





ABBREVIATIONS

A LABEL	CLASS A DOOR	ECU	EVAPORATIVE COOLING UNIT	MAINT	MAINTENANCE	SIM	SIMILAR
A/C	AIR CONDITIONER	EF	EXTERIOR FINISH	MATL	MATERIAL	SKLT	SKYLIGHT
A/E	ARCHITECT / ENGINEER	EFS	EXTERIOR FINISH SYSTEM	MAX	MAXIMUM	SLD WDW	SLIDING WINDOW
AAP	ALARM ANNUNCIATOR PANEL	EGB	EXTERIOR GYPSUM BOARD	MBR	MASTER BEDROOM	SND	SANITARY NAPKIN DISPENSER
ABC	AGGREGATE BASE COURSE	EGSB	EXTERIOR GYPSUM SHEATHING BOARD	MC	MEDICINE CABINET	SP	STAG PIPE
AC	ASBESTOS CEMENT,	EH	ELECTRIC HEATER	MECH	MECHANICAL	SPEC	SPECIFICATIONS
ASPHALTIC	CONCRETE	EHD	ELECTRIC HAND DRYER	MED	MEDICAL	SPKLR	SPRINKLER
ACC	ACCESSIBLE	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MEMB	MEMBRANE	SPKR	SPEAKER
ACP	ASPHALTIC CONCRETE	EL	ELEVATOR	MEZZ	MEZZANINE	SQ	SQUARE
PAVING	ACOUSTICAL	ELECT	ELECTRIC	MFR	MANUFACTURER	STA	STATION
ACST	ACOUSTICAL CEILING TILE	ELEV	ELEVATION	MH	MANHOLE	STC	SOUND TRANSMISSION CLASS
ACT	AREA DRAIN	EMER	EMERGENCY	MIN	MINIMUM, MINUTE	STD	STANDARD
AD	ADDITIONAL	ENCL	ENCLOSURE	MIRR	MIRROR	STO	STORAGE
ADDL	ADDENDUM	EMS	ENERGY MANAGEMENT SYSTEM	MISC	MISCELLANEOUS	STR	STAIRS
ADDM	ADHESIVE	ENCL	ENCLOSURE	MLDG	MOLDING	STRUC	STRUCTURAL
ADH	ADJACENT	ENG	ENGINEER	MLWK	MILLWORK	SUH	SUSPENDED UNIT HEATER
ADJ	ADHESIVE	ENTR	ENTRANCE	MO	MASONRY OPENING	SV	SHEET VINYL
AFF	ABOVE FINISH FLOOR	EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	MRB	MARBLE BASE	SWBD	SWITCH BOARD
AFC	ABOVE FINISH GRADE	EQ	EQUAL	MS	MOP SINK	SYM	SYMBOL
AGGR	AGGREGATE	EQUIP	EQUIPMENT	MT	MOUNTED	SYS	SYSTEM
AHU	AIR HANDLING UNIT	ERD	EXISTING ROOF DRAIN	MTL	METAL		
ALT	ALTERNATE	EST	ESTIMATED	MULL	MULLION		
ALUM	ALUMINUM	EVAP	EVAPORATIVE	MVBL	MOVABLE	T	TREAD
ANOD	ANODIZE	EWC	ELECTRIC WATER COOLER	N	NORTH	T&G	TONGUE AND GROOVE
ANT	ANTENNA	EWI	ELECTRIC WATER HEATER	NA	NOT APPLICABLE	T/S	TUB / SHOWER
AP	ACCESS PANEL	EWS	EYE WASH STATION	NAT	NATURAL	TB	TOWEL BAR
APPROX	APPROXIMATE	EXC	EXCAVATE	NIC	NOT IN CONTRACT	TC	TELEPHONE CONTROL PANEL
ARCH	ARCHITECT	EXIST	EXISTING	NO	NUMBER	TCA	TOWEL DISPENSER, TRENCH DRAIN
ASC	ABOVE SUSPENDED CEILING	EXP	EXPOSED	NOM	NOMINAL	TD	TOWEL DISPENSER, TRENCH DRAIN
ASPH	ASPHALT	EXT	EXTERIOR	NR	NOISE REDUCTION	TEL	TELEPHONE
ASSY	ASSEMBLY			NTS	NOISE REDUCTION COEFFICIENT	TEMP	TEMPERATURE
ATM	AUTOMATIC TELLER	FA	FIRE ALARM			TFA	TO FLOOR ABOVE
MACHINE	AUTOMATIC	FAAP	FIRE ALARM ANNUNCIATOR PANEL			TFB	TO FLOOR BELOW
AUTO	AUTOMATIC	FACP	FIRE ALARM CONTROL PANEL	OA	OVERALL	THD	THREAD
AV	AUDIO VISUAL	FAS	FASZIA	OC	ON CENTER	THK	THICKNESS
AVE	AVENUE	FB	FIRE BLANKET	OD	OUTSIDE DIAMETER	THRES	THRESHOLD
		FCO	FLOOR CLEANOUT	OF	OWNER FURNISHED	THRU	THROUGH
B LABEL	CLASS B DOOR	FD	FLOOR DRAIN	OFD	OVERFLOW DRAIN	TK BD	TACK BOARD
BALC	BALCONY	FDC	FIRE DEPARTMENT CONNECTION	OFF	OFFICE	TMPD GL	TEMPERED GLASS
BB	BULLETIN BOARD	FE	FIRE EXTINGUISHER	OH	OPOSITE HAND	TN	TRUE NORTH
BD	BOARD	FEC	FIRE EXTINGUISHER CABINET	OP	OPENING	TOB	TOP OF BEAM
BDARY	BOUNDARY	FEE	FINISH FLOOR	OPP	OPPOSITE	TOC	TOP OF CURB
BEV	BEVEL	FFE	FINISH FLOOR ELEVATION	OSB	ORIENTED STRAND BOARD	TOF	TOP OF FOOTING
BITU	BITUMINOUS	FH	FIRE HYDRANT			TOJ	TOP OF JOIST
BJT	BED JOINT	FHC	FIRE HOSE CABINET	PA	PUBLIC ADDRESS	TOM	TOP OF MASONRY
BLDG	BUILDING	FIN	FINISH	PAR	PARALLEL	TOP	TOP OF PARAPET
BLVD	BOULEVARD	FIXT	FIXTURE	PB	PULL BOX	TOPC	TOPOGRAPHY
BLW	BELOW	FLASH	FLASHING	PBD	PARTICLE BOARD	TOW	TOP OF WALL
BM	BENCH MARK	FLR	FLOOR	PCF	POUNDS PER CUBIC FOOT	TPD	TOILET PAPER DISPENSER
BOT	BOTTOM	FLUOR	FLUORESCENT	PED	PEDESTAL	TPH	TOILET PAPER HOLDER
BR	BEDROOM	FP	FIREPROOFING	PERF	PERFORATED	TR	TOWEL RACK
BRG	BEARING	FR	FIRE RESISTANT	PREFAB	PREFABRICATED	TRANS	TRANSOM
BRZ	BRONZE	FAST	FASTENER	PER	PERMETER	TS	TUBE STEEL
BTWN	BETWEEN	FT	FOOT	PFE	PORTABLE FIRE EXTINGUISHER	TOWEL	TOWEL SHELF
BUR	BUILT-UP ROOFING	FTG	FOOTING	PG	PRESSURE GAUGE	TSTAT	THERMOSTAT
		FURN	FURNACE	PLAM	PLASTIC LAMINATE	TV	TELEVISION
C	CELSIUS	FUT	FUTURE	PLYWD	PLYWOOD	TYP	TYPICAL
C LABEL	CLASS C DOOR			PNL	PANEL		
CAB	CABINET	G	NATURAL GAS	PR	PIPE RAIL	UC	UNDERCUT
CAD	COMPUTER AIDED DRAFTING	GA	GAUGE	PREFIN	PREFINISHED	UGND	UNDERGROUND
CAT	CATALOG	GALV	GALVANIZED	PRKG	PARKING	UH	UNIT HEATER
CATV	COMMUNITY ANTENNA	GB	GRAB BAR	PSF	POUNDS PER SQUARE FOOT	UL	UNDERWRITERS LABORATORIES
	TELEVISION	GC	GENERAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH	UNFIN	UNFINISHED
CCTV	CLOSE CIRCUIT TELEVISION	GGO	GROUND CLEAN OUT	PT	PAPER TOWEL DISPENSER	UNIV	UNIVERSAL
CEM	CEMENT	GL	GLASS	PTD	PARTITION	UNO	UNLESS NOTED OTHERWISE
CF	CONCRATOR FURNISHED	GLU LAM	GLUED LAMINATED WOOD	PTN	PAPER TOWEL RECEPACLE	UTIL	UTILITY
CFE	CONTRACTOR FURNISHED EQUIPMENT	GLZ	GLAZING	PTR	PAPER TOWEL RECEPACLE		
	COUNTERFLASHING	GT	GREASE TRAP	PVG	PAVING	VAC	VACUUM
CFG	CORNER GUARD	GYM	GYMNASIUM			VAN	VANITY
CH BD	CHALK BOARD	GYP	GYPSUM	QT	QUARRY TILE	VAP PRF	VAPOR PROOF
CI	CAST IRON	HAZ	HAZARD	OTB	QUARRY TILE BASE	VAR	VARIES
CIR	CIRCLE	HB	HOSE BIB	QTF	QUARRY TILE FLOOR	VB	VINYLBASE
CIRC	CIRCUMFERENCE	HC	HANDCAP, HOLLOW CORE	QTY	QUANTITY	VCT	VINYL COMPOSITION TILE
CK	CAULK	HD	HAND DRYER, HEAD			VEH	VEHICLE
CL	CENTER LINE	HDBD	HARD BOARD	R	RADIUS	HD	HAND DRYER, HEAD
CLG	CEILING	HDR	HEADER	RB	RESILIENT BASE	VENT	VENTILATION
CLO	CLOSET	HDW	HARDWARE	RH	ROBE HOOK	VEST	VESTIBULE
CLRM	CLASSROOM	HDM	HOLLOW METAL	RCP	REFLECTED CEILING PLAN	VID	VIDEO
CM	CENTIMETERS	HORIZ	HORIZONTAL	RCTP	RECEPTION	VNR	VENEER
CMU	CONCRETE MASONRY UNIT	HS	HAND SINK	RD	ROOF DRAIN	VOL	VOLUME
COL	COLUMN	HT	HEIGHT	REBAR	REINFORCING STEEL BARS	VOLT	VOLTAGE
COMB	COMBINATION	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	REF	REFERENCE	VR	VAPOR RETARDER
COMM	COMMUNICATION			REFL	REFLECTED	VRFY	VERIFY
COMP	COMPONENT			REFR	REFRIGERATOR	VTR	VENT THROUGH ROOF
COMPT	COMPARTMENT	I/O	INPUT / OUTPUT	REG	REGISTER	VWV	VINYL WALL COVERING
CONC	CONCRETE	ID	INSIDE DIAMETER	REIN	REINFORCED		
CONSTR	CONSTRUCTION	IIC	IMPACT INSULATION CLASS (INCHES)	REIN	REINFORCED	W	WEST
CONT	CONTINUOUS	IN	INCHES	REMO	REMOVABLE	W/	WITH
CONTR	CONTRACTOR	INCL	INCLUDE	REQD	REQUIRED	W/O	WITHOUT
CORR	CORRIDOR	INFO	INFORMATION	RESIL	RESILIENT	W/W	WALL TO WALL
CPT	CARPET	INT	INTERIOR	REST	RESTROOM	WB	WOOD BASE
CR	CONTROL ROOM	INSUL	INSULATION	REV	REVISION	WBL	WOOD BLOCKING
CT	CERAMIC TILE	RH	RIGHT HAND	RFRG	REFRIGERATION	WCL	WATER CLOSET
CTB	CERAMIC TILE BASE	RHR	RIGHT HAND REVERSE	RL	ROOF LEADER	WCL	WALL CLEAN OUT
CTR	CENTER	RM	ROOM	RHT	RIGHT OF WAY	WD	WOOD
CU	CUBIC	RO	ROUGH OPENING	RT	RIGHT	WDW	WINDOW
		ROW	RIGHT OF WAY	RTU	ROOF TOP UNIT	WFAB	WALL FABRIC
D	DRAIN	RV	ROOF VENT	RTU	ROOF TOP UNIT	WGL	WIRED GLASS
D LABEL	CLASS D DOOR			RTU	ROOF TOP UNIT	WH	WATER HEATER
dB	DECIBEL			RV	ROOF VENT	WHSE	WAREHOUSE
DBL	DOUBLE	K	KILO, THOUSAND			WLD	WELDED
DEG	DEGREE	KIT	KITCHEN	S	SOUTH	WLD	WATER METER
DEMO	DEMOLITION	KO	KNOCK OUT	SB	SPLASH BLOCK	WM	WATER PROOFING
DEPT	DEPARTMENT	KPL	KICK PLATE	SC	SOLID CORE	WSCT	WAINSCOT
DF	DRINKING FOUNTAIN			SC	SCHEDULE	WSL	WEATHER SEAL
DIA	DIAMETER	L	LITER	SCHED	SCHEDULE	WT	WEIGHT
DIAG	DIAGONAL	LAB	LABORATORY	SCHEM	SCHEMATIC	WU	WINDOW UNIT
DIM	DIMENSION	LAD	LADDER	SCP	SCUPPER	WWF	WELDED WIRE FABRIC
DISP	DISPENSER	LAM	LAMINATED	SCR	SHOWER CURTAIN ROD	WWM	WELDED WIRE MESH
DIV	DIVISION	LDR	LEADER	SCRN	SCREEN		
DL	DEAD LOAD	LH	LEFT HAND	SCWD	SOLID CORE WOOD DOOR	X BRACE	CROSS
DMPF	DAMP PROOFING	LHR	LEFT HAND REVERSE	SD	SMOKE DETECTOR	XL	EXTRA LARGE
DN	DOWN	LIB	LIBRARY	SECT	SECTION	XPS	EXTRUDED POLYSTYRENE BOARD
DR	DOOR	LL	LIVE LOAD	SH	SINGLE HUNG	YCO	YARD CLEANOUT
DS	DOWNSPOUT	LNG	LIQUID NATURAL GAS	SHT	SHIFT	YD	YARD
		LPT	LOW POINT	SHLVS	SHELVES	YH	YARD HYDRANT
		LVR	LOUVER	SHT	SHEET	YR	YEAR
		LWC	LIGHT WEIGHT CONCRETE	SHTHG	SHEATHING		
DTL	DETAIL	M	METER				
DW	DISHWASHER	MACH	MACHINE				
DWG(S)	DRAWING(S)						
E LABEL	CLASS E DOOR						
EA	EACH						

GENERAL NOTES


- PRE-CONSTRUCTION**

  - CONTRACTOR SHALL SCHEDULE AND CONDUCT A PRE-DEMOLITION MEETING WITH THE OWNER AND THE ARCHITECT PRIOR TO PROCEEDING WITH DEMOLITION IN EACH AREA. CONTRACTOR SHALL BE PREPARED FOR AND PARTICIPATE IN WEEKLY OWNER / ARCHITECT / CONTRACTOR MEETING IF REQUESTED.
  - CONTRACTOR SHALL RECORD MEETING MINUTES AND DISTRIBUTE TO ALL ATTENDEES WITHIN THREE WORKING DAYS. TOPICS TO INCLUDE, BUT NOT LIMITED TO SCHEDULE, PHASING, VERIFICATION OF EXISTING UTILITIES AND POWER OUTAGES.
  - IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR VISITS THE SITE PRIOR TO BID TO FAMILIARIZE THEM SELVES TO ALL EXISTING CONDITIONS.
  - ALL QUESTIONS AND CLARIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO SUBMITTAL OF BIDS.
- DRAWINGS**


  - VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK, ANY CONFLICT AND / OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
  - WHERE DIMENSIONAL OR DETAIL DISCREPANCIES EXIST BETWEEN THE PLANS AND SECTIONS AND DETAILS, THESE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH WORK.
  - ALL ELECTRICAL AND MECHANICAL FIXTURES EXPOSED TO VIEW SHALL BE LOCATED AS INDICATED ON THE ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICT, VERIFY WITH THE ARCHITECT BEFORE PROCEEDING WITH WORK.
  - FOR INTERIOR WALL ASSEMBLIES REFER TO PARTITION TYPES ON DRAWINGS.
  - FOR ASSEMBLY LOCATION REFER TO FLOOR PLANS, FOR CEILING ASSEMBLIES REFER TO RCP DETAILS. REFER TO REFLECTED CEILING PLAN FOR ASSEMBLY LOCATIONS.
  - WHERE REQUIRED, FURR-OUT PARTITIONS TO ACCOMMODATE PIPING AND CONDUITS LARGER OR DEEPER THAN THE PARTITIONS THICKNESS INDICATED, FURRING AROUND PIPE / CONDUIT OR FURRING OUT OF ENTIRE PARTITION TO BE DETERMINED BY THE ARCHITECT TO BE ACCEPTABLE.
  - ALL GYPSUM BOARD WALL SHALL BE 5/8 F.C. OR TYPE "X" FIRE RATED.
- PROJECT SIGN**

  - PROJECT SIGN SHALL BE PROVIDED AND INSTALLED PRIOR TO BEGINNING WORK.
  - RENOVATIONS AND TENANT IMPROVEMENTS: 24"x36" WINDOW DECAL PLACED IN HIGHLY VISIBLLE LOCATION.
  - NEW CONSTRUCTION: 4'x8' PLYWOOD CONSTRUCTION SIGN WITH GRAPHICS ADHERED TO THE FRONT, 4'x8' IN SIZE, MOUNTED ON POSTS, WITH A HEIGHT TO TOP OF SIGN OF 10'.
  - PROJECT SIGN GRAPHICS SHALL BE AS ILLUSTRATED BELOW.


SYMBOLS




CAST-IN-PLACE CONCRETE




GRAVEL




EARTH




MASONRY CMU



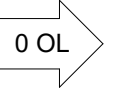
MASONRY BRICK




METAL



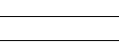
WOOD




EXIT OCCUPANT LOAD AND DIRECTION OF EGRESS




DEMOLITION WALLS



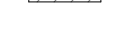
EXISTING WALLS




NEW WALLS




NOT IN CONTRACT



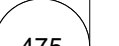
COLUMNS



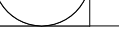
STEEL TRUSSES




OCCUPANCY LOAD



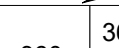
OCCUPANCY AREA



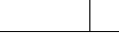
OCCUPANCY ALLOWANCE IBC 2015 - 1004.1.2



MAX. EXIT LOAD

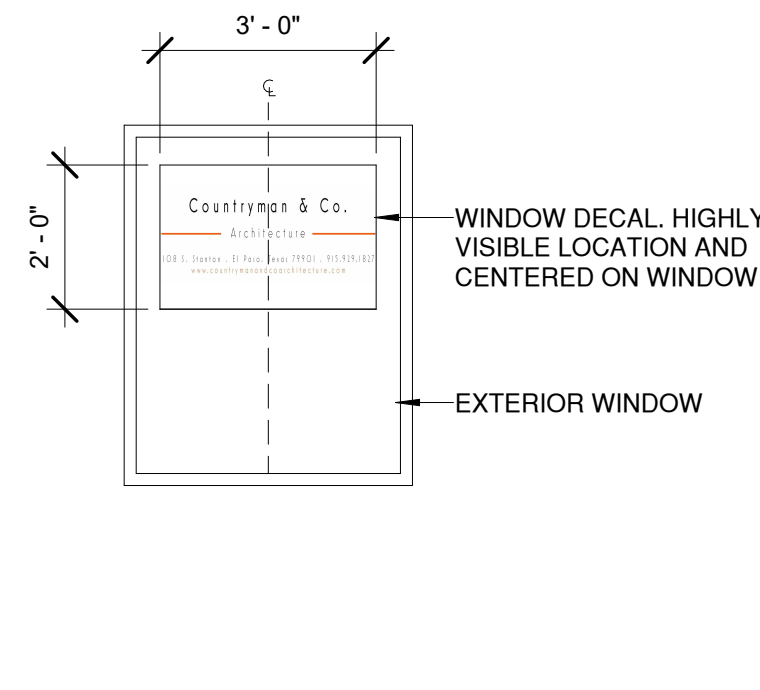


EGRESS PER OCCUPANT



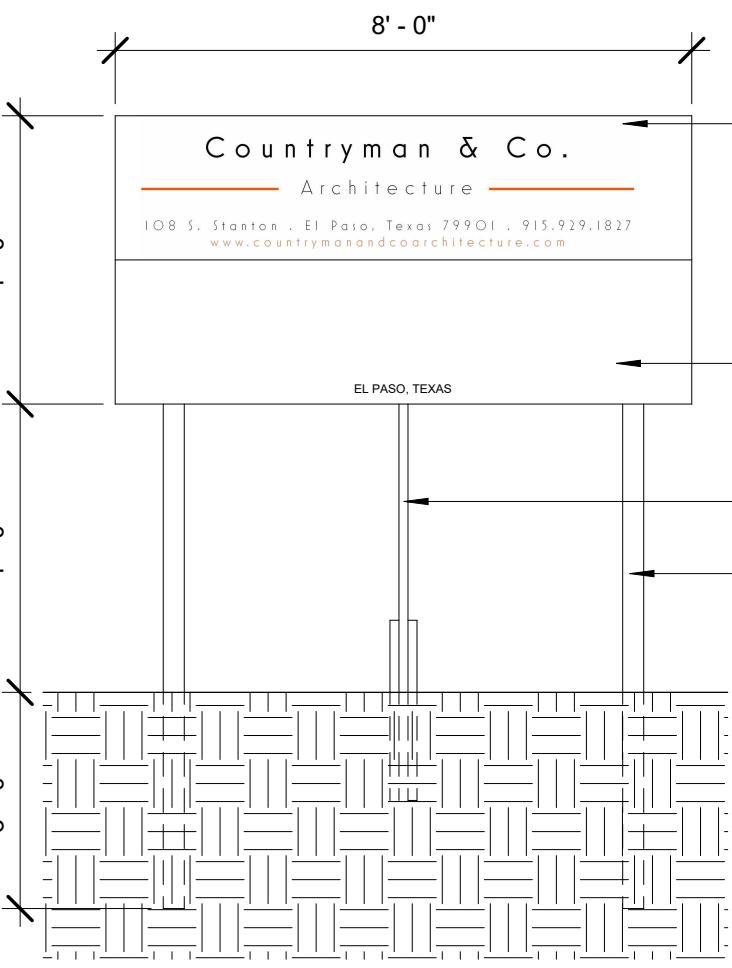
ACTUAL OCCUPANCY LOAD

RENOVATION

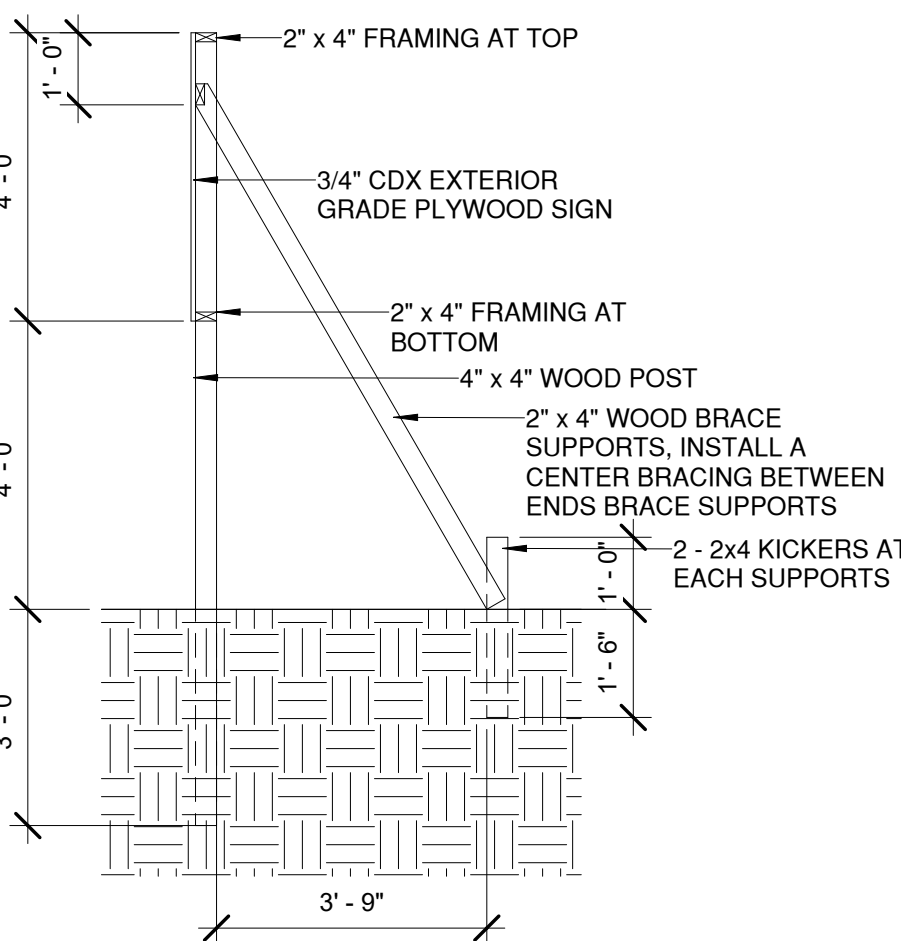


PROJECT SIGN - WINDOW DECAL

NEW CONSTRUCTION



PROJECT SIGN - ELEVATION



PROJECT SIGN - BRACING

- NOTE:
- CHECK FOR UNDERGROUND UTILITIES AND IRRIGATION SYSTEM PRIOR TO DIGGING POST HOLES
  - ALL LUMBER SHALL BE PRESSURE TREATED (PAINTED) LANE, TOWARDS INCOMING TRAFFIC, CENTERED WITHIN 10 FT OF THE FRONT BOUNDARY LINE



CONSTRUCTION DOCUMENTS

TORNILLO INDEPENDENT SCHOOL DISTRICT  
GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

ABBREVIATIONS, LEGENDS & SYMBOLS

DRAWN BY: AL  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

REVISION SCHEDULE:

NO	DATE	DESCRIPTION

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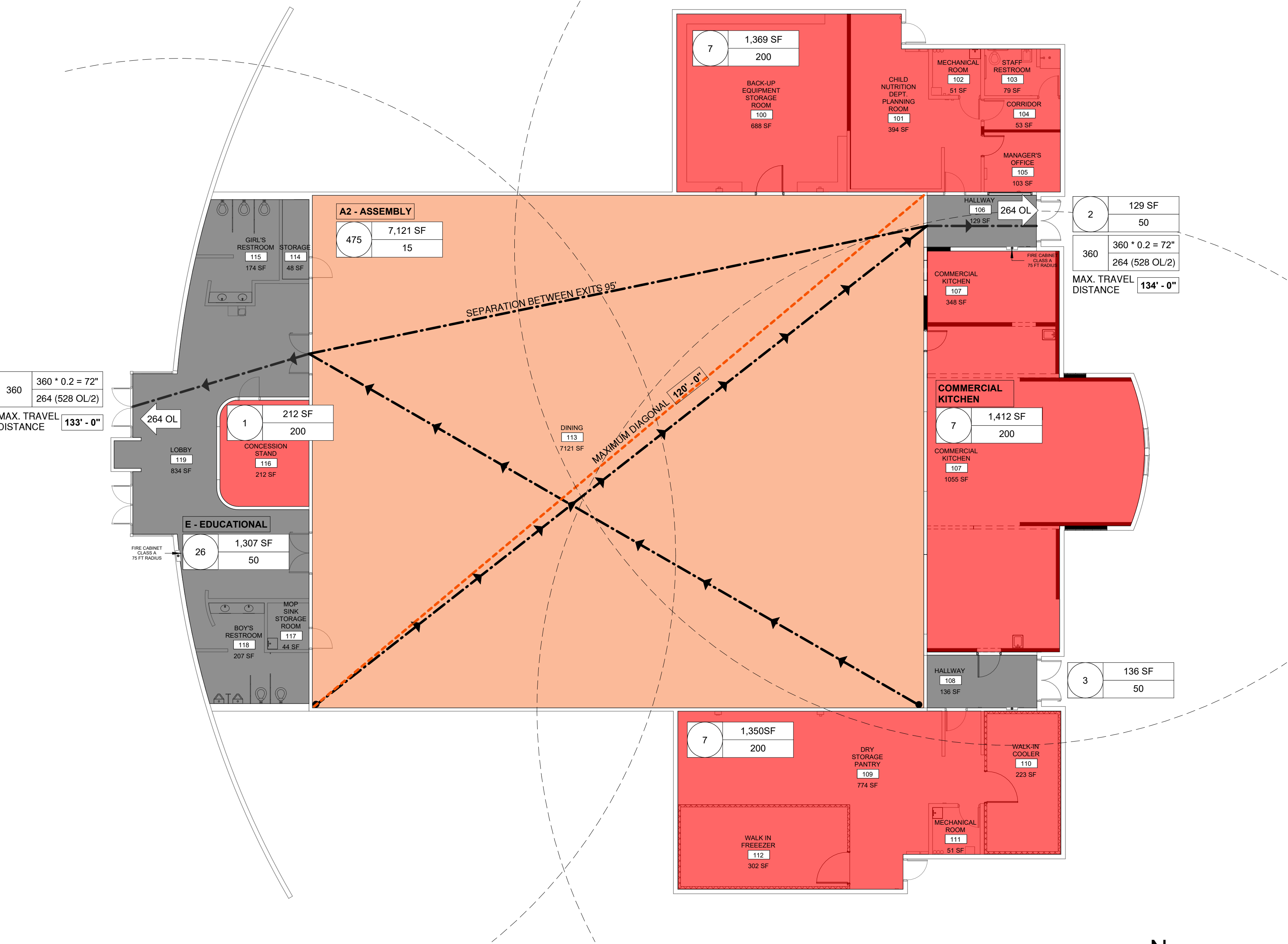
Countryman & Co.  
Architecture

108 SOUTH STANTON • THIRD FLOOR • EL PASO, TEXAS 79901 915.929.1827









01 BUILDING CODE ANALYSIS

LIFE SAFETY LEGENDS



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108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: PJ | AL  
PROJECT NO: 2022-16  
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BUILDING CODE ANALYSIS

CODE	DATA	CODE	DATA
CLASSIFICATION OF WORK:	EXISTING BUILDING, LEVEL 3 RENOVATION	GENERAL BUILDING REQ.	FUNCTION: E - EDUCATIONAL ALLOWABLE HEIGHT (IB 504.3): 55 FT ALLOWABLE N. STORIES (IB 504.4): 2 STORIES ALLOWABLE AREA (IBC 506.2): 14,500 SF
CODE ORDINANCES:	INTERNATIONAL BUILDING CODE (IBC), 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2015 INTERNATIONAL FIRE CODE (IFC), 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 INTERNATIONAL MECHANICAL CODE (IMC), 2015 INTERNATIONAL PLUMBING CODE (IPC), 2015 NATIONAL ELECTRIC CODE (NEC), 2015 TEXAS ACCESSIBILITY STANDARDS (TAS), 2012		FUNCTION: A-2 ASSEMBLY ALLOWABLE HEIGHT (IB 504.3): 55 FT ALLOWABLE N. STORIES (IB 504.4): 2 STORIES ALLOWABLE AREA (IBC 506.2): 9,500 SF
ADDRESS:	TORNILLO MIDDLE SCHOOL 300 OIL MILL DR. TORNILLO, TEXAS 79853	TOTAL OCCUPANCY LOAD:	FUNCTION: COMMERCIAL KITCHEN AREA: 4,343 SF OCCUPANCY LOAD (IBC1004.1.2): 4,343 SF / 200 = 22 OL
ARCHITECT:	COUNTRYMAN & CO. 108 S. STANTON ST.   THIRD FLOOR EL PASO, TX 79901 CT: JENNIFER COUNTRYMAN, AIA PH: 915.929.1827 EMAIL: JENNIFER@COUNTRYMANANDCOARCHITECTURE.COM		FUNCTION: A-2 ASSEMBLY AREA: 7,121 SF OCCUPANCY LOAD (IBC1004.1.2): 7,121 SF / 15 = 475 OL
OWNER:	TORNILLO INDEPENDENT SCHOOL DISTRICT 19200 COBB AVE.   TORNILLO, TEXAS 79853 CT: RENE ESTRADA, DIRECTOR OF FACILITIES AND TRANSPORTATION PH: 915.497.4203 EMAIL: EstradaRe@tisd.us		FUNCTION: E - EDUCATIONAL AREA: 1,572 SF OCCUPANCY LOAD (IBC1004.1.2): 1,572 SF / 50 = 31 OL
SCOPE OF WORK:	LEVEL 3 RENOVATION CONVERSION OF A PORTION OF THE EXISTING GYM TO A COMMERCIAL KITCHEN	TOTAL OCCUPANCY:	528 OL
OCCUPANCY USE:	GROUP A-2 - ASSEMBLY (IBC 303.3 USES INTENDED FOR FOOD AND/OR DRINK CONSUMPTION) GROUP E - EDUCATIONAL (IBC 305.1 USES INTENDED FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.)	SEPARATION OCCUPANCIES (IBC 508.4):	NO SEPARATION REQUIREMENT
TOTAL BUILDING SF:	13,036 SF (100%)	MEANS OF EGRESS (IBC 1005.1):	STAIRCASES: NOT APPLICABLE OTHER MEANS: 528 * 0.2 = 106" / 36" = THREE 36" EXITS REQUIRED PROVIDED: 288" (4 - 72" EXITS PROVIDED)
RENOVATION SF:	4,608 SF (35%)	EXIT TRAVEL DISTANCE (IBC 1017.2):	EDUCATION OCC. W/ SPRINKLERS: 250 FT A-2 ASSEMBLY W/ SPRINKLERS: 250 FT
CONSTRUCTION TYPE:	TYPE II-B	MIN. NO PLUMBING FIXTURES (IBC 2902.1)	WATER CLOSETS: E: 1 PER 50, 31 OCCUPANTS = 1 REQUIRED A2: FEMALE 1 PER 75, 238 OCCUPANTS = 3 REQUIRED   3 PROVIDED MALE 1 PER 75, 237 OCCUPANTS = 3 REQUIRED   4 PROVIDED 7 WATER CLOSET REQUIRED   8 PROVIDED
FOOD SERVICE:	YES	LAVATORIES:	E: 1 PER 50, 31 OCCUPANTS = 1 REQUIRED A2: 1 PER 200, 475 OCCUPANTS = 2 REQUIRED 3 LAVATORIES REQUIRED   5 PROVIDED
MIN. NUMBER OF EXITINGS PER OCCUPANCY LOAD (IBC 2015):	OCCUPANCY LOAD 1 TO 500, MIN. NO. OF EXISTS REQ: 2 NUMBER OF EXISTS PROVIDED: 4	DRINKING FOUNTAINS:	E: 1 PER 200, 31 OCCUPANTS = 1 REQUIRED A-2: 1 PER 500, 475 OCCUPANTS = 1 REQUIRED 2 DRINKING FOUNTAINS REQUIRED   1 DRINKING FOUNTAIN PROVIDED AND 1 WATER FILLER PROVIDED
AUTOMATIC FIRE SPRINKLER SYSTEM (IBC 903.2.1.2, 2015):	E - EDUCATIONAL: REQUIRED A2 - ASSEMBLY: REQUIRED	SERVICE SINK:	E: 1 SERVICE SINK REQUIRED A-2: 1 SERVICE SINK REQUIRED 2 SERVICE SINKS REQUIRED   3 PROVIDED
FIRE ALARM (IBC 907.2, 2015):	E-EDUCATION: REQUIRED A2 - ASSEMBLY: REQUIRED		
TABS NO.			



TORNILLO INDEPENDENT SCHOOL DISTRICT  
GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

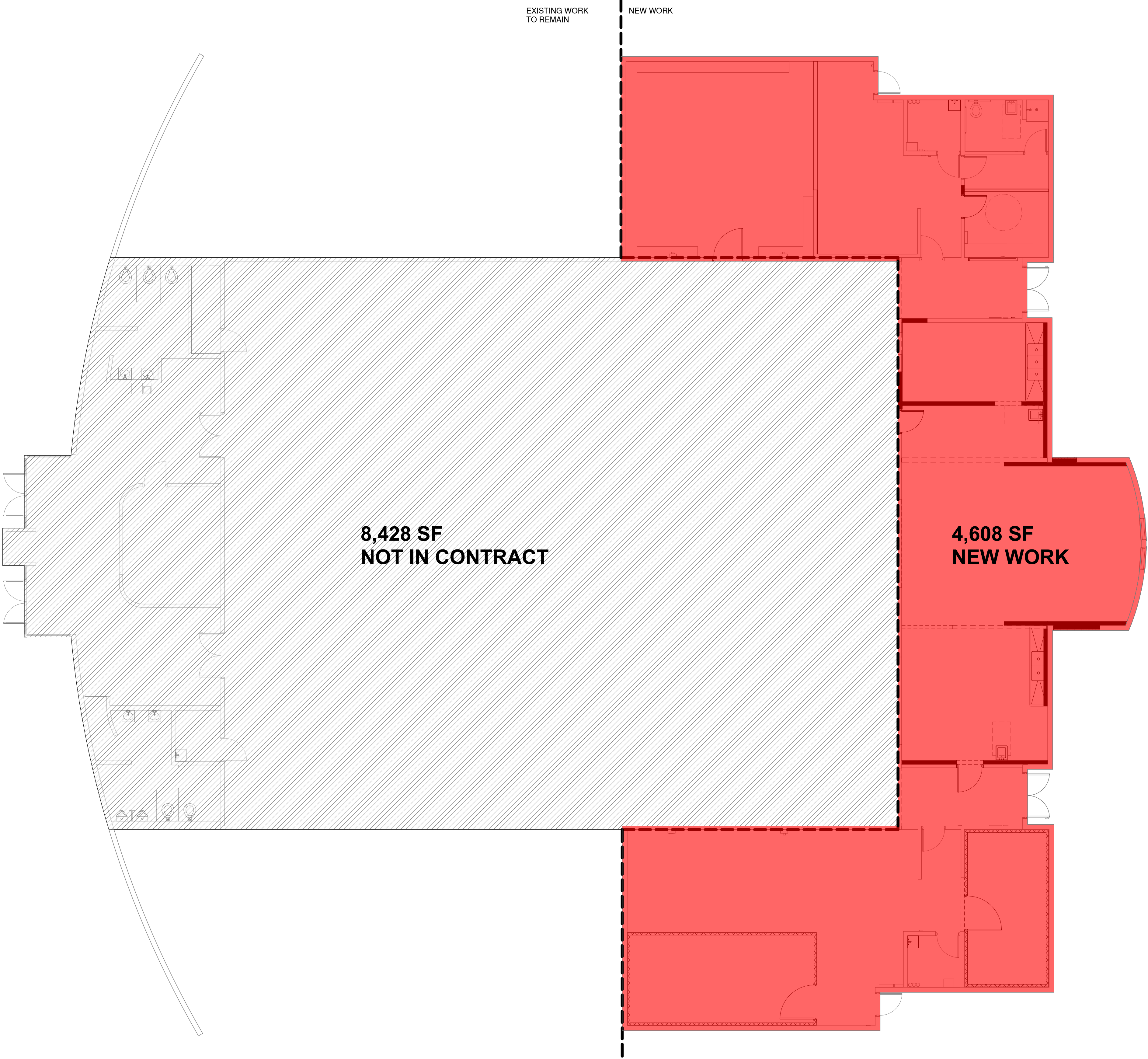
SHEET TITLE:

BUILDING CODE ANALYSIS

CONSTRUCTION  
DOCUMENTS

G003





01 REFERENCE FLOOR PLAN  
1/8" = 1'-0"

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108 SOUTH STANTON, THIRD FLOOR, EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: AL  
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NO.	DATE	DESCRIPTION

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# TORNILLO INDEPENDENT SCHOOL DISTRICT GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

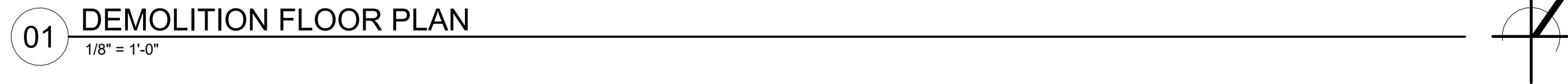
## REFERENCE FLOOR PLAN



CONSTRUCTION  
DOCUMENTS

AR100





108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



REVISION SCHEDULE:

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.

<div>A</div> <div>EXTERIOR   INTERIOR WALL</div> <div>6" TILT-UP WALL (CONCRETE PANEL JOINTS ARE SHOWN IN FLOOR PLAN)</div>	<div>B</div> <div>INTERIOR PARTITION WALL</div> <div>6"x8"x8" PAINTED CMU</div>	<div>C</div> <div>INTERIOR PARTITION</div> <div>6"x8"x8" PAINTED CMU WITH 1 9/16" THICK OF 8"x16" GROUND FACE CAP BLOCK</div>	<div>D</div> <div>INTERIOR PARTITION</div> <div>7" METAL STUD FURR-OUT WALL ATTACHED TO A 6x8x8 CMU WALL</div>	<div>E</div> <div>INTERIOR PARTITION</div> <div>6"x8"x8" CMU WITH 1" TILE ATTACHED. LOCATED JUST IN SHOWERS.</div>	<div>F</div> <div>INTERIOR PARTITION</div> <div>6"x8"x8" TWO ROWS OF CMU AND 1" TILE ATTACHED. LOCATED JUST IN SHOWERS.</div>
<div>G</div> <div>EXTERIOR WALL</div> <div>6"X8"X16" CMU WITH EIFS SYSTEM</div>	<div>H</div> <div>EXTERIOR WALL</div> <div>6"x8"X8" CMU WITH EIFS SYSTEM</div>				

NO.	ITEM DESCRIPTION
01	DEMOLISH AS NEEDED TO ACHIEVE NEW OPENINGS FOR NEW DOORS PLACEMENT. REFER TO DOOR SCHEDULE AND STRUCTURAL DRAWINGS
02	DEMOLISH AS NEEDED TO ACHIEVE NEW OPENINGS FOR NEW WINDOWS PLACEMENT. REFER TO DOOR SCHEDULE AND STRUCTURAL DRAWINGS
03	REMOVE EXISTING PLUMBING FIXTURES. REFER TO PLUMBING DRAWINGS.
04	ALL FURNITURE IS TO BE REMOVED PRIOR TO CONSTRUCTION COMMENCEMENT AND RETURNED TO OWNER, OR DISPOSED OF, AT THEIR DIRECTION.
05	REMOVE EXISTING DOOR AND FRAME. PREPARE FOR NEW WORK AND REFER TO NEW DRAWINGS FOR INFILL OR OPENING SPECIFICATIONS.
06	REMOVE EXISTING WINDOW AND FRAME. PREPARE FOR NEW WORK AND REFER TO NEW DRAWINGS FOR INFILL OR OPENING SPECIFICATIONS.
07	REMOVE EXISTING FLOOR FINISHES AND VINYL WALL BASE. PREPARE FOR NEW WORK AND REFER TO FINISH SCHEDULES.
08	DEMOLISH CONCRETE PLATFORM AND PREPARE FOR NEW FINISH FLOOR. REFER TO FINISH SCHEDULE.
09	CAREFULLY CUT PORTION OF CONCRETE PLATFORM FOR NEW ENTRANCE. PREPARE FOR NEW FINISH FLOOR. REFER TO FINISH SCHEDULE.
10	MEP INFRASTRUCTURE TO REMAIN. REFER TO MEP DRAWINGS FOR MORE INFORMATION.
11	FIRE ALARM DEVICES TO BE RELOCATED AS NEEDED THROUGHOUT PROJECT. REFER TO ELECTRICAL DRAWINGS.
12	ELECTRONIC SECURITY PANEL TO REMAIN.
13	ELECTRICAL EQUIPMENT. REFER TO MEP DRAWINGS
14	THERMOSTAT. REFER TO MEP DRAWINGS.
15	FIRE EXTINGUISHER CABINET TO REMAIN.

**CAUTION : LOAD-BEARING, STRUCTURAL ELEMENTS ARE SHOWN TO BE DEMOLISHED. REFER TO THE STRUCTURAL DRAWINGS. COMPLY WITH THE STRUCTURAL ENGINEER'S DIRECTIVES.**



CONSTRUCTION  
DOCUMENTS

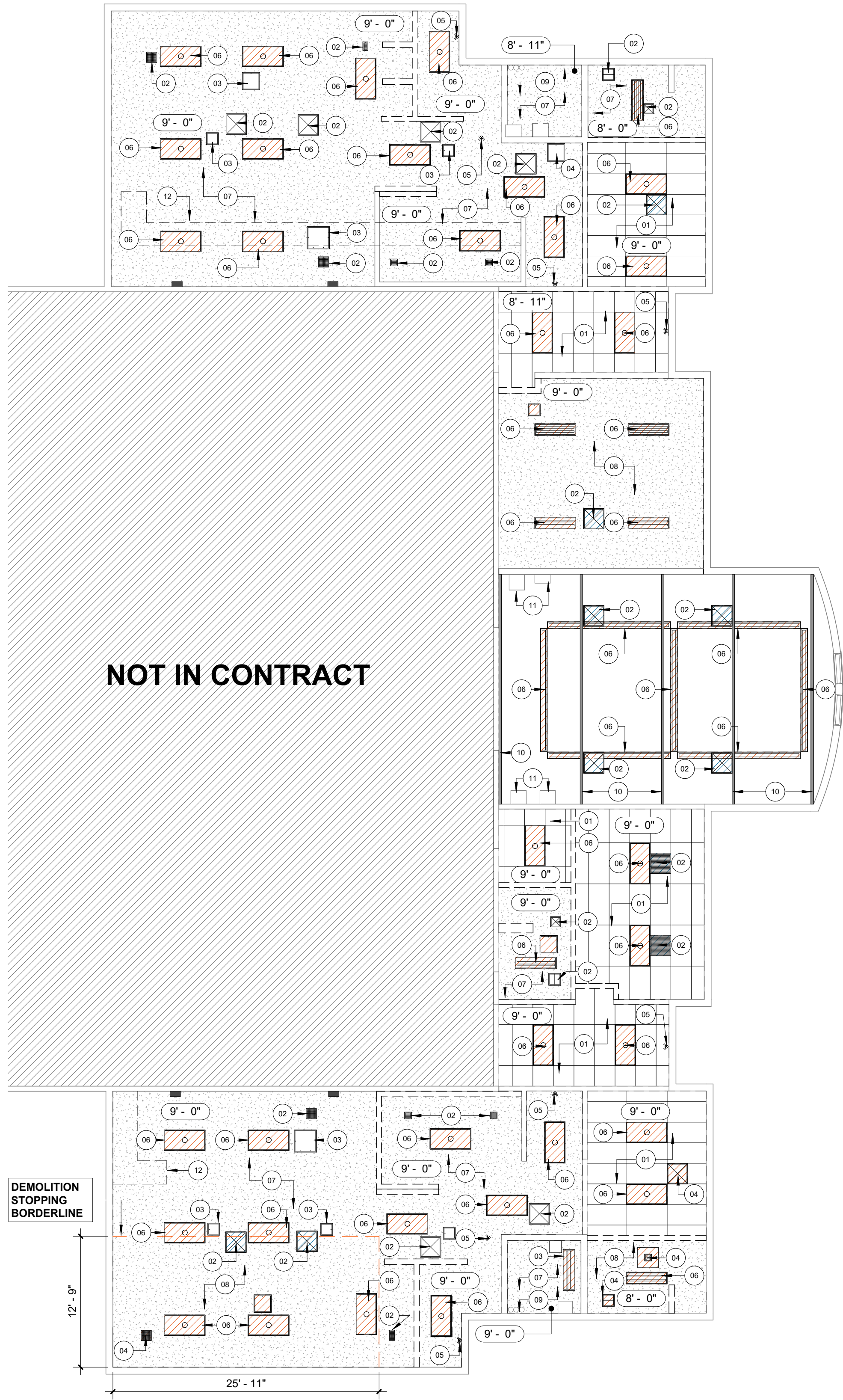
300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

## DEMOLITION FLOOR PLAN & PRESUMED WALL TYPES

# AD100





01 DEMOLITION REFLECTED CEILING PLAN  
1/8" = 1'-0"

Countryman & Co.  
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: AL  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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DEMOLITION NOTES	
NO.	ITEM DESCRIPTION
01	REMOVE ALL EXISTING LAY-IN CEILING, AND ACOUSTICAL GRID. COORDINATE WITH NEW WORK. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
02	MECHANICAL SUPPLIES AND MISCELLANEOUS ITEMS TO REMAIN AND TO BE ADJUSTED IF NECESSARY TO ALIGN WITH NEW LAY-IN CEILING. REFER TO MECHANICAL DRAWINGS.
03	CEILING ACCESS DOOR TO REMAIN ON EXISTING GYP. BOARD TO REMAIN.
04	REMOVE ALL MECHANICAL AND MISCELLANEOUS ITEMS AT COOLER   FREEZER LOCATIONS. COORDINATE WITH NEW DRAWINGS.
05	REMOVE ALL CEILING MOUNTED EXIT SIGNS AND EMERGENCY LIGHTS. COORDINATE WITH NEW WORK. REFER TO ELECTRICAL DRAWINGS
06	CAREFULLY REMOVE ALL LIGHT FIXTURES AND MISCELLANEOUS ITEMS, AND PREPARE FOR NEW WORK. PATCH AND REPAIR AS NEEDED ON EXISTING GYP.. TO REMAIN. REFER TO ELECTRICAL DRAWINGS.
07	EXISTING GYP. BOARD AND SUPPORT TO REMAIN. PATCH, PAINT AND REPAIR IF NECESSARY. MATCH EXISTING CEILING TECTURE.
08	REMOVE GYP. BOARD CEILING, COORDINATE WITH NEW WORK. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
09	MEP INFRASTRUCTURE TO REMAIN. REFER TO MEP DRAWINGS FOR MORE INFORMATION.
10	STEEL TRUSSES TO REMAIN.
11	VERTICAL DUCTWORK TO REMAIN.
12	CAREFULLY SAW CUT GYP. BOARD CEILING TO INSTALL NEW RETURN DUCTWORK. REFER TO MECHANICAL DRAWINGS. PATCH, PAINT AND REPAIR AS NEED TO MATCH EXISTING CEILING TEXTURE.

LEGEND	
	TO BE ADJUSTED
	TO BE REMOVED
	TO REMAIN



## TORNILLO INDEPENDENT SCHOOL DISTRICT GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

## DEMOLITION REFLECTED CEILING PLAN

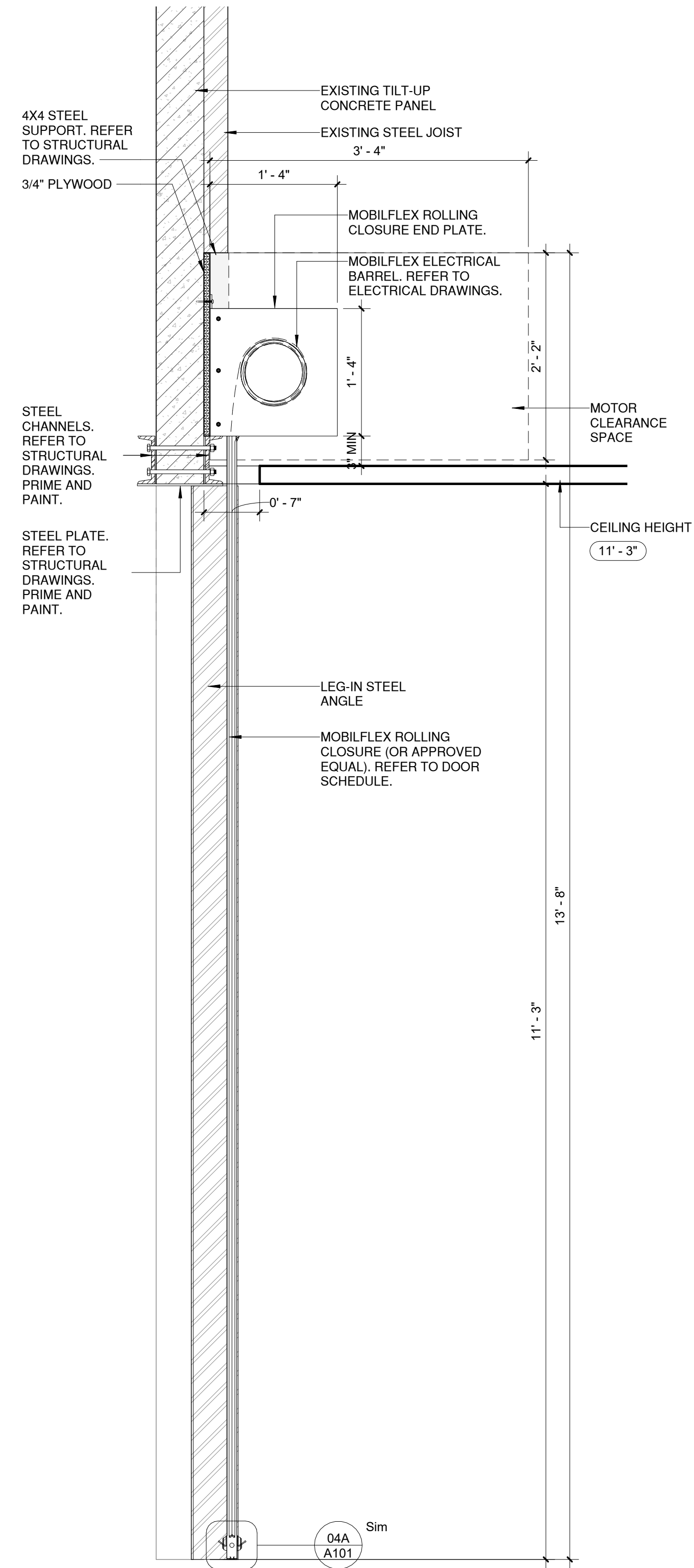
CONSTRUCTION  
DOCUMENTS

AD120

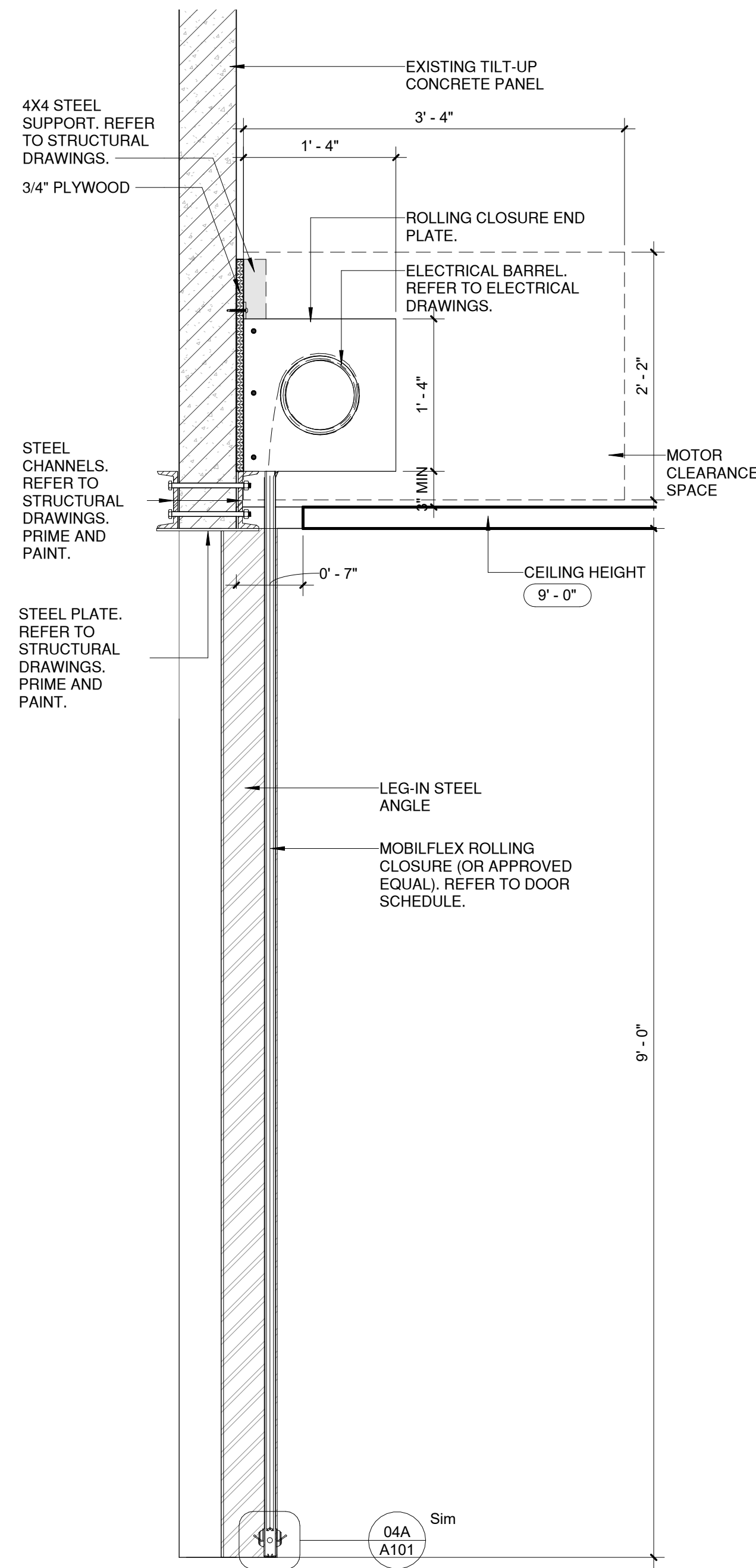




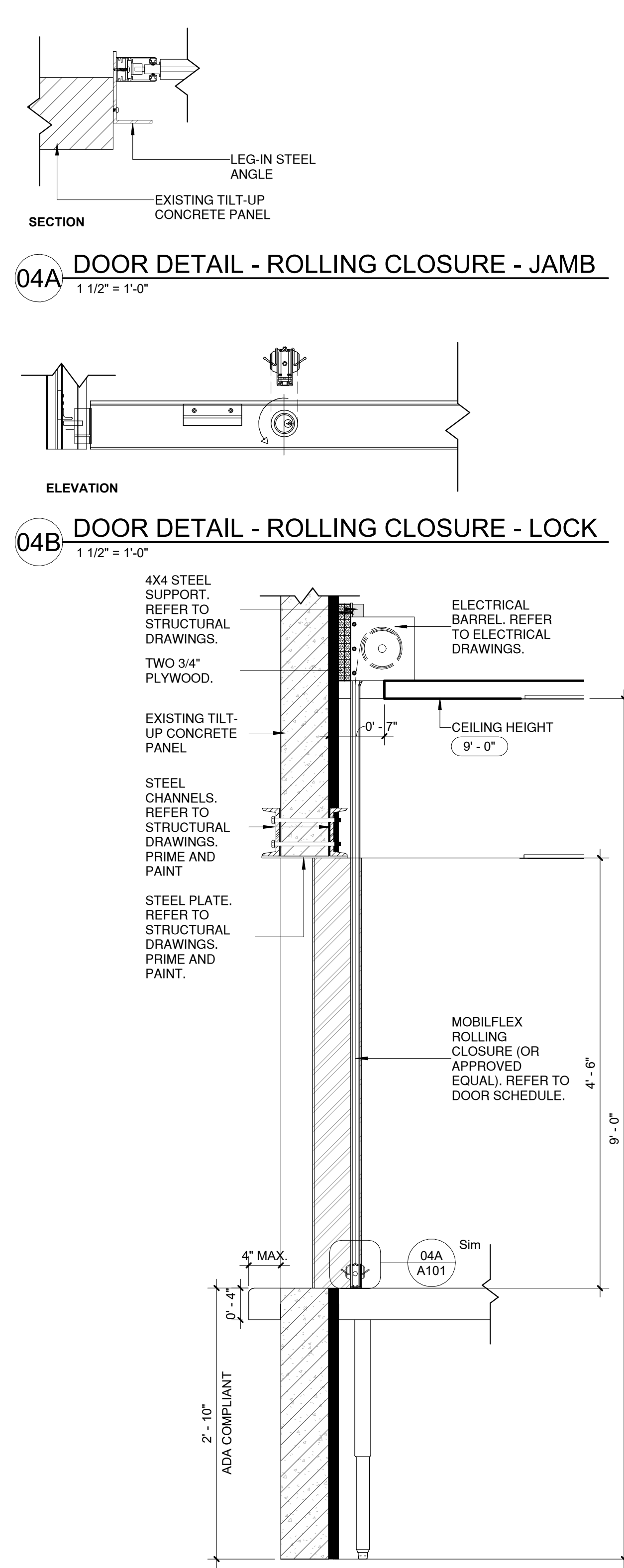




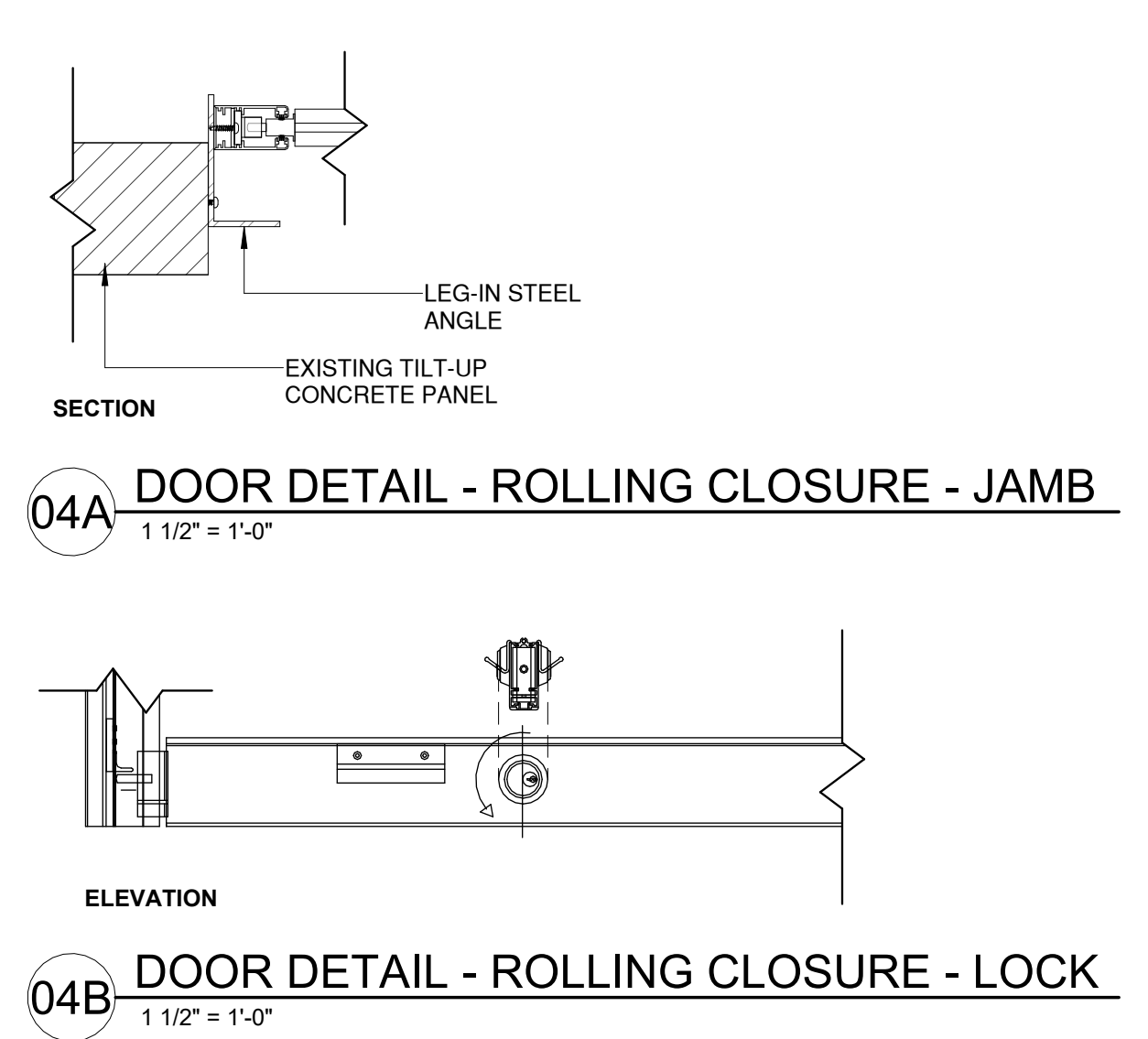
01 DOOR DETAIL - ROLLING CLOSURE - 11' - 3" OPENING  
1" = 1'-0"



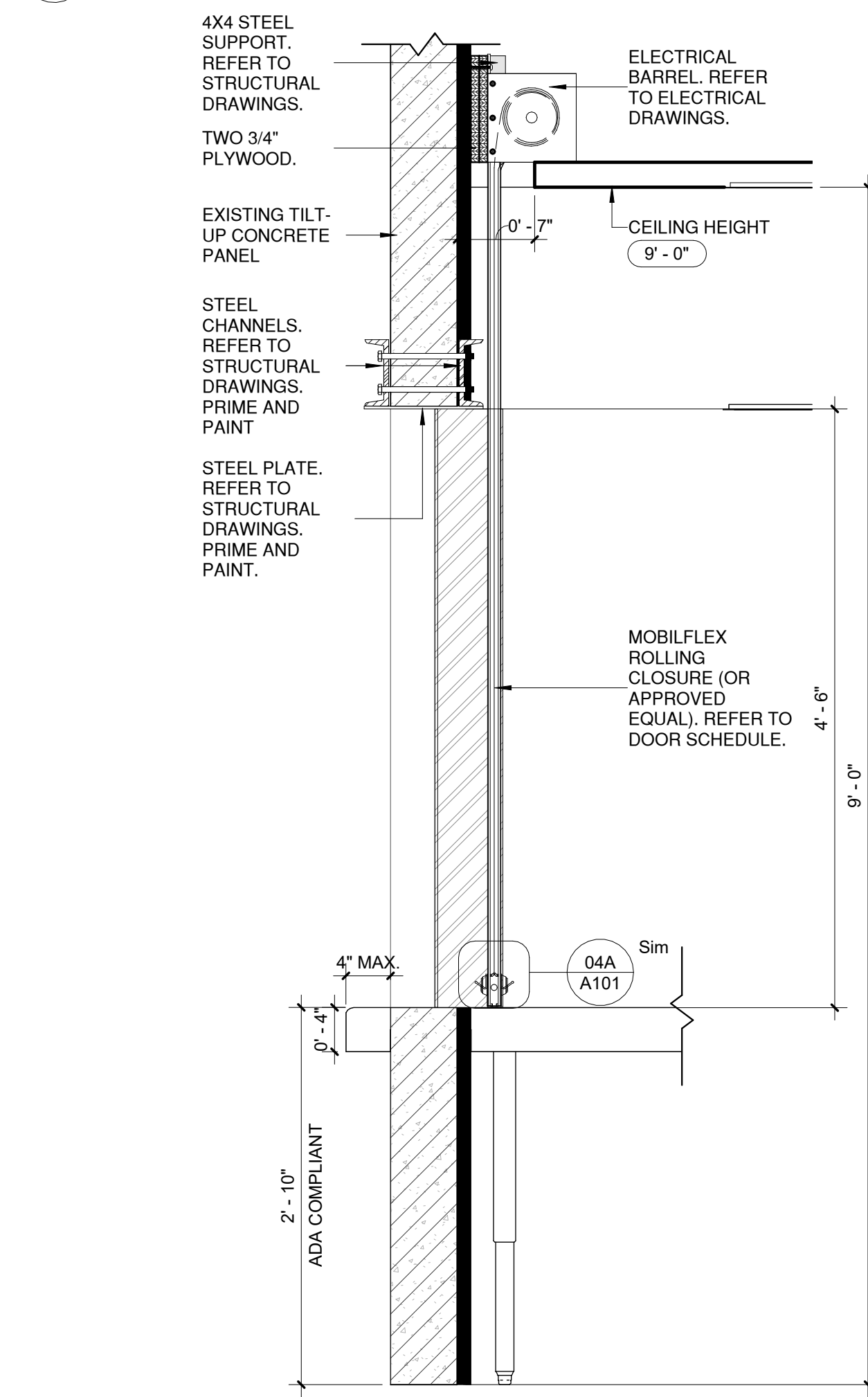
02 DOOR DETAIL - ROLLING CLOSURE - 9' - 0" OPENING  
1" = 1'-0"



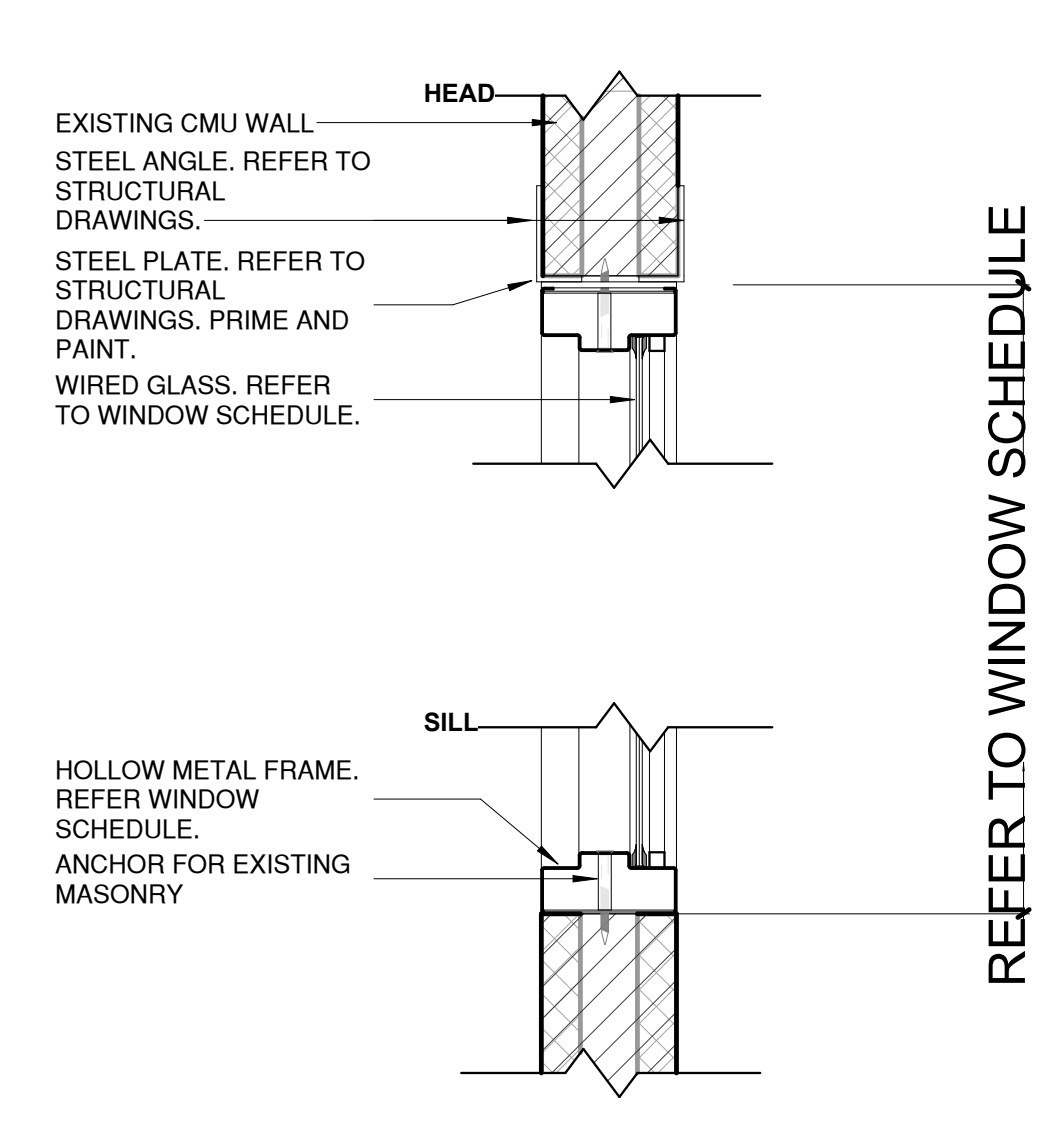
03 DOOR DETAIL - ROLLING CLOSURE ON COUNTER  
1" = 1'-0"



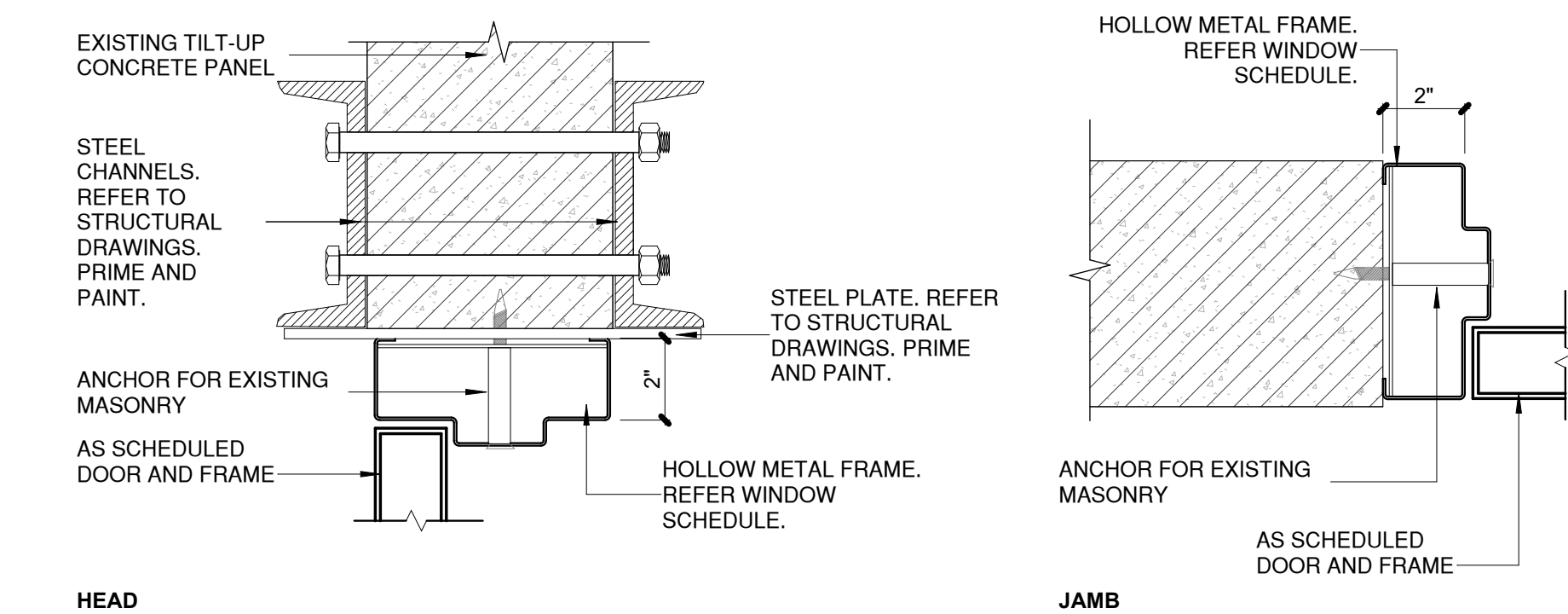
04A DOOR DETAIL - ROLLING CLOSURE - JAMB  
1 1/2" = 1'-0"



04B DOOR DETAIL - ROLLING CLOSURE - LOCK  
1 1/2" = 1'-0"



05 WINDOW DETAIL - HOLLOW METAL FRAME  
1 1/2" = 1'-0"



06 DOOR DETAIL - HOLLOW METAL FRAME  
3" = 1'-0"



Countryman & Co.  
Architecture

108 SOUTH STANTON, THIRD FLOOR, EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: PJ  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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TORNILLO INDEPENDENT SCHOOL DISTRICT  
GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

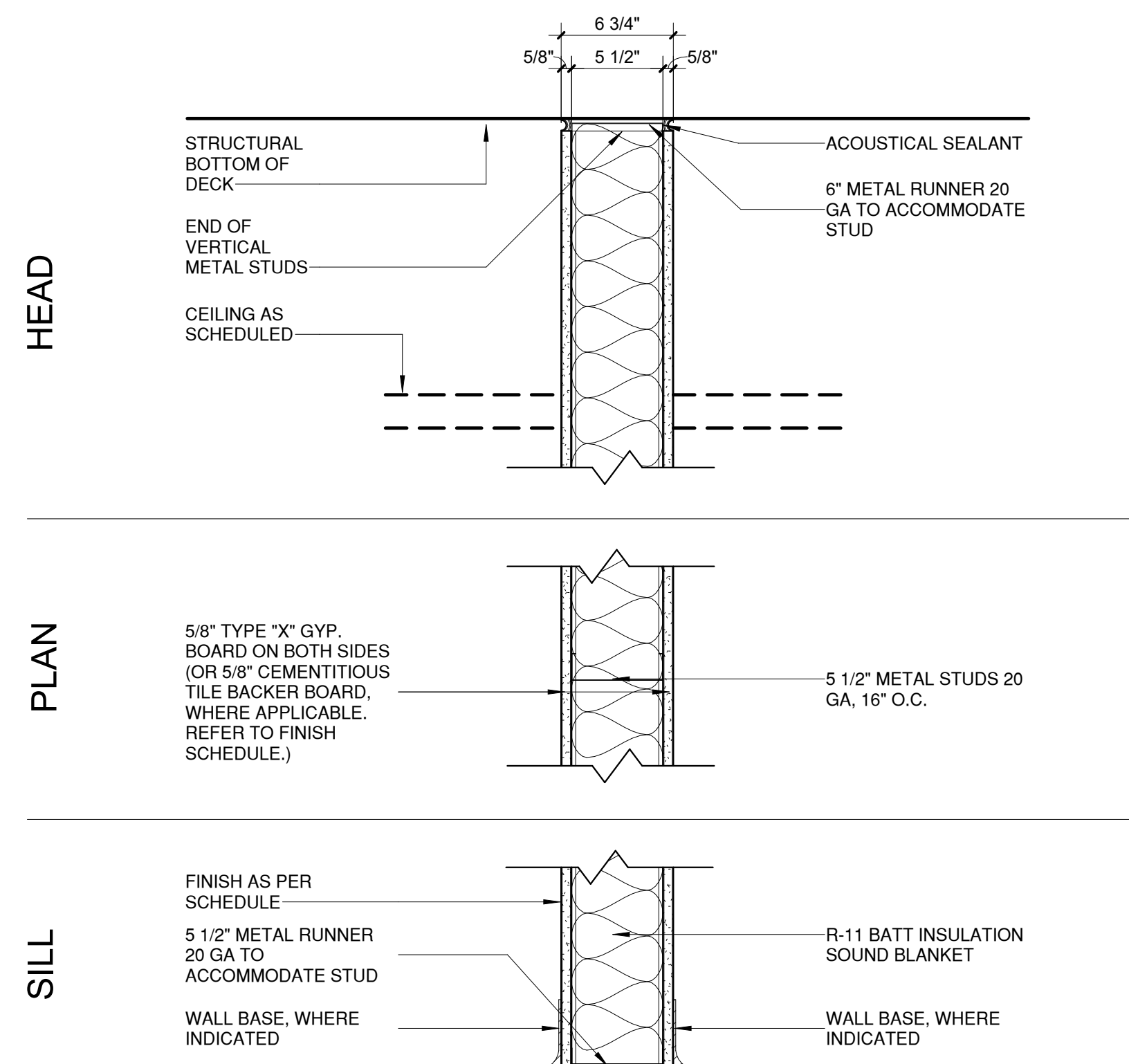
DOOR & WINDOW DETAILS

CONSTRUCTION  
DOCUMENTS

A101



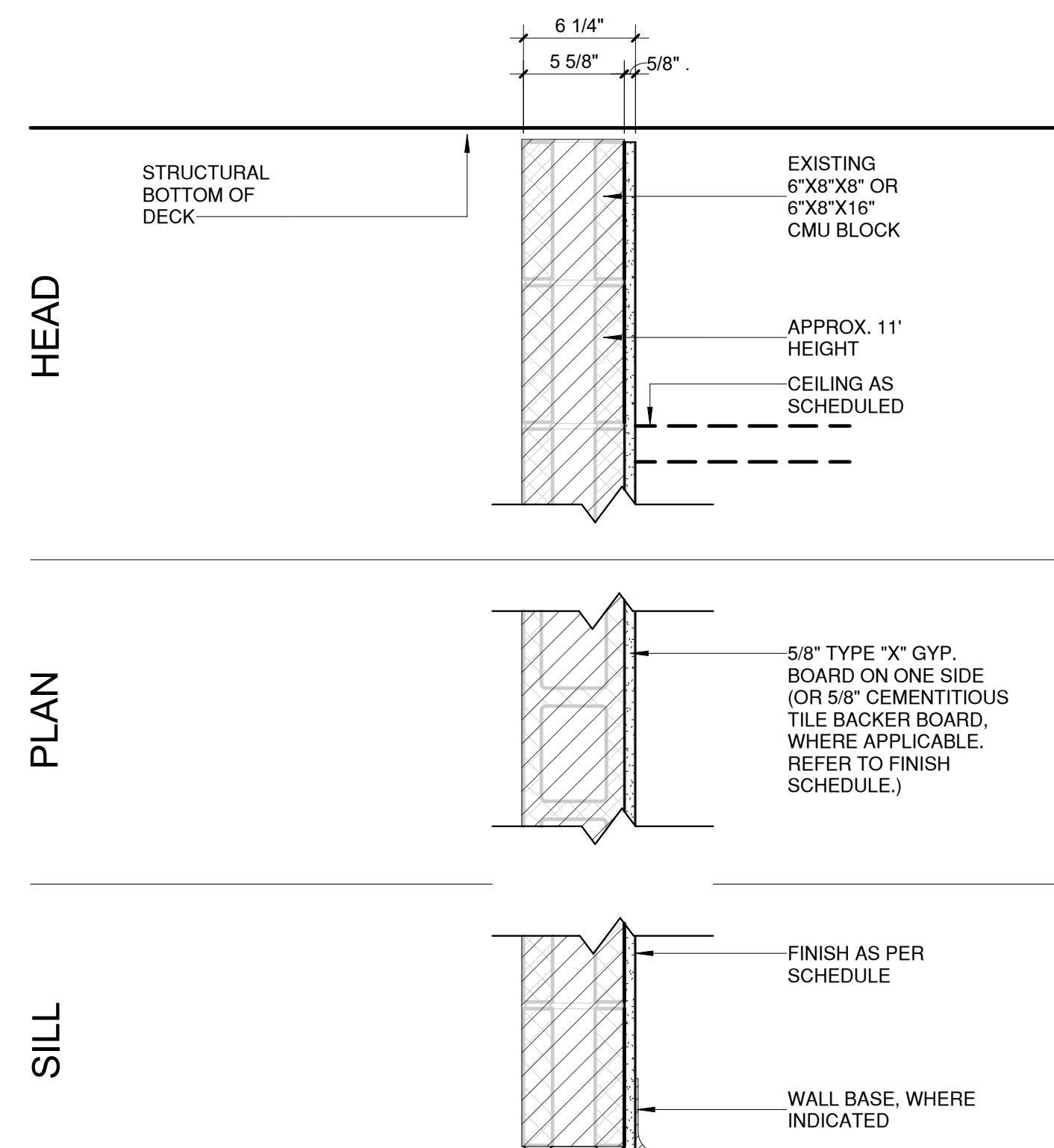
## NEW INTERIOR PARTITION WALL



NOTE: ALL EXPOSED GYPSUM BOARD WALLS & CEILING TO BE FINISHED TO LEVEL 4 PLASTER, ADJOINING AREAS FINISHED TO MATCH.

ALL GYPSUM WALL ON THE INTERIOR OF THIS BUILDING SHALL BE PATCHED, FINISHED TO A LEVEL 4 PLASTER FINISH, PRIMED AND PAINTED WITH NOT LESS THAN TWO COATS OF PAINT.

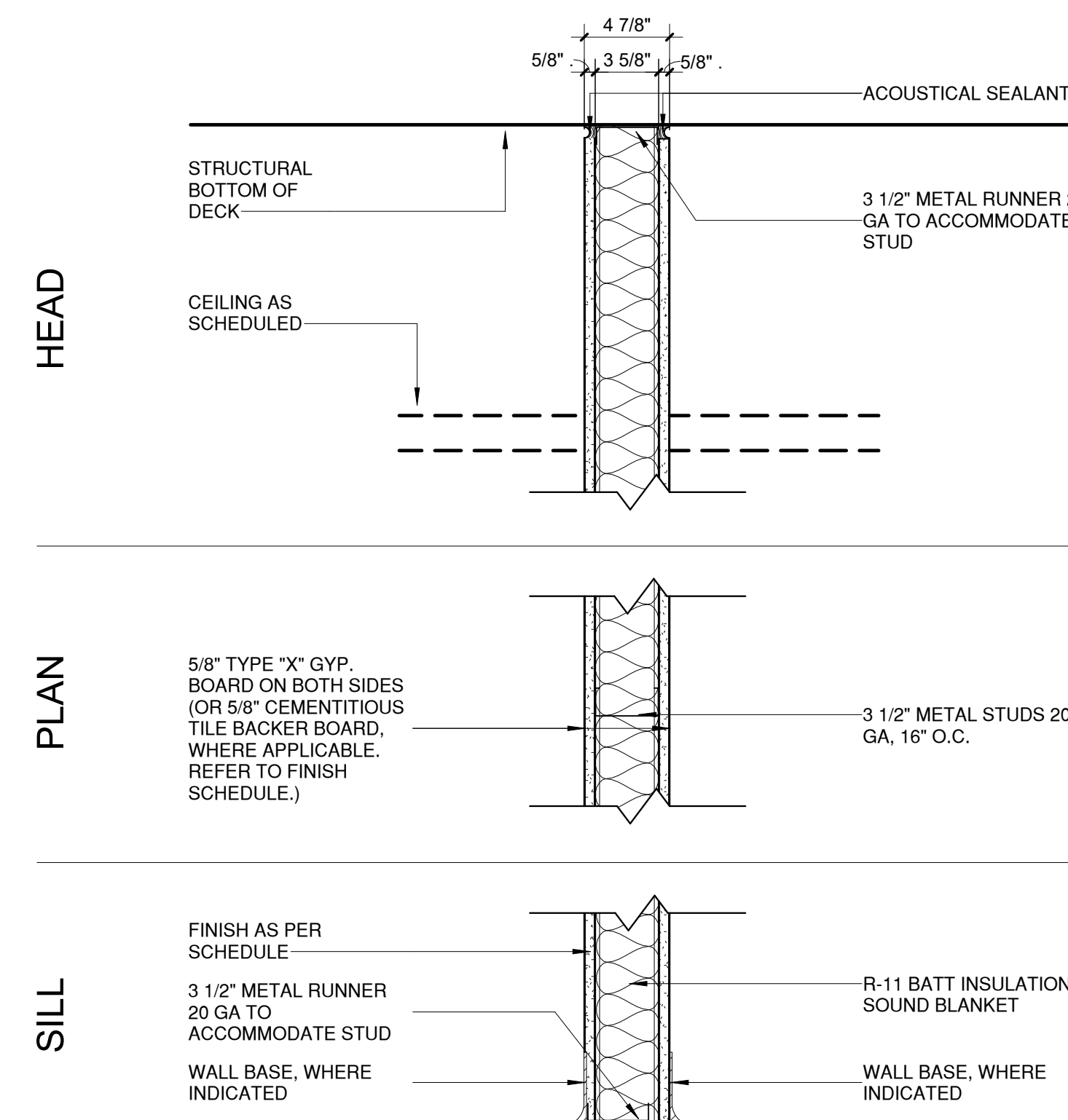
## NEW INTERIOR PARTITION WALL



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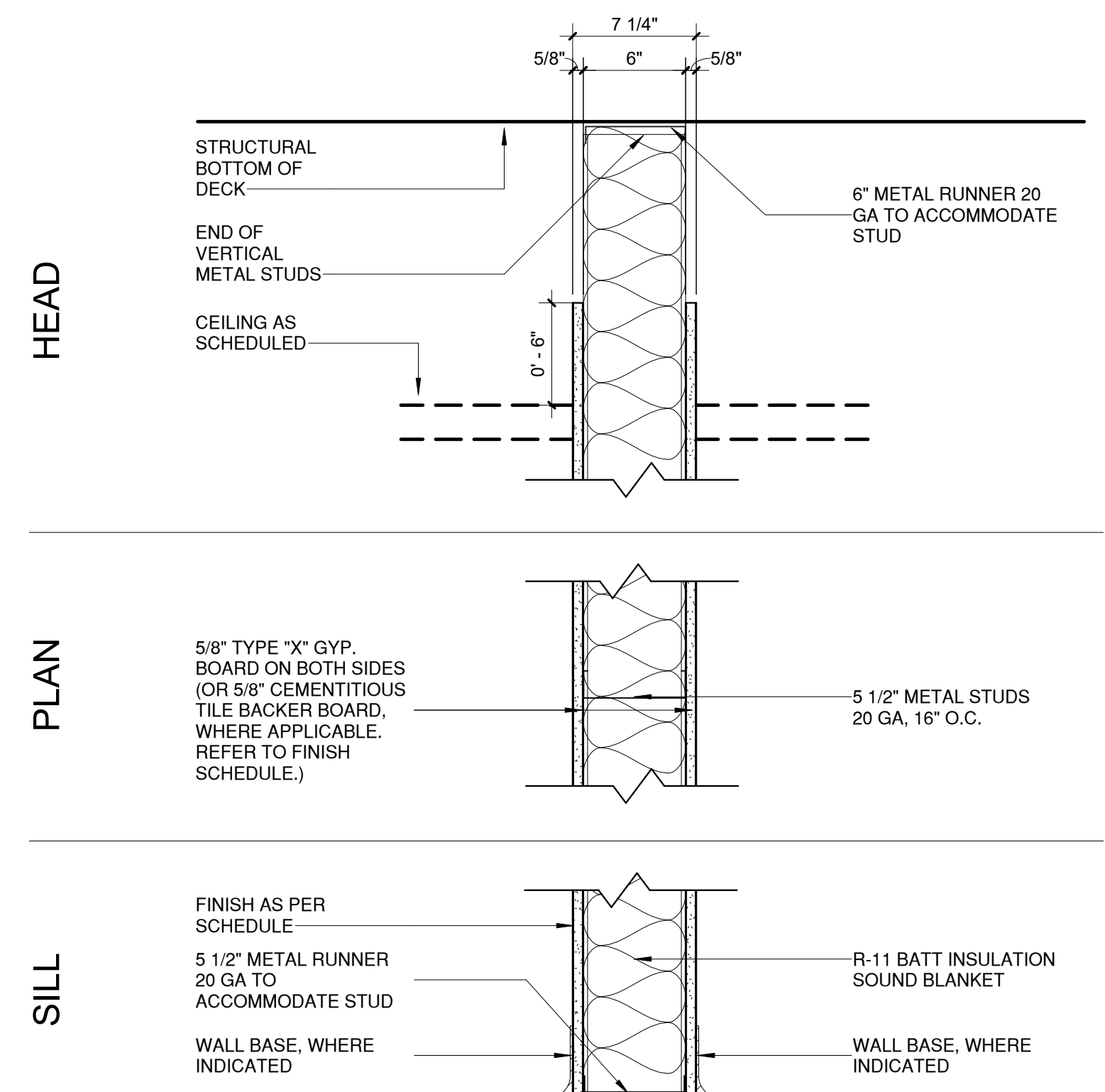
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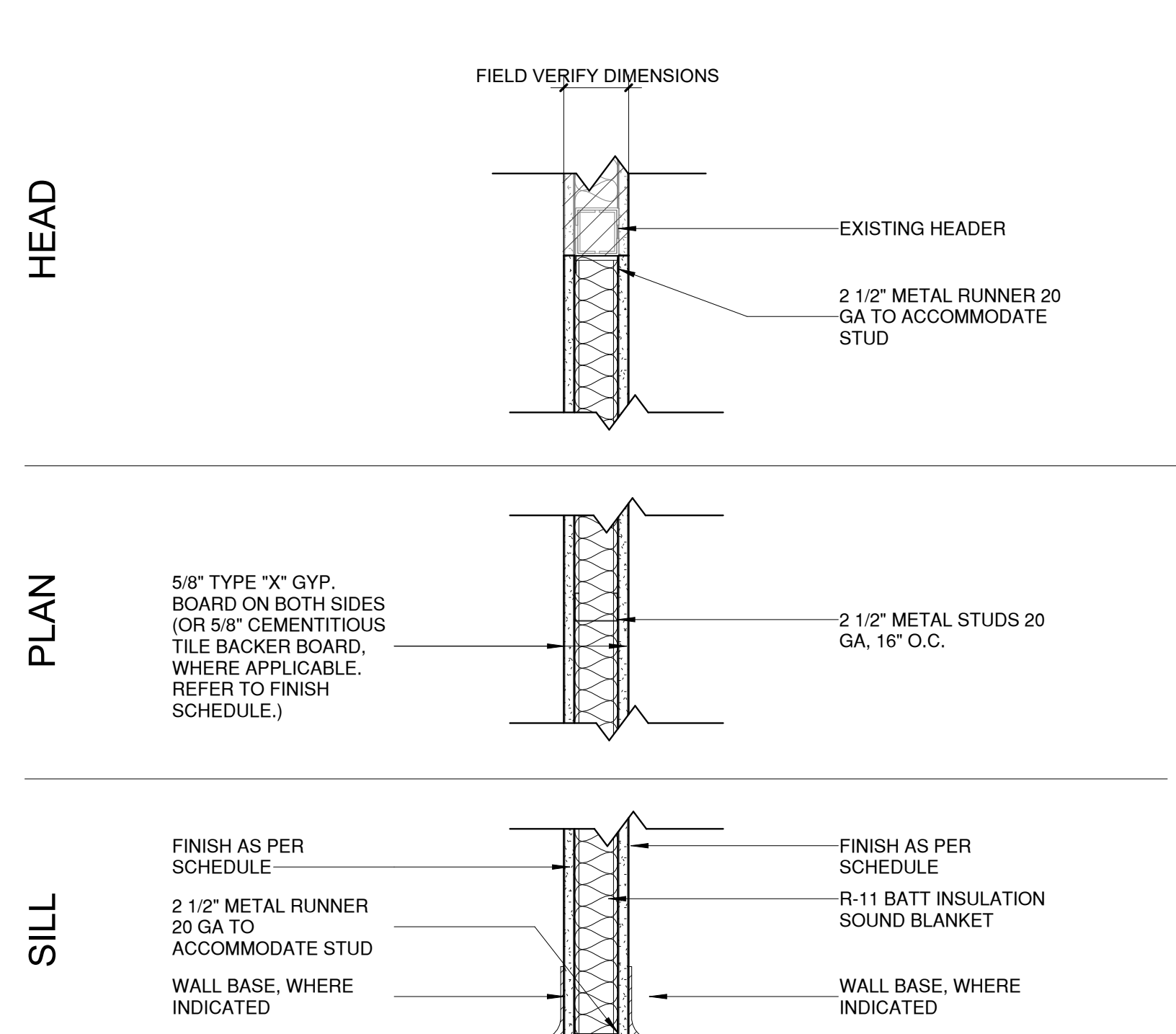
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## NEW INTERIOR PARTITION - DOOR AND WINDOW FILL

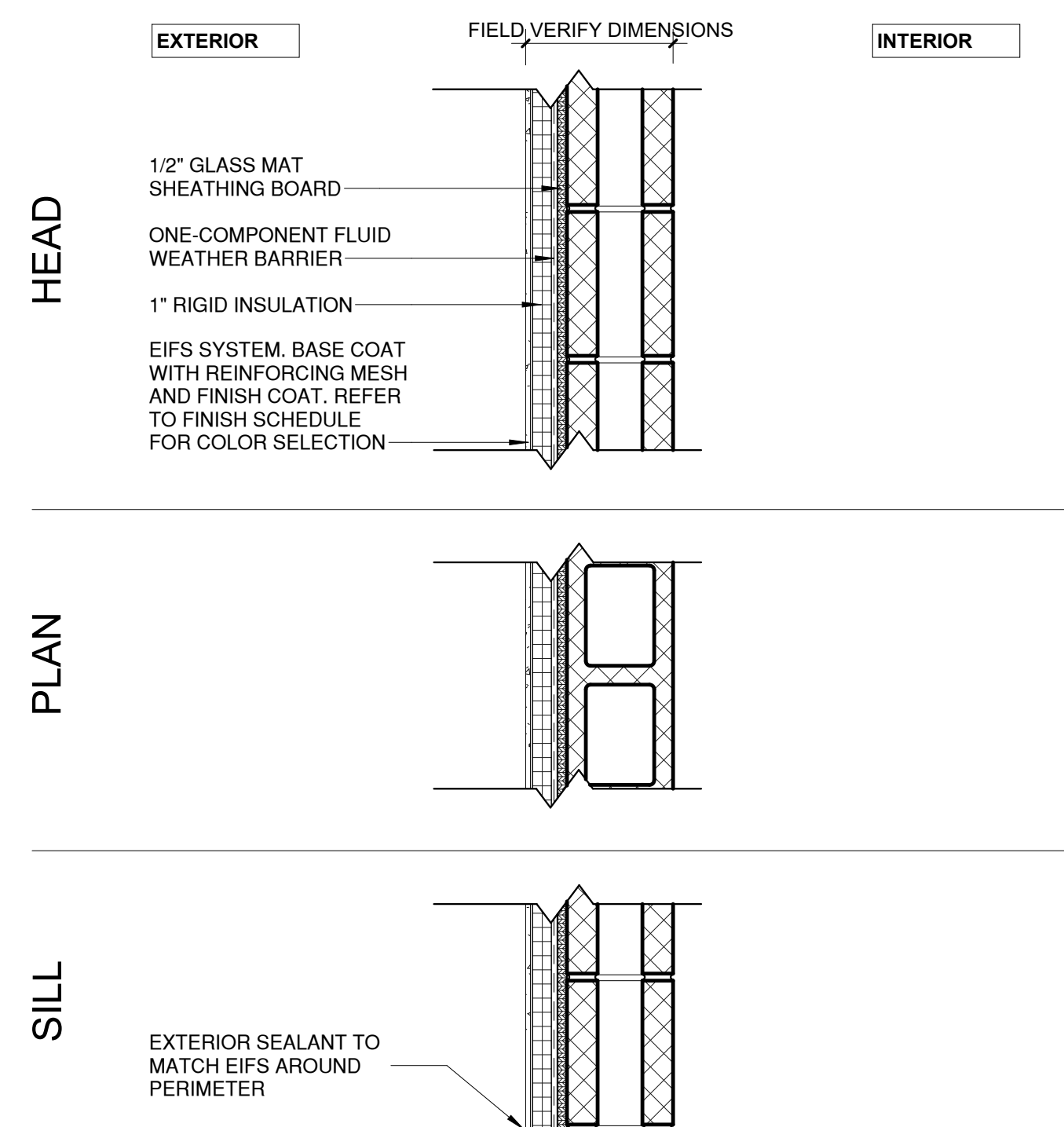


NOTE: ALL EXPOSED GYPSUM BOARD WALLS & CEILING TO BE FINISHED TO LEVEL 4 PLASTER, ADJOINING AREAS FINISHED TO MATCH.

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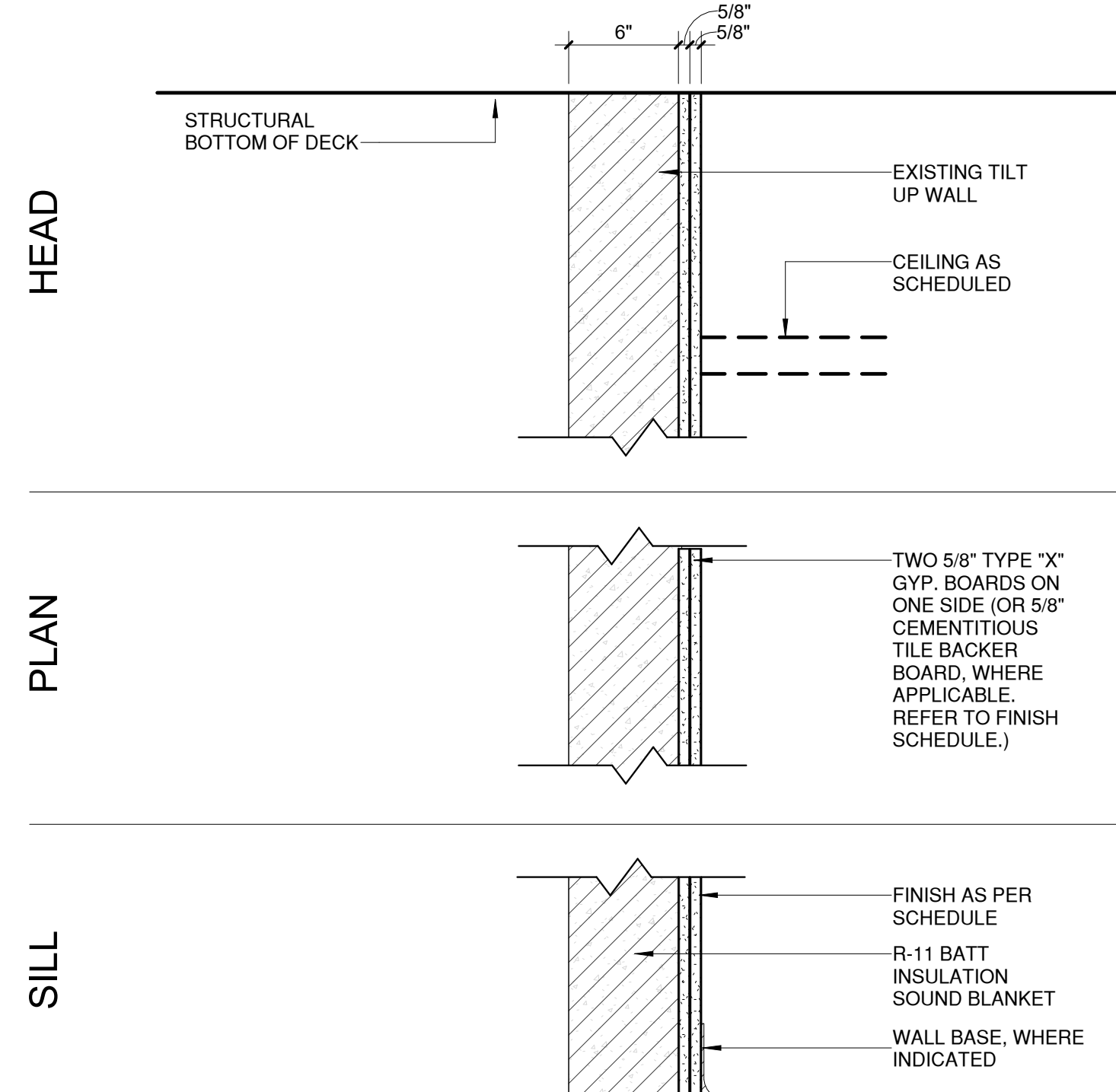
NOTE: WIDTH CAN BE ADJUSTED IN THE FIELD TO THE DEPTH OF THE EXITING WALLS.

### NEW EXTERIOR WALL - DOOR FILL



NOTE: WIDTH CAN BE ADJUSTED IN THE FIELD TO THE DEPTH OF THE EXISTING WALLS

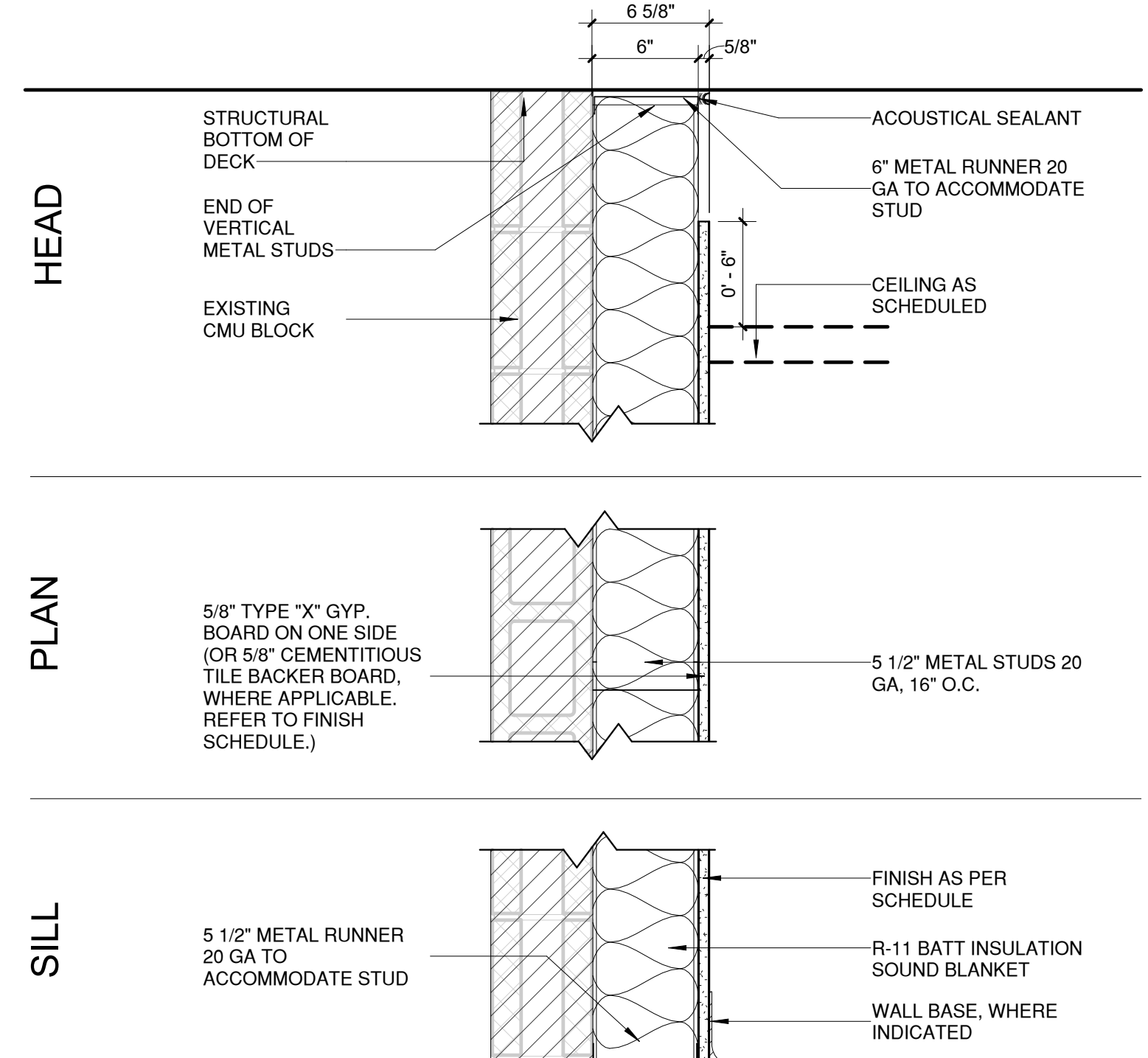
## INTERIOR PARTITION WALL



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## NEW INTERIOR PARTITION WALL



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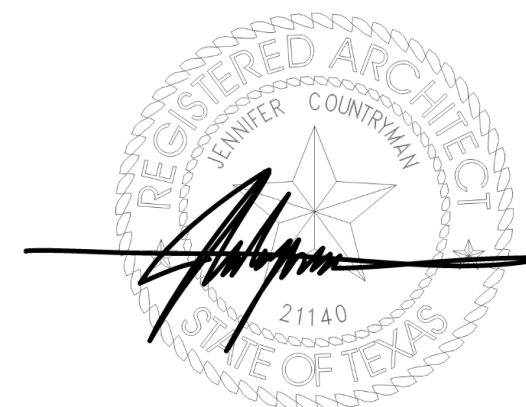
DRAWN BY: AL  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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# TORNILLO INDEPENDENT SCHOOL DISTRICT GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

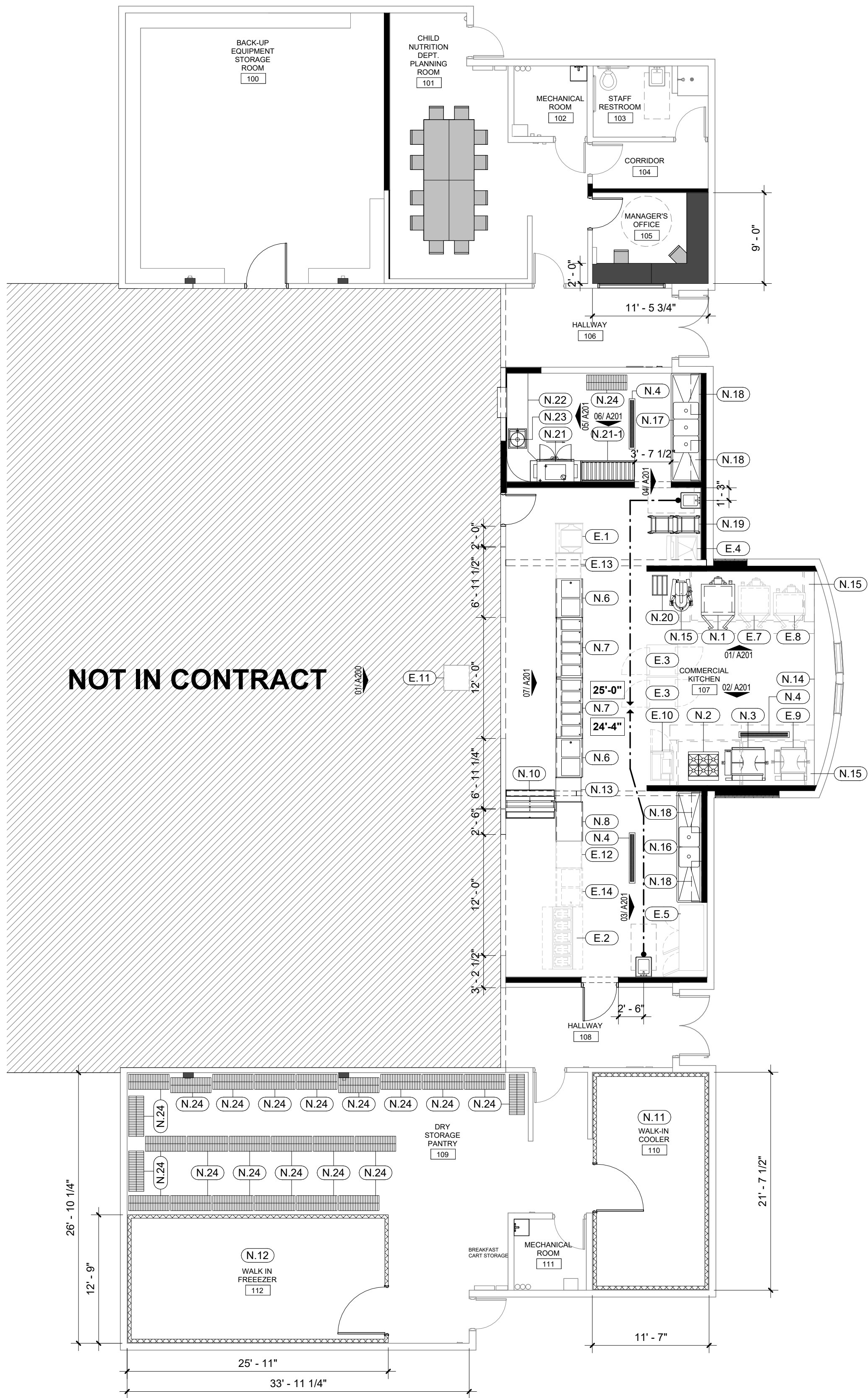
SHEET TITLE:

## WALL TYPES

CONSTRUCTION  
DOCUMENTS

# A102





NEW EQUIPMENT SCHEDULE							
NO.	QTY.	SYMBOL	IMAGE	SIZE	DESCRIPTION	MANUFACTURER   MODEL NO.	PROVIDER   INSTALLER
ELECTRIFIED AND   OR PLUMBED EQUIPMENT							
0				9	)#5 %108'6+10 18'0	87.%#0 ^ 8%'&	190'4 ^ )%
0				9	56#0&#4& 18'0 \$740'45 2412#0'	87.%#0 ^ ^5Ä"\$2	190'4 ^ )%
0				9	)#5 6+.6+0) 5-+...'6 \$4#-+940)0 ^ \$2/Ä )# 2#0		190'4 ^ )%
0					(.114 6417)* 4'('4 61'0)+0'1'4		)% ^ )%
0					'1:#756 *11& 4'('4 61'0)+0'1'4		)% ^ )%
0				9	5'48+0) %1706'4 %1.& (187%- ^ 6%/Ä 2)Ä0"		190'4 ^ )%
0				9	5'48+0) %1706'4 *16 (11&7- ^ 6''(Ä 2)		190'4 ^ )%
0				9	5'48+0) %1706'4 76+..+6;&7- ^ 656Ä 2)		190'4 ^ )%
0				9	%#5* 4')+56'4 56#0&	&7- ^ 6%5Ä 2)	190'4 ^ )%
0				9	/+.- %11.1'4	\$'8'4)' #+4 ^ 56( ''*Ä Ä9Ä90'4 ^ )%	
0					9#.-Ä+0 %11.1'4		)% ^ )%
0					9#.-Ä+0 (4'<'4		)% ^ )%
0				9	6#\$. '		190'4 ^ )%
0					%7561/ 56#+0.'55 56''. 6#\$. '		)% ^ )%
0				9	37#465 /+:'4	81..46* ^ /+:	190'4 ^ )%
0					%7561/ %1/2#46/'06 5+0%7561/ '37+2/'06 9+6' 56#+0.'55 56''. &4#+0 \$1#4&5		)% ^ )%
0					%7561/ %1/2#46/'06 5+0%7561/ '37+2/'06		)% ^ )%
0					9#.. /1706' & 5''.(	#&8#0%' 6#\$815 Ä Ä	190'4 ^ )%
0				9	2#0 #.7/+07/ 2#0 4#%- %#56'45 -6+	-ä#0)'425 64#&+0) +0% ^ 2#04#%-	190'4 ^ 190'4
0				9	#.7/+07/ &700#)' 4#%-	.1\$#. +0&7564+#+: ^	190'4 ^ 190'4
0					4#%- %108':14 &+5*9#5 /#%"+0' 4Ä.	4#]#/'2+10 ^ &4 8 2'	)% ^ )%
0					41..1'4 %108':14 6#\$. '	%*#/'2+10#%6" 6#\$. '	
0					%7561/ 56#+0.'55 56''. 6#561/ '37+2/'06		)% ^ )%
0				9	5#4#2 %1...'614	5#.8#.,14 ^ 5'	190'4 ^ )%
0					'21:: 5''.( 9+6* .1%+0) 9''''.5		190'4 ^ 190'4

EXISTING EQUIPMENT SCHEDULE							
NO.	QTY.	SYMBOL	IMAGE	SIZE	DESCRIPTION	MANUFACTURER   MODEL NO.	PROVIDER   INSTALLER
ELECTRIFIED AND   OR PLUMBED EQUIPMENT							
				9	4' (4+)'4#614 5'.(Ä5'48+%'1#5+5 ^ %1 4 %#5' /+.- %11.1'4		'1:+56+0) ^ )%
					\$+ / 9#4/'4	&7- ^ '2 Ä	'1:+56+0) ^ )%
				9	41..Ä6*47 51.+& &17\$.' &1145 ''#6'& %#\$+0'6	647' ^ 6) *46Ä 5Ä 5	'1:+56+0) ^ )%
				9	+%' 5614#)' \$+0 +%' /#-'4	5%165/#0 ^ \$ 2	'1:+56+0) ^ )%
					51.+& &114 4'(4+)'4#614 647' ^ 6Ä"		'1:+56+0) ^ )%
							'1:+56+0)
				9	)#5 %108'6+10 18'0	+/'2'4+.#.	'1:+56+0) ^ )%
				9	)#5 %108'6+10 18'0	\$..1&)'66 ^ &()Ä	'1:+56+0) ^ )%
				9	\$4#+5+0) 2#0	)41'0 '%.+25' ^ /Ä )	'1:+56+0) ^ )%
				9	''#6'& *1.&+0) %#\$+0'6	/%%#.. ^ Ä*2	'1:+56+0) ^ )%
				9	4')+56'4 56#0&		
				9	6#\$. '		
				9	6#\$. '		
				9	5'48+0) %1706'4 %1.& (187%- ^ 6%/Ä 2)Ä0"		'1:+56+0) ^ )%

LEGEND

EQUIPMENT  
REFER TO KITCHEN EQUIPMENT SCHEDULE

FURNITURE  
OWNER PROVIDED | OWNER INSTALLED

MILLWORK  
CONTRACTOR PROVIDED | CONTRACTOR INSTALLED

01 KITCHEN EQUIPMENT PLAN  
1/8" = 1'-0"

Countryman & Co.  
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: PJ | AL  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

REVISION SCHEDULE:

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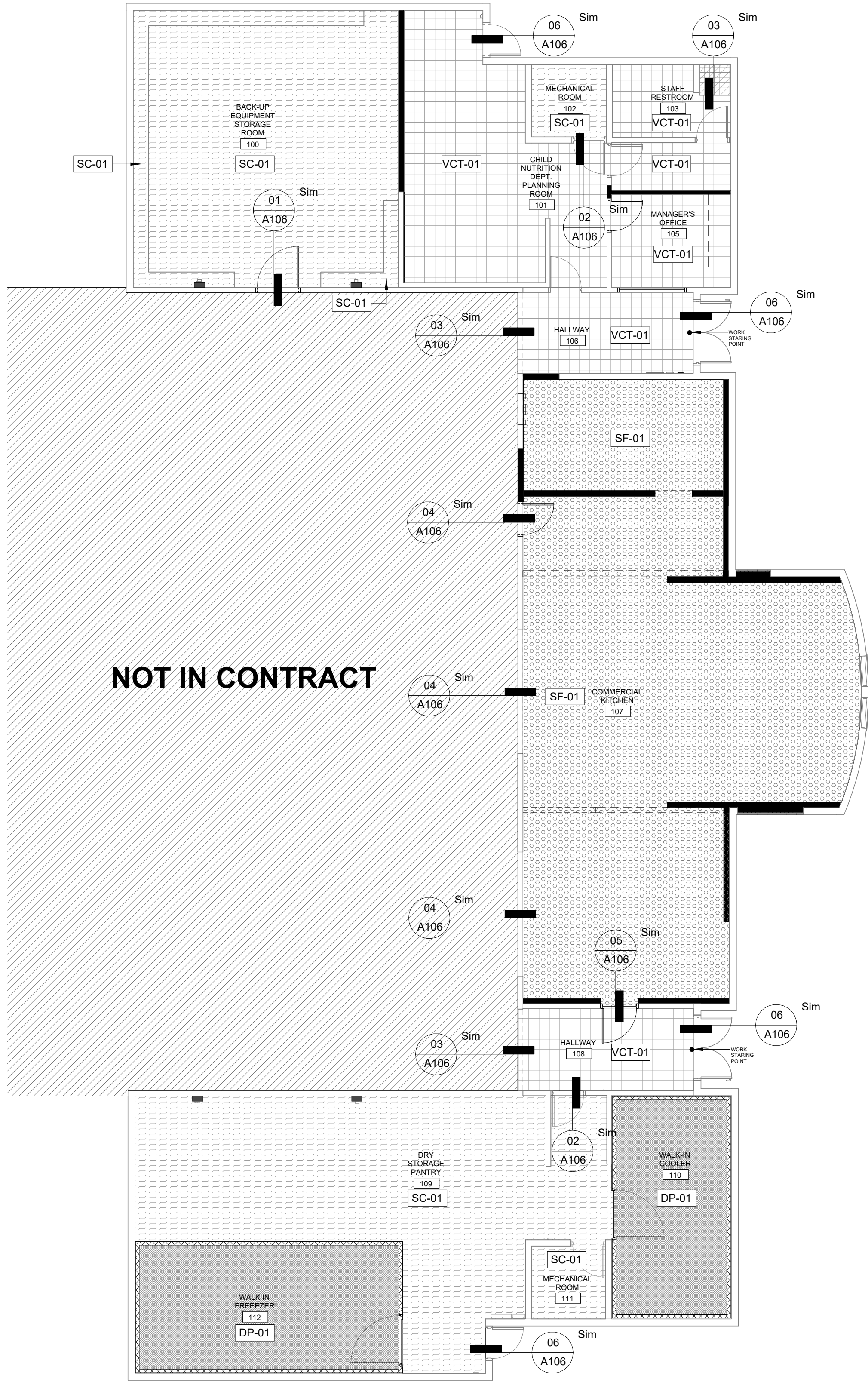
TORNILLO INDEPENDENT SCHOOL DISTRICT  
GYM TO CAFETERIA CONVERSION  
300 OIL MILL DR. | TORNILLO, TX 79853  
SHEET TITLE:  
KITCHEN EQUIPMENT PLAN AND SCHEDULE

CONSTRUCTION  
DOCUMENTS

A103







01 FLOOR FINISHES PLAN  
1/8" = 1'-0"

Countryman & Co.  
Architecture

108 SOUTH STANTON, THIRD FLOOR, EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: AL | PJ  
PROJECT NO: 2022-16  
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## FINISH SCHEDULE

ITEM	DESCRIPTION	MAKE   MODEL	DIMENSIONS	VENDOR	IMAGE	LEGEND	NOTES
FLOOR FINISHES							
SF-01	SAFETY FLOORING	MFR: ALTRO FLOORING COLLECTION:ALTRO CLASSIC 25 COLOR: QUARRY RED X2560R11	ROLLS: 6' - 7' x 49'   2m x 15m THICKNESS: 3.0mm   .12"	www.altrofloors.com			
	COVE BASE		4" OR 6" H				
	ALTRO CAP STRIP C4	TRANSITION DETAIL, RIGID H SHAPED VINYL TRANSITION CAP WITH 8mm SHELVE TO BE USED BETWEEN FLASH COVED SHEET FLOORING AND FIBERGLASS REINFORCED PANELS	0.31" W x 1.75" H	www.altrofloors.com			
	ALTRO COVER FORMER	COVER FORMER (COVE STICKS)	0.75" W x 0.75" H	www.altrofloors.com			
VCT-01	VINYL COMPOSITION TILE	MANUFACTURER: ARMSTRONG COLLECTION: PREMIUM EXCELOON CROWN TEXTURE COLOR: SMOKEY BROWN 5C868	12" x 12" x 1/8"				
SC-01	POLISHED AND SEALED CONCRETE		0" x 0"				
DP-01	ALUMINUM DIAMOND PLATE, BY COLD STORAGE UNIT SUPPLIER.			BY MANUFACTURER			
	EXISTING TILE TO REMAIN.						
FINISH SCHEDULE NOTES							
1. ALL FINISHES TO BE APPROVED BY OWNER.							
2. ALL FINISHES TO BE INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS, TO INCLUDE FLOOR PREP.							



CONSTRUCTION  
DOCUMENTS

## TORNILLO INDEPENDENT SCHOOL DISTRICT GYM TO CAFETERIA CONVERSION

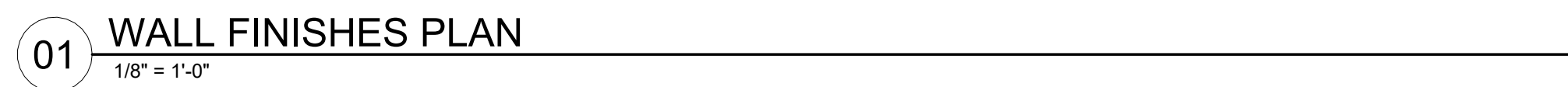
300 OIL MILL DR. | TORNILLO, TX 79853

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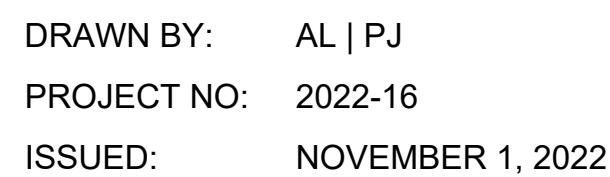
## FLOOR FINISHES

A104





108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



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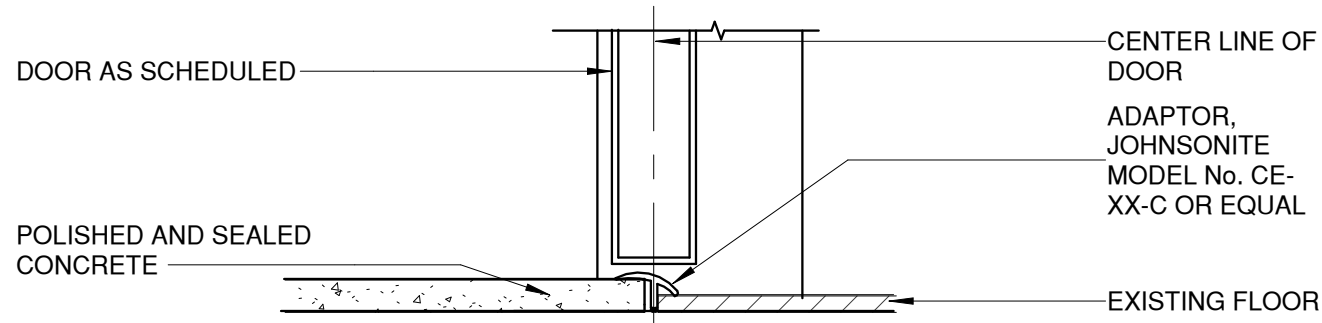
300 OIL MILL DR. | TORNILLO, TX 79853

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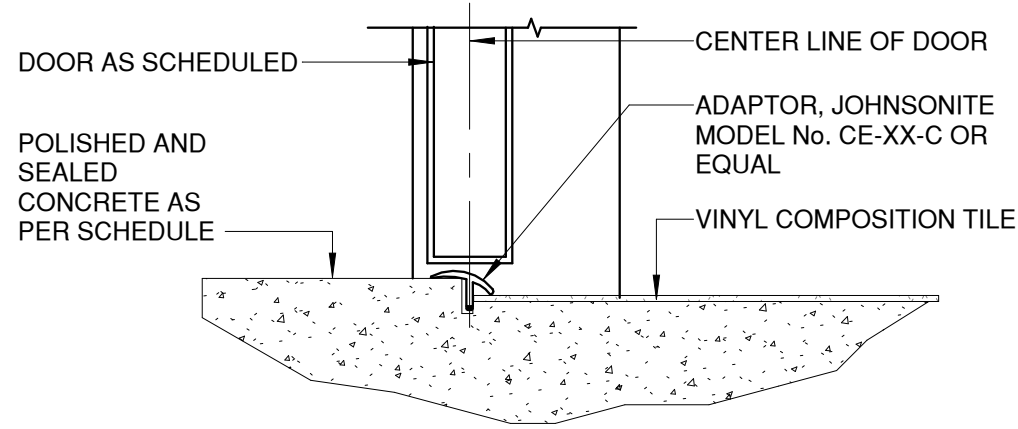
CONSTRUCTION  
DOCUMENTS

A105

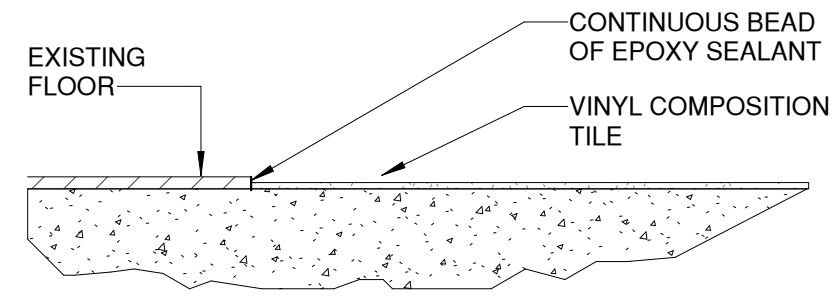




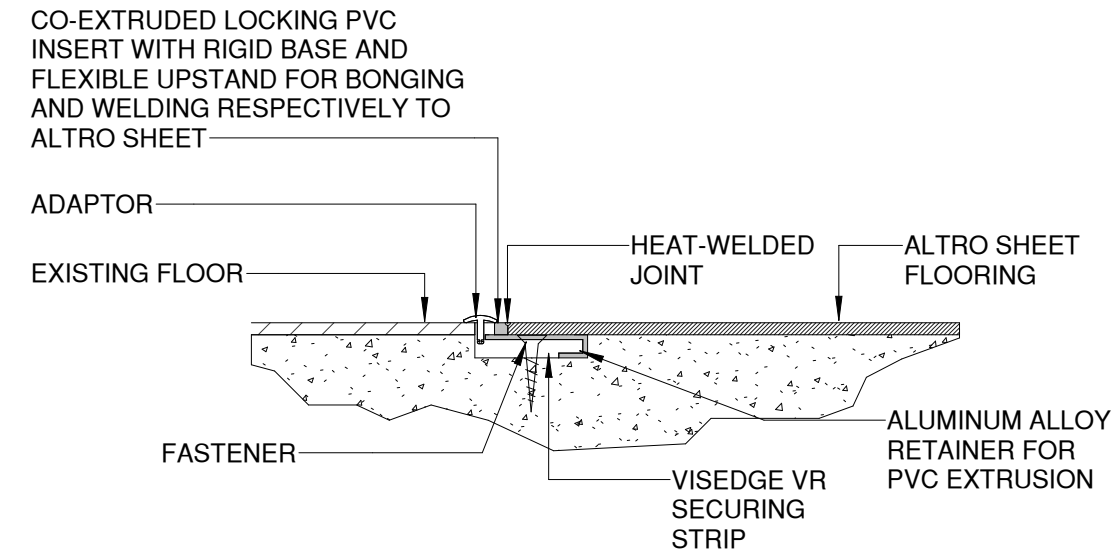
01 FLOOR TRANSITION DETAIL - EXISITING TO SC-01  
3" = 1'-0"



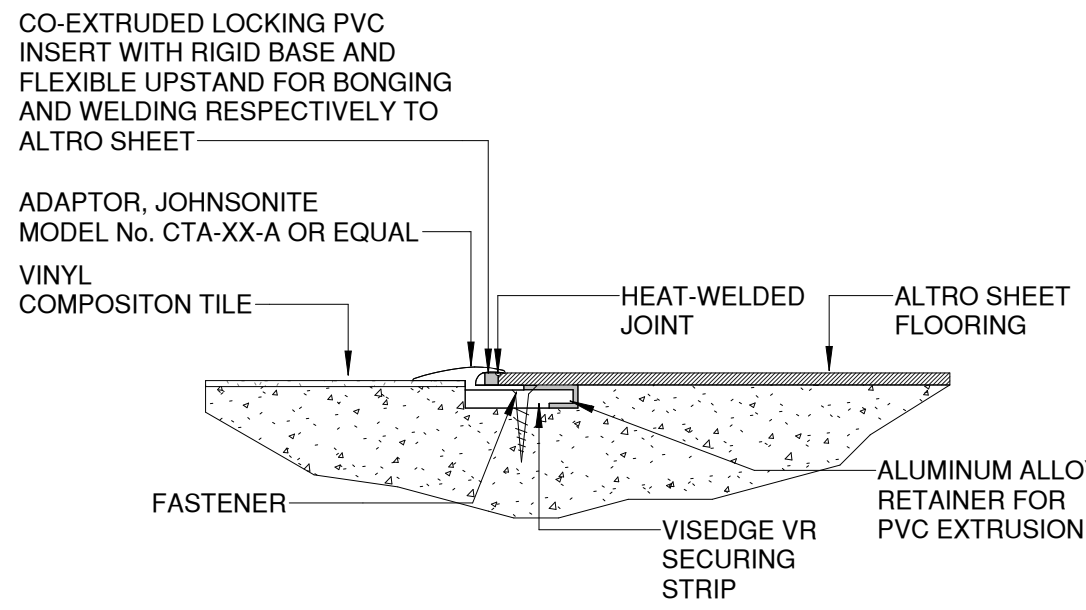
02 FLOOR TRANSITION - SC-01 TO VCT  
3" = 1'-0"



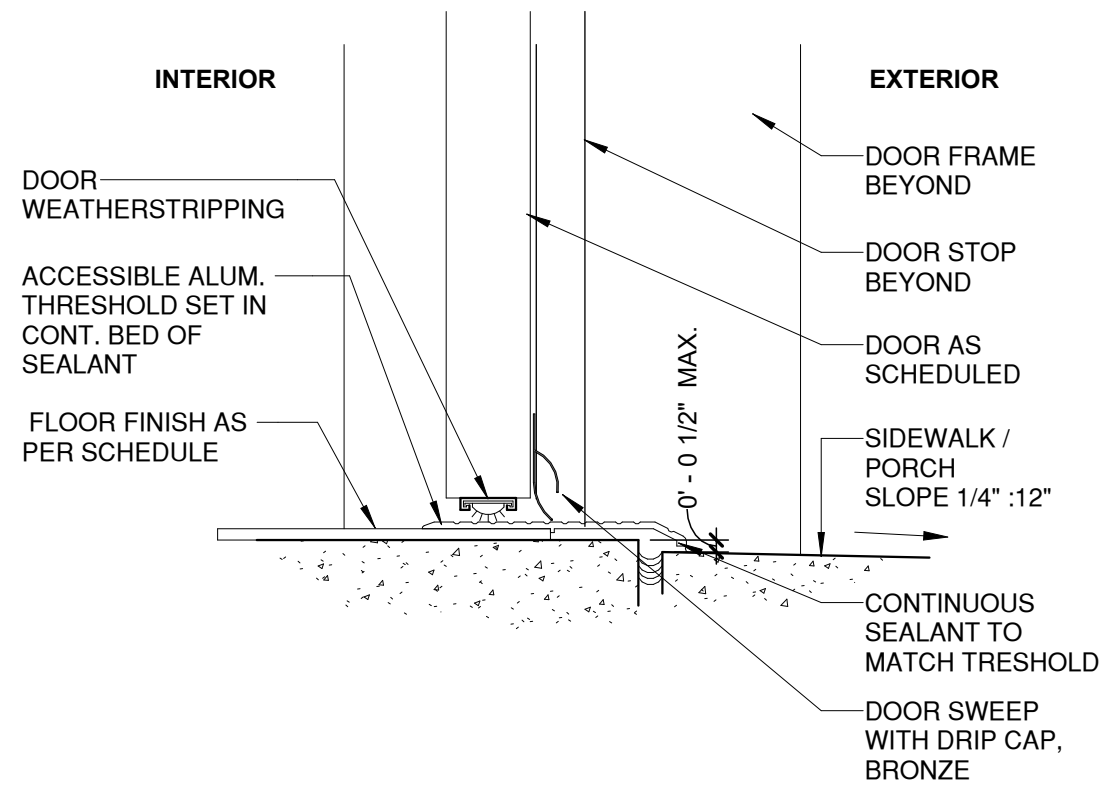
03 FLOOR TRANSITION - EXISITING TO VCT  
3" = 1'-0"



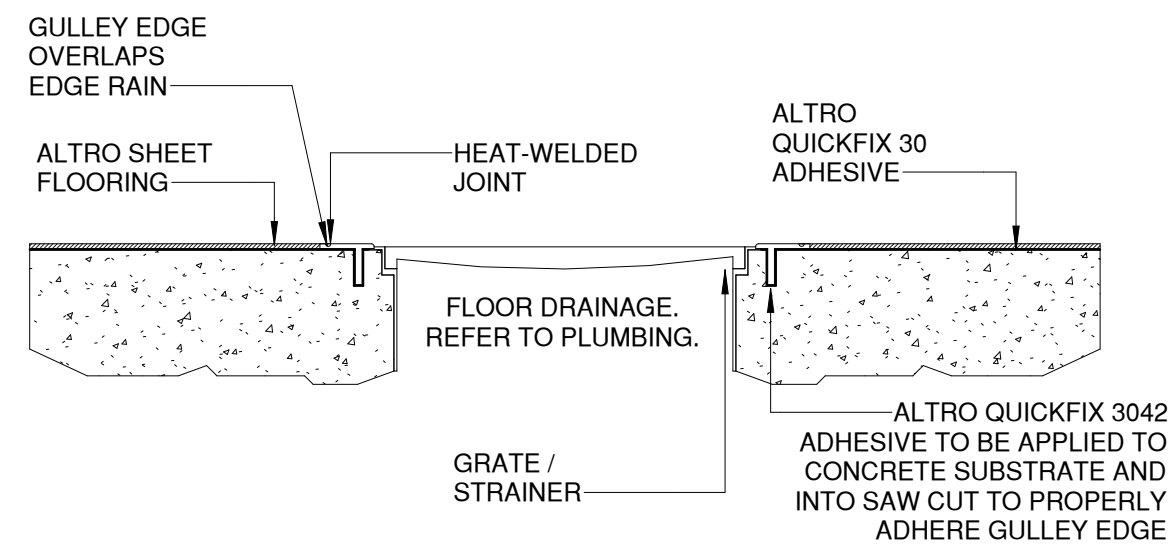
04 FLOOR TRANSITION - EXISTING TO SAFETY FLOORING  
3" = 1'-0"



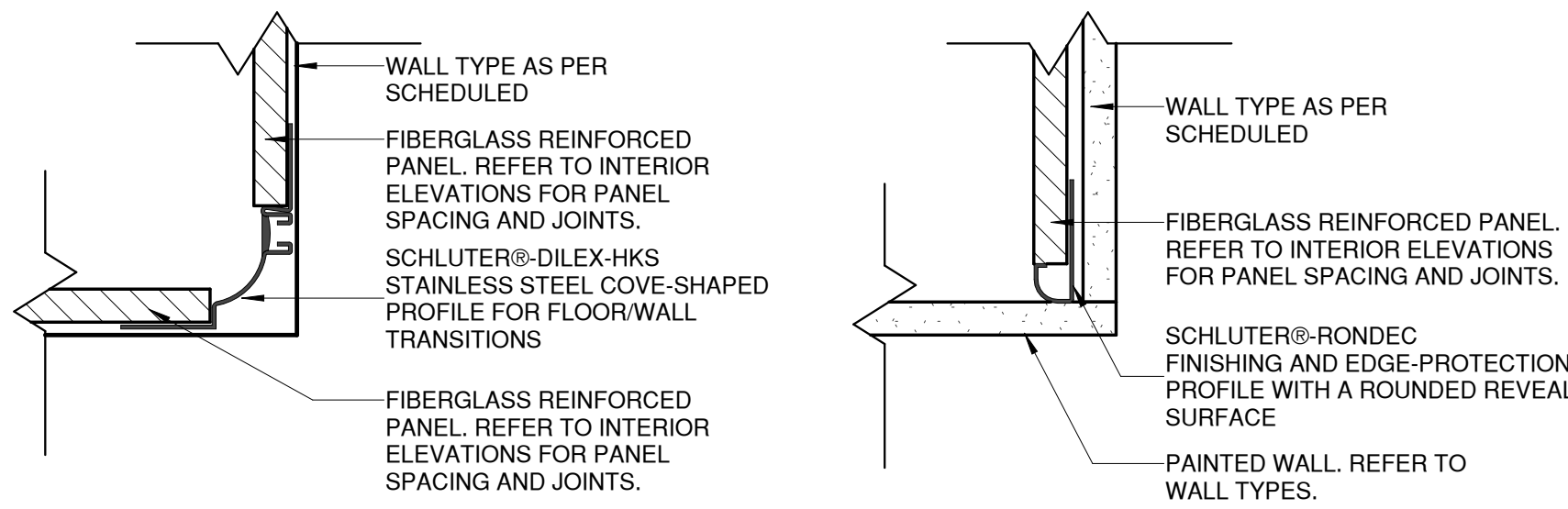
05 FLOOR TRANSITION - VCT TO SAFETY FLOORING  
3" = 1'-0"



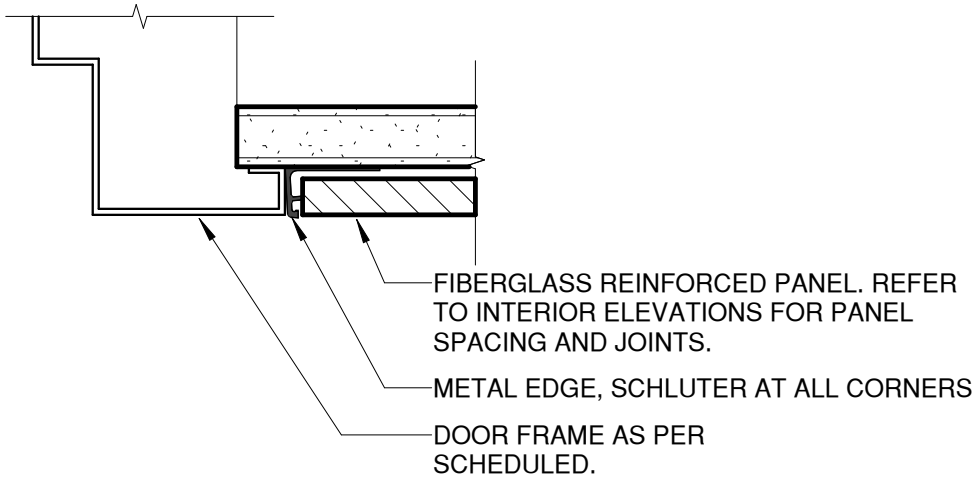
06 THRESHOLD DETAIL  
3" = 1'-0"



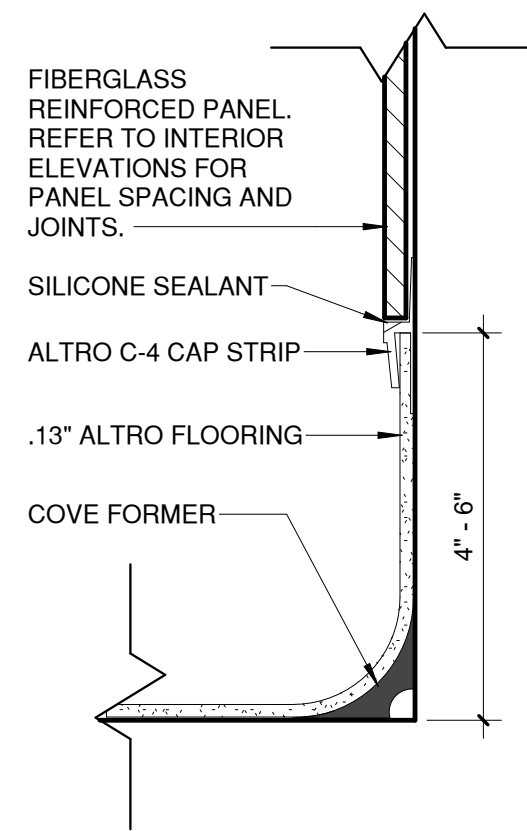
07 ALTRO FLOORING DETAIL - DRAINAGE  
3" = 1'-0"



08 FIBERGLASS REINFORCED PANEL - CORNERS DETAIL  
6" = 1'-0"



09 FIBERGLASS REINFORCED PANEL - DOOR DETAIL  
6" = 1'-0"



10 COVE BASE DETAIL  
6" = 1'-0"

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Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: AL | PJ  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

REVISION SCHEDULE:

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TORNILLO INDEPENDENT SCHOOL DISTRICT  
GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

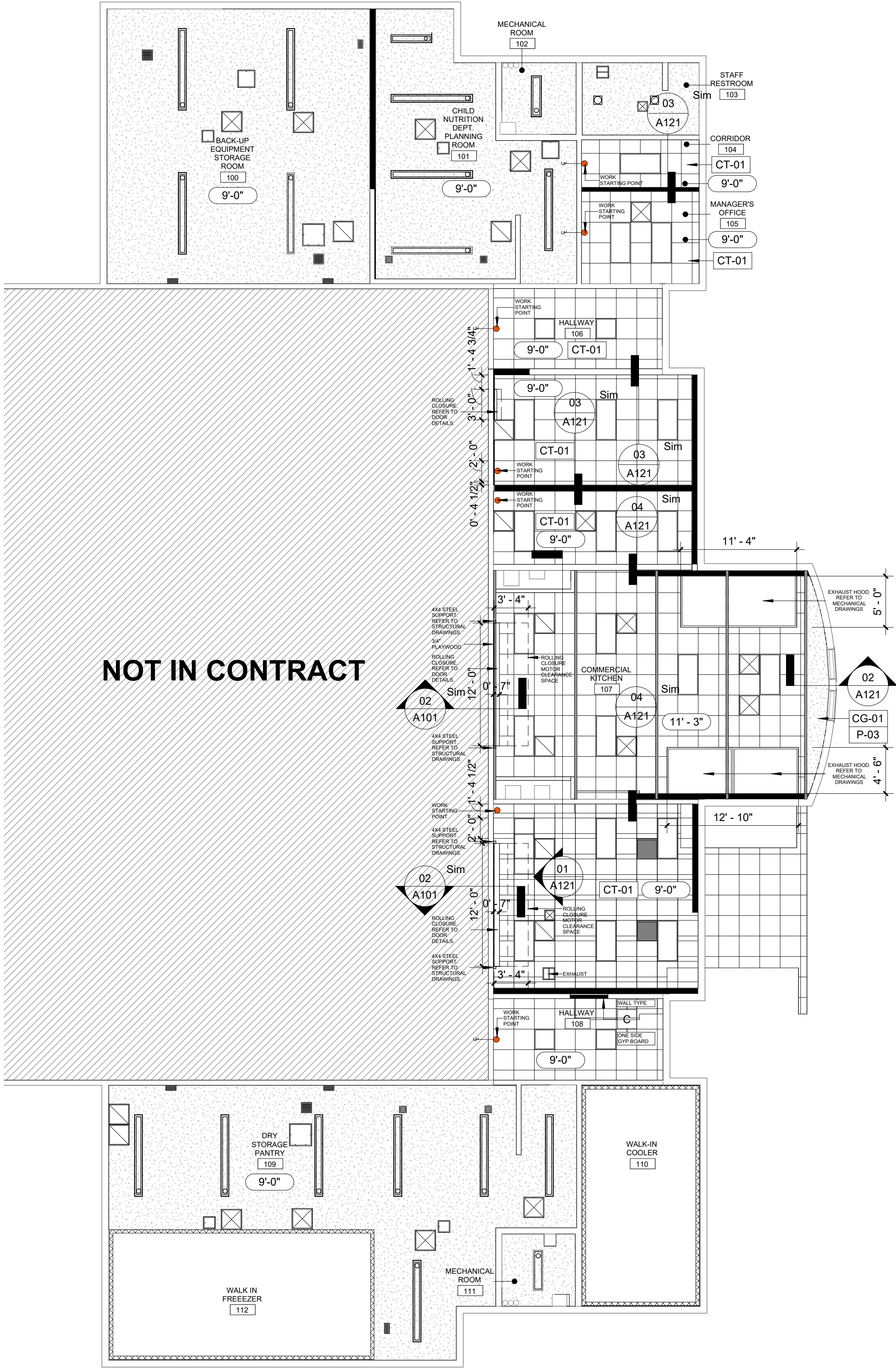
FINISHES DETAILS



CONSTRUCTION  
DOCUMENTS

A106





01 REFLECTED CEILING PLAN  
1/8" = 1'-0"

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108 SOUTH STANTON, THIRD FLOOR, EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: AL | PJ  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

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## REFLECTED CEILING FINISH SCHEDULE

ITEM	DESCRIPTION	MAKE   MODEL	DIMENSIONS	VENDOR	LEGEND	NOTES
CEILING FINISHES						
CT-01	LAY-IN CEILING	MANUFACTURER: ARMSTRONG MODEL: KITCHEN ZONE	2' x 2'	----		
CG-01	GYP.BD. CEILING	TEXTURE: SMOOTH   LEVEL 4 FINISH: PRIMED AND PAINTED				
P-03	CEILING PAINT	MFR: SHERWIN WILLIAMS COLOR: GREEK VILLA SW 7551				

## LIGHT FIXTURES - REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION

	LAY-IN LED PANEL	LED	2' X 2'	----		
	LAY-IN LED PANEL	LED	2' X 4'	----		

## CEILING SUPPLIES - REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION

	SUPPLY AIR GRILL	----	----	----		
	RETURN AIR GRILL	----	----	----		
	EXHAUST FAN	----	----	----		
	ACCESS DOOR	----	----	----		
		----	----	----		
		----	----	----		
		----	----	----		
		----	----	----		

## CEILING NOTES

1. WORK SHALL FULLY COMPLY WITH GOVERNING CODES, ORDINANCES, RESTRICTIONS, AND NATIONAL ELECTRIC CODE. TAKE ALL NECESSARY SAFETY MEASURES AND COMPLY WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS FOR PUBLIC PROTECTION (BARRICADES, SIGNS, DUST BARRIERS, ETC).
2. GENERAL CONTRACTOR TO CONFIRM HEIGHTS AND COORDINATE WITH EXISTING CONDITIONS. NOTIFY OWNER AND ARCHITECT IF SPECIFIED HEIGHT CANNOT BE ACHIEVED
3. CEILING HEIGHTS ARE TO FINISHES SURFACE. GYPSUM BOARD OR CEILING TILE, AS APPLICABLE.
4. GYPSUM BOARD CEILINGS AND SOFFIT TO HAVE A SMOOTH FINISH UNLESS NOTED OTHERWISE.
5. PAINT HVAC GRILLES TO MATCH ADJACENT CEILING FINISH AND EXISTING TO REMAIN GRILLES.
6. GENERAL CONTRACTOR SHALL MAKE SURE NEW GRILLES OR ADJUSTED GRILLES LOCATIONS DO NOT INTERFERE WITH ANY OTHER CEILING FIXTURES. NOTIFY OWNER AND ARCHITECT IF SPECIFIED LOCATIONS CANNOT BE ACHIEVED .
7. ADJUST EXISTING GRILLES TO MATCH NEW LAY-IN CEILING GRID.
8. THE SUSPENDED TILE CEILING PANELS IN KITCHEN AREAS ARE WASHABLE.
9. REFERENCE MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION AND COORDINATION OF SYSTEMS NOT SHOWN ON THIS PLAN.



CONSTRUCTION  
DOCUMENTS

## TORNILLO INDEPENDENT SCHOOL DISTRICT GYM TO CAFETERIA CONVERSION

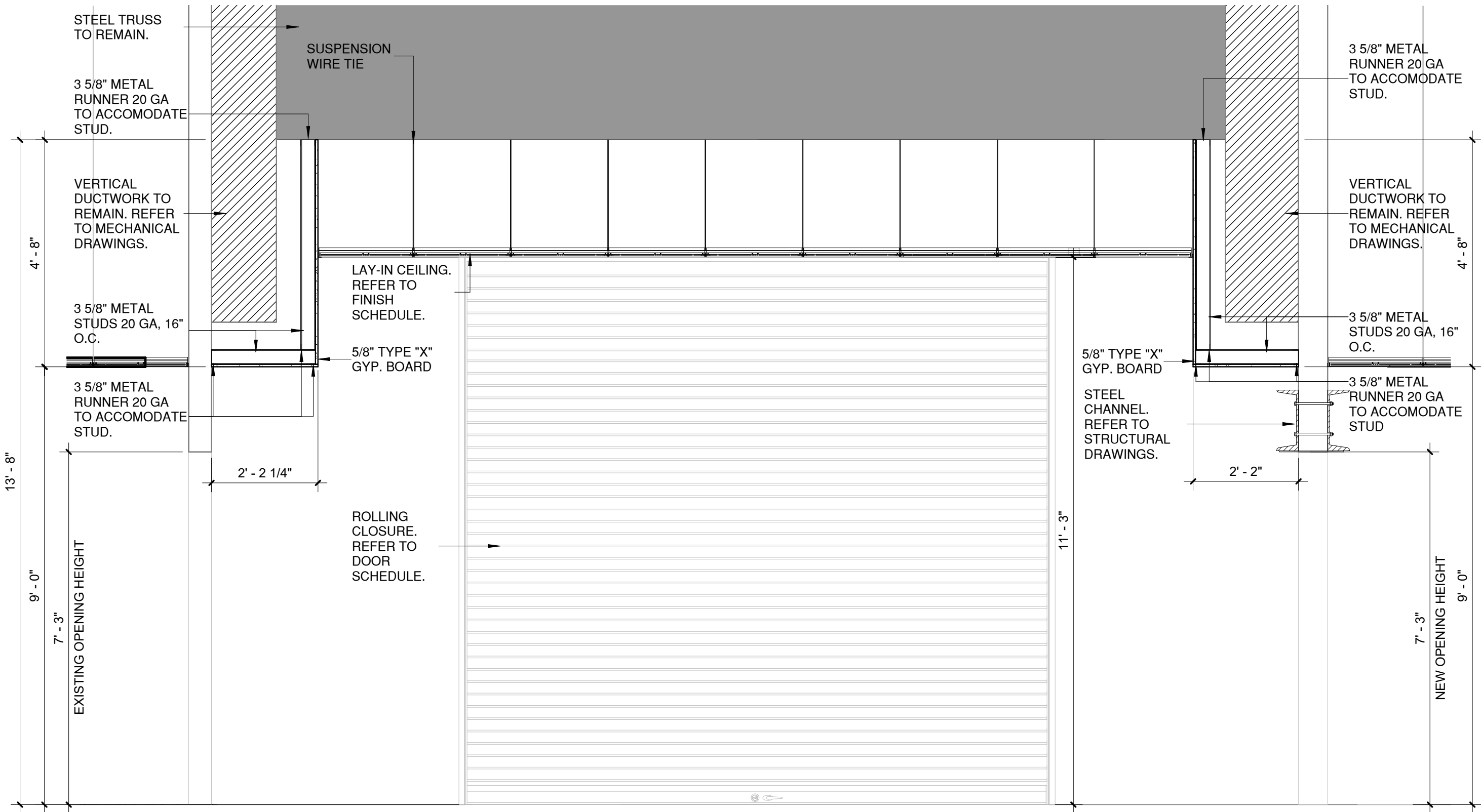
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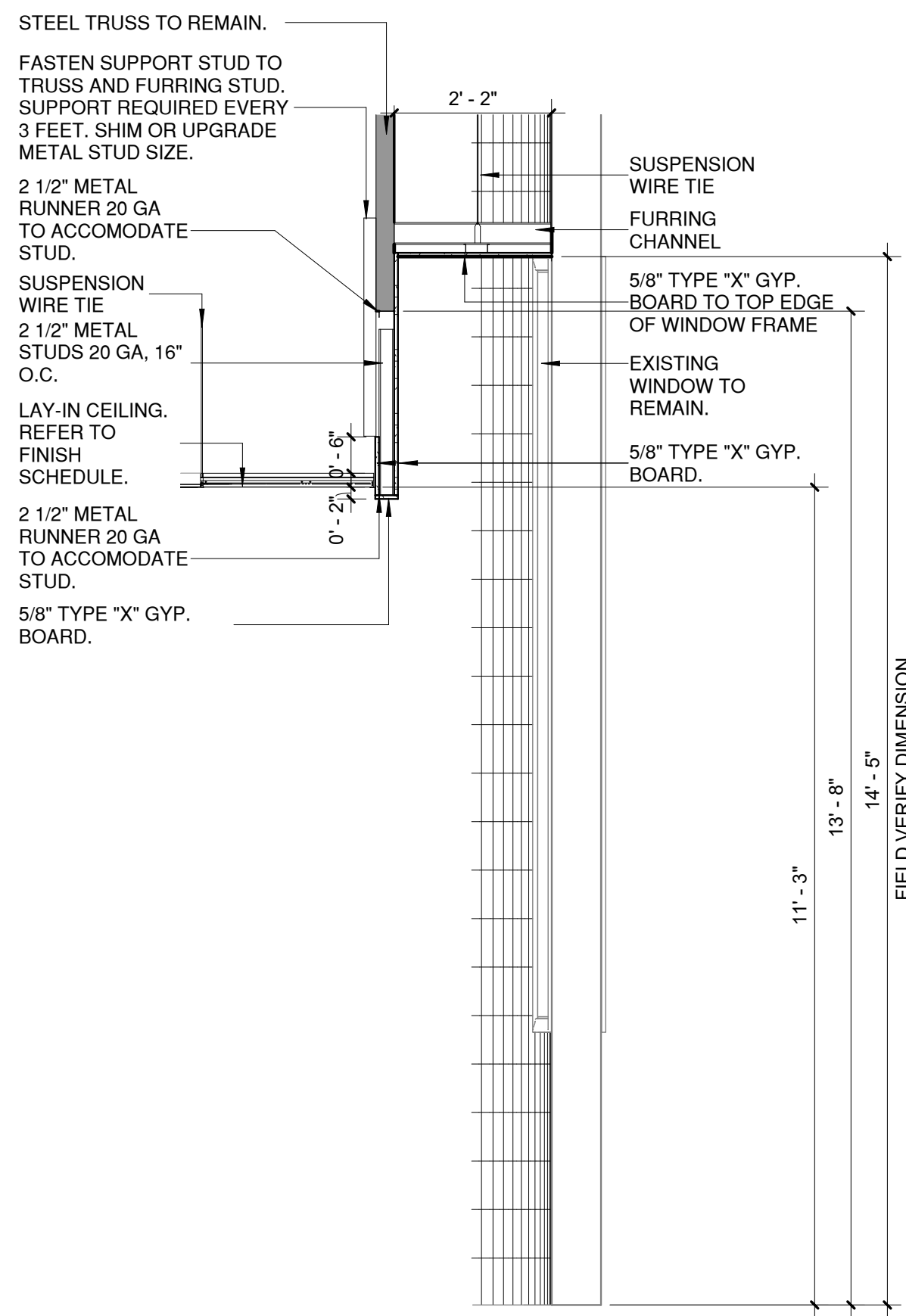
## REFLECTED CEILING PLAN

A120

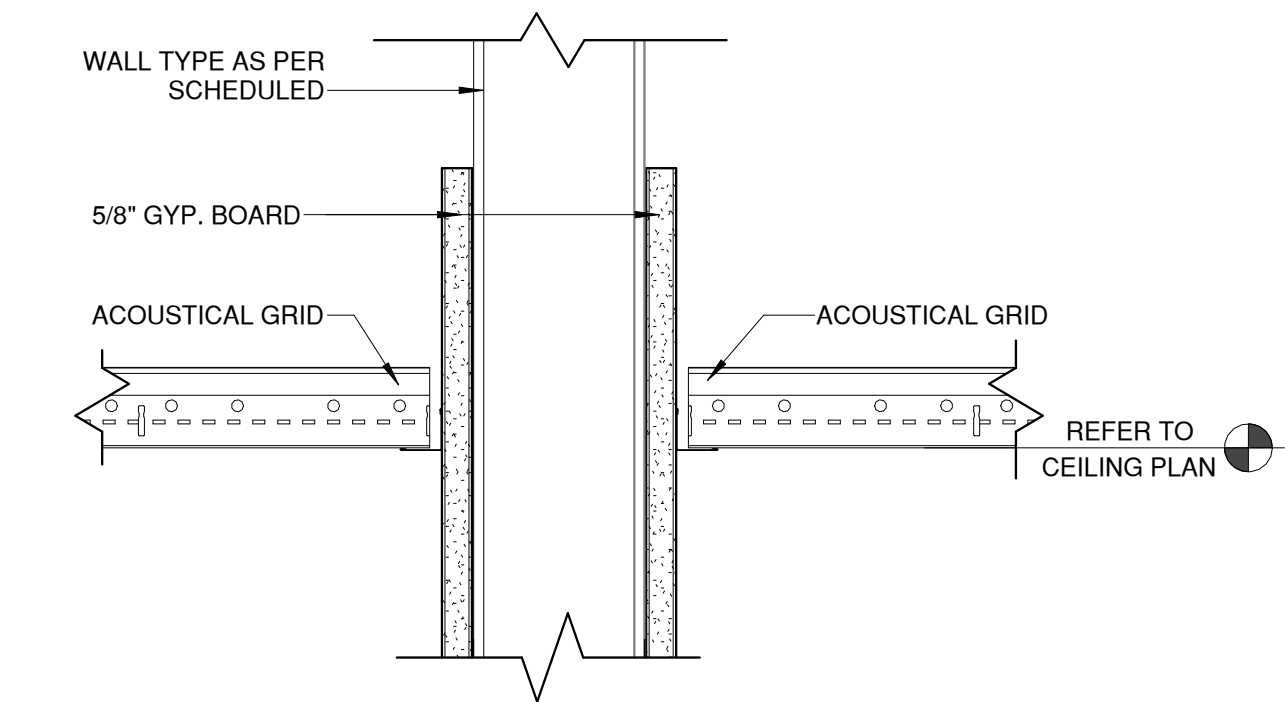




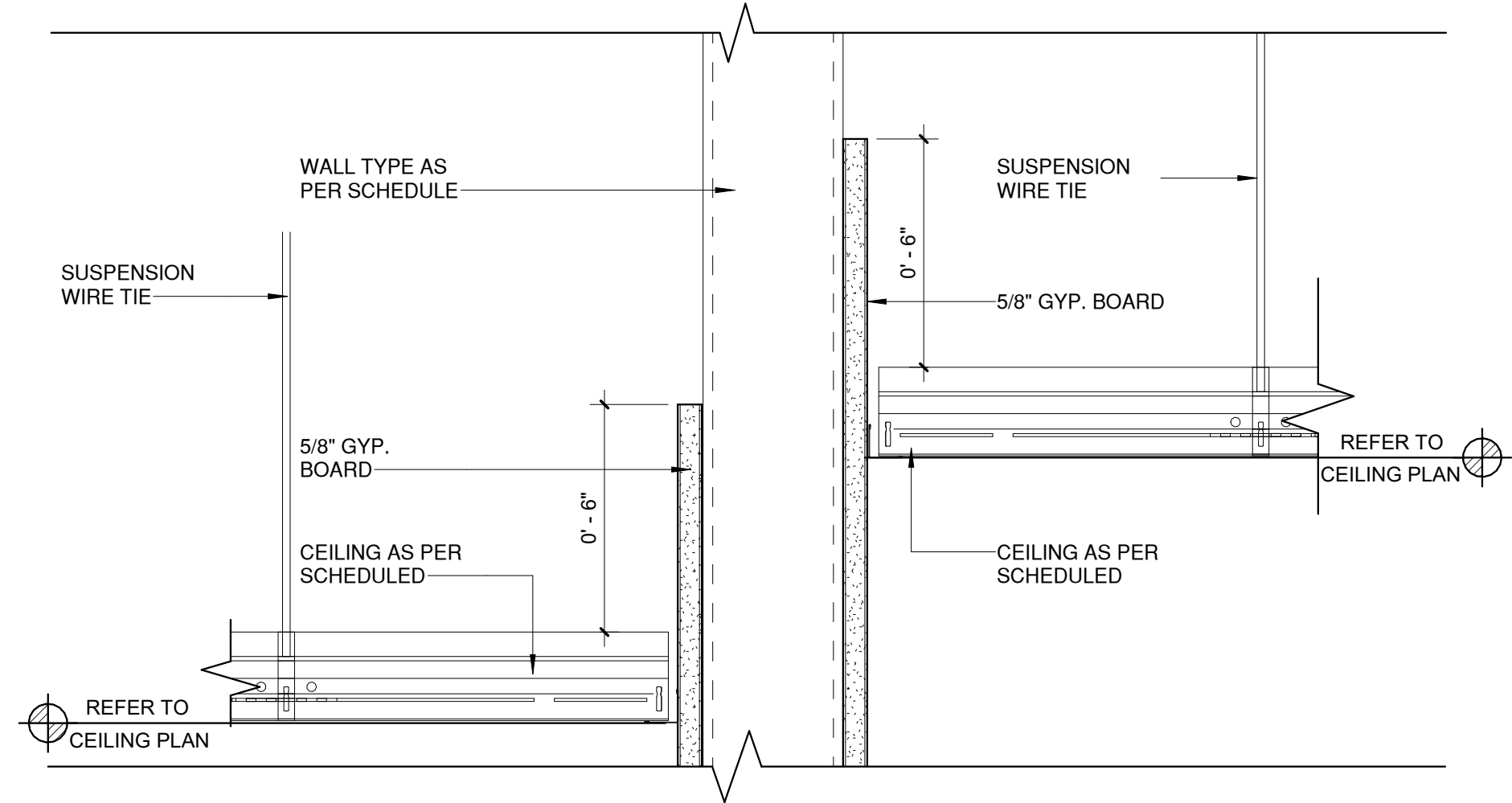
01 CEILING TRANSITION - VERTICAL DUCTWORK CHASE  
1/2" = 1'-0"



02 CEILING TRANSITION - GYP. BOARD  
1/2" = 1'-0"



03 CEILING TRANSITION DETAIL - LAY-IN CEILING - EQUAL HEIGHTS  
3" = 1'-0"



04 CEILING TRANSITION DETAIL - LAY-IN CEILING - CHANGE IN HEIGHTS  
3" = 1'-0"

Countryman & Co.  
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: PJ  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

REVISION SCHEDULE:

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TORNILLO INDEPENDENT SCHOOL DISTRICT  
GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

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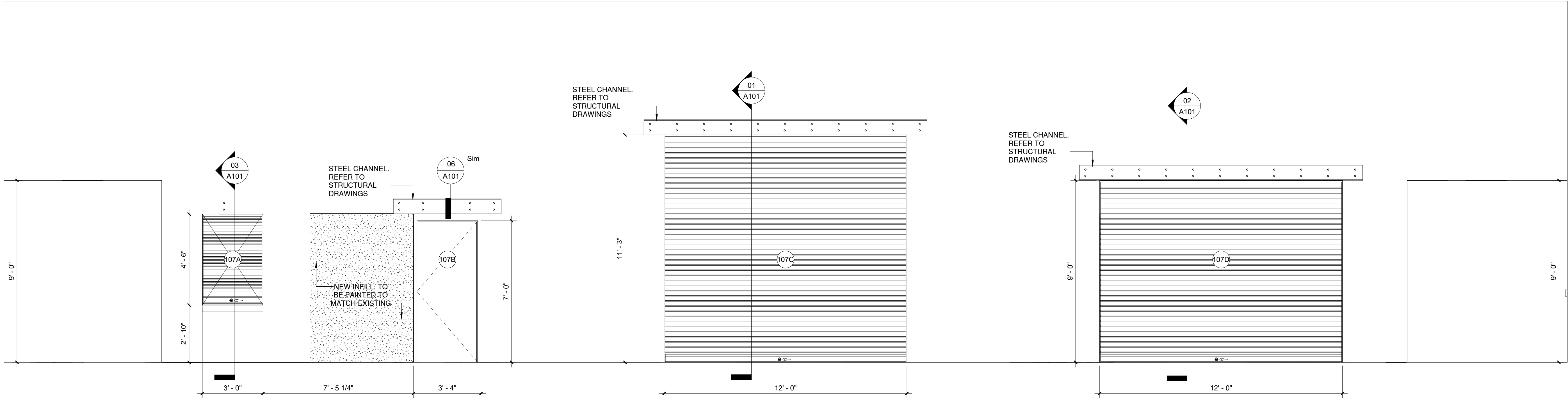
CEILING TRANSITION DETAILS

CONSTRUCTION  
DOCUMENTS

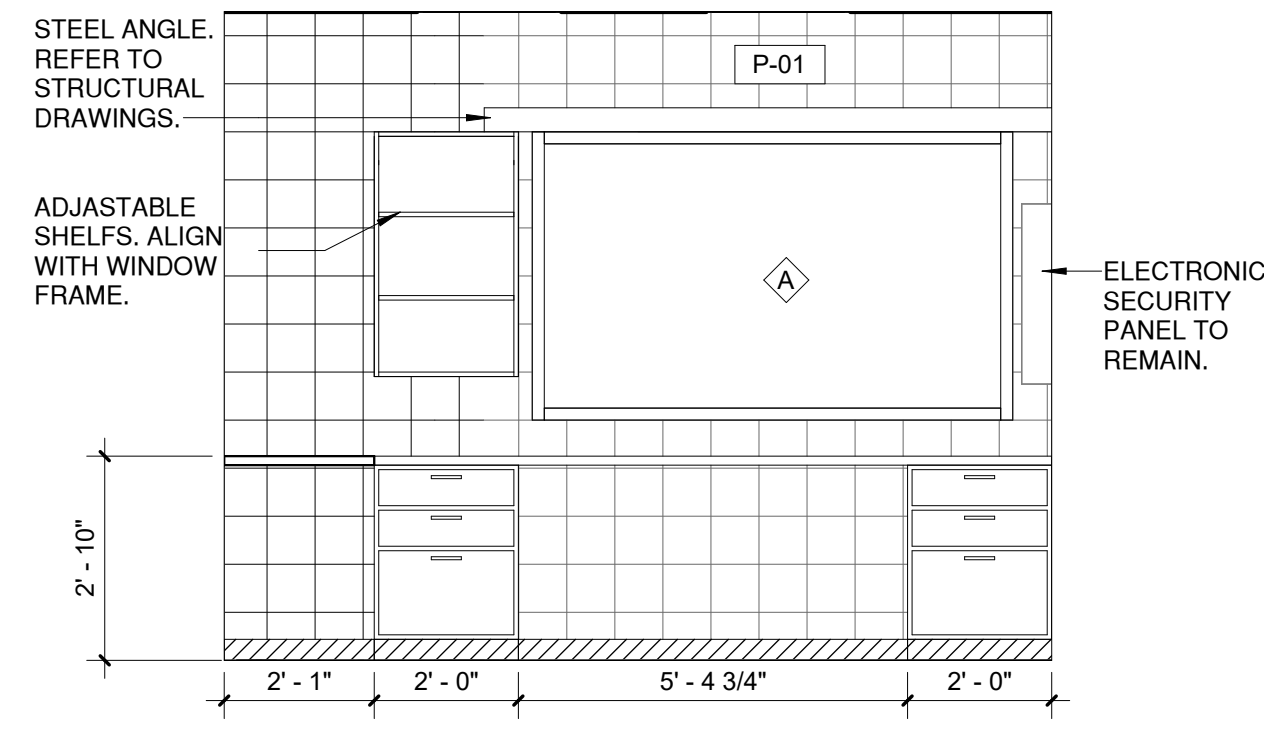
A121



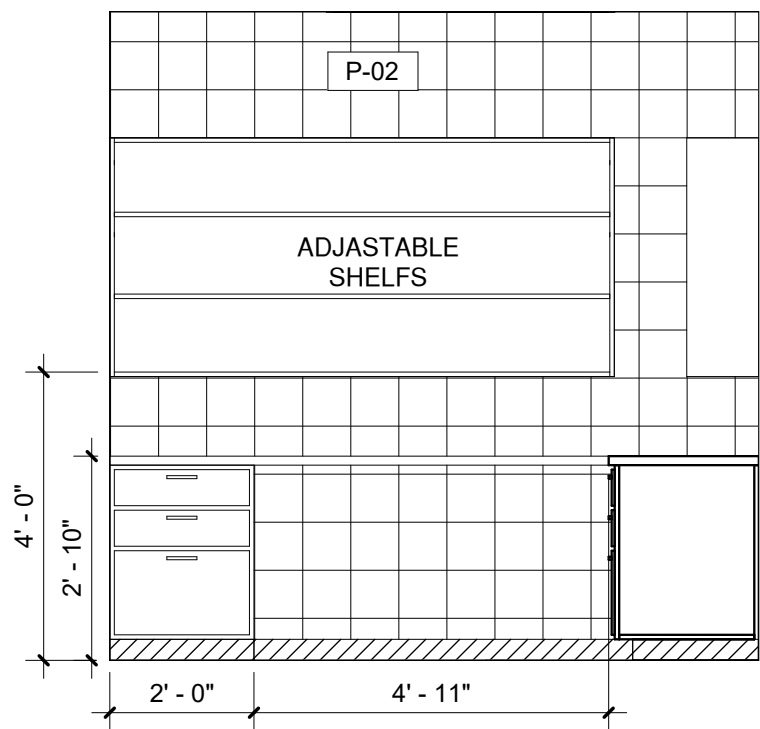




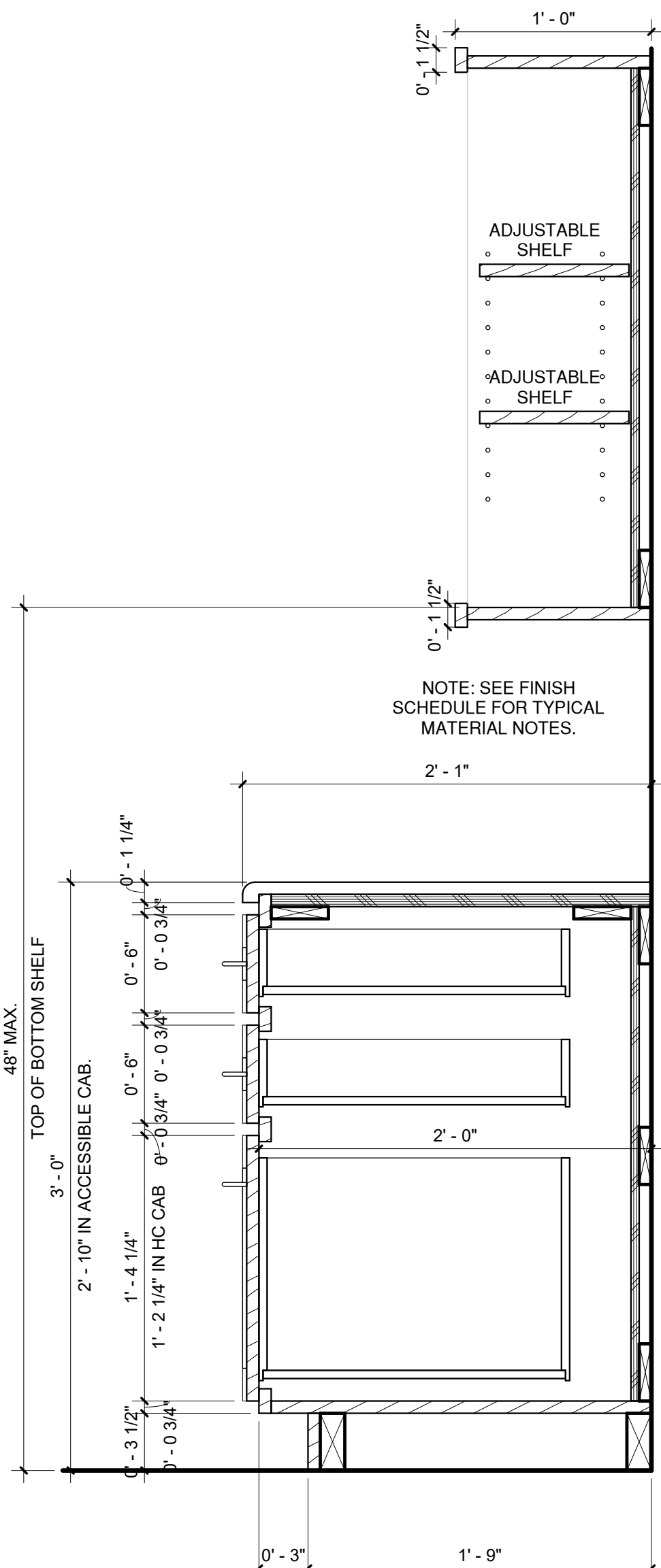
01 INTERIOR ELEVATION - NEW OPENINGS  
3/8" = 1'-0"



02 INTERIOR ELEVATION - MANAGER'S OFFICE A  
3/8" = 1'-0"



03 INTERIOR ELEVATION - MANAGER'S OFFICE B  
3/8" = 1'-0"



04 CABINET W/ DRAWERS DETAIL  
1 1/2" = 1'-0"

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PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

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# TORNILLO INDEPENDENT SCHOOL DISTRICT GYM TO CAFETERIA CONVERSION

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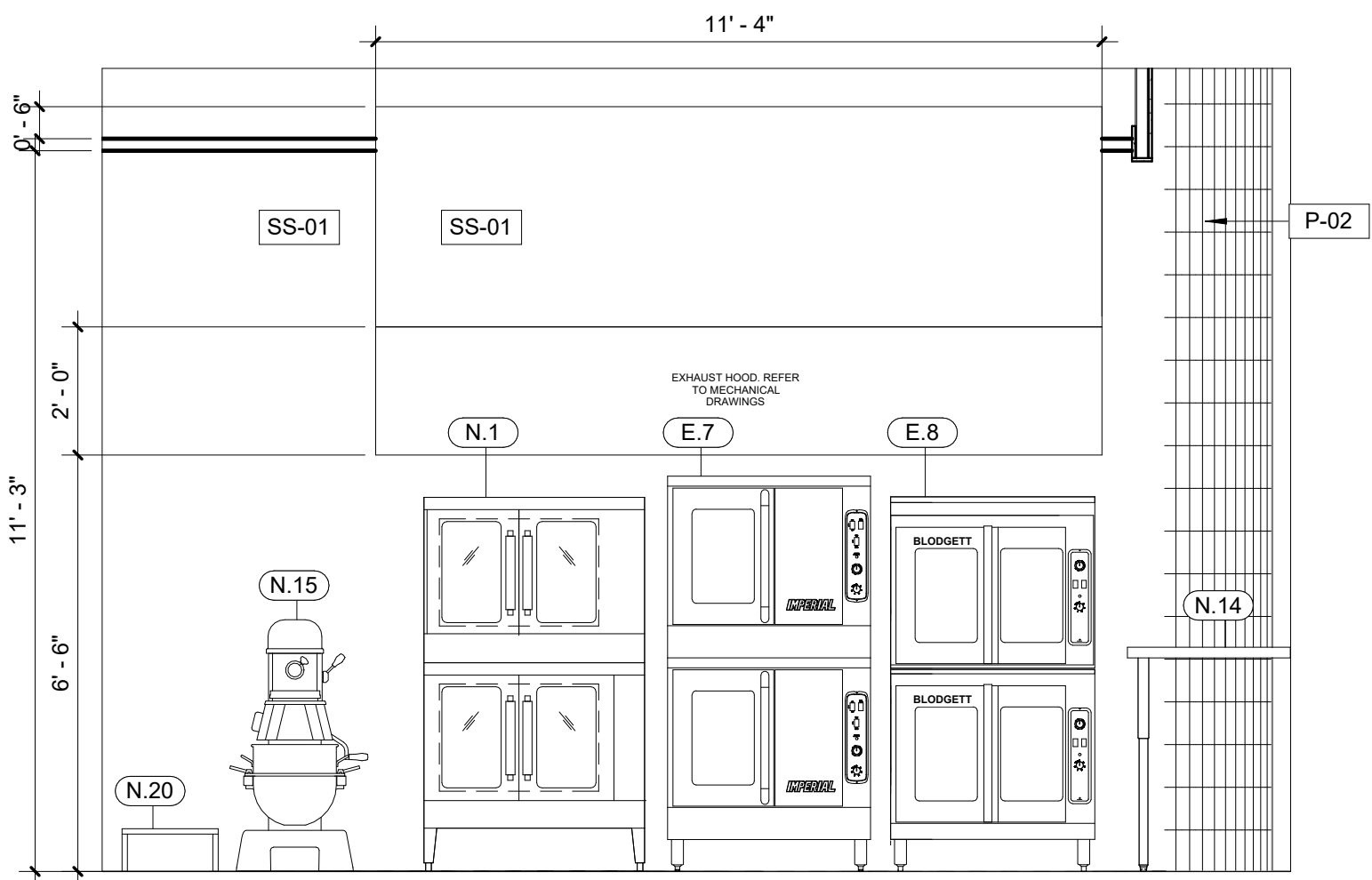
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## INTERIOR ELEVATIONS & MILLWORK DETAILS

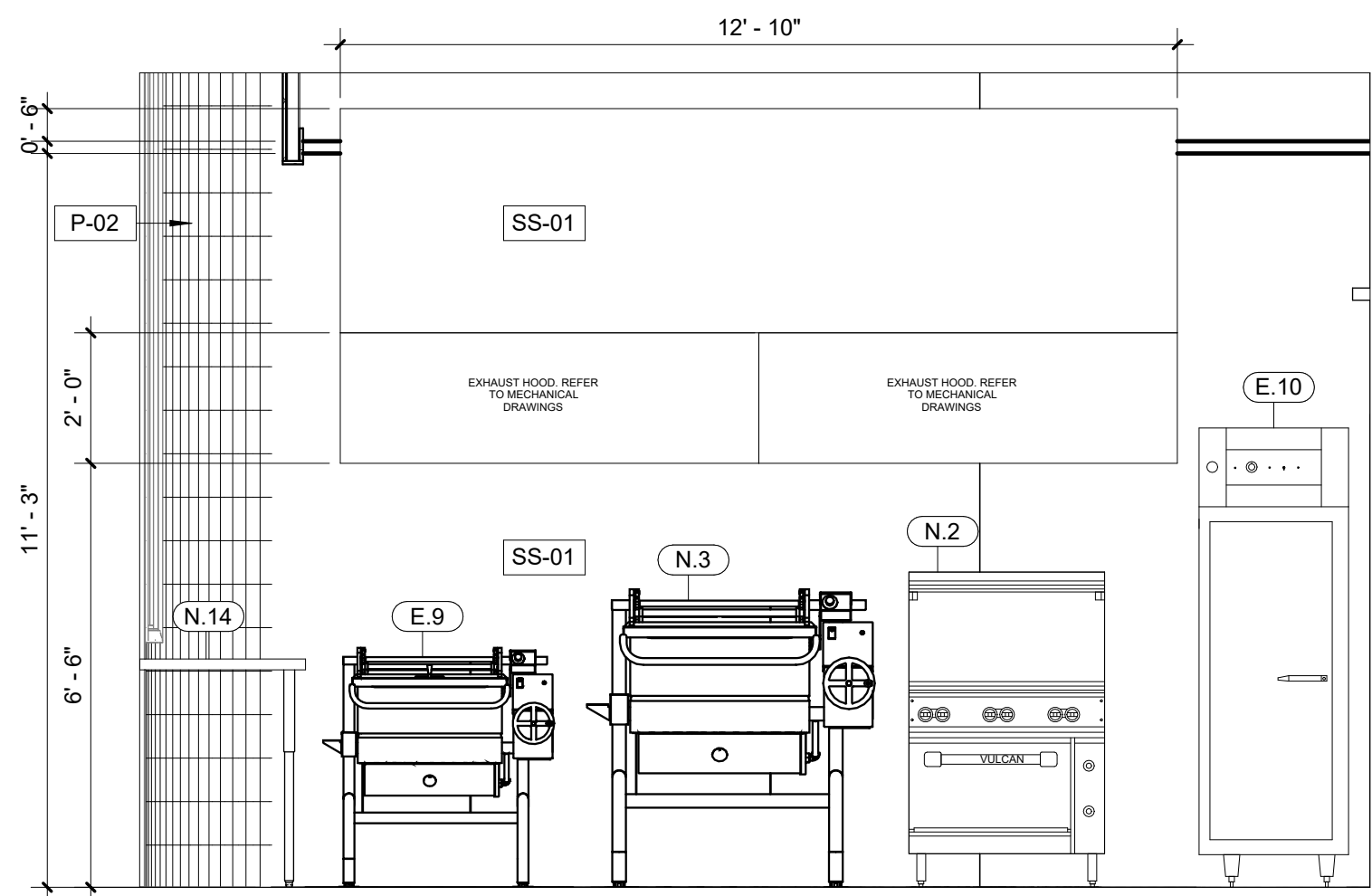
CONSTRUCTION  
DOCUMENTS

A200

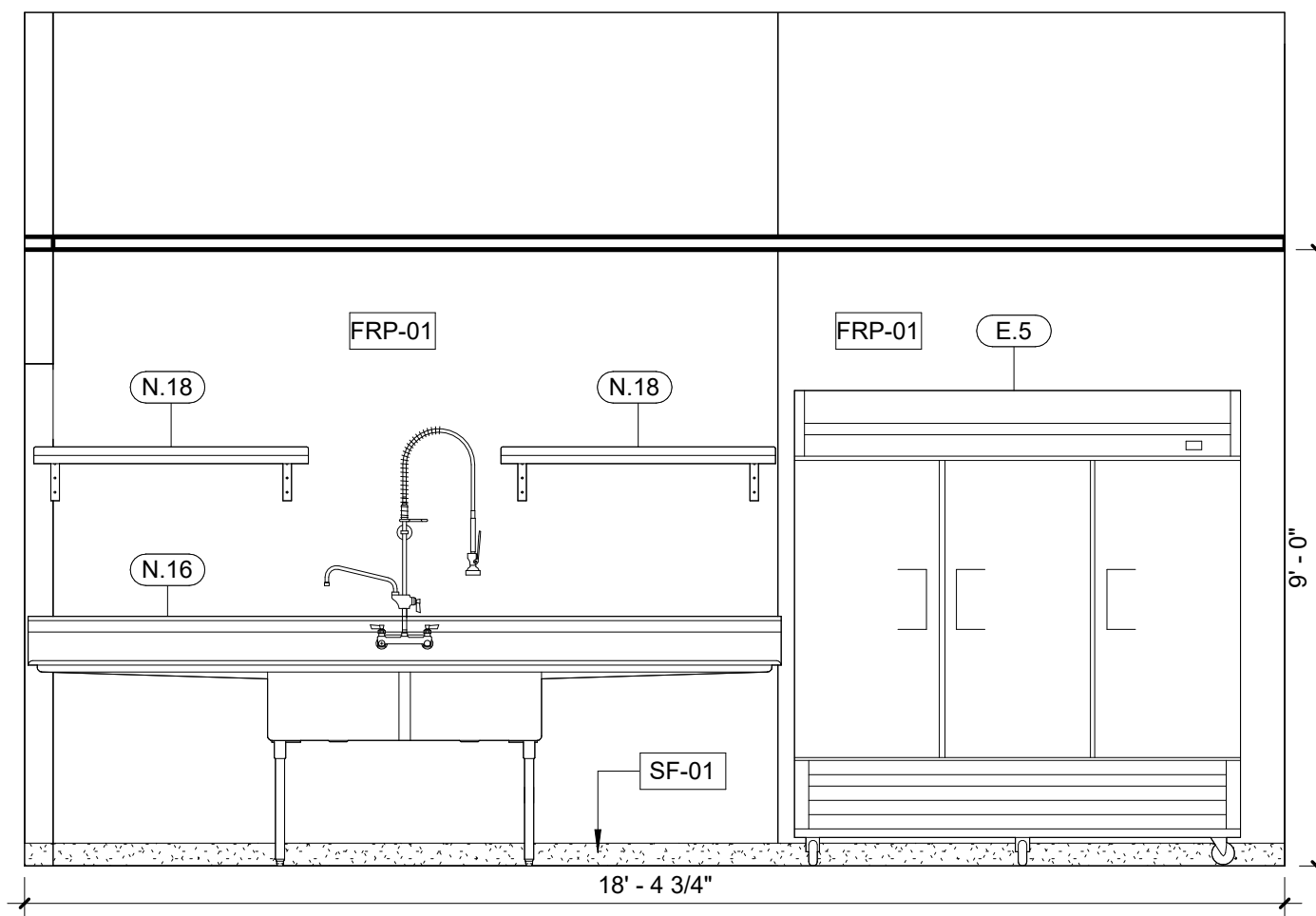




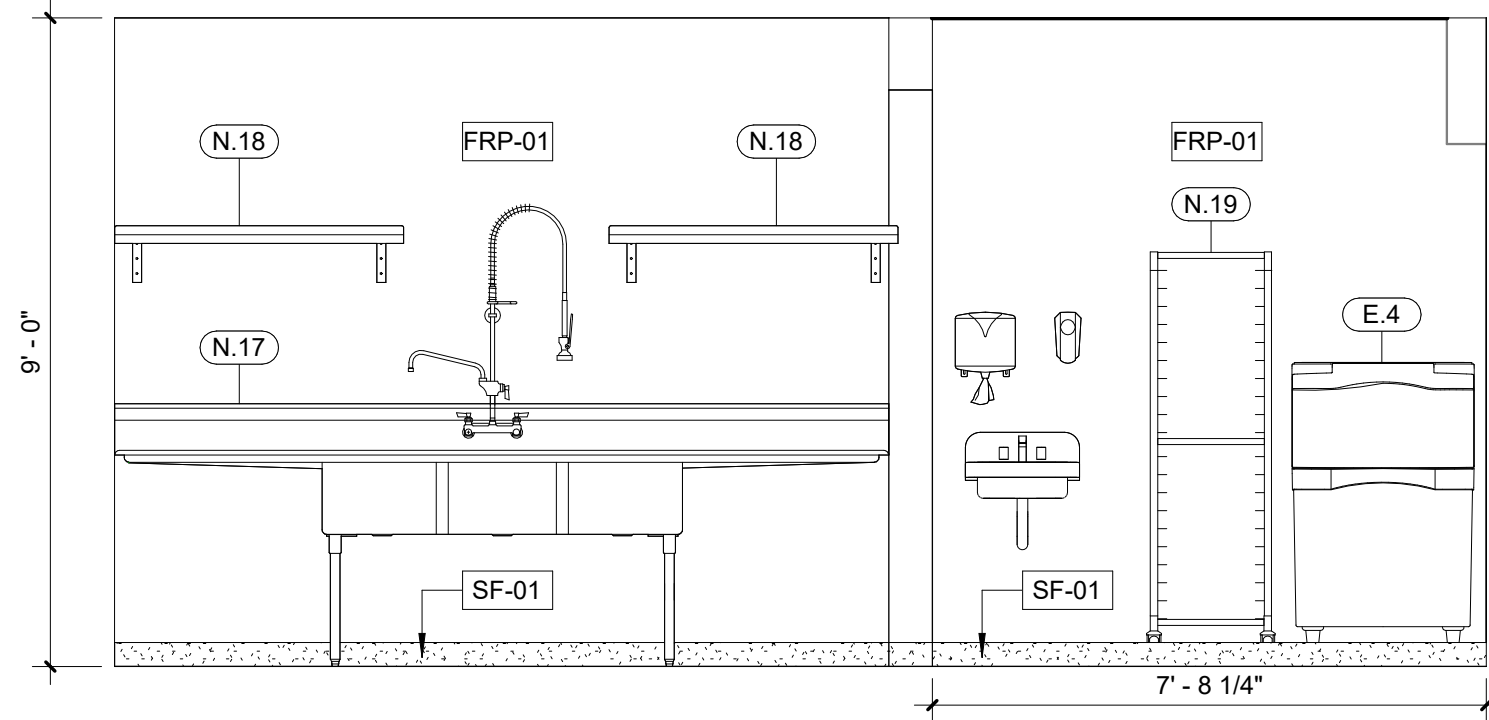
01 KITCHEN ELEVATION A  
3/8" = 1'-0"



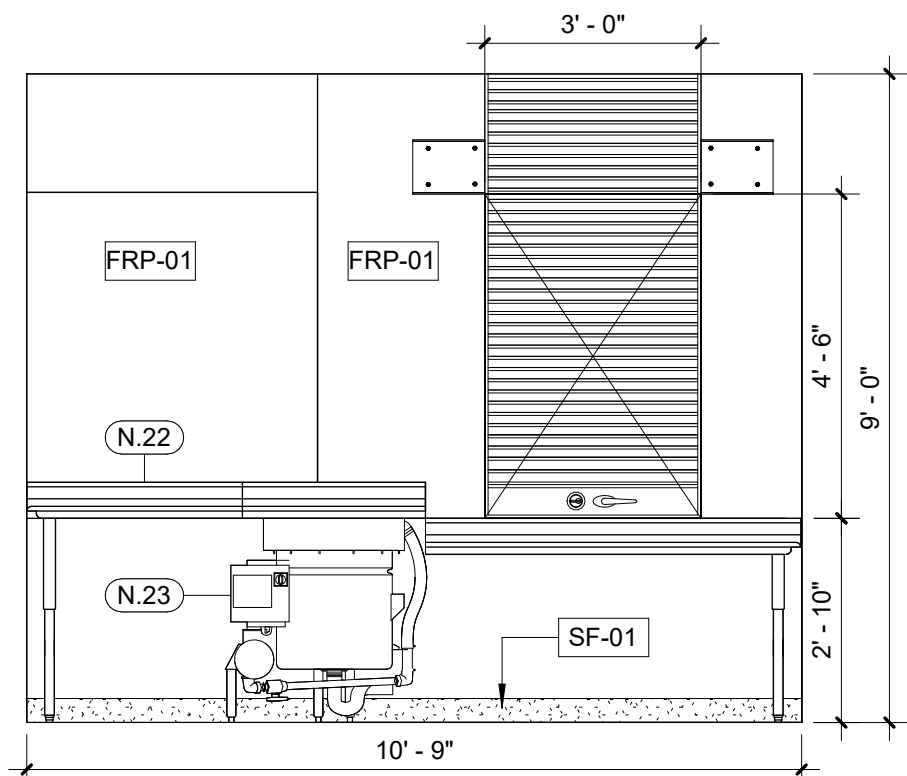
02 KITCHEN ELEVATION B  
3/8" = 1'-0"



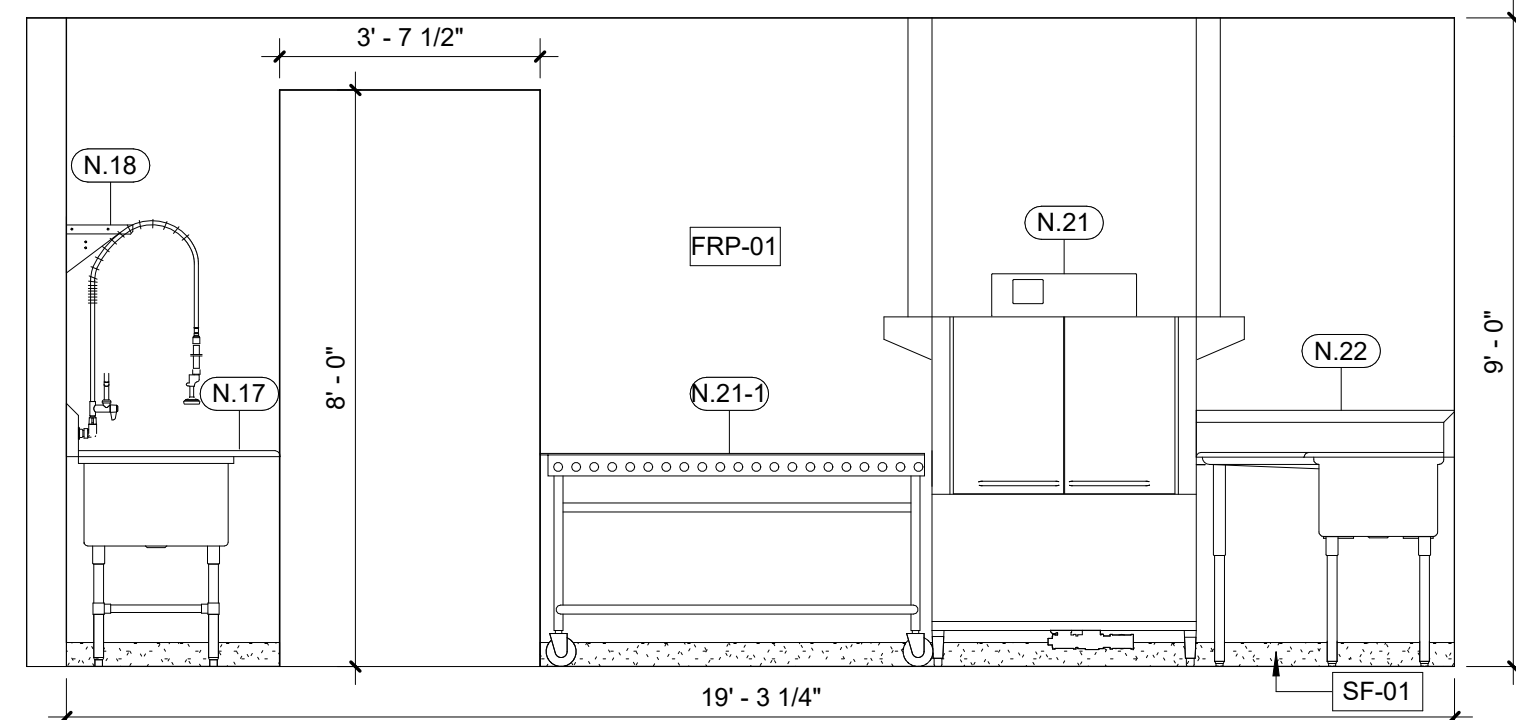
03 KITCHEN ELEVATION C  
3/8" = 1'-0"



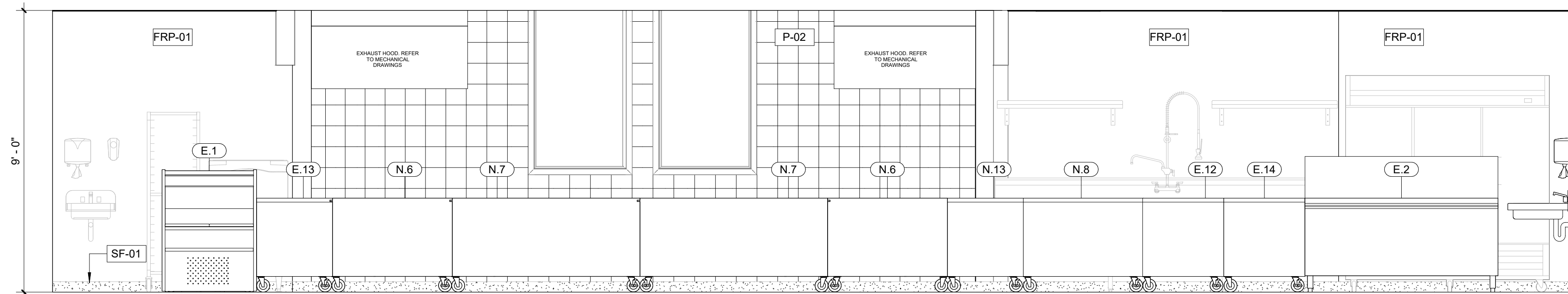
04 KITCHEN ELEVATION D  
3/8" = 1'-0"



05 KITCHEN ELEVATION E  
3/8" = 1'-0"



06 KITCHEN ELEVATION F  
3/8" = 1'-0"



07 KITCHEN ELEVATION G  
3/8" = 1'-0"

FINISH SCHEDULE						
ITEM	DESCRIPTION	MAKE   MODEL	DIMENSIONS	VENDOR	LEGEND	NOTES
WALL FINISHES						
P - 01	FIELD COLOR	MFR: SHERWIN WILLIAMS COLOR: AGREEABLE GRAY SW 7029		www.sherwin-williams.com		2
	TRADITIONAL VINYL WALL BASE	MFR: TARKETT MODEL: TRADITIONAL WALL BASE TA4 COLOR: GATEWAY WG	4" H	www.commercial.tarkett.com		
P - 02	ACCENT COLOR	MFR: SHERWIN WILLIAMS COLOR: KEYSTONE GRAY SW 7504		www.sherwin-williams.com		2
	TRADITIONAL VINYL WALL BASE	MFR: TARKETT MODEL: TRADITIONAL WALL BASE TA4 COLOR: GATEWAY WG	4" H	www.commercial.tarkett.com		
FRP-01	FIBERGLASS REINFORCED PANELS					
SS-01	STAINLESS STEEL					
FINISH SCHEDULE NOTES						
1. ALL FINISHES TO BE APPROVED BY OWNER.						
2. TWO PAINTING COATS TO BE APPLIED, MINIMUM.						
3. ALL PAINTINGS AND COATINGS APPLIED SHALL BE APPROPRIATE FOR THE SUBSTRATE, AND SHALL BE APPLIED AS PER THE MANUFACTURER'S INSTRUCTIONS.						

Countryman & Co.  
Architecture

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DRAWN BY: AL | PJ  
PROJECT NO: 2022-16  
ISSUED: NOVEMBER 1, 2022

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## TORNILLO INDEPENDENT SCHOOL DISTRICT GYM TO CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

## KITCHEN INTERIOR ELEVATIONS



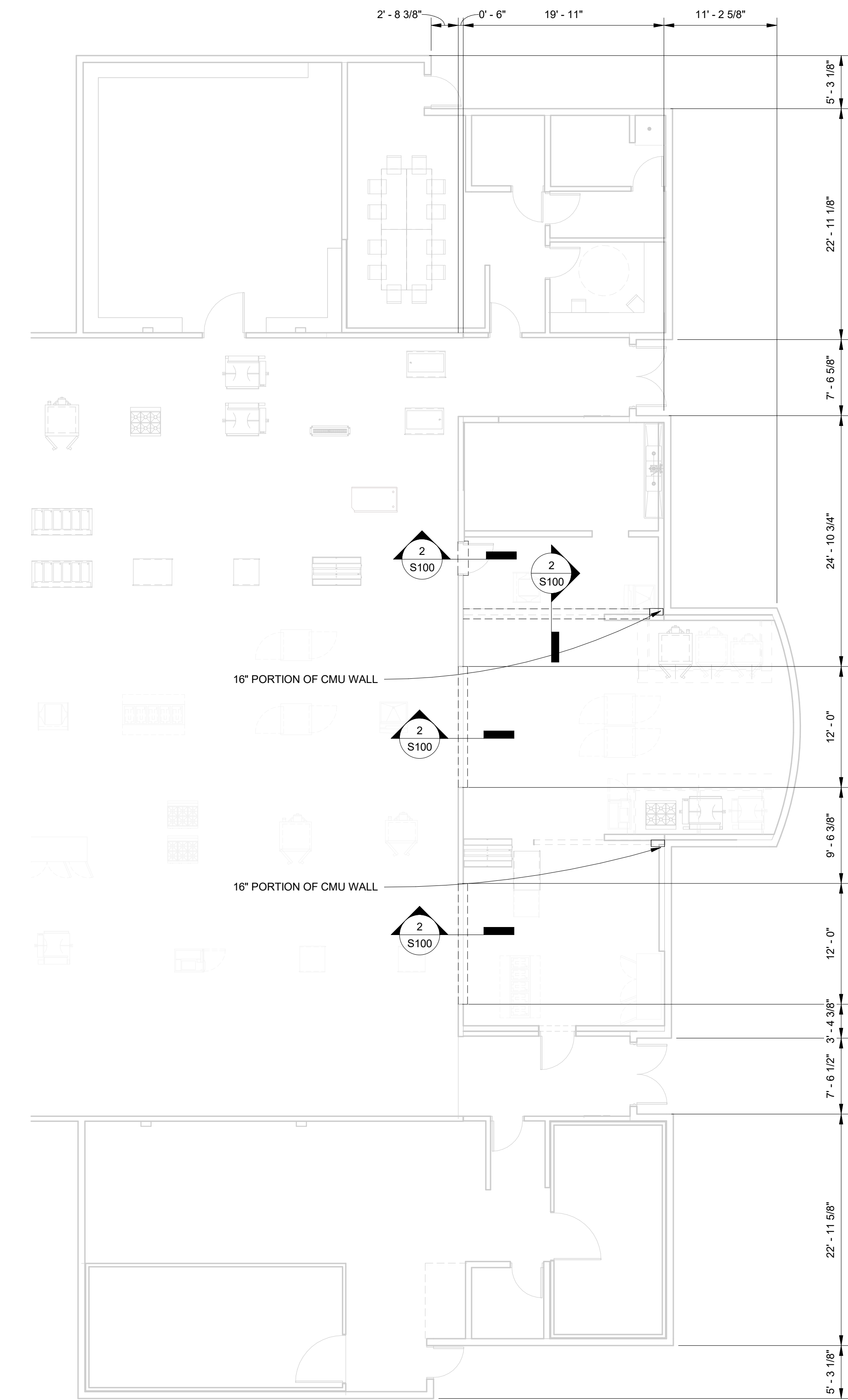
CONSTRUCTION  
DOCUMENTS

A201

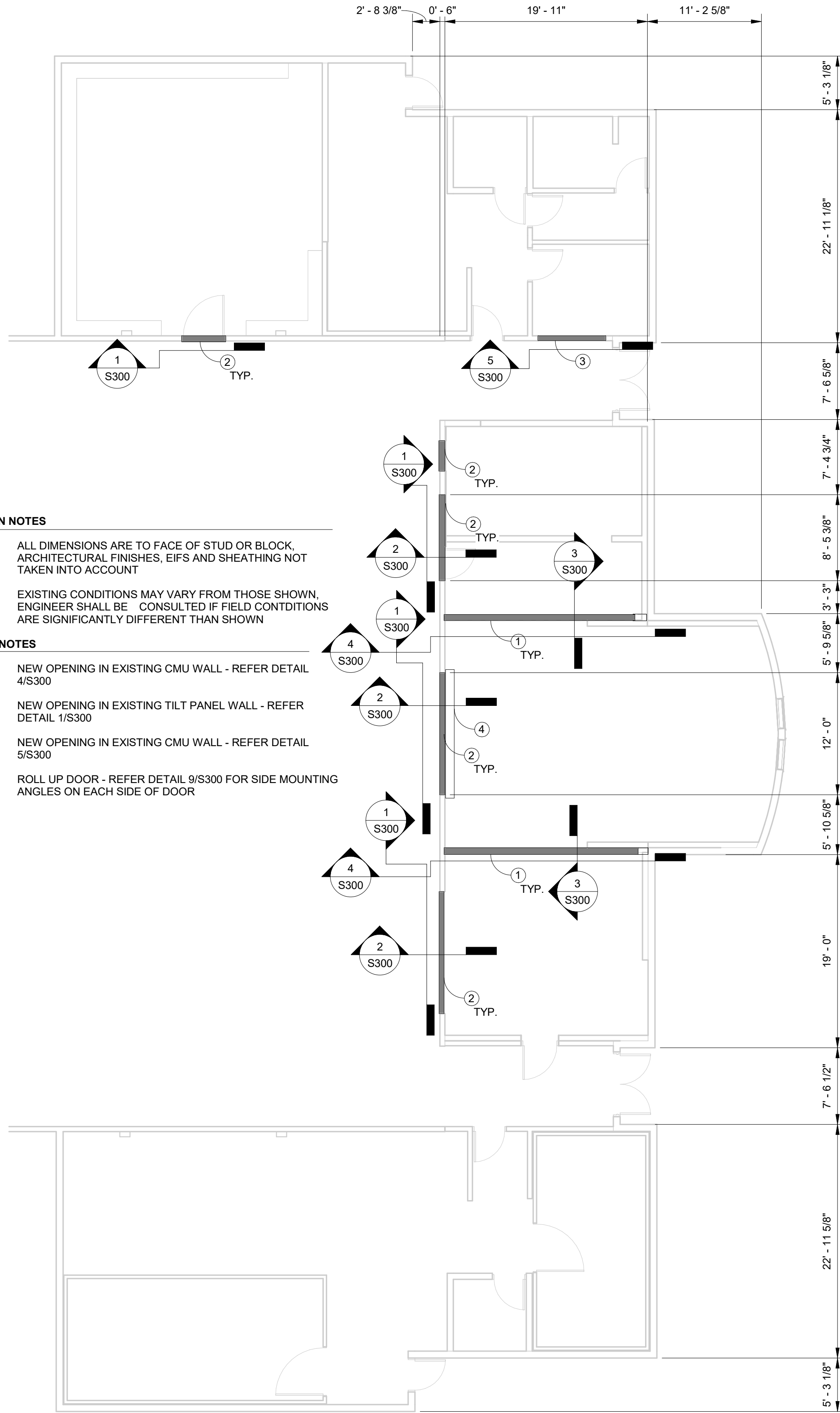








① FOUNDATION PLAN  
1/8" = 1'-0"



PLAN NOTES

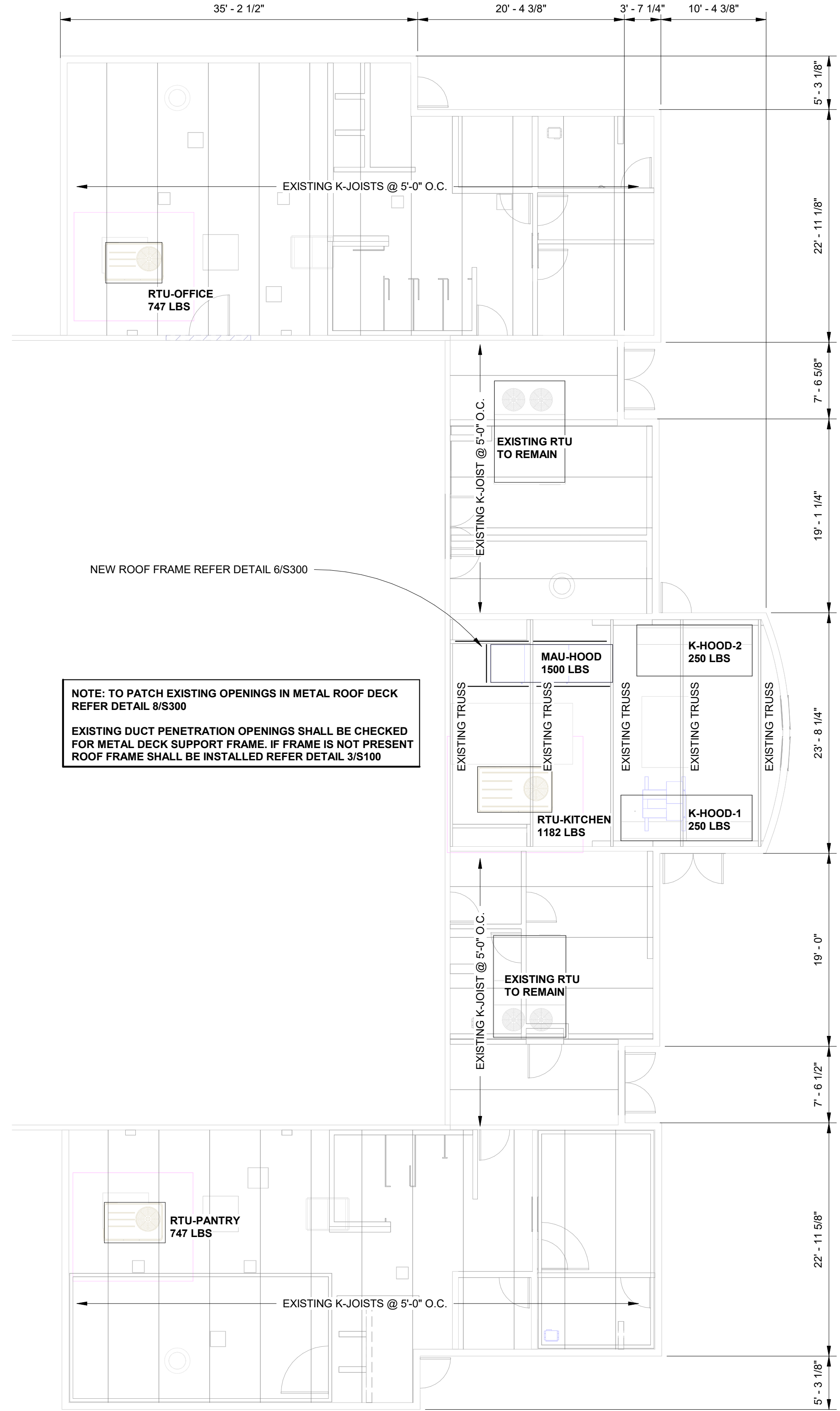
ALL DIMENSIONS ARE TO FACE OF STUD OR BLOCK, ARCHITECTURAL FINISHES, EIFS AND SHEATHING NOT TAKEN INTO ACCOUNT

EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN, ENGINEER SHALL BE CONSULTED IF FIELD CONDITIONS ARE SIGNIFICANTLY DIFFERENT THAN SHOWN

KEYNOTES

1. NEW OPENING IN EXISTING CMU WALL - REFER DETAIL 4/S300
2. NEW OPENING IN EXISTING TILT PANEL WALL - REFER DETAIL 1/S300
3. NEW OPENING IN EXISTING CMU WALL - REFER DETAIL 5/S300
4. ROLL UP DOOR - REFER DETAIL 9/S300 FOR SIDE MOUNTING ANGLES ON EACH SIDE OF DOOR

② WALL OPENING PLAN  
1/8" = 1'-0"



NEW ROOF FRAME REFER DETAIL 6/S300

NOTE: TO PATCH EXISTING OPENINGS IN METAL ROOF DECK REFER DETAIL 8/S300

EXISTING DUCT PENETRATION OPENINGS SHALL BE CHECKED FOR METAL DECK SUPPORT FRAME. IF FRAME IS NOT PRESENT ROOF FRAME SHALL BE INSTALLED REFER DETAIL 3/S100

③ ROOF FRAMING  
1/8" = 1'-0"



10/26/2022

**HARDER**  
STRUCTURAL ENGINEERING

108 S Stanton St  
El Paso, TX 79901

915.787.0622

TBP/ELS Firm Number: 22328

PROJECT NUMBER: 2022-16

100% CONSTRUCTION  
DOCUMENTS

**S200**

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Architecture

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DRAWN BY: IHH  
PROJECT NO: 2022-16  
ISSUED: OCTOBER 26, 2022

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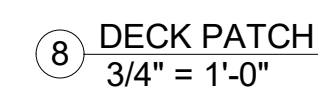
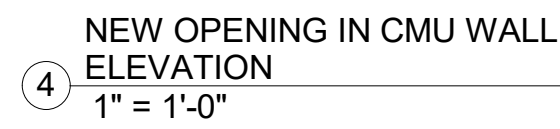
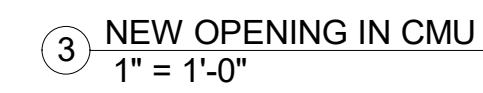
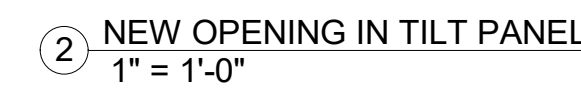
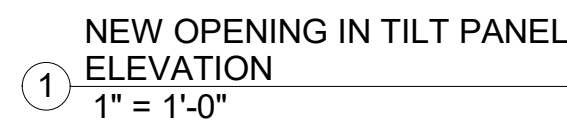
**TORNILLO INDEPENDENT SCHOOL DISTRICT**  
**GYM TO CAFETERIA CONVERSION**

300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

**PLAN VIEW**





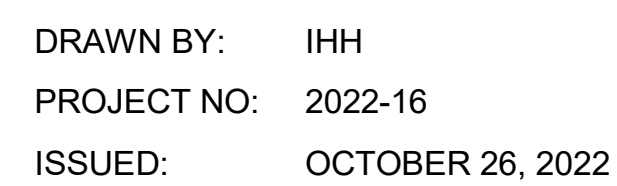
18 S Stanton St  
Paso, TX 79901  
915.787.0622

BP&S Firm Number: 22328  
PROJECT NUMBER:2022-16

## 100% CONSTRUCTION DOCUMENTS

# S300

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SHEET TITLE:

## DETAILS



HVAC GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS, AS WELL AS OTHER RELATED TRADES (INCLUDING ARCHITECTURAL, CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURERS PRIOR TO INSTALLATION.
3. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN SUCH A WAY AS TO CONFORM TO THE SPACE AVAILABLE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
4. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, COUNTY, STATE AND FEDERS CODES, RULES AND REGULATIONS. NOTHING SHOWN IN THE PLANS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
6. SUBSTITUTIONS: 10 WORKING DAYS PRIOR APPROVAL REQUIRED AS INDICATED UNDER THE GENERAL AND/OR SUPPLEMENTAL CONDITIONS OF THESE SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL, MECHANICAL AND CHANGES TO THE STRUCTURE WHEN USING A PRODUCT OTHER THAN THE SPECIFIED PRODUCT. AS BUILT DRAWING CHANGES ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
7. PROVIDE LONG RADIUS ELBOWS WITH OUT VANES, MANUAL BALANCING DAMPERS WITH 2" STANDOFF ON ALL BRANCH SUPPLY AND OUTSIDE AIR DUCTS.
8. DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS. SNAPLOCK, DUCTWORK AND FITTINGS NOT ALLOWED.
9. ALL DUCTWORK AND FITTINGS SHALL BE 24 GAUGE MINIMUM. INSTALLED AND, FABRICATED IN ACCORDANCE WITH "ASHRAE GUIDELINES AND SMACNA STANDARDS." FOR DUCT SIZE 18" WIDE AND LARGER PROVIDE DUCTMATE 25.
10. SEAL ALL DUCT JOINTS WITH A U.L. LISTED HIGH PRESSURE DUCT SEALER DUCTMATE, FIBERSEAL.
11. INSULATE ALL SUPPLY AND RETURN DUCTWORK ABOVE THE CEILING WITH R-6 INSTALLED DUCTWRAP. LABEL SUPPLY AND RETURN DUCT SYSTEM WITH THE NAME OF THE AIR CONDITIONING UNIT SOURCE.
12. EXACT PLACEMENT OF DIFFUSERS AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO THE INSTALLATION. CONNECT DIFFUSER WITH A S' SECTION. MAXIMUM OF THERMAFLEX COMMERCIAL GRADE MODEL M-KE UL LISTED 181 DUCT WITH 2" INSULATION R-8. RESIDENTIAL FLEXIBLE DUCTWORK NOT ALLOWED.
13. ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTIONS THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURERS INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
14. CONTRACTOR AND ARCHITECT TO VERIFY SENSOR LOCATIONS. ALL TEMPERATURE SENSORS TO BE MOUNTED 48" A.F.F. IF DDC BMS SYSTEM IS IN PLACE. CONTRACTOR ADVISED THAT ALL HALLWAYS AND GYM SENSORS (IF APPLICABLE) SHALL BE S.S PLATE FLUSH WITH NO LCD DISPLAY AND WITH A RECESSED OVERRIDE BUTTON.
15. ALL SUPPLY AND RETURN DUCTS MUST DROP BETWEEN ROOF JOISTS (VERIFY BEFORE SETTING UNITS).
16. ALL MECHANICAL WORK MUST BE COORDINATED WITH ARCHITECT AND ELECTRICIAN BEFORE INSTALLATION.
17. KEEP ALL FLUES AND EXHAUST CAPS A MINIMUM OF 10' AWAY OR 3' ABOVE ALL FRESH AIR INTAKES ON A/C UNITS AND ALL VERTICAL PORTIONS OF BUILDING OR PLUMBING VENTS PER INTERNATIONAL MECHANICAL CODE.
18. CONTRACTOR TO PROVIDE AND INSTALL ALL ROOF TOP UNITS ON A MICROMETL (OR EQUAL) 14" KNOCKDOWN ADJUSTABLE PITCH FACTORY ROOF CURB. INSULATE CURB PERIMETER WALLS IN THE FIELD WITH 1" RIGID INSULATION.
19. MECHANICAL CONTRACTOR TO INSTALL NEW FILTERS IN ALL A/C UNITS AT TURN OVER.
20. ALL METAL FLUES AND/OR CHIMNEYS FROM FOSSIL FUEL FIRED EQUIPMENT MOUNTED INSIDE THE BUILDING SHALL BE OF DOUBLE WALL CONSTRUCTION TYPE B. TERMINATE WITH HIGH WIND A.G.A VENT CAPS.
21. SIZE PROPANE ORIFICES FOR 4000' ELEVATION.
22. ALL A/C UNITS SHALL BE INSTALLED WITH A 2" COMMERCIAL GRADE DUCTMATE-PROFLEX DUCT FLEX CONNECTOR.
23. PROVIDE BACK DRAFT DAMPERS AND BIRD SCREENS IN ALL EXHAUST SYSTEMS.
24. MECHANICAL CONTRACTOR SHALL PROVIDE FIRE DAMPERS WHERE REQUIRED BY CODE AND AT DUCTS PENETRATING RATED ASSEMBLIES. MECHANICAL CONTRACTOR SHALL INSTALL DAMPERS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE EACH DAMPER WITH AN 18"x18" DUCTMATE SANDWICH ACCESS DOOR.
25. ILLUSTRATIONS SHOWN ARE MEANT TO BE USED AS A GENERAL GUIDE ONLY AND ARE NOT INTENDED TO INCLUDE ALL DETAILS FOR ANY SPECIFIC INSTALLATION. ALL INSTALLATIONS MUST COMPLY WITH ALL APPLICABLE CODES AND ITS CONTRACTORS RESPONSIBILITY TO PROVIDE THE OWNER WITH A FULLY FUNCTIONAL HVAC SYSTEM.
26. SENSORS SHALL BE CALIBRATED DURING TEST AND BALANCE AND SHALL BE DOCUMENTED IN THE REPORT.
27. CONTRACTOR SHALL PROVIDE A 24X24" GASKETED AIR TIGHT CEILING ACCESS DOORS FOR FIRE DAMPERS, VAV BOXES, FAN COILS. LOCATED ABOVE HARD CEILINGS AND 12X12" ACCESS DOOR FOR PLUMBING ACCESSORIES AND VOLUME DAMPERS.

28. CONTRACTOR SHALL PATCH AND PAINT TO MATCH EXISTING CEILINGS, WALLS AND FLOORS THAT WERE OPENED AS PART OF THIS WORK. CONTRACTOR SHALL PROVIDE A PRELIMINARY TAB REPORT THAT SHALL BE REVIEWED BY THE ENGINEER, BEFORE OF THE EQUIPMENT COMPLETION FOR THE PROJECT.
29. START UP OF MAJOR EQUIPMENT SHALL BE PROVIDED BY A FACTORY AUTHORIZED AGENT. FIELD REPORTS AND STAR UP CHECK LIST SHALL BE SUBMITTED TO OWNER BY THE START UP AGENT THROUGH THE ENGINEERS PRIOR TO WALK THRU AS A PART OF THE EQUIPMENT CHECK LIST PROCEDURE.
30. WARRANTIES CANNOT BEGIN UNTIL THE DATE OF FINAL ACCEPTANCE HAS BEEN ESTABLISHED.
31. GENERAL CONTRACTOR SHALL ENGAGE AN NEEB, AABC OR TABB CERTIFIED TEST AND BALANCE COMPANY. PROVIDE A PRELIMINARY TAB REPORT THAT SHALL BE REVIEWED BY THE ENGINEER, OWNER AND ARCHITECT BEFORE PROJECT SUBSTANTIAL COMPLETION.

MECHANICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ROOF MOUNTED AIR CONDITIONING UNIT.		FLEXIBLE DUCTWORK.
	SINGLE INLET EVAPORATIVE COOLER.		SUPPLY RIGID DUCTWORK.
	DOUBLE INLET EVAPORATIVE COOLER.		RETURN RIGID DUCT TRANSITION.
	CEILING EXHAUST FAN.		SUPPLY AIR DUCT ROOF PENETRATION
	ROOF MOUNTED EXHAUST FAN.		RETURN DUCT ROOF PENETRATION.
	DIRECT DRIVE IN-LINE EXHAUST FAN.		EXHAUST RIGID DUCT DOWN.
	BELT DRIVEN IN-LINE EXHAUST FAN.		EXHAUST DUCT ROOF PENETRATION
	LOW PROFILE DIRECT DRIVE FAN COIL UNIT.		SIDEWALL SUPPLY AIR OUTLET
	ROOF MOUNTED MAKE-UP AIR UNIT.		SIDEWALL RETURN OR EXHAUST AIR OUTLET
	VOLUME DAMPER.		CEILING DIFFUSER WITH FLEXIBLE DUCT
	SMOKE DAMPER.		HARD CONNECTED CEILING DIFFUSER
	ACCESS DOOR.		CEILING RETURN OR EXHAUST GRILLE.
	NEW TO EXISTING CONNECTION		LONG RADIUS ELBOW WITH OUT VANES.
	EQUIPMENT DESIGNATION		DRAIN LINE
	THERMOSTAT.		CONDENSATE DRAIN
	HUMIDISTAT.		REFRIGERANT LIQUID LINE
	ROOM TEMPERATURE SENSOR.		REFRIGERANT SUCTION LINE
	EXHAUST FAN CONTROL SWITCH.		CHILLED WATER SUPPLY LINE
			CHILLED WATER RETURN LINE
			HOT WATER SUPPLY LINE
			HOT WATER RETURN LINE
			CONDENSER WATER SUPPLY LINE
			CONDENSER WATER RETURN LINE

DIFFUSER AND GRILLE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER AND MODEL NO.	THROW PATTERN	FACE MODULE	MAX NC	MAX SP	REMARKS
A	TWISTER STAMPED CEILING SWIRL DIFFUSER	NAILOR TWR	SWIRL	24X24	20	0.1"	24"x24" STAMPED FACE MODULE. LAY-IN FRAME. ROUND NECK. STEEL CONSTRUCTION. STANDARD WHITE BAKED ENAMEL FINISH. STEEL RADIAL SLIDING BLADE DAMPER WITH SCREWDRIVER ADJUSTMENT. THERMAFLEX FLEXFLOW ELBOW. THERMAFLEX S.S. SNAPLOCK CLAMP.
B	FIXED PERFORATED DOWNBLAST DIFFUSER	NAILOR UNI-PD	4-WAY	24X24	20	0.1"	24"x24" PERFORATED FACE 3/8" HOLE MODULE. LAY-IN FRAME. ROUND NECK. STEEL CONSTRUCTION. STANDARD WHITE BAKED ENAMEL FINISH. STEEL RADIAL SLIDING BLADE DAMPER WITH SCREWDRIVER ADJUSTMENT. THERMAFLEX FLEXFLOW ELBOW. THERMAFLEX S.S. SNAPLOCK CLAMP.
C	LAY-IN RETURN EGGRATE GRILLE	NAILOR 61 EC-0-L-AW-CB	RETURN	24X24	20	0.1"	24"x24" FACE MODULE WITH A LAY-IN FRAME. STEEL CONSTRUCTION. 1/2"x1/2"x1" CORE. STEEL OPPOSED BLADE DAMPER. STANDARD WHITE ENAMEL FINISH.
D	SURFACE MTD. RETURN EGGRATE GRILLE	NAILOR 61 EC 0 24X24 -S-AW-CB	RETURN	24X24	20	0.1"	SURFACE MOUNTED FRAME. STEEL CONSTRUCTION. 1/2"x1/2"x1" CORE. STEEL OPPOSED BLADE DAMPER. STANDARD WHITE ENAMEL FINISH.
E	HEAVY DUTY RETURN GRILLE	NAILOR 5130H-HD	RETURN	SEE PLAN	20	0.1"	1" WIDE FACE BORDER. CONCEALED MOUNTING. ALUMINUM CONSTRUCTION. FIXED FRONT BARS ON 1/2" CENTERS IN 30 DEGREE DEFLECTION. ALUMINUM OPPOSED BLADE DAMPER THROUGH THE FACE OF REGISTER OPERATOR.

Countryman & Co.  
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.919.1827



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JORGE A. SILVA, P.E. #9142 ON 02/16/2022. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



DRAWN BY: AEG  
PROJECT NO: 2022-16  
ISSUED: 10/24/2022

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.

PACKAGED RTU SCHEDULE

Unit Tags		RTU-OFFICE	RTU-PANTRY	RTU-KITCHEN	Unit Tags		RTU-OFFICE	RTU-PANTRY	RTU-KITCHEN
Quantity		1	1	1		Saturated Discharge Temp Circuit 1 (F)	123.48	123.48	125.3
Model Number		YSC036G3	YSC036G3	YSC092H3		Saturated Suction Temp Circuit 1 (F)	44.25	44.25	45.9
Extra	Design Airflow (cfm)	1200	1200	2400		Saturated Discharge Temp Circuit 2 (F)			126.48
	Design ESP (in H2O)	1	1	1		Saturated Suction Temp Circuit 2 (F)			45.59
	Unit function	DX cooling, gas heat	DX cooling, gas heat	DX cooling, gas heat		Heating capacity	Low gas heat	Low gas heat	Low gas heat
	Unit efficiency	Standard efficiency	Standard efficiency	Standard efficiency		Input Heating Capacity (MBh)	67.2	67.2	100.8
	Tonnage	3 Ton (036)	3 Ton (036)	7.5 Ton Dual compressor		Output Heating Capacity (MBh)	54.43	54.43	81.65
	Airflow Application	Downflow	Downflow	Downflow		Output Heating Cap. w/Fan (MBh)	55.98	55.98	84.7
	Height (ft)	3.41	3.41	3.91		Heating EAT (F)	64	64	64
	Width (ft)	3.69	3.69	4.44		Heating LAT (F)	114.2	114.2	101.8
	Length (ft)	5.82	5.82	7.39		Heating Delta T (F)	50.2	50.2	37.8
	Max. unit operating weight (lb)	747	747	1182		Heating Type	Gas Heat	Gas Heat	Gas Heat
	EER @ AHRI Conditions (EER)	12	12	11.2		Heating Stages	2	2	1
	SEER/IEER	14	14	12.7		Voltage	208-230/60/3	208-230/60/3	208-230/60/3
	Component SP (in H2O)	0.1	0.1	0.11		Indoor mtr operating power (bhp)	0.51	0.51	0.94
	Total Static Pressure (in H2O)	1.1	1.1	1.11		Indoor RPM (rpm)	1061	1061	800
	Evaporator rows (Each)	2	2	3		Indoor Motor Power (kW)	0.38	0.38	0.7
	Evaporator fin spacing (Per Foot)	192	192	192		Supply Motor Horsepower (hp)	0.75	0.75	1
	Evaporator face area (sq ft)	6.98	6.98	12.36		Max Available ESP (in H2O)	1.15	1.15	
	Evaporator face velocity (ft/min)	172	172	194		Outdoor Motor Power (kW)			0.66
	Cooling Entering DB (F)	80	80	80		Compressor Power (kW)	2.85	2.85	7.74
	Cooling Entering WB (F)	62	62	62		System Power (kW)	3.86	3.86	9.09
	Ent Air Relative Humidity (%)			38.12		Compressor 1 RLA (A)	10.4	10.4	14.5
	Ambient Temp (F)	105	105	105		Compressor 2 RLA (A)	0	0	14
	Evap Coil Leaving Air Temp (DB) (F)	52.39	52.39	50.2		Condenser fan FLA (A)	1.1	1.1	3.3
	Evap Coil Leaving Air Temp (WB) (F)	52.26	52.26	50.2		MCA (A)	20	20	39
	Cooling Leaving Unit DB (F)	55.56	55.56	51.51		MOP (A)	30	30	50
	Cooling Leaving Unit WB (F)	53.48	53.48	50.73	Notes		1, 2, 3, 4, 5, 7, 8	1, 2, 3, 4, 5, 7, 8	1, 2, 3, 4, 6, 7, 8
	Net Total Capacity (MBh)	29.2	29.2	74.59	NOTES: 1. PROVIDE 14" ADJUSTABLE PITCH FACTORY INSULATED ROOF CURB. 2. PROVIDE WITH ELECTROMECHANICAL CONTROLS. 3. PROVIDE DRY-BULB ECONOMIZER WITH POWER EXHAUST. 4. PROGRAMMABLE THERMOSTAT WITH DIGITAL DISPLAY. 5. PROVIDE WITH MERV 8 FILTER. 6. PROVIDE WITH FACTORY HAIL GUARD. 7. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH. 8. PROVIDE WITH THROUGH THE BASE ELECTRICAL ACCESS.				
	Net Sensible Capacity (MBh)	29.1	29.1	66.49					
	Net Sensible Heat Ratio (Number)	1	1	0.89					
	Refrig charge (HFC-410A) - ckt 1 (lb)	3.2	3.2	3.8					
	Refrig charge (HFC-410A) - ckt 2 (lb)			3.6					

TORNILLO INDEPENDENT SCHOOL  
DISTRICT CAFETERIA CONVERSION  
300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

MECHANICAL SCHEDULES, LEGEND GEN. NOTES

Project Status

M-100



Universal Single Width Fan

MARK INFORMATION		FAN INFORMATION							MOTOR INFORMATION				
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	EF-KHOOD 1	USF-24	5,215	1.607	978	1.95	486	2	208/60/3	TF	1725	1	7.5

\*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

EF-KHOOD 1 : SELECTED OPTIONS AND ACCESSORIES
Finish - Coated
Coating - Permatecor, Concrete Gray-RAL 7023, Fan and Attached Accessories
Switch - NEMA-3R, Toggle, For Indoor or Outdoor Use, Ship Separate
Direct Mount Isolators, Isolator-Spring, Restrained, 2 Inch, Indoor / Outdoor Use, Base Coating - N/A
Rotation - CW
Bearings - L(10) Life of 80k Hours
Discharge Position - UB
UL/cUL-762 Outdoor - Power Vent. for Restaurant Exhaust Appliances
Polished Steel Shaft
Access Door - Bolted
Equipment Supports (Qty:2), GESI-64-4-G8, No Coating
Drain Connection - 1" Pipe Thread w/Plug
Inlet Connection, Punched with Companion Flange
Outlet Connection, Slip Fit
Weatherhood - Steel
Heat Slinger
Shaft Seal - High Temp
Grease Trap with Absorbent Material, Shipped Loose

CONTROL INFORMATION

MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED											
	MODEL	LOCATION	TYPE	LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
KH-CONTROLS	GKC-CV-S-11-3-1-0	SHIP LOOSE ENCLOSURE	FULL COLOR TOUCHSCREEN	SHIP LOOSE	1	EXHAUST	E1	EF-KHOOD 1	1	5215	2	208	60	3	NO	YES
					2	SUPPLY	S1	MAU-HOOD	1	4694	5	208	60	3	NO	NO

CONTROL FEATURES
HOOD LIGHT CONTROL
TEMP SENSORS (FACTORY INSTALLED) - QTY. 3
DRY FIRE CONTACTS - QTY. 2
LIGHTS OFF DURING FIRE
EXHAUST MAX DURING FIRE
SUPPLY OFF DURING FIRE
HIGH TEMPERATURE ALARM
FAN PROVING - SUPPLY ONLY
GAS RESET
VFD(S) IN CONTROL PANEL PROVIDED FOR BALANCING

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	TOTAL CFM	EXHAUST COLLAR(S)					SUPPLY		TOTAL WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT				WIDTH	LENGTH	DIA.	CFM	S.P.	MUA CFM	AC CFM		
1	K-HOOD 1	GXEW-77-S	77	54	24	4,430 SS WHERE EXPOSED	HEAVY	1589	10	15		1589	0.607	1342		230.82	LEFT
2	K-HOOD 1	GXEW-77-S	77	54	24	4,430 SS WHERE EXPOSED	4;HEAVY	1393	10	13		1393	0.538	1342		4;227.67	RIGHT

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS			UTILITY CABINET(S)							
		FIXTURE TYPE	BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)	LOCATION	FIRE SYSTEM		CONTROLS			
1	K-HOOD 1	INCANDESCENT (GLOBE)	100W A19 (BULBS NOT INCL.)	4	46.91	X-TRACTOR STAINLESS STEEL	1	16 20	LEFT	TYPE	SIZE	MODEL	INTERFACE		
2	K-HOOD 1	INCANDESCENT (GLOBE)	100W A19 (BULBS NOT INCL.)	4	46.91	X-TRACTOR STAINLESS STEEL	1	16 20	RIGHT	ANSUL R102	9				

SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	COLLARS						
				L	W	H			SUPPLIED	QTY		TYPE	MOUNTING	QTY	W	L	DIA.	CFM
1	K-HOOD 1	FRONT	ASP	89	18	4	NO	YES	NO		1342	MUA	FACTORY	2	16	30		671
2	K-HOOD 1	FRONT	ASP	89	18	4	NO	YES	NO		1342	MUA	FACTORY	2	16	30		671

HOOD OPTIONS

UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #MH11726
BACK INTEGRAL AIR SPACE - 3 IN WIDE
12 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)
FILTER REMOVAL TOOL INCLUDED - QTY 1
BACKSPLASH 78.00 IN HIGH 178.00 IN LONG
PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM	
			HOODS	PCU				
KH-FIRE SUP	ANSUL R-102 WET CHEMICAL	CABINET – RIGHT END OF K-HOOD 1	30 UTILIZED 33 AVAILABLE		CONTINUOUS	FUSIBLE LINK		K-HOOD 1 SECTION 1
								K-HOOD 1 SECTION 2
							K-HOOD-2 SECTION 1	

FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
METAL BLOW-OFF CAPS - INCLUDED
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200
HOOD SUPPRESSION TANK - INCLUDED - 9 GAL. - [(3) 3.0 TANK(S)]
REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS
BILINGUAL EMERGENCY LABEL - QUANTITY 1 - INCULDED - DISTRIBUTOR INSTALLED

Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION							MOTOR INFORMATION				
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	EF-DISH	CUE-090-VG	600	0.514	1,725	0.1	34	0.167	115/60/1	TN	1725	1	4.4

\*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

EF-DISH : SELECTED OPTIONS AND ACCESSORIES
Standard Curb Cap Size - 19 Square
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle, Shipped with Unit
Foam Curb Seal (Factory Applied)
Damper Shipped Loose, BD-100-PB-10X10, Gravity Operated, Not Coated
Composite Wheel Material
Controlled With a Switch

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	TOTAL CFM	EXHAUST COLLAR(S)					SUPPLY		TOTAL WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT				WIDTH	LENGTH	DIA.	CFM	S.P.	MUA CFM	AC CFM		
1	K-HOOD-2	GXEW-136-S	136	60	24	4,430 SS WHERE EXPOSED	4;HEAVY	2233	10	21		2233	0.483	2010		4;376.499	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS			UTILITY CABINET(S)							
		FIXTURE TYPE	BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)	LOCATION	FIRE SYSTEM		CONTROLS			
1	K-HOOD-2	INCANDESCENT (GLOBE)	100W A19 (BULBS NOT INCL.)	6	50.7	X-TRACTOR STAINLESS STEEL	6	16 20	LEFT RIGHT	TYPE	SIZE	MODEL	INTERFACE		
										ANSUL R102	9				

SUPPLY PLENUM INFORMATION

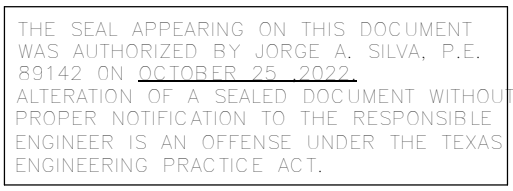
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	COLLARS						
				L	W	H			SUPPLIED	QTY		TYPE	MOUNTING	QTY	W	L	DIA.	CFM
1	K-HOOD-2	FRONT	ASP	80	14	4	NO	YES	NO		1005	MUA	FACTORY	2	12	28		503
1	K-HOOD-2	FRONT	ASP	80	14	4	NO	YES	NO		1005	MUA	FACTORY	2	12	28		503

HOOD OPTIONS

UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #MH11726
BACK INTEGRAL AIR SPACE - 3 IN WIDE
12 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)
FILTER REMOVAL TOOL INCLUDED - QTY 1
BACKSPLASH 78.00 IN HIGH 160.00 IN LONG
PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

Countryman & Co.  
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.919.1827



DRAWN BY: AEG  
PROJECT NO: 2022-16  
ISSUED: 10/24/2022

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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TORNILLO INDEPENDENT SCHOOL  
DISTRICT CAFETERIA CONVERSION  
300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

MECHANICAL SCHEDULES, LEGEND, GEN. NOTES

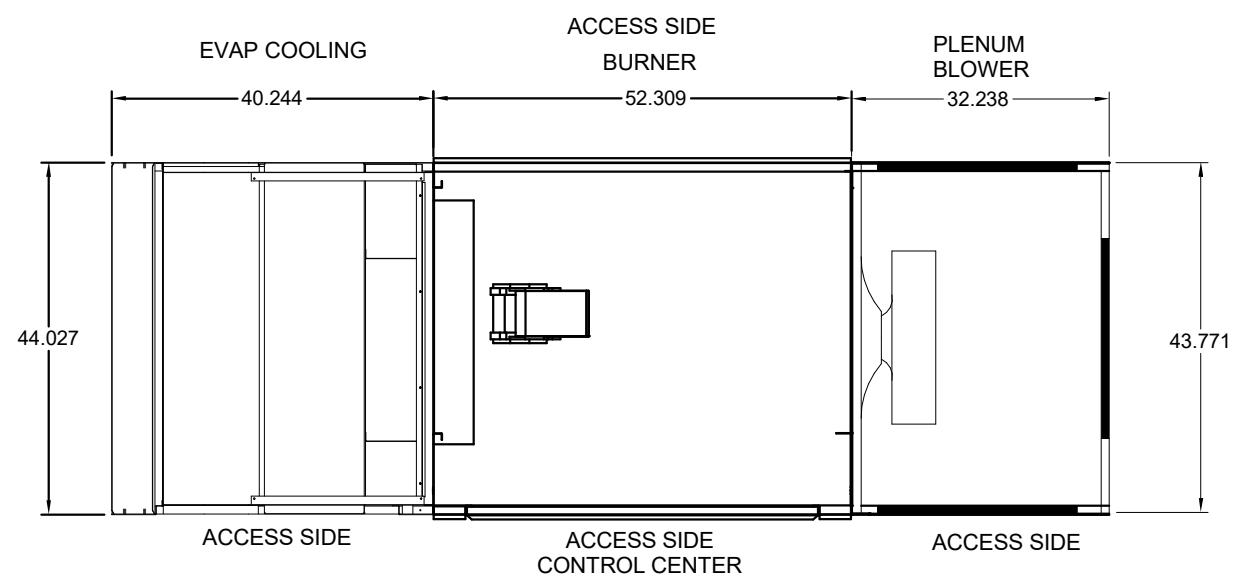
Project Status

M-101

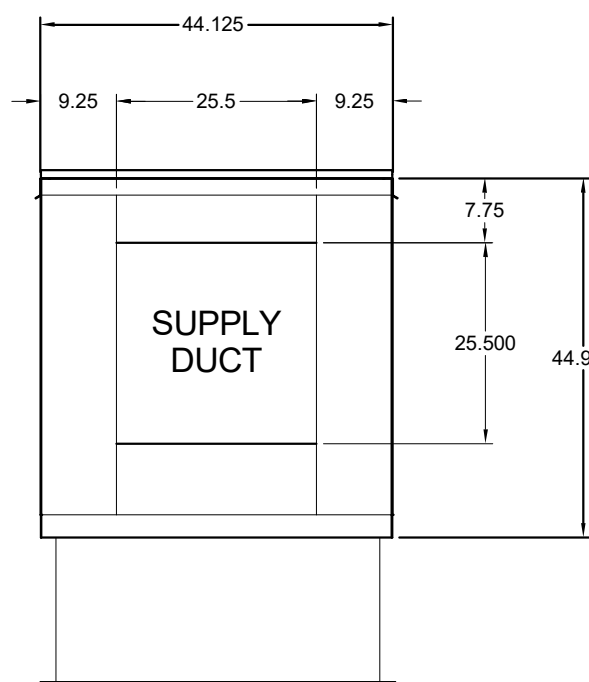


EQUIPMENT SCHEDULE										OPTIONS AND ACCESSORIES									
Tempered Make-Up Air Unit										Mark: MAU-HOOD									
Qty	Greenheck Model	Volume	External SP	Total SP		FRPM	Operating Power		Weight										
1	DGX-112-H22	4,700 CFM	0.93 in. wg	2.268 in. wg		1412	3.89 hp		1,555 lb										
Motor Information																			
Size		V/C/P	Enclosure	Motor with Shaft Grounding	Motor RPM	Windings	MCA		MOP										
5 hp		208/60/3	ODP	No	1725	1	22.8		35										
Heating																			
Type		Gas Type	Temperature			Energy			Connection Gas	Building Gas Pressure	Control Access								
			Winter DB	Max Δ	Max LAT	Input	Output	Efficiency											
Direct Gas		Natural	22.6 F	42.4 F	65.0 F	202.4 MBH	186.2 MBH	92%	3/4"	1/2 PSI	11a								
Cooling																			
Cooling Type		Cooling Media		Summer Bulb		Filters		Cooling Control		Required Flow**									
				Dry	Wet														
Evaporative		GLASdek		100.6 F	70.3 F	2in. Aluminum Mesh		Recirculating Pump		NA									
**Required flow and inlet pressure are for supply line sizing only. They do not represent water usage during normal operation. Consult factory for actual water usage.																			
Outlet Sound Power By Octave Band										LwA		dBA	Sones						
62.5	125	250	500	1000	2000	4000	8000												
96.9	83.4	83.3	85.3	85.5	83.1	82.7	76.6	90.4	79.4	35.4									
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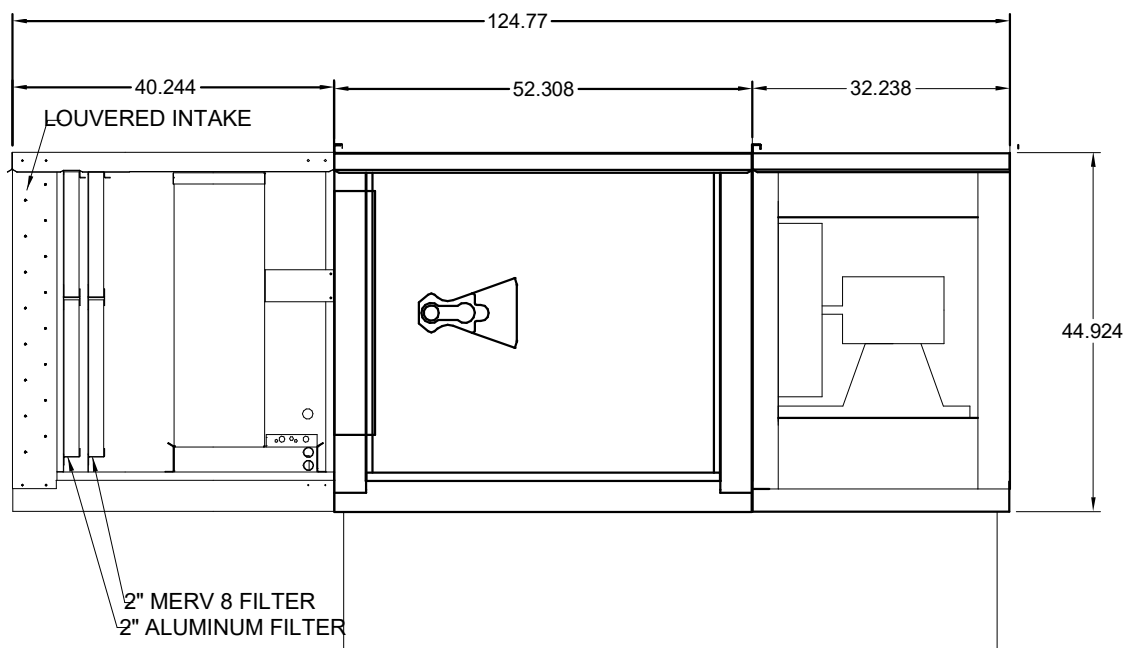




PLAN VIEW



END VIEW



ELEVATION VIEW

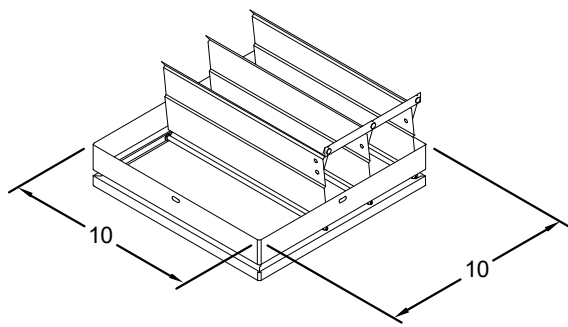
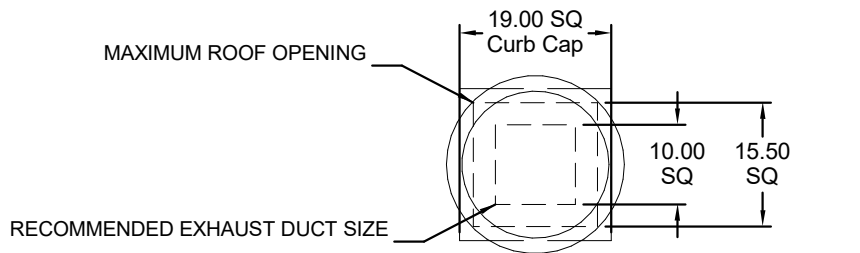
NOTE: Roof Opening Requirements:  
Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.  
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.  
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb.  
This is by design, in order to help alleviate water infiltration issues.

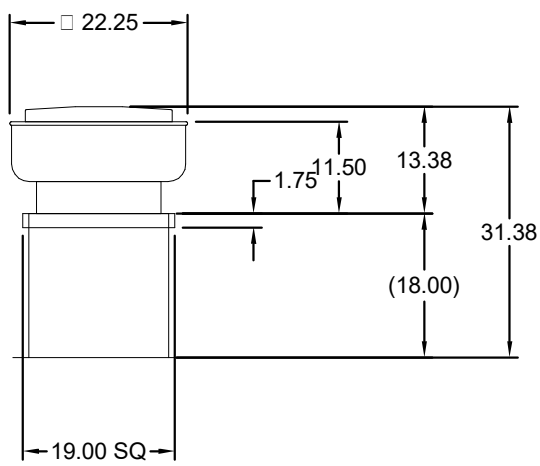
## MAU-HOOD SCHEMATICS

M-103 N.T.S



DAMPER

TYP. SECTION VIEW

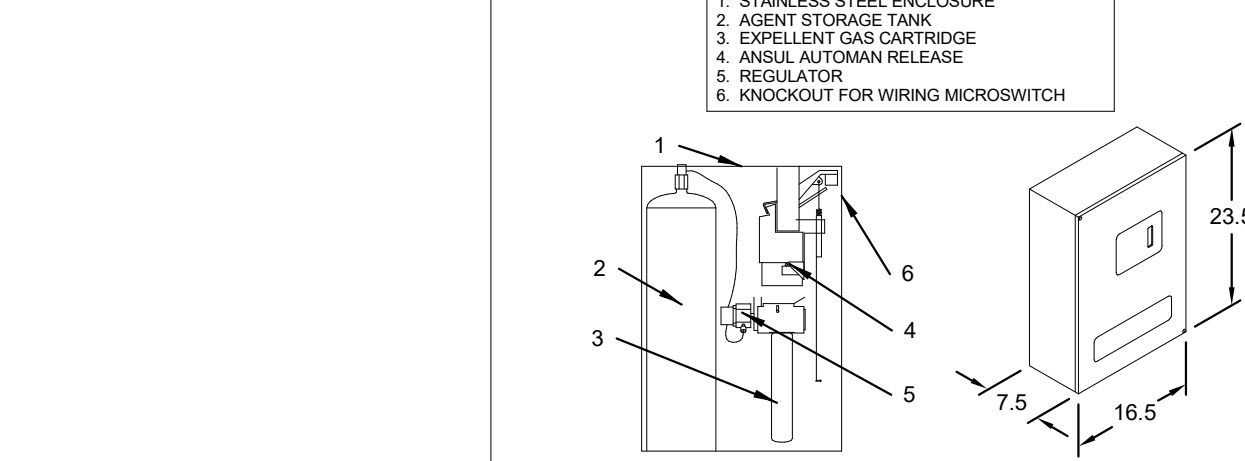


DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.  
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.

## DISHWASHER EXHAUST FAN SCHEMATICS

M-103 N.T.S

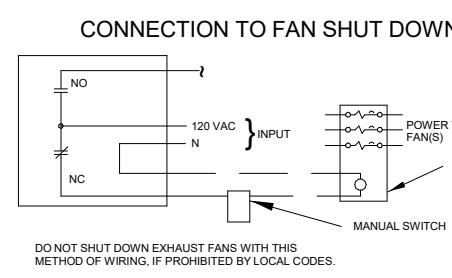
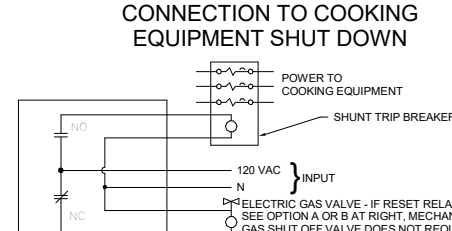
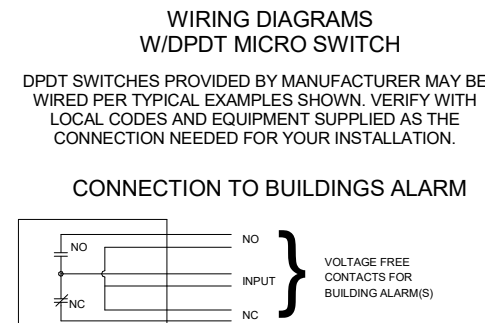


NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.  
-VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.  
-ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.  
-ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60\"/>

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:  
-GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2\"/>

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:  
-FULL DUMP TEST OTHER THAN WHAT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE, PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.  
-MORE THAN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS, NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.  
-SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.  
-INSTALLATION OF GAS SHUT-OFF VALVE.  
-SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE, PLAN EXAMINATION FEES, PE OR PS APPROVAL STAMP, UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOKUP.  
-ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.  
-ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.  
-ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).  
-INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M).  
-PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS, OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THAN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.



NOTES:  
1. ——— DENOTES FIELD INSTALLATION.  
2. ——— DENOTES FACTORY INSTALLATION.  
DO NOT USE BLACK WIRE ON SNAP-APART SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEOUS ALARM, LIGHT CIRCUITS, ETC.

## KH-FIRE SUP DETAILS

M-103 N.T.S

Unit Overview - YSC038G3									
Application	Unit Size	Supply Fan	External Dimensions (in.)			Operating Weight		EER	I EER/SEER Elevation
DX cooling, gas heat	3 Ton (038)	Airflow External Static Pressure 1,000 in H2O	Height	Width	Length	Minimum	Maximum	12.0 EER	14.00 4000.0 ft

Unit Features									
Fresh Air Selection		Econ-dry bulb 0-100% w/ bar relief 3ph							
Hinged Service Access/Filter		Std panel/2 in pld filters MERV 8							

Unit Electrical									
Voltage/phase/hertz		208-230/60/3							
MCA		20.00 A							
MDP		30.00 A							

Controls									
Unit Controls		Electro mechanical controls							

Cooling Section									
Entering Dry Bulb 80.00 F					Capacity				
Entering Wet Bulb 62.00 F					Gross Total 31.17 MBh				
Ambient Temp 105.00 F					Gross Sensible 31.07 MBh				
Leaving Coil Dry Bulb 52.39 F					Net Total 29.20 MBh				
Leaving Coil Wet Bulb 52.26 F					Net Sensible 29.10 MBh				
Leaving Unit Wet Bulb 55.56 F					Fan Motor Heat 1.97 MBh				
Leaving Unit Wet Bulb 53.48 F					Refrig Charge-circuit 1 3.2 lb				
Refrigeration System Options					Leaving Dew Point 52.18 F				

Heating Section									
Heat Type Gas Heat		Heating Stages 2							
Output Heating Capacity 54.43 MBh		Output Heating Capacity with Fan 55.98 MBh							
Heating EAT 64.00 F		Heating LAT 114.20 F							
Heating Temp Rise 50.20 F									

Fan Section									
Indoor Fan Data					Outdoor Fan Data				
Type FC Centrifugal					Type Propeller				
Drive Type Direct					Fan Quantity 1				
Evap Fan FLA 5.70 A					Drive Type Direct				
Indoor Fan Performance					Outdoor Fan Performance				
Airflow 1200 cfm					Condenser Fan FLA 1.10 A				
Design ESP 1.000 in H2O									
Component SP 0.100 in H2O									
Total SP 1.100 in H2O									
Supply Motor Horsepower 0.750 hp									
Indoor Motor Operating Power 0.51 bhp									
Indoor Motor Power 0.38 kW									
Indoor RPM 1081 rpm									

Compressor Section									
Power 2.85 kW		Roof curb yes							
Circuit 1 RLA 10.40 A		Thermostat 3H2C programmable touchscreen							
Circuit 2 RLA 0.00 A		LP conversion kit yes							

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Leaving Coil Dry Bulb 52.39 F					Net Total 29.20 MBh				
Leaving Coil Wet Bulb 52.26 F					Net Sensible 29.10 MBh				
Leaving Unit Wet Bulb 55.56 F					Fan Motor Heat 1.97 MBh				
Leaving Unit Wet Bulb 53.48 F					Refrig Charge-circuit 1 3.2 lb				
Refrigeration System Options					Leaving Dew Point 52.18 F				

Heating Section									
Heat Type Gas Heat		Heating Stages 2							
Output Heating Capacity 54.43 MBh		Output Heating Capacity with Fan 55.98 MBh							
Heating EAT 64.00 F		Heating LAT 114.20 F							
Heating Temp Rise 50.20 F									

6

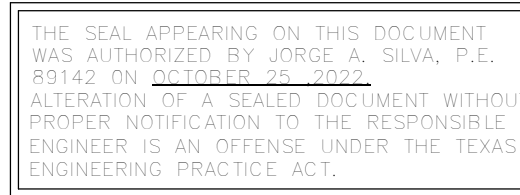
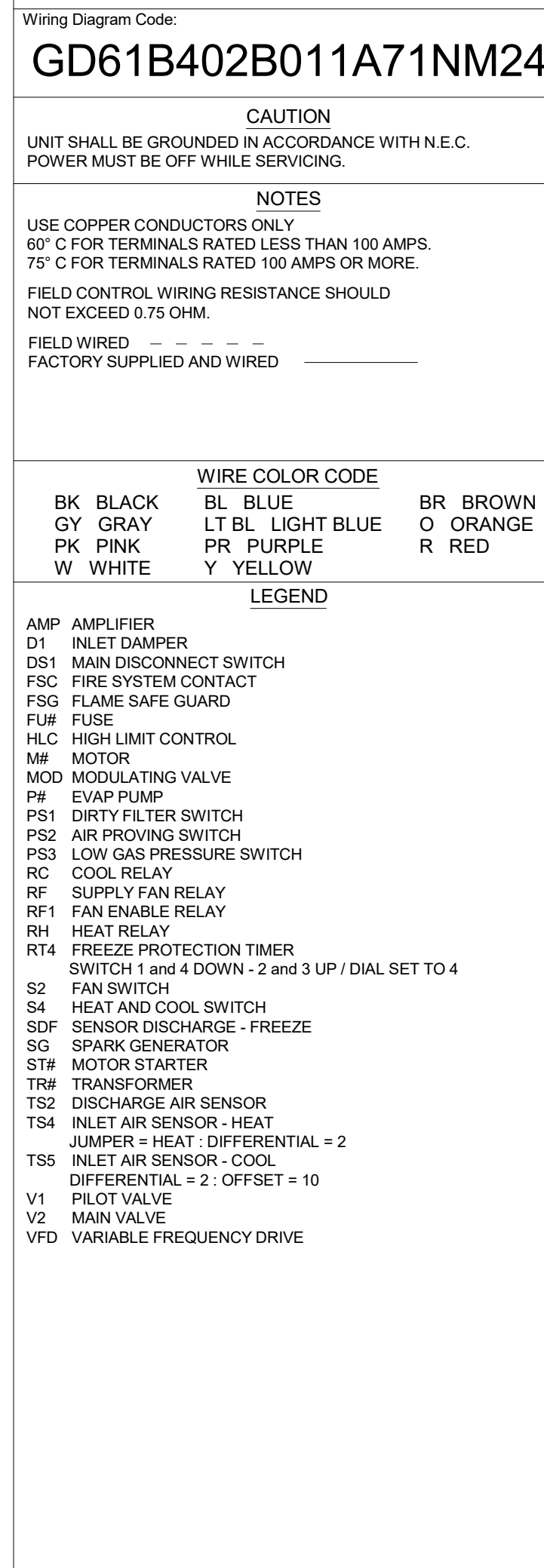
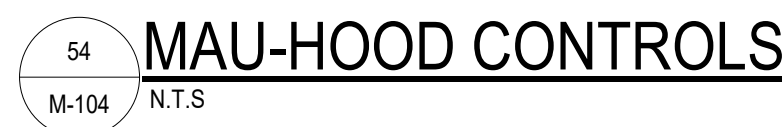
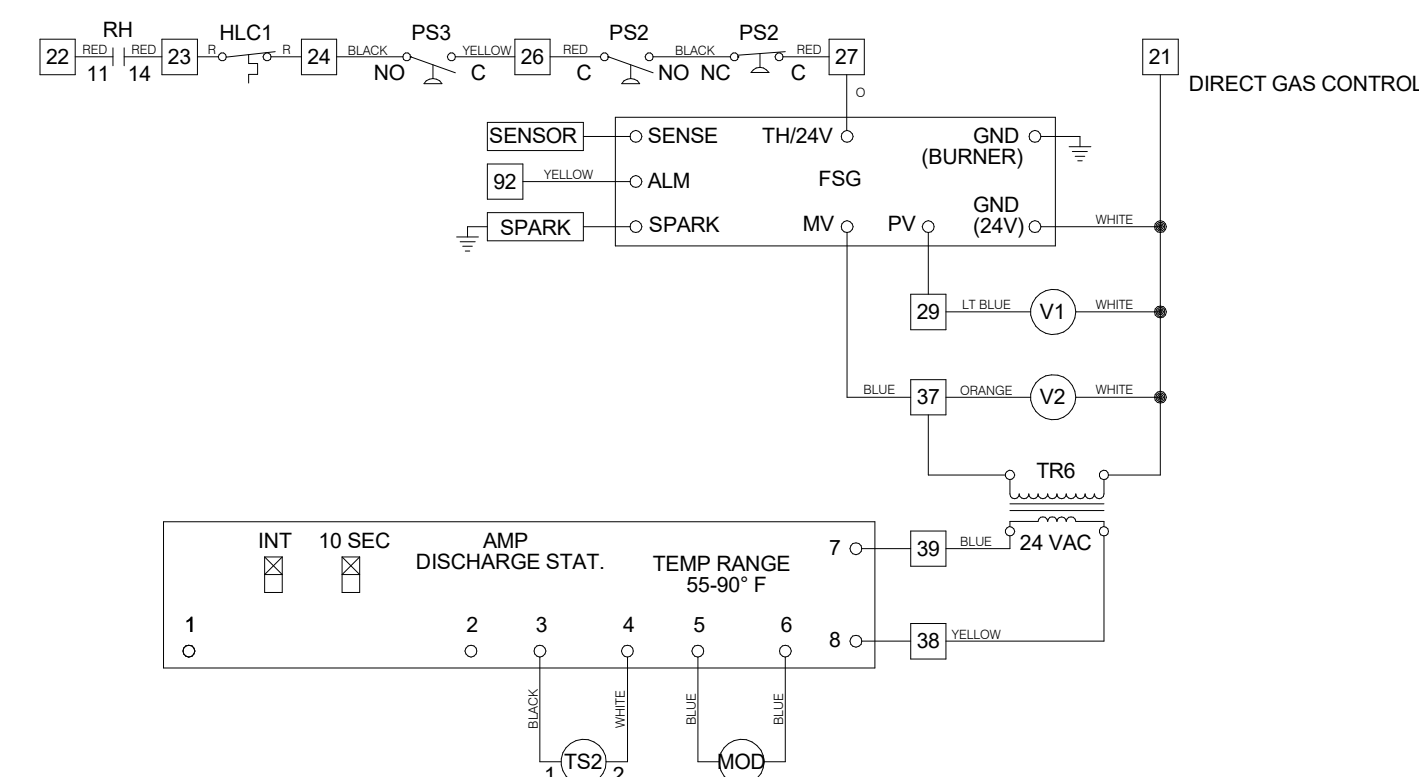
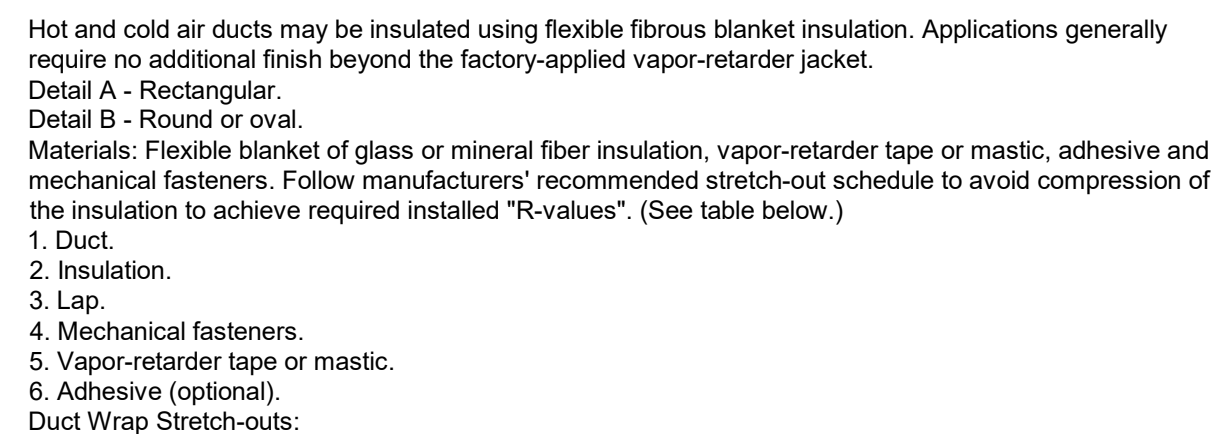
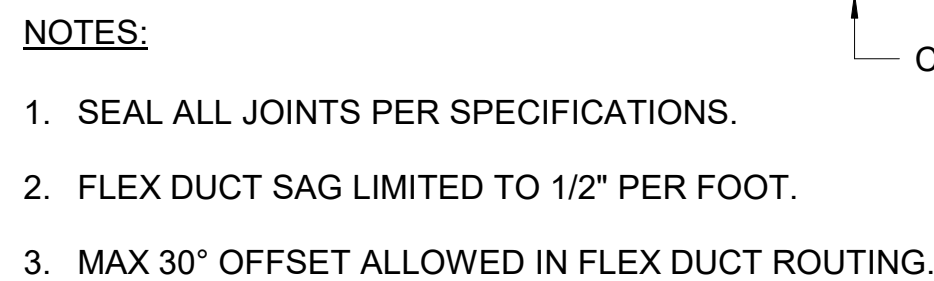
M-103

RTU-PANTRY SUBMITTAL

N.T.S

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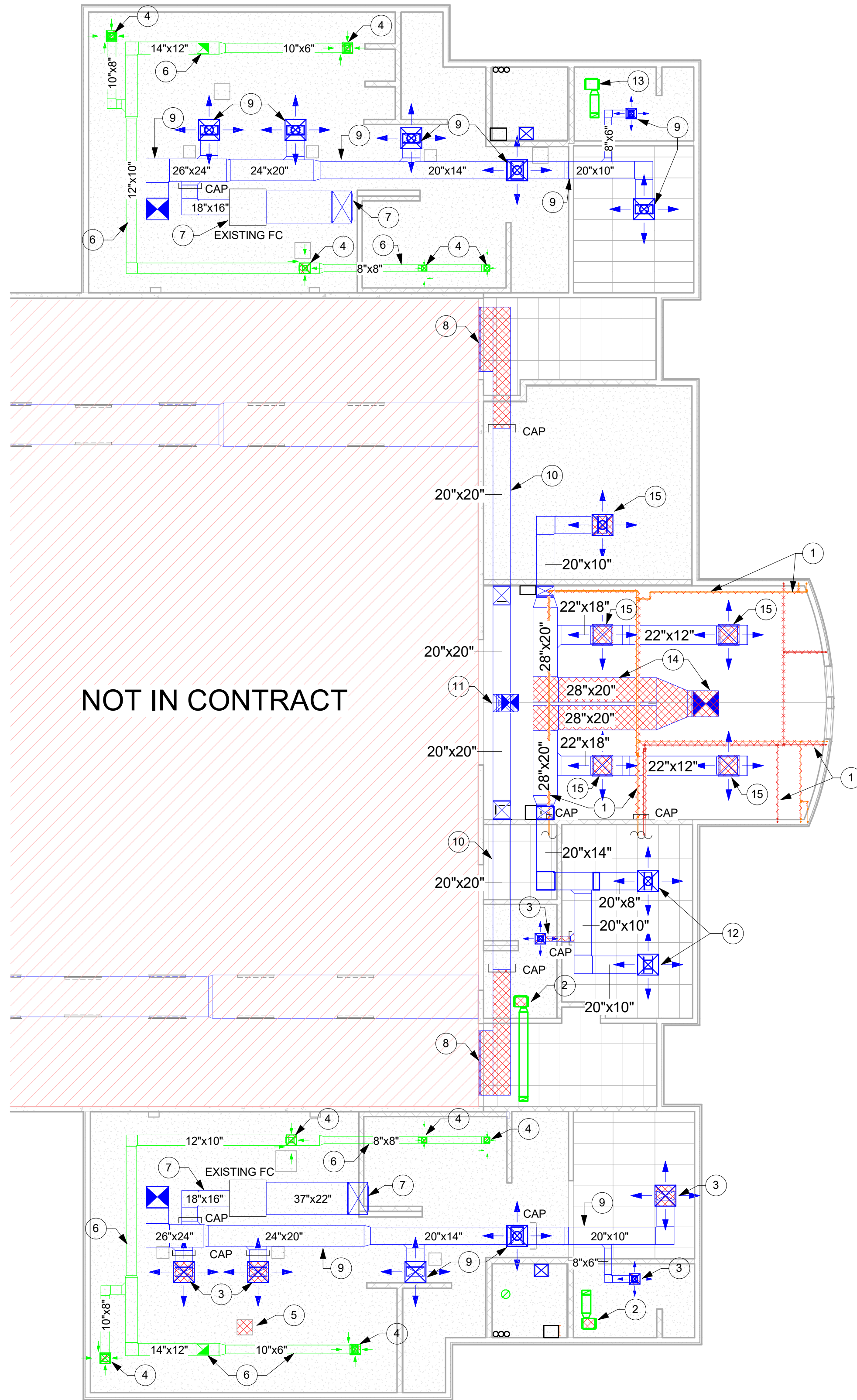
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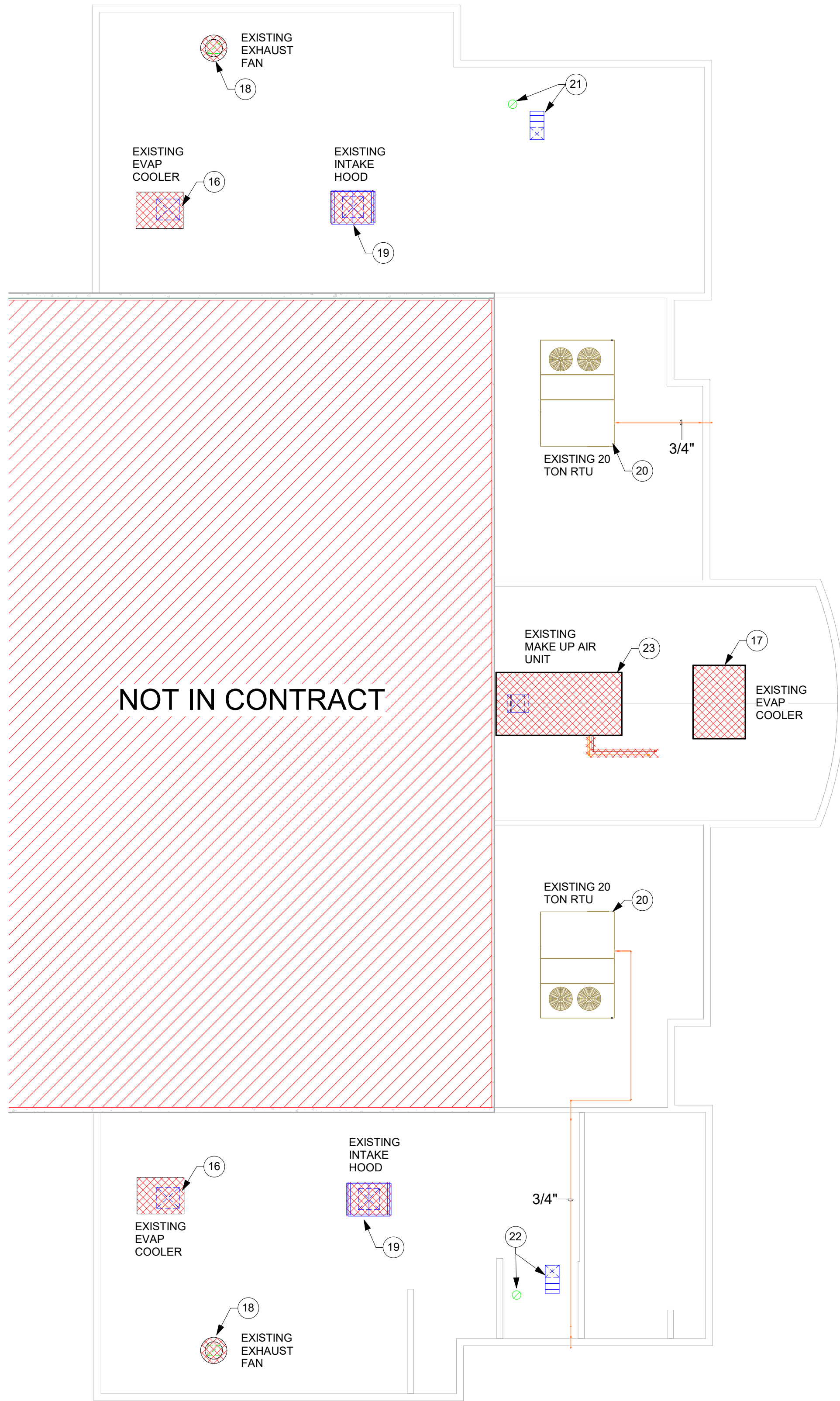
## Project Status

# M-104





1 1ST LEVEL MECHANICAL DEMOLITION PLAN  
M-200 1/8" = 1'-0"



2 ROOF MECHANICAL DEMOLITION PLAN  
M-200 1/8" = 1'-0"

KEYED NOTES

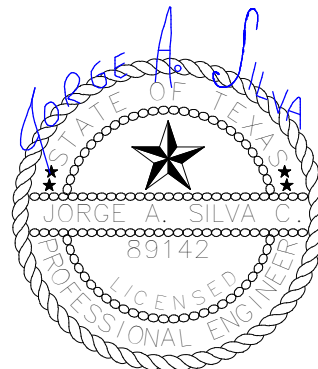
- EXISTING HYDRONIC PIPING SHALL BE REMOVED FROM SITE AND CAPPED BACK TO THE WALL. RISERS TO FIN TUBE HEATERS INSIDE CMU WALL SHALL BE ABANDONED IN PLACE.
- EXISTING EXHAUST FAN SHALL BE REMOVED FROM SITE AND SALVAGED TO THE OWNER. ASSOCIATED DUCT SHALL BE ABANDONED IN PLACE.
- EXISTING CEILING DIFFUSER SHALL BE REMOVED FROM SITE AND SALVAGED TO THE OWNER. PATCH CEILING AS REQUIRED TO MATCH EXISTING.
- EXISTING EXHAUST GRILLE SHALL BE REMOVED FROM SITE AND SALVAGED TO THE OWNER. PATCH CEILING AS REQUIRED TO MATCH EXISTING.
- CEILING ACCESS DOOR SHALL BE REMOVED FROM SITE AND SALVAGED TO OWNER. PATCH CEILING AS REQUIRED TO MATCH EXISTING.
- EXISTING EXHAUST DUCT SHALL BE ABANDONED IN PLACE.
- EXISTING FAN COIL UNIT AND ASSOCIATED DUCTWORK SHALL BE ABANDONED IN PLACE. FAN COIL SUPPLY DUCTWORK SHALL BE CAPPED BACK TO MAIN DUCT.
- CAP DUCT AND SEAL AIR TIGHT. EXISTING SIDEWALL SUPPLY GRILLES SHALL BE REMOVED FROM SITE. PATCH WALL AS REQUIRED TO MATCH EXISTING.
- EXISTING SUPPLY DUCT AND DIFFUSERS SHALL REMAIN UNDISTURBED TO SERVE NEW RTU.
- EXISTING MAKE UP AIR UNIT SUPPLY DUCT SHALL REMAIN TO SERVE NEW KITCHEN-RTU AS RETURN DUCT.
- EXISTING ROOF PENETRATION SHALL REMAIN TO SERVE NEW KITCHEN-RTU RETURN RISER.
- EXISTING SUPPLY DIFFUSER SHALL REMAIN. RE-ARRANGE DIFFUSER TO MATCH NEW CEILING.
- EXISTING EXHAUST FAN SHALL REMAIN UNDISTURBED.
- EXISTING SUPPLY DUCT SHALL BE REMOVED FROM SITE. ROOF PENETRATION SHALL REMAIN TO SERVE NEW MAKE UP AIR UNIT SUPPLY DUCT.
- SUPPLY DUCT SHALL REMAIN. DIFFUSERS AND RISER CONNECTIONS TO DUCT SHALL BE REMOVED.
- EXISTING EVAPORATOR COOLER SHALL BE REMOVED FROM SITE AND SALVAGED TO OWNER. ROOF PENETRATION AND DUCTWORK SHALL BE REUSED FOR NEW RTU.
- EXISTING EVAPORATOR COOLER SHALL BE REMOVED FROM SITE AND SALVAGED TO OWNER. ROOF PENETRATION AND DUCTWORK SHALL BE REUSED FOR NEW MAKE UP AIR UNIT SERVING KITCHEN.
- EXISTING EXHAUST FAN SHALL BE REMOVED FROM SITE AND SALVAGED TO OWNER. ROOF CURB SHALL REMAIN. SEAL AND COVER ROOF CURB OPENING.
- EXISTING INTAKE HOOD SHALL BE REMOVED FROM SITE AND SALVAGED TO OWNER. ROOF CURB SHALL REMAIN. SEAL AND COVER ROOF CURB OPENING.
- EXISTING RTU SHALL REMAIN UNDISTURBED.
- EXISTING BOILER INTAKE AND FLUE VENT SHALL BE ABANDONED IN PLACE.
- EXISTING BOILER INTAKE AND FLUE VENT SHALL BE REUSED BY NEW WATER HEATER.
- EXISTING MAKE UP AIR UNIT SHALL BE REMOVED FROM SITE AND SALVAGED TO THE OWNER. SUPPLY DUCT AND ROOF PENETRATION SHALL REMAIN TO SERVE NEW KITCHEN RTU RETURN. ASSOCIATED HYDRONIC PIPING SHALL BE REMOVED, PATCH PIPING PENETRATIONS ON ROOF AS REQUIRED TO MATCH EXISTING.

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PROJECT NO: 2022-16  
ISSUED: 10/24/2022

REVISION SCHEDULE:

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300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

MECHANICAL DEMOLITION PLAN

Project Status

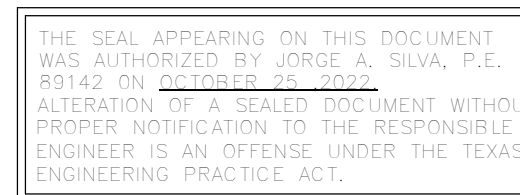
M-200



1. CONNECT TWO EXISTING SUPPLY DUCTS WITH SAME SIZE 28X20 DUCT.
2. RE USE EXISTING 20X20 DUCT FOR RTU-KITCHEN RETURN. USE SAME ROOF PENETRATION FOR RISER.
3. RE USE EXISTING ROOF PENETRATION FOR NEW MAKE UP AIR UNIT.
4. CONNECT NEW EF-DISH DUCTWORK TO DISHWASHER VENT STACKS.
5. RELOCATE EXISTING DIFFUSERS UNDER SUPPLY DUCT. PROVIDE NEW 10" CONICAL TAP AND FLEXIBLE DUCT. BALANCE TO REQUIRED AIRFLOW.
6. BALANCE SUPPLY DIFFUSERS TO LISTED AIRFLOW. ADJUST AS NECESSARY TO FIT NEW CEILING.
7. PROVIDE AND INSTALL UNION AND DIRT LEG PRIOR TO MAKING CONNECTION TO GAS FIRED APPLIANCE.
8. PROVIDE AND INSTALL ADJUSTABLE ROLLER NON PENETRATING PIPE SUPPORT SIMILAR TO MAPA AT 8' O.C.
9. 3/4" CONDENSATE DRAIN LINE GOES DOWN THROUGH THE ROOF. FOR CONTINUATION SEE WASTE AND VENT PLAN. PROVIDE LINE WITH P-TRAPS AS INDICATED ON SCHEMATIC PLANS.
10. 1/2" COLD WATER LINE DOWN THROUGH THE ROOF. FOR CONTINUATION REFER TO HOT AND COLD WATER PLAN. CONNECT LINE TO MAKE UP AIR UNIT EVAPORATIVE MODULE. PROVIDE ISOLATION BALL VALVE. REFER TO EVAPORATIVE COOLER WATER SUPPLY/DRAIN SCHEMATIC.
11. 3/4" DRAIN LINE FROM EVAPORATIVE COOLER GOES DOWN THROUGH THE ROOF. FOR CONTINUATION SEE WASTE AND VENT PLAN.
12. CONNECT NEW GAS LINE SERVING RTU TO EXISTING 3/4" GAS LINE ON ROOF.
13. EXTEND DUCT UP THRU THE ROOF. WEATHERPROOF AS PER ROOFING MANUFACTURERS RECOMMENDATIONS.
14. DUCT TO HOOD JUNT SHALL COMPLY WITH IMC CODE 506.3.2. PROVIDE TWO LAYERS OF 3M FIRE DUCTWRAP FROM HOOD DUCT COLLAR TO BOTTOM OF ROOF DECK. SLOPE DUCTWORK 1/4" TOWARDS HOOD AS PER 2015 IMC AND PROVIDE 16X16 ACCESS DOOR AT BOTTOM OF EXHAUST PLenum.
15. CONNECT CONICAL TAP AND FLEXIBLE DUCT TO EXISTING SUPPLY MAIN. EXTEND A MAXIMUM OF 5' FLEX DUCT TO SERVE NEW SUPPLY DIFFUSER.
16. INSTALL NEW KITCHEN HOOD CONTROL PANEL 5" A.F.F.



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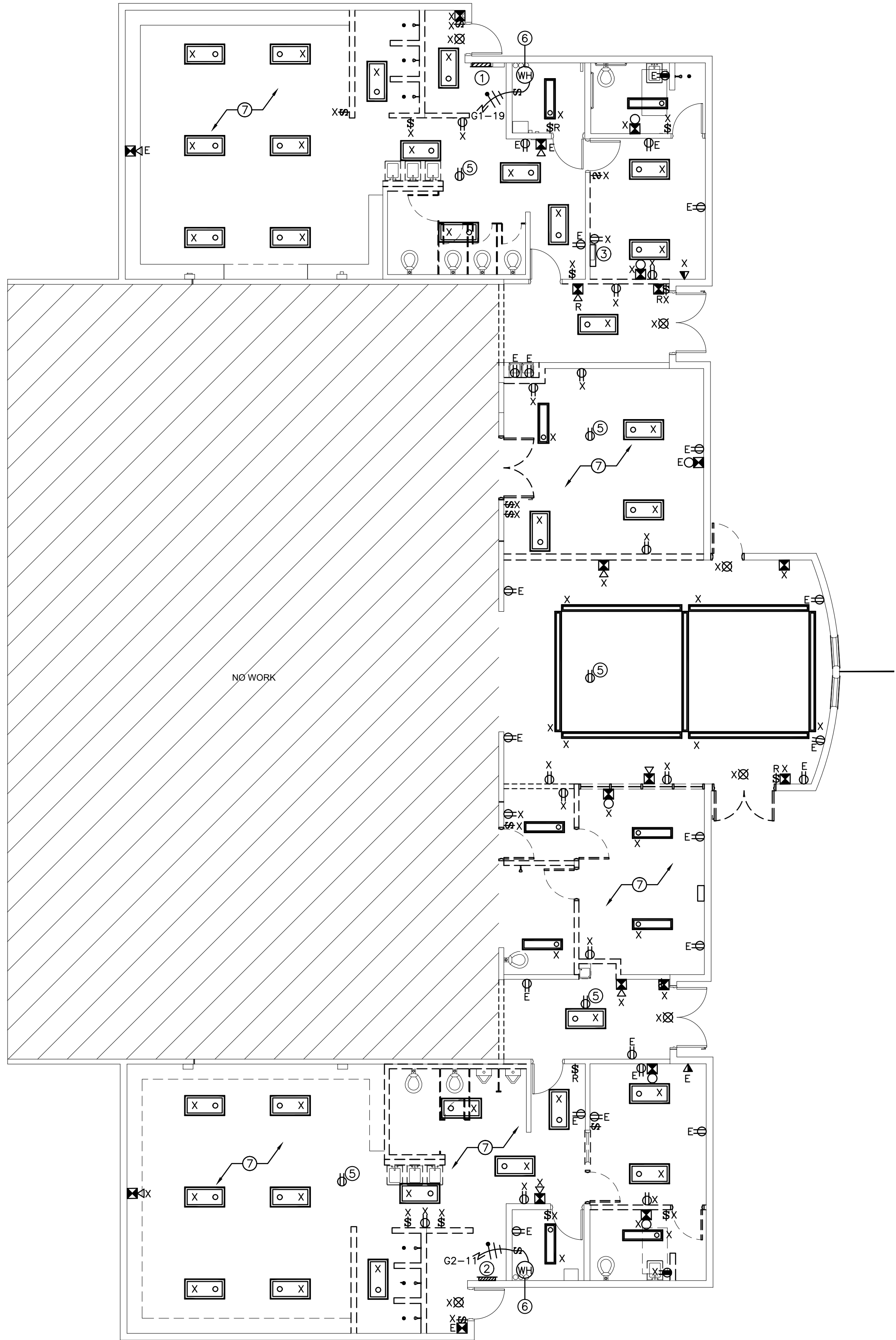
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SHEET TITLE:

## Project Status

# M-300





KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING 225A 120/208V, 3 PH, 4 WIRE PANELBOARD 'G1' TO BE REPLACED WITH NEW 225A, 120/208V, 3PH 4 WIRE PANELBOARD 'G1' SEE NEW PANEL SCHEDULE ON SHEET E4.0.
- 2 APPROXIMATE LOCATION OF EXISTING 225A 277/480V, 3 PH, 4 WIRE PANELBOARD 'G2' TO BE REPLACED WITH NEW 225A, 120/208V, 3PH 4 WIRE PANELBOARD 'G2' SEE NEW PANEL SCHEDULE ON SHEET E4.0.
- 3 APPROXIMATE LOCATION OF SECURITY CABINET TO REMAIN.
- 4 APPROXIMATE LOCATION OF EXISTING FIRE ALARM CONTROL PANEL ON GYM ELECTRICAL ROOM
- 5 EXISTING ROOF GFI, WP ROOF TOP OUTLETS TO REMAIN.
- 6 EXISTING WATER HEATER AND ASSOCIATED EQUIPMENT TO BE REPLACED WITH NEW. CONTRACTOR TO RE-USE EXISTING CIRCUIT AS NOTED. MAKE CONNECTIONS AS NECESSARY.
- 7 ALL EXISTING FIXTURES TO BE REMOVED. CONTRACTOR TO MAINTAIN EXISTING LIGHT CIRCUIT FOR NEW FIXTURES.

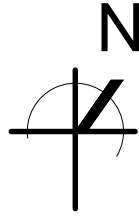
ELECTRICAL DEMOLITION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE TO BE REMOVED.
	EXISTING EXIT LIGHT FIXTURE TO BE REMOVED.
	EXISTING EMERGENCY LIGHT FIXTURE TO BE REMOVED.
	EXISTING SINGLE POLE WALL SWITCH TO BE REMOVED.
	EXISTING THREE-WAY WALL SWITCH TO BE REMOVED.
	EXISTING JUNCTION BOX TO BE REMOVED.
	EXISTING DUPLEX OUTLET. NO WORK REQUIRED.
	EXISTING DUPLEX OUTLET TO BE REMOVED.
	EXISTING QUADRUPEX RECEPTACLE TO BE REMOVED.
	EXISTING DATA/TEL. SYSTEM OUTLET. NO WORK REQUIRED.
	EXISTING DATA/TEL. SYSTEM OUTLET TO BE REMOVED.
	RELOCATED QUADRUPEX RECEPTACLE, CONNECT TO EXISTING CIRCUIT
	EXISTING SPEAKER TO REMAIN, EXTEND EXISTING P.A. ZONE AS REQUIRED
	EXISTING SPEAKER TO BE REMOVED.
	EXISTING F.A. SMOKE DETECTOR TO BE REMOVED EXTEND EXISTING ZONE AS REQUIRED.
	EXISTING F.A. HORN/STROBE TO BE RELOCATED, EXTEND EXISTING F.A. ZONE AS REQUIRED.
	EXISTING F.A. HORN/STROBE TO BE REMOVED.
	EXISTING F.A. PULLSTATION TO BE RELOCATED, EXTEND EXISTING F.A. ZONE AS REQUIRED
	EXISTING F.A. PULLSTATION TO BE REMOVED.
	EXISTING FIRE ALARM CONTROL PANEL
	DISCONNECT, TO BE NEMA 3R IF INSTALLED OUTDOORS.
	EXISTING PANELBOARD TO REMAIN. NO WORK REQUIRED UNLESS NOTED.

DEMOLITION GENERAL NOTES:

- A. CONTRACTOR MUST VISIT SITE BEFORE BIDDING ON THIS PROJECT. VERIFY ALL DEVICES BEING REMOVED ONLY IN THE AREAS THAT ARE TO BE RENOVATED. CONTRACTOR MUST COORDINATE WITH ARCHITECTURAL PLANS AND OWNER FOR EXTENT OF DEMOLITION.
- B. CONTRACTOR TO REMOVE ALL ELECTRICAL DEVICES ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED. COORDINATE WITH MECHANICAL PLANS FOR EXTENT OF HVAC DEMOLITION. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE AND UPDATE PANEL DIRECTORY AS REQUIRED.
- C. CONTRACTOR TO MAINTAIN CIRCUIT CONTINUITY FOR ALL DEVICES OUT OF DEMOLITION WORK. CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY MATERIALS TO MAINTAIN CIRCUIT CONTINUITY FOR REMAINING DEVICES. PROVIDE TYPED CIRCUIT DIRECTORY WITH ALL UPDATED CIRCUITING.
- D. CONTRACTOR IS TO DISPOSE ALL MATERIALS ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.
- E. EXISTING LIGHTING CIRCUITS TO REMAIN FOR REUSE. CONTRACTOR TO EXTEND EXISTING CONDUIT AND CIRCUITS AS NECESSARY TO RECONNECT RELOCATED LIGHT FIXTURES, OR NEW LIGHT FIXTURES.
- F. CONTRACTOR MUST COORDINATE WITH ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION TO AVOID CONFLICTS WITH THE NEW WORK.

01 ELECTRICAL DEMOLITION PLAN

1/8" = 1'-0"



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DRAWN BY: A.P/A.E/E  
PROJECT NO: 2022-16  
ISSUED: SEPTEMBER 30, 2022

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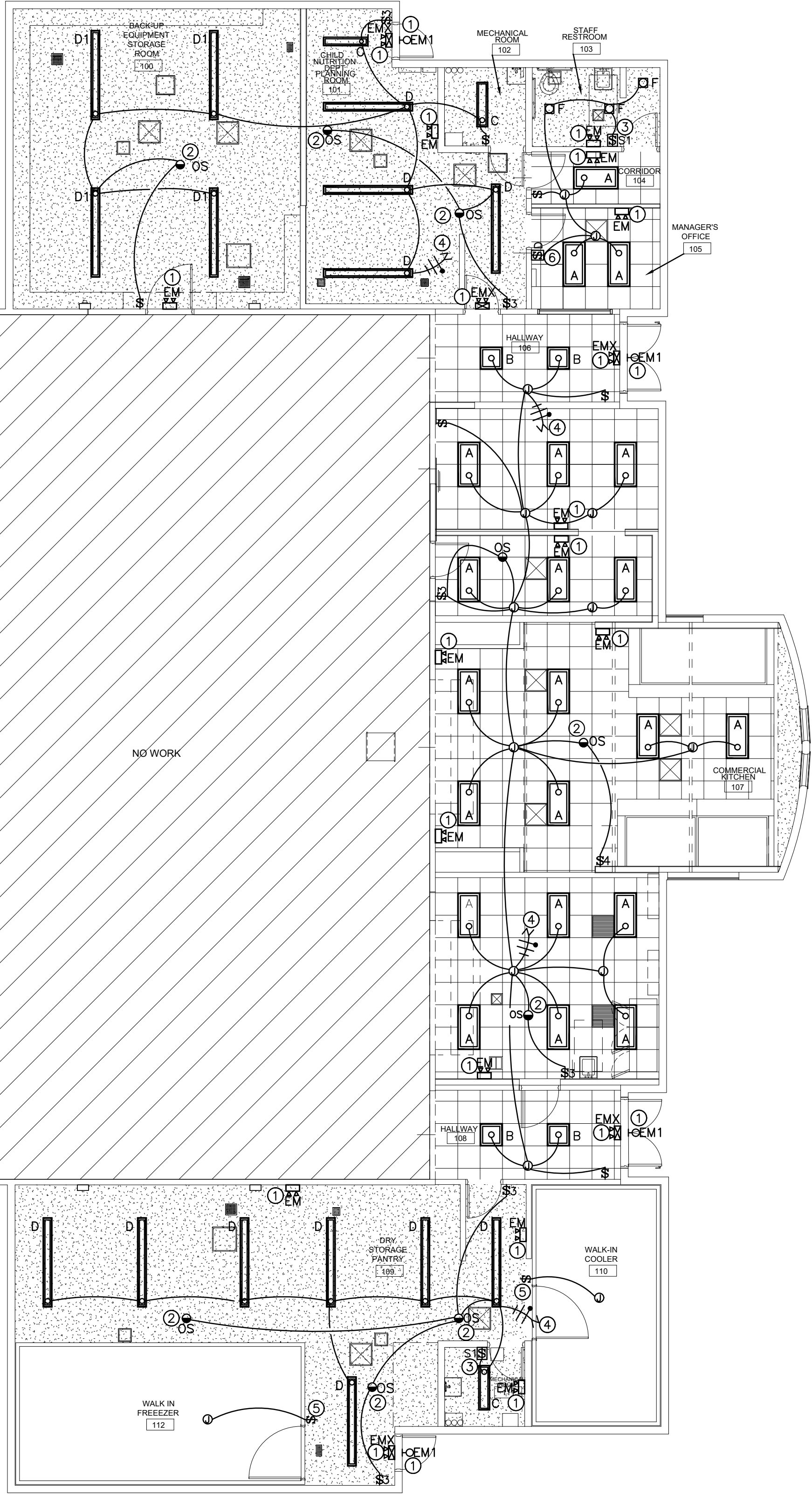
SHEET TITLE:  
ELECTRICAL DEMOLITION PLAN

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ENGINEERING CONSULTANTS  
1818 E. RIO GRANDE • EL PASO, TEXAS 79902  
TEL. (915) 838-9900 • FAX. (915) 838-9909  
REGISTRATION # F005236

SCHEMATIC DESIGN

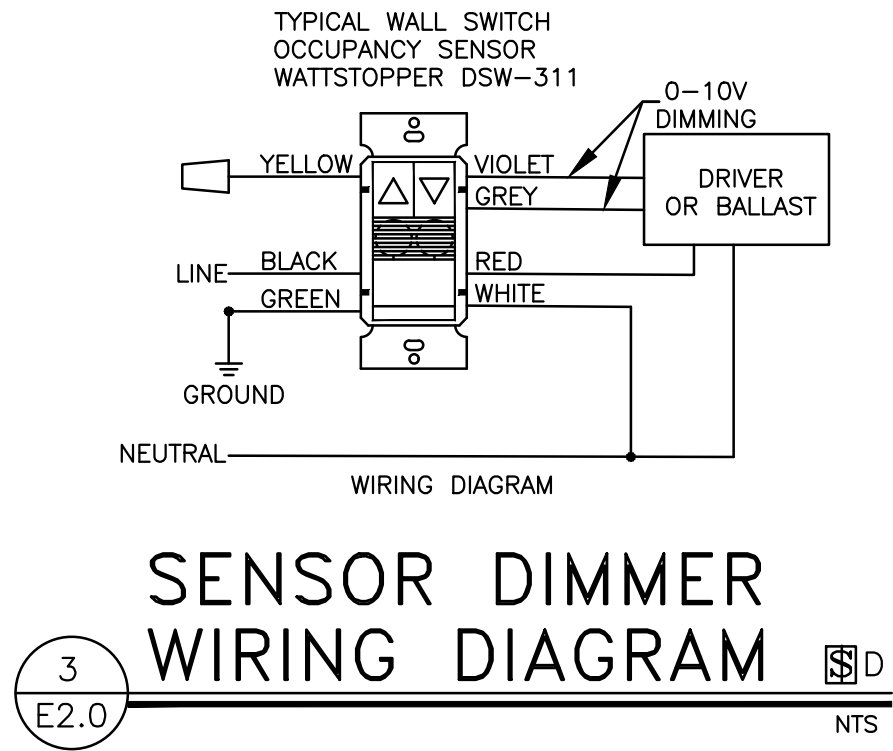
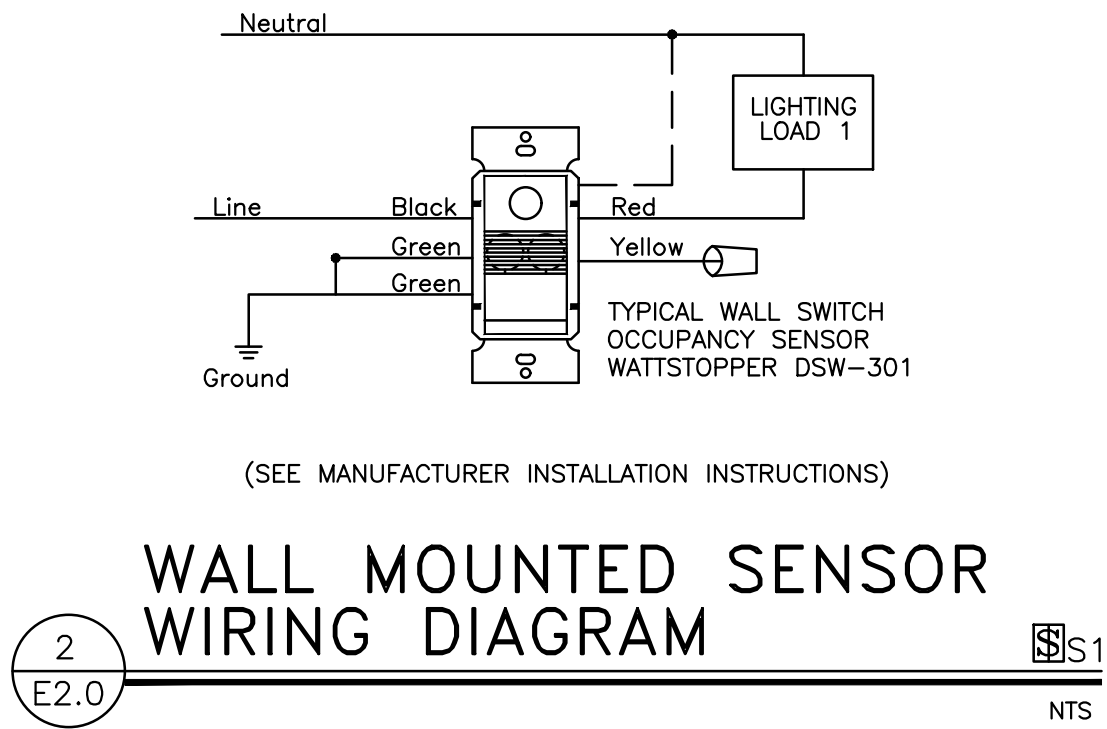
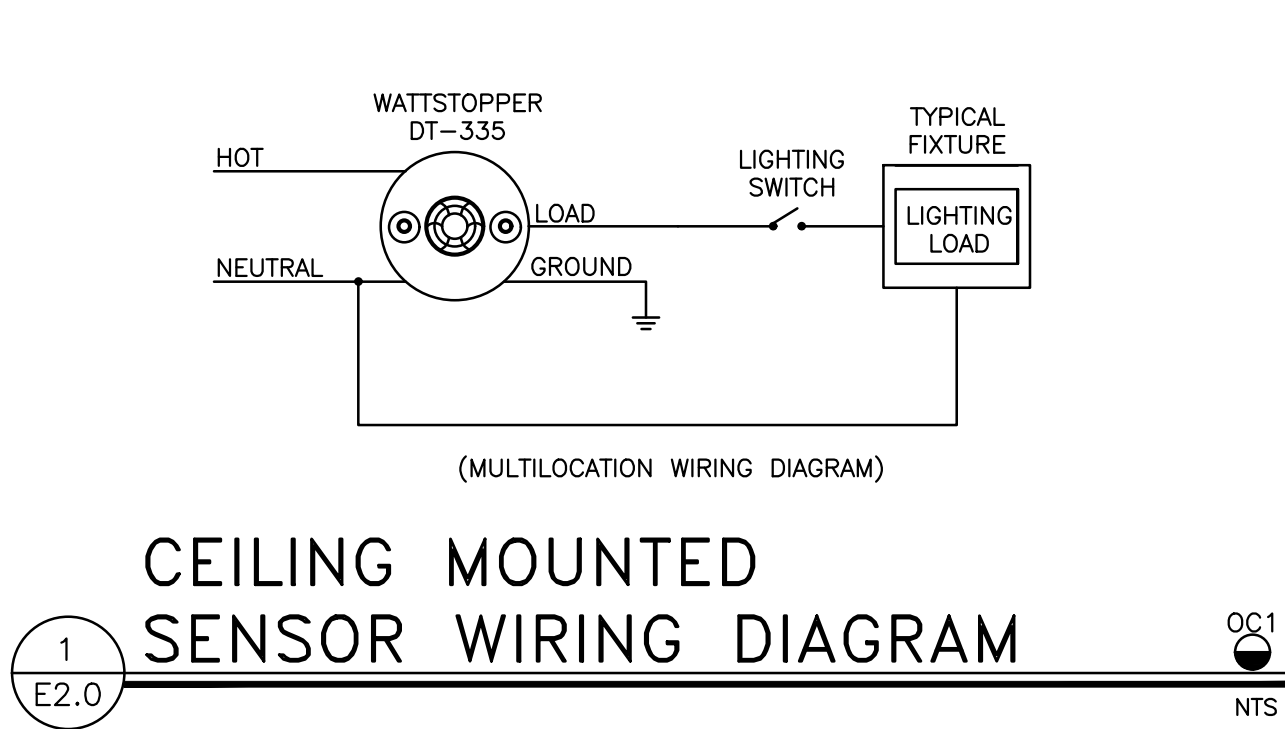
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FIXTURE SCHEDULE				
TYPE	DESCRIPTION & MFR. CAT. No.	LAMPS & WATTS	MOUNTING	NOTES
A	METALUMEN TC5-2L35K-24-PCB24-W-L2	30W LED	RECESSED GRID CEILING	
B	METALUMEN TC5-2L35K-22-PCB24-W-L2	25W LED	RECESSED GRID CEILING	
C	WILLIAMS LIGHTING 75S-4-L50-840-DIM-UNV	34W LED	SURFACE	
D	WILLIAMS LIGHTING 75S-8-L60-840-DIM-UNV	35W LED	SURFACE	
D1	WILLIAMS LIGHTING 75S-8-L100-840-DIM-UNV	65W LED	SURFACE	
F	WILLIAMS LIGHTING 6DS-L20-835-DIM-UNV-L-W-OFF-WH	22W LED	SURFACE	
EM1	CHLORIDE PLACEMBZ	LED INCLUDED	WALL	
EMX	CHLORIDE VERWEM	LED INCLUDED	WALL/CEILING	
X1	CHLORIDE VERW	LED INCLUDED	WALL/CEILING	

LIGHTING CONTROLS LEGEND		
DEVICE	MODEL	DESCRIPTION
	DSW-301 OR EQUAL	WATTSTOPPER SENSOR WALL SWITCH DUAL TECHNOLOGY, SELF POWERED, ONE SWITCH, 48" TO TOP OF BOX
	DT-355 OR EQUAL	WATTSTOPPER CEILING MOUNTED DUAL-TECHNOLOGY, 1000 SQ FT, LINE VOLTAGE
	DIMMER SWITCH LUTRON DIVA DVSTV-I, 48" TO TOP OF BOX	
NOTES:		
1. All sensor locations are approximate, refer to manufacturers installation instructions prior to installation.		
2. Ultrasonic ceiling mount sensors should be located a minimum of six feet from HVAC supply/return vents.		
3. Contractor is responsible for proper sensitivity & time delay settings (for non-adaptive products), recommended placement, and field verification of circuits with respect to power placement.		
4. Sensors mounted over the door must be placed one foot inside the threshold.		
5. Contractor is responsible for ensuring that the sensor bill of materials complies with the sensor design and layout specifications.		
6. Contractor is responsible for installing equipment in compliance with local code.		
7. All sensors to be set to turn off lighting after 15 minutes of no motion sensing.		
8. Wall mounted occupancy sensors must not be installed behind doors.		
9. Contractor may connect low voltage system in daisy chain to minimize LV cable runs.		
10. Dimmer switches must be installed in individual boxes.		
11. Dimmer switches must be light fixture compatible. Verify compatibility with light fixture manufacturers.		



## 01 POWER PLAN

1/8" = 1'-0"

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DRAWN BY: A.P/A.E/E  
PROJECT NO: 2022-16  
ISSUED: SEPTEMBER 30, 2022

REVISION SCHEDULE:

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SHEET TITLE:

LIGHTING PLAN

## KEYED NOTES:

- ALL EXIT SIGNS, EMERGENCY LIGHTS, OR BATTERY BACKUPS MUST BE CONNECTED TO THE UN-SWITCHED HOT CONDUCTOR SERVING THIS AREA.
- PROVIDE AND INSTALL CEILING MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE, OCCUPANCY SENSOR WATTSTOPPER MODEL DT-355 OR EQUAL APPROVED BY ENGINEER. PROGRAM SENSOR FOR AUTO-OFF FUNCTION ONLY. AUTO-OFF FUNCTION TO BE SET TO TURN OFF ALL LIGHTS IN THIS ROOM AFTER 15 MIN. OF NO MOTION SENSING. SEE DETAIL 1/E2.0.
- PROVIDE AND INSTALL WALL MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE, OCCUPANCY SENSOR WATTSTOPPER MODEL DSW-301 OR EQUAL APPROVED BY ENGINEER. PROGRAM SENSOR FOR AUTO-ON/AUTO-OFF FUNCTION. AUTO-OFF FUNCTION TO BE SET TO TURN OFF ALL LIGHTS IN THIS ROOM AFTER 15 MIN. OF NO MOTION SENSING. SEE DETAIL 2/E2.0.
- CONTRACTOR TO CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT MAINTAINED DURING DEMOLITION. EXTEND EXISTING CIRCUIT AND CONDUIT AS NECESSARY TO MAKE RECONNECTIONS.
- PROVIDE AND INSTALL SWITCH FOR WALK-IN COOLER/FREEZER LIGHT. CONTRACTOR TO MAKE CONNECTIONS TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA.
- PROVIDE AND INSTALL WALL MOUNTED OCCUPANCY DIMMING SENSOR DUAL TECHNOLOGY WATTSTOPPER DW-311 OR EQUAL. SENSOR TO BE SET FOR AUTO-ON/AUTO-OFF FUNCTION. AUTO-ON FUNCTION TO BE SET TO TURN ON ONLY 50% OF EACH LIGHT FIXTURE. AUTO-OFF FUNCTION TO BE SET TO TURN OFF LIGHTS AFTER 15 MIN. OF NO MOTION SENSING. REFER TO DETAIL 3/E2.0.

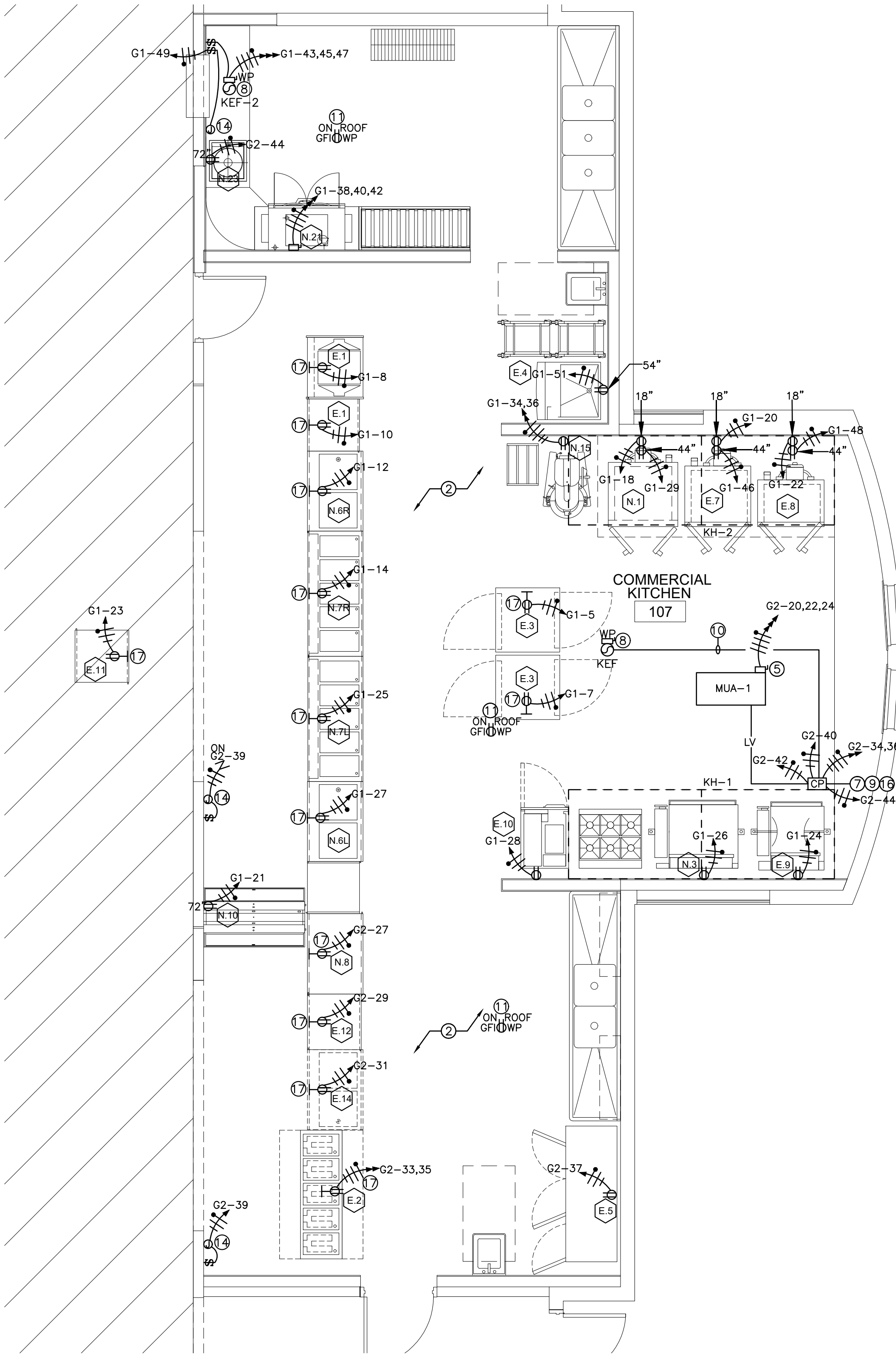
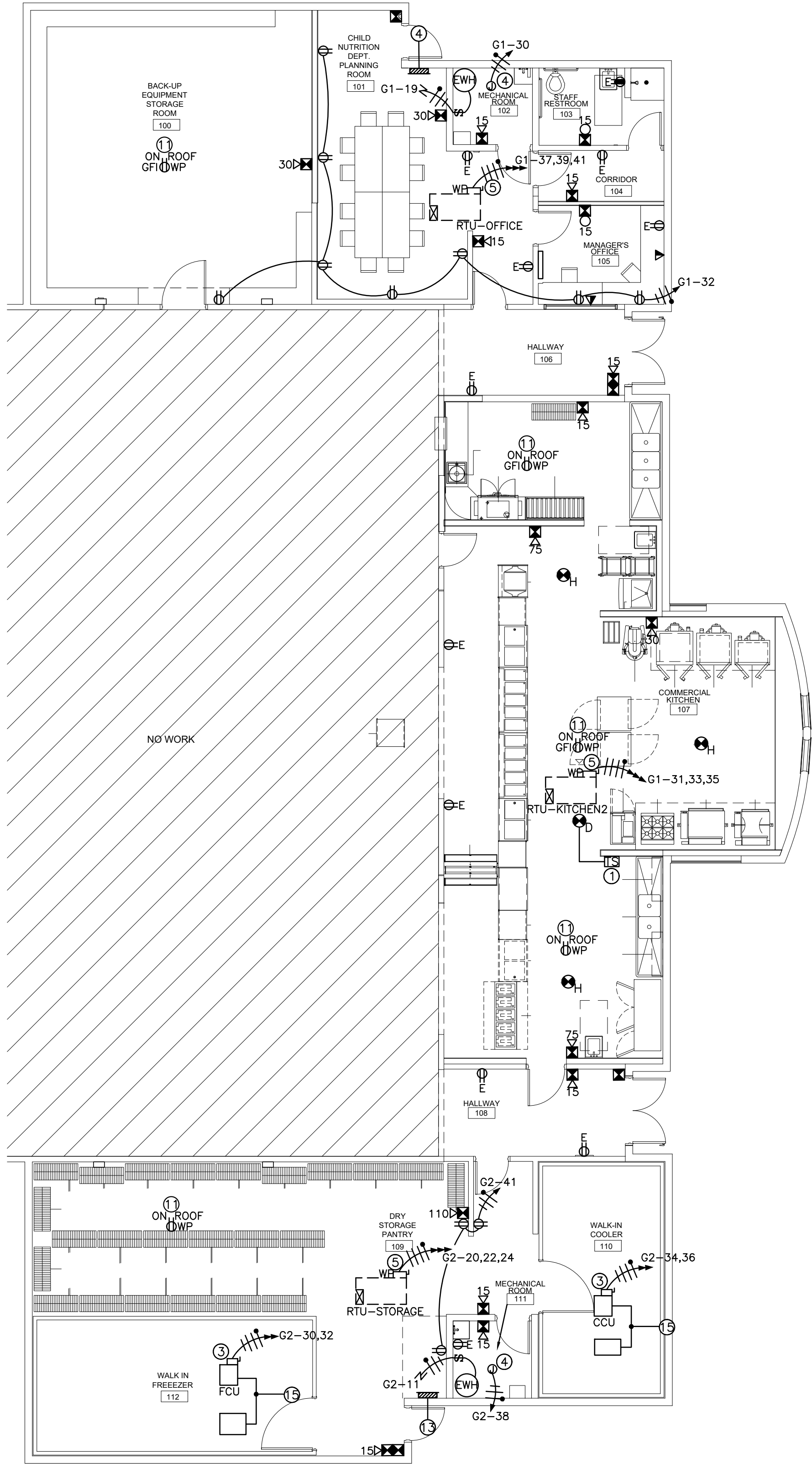


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REGISTRATION # F005236

SCHEMATIC DESIGN

E2.0





KEYED NOTES:

- 1 PROVIDE AND INSTALL J-BOX AT 44" A.F.F. FOR DUCT SMOKE DETECTOR TEST SWITCH. COORDINATE WITH MECHANICAL PLANS FOR EXACT LOCATION AND INTERCONNECTION REQUIREMENTS. MAKE CONNECTIONS TO EXISTING FIRE ALARM CONTROL PANEL.
- 2 ALL 120V, RECEPTACLES IN KITCHEN TO BE MOUNTED AT 24" A.F.F. AND BE GFI RATED.
- 3 MAKE CONNECTIONS TO SELF CONTAINED WALK-IN COOLER OF FREEZER CONDENSERS. COORDINATE WITH WALK-IN INSTALLER AND OWNER FOR EXACT LOCATION AND REQUIREMENTS BEFORE DOING ANY WORK.
- 4 PROVIDE AND INSTALL J-BOX ABOVE ACCESSIBLE CEILING FOR POWER TO RE-CIRCULATING PUMP. PROVIDE SWITCH FOR DISCONNECTING MEANS. CONTRACTOR TO VERIFY EXACT LOCATION AND INTERCONNECTION REQUIREMENTS BETWEEN NEW WATER HEATER AND RECIRCULATING PUMP WITH MECHANICAL BEFORE DOING ANY WORK.
- 5 PROVIDE AND INSTALL A 60A, 208V, 3PH, 4 WIRE, HD TYPE 3R DISCONNECT FOR CONNECTIONS TO MAKE UP AIR UNIT. CONTRACTOR TO USE A 1" WATER TIGHT FLEXIBLE CONDUIT WITH 3-#6 THWN. CU. CONDRS. AND 1-#10 CU. GND.
- 6 PROVIDE AND INSTALL A 30A, 208V, 3PH, 4 WIRE, HD TYPE 3R DISCONNECT FOR CONNECTIONS TO MAKE UP AIR UNIT. CONTRACTOR TO USE A 1/2" WATER TIGHT FLEXIBLE CONDUIT WITH 3-#10 THWN. CU. CONDRS. AND 1-#10 CU. GND.
- 7 PROVIDE 120V, POWER TO KITCHEN HOOD CONTROL PANEL. COORDINATE EXACT LOCATION AND INTERCONNECTION REQUIREMENTS WITH MECHANICAL PLANS AND HOOD MANUFACTURER BEFORE DOING ANY WORK. HOOD EXHAUST FAN AND MAKE UP AIR UNIT TO BE WIRED THRU HOOD CONTROL PANEL. MAKE CONNECTIONS TO ALL NECESSARY ACCESSORY ITEMS AS REQUIRED. CONTROL PANEL COMES WITH ANSUL EMERGENCY SHUT-OFF. CONNECT HOOD CONTROL PANEL TO FIRE ALARM SYSTEM. SEE DETAIL 1/E5.0 AND 2/E5.0. ON SHEET E5.0.
- 8 PROVIDE AND INSTALL A 30A, 240V, 3 POLE, TYPE 3R, HD, NON-FUSED DISCONNECT ON EXHAUST FAN. EXHAUST FAN HOME RUN CIRCUIT TO BE RUN THROUGH HOOD CONTROL PANEL. VERIFY EXACT LOCATION AND INTERCONNECTION REQUIREMENTS WITH MECHANICAL PLANS BEFORE DOING ANY WORK.
- 9 MAKE CONNECTIONS TO GAS SOLENOID VALVE FROM HOOD CONTROL AS NECESSARY. COORDINATE WITH MECHANICAL PLANS AND KITCHEN HOOD INSTALLER FOR EXACT LOCATION AND WIRING REQUIREMENTS.
- 10 MAKE CONNECTIONS TO KEF USING A 1/2" CONDUIT WITH 3-#12 THWN CU. CONDRS. AND 1-#12 CU. GND. FROM HOOD CONTROL PANEL TO EXHAUST FAN.
- 11 APPROXIMATE LOCATION OF EXISTING ROOF OUTLET ENSURE THAT A ROOF MOUNTED RECEPTACLE IS WITHIN 25' OF ANY ELECTRICAL EQUIPMENT ON ROOF. (ON EXISTING CIRCUIT G1-16).
- 12 APPROXIMATE LOCATION OF EXISTING 225A 120/208V, 3 PH, 4 WIRE PANELBOARD 'G1' TO BE REPLACED WITH NEW 225A, 120/208V, 3PH 4 WIRE PANELBOARD 'G1' SEE NEW PANEL SCHEDULE ON SHEET E4.0.
- 13 APPROXIMATE LOCATION OF EXISTING 225A 277/480V, 3 PH, 4 WIRE PANELBOARD 'G2' TO BE REPLACED WITH NEW 225A, 120/208V, 3PH 4 WIRE PANELBOARD 'G2' SEE NEW PANEL SCHEDULE ON SHEET E4.0.
- 14 APPROXIMATE LOCATION OF J-BOX MOUNTED WITH MOTOR ENCLOSURE WITH POWER AS SHOWN. CONTRACTOR TO MAKE CONNECTIONS TO ROLLING DOOR AND ACCOMPANYING SWITCH FOR CONTROL.
- 15 MAKE CONNECTIONS TO WALK IN FREEZER/COOLER AS NECESSARY. EVAPORATOR TO BE FED FROM CONDENSOR. PROVIDE A 1/2" CONDUIT WITH 5-#12 CU. CONDRS. AND 1-#12 CU. GND. FOR POWER AND CONTROL WIRING BETWEEN CONDENSOR AND EVAPORATOR. VERIFY EXACT LOCATION AND INTERCONNECTIONS REQUIREMENTS WITH MANUFACTURER BEFORE DOING ANY WORK.
- 16 PROVIDE AND INSTALL A 1/2" CONDUIT FROM HOOD CONTROL PANEL TO ANSUL SYSTEM FOR FUTURE CONTROL WIRING PROVIDED AND INSTALLED BY ANSUL SYSTEM INSTALLER. WIRE CONTROL PANEL SO EXHAUST FANS TURN 'ON' AND MUA TURNS 'OFF' WHEN ANSUL SYSTEM IS ACTIVATED.
- 17 CONTRACTOR TO STUBB-UP GFI RECEPTACLE ON WA WATERPROOF PEDESTAL BOX. SEE DETAIL 1/E4.0 ON SHEET E4.0.

KITCHEN EQUIPMENT SCHEDULE				
ITEM #	ITEM	VOLT.	PHASE	AMPS WATTS HP ELECTRICAL A.F.F. (IN)
N.1	CONVECTION OVEN GAS	120V	1	7.7A 18"
N.3	TILTING SKILLET BRAISING PAN	115V	1	5A 18"
N.6L	SERVING COUNTER, COLD FOOD	120V	1	5.5A 18"
N.7L	HOT FOOD SERVING COUNTER	120V	1	1A 18"
N.8	SERVING COUNTER, UTILITY	120V	1	3.8A 18"
N.6R	SERVING COUNTER, COLD FOOD	120V	1	5.5A 18"
N.7R	HOT FOOD SERVING COUNTER	120V	1	3A 18"
N.10	MILK COOLER	120V	1	3.3A 44"
N.11	WALK IN COOLER	120V	1	3.3A --
N.12	WALK IN FREEZER	208V	1	2 HP --
N.15	FLOOR MIXER	208V	1	16A 44"
N.21	DISHWASHING MACHINE	208V	3	3.3A 44"
N.23	SCRAP COLLECTOR	120V	1	11A 18"
E.1	REFRIGERATOR SELF SERVICE CASE	120V	1	5A 18"
E.2	5 BIN WARMER	208V	1	22A 18"
E.3	SOLID DOOR HEATED CABINET	120V	1	8A 72"
E.4	ICE MAKER	120V	1	15A 54"
E.5	3 SOLID DOOR REFRIGERATOR	120V	1	9.6A 72"
E.7	GAS CONVECTION OVEN	120V	1	6A 18"
E.8	GAS CONVECTION OVEN DOUBLE	120V	1	9A 18"
E.9	ECLIPSE BRAISING PAN	120V	1	5A 18"
E.10	HEATED HOLDING CABINET	120V	1	6A 18"
E.11	SERVING COUNTER, COLD FOOD	120V	1	3A 18"

\* NOTE: THE EQUIPMENT INFORMATION ILLUSTRATED IN EQUIPMENT SCHEDULE WAS PROVIDED FOR DESIGN PURPOSES. CONTRACTOR MUST COORDINATE WITH EQUIPMENT INSTALLER FOR EXACT LOCATION AND REQUIREMENTS OF ALL EQUIPMENT BEFORE DOING ANY WORK. VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS BEFORE DOING ANY WORK.

GENERAL NOTES:

- A. CONTRACTOR MUST COORDINATE WITH KITCHEN EQUIPMENT INSTALLER FOR EXACT LOCATION AND HEIGHT OF EQUIPMENT RECEPTACLES BEFORE DOING ANY WORK.
- B. CONTRACTOR SHALL ADJUST RECEPTACLES LOCATION AND HEIGHT AS NECESSARY TO AVOID CONFLICTS WITH EQUIPMENT. ALL RECEPTACLES MUST BE ACCESSIBLE.
- C. ALL 120V, 20A RECEPTACLES INSTALLED IN KITCHEN AND MUST BE PROTECTED WITH A GFCI CIRCUIT BREAKER.



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SCHEMATIC DESIGN

E3.0

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Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: A.P/A/E/E  
PROJECT NO: 2022-16  
ISSUED: SEPTEMBER 30, 2022

REVISION SCHEDULE:

NO	DATE	DESCRIPTION
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TORNILLO INDEPENDENT SCHOOL  
DISTRICT CAFETERIA CONVERSION  
300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

POWER PLAN

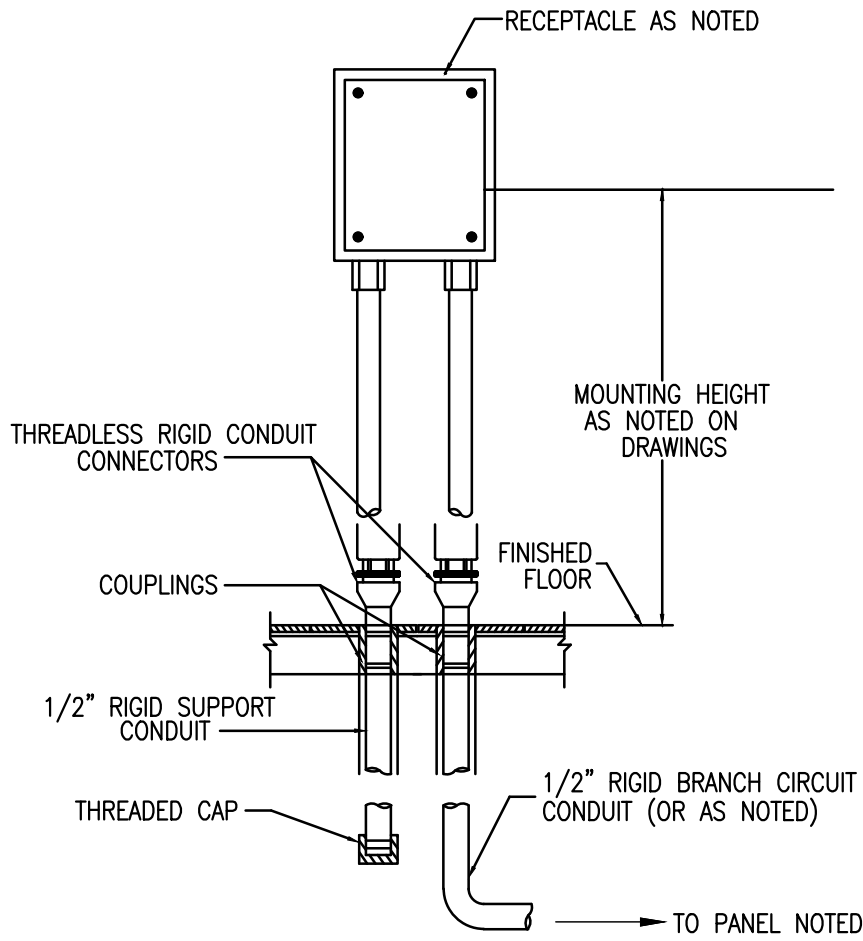


NEW PANELBOARD SCHEDULE									
PANELBOARD "G1": 120/208V, 3 PHASE, 4 WIRE, 225 AMP. PANEL RECESSED MOUNTED, CU BUS, CU NEUTRAL BAR, DOOR-IN-DOOR 200A MAIN C.B.									
LOAD SERVED	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED			
EXISTING GIRLS LOCKER LIGHTS	1	20/1	⬆	100	2	EC-5 208V, 3PH 20HP, 60 FLA			
EXISTING STORAGE LIGHTS	3	20/1	⬆		4				
SOLID DOOR	5	20/1	⬆		6				
HEATED CABINET	7	20/1	⬆	20/1	8	REFRIGERATOR SELF SERVICE CASE	(1)	E-1	
GAS CONVECTION OVEN	9	20/1	⬆	20/1	10	REFRIGERATOR SELF SERVICE CASE	(1)	E-1	
EXISTING EWH MOTOR	11	20/1	⬆	20/1	12	SERVING COUNTER, COLD FOOD	(1)	N-6B	
EXISTING COACH OUTLETS	13	20/1	⬆	20/1	14	HOT FOOD SERVING COUNTER	(1)	N-7B	
EXISTING EWC	15	20/1	⬆	20/1	16	EXISTING ROOF OUTLETS			
EXISTING GYM OUTLETS	17	20/1	⬆	20/1	18	CONVECTION OVEN GAS	(1)	N-1	
EXISTING STORAGE OUTLETS	19	20/1	⬆	20/1	20	GAS CONVECTION OVEN	(1)	E-7	
MILK COOLER	(1) 21	20/1	⬆	20/1	22	GAS CONVECTION OVEN DOUBLE	(1)	E-8	
GAS CONVECTION OVEN	(1) 23	20/1	⬆	20/1	24	ECLIPSE BRAISING PAN	(1)	E-9	
HOT FOOD SERVING COUNTER	(1) 25	20/1	⬆	20/1	26	TILTING SKILLET BRAISING PAN	(1)	N-3	
SERVING COUNTER, COLD FOOD	(1) 27	20/1	⬆	20/1	28	HEATED HOLDING CABINET	(1)	E-10	
CONVECTION OVEN GAS	(1) 29	20/1	⬆	20/1	30	RECIRCULATION PUMP			
RTU-KITCHEN 208V, 3PH 4 WIRE.	31	50	⬆	20/1	32	PLANNING RM 101 OUTLETS			
	33			30	34	FLOOR MIXER		N-1B	
	35			2	36				
RTU-OFFICE 208V, 3PH	37	30	⬆	30	38	DISHWASHING MACHINE		E-21	
	39			3	40				
	41			3	42				
DISHWASHER HOOD EXHAUST 208V, 3PH	43	25	⬆	20/1	44	SCRAP COLLECTOR	(1)	N-23	
	45			20/1	46	GAS CONVECTION OVEN	(1)	E-7	
	47			20/1	48	GAS CONVECTION DOUBLE	(1)	E-8	
ROLL UP DOOR	49	20/1	⬆	--	50	SPACE			
ICE MAKER	(1) 51	20/1	⬆	--	52	SPACE			
SPACE	53	--	⬆	--	54	SPACE			

(1) PROVIDE AND INSTALL A NEW 20A, 1 POLE, GROUND FAULT INTERCEPT CIRCUIT BREAKER

PANELBOARD "G1" LOAD CALCULATIONS		
	LOAD (VA)	
KITCHEN EQUIPMENT PER NEC 220.36 • 65%	11,500	
EXISTING LOAD ESTIMATED	16,400	
RTU	12,600	
AC1	5,037	
OUTLETS	4,900	
TOTAL	50,450	

$I = 50,450 \text{ VA} / (208\text{V})(1.73) = 140\text{A AMPS}$   
225 AMP, 120/208V, 3 PH., 4W, PANEL "G1" FED FROM A 200A 3PH, 4W, DISC. "G1" FUSED AT 200A  
EXISTING 2" CONDUIT WITH 4-3/0 THWN CU. CONDERS.  
1-#6 CU. COND. FOR EQUIPMENT GND. TO REMAIN.



## DETAIL-WATERPROOF PEDESTAL BOX ASSEMBLY

1  
E4.0

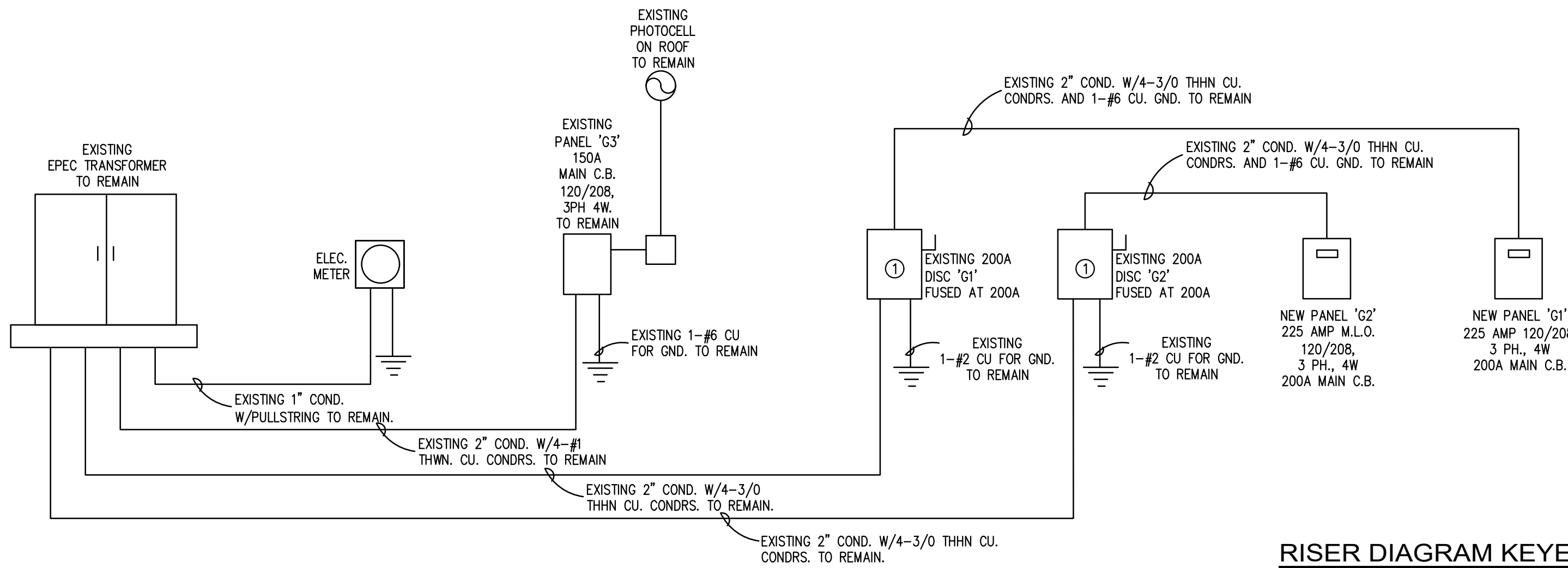
NTS

NEW PANELBOARD SCHEDULE									
PANELBOARD "G2": 120/208V, 3 PHASE, 4 WIRE, 225 AMP. PANEL RECESSED MOUNTED, CU BUS, CU NEUTRAL BAR, DOOR-IN-DOOR, 200A MAIN C.B.									
LOAD SERVED	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED			
EXISTING BOYS LOCKER LIGHTS	1	20/1	⬆	100	2	EXISTING EC-5 208V, 3PH 20HP, 60 FLA			
EXISTING TRAINER'S LIGHTS	3	20/1	⬆		4				
EXISTING WEIGHT ROOM LIGHTS	5	20/1	⬆		6				
EXISTING WEIGHT ROOM LIGHTS	7	20/1	⬆	40	8	EXISTING MUA-1 208V, 3PH 10HP, 31 FLA			
SPACE	9	--	⬆	3	10				
SPACE	11	--	⬆	3	12				
EXISTING TRAINERS'S OUTLETS	13	20/1	⬆	30	14	RTU STORAGE 208V, 3PH			
EXISTING COACH 119 OUTLETS	15	20/1	⬆	3	16				
EXISTING LOCKERS 125 OUTLETS	17	20/1	⬆	3	18				
EXISTING EWH MOTOR	19	20/1	⬆	30	20	MUA-1 14 FLA 208V, 3PH			
EXISTING WEIGHT RM. OUTLETS	21	20/1	⬆	3	22				
EXISTING WEIGHT RM. OUTLETS	23	20/1	⬆	3	24				
EXISTING EWC	25	20/1	⬆	--	26	SPACE			
SERVING COUNTER, UTILITY OUTLET (1)	27	20/1	⬆	--	28	SPACE			
KITCHEN OUTLET (1)	29	20/1	⬆	30	30	FREEZER CONDENSOR 208V, 1PH			
SERVING COUNTER, COLD FOOD (1)	31	20/1	⬆	2	32	KEF HOOD EXHAUST 208V, 3PH			
	33	25	⬆	30	34				
	35	2	⬆	3	36				
3 SOLID DOOR REFRIGERATOR	37	20/1	⬆		38				
ROLL UP DOOR	39	20/1	⬆	20/1	40	KITCHEN CONTROL PANEL			
STORAGE OUTLETS	41	20/1	⬆	20/1	42	HOOD LIGHTS			
SPACE	43	--	⬆	20/1	44	ELECTRIC GAS VALVE			
SPACE	45	--	⬆	--	46	SPACE			
SPACE	47	--	⬆	--	48	SPACE			
SPACE	49	--	⬆	--	50	SPACE			
SPACE	51	--	⬆	--	52	SPACE			
SPACE	53	--	⬆	--	54	SPACE			

(1) PROVIDE AND INSTALL A NEW 20A, 1 POLE, GROUND FAULT INTERCEPT CIRCUIT BREAKER

PANELBOARD "G2" LOAD CALCULATIONS		
	LOAD (VA)	
KITCHEN EQUIPMENT PER NEC 220.36 • 65%	5,400	
EXISTING LOAD ESTIMATED	21,800	
MUA-1	7,900	
EXHAUST	4,000	
(2) CONDENSORS	7,670	
TOTAL	46,770	

$I = 46,770 \text{ VA} / (208\text{V})(1.73) = 130 \text{ AMPS}$   
225 AMP, 120/208V, 3 PH., 4W, PANEL "G2" FED FROM A 200A 3PH, 4W, DISC. "G2" FUSED AT 200A  
EXISTING 2" CONDUIT WITH 4-3/0 THWN CU. CONDERS.  
1-#6 CU. COND. FOR GND. TO REMAIN.



## ELECTRICAL RISER DIAGRAM

NTS

### GENERAL NOTES:

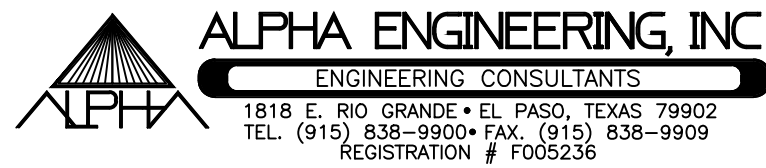
- ELECTRICAL INSTALLATION MUST FOLLOW ALL NATIONAL AND LOCAL ELECTRICAL CODES. INSTALLATION MUST CONFORM TO THE LOCAL POWER COMPANY'S SPECIFICATIONS.
- ELECTRICAL CONTRACTOR MUST COORDINATE AND VERIFY WITH MECHANICAL AND PLUMBING CONTRACTOR THE LOCATION AND ELECTRICAL REQUIREMENTS TO ALL A/C EQUIPMENT, MOTORS, PUMPS, T-STATS., INTERLOCKING WIRING, ETC.
- ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION AND SHALL BE LISTED BY THE U.L.
- ELECTRICAL CONTRACTOR MUST COORDINATE ALL POWER SERVICE ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES FOR TEMPORARY SERVICE.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND INSPECTION FEES REQUIRED BY THE GOVERNING BODIES.
- ELECTRICAL CONTRACTOR MUST COMPLY WITH THE LATEST A.D.A. REQUIREMENTS.
- MINIMUM SIZE CONDUCTORS SHALL BE #12 THW CU. UNLESS NOTED OR SIZED BY CODE.
- ALL WIRING MUST BE IN CONDUIT, INCLUDING ALL L.V. WIRING. THIN WALL CONDUIT (EMT) CAN BE INSTALLED CONCEALED ABOVE CEILING, IN FURRED WALLS, AND WALLS EXCEPT WHERE THOSE WALLS ARE GROUTED SOLID. USE FLEX CONDUIT FOR MOTORS AND LIGHTING FIXTURES. USE WATER TIGHT FLEX CONDUIT FOR WATER HEATERS, DISPOSALS, EXTERIOR CONNECTIONS, ETC. BOND ACCORDING TO CODE.
- FIXTURES. USE WATER TIGHT FLEX CONDUIT FOR WATER HEATERS DISPOSALS, EXTERIOR CONNECTIONS, ETC. BOND ACCORDING TO CODE.
- VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
- CONTRACTOR MUST VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE BIDDING ON THIS PROJECT.
- ELECTRICAL DEVICE INSTALLATION SHALL COMPLY WITH ACCESSIBILITY CODES ADOPTED IN CITY OF EL PASO.
- FEEDER, BRANCH CIRCUIT DESIGN, AND INSTALLATION SHALL COMPLY WITH THE LATEST ADOPTED CITY OF EL PASO ELECTRICAL CODE 18.16 AND NFPA 70 (NEC).
- ALL ELECTRICAL EQUIPMENT IN FIRE RATED ASSEMBLIES MUST BE INSTALLED SO THAT FIRE RATING IS NOT COMPROMISED. ELECTRICAL CONTRACTOR MUST INSTALL FIRE-STOPPING SEALS AND MATERIALS AS NECESSARY ON ALL PENETRATIONS MADE ON ALL FIRE RATED ASSEMBLIES TO MATCH FIRE RATING.
- BRANCH CIRCUIT NUMBERS ARE TO BE WRITTEN WITH BLACK INK MARKERS ON ALL COVERS OF ALL JUNCTION BOXES LOCATED ABOVE CEILING. MARKINGS MUST INDICATE THE PANEL AND CIRCUIT NUMBER OF CIRCUITS IN THAT BOX.
- MC CABLE IS NOT ALLOWED FOR ELECTRICAL INSTALLATIONS EXCEPT FOR LIGHT FIXTURE WHIPS.
- ALL ELECTRICAL DEVICE COVER PLATES SHALL BE PROVIDED WITH A ADHESIVE PERMANENT VINYL PRINTED LABEL INDICATING PANEL NAME AND CIRCUIT NUMBER. I.E. 'X'- 'XX' WHERE 'X' IS THE PANEL NAME AND 'XX' IS THE CIRCUIT NUMBER.
- ALL 15A & 20A, 125 AND 250-VOLT NON-LOCKING TYPE RECEPTACLES MUST BE LISTED TAMPER-RESISTANT RECEPTACLES TO COMPLY WITH NEC ART 406.12.
- ALL GFIC RECEPTACLES MUST BE INSTALLED IN A READILY ACCESSIBLE LOCATION TO COMPLY WITH NEC ART 210.8.

### RISER DIAGRAM KEYED NOTES:

- EXISTING 150A FUSES TO BE REPLACED WITH NEW 200A FUSES.
- CONTRACTOR TO REPLACE EXISTING 225A, 120/208V. 3PH, 4WIRE, PANEL WITH NEW 225A, 120/208V, 3PH, 4WIRE, PANELBOARD WITH A 200A MAIN C.B.

### ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
"A"	LED FIXTURE, LETTER DENOTES TYPE
"A" "a"	LED FIXTURE, UPPERCASE LETTER DENOTES FIXTURE TYPE, LOWERCASE LETTER DENOTES WHICH SWITCH IS CONTROLLING FIXTURE.
B	2X2 LED FIXTURE, UPPERCASE LETTER DENOTES FIXTURE TYPE.
"G"	WALL MOUNTED FIXTURE, LETTER DENOTES TYPE
"G"	CEILING MOUNTED FIXTURE, LETTER DENOTES TYPE
"X1"	EXIT LIGHT FIXTURE, CONNECT TO UNSWITCHED HOT CONDUCTOR.
"G"	RECESSED FIXTURE, LETTER DENOTES TYPE
"EM"	EMERGENCY LIGHTS FIXTURE, CONNECT TO UNSWITCHED HOT CONDUCTOR.
"EMX"	COMBINATION EXIT/EMERGENCY LIGHT FIXTURE, CONNECT TO UNSWITCHED HOT CONDUCTOR.
EF	EXHAUST FAN, SEE MECHANICAL PLANS
②	KEYED NOTE SYMBOL-ELECTRICAL
EUG	ELECTRICAL UNDERGROUND CIRCUIT, 2'-0" MINIMUM BELOW GRADE.
LV	LOW VOLTAGE WIRING CIRCUIT
WP	WEATHERPROOF
AFF	ABOVE FINISHED FLOOR
	BRANCH CIRCUIT IN WALLS OR CEILING.
-----	BRANCH CIRCUIT UNDER FLOOR.
\$	SINGLE POLE WALL SWITCH, 44" TO CENTER OF BOX. UNLESS OTHERWISE NOTED.
\$3	THREE-WAY WALL SWITCH, 44" TO CENTER OF BOX UNLESS OTHERWISE NOTED.
\$4	FOUR-WAY WALL SWITCH, 44" TO CENTER OF BOX. UNLESS OTHERWISE NOTED.
	4" SQ. DEEP BOX WITH SINGLE DEVICE PLASTER RING FOR DATA/TEL. SYSTEM OUTLET AT 18" AFF TO CENTER UNLESS OTHERWISE NOTED. INSTALL 1" COND. WITH BUSHING AND PULL-STRING. STUB-OUT CONDUIT ABOVE NEAREST ACCESSIBLE LAY-IN CEILING.
①	JUNCTION BOX
②	CONTROLS FOR EXHAUST FANS IN MECHANICAL
	JUNCTION BOX INSTALLED ABOVE THE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN FIXTURES. MAXIMUM 6'-0" LENGTH OF CONDUIT WITH REQUIRED CONDUCTORS ALONG WITH GREEN WIRE GROUND.
	DUPLEX OUTLET, 18" A.F.F. TO CENTER OF BOX, UNLESS OTHERWISE NOTED
GFI	GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE, 18" A.F.F., TO CENTER, UNLESS OTHERWISE NOTED
	RECEPTACLE, 125/250VAC - 30A. NEMA 6-30R, 18" A.F.F, TO CENTER UNLESS OTHERWISE NOTED
	QUADRIPLEX RECEPTACLE, 125VAC-20A, NEMA 5-20R, 18" A.F.F., TO CENTER UNLESS OTHERWISE NOTED
	STUBB-UP RECEPTACLE . SEE DETAIL 1/E4.0.
	4" SQ. BOX WITH SINGLE DEVICE PLASTER RING AT 44" A.F.F TO CENTER OF BOX FOR THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR
	NEW PANEL BOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	EXISTING PANEL BOARD TO REMAIN. NO WORK REQUIRED UNLESS NOTED.
	DISCONNECT, TO BE NEMA 3R IF INSTALLED OUTDOORS.
	MOTOR CONTROLLER, SIZE AND POLES FOR MOTOR FURNISHED.
T	TRANSFORMER AS NOTED



SCHEMATIC DESIGN

E4.0

## TORNILLO INDEPENDENT SCHOOL DISTRICT CAFETERIA CONVERSION

300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

## RISER DIAGRAM

DRAWN BY: A.P/A/E/E

PROJECT NO: 2022-16

ISSUED: SEPTEMBER 30, 2022

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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Countryman & Co.  
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827







PLUMBING GENERAL NOTES

1. COMPLY WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS.
2. COMPLY WITH ALL REQUIREMENTS OF THE SERVING AGENCIES, PAY ALL COSTS REQUIRED FOR METER INSTALLATIONS, SEWER TAPS, ETC.
3. COMPLY WITH ALL REFERENCED COMMERCIAL STANDARDS, RULES, SPECIFICATIONS, ETC.
4. WATER PIPING ABOVE GROUND USE TYPE "L" HARD DRAWN COPPER.  
WATER PIPING BELOW BUILDING SLAB USE TYPE "K" HARD DRAWN COPPER PIPE AND FITTINGS
5. WATER PIPING 5' BEYOND BUILDING 4" AND LARGER USE AWWA C900 CLASS 150 PIPE  
WATER PIPING 5' BEYOND BUILDING 3.0" AND SMALLER USE TYPE "K" HARD DRAWN COPPER
6. ALL WATER PIPING USED FOR DRINKING PURPOSES SHALL BE SOLDER WITH LEAD-FREE.
7. WASTE AND VENT PIPING BELOW AND ABOVE GRADE USE SOLID CORE SCHEDULE 40 PVC.
8. INDOOR/OUTDOOR CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
9. ALL ABOVE GRADE GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. GAS PIPING BELOW GRADE SHALL HAVE A PROTECTIVE COATING (EX. X-TRU-COAT). POLYETHYLENE PIPING BELOW GRADE AND 5' BEYOND BUILDING IS PERMITTED.
10. INSTALL DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS MATERIALS.
11. RELIEF DRAIN PIPING FOR WATER HEATERS TO BE RUN TO APPROVED RECEPTACLES.
12. CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER AND SEWER MAINS AND POINTS OF CONNECTION.
13. CONTRACTOR TO INSTALL SHUT-OFF VALVES ON EACH WATER SUPPLY AT EACH PLUMBING FIXTURE AND ALL EQUIPMENT.
14. INSTALL WALL CLEANOUTS AT EACH LAVATORY, URINAL, SINK AND WATER COOLER.
15. INSULATE ALL HOT AND COLD WATER PIPING WITH 1" FIBERGLASS INSULATION FOR PIPES UP 1-1/2" IN DIAMETER. INSULATE WITH 2" FIBERGLASS FOR PIPES OVER 1-1/2".
16. ALL PIPING EXPOSED TO WEATHER SHALL BE PAINTED AND COATED WITH AN APPROVED PROTECTIVE COATING FOR CORROSION CONTROL.
17. ALL PIPING IS TO BE HUNG AND ANCHORED BY APPROVED MEANS AND INTERVALS AS PER APPLICABLE CODE.
18. CONTRACTOR IS TO VERIFY THAT FALL OF THE SEWER LINE WILL MEET INVERT AT POINT OF CONNECTION BEFORE INSTALLING PIPING.
19. INSULATE CONDENSATE LINES ABOVE GRADE WITH 1" FIBERGLASS INSULATION.
20. ALL UNDERGROUND WATER LINES TO BE BURIED BELOW FROSTLINE, MIN. 24" OR GREATER, AS DICTATED BY LOCAL CODES.
21. ALL INDIRECT WASTE LINES TO BE AIR GAPPED OVER FLOOR SINKS AND FLOOR DRAINS.
22. ALL WATER HEATERS SHALL COMPLY WITH ASHRAE 90.1 STANDARD LATEST EDITION. AND THE CURRENT TEXAS LOW NOX STANDARDS.
23. BUILDING SHALL HAVE AN APPROVED BACKFLOW PREVENTION DEVICE OF REDUCED PRESSURE TYPE (E.P.A. AND COUNTY APPROVED).
24. EXPOSED HOT WATER AND DRAIN PIPING LOCATED BENEATH HANDICAPPED ACCESSIBLE LAVATORIES SHALL BE INSULATED, AS SPECIFIED.
25. WATER METER, BACKFLOW PREVENTERS AND MASTER SHUT-OFF VALVES MOUNTED INSIDE VALVE OR YARD BOXES SHALL BE AND COVERED WITH ALUMINUM JACKET INSULATION TO PREVENT FREEZING.
26. FIRE SEAL ALL PENETRATIONS OF RATED WALLS PER APPLICABLE U.L. RATED SYSTEM.

PLUMBING SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— EF —	EXISTING FIRE PROTECTION	VTR	VENT THRU ROOF
— F —	FIRE PROTECTION	DGCO	DOUBLE GRADE CLEANOUT
— -- --	DOMESTIC COLD WATER LINE	GCO	GRADE CLEANOUT
— -- --	DOMESTIC HOT WATER LINE	— — —	CHECK VALVE
— -- --	HOT WATER SUPPLY	— — —	PLUG VALVE
— -- --	VENT PIPING	— — —	BALANCING VALVE WITH MEMORY STOP
— EV —	EXISTING VENT	— — —	RELIEF VALVE
— ES —	NEW SANITARY SEWER LINE	— — —	PRESSURE REDUCING VALVE
— G —	EXISTING SOIL LINE	— — —	BUTTERFLY VALVE
— EG —	NEW GAS LINE	— — —	NEEDLE VALVE
— D —	DRAIN LINE	— — —	BALL VALVE
— CD —	CONDENSATE DRAIN	— — —	STRAINER
○	KEYED NOTES	— — —	UNION
FCO	FLOOR CLEANOUT	— — —	FLANGED CONNECTION
WCO	WALL CLEANOUT	— — —	THERMOMETER
●	NEW TO EXISTING CONNECTION	— — —	GAUGE
— RDL —	ROOF DRAIN LEADER	— — —	REDUCER
— OFL —	OVER FLOW LEADER	— — —	VALVE IN RISE
— OFD —	OVERFLOW DRAIN	— — —	PIPE ELBOW DOWN

MINIMUM PIPE MATERIAL SCHEDULE			
SERVICE TYPE	LOCATION	MATERIAL REQUIRED	COMMENTS
SANITARY WASTE, VENT	BELOW GRADE 5'-0" OUTSIDE BUILDING FOOTPRINT	SCHEDULE 40 PVC W/ SOLVENT WELDED JOINTS	SEE MATERIAL SUBSTITUTION NOTES
	BELOW GRADE WITHIN 5'-0" BUILDING FOOTPRINT	SCHEDULE 40 PVC W/ SOLVENT WELDED JOINTS	SEE MATERIAL SUBSTITUTION NOTES
	ABOVE GRADE WITHIN BUILDING	SCHEDULE 40 PVC W/ SOLVENT WELDED JOINTS.	SEE MATERIAL SUBSTITUTION NOTES
DOMESTIC WATER FOR COLD HOT AND CIRCULATION	EXPOSED DRAINS WITHIN MECHANICAL ROOMS AND KITCHENS	HARD DRAWN TYPE "K" COPPER. KITCHEN LINES SHALL BE PAINTED SILVER	
	BELOW GRADE OUTSIDE BUILDING FOOTPRINT	COPPER TYPE "K" HARD DRAWN	
	BELOW GRADE INSIDE BUILDING FOOTPRINT	COPPER TUBING TYPE "K" SOFT DRAWN	NO JOINTS BELOW SLAB
HYDRONIC PIPING	ABOVE GRADE/LAB WITHIN BUILDING	COPPER TYPE "L" HARD DRAWN	
	THROUGH OUT SYSTEM	COPPER TYPE "L"	PRO PRESS FITTINGS
CONDENSATE & EVAPORATIVE COOLER DRAINS	THROUGH OUT SYSTEM	SCHEDULE 40 PVC W/ SOLVENT WELDED JOINTS INSULATED WITH 1" FIBERGLASS INSULATION	SIMILAR TO WATER APPLICATIONS
PIPE MATERIAL SUBSTITUTION NOTES:			
NOTE: ALL PVC PIPE SHALL BE SOLID CORE, NO EXCEPTIONS.			
SUBSTITUTIONS NOTICE: INSTALLATION OF MATERIALS OTHER THAN THOSE LISTED ABOVE SHALL NOT BE ALLOWED UNLESS APPROVED BY THIS OFFICE IN WRITING AND WHEN PERMITTED BY LOCAL AUTHORITIES.			
INSULATION REQUIREMENTS:			
ALL COLD WATER AND CONDENSATE PIPING INSTALLED WITHIN BUILDING SHELL SHALL BE INSULATED WITH A MINIMUM 1" FIBERGLASS THICKNESS. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED WITH 1" THICK MATERIAL RATED AT 0.24 BTUH / INCH / SQ.FT. / DEG. F TO MEET OR EXCEED ENERGY CONSERVATION CODE. APPROVED INSULATION MATERIALS SHALL BE: SLEEVED FIBERGLASS MATERIAL SEALED VAPOR TIGHT IN ACCORDANCE TO APPROVED INDUSTRY STANDARDS AND PRACTICES. SEE SPECIFICATIONS FOR OTHER APPROVED MATERIAL TYPES. THIS SCHEDULE IS PROVIDED AS MINIMUM INSULATION REQUIREMENTS ONLY AND SPECIFICATIONS SHALL SUPERSEDE THIS SCHEDULE WHERE SPECIFICATIONS CALL FOR GREATER INSULATION MATERIALS AND/OR INSTALLATION METHODS.			

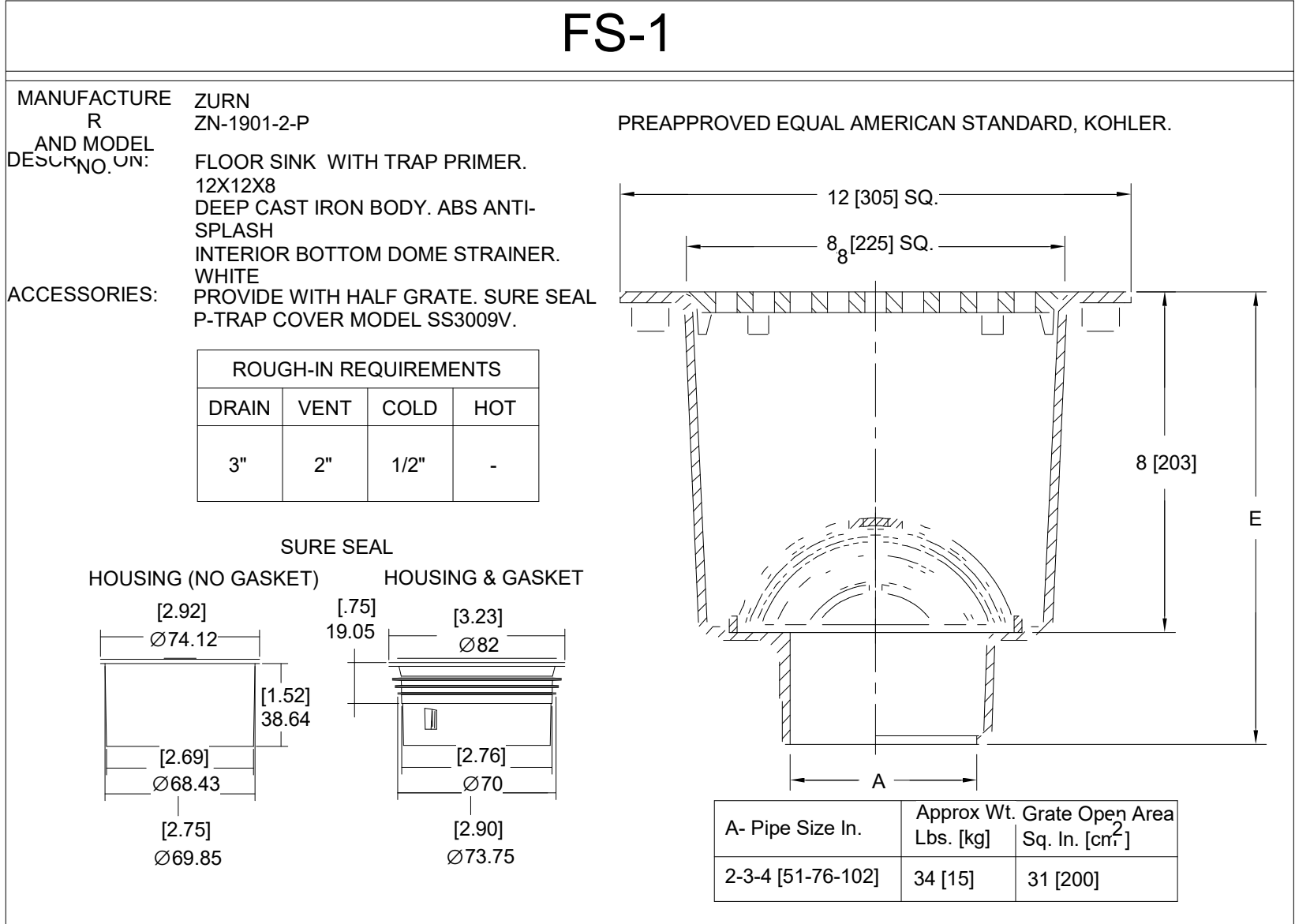
HANGER SPACING SCHEDULE

PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (feet)	MAXIMUM VERTICAL SPACING (feet)
Acrylonitrile butadiene styrene (ABS) pipe	4	10b
Aluminum tubing	10	15
Brass pipe	10	10
Cast-iron pipe	5a	15
Chlorinated polyvinyl chloride (CPVC) pipe and tubing, 1" and smaller	3	10b
Chlorinated polyvinyl chloride (CPVC) pipe and tubing, 1-1/4" and larger	4	10b
Copper or copper-alloy pipe	12	10
Copper or copper-alloy tubing, 1-1/4 -inch diameter and smaller	6	10
Copper or copper-alloy tubing, 1-1/2 -inch diameter and larger	10	10
Cross-linked polyethylene (PEX) pipe	2.67 (32 inches)	10b
Cross-linked polyethylene/ aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	2.67 (32 inches)	4
Lead pipe	Continuous	4
Polyethylene/aluminum/ polyethylene (PE-AL-PE) pipe	2.67 (32 inches)	4
Polyethylene of raised temperature (PE-RT) pipe	2.67 (32 inches)	10b
Polypropylene (PP) pipe or tubing 1 inch and smaller	2.67 (32 inches)	10b
Polypropylene (PP) pipe or tubing, 1-1/4 inches and larger	4	10b
Polyvinyl chloride (PVC) pipe	4	10b
Stainless steel drainage systems	10	10b
Steel pipe	12	15

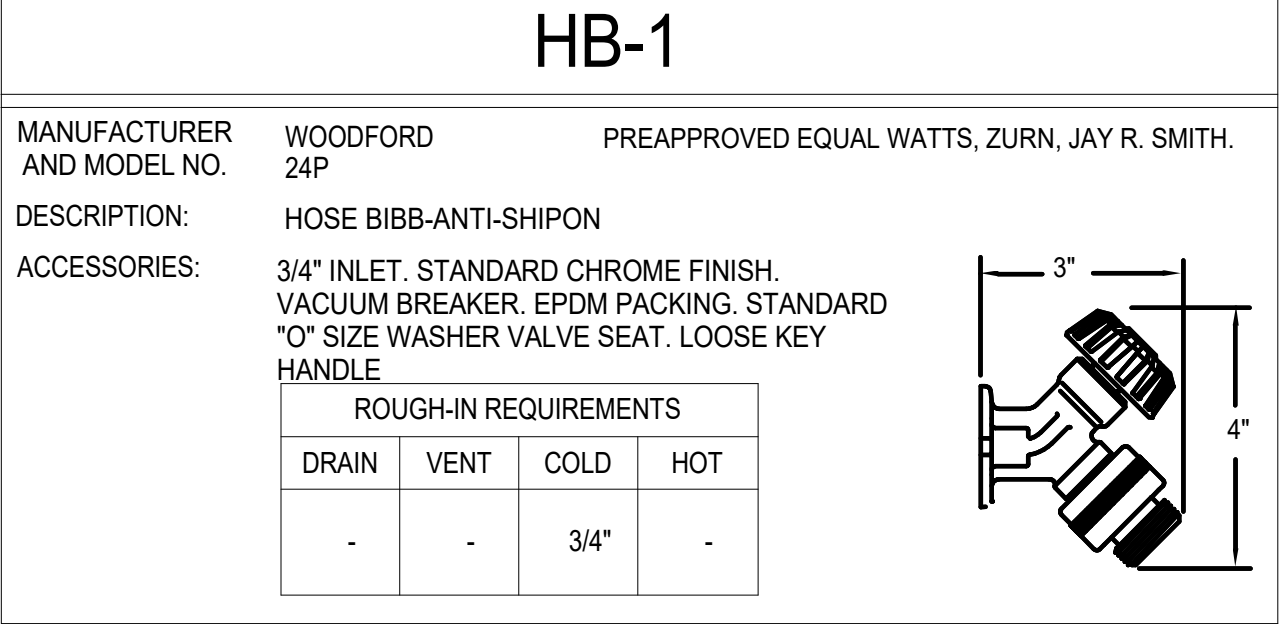
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

- a. The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed.
- b. For sizes 2 inches and smaller, a guide shall be installed midway between required vertical supports. Such guides shall prevent pipe movement in a direction perpendicular to the axis of the pipe.

FS-1



HB-1

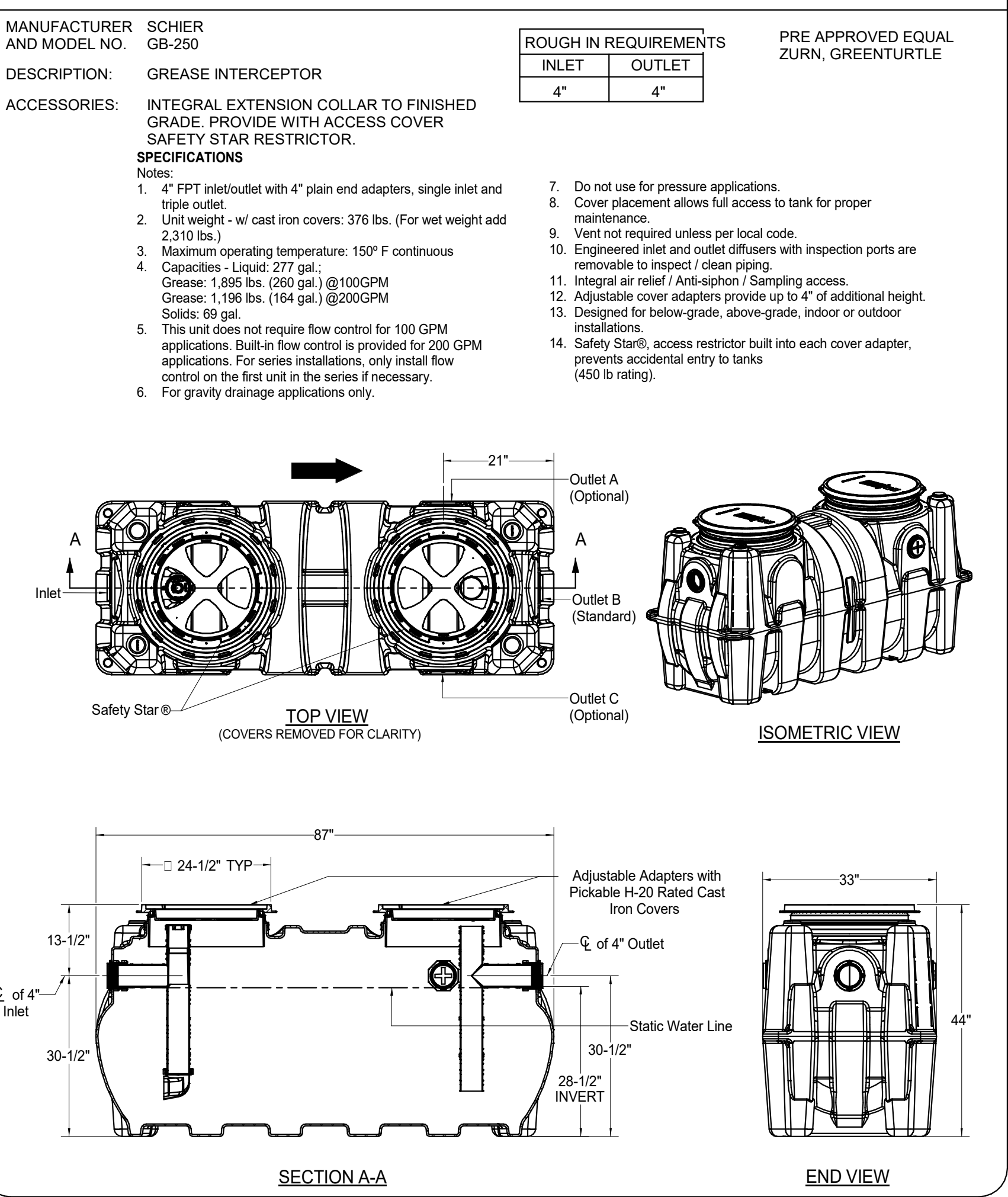


MINIMUM PIPE INSULATION THICKNESS SCHEDULE

FLUID OPERATING TEMPERATURE RANGE AND USAGE (%%143F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (inches)				
	Conductivity Btu · in./h · ft² · °F/b	Mean Rating Temperature, F	<1	1 TO < 1-1/2	1-1/2" TO < 4	1 TO < 8	≥ 8
> 350	0.32 – 0.34	250	4.5	5.0	5.0	5.0	5.0
251 – 350	0.29 – 0.32	200	3.0	4.0	4.5	4.5	4.5
201 – 250	0.27 – 0.30	150	2.5	2.5	2.5	3.0	3.0
141 – 200	0.25 – 0.29	125	1.5	1.5	2.0	2.0	2.0
105 – 140	0.21 – 0.28	100	1.0	1.0	1.5	1.5	1.5
40 – 60	0.21 – 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 – 0.26	50	0.5	1.0	1.0	1.0	1.5

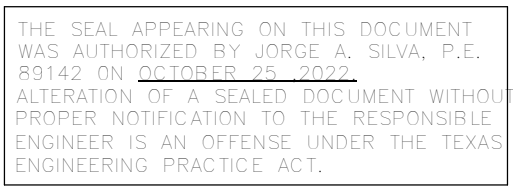
- For SI: 1 inch = 25.4 mm, °C = [(°F) - 32]/1.8.
- a. For piping smaller than 1-1/2 inches and located in partitions within conditioned spaces, reduction of these thicknesses by 1 inch shall be permitted (before thickness adjustment required in footnote b) but not to a thickness less than 1 inch.
- b. For insulation outside the stated conductivity range, the minimum thickness (T) shall be determined as follows:  
T = r(1 + 1/r)k/k - 1  
where:  
T = minimum insulation thickness,  
r = actual outside radius of pipe,  
t = insulation thickness listed in the table for applicable fluid temperature and pipe size,  
K = conductivity of alternate material at mean rating temperature indicated for the applicable fluid temperature (Btu · in/h · ft² · °F) and  
k = the upper value of the conductivity range listed in the table for the applicable fluid temperature.
- c. For direct-buried heating and hot water system piping, reduction of these thicknesses by 1-1/2 inches (38 mm) shall be permitted (before thickness adjustment required in footnote b but not to thicknesses less than 1 inch (25 mm)).

GI-1



Countryman & Co.  
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.919.1827



DRAWN BY: AEG  
PROJECT NO: 2022-16  
ISSUED: 10/24/2022

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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TORNILLO INDEPENDENT SCHOOL  
DISTRICT CAFETERIA CONVERSION  
300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

PLUMBING LEGEND, GENERAL NOTES & SCHEDULES

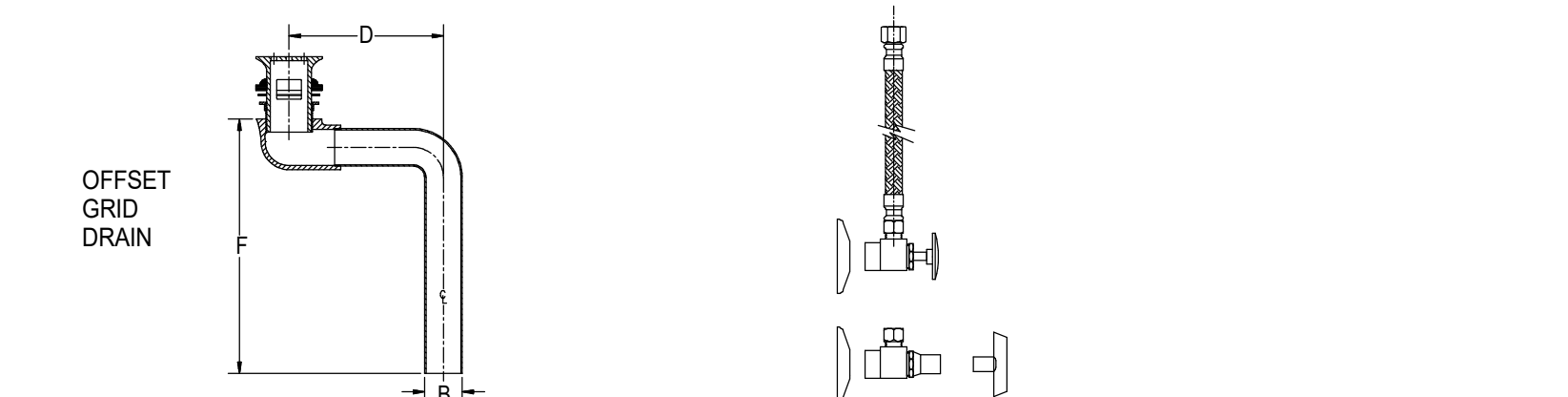
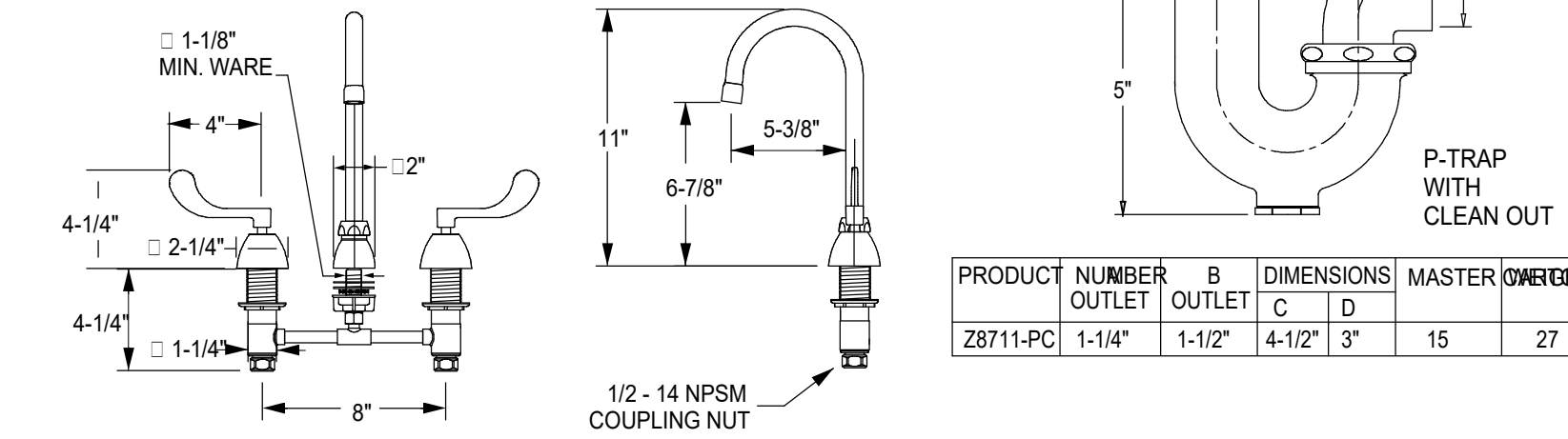
Project Status

P-100



MANUFACTURER  
AND MODEL NO. ZURN : Z5368.531.4.87.59.6 PREAPPROVED EQUAL AMERICAN STANDARD, KOHLER.

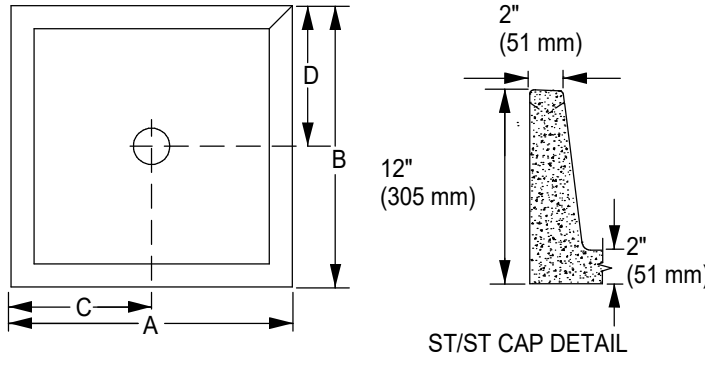
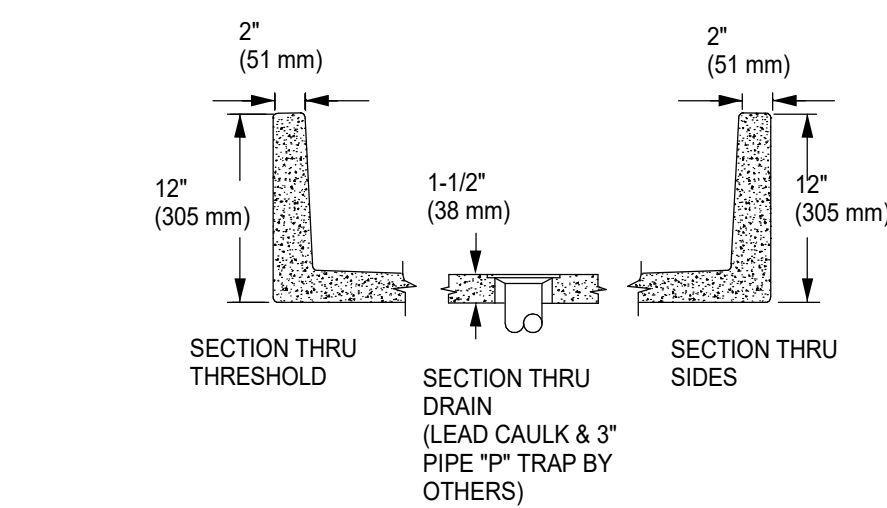
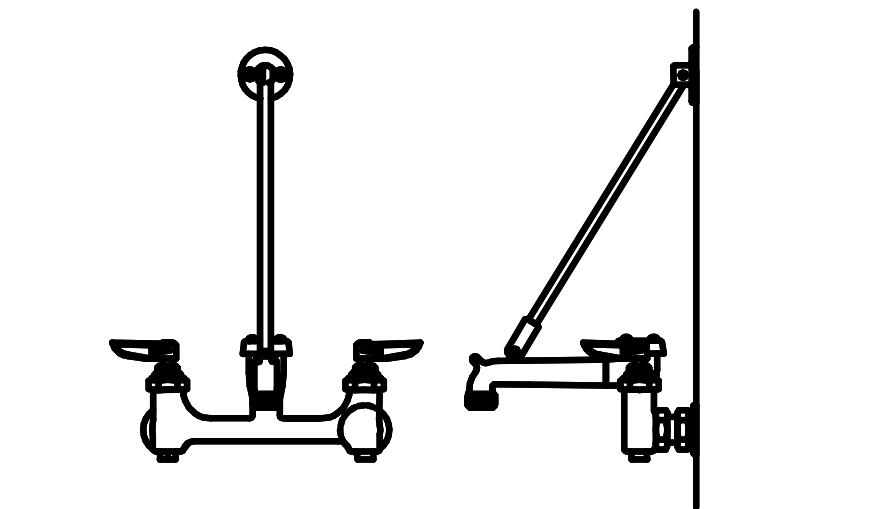
ROUGH-IN REQUIREMENTS			
DRAIN	VENT	COLD	HOT
2"	1-1/2"	1/2"	1/2"



PRODUCT	NUMBER DIMENSIONS			MASTER	CARTON	PRODUCT NUMBER	CONNECTIONS	EXT.	MASTER	CARTON	
	OUTLET	D	F							LR	LRLK
ZH746-PC	1-1/4	5-1/8	8-3/4	24	40	ZH8823LR-8862-12-PC	1/2"IPS X 1/2" OD	-	25	30	-

MANUFACTURER AND MODEL NO.	FIAT TSB100	PREAPPROVED EQUAL AMERICAN STANDARD, KOHLER.
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ROUGH-IN REQUIREMENTS			
DRAIN	VENT	COLD	HOT
3"	2"	3/4"	3/4"



MODEL	SIZE	A	B	C	D
TSB100	24"x24"x12"	24	24	12	12
TSB300	32"x32"x12"	32	32	16	16
TSB500	36"x36"x12"	36	36	18	18
TSB700	36"x24"x12"	36	24	18	12

SERIES TSB200 WITH PLAIN CURBS					
MODEL	SIZE	A	B	C	D
TSB200	24"x24"x12"	24	24	12	12
TSB400	32"x32"x12"	32	32	16	16
TSB600	36"x36"x12"	36	36	18	18
TSB800	36"x24"x12"	36	24	18	12

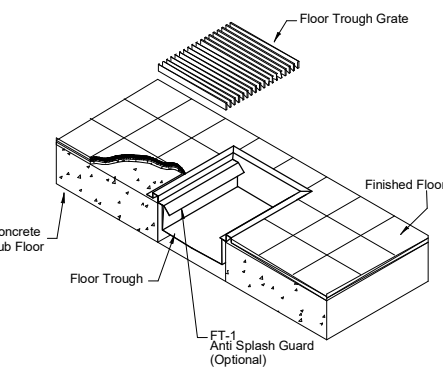
MANUFACTURER AND MODEL NO.	ADVANCE TABCO FTG-1248	ROUGH IN REQUIREMENTS
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**PLUMBING ROUGH-IN**

1" W 1" 3/4" 1" 5/8" 1" 4" O.D. Perforated Drain Basket

Section A-A  
N.T.S.

DIMENSIONS				
L	W	A	B	C
48"	12"	50"	14"	4"



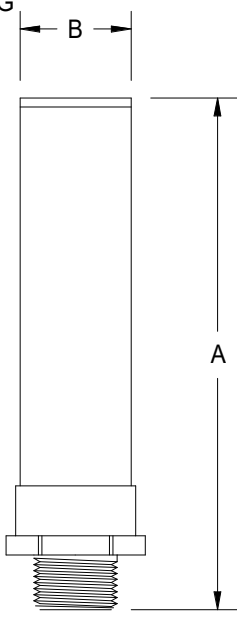
MANUFACTURER AND MODEL NO.	ZURN Z-1446	PREAPPROVED EQUAL WATTS, JAY R. SMITH, WADE.
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ROUGH-IN REQUIREMENTS			
DRAIN	VENT	COLD	HOT
2" TO 4"	-	-	-

DIMENSIONS IN INCHES								APPROX. WT. LBS
PIPE SIZE	NH			NH				
	B	C	D	F	B	C	D	F
2	6-3/8	3-1/16	1-3/4	5	10	4-1/2	2-3/4	5
3	7-3/4	3-7/8	2-1/2	5	12	5-3/4	3	5
4	8-7/8	4-7/16	3	7	12	5-3/4	3-1/2	7
5		-	-	-	13	6-1/4	4	7
6	12-1/2	6-1/4	4-5/16	9	14	6-3/4	4-1/2	9
8	-	-	-	-	17	8-1/4	5-1/2	11

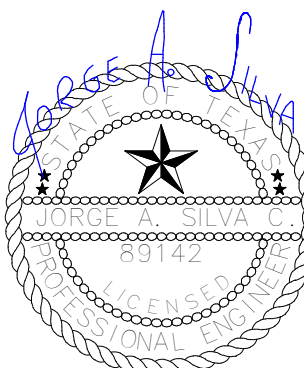
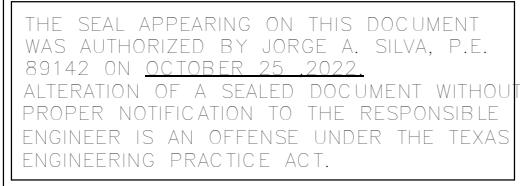
PREAPPROVED EQUAL PPP, JAY R. SMITH

ROUGH-IN REQUIREMENTS			
DRAIN	VENT	COLD	HOT
-	-	1/2"	1/2"



SIZE	PDI SIZE	MNPT THREAD	DIMENSIONS				AIR CHAMBER VOLUME	FIXTURE UNIT CAPACITY
			A		B			
			in	mm	in	mm		
1/2" (12.7 mm)	A	1/2"	1.5	38.1	1.5	38.1	0.5	1.1
3/4" (19.0 mm)	A	3/4"	2.0	50.8	2.0	50.8	0.8	1.7
1" (25.4 mm)	A	1"	2.5	63.5	2.5	63.5	1.2	2.5
1 1/2" (38.1 mm)	A	1 1/2"	3.0	76.2	3.0	76.2	1.8	3.7
2" (50.8 mm)	A	2"	3.5	88.9	3.5	88.9	2.5	5.1
2 1/2" (63.5 mm)	A	2 1/2"	4.0	101.6	4.0	101.6	3.2	6.6
3" (76.2 mm)	A	3"	4.5	114.3	4.5	114.3	4.0	8.3
3 1/2" (88.9 mm)	A	3 1/2"	5.0	127.0	5.0	127.0	4.8	10.0
4" (101.6 mm)	A	4"	5.5	139.7	5.5	139.7	5.6	11.7
4 1/2" (114.3 mm)	A	4 1/2"	6.0	152.4	6.0	152.4	6.4	13.4
5" (127.0 mm)	A	5"	6.5	165.1	6.5	165.1	7.2	15.1
5 1/2" (139.7 mm)	A	5 1/2"	7.0	177.8	7.0	177.8	8.0	16.8
6" (152.4 mm)	A	6"	7.5	190.5	7.5	190.5	8.8	18.5
6 1/2" (165.1 mm)	A	6 1/2"	8.0	203.2	8.0	203.2	9.6	20.2
7" (177.8 mm)	A	7"	8.5	215.9	8.5	215.9	10.4	21.9
7 1/2" (190.5 mm)	A	7 1/2"	9.0	228.6	9.0	228.6	11.2	23.6
8" (203.2 mm)	A	8"	9.5	241.3	9.5	241.3	12.0	25.3
8 1/2" (215.9 mm)	A	8 1/2"	10.0	254.0	10.0	254.0	12.8	27.0
9" (228.6 mm)	A	9"	10.5	266.7	10.5	266.7	13.6	28.7
9 1/2" (241.3 mm)	A	9 1/2"	11.0	279.4	11.0	279.4	14.4	30.4
10" (254.0 mm)	A	10"	11.5	292.1	11.5	292.1	15.2	32.1
10 1/2" (266.7 mm)	A	10 1/2"	12.0	304.8	12.0	304.8	16.0	33.8
11" (279.4 mm)	A	11"	12.5	317.5	12.5	317.5	16.8	35.5
11 1/2" (292.1 mm)	A	11 1/2"	13.0	330.2	13.0	330.2	17.6	37.2
12" (304.8 mm)	A	12"	13.5	342.9	13.5	342.9	18.4	38.9
12 1/2" (317.5 mm)	A	12 1/2"	14.0	355.6	14.0	355.6	19.2	40.6
13" (330.2 mm)	A	13"	14.5	368.3	14.5	368.3	20.0	42.3
13 1/2" (342.9 mm)	A	13 1/2"	15.0	381.0	15.0	381.0	20.8	44.0
14" (355.6 mm)	A	14"	15.5	393.7	15.5	393.7	21.6	45.7
14 1/2" (368.3 mm)	A	14 1/2"	16.0	406.4	16.0	406.4	22.4	47.4
15" (381.0 mm)	A	15"	16.5	419.1	16.5	419.1	23.2	49.1
15 1/2" (393.7 mm)	A	15 1/2"	17.0	431.8	17.0	431.8	24.0	50.8
16" (406.4 mm)	A	16"	17.5	444.5	17.5	444.5	24.8	52.5
16 1/2" (419.1 mm)	A	16 1/2"	18.0	457.2	18.0	457.2	25.6	54.2
17" (431.8 mm)	A	17"	18.5	469.9	18.5	469.9	26.4	55.9
17 1/2" (444.5 mm)	A	17 1/2"	19.0	482.6	19.0	482.6	27.2	57.6
18" (457.2 mm)	A	18"	19.5	495.3	19.5	495.3	28.0	59.3
18 1/2" (469.9 mm)	A	18 1/2"	20.0	508.0	20.0	508.0	28.8	61.0
19" (482.6 mm)	A	19"	20.5	520.7	20.5	520.7	29.6	62.7

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

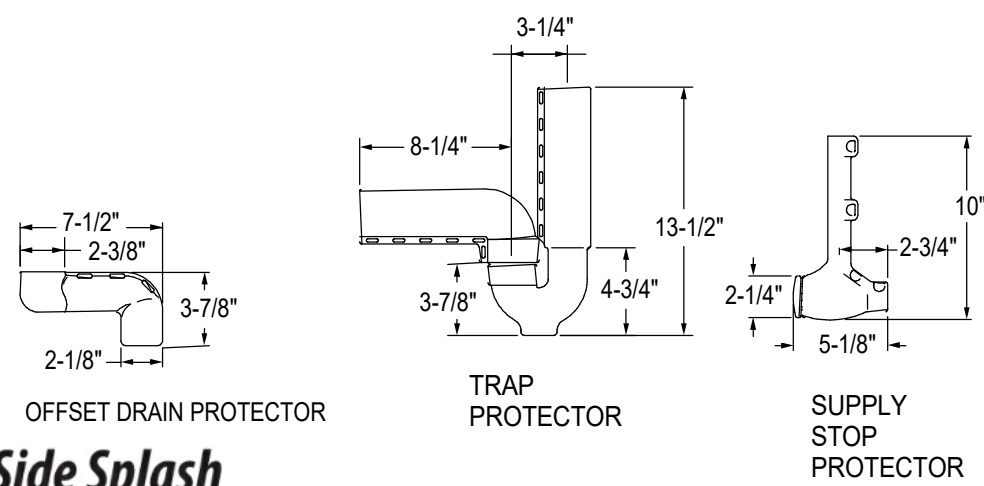



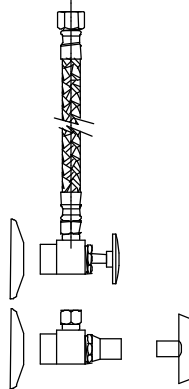
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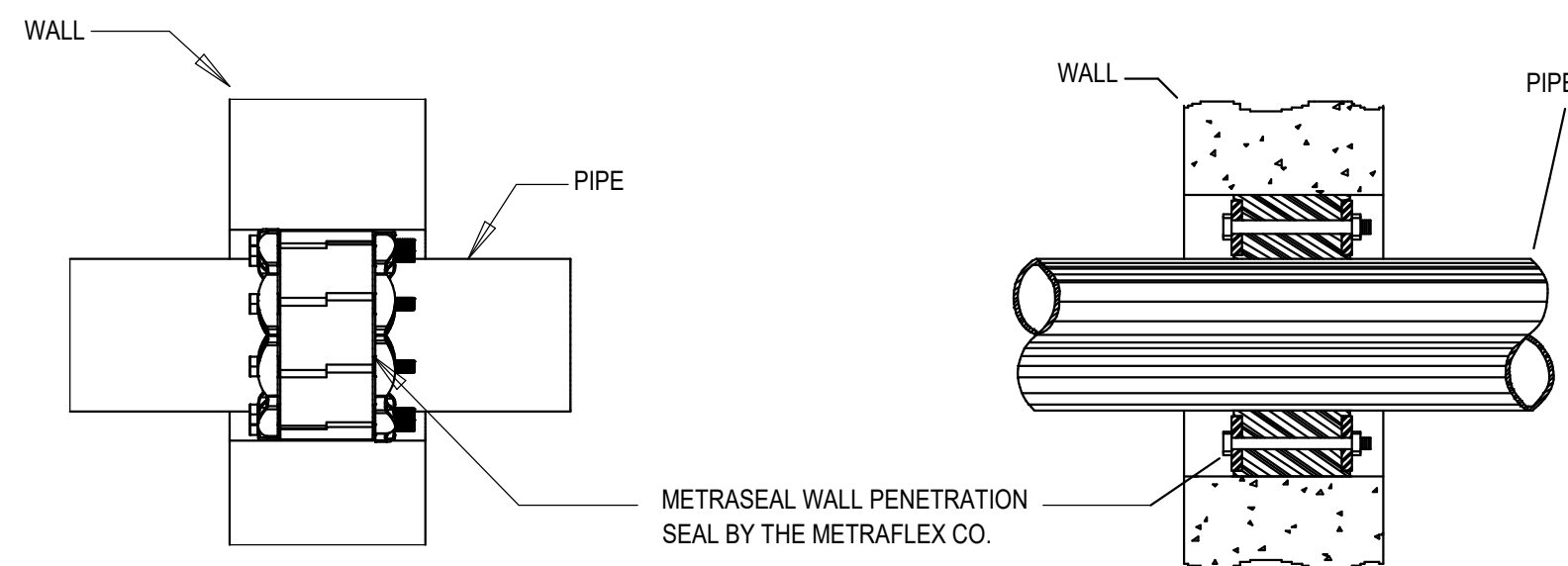
SHEET TITLE:

## Project Status

# P-101



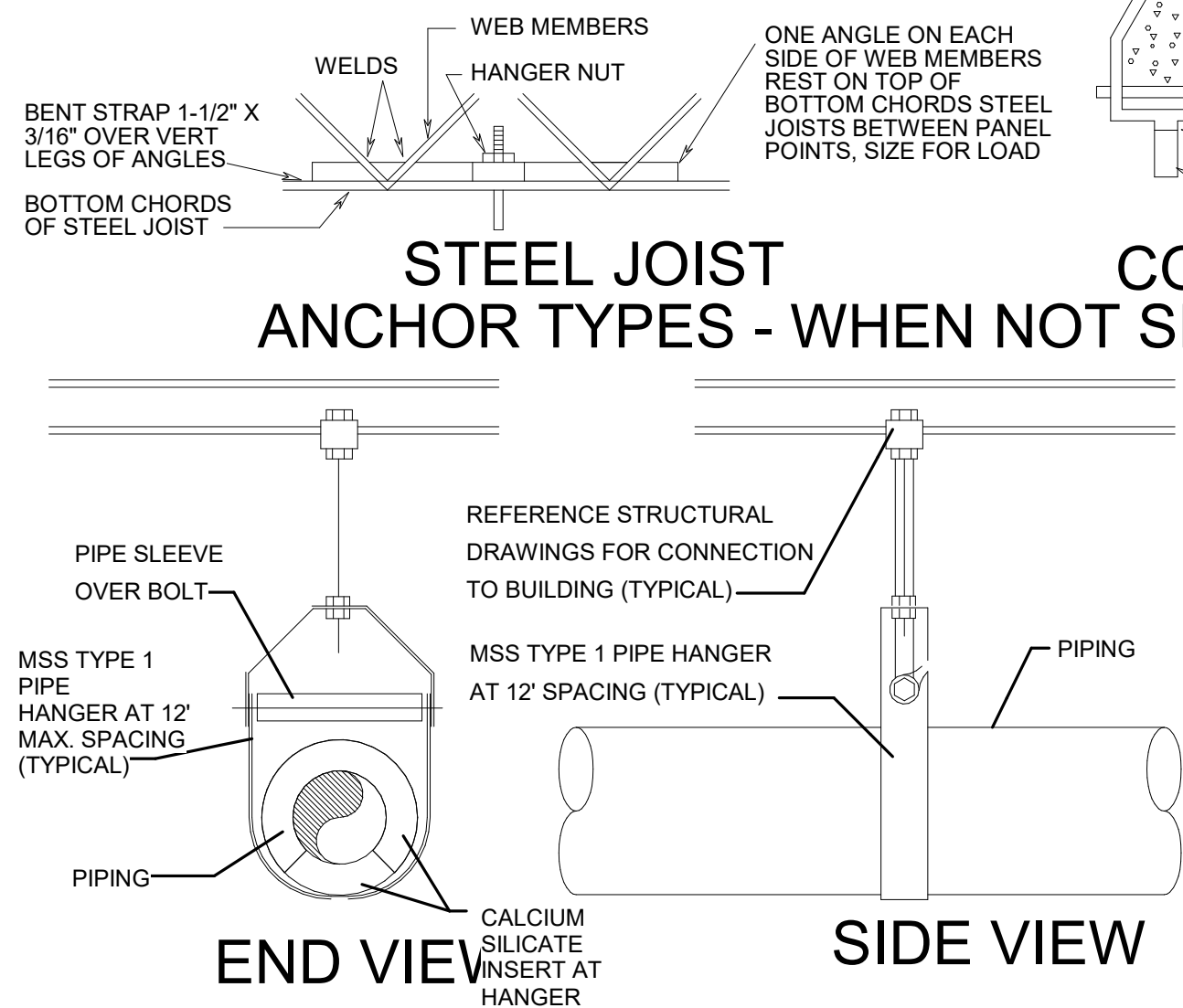
MANUFACTURER AND MODEL NO.	BK RESOURCES - OR APPROVED EQUAL 14X10 HAND SINK (INT DIMENSION)			PREAPPROVED EQUAL JUST, ELKAY, ADVANCED TABCO										
	DESCRIPTION: WALL MOUNTED SINGLE COMP SINK WITH SIDE SPLASHES, GOOSENECK FAUCET.													
ACCESSORIES:	BKF-W-3-G FAUCET, STRAINER, CENTER DRAIN LOCATION, QUARTER TURN ANGLE STOPS, STAINLESS STEEL FLEXIBLE HOSE CONNECTORS 1/2" X 3/8", ZURN Z8946-3-NT COMBINATION KIT ONE TRAP, TWO SUPPLY STOPS.													
	ROUGH-IN REQUIREMENTS													
	DRAIN	VENT	COLD	HOT										
	2"	1-1/2"	1/2"	1/2"										
	<b>14" x 10" Hand Sinks w/ Side Splash</b> Stainless Steel Hand Sinks													
														
<b>Certifications:</b> 														
<b>Features:</b> <ul style="list-style-type: none"> <li>• Wall Mounting Hardware Included</li> <li>• Drain Included</li> <li>• Accommodates 4" O.C. Faucets</li> <li>• Marine Edge</li> </ul>														
<b>Material:</b> <ul style="list-style-type: none"> <li>• 304 Stainless Steel</li> </ul>														
<b>Options:</b> <ul style="list-style-type: none"> <li>• Upgraded Faucets</li> <li>• Other Plumbing Accessories - Call For Details</li> </ul>														
Part Number	Unit Size (w x d)	Bowl Dim. (l x w x d)	Faucet /Spout Mounting	Side Splash	Included Faucet	Drain Size	Product Weight (lbs)							
BKHS-W-1410-SS	17" x 15 <sup>1/2"</sup>	14" x 10" x 5"	4" O.C. Splash	Dual	-	1 7/8"	12.50							
BKHS-W-1410-RS	17" x 15 <sup>1/2"</sup>	14" x 10" x 5"	4" O.C. Splash	Right	-	1 7/8"	11.00							
BKHS-W-1410-LS	17" x 15 <sup>1/2"</sup>	14" x 10" x 5"	4" O.C. Splash	Left	-	1 7/8"	11.00							
<b>BKHS-W-1410-SS-P-G</b>	<b>17" x 15<sup>1/2"</sup></b>	<b>14" x 10" x 5"</b>	<b>4" O.C. Splash</b>	<b>Dual</b>	<b>BKF-W-3-G-G</b>	<b>1 7/8"</b>	<b>13.30</b>							
														
PRODUCT NUMBER	CONNECTIONS	EXT.	MASTER	CARTON										
				LR	LRLK									
ZH8820LRLK-8860-12-PC	3/8"IPS X 3/8" OD	-	25	-	32									



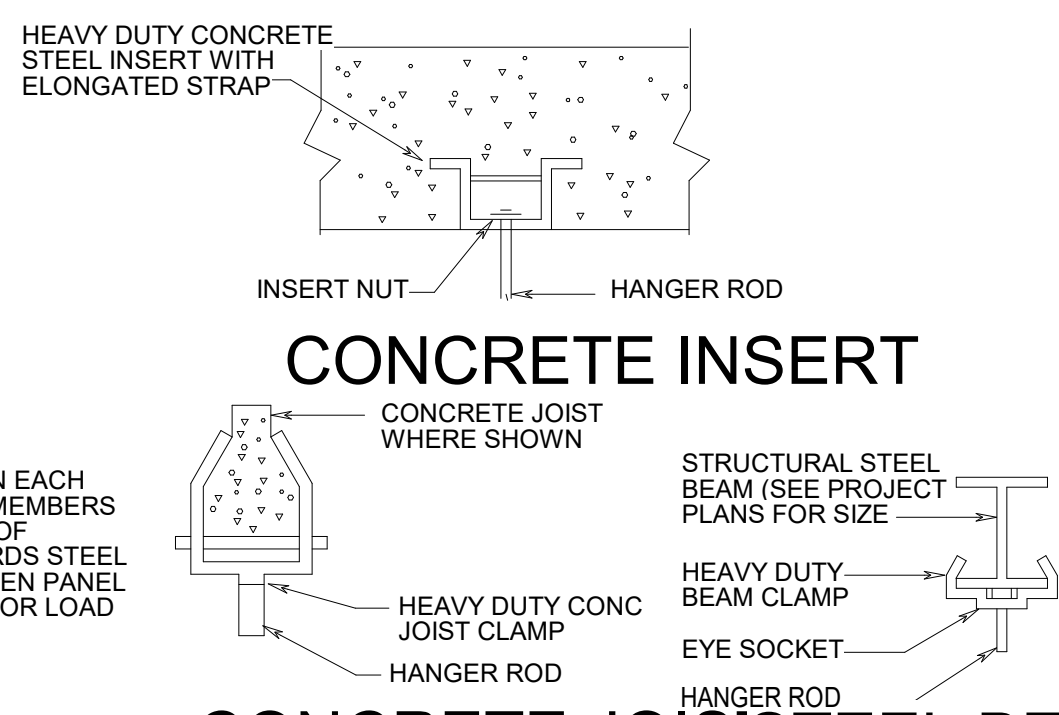
TYPE	SEAL MATERIAL	PRESSURE PLATES	BOLTS & NUTS	TEMPERATURE RANGE (°F)	APPLICATIONS*
E	EPDM Black	GLASS REINFORCED PLASTIC	STEEL zinc dichromate	-40 to +250	Suitable for most applications in water, both above ground and direct burial. Provides electrical insulation where cathodic protection is required.
ES	EPDM Black	GLASS REINFORCED PLASTIC	STAINLESS STEEL (18-8)	-40 to +250	Suitable for environments where the corrosion resistance of stainless steel hardware is required.
P	NITRILE	REINFORCED PLASTIC	STEEL zinc dichromate	-40 to +210	Resistant to most hydrocarbons, oil, gas, jet fuel, and many solvents.
PS	NITRILE	REINFORCED PLASTIC	STAINLESS STEEL (18-8)	-40 to +210	Same as above but with corrosion resistance of stainless steel hardware.
HT	Silicone	STEEL ZINC DICHROMATE	STEEL zinc dichromate	-40 to +400	High temperature applications.

[illegible]

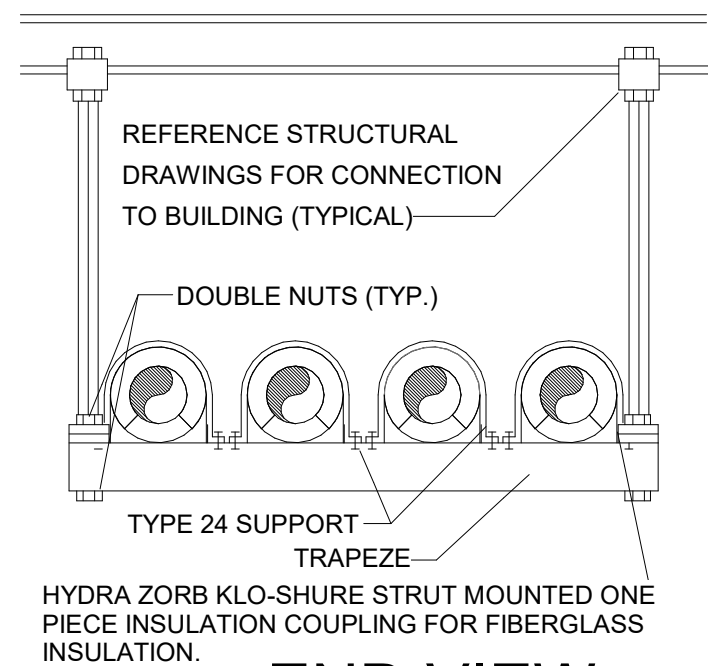
HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 6"	5/8" DIA.
2-1/2" TO 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.



END VIEW SIDE VIEW  
SILICATE INSERT AT HANGER  
INDIVIDUAL PIPE SUPPORT



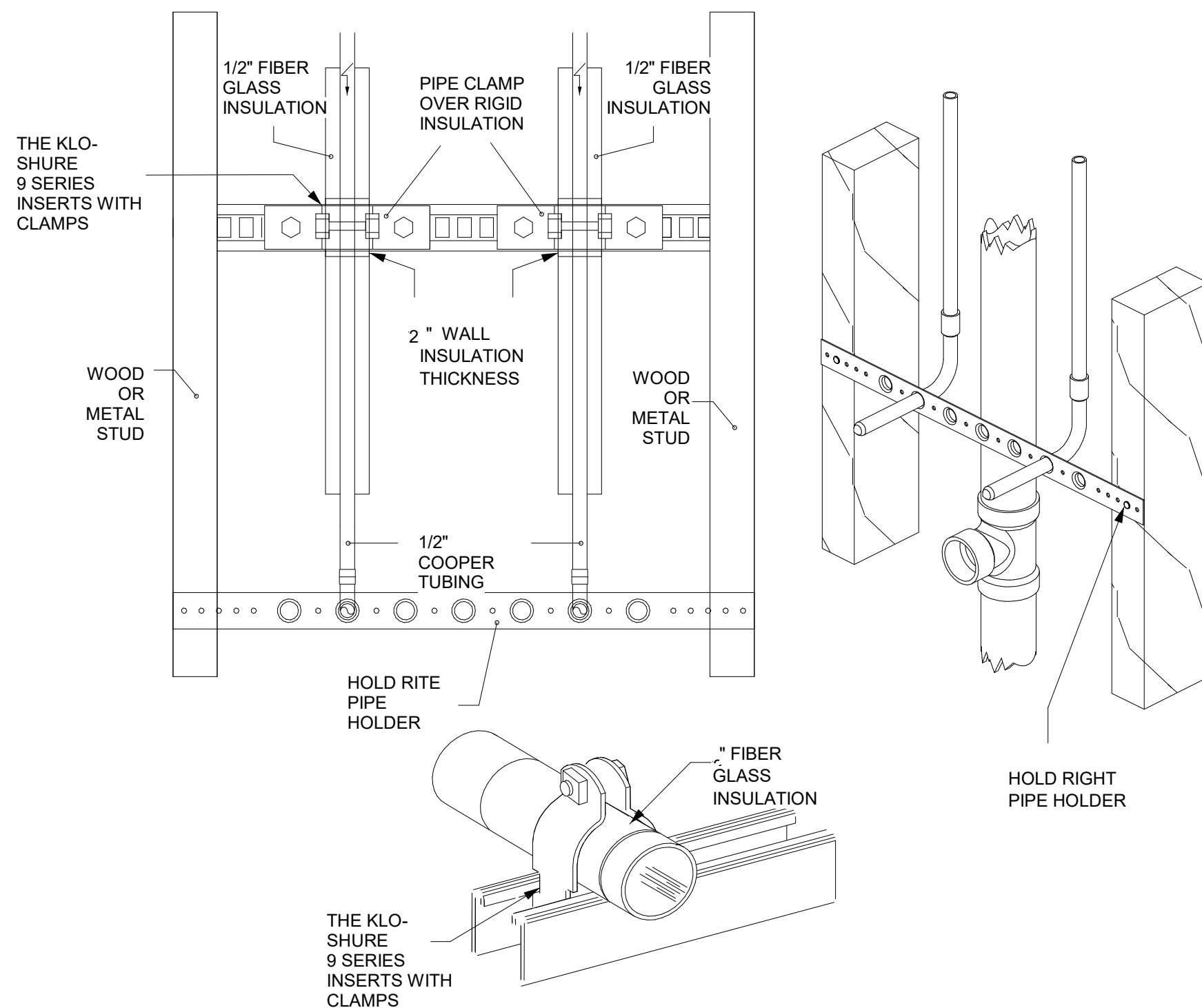
# CONCRETE JOIST-STEEL BEAM - SPECIFIED BY STRUCTURAL



INSULATION.

END VIEW

MULTIPLE TRAPEZE PIPE SUPPORT

[illegible]

## LAVATORY PIPING WALL SUPPORT SCHEMATIC

**MANUFACTURER AND MODEL NO.**

**DESCRIPTION:**

**ACCESSORIES:**

**AO SMIT  
BTH-400 Mxi**

**119 GALLON CAPACITY GAS FIRED  
WATER HEATER**

**399,900 BTUH INPUT.  
FACTORY INSTALLED POWER CORD,  
CONCENTRIC VENT KIT  
NEUTRALIZER KIT  
3/4" T&P RELIEF VALVE  
PROVIDE WITH PIPE COVER  
ISOLATION VALVE KITS  
2 GALLON ZURN EXPANSION TANK.**

ROUGH IN REQUIREMENTS		
COLD	HOT	DRAIN
1-1/2"	1-1/2"	3/4"

ELECTRICAL		
V	F	A
120 V	60 Hz	5.0 A

**BTH 300-500**

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2. GAS VALVE INLET CONNECTION

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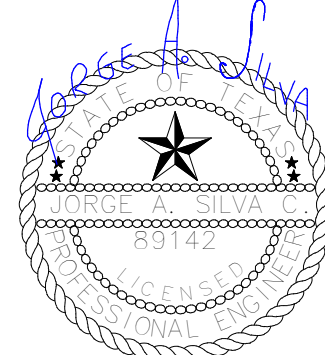
250. GAS VALVE INLET CONNECTION

251. GAS INLET

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ENGINEERING PRACTICE ACT.



DRAWN BY: AEG  
PROJECT NO: 2022-16  
ISSUED: 10/24/2022

REVISION SCHEDULE:

Nº.	DATE	DESCRIPTION

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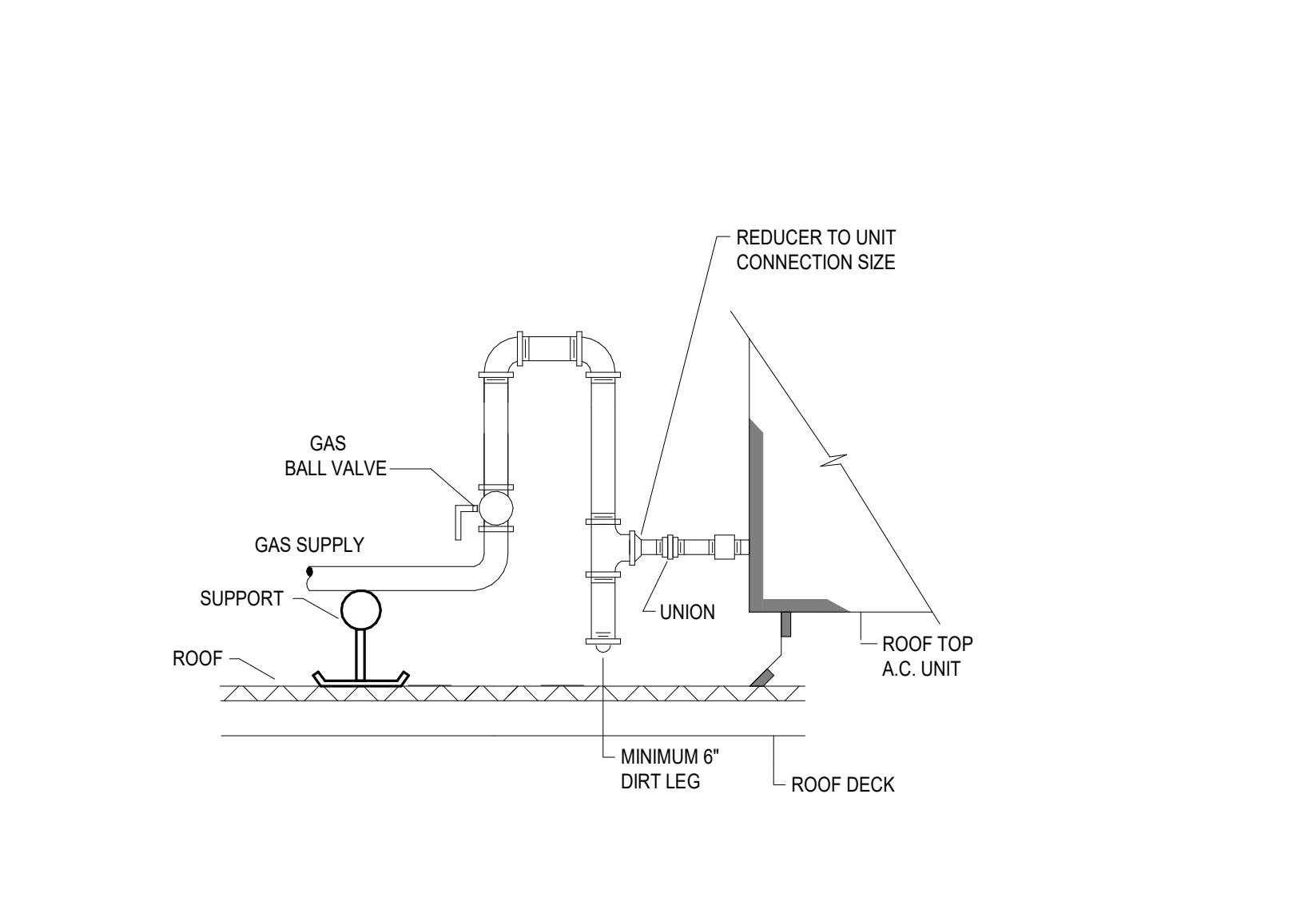
SHEET TITLE:

# PLUMBING SCHEDULES & SCHEMATIC

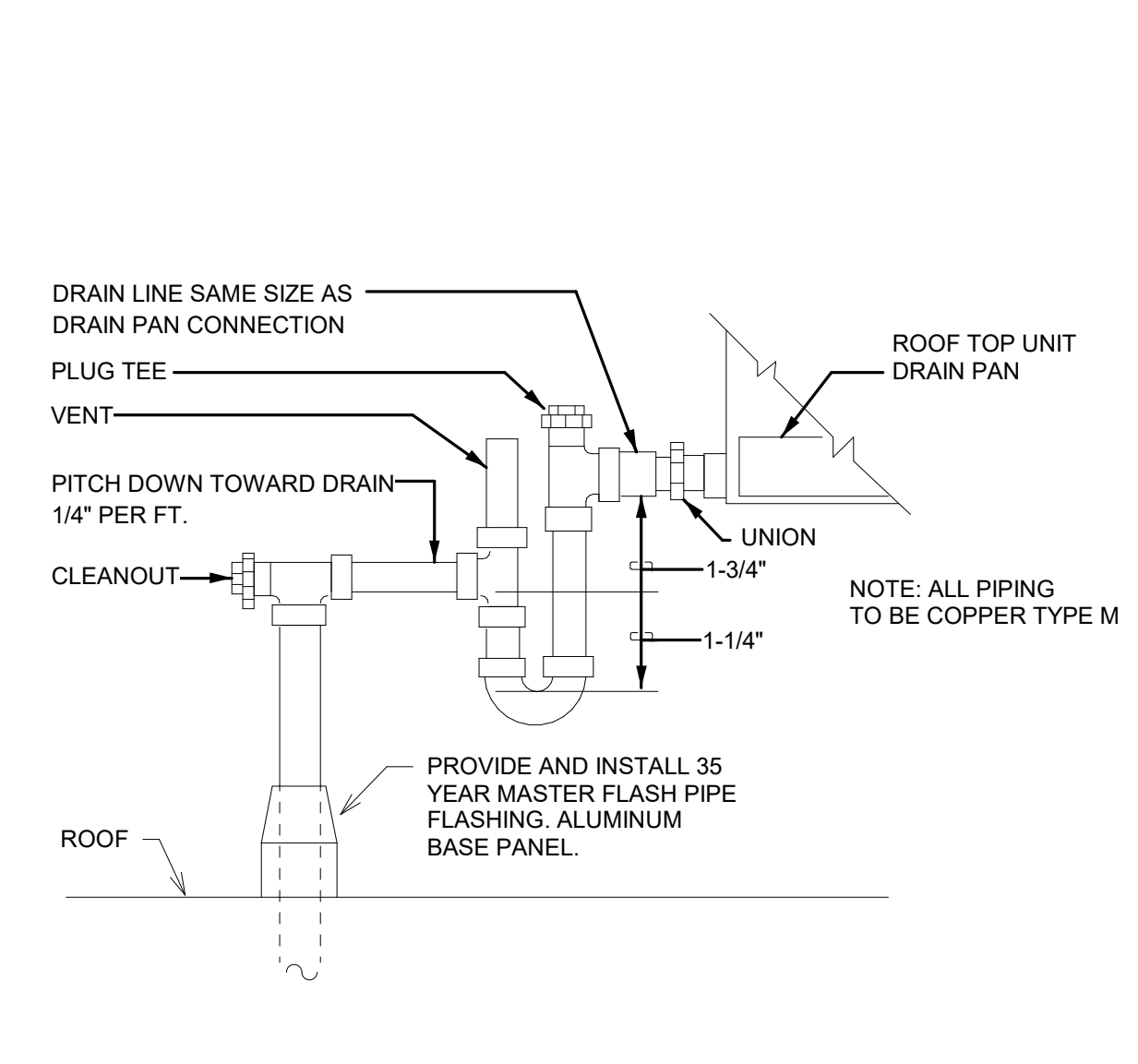
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# P-102

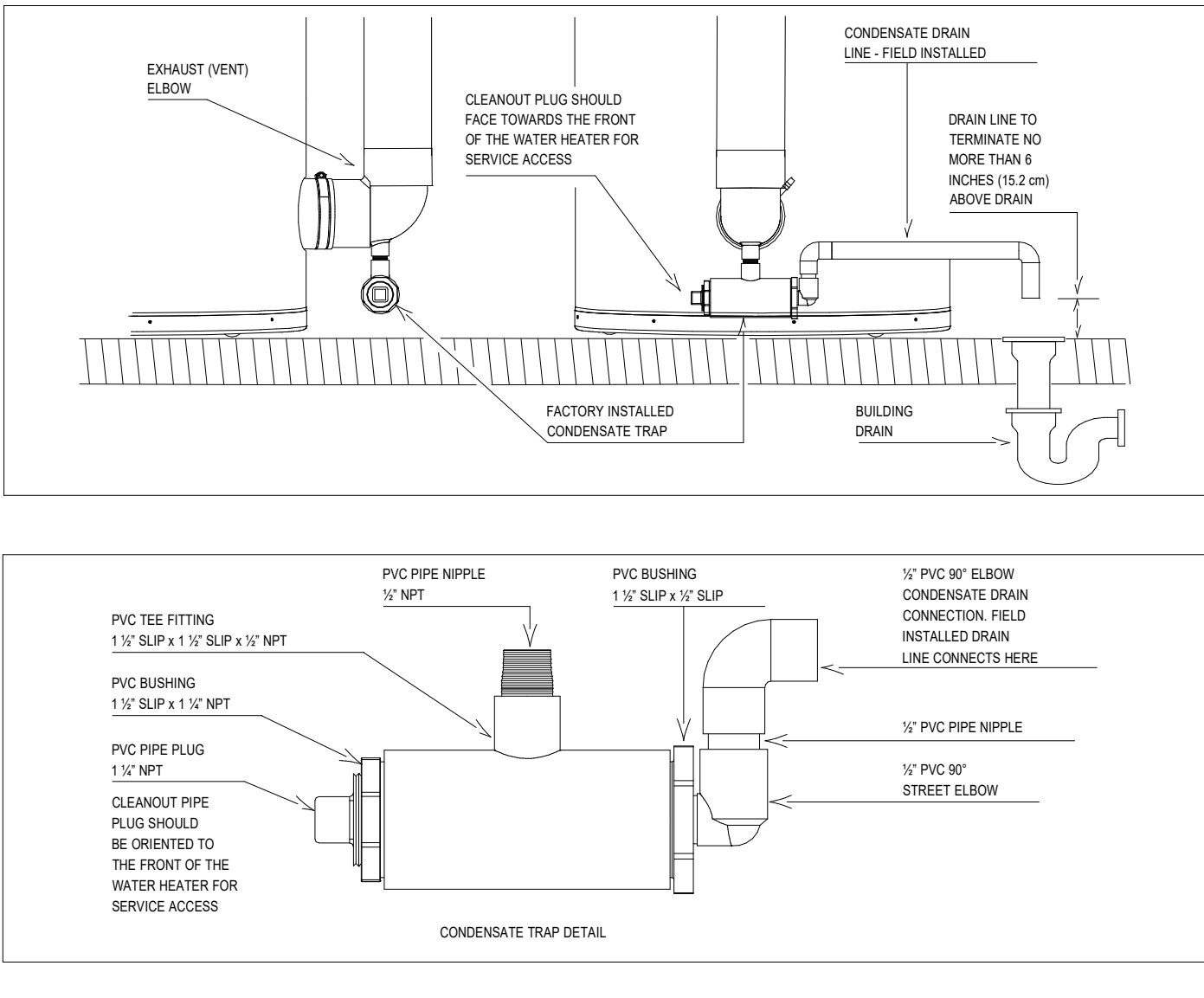




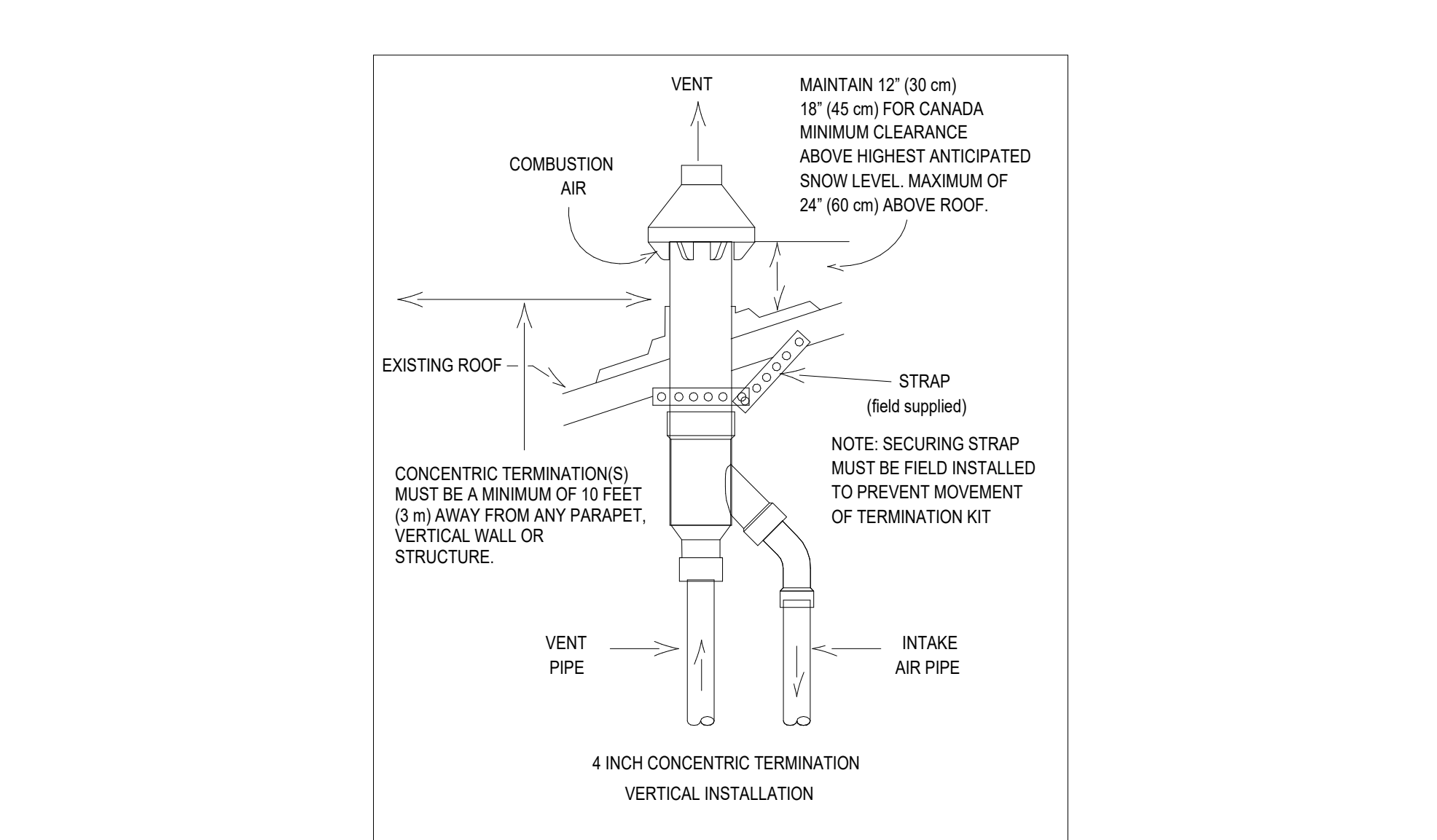
1 ROOF GAS PIPE SUPPORT & CONNECTION SCHEMATIC  
P-103 N.T.S



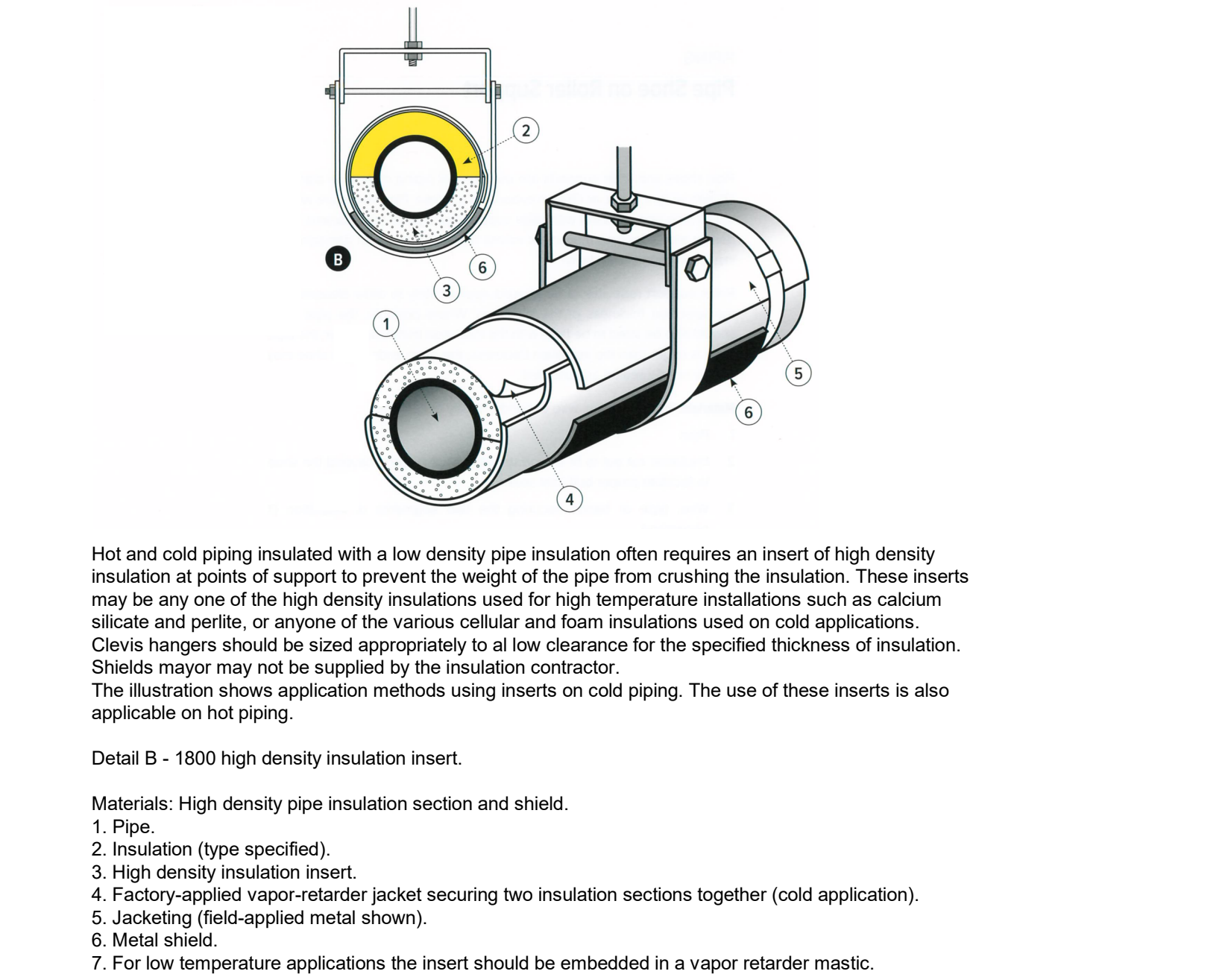
2 CONDENSATE DRAIN TRAP SCHEMATIC  
P-103 N.T.S



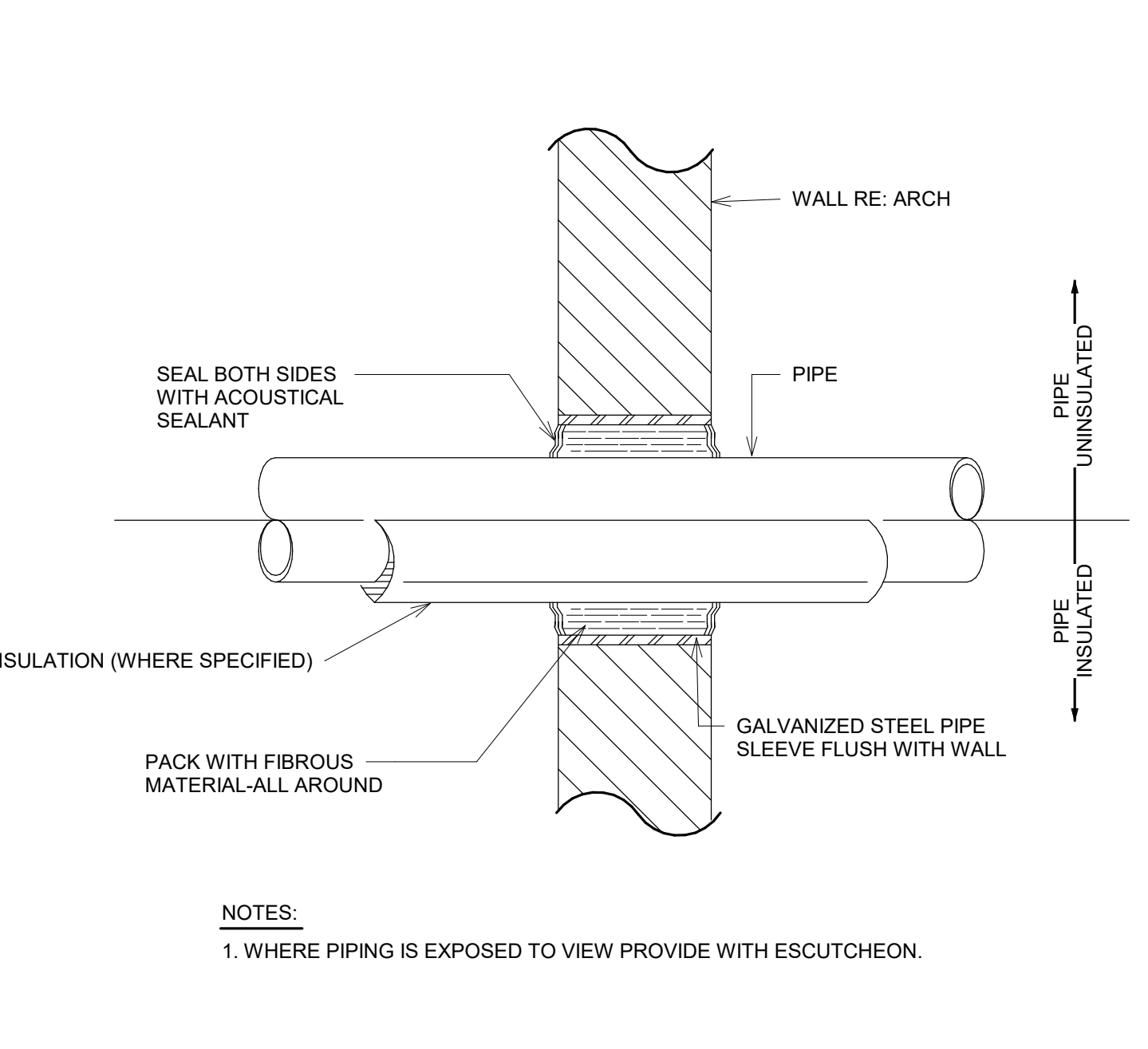
3 CONDENSATE KIT INSTALLATION SCHEMATIC  
P-103 N.T.S



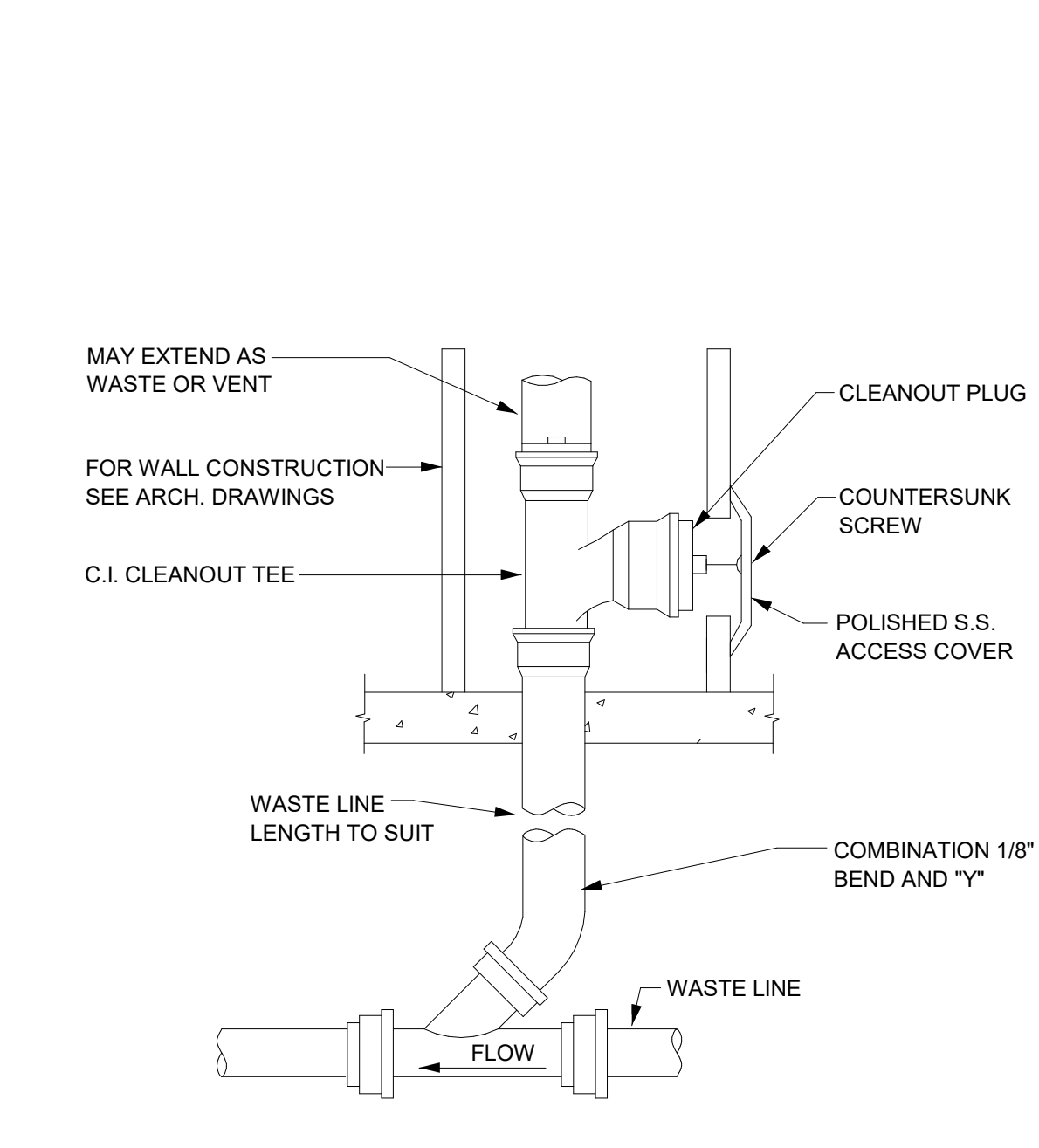
4 CONCENTRIC TERMINATION VERTICAL INSTALLATION SCHEMATIC.  
P-103 N.T.S



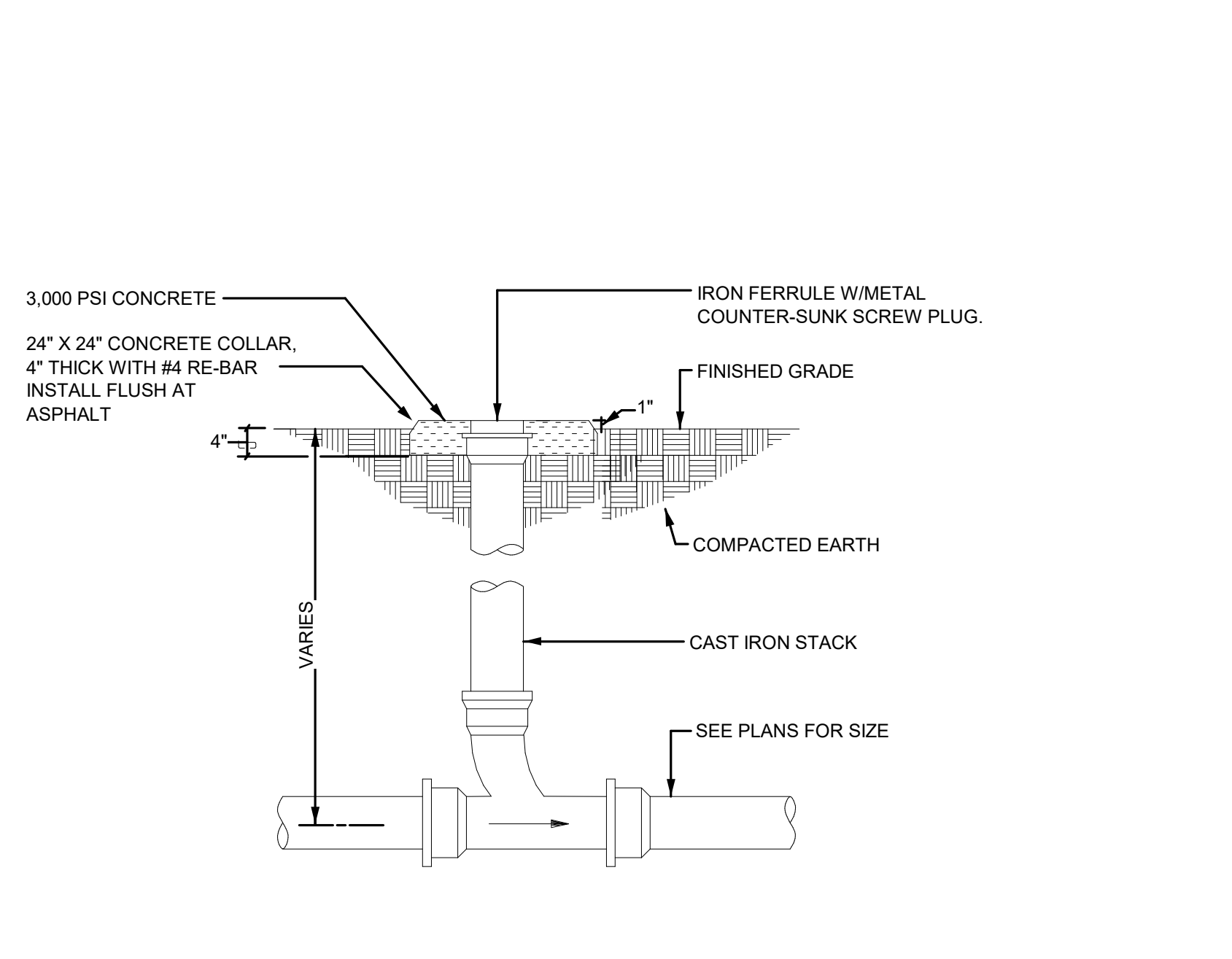
5 CLEVIS HANGER- HIGH DENSITY INSERTS SCHEMATIC  
P-103 N.T.S



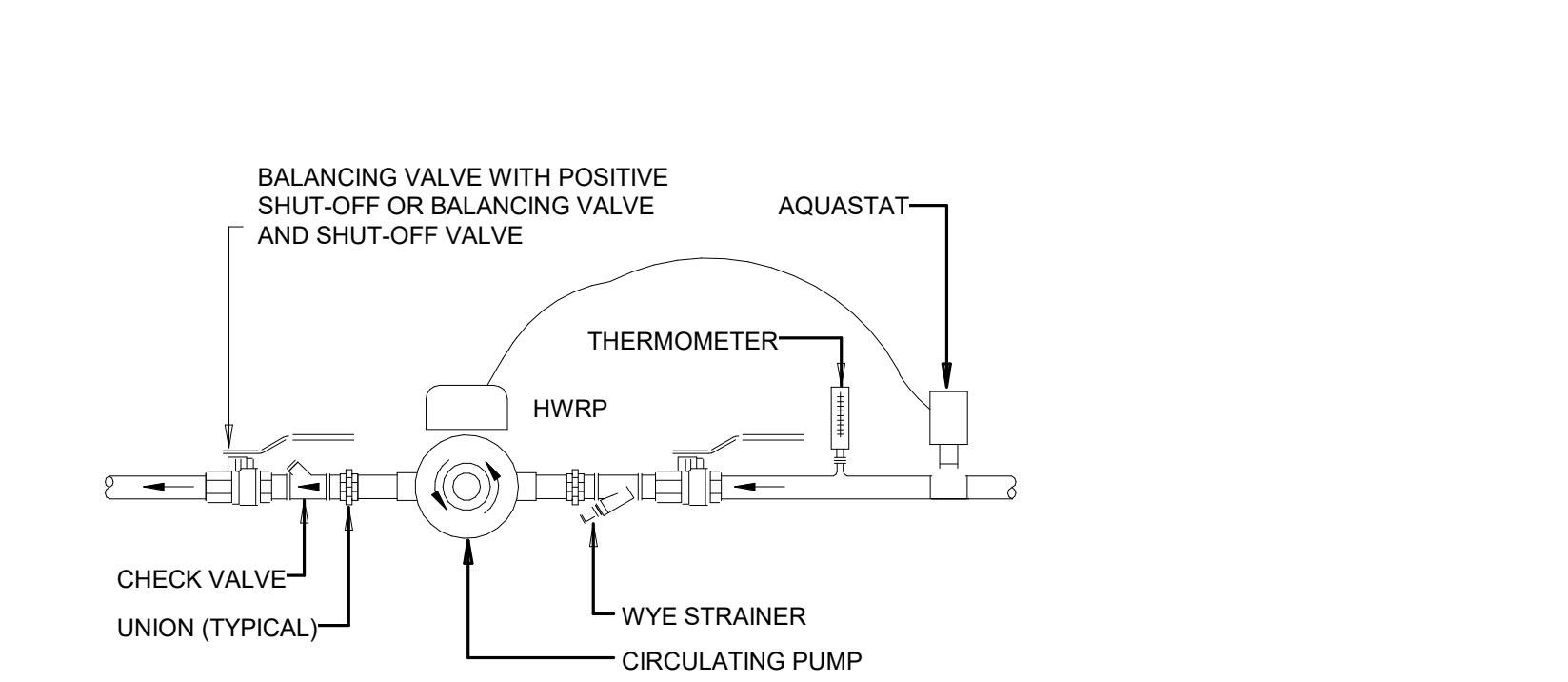
6 DETAIL - PIPE PENETRATION THRU NON-RATED WALL  
P-103 N.T.S



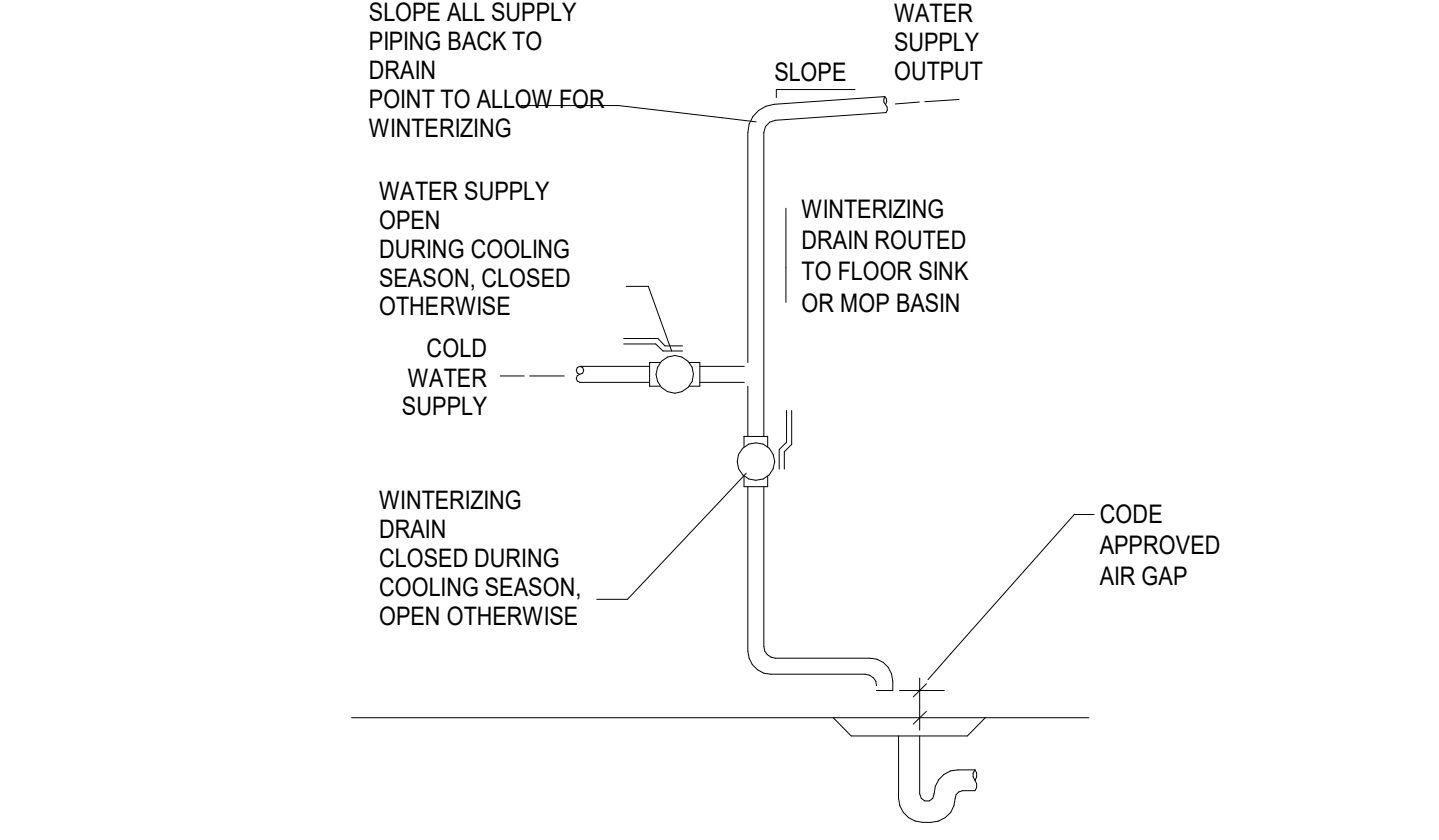
7 WALL CLEANOUT SCHEMATIC  
P-103 N.T.S



8 CLEANOUT TO GRADE DETAIL  
P-103 N.T.S



9 RECIRCULATING HOT WATER PUMP SCHEMATIC  
P-103 N.T.S



10 EVAPORATIVE COOLER WATER SUPPLY / DRAIN SCHEMATIC.  
P-103 N.T.S

10 EVAPORATIVE COOLER WATER SUPPLY / DRAIN SCHEMATIC.  
P-103 N.T.S

DRAWN BY: Author  
PROJECT NO: 2022-16  
ISSUED: 10/24/2022

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DISTRICT CAFETERIA CONVERSION  
300 OIL MILL DR. | TORNILLO, TX 79853

SHEET TITLE:

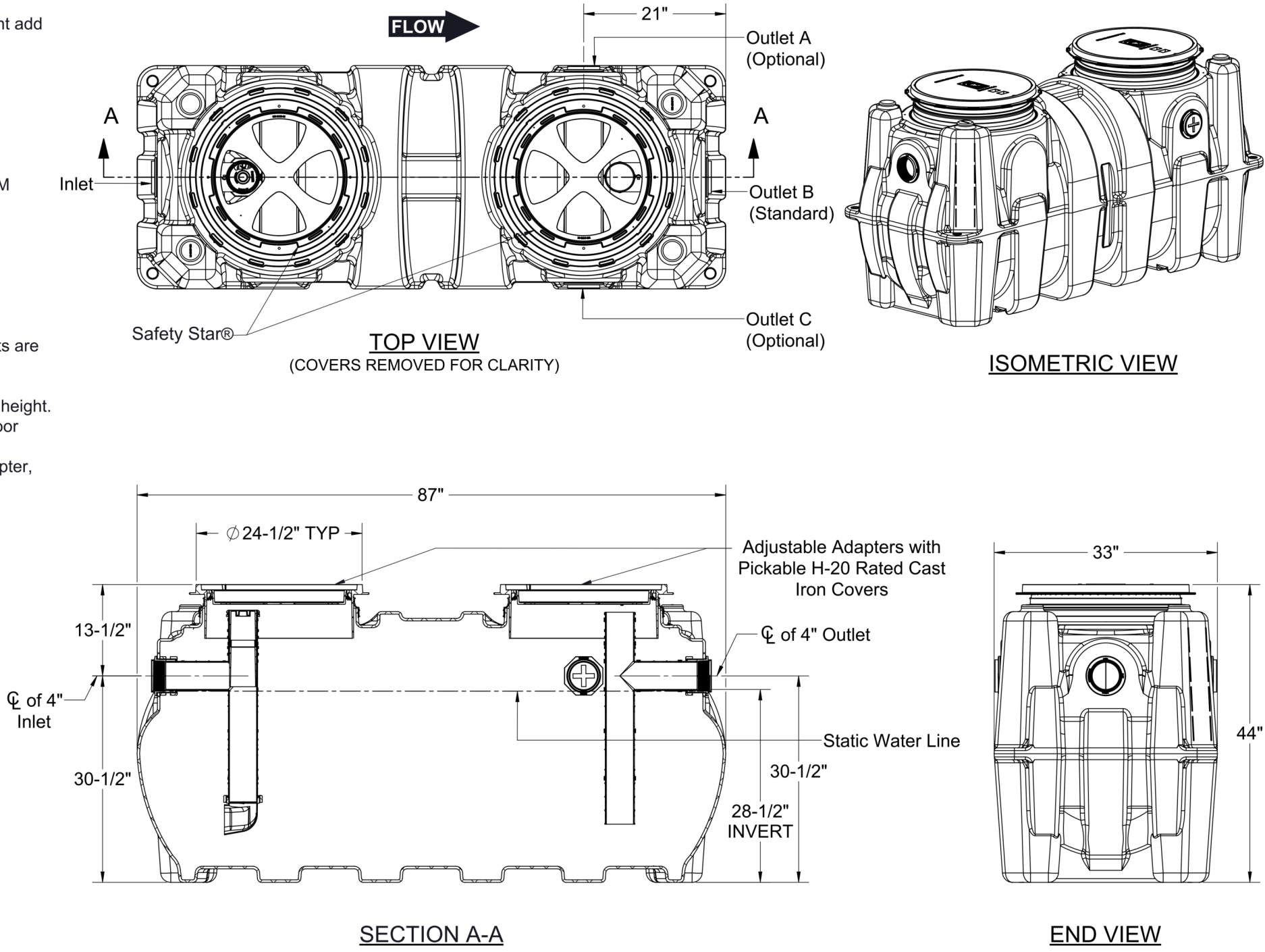
PLUMBING SCHEDULES & SCHEMATICS

Project Status

P-103



- SPECIFICATIONS**
- Notes:
- 4" FPT inlet/outlet with 4" plain end adapters, single inlet and triple outlet.
  - Unit weight - w/ cast iron covers: 376 lbs. (For wet weight add 2,310 lbs.)
  - Maximum operating temperature: 150° F continuous
  - Capacities - Liquid: 277 gal.; Grease: 1,895 lbs. (260 gal.) @100GPM Grease: 1,196 lbs. (164 gal.) @200GPM Solids: 69 gal.
  - This unit does not require flow control for 100 GPM applications. Built-in flow control is provided for 200 GPM applications. For series installations, only install flow control on the first unit in the series if necessary. For gravity drainage applications only.
  - Do not use for pressure applications.
  - Cover placement allows full access to tank for proper maintenance.
  - Vent not required unless per local code.
  - Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
  - Integral air relief / Anti-siphon / Sampling access.
  - Adjustable cover adapters provide up to 4" of additional height.
  - Designed for below-grade, above-grade, indoor or outdoor installations.
  - Safety Star®, access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).



**ENGINEER SPECIFICATION GUIDE**

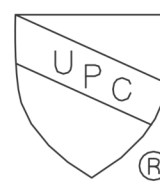
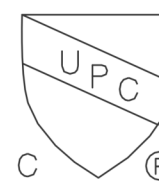

Schier Great Basin™ grease interceptor model # GB-250 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapters. Safety Star® access restrictor built into each cover adapter, built-in flow control (for 200 GPM only) and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type D for 100 GPM, type C for 200 GPM) and CSA B481.1. Interceptor flow rate shall be 100 GPM or 200 GPM. Interceptor grease capacity shall be 1,895 lbs. @ 100 GPM or 1,196 lbs. @ 200 GPM. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

**CERTIFIED PERFORMANCE**

Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease Interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

Type D certification does not require a flow control

### SPECIFICATION SHEET

MODEL NUMBER:  <b>GB-250</b>	PART NUMBER: 4055-007-02		   <b>SCHIER</b>  6455 Woodland Dr Shawnee, KS 66218 Tel: 913-951-3300 Fax: 913-951-3399 schierproducts.com	
PROPRIETARY AND CONFIDENTIAL <small>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCHIER PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SCHIER PRODUCTS IS PROHIBITED.</small>	DESCRIPTION: GB-250 GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVERS			
DWG BY: C.SINCLAIR		DATE: 5/4/2022	REV: -	ECO: -

### GREASE INTERCEPTOR CALCULATIONS

Reference No. 44570 Project Name: Tornillo HS Kitchen

#### Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
hand sink	Hand Sink	10" x 14" x 5"	2	1,400	2.26 GPM
ice machine	Ice Machine (with drain)	N/A	1	N/A	0.5 GPM
mop sink	Mop Basin	24" x 24" x 10"	1	5,760	9.35 GPM
pre-rinse	Pre-Rinse Sink One Bowl	20" x 20" x 5"	1	2,000	3.25 GPM
three comp sink	3 Compartment Sink	21" x 21" x 14" (3)	1	18,522	30 GPM
Trench drains	Floor Drain	N/A	4	N/A	N/A
Two Comp Sink	2 Compartment Sink	21" x 21" x 14" (2)	1	12,348	20 GPM
warming table	Warming Table (with drain)	N/A	1	N/A	0.5 GPM

**Total** 65.86 GPM

#### Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Number of meals served per day: 400

Grease production value: 0.0455 lbs per serving (Cafeteria - Full Serve: High / Flatware)

Days between pump-outs: 90 days

400 x 0.0455 x 90 = 1638 lbs of FOG

<b>SCHIER MODEL</b>	<b>Description:</b> Polyethylene Grease Interceptor <b>Dimensions:</b> Length: 87", Width: 33", Height: 44" <b>Flow Rates/Grease Capacities:</b> 100 GPM / 1895.0 lbs <b>Liquid Capacity:</b> 277 gal
<b>GB-250</b>	

### 1 GREASE INTERCEPTOR SUBMITTAL

P-104 N.T.S



A. O. Smith  
Phone: 1.866.362.9898  
www.hotwater.com

### Pro-Size Selection Report

October 22, 2022

### Project Information

Project #: Prepared for:  
Project Name: Prepared by:  
Location: Engineer:  
Contractor: Contractor:

### Selected Product

#### BTH-400 Mxi

#### Cyclone® Mxi Modulating

# Heaters: 1 Heater Recovery: 575 USGPH @ 80 °F Rise  
Model Number: BTH-400 Mxi 1st Hour Delivery: 658 USGPH  
Heater Storage (ea): 119 USG 3 Hour Average: 603 USGPH  
Input (ea): 399,900 Btu/hr Est. Storage Recovery: 12 min  
New External Tanks: 0 % Of Demand: 110%  
Tank Capacity (ea): 0 USG  
Total Usable Storage: 83 USG



Model Number	Hi Cube Trailer Load Factor	Gallon Capacity	Recovery Capacity GPH 100 Degree Rise	Input BTU/HR	Height	Diameter	Approx. Shipping Weight (lbs.)
BTH-400 Mxi	3.33	119	460	399,900	75.75	33.12	825

- Standard and Low profile concentric vent available
- Vents with PVC, CPVC polypropylene and AL-29-4C Stainless steel
- Venting distances of up to 120' on all models
- Meets or exceeds the thermal efficiency and/or standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1
- Meets NSF requirements (no leg kit needed)
- Up to 98% Thermal Efficiency
- Down-Fired Low-NOx Powered-Burner Design
- Fully Submerged, Spiral-Shaped Condensing Heat Exchanger
- Complies with SCAQMD Rule 1146.2
- Sidewall and Vertical power vent and direct Vent Options
- Space-Saving Design, with Zero Clearance to Combustibles

### Application Loads

#### Summary

Peak Demand: 600 USGPH Temperature Rise: 80 °F

#### Application Settings

Type: Food Service / Restaurant  
Building Use: Not Specified Cold Water Temp: 60 °F  
Peak Demand Period: 1.00 Hours Stored Water Temp: 140 °F  
Equipment: Water Heaters Only (no external storage) Approx. Storage: 25%  
Fuel Type: Natural Gas # Storage Tanks: Not Specified  
Location: Indoor Existing Storage: None

The A. O. Smith Pro-Size sizing program is a tool that can be used to estimate water heater requirements for many common applications. Pro-Size is intended to assist in selecting water heaters or boilers that best meet the specific job requirements. It is the sole responsibility of the system designer to select the correct products needed for the specific application. A. O. Smith reserves the right to make changes to Pro-Size without notice.

Page 1 of 2

### 2 WATER HEATER SUBMITTAL

P-104 N.T.S

The A. O. Smith Pro-Size sizing program is a tool that can be used to estimate water heater requirements for many common applications. Pro-Size is intended to assist in selecting water heaters or boilers that best meet the specific job requirements. It is the sole responsibility of the system designer to select the correct products needed for the specific application. A. O. Smith reserves the right to make changes to Pro-Size without notice.

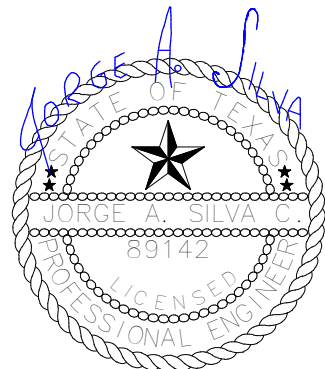
Page 2 of 2

## Countryman & Co. Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.919.1827



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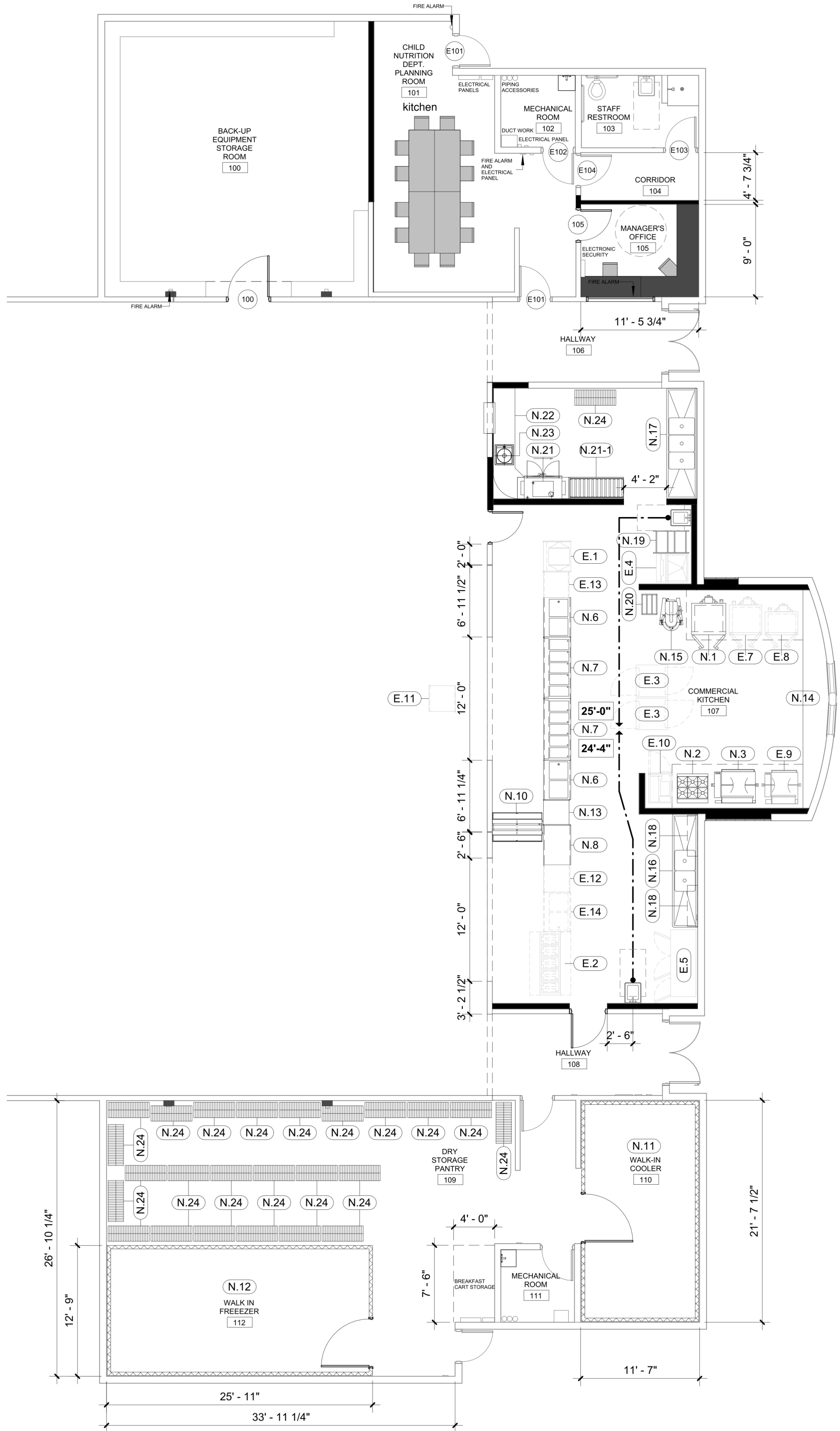
SHEET TITLE:

## PLUMBING SCHEDULES & SCHEMATICS

Project Status

P-104





01 KITCHEN EQUIPMENT PLAN  
1/8" = 1'-0"

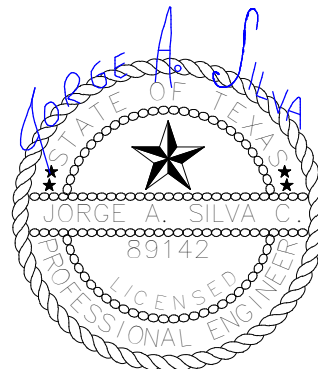


Countryman & Co.  
Architecture

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## NEW EQUIPMENT SCHEDULE

NO.	QTY.	SYMBOL	IMAGE	SIZE	DESCRIPTION	MANUFACTURER   MODEL NO.	PROVIDER   INSTALLER
ELECTRIFIED AND   OR PLUMBED EQUIPMENT							
N.1	1			70" H * 40" W * 46 1/4" D	GAS CONVECTION OVEN	VULCAN   VC66GD	OWNER   GC
N.2	1			58" H * 36" W * 34" D	STANDARD OVEN 6 BURNERS PROPANE	VULVAN   36S-6BP	OWNER   GC
N.3	1			43 1/2" H * 48 W * 39 1/4" D	GAS TILTING SKILLET BRAISING PAN	GROEN   BPM-40GA	OWNER   GC
N.4					FLOOR TROUGH REFER TO ENGINEER		GC   GC
N.5					EXHAUST HOOD REFER TO ENGINEER		GC   GC
N.6L N.6R	2			36" H * 32" W * 32" D	SERVING COUNTER, COLD FOOD	DUKE   TCM-32PG-N7	OWNER   GC
N.7L N.7R	2			36" H * 72" W * 32" D	SERVING COUNTER, HOT FOOD	DUKE   TEHF-74PG	OWNER   GC
N.8	1			36" H * 46" W * 32" D	SERVING COUNTER, UTILITY	DUKE   TST-46PG	OWNER   GC
N.9	NOT USED			36" H * 30" W * 32" D	CASH REGISTER STAND	DUKE   TCS-30PG	OWNER   GC
N.10	1			47 3/4" H * 58" W * 34" D	MILK COOLER	BEVERAGE AIR   STF5HC-1-W-02	OWNER   GC
N.11	1				WALK-IN COOLER		GC   GC
N.12	1				WALK-IN FREEZER		GC   GC
N.13	1			30" W * 30" D	TABLE		OWNER   GC
N.14	1				CUSTOM STAINLESS STEEL TABLE		GC   GC
N.15	1			26 1/2" W * 26 9/16" D * 47 1/8" H	40 QUARTS MIXER	VOLLRATH   MIX1040	OWNER   GC
N.16	1				CUSTOM 2 COMPARTMENT SINK WITH STAINLESS STEEL DRAIN BOARDS	CUSTOM EQUIPMENT	GC   GC
N.17	1				CUSTOM 3 COMPARTMENT SINK	CUSTOM EQUIPMENT	GC   GC
N.18	2			12" D * 48" L	WALL MOUNTED SHELF	ADVANCE TABCO   WS-12-48	OWNER   GC
N.19	2			20 1/4" W * 26 1/2" L * 69" H	20 PAN ALUMINUM PAN RACK WA CASTERS KTI	KLINGER'S TRADING, INC.   PANRACK20	OWNER   OWNER
N.20	1			24" W * 18" D * 8" H	ALUMINUM DUNNAGE RACK	GLOBAL INDUSTRIAL   799142	OWNER   OWNER
N.21 N.21-1	1				RACK CONVEYOR DISHWASHING MACHINE (R-L)	CHAMPION   44 DR	GC   GC
					ROLLER CONVEYOR TABLE	CHAMPION   RCT64 TABLE	
N.22	1				CUSTOM STAINLESS STEEL TABLE	CUSTOM EQUIPMENT	GC   GC
N.23	1			24 1/2" W * 26 13/16" L	SCRAP COLLECTOR	SALVAJOR   S914	OWNER   GC
N.24	25			18" D * 48" L	EPOXY SHELF WITH LOCKING WHEELS		OWNER   OWNER

## EXISTING EQUIPMENT SCHEDULE

NO.	QTY.	SYMBOL	IMAGE	SIZE	DESCRIPTION	MANUFACTURER   MODEL NO.	PROVIDER   INSTALLER
ELECTRIFIED AND   OR PLUMBED EQUIPMENT							
E.1	1			36 1/4" W * 33" D	REFRIGERATOR SELF-SERVICE CASE ( MILK COOLER)	OASIS   CO34R	EXISTING   GC
E.2	1			74" L * 48" D	5 BIM WARMER	DUKE   EP305-25	EXISTING   GC
E.3	2			35" W * 36 7/8" D	ROLL-THRU SOLID DOUBLE DOORS HEATED CABINET	TRUE   TG1HRT-1S-1S	EXISTING   GC
E.4	1			33" W * 37" D	ICE STORAGE BIN	SCOTSMAN   B530P	EXISTING   GC
E.5	1			78 1/8" L * 29 1/2" D	3 SOLID DOOR REFRIGERATOR	TRUE   T-72	EXISTING   GC
E.6	NOT USED						EXISTING
E.7	1			38" W * 44 7/8" D	GAS CONVECTION OVEN	IMPERIAL	EXISTING   GC
E.8	1			38 1/4" W * 36 7/8" D	GAS CONVECTION OVEN	BLODGETT   DFG-200	EXISTING   GC
E.9	1			38 1/2" W * 39 1/4" D	BRAISING PAN	GROEN ECLIPSE   M-30G	EXISTING   GC
E.10	1			27 1/2" W * 34 7/8" D	HEATED HOLDING CABINET	MCCALL   4020-HP	EXISTING   GC
E.11	1			30" W * 31" D	REGISTER STAND		
E.12	1			32" W * 31" D	TABLE		
E.13	1			30" W * 30" D	TABLE		
E.14	1			36" H * 32" W * 32" D	SERVING COUNTER, COLD FOOD	DUKE   TCM-32PG-N7	EXISTING   GC

### LEGEND

	EQUIPMENT REFER TO KITCHEN EQUIPMENT SCHEDULE
	FURNITURE OWNER PROVIDED   OWNER INSTALLED
	MILLWORK CONTRACTOR PROVIDED   CONTRACTOR INSTALLED

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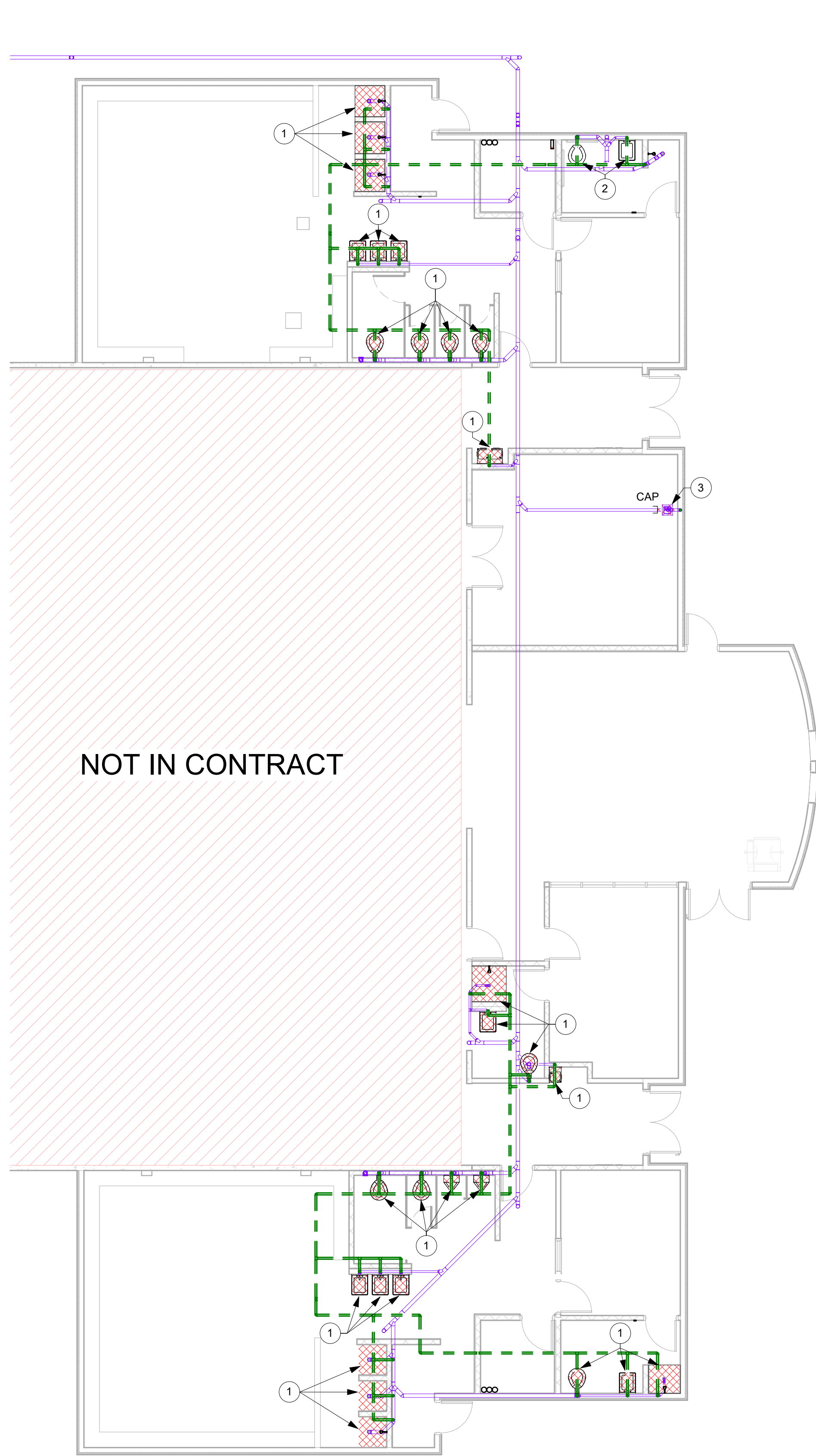
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PLUMBING SCHEDULES & SCHEMATICS

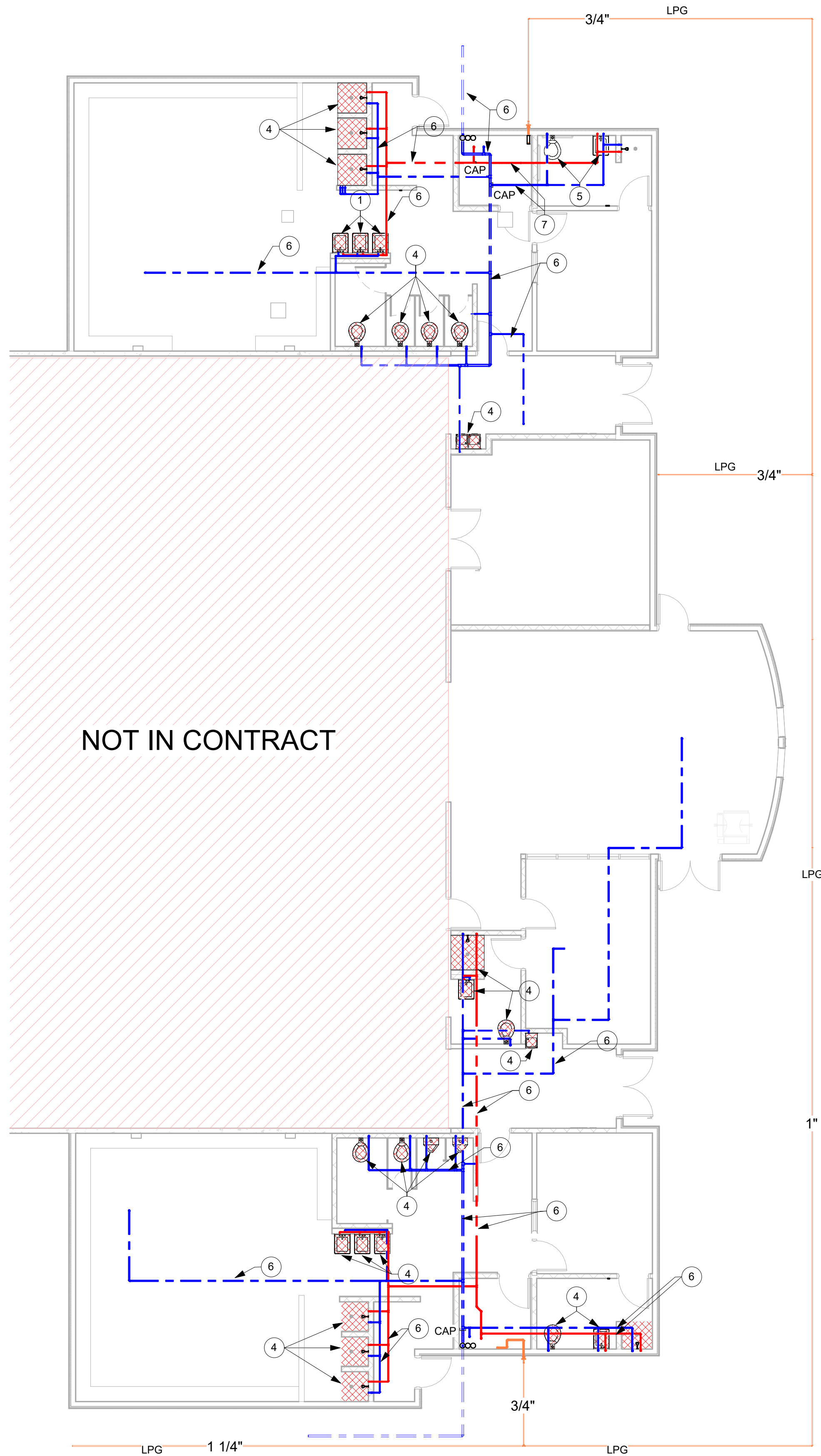
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P-105





1 1ST LEVEL WASTE & VENT PLUMBING DEMOLITION PLAN  
P-200 1/8" = 1'-0"



2 HOT & COLD WATER PLUMBING DEMOLITION PLAN  
P-200 1/8" = 1'-0"

## KEYED NOTES

1. HOT AND COLD WATER, SEWER AND VENT LINES ASSOCIATED WITH PLUMBING FIXTURE SHALL BE REMOVED AND CAPPED BACK TO MAIN. PATCH WALL AS REQUIRED TO MATCH EXISTING.
2. EXISTING FIXTURE UNIT SHALL REMAIN UNDISTURBED.
3. EXISTING FLOOR SINK SHALL BE REMOVED FROM SITE. NEW FLOOR SINK SHALL BE INSTALLED IN THE SAME PLACE. ASSOCIATED SEWER LINE SHALL BE CAPPED BACK TO ALLOW SPACE FOR NEW SEWER LINE.
4. PLUMBING FIXTURES SHALL BE REMOVED FROM SITE. HOT AND COLD WATER, SEWER AND VENT LINES ASSOCIATED WITH PLUMBING FIXTURE SHALL BE CAPPED BACK TO WALL AND BE ABANDONED IN PLACE.
5. EXISTING FIXTURE UNIT SHALL REMAIN UNDISTURBED.
6. EXISTING DOMESTIC WATER LINE SHALL BE ABANDONED IN PLACE.
7. PIPE SEGMENT SHALL BE REMOVED AND CAPPED BACK TO MAIN. REMAINDER OF PIPING SERVING RESTROOM SHALL REMAIN AND SERVE AS POINT OF CONNECTION FOR NEW DOMESTIC WATER PIPING.

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Architecture

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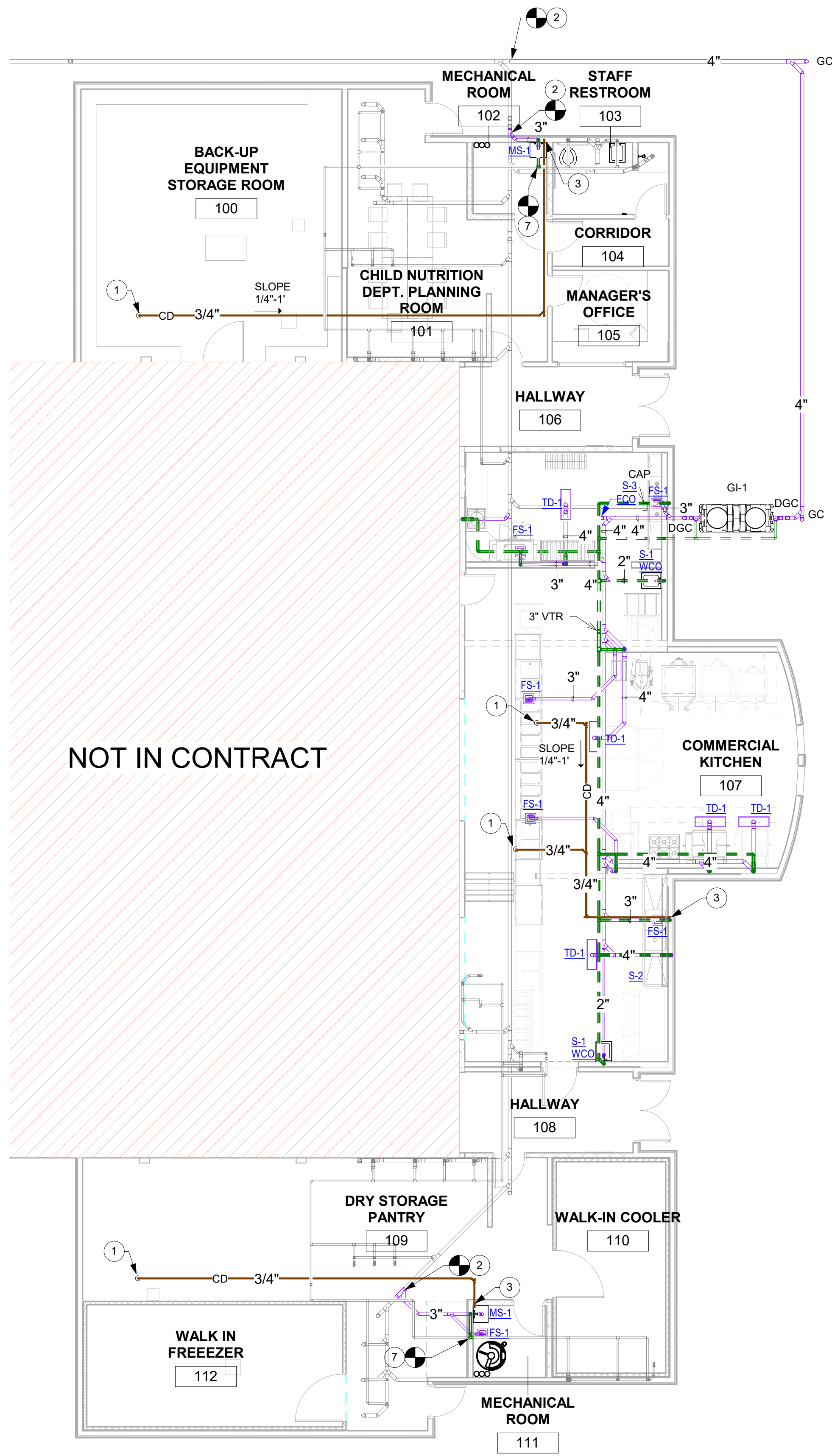
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PLUMBING DEMOLITION PLAN

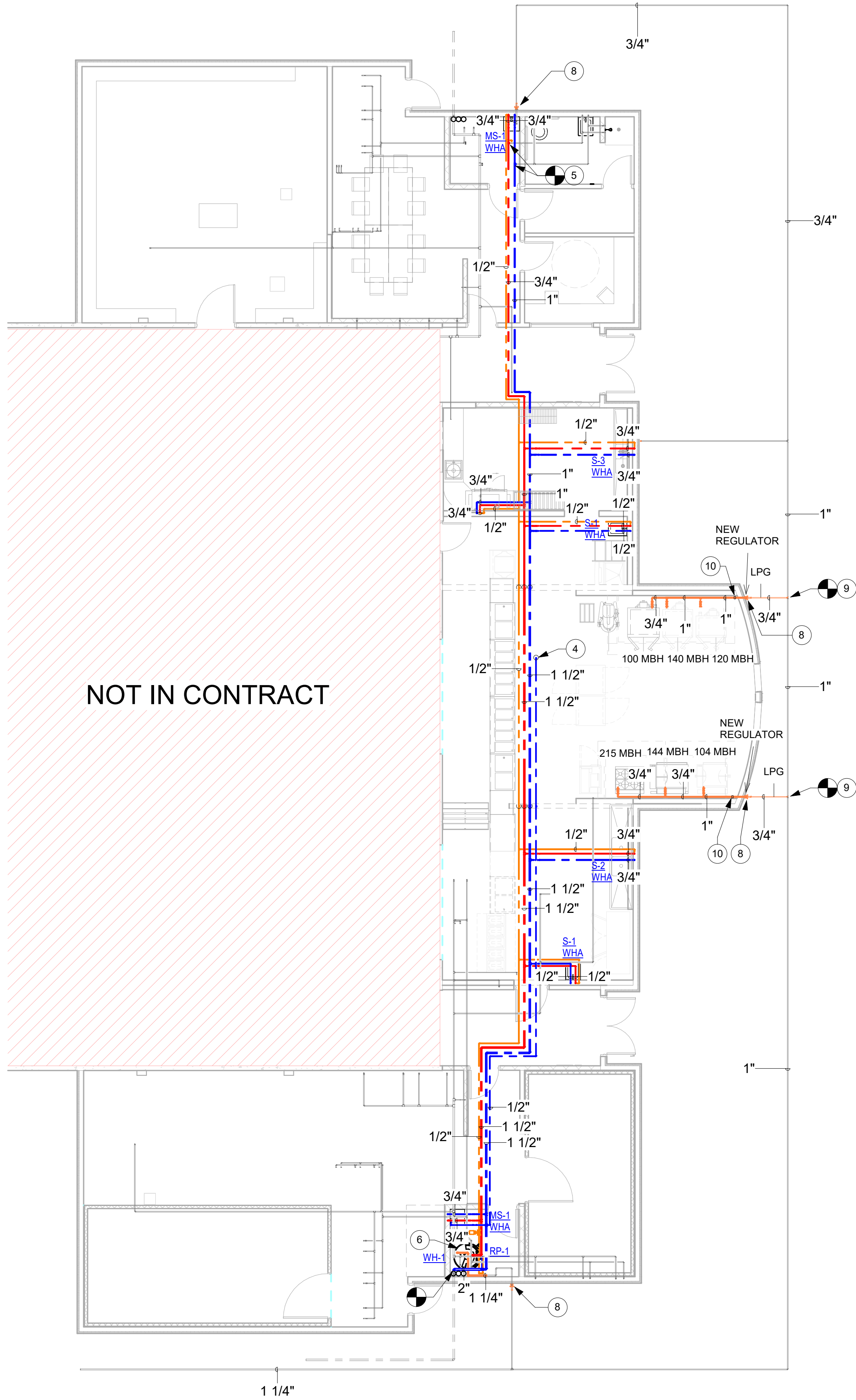
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P-200





1 1ST LEVEL WASTE & VENT PLUMBING IMPROVEMENT PLAN  
P-300 1/8" = 1'-0"



2 1ST LEVEL HOT & COLD WATER PLUMBING IMPROVEMENT PLAN  
P-300 1/8" = 1'-0"

ALL NEW ND EXISTING  
GAS PIPING SHALL BE  
TESTED PER 2015 IFGC.

## KEYED NOTES

- 3/4" CONDENSATE DRAIN LINE DOWN FROM ROOF TOP UNIT. INSULATE ALL PIPING AS SPECIFIED.
- CONNECT NEW SEWER LINE TO EXISTING SEWER MAIN.
- EXTEND CONDENSATE DRAIN LINE OVER MOP SINK. TERMINATE 1".
- DOMESTIC WATER PIPE GOES UP TO MAKE UP AIR UNIT EVAPORATIVE MODULE. REFER TO EVAPORATIVE COOLER WATER SUPPLY/DRAIN SCHEMATIC.
- CONNECT NEW WATER PIPING TO EXISTING WATER PIPING SERVING RESTROOM PLUMBING FIXTURES.
- EXTEND (2) 4" SCH 40 PVC PIPES FROM NEW WATER HEATER AND CONNECT TO CONCENTRIC AO SMITH VENT KIT. REFER TO SCHEMATIC PLANS FRO MORE INFORMATION. ALIGN VENT THROUGH EXISTING ROOF PENETRATION.
- CONNECT VENT SERVING NEW FIXTURES TO EXISTING VENT PIPING.
- PROVIDE AND INSTALL NEW LPG REGULAR CAPABLE OF HANDLING LISTED PEAK LOAD DEMAND AT A DISCHARGE PRESSURE OF 14" W.C.
- CONNECT NEW P.E. GAS LINE TO EXISTING GAS MAIN.
- CONTRACTOR SHALL INSTALL NEW GAS SOLENOID VALVE. INTERLOCK WITH ANSUL/KITCHEN VENTILATION SYSTEM.

## GAS LOAD DEMAND CALCULATION

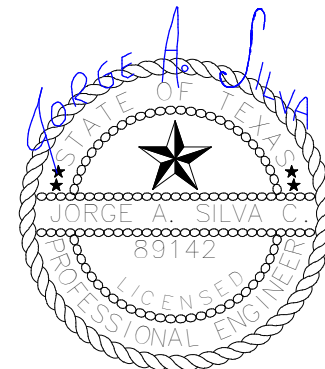
MARK	DESCRIPTION	MBH
N-1	CONVECTION OVEN	100
N-2	RANGE / OVEN	215
N-3	TILTING SKILLET	144
E-7	DOUBLE OVEN	160
E-8	DOUBLE OVEN	120
E-9	TILTING SKILLET	104
RTU-OFFICE	PACKAGED ROOF TOP	67.2
RTU-PSNTRY	PACKAGED ROOF TOP	67.2
RTU-KITCHEN	PACKAGED ROOF TOP	100.8
WH-1	WATER HEATER	399

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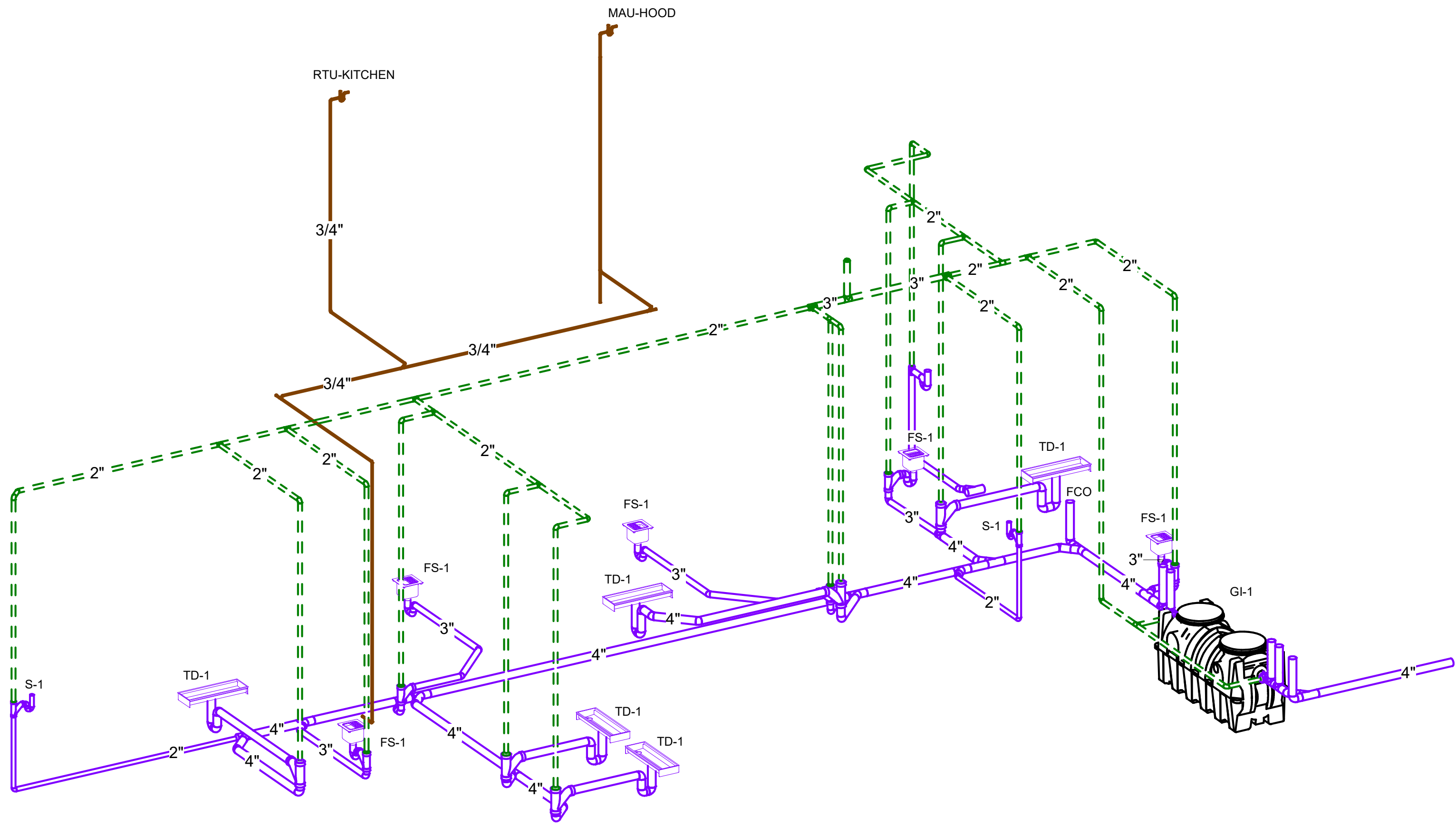
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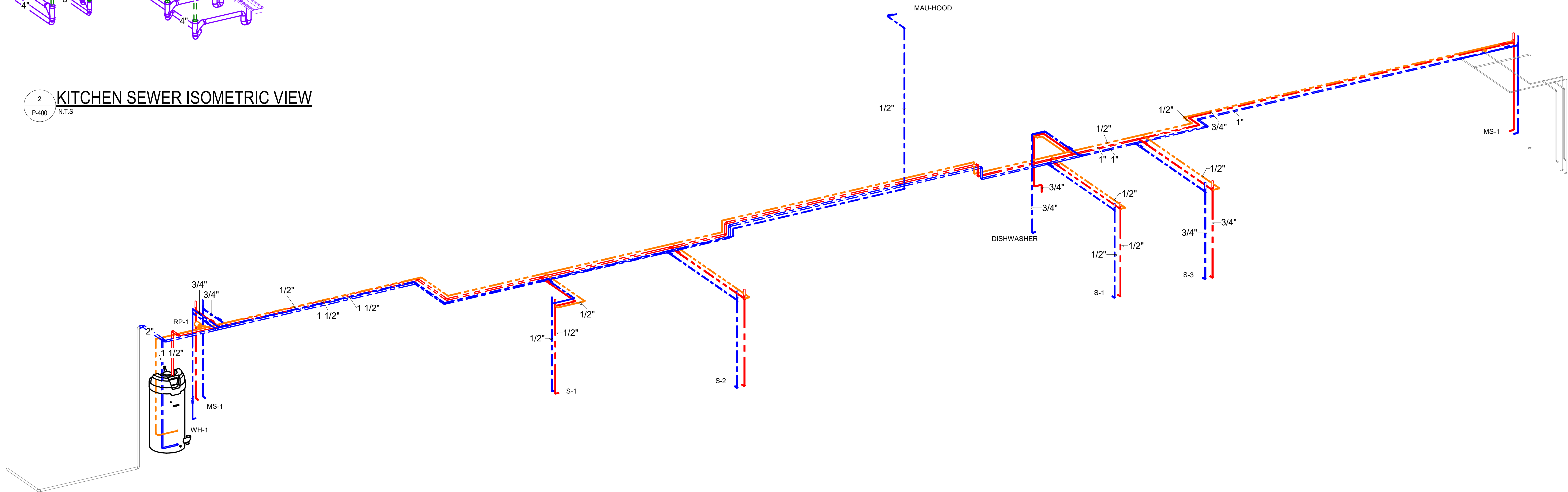
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P-300





2 KITCHEN SEWER ISOMETRIC VIEW  
P-400 N.T.S



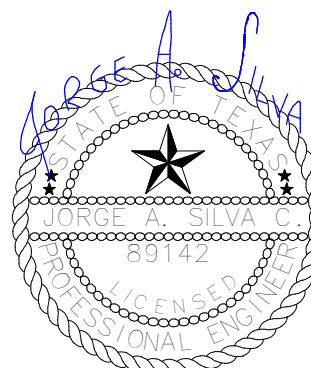
1 KITCHEN HOT & COLD WATER ISOMETRIC VIEW  
P-400 N.T.S

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SHEET TITLE:

PLUMBING ISOMETRIC VIEWS

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