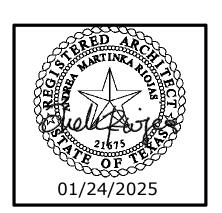
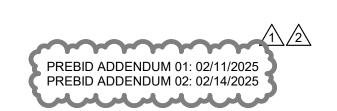
PHASE III RENOVATION

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

(281) 494-1230 (voice) (281) 494-1234 (fax)

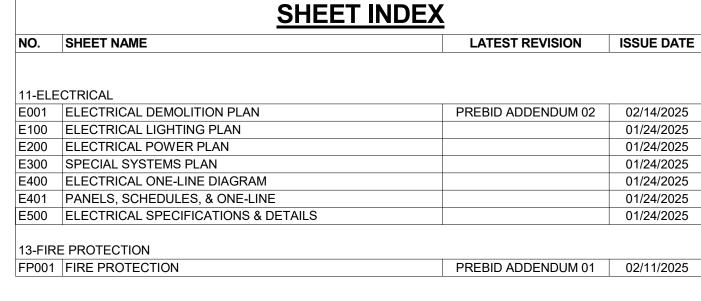


615 N. Upper Broadway
Suite 1250
Corpus Christi, TX 78401-0750
T: 361.884.3295
F: 361.884.3298
www.clkarch.com

NRG Engineering
Mechanical - Electrical - Plumbing

5656 S. Staples Suite 360
Corpus Christi, TX 78411
T: 361-852-2727
F: 361-852-2922

NO.	SHEET NAME	LATEST REVISION	ISSUE DATE
2-COVI	=R COVER		02/14/2025
0	COVER	PREBID ADDENDUM 02	02/14/2025
3-GENI	ERAL		
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
0 DEM	OLITION		
6-DEM	OLITION DEMOLITION PLAN		01/24/2025
D110	DEMOLITION PLAN DEMOLITION REFLECTED CEILING PLAN		01/24/2025
J 120	DEMOCITION ACT LEGILD OLILING FLAN		01/27/2020
7-ARCI	HITECTURAL		
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
o otbi	IOTUDAL		
8-51RU S001	JCTURAL STRUCTURAL GENERAL NOTES		01/24/2025
S100	OVERALL FOUNDATION PLAN		01/24/2025
S1100	PLANS AND DETAILS		01/24/2025
S400	TYPICAL FOUNDATION DETAILS	PREBID ADDENDUM 01	02/11/2025
S415	TYPICAL METAL STUD DETAILS	T REDID ADDENDOW 01	01/24/2025
S416	TYPICAL METAL STUD DETAILS	PREBID ADDENDUM 01	02/11/2025
0110	THE TOTAL METAL STOP DETAILED	1 NESIS NESENSONI 01	02/11/2020
10-MEC	CHANICAL		
M001	MECHANICAL SYMBOLS AND LEGENDS		01/24/2025
MD100	DEMO HVAC PLAN	PREBID ADDENDUM 02	02/14/2025
M001	MECHANICAL SYMBOLS AND LEGENDS		01/24/2025
M100	HVAC PLAN		01/24/2025
M101	MECHANICAL ROOF PLAN	PREBID ADDENDUM 02	02/14/2025
M400	MECHANICAL SCHEDULES	PREBID ADDENDUM 02	02/14/2025
M401	RTU SCHEDULE - ALT 1	PREBID ADDENDUM 02	02/14/2025
M500	MECHANICAL DETAILS		01/24/2025
M600	MECHANICAL SPECIFICATIONS		01/24/2025





PROJECT CODE SUMMARY

DETERMINATION

TYPE II-B

LOCAL ORDINANCES:

REFERENCE

IBC SECTION 304.1

IBC TABLE 601

ULU419

IBC 903.2.6, IFC 1103.5

IBC 2015 TABLE 1004.1.2

IBC TABLE 601 TX ADMIN CODE CH

APPLICABLE CODES & REGULATIONS:

2021 ICC INTERNATIONAL BUILDING CODE

2021 ICC ENERGY CONSERVATION CODE

2021 ICC EXISTING BUILDING CODE

2015 ICC INTERNATIONAL FIRE CODE

2020 NFPA NATIONAL ELECTRIC CODE

PROJECT SQUARE FOOTAGE:

AMERICANS WITH DISABILITIES ACT, TITLE III

6,340 SF

2021 ICC FUEL GAS CODE

2021 ICC MECHANICAL CODE

2021 ICC PLUMBING CODE

RENOVATION:

OCCUPANCY TYPE:

OCCUPANT LOAD:

CONSTRUCTION TYPE:

ALLOWABLE FLOOR AREA:

FLOOR CONSTRUCTION:

ROOF CONSTRUCTION:

INTERIOR RATED WALLS:

FIRE SPRINKLER SYSTEM:

LIFE SAFETY

FIRE RESISTANCE SCHEDULE:

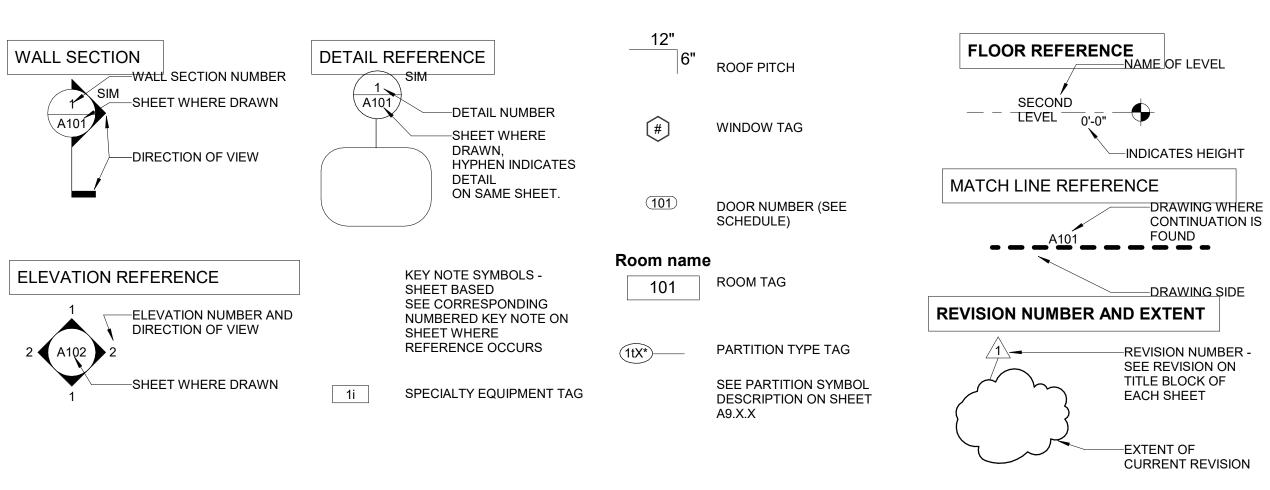
SECONDARY WF BEAMS/GIRDERS:

SECONDARY WF BEAMS/GIRDERS:

SECONDARY TS COLUMN/TRUSS:

OCCUPANCY & AREA

REFERENCE SYMBOLS & TAGS

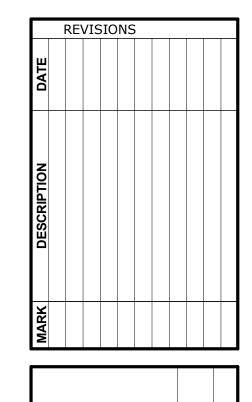


INFO - ABBREVIATIONS

# &	POUND OR NUMBER AND	JAN JT	JANITOR JOINT
	AT	JNT.	JOINT
@ ACT	ACOUSTIC CEILING TILE	LAM	LAMINATE
-	ADMINISTRATION OR ADMINISTRATOR	LF.	LEFT
	ABOVE FINISH FLOOR	LO	LOW
	ABOVE FINISHED FLOOR	MAX	MAXIMUM
A.F.G.	ABOVE FINISH GRADE	MCJ	MASONRY CONTROL JOINT
	ABOVE FINISHED GRADE	MECH	MECHANICAL
AL, ALU,	ALUMINUM		MEMBRANE
	ALUMINUM	MFG	MANUFACTURER
	ANODIZED		MANUFACTURER
	ASSISTANT	MIN	MINIMUM
BD.	BOARD	MTD	MOUNTED
BLDG.	BUILDING	MTG	MOUNTING
B.O. BOT	BOTTOM OF BOTTOM	MTL N.A.	METAL NOT APPLICABLE
	CONTRACTOR FURNISHED	N.A. N.I.C.	NOT APPLICABLE NOT IN CONTRACT
	CEMENT FIBER BOARD	NO.	NUMBER
	CORNER GUARD	O.C.	ON CENTER
C.I.	CONTRACTOR INSTALLED	OFCI	OWNER FURNISHED CONTRACTOR INSTAI
C.I.P.	CAST IN PLACE	ОН	OPPOSITE HAND
C.J.	CONTROL JOINT	OPP HD	OPPOSITE HAND
	CENTER LINE	OZ.	OUNCE
	CEILING	PLAM	PLASTIC LAMINATE
	CLEAR	PCC	PRE-CAST CONCRETE
	CLOSET		PLUMBING
	CONCRETE MASONRY UNIT	PLWD.	
	CONCRETE MASONRY UNIT	PNT	PAINT, OR PAINTED
	COLUMN	PSI PT.	POUNDS PER SQUARE INCH
	COLUMN CORRIDOR	PT. PVC	PRESSURE TREATED POLYVINYL CHLORIDE
	CORRIDOR	PWR	POWER
	CONCRETE	RBR.	RUBBER
	CONFERENCE	RCP	REFLECTED CEILING PLAN
	CONTINUOUS	RD	ROOF DRAIN
CPT	CARPET	REFR	REFERENCE
CT	CERAMIC TILE	REF.	REFERENCE
DBL.	DOUBLE	RE:	REFERENCE
DET.	DETAIL	REQ.	REQUIRE OR REQUIRED
DEMO	DEMOLISH OR DEMOLITION	RD	ROOF DRAIN
DIA.	DIAMETER	R.O.	ROUGH OPENING
DISC.	DISCONNECT	RM.	ROOM
DIM. DN	DIMENSION DOWN	RT. SAT	RIGHT SUSPENDED ACOUSTICAL TILE
DR	DOOR	SCHED	
DWG	DRAWING	SDT	STATIC DISSIPATIVE TILE
	DRAWINGS	SF	SQUARE FOOT
EA	EACH	SHT	SHEET
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SIM	SIMILAR
ELEV	ELEVATION	SL	SLOPE
E.J.	EXPANSION JOINT	SO	STRUCTURAL OPENING
	ELECTRICAL	SPEC.	SPECIFICATION OR SPECIFIED
	ELEVATION	SPK.	SPRINKLER OR SPEAKER
EPDM	ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING)	SQ FT	SQUARE FEET
EQ.	EQUAL	SS	SANITARY SEWER
EQMT. ETR	EQUIPMENT EXISTING TO REMAIN	SSM SSTL.	SOLID SURFACE MATERIAL STAINLESS STEEL
EWC	ELECTRIC WATER COOLER	STC	SOUND TRANSMISSION COEFFICIENT
EXIST.	EXISTING		STRUCTURE, OR STRUCTURAL
EXH.	EXHAUST	STL	STEEL
EXP.	EXPOSED	SYS	SYSTEM
	EXTERIOR	VCT	VINYL COMPOSITION TILE
	FIRE ALARM	VWC	VINYL WALL COVERING
FD	FLOOR DRAIN	VERT	VERTICAL
FEC	FIRE EXTINGUISHER CABINET	TBD	TO BE DETERMINED
F.F.	FINISH FLOOR	T-: -	TELEBLIONE
FFE	FURNITURE, FIXTURES, & EQUIPMENT	TELE	TELEPHONE
FIN	FINISHED FLOOR ELEVATION	T&G	TONGUE AND GROOVE
FL FLR.	FLOOR FLOOR	THK. TLT.	THICKNESS OR THICK
	FLUORESCENT	T.O.	TOILET TOP OF
F.O.	FACE OF	TOB	TOP OF BEAM
FT	FOOT, FEET, OR FLOOR TILE	T.O.C.	TOP OF CONCRETE
F.V.	FIELD VERIFY	TOJ	TOP OF JOIST
	GAUGE	TOP	TOP OF PARAPET
GALV.	GALVANIZED	TOR	TOP OF ROOF
GFI	GROUND FAULT INTERUPTER	T.O.S.	TOP OF STEEL
GND.	GROUND	TPD.	TOILET PAPER DISPENSER
	GYPSUM BOARD	T/D	TELEPHONE / DATA
GYP.	GYPSUM BOARD	TVD	TELEVISION
H.C.	HOLLOW CORE	TYP	TYPICAL
HDW H.M.	HARDWARE HOLLOW METAL	UNO UON	UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED
п.ivi. HR	HOUR	U/S	UNDERSIDE
nr HRS.	HOURS	VCT	VINYL COMPOSITION TILE
HVAC	HEATING, VENTILATING, & AIR CONDITIONING	VEST.	VESTIBULE
INSUL	INSULATION	VLGT. V.I.F.	VERIFY IN FIELD
INT	INTERIOR	VP	VISION PANEL
IT	INFORMATION TECHNOLOGY	W/	WITH
		WB	WALL BASE
		WD.	WOOD
		WT	WALL TILE







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

. 2º

JOB NO. 202415

PHASE: CONSTRUCTION DOCUMENTS

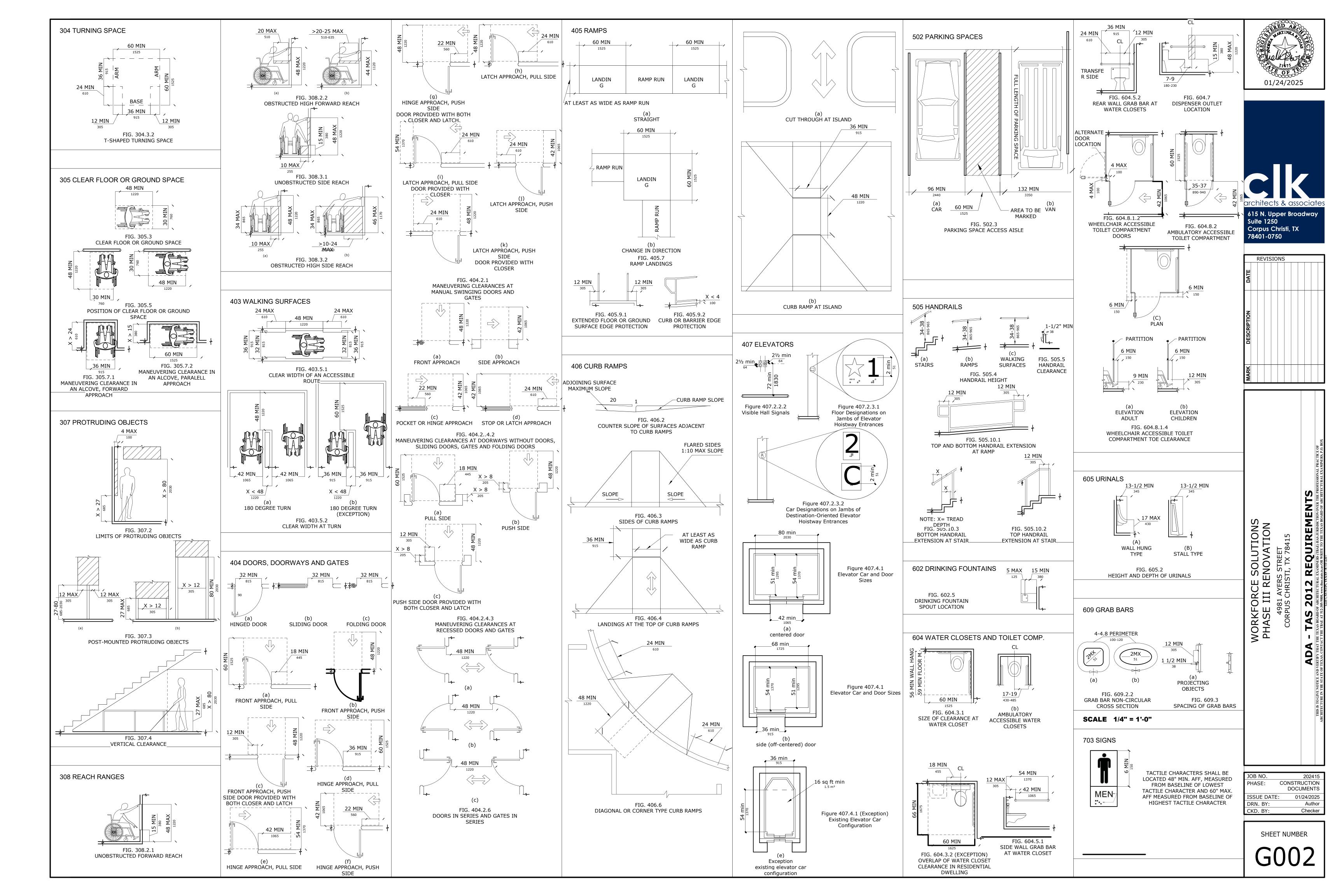
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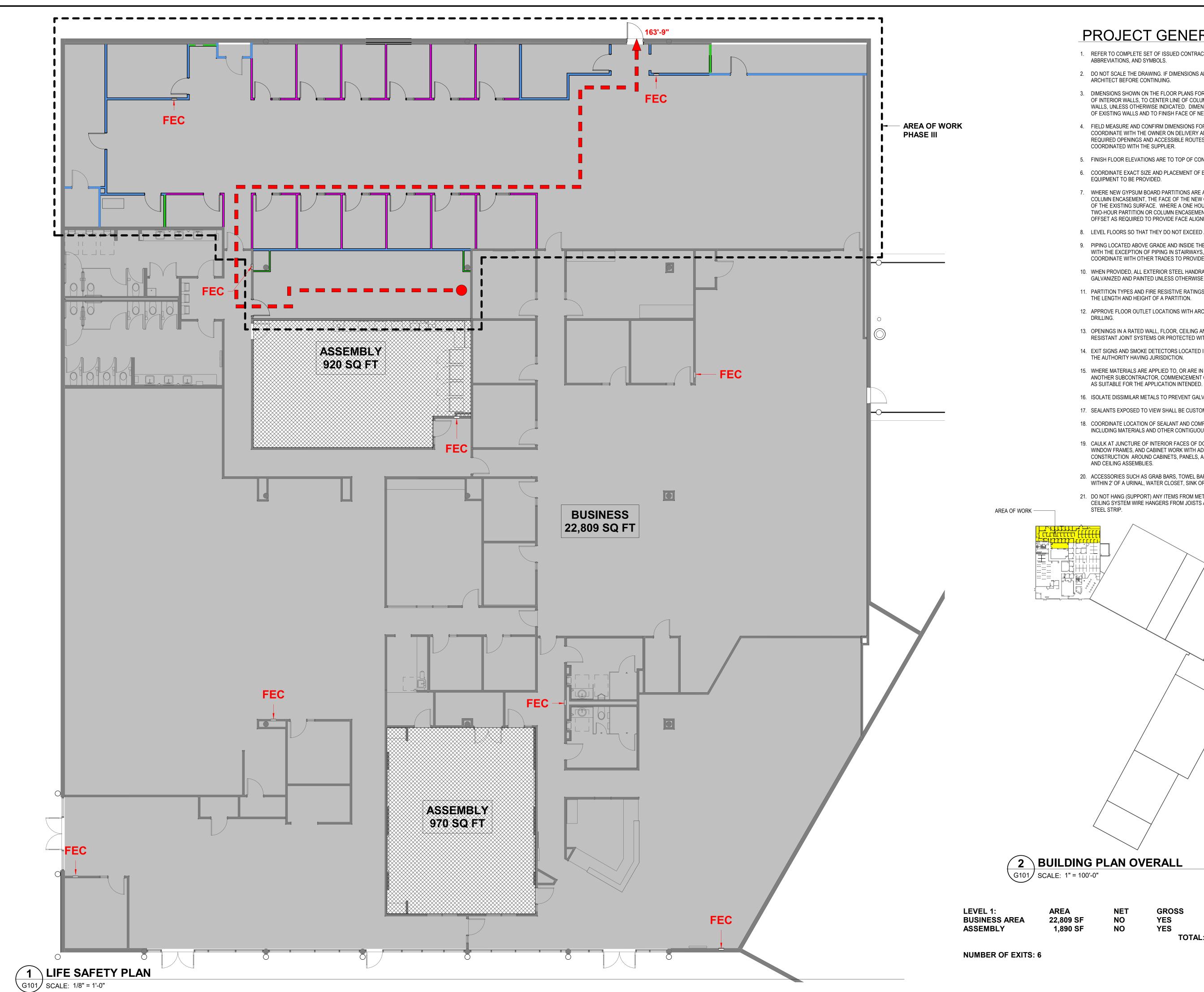
DRN. BY: Author

CKD. BY: Checker

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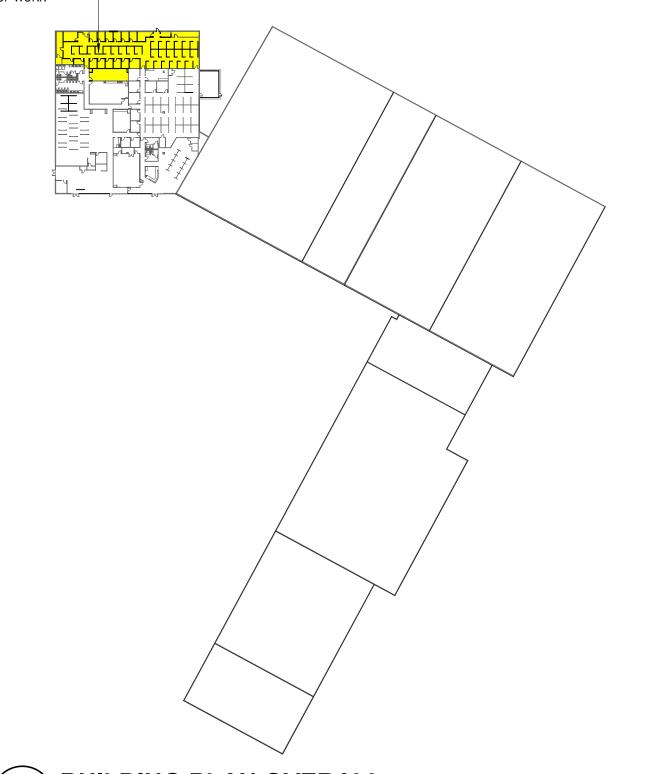
G001





PROJECT GENERAL NOTES

- 1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
- 2. DO NOT SCALE THE DRAWING. IF DIMENSIONS ARE IN QUESTION. OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING.
- 3. 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 AND TO FINISH FACE OF NEW STUD WALLS, UNLESS OTHERWISE INDICATED.
- 4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OF/CI EQUIPMENT. MINIMUM REQUIRED OPENINGS AND ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
- 5. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE SLAB UNLESS OTHERWISE NOTED.
- 6. COORDINATE EXACT SIZE AND PLACEMENT OF EQUIPMENT BASE AND HOUSEKEEPING PADS WITH EQUIPMENT TO BE PROVIDED.
- 7. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, 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 ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE OFFSET AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD ON BOTH SIDES.
- 8. LEVEL FLOORS SO THAT THEY DO NOT EXCEED A 1/4" VARIANCE IN A 10'-0" RADIUS.
- 9. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS AND POWERHOUSE. COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
- 10. WHEN PROVIDED, ALL EXTERIOR STEEL HANDRAILS, GUARDRAILS, AND BOLLARDS SHALL BE GALVANIZED AND PAINTED UNLESS OTHERWISE NOTED.
- 11. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
- 12. APPROVE FLOOR OUTLET LOCATIONS WITH ARCHITECT AND BUILDING MANAGEMENT PRIOR TO CORE
- 13. OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
- 14. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN CEILINGS SHALL BE POSITIONED AS REQUIRED BY
- 15. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE
- 16. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
- 17. SEALANTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR AS SELECTED BY THE ARCHITECT.
- 18. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
- 19. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, AND CABINET WORK WITH ADJACENT MATERIALS. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
- 20. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES INSTALLED WITHIN 2' OF A URINAL, WATER CLOSET, SINK OR LAVATORY SHALL BE MOISTURE SEALED.
- 21. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH, I.E. CEILING SYSTEM WIRE HANGERS FROM JOISTS AND/ OR BEAMS. IF NO JOIST OR BEAM, PROVIDE A



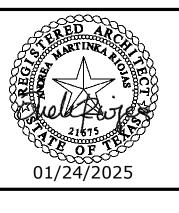
NUMBER OF OCCUPANTS 152 126 278 GROSS YES YES

SHEET NUMBER

ISSUE DATE:

CKD. BY:

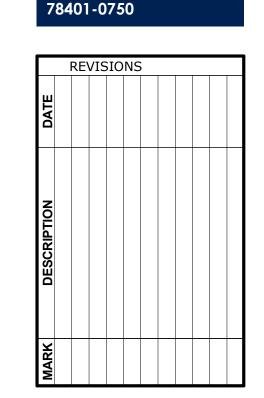
CONSTRUCTION DOCUMENTS

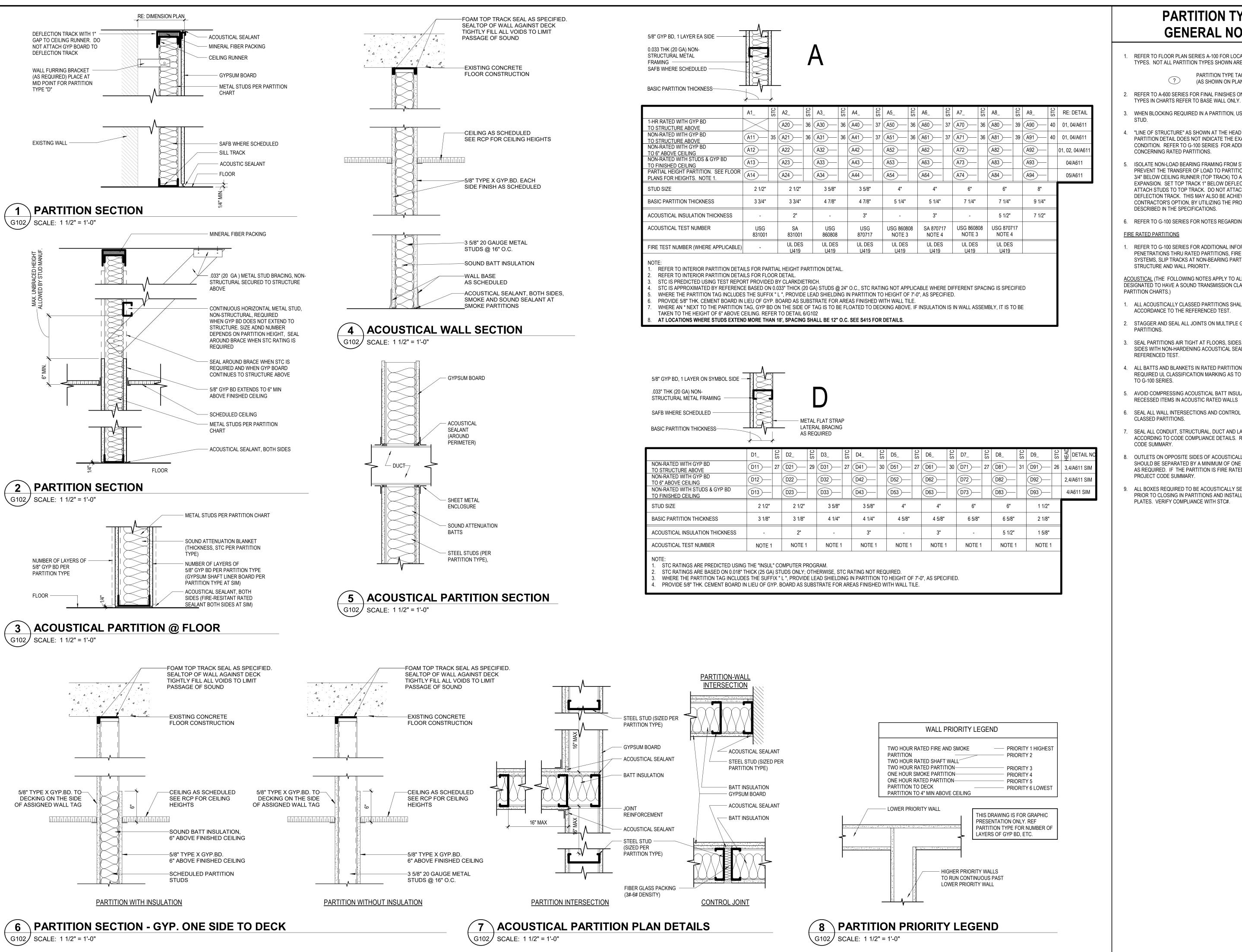




Suite 1250

Corpus Christi, TX





PARTITION TYPES GENERAL NOTES

REFER TO FLOOR PLAN SERIES A-100 FOR LOCATION OF PARTITION TYPES. NOT ALL PARTITION TYPES SHOWN ARE UTILIZED.

> PARTITION TYPE TAG (AS SHOWN ON PLAN A-111)

2. REFER TO A-600 SERIES FOR FINAL FINISHES ON PARTITIONS. PARTITION TYPES IN CHARTS REFER TO BASE WALL ONLY.

WHEN BLOCKING REQUIRED IN A PARTITION, USE A MINIMUM .033" (20 GA)

4. "LINE OF STRUCTURE" AS SHOWN AT THE HEAD CONDITIONS OF THE PARTITION DETAIL DOES NOT INDICATE THE EXACT CONSTRUCTION CONDITION. REFER TO G-100 SERIES FOR ADDITIONAL INFORMATION

ISOLATE NON-LOAD BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT THE TRANSFER OF LOAD TO PARTITION FRAMING. STOP STUDS 3/4" BELOW CEILING RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL EXPANSION. SET TOP TRACK 1" BELOW DEFLECTION CHANNEL. DO NOT ATTACH STUDS TO TOP TRACK. DO NOT ATTACH GYPSUM BOARD TO THE DEFLECTION TRACK. THIS MAY ALSO BE ACHIEVED, AT THE CONTRACTOR'S OPTION, BY UTILIZING THE PROPRIETARY SYSTEM

6. REFER TO G-100 SERIES FOR NOTES REGARDING STUDS AT OPENINGS.

REFER TO G-100 SERIES FOR ADDITIONAL INFORMATION ON PENETRATIONS THRU RATED PARTITIONS, FIRE RESISTANT JOINT SYSTEMS, SLIP TRACKS AT NON-BEARING PARTITIONS CONNECTION TO STRUCTURE AND WALL PRIORITY.

ACOUSTICAL (THE FOLLOWING NOTES APPLY TO ALL PARTITIONS DESIGNATED TO HAVE A SOUND TRANSMISSION CLASS (STC) RATING ON THE PARTITION CHARTS.)

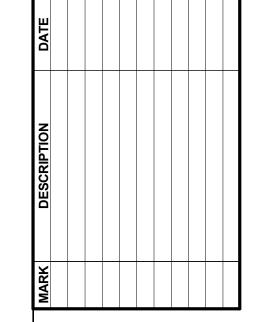
- 1. ALL ACOUSTICALLY CLASSED PARTITIONS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE REFERENCED TEST.
- . STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER
- 3. SEAL PARTITIONS AIR TIGHT AT FLOORS, SIDES, AND CEILINGS ON BOTH SIDES WITH NON-HARDENING ACOUSTICAL SEALANT IN ACCORDANCE TO
- 4. ALL BATTS AND BLANKETS IN RATED PARTITIONS MUST BEAR THE REQUIRED UL CLASSIFICATION MARKING AS TO FIRE-RESISTANCE. REFER
- 5. AVOID COMPRESSING ACOUSTICAL BATT INSULATION AT BLOCKING AND
- 6. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY CLASSED PARTITIONS.
- 7. SEAL ALL CONDUIT, STRUCTURAL, DUCT AND LARGE PIPE PENETRATIONS ACCORDING TO CODE COMPLIANCE DETAILS. REFERENCE PROJECT
- 8. OUTLETS ON OPPOSITE SIDES OF ACOUSTICALLY CLASSED PARTITIONS SHOULD BE SEPARATED BY A MINIMUM OF ONE STUD. SEAL OUTLETS IN AS REQUIRED. IF THE PARTITION IS FIRE RATED THEN REFER TO
- 9. ALL BOXES REQUIRED TO BE ACOUSTICALLY SEALED SHALL BE SEALED PRIOR TO CLOSING IN PARTITIONS AND INSTALLING DEVICES AND COVER





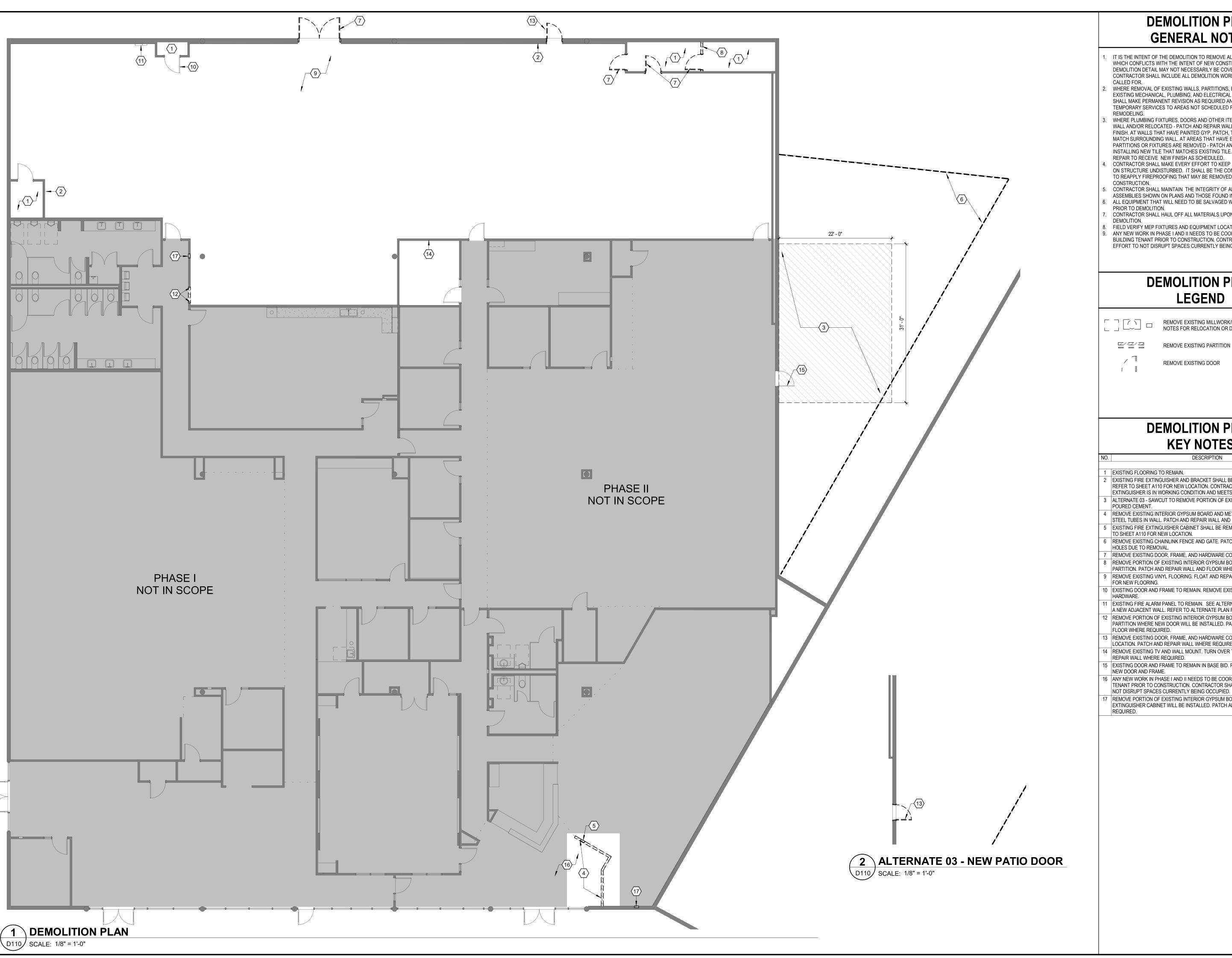
615 N. Upper Broadway **Suite 1250** Corpus Christi, TX 78401-0750

REVISIONS



4981 AYERS STRE CORPUS CHRISTI, TX

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



DEMOLITION PLAN 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
- 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
- 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.
- ANY NEW WORK IN PHASE I AND II NEEDS TO BE COORDINATED WITH THE BUILDING TENANT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAKE EVERY EFFORT TO NOT DISRUPT SPACES CURRENTLY BEING OCCUPIED.



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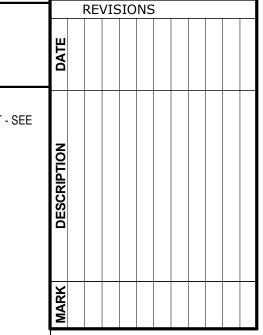
DEMOLITION PLAN LEGEND

REMOVE EXISTING MILLWORK/PLUMBING/EQUIPMENT - SEE NOTES FOR RELOCATION OR DEMOLITION NOTES



REMOVE EXISTING DOOR

REMOVE EXISTING PARTITION



DEMOLITION PLAN KEY NOTES

DESCRIPTION 1 EXISTING FLOORING TO REMAIN.

EXISTING FIRE EXTINGUISHER AND BRACKET SHALL BE REMOVED AND RELOCATED REFER TO SHEET A110 FOR NEW LOCATION. CONTRACTOR TO ENSURE EXISTING EXTINGUISHER IS IN WORKING CONDITION AND MEETS TESTING REQUIREMENTS. ALTERNATE 03 - SAWCUT TO REMOVE PORTION OF EXISTING ASPHALT FOR NEW

REMOVE EXISTING INTERIOR GYPSUM BOARD AND METAL STUD PARTITION. REMOVE STEEL TUBES IN WALL. PATCH AND REPAIR WALL AND FLOOR WHERE REQUIRED. EXISTING FIRE EXTINGUISHER CABINET SHALL BE REMOVED AND RELOCATED. REFEI

TO SHEET A110 FOR NEW LOCATION. REMOVE EXISTING CHAINLINK FENCE AND GATE. PATCH AND REPAIR CONCRETE

HOLES DUE TO REMOVAL.

REMOVE EXISTING DOOR, FRAME, AND HARDWARE COMPLETE. REMOVE PORTION OF EXISTING INTERIOR GYPSUM BOARD AND METAL STUD PARTITION. PATCH AND REPAIR WALL AND FLOOR WHERE REQUIRED.

REMOVE EXISTING VINYL FLOORING. FLOAT AND REPAIR EXISTING FLOOR TO PREP FOR NEW FLOORING.

10 EXISTING DOOR AND FRAME TO REMAIN. REMOVE EXISTING HARDWARE FOR NEW EXISTING FIRE ALARM PANEL TO REMAIN. SEE ALTERNATE 01 PLAN TO RELOCATE

A NEW ADJACENT WALL. REFER TO ALTERNATE PLAN FOR EXACT LOCATION. REMOVE PORTION OF EXISTING INTERIOR GYPSUM BOARD AND METAL STUD PARTITION WHERE NEW DOOR WILL BE INSTALLED. PATCH AND REPAIR WALL AND FLOOR WHERE REQUIRED.

REMOVE EXISTING DOOR, FRAME, AND HARDWARE COMPLETE FOR NEW IN SAME LOCATION. PATCH AND REPAIR WALL WHERE REQUIRED.

14 REMOVE EXISTING TV AND WALL MOUNT. TURN OVER TO OWNERS. PATCH AND REPAIR WALL WHERE REQUIRED. 15 EXISTING DOOR AND FRAME TO REMAIN IN BASE BID. REFER TO ALTERNATE 02 FOR

NEW DOOR AND FRAME. 16 ANY NEW WORK IN PHASE I AND II NEEDS TO BE COORDINATED WITH THE BUILDING TENANT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAKE EVERY EFFORT TO

REMOVE PORTION OF EXISTING INTERIOR GYPSUM BOARD WHERE NEW FIRE EXTINGUISHER CABINET WILL BE INSTALLED. PATCH AND REPAIR WALL WHERE

CONSTRUCTION DOCUMENTS ISSUE DATE: CKD. BY:



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
- 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. 8. FIELD VERIFY MEP FIXTURES AND EQUIPMENT LOCATIONS.



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REVISIONS

DEMOLITION RCP LEGEND

EXISTING WALL TO REMOVE

EXISTING WALL TO REMAIN

EXISTING SUSPENDED ACOUSTIC CEILING TO

EXISTING 2'X4' LIGHT FIXTURE TO REMOVE

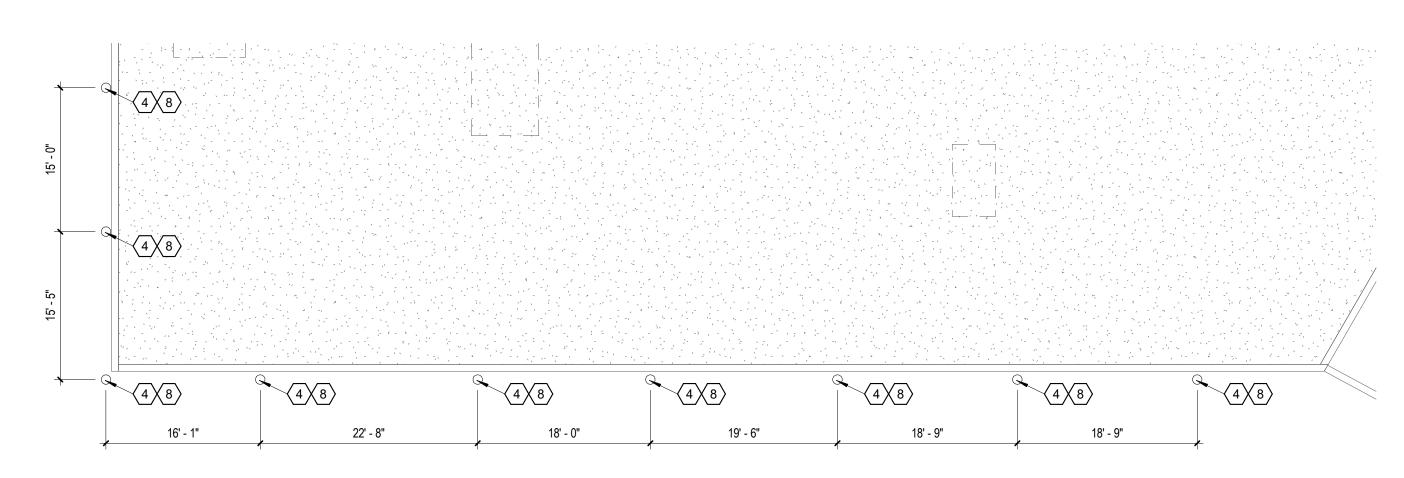
EXISTING 2'X4' SUSPENDED LIGHT FIXTURE TO REMOVE

DEMOLITION RCP KEY NOTES

1 REMOVE EXISTING LIGHT FIXTURES. EXISTING LIGHT FIXTURES TO REMAIN.
EXISTING MECHANICAL UNIT.

4981 AYERS STREET CORPUS CHRISTI, TX 78415

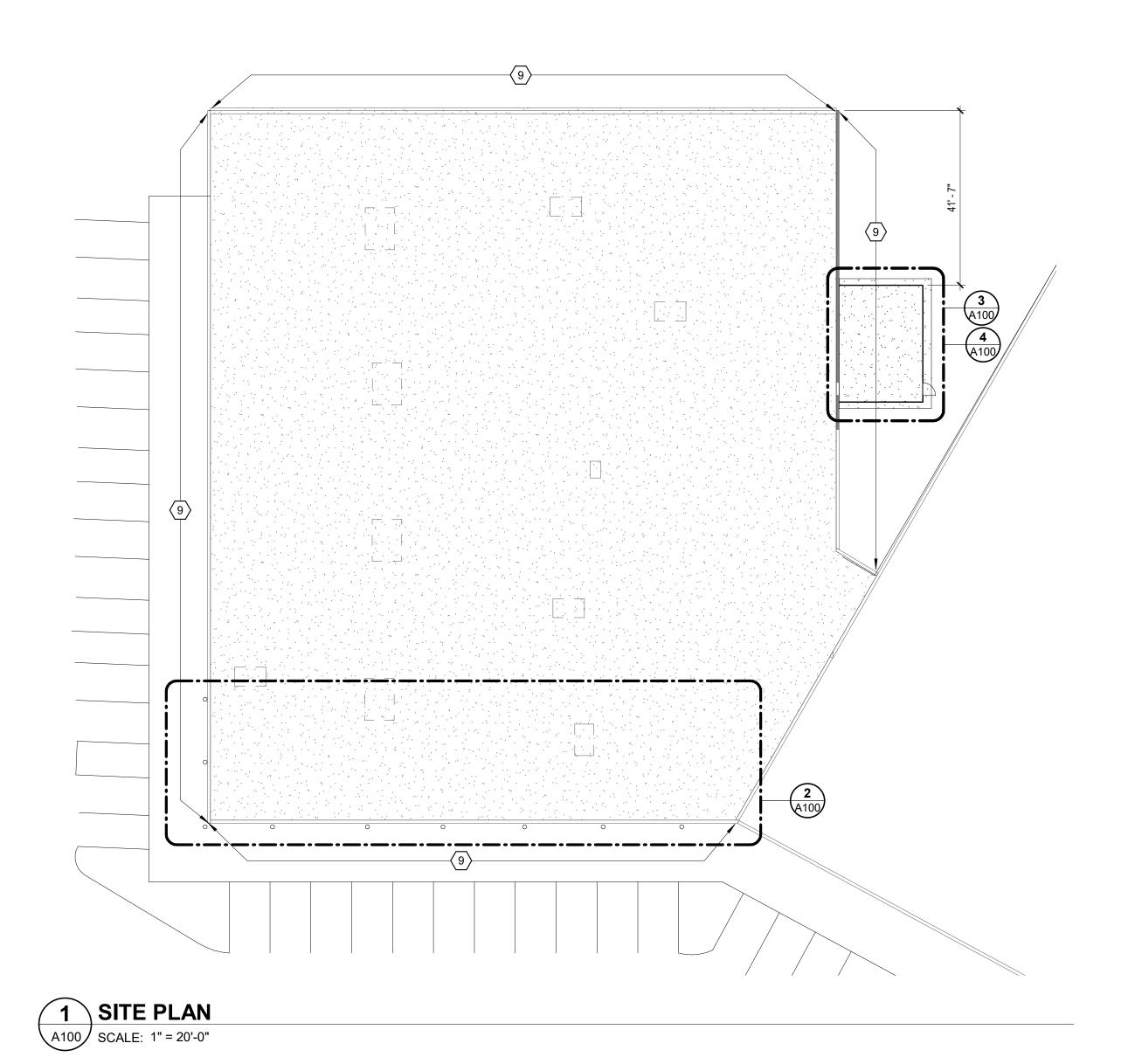
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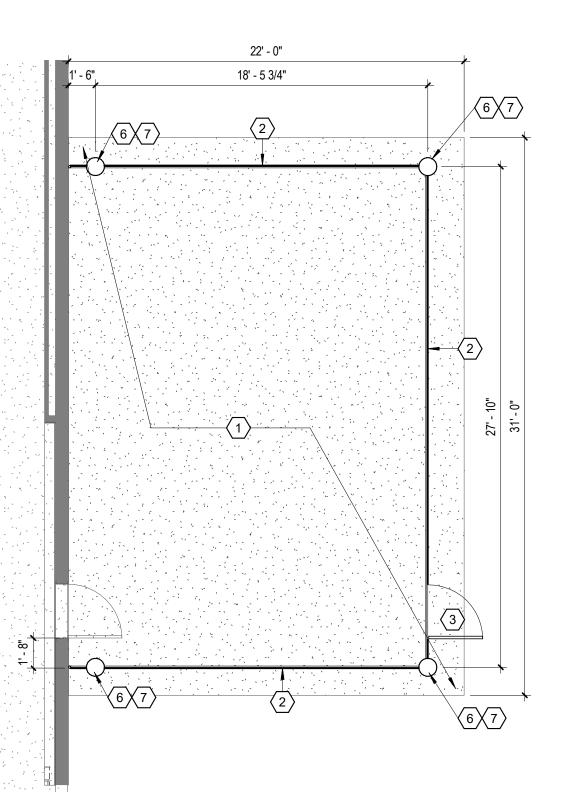


2 ENLARGED PLAN - CANOPY POSTS - ALTERNATE 02

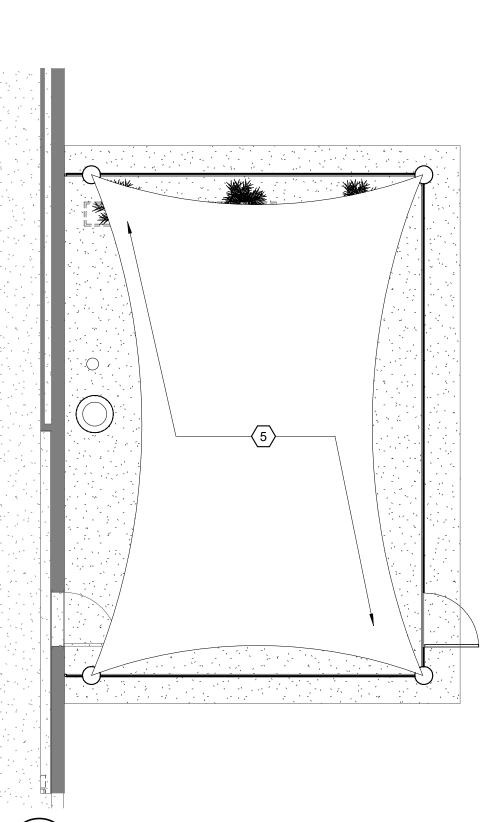
A100 SCALE: 1" = 10'-0"

S PADRE ISLAND ACCESS RD





3 ENLARGED PLAN - PATIO - ALTERNATE 03
SCALE: 3/16" = 1'-0"

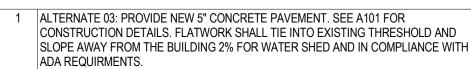


4 ENLARGED - PLAN SHADE SAIL - ALTERNATE 03
SCALE: 3/16" = 1'-0"

EXTERIOR ELEVATIONS KEY NOTES

DES

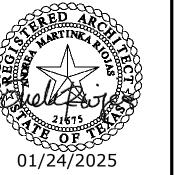
EXIT DEVICE.



2 ALTERNATE 03 - PROVIDE 6' HIGH ALUMINUM NO-CLIMB PICKET/SECURITY FENCE.

- COLOR: BLACK. REFER TO ELEVATIONS FOR DETAILS.

 3 ALTERNATE 03 PROVIDE MATCHING ALUMINUM PEDESTRIAN GATE WITH PANIC
- 4 ALTERNATE 02 CANOPY POST. COLOR: TBD. REFER TO ELEVATIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- 5 ALTERNATE 03 PROVIDE SHADE SAIL. FABRIC COLOR: TBD. SHADE MUST BE REMOVED DURING HIGH WINDS.
- 6 ALTERNATE 03 PROVIDE POST FOR SHADE SAIL ATTACHMENT. COLOR: TBD. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- 7 ALTERNATE 03 TIE FENCE INTO COLUMN POSTS.
- 8 ALTERNATE 02 REPAIR ANY DAMAGE TO CONCRETE WHERE POSTS ARE INSTALLED.
- 9 EXTERIOR BUILDING FACADE TO RECEIVE NEW PAINT AS SCHEDULED. REFER TO EXTERIOR ELEVATIONS FOR PAINT LOCATIONS.





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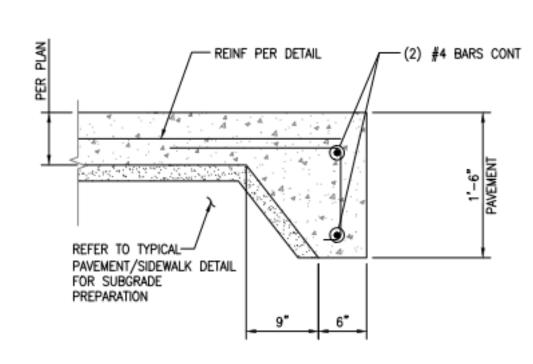
WORKFORCE SOLUTIONS
PHASE III RENOVATION
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

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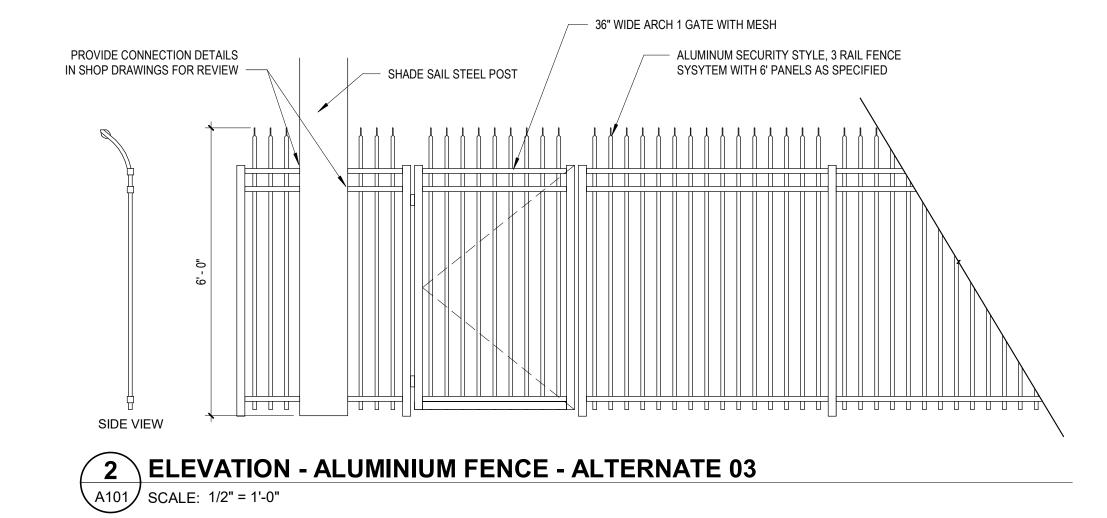
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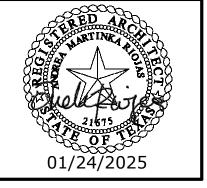


DETAIL - CONCRETE PAVEMENT THICKENED EDGE

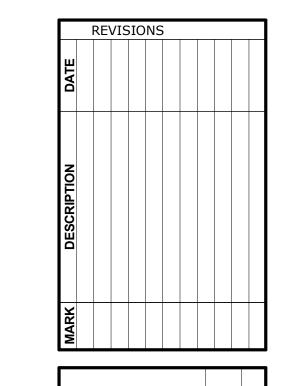
1 - ALTERNATE 03

A101 NTS









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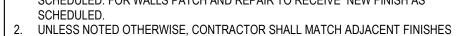
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RENOVATION PLAN GENERAL NOTES

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



- 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 DISCREPENCIES. 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
- PROVIDE POWER POLES. REFER TO ELECTRICAL DRAWINGS FOR MORE
- 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.



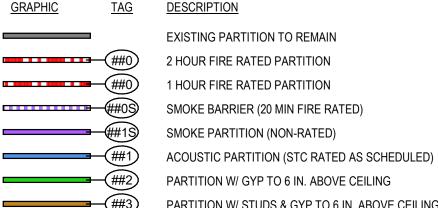
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REVISIONS

PARTITION TYPES LEGEND

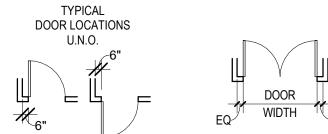


PARTITION W/ GYP TO 6 IN. ABOVE CEILING PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING

PARTIAL HEIGHT PARTITION DEMOUNTABLE PARTITION

EXISTING TO REMAIN. SEE FLOOR PLAN FOR KEYNOTE DESCRIPTION ON EXTERIOR WALLS.

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. *L DESIGNATES LEAD SHIELDING. SEE FLOOR PLAN FOR LEAD SHIELDING REQUIREMENTS.



RENOVATION PLAN KEY NOTES

1 PAINT BOTTOM PORTION OF WALL AT STOREFRONT PT-4 AS SCHEDULED. REFER T ELEVATIONS.

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 ATTI STOCK BEFORE ORDERING NEW LVT.

- 3 MODIFY EXISTING WALL TO EXTEND TO STRUCTURE. PROVIDE BATT INSULATION AN 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.
- REFER TO ELEVATIONS FOR DETAILS. REFER TO ALTERNATE 01. PROVIDE INFILL AT EXTERIOR WALL TO MATCH EXISTING CONSTRUCTION AND THICKNESS. PAINT TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR
- 9 INFILL EXISTING WALL WHERE DOOR AND FRAME WERE REMOVED. TEXTURE TO
- MATCH ADJACENT AND PAINT AS SCHEDULED. RELOCATE EXISTING RECESSED FIRE EXTINGUISHER CABINET. PATCH AND REPAIR WALL WHERE REQUIRED. CABINET SHALL BE INSTALLED SO THAT FIRE
- EXTINGUISHER HANDLE IS 42" AFF. PROVIDE BATT INSULATION AND ONE LAYER OF 5/8" GYPSUM BOARD FINISH. PAINT AS SCHEDULED.
- PROVIDE AND INSTALL ROOM SIGNAGE. SIGNAGE SHALL BE MOUNTED IN COMPLIANCE WITH TAS REQUIREMENTS. REFER TO SHEET A810 FOR SIGNAGE TYPE
- ALTERNATE 01 RELOCATED EXISTING FIRE ALARM PANEL TO BE RECESSED IN NEW WALL. REFER TO MEP DRAWINGS AND ELEVATIONS FOR MORE INFORMATION. DEMOUNTABLE PARTITION (WALL SYSTEM THAT CAN BE REMOVED AND
- REINSTALLED IN DIFFERENT CONFIGURATIONS). REFER TO SPECIFICATIONS FOR MORE INFORMATION. PROVIDE IN-WALL BLOCKING FOR FUTURE TV INSTALLATION. PROVIDE HIGH AND
- LOW POWER AND DATA. REFER TO ELECTRICAL DRAWINGS FOR MORE 6 | SEAL ALL PENETRATIONS IN EXTERIOR WALL TO CREATE CONDITIONED SPACE.
- PARTITIONS EXTENDING MORE THAN 18' SHALL HAVE STUDS SPACED 12" ON CENTER. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- PROVIDE ELECTRICAL CONNECTIONS FOR ADDITIONAL CUBICLES BEING ADDED TO PHASE I & II. REFER TO ELECTRICAL DRAWINGS AND FURNITURE PLAN.
- PATCH AND PAINT WHERE TV WALL MOUNT WAS REMOVED. PROVIDE ACCESS CONTROL AS SPECIFIED. REFER TO SPECIAL SYSTEMS DRAWING FOR MORE INFORMATION.
- PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINET AS SPECIFIED. CABINET SHALL BE INSTALLED SO THAT FIRE EXTINGUISHER HANDLE IS 42" AFF. PROVIDE NEW HARDWARE. REFER TO DOOR AND HARDWARE SCHEDULE.
- 24 PROVIDE AUDIO/VISUAL RING CAMERA CONVEYED TO FRONT RECEPTION DESK.
- REFER TO SPECIAAL SYSTEMS DRAWINGS FOR MORE INFORMATION. 25 PROVIDE 1" ALUMINUM BLINDS.

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PHASE:

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CONSTRUCTION

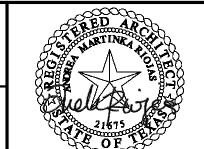
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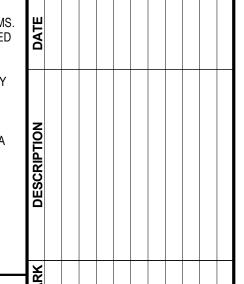
DIMENSION PLAN GENERAL NOTES

- 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 ENCASEMENT, 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 ENCASEMENT, 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'-6" CLEAR AT THE PULL SIDE OF EVERY DOOR (EXCLUDING PATIENT BEDROOMS), UNLESS SPECIFICALLY DIMENSIONED, NOTED architects & associates 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. 10. 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.
- 1. REFER TO SHEET A610, "INTERIOR FINISH PLAN" FOR WALL PROTECTION LOCATIONS.
- 12. 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.
- 13. ALL ELECTRICAL AND DATA OUTLET BOXES SHALL BE INSTALLED IN A STAGGERED CONFIGURATION WITH ONE STUD MIN. SEPARATING THE BOXES. 14. 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. 15. SEE LIFE SAFETY PLAN ON SHEET G101 FOR FIRE EXTINGUISHER LOCATIONS.
- 16. SEE SPECIFICATIONS FOR SIGNAGE ALLOWANCE. EACH ROOM SHALL RECEIVE A ROOM SIGN IN COMPLIANCE WITH TAS REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL.
- 17. REFER TO SHEET G101 FOR ADDITIONAL GENERAL NOTES.





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REVISIONS

PARTITION TYPES LEGEND

<u>TAG</u> <u>DESCRIPTION</u> <u>GRAPHIC</u> (##0) SMOKE BARRIER (20 MIN FIRE RATED) SMOKE PARTITION (NON-RATED)

EXISTING PARTITION TO REMAIN 2 HOUR FIRE RATED PARTITION 1 HOUR FIRE RATED PARTITION

ACOUSTIC PARTITION (STC RATED AS SCHEDULED)

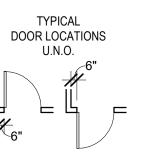
PARTITION W/ GYP TO 6 IN. ABOVE CEILING

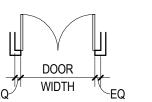
DEMOUNTABLE PARTITION

EXISTING TO REMAIN. SEE FLOOR PLAN FOR KEYNOTE DESCRIPTION ON EXTERIOR WALLS.

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. *L DESIGNATES LEAD SHIELDING. SEE FLOOR PLAN FOR LEAD SHIELDING REQUIREMENTS.





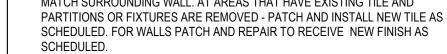
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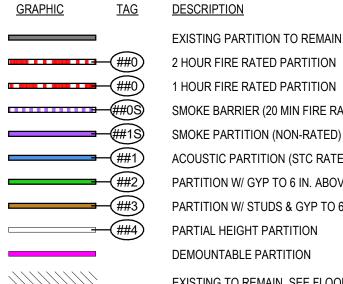
RENOVATION RCP GENERAL NOTES

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



- 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 DISCREPENCIES.
- 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 MECHNICAL EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING BLACK FINISH.

PARTITION TYPES LEGEND



DESCRIPTION

EXISTING PARTITION TO REMAIN 2 HOUR FIRE RATED PARTITION

SMOKE BARRIER (20 MIN FIRE RATED) SMOKE PARTITION (NON-RATED)

ACOUSTIC PARTITION (STC RATED AS SCHEDULED) PARTITION W/ GYP TO 6 IN. ABOVE CEILING

architects & associates

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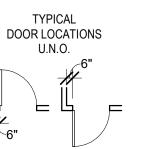
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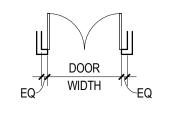
PARTITION W/ STUDS & GYP TO 6 IN. ABOVE CEILING PARTIAL HEIGHT PARTITION

DEMOUNTABLE PARTITION

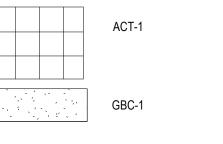
EXISTING TO REMAIN. SEE FLOOR PLAN FOR KEYNOTE DESCRIPTION ON EXTERIOR WALLS.

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 6/G102 AND SHEET A111 DIMENSION PLAN FOR DETAILS. 3. *L DESIGNATES LEAD SHIELDING. SEE FLOOR PLAN FOR LEAD SHIELDING REQUIREMENTS.





RENOVATION RCP LEGEND



2'X2' FIXTURE 1'X4' FIXTURE

SUSPENDED LINEAR FIXTURE

CEILING TAG WITH HEIGHT

SUSPENDED 8" CYLINDER PENDANT

RECESSED DOWN LIGHT 6"

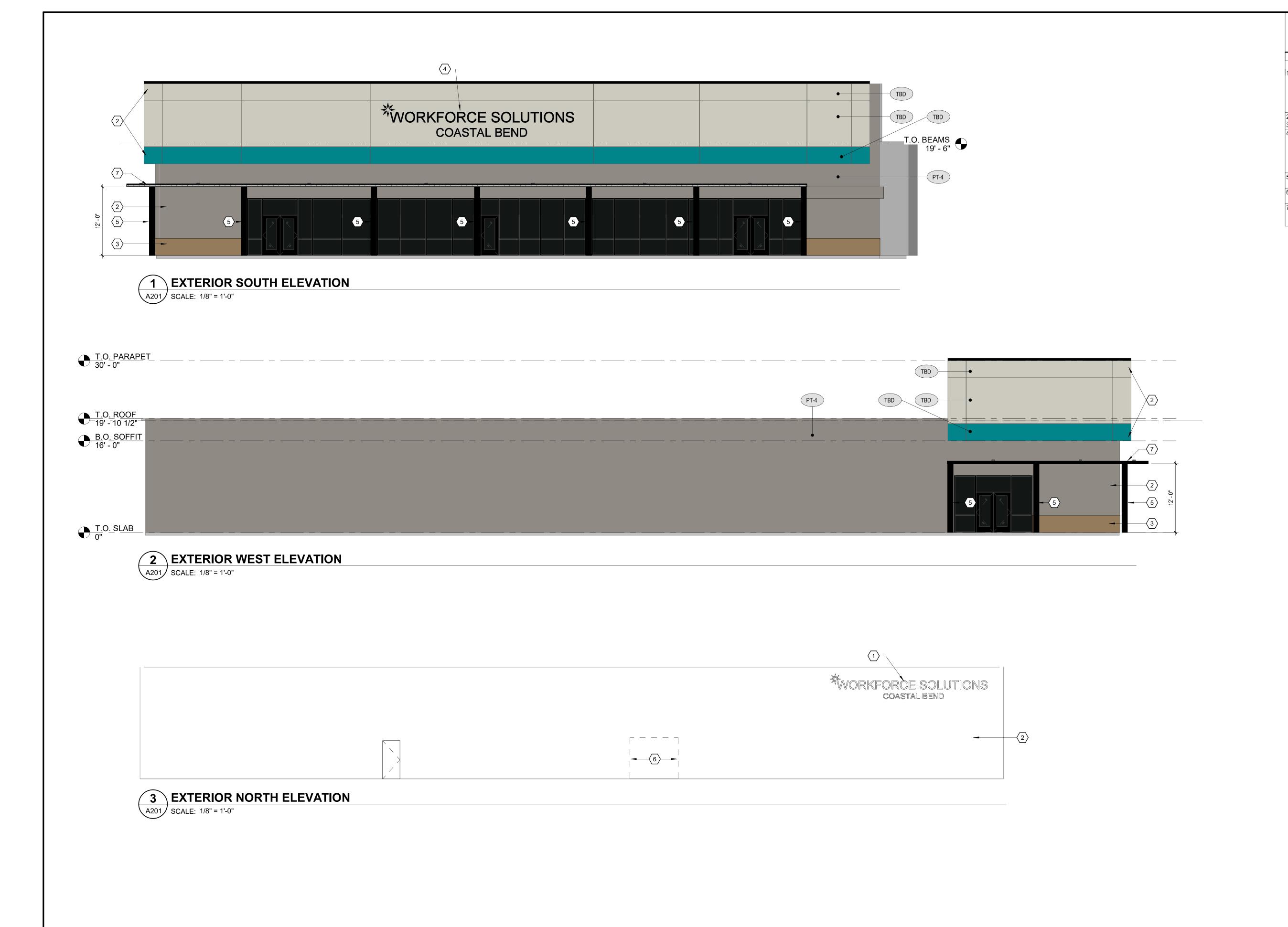
RENOVATION RCP KEY NOTES DESCRIPTION

- CONTINUOUS CEILING GRID WHERE DEMOUNTABLE PARTITIONS ARE LOCATED. PROVIDE CEILING RUNNERS FOR DEMOUNTABLE WALL ATTACHMENT. OPEN TO STRUCTURE ABOVE.
- 3 UNLIT BAFFLE.
- 4 OVERHEAD WALL PARTITION TO DECK FOR DEMOUNTABLE WALL ATTACHMENT. REFER TO SECTION DETAIL 1/A310.
- SEE ELECTRICAL DRAWINGS FOR POWER POLE LOCATIONS. CONTRACTOR SHALL PROVIDE BRACING TO STRUCTURE.
- ALTERNATE 02 CANOPY WITH SOFFIT AND CAN LIGHTS. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 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.

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EXTERIOR ELEVATIONS KEY NOTES

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.

EXTERIOR BUILDING FACADE TO RECEIVE NEW PAINT AS SCHEDULED. EXISTING TILE TO REMAIN.

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.

PAINTED COLUMN. COLOR: TBD. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

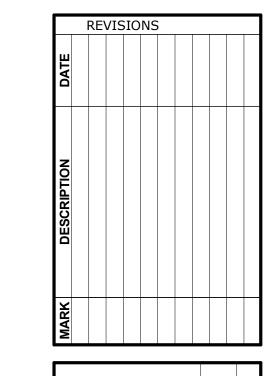
PROVIDE INFILL AT EXTERIOR WALL TO MATCH EXISTING CONSTRUCTION AND THICKNESS. PAINT TO MATCH EXISTING.

ALTERNATE 02 - METAL CANOPY WITH SOFFIT AND CAN LIGHTS AS SPECIFIED. COLOR: TBD. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.



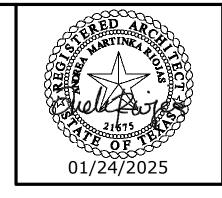


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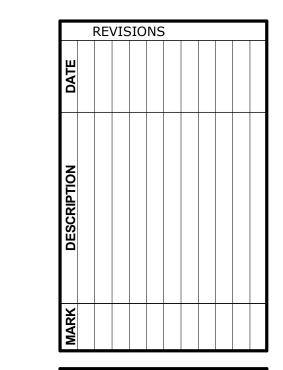


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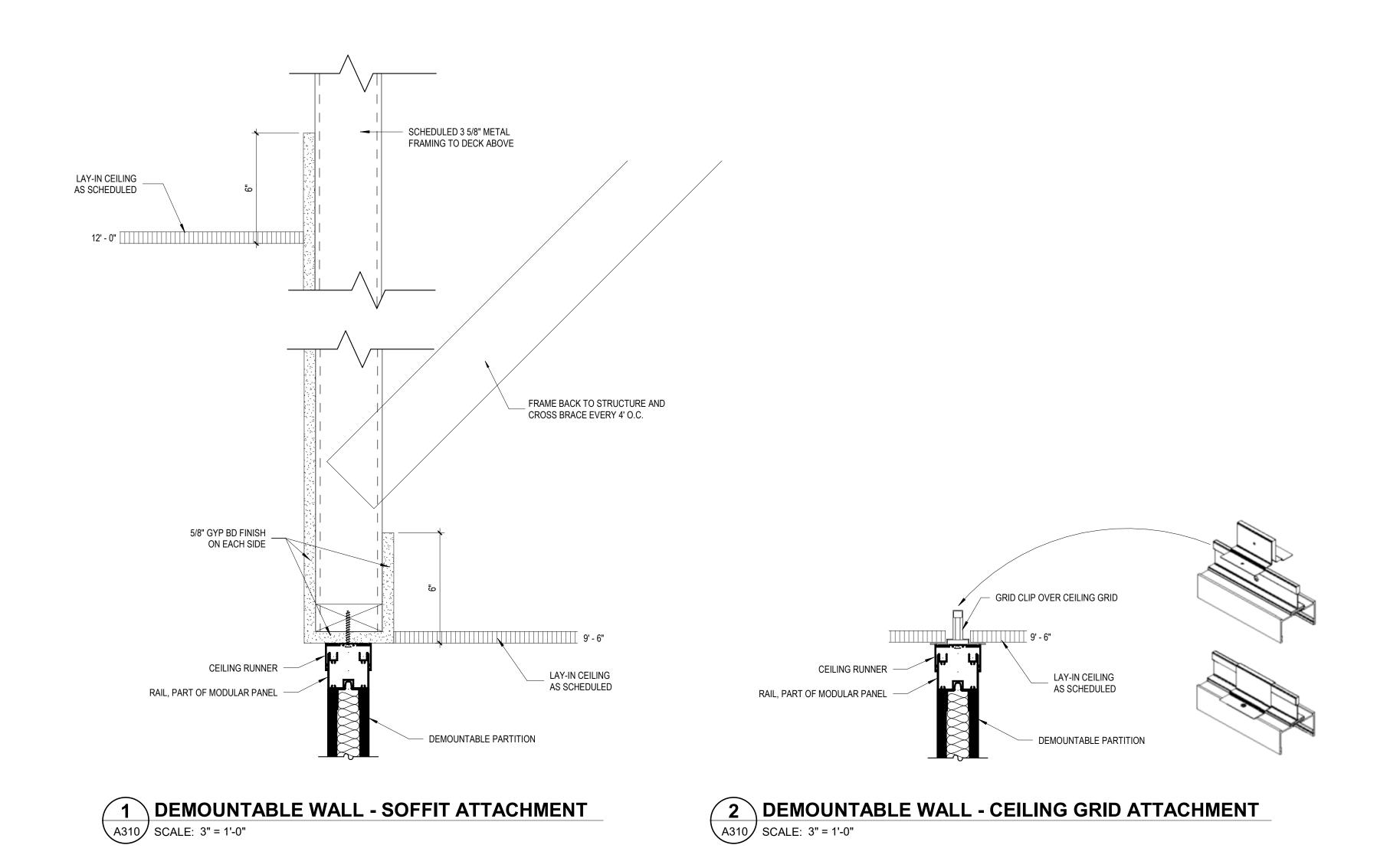
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WORKFORCE SOLUTIONS
PHASE III RENOVATION
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CKD. BY: AR

SHEET NUMBER

A310



RAIL, PART OF MODULAR PANEL

ALUMINUM BASE, 4"

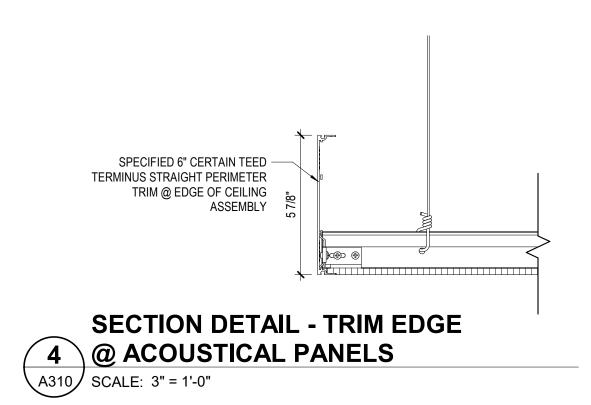
ADJUSTABLE SUPPORT ASSEMBLY, 4"
PART OF MODULAR PANEL

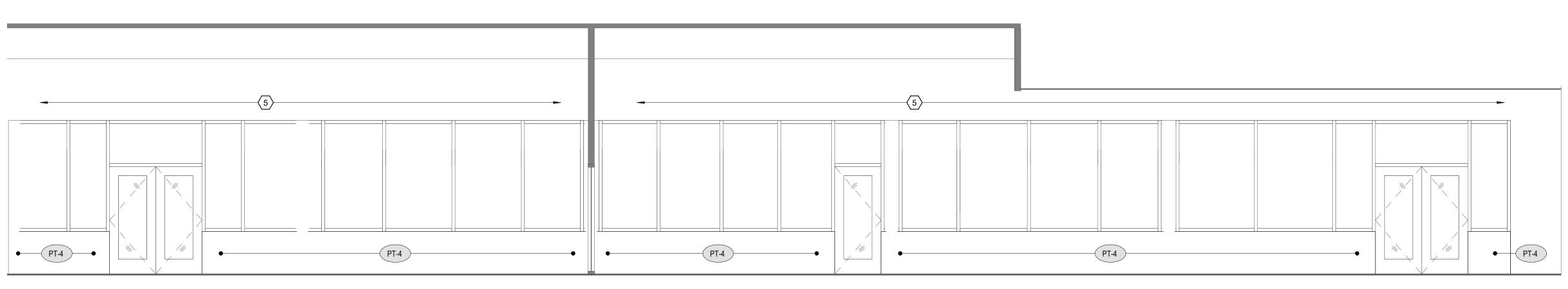
NARROW FLOOR RUNNER

FLOORING AS SCHEDULED

3 DEMOUNTABLE WALL - FLOOR

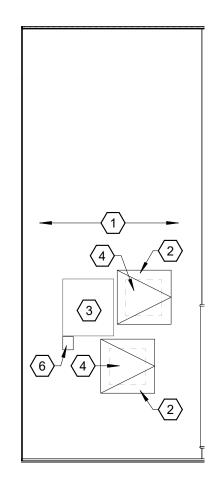
A310 SCALE: 1 1/2" = 1'-0"

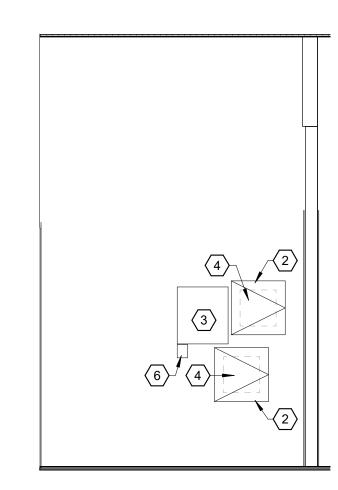




1 STOREFRONT

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





PIRE ALARM PANEL

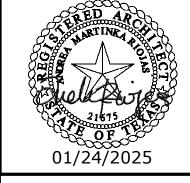
SCALE: 3/8" = 1'-0"



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
- ALL COUNTERTOPS SHALL BE SOLID SURFACE AS SCHEDULED.

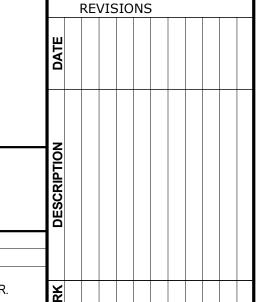
 HEIGHT OF COUNTERTOPS WITH DROP-IN SINKS TO MAINTAIN 34" AFF TO THE TOP
- OF THE SINK RIM.



INTERIOR ELEVATION **LEGEND**

- EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.
 - FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND
- TOILET ACCESSORY. REFER TO INTERIOR ELEVATIONS AND SCHEDULE.

CABINET WIDTH 24"
CABINET TYPE N1 (REF SHEET A420 FOR DESCRIPTIONS) architects & associates 615 N. Upper Broadway Suite 1250 Corpus Christi, TX 78401-0750



INTERIOR ELEVATION **KEY NOTES**

DESCRIPTION

- 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).
- 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. EXISTING WHITE PAINT TO REMAIN AS IS.
- BE CONCEALED.

FIRE ALARM PULL STATION SHALL BE LEFT EXPOSED, HOWEVER, CONDUIT SHALL

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202415 CONSTRUCTION DOCUMENTS PHASE: ISSUE DATE: 01/24/2025 CKD. BY:

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

HWD

BLACK

BLACK

BLACK

BLACK

BLACK

BLACK

BLACK

BLACK

BLACK

BLACK

BLACK

BLACK

FIRE

SET RATING NO.

DOOR PANEL TYPES

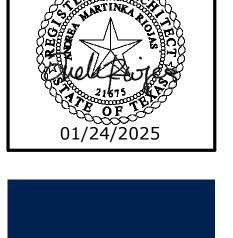
HEAT-TREATED CASING RETAINER CLIP AND SCREW - TYPICAL

STEEL CASING - TYPICAL PREFINISHED KNOCK

DOWN FRAME

FS

DOOI	R FRAME	E TYPES
2"	DOOR WIDTH	2"
	1 / A510	
DOOR HEIGHT		2 / A510
\$		
\	سئىس	





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	DATE	02/11/2025								
		PREBID ADDENDUM 01								
	MARK	1								
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1 PREBID ADDENDUM 01 02/11/2028	MARK DESCRIPTION DATE	02/11/2025	T MARK

INTERIOR FRAME TYPES

1 3/4"

1 3/4"

7' - 0"

7' - 0" 1 3/4"

FS

FS

DOOR

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

SCW

SCW

THK. TYPE MATERIAL FINISH TYPE DEPTH

PLAM-1

PLAM-1

PLAM-1

PLAM-1

PLAM-1

PLAM-1

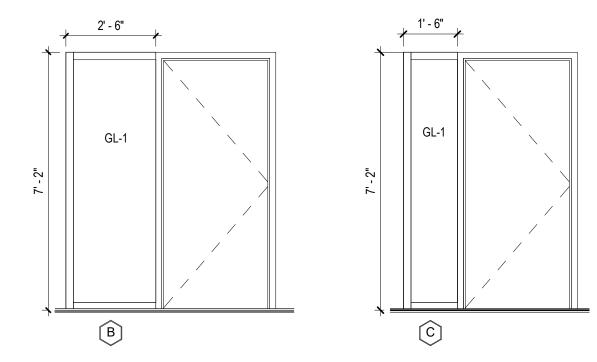
PLAM-1

PLAM-1

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

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

PANEL



FRAME

MATERIAL

MULLION

OVERALL

GL-1: TEMPERED GLASS

GLAZING TYPES

FROM

NAME

VRS OPEN SPACE

VRS OPEN SPACE

VRS OPEN SPACE

VRS OPEN SPACE

WFS OPEN SPACE

WFS OPEN SPACE

WFS OPEN SPACE

VRS OPEN SPACE

VRS OPEN SPACE

VRS OPEN SPACE

WFS OPEN SPACE

WFS OPEN SPACE

WFS OPEN SPACE

TO

NAME

VRS STORAGE

OFFICE

DEMOUNTABLE

DEMOUNTABLE DEMOUNTABLE

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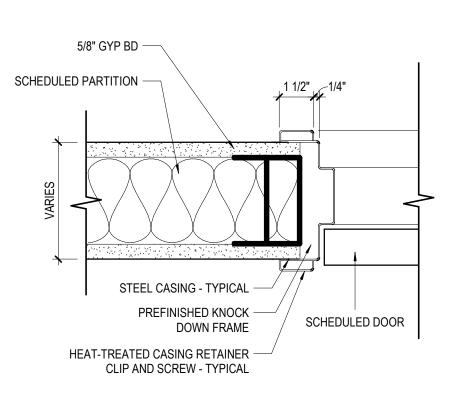
SCHEDULED PARTITION -

MTL STUD HEAD TRACK >

SCHEDULED DOOR -

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

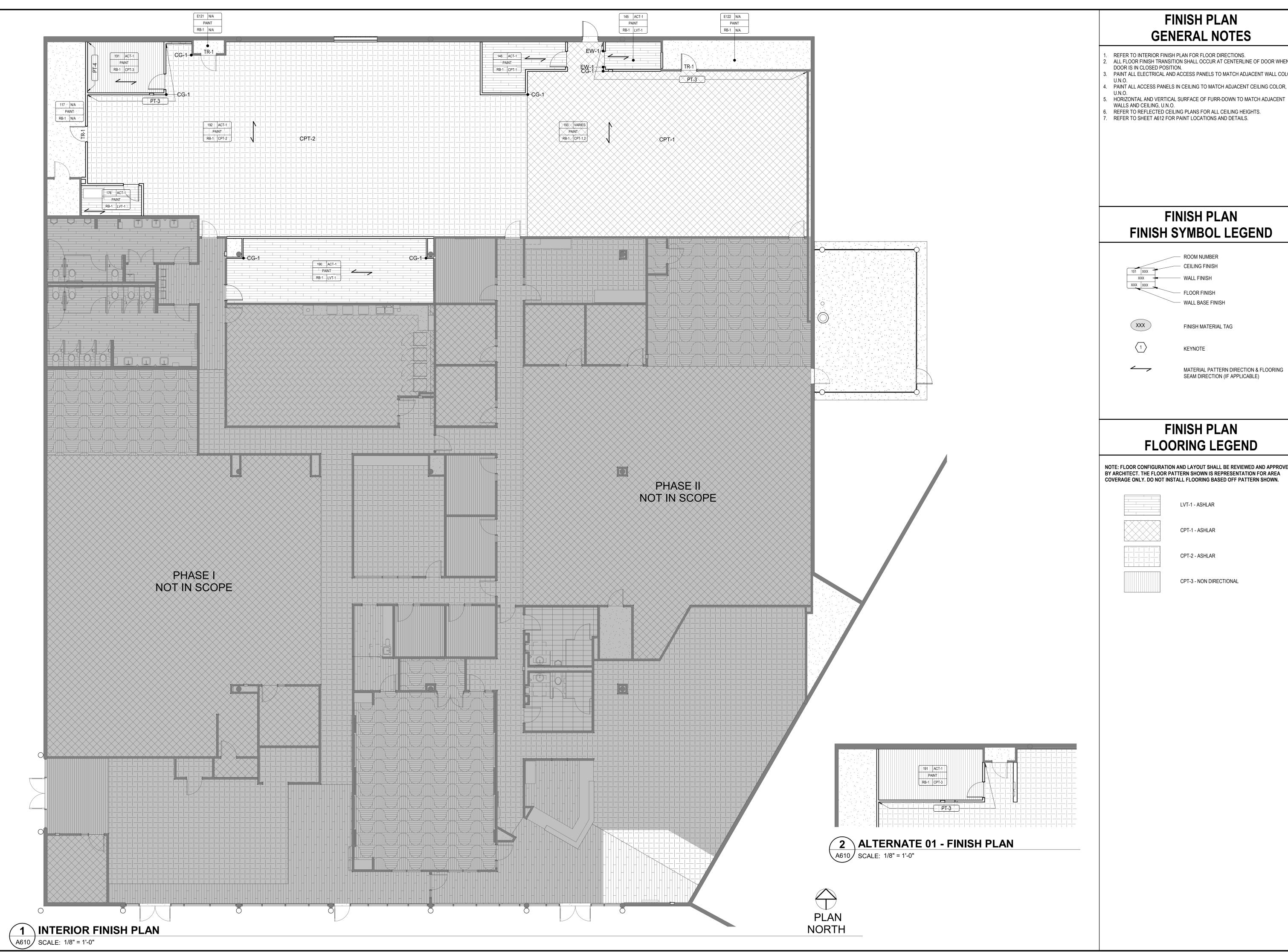
COMMENTS



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	\triangle
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, AUDIO/VISUAL AND RECEIVER BY OTHERS. SET 06: HINGE, STORAGE LOCKSET, ELECTRIC STRIKE, POWER SUPPLY, CLOSER, SILENCER, WALL STOP. CARD READER BY OTHERS.	3
SET 07: PASSAGE SET SET 08: PASSAGE SET, SURFACE CLOSER, WALL STOP, SILENCERS	3
NOTE: CARD READER HARDWARE AND ACCESS CONTROL INTEGRATION BY OTHERS.	3

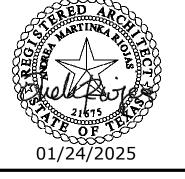
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FINISH PLAN GENERAL NOTES

- 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.
 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.

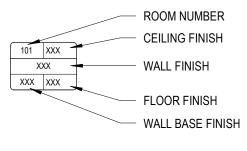




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78401-0750

FINISH PLAN FINISH SYMBOL LEGEND



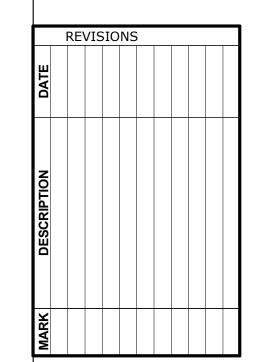


FINISH MATERIAL TAG

KEYNOTE

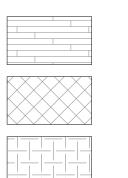


MATERIAL PATTERN DIRECTION & FLOORING SEAM DIRECTION (IF APPLICABLE)



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.



LVT-1 - ASHLAR

CPT-1 - ASHLAR

CPT-2 - ASHLAR

CPT-3 - NON DIRECTIONAL

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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

STORAGE

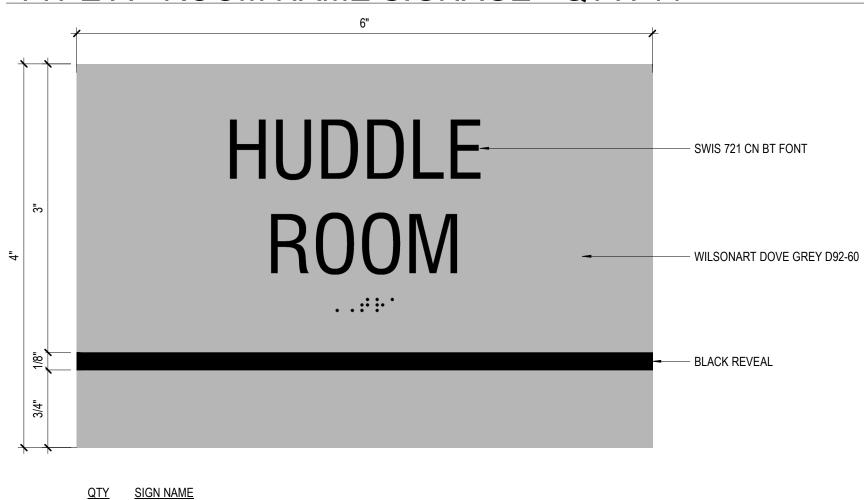
ELECTRICAL

FIRE RISER

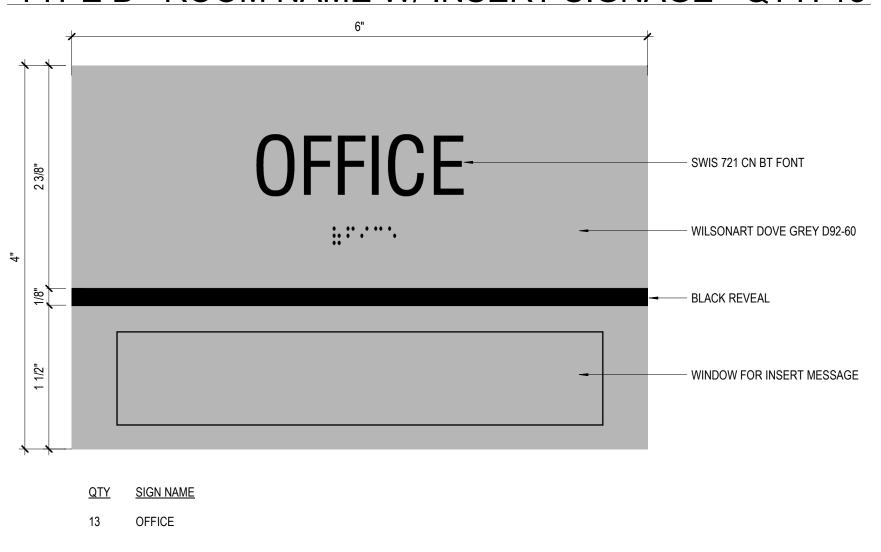
MECHANICAL

EXIT

HOUSEKEEPING



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



					ROO	M FINISH SCH	EDULE			
NUMBER	NAME	BASE FINISH	FLOOR FINISH	NORTH	SOUTH	EAST	WEST	CEILING FINISH	CEILING HEIGHT	AREA COMMENTS
	1	1	-	1					1	
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-4	ACT-1	9'-6"	148 SF
192	VRS OPEN SPACE	RB-1	CPT-2	PAINT	PAINT	PAINT	PAINT	ACT-1	12'-0"	1009 SF REFER TO FINISH PLAN FOR PAINT LOCATIONS.
193	WFS OPEN SPACE	RB-1	CPT-1,2	PAINT	PAINT	PAINT	PAINT	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

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

RUBBER BASE

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

<u>WALL</u>

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

CORNER GUARD

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

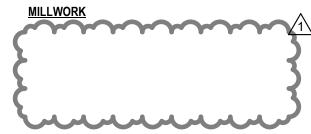
END WALL

EW-1 MANUF: INPRO SERIES: 160DBN BLUNOSE COLOR: WHITE SAND 0103

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"

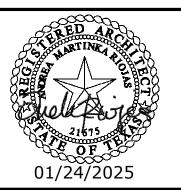


PLASTIC LAMINATE

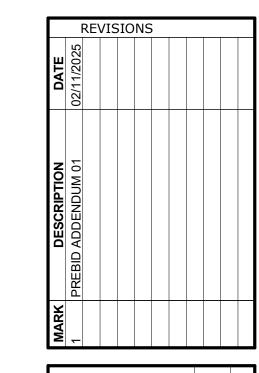
PLAM-1 MANUF: FORMICA COLOR: PECAN WOODLINE 5883-58 FINISH: MATTE INSTALLATION: VERTICAL GRAIN LOCATION: DOORS

TRANSITION TRIM

MANUF: ROPPE TYPE: ADAPTER COLOR: LUNAR DUST







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

CONSTRUCTION DOCUMENTS ISSUE DATE: CKD. BY:



FFE PLAN LEGEND

EQUIPMENT DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.

FURNITURE SCHEDULE

GLOBAL INDUSTRIAL, URBAN 6' PLASTIC PICNIC TABLE & BENCH SET, TAN, MODEL: WB348137

ALUMINUM RECTANGULAR PLANTER, CUSTOM COLOR POWDER COATED, SIZE TBD

5' HIGH, 24" DEEP, LOCKABLE

72" W X 24" D 60" W X 30" D 48" W X 24" D 48" W X 24" D

GLOBAL INDUSTRIAL, RUBBERMAID SMOKERS POLE, BLACK 4" DIA., MODEL: WBB53493

GLOBAL INDUSTRIAL, OUTDOOR SLATTED STEEL TRASH CAN WITH FLAT LID, 36 GALLON, BLACK, MODEL: WB237726BK

COMMENTS

OWNER PROVIDED OWNER INSTALLED COUNT

Yes

Yes

FURNITURE DESIGNATION. REFER TO INTERIOR ELEVATIONS, FURNITURE FIXTURE EQUIPMENT PLAN, SCHEDULES, AND SPECIFICATION.





Suite 1250 Corpus Christi, TX 78401-0750

	RE\	VIS	SIO	NS			
DATE							
DESCRIPTION							
MARK							

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

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

detailing standards unless shown otherwise.

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
- 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 where 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, adherences 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 satifying 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
- 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:
- 1. International Building Code, 2018 Edition with the Texas Windstorm Adopted
- 2. 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
- D. Light Guage Steel: Specification for the design of cold formed steel structural members, American Iron and Steel Institute, latest edition.

V. <u>DESIGN LOADS</u>

- A. Design Loads include the self weight of the structural elements and the following
- 2 psf

Collateral

superimposed loads:

- B. Live Loads: OCCUPANCY OR USE UNIFORM CONCENTRATED
- 1. Level 1
- 2. Roof (unreduced)

4. On Condensing Unit

Construction, Latest Edition.

- C. Wind Loads: Wind lateral load on structural frame is based on ASCE 7 using the following:
- 1. Basic Wind Speed (3 sec; ULT) Exposure C (1.0; ULT.) 3. Category
- 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:
- 1. 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. 2. Shear stress induced in a grab bar or seat by the application of 250 lbf shall be less than the

 $P_h = 77 \text{ PSF}, P_v = 60.7 \text{ PSF}$

- 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.
- 3. 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.
- 4. 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.
- 5. 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 wel 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
- 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
- E. General Contractor shall submit electronic copies of all submittals using a mutually agreeable method of transmission

F. Shop Drawings:

- 1. The General Contractor shall submit for Engineer review shop drawings for the following
- a. Reinforcing Steel
- b. Miscellaneous Steel
- d. Embedded Items (Plates, Angles, Bolts, etc) or items attache to the structural frame for building cladding attachment or for attachment of
- other items. (#) e. Concrete Mix Designs
- f. Structural steel g. Cold-Formed Metal Framing Members and Connection Material.
- h. 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.
- 2. 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:

- 1. Analyze backfill samples delivered by the contractor to determine compliance with graduation and quality requirements of the geotechnical report.
- 2. 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:

- 1. Secure composite samples of concrete at the jobsite in accordance with ASTM C172. 2. 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. 3. Test one cylinder @ 7 days, 2 @ 28 days, and hold one for 56 days (test only if 28 day
- strenath is low.) 4. 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.)
- 5. 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 (RDPiRC) 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

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	
Α	3000	NWT	1 1/2"	5-7			

- a) "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASTM 33 aggregate).
- b) Where w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength

other listed in these Structural Notes or Project Specifications.

- requirements.
- c) Where the w/c ratio is shown, it shall be adhered to regardless of strength requirements.
- d) "Strength" is required compressive cylinder strength at an age of 28 days.

Mix Usage Schedule

Description of Use	Concrete Class	Air Content
Piers Site Work Concrete	A A	

- B. Maximum shrinkage of the concrete shall be 0.03% at 28 days as determined by
- 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:
- 1. All Reinforcing Steel shall be ASTM A615, Grade 60 unless noted otherwise in the
- drawings or these notes. 2. 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
- C. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
- 1. Provide Class B lap at other location pending Engineer's approval.
- D. Welding of reinforcing steel will not be permitted unless specifically shown on
- E. Heat shall not be used in the fabrication or installation of reinforcement.
- F. Reinforcing steel clear cover shall be as follows:
- "Exterior Exposure" refers to concrete exposed to earth 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.

1-1/2" top, 3" side, 3" bottom

B. Texas Windstorm Submittals.

1. Piers

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 Attachement Anchorage must be submitted. Any submittal without proper certifications and data proving that the product meets TDI will be rejected.

- a. Exterior Canopies
- C. Texas Windstorm Inspections
- 1. Canopy Foundations
- 2. Aluminum Canopy CU Curb
- 4. CU Connection to Curb
- D. TDI Corrosion Resistance Requirements for Construction in the Designated Catastrophe Zone, as defiend by TDI, the following modifications must be made to the Fastener Schedule:
- 1. 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.
- 2. 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.
- 3. 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. 4. 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 Securing Mechanical Equipment, Garage Door Attachments, Roof Vent Attachments, Skylight Attachments,
- and Impact Protective Systems (Shutters). 5. Vents Areas Shal 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 wll 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

XI. <u>STRUCTURAL STEEL</u>

A. Material

- 1. All hot rolled steel members shall be new domestic, and conform to ASTM specification A6.
- 2. ASTM Specification and Grade. Clearly mark the grade on each member. 3. Unless noted otherwise structural steel members shall be:

can with stand impact force. Submittal without impact forces shall be rejected.

- a. Angles shall conform to ASTM A36. b. Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
- c. Structural steel plate shall conform to ASTM A36 or ASTM A572 Grade 50. See details for specific requirements.
- B. Fabrication
- 1. Fabricate and assemble structural assemblies in shop to greatest extent possible. 2. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the
- AISC Code of Standard Practice unless noted otherwise. 3. 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.
- 4. 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. 5. At square or rectangular hollow Structural shape members provide a fitted end cap at ends

C. Erection

- 1. 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. 2. Field cutting of structural steel or any field modifications to structural steel shall not be made

the exterior waterproofing surface if any.

as manufactured by Z.R.C. Company.

- without prior approval of the Engineer. 3. 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:

- 1. Building cladding support steel in space not air conditioned and/or exposed to moisture outside
- 2. Roof Mechanical support steel. 3. 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"
- 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
- 1. All welding shall conform to ANSI/AWS D1.1. latest edition.
- is larger.

2. Fillet welds with no size specified shall be 3/16" or minimum size required by AISC, whichever

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.
- A. All studs and runner tracks shall be formed from steel that corresponds to the minimum requirements of AISI Standards, Latest Edition.
- B. 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
- C. Cutting of light gage steel members shall be performed with a saw. Torch cutting shall not be
- D. 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. Horiziontal bracing for walls shall be provided at 4 ft o.c. maximum in accordance with the typical
- F. All power actuated fasteners shall be 0.157" diameter X-U fasteners as manufactured by Hilti 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

H. Product Identification

connected to support member per schedule

- 1. 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
- 2. All galvanized material to meet the requirements of ASTM with a minimum G60 coating.
- 3. Fastening of components shall be with #10 or #12 self tapping screws as noted in typical
- 4. 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.
- 6. Thicknesses
- 18 GA = 0.0451"
- 16 GA = 0.0566" 14 GA = 0.0713" 12 GA = 0.1017"

unless detailed otherwise.

- 1. Use three studs at the corner of all exterior walls.

5. Minimum 12" unpunched steel required at both ends of members.

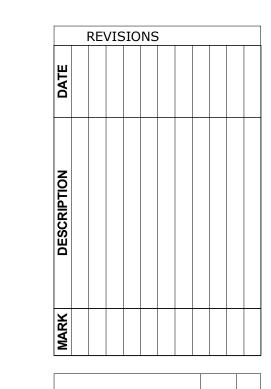
- 2. Ends of studs must seat firmly in runner track which must have full bearing on structure. 3. Attach each runner track leg to each stud flange with one #10-16 screw or #12 screw.
- 4. No notching or coping of stud is allowed. 5. All light gauge steel wall studs shall be full height or span to supports with no splices in stud
- 6. All horizontal bracing shall be installed at the time the wall is erected at. 7. All multiple studs attach together with 2-#12 TEK screws @ 12"o.c. vertically; no exceptions.
- 1. Use #10-16 screws for steel connections except as noted as plans and typical details.
- 2. A 3/4" (minimum) clearance must be maintained from all edges of steel members in locating 3. 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

- 1. 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 confirm to the
- Steel Network. Inc. (888)-474-4876 L. Headers
- 1. Full height studs of corresponding size and appropriate gauge are required immediately
- 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.

adjacent to the jamb studs at each side of openings, see typical details.

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



4981 AYERS STREET CORPUS CHRISTI, TX 78415

WORKF(PHASE

JOB NO. 202415 CONSTRUCTION PHASE: **DOCUMENTS** ISSUE DATE 01/24/2025

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CKD. BY:

SHEET NUMBER

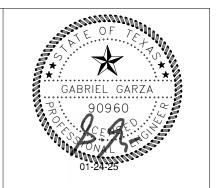
Author

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13313 Southwest Freeway, Suite 163
Sugar Land, Texas 77478
(281) 494-1230 (voice)
(281) 494-1234 (fax)

FIRM NO.:
EXPIRATION:
JOB NO.:

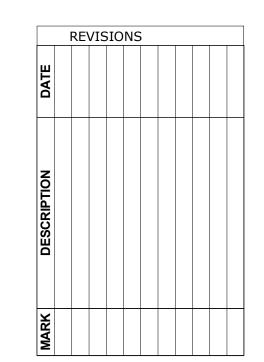


PLAN NOTES:

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 BEENPROVIDED 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.

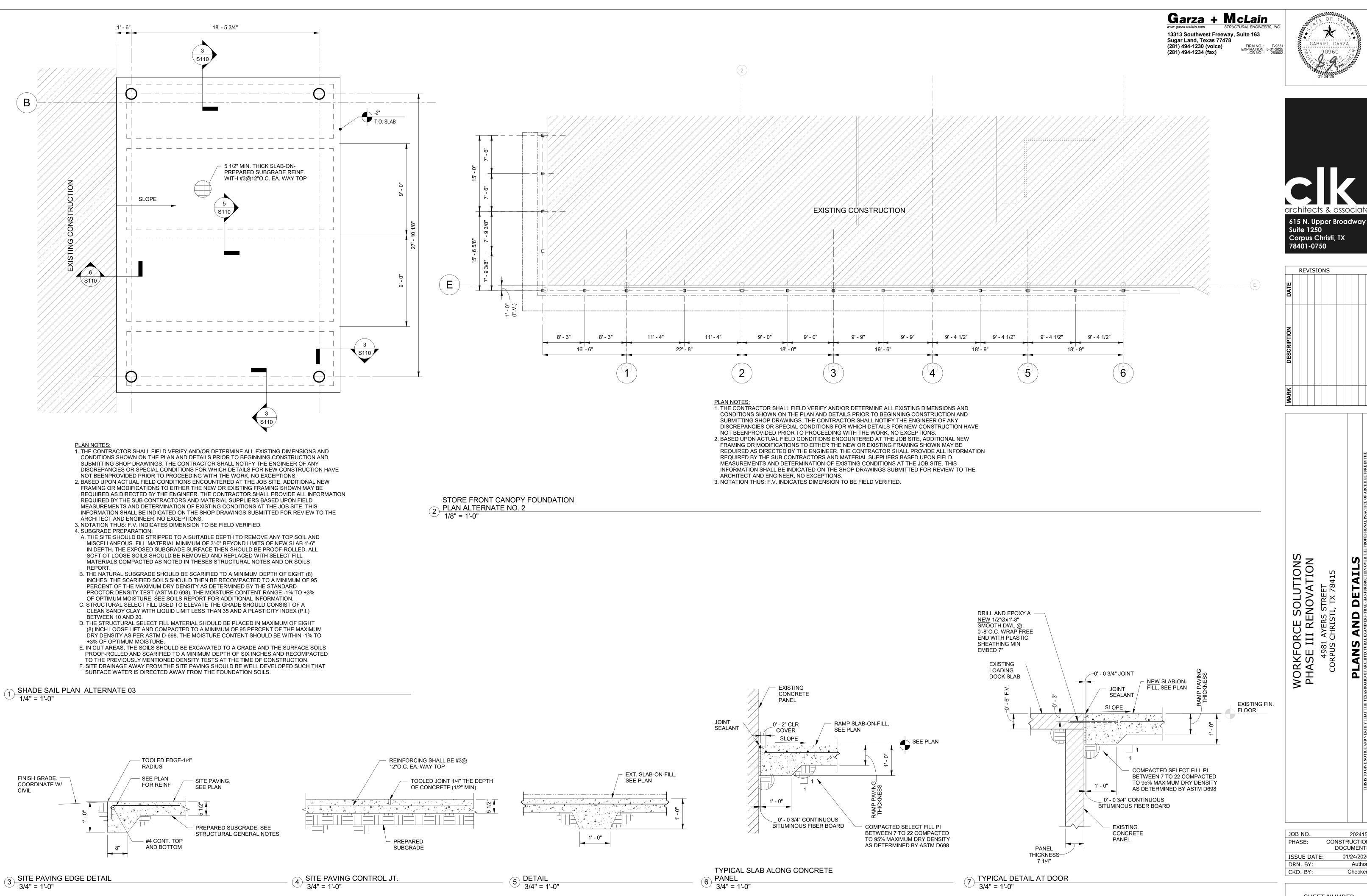




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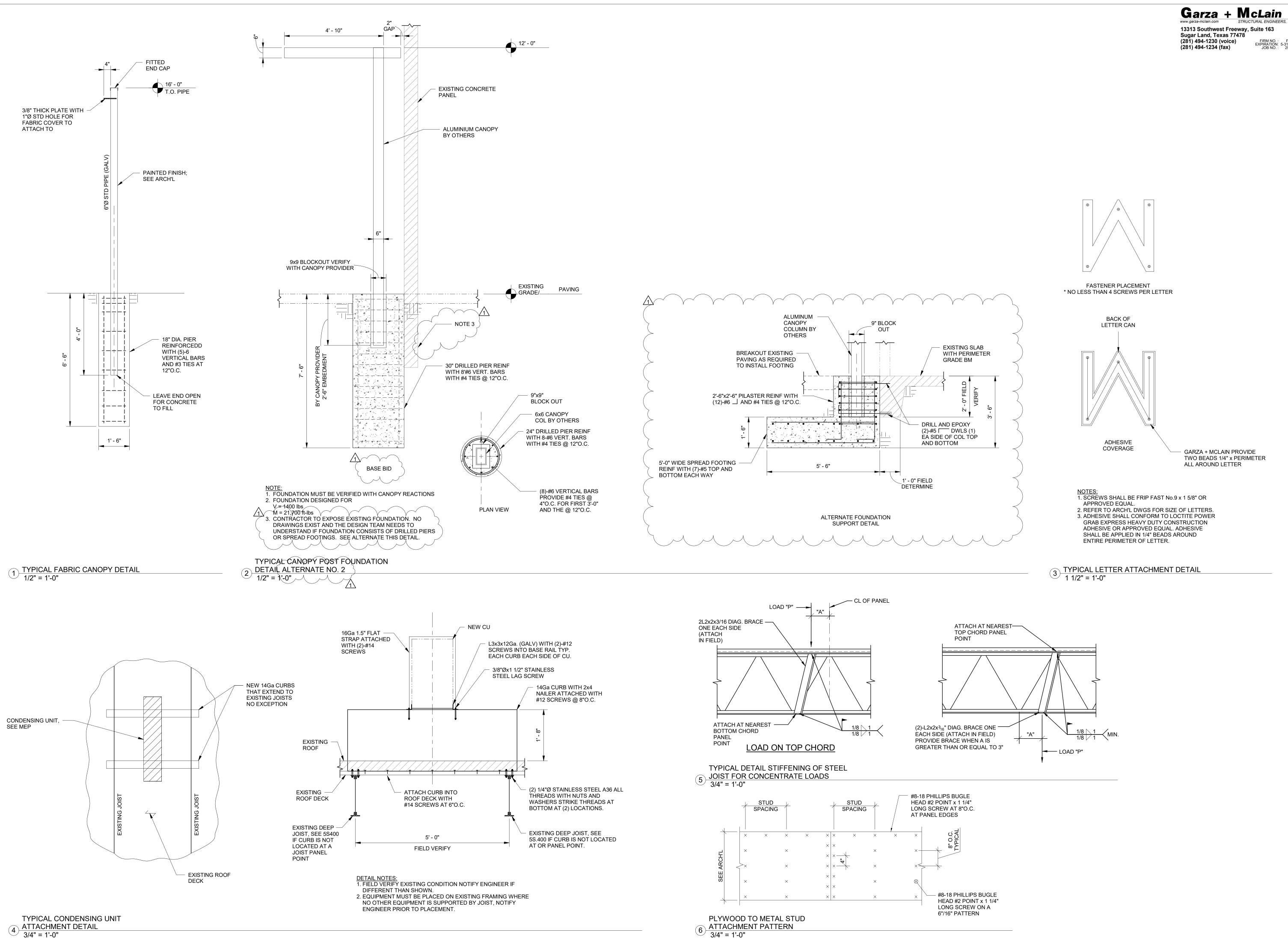
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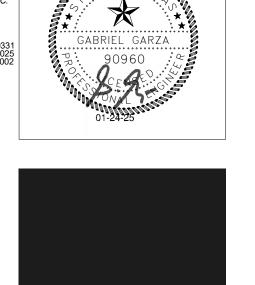
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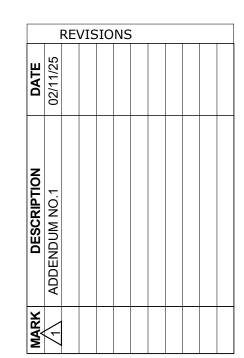
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architects & associate 615 N. Upper Broadway **Suite 1250** Corpus Christi, TX 78401-0750



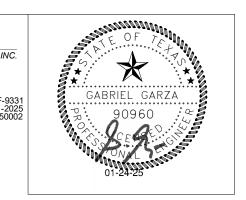
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WORKFORCE SOLUTIONS PHASE III RENOVATION

JOB NO. 202415 Project Status PHASE: ISSUE DATE Issue Date DRN. BY:

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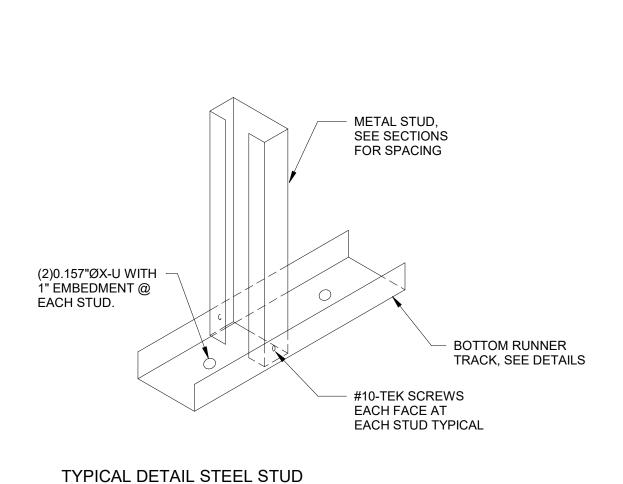
615 N. Upper Broadway

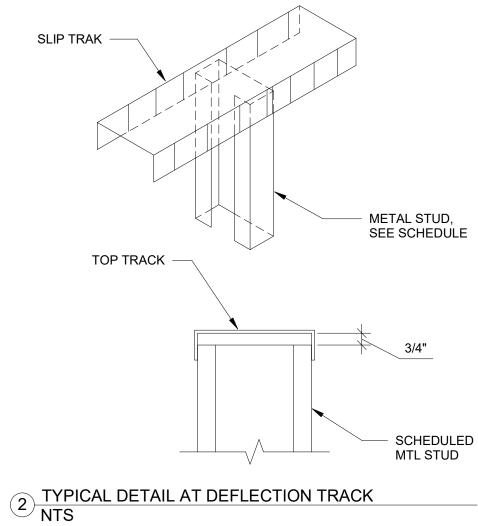
Suite 1250

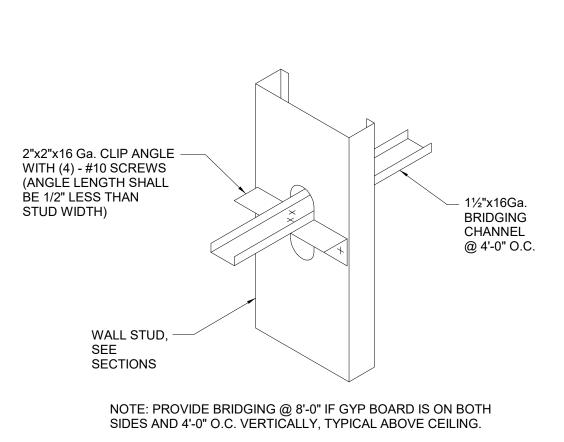
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Corpus Christi, TX

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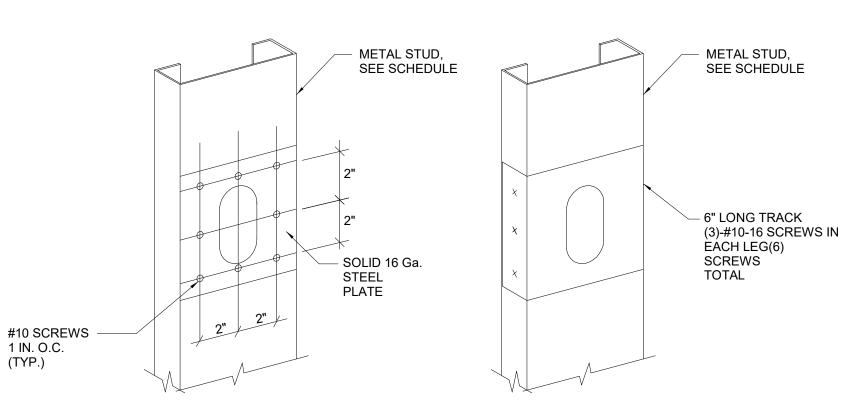




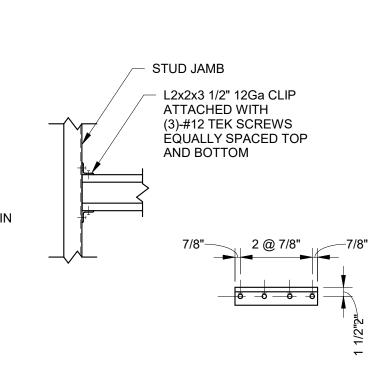


3 TYPICAL U-CHANNEL BRIDGING DETAIL
3/4" = 1'-0"

3/4" = 1'-0"



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



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

SPLICE USING SHORT SECTION OF STUD (SAME AS VERTICAL) RUNNER TRACK

TYPICAL DETAIL RUNNER TRACK

ATTACHMENT TO RUNNER TRACK

1 CONCRETE FOUNDATION NTS

LOCATION	STUDS (TYPICAL)	SPACING
<u>></u> 18'-0"	362S162@33	12"O.C.

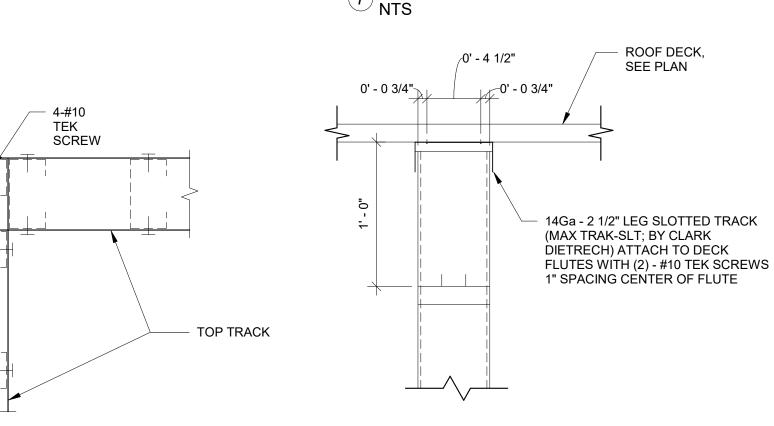
SCHEDULE NOTES:

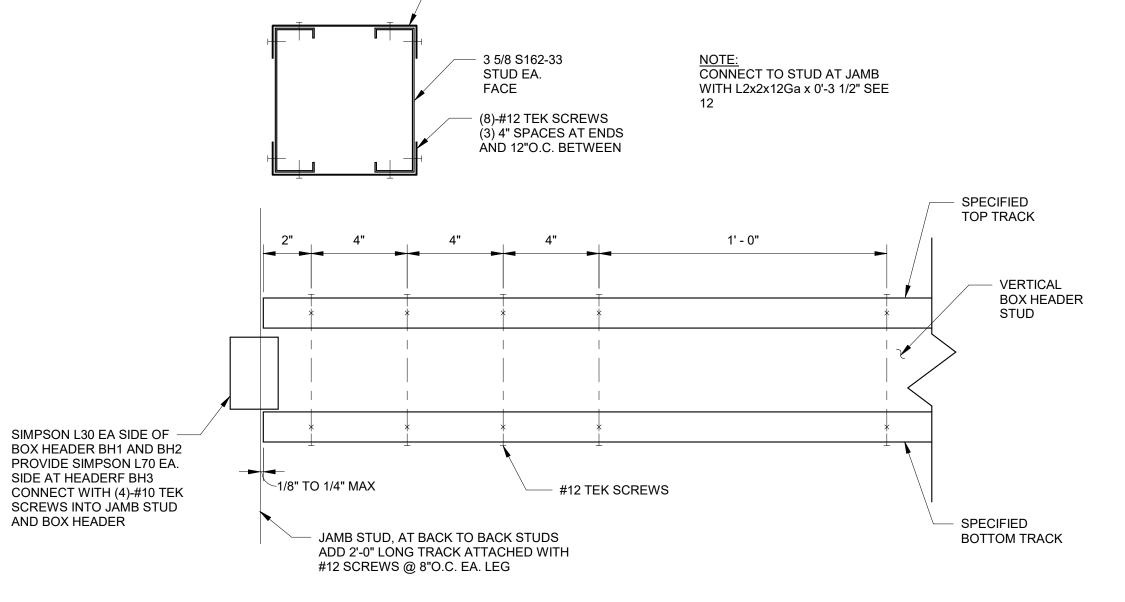
1. WALL HEIGHT IS THE DISTANCE BETWEEN SUPPORTS. 2. REFER TO STRUCTURAL GENERAL NOTES FOR

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.

EXTERIOR NON-LOAD BEARING METAL 7 STUD SCHEDULE NTS





362T125-33 TOP

& BOTTOM

BOX HEADER H1 ELEVATION	

TYPICAL SLOTTED TRACK 8 TYPICAL TO TRACK DETAIL AT CORNER NTS 9 ATTACHMENT TO METAL DECK 1 1/2" = 1'-0"

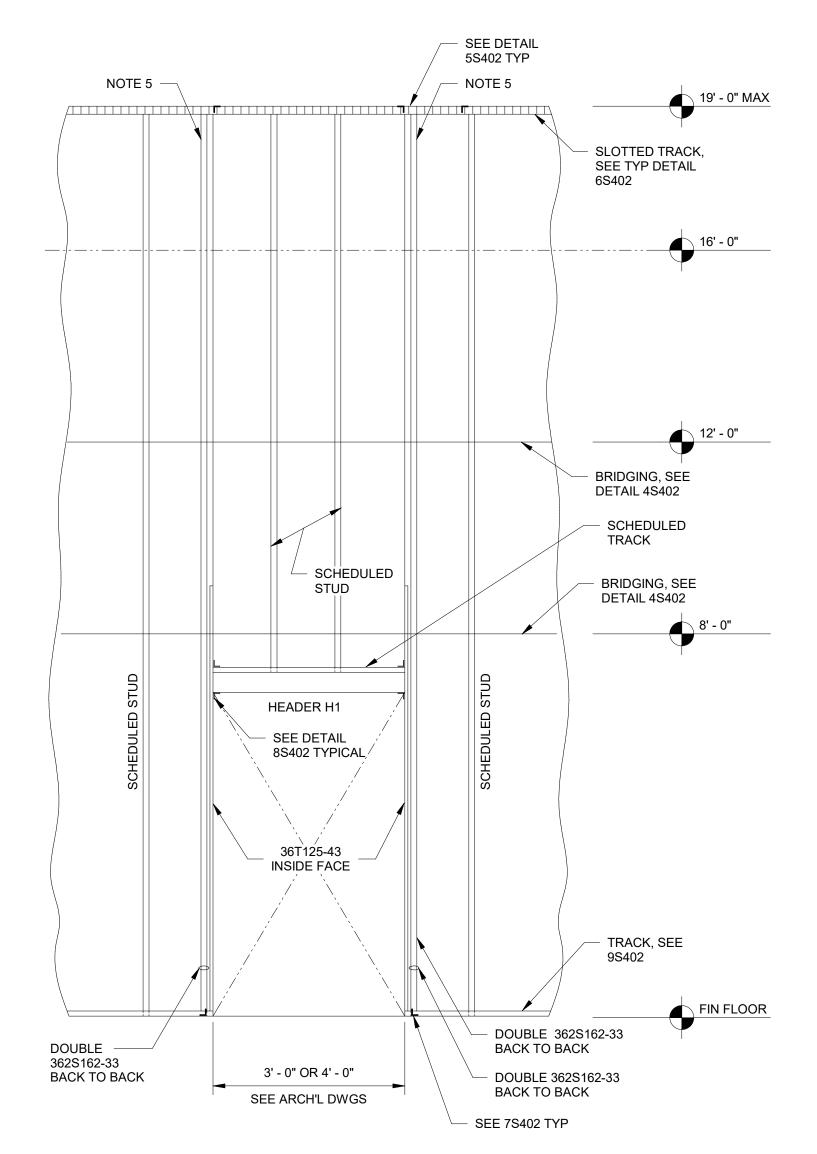
PROVIDE TYPE AND

NUMBER OF

SCREWS AS

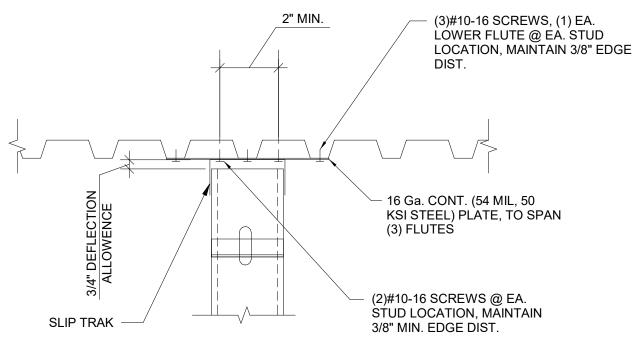
REQUIRED

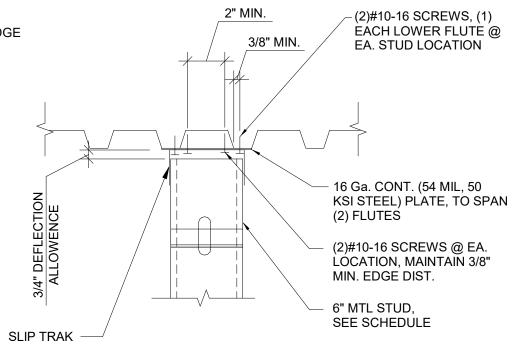
11 S415-11 3" = 1'-0"

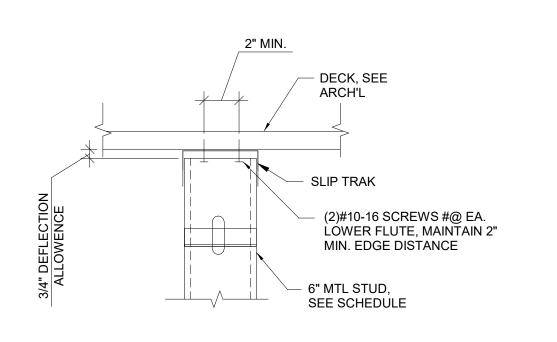


<u>DETAIL NOTES:</u>
1. REFER TO ARCH'L DWGS FOR EXACT DOOR LOCATION.
ATTACH DOOR TO JAMBS AS REQ'D PER SPECIFICATIONS.
3. SEE DETAIL 11S415 FOR HEADER.
TYPICAL LEAD LINED DOOR OPENING
DETAIL DETAIL
1/2" = 1'-0"









TYPICAL TRACK CONNECTION @ METAL

10 ROOF DECK DETAIL

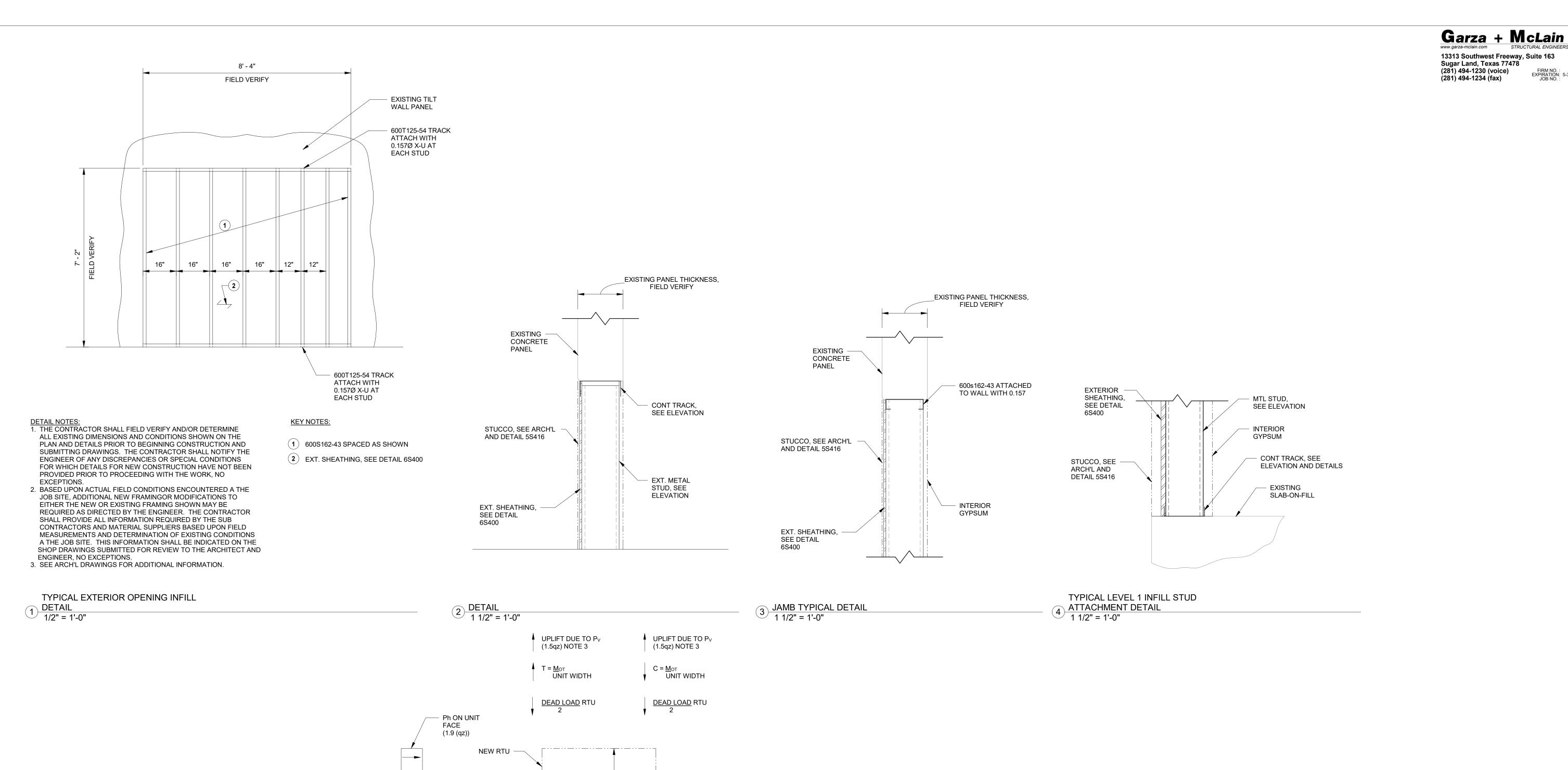
1 1/2" = 1'-0"

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12Ga BRACKETS

PROVIDE SPACING TO MEET TDI

CURB ADAPTOR TO

BE DESIGNED TO

MEET FORCES SPECIFIED

CURB APAPTOR

CONNECTION TO

MEET TDI

COORDINATE EXACT DIMENSION WITH EXISTING CURB

EXISTING CURB

12Ga BRACKETS -PROVIDE SPACING

CURB ADAPTOR TO BE DESIGNED TO

TO MEET TDI

MEET FORCES

SPECIFIED

CURB APAPTOR

MEET TDI

PLYWOOD SHEATHING

STUCCO,

SEE ARCH'L

CONNECTION TO

EXISTING CURB -

1. DESIGN WIND SPEED V = 143 MPH

SCHEMATIC LOADING DIAGRAM ON

2. OVERTURNING MOMENT = M_{OT} = H UNIT x P_h x H UNIT/2

UPLIFT TOP OF ROOF TOP UNIT. (0.9D + W)

3. OMIT UPLIFT WHEN DESIGNING COMPRESSION LOAD ON CURB ADAPTOR

4. DESIGN BRACKET FOR MAX UPLIFT DUE TO OVERTURNING MOMENT PLUS

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.

4981 AYERS STREET CORPUS CHRISTI, TX 78415

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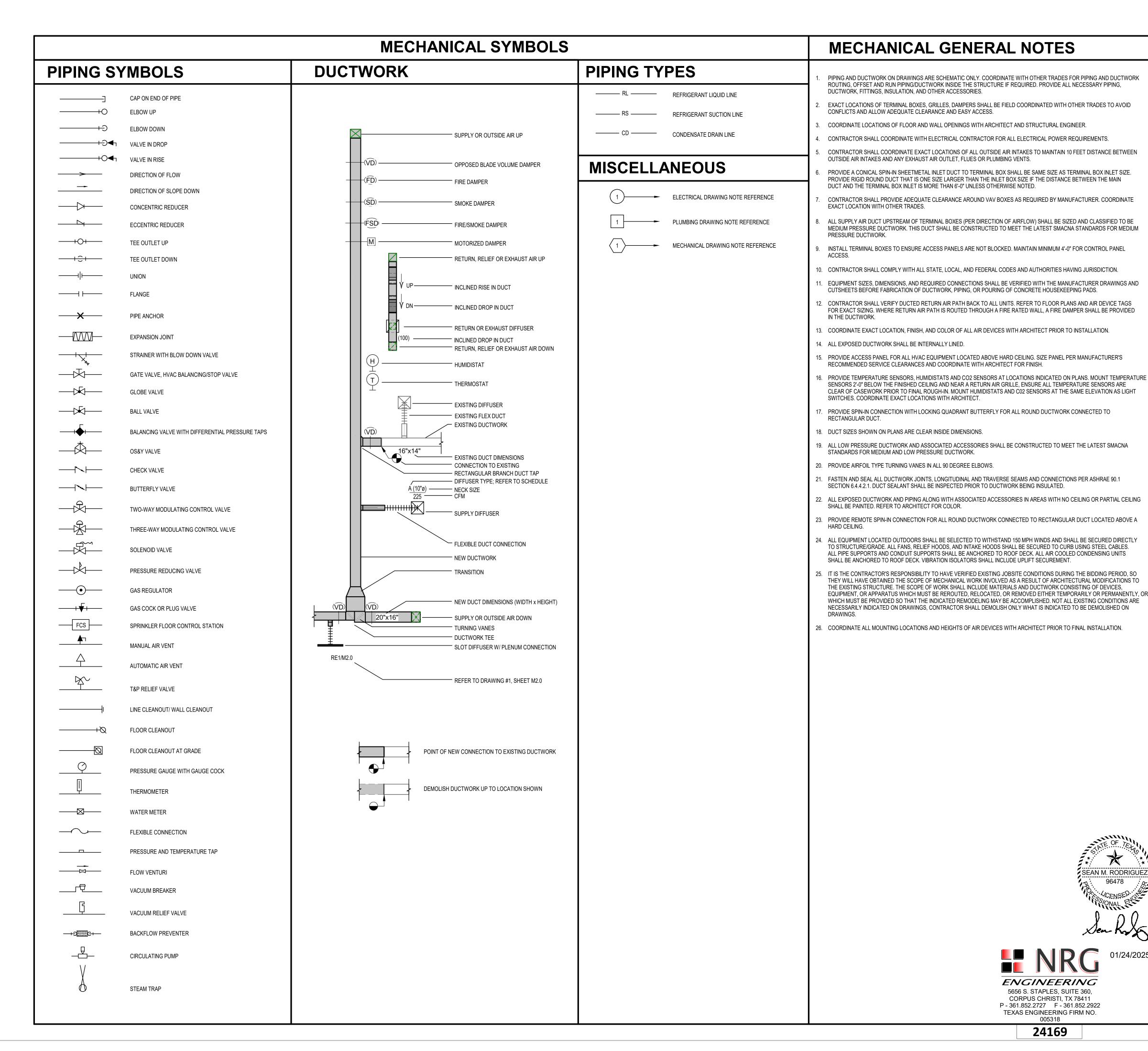
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METAL LATHE ATTACH #8-18x1

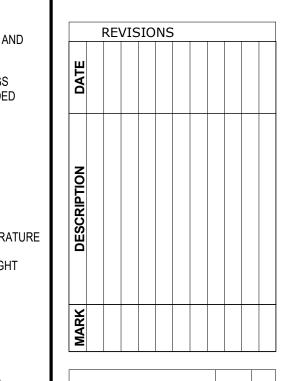
SCREW ON A 12"x12" PATTERN

1/4" LONG WAFER HEAD



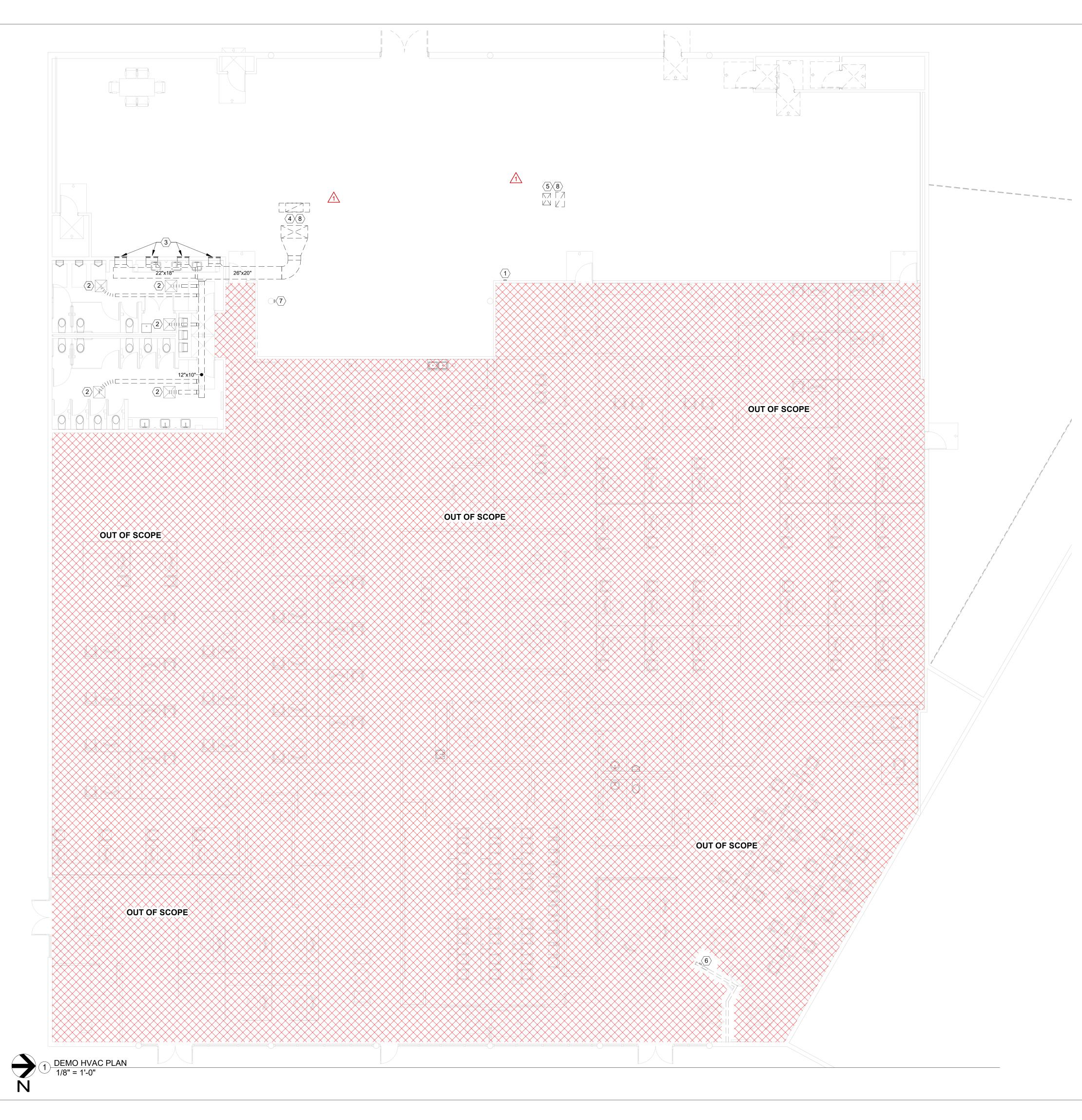
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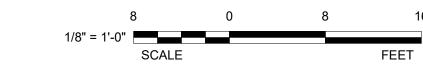




4981 AYERS STREET CORPUS CHRISIT, TX 78415

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





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.
- . 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.
- DEMOLISH EXISTING SIDEWALL GRILLE. PATCH WALL PER ARCHITECTURAL PLANS.
- DEMOLISH EXISTING DUCTS AND DIFFUSERS UP TO (E)RTU-1. PREPARE (E)RTU-1 FOR REUSE.
- 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.

 DEMOLISH EXISTING THERMOSTAT SERVING (E)RTU-1.
- 8 INCLUDE DEMOLISION OF EXISTING RTU AS SEPARATE LINE ITEM

02/04/2025



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

MARK DESCRIPTION DATE

1 PREBID ADDENDUM 01 02/11/25
2 PREBID ADDENDUM 02 02/14/26 ADDENDUM 02 02/14/26 ADDENDUM 02 00/14/26 ADDENDUM 0

STAYERS STREET
SCHRISIT, TX 78415
O HVAC PLAN

EAN M. RODRIGUEZ
96478
VCENSER

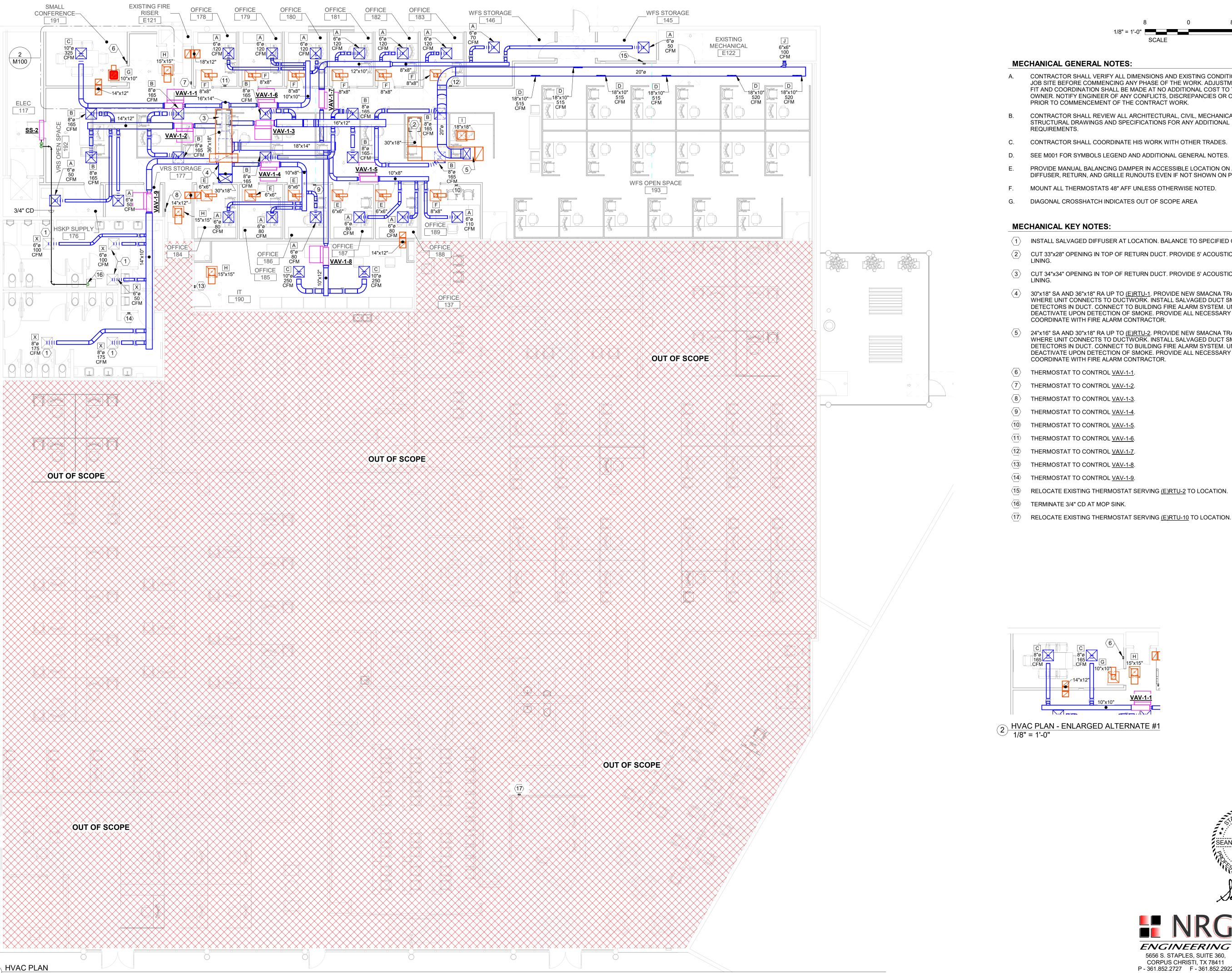
| JOB NO. | 202217 |
| PHASE: | CONSTRUCTION |
| DOCUMENTS |
| ISSUE DATE: | 02/04/2025 |
| DRN. BY: | JS |
| CKD. BY: | SR

SHEET NUMBER

ENGINEERING

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

24169





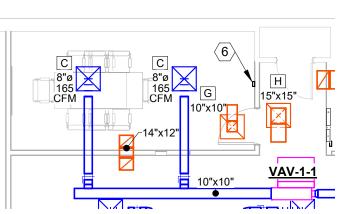
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SCALE

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- 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
- CUT 34"x34" OPENING IN TOP OF RETURN DUCT. PROVIDE 5' ACOUSTICAL DUCT
- 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.
- 24"x16" SA AND 30"x18" RA UP TO <u>(E)RTU-2</u>. 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.
- THERMOSTAT TO CONTROL VAV-1-1.
- THERMOSTAT TO CONTROL <u>VAV-1-2</u>.
- $\langle 8 \rangle$ THERMOSTAT TO CONTROL <u>VAV-1-3</u>.
- $\langle 9 \rangle$ THERMOSTAT TO CONTROL <u>VAV-1-4</u>.
- (10) THERMOSTAT TO CONTROL <u>VAV-1-5</u>.
- (11) THERMOSTAT TO CONTROL <u>VAV-1-6</u>.
- (12) THERMOSTAT TO CONTROL <u>VAV-1-7</u>.
- (13) THERMOSTAT TO CONTROL <u>VAV-1-8</u>.
- (14) THERMOSTAT TO CONTROL <u>VAV-1-9</u>.
- TERMINATE 3/4" CD AT MOP SINK.



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

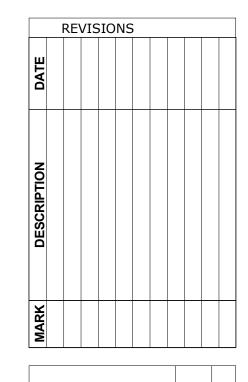
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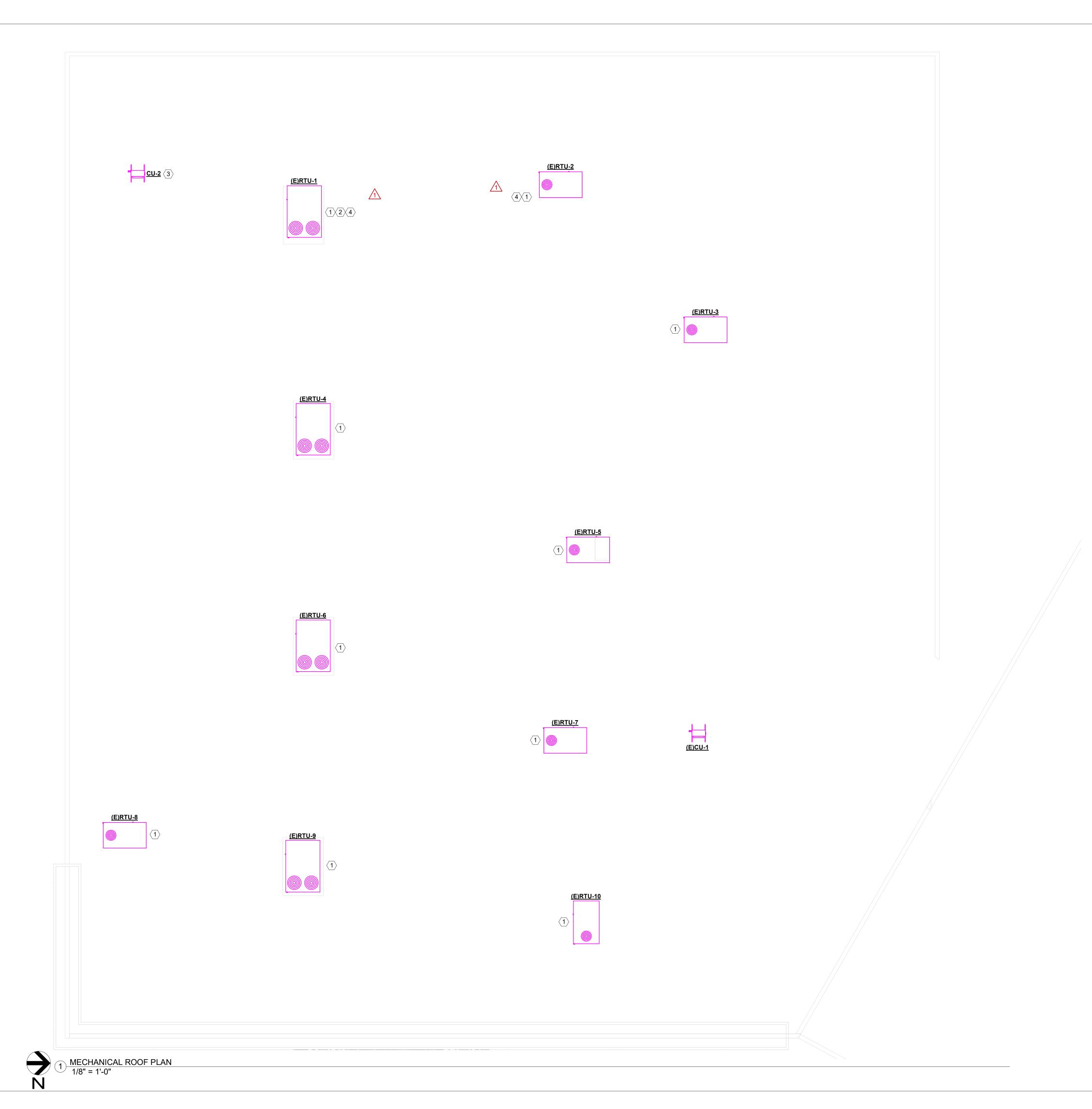
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01/24/2025

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



CONSTRUCTION DOCUMENTS 01/24/2025 DRN. BY: CKD. BY:





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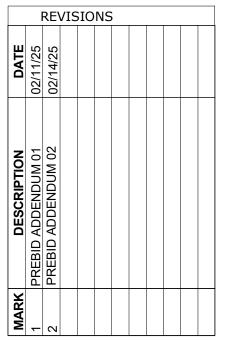
MECHANICAL KEY NOTES:

- (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.



02/04/2025







202217 CONSTRUCTION DOCUMENTS 02/04/2025 ISSUE DATE: DRN. BY:

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005318 SHEET NUMBER

24169

MARK	SS-2	
SERVES	ELECTRICAL 117	
YPE	WALL MOUNT	
/IN-MAX SUPPLY (CFM)	361 - 701	
AN MOTOR TYPE	DC MOTOR	
COOLING COIL @ DESIGN CONDITIONS		
COOLING COIL (MBTUH) MAX/MIN	24.0/8.2	
IOMINAL TONNAGE	2.0	
LECTRICAL DATA		
OLTS/PH/HZ	208/1/60	
MCA	1.0	
MANUFACTURER	MITSUBISHI	
MODEL NO.	MSY-GS24NA	
IOTES	1,3,4,5,6,7	
CONDENSING UNIT SCHEDULE		
MARK	CU-2	
SERVES	SS-2	
IOMINAL COOLING MBTUH	24.0	
MBIENT TEMP. COOLING	95	
SEER2 (EER2)	21.5 (12.6)	
COP(47/17)	-	
ISPF	-	
ICA	18.0	
MOCP .	20	
OLTS/PH.HZ	208/1/60	
VEIGHT (lb)	118	
MANUFACTURER	MITSUBISHI	
MODEL NO.	MUY-GS24NA	
IOTES	2,3,6	

	_,-,-,-	
1. PROVIDE UNIT WITH MICROBLUE OR MEGABLUE CONDI	ENSATE PUMP AND RESERVOIR WITH C	VERFLOW 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.
- PROVIDE PRESSURE TAPS ON INLET AND OUTLET OF INDOOR COILS. PROVIDE SUCTION ACCUMULATORS ON ALL UNITS.
- 3. DO NOT EXCEED MANUFACTURES RECOMMENDED REFRIGERENT LINE LENGTHS.
- 4. PROVIDE WIRED THERMOSTAT WITH WIFI CAPABILITIES.
- 5. UNITS SHALL BE CEILING MOUNTED COOLING AND HEATING.
- 6. ACCEPTABLE MANUFACTURES ARE MITSUBISHI OR DAIKIN.

DUCT CONSTR	UCTION AND SEALIN	G		
	S.M.A.C.N.A CLASS			
DUCT SYSTEM	S.P. CONSTRUCTION	SEAL CLASS	REMARKS	7
SUPPLY AIR DUCT	2"	В		

RETURN AIR DUCT	2"	В
EXHAUST AIR DUCT	2"	В

APPLICABLE LEAKAGE CLASSES

ROUND METAL

,,	J_ J (J J)		
DUCT CLASS	1/2, 1, OR 2 INCH WG	3 INCH WG	4, 6, 10 INCH WG
SEAL CLASS	В	В	А
SEALING APPLICABLE	Transverse Joints	Transverse Joints	Joints, Seams and
	and Seams	and Seams	Wall Penetrations
LEAKAGE CLASS			
RECTANGULAR METAL	12	12	6

	ALANCE SCHEDULE				BASED ON ASHRAE	62.1-2010	
MARK	SERVES	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	RESULTING	PERCENT
		CFM	CFM	CFM	CFM	BALANCE	OUTSIDE AIR
(E)RTU-1	VRS OFFICE	4535	3835	700		700	15.4
(E)RTU-2	WFS OPEN OFFICE	3200	2940	260		260	8.
(E)RTU-3	EXISTING	3200	2820	380		380	11.9
(E)RTU-4	EXISTING	2635	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	RETROOMS				800	-800	
(E)EF-2	MEN 126				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 (SQUARE FEET)				24575		
A	DESIRED CFM FOR PRESSURIZATION (CFM/	(SF)			0.066	1621.95	CFM
В	BUILDING LEAKAGE BASED ON EXISTING BL	LDG AT 0.1 CFM/SF X TOTAL SUF	RFACE AREA			1340.1	CFM
С	BUILDING EXHAUST				_	1000	CFM
	MINIMUM REQUIRED FOR PRESSURIZATION	I (A+B+C)			=	3962	CEM

0.05 in. W.G.

1. EXISTING RTUs LISTED FOR REFERENCE ONLY. EXISTING RTUS ARE OUTSIDE OF SCOPE OF WORK.

AMOUNT OF FRESH AIR PROVIDED (DELIVERED) AMOUNT TO BE RELIEVED (DELIVERED - MINIMUM)

BUILDING PRESSURIZED AT:

				A	IR DI	EVICE	SCHE	DULE				
	PLAN MARK	MANUF. & MODEL NUMBER	SERVICE	MODULE SIZE	NECK SIZE	FACE SIZE	BORDER TYPE	FINISH	BLOW PATTERN	MAT'L.	OPTIONS/NOTES	
)	А	TITUS OMNI-AA	SUPPLY	24 X 24	6"□	24 X 24	3	26	4	ALU		
	В	TITUS OMNI-AA	SUPPLY	24 X 24	8"□	24 X 24	3	26	4	ALU		
	С	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		
ĺ	Е	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	
	Н	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		
	1. SU 2. SN 3. LA 4. SP 5. DF	DER TYPE JRFACE MOUNT JAP-IN Y-IN PLINE ROPPED EVELED	1. 1-WAY 2. 2-WAY 2C. 2-WAY, OPPOSI 3. 3-WAY 4. 4-WAY+	TE		FINISH 01 ALUMINUM 04 MILL (STD) 26 WHITE		TF PF PF AC	OPTIONS/NOTES 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			
						MATERIAL STIL 22 GALIGE S	TEEI	L S	L FRONT BLADE LONG ORIENTATION			

ST'L 22 GAUGE STEEL ALU ALUMINUM

AT 3963 CFM

TAG	MANUFACTURER	MODEL	RTU	ROOMS SERVED	SIZE		CFM		STA	TIC PRESS	URE	1	IC LEVELS	S ELECTR	IC HEATII	NG COIL				Ė	LECTRICA	L	NOTES
			TAG		UNIT	DUCT RUNOUT	MAX	MIN	% TURNDOWN	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

- 1. ALL PERFORMANCE BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ASHRAE 130-2016 AND AHRI 880-2017.
- 2. ALL NC LEVELS DETERMINED USING AHRI 885-2008 APPENDIX E.
- 3. ALL AIRFLOW, PRESSURE LOSSES AND HEATING PERFORMANCE VALUES HAVE BEEN CORRECTED FOR ALTITUDE.
- 4. UNITS OF MEASURE: DIMENSIONS (IN), AIRFLOW (CFM), WATER FLOW (GPM), AIR PRESSURE (IN WG), WATER HEAD LOSSES (FT) AND TEMPERATURES (DEGF). 5. IN THE "STEPS" COLUMN, CODE "S" DENOTES A MODULATING SCR HEATER.
- 6. 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
- 7. PROVIDE DOOR INTERLOCK DISCONNECT FOR EACH UNIT. 8. CONSTANT VOLUME BOX. DAMPER SHALL MODULATE TO MAINTAIN AIRFLOW. HEATER SHALL MODULATE TO MAINTAIN ROOM SETPOINT.





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AG-85 BUTTERFLY DAMPER

EQUALIZING GRID THROW REDUCING VANES

SHEET NUMBER

ISSUE DATE:

CKD. BY:

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02/04/2025

4981 AYERS STREET CORPUS CHRISIT, TX 78415

02/04/2025

architects & associates

615 N. Upper Broadway

Corpus Christi, TX

REVISIONS

Suite 1250

78401-0750

828 CFM

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 DB/WB	76.9/64.9	76.9/64.9			
LAT DB/WB	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			
VOLTS/PH MCA MOCP MFG MODEL No. WEIGHT	26 30 CARRIER 50LCEB12H2Q6 1811	56 60 CARRIER 50LCEA12H2Q6 1896			_ _ _ _

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 PROGRAMMABEL HUMAN INTERFACE CONTROL BOARD.
- CONTROLLER SHALL HAVE A 1 YR WARRANTY.
- 8. AUTOMATIC TEMPERATURE CONTROL: LOW VOLTAGE SEVEN DAY PROGRAMABLE 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



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DATE	02/04/25	02/14/25							
DESCRIPTION	PREBID ADDENDUM 01	PREBID ADDENDUM 02							
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4981 AYERS STREET CORPUS CHRISIT, TX 78415



DRN. BY: CKD. BY:

SHEET NUMBER

CONSTRUCTION DOCUMENTS

02/04/2025

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005318

24169

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. 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.). $\frac{\text{SUPPLY AIR DUCT STATIC PRESSURE CONTROL:}}{\text{THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE}}$ 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 VARIABLE AIR VOLUME - TERMINAL UNIT (TYPICAL) DAMPERS, WITH A GOAL OF REDUCING THE STATIC PRESSURE UNTIL AT LEAST ONE ZONE DAMPER IS NEARLY **RUN CONDITIONS - SCHEDULED:** WIDE OPEN. THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES: • THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.5IN H2O (ADJ.). OCCUPIED MODE: THE UNIT SHALL MAINTAIN • IF NO ZONE DAMPER IS NEARLY WIDE OPEN, THE SETPOINT SHALL A 75°F (ADJ.) COOLING SETPOINT INCREMENTALLY RESET DOWN TO A MINIMUM OF 1.15IN H2O (ADJ.) A 70°F (ADJ.) HEATING SETPOINT AS ONE OR MORE DAMPERS NEARS THE WIDE OPEN POSITION, THE • UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 1.8IN H2O A 85°F (ADJ.) COOLING SETPOINT. A 55°F (ADJ.) HEATING SETPOINT. ALARMS SHALL BE PROVIDED AS FOLLOWS: ALARMS SHALL BE PROVIDED AS FOLLOWS: • HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC • HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT. COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.). • LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE • LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING IS 25% (ADJ.) LESS THAN SETPOINT. SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.). SUPPLY FAN VFD FAULT. <u>SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:</u> THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR. MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING ZONE OPTIMAL START: THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. AND HEATING REQUIREMENTS THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN ON ZONE COOLING PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF **REQUIREMENTS AS FOLLOWS:** SCHEDULED OCCUPIED PERIOD. • THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 52°F (ADJ.). • AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY **ZONE UNOCCUPIED OVERRIDE** RESET DOWN TO A MINIMUM OF 48°F (ADJ.). A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN RESET UP TO A MAXIMUM OF 55°F (ADJ.). ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE. IF MORE ZONES NEED HEATING THAN COOLING, THEN THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL: THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW RESET FOR HEATING AS FOLLOWS: • THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 65°F (ADJ.). THROUGH ONE OF THE FOLLOWING: • 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 • WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT RESET DOWN TO A MINIMUM OF 60°F (ADJ.). THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE • 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

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

THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND

MODULATE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. THE HEATING SHALL BE ENABLED WHENEVER:

ELECTRIC HEATING WITH SCR:

• 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.

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 • LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F

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

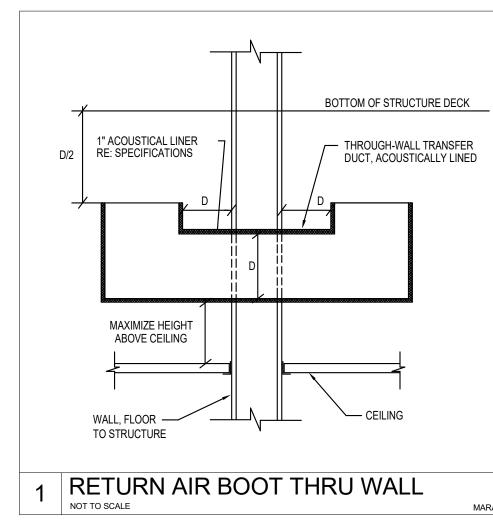
ALARMS SHALL BE PROVIDED AS FOLLOWS: • HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER • LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

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.).



-GALVANIZED ALL THREAD RODS. ELECTRICAL CONDUIT (TYPICAL) - DUCT TIGHT TO STRUCTURE EXCEPT ALLOW MIN. 2" FOR EXTERNAL INSULATION - CEILING - LIGHT FIXTURE NOTES: 1. PIPES AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. 2- DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE. 2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED. 3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE

CONTRACTOR.

SECURE ALL THREAD 3/8" STEEL **RODS TO STRUCTURE** THREADED ROD 3/8" BOLT, NUT & WASHERS 3/8" HANGER ADJUSTER. B-LINE FIGURE B3224 (2) SUPPORT PER FLANGE DUCT FLANGE ← PAINT EXPOSED DUCTWORK, REFER TO AS PER MANUFACTURERS ARCHITECT FOR RECOMMENDATION FINISH

BRANCH DUCT -ALL BRANCH CONNECTIONS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPER 1/4 W (4" MIN.) AND LOCKING QUADRANT, USE YOUNG'S REGULATOR IN CEILING IF DAMPER IS NOT ACCESSIBLE. PARALLEL \ 45° BLADE DAMPER SHALL BE USED IF BRANCH DUCT AIR FLOW FA HEIGHT IS 9" OR LESS INSIDE. AIR FLOW SA - TRUNK DUCT

> NOTE: THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

RECTANGULAR BRANCH DUCT TAP MAGD300.DWG

REMOVABLE GALVANIZED SHEET METAL HOOD WITH STAINLESS STEEL SCREWS ON 6" CENTERS - 20 GAUGE GALV. SHEET (MINIMUM 2 PER SIDE) METAL ENCLOSURE W/ ALL JOINTS SOLDERED (INCLUDING FLASHING) SHEET METAL STOP SHEET METAL SCREWS PRE-FAB ROOF CURB ROOF DECK FLASHING AND COUNTER FLASHING TO BE HOT MOPPED - INSULATE ROOF INTO PLACE ----PENETRATION TREATED WOOD NAILER SCHEDULE 40 STEEL SLEEVE. SEAL WITH TYPICAL PIPE 20 YEAR CAULK -NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.

PIPING ROOF PENETRATION

- SHEETMETAL 1" ACOUSTICAL LINER —— RETURN AIR BOOT RE: SPECIFICATIONS **→** - EXTEND THRU CORRIDOR WALL CEILING — WHERE SHOWN ON FLOOR PLANS. RETURN AIR GRILLE

10 RETURN AIR BOOT AT GRILLE

MPRE100.DWG SUPPLY SUPPLY AIR FLOW 45°-\\/ SEAL ALL JOINTS - 1/4 OF DIAMETER OF ROUND DUCT (4" MIN.) TRANSITION FROM RECTANGULAR DUCT TAP TO ROUND DUCT LOCKING QUADRANT DAMPER ON INSULATION STAND-OFF (MIN. 1-1/4")

MAGD302.DWG

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CONSTRUCTION DOCUMENTS **ISSUE DATE** 01/24/2025 CKD. BY:

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_ ASSEMBLIES REQ'D. OVAL OR ROUND DUCT HANGER MAGD103.DW - LOOP TO PREVENT LIQUID FROM DRAINING

INTO COMPRESSOR

WHEN COMPRESSOR

IS LOCATED BELOW

DX COIL AT FAN COIL

EVAPORATOR.

— THERMOSTATIC

EXPANSION VALVE

SIGHTGLASS MOISTURI

W/ ADJUSTABLE

SUPER HEAT

& EQUALIZER

INDICATOR

UNIT.

GALVANIZED SUPPORT ROD SIZED PER MANUFACTURER RECOMMENDATIONS.— SUPPORT FROM STRUCTURE **REFRIGERANT** LIQUID LINE GALVANIZED PROVIDE 4" PIPE CLAMP SECTION OF INSULATION AT INSULATED SUPPORT FOR REFRIGERANT REFRIGERANT SUCTION PIPE DIELECTRIC GALVANIZED ISOLATION -PIPE SADDLE **GALVANIZED** ANGLE IRON NOTE: PROVIDE THIS SUPPORT AT 3'-0" O.C. MAX. & AT EACH CHANGE OF PIPING DIRECTION.

TYP. MEP INSTALLATION DETAIL

REFRIGERANT PIPE HANGER

TO ZONE 1" ACOUSTICAL DUCT, LINED AS REQUIRED TO REDUCE NOISE TO SPECIFIED VALUE HEATER

THERMOSTAT[®] CONTROL BOX-

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.

• 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.

NOTE: 1. TYPICAL FOR EACH SEPARATE REFRIGERANT CIRCUIT. 2. PROVIDE FILTER DRYER ON ALL SYSTEMS. 3. USE "ACR" HARD DRAWN COPPER REFRIGERANT PIPE.

FILTER DRIER —

SLOPE SUCTION

COMPRESSOR-

AIR COOLED

CONDENSING/

TO DRAIN, OIL TO

COMPRESSOR —

SHUT-OFF

VALVE ——

MAGD101.DWG

REFRIGERANT PIPING SCHEMATIC MPRE201.DWG

-RECTANGULAR COLLAR —VAV BOX REDUCER WHERE REQUIRED -ROUND RIGID SHEET METAL DUCT MIN. 2 FT. 18" MAXIMUM LENGTH IFLEXIBLE DUCT.

SHEET METAL MAIN DUCT CONICAL FITTING — FOR BRANCH DUCT SIZE, SEE FLOOR PLANS.

RECTANGULAR DUCT TAP ----ROUND DUCT ROUND FLEXIBLE SEE FLOOR PLAN

8 INTERIOR VAV UNIT DETAIL MEVT102.DWG

AIR DUCT **DUCT CONNECTION -**

FOR SIZES RECTANGLUAR TAP TO ROUND 9 TRANSITION

CORPUS CHRISTI, TX 78411

TEXAS ENGINEERING FIRM NO. 24169

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 SYSTEM'S 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 DIMMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR UNLINED SHEET METAL

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 LATERST 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 90A 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 CAMPLING 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

CEILING DIFFUSERS/RETURNS: INSTALL SUPPLY & RETURN DIFFUSERS/REGISTERS WITH DAMPER I 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

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 RETAINTION, 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 DETERCTOR 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.

- 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 CLEANRACE 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.
- 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 RQUAL 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
- 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

COORDINATED WITH THE MECHANICAL OR PLUMBING CONTRACTOR PRIOR TO

GENERAL ENERGY NOTES

EQUIPMENT WITH THE LANDLORD.

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

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 CONTINOUS 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 INSU	JLATION (II	NCH)	MINIMUM DUCT INSULATION (R)
	NOMINAL	- PIPE DIA.	
FLUID	≤ 1.5"	> 1.5"	UNCONDITIONED SPACE ≥ 5 OUTSIDE BLDG. ENVELOPE ≥ 8
STEAM	1 - 1/2	3 - 1/2	EXCEPTIONS:
HOT WATER	1	1 - 1/2	WHEN LOCATED WITHIN EQUIPMENT. WHEN DESIGN TEMP.
CHILL WATER OR REFRIGERANT	1	1	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:

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

. UNIT INSTALLATION	N CHECK:
A.	RECORD RTU #, UNIT C/N, UNIT MODEL #, AND UNIT SERIAL
B.	CHECK CURB INSTALLATION INCLUDING VIBRATION ISOLATION AND WIND OR SEISMIC RESTRAINTS. VERIFY PEOWNER 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.
Н.	CHECK CLEANLINESS OF UNIT AND AREA AROUND IT. DISPOSE OF ANY DEBRIS FOUND.
ELECTRICAL SYST	TEM 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.
INTEGRATED MOD	DULAR CONTROLLER CHECK:
A.	VERIFY LED HEARTBEAT ON ALL THE ROOFTOP UINIT MANUFACTURER'S PROVIDED CONTROL BOARDS.
В.	RECORD HARDWARE AND SOFTWARE VERSIONS OF ALL PROVIDED CONTROL BOARDS.
C.	VERIFY DIP SWITCHES ON ALL CONTROL BOARDS ARE SEFOR OWNER SPECIFICATIONS PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
D.	VERIFY ALL THE ROOFTOP UNIT MANUFACTURER'S PROVIDED TEMPERATURE SENSORS READINGS ARE ACCURATE.
SUPPLY FAN SYS	TEM CHECK:
A.	CHECK BLOWER PULLEY SEY SCREWS FOR PROPER TORQUE. ADJUST AS NEEDED.
В.	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.
COOLING SYSTEM	1 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.

SIGNATURE: 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.

CORRECT CHARGE AS NEEDED.

RECORD TEMPERATURE DROP ACROSS THE EVAPORATOR

COIL IN FULL COOLING (ALL COMPRESSOR RUNNING).

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

GAS HEATING SYSTEM (WHEN SPECIFIED):

CHECK INSTALLATION OF INTAKE AND EXHAUST HOODS. VERIFY PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CHECK INSTALLATION OF GAS UNIONS.

RECORD FUEL TYPE.

CHECK AND RECORD INCOMING GAS PRESSURE TO UNIT.

CHECK MANIFOLD GAS PRESSURE FROM THE OUTLET OF THE BAS VALVE(S) PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS. ADJUST AS NECESSARY.

CHECK AND RECORD TEMPERATURE RISE ACROSS HEAT EXCHANGER IN FULL HEAT.

G. CHECK OPERATION OF TEMPERATURE LIMIT.

ELECTRICAL HEAT SYSTEM CHECK: (WHEN SPECIFIED):

CHECK AND RECORD AMP DRAW OF THE HEATING ELEMENTS. CHECK HEATING SECTION OPERATION. RECORD TEMPERATURE RISE THRU UNIT IN FULL HEATING OPERATION PER THE ROOFTOP UNIT MANUFACTURER'S SPECIFICATIONS.

VERIFY CO² SENSORS ARE OPERATIONAL

PERFORM COOLING SIMULATION TEST. VERIFY COOLING

CHECK OPERATION OF TEMPERATURE LIMIT.

STAGES PER OWNER'S SPECIFICATIONS. PERFORM HEATING SIMULATION TEST. VERIFY HEATING STAGES PER OWNER'S SPECIFICATIONS.

PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.

THERMOSTAT/ UNIT CONTROLS SYSTEM CHECK:

RECORD THERMOSTAT OR DDC SYSTEM MAKE, MODEL AND SERIAL NUMBER.

VERIFY CLASS 2 CONTROLS WIRING INSTALLATION TO TERMINAL BOARD OF UNIT. VERIFY THAT REMOTE SENSORS ARE OPERATIONAL.

VERIFY CO² SENSORS ARE OPERATIONAL

PERFORM COOLING SIMULATION TEST. VERIFY COOLING STAGES PER OWNER'S SPECIFICATIONS.

STAGES PER OWNER'S SPECIFICATIONS.

PERFORM HEATING SIMULATION TEST. VERIFY HEATING

PERFORM VENTILATION SIMULATION TEST. VERIFY VENTILATION OPERATION PER OWNER'S SPECIFICATIONS.

INDOOR AIR QUALITY SYSTEM CHECK:

CHECK AND RECORD CONDITION AND TYPE OF FILTERS.

OUTDOOR AIR ACCESSORY CHECK

CHECK OPERATION OF ECONOMIZER OR MOTORIZED OUTDOOR AIR DAMPER BY DRIVING IT FULL OPEN AND

> RECORD MINIMUM DAMPER POSITION AND ENTHALPY SETTING (IF PROVIDED).

CHECK ECONOMIZER CONTROL BOARD SETTINGS PER OWNER SPECIFICATIONS, RECORD SETTING.

CHECK OPERATION OF BAROMETRIC RELIEF DAMPER IF

CHECK OPERATION OF POWER EXHAUST IF INSTALLED. CHECK MOTOR AMP DRAW PER THE ROOFTOP UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CONTROL CHECK:

VERIFY COMPLETE INSTALLATION/OPERATION OF ALL THERMOSTATS AND TIME CLOCKS IF UTILIZED.

VERIFY COMPLETE INSTALLATION/OPERATION OF SMOKE DETECTOR/FIRE ALARM INTERFACE.

DUCT SYSTEMS AND AIR DISTRIBUTION:

VERIFY INSTALLATION CONFORMS TO DESIGN AND ALL PIECES OF AIR DISTRIBUTION, DUCTWORK, DIFFUSERS, AND GRILLES ARE COMPLETE AND PROPERLY INSTALLED.

VERIFY ALL MANUAL VOLUME DAMPERS ARE IN FULL OPEN OR NEUTRAL POSITION.

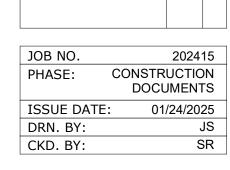
EXHAUST FAN(S):

VERIFY PROPER INSTALLATION/OPERATION AND FAN ROTATION.





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WORK! PHASE

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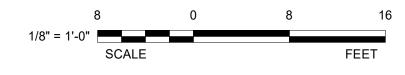
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ELECTRICAL DEMOLITION GENERAL NOTES:

- 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.
- 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.
- PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE, OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.
- VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. THE MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
- 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.
- $\langle 2 \rangle$ EXISTING EXIT/EMERGENCY FIXTURE TO REMAIN IN PLACE.
- REMOVE ANY EXISTING RECEPTACLES OR DATA ON WALL. REFER TO SHEET E200 FOR ADDITIONAL INFORMATION.
- $\overline{\langle 4 \rangle}$ EXISTING FIRE ALARM DEVICE TO BE REMOVED. REFER TO SHEET E300 FOR NEW
- (5) EXISTING FIRE ALARM DEVICE TO REMAIN.
- (6) EXISTING ELECTRICAL GEAR TO REMAIN.
- $\langle 7 \rangle$ EXISTING LIGHT FIXTURE TO REMAIN, REFER TO ELECTRICAL LIGHTING PLAN E100 FOR ADDITIONAL INFORMATION.
- $\langle 8
 angle$ EXISTING EXTERIOR LIGHTING FIXTURE TO BE REPLACED WITH NEW LED FIXTURE PER ALTERNATE #3. REFER TO LIGHTING PLAN, E100 AND LIGHTING SCHEDULE.
- $\langle 9 \rangle$ EXISTING JBOX FOR BUILDING SIGN TO REMAIN.

MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROLS.

JOHN A. RODRIGUEZ II

02/14/2025

- (10) EXISITNG 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 REQUIERMENTS.
- (13) REMOVE EXISITNG RECEPTACLE AND ANY OTHER DEVICES FROM DEMOED WALL. ROUTE
- CONDUCTORS TO NEAREST JBOX OR CLOSES DEVICE.
- EXISTING CAMERA TO BE RELOCATED PER ALTERNATE #2. REFER TO SPECIAL SYSTESM PLAN E300 FOR ADDITIONAL INFORMATION.
- EXISTING RTUS TO BE DEMOLISHED AND REPLACED PER BASE BID UNDER SEPERATE LINE ITEM . ALL EXISTING CABILING, CONDUIT AND DISCONNECT SWITCHS TO BE REUSED IF HAVING ACCEPTABLE RATINGS PER MANUFACTOR RECOMMINDATIONS. FIELD VERIFY ALL ASSOCIATED ELECTRICAL ITEAMS FOR EACH RTU.
- RTU-1 TO HAVE EXISTING 40A/3P BREAKER REPLACED BY A 30A/3P BREAKER ON PANEL 'MDP' PER MANUFACTORS RECOMMINDATIONS. FIELD VERIFY EXISTING CONDITIONS.

FOR REVIEW ONLY NOT INTENDED FOR CONSTRUCTION OR REGULATORY APPROVAL

02/14/2025



Suite 1250

Corpus Christi, TX

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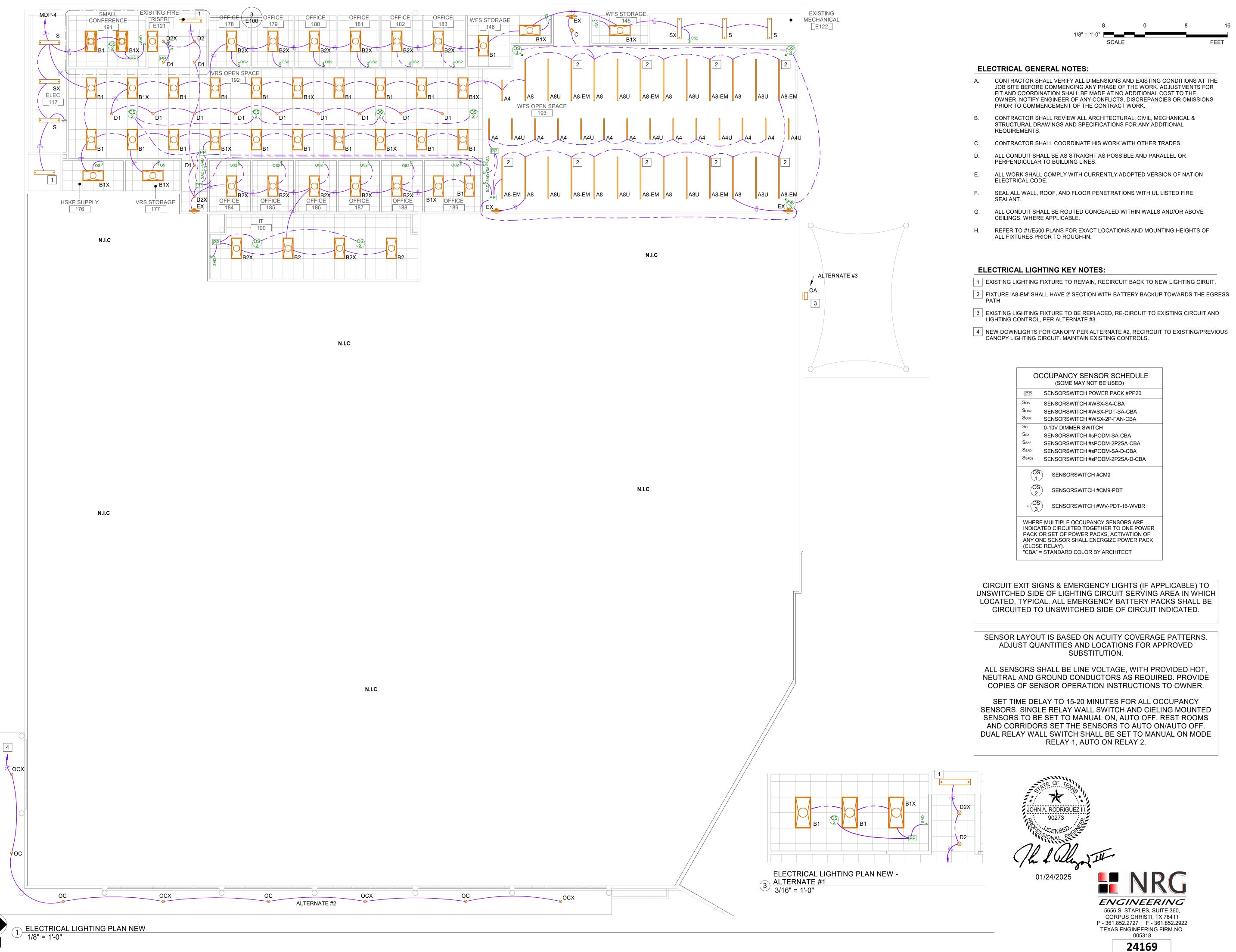
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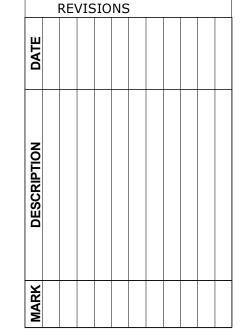
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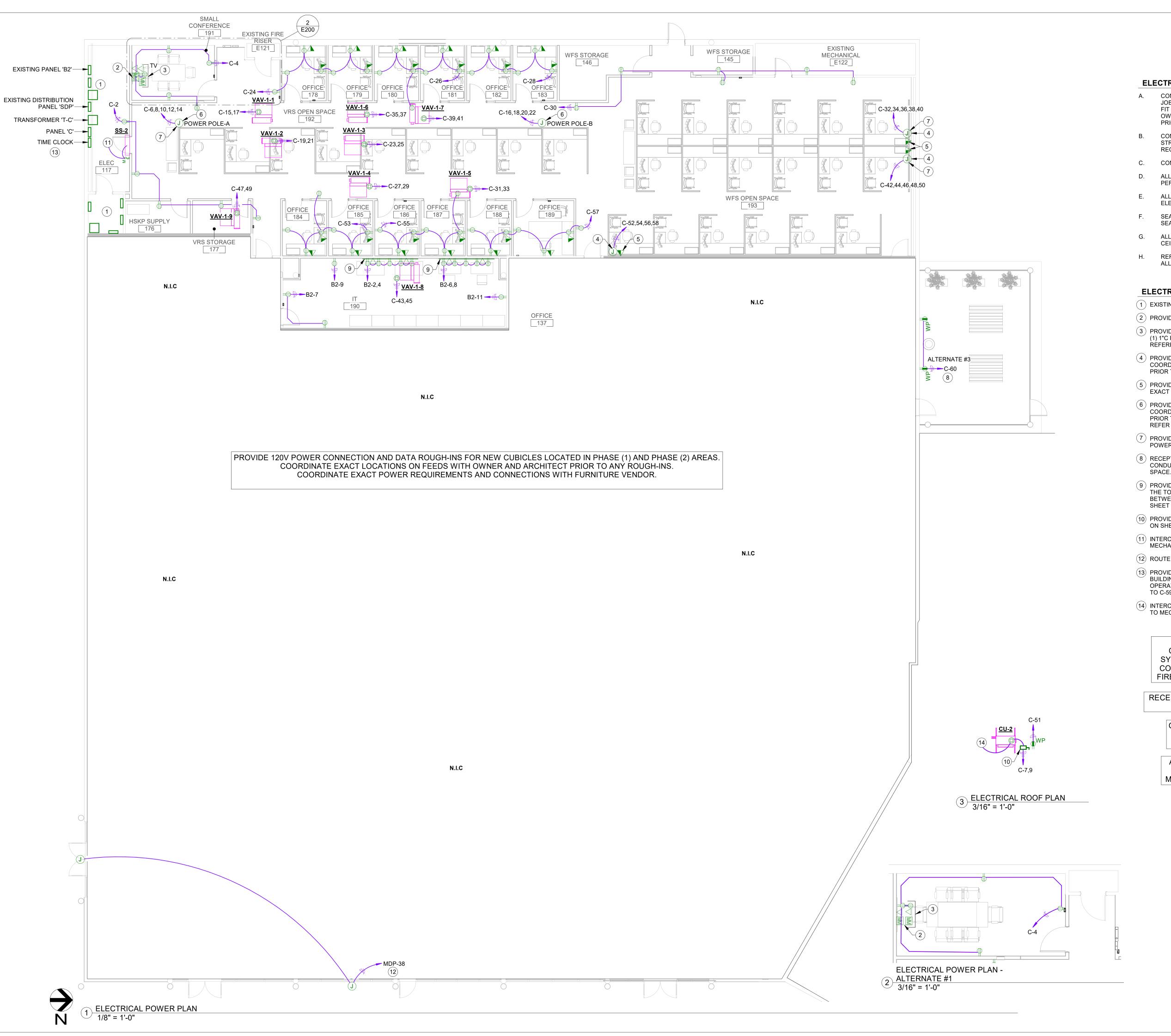
WORKFORCE SOLUTIONS PHASE III RENOVATION

4981 AYERS STREET CORPUS CHRISIT, TX 78415

202415 CONSTRUCTION PHASE: DOCUMENTS ISSUE DATE: 01/24/2025 DRN. BY: CEG

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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.

SCALE

- 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
- G. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS, WHERE APPLICABLE.
- I. 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.
- PROVIDE CHIEF DISPLAY BACK BOX #PAC525FW. BACK BOX SHALL HAVE (1) RECEPTACLE, (1) 1"C FOR DATA AND (1) 1"C FOR HDMI TOWARDS FLOOR BOX. MOUNT BACK BOX 72"AFF. REFERENCE ARCHITECTUAL DRAWINGS FOR TV MOUNTING HIGHT.
- 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.
- 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



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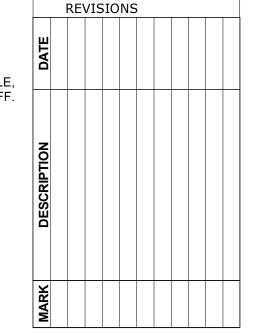
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005318

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4981 AYERS STREET
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CTRICAL POWER PLAN

CORPUS CHR

JOB NO. 202415

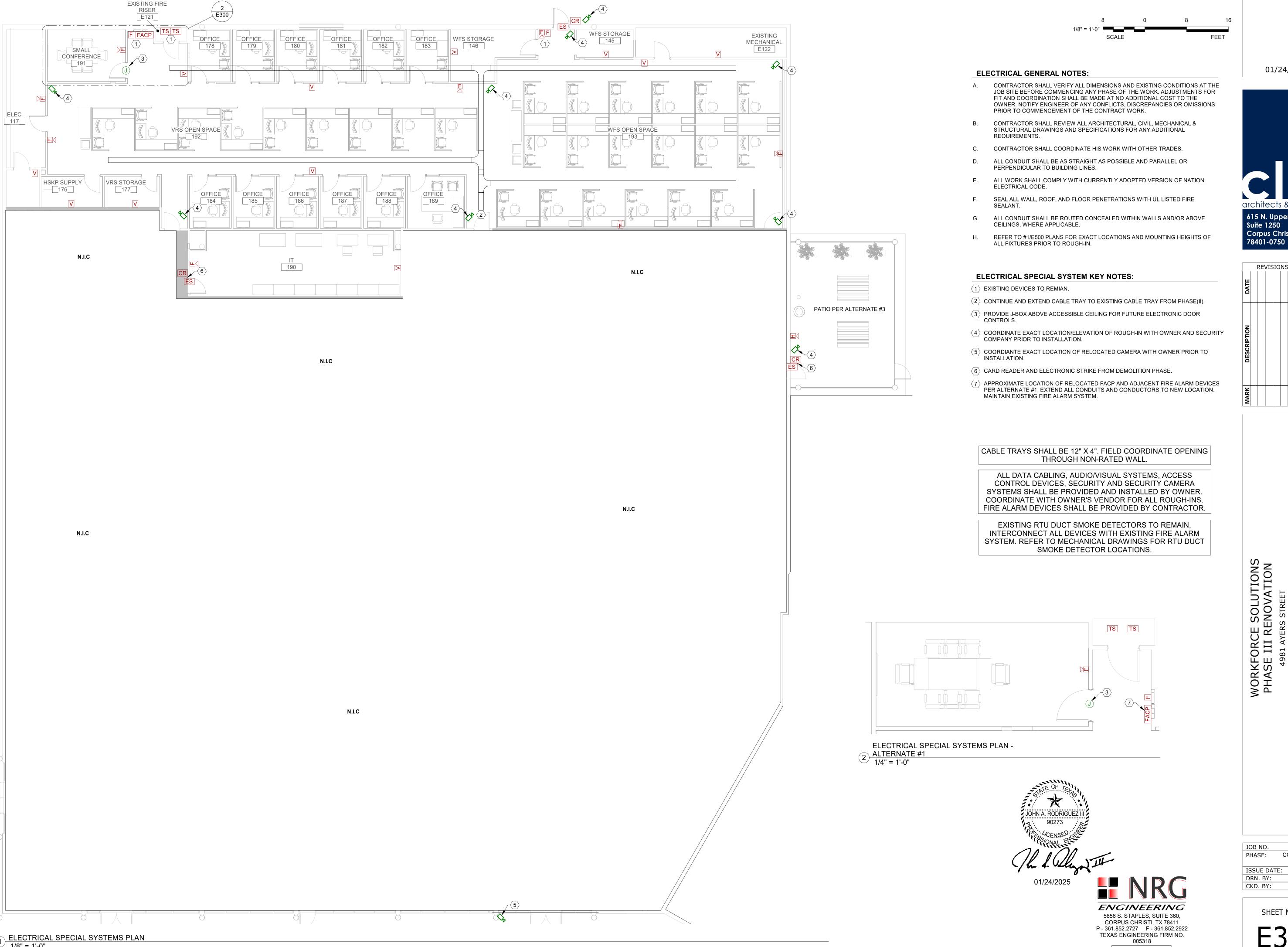
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1/8" = 1'-0"

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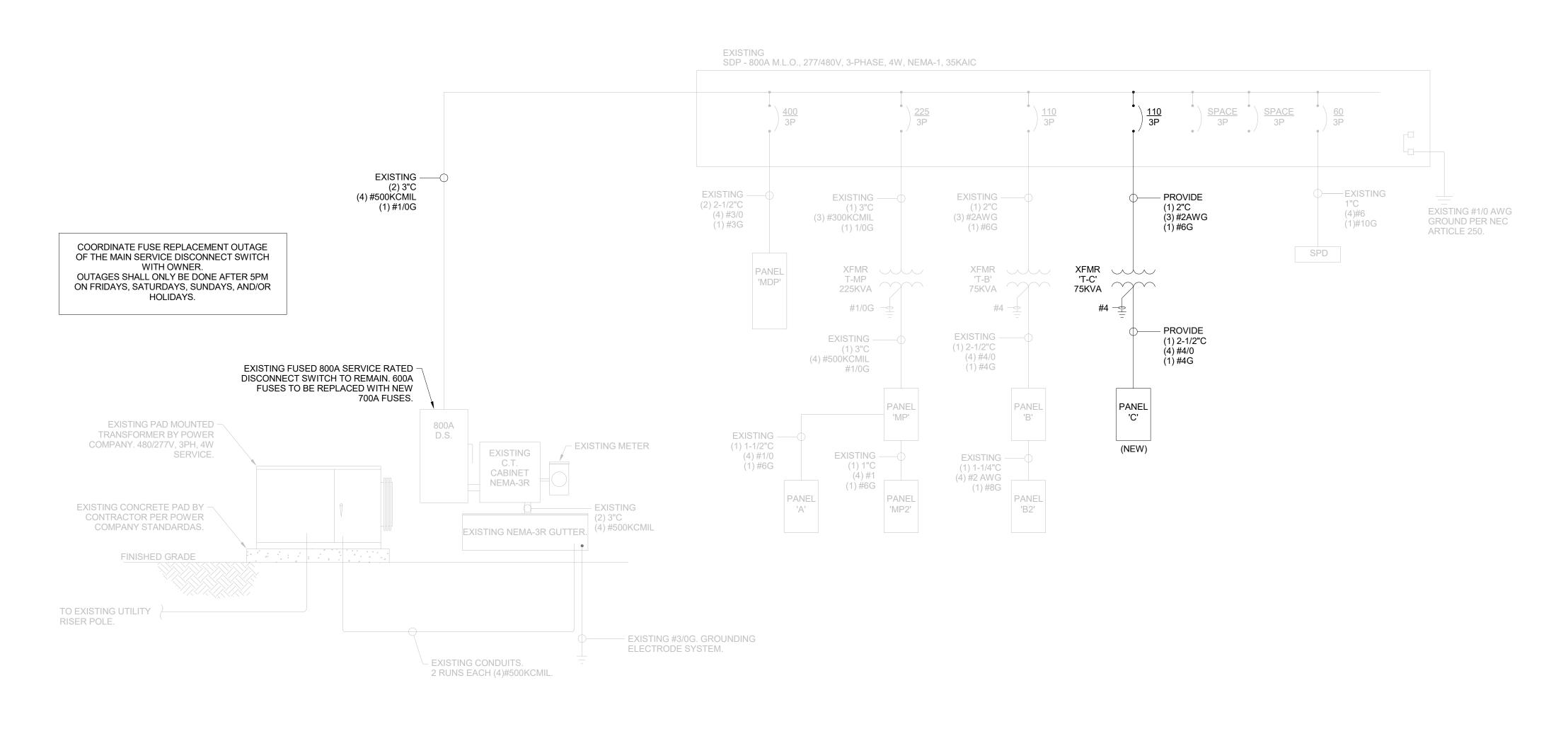
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CONSTRUCTION DOCUMENTS PHASE: ISSUE DATE: 01/24/2025 DRN. BY: CEG

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ESTIMATED ELECTRICAL L (PHASE III)	LOAD		277/480V, 3P
DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAN
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-AMPERS	92779		78989
78989 VA / (480*1.732)	=	95	AMPS
EXISTING ELECTRICAL LOAD	=	435369	VA
(PHASE I & II)		523.7	AMPS
TOTAL CONNECTED LOAD VOLT-AMPERS	=	514358	VA
514358 VA / (480*1.732)	=	618.7	AMPS

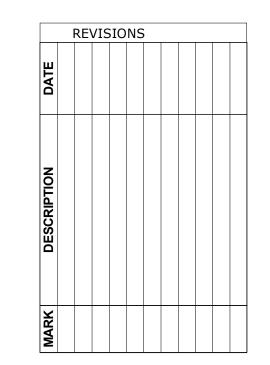






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WORKFORCE SOLUTIONS
PHASE III RENOVATIONS
4981 AYERS STREET
CORPUS CHRISTI, TX 78415

JOB NO. 202415

PHASE: CONSTRUCTION DOCUMENTS

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CKD. BY: JAR

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WORKFORCE SOLUTIONS
PHASE III RENOVATION
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	LIGHT FIX	TURE SCH	IEDULE			
YPE MANUFACTURER & CATALOG NO.	VOLTAGE	WATTS	LUMENS	TEMP	MOUNTED	DESCRIPTION
A8 FINELITE #HP-2-P-D-8'-V-840-F-96-277-SC-FC-10%-FA150-C4-FE-CBA-ABL-8H-CBA	277V	74	6400	4000K	SUSPENDED	8' ACOUSTIC LIT BAFFLE LIT @ 10'6" AFF TO BOTTOM OF FIXTURE
B-EM FINELITE #HP-2-P-D-8'-V-840-F-96-277-SC-FC-10%-FA150-C4-FE-CBA-ABL-8H-CBA-FAC CHO	277V	74	6400	4000K	SUSPENDED	8' ACOUSTIC LIT BAFFLE LIT @ 10'6" AFF TO BOTTOM OF FIXTURE W/2' BATTERY PACK
A4 FINELITE #HP-2-P-D-4'-V-840-F-96-277-SC-FC-10%-FA150-C4-FE-CBA-ABL-8H-CBA	277V	37	3200	4000K	SUSPENDED	4' ACOUSTIC LIT BAFFLE LIT @ 10'6" AFF TO BOTTOM OF FIXTURE
A8U FINELITE #HP-2-P-ABU-8'-FA150-8H-CBA	-	-	-	-	SUSPENDED	8' ACOUSTIC BAFFLE UNLIT @ 10'6" AFF TO BOTTOM OF FIXTURE
A4U FINELITE #HP-2-P-ABU-4'-FA150-8H-CBA	-	-	-	-	SUSPENDED	4' ACOUSTIC BAFFLE UNLIT @ 10'6" AFF TO BOTTOM OF FIXTURE
B1 LITHONIA #2BLT4-48L-ADSM-GZ10-LP840	277V	38	4800	4000K	RECESSED	2'X4' LED TROFFER 5000 LUMENS
B1X LITHONIA #2BLT4-48L-ADSM-GZ10-LP840-EL14L	277V	38	4800	4000K	RECESSED	2'X4' LED TROFFER 5000 LUMENS W/ BATTERY PACK
B2 LITHONIA #2BLT4-60L-ADSM-GZ10-LP840	277V	46	6000	4000K	RECESSED	2'X4' LED TROFFER 6000 LUMENS
B2X LITHONIA #2BLT4-60L-ADSM-GZ10-LP840-EL14L	277V	46	6000	4000K	RECESSED	2'X4' LED TROFFER 6000 LUMENS W/ BATTERY PACK
C LITHONIA #LDN6CYL-40/25-LO6-BR-LSS-MVOLT-GZ10-ACC	277V	28	2500	4000K	SUSPENDED	6" SUSPENDED CYLINDER DOWNLIGHT @ 10' AFF TO BOTTOM OF FIXTURE
D1 LITHONIA #LDN6-40/10-LO6AR-LSS-MVOLT-GZ10	277V	11	1000	4000K	RECESSED	6" RECESSED CAN DOWNLIGHT
D2 LITHONIA #LDN6-40/15-LO6AR-LSS-MVOLT-GZ10	277V	18	1500	4000K	RECESSED	6" RECESSED CAN DOWNLIGHT
D2X LITHONIA #LDN6-40/15-LO6AR-LSS-MVOLT-GZ10-EL	277V	18	1500	4000K	RECESSED	6" RECESSED CAN DOWNLIGHT W/ BATTERY PACK
S LITHONIA #CSS-L48-ALO3-MVOLT-40K-80CRI	277V	35	4000	4000K	SUSPENDED	4' STRIP LED SUSPENDED @ 10'6" AFF TO BOTTOM OF FIXTURE
SX LITHONIA #CSS-L48-ALO3-MVOLT-40K-80CRI-IE10WCPHE	277V	35	4000	4000K	SUSPENDED	4' STRIP LED SUSPENDED @ 10'6" AFF TO BOTTOM OF FIXTURE
EX LITHONIA #LHQM-LED-R-HO-SD	277V	3	-	-	SURFACE	EXIT/EMERGENCY LIGHT COMBO
OA LITHONIA #WDGE1-LED-P1-35K-80CRI-VW-MMVOLT-SRM-E4WH-CBA	277V	10	1200	3500K	SURFACE	EXTERIOR WALL PACK W/EM PACK
DC LITHONIS #LDN6-40/20/L06-AR-LSS-MVOLT0GZ10	277V	22	2009	4000K	RECESSED	6" RECESSED DOWNLIGHT ON CANOPY
DCX LITHONIS #LDN6-40/20/L06-AR-LSS-MVOLT0GZ10-EL	277V	22	2009	4000K	RECESSED	6" RECESSED DOWNLIGHT ON CANOPY W/BATTERY PACK

NOTE #1:0	CBA = COLOR	BY ARCHITECT

VT #	LOAD OFFINED	LOAD	CONDUIT & MUDE CIZE	DIAD OIZE	АВС	DIAD CIZE	CONDUIT & MIDE CIZE	LOAD	LOAD OFFINE	OKT #
KT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	A	BKR SIZE	CONDUIT & WIRE SIZE	LOAD 900	LOAD SERVED ELEC/STORAGE RECP	2 CKT #
1	SPD	-	#10 AWG	20/2	В	20/1	#12 AWG			
3	250	-	#10 AWG	30/3	С	20/1	#12 AWG	1080	SMALL CONFERENCE	4
5	CU-2	4070	#10 AWG	20/0	A	20/1	#12 AWG	720	POWER POLE A	6
7	SS-2	1872	#12 AWG	20/2	В	20/1	#12 AWG	720	II.	8
9		1872	#12 AWG			20/1	#12 AWG	720	"	10
11	SPACE	-	-	-	C	20/1	#12 AWG	720		12
13	SPACE		- "40 0040	-	A	20/1	#12 AWG	800	PRINTER 192	14
15	VAV-1-1	1768	#12 AWG	20/2	В	20/1	#12 AWG	900	POWER POLE B	16
17		1768	#12 AWG	1010	C	20/1	#12 AWG	900	<u>"</u>	18
19	VAV-1-2	4160	#8 AWG	40/2	A	20/1	#12 AWG	900	"	20
21		4160	#8 AWG		В	20/1	#12 AWG	900	"	22
23	VAV-1-3	5304	#4 AWG	60/2	С	20/1	#12 AWG	1080	OFFICE 178/179	24
25		5304	#4 AWG		A	20/1	#12 AWG	1260	OFFICE 180/181	26
27	VAV-1-4	1352	#12 AWG	20/2	В	20/1	#12 AWG	1080	OFFICE 182/183	28
29		1352	#12 AWG		С	20/1	#12 AWG	1080	STORAGE/OPEN SPACE	30
31	VAV-1-5	1456	#12 AWG	20/2	A	20/1	#12 AWG	1080	FURN FEED 193	32
33		1456	#12 AWG		В	20/1	#12 AWG	1080	u	34
35	VAV-1-6	1872	#12 AWG	20/2	С	20/1	#12 AWG	1080	TI .	36
37		1872	#12 AWG		Α	20/1	#12 AWG	1080	II.	38
39	VAV-1-7	2600	#10 AWG	25/2	В	20/1	#12 AWG	1000	PRINTER 193	40
41		2600	#10 AWG		С	20/1	#12 AWG	1080	FURN FEED 193	42
43	VAV-1-8	2704	#10 AWG	30/2	Α	20/1	#12 AWG	1080	"	44
45		2704	#10 AWG		В	20/1	#12 AWG	1080	п	46
47	VAV-1-9	3224	#8 AWG	35/2	С	20/1	#12 AWG	1080	u .	48
49		3224	#8 AWG		Α	20/1	#12 AWG	1000	PRINTER 193	50
51	ROOF RECEP	180	#12 AWG	20/1	В	20/1	#12 AWG	1080	FURN FEED 193	52
53	OFFICE 184/185	1260	#12 AWG	20/1	С	20/1	#12 AWG	1080	u	54
55	OFFICE 186/187	1260	#12 AWG	20/1	A	20/1	#12 AWG	1080	n .	56
57	OFFICE 188/189	1260	#12 AWG	20/1	В	20/1	#12 AWG	1080	II .	58
59	TIME CLOCK	500	#12 AWG	20/1	C	20/1	#12 AWG	360	PATIO ALT #3	60

CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	AE	3 C	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT #
1	COPY MACHINE 130	1400	#12 AWG	20/1	A		20/1*	#12 AWG	1080	IT -190 RACEWAY A	2
3	STORAGE 129	900	#12 AWG	20/1	E	3	20/1*	#12 AWG	1080	II.	4
5	STORAGE 133	360	#12 AWG	20/1		С	20/1*	#12 AWG	1080	IT -190 RACEWAY B	6
7	IT-190 RECP	360	#12 AWG	20/1*	Α		20/1*	#12 AWG	1080	"	8
9	IT-190 RECP	900	#12 AWG	20/1*	E	3	20/1	-	-	SPARE	10
11	IT-190 RECP	900	#12 AWG	20/1*		С	20/1	-	-	SPARE	12
13	SPARE	-	-	20/1	Α		20/1	-	-	SPARE	14
15	SPACE				E	3				SPACE	16
17	SPACE					С				SPACE	18
19	SPACE				Α					SPACE	20
21	SPACE				E	3				SPACE	22
23	SPACE					С				SPACE	24

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

1, 35 KAI	, S/N, SURFACE, NEMA	480 V, 3□, 4W,	800 AMP, M.L.O, 277/4				NG	EXISTIN	'SDP'	PANEL
CKT #	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	АВС	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT#
	XFMR T-B	18860	PER ONE-LINE		Α		PER ONE-LINE	118966	EXISTING	
2	75KVA	16440	PER ONE-LINE	110/3	В	400/3	PER ONE-LINE	120737	PANEL 'MDP'	1
	PANEL 'B'	12380	PER ONE-LINE		С		PER ONE-LINE	117561		
					Α		PER ONE-LINE	21334	EXISTING	
4	SPACE				В	225/3	PER ONE-LINE	24050	XFMR - PNL 'MP'	3
					С		PER ONE-LINE	27124		
					Α		PER ONE-LINE	31752	XFMR T-C	
6	SPACE				В	110/3	PER ONE-LINE	27352	75KVA	5
					С		PER ONE-LINE	27060	PANEL 'C'	
		-	PER ONE-LINE		Α	-	-	-	-	
8	SPD	-	PER ONE-LINE	60/3	В	-	-	-	-	7
		-	PER ONE-LINE	-	С	-	-	-	-	

		EXISTIN					400 AMP, M.L.O., 277/4	oo (, o <u>=</u> ,	, on t, oor a 7 to 2, 1 t 2 t is t	.,
CKT#	LOAD SERVED	LOAD	CONDUIT & WIRE SIZE	BKR SIZE	A B C	BKR SIZE	CONDUIT & WIRE SIZE	LOAD	LOAD SERVED	CKT#
1	SPACE				A	20/1	#12 AWG	3294	LIGHTS PHASE 1	2
3	SPACE				В	20/1 B	#12 AWG	3879	LIGHTS PHASE 3	4
5	SPACE				С		#8 AWG	9418	RTU-1	6
7	RTU-2	12800	#4 AWG		Α	40/3	#8 AWG	9418	"	8
9	II .	12800	#4 AWG	60/3	В		#8 AWG	9418	II .	10
11	II .	12800	#4 AWG		С		#4 AWG	12800	RTU-5	12
13	RTU-4	9418	#8 AWG		Α	60/3	#4 AWG	12800	II	14
15	II.	9418	#8 AWG	40/3	В		#4 AWG	12800	II .	16
17	II .	9418	#8 AWG		С		#8 AWG	9418	RTU-9	18
19	RTU-6	9418	#8 AWG		Α	40/3	#8 AWG	9418	п	20
21	II .	9418	#8 AWG	40/3	В		#8 AWG	9418	II	22
23	II.	9418	#8 AWG		С		#6 AWG	12800	RTU-7	24
25	RTU-8	12800	#4 AWG		Α	50/3	#6 AWG	12800	п	26
27	u .	12800	#4 AWG	60/3	В		#6 AWG	12800	II	28
29	II .	12800	#4 AWG		С		#4 AWG	12800	RTU-10	30
31	RTU-3	12800	#4 AWG		Α	60/3	#4 AWG	12800	п	32
33	u .	12800	#4 AWG	60/3	В		#4 AWG	12800	II .	34
35	II .	12800	#4 AWG		С	20/1	#12 AWG	500	RR-LIGHTS	36
37	SPACE				Α	20/1	#12 AWG	1200	FRONT SIGN	38
39	SPACE				В	20/1	#12 AWG	3061	LIGHTS PHASE 2	40
41	SPACE				С	20/1	#12 AWG	2589	LIGHTS PHASE 2	42

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

01/24/2025

ENGINEERING
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TEXAS ENGINEERING FIRM NO.
005318

24169

ELECTRICAL LEGEND

NOTE: NOT ALL SYMBOLS MAY APPLY TO THIS JOB! SYMBOL DESCRIPTION

- HOMERUN TO CIRCUIT AND PANEL INDICATED
- **NEUTRAL CONDUCTOR**
- HOT CONDUCTOR
- TRAVELER
- SWITCH LEG TOGGLE SWITCH - 120/277V, 20A

GROUNDING CONDUCTOR

- THREEWAY SWITCH 120/277V, 20A
- FOURWAY SWITCH 120/277V, 20A
- DIMMER SWITCH REFER TO LTG CONTROL
- FOR ADDITIONAL INFORMATION
- \$k KEY SWITCH 120/277V, 20A \$M MOTOR RATED SWITCH

REFER 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 -
- → SINGLE RECEPTACLE 125V,20A,1P
- DUPLEX RECEPTACLE 125V,20A,1P
- FLOOR MOUNTED)
- JUNCTION BOX, SIZED PER N.E.C. COMBO RECEPT. & USB CHARGING DEVICE
- HUBBELL #USB20AC5 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
- HB 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
- COMBINATION STARTER/DISCONNECT
- MANUAL MOTOR STARTER

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.
- KP KEY PAD
- AAN FIRE ALARM ANNUCIATOR
- FACP FIRE ALARM CONTROL PANEL
- FS 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)

SECTION 16000 ELECTRICAL SYSTEM

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND DISMANTLING OF TEMPORARY POWER USED FOR CONSTRUCTION AND ALL COSTS 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

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 PENETRATION WORK TO AN ENTITY APPROVED FOR USE BY THE OWNER AND ROOF MANUFACTURER.

SHALL BE AS MANUFACTURED BY SQUARE D, EATON, OR SIEMENS.
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

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

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' <u>SURGE PROTECTION DEVICE (SPD): SPDS SHALL BE UL1449 4TH EDITION LISTED AND MANUFACTURED BY THOR</u> SQUARE D, EATON OR SIEMENS. SPDs SHALL HAVE STANDARD 7-MODE PROTECTION AND SERVICE ENTRANCE & INTERMEDIATE DISTRIBUTION UNITS SHALL BE UL LABELED WITH 20kA I-NOMINAL 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 CODE GAGE GALVANIZED STEEL WITH MOUNTING STUDS, WIRING GUTTERS OF AMPLE 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 CODE 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

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 CLAMPS 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 24" BELOW GRADE. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE, MINIMUM SIZE 3/4". PROVIDE RIGID STEEL ELBOWS WHEN UNDERGROUND CONDUIT PENETRATES 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 1. RIGID STEEL CONDUIT: ANSI C80.1
- 2. INTERMEDIATE STEEL CONDUIT: UL 1242

TO BE COORDINATED WITH MECHANICAL CONTRACTOR.

- 3. ELECTRICAL METALLIC TUBING AND FITTINGS: ANSI C80.3
- 4. FLEXIBLE METAL CONDUIT: ZINC COATED STEEL.
- 5. LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS: UL 360. FITTINGS TO BE SPECIFICALLY APPROVED FOR USE WITH THIS RACEWAY.
- 6. MC CABLE 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 "THHN" INSULATION MAY NOT BE USED UNDERGROUND AT SERVICE ENTRANCES, OUTSIDE, OR IN WET LOCATIONS. ALI 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:

ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5-20R, SIDE OR BACK WIRED.

RECEPTACLES. UL RATED CLASS A, GROUP 1, SOLID STATE GROUND-FAULT SENSING LEVEL WITH 5 ma GROUND-FAULT TRIP LEVEL. HUBBELL #1G5362#. (DEVICE COLOR IS DEPENDENT ON AREA OF

S: ALL LIGHTING FIXTURES AND ASSOCIATED LAMPS AND BALLASTS SHALL BE FURNISHED / 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

CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS 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 DISCONNECTION 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

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

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.

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.

3. 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
- 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.

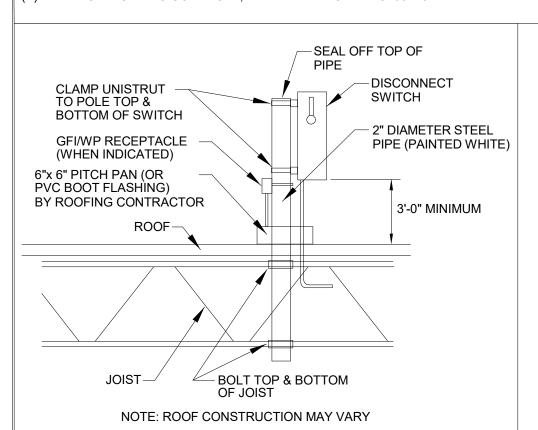
LIGHTING CONTROL NARRATIVE

- 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 C406.3) METHOD WILL BE UTILIZED TO SATISFY THE ADDITIONAL EFFICIENCY

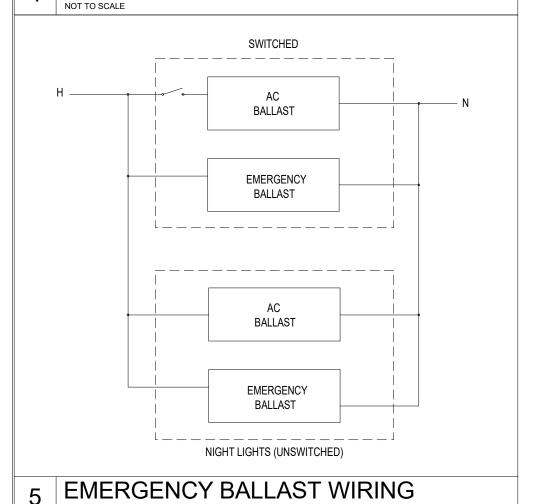
LIGHTING SYSTEM CONTROLS FUNCTIONAL TESTING (IECC C408.3):

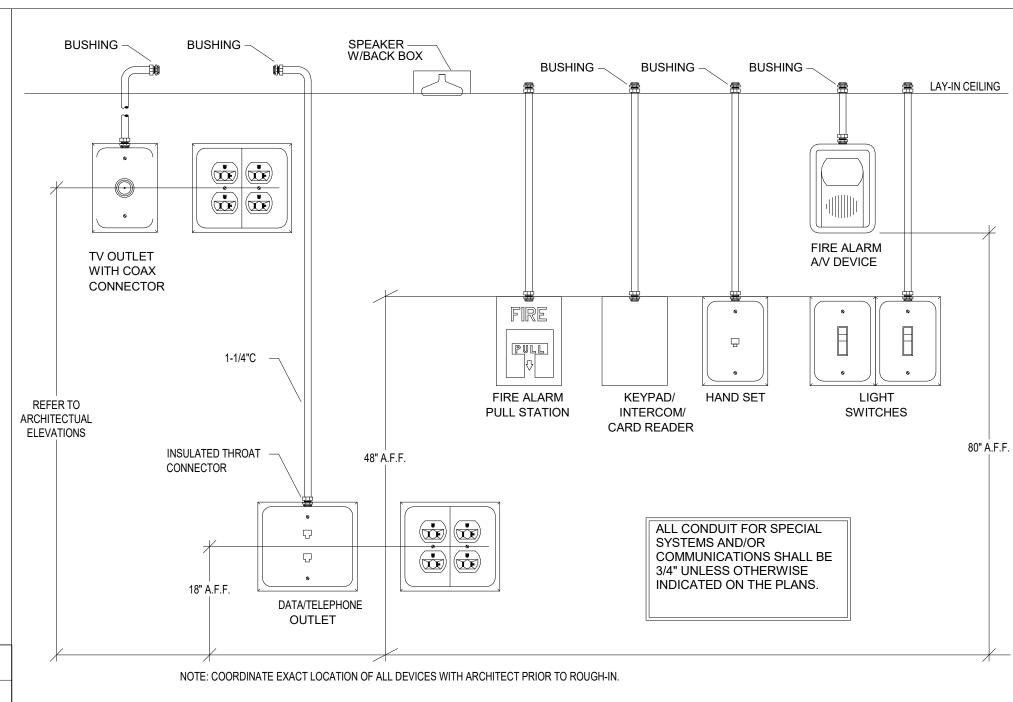
UNDER 2015 IECC, LIGHTING SYSTEM CONTROLS TESTING IS REQUIRED FOR ALL COMMERCIAL PROJECTS. A LETTER FROM THE THIRD PARTY REGISTERED DESIGN PROFESSIONAL OR COMMISSIONING AGENT THAT FOLLOWS THE REQUIREMENT IN C408.3.1 WILL FULFILL THIS REQUIREMENT. THIS INCLUDES IN PARTICULAR:

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

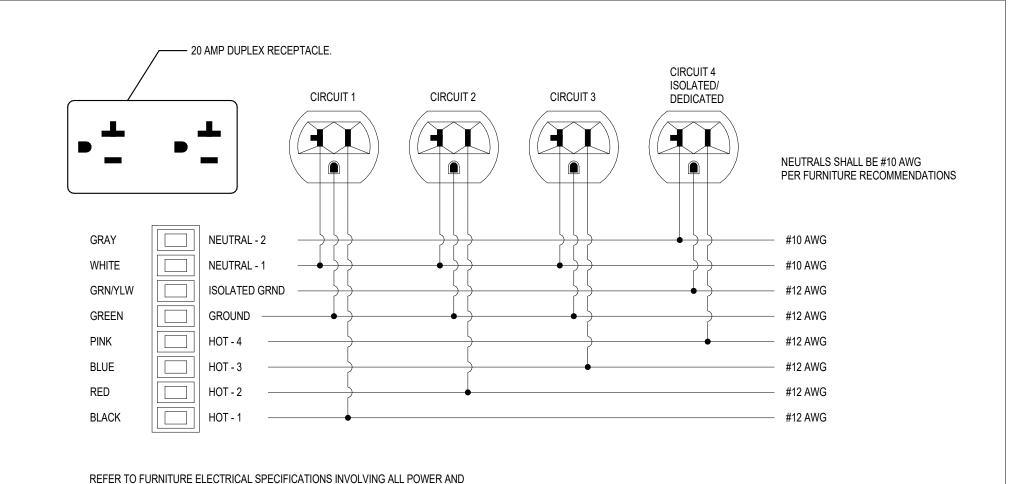


DISCONNECT MOUNTING DETAIL

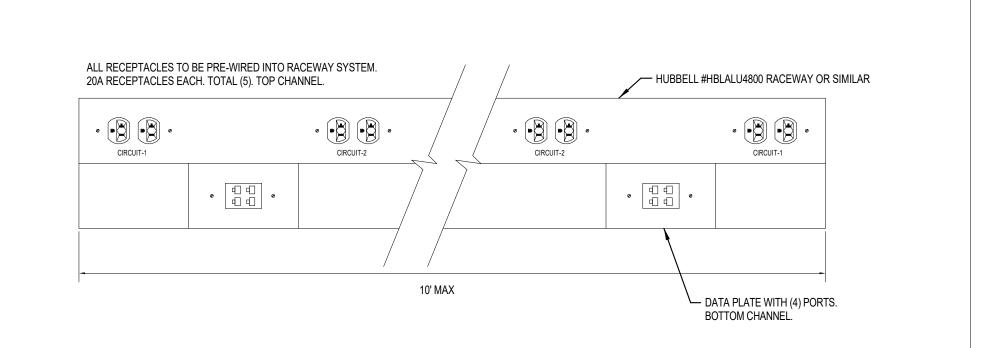




TYPICAL DEVICE ELEVATIONS (UNLESS NOTED OTHERWISE)

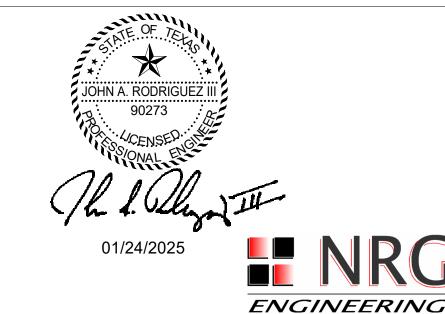


2 FOUR CIRCUITS, 3 + 1 RECEPTACLE OPTION, WIRING DIAGRAM



PRE-WIRED RACEWAY SYSTEM DIAGRAM

DATA RECOMMENDATIONS.



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TEXAS ENGINEERING FIRM NO.

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202415 | PHASE: CONSTRUCTION DOCUMENTS **ISSUE DATE** 01/24/2025 DRN. BY: CEG CKD. BY:

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architects & associate

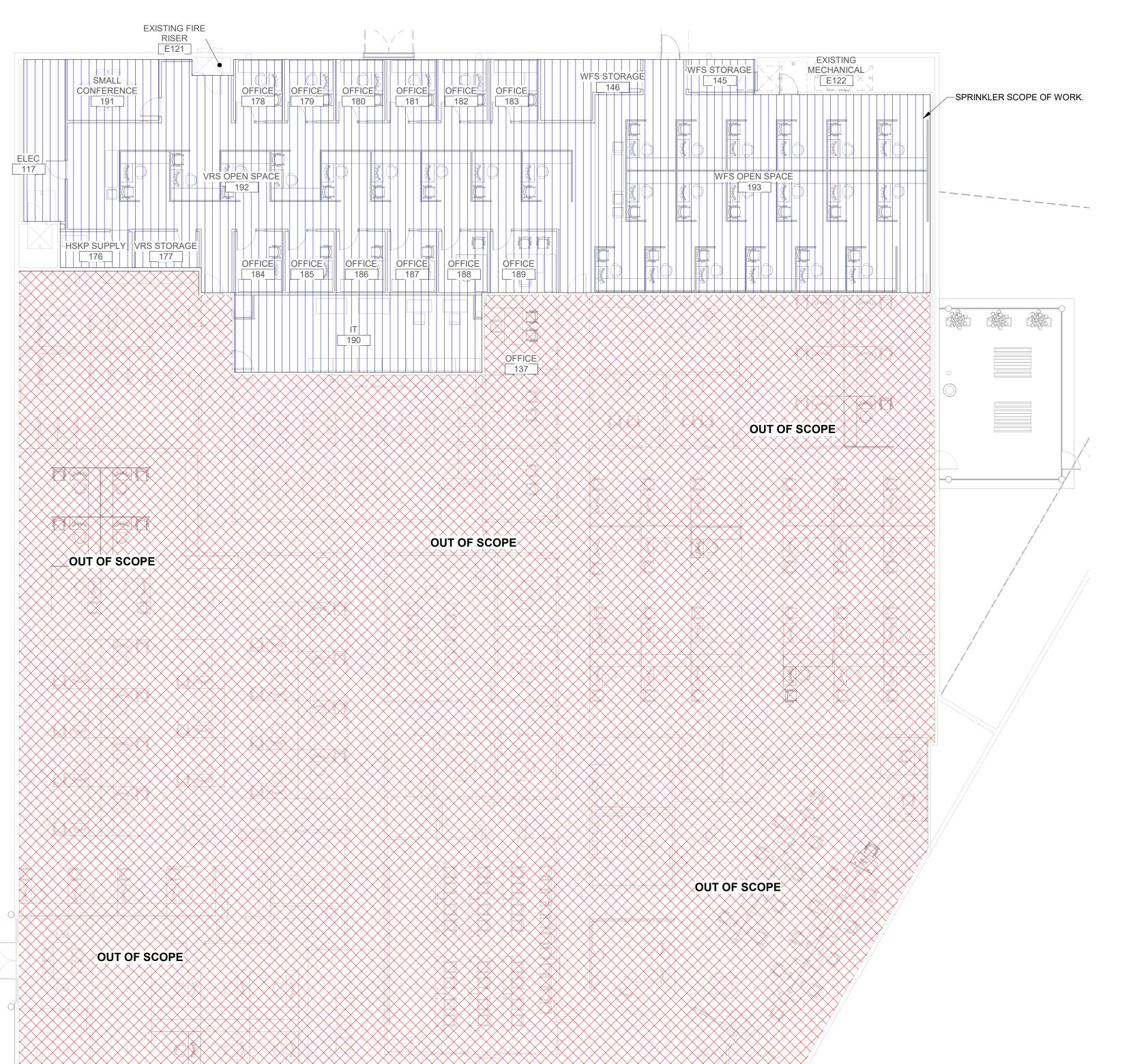
615 N. Upper Broadway

Corpus Christi, TX

Suite 1250

78401-0750

REVISIONS



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

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, BUILIDNG 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 OWNÉR, 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						

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4981 AYERS STREET CORPUS CHRISIT, TX 78415

WORKFORCE SOLUTIONS PHASE III RENOVATION

CONSTRUCTION DOCUMENTS 02/04/2025

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