSITY (IECC C408.3) METHOD WILL BE UTILIZED TO SATISFY THE ADDITIONAL EFFICIENCY PACKAGE OPTION IN IECC C406.

LIGHTING SYSTEM CONTROLS FUNCTIONAL TESTING (IECC C408.3):

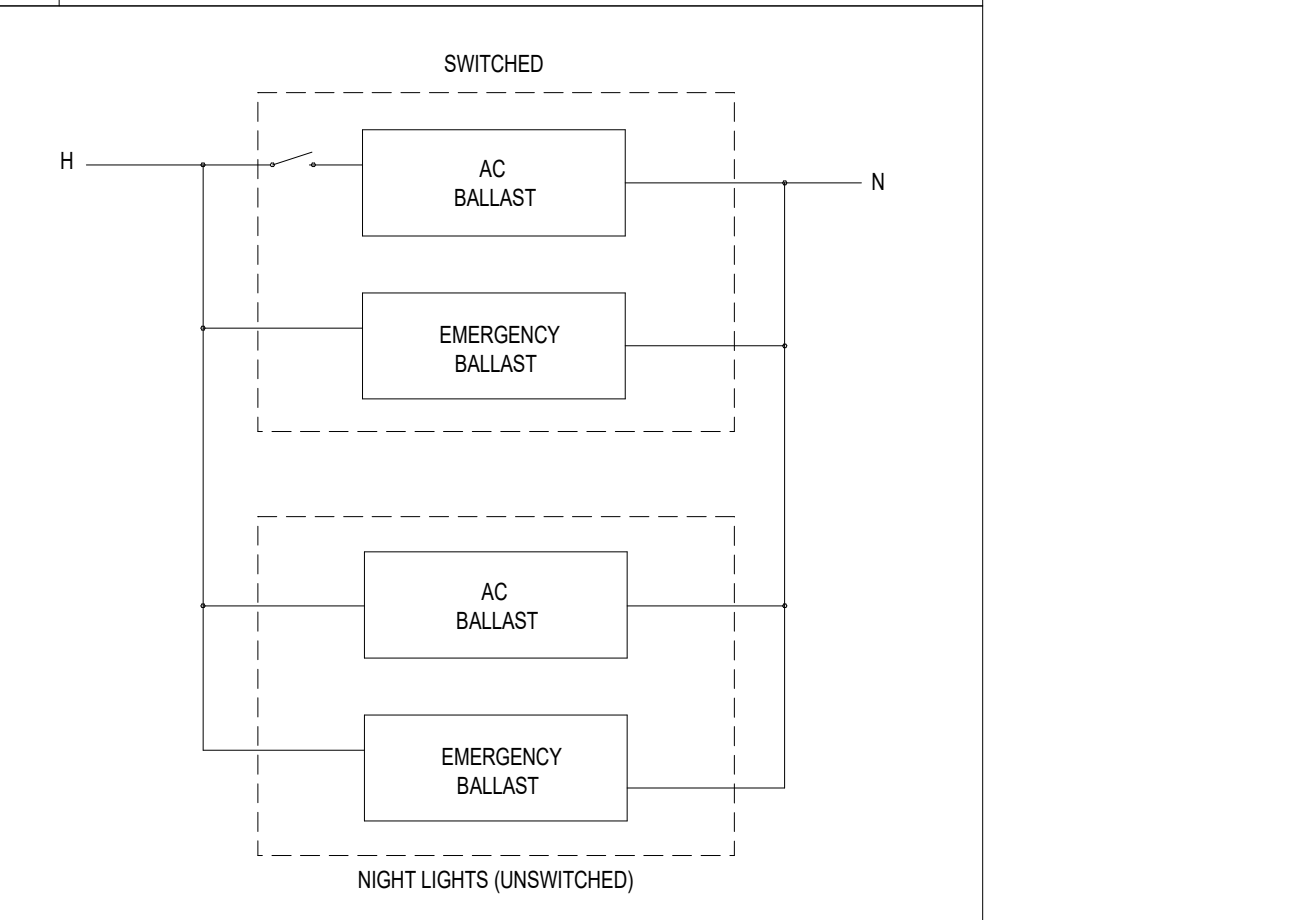
UNDER 2015 IECC, LIGHTING SYSTEM CONTROLS TESTING IS REQUIRED FOR ALL COMMERCIAL PROJECTS. A LETTER FROM THE THIRD PARTY REGISTERED DESIGN PROFESSIONAL OR COMMISSIONING AGENT THAT FOLLOWS THE REQUIREMENT IN C408.3.1 WILL FULFILL THIS REQUIREMENT. THIS INCLUDES THE PARTICULAR:

- OCCUPANT SENSOR CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.1
- TIME SWITCH CONTROLS, APPLICABLE FOR ALL PROJECTS C405.2.2
- DAYLIGHT RESPONSIVE CONTROLS, WHERE APPLICABLE C405.2.3
- SPECIFIC APPLICATION CONTROLS, WHERE APPLICABLE C405.2.4 (DISPLAY LIGHTING, ETC.)
- EXTERIOR LIGHTING CONTROLS, WHERE APPLICABLE C405.2.5

1 TYPICAL DEVICE ELEVATIONS (UNLESS NOTED OTHERWISE)



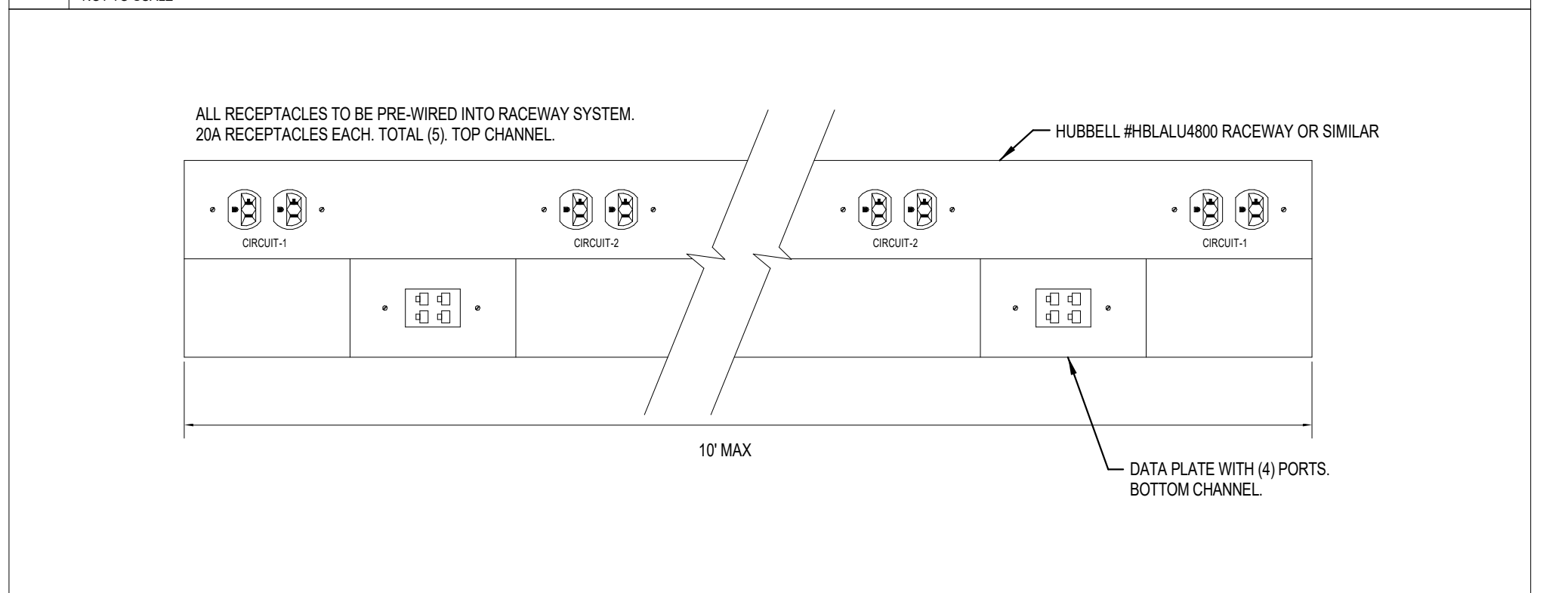
4 DISCONNECT MOUNTING DETAIL



5 EMERGENCY BALLAST WIRING



2 FOUR CIRCUITS, 3 + 1 RECEPTACLE OPTION, WIRING DIAGRAM



3 PRE-WIRED RACEWAY SYSTEM DIAGRAM

01/24/2025

NRG ENGINEERING
5656 S. STAPLES, SUITE 360,
CORPUS CHRISTI, TX 78411
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TEXAS ENGINEERING FIRM NO. 005318

JOB NO.	202415
PHASE:	CONSTRUCTION DOCUMENTS
ISSUE DATE:	01/24/2025
DRN. BY:	CEG
CKD. BY:	JAR

SHEET NUMBER **E500**

24169

01/24/2025

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architects & associates
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Suite 1250
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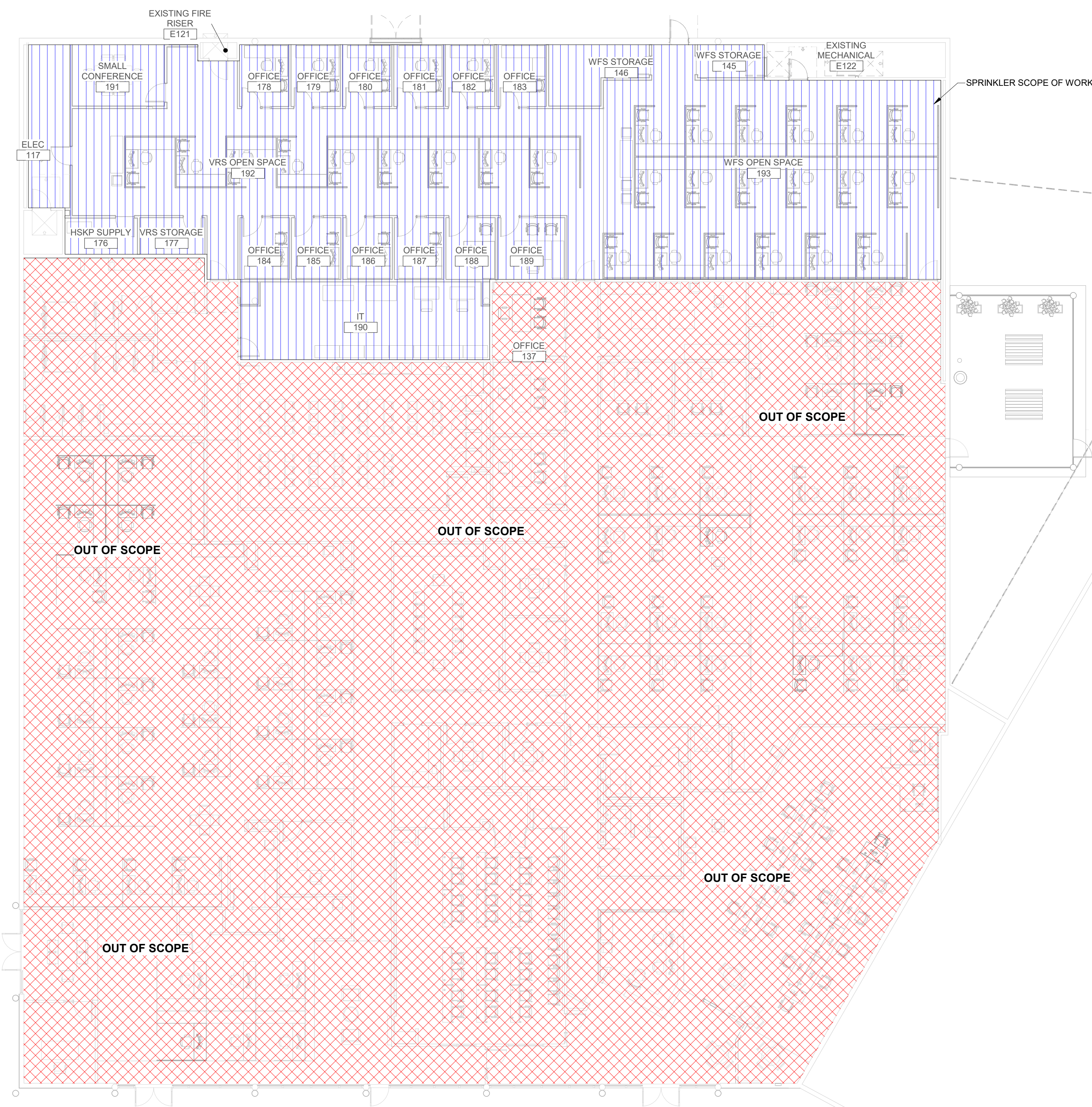
DATE	REVISIONS

WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

ELECTRICAL SPECIFICATIONS & DETAILS

JOB NO. 202415
PHASE: CONSTRUCTION DOCUMENTS
ISSUE DATE: 01/24/2025
DRN. BY: CEG
CKD. BY: JAR

SHEET NUMBER
E500



AUTOMATIC SPRINKLER SYSTEM SECTION 15300

PROVIDE AUTOMATIC FIRE-EXTINGUISHING DISTRIBUTION SYSTEM THROUGHOUT THE PROJECT TO ACCOMMODATE ALL PARTITIONS, SOFFITS, CEILING DROPS, CEILING HEIGHTS AND MATERIALS, ETC., AS INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS REQUIRED BY THE CONDITIONS OF THE PROJECT SITE. PROVIDE A COMPLETE BACKFLOW PREVENTION SYSTEM FOR THE AUTOMATIC SPRINKLER SYSTEM, INCLUDING ALL REQUIRED ACCESSORIES AND COMPONENTS.

COMPLY WITH ALL REQUIREMENTS OF THE GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA #13 AND ALL APPLICABLE STATE AND LOCAL LAWS AND ORDINANCES.

SUBMIT SHOP DRAWINGS TO INDICATE DESIGN, LAYOUT, MATERIALS, AND INSTALLATION. SUBMIT DRAWINGS TO AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL PRIOR TO EXECUTION OF THE WORK OF THIS SECTION.

SUBMIT AUTOMATIC SPRINKLER SYSTEM SHOP DRAWING PLANS AND SPECIFICATIONS TO THE FIRE MARSHALL FOR REVIEW AND APPROVAL.

SPRINKLER HEADS SHALL BE CHROME PLATED, TYPICAL. IN ALL AREAS EXPOSED TO "PUBLIC" VIEW (INCLUDING TOILETS), PROVIDE PAINTED CONCEALED TYPE. IN OTHER AREAS, PROVIDE STANDARD HEADS, EITHER PENDANT OR SIDEWALL TYPE IN ROOMS WITH CEILINGS, UPRIGHT TYPE HEADS IN ROOMS WITHOUT CEILINGS. IF SPRINKLER HEAD IS AT OR BELOW 7 FEET ABOVE FLOOR, INSTALL HEAD GUARD TO PREVENT ACCIDENTAL TRIPPING.

COORDINATE SPRINKLER SYSTEM WORK WITH OTHER TRADES TO CLEAR PIPING, LIGHTING, DUCTWORK AND STRUCTURAL MEMBERS.

IN ALL AREAS WITH CEILINGS, INSTALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE, UNLESS OTHERWISE DIRECTED BY ARCHITECT. LOCATE SPRINKLER HEADS CENTERED IN CEILING PANELS WHERE POSSIBLE, OR AS OTHERWISE REQUIRED BY ACTUAL CONDITIONS. LOCATE AND INSULATE DRAIN LINES TO PREVENT WATER DAMAGE IN BUILDING.

FIRE PROTECTION DESIGN CRITERIA

BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE.

BUILDING USE GROUP: B - BUSINESS

BUILDING CONSTRUCTION: FULLY SPRINKLED.

BUILDING CLASSIFICATION: LIGHT HAZARD

DENSITY/AREA DESIGN: 0.10 GPM/SQ.FT @ 1500 SQ.FT.

HOSE DEMAND REQUIREMENTS: 100 GPM (INSIDE), 150 GPM (OUTSIDE)

SPRINKLER HEAD TYPE: AREAS WITH CEILINGS PROVIDE PAINTED CONCEALED TYPE, AREAS WITHOUT CEILINGS PROVIDE BRASS (UP-RIGHT) TYPE. EXPOSED HEADS SHALL HAVE METAL CAGE PROTECTIVE COVER.

FLOW TEST: CONTRACTOR SHALL PERFORM WATER FLOW TEST AT SITE FOR USE WITH HIS HYDRAULIC CALCULATIONS.

NOTE: THE ABOVE MENTIONED CRITERIA SHALL BE USED A MINIMUM DESIGN BASIS. BUILDING TYPE, CONSTRUCTION, AND CLASSIFICATION TO BE CONFIRMED BY CRITERIA SET FORTH IN ARCHITECTURAL DRAWINGS. SPRINKLER SYSTEM DESIGN SHALL MEET REQUIREMENTS OF NFPA 13 LATEST EDITION, NFPA 14, NFPA 20, ALL STATE/LOCAL CODES, AND OWNER'S INSURANCE COMPANY. WORK IS LIMITED TO THE PHASE 3 AREA TO BE FINISHED OUT AND ANY NECESSARY MODIFICATIONS TO THE FIRE RISER.

NOTE: FINAL FIRE PROTECTION DESIGN CRITERIA SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR. SUBMIT ONE DIGITAL SET OF SHOP DRAWINGS AND CALCULATIONS IN A PORTABLE DIGITAL FORMAT (PDF). SUBMIT ONE TO THE ENGINEER FOR REVIEW, ONE FOR THE SITE, ONE FOR THE OWNER, AND ONE TO THE FIRE MARSHALL FOR APPROVAL.

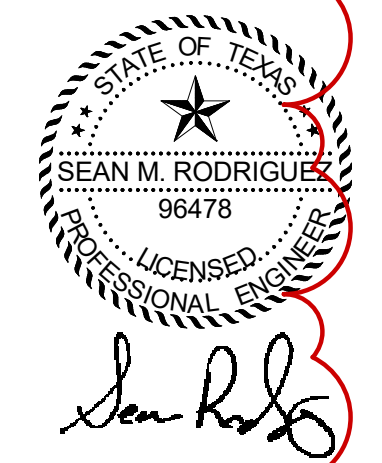
PLUMBING PIPE MATERIALS SCHEDULE	
PIPING SYSTEM	PIPING MATERIAL
FIRE SPRINKLER BELOW GRADE	DUCTILE IRON WITH MECH. JOINTS
FIRE SPRINKLER ABOVE GRADE ≤ 2"	BLACK STEEL SCHEDULE 40
FIRE SPRINKLER ABOVE GRADE ≤ 2-1/2"	BLACK STEEL SCHEDULE 10

REVISIONS	
DATE	DESCRIPTION
02/11/25 <td>PREBID ADDENDUM 01</td>	PREBID ADDENDUM 01

**WORKFORCE SOLUTIONS
PHASE III RENOVATION**
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

FIRE PROTECTION

1 SPRINKLER PLAN
3/32" = 1'-0"



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ISSUE DATE: 02/04/2025
DRN. BY: JS
CKD. BY: SR

SHEET NUMBER
FP001