

**MEANS OF EGRESS FLOOR PLAN**  
1" = 10'-0"

**CODE PLAN LEGEND**

- X'-0" ACTUAL TRAVEL DISTANCE
- OCCUPANT LOAD SUM AT DOOR OR EXIT
- 2 HOUR RATED WALL ASSEMBLY
- EXIT SIGN
- FIRE EXTINGUISHER (WALL MOUNTED)
- FIRE EXTINGUISHER CABINET
- AED (AUTOMATED EXTERNAL DEFIBRILLATOR) AND HORN
- "ALERT" WALL MOUNTED DEVICE

**MINIMUM PLUMBING FACILITIES**

(IBC TABLE 2902.1)

OCCUPANT LOAD:  
B = 291 PERSONS ( 145 MEN + 146 WOMEN)  
S-1 = 4 PERSONS ( 2 MEN + 2 WOMEN)

	MEN		WOMEN	
	WC (RATIO)	LAV (RATIO)	WC (RATIO)	LAV (RATIO)
B	3.90 (1+1:50)	2.8 (1+1:80)	3.92 (1+1:50)	2.8 (1+1:80)
S-1	0.02 (1:100)	0.02 (1:100)	0.02 (1:100)	0.02 (1:100)
TOTAL	3.92	2.82	3.94	2.82
REQ'D	4	3	4	3
PROV'D	4	5	7	8

NOTE: EXISTING DRINKING FOUNTAINS TO REMAIN.

**EXITING REQUIREMENTS**

REQUIRED EXITS FROM SPACE: (IBC TABLE 1006.2)

(GROUP B, MIXED USE - 296 PERSONS)  
2 EXIT REQUIRED (TABLE 1015.1) - **3 PROVIDED**

EXIT ACCESS TRAVEL DISTANCE: (IBC SECTION 1017.2)

MAXIMUM ALLOWABLE DISTANCE (WITH SPRINKLERS)	S-1 = 250' ALLOWABLE
	B = 300' ALLOWABLE
MAXIMUM ACTUAL DISTANCE	S-1 = 102' ACTUAL
	B = 140' ACTUAL

COMMON PATH TRAVEL DISTANCE: (IBC SECTION 1016.2.1)

MAXIMUM ALLOWABLE DISTANCE (MIXED USE - WITH SPRINKLERS)	B, S-1 = 100' PERMITTED
MAXIMUM ACTUAL DISTANCE	= 53' ACTUAL

EXIT DOOR REQUIREMENTS:

- (IBC SECTION 1005, SECTION 1010, SECTION 1013)
- DOOR SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE. (IBC SECTION 1010.1.2.1)
- EGRESS DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. (IBC 1010.1.9)
- MINIMUM EXIT WIDTH SHALL BE 32" CLEAR (36" NOMINAL DOOR WIDTH).
- PROVIDE TACTILE SIGNS STATING "EXIT" AND COMPLYING WITH ICC A117.1 AT BUILDING EXIT DOORS.

ACCESSIBLE MEANS OF EGRESS: (IEBC SECTION 305.6):

EXCEPTION 1: ACCESSIBLE MEANS OF EGRESS ARE NOT REQUIRED IN ALTERATIONS TO EXISTING BUILDINGS.

ELEVATOR LOBBY: (IBC SECTION 3006):

EXCEPTION 4: ENCLOSED ELEVATOR LOBBIES ARE NOT REQUIRED WHERE THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2.

HIGH-RISE BUILDING: (IBC SECTIONS 202, 403):

TOP FLOOR OF THE BUILDING (6TH FLOOR) IS LOCATED 67 FEET ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS.

67 FEET < 75 FEET **NOT HIGH-RISE BUILDING**

**OCCUPANCY**

MIXED USE: **NON-SEPARATED OCCUPANCY** (IBC 302.1 & 508.3)

OFFICES/ GENERAL USE STORAGE GROUP B  
GROUP S-1

TENANT USE: NO CHANGE IN OCCUPANCY OF SPACE

OFFICES/ GENERAL USE STORAGE GROUP B

OCCUPANCY LOADS (3RD FLOOR):

B GENERAL OFFICE	16,973 sf (100 gross)	170 Persons
B CONF/ WAITING/ BREAK	1,804 sf (15 net)	121 Persons
S-1 STORAGE	1,198 sf (300 gross)	4 Persons

TOTAL 19,975 sf 295 Persons

**CONSTRUCTION REQUIREMENTS**

CONSTRUCTION TYPE (IBC TABLE 601): TYPE I-B, SPRINKLERED

REQUIRED FIRE RESISTANCE

(IBC TABLES 601 & 602, 713.4, 3002)	
STRUCTURAL FRAME	2 HR
BEARING WALLS	2 HR
EXTERIOR INTERIOR	2 HR
NONBEARING WALLS & PARTITIONS	0 HR X>30'
EXTERIOR INTERIOR	0 HR
FLOOR CONSTRUCTION	2 HR
ROOF CONSTRUCTION	1 HR
EXTERIOR DOORS & WINDOWS	NON RATED

FIRE RESISTIVE SYSTEMS RATING:

SHAFT ENCLOSURES	2 HR
EXIT ENCLOSURES	2 HR
ELEVATOR ENCLOSURES	2 HR

FIRE RESISTIVE RATED SEPARATIONS:

OCCUPANCY SEPARATIONS	NONE
MIXED USE NON-SEPARATED OCCUPANCY (IBC 508.3)	
CORRIDOR RATING (IBC TABLE 10120.1)	0 HR

**BUILDING CODE INFORMATION**

OWNER: MARICOPA COMMUNITY COLLEGES DISTRICT  
RIO SALADO COLLEGE

PROJECT ADDRESS: 2323 W. 14TH STREET, TEMPE, AZ 85281

CODES/ ORDINANCES:

- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2018 INTERNATIONAL MECHANICAL CODE (IMC)
- 2018 INTERNATIONAL PLUMBING CODE (IPC)
- 2017 NATIONAL ELECTRICAL CODE (NEC)
- 2012 INTERNATIONAL FIRE CODE (IFC)
- 2003 ICC/ANSI A 117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- 2018 "FM GLOBAL" INSTALLATION GUIDELINES FOR AUTOMATIC SPRINKLERS

PROJECT SCOPE: ALTERATIONS TO THE EXISTING THIRD FLOOR OF SIX STORY BUILDING: APPROXIMATELY 19,975 SQUARE FEET OF OFFICE SPACE

EXISTING BUILDING ALTERATIONS (IEBC SECTION 305):

- NO CHANGE IN OCCUPANCY PROPOSED.
- NEW DOORS - ACCESSIBLE ROUTE IMPROVEMENTS, SECTION 305.7
- EXCEPTION 1: THE COSTS OF PROVIDING THE ACCESSIBLE ROUTE ARE NOT REQUIRED TO EXCEED 20% OF THE COST OF THE ALTERATIONS AFFECTING THE AREA OF PRIMARY ACTION

THIS PROJECT PROVIDES + TO 20% OF THE ALTERATION COST.

**DEFERRED SUBMITTALS**

AUTOMATIC FIRE SPRINKLER SYSTEM: (IBC SECTION 903.3.1)

ADJUST EXISTING SPRINKLER SYSTEM TO PROVIDE A FUNCTIONAL SPRINKLER SYSTEM PER NFPA 13 AND ALL APPLICABLE CODES THROUGHOUT THE PROJECT AREA.

FIRE ALARM & DETECTION SYSTEMS: (IBC SECTION 907)

INSTALL A CLASS A FIRE ALARM SYSTEM THROUGHOUT ALL PROJECT AREAS AS REQUIRED FOR A FUNCTIONAL SYSTEM ACCORDING TO ALL APPLICABLE CODES.



REVISIONS

No.	Description	Date

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KEY:

SHEET TITLE:  
**CODE ANALYSIS**

SHEET NUMBER:  
**G002**

DRAWN BY: EBL REVIEWED BY: MRD

DATE: 02/08/2021 PROJECT NUMBER: 1831.00







## ARCHITECTURAL SPECIFICATIONS, CONT.

### SECTION 10 44 13 - FIRE EXTINGUISHERS

285. Submit for Review: Product data.
286. Provide fire extinguishers at locations as required by code.
287. Rating of extinguishers to be 5A10BC, multi-purpose chemical type.

### SECTION 10 55 00 - MAIL CHUTES

288. Provide mail chute at locations indicated on drawings.
289. Submit for review: Product data and dimensions.
290. Basis of Design: Subject to compliance with requirements, provide Protex Wall-Mount drop box with adjustable through-wall chute as manufactured by Global Equipment Company or comparable product acceptable to Architect.
- a. Model EDC-160E Electronic Lock, 12"W x 6"Dx16"H
  - b. Provide manufacture's recommended mounting hardware.
291. Install according to manufacturer's written requirements.

### SECTION 12 21 13 - LOUVER BLINDS

292. Submit for Review:
- a. Product data, for each type of product.
  - b. Sample: For each type of exposed finish, submit sample for Architect's review.
293. Basis of design: Subject to compliance with requirements, provide Riviera horizontal aluminum blinds as manufactured by LEVOLOR or comparable product acceptable to Architect.
- a. 1" Horizontal Aluminum Mini Blinds, 6 Gauge, Standard Controls, Color: Dark Bronze
294. Slats: Aluminum; alloy and temper recommended by producer for type of use and finish indicated; with crowned profile and radius corners.
295. Headrail: Formed steel or extruded aluminum; long edges returned or rolled. Headrails fully enclose operating mechanisms on three sides.
296. Manual Lift Mechanism: Lift-Cord Lock: Variable; stops lift cord at user-selected position within blind full operating range. Operator: Extension of lift cord(s) through lift-cord lock mechanism to form cord pull.
297. Manual Tilt Mechanism: Enclosed worm-gear mechanism and linkage rod that adjusts ladders, full tilt. Operator, clear plastic-wand.
298. Bottom Rail: Formed-steel or extruded-aluminum tube that secures and protects ends of ladders and lift cords and has plastic- or metal-capped ends.
299. Lift Cords: Manufacturer's standard braided cord.
300. Ladders: Evenly spaced across headrail at spacing that prevents long-term slat sag, braided.
301. Overhead Mounting Brackets: With spacers and shims required for blind placement and alignment indicated. Provide intermediate support brackets to produce support spacing recommended by blind manufacturer for weight and size of blind.
302. Install level, plumb, aligned and centered on opening. Install according to manufacturer's written requirements.
303. Clean and protect after installation. Replace damaged blinds that cannot be repaired in a manner approved by Architect.

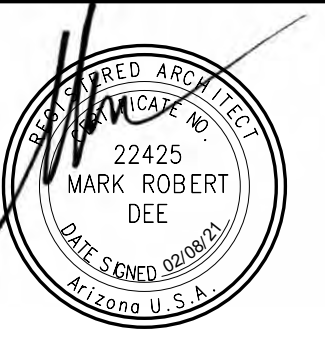
### SECTION 12 36 40 - SOILD SURFACING COUNTERTOPS

304. Submit for Review:
- a. Product data, for each type of product.
  - b. Shop drawings, include plans, elevations, sections, details and attachments to other work. Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices and other components.
  - c. Sample: For each type of exposed finish, submit sample for Architect's review.
305. Provide Solid surface countertop and backsplash in dimensions and profiles indicated on drawings.
306. Material: Homogeneous-filled plastic resin complying with ICPA SS-1.
307. Countertops: 1/2-inch- 12.7-mm- thick, solid surface material with front edge built up with same material.
308. Backsplashes: 1/2-inch- 12.7-mm- thick, solid surface material.
309. Acceptable manufacturers:
- a. Corian® by DuPont; www.corian.com
  - b. Samsung Chemical USA; www.staron.com
  - c. Wilsonart Contract; www.wilsonartcontract.com
310. Colors and Pattern: As selected by Architect from manufacturer's full range.
311. Fabricate tops with shop-applied edges and backsplashes unless otherwise indicated. Comply with solid surface material manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.
312. Install with adhesive product recommend by solid surface material manufacturer.
313. Provide Elastomeric Joint Sealant: Silicone ASTM C 920.
314. Install with a tolerance of 1/8 inch in 8 feet, ¼ inch maximum. Do not exceed 1/64-inch difference between planes of adjacent units.

END OF SPECIFICATIONS

**DWL**  
ARCHITECTS+

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MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281



#### REVISIONS

No.	Description	Date
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**ARCHITECTURAL  
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**G006**

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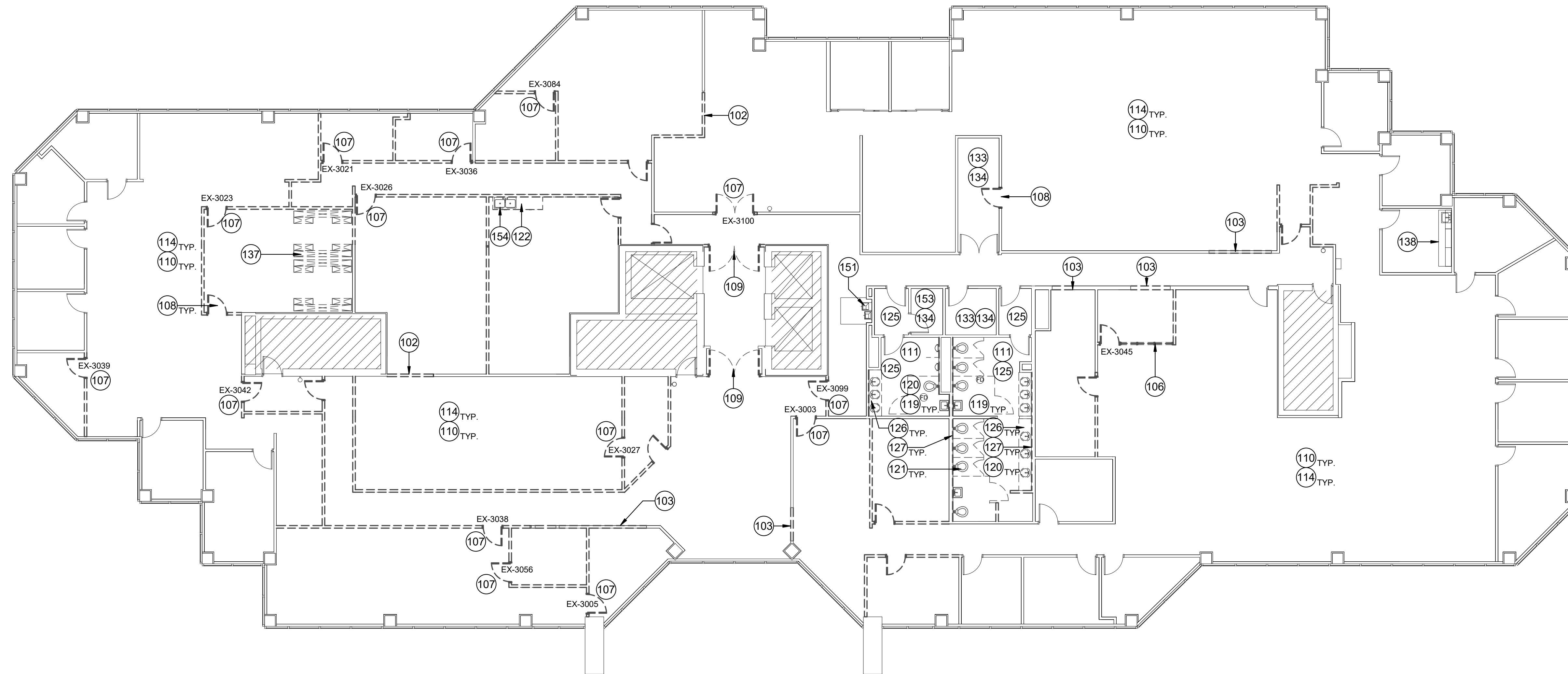
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SHEET TITLE:  
**DEMOLITION FLOOR PLAN**

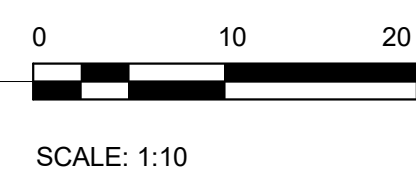
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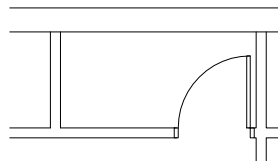
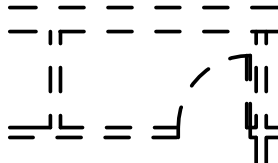

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DATE: 02/08/2021	PROJECT NUMBER: 1831.00



**DEMOLITION FLOOR PLAN**  
1" = 10'-0"



**DEMOLITION PLAN LEGEND**

-  EXISTING COMPONENTS DEPICTED BY CONTINUOUS THIN LINE SHALL REMAIN.
-  EXISTING COMPONENTS DEPICTED BY DASHED BOLD LINE SHALL BE REMOVED, MODIFIED, OR SALVAGED AND REINSTALLED AS INDICATED BY KEYNOTE.
-  EXISTING SPACE. NOT PART OF THIS PROJECT.

**DEMOLITION PLAN NOTES**

1. REFER TO MPE DEMOLITION DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION. COORDINATE UNDER FLOOR SLAB DEMOLITION ITEMS WITH OWNER TO ACCESS SECOND FLOOR AREAS. PROTECT EXISTING CEILINGS, FINISHES, EQUIPMENT AND FURNITURE IN THE AFFECTED SECOND FLOOR AREAS.
2. EXISTING CEILINGS TO REMAIN ARE TO BE PROTECTED DURING ALL ABOVE CEILING WORK
3. CONTRACTOR SHALL LOCATE EXISTING CONCRETE SLAB REINFORCEMENT WITH X-RAY (OR APPROVED EQUAL METHOD) PRIOR TO CORING OR DRILLING NEW HOLES FOR ALL NEW PIPES, FLOOR BOXES AND CONDUIT. DO NOT CUT OR DAMAGE EXISTING CONCRETE STRUCTURAL REINFORCEMENT.
4. FIRE ALARM AND AUTOMATIC FIRE SPRINKLER SYSTEMS DESIGNS ARE DEFERRED SUBMITTALS. COORDINATE SCOPE OF DEMOLITION AND EXTENT OF DEVICES TO BE SALVAGED WITH NEW DESIGN.

**KEYNOTE LEGEND**

- 102 REMOVE PORTION OF GWB PARTITION
- 103 REMOVE PORTION OF GWB PARTITION FOR NEW OPENING
- 106 REMOVE EXISTING GLASS DOOR AND STOREFRONT ASSEMBLY. SALVAGE FOR RE-INSTALLATION
- 107 REMOVE EXISTING DOOR AND FRAMES ASSEMBLY. SALVAGE FOR RE-INSTALLATION. REFER TO HARDWARE SCHEDULE FOR PORTION OF HARDWARE TO BE REUSED
- 108 REMOVE DOOR ASSEMBLY AND RETURN TO OWNER. TYPICAL FOR ALL DOORS NOT TO BE REUSED.
- 109 REMOVE EXISTING DOUBLE DOOR LEAVES. FRAME TO REMAIN, COVER HOLES AT REMOVED HINGE LOCATIONS WITH ALUMINUM PLATES TO MATCH EXISTING FRAME.
- 110 REMOVE EXISTING FLOORING AND WALL BASES
- 111 REMOVE EXISTING FLOOR AND WALL TILE
- 114 REMOVE EXISTING WINDOW COVERINGS AT ALL EXTERIOR STOREFRONT.
- 119 REMOVE EXISTING TOILET PARTITIONS.
- 120 REMOVE EXISTING MIRROR, BATHROOM ACCESSORIES AND GARB BARS.
- 121 REMOVE EXISTING PLUMBING FIXTURES.
- 122 REMOVE COUNTER, BASE AND WALL CABINETS
- 125 REMOVE EXISTING WALL PAPER AND PREPARE SURFACE FOR NEW FINISH
- 126 REMOVE EXISTING COUNTERS, LAVATORIES AND FAUCETS.
- 127 REMOVE INTERIOR LAYER OF GYP BOARD AT PLUMBING FIXTURES.
- 133 PROTECT EXISTING EQUIPMENT DURING DEMOLITION. COORDINATE WITH OWNER.
- 134 EXISTING FLOORING AND BASE TO REMAIN IN THIS AREA
- 137 EXISTING STORAGE SYSTEM. SALVAGE FOR RELOCATION.
- 138 EXISTING MILLWORK TO REMAIN. CLEAN AND REPAIR CABINETS
- 151 EXISTING DRINKING FOUNTAIN TO REMAIN
- 153 REFER TO PLUMBING DRAWINGS FOR THE EXISTING WATER HEATER DEMOLITION SCOPE.
- 154 REFER TO PLUMBING DRAWINGS FOR FIXTURE AND PIPING DEMOLITION SCOPE.



REVISIONS		
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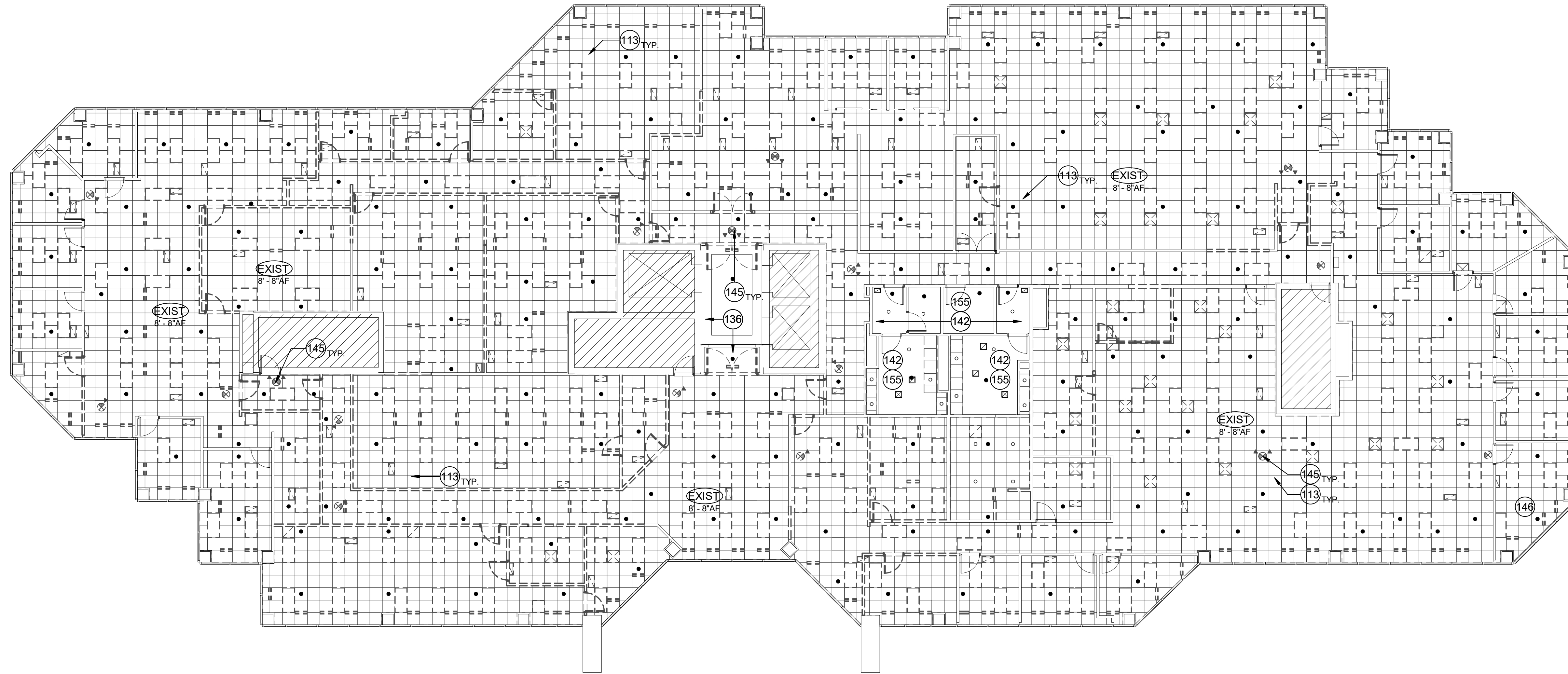
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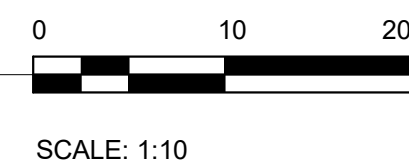
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**DEMOLITION  
CEILING PLAN**

SHEET NUMBER:  
**A111**

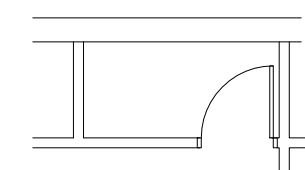
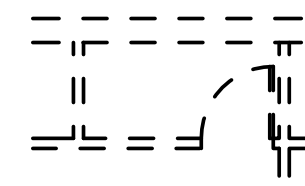

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DATE: 02/08/2021	PROJECT NUMBER: 1831.00



**DEMOLITION REFLECTED CEILING PLAN**  
1" = 10'-0"



**DEMOLITION PLAN LEGEND**

-  EXISTING COMPONENTS DEPICTED BY CONTINUOUS THIN LINE SHALL REMAIN.
-  EXISTING COMPONENTS DEPICTED BY DASHED BOLD LINE SHALL BE REMOVED, MODIFIED, OR SALVAGED AND REINSTALLED AS INDICATED BY KEYNOTE.
-  EXISTING SPACE. NOT PART OF THIS PROJECT.

**DEMOLITION PLAN NOTES**

1. REFER TO MPE DEMOLITION DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION. COORDINATE UNDER FLOOR SLAB DEMOLITION ITEMS WITH OWNER TO ACCESS SECOND FLOOR AREAS. PROTECT EXISTING CEILINGS, FINISHES, EQUIPMENT AND FURNITURE IN THE AFFECTED SECOND FLOOR AREAS.
2. EXISTING CEILINGS TO REMAIN ARE TO BE PROTECTED DURING ALL ABOVE CEILING WORK
3. CONTRACTOR SHALL LOCATE EXISTING CONCRETE SLAB REINFORCEMENT WITH X-RAY (OR APPROVED EQUAL METHOD) PRIOR TO CORING OR DRILLING NEW HOLES FOR ALL NEW PIPES, FLOOR BOXES AND CONDUIT. DO NOT CUT OR DAMAGE EXISTING CONCRETE STRUCTURAL REINFORCEMENT.
4. FIRE ALARM AND AUTOMATIC FIRE SPRINKLER SYSTEMS DESIGNS ARE DEFERRED SUBMITTALS. COORDINATE SCOPE OF DEMOLITION AND EXTENT OF DEVICES TO BE SALVAGED WITH NEW DESIGN.

**KEYNOTE LEGEND**

- 113 REMOVE EXISTING SUSPENDED CEILING SYSTEM, IN ENTIRE FLOOR AREA
- 136 EXISTING GWB CEILING AND FIXTURES TO REMAIN.
- 142 EXISTING GWB CEILING TO REMAIN. PATCH AS REQUIRED FOR NEW LIGHTING FIXTURE AND DIFFUSERS INSTALLATION
- 145 EXISTING EXIT SIGNAGE TO BE RELOCATED. SALVAGE UNUSED SIGNS AND RETURN TO OWNER
- 146 EXISTING CEILING MOUNTED PROJECTOR TO BE REPLACED. REMOVE AND RETURN TO OWNER.
- 155 REFER TO MPE DRAWINGS FOR THE EXISTING LIGHTING FIXTURES AND DIFFUSERS DEMOLITION SCOPE





MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**

2323 W. 14th Street, Tempe, AZ 85281



**REVISIONS**

No.	Description	Date

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KEY:

**FLOOR PLAN**

SHEET NUMBER:

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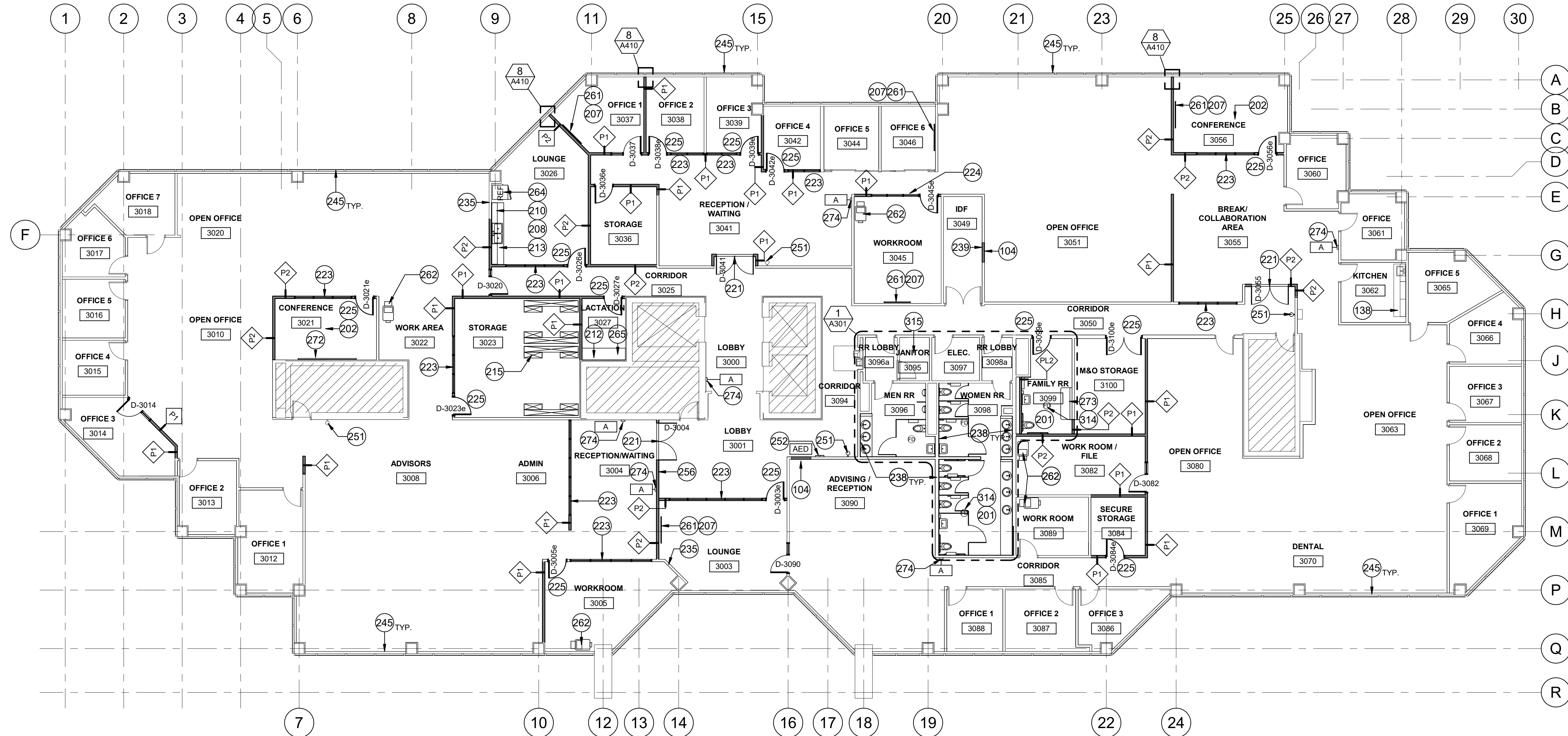
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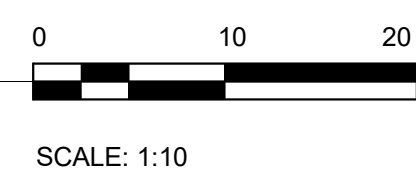
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**FLOOR PLAN**  
1" = 10'-0"



**FLOOR PLAN LEGEND**

- EXISTING COMPONENTS DEPICTED BY CONTINUOUS THIN LINE SHALL REMAIN.
- NEW COMPONENTS ARE DEPICTED BY CONTINUOUS THICK LINES. NEW WALLS ARE SHOWN SHADED.
- EXISTING COMPONENTS DEPICTED BY THIN DASHED LINES ARE BELOW OR ABOVE THIS LEVEL AND ARE SHOWN FOR REFERENCE ONLY.
- EXISTING SPACE. NOT PART OF THIS PROJECT.
- DENOTES FLOOR, ROOF, CEILING OR WALL TYPE. REFER TO SHEET A240 FOR ADDITIONAL INFORMATION.
- FIRE EXTINGUISHER (WALL MOUNTED)
- AED (AUTOMATED EXTERNAL DEFIBRILLATOR) AND HORN
- "ALERTUS" WALL MOUNTED DEVICE

**FLOOR PLAN NOTES**

1. CONTRACTOR SHALL LOCATE EXISTING CONCRETE SLAB REINFORCEMENT WITH RADAR PRIOR TO CORING OR DRILLING NEW HOLES FOR ALL NEW PIPES, FLOOR BOXES AND CONDUIT. DO NOT CUT OR DAMAGE EXISTING CONCRETE STRUCTURAL REINFORCEMENT.
2. COORDINATE UNDER FLOOR SLAB WORK FOR PIPING, CORING, CONDUIT WITH OWNER TO ACCESS SECOND FLOOR AREAS. PROTECT EXISTING CEILINGS, FINISHES, EQUIPMENT AND FURNITURE IN THE AFFECTED SECOND FLOOR AREAS.

**KEYNOTE LEGEND**

- 104 FILL IN OPENINGS TO MATCH EXISTING WALL ASSEMBLY
- 138 EXISTING MILLWORK TO REMAIN. CLEAN AND REPAIR CABINETS
- 201 CORE-DRILL FLOOR SLAB FOR PLUMBING, REFER TO PLUMBING PLAN FOR DETAILS
- 202 CORE-DRILL FLOOR SLAB FOR FLOOR OUTLETS, REFER TO ELECTRICAL PLAN FOR DETAILS
- 207 PROVIDE BLOCKING FOR WALL MOUNTED EQUIPMENT. COORDINATE MOUNTING LOCATION w/OWNER
- 208 PROVIDE BLOCKING FOR WALL MOUNTED CABINETS
- 210 BASE AND WALL MOUNTED CABINETS.
- 212 PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH
- 213 SOLID SURFACE COUNTERTOP AND BACKSPLASH
- 215 RELOCATED EXISTING STORAGE SYSTEM
- 221 NEW FRAMELESS GLASS DOOR
- 223 NEW STOREFRONT SYSTEM. REFER TO SHEET A401 FOR ELEVATIONS.
- 224 RELOCATED EXISTING STOREFRONT SYSTEM AND DOOR
- 225 RELOCATED DOOR ASSEMBLY.
- 235 EXTEND EXISTING PARTITION TO ABOVE CEILING HEIGHT
- 238 NEW LAYER 5/8" MOISTURE & MOLD RESISTANT GYPSUM BOARD AT REPLACED PLUMBING FIXTURES.
- 239 ADD BASE TO MATCH EXISTING AT REMOVED DOOR LOCATION
- 245 PROVIDE WINDOW COVERINGS TO ALL EXISTING EXTERIOR WINDOWS, TYPICAL SURFACE MOUNTED FIRE EXTINGUISHER
- 251 SURFACE MOUNTED FIRE EXTINGUISHER
- 252 AED (AUTOMATED EXTERNAL DEFIBRILLATOR) AND HORN (O.F.O.I.)
- 256 MAIL DROP OFF
- 261 WALL MOUNTED TV MONITOR / SCREEN (O.F.O.I.)
- 262 PRINTER / COPIER (O.F.O.I.)
- 264 REFRIGERATOR (O.F.O.I.)
- 265 UNDERCOUNTER REFRIGERATOR (O.F.O.I.)
- 272 WALL MOUNTED WHITEBOARD (O.F.O.I.)
- 273 ADULT CHANGING TABLE. PROVIDE WALL BACKING. COORDINATE FINAL MOUNTING HEIGHT WITH OWNER
- 274 "ALERTUS" WALL MOUNTED DEVICE (O.F.O.I.) PROVIDE CONDUIT AND STUB UP INTO ACCESSIBLE CEILING ABOVE. COORDINATE LOCATION w/OWNER
- 314 NEW FLOOR DRAIN, REFER TO PLUMBING DRAWINGS
- 315 REFER TO PLUMBING DRAWINGS FOR THE NEW WATER HEATER SCOPE. PATCH EXISTING FINISHES AS REQUIRED FOR NEW INSTALLATION AND PIPING



MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281

RIO SALADO COLLEGE  
A MARICOPA COMMUNITY COLLEGE

REVISIONS

No.	Description	Date

BIDDING SET

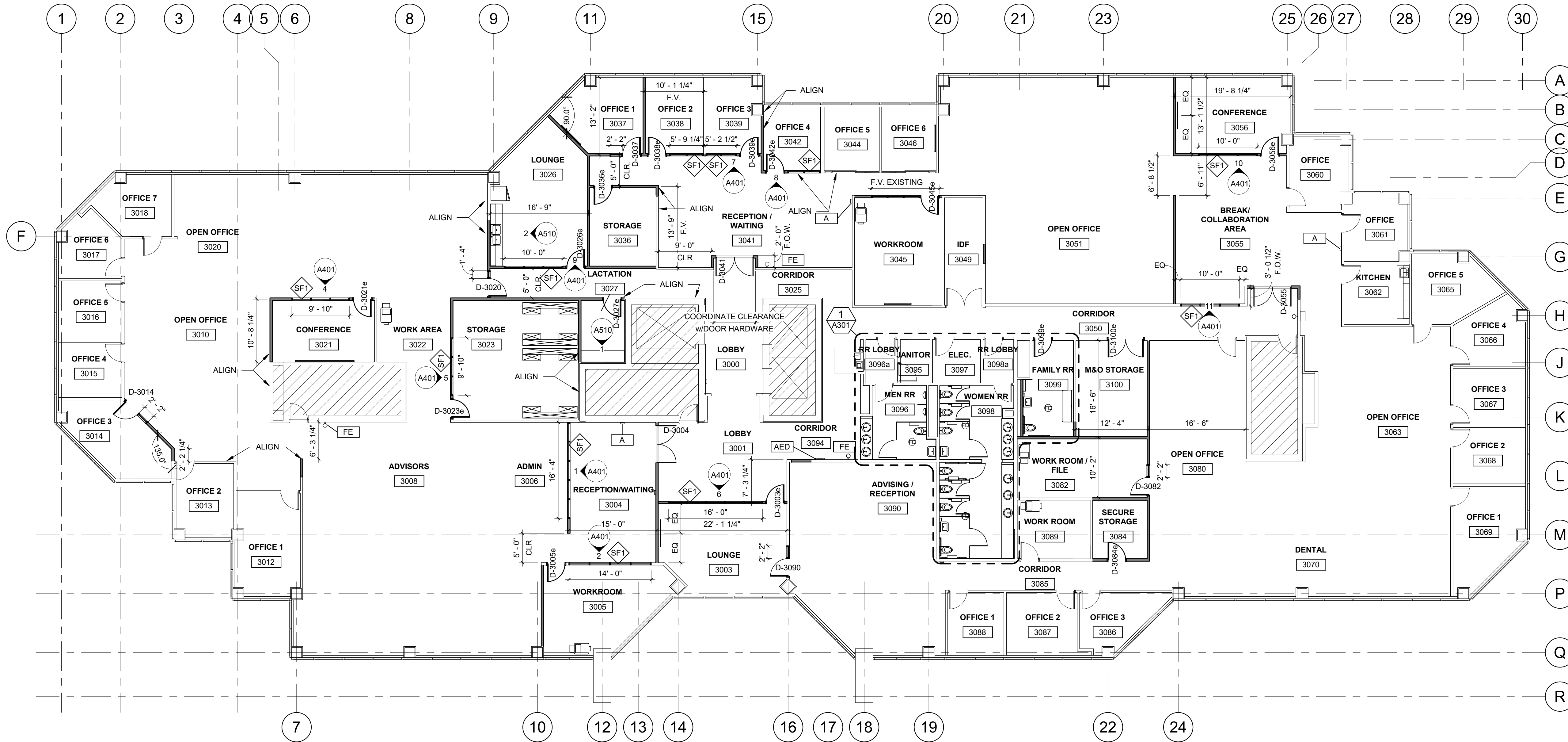
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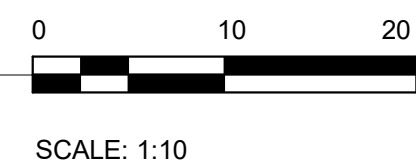
SHEET TITLE:  
**DIMENSION FLOOR PLAN**

SHEET NUMBER:  
**A202**

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**DIMENSION FLOOR PLAN**  
1" = 10'-0"



**FLOOR PLAN LEGEND**

- EXISTING COMPONENTS DEPICTED BY CONTINUOUS THIN LINE SHALL REMAIN.
- NEW COMPONENTS ARE DEPICTED BY CONTINUOUS THICK LINES. NEW WALLS ARE SHOWN SHADED.
- EXISTING COMPONENTS DEPICTED BY THIN DASHED LINES ARE BELOW OR ABOVE THIS LEVEL AND ARE SHOWN FOR REFERENCE ONLY.
- EXISTING SPACE. NOT PART OF THIS PROJECT.
- DENOTES FLOOR, ROOF, CEILING OR WALL TYPE. REFER TO SHEET A240 FOR ADDITIONAL INFORMATION.
- FIRE EXTINGUISHER (WALL MOUNTED)
- AED (AUTOMATED EXTERNAL DEFIBRILLATOR) AND HORN
- "ALERT" WALL MOUNTED DEVICE

**DIMENSION PLAN NOTES**

1. CONTROL DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
  - CENTERLINE OF GRID AT COLUMNS
  - FACE OF MASONRY AT CMU WALLS
  - FACE OF FINISH AT EXTERIOR SIDE OF EXTERIOR WALLS. DIMENSION DOES NOT INCLUDE SILL OR HEAD PROJECTIONS AT OPENINGS
  - FACE OF STUD AT INTERIOR SIDE OF EXTERIOR WALLS.
  - CENTERLINE OF STUD AT INTERIOR PARTITION AND FURRING WALLS.
  - CENTERLINE OF INTERIOR CONCRETE WALLS.
  - CENTERLINE OF WINDOWS AND DOORS FROM WALLS AND GRIDLINES.
  - CENTERLINE OF MULLIONS IN STOREFRONT AND CURTAINWALL SYSTEMS.
2. DOOR OPENINGS NOT LOCATED BY DIMENSIONS SHALL BE CENTERED ON WALLS OR OFFSET WITH 4" CLEAR BETWEEN EDGE OF DOOR AND FACE OF PERPENDICULAR STUD WALL.



REVISIONS

No.	Description	Date

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KEY:

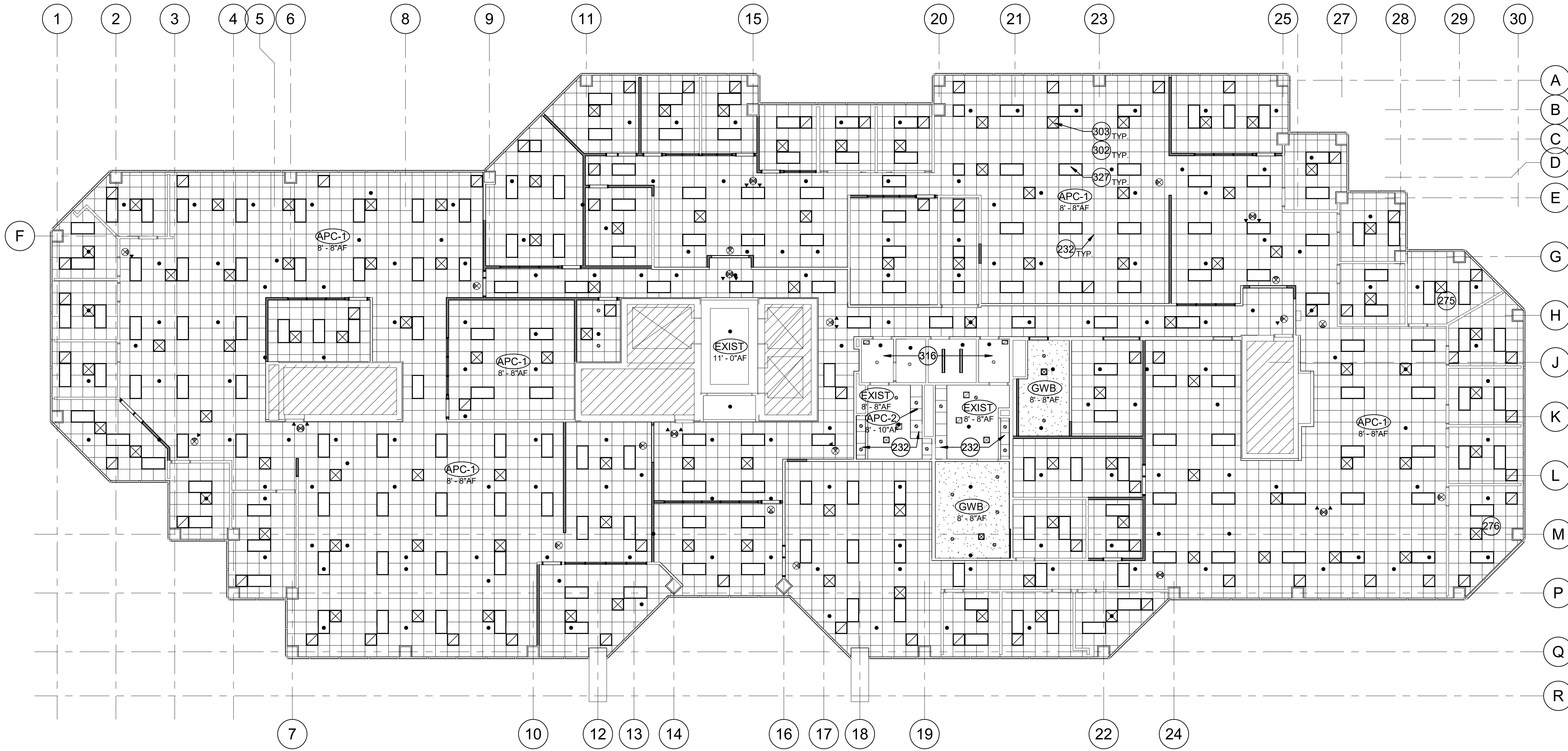
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**REFLECTED  
CEILING PLAN**

SHEET NUMBER:

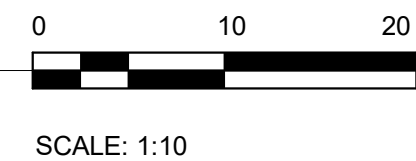
**A211**

DRAWN BY: EBL	REVIEWED BY: MRD
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DATE: 02/08/2021	PROJECT NUMBER: 1831.00
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**REFLECTED CEILING PLAN**  
1" = 10'-0"



**REFLECTED CEILING PLAN LEGEND**

- CEILING TYPE TAG WITH HEIGHT OF CEILING ABOVE FINISHED FLOOR ELEVATION OF FLOOR IMMEDIATELY BELOW.
- 2' X 4' (NOM) LIGHT FIXTURE
- 2' X 2' (NOM) LIGHT FIXTURE
- RECESSED DOWN LIGHT FIXTURE
- WALL WASHER OR DIRECTIONAL DOWN LIGHT
- EXIT SIGN
- FIRE SPRINKLER HEAD (FIRE SPRINKLER SYSTEM DESIGN BY DEFERRED SUBMITTAL). EXISTING LOCATIONS SHOWN FOR REFERENCE ONLY. FIELD-VERIFY ALL LOCATIONS.
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- LINEAR SUPPLY/ RETURN AIR DIFFUSER

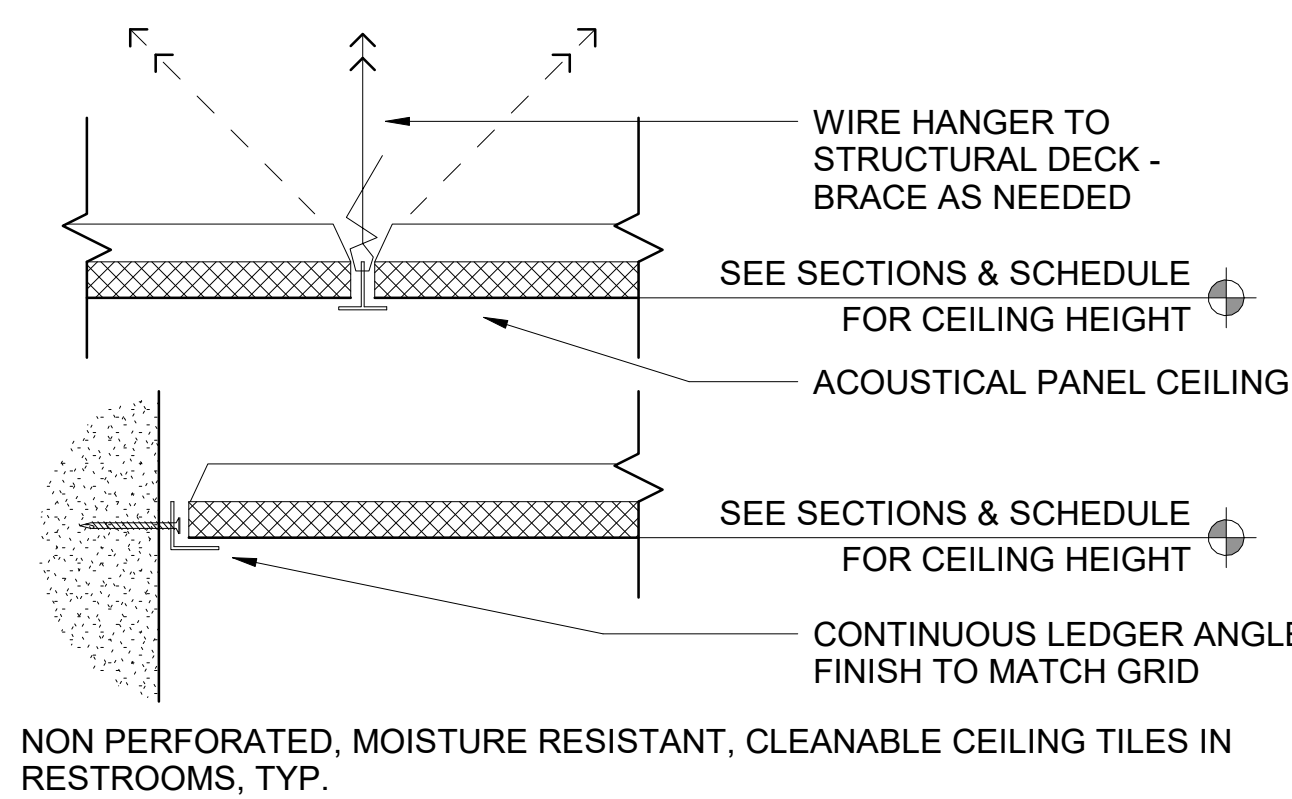
**KEYNOTE LEGEND**

- 232 NEW ACOUSTICAL CEILING PANELS AND GRID
- 275 EXISTING PROJECTOR TO BE REPLACED (O.F.O.I.). COORDINATE NEW LOCATION WITH OWNER
- 276 CEILING MOUNTED PROJECTOR (O.F.O.I) COORDINATE LOCATION AND REQUIREMENTS WITH OWNER.
- 302 EXISTING AIR PLENUM SPACE ABOVE CEILING. NO EXISTING OR NEW ABS, PB OR CPVC PIPING OR TUBING ALLOWED ABOVE CEILING. CONTRACTOR TO NOTIFY OWNER IF NON-COMPLIANT PIPING OR TUBING DISCOVERED DURING CONSTRUCTION. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
- 303 NEW DIFFUSERS AND GRILLES. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
- 316 REFER TO MPE DRAWINGS FOR THE NEW LIGHTING FIXTURES AND DIFFUSERS SCOPE. PATCH EXISTING CEILINGS AS REQUIRED FOR NEW SCOPE
- 327 NEW LED LIGHTING FIXTURES, TYP.

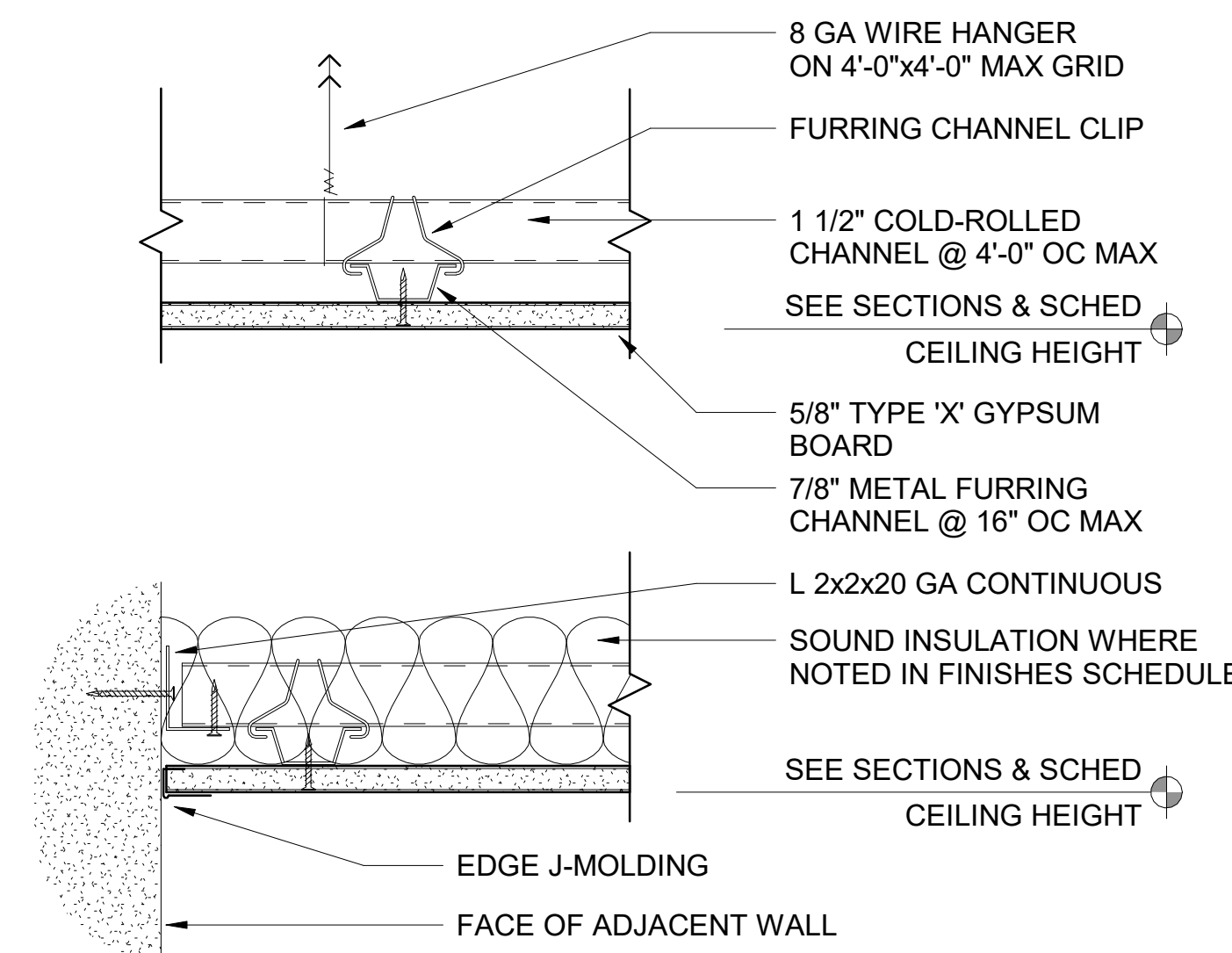
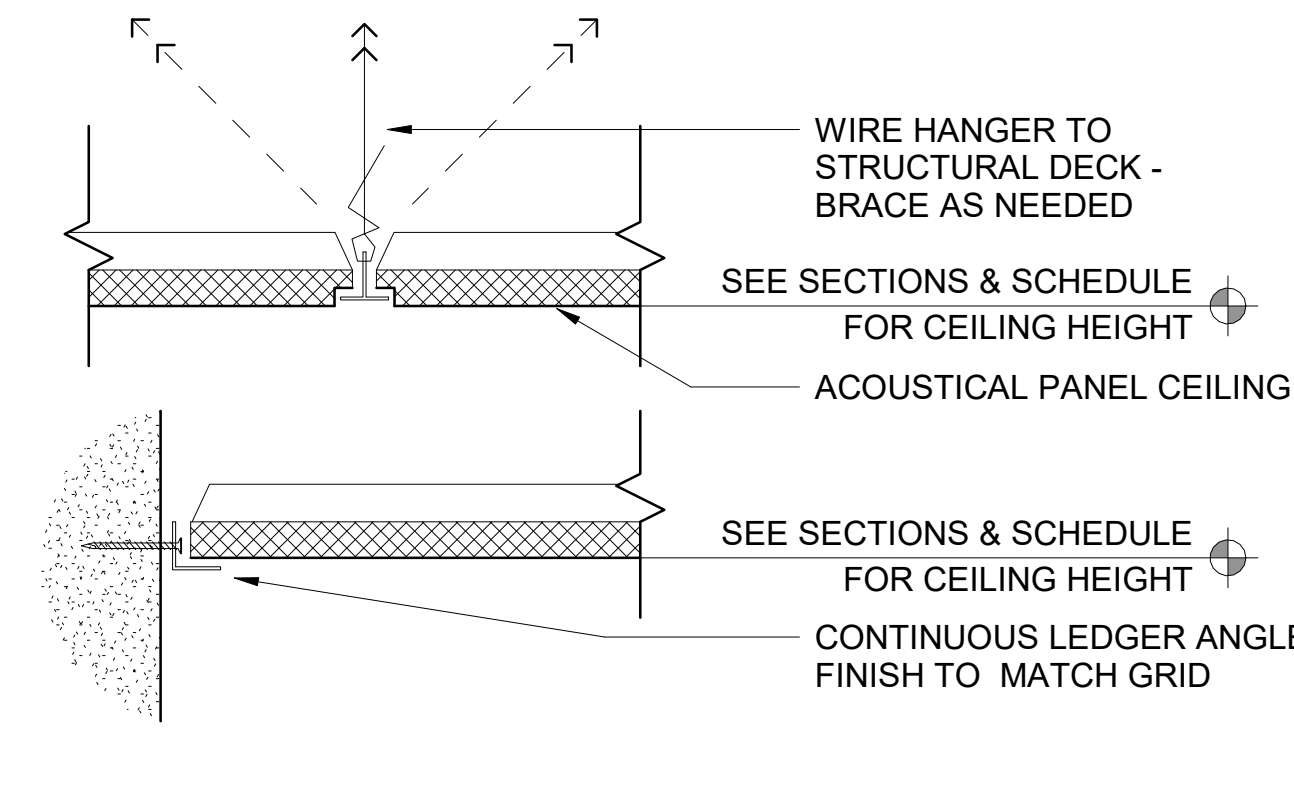


**WALL TYPE NOTES**

1. REFER TO FLOOR PLANS FOR LOCATIONS OF WALLS TYPES
2. WALL ASSEMBLIES ARE SCHEMATIC ONLY - REFER TO SECTIONS, ELEVATIONS, DETAILS, AND SCHEDULES FOR MORE SPECIFIC INFORMATION
3. SPECIAL FINISH MATERIALS, CARPET/FLOORING, BASES, DOORS, ETC. ARE NOT SHOWN FOR CLARITY PURPOSES - REFER TO PLANS, SECTIONS, DETAILS, SPECIFICATIONS AND SCHEDULES FOR ADDITIONAL INFORMATION
4. DETAILS AND NOTES OF SIMILAR CONDITIONS ARE TYPICAL. SIMILAR CONDITIONS MAY NOT BE CALLED OUT AT ALL LOCATIONS
5. PROVIDE TRACK BLOCKING AT ALL WALL-MOUNTED CABINETS, MARKER BOARDS, DISPLAY BOARDS, FIRE EXTINGUISHER CABINETS, WALL-BRACED EQUIPMENT, ETC.



NON PERFORATED, MOISTURE RESISTANT, CLEANABLE CEILING TILES IN RESTROOMS, TYP.



**APC2** ACOUSTICAL PANEL CEILING (RR)  
3" = 1'-0"

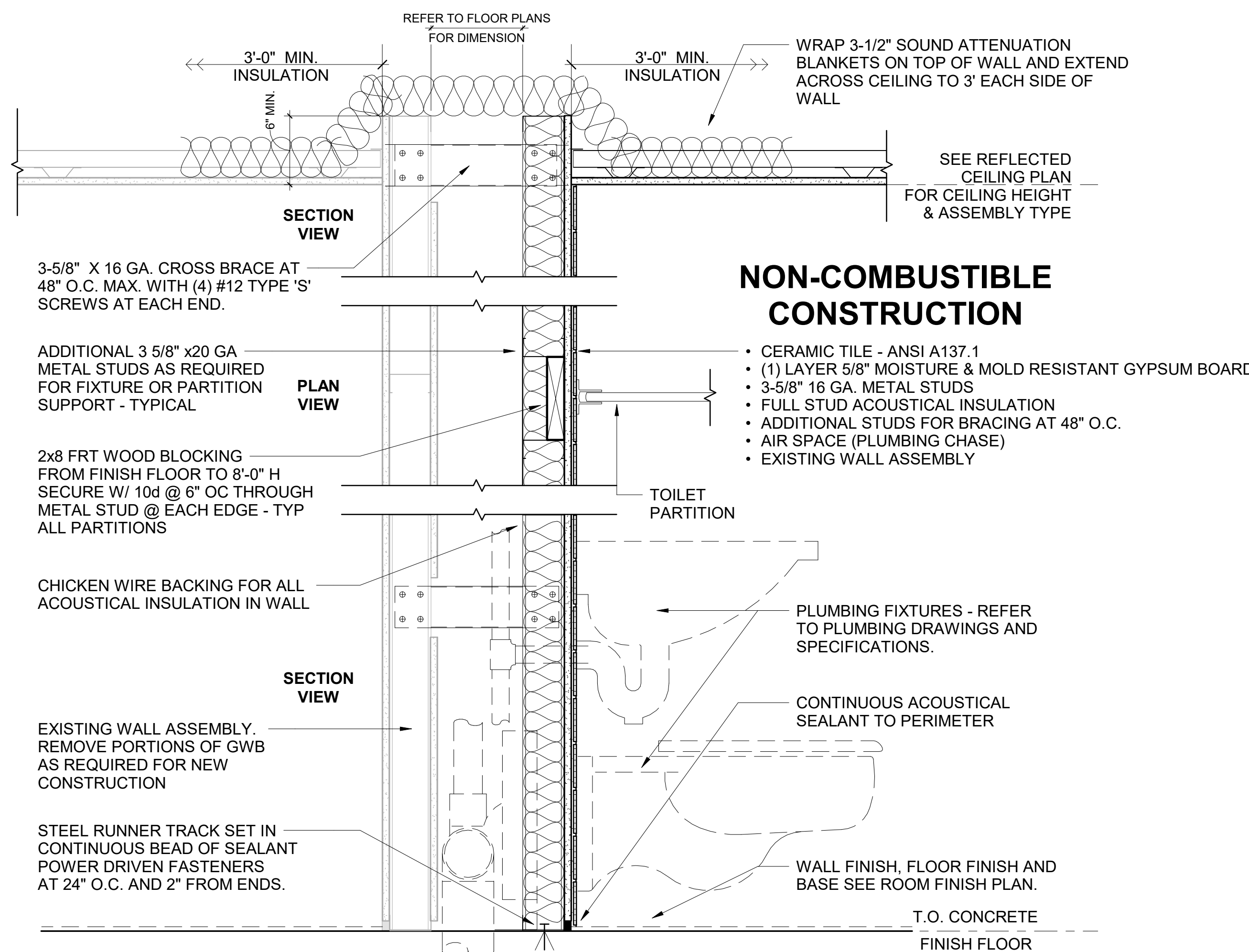
**APC1** ACOUSTICAL PANEL CEILING (TYP)  
3" = 1'-0"

**GWB** GYPSUM BOARD (SUSP. ON FRAME)  
3" = 1'-0"

**BRACING REQUIREMENTS**

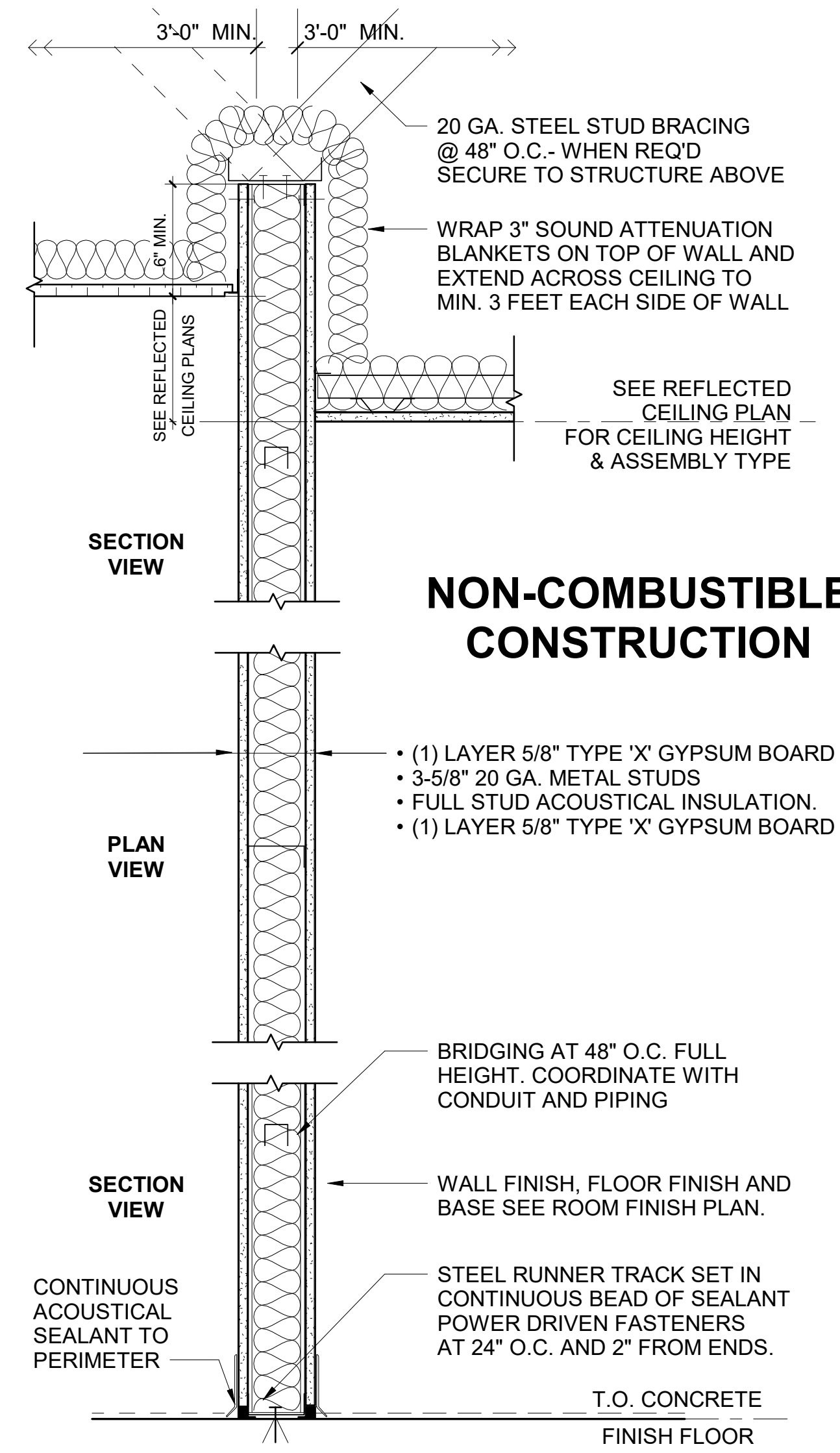
PTN. LENGTH	TOP RUNNER GA.
UP TO 8'-0"	25 GA.
UP TO 12'-0"	20 GA.
UP TO 16'-0"	16 GA.

WHEN REQUIRED BRACES TO BE SPACED 8'-0" O.C. MAX  
GA. / PER BRACE LENGTH:  
20 GA. / UP TO 6'-0"  
16 GA. / UP TO 10'-0"  
DBL 16 GA. / UP TO 16'-0"



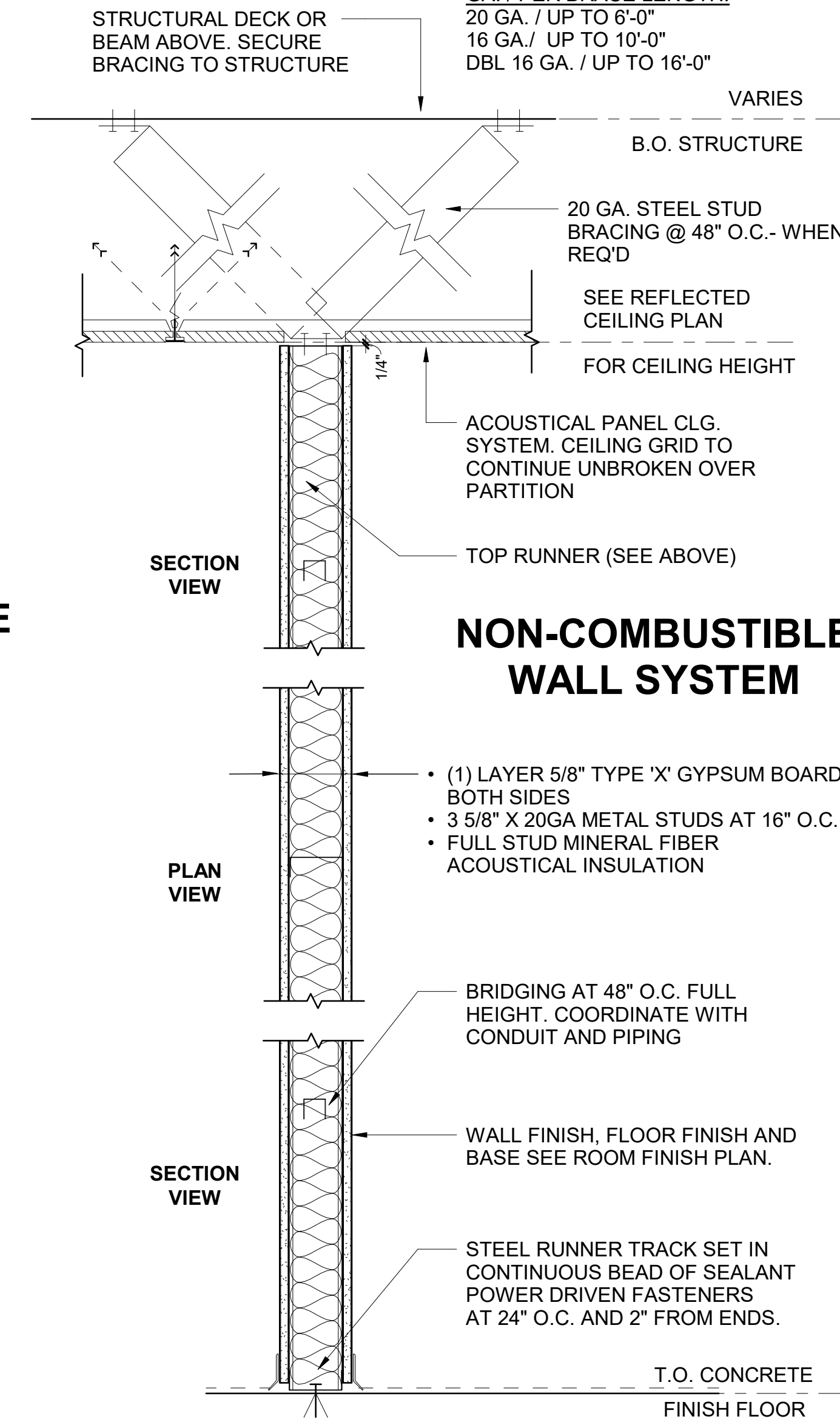
**PL1** PLUMBING WALL PL1  
1 1/2" = 1'-0"

- \* NON-RATED, NON-COMBUSTIBLE WALL FURRING.
- \* FIRE PROTECTION OF OPENINGS NOT REQUIRED.
- \* THROUGH & MEMBRANE PENETRATION TO COMPLY W/ AIR-TIGHTNESS REQUIREMENTS.
- \* NON-BEARING.



**P2** PARTITION P2  
1 1/2" = 1'-0"

- \* NON-RATED, NON-COMBUSTIBLE WALL
- \* PROTECTION OF OPENING NOT REQUIRED
- \* NON-BEARING



**P1** PARTITION P1  
1 1/2" = 1'-0"

- \* NON-RATED, NON-COMBUSTIBLE WALL FURRING.
- \* FIRE PROTECTION OF OPENINGS NOT REQUIRED.
- \* NON-BEARING.

SHAFT WALL PENETRATIONS

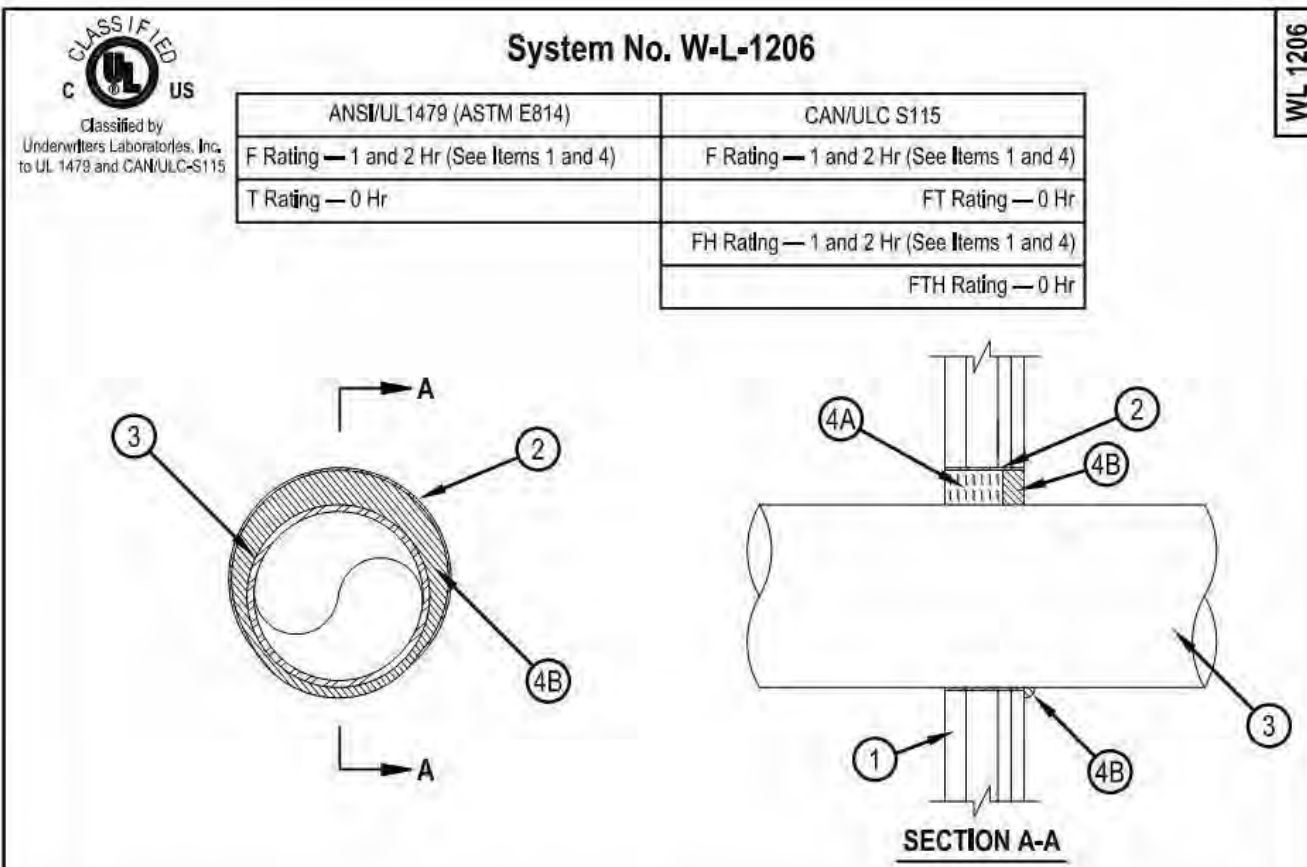


Table with 2 columns: ANSUL1479 (ASTM E814) and CANULC S115, listing fire and through-penetration ratings.

- 1. Wall Assembly - The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design...
2. Metallic Sleeve - Max 10-1/2 in. (267 mm) diam cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) thick (28 gauge) galv steel...

Hilti Firestop Systems logo and reproduction information.

System No. W-L-1206

- 3. Through-Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system...
4. Firestop System - The firestop system shall consist of the following:
A. Packing Material - Min 1-5/8 in. (41 or 57 mm) thickness of min 4 pcf (64 kg/m³) mineral wool ball insulation...

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems logo and reproduction information.

THROUGH-WALL PENETRATIONS

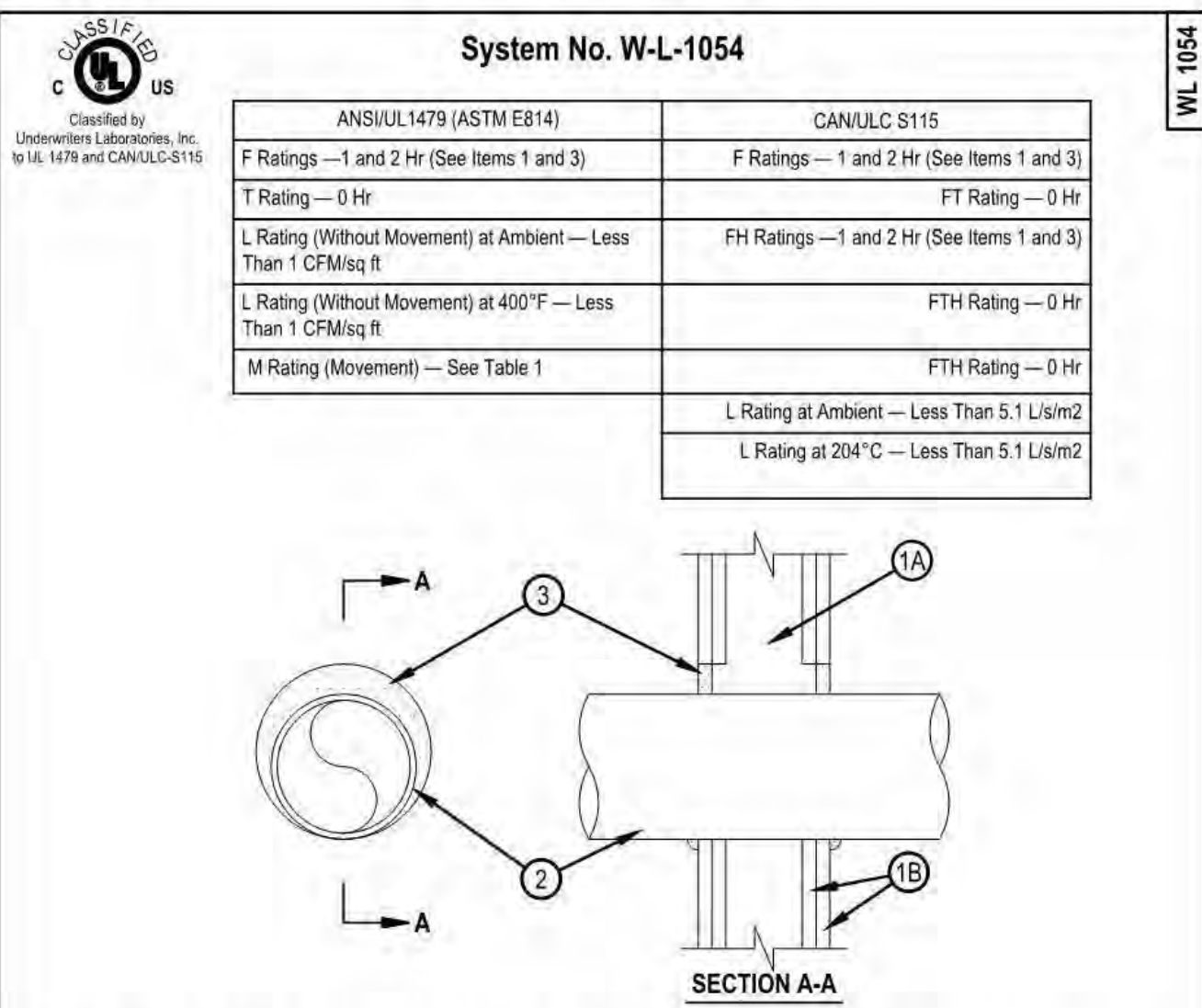


Table with 2 columns: ANSUL1479 (ASTM E814) and CANULC S115, listing fire and through-penetration ratings.

- 1. Wall Assembly - The 1 or 2 Hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory...
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber...

Hilti Firestop Systems logo and reproduction information.

System No. W-L-1054

- 2. Through-Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system...
3. Fill, Void or Cavity Material - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

Table with 7 columns: Movement, Penetrant Item, Nominal Penetrant Diameter, Annular Space, Sealant Depth, F-Rating, L Rating with Movement.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems logo and reproduction information.

THROUGH PENETRATIONS OF FIRE-RESISTANCE RATED WALLS

- FR 9. 714.4.1 Through penetrations. Through penetrations of fire-resistance-rated walls shall comply with Section 714.4.1.1 or 714.4.1.2.
FR 10. 714.4.2 Membrane penetrations. Membrane penetrations shall comply with Section 714.4.1. Where walls or partitions are required to have a fire-resistance rating, recessed fixtures shall be installed such that the required fire resistance will not be reduced.

FLOOR METAL PIPE & DRAIN PENETRATIONS

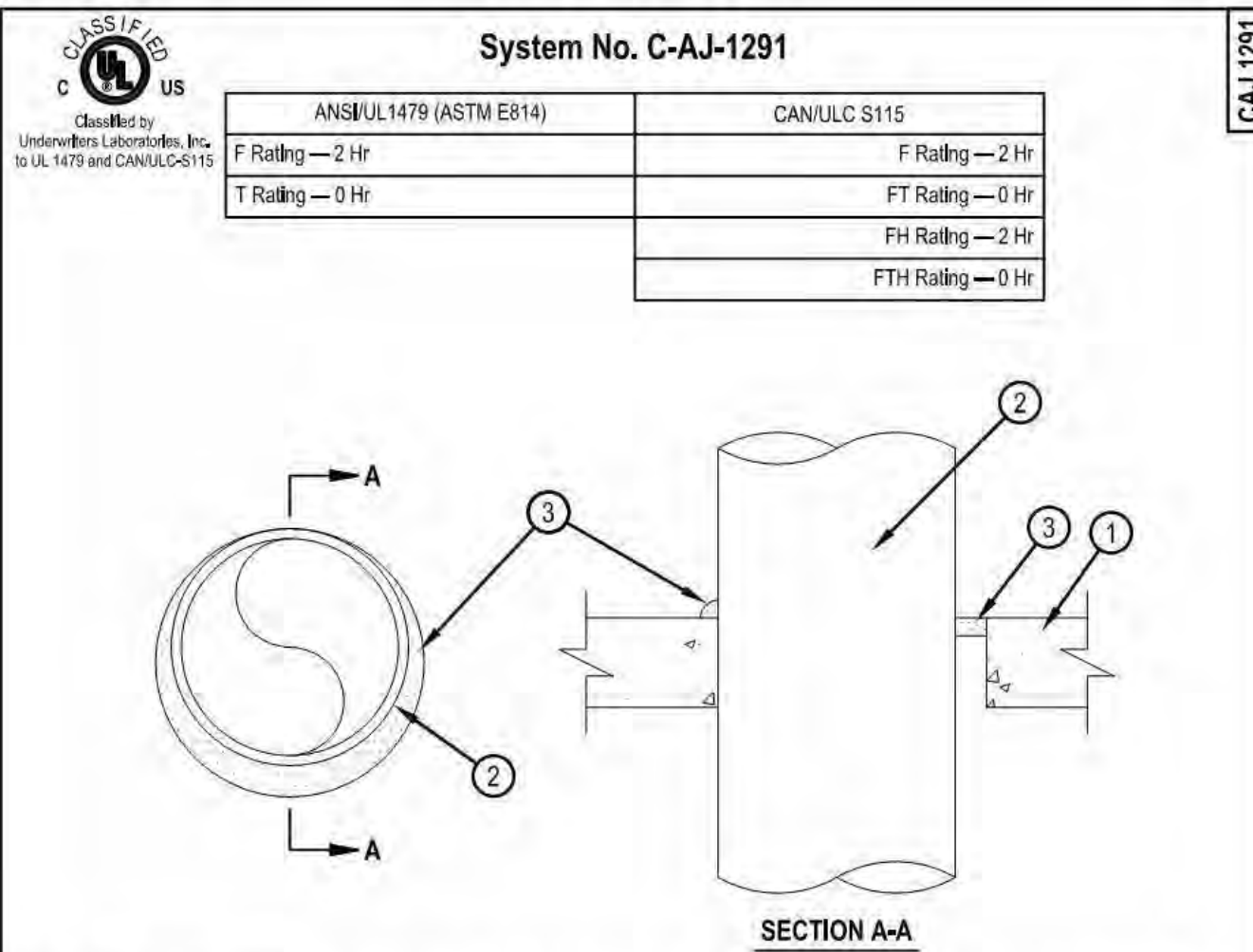


Table with 2 columns: ANSUL1479 (ASTM E814) and CANULC S115, listing fire and through-penetration ratings.

- 1. Floor or Wall Assembly - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete...
2. Through-Penetrant - One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system...
3. Fill, Void or Cavity Material - Sealant - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor...

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems logo and reproduction information.

FIRE RESISTIVE SYSTEM NOTES

- FR 1. When submitting and installing penetration protection systems use most current edition of the listed system...
FR 2. Current editions of each penetration protection system are to be maintained on the jobsite...
FR 3. INSTALLER QUALIFICATIONS - Installation Responsibility: assign installation of through-penetration firestop systems and fire-resistive joint systems in project to a single source firestop specialty contractor.

The work is to be installed by a contractor with at least one of the following qualifications:

- Hilti Accredited Fire Stop Specialty Contractor (HAFSC)
3M "Master Contractor"
Hilti "Certified Contractor" with current letter from manufacturer
3M "Certified Contractor" with current letter from manufacturer
UL Approved Contractor
FM 4991 Approved Contractor

- ACCEPTABLE MANUFACTURERS - Subject to compliance with through penetration firestop systems (XHEZ), joint systems (XBN), and perimeter firestop systems (XHDG) listed in Volume 2 of the UL Fire Resistance Directory...
1. Hilti, Inc., Tulsa, Oklahoma
2. 3M Company, St. Paul, Minnesota
3. Provide products from the above acceptable manufacturers; no substitutions will be accepted.

THROUGH PENETRATIONS OF HORIZONTAL ASSEMBLIES

- FR 5. 714.5.1 Through penetrations. Through penetrations of horizontal assemblies shall comply with Section 714.5.1.1 or 714.5.1.2.
FR 6. 714.5.1.1 Fire-resistance-rated assemblies. Through penetrations shall be protected using systems installed as tested in the approved fire-resistance-rated assembly.
FR 7. 714.5.1.2 Through-penetration firestop system. Through penetrations shall be protected by an approved through-penetration firestop system installed and tested in accordance with ASTM E814 or UL 1479...

- FR 8. 714.5.2 Membrane penetrations. Penetrations of membranes that are part of a horizontal assembly shall comply with Section 714.5.1.1 or 714.5.1.2. Where floor/ceiling assemblies are required to have a fire-resistance rating, recessed fixtures shall be installed such that the required fire resistance will not be reduced.



2333 North Central Avenue
Phoenix Arizona 85004
602.264.9731
dwlarchitects.com



MARICOPA COMMUNITY COLLEGES
RIO SALADO COLLEGE TOWER:
Third Floor Remodel
2323 W. 14th Street, Tempe, AZ 85281

RIO SALADO COLLEGE
A MARICOPA COMMUNITY COLLEGE

REVISIONS

Table with 3 columns: No., Description, Date.

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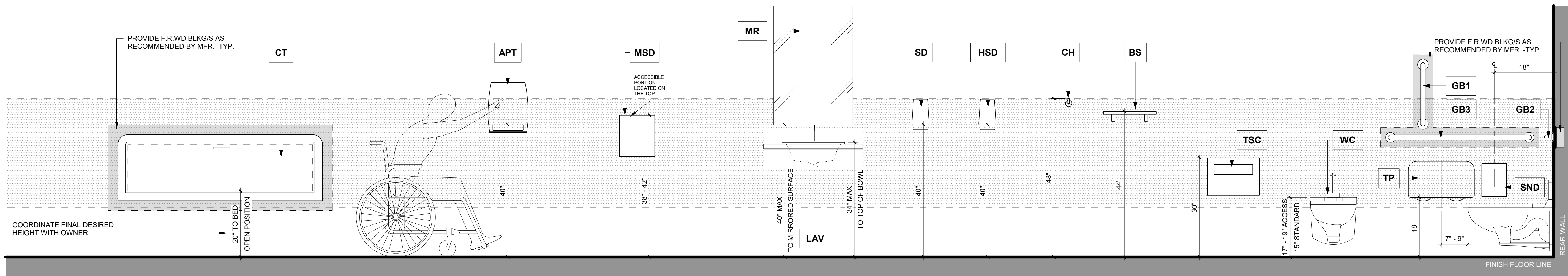
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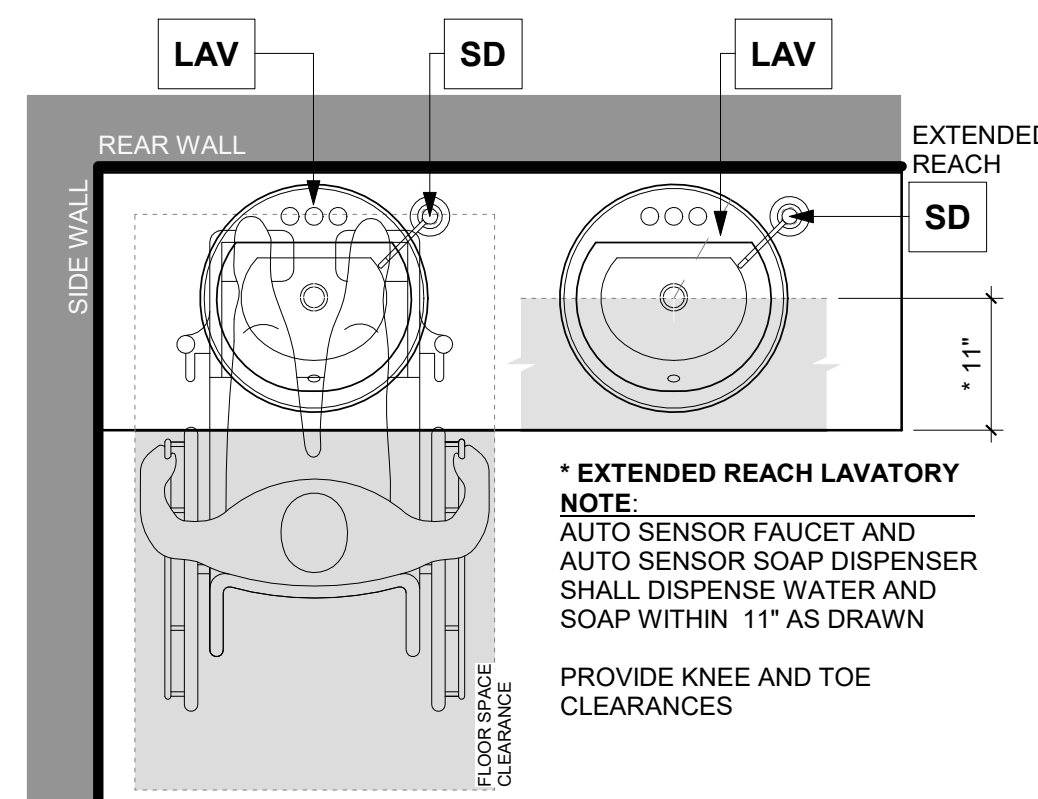
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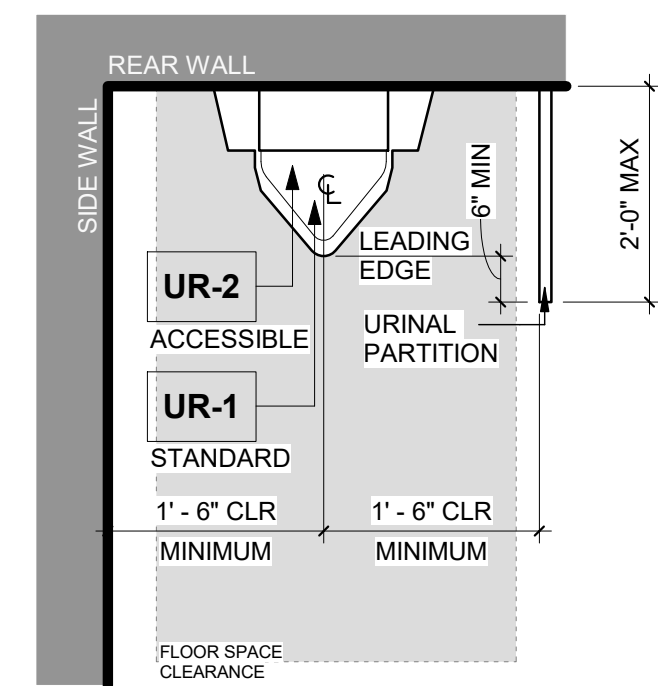
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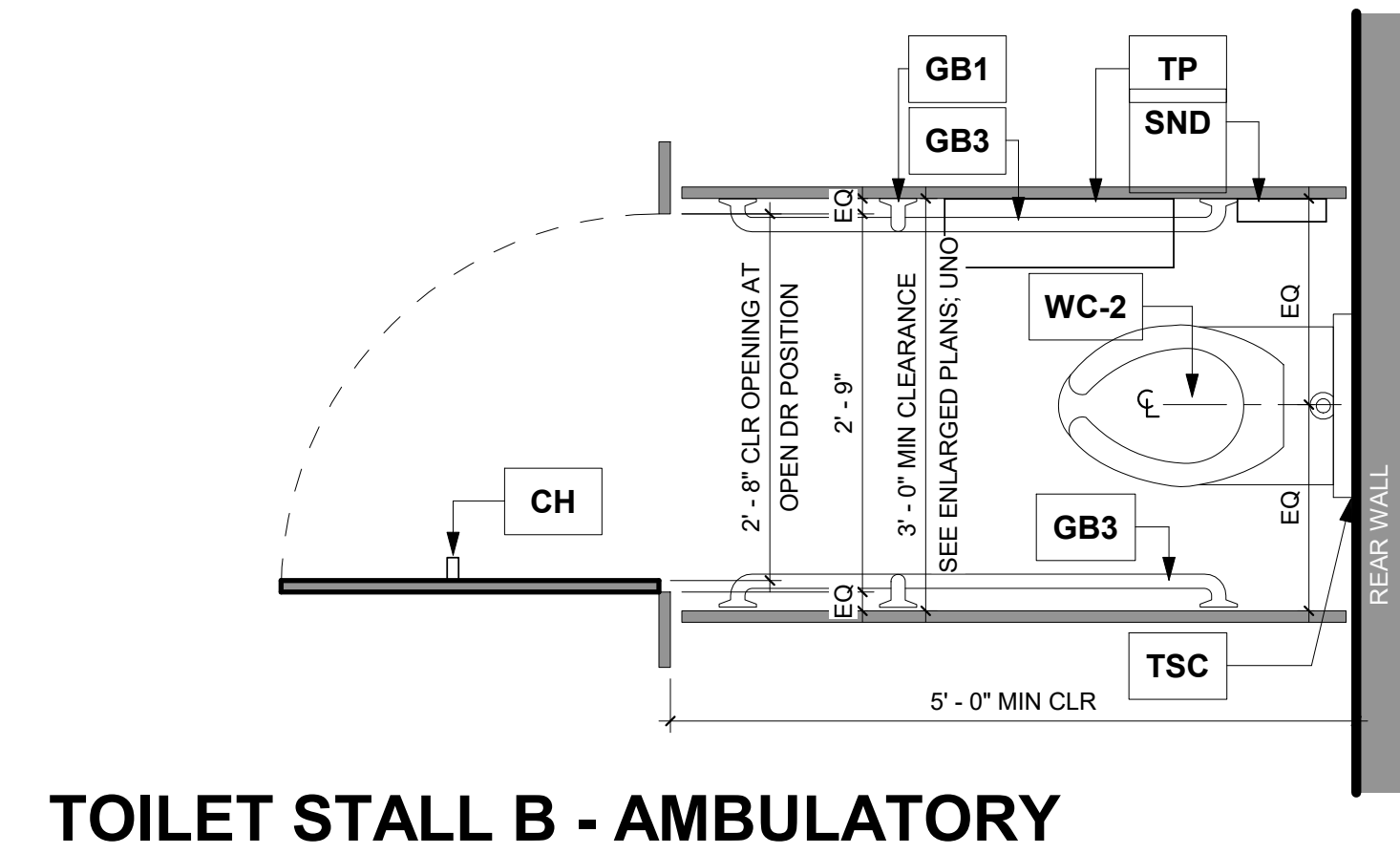
**TOILET FIXTURES & ACCESSORIES MOUNTING HEIGHTS**



**LAVATORY - FLR PLAN**



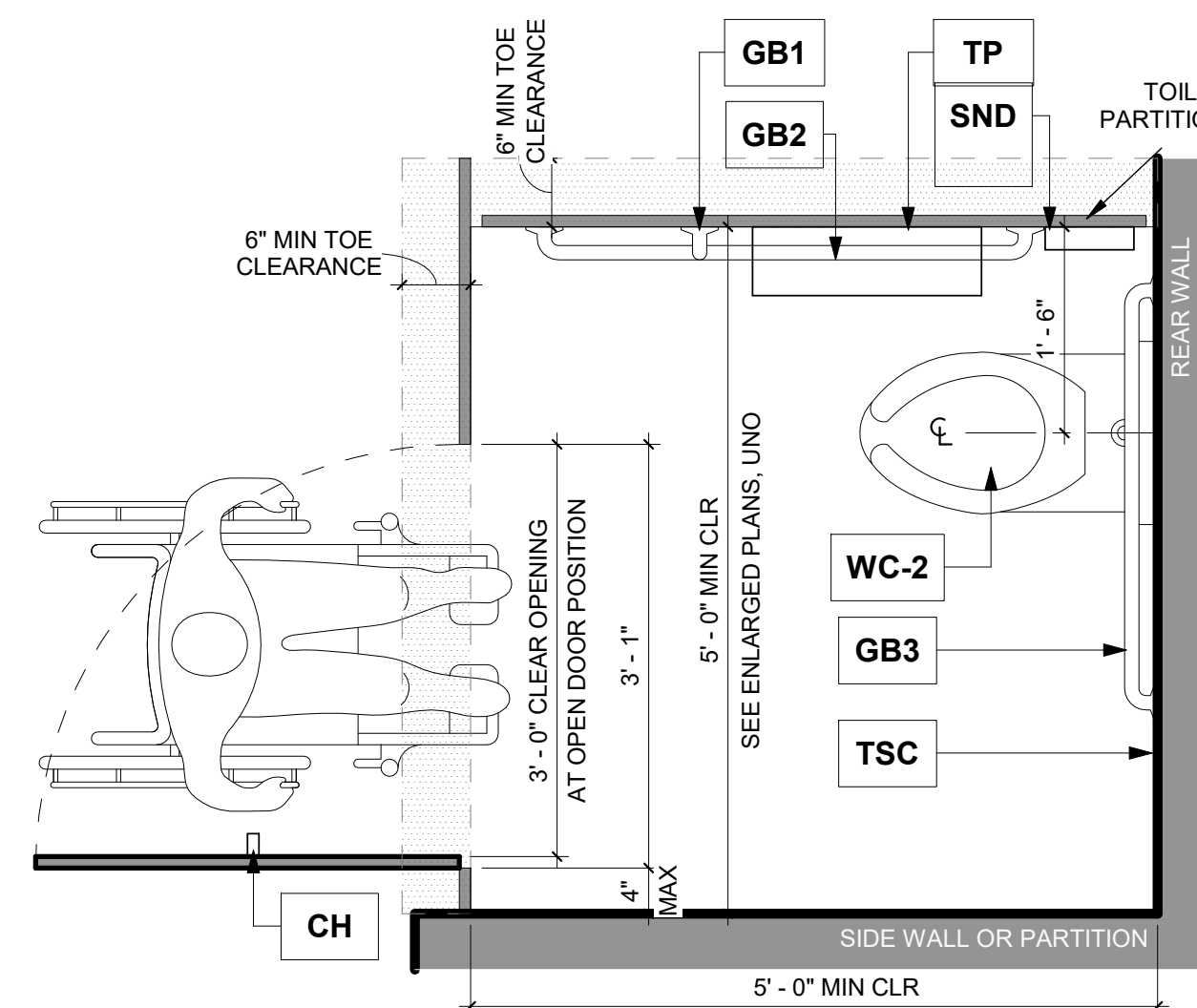
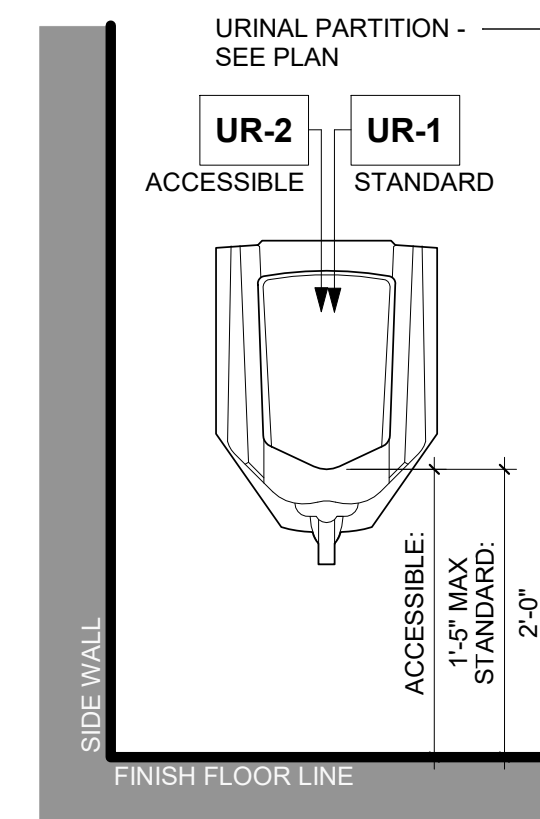
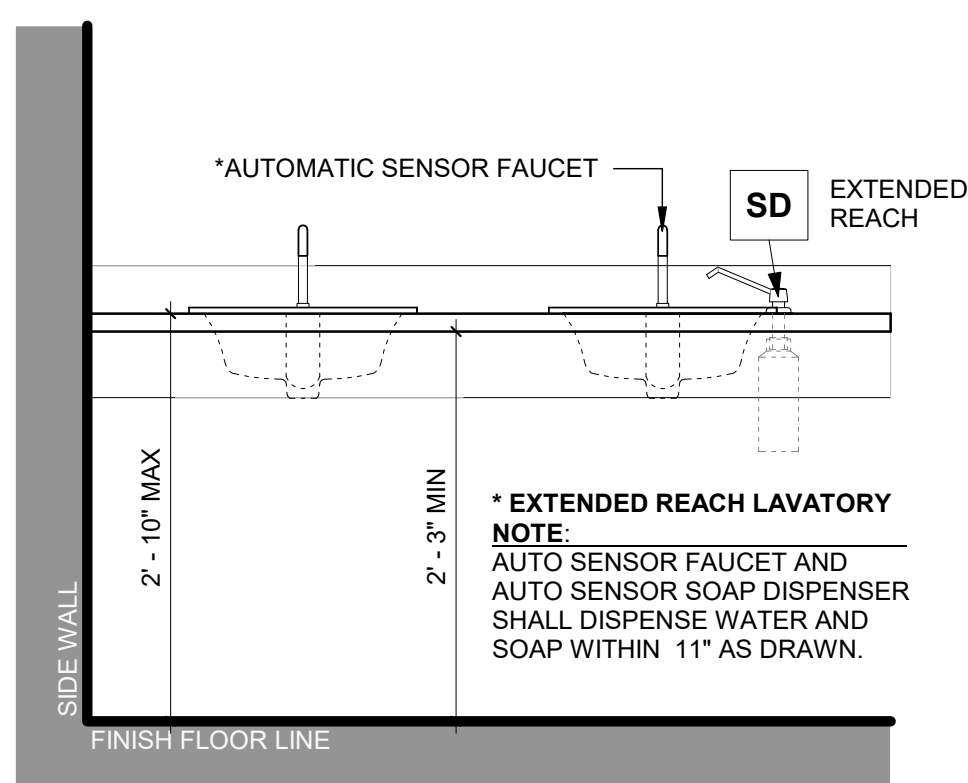
**URINAL - FLR PLAN**



**RESTROOM ACCESSORIES LEGEND**

\* PROVIDE FIRE RETARDANT WOOD BLOCKING/S OR RECOMMENDED BLOCKING/S BY MANUFACTURER FOR STRUCTURAL STABILITY.

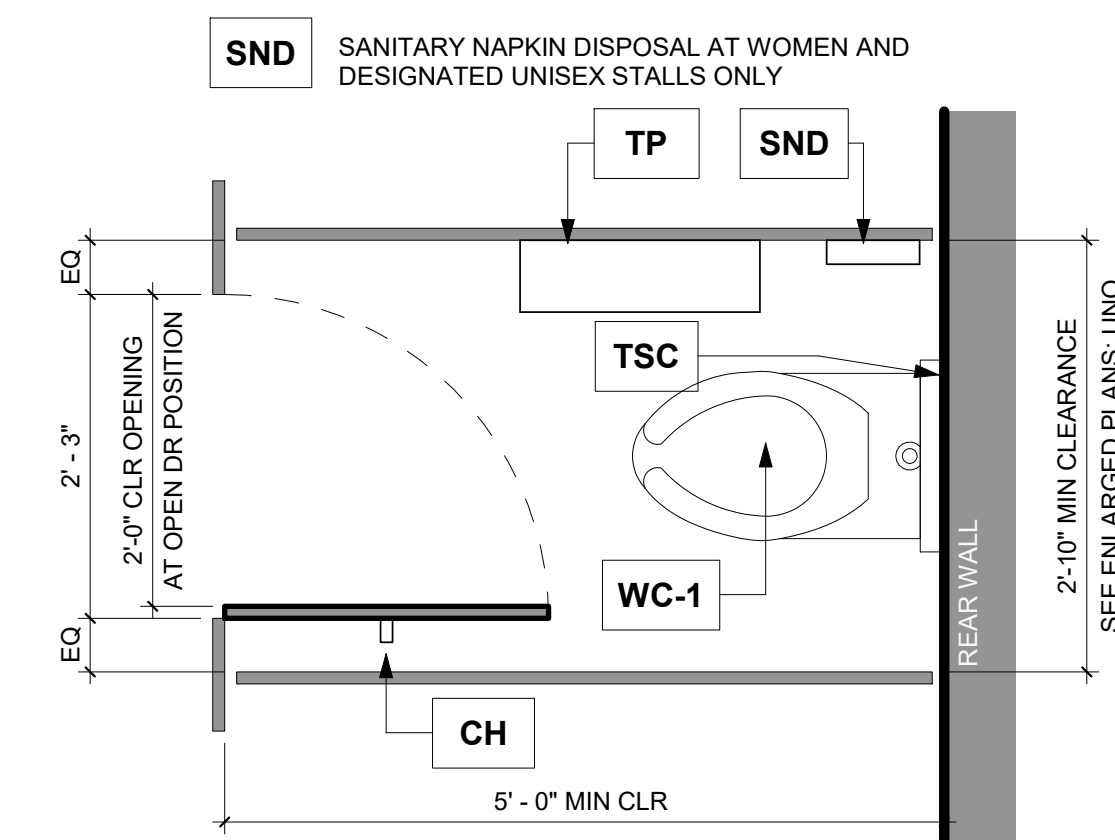
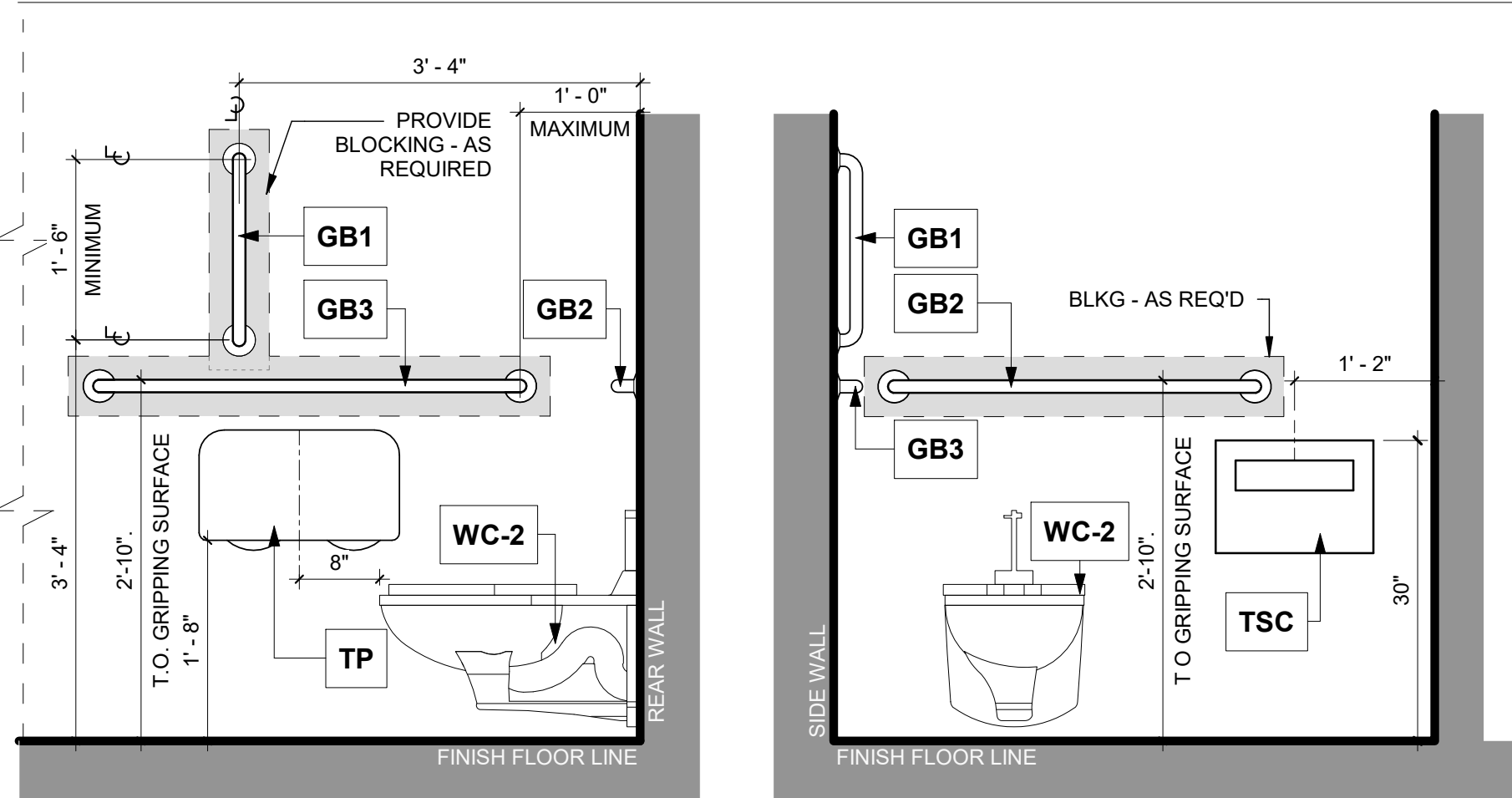
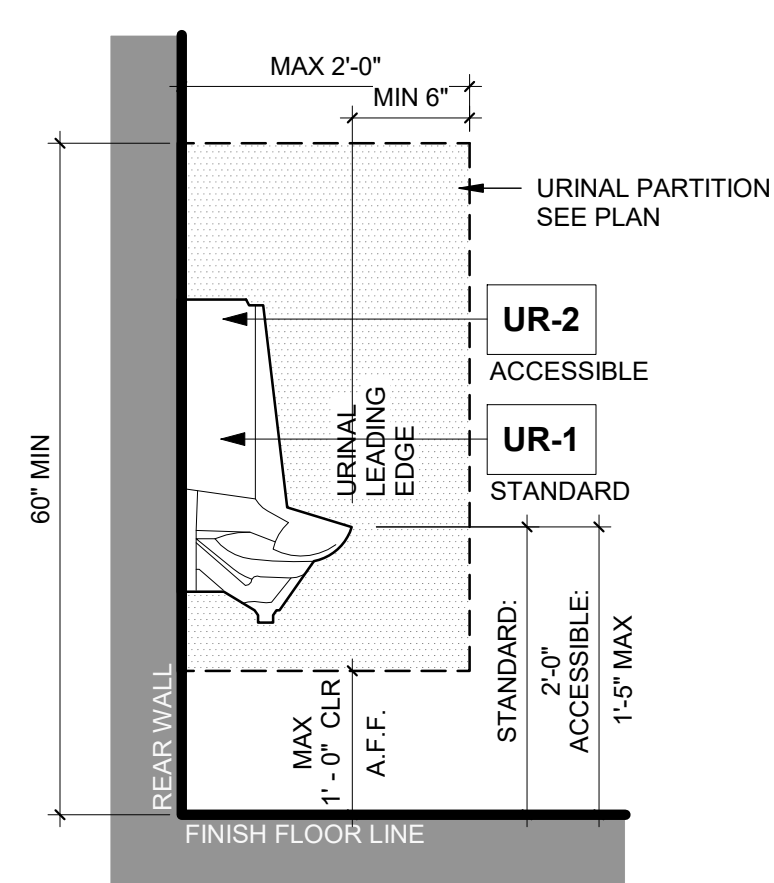
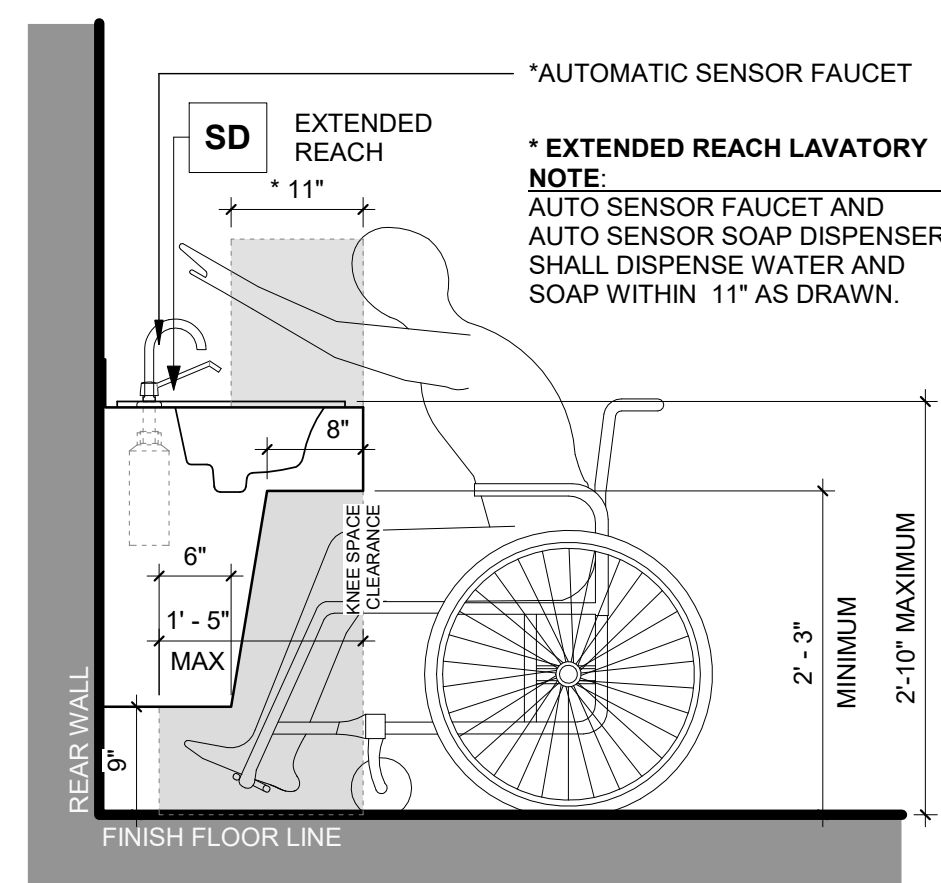
- APT** \* PAPER TOWEL DISPENSER - OFOI
- BS** \* BOOK SHELF - BOBRICK B-295 x 24, STAINLESS STEEL
- CH** COAT HOOK - BOBRICK B-211
- CT** \* CHANGING TABLE - FOUNDATIONS WORLDWIDE, INC.; 100SSE-SM (HORIZONTAL SURFACE MOUNT).
- EP** \* EDGE PROTECTION - SCHLUTER JOLLY, ANODIZED ALUMINUM
- GB1** \* GRAB BAR - 18" - BOBRICK B-6806 SERIES VERTICAL
- GB2** \* GRAB BAR - 36" - BOBRICK B-6806 SERIES HORIZONTAL
- GB3** \* GRAB BAR - 42" - BOBRICK B-6806 SERIES HORIZONTAL
- HSD** HAND SANITIZER DISPENSER - OFOI
- LAV** \* LAVATORY SINK (SEE PLUMBING SCHEDULE FOR DETAILS)
- MR** \* MIRROR - MR-1 CHANNEL FRAME STAINLESS STEEL - BOBRICK B-165 - 24"x60" MR-2 FRAMELESS CONTINUOUS - SEE ELEV FOR SIZE
- MSD** MEDICAL SHARPS DISPOSAL - OFOI
- SD** LIQUID SOAP DISPENSER - OFOI
- SND** SANITARY NAPKIN DISPOSAL - BOBRICK B-270 SURFACE MOUNTED
- TSC** TOILET SEAT COVER DISPENSER - OFOI
- TP** TOILET TISSUE DISPENSER - OFOI
- UR** \* URINAL - UR-1 STANDARD UR-2 ACCESSIBLE (HDPC) (SEE PLUMBING SCHEDULE)
- WC** \* WATER CLOSET - WC-1 STANDARD WC-2 ACCESSIBLE (HDPC) (SEE PLUMBING SCHEDULE)
- WR** WASTE RECEPTACLE - OFOI



**LAVATORY - ELEV FRNT**

**URINAL - ELEV FRNT**

**TOILET STALL C - ACCESSIBLE**



**LAVATORY - ELEV SIDE**

**URINAL - ELEV SIDE**

**ADA - ELEV SIDE**

**ADA - ELEV FRNT**

**TOILET STALL A - STANDARD**

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281

RIO SALADO COLLEGE  
A MARICOPA COMMUNITY COLLEGE

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No.	Description	Date

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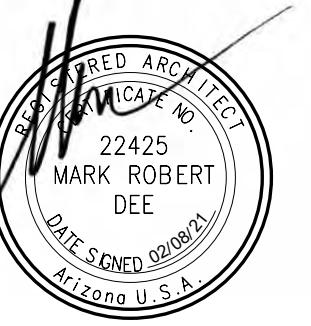
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KEY:

SHEET TITLE:  
**RR MOUNTING DIMENSIONS & TOILET STALL TYPES**

SHEET NUMBER:  
**A300**

DRAWN BY: EBL	REVIEWED BY: MRD
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



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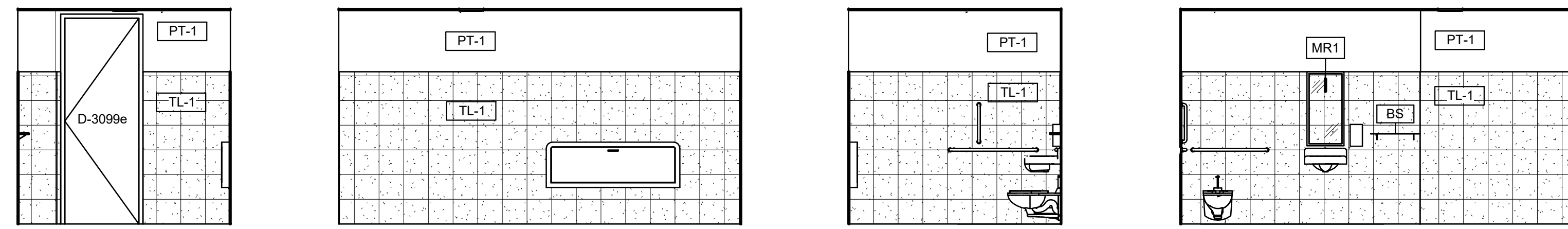
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**ENLARGED  
RESTROOM PLAN  
& ELEVATIONS**

SHEET NUMBER

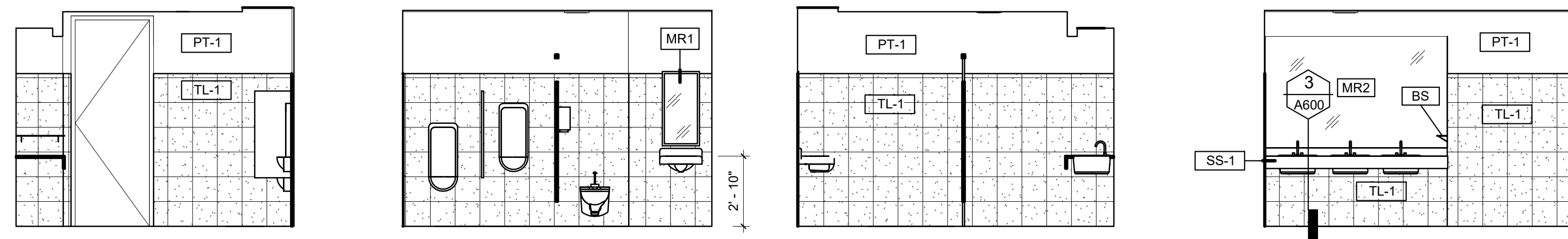
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DRAWN BY: EBL	REVIEWED BY: MRD
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



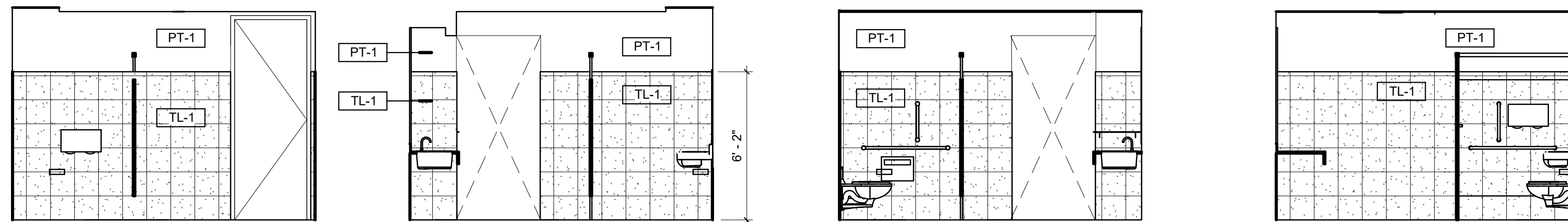
**2.2 FAMILY 2**      **2.3 FAMILY 3**      **2.4 FAMILY 4**

**2.1 FAMILY RESTROOM ELEVATIONS**  
1/4" = 1'-0"

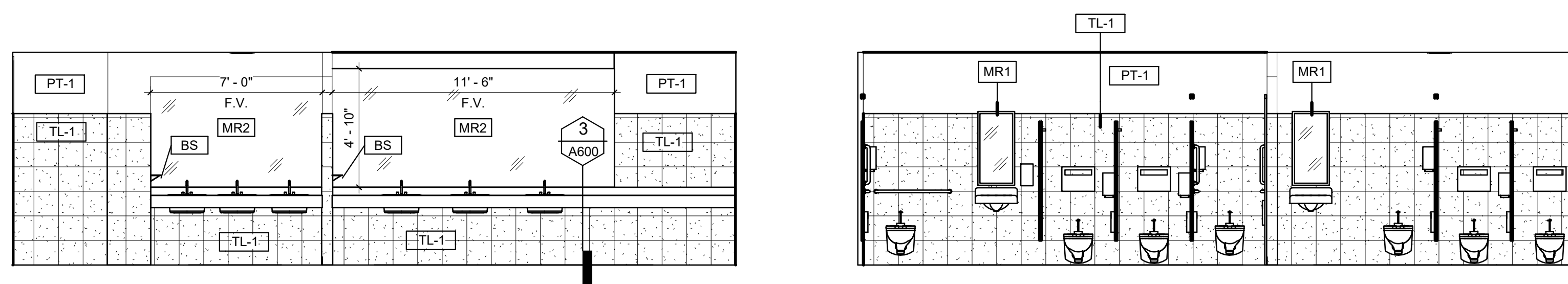


**3.2 MEN 2**      **3.3 MEN 3**      **3.4 MEN 4**

**3.1 MEN RESTROOM ELEVATIONS**  
1/4" = 1'-0"

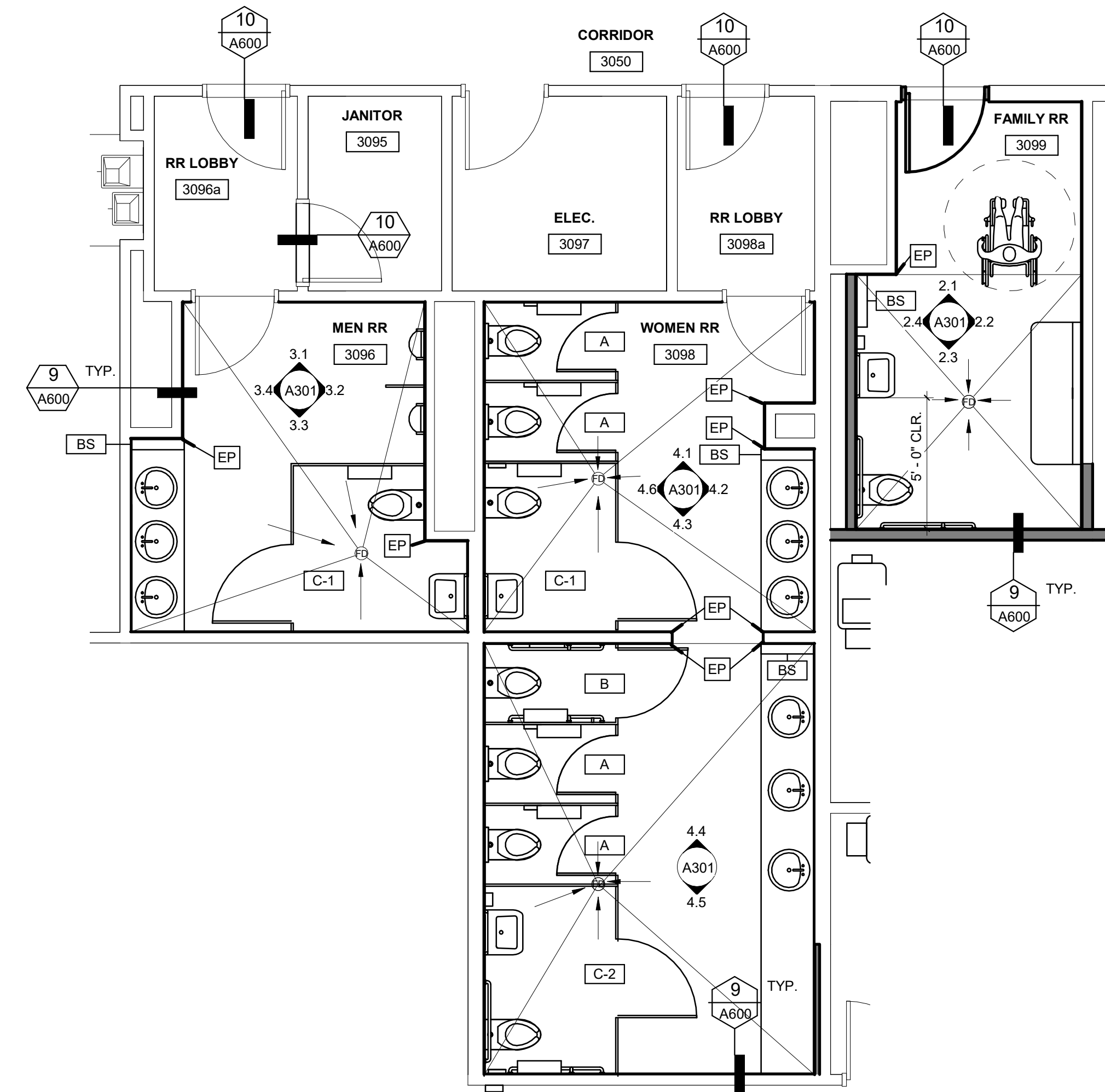


**4.1 WOMEN 1**      **4.3 WOMEN 3**      **4.4 WOMEN 4**      **4.5 WOMEN 5**



**4.2 WOMEN RESTROOM ELEVATIONS**  
1/4" = 1'-0"

**4.6 WOMEN 6**



**1 RESTROOMS PLAN**  
1/4" = 1'-0"

**RESTROOM ACCESSORIES LEGEND**

\* PROVIDE FIRE RETARDANT WOOD BLOCKING/S OR RECOMMENDED BLOCKING/S BY MANUFACTURER FOR STRUCTURAL STABILITY.

- APT** \* PAPER TOWEL DISPENSER - OFOI
- BS** \* BOOK SHELF - BOBRICK B-295 x 24, STAINLESS STEEL
- CH** COAT HOOK - BOBRICK B-211
- CT** \* CHANGING TABLE - FOUNDATIONS WORLDWIDE, INC., 100SSE-SM (HORIZONTAL SURFACE MOUNT).
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- TSC** TOILET SEAT COVER DISPENSER - OFOI
- TP** TOILET TISSUE DISPENSER - OFOI
- UR** \* URINAL - UR-1 STANDARD UR-2 ACCESSIBLE (HDGP) (SEE PLUMBING SCHEDULE)
- WC** \* WATER CLOSET - WC-1 STANDARD WC-2 ACCESSIBLE (HDGP) (SEE PLUMBING SCHEDULE)
- WR** WASTE RECEPTACLE - OFOI







REVISIONS

No.	Description	Date

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KEY:

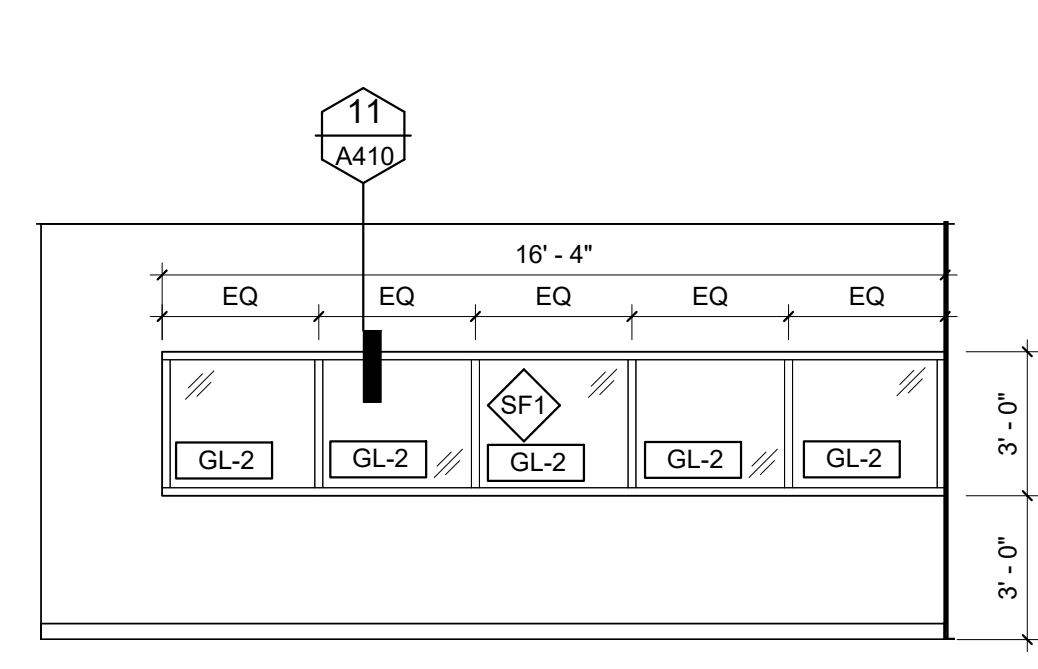
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SCHEDULE**

SHEET NUMBER

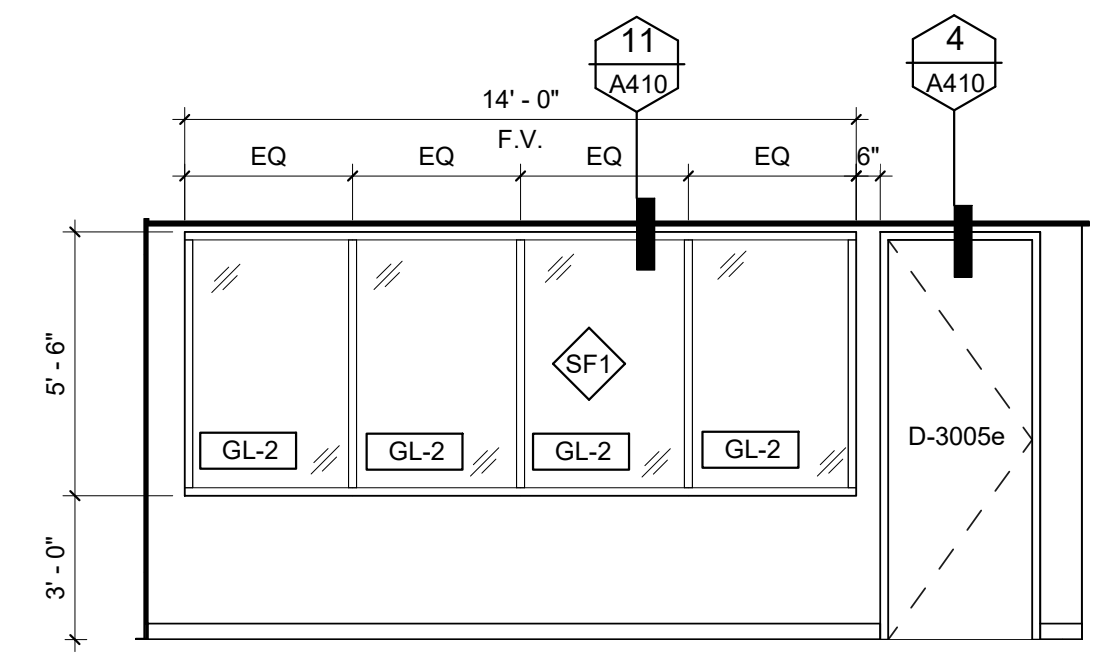
**A401**

DRAWN BY: EBL      REVIEWED BY: MRD

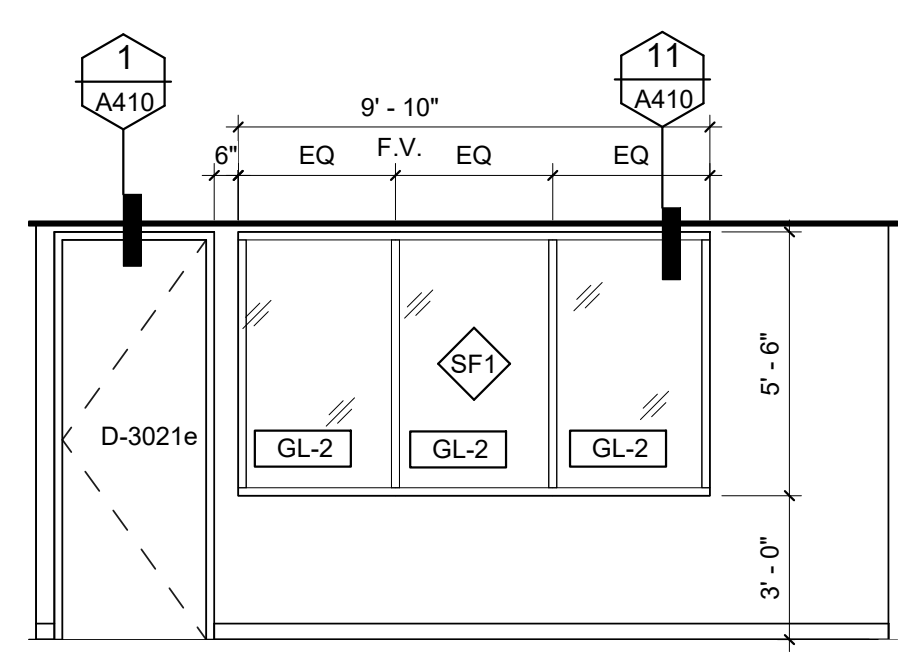
DATE: 02/08/2021      PROJECT NUMBER: 1831.00



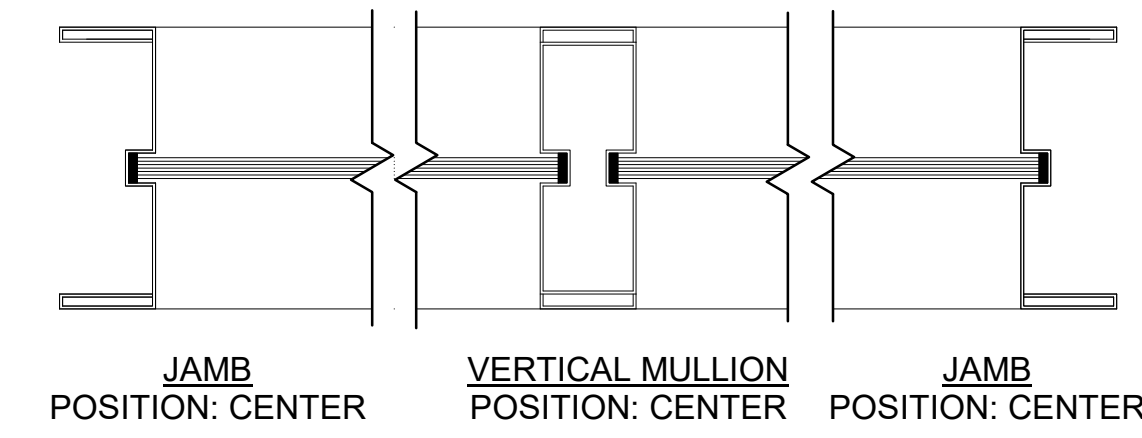
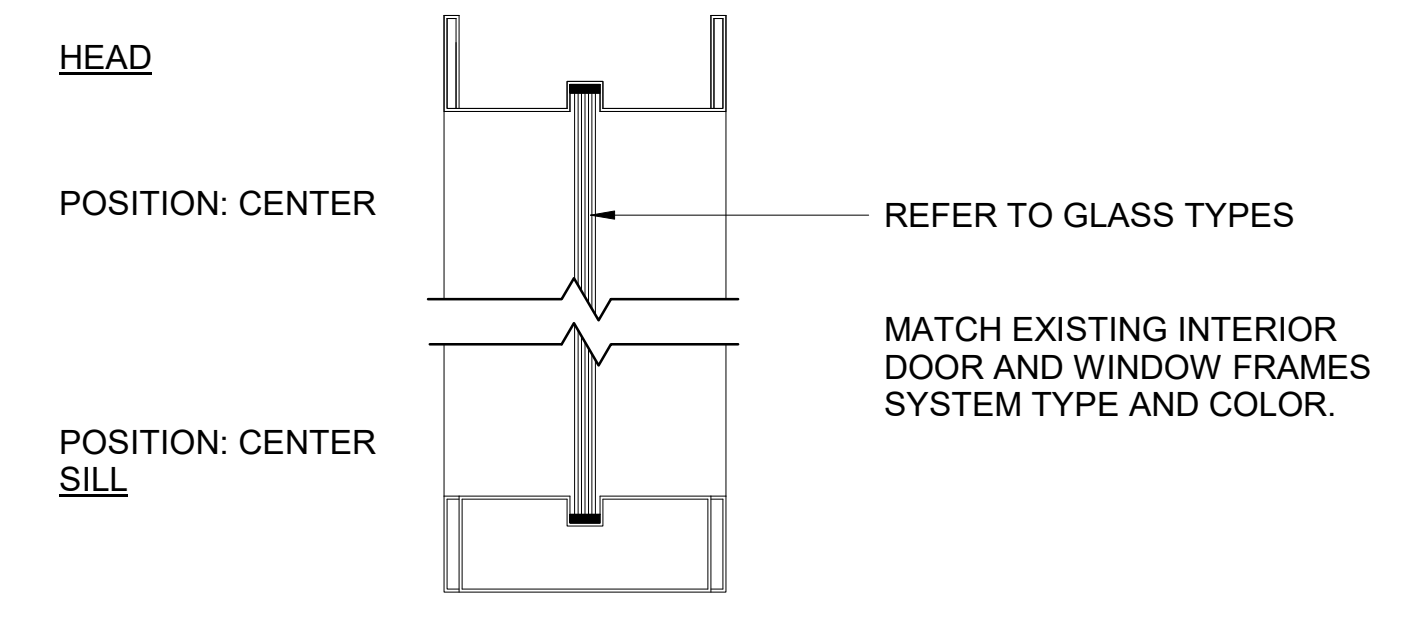
**1 SF-EPP1**  
1/4" = 1'-0"



**2 SF-RM 3005**  
1/4" = 1'-0"

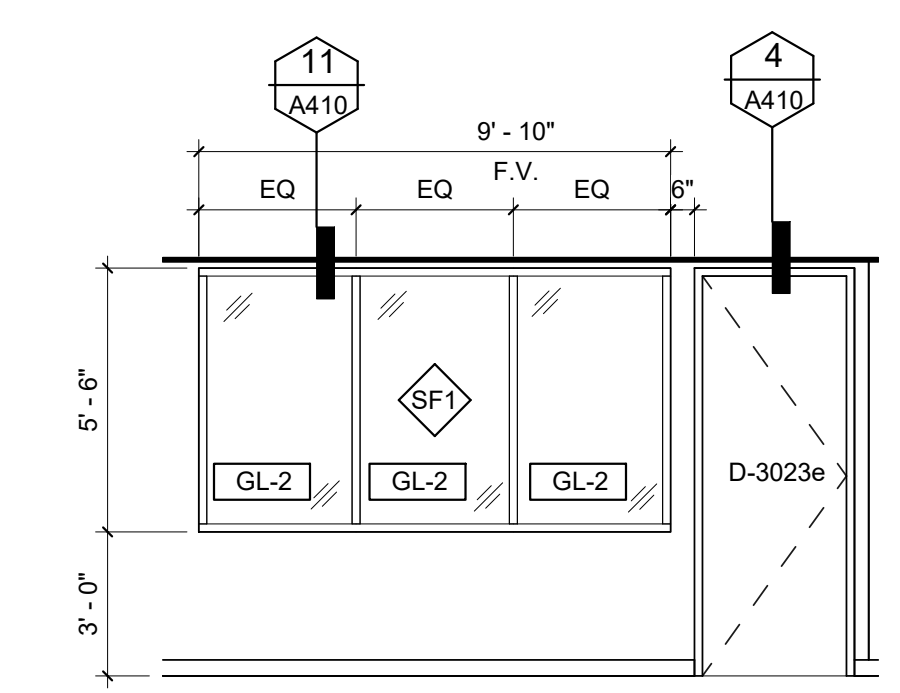


**4 SF-RM 3021**  
1/4" = 1'-0"

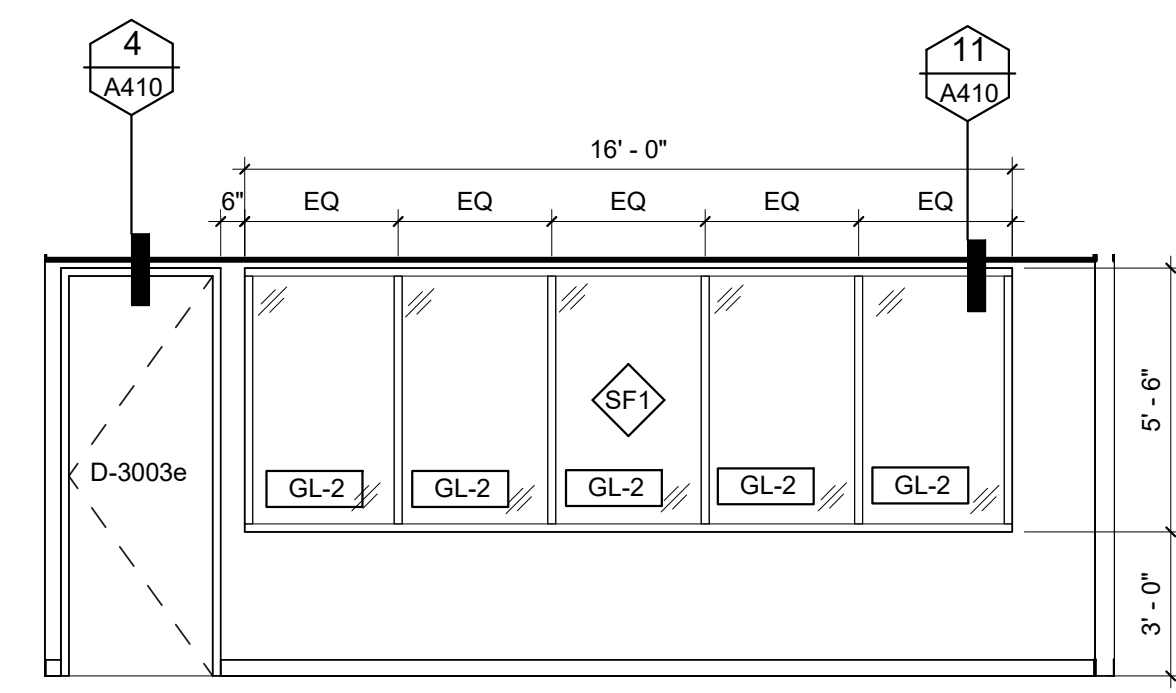


PROVIDE ATTACHEMENTS PER MANUFACTURERS DETAILS.  
PROVIDE INTERNAL STEEL REINFORCEMENT AS REQUIRED.

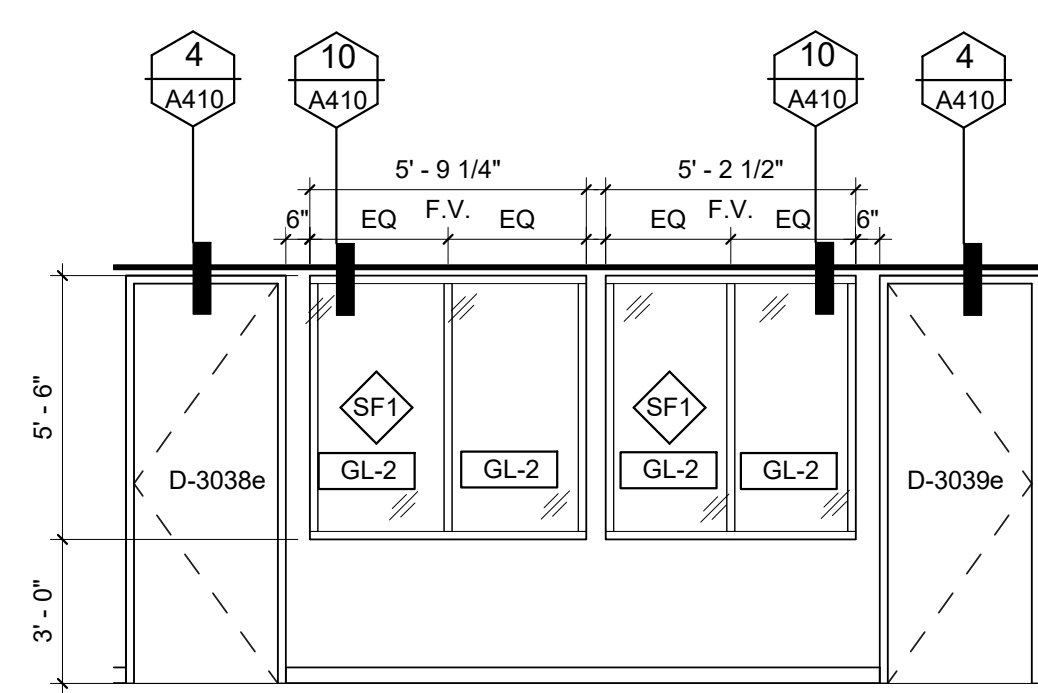
**SF1** **FIXED ALUMINUM WINDOWS**  
3" = 1'-0"



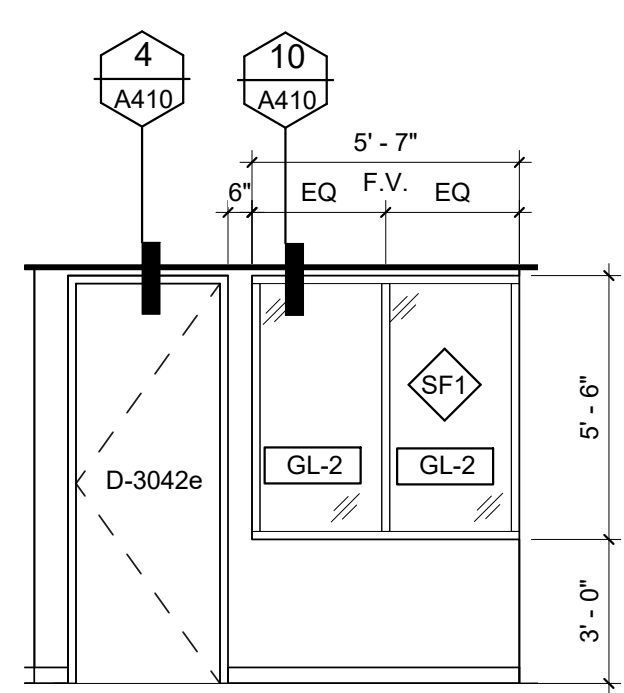
**5 SF-RM 3023**  
1/4" = 1'-0"



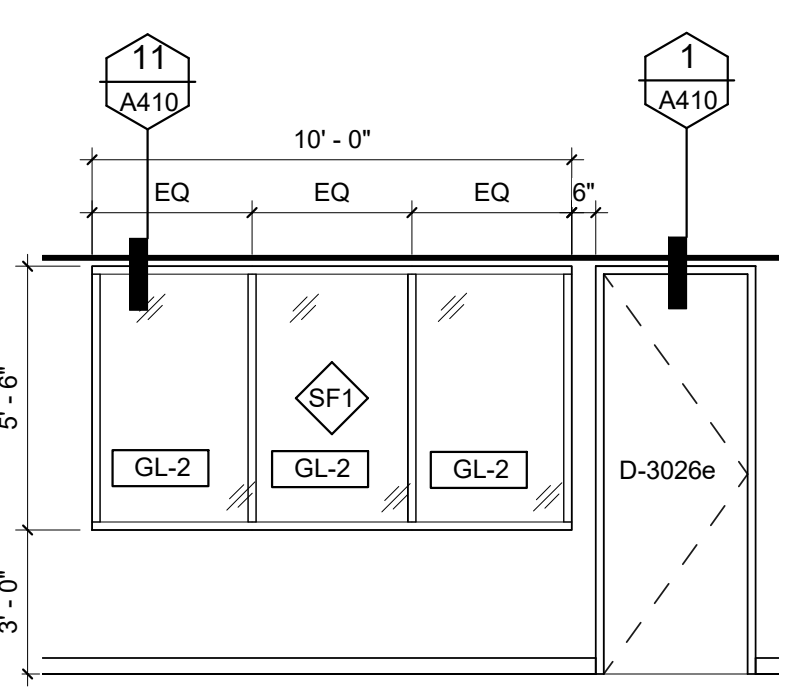
**6 SF-RM 3003**  
1/4" = 1'-0"



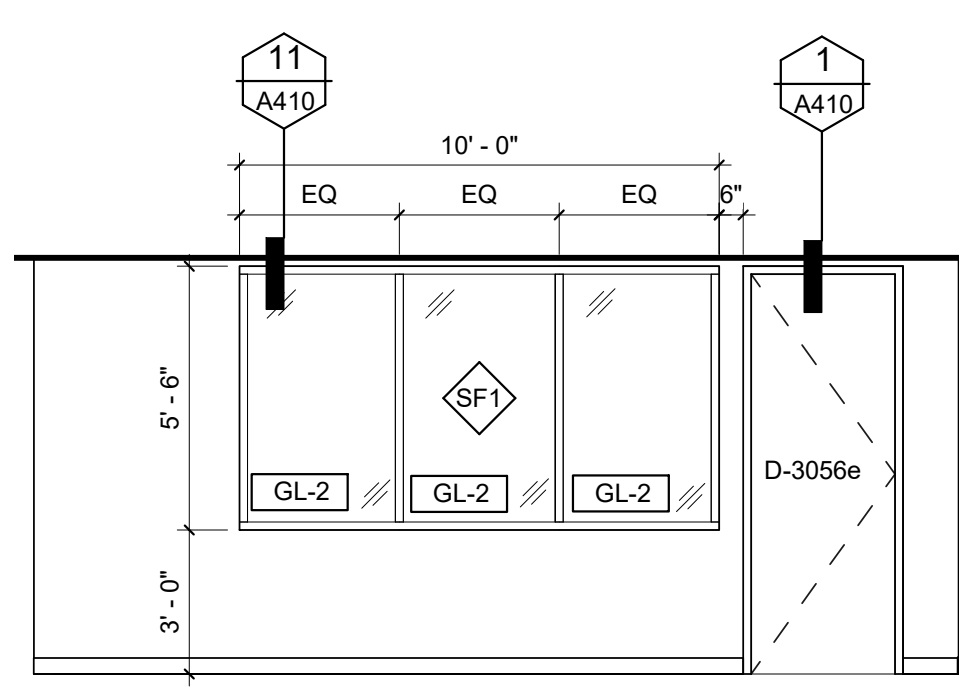
**7 SF-RM3038 & 3039**  
1/4" = 1'-0"



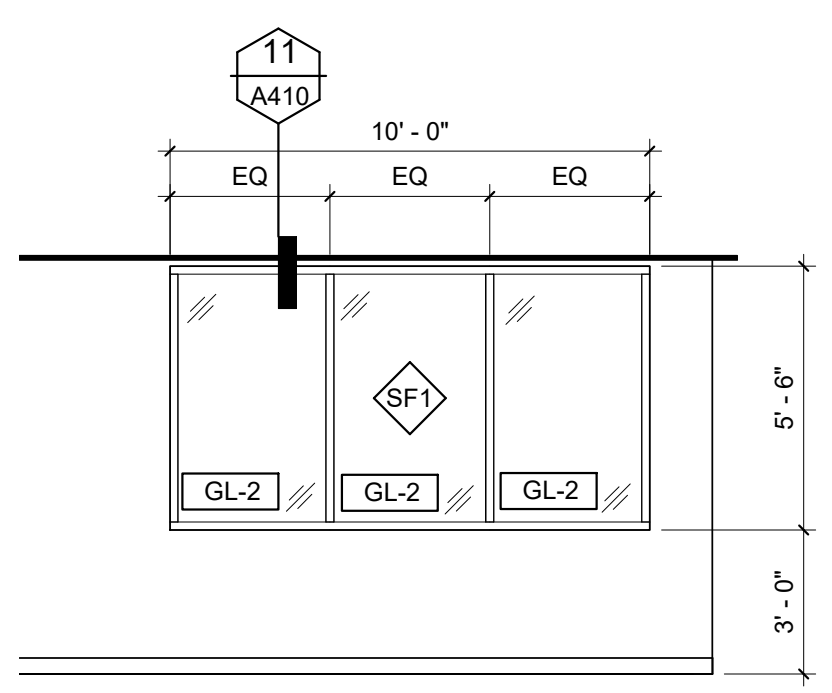
**8 SF-RM 3042**  
1/4" = 1'-0"



**9 SF-RM 3026**  
1/4" = 1'-0"



**10 SF-RM 3056**  
1/4" = 1'-0"



**11 SF-RM 3055**  
1/4" = 1'-0"



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No.	Description	Date

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KEY:

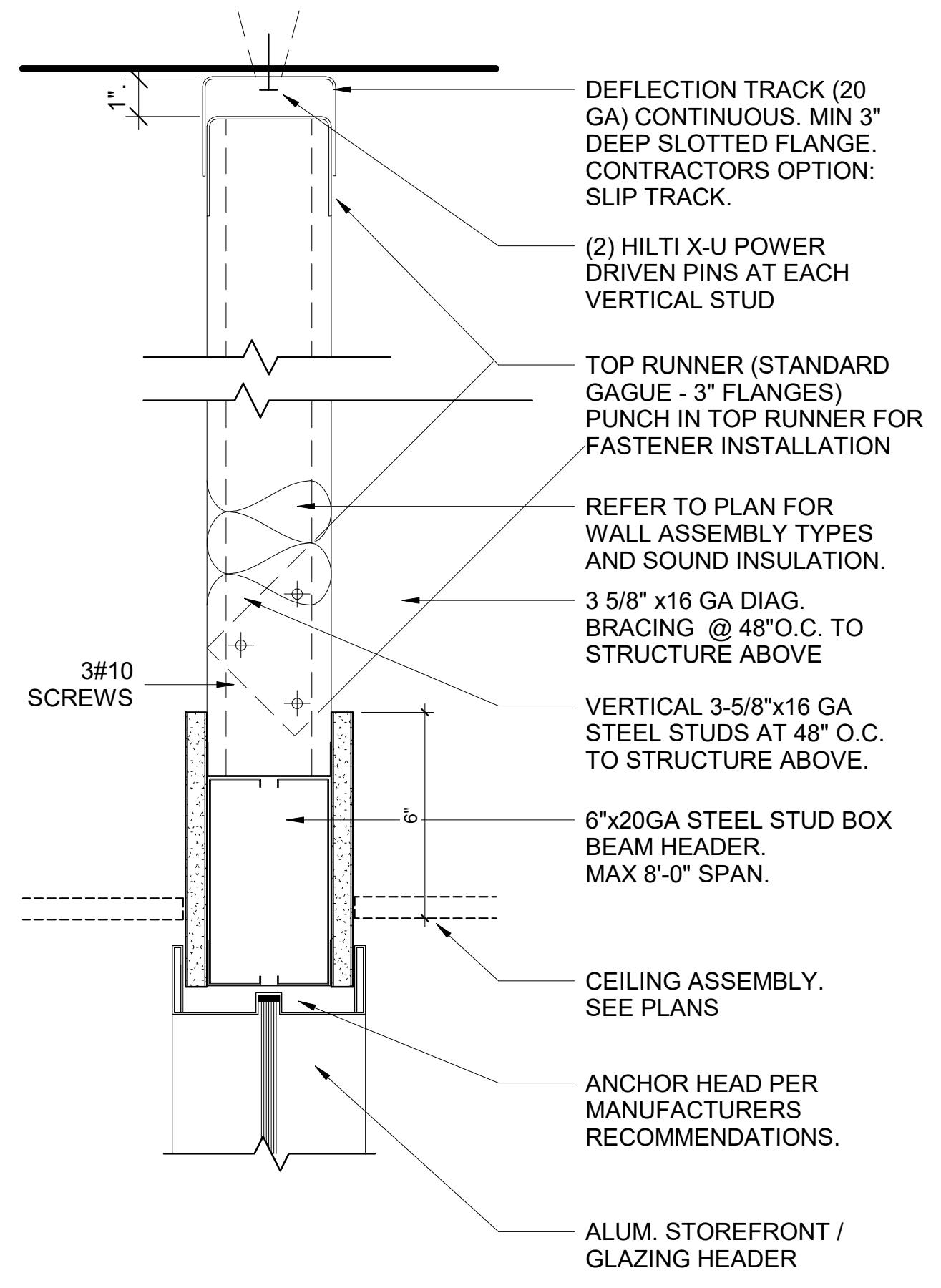
SHEET TITLE:  
**DOOR &  
STOREFRONT  
DETAILS**

SHEET NUMBER:

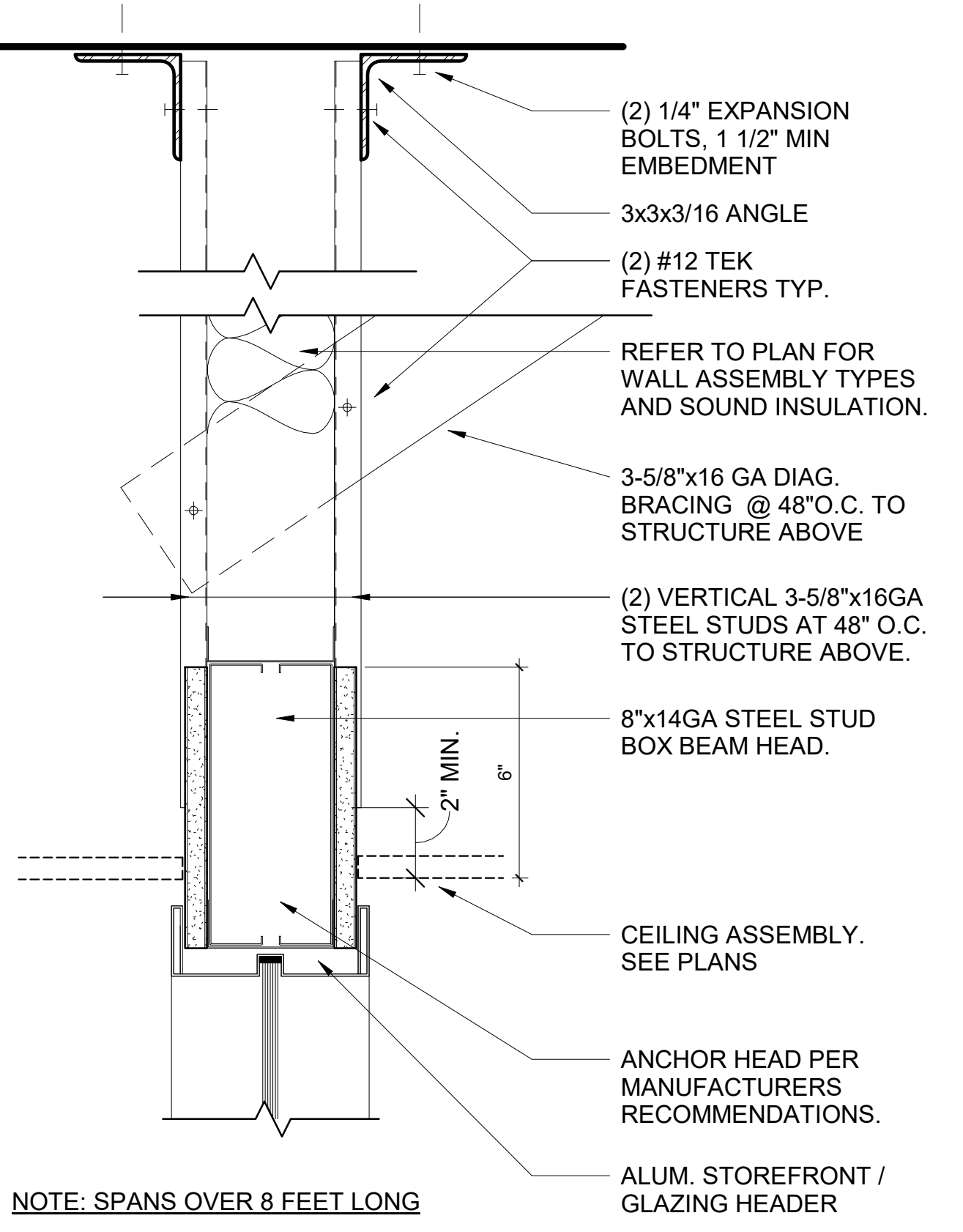
**A410**

DRAWN BY: EBL REVIEWED BY: MRD

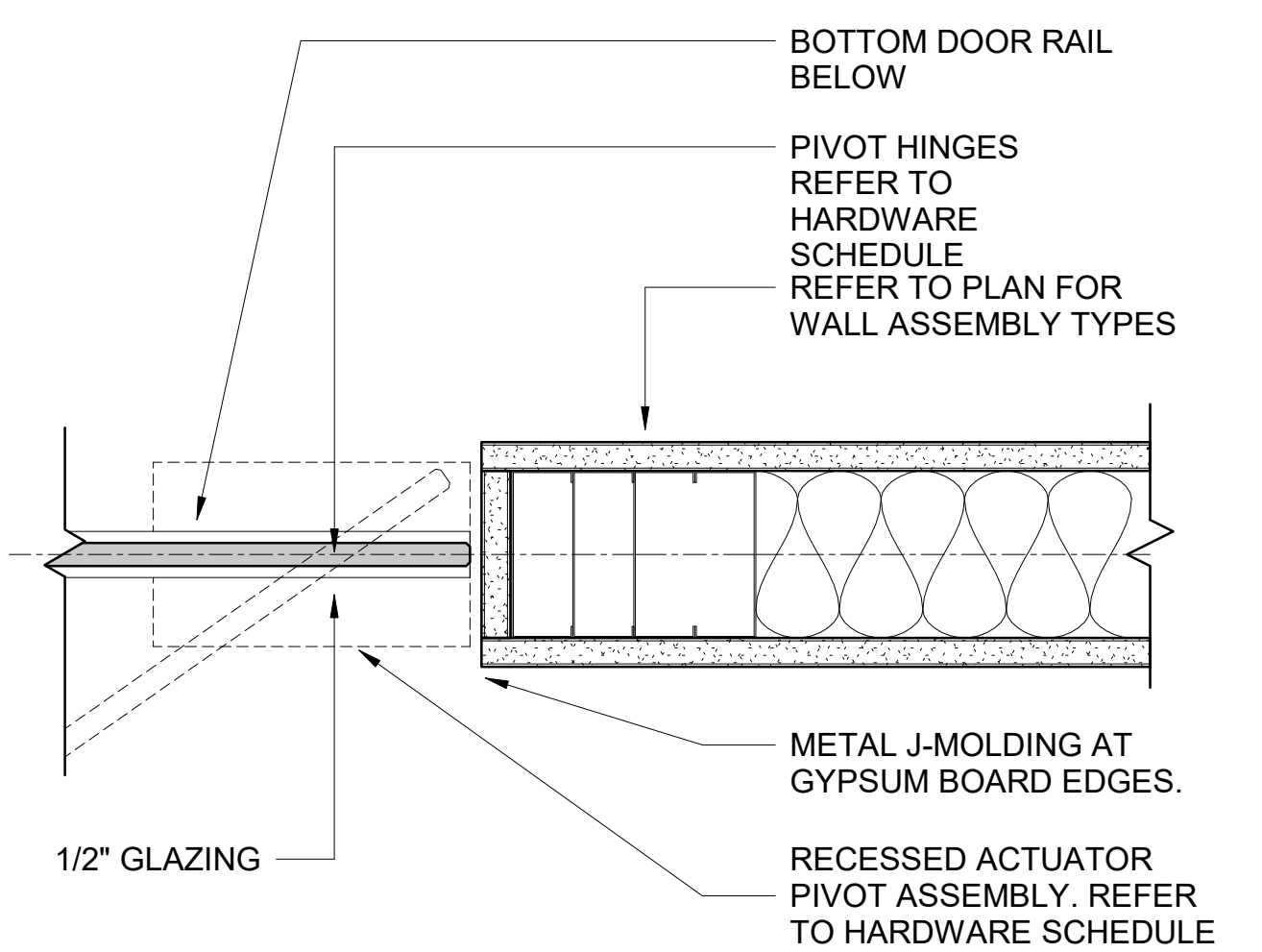
DATE: 02/08/2021 PROJECT NUMBER: 1831.00



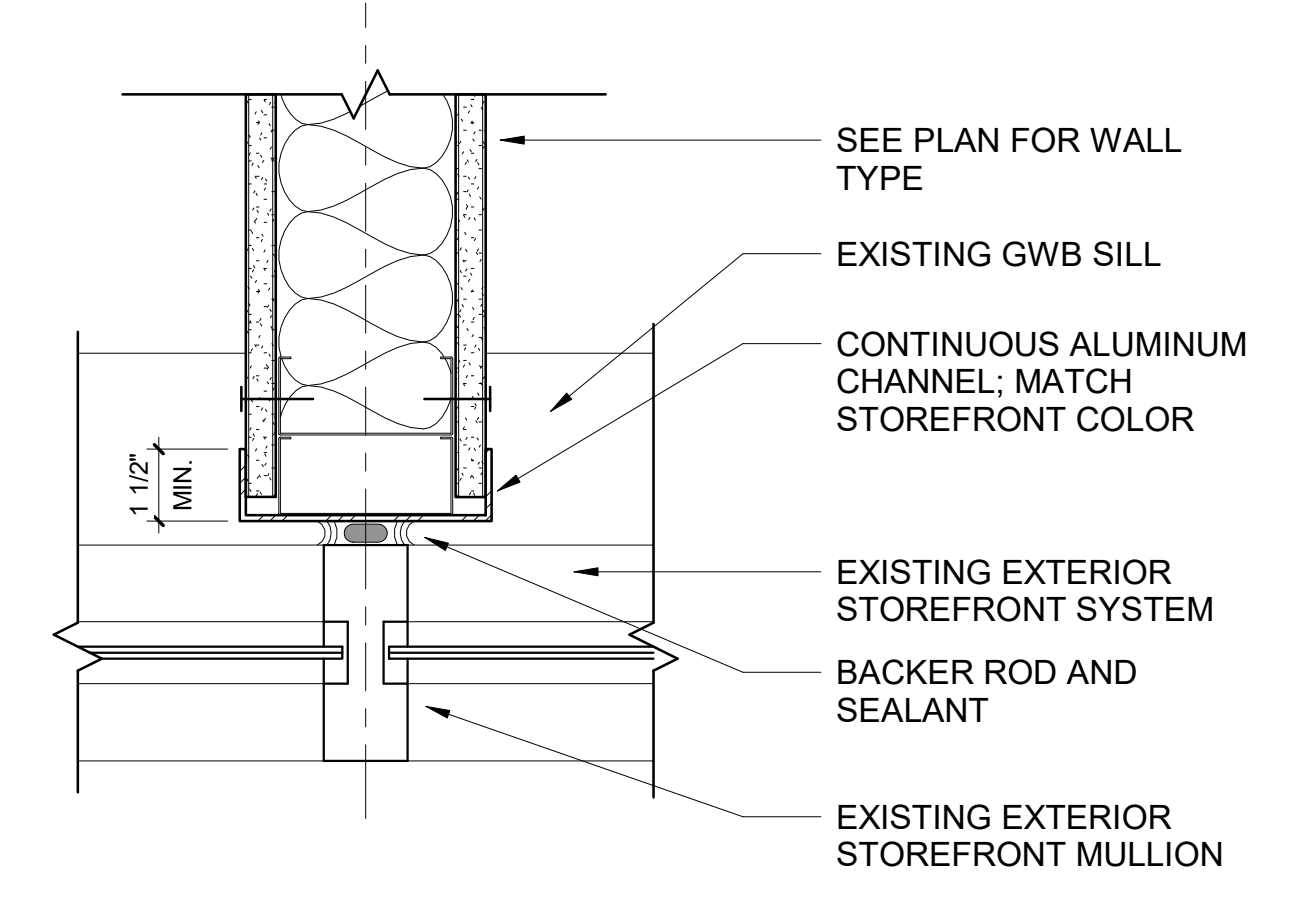
**10 TYP. HEAD DETAIL - 8' MAX SPAN**  
3" = 1'-0"



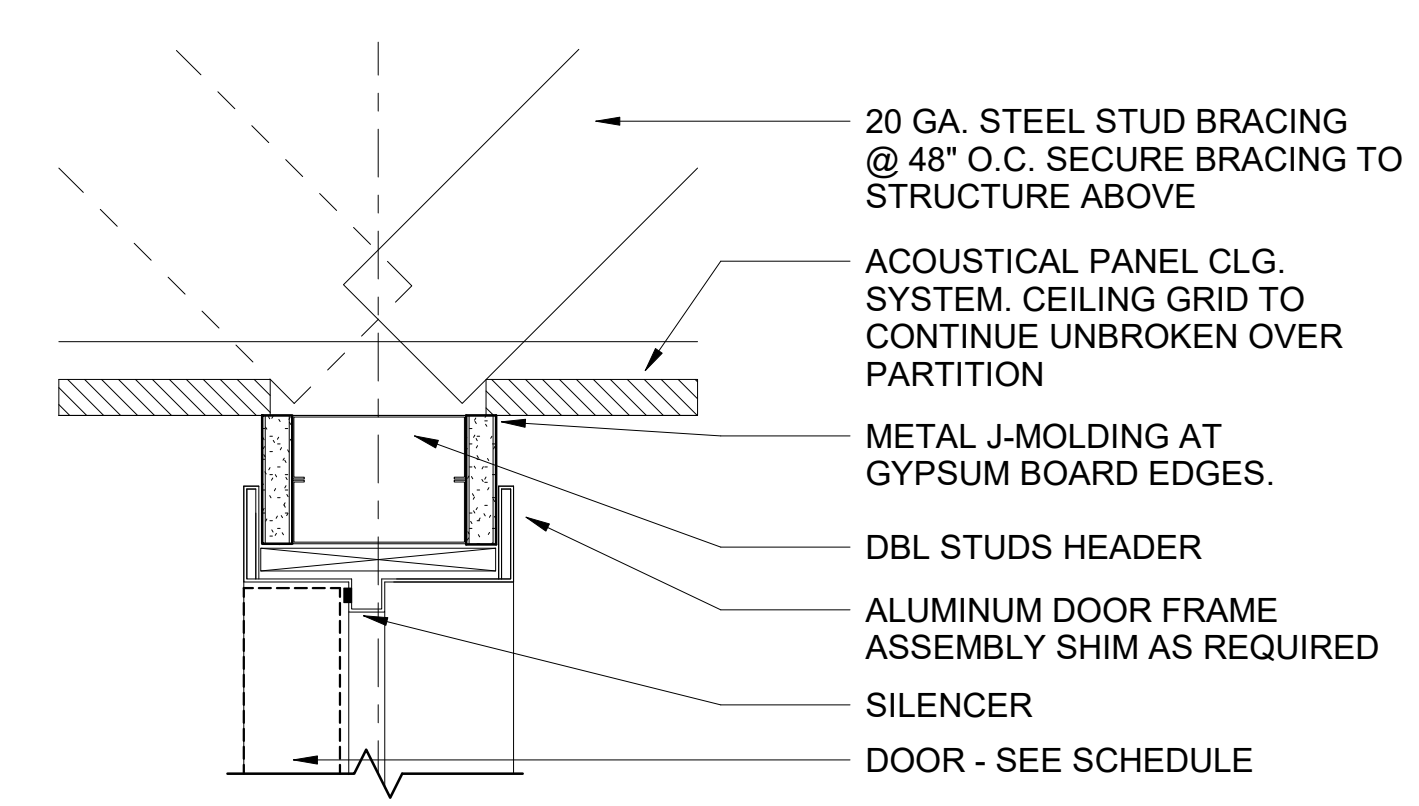
**11 TYP. HEAD DETAIL - OVER 8' SPAN**  
3" = 1'-0"



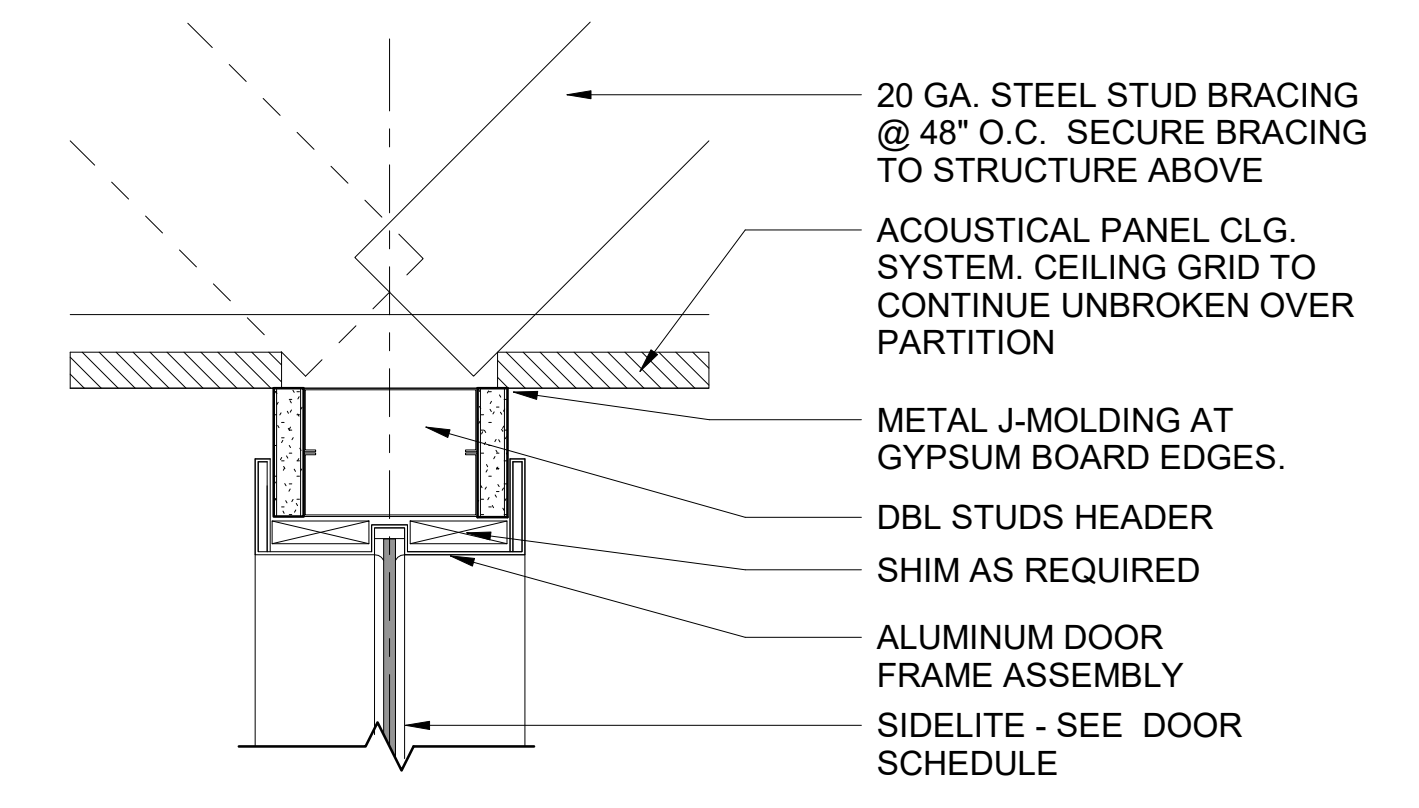
**7 FULL GLASS DOOR JAMB**  
3" = 1'-0"



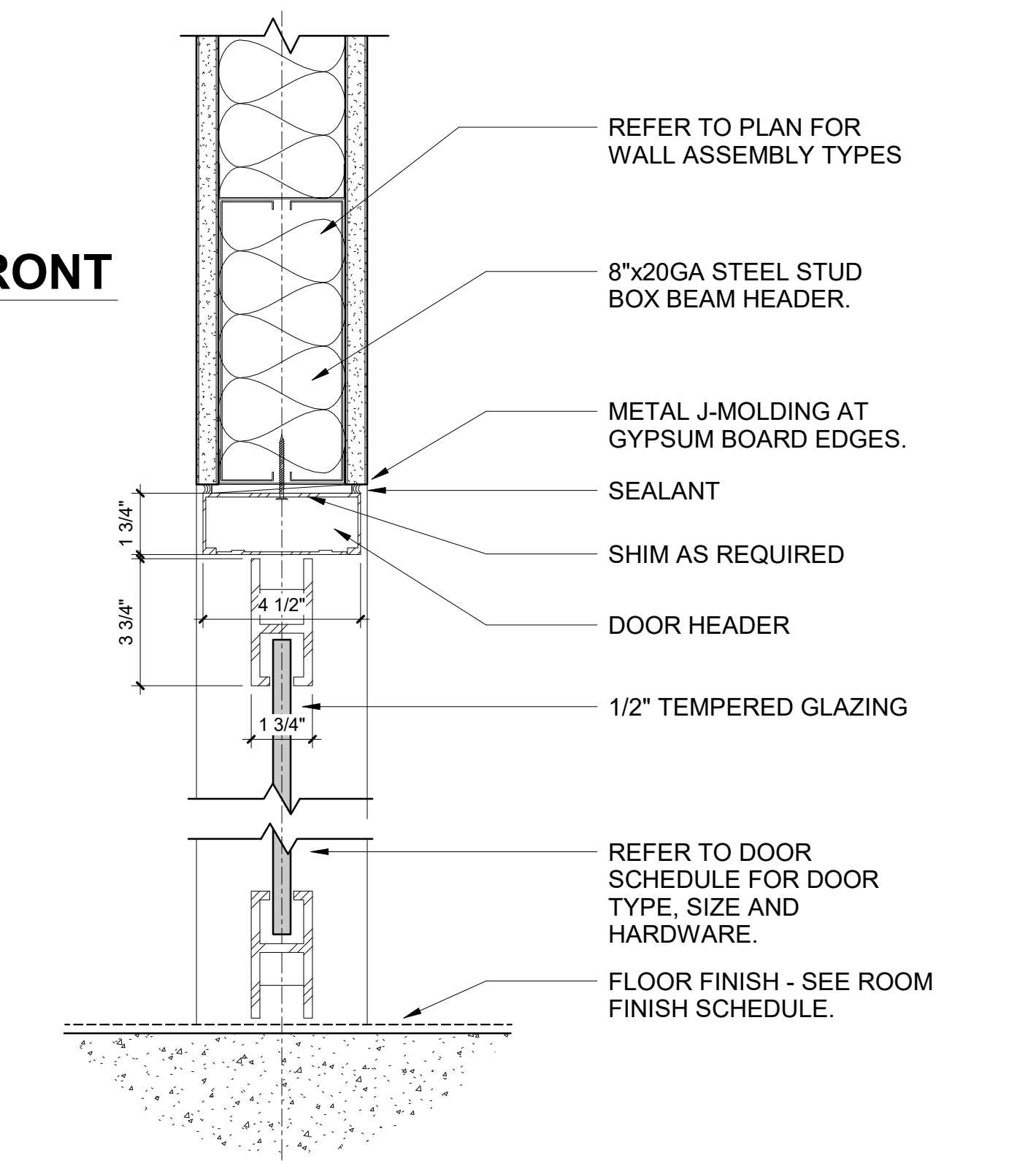
**8 WALL TERMINATION @ EXT STOREFRONT**  
3" = 1'-0"



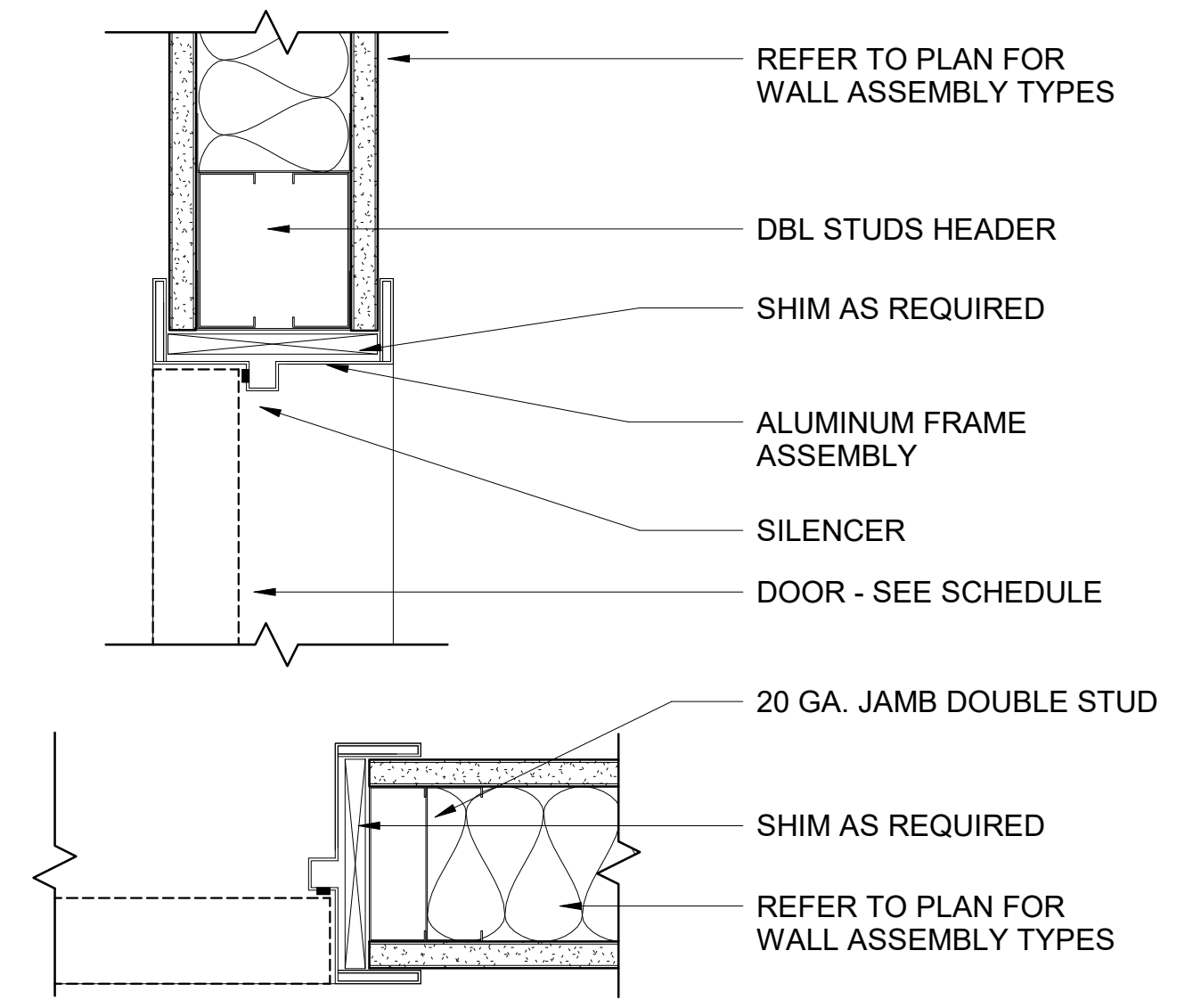
**4 ALUM DOOR FRAME HEAD @ P1**  
3" = 1'-0"



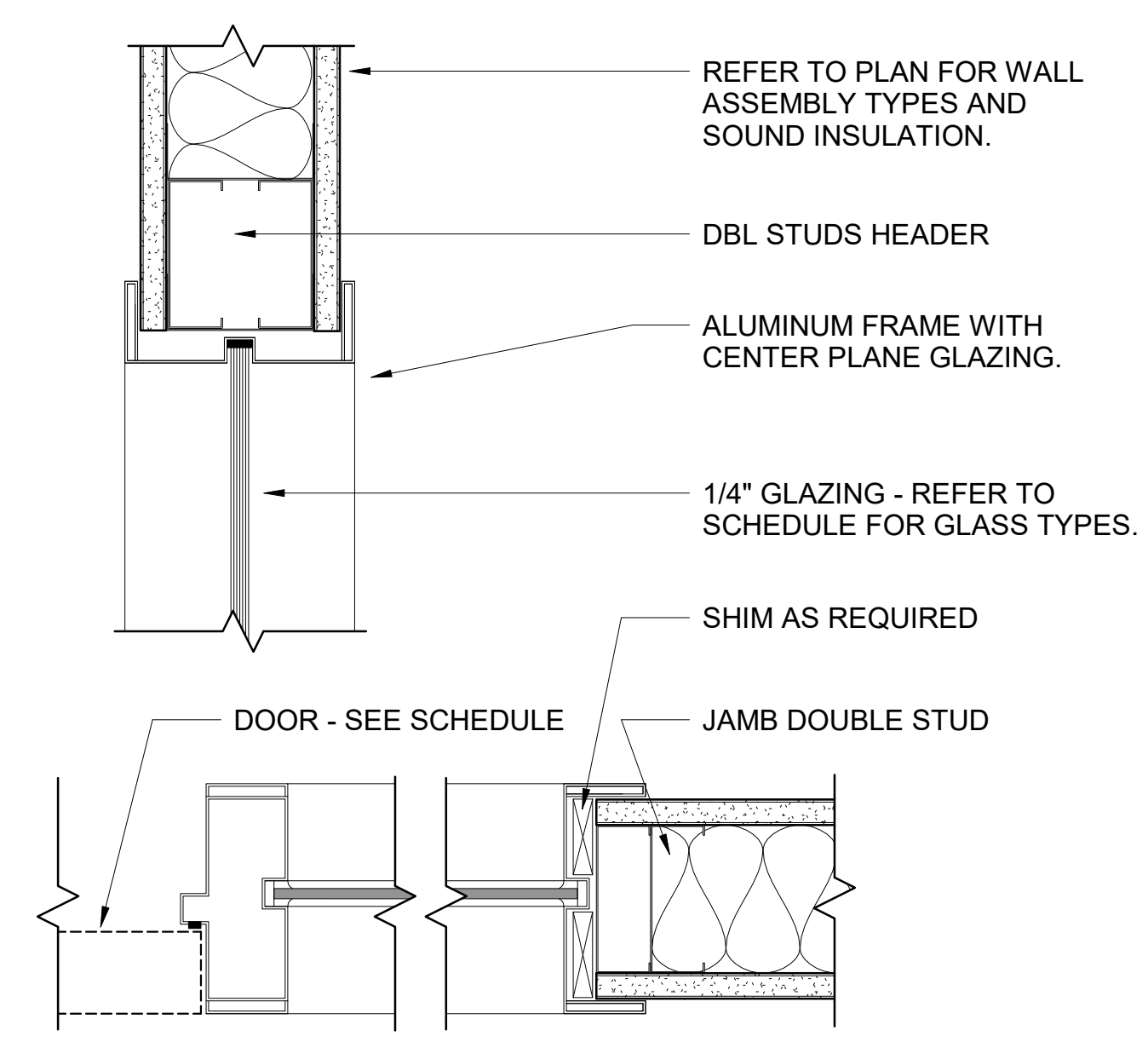
**5 ALUM SIDELITE FRAME HEAD @ P1**  
3" = 1'-0"



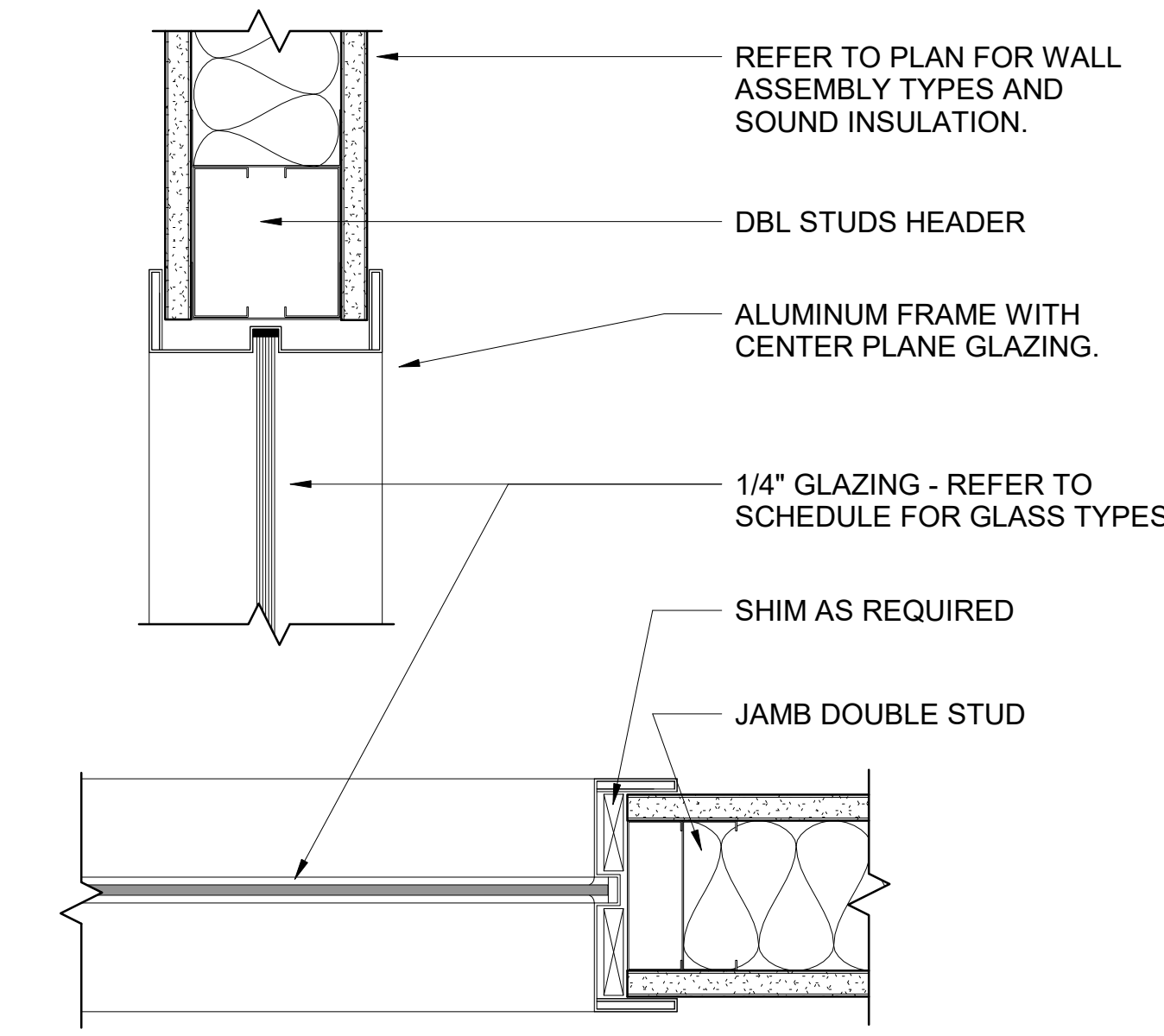
**6 FULL GLASS DOOR HEAD & SILL**  
3" = 1'-0"



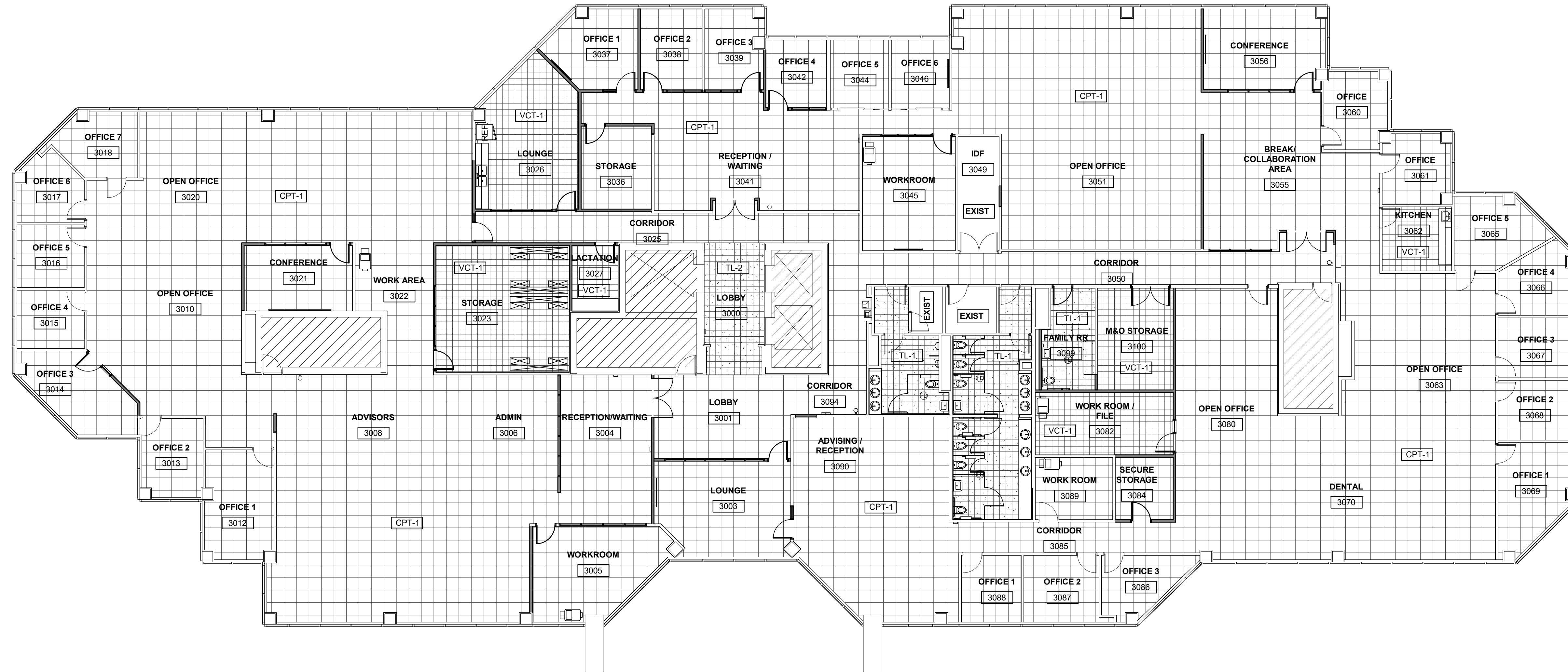
**1 ALUM FRAME DOOR HEAD/JAMB**  
3" = 1'-0"



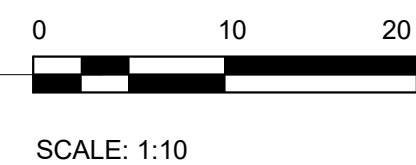
**2 ALUM FRAME SIDELITE HEAD/JAMB**  
3" = 1'-0"



**3 ALUM FRAME STOREFRONT HEAD/JAMB**  
3" = 1'-0"



**FINISHES FLOOR PLAN**  
1" = 10'-0"



MATERIAL LEGEND				
DESIGNATION	DESCRIPTION	MANUFACTURER	MODEL/COLOR	COMMENTS
CPT-1	24x24 CARPET TILE	SHAW	Focus Tile 59455, COLOR: Freedom 54505, BASE:Rubber base, Johnsonite, Burnt Umber 63	INSTALLATION: Monolithic
EXIST	EXISTING TO REMAIN	N/A		
PLAM-1	PLASTIC LAMINATE	TBD	TBD (As selected from manufacturer's full range).	
PLAM-2	PLASTIC LAMINATE	TBD	TBD (As selected from manufacturer's full range).	
PT-1	PAINT (FIELD)	DUNN EDWARDS	COLOR: DE6225 Fossil	
PT-2	PAINT (ACCENT 1)	TBD	TBD	Accent paint color and locations TBD
PT-3	PAINT (ACCENT 2)	TBD	TBD	Accent paint color and locations TBD
PT-4	PAINT (ACCENT 3)	TBD	TBD	Accent paint color and locations TBD
SS-1	SOLID SURFACE COUNTER RESTROOMS	TBD	TBD	Match existing 6th floor restrooms counter
SS-2	SOLID SURFACE COUNTER LOUNGE	TBD	COLOR: TBD (As selected from manufacturer's full range).	
TL-1	12x12 CERAMIC TILE	TBD	TBD	Match existing 6th floor restrooms tile
TL-2	12x12 STONE TILE	DALTILE	Travertine T720 Baja Cream (honed), SIZE: 12"x12", GROUT: MAPEI Sahara Beige, BASE: 4" x 12" Stone Tile (cut 12x12 tile)	
VCT-1	12x12 VINYL TILE	ARMSTRONG	Standard Excelon, Imperial Texture 59234 Silk, SIZE 12"x12", BASE:Rubber base, Johnsonite, Burnt Umber 63	

**GENERAL FINISH NOTES**

- PAINT ALL GYPSUM BOARD WALLS PT-1, U.N.O. ACCENT PAINT AND SURFACES AS NOTED ON PLANS.
- ALL CAULKING PRODUCTS AND SEALANT (EXPOSED TO VIEW) WHERE USED NEXT TO OR ADJACENT TO DOOR FRAMES, WINDOWS FRAMES, ETC., SHALL MATCH COLOR OF SURROUNDING WALL AREAS, NOT THE COLOR OF DOOR OR WINDOW FRAMING MEMBERS
- ALL WOOD BLOCKING, OR ROUGH CARPENTRY MATERIAL SHALL BE FIRE RETARDANT TREATED LUMBER. THIS INCLUDES PLYWOOD AND PARTICLE BOARD.
- INTERIOR FINISHES SHALL COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE CHAPTER 8 SECTIONS 803, 804 & 805. FLAME SPREAD: 26-75 CLASS B EXCEPT AT STAIRS WHICH SHALL BE CLASS A. & A SMOKE DEVELOPMENT OF 0-450 CLASS B.
- FLOOR AREAS SHOW ARE APPROXIMATE. CONTRACTOR TO CONFIRM MATERIAL TAKE-OFFS FOR PROPER QUANTITIES.
- GWB FINISH AND TEXTURE AT NEW WALLS SHALL MATCH EXISTING ADJACENT SURFACES.
- REFER TO FLOOR TRANSITION DETAILS FOR APPLICABLE INSTALLATION TYPE (SHEET A600).

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281



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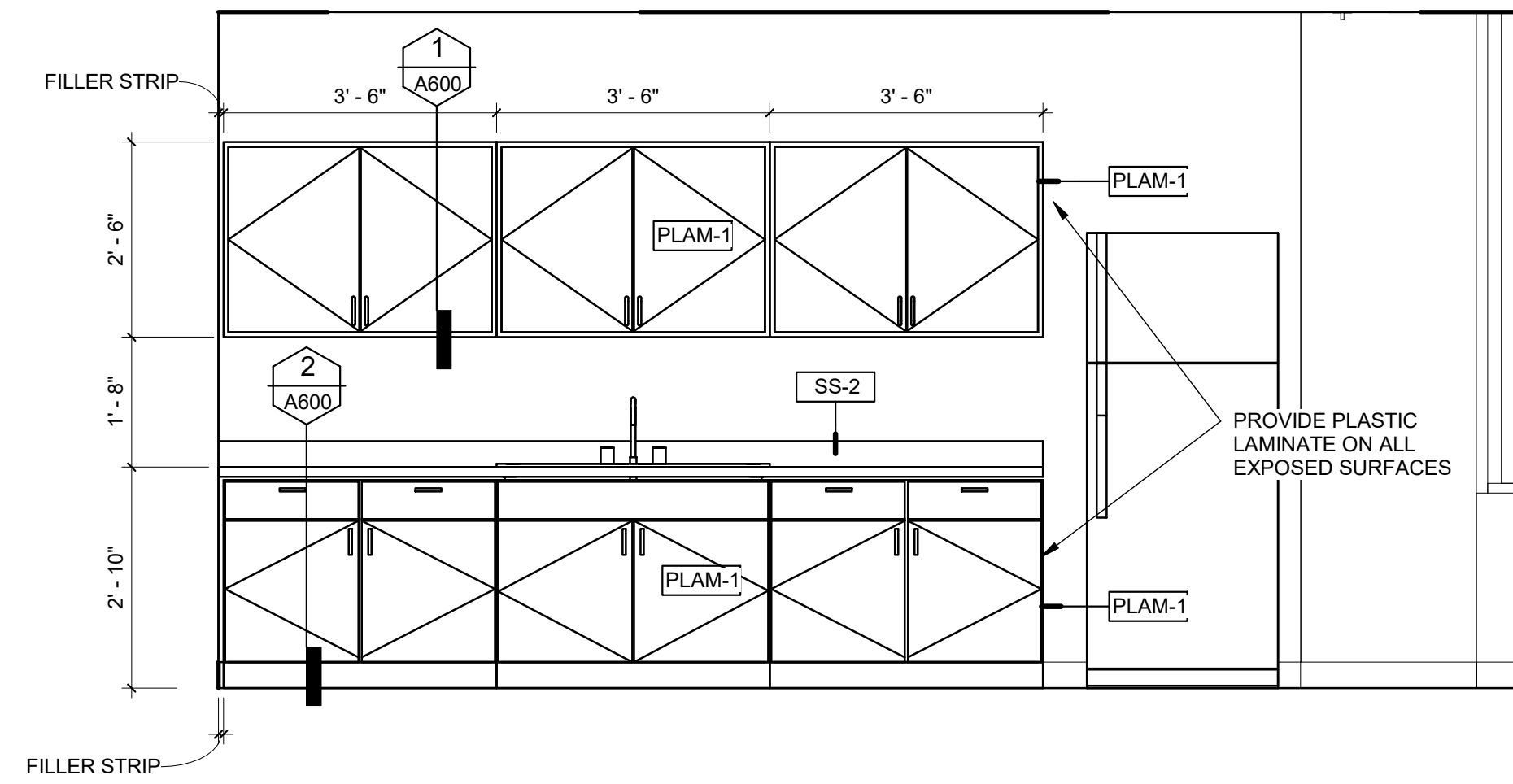
KEY:

SHEET TITLE:  
**ROOM FINISH PLAN**

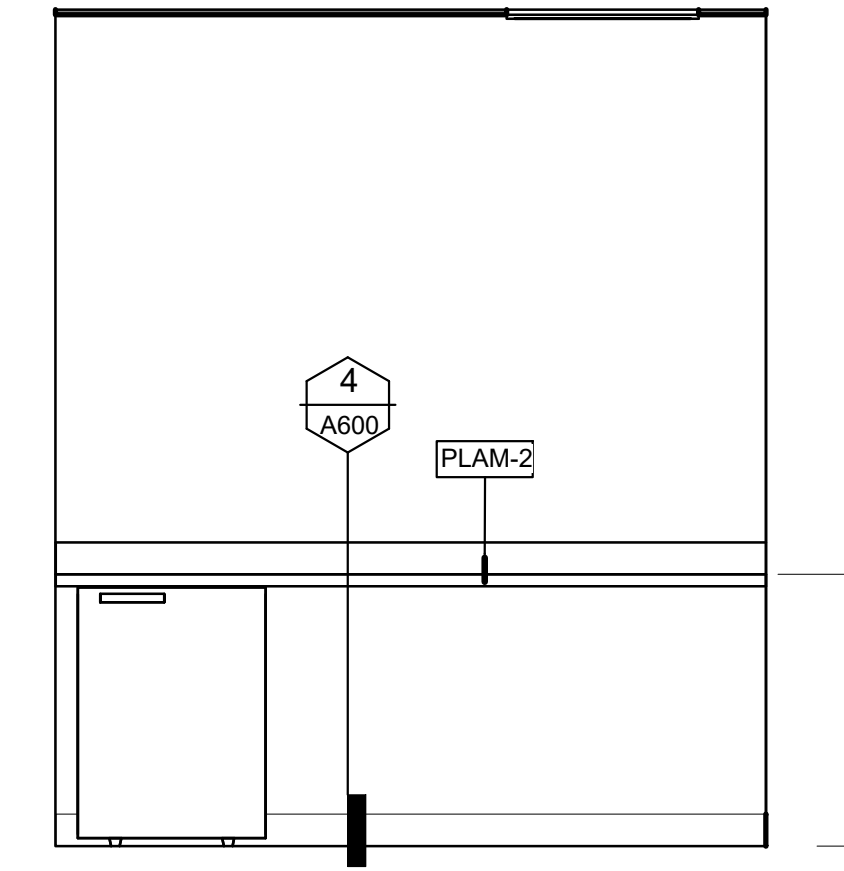
SHEET NUMBER:  
**A500**

DRAWN BY: EBL	REVIEWED BY: MRD
DATE: 02/08/2021	PROJECT NUMBER: 1831.00

2/8/2021 7:15:05 PM



**2** LOUNGE CASEWORK  
1/2" = 1'-0"



**1** LACTATION RM COUNTER  
1/2" = 1'-0"



REVISIONS		
No.	Description	Date

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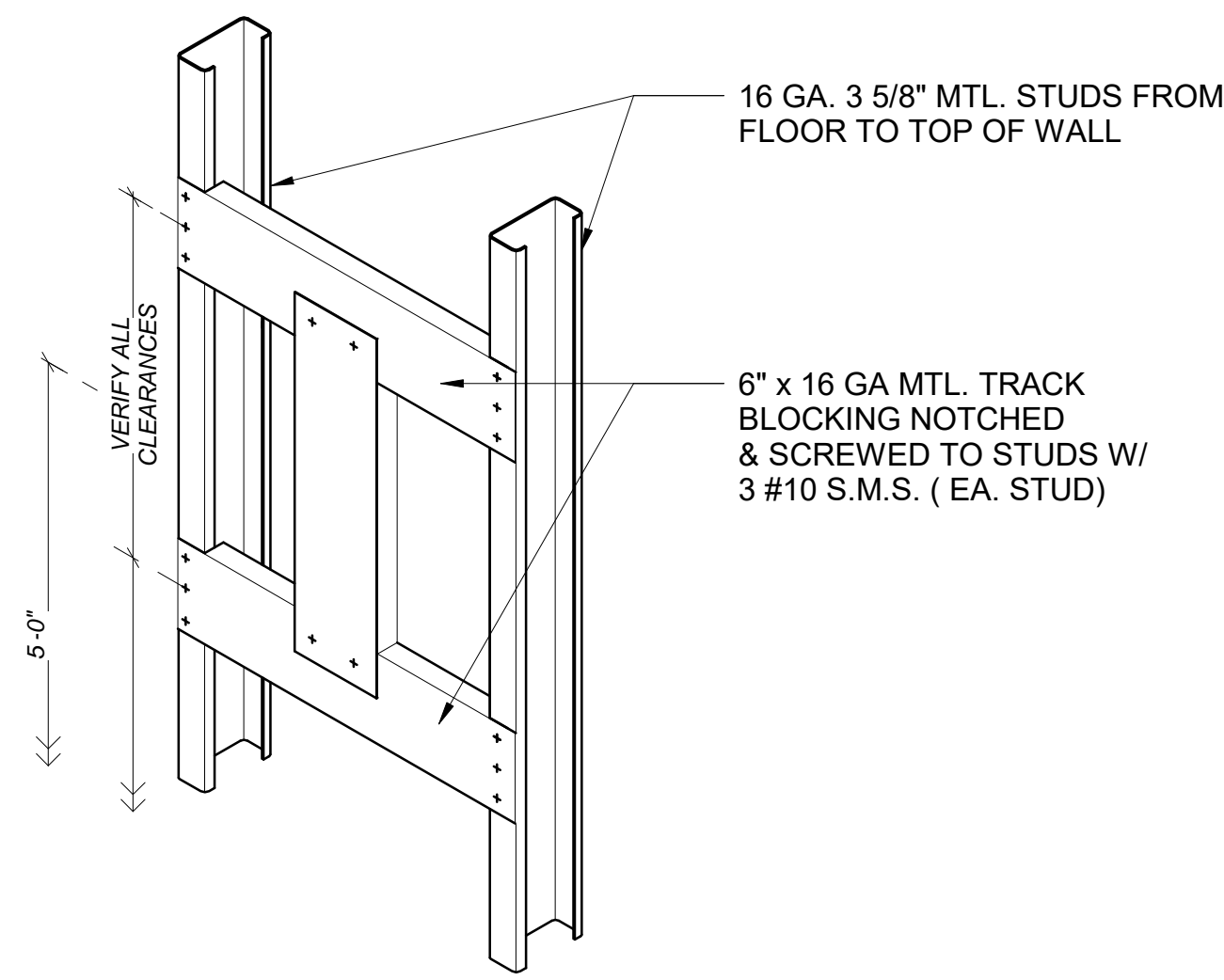
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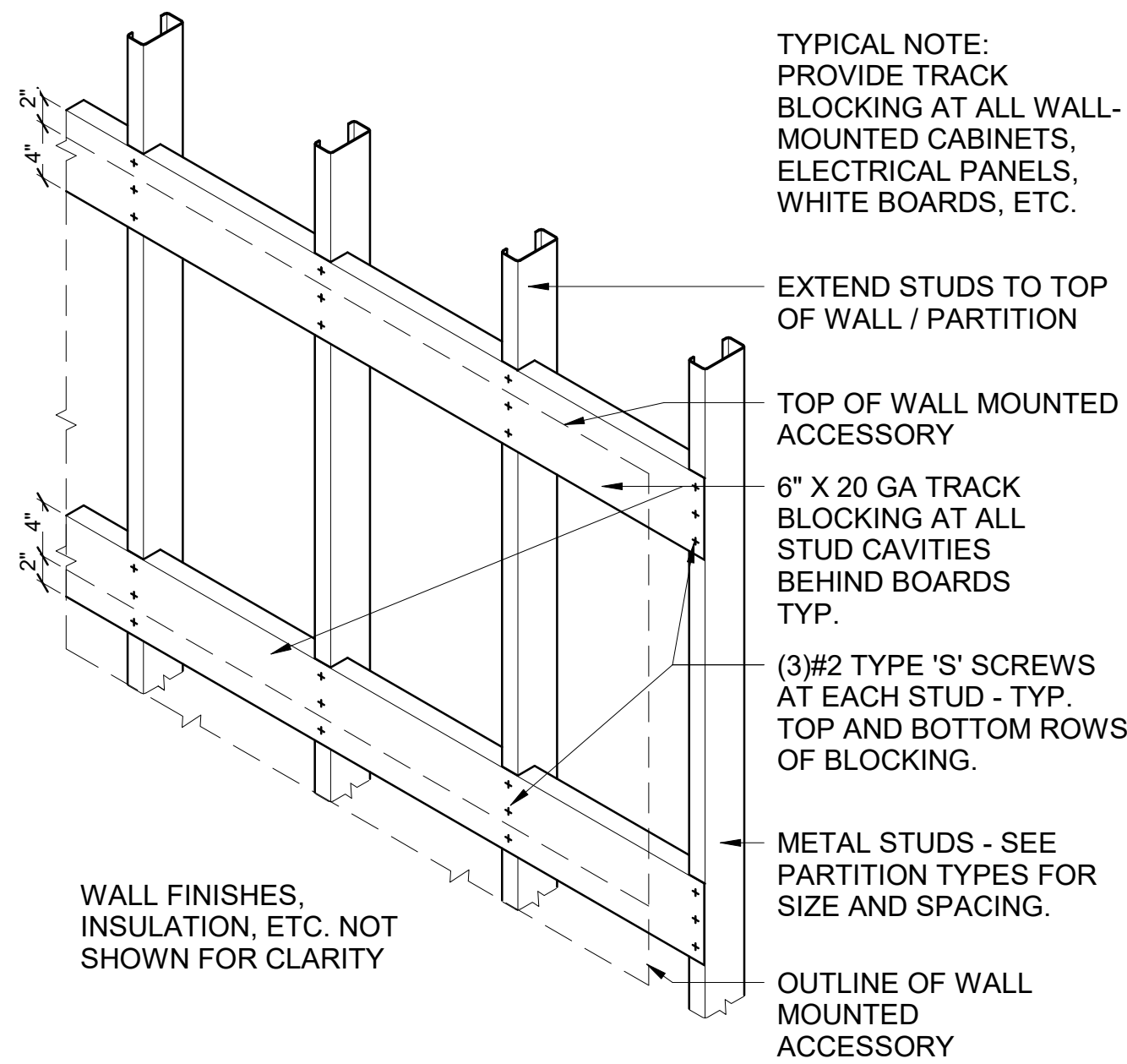
SHEET TITLE:  
**INTERIOR  
ELEVATIONS**

SHEET NUMBER:  
**A510**

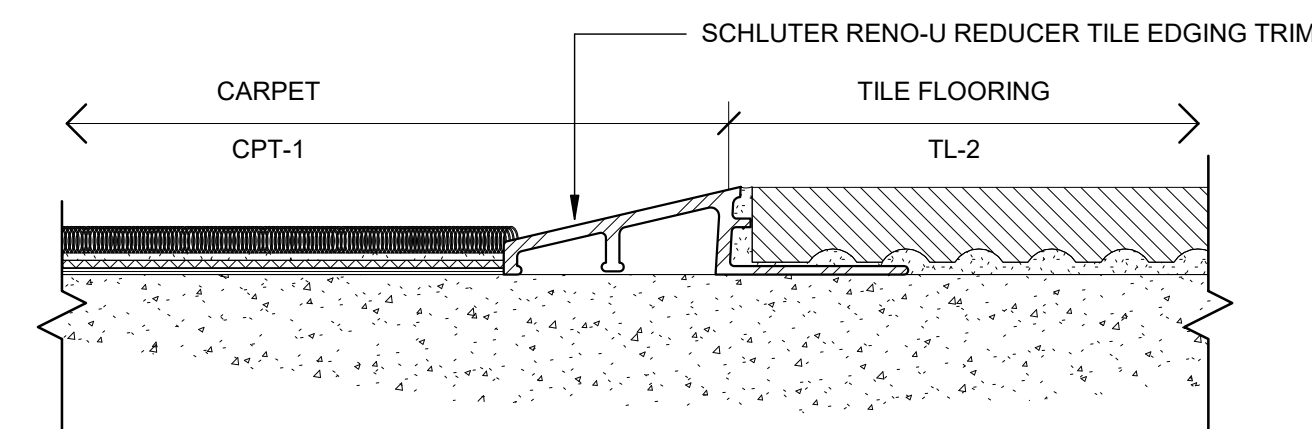
DRAWN BY: EBL	REVIEWED BY: MRD
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



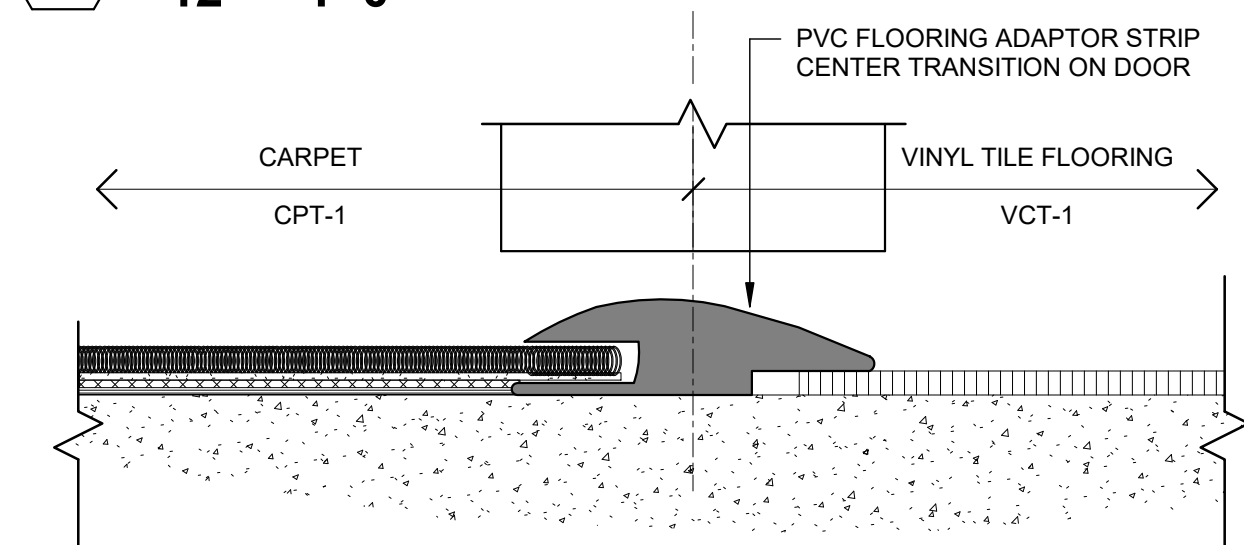
**12 TV BRACKET BLOCKING DETAIL**  
1 1/2" = 1'-0"



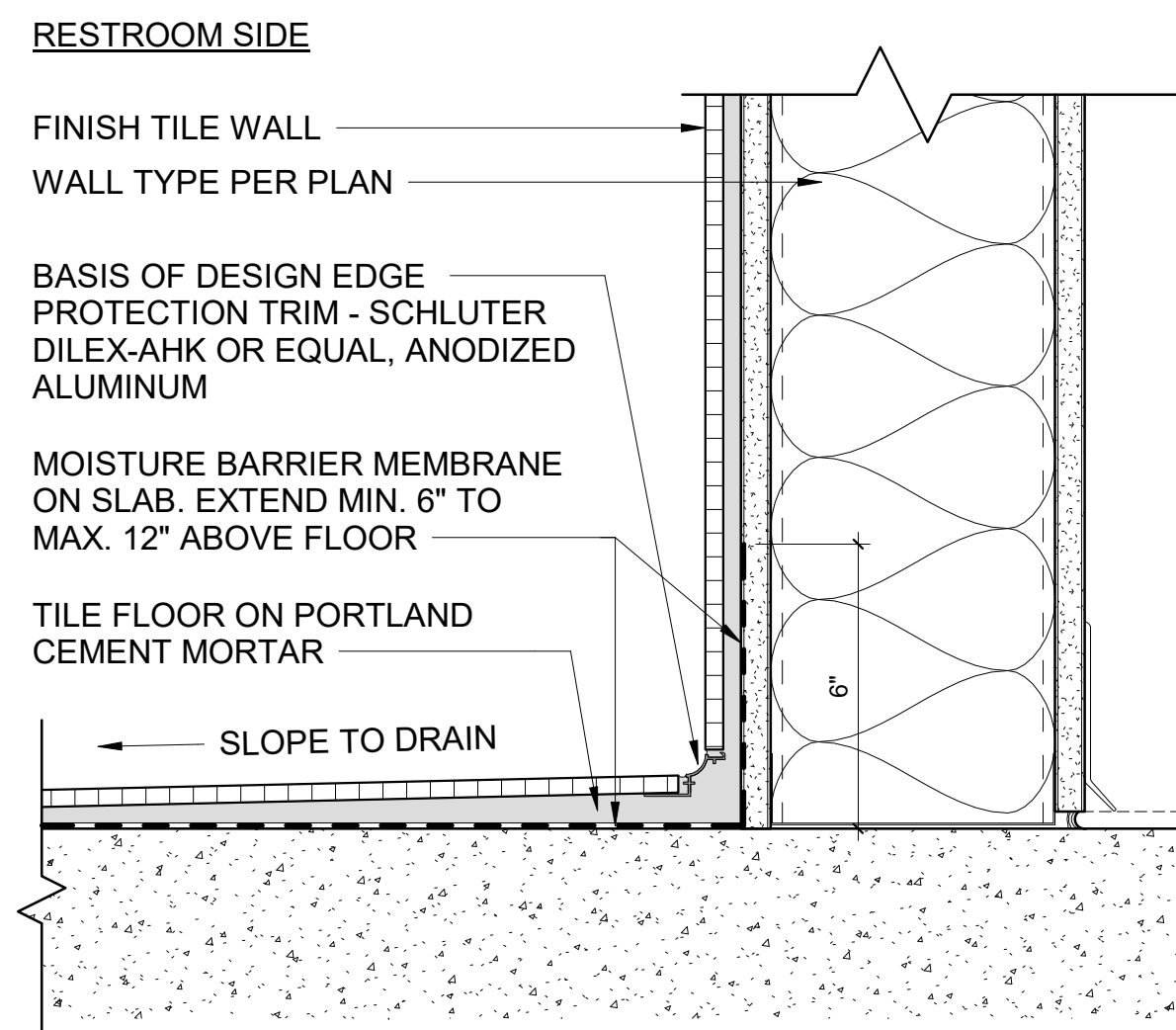
**13 TYPICAL TRACK BLOCKING**  
1 1/2" = 1'-0"



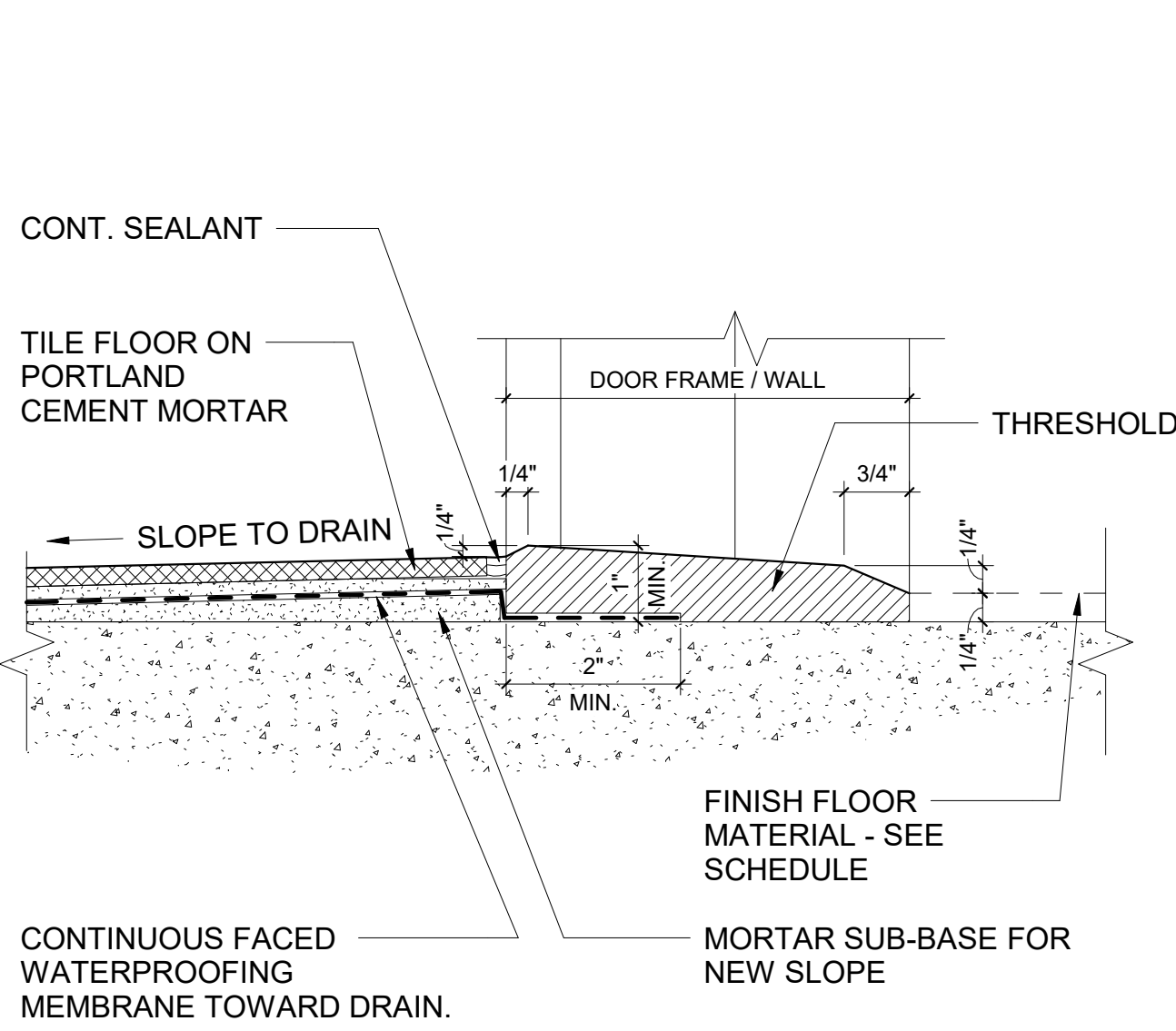
**14 CPT-1 / TL-2 TRANSITION**  
12" = 1'-0"



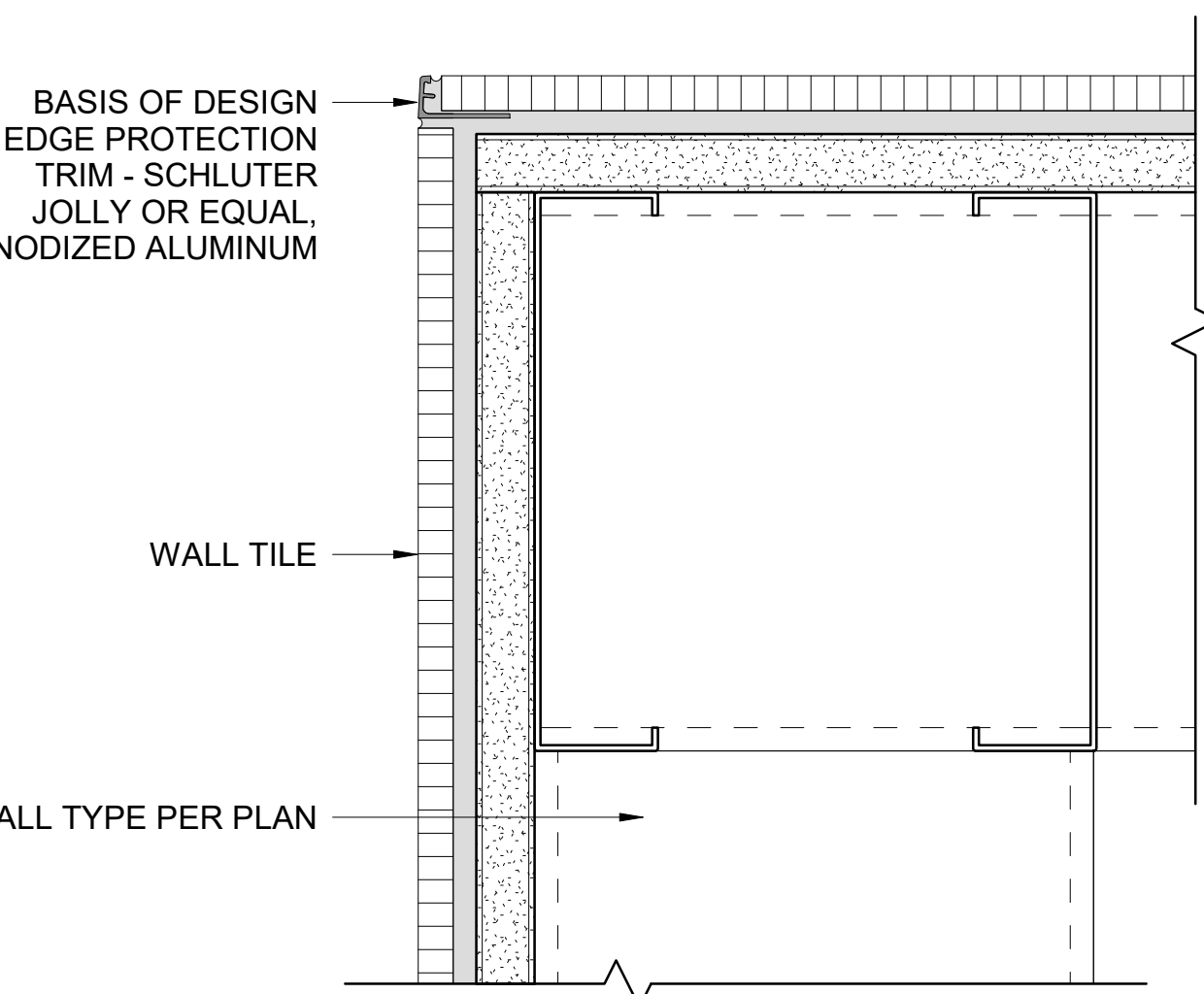
**15 CPT-1 / VCT-1 TRANSITION**  
12" = 1'-0"



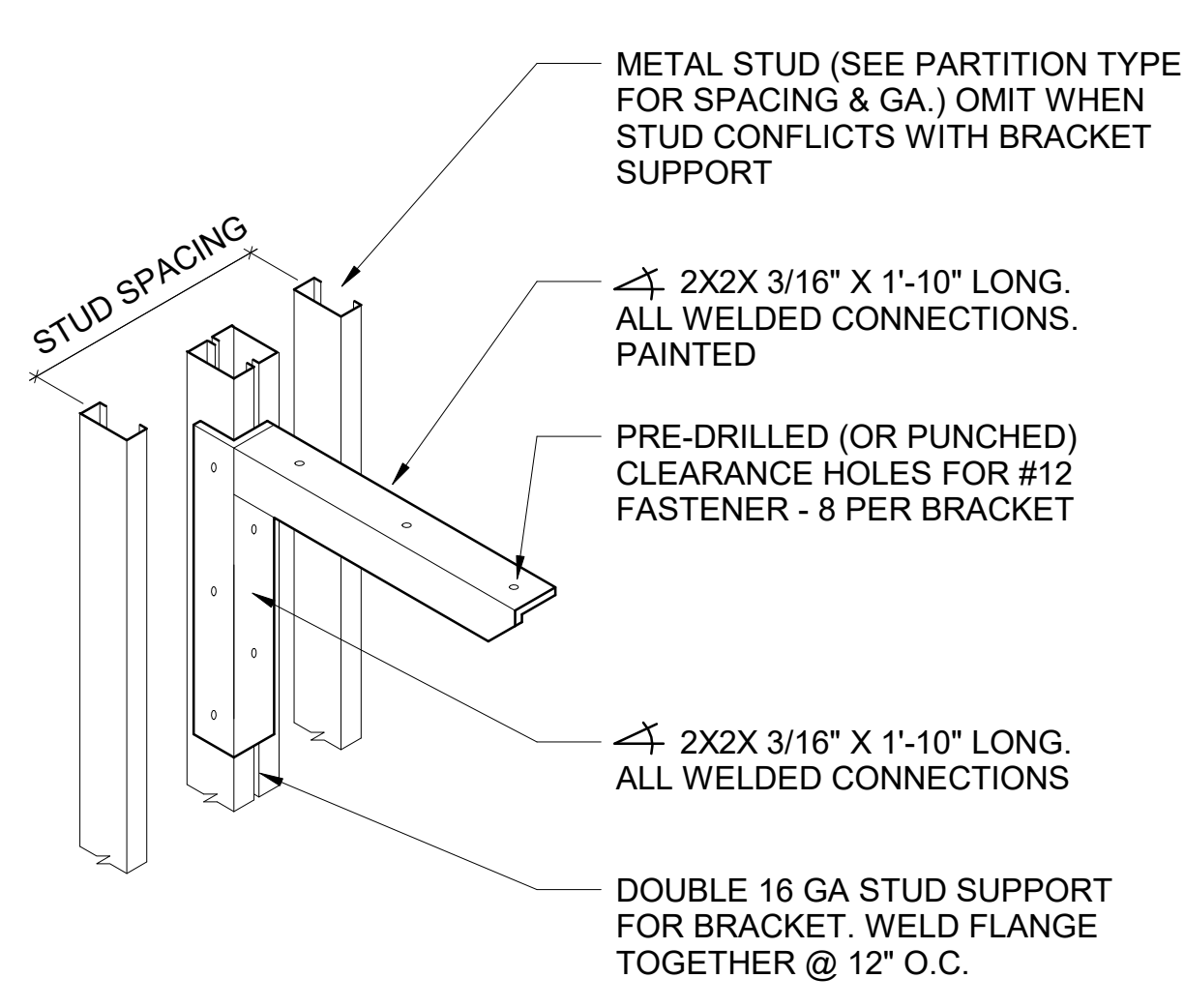
**9 BASE AT TILE FLOOR**  
3" = 1'-0"



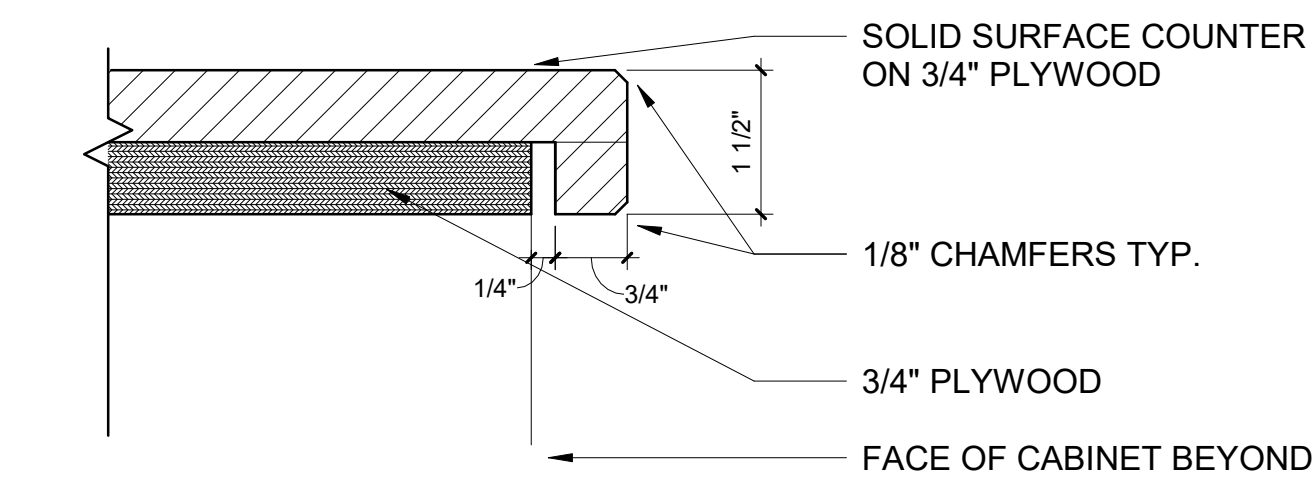
**10 TILE FLOOR THRESHOLD**  
6" = 1'-0"



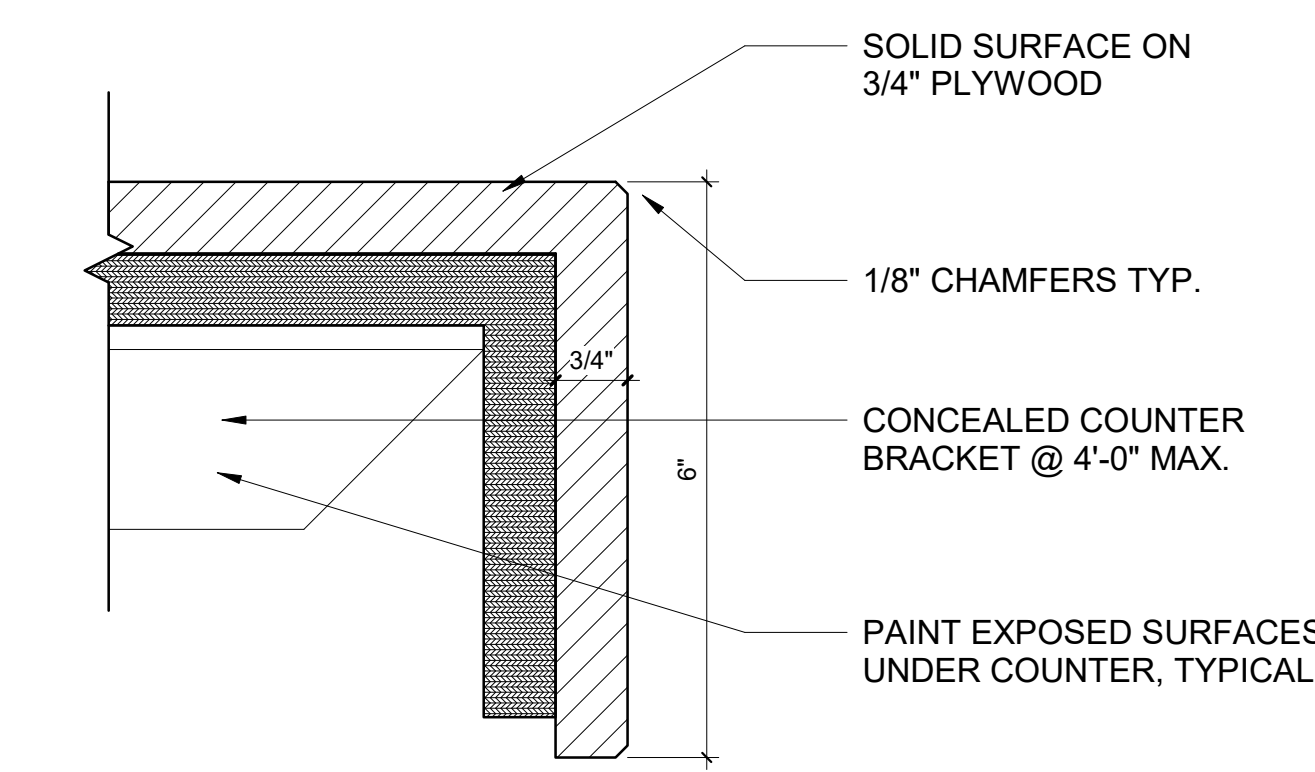
**11 TILE CORNER DETAIL**  
6" = 1'-0"



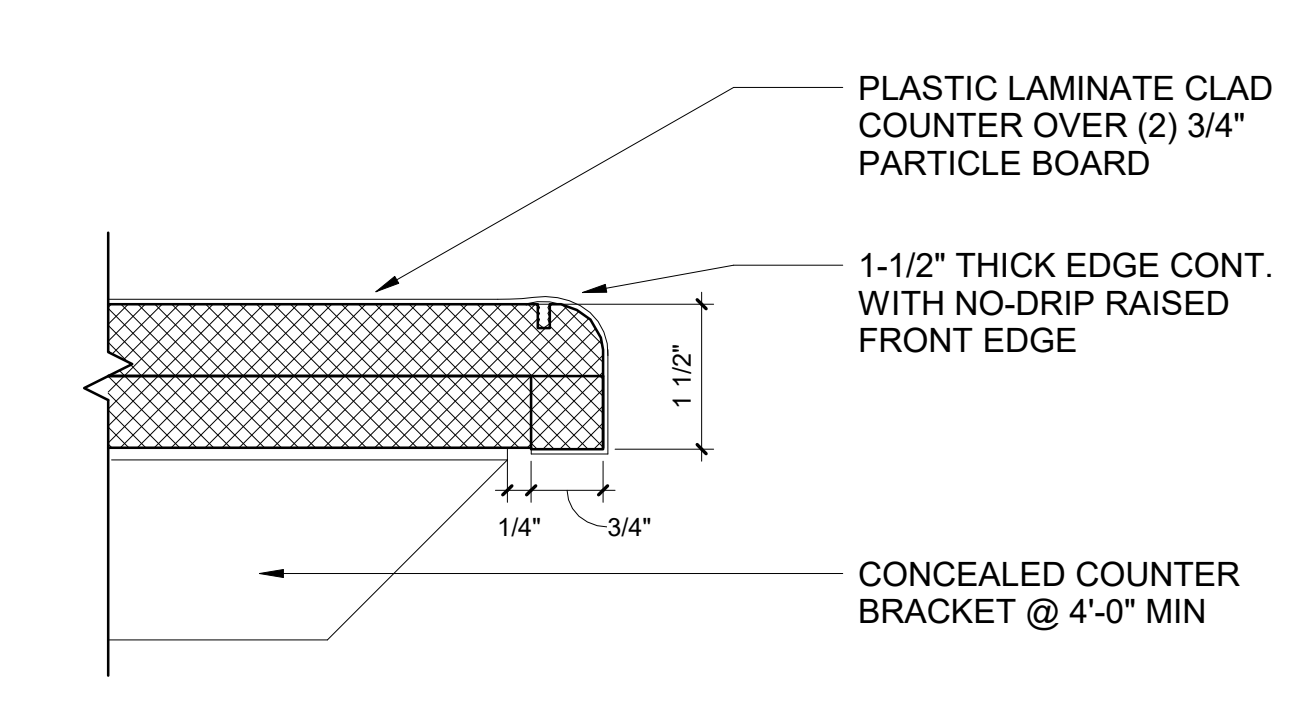
**5 COUNTER BRACKET**  
1" = 1'-0"



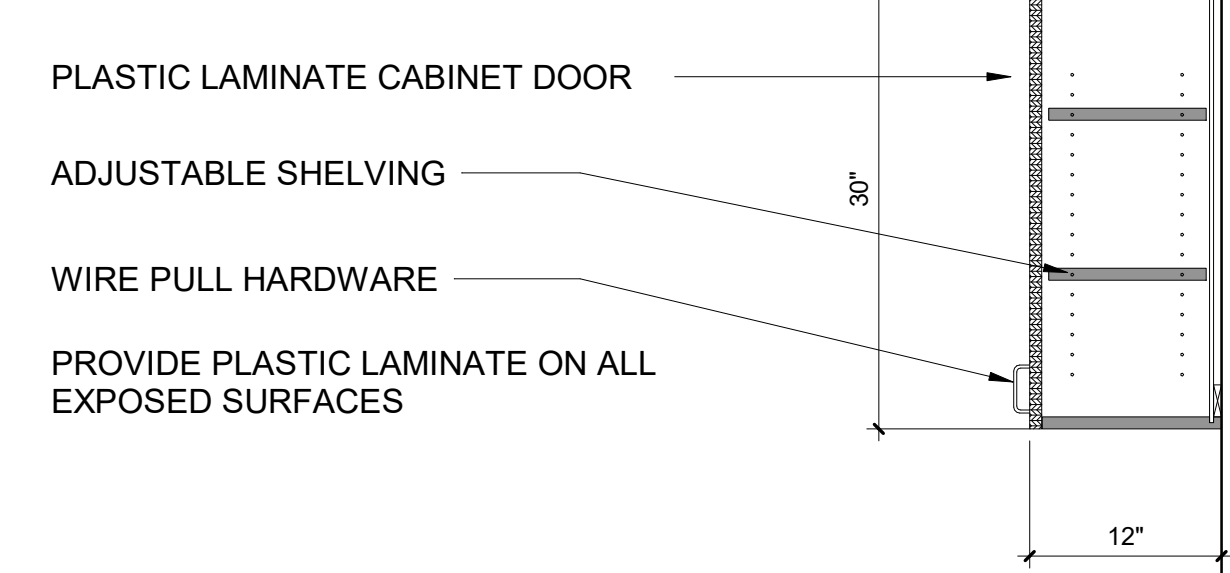
**6 COUNTERTOP EDGE DETAIL 1**  
6" = 1'-0"



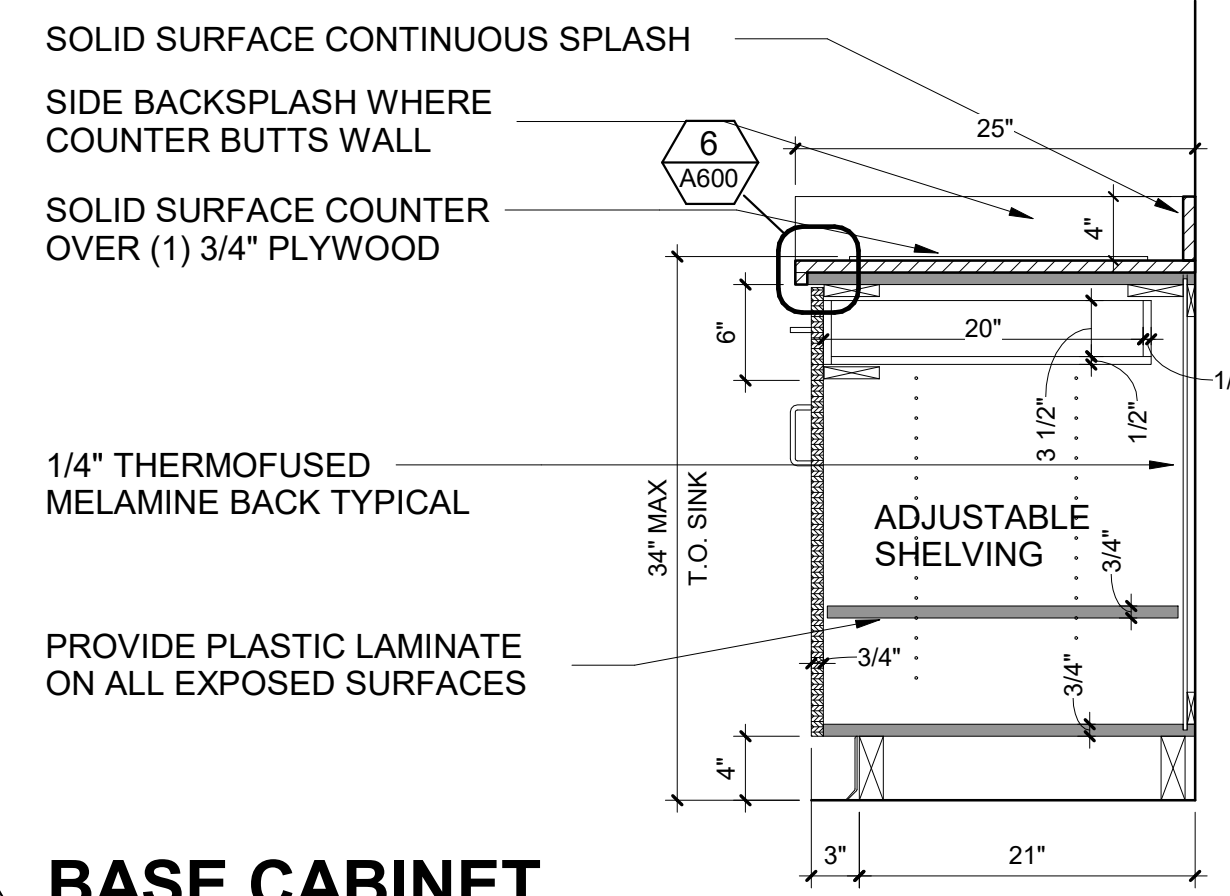
**7 COUNTERTOP EDGE DETAIL 2**  
6" = 1'-0"



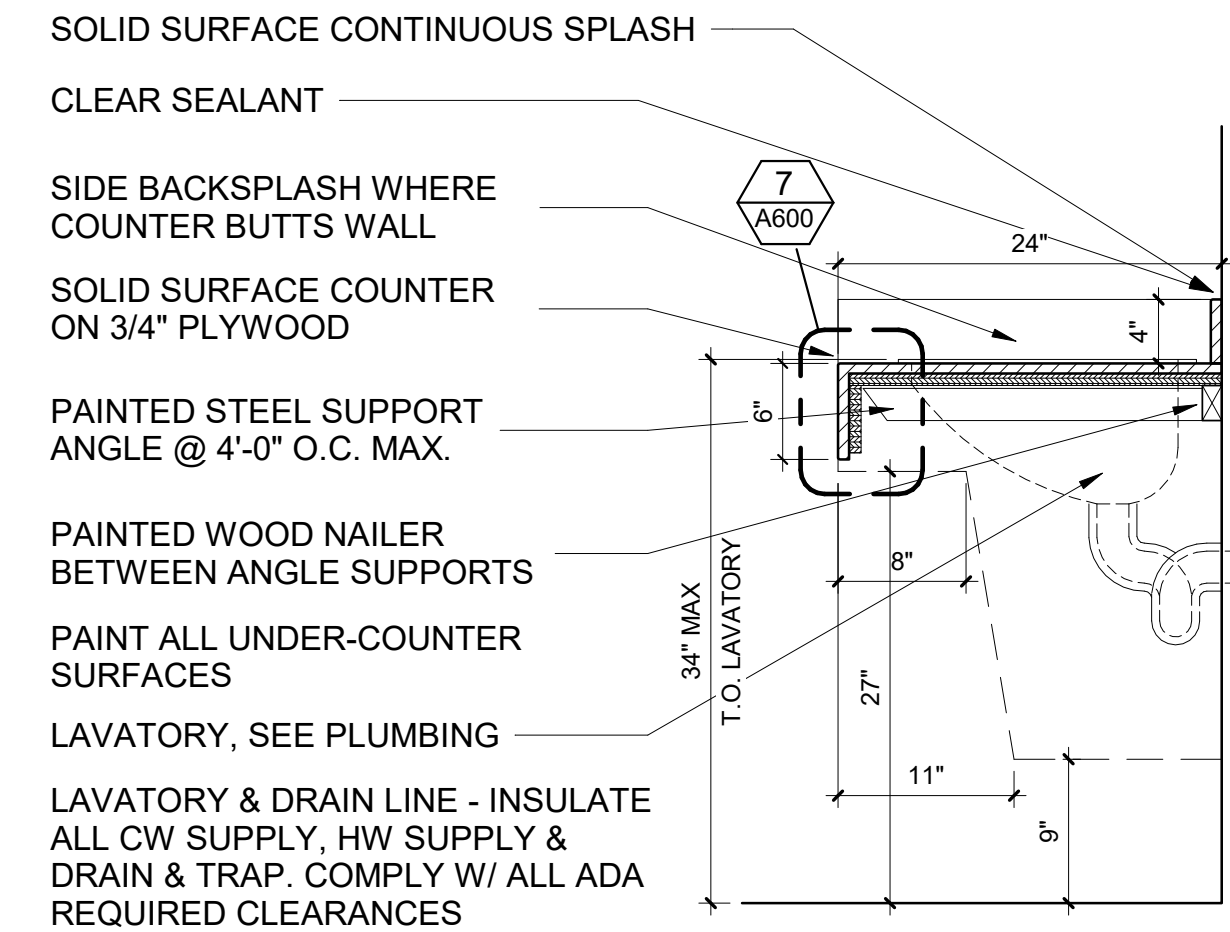
**8 COUNTERTOP EDGE DETAIL 3**  
6" = 1'-0"



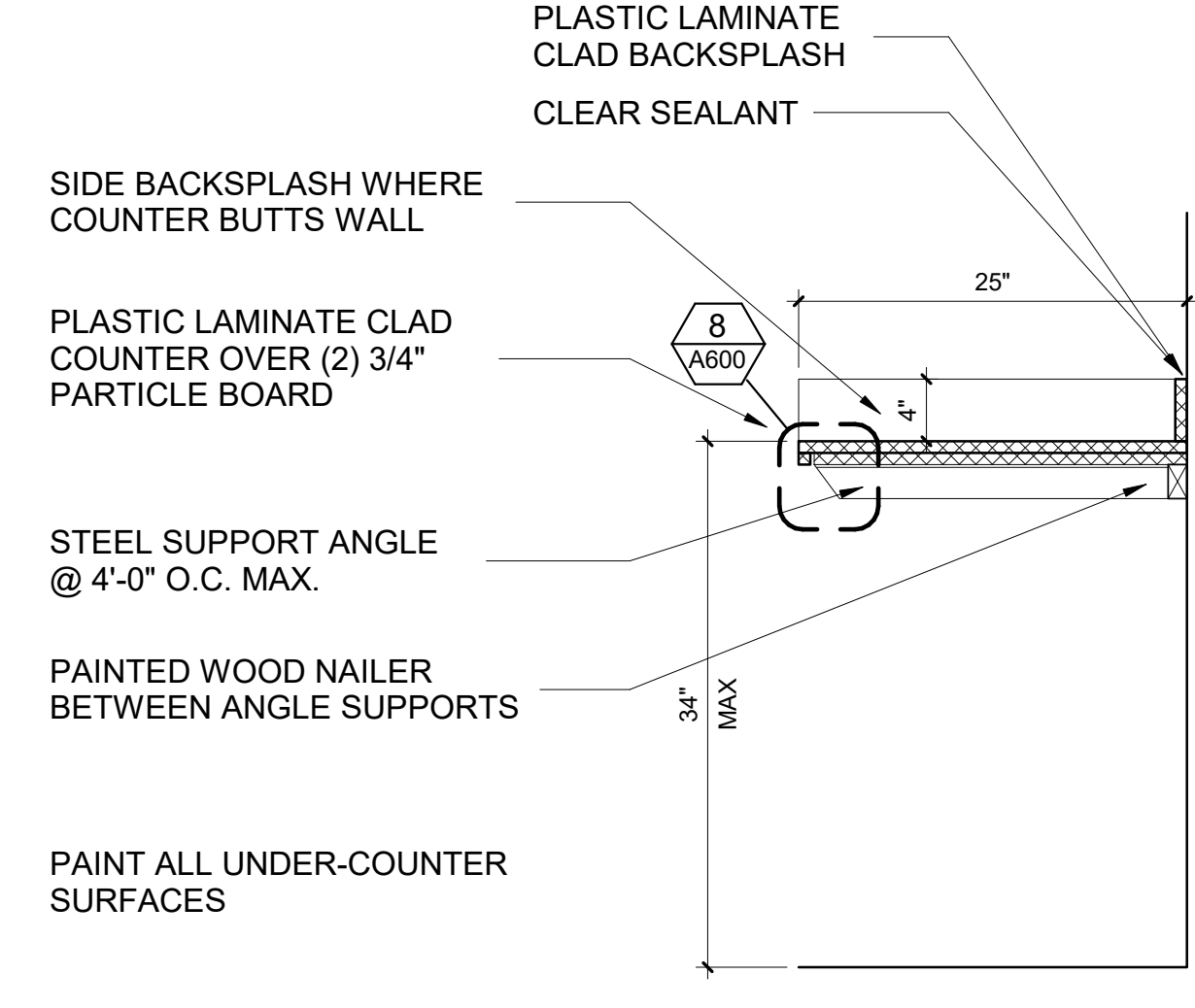
**1 WALL MOUNTED CABINET**  
1" = 1'-0"



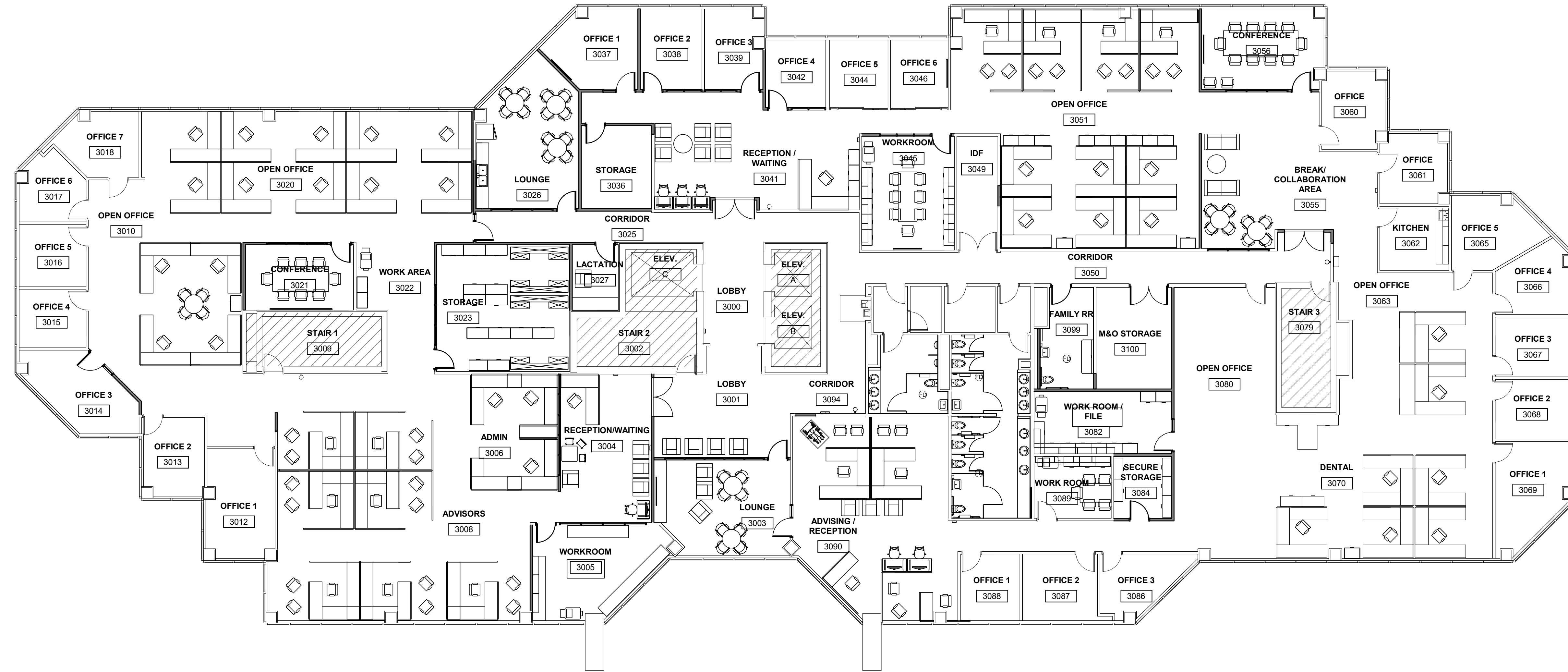
**2 BASE CABINET**  
1" = 1'-0"



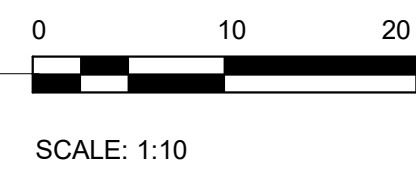
**3 RESTROOM COUNTERTOP**  
1" = 1'-0"



**4 LACTATION ROOM COUNTERTOP**  
1" = 1'-0"



**FURNITURE LAYOUT**  
1" = 10'-0"



**FURNITURE LAYOUT NOTES**

1. FURNITURE LAYOUT IS PROVIDED FOR REFERENCE AND COORDINATION ONLY. COORDINATE WITH OWNER FINAL FURNITURE LAYOUT AND SYSTEMS FURNITURE POWER CONNECTIONS

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281



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SHEET TITLE:  
**FURNITURE LAYOUT**

SHEET NUMBER:  
**A700**

DRAWN BY: EBL	REVIEWED BY: MRD
DATE: 02/08/2021	PROJECT NUMBER: 1831.00







FILE: J:\2020\201003 MCCD Rio Salado Tower 3rd Floor Remodel\M003.dwg

PLOTTED BY: Ryan.Eggink

PLOTTED: 02.05.2021 - 12:12pm

EQUIP. NO.	MANUF.	MODEL NO.	NOMINAL TON	CFM	MIN. OSA CFM	ESP. (IN WG)	FAN HP	COOLING CAPACITY				HEATING CAPACITY		GPM	WPD (FT. W.C.)	ELECTRICAL				AHRI EER	AHRI COP	OPER. WEIGHT (LBS)	REMARKS	
								TOTAL MBH	SENS. MBH	ENT. AIR DB	WB	ENT. WATER TEMP.	TOTAL MBH			ENT. AIR/WATER TEMP.	F.L.A.	MCA	MOCOP					VOLTS/PHASE
HP-12	CLIMATEMASTER	TCH024	2.0	800	8	0.60	1/2	23.8	18.8	80F	67F	90F	30.7	70F	6.0	10.7	6.8	7.7	15.0	460/3	14.3	4.9	200	1 2 3 4 5 6 7
HP-8,19	CLIMATEMASTER	TCH030	2.5	1000	8	0.60	1/2	28.8	23.6	80F	67F	90F	37.8	70F	7.5	6.0	7.4	8.5	15.0	460/3	14.3	4.8	210	1 2 3 4 5 6 7
HP-14	CLIMATEMASTER	TCH036	3.0	1200	8	0.50	3/4	33.9	30.3	80F	67F	90F	48.1	70F	9.0	7.9	10.5	11.9	15.0	460/3	14.0	4.5	230	1 2 3 4 5 6 7
HP-1,3,4,6,7,15,17,18	CLIMATEMASTER	TCH042	3.5	1400	8	0.50	3/4	41.1	33.9	80F	67F	90F	43.1	70F	10.5	12.0	10.7	12.2	15.0	460/3	14.9	4.5	240	1 2 3 4 5 6 7
HP-2,9,10,13	CLIMATEMASTER	TCH048	4.0	1600	8	0.60	1	48.1	38.4	80F	67F	90F	59.3	70F	12.0	11.1	12.2	13.8	20.0	460/3	14.2	4.8	290	1 2 3 4 5 6 7
HP-5,11,16	CLIMATEMASTER	TCH060	5.0	2000	8	0.50	1	58.2	47.3	80F	67F	90F	81.6	70F	14.0	19.3	13.8	15.8	20.0	460/3	14.8	4.4	340	1 2 3 4 5 6 7

1 COORDINATE WITH CONTROLS CONTRACTOR TO PROVIDE CONTROLLER AND ZONE SENSOR, AND INTERFACE WITH THE BUILDING'S ENERGY MANAGEMENT SYSTEM. SEE CONTROLS SCOPE OF WORK.

2 PROVIDE WITH HOSE KIT, 2-POSITION MOTOR-OPERATED VALVE AND MOUNTING KIT, SEE SPECS. SIZE HOSE KIT FOR MAXIMUM 10' PRESSURE DROP INCLUDING VALVES (SHOW IN SUBMITTAL). MINIMUM HOSE KIT SIZE IS 3/4" FOR UNITS 3 TON UNITS AND BELOW. 1" HOSE KIT FOR 3.5 AND 4 TON UNITS. 1.5" HOSE KIT FOR 5 TON UNITS. HOSE KITS TO BE PLENUM RATED.

3 PROVIDE WITH NEOPRENE ISOLATOR ON UNIT MOUNTING BRACKETS. PROVIDE ULTRA-QUIET PACKAGE.

4 PROVIDE DUCT DETECTOR IN RETURN AIR DUCT. FURNISHED BY FIRE ALARM CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. DETECTOR SHALL BE INTERLOCKED WITH FAN TO SHUT DOWN FAN WHEN SMOKE IS DETECTED IN RETURN DUCT.

5 PROVIDE WITH INTEGRAL CONDENSATE OVERFLOW SWITCH TO SHUT DOWN UNIT COMPRESSOR UPON WATER DETECTION. PROVIDE CONDENSATE PUMP ONLY WHERE ABSOLUTELY NECESSARY AND APPROVED BY BUILDING ENGINEER. FIELD VERIFY PRIOR TO BID AND CONFIRM ALL CONDENSATE DRAINS WILL MEET CORE AND SHELL PIPING RISERS

6 PROVIDE 1" AIR FILTER FRAME BASE MFG. WITH HINGED SWING DOOR FOR AIR TIGHT SEAL AT FILTER.

7 FAN SHALL INCLUDE AN ECM MOTOR RATED AT 265 VAC, COORDINATE WITH ELECTRICAL TO PROVIDE NEUTRAL WIRE TO EACH UNIT.

8 SEE OUTSIDE AIR SCHEDULE FOR QUANTITIES.

MARK	MANUF.	MODEL	BLOWER				CONDENSER WATER COIL										WEIGHT LBS	REMARKS	
			CFM	E.S.P.	HP	V/PH	SENS. MBH	TOT. MBH	GPM	EWT/LWT	EAT	LAT	MIN. ROWS	FINS/IN	PIPE DIA	AIR PD			H2O PD
OAF-1	GREENHECK	LFC-20-FC-15	1050	1.0	1 1/2	480/3	28.2	28.2	5.7	85/95	115	90.4	6	12	0.625	0.48	7.9	375	1 2 3
OAF-2	GREENHECK	LFC-25-FC-10	1300	1.0	1	480/3	34.5	34.5	6.9	85/95	115	90.7	6	12	0.625	0.47	10.7	425	1 2 3

1 BELT DRIVE UNIT WITH SPRING ISOLATORS AND 2" FILTER RACK WITH MERV 13 FILTERS. PROVIDE ALL NECESSARY BELTS AND SHEAVES TO BALANCE UNIT TO AIRFLOW SHOWN. DOUBLE WALL CONSTRUCTION. COORDINATE MOUNTING WITH FIELD CONDITIONS PRIOR TO ORDER. PREM EFF MOTOR.

2 FAN COIL UNIT SHALL BE CONTROLLED BY BMS. PROVIDE BACKDRAFT DAMPER ON SUPPLY DUCTWORK.

3 SMOKE DETECTORS SHALL BE INSTALLED DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN THE SYSTEM IN ACCORDANCE WITH 2018 IMC SECTION 606. SMOKE DETECTORS SHALL BE PROVIDED AND WIRED/COMMISSIONED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE																				
FAN COIL UNIT							CONDENSING UNIT													
EQUIP. NO.	SERVICE	MANUF.	MODEL NO.	CFM	EXT. S.P. IN WG	VOLTS/PHASE	EQUIP. NO.	MANUF.	MODEL NO.	VOLTS/PHASE	COOLING CAPACITY			MCA/MOCOP	SEER	WEIGHT LBS IN/OUT	MAX PIPE LENGTH/HEIGHT FT	REMARKS		
											ENT AIR DB	WB	AMBIENT TEMP							
AC-1	IDF ROOM	MITSUBISHI	PKA-A24KA	775	0	208/1	CU-1	MITSUBISHI	PUY-A24NHA	208/1	80	67	21.9	17.7	115F	18/30	17.0	50/165	225/100	1 2 3 4 5 6 7

1 CONDENSING UNIT TO BE LOCATED ON THE ROOF. INSTALL CONDENSING UNIT ON C-PORT "AIR-PORT" UTILITY PAD AND SECURE TO ROOF.

2 SIZE AND INSTALL REFRIGERANT LINES AS RECOMMENDED BY MANUFACTURER'S WRITTEN INSTRUCTIONS. INSULATE PIPING WITH 3/4" ARMAFLEX INSULATION. PROVIDE HEAVY GAUGE ALUMINUM JACKET ON ALL PIPING EXPOSED OUTDOORS.

3 PROVIDE WITH SINGLE POINT POWER CONNECTION, INTEGRAL STARTER. INDOOR UNIT IS POWERED FROM THE OUTDOOR UNIT. PROVIDE 14 AWG 3+GROUND WIRE BETWEEN INDOOR AND OUTDOOR UNITS. REFER TO ELECTRICAL PLANS FOR DISCONNECT.

4 PROVIDE CONDENSATE PUMP WIRED TO UNIT.

5 PROVIDE ELECTRONIC HARDWIRED THERMOSTAT AND 5 YEAR WARRANTY ON COMPRESSOR.

6 PROVIDE LOW AMBIENT COOLING OPERATION DOWN TO 23F.

7 PROVIDE WALL MOUNTED BMS TEMPERATURE SENSOR TIED TO BMS TO SEND ALARM UPON HIGH TEMP LIMIT.

GRILLES/REGISTERS/DIFFUSERS SCHEDULE											
MARK	DESCRIPTION	MODULE SIZE	TYPE	MAX. NO AT DESIGN CFM	OBD/ FACE DMPR	FRAME 1	MATERIAL	FINISH 2	MANUF.	MODEL	REMARKS
CD-1	SUPPLY DIFFUSER	24"x24"	SQUARE CONE	25	NO	LAY-IN	STEEL	WHITE	TITUS	TMS	1 2 4
CD-2	SUPPLY DIFFUSER	12"x12"	SQUARE CONE	25	YES	LAY-IN	STEEL	WHITE	TITUS	TMS	1 2 4
RG-1	RETURN GRILLE	24"x24"	PERFORATED	25	NO	LAY-IN	STEEL	WHITE	TITUS	PAR	1 2 3
EG-1	EXHAUST GRILLE	12"x12"	LOUVERED	25	YES	LAY-IN	STEEL	WHITE	TITUS	350RL	1 2

1 PROVIDE FRAME STYLE TO SUIT CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS. HARD LID CEILINGS REQUIRE AUXILIARY MOUNTED FRAMES AND STANDARD LAY-IN DIFFUSERS. PROVIDE FACE DAMPER ON GRILLES AND DIFFUSERS LOCATED IN HARD LID CEILINGS.

2 CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING.

3 PROVIDE WITH FULL SIZE SOUND BOOT BY MECHANICAL CONTRACTOR. REFER TO DETAIL.

4 RUNOUTS TO BE SAME SIZE OR LARGER THAN NECK SIZE. UNLESS NOTED OTHERWISE. REFER TO SUPPLY DIFFUSER NECK SCHEDULE.

CD-1,2 SUPPLY DIFFUSER SCHEDULE: 4  
 250 CFM AND BELOW 8" NECK  
 251 CFM- 400 CFM 10" NECK  
 401 CFM- 600 CFM 12" NECK  
 601 CFM- 800 CFM 14" NECK  
 801 CFM- 1000 CFM 15" NECK

USE SCHEDULE U.N.O ON DRAWINGS

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 Design Contact: RYAN EGGINK  
 Project # 201003

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
 Third Floor Remodel**  
 2323 W. 14th Street, Tempe, AZ 85281

RIO SALADO COLLEGE  
 A MARICOPA COMMUNITY COLLEGE

REVISIONS		
No.	Description	Date

## BIDDING SET

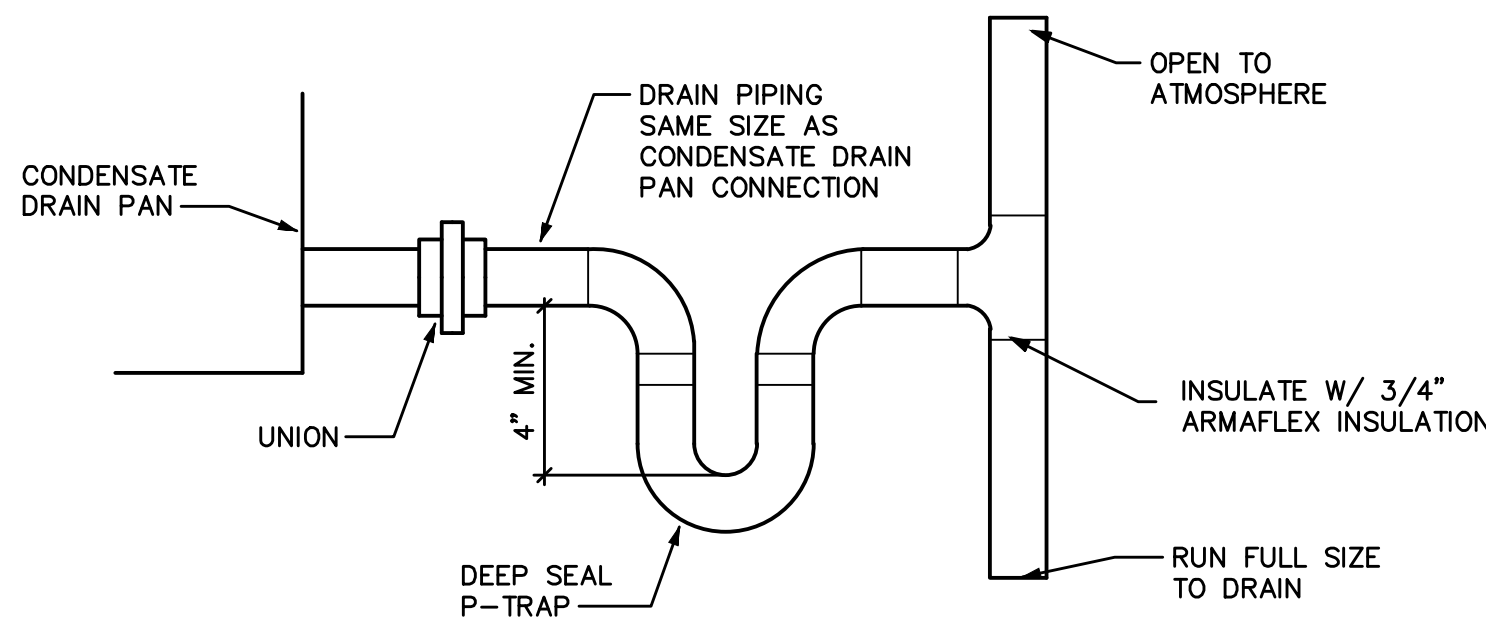
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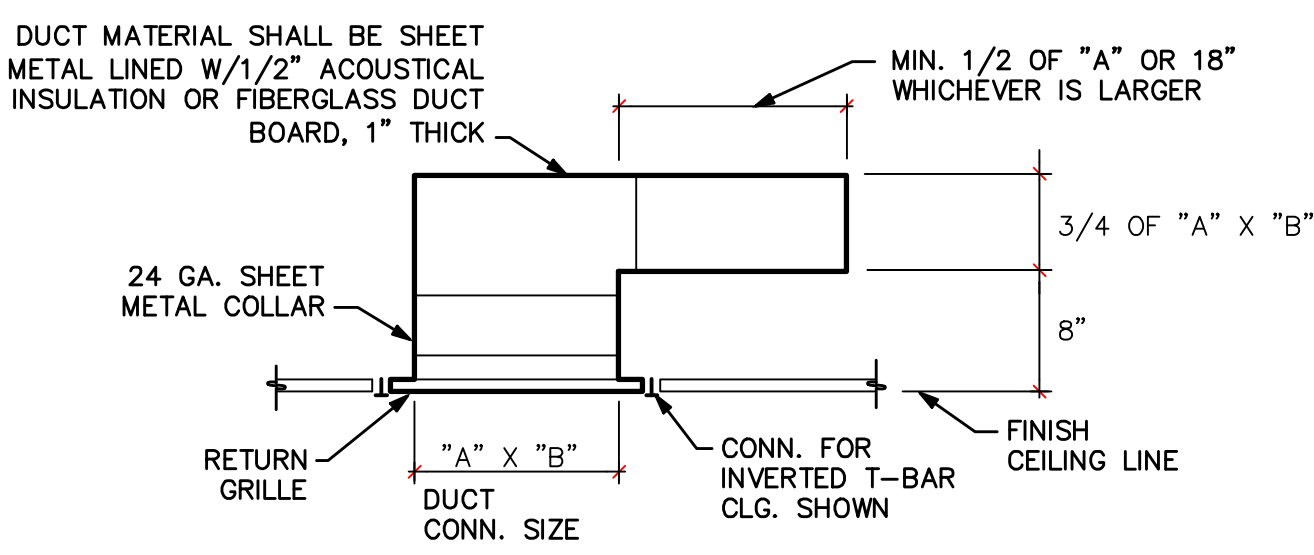
## MECHANICAL SCHEDULES

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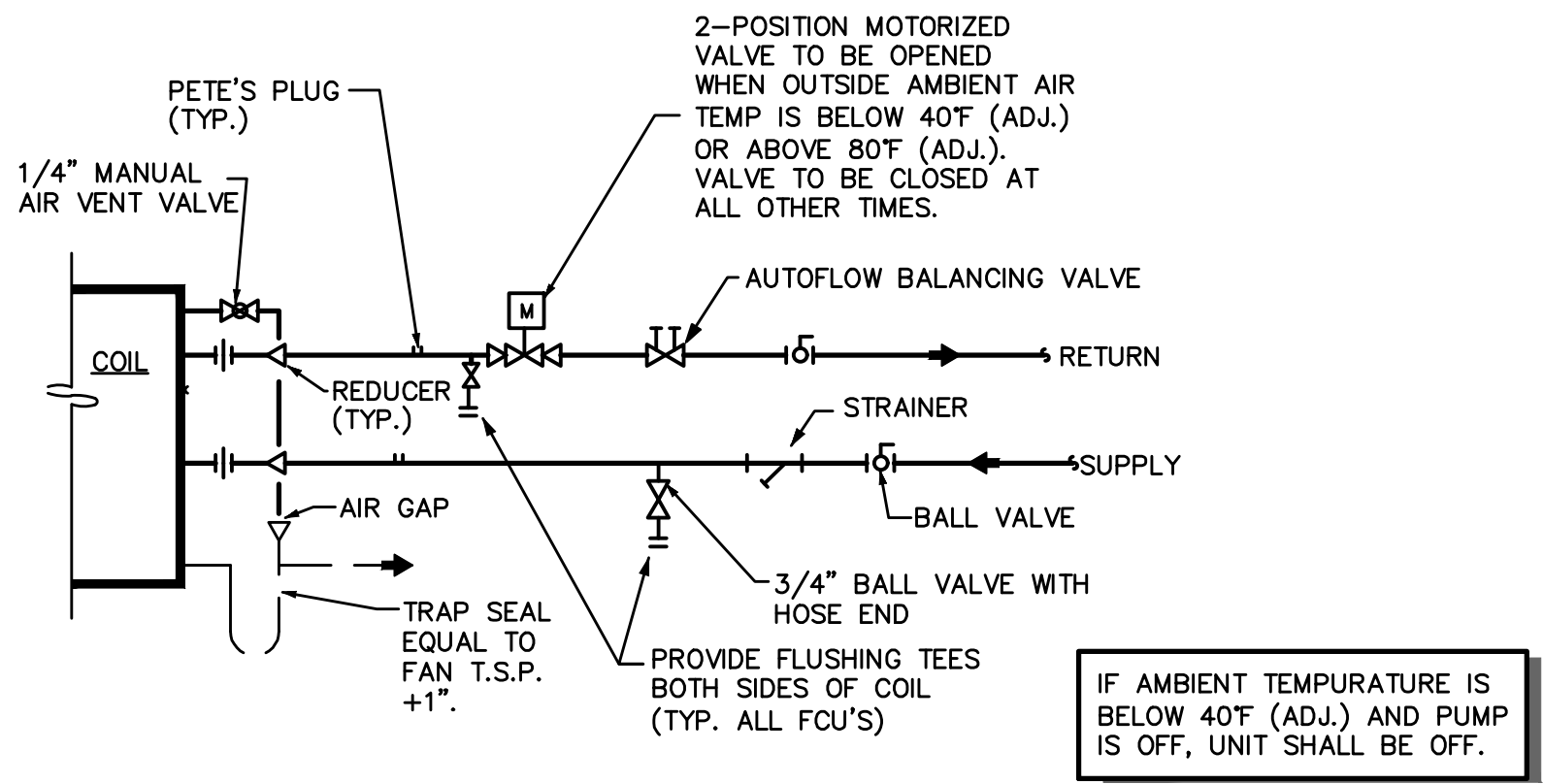
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DATE: 02/08/2021	PROJECT NUMBER: 1831.00



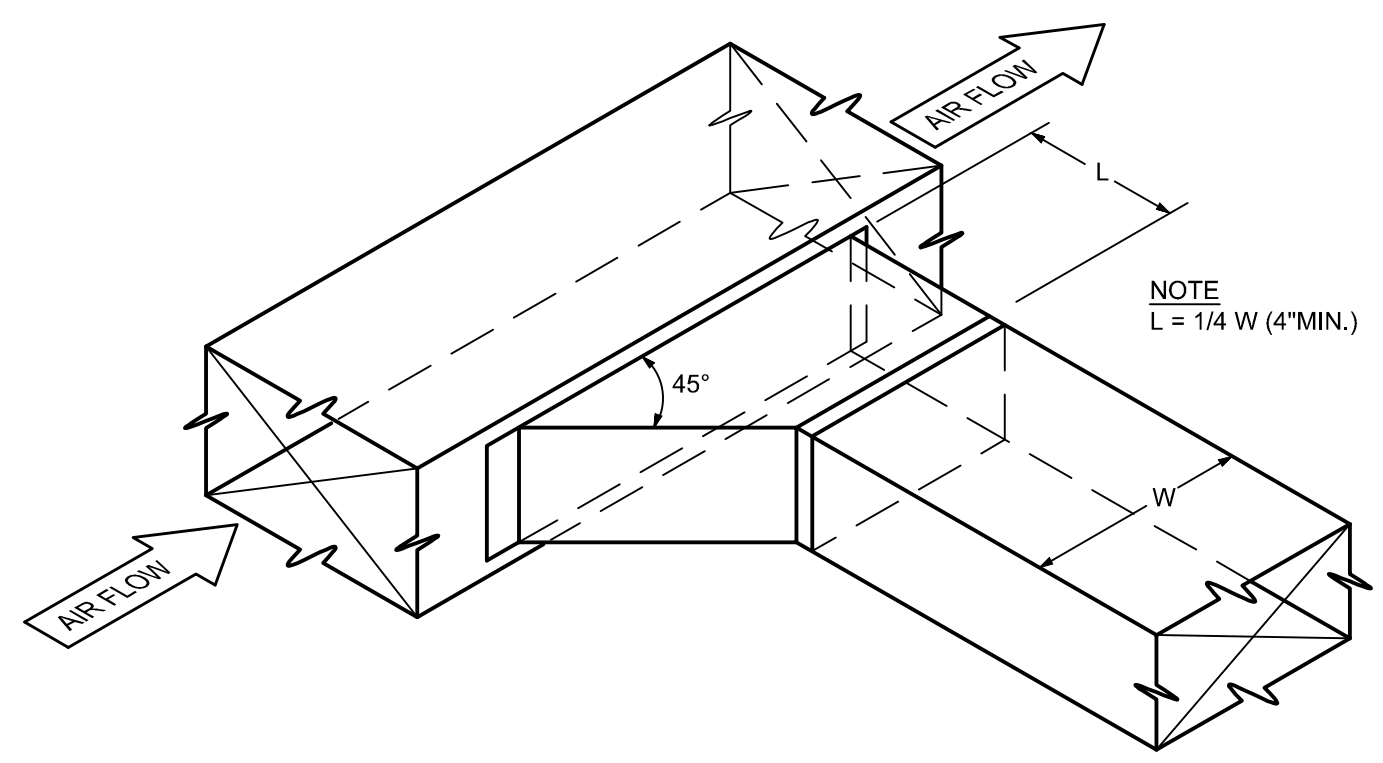
**CONDENSATE PIPING DETAIL** 6  
SCALE: NOT TO SCALE M004



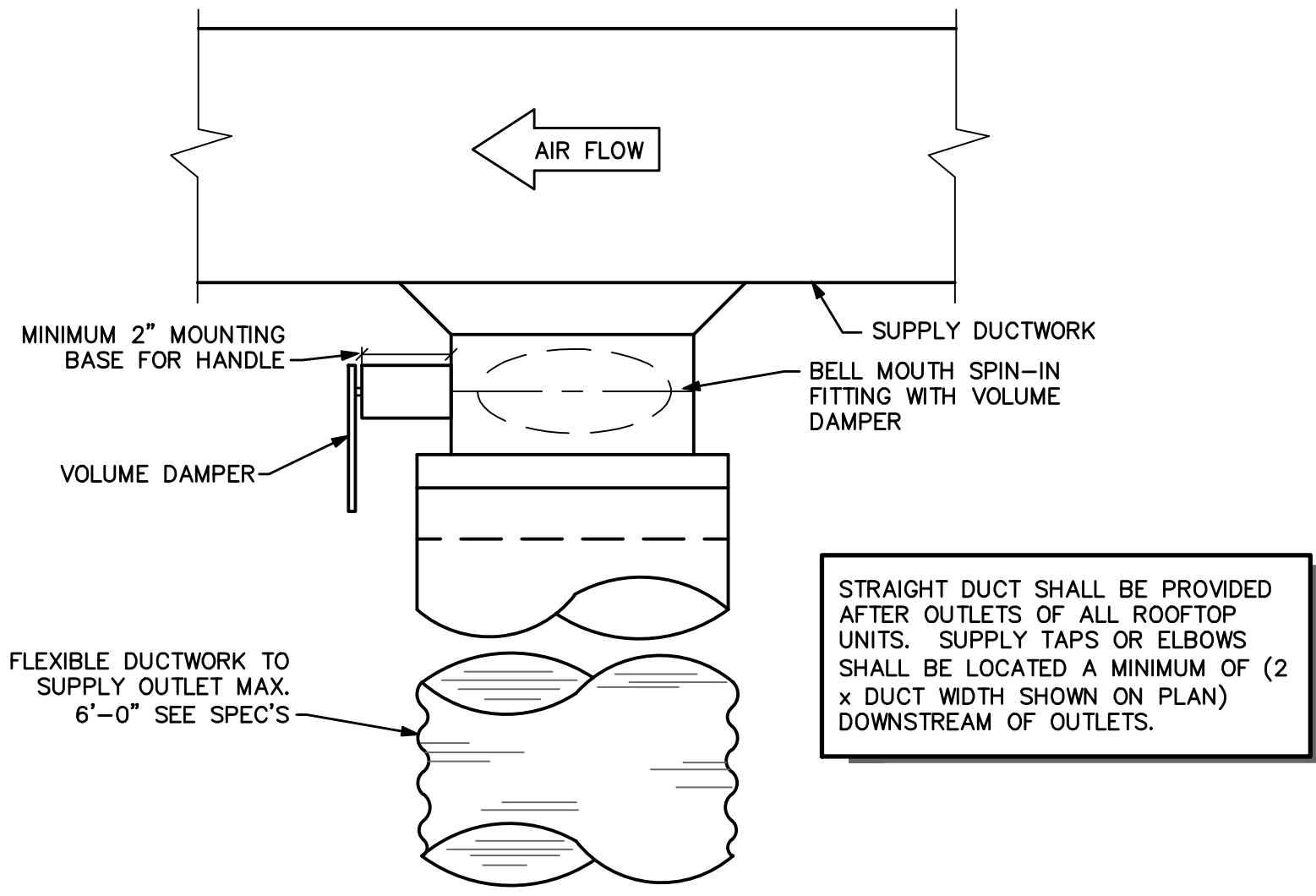
**RETURN AIR BOOT DETAIL** 5  
SCALE: NOT TO SCALE M004



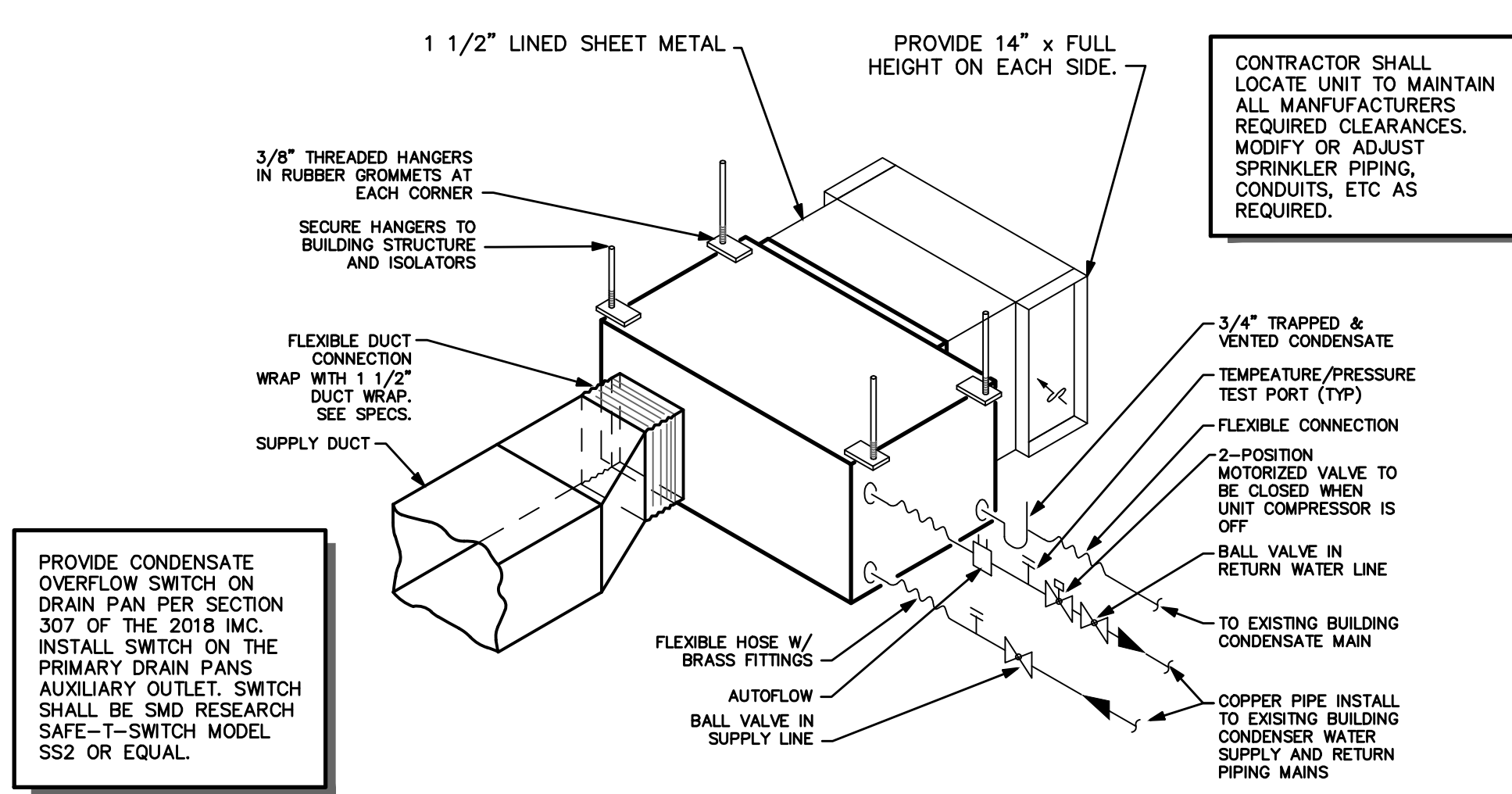
**CONDENSER WATER FAN COIL PIPING DETAIL** 4  
SCALE: NOT TO SCALE M004



**SUPPLY AIR DUCT CONNECTION DETAIL** 3  
SCALE: NOT TO SCALE M004



**BRANCH DUCT TAKE-OFF DETAIL** 2  
SCALE: NOT TO SCALE M004



**HEAT PUMP UNIT DETAIL** 1  
SCALE: NOT TO SCALE M004

REQUIRED OUTDOOR VENTILATION PER 2018 IMC 403.3										
UNIT MARK	OCCUPANCY CLASSIFICATION	ZONE FLOOR AREA (SQ.FT.) Az	DEFAULT OCCUPANCY (#/1000S.F.)	NUMBER OF OCCUPANTS Pz	OCCUPANT OUTDOOR AIR RATE Rp (CFM/PERSON)	AREA OUTDOOR AIR RATE Ra (CFM/SQ.FT.)	ZONE AIR DISTRIBUTION EFF. Ez	ZONE OUTDOOR AIRFLOW Vot (CFM)	OUTDOOR AIRFLOW REQUIRED (CFM)	OUTDOOR AIRFLOW PROVIDED (CFM)
HP-1	OFFICE	628	5	3	5	0.06	0.8	66	66	70
HP-2	OFFICE	1370	5	7	5	0.06	0.8	147	217	225
	CONFERENCE	181	50	9	5	0.06	0.8	70		
HP-3	OFFICE	584	5	3	5	0.06	0.8	63	63	70
HP-4	OFFICE	1305	5	7	5	0.06	0.8	142	142	150
HP-5	OFFICE	846	5	4	5	0.06	0.8	89	89	95
HP-6	STORAGE	434	-	-	-	0.12	0.8	65	230	240
	MAIN ENTRY LOBBY	496	10	5	5	0.06	0.8	69		
	RECEPTION AREA	360	30	11	5	0.06	0.8	96		
HP-7	OFFICE	604	5	3	5	0.06	0.8	64	70	70
HP-8	OFFICE	780	5	4	5	0.06	0.8	84	84	95
HP-9	OFFICE	780	5	4	5	0.06	0.8	84	84	95
HP-10	OFFICE	351	5	2	5	0.06	0.8	39	252	260
	CORRIDOR	307	-	-	-	0.06	0.8	23		
	STORAGE	150	-	-	-	0.12	0.8	23		
	RECEPTION AREA	638	30	19	5	0.06	0.8	167		
HP-11	OFFICE	830	5	4	5	0.06	0.8	88	88	95
HP-12	CONFERENCE	250	50	13	5	0.06	0.8	100	100	110
HP-13	OFFICE	1456	5	8	5	0.06	0.8	160	160	170
HP-14	OFFICE	394	5	2	5	0.06	0.8	42	42	50
HP-15	OFFICE	558	5	3	5	0.06	0.8	61	61	70
HP-16	OFFICE	343	5	2	5	0.06	0.8	39	129	140
	CORRIDOR	608	-	-	-	0.06	0.8	46		
	STORAGE	289	-	-	-	0.12	0.8	44		
HP-17	OFFICE	1380	5	7	5	0.06	0.8	148	148	155
HP-18	OFFICE	834	5	4	5	0.06	0.8	88	88	95
HP-19	OFFICE	356	5	2	5	0.06	0.8	40	40	50

BALANCE OUTSIDE AIR TO EACH UNIT TO AIRFLOWS SHOWN IN "PROVIDED" COLUMN.

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Design Contact:  
**RYAN EGGINK**  
Project #  
201003

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281

RIO SALADO COLLEGE  
A MARICOPA COMMUNITY COLLEGE

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KEY:

SHEET TITLE:  
**MECHANICAL SCHEDULES AND DETAILS**

SHEET NUMBER:  
**M004**

DRAWN BY: RDE  
DATE: 02/08/2021

REVIEWED BY: GMS  
PROJECT NUMBER: 1831.00



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KEY:

SHEET TITLE:  
**MECHANICAL CONTROLS**

SHEET NUMBER:  
**M005**

DRAWN BY: RDE	REVIEWED BY: GMS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00

CONTROLS SCOPE OF WORK:

THE CONTROLS CONTRACTOR SHALL UPGRADE THE EXISTING CONTROLS SYSTEM CONSISTING OF A HIGH-SPEED, PEER-TO-PEER NETWORK OF DDC CONTROLLERS AND A WEB-BASED OPERATOR INTERFACE. THE EXISTING NAE SHALL INTEGRATE WITH EXISTING ADX WEB SERVER GATHERING DATA FROM THIS SYSTEM AND GENERATE WEB PAGES ACCESSIBLE THROUGH A CONVENTIONAL WEB BROWSER ON EACH PC CONNECTED TO THE NETWORK. OPERATORS SHALL BE ABLE TO PERFORM ALL NORMAL OPERATOR FUNCTIONS THROUGH THE WEB BROWSER INTERFACE.

THE SYSTEM SHALL DIRECTLY CONTROL HVAC EQUIPMENT AS SPECIFIED IN THE SEQUENCE OF OPERATIONS FOR HVAC CONTROLS INCLUDED IN THESE DOCUMENTS.

PROVIDE NEW CONTROLLER FOR EACH HEAT PUMP AND FAN COIL. EACH ZONE CONTROLLER SHALL PROVIDE OCCUPIED AND UNOCCUPIED MODES OF OPERATION BY INDIVIDUAL ZONE. NEW CONTROLLERS ARE TO BE REPROGRAMMED TO ACCOMPLISH THE SEQUENCE AND POINTS LISTS INCLUDED IN THESE DOCUMENTS. INCLUDE ANY GRAPHICS UPDATES TO REPRESENT FLOOR PLAN CHANGES AND EQUIPMENT PROVIDED.

A LINE ITEM PRICE SHALL BE INCLUDED FOR REPLACEMENT OF EXISTING N2 CONTROLLERS TO NEW BACNET MS/TP\_N2 COMPATIBLE. NEW CONTROLLERS SHALL DO BOTH MSTP OR N2 COMMUNICATIONS.

NEW TEMPERATURE SENSORS SHALL BE MCCCD STANDARD DEVICES THROUGHOUT THE BUILDING.

PROVIDE NEW FIELD DEVICES, SENSORS, ENGINEERING AND COMMISSIONING SERVICES AT THE NEW HEAT PUMP UNITS AS INDICATED TO ACCOMPLISH SEQUENCE AND POINTS LISTS AS OUTLINED IN THESE DOCUMENTS.

MODIFICATIONS TO EXISTING CONTROLS AT FLUID COOLER, PUMPS, ETC. ARE NOT IN THE SCOPE. MODIFICATION TO THE EXISTING CONTROLS ON THE OTHER FLOORS IS ALSO NOT INCLUDED IN THIS SCOPE.

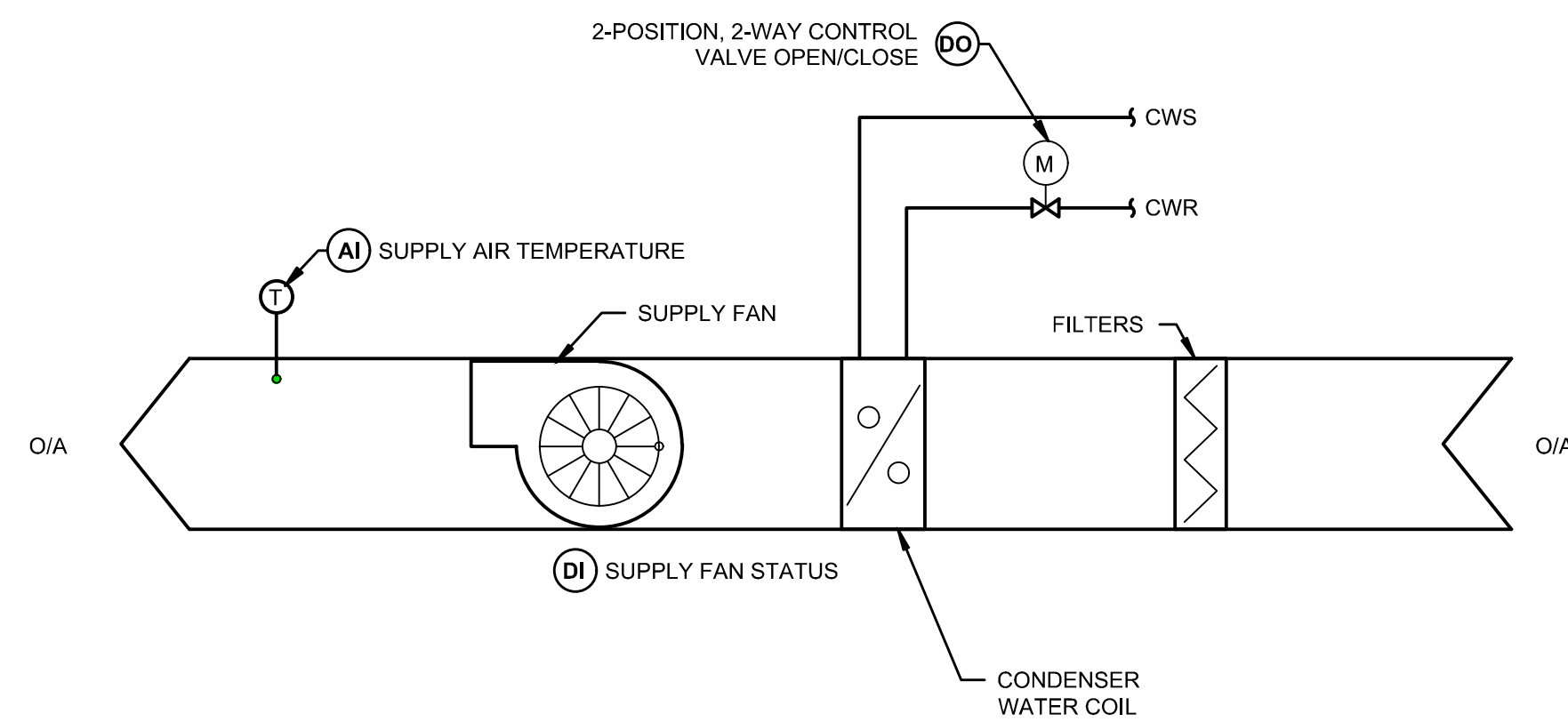
1. ALL EXISTING CONTROLS OUTSIDE THIS PROJECT SCOPE SHALL REMAIN OPERATIONAL AS IS (N2). ALL NEW CONTROLS SHALL BE N2 COMMUNICATIONS.
2. IN THE BASE SCOPE, THE EXISTING HEAT PUMP CONTROLLERS ARE TO BE REMOVED AND TURNED OVER TO THE CAMPUS. A NEW CGM SHALL BE PROVIDED AT EACH OF THE NEW HEAT PUMP UNITS AND FAN COIL UNITS. THE NEW HEAT PUMP UNITS AND FCU'S SHALL HAVE ALL OF THE ASSOCIATED ANCILLARY POINTS TERMINATED TO NEW CGM'S AND ASSOCIATED IOM'S AT EACH UNIT. ALL NEW CONTROLLERS SHALL BE SETUP TO COMMUNICATE N2 TO EXISTING BUILDING NAE.
3. ALL NEW SPACE TEMPERATURE SENSORS SHALL BE SA BUS DEVICES, TERMINATED TO THE ASSOCIATED CGM AND/OR ONE OF THE ASSOCIATED IOM'S.
4. JCI SHALL RFI ANY AND ALL CONFLICTS, MISUNDERSTANDINGS OR CLARIFICATIONS THEY IDENTIFY, FOR INCLUSION IN THIS SCOPE PRIOR TO FINAL PROPOSAL.

SEQUENCE OF OPERATIONS

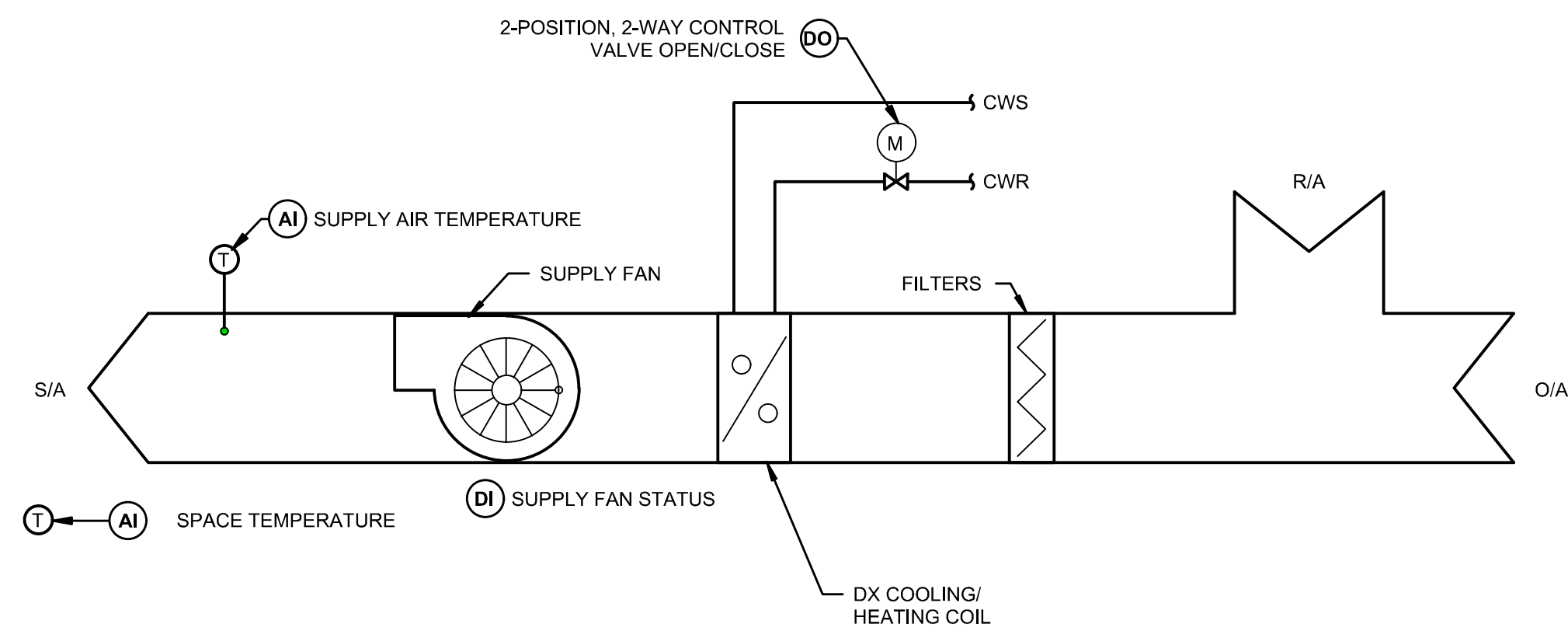
1. OPERATION: OPERATE HEAT PUMPS FROM THE BUILDING AUTOMATION SYSTEM TIME PROGRAM DURING OCCUPIED HOURS. PROGRAMMED START/STOP CONTROL SHALL HAVE ADJUSTABLE ADVANCED START SETPOINT/TIME. PROGRAMMED START/STOP BY INDIVIDUAL HEAT PUMP.
2. OCCUPIED MODE: SET POINT 75°F (ADJ.) FOR COOLING AND 70°F (ADJ.) FOR HEATING. CONTROLS SHALL PROVIDE AUTOMATIC CHANGEOVER BETWEEN HEATING AND COOLING MODES, WITH A MINIMUM 5°F DEADBAND. DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE CONTROL VALVE SHALL OPEN AND THE DX COOLING/HEATING SHALL STAGE TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINT.
3. UNOCCUPIED MODE: SETBACK SET POINT 85°F (ADJ.) FOR COOLING AND 63°F (ADJ.) FOR HEATING. SETBACK SET POINT FOR COOLING SHALL NOT EXCEED 85°F AND SETBACK SET POINT FOR HEATING SHALL NOT FALL BELOW 55°F. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS. AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH UNIT AND SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE UNIT IN ORDER TO BRING THE SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO OCCUPANCY. DURING UNOCCUPIED PERIODS, THE SUPPLY FAN SHALL CYCLE ON/OFF AS REQUIRED. THE DX COOLING/HEATING SHALL STAGE TO MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE SETPOINT, WITH THE CONTROL VALVE OPENING WHEN THE COMPRESSOR IS ENERGIZED.
4. SMOKE DETECTOR SHUTDOWN: THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT. SMOKE DETECTOR SHALL BE INTERLOCKED WITH BUILDING FIRE ALARM SYSTEM.
5. POINTS LIST:  
A. SUPPLY AIR TEMPERATURE  
B. SUPPLY FAN STATUS  
C. CONTROL VALVE OPEN/CLOSE  
D. SPACE TEMPERATURE

SEQUENCE OF OPERATIONS

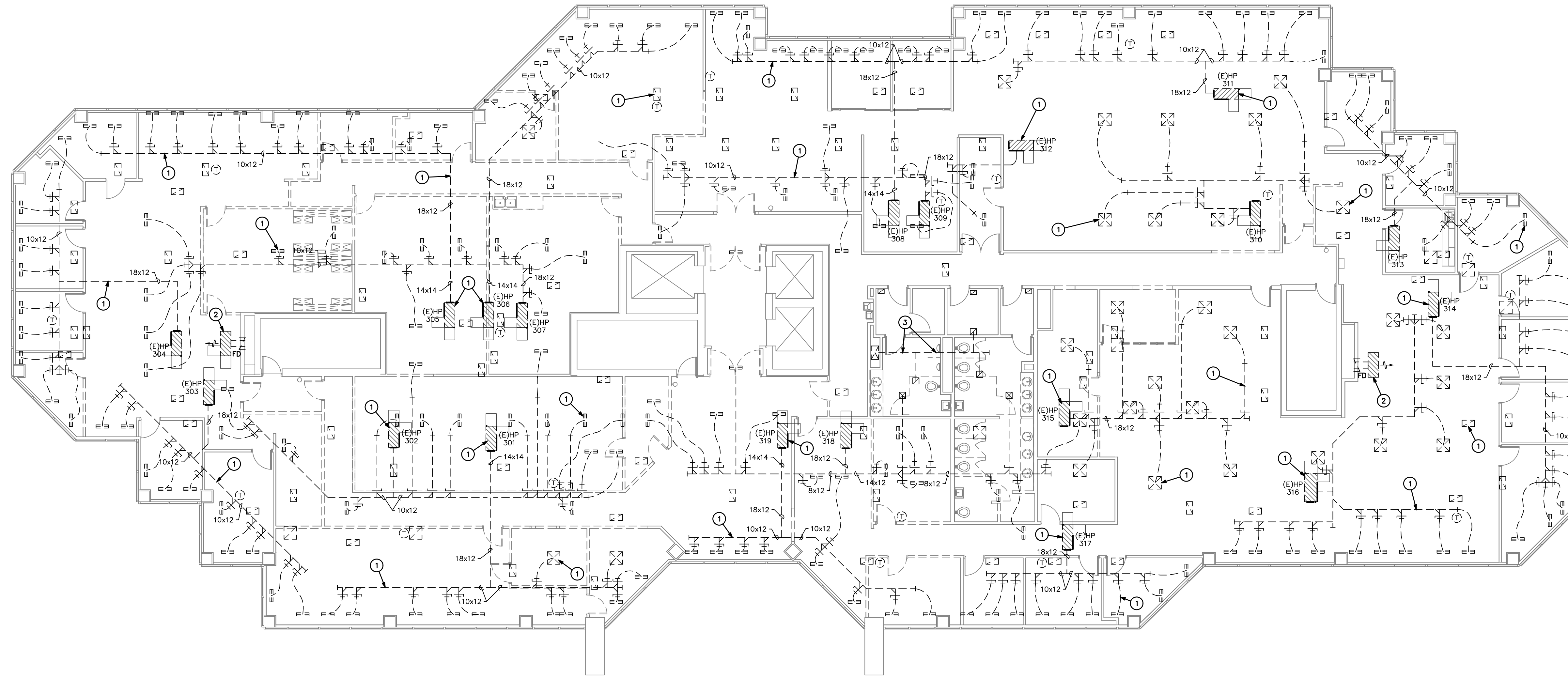
1. OPERATION: OPERATE FAN COILS FROM THE BUILDING AUTOMATION SYSTEM TIME PROGRAM DURING OCCUPIED HOURS. PROGRAMMED START/STOP CONTROL SHALL HAVE ADJUSTABLE ADVANCED START SETPOINT/TIME.
2. OCCUPIED MODE: FAN TO RUN CONTINUOUSLY. TWO POSITION CONTROL VALVE SHALL BE OPEN WHENEVER IN OCCUPIED MODE AND THE OUTSIDE TEMPERATURE IS BELOW 40 DEG F (ADJ.) AND ABOVE 80 DEG F (ADJ.), OTHERWISE THE VALVE WILL BE CLOSED.
3. UNOCCUPIED MODE: FAN SHALL BE OFF AND VALVE CLOSED.
4. SMOKE DETECTOR SHUTDOWN: THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT. SMOKE DETECTOR SHALL BE INTERLOCKED WITH BUILDING FIRE ALARM SYSTEM.
5. POINTS LIST:  
A. SUPPLY AIR TEMPERATURE  
B. SUPPLY FAN STATUS  
C. CONTROL VALVE OPEN/CLOSE



2 OUTSIDE AIR FAN COIL UNIT CONTROLS DIAGRAM  
NOT TO SCALE



1 WATER SOURCE HEAT PUMP UNIT CONTROLS DIAGRAM  
NOT TO SCALE



**MECHANICAL DEMO PLAN - 3RD FLOOR**

SCALE: 1"=10'-0"



**KEYED NOTES**

- ① ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND AIR DISTRIBUTION DEVICES SHOWN LIGHT AND DASHED TO BE REMOVED EXCEPT WHERE SHOWN ON NEW PLAN. REFER TO NEW PLAN. DISPOSE OF ALL EQUIPMENT AS DIRECTED BY OWNER. DEMO ALL CONDENSER WATER PIPING RUNOUTS AND HOSE KITS BACK TO MAIN AND CAP AS REQUIRED. MAINS ARE TO REMAIN. REMOVE ALL UNUSED EQUIPMENT, DUCTWORK, AND PIPING SUPPORTS. CONTRACTOR TO FIELD VERIFY. (TYPICAL)
- ② REMOVE EXISTING OUTSIDE AIR FAN COIL UNIT AND ASSOCIATED DUCTWORK AND FIRE DAMPER.
- ③ EXISTING EXHAUST DUCTWORK TO REMAIN.



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**MECHANICAL  
DEMO PLAN  
3RD FLOOR**

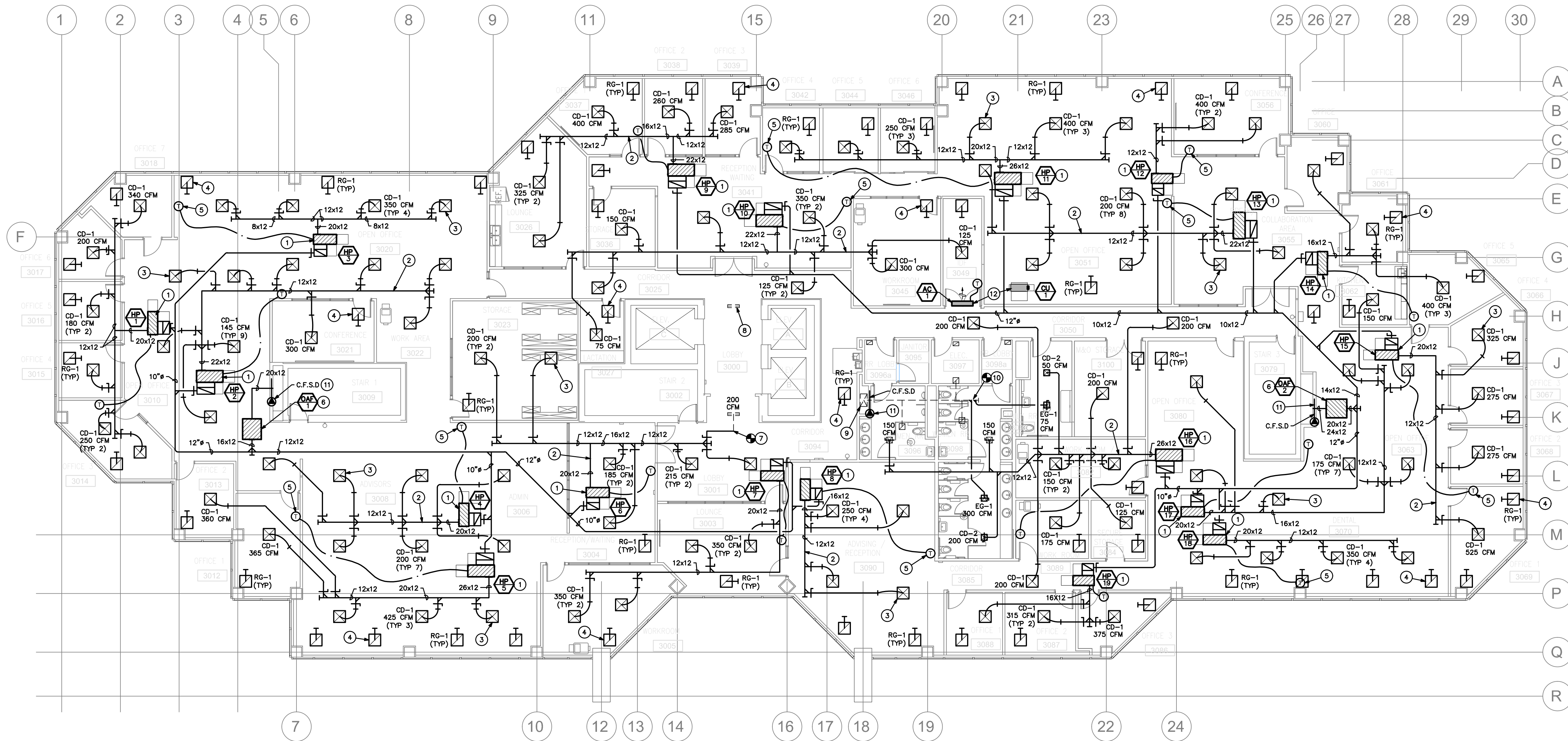
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**M100**

DRAWN BY: RDE	REVIEWED BY: GMS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00

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PLOTTED BY: Ryan.Eggink

PLOTTED: 02.05.2021 - 12:13pm



**MECHANICAL FLOOR PLAN - 3RD FLOOR**

SCALE: 1"=10'-0"

NOTE: NO COMBUSTIBLE MATERIALS INCLUDING ABS, PVC, CPVC, ETC., SHALL BE LOCATED ABOVE CEILINGS WHETHER EXISTING OR NEW. CONTRACTOR TO NOTIFY OWNER IF NON-COMPLIANT MATERIALS ARE DISCOVERED DURING CONSTRUCTION. 2012 IMC SECTION 602.2.1

NOTE:  
CEILING SPACE IS BEING USED AS A RETURN AIR PLENUM.  
-MATERIALS INSTALLED IN OPEN PLENUMS ABOVE CEILING TILES REQUIRE LIMITED FLAME SPREAD. (IMC 602.2.1)  
-ALL PIPING AND MATERIALS INSTALLED IN AN AIR PLENUM SPACE SHALL BE LISTED FOR PLENUM USE. (IMC 602.2.1)  
-ALL WIRING SHALL COMPLY WITH 2005 NEC 300-22(b)

CONTROLS:  
CONTRACTOR TO UPDATE EMS INCLUDING GRAPHIC INTERFACE TO REFLECT CHANGES TO FLOOR PLAN AND HVAC EQUIPMENT IN SCOPE OF WORK.

PATCH AND REPAIR ANY DAMAGED DUCTWORK. SEAL OPENINGS AIRTIGHT AND INSULATE TO MATCH EXISTING.

**KEYED NOTES**

- 1 INSTALL NEW WATER SOURCE HEAT PUMP UNIT. REFER TO SCHEDULE. COORDINATE INSTALLED LOCATIONS AND LEFT/RIGHT HAND CONFIGURATION WITH FIELD CONDITIONS. REFER TO PIPING PLAN M300 FOR NEW CONDENSOR WATER PIPING. (TYPICAL)
- 2 EXTEND NEW LOW PRESSURE SUPPLY DUCTWORK AS SHOWN. COORDINATE WITH FIELD CONDITIONS. (TYPICAL)
- 3 INSTALL NEW SUPPLY DIFFUSER AT LOCATION SHOWN. EXTEND NEW SUPPLY RUNOUT FROM SUPPLY MAIN AND CONNECT. BALANCE TO AIRFLOWS INDICATED. (TYPICAL)
- 4 INSTALL NEW RETURN GRILLE AT LOCATION SHOWN. PROVIDE WITH SOUND BOOT. REFER TO SOUND BOOT DETAIL. RETURN GRILLES AT EXTERIOR LOCATIONS SHALL BE PLACED AS CLOSE TO EXTERIOR GLASS AS POSSIBLE. (TYPICAL)
- 5 INSTALL NEW TEMPERATURE SENSOR AT LOCATION SHOWN. EXTEND PLENUM RATED CONTROL WIRING BACK TO ASSOCIATED UNIT. COORDINATE WITH SYSTEMS FURNITURE. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. (TYPICAL) INTERFACE WITH BUILDING AUTOMATION SYSTEM.
- 6 INSTALL NEW OUTSIDE AIR FAN COIL UNIT AS SHOWN. COORDINATE WITH FIELD CONDITIONS. EXTEND DUCTWORK BACK TO MECHANICAL SHAFT AND PROVIDE COMBINATION FIRE/SMOKE DAMPER. EXTEND OUTSIDE AIR DUCTWORK TO HEAT PUMP UNITS AS SHOWN AND CONNECT TO RETURN PLENUMS WITH BALANCING DAMPER. BALANCE OUTSIDE AIR TO EACH UNIT TO AIRFLOWS ON VENTILATION SCHEDULE. (TYPICAL)
- 7 CONNECT NEW SUPPLY DUCT TO EXISTING SUPPLY DIFFUSER AND BALANCE TO CFM SHOWN.
- 8 EXISTING RETURN GRILLE TO REMAIN.
- 9 EXISTING EXHAUST RISER TO REMAIN.
- 10 EXTEND NEW EXHAUST DUCTWORK AS SHOWN.
- 11 PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT EXISTING SHAFT PENETRATION. SEE DETAIL.
- 12 WALL MOUNTED MINI-SPLIT SYSTEM A/C UNIT WITH CONDENSING UNIT MOUNTED ON ROOF. COORDINATE WITH EQUIPMENT VENDOR AND EQUIPMENT IN ROOM FOR FINAL INSTALLED LOCATION. MOUNT AS HIGH AS POSSIBLE. PROVIDE WITH CONDENSATE PUMP WIRED TO INDOOR UNIT. ROUTE REFRIGERANT PIPING UP TO ROOF AND CONNECT TO OUTDOOR UNIT. FIELD VERIFY FOR CONDENSING UNIT LOCATION AND REFRIGERANT PIPING ROUTING AND COORDINATE WITH FACILITY ENGINEER. PROVIDE WALL MOUNTED TEMPERATURE SENSOR TIED TO BMS TO SEND ALARM UPON HIGH TEMP LIMIT.

CONTRACTOR SHALL SIZE O.A. RUNOUTS TO HEAT PUMPS AS SHOWN:  
**O.A. RUNOUT SCHEDULE**  
160 CFM OR LESS - 8"Ø  
161-300 CFM - 10"Ø  
301-400 CFM - 12"Ø

REFER TO SHEET M300 FOR CONDENSATE DRAIN AND CONDENSER WATER PIPING



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No.	Description	Date

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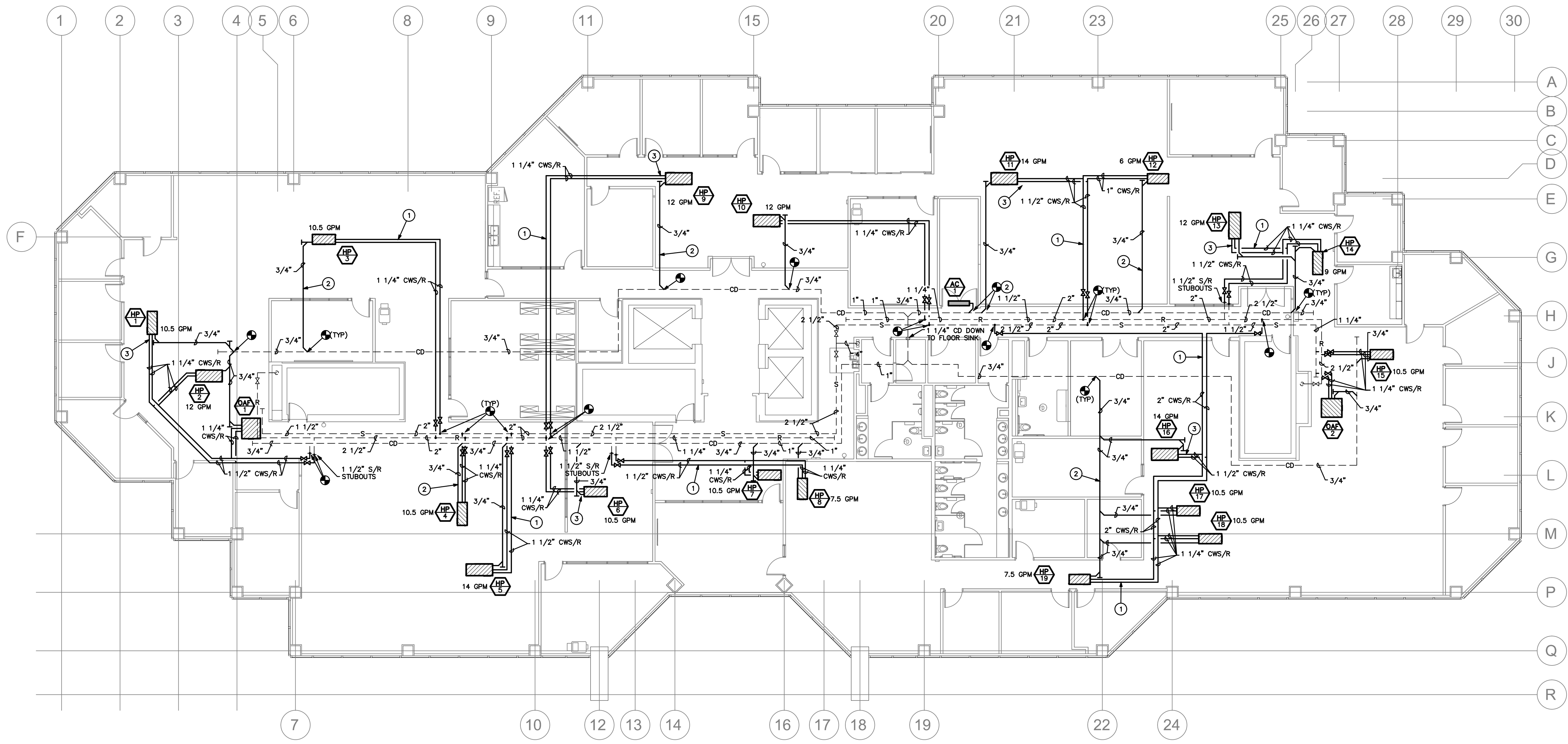
**MECHANICAL FLOOR PLAN  
3RD FLOOR**

SHEET NUMBER:  
**M200**

DRAWN BY: <b>RDE</b>	REVIEWED BY: <b>GMS</b>
DATE: 02/08/2021	PROJECT NUMBER: 1831.00

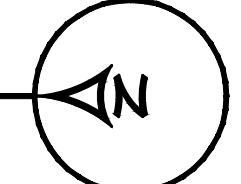


No.	Description	Date



**MECHANICAL PIPING PLAN - 3RD FLOOR**

SCALE: 1"=10'-0"



**KEYED NOTES**

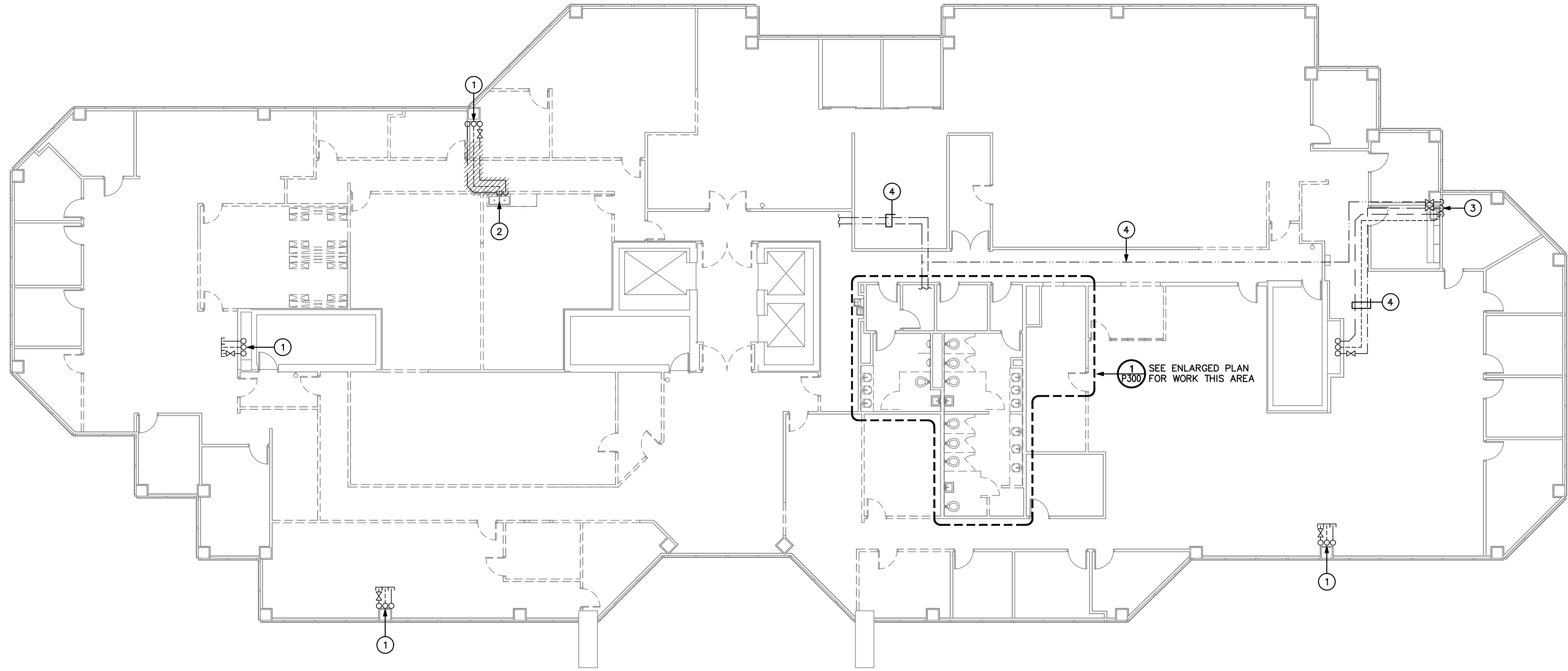
- ① EXTEND NEW SUPPLY AND RETURN CONDENSER WATER PIPING OF SIZE SHOWN AND CONNECT TO EXISTING MAINS OF SIZE INDICATED. FIELD VERIFY EXACT LOCATION AND PIPE SIZE BEFORE CONNECTIONS. PROVIDE NEW SHUT OFF VALVES AT ALL BRANCH PIPING. VALVES TO BE IN ACCESSIBLE LOCATION. (TYPICAL)
- ② EXTEND 3/4" CONDENSATE DRAIN PIPING TO EXISTING MAIN. CONTRACTOR TO VERIFY THAT ADEQUATE SLOPE IS AVAILABLE. (TYPICAL)
- ③ SEE DETAIL FOR NEW VALVE AND CONDENSER WATER PIPING REQUIREMENTS. (TYPICAL)



FILE: J:\2020\201003 MCD Rio Salado Tower 3rd Floor Remodel\PT100.dwg

PLOTTED BY: jayson.joy

PLOTTED: 02.08.2021 - 3:21pm



### PLUMBING DEMO PLAN - 3RD FLOOR

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

#### KEYED NOTES

- ① EXISTING WET STACKS TO REMAIN (4" SANITARY, 3" VENT, 3" CW).
- ② EXISTING SINK TO BE REMOVED. DEMO ALL PIPING INCLUDING TRAP, TRAP ARM, CW & HW STOPS AND SUPPLIES. DEMO PIPING SHOWN HATCHED BACK TO POINTS OF CONNECTION AT WET STACK, CAP TIGHT.
- ③ EXISTING SINK TO REMAIN.
- ④ EXISTING PIPING TO REMAIN. SHOWN FOR REFERENCE ONLY.

# DWL ARCHITECTS+

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201003

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281



#### REVISIONS

No.	Description	Date

#### BIDDING SET

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KEY:

SHEET TITLE:  
**PLUMBING  
DEMO PLAN**

SHEET NUMBER:  
**P100**

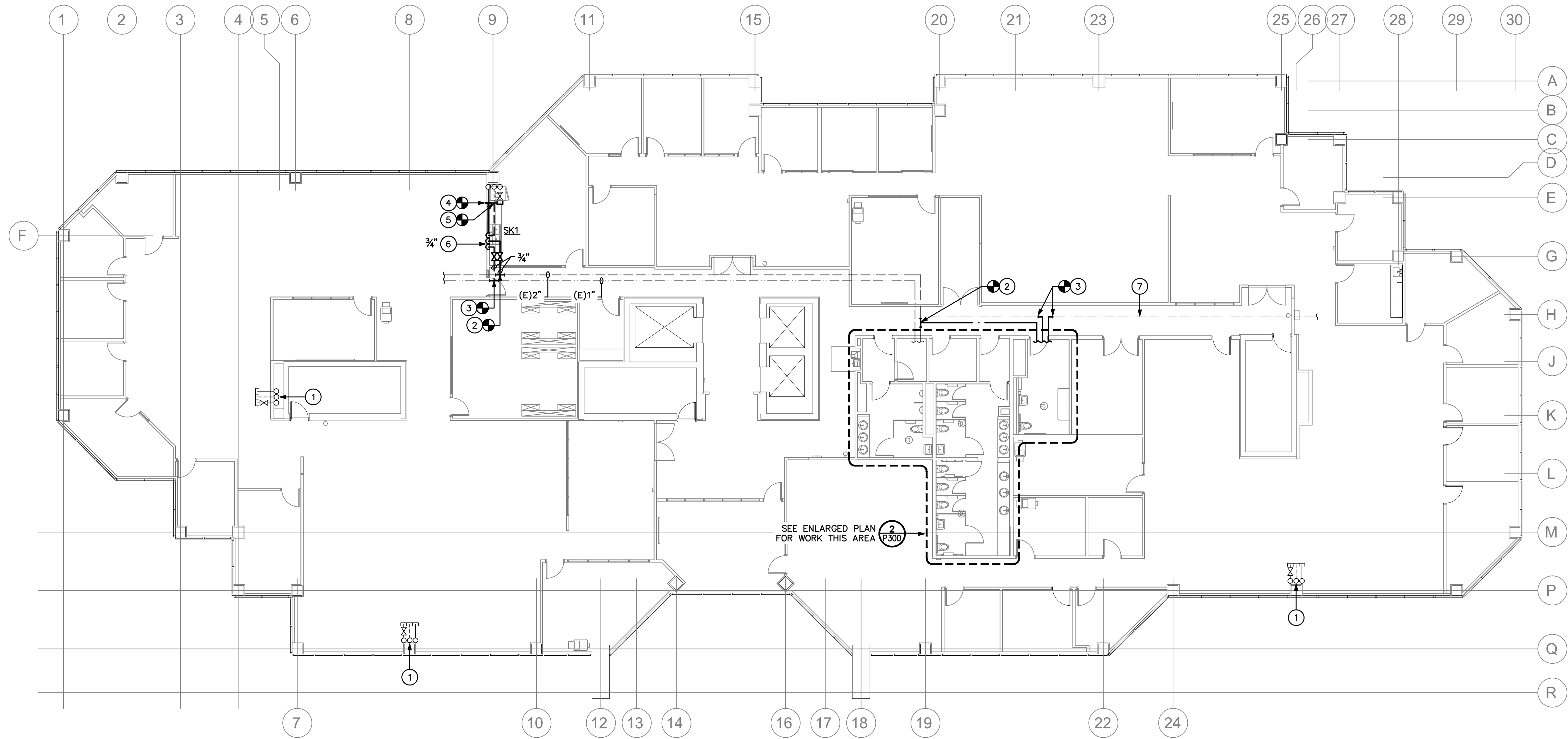
DRAWN BY: RJS	REVIEWED BY: MCK
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



FILE: J:\2020\201003 MCD Rio Salado Tower 3rd Floor Remodel\200.dwg

PLOTTED BY: jayson.joy

PLOTTED: 02.08.2021 - 3:21pm



**PLUMBING PLAN - 3RD FLOOR**

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

**KEYED NOTES**

- ① EXISTING WET STACKS TO REMAIN (4" SANITARY, 3" VENT, 3" CW).
- ② CONNECT CW TO EXISTING 2" CW ABOVE CEILING THIS AREA. COORDINATE WORK WITH BUILDING ENGINEER.
- ③ CONNECT HW TO EXISTING 1" HW ABOVE CEILING THIS AREA. COORDINATE WORK WITH BUILDING ENGINEER.
- ④ CONNECT SANITARY WASTE PIPING TO EXISTING 4" WASTE STUB-OUT BELOW FLOOR/ABOVE CEILING OF FLOOR BELOW. COORDINATE WORK WITH BUILDING ENGINEER.
- ⑤ CONNECT SANITARY VENT TO EXISTING 2" VENT STUB-OUT ABOVE CEILING.
- ⑥ CW AND HW DROPS TO SERVE SINK.

**SHEET NOTES**

- 1. MODIFY THE EXISTING WET PIPE FIRE SPRINKLER SYSTEM TO CONFORM TO THE NEW PARTITION LAYOUT AND REFLECTED CEILING PLAN.
- 2. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID, TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING WASTE SIZE, INVERT & LOCATION, AND VENT SIZE & LOCATION.
- 3. ALL REFERENCES ON THESE DRAWINGS TO EXISTING WASTE, WATER, AND VENT PIPING IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- 4. NO ALLOWANCE WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- 5. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.
- 6. COORDINATE ANY REQUIRED INTERRUPTIONS IN ADJACENT OCCUPIED TENANT SPACES WITH BUILDING ENGINEER.



**REVISIONS**

No.	Description	Date

**BIDDING SET**

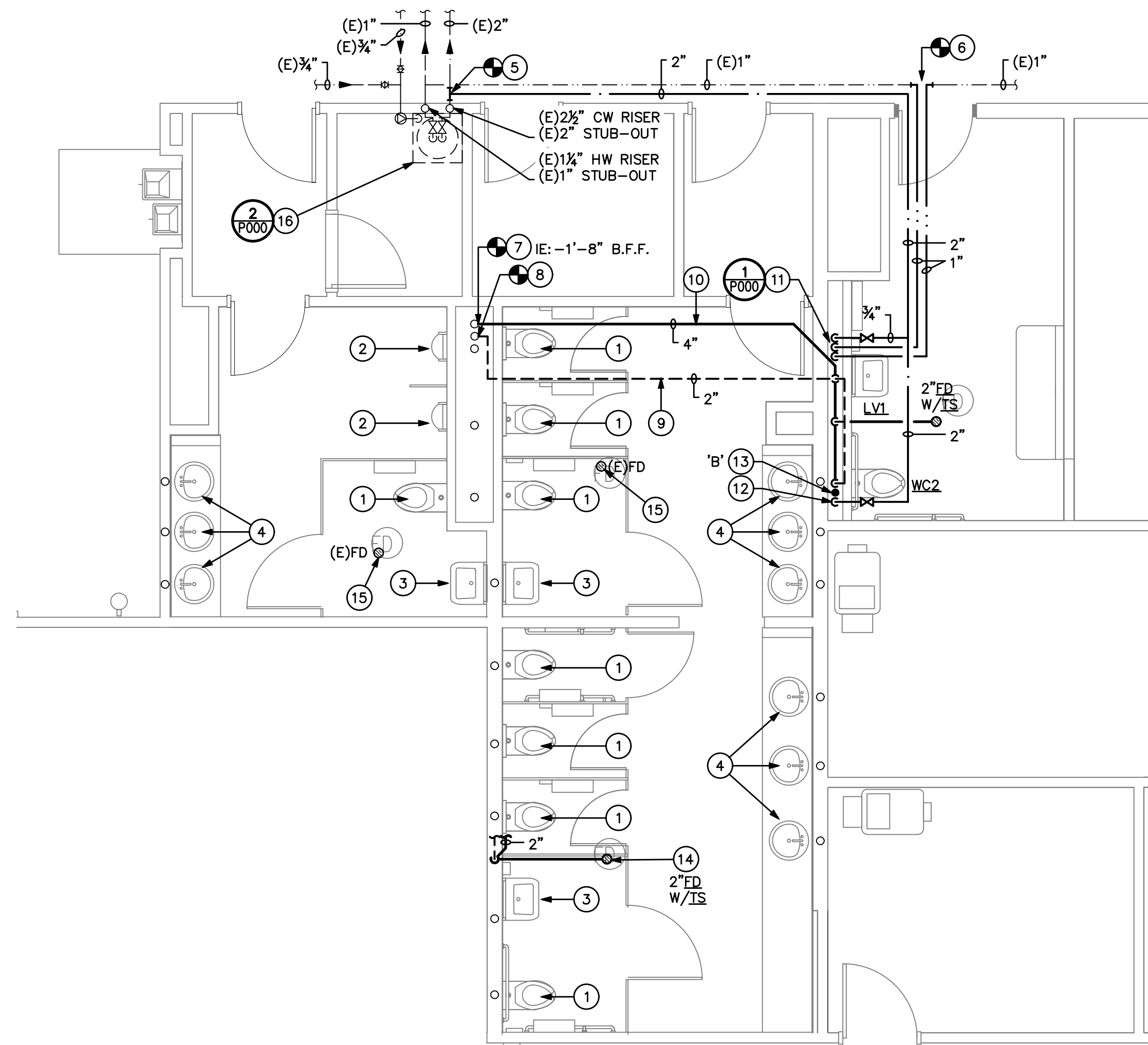
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KEY:

SHEET TITLE:  
**PLUMBING PLAN -  
OVERALL  
3RD FLOOR**

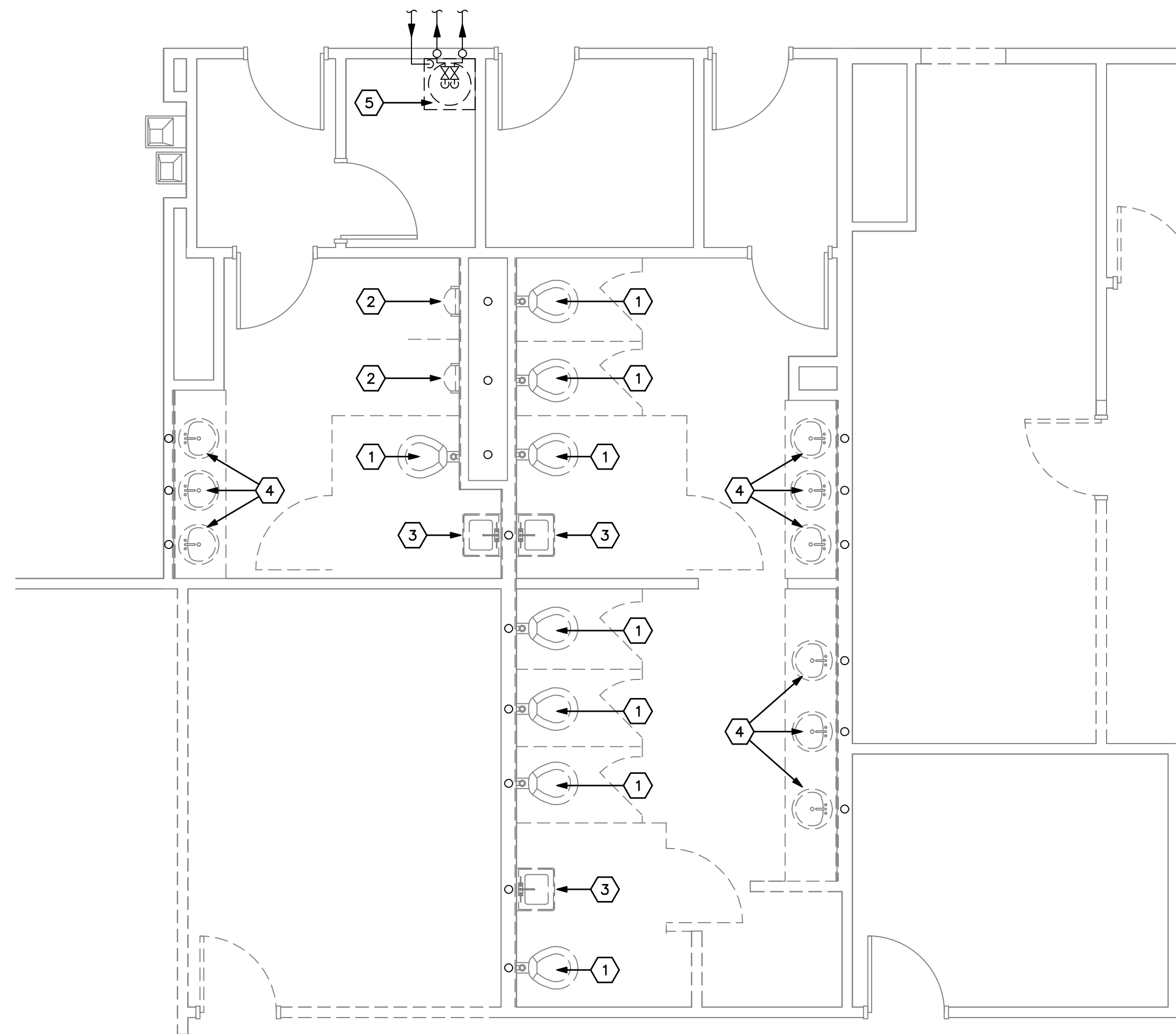
SHEET NUMBER:  
**P200**

DRAWN BY: RJS	REVIEWED BY: MCK
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



**ENLARGED PLUMBING PLAN - RESTROOMS - 3RD FLOOR**

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



**ENLARGED DEMO PLAN - RESTROOM - 3RD FLOOR**

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

**KEYED NOTES**

- 1 INSTALL NEW WATER CLOSET AND FLUSH VALVE.
- 2 INSTALL NEW URINAL AND FLUSH VALVE.
- 3 INSTALL NEW WALL HUNG LAVATORY AND FAUCET. PROVIDE NEW SHUT-OFF VALVES, MIXING VALVE (IMV), AND SUPPLIES. COORDINATE WORK WITH BUILDING ENGINEER.
- 4 INSTALL NEW LAVATORY AND FAUCET. PROVIDE NEW SHUT-OFF VALVES, MIXING VALVE (IMV), AND SUPPLIES. COORDINATE WORK WITH BUILDING ENGINEER.
- 5 CONNECT CW TO EXISTING 2" CW ABOVE CEILING THIS AREA. COORDINATE WORK WITH BUILDING ENGINEER.
- 6 CONNECT HW TO EXISTING 1" CW ABOVE CEILING THIS AREA. COORDINATE WORK WITH BUILDING ENGINEER.
- 7 CONNECT SANITARY WASTE PIPING TO EXISTING 4" WASTE STACK IN CHASE AT FLOOR BELOW. ROUTE PIPING ABOVE CEILING AT FLOOR BELOW AS SHOWN. COORDINATE WORK WITH BUILDING ENGINEER.
- 8 CONNECT SANITARY VENT TO EXISTING 4" VENT STACK IN CHASE.
- 9 PIPING ABOVE CEILING.
- 10 PIPING BELOW FLOOR/ABOVE CEILING AT FLOOR BELOW.
- 11 CW AND HW DROPS IN WALL TO SERVE LAVATORY.
- 12 CW DROP IN WALL TO SERVE WATER CLOSET.
- 13 WATER HAMMER ARRESTOR (PDI SIZE NOTED) ON CW SUPPLY. PROVIDE ACCESS PANEL IN WALL. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT.
- 14 INSTALL NEW 2" FLOOR DRAIN WITH TRAP SEAL. EXTEND 2" DRAIN BELOW FLOOR AND CONNECT TO EXISTING SANITARY WASTE THIS AREA. FIELD VERIFY EXACT LOCATION. CONNECT NEW SANITARY VENT TO EXISTING IN WALL.
- 15 EXISTING FLOOR DRAIN TO REMAIN. PROVIDE TRAP SEAL IN EXISTING DRAIN.
- 16 REPLACE EXISTING WATER HEATER WITH NEW 30 GALLON HEATER, 4.5KW, 208/1PH. TO MATCH EXISTING, AND PROVIDE NEW MASTER MIXING VALVE WITH CONNECTIONS TO EXISTING HOT WATER SUPPLY. REFER TO DETAIL FOR MORE INFO.

**DEMO KEYED NOTES**

- 1 EXISTING WATER CLOSETS AND FLUSH VALVES TO BE REMOVED AND REPLACED WITH NEW.
- 2 EXISTING URINALS AND FLUSH VALVES TO BE REMOVED AND REPLACED WITH NEW.
- 3 EXISTING WALL HUNG LAVATORY AND FAUCET TO BE REMOVED AND REPLACED WITH NEW. REPLACE VALVES AND SUPPLIES. COORDINATE WATER SHUT-OFF TIMES WITH BUILDING ENGINEER.
- 4 EXISTING LAVATORY AND FAUCET TO BE REMOVED AND REPLACED WITH NEW. REPLACE VALVES AND SUPPLIES. COORDINATE WATER SHUT-OFF TIMES WITH BUILDING ENGINEER.
- 5 EXISTING WATER HEATER, CIRCULATION PUMP, AND ALL ASSOCIATED PIPING TO REMAIN.

**SHEET NOTES**

1. MODIFY THE EXISTING WET PIPE FIRE SPRINKLER SYSTEM TO CONFORM TO THE NEW PARTITION LAYOUT AND REFLECTED CEILING PLAN.
2. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID, TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING WASTE SIZE, INVERT & LOCATION, AND VENT SIZE & LOCATION.
3. ALL REFERENCES ON THESE DRAWINGS TO EXISTING WASTE, WATER, AND VENT PIPING IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
4. NO ALLOWANCE WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
5. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.
6. COORDINATE ANY REQUIRED INTERRUPTIONS IN ADJACENT OCCUPIED TENANT SPACES WITH BUILDING ENGINEER.



**REVISIONS**

No.	Description	Date

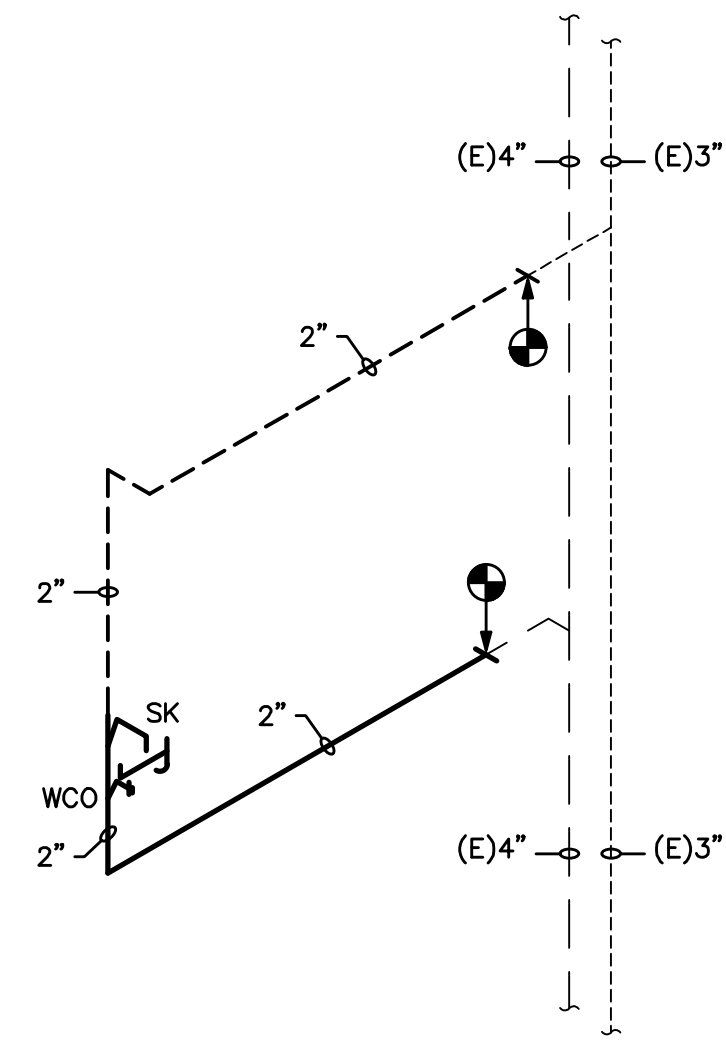
**BIDDING SET**

KEY:

**ENLARGED PLUMBING PLANS - 3RD FLOOR**

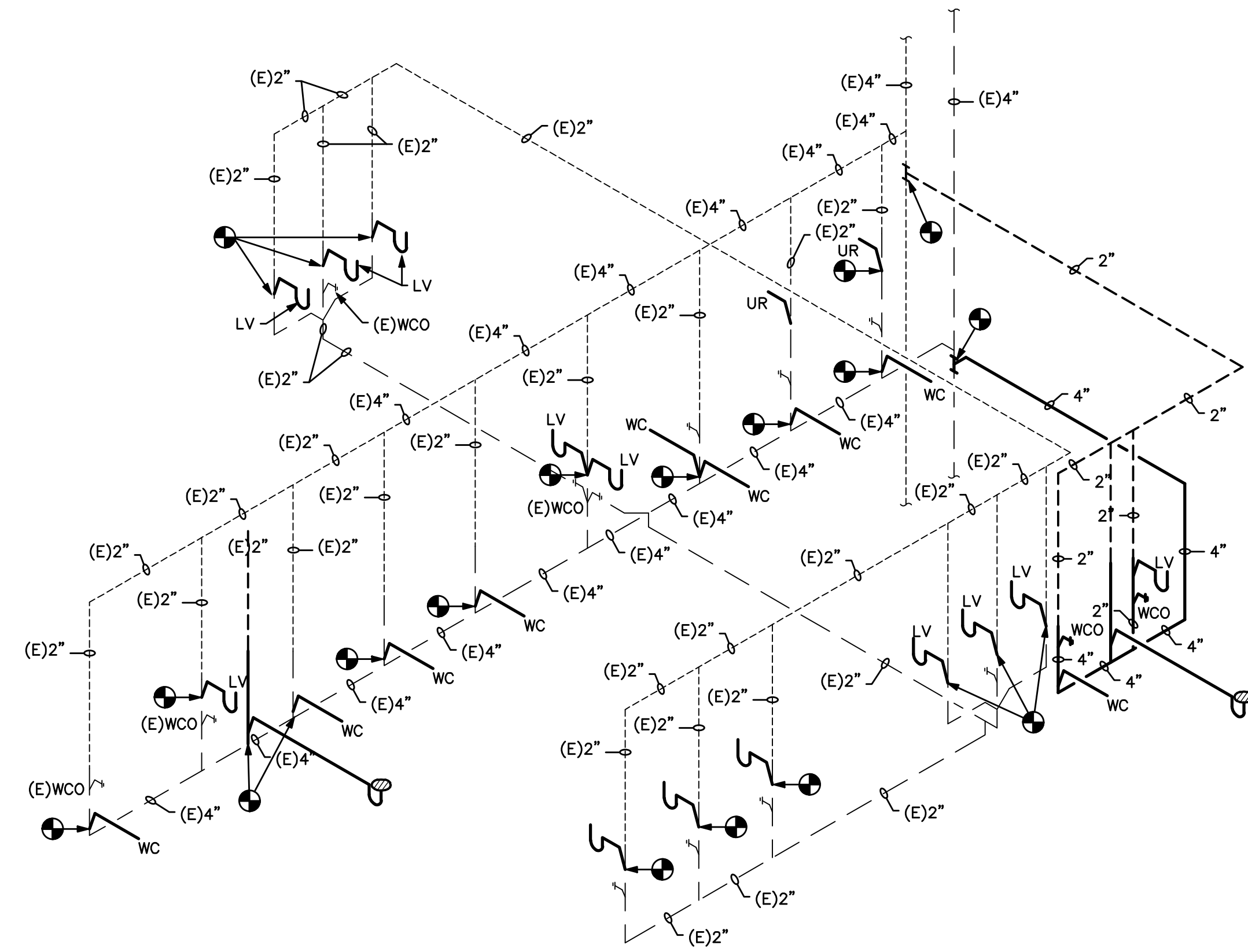
SHEET NUMBER:  
**P300**

DRAWN BY: RJS	REVIEWED BY: MCK
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



**WASTE AND VENT DIAGRAM -  
BREAKROOM (NORTH) - 3RD FLOOR**  
NOT TO SCALE

2



**WASTE AND VENT DIAGRAM - RESTROOMS - 3RD FLOOR**  
NOT TO SCALE

1



# ELECTRICAL SYMBOLS

**NOTE:** NOT ALL SYMBOLS ARE USED.

- WALL LIGHT/OUTLET FIXTURE. UPPER CASE LETTER WITH NUMBER INDICATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE. LOWER CASE LETTER INDICATES SWITCHING. NUMBER INDICATES BRANCH CIRCUIT(S).
- DOWN LIGHT FIXTURE. UPPER CASE LETTER WITH NUMBER INDICATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE. LOWER CASE LETTER INDICATES SWITCHING. NUMBER INDICATES BRANCH CIRCUIT(S).
- WALL WASH LUMINAIRE. UPPER CASE LETTER WITH NUMBER INDICATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE. LOWER CASE LETTER INDICATES SWITCHING. NUMBER INDICATES BRANCH CIRCUIT(S).
- LINEAR LUMINAIRE. UPPER CASE LETTER WITH NUMBER INDICATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE. LOWER CASE LETTER INDICATES SWITCHING. NUMBER INDICATES BRANCH CIRCUIT(S).
- TRACK LIGHTING SYSTEM. TRIANGLES DENOTE TRACK HEADS. UPPER CASE LETTER WITH NUMBER INDICATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE. LOWER CASE LETTER INDICATES SWITCHING. NUMBER INDICATES BRANCH CIRCUIT(S).
- EMERGENCY LUMINAIRE. EMERGENCY LUMINAIRE IS EITHER CONNECTED TO A LIFE SAFETY GENERATOR SYSTEM, INVERTER, OR BATTERY PACK. UPPER CASE LETTER WITH NUMBER INDICATES TYPE, WHERE AN "E" OR "G" ALSO DENOTES AN EMERGENCY LUMINAIRE. LOWER CASE LETTER INDICATES SWITCHING CONTROL. THE "NL" ANNOTATION DENOTES THE LUMINAIRE SHALL NOT BE CONTROLLED AND SHALL ALWAYS BE ON. EMERGENCY LUMINAIRE SHALL NOT BE SWITCHED OFF, BUT MAY BE DIMMED TO A MINIMUM OF ONE FOOT CANDLE AT FINISHED FLOOR, UNO.
- EXIT SIGN. SHADED PORTION INDICATES FACE OF SIGN. SEE LIGHT FIXTURE SCHEDULE.
- EMERGENCY LIGHT BATTERY PACK WITH TWIN LAMP HEADS. SEE LIGHT FIXTURE SCHEDULE.
- JUNCTION BOX IN ACCESSIBLE LOCATION ABOVE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LIGHT FIXTURE.
- JUNCTION BOX IN ACCESSIBLE LOCATION.
- SINGLE POLE SWITCH.
- TWO (2) POLE SWITCH.
- THREE-WAY SWITCH.
- FOUR-WAY SWITCH.
- SINGLE POLE DIMMER SWITCH.
- FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT. "WP" INDICATES LIQUID TIGHT AND WEATHERPROOF COVER.
- SINGLE RECEPTACLE. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER.
- DUPLEX RECEPTACLE. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER.
- FOURPLEX RECEPTACLE. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER.
- ISOLATED GROUND DUPLEX RECEPTACLE. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER.
- ISOLATED GROUND FOURPLEX RECEPTACLE. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER.
- FLUSH FLOOR OUTLET WITH DEVICE SYMBOLIZED. PROVIDE ITS BRASS DEVICE PLATE AND CARPET FLANGE, IN CARPETED AREAS. TELEPHONE AND DATA OUTLETS SHALL HAVE MIN. 1" C. WITH PULL STRINGS STUBBED UP INTO ACCESSIBLE CEILING SPACE. PROVIDE CONDUIT BUSHINGS ABOVE CEILING.
- SPECIAL PURPOSE RECEPTACLE WITH NEMA CONFIGURATION NOTED, I.E.; 6-50, 15-20, ETC.
- MULTI OUTLET ASSEMBLY. PROVIDE RECEPTACLES AS NOTED. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- NOTE:** REFER TO ABBREVIATIONS FOR RECEPTACLE SUBSCRIPTS.
- DATA OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE JUNCTION BOX (SINGLE GANG MUD RING) IN WALL AND 1-1/4" CONDUIT WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- TELEPHONE OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. "P" INDICATES PAYPHONE PROVIDE #6 CU GROUND PER NEC #800. PROVIDE JUNCTION BOX (SINGLE GANG MUD RING) IN WALL AND 1-1/4" CONDUIT WITH PULL STRING INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- DATA AND COMMUNICATIONS JACK. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE JUNCTION BOX (SINGLE GANG MUD RING) IN WALL AND 1-1/4" CONDUIT WITH PULL STRING INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- TMB 4"x4"x3/4" THICK FIRE RATED TELEPHONE BOARD. MOUNT AT 6" BELOW CEILING. PROVIDE #6 SOLID CU GROUND PER NEC #800.
- TTC TELEPHONE TERMINAL CABINET. NEMA 3R HINGED DOOR. COORDINATE SIZE WITH SERVING UTILITY. PROVIDE #6 SOLID CU GROUND PER NEC #800-100.
- CIRCUITS IN CONDUIT CONCEALED IN FLOOR OR BELOW GRADE. HACHURES INDICATE NUMBER OF PHASE AND NEUTRAL CONDUCTORS ONLY. WHERE NO HACHURES ARE SHOWN PROVIDE 2 #12 Cu, 1 #12 Cu G. WHERE WIRE IS NOTED ON HOMERUN TO BE LARGER THAN #12, PROVIDE SIZE WIRE AND CONDUIT INDICATE FOR ENTIRE LENGTH OF CIRCUIT. MINIMUM CONDUIT SIZE IS 3/4". PROVIDE A GROUNDING CONDUCTORS SIZED PER NEC 250 IN ALL RACEWAYS. GROUNDING CONDUCTORS ARE NOT NORMALLY SHOWN ON THE DRAWINGS.
- CIRCUITS IN CONDUIT CONCEALED IN WALLS OR ABOVE CEILING.
- HOMERUN TO PANELBOARD OR AS NOTED.
- HEAVY DUTY DISCONNECT SWITCH. HORSEPOWER, VOLTAGE AND PHASE RATED. FUSED UNLESS NOTED "NF" (NON FUSED). SIZE FUSES PER EQUIPMENT MANUFACTURERS NAMEPLATE RECOMMENDATIONS. PROVIDE NEMA 3R WHERE OUTSIDE.
- CONDUIT STUB-UP.
- CONDUIT STUB-OUT. CAP AND MARK FOR FUTURE USE.
- PANELBOARD. SURFACE OR FLUSH AS SCHEDULED.
- MOTOR. SIZE AND RATING AS SHOWN. "EF" INDICATES 150 WATT EXHAUST FAN.
- TELEVISION OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" C. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- PROVIDE SYSTEM FURNITURE POWER AND VOICE/DATA BASE FEEDS. PROVIDE SINGLE GANG MUDRING WITH PULL TAPE TO ACCESSIBLE CEILING SPACE FOR VOICE/DATA CABLING TO SYSTEM FURNITURE, UNO. MAKE FINAL CONNECTIONS AS REQUIRED.

# DEMOLITION NOTES

1. ANY ELECTRICAL DEVICE OR EQUIPMENT NOT NOTED TO BE REMOVED OR RELOCATED SHALL REMAIN UNCHANGED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE ARCHITECT/ENGINEER REGARDING ANY ITEM IN QUESTION.
2. WHERE ITEMS ARE NOTED TO BE REMOVED, ELECTRICAL CONTRACTOR SHALL:
  - A) REMOVE INDICATED ITEM.
  - B) REMOVE ANY ASSOCIATED CONDUIT AND WIRING WHERE SURFACE MOUNTED OR ABOVE AN ACCESSIBLE CEILING.
  - C) PULL OUT ASSOCIATED WIRING, CUT OFF, CAP, and ABANDON CONDUIT WHERE CONCEALED IN WALLS OR PARTITIONS WHICH ARE REMAINING.
  - D) RETURN ALL REMOVED EQUIPMENT TO OWNER OR DISPOSE OF AS DIRECTED BY OWNER.
3. WHERE ELECTRICAL CONTRACTOR REMOVES AN ITEM AND CIRCUITING TO OTHER ITEMS WILL BE INTERRUPTED, ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CONDUIT, WIRE, BOXES, ETC. AS REQUIRED AND RECONNECT REMAINING ITEMS SO THEY WILL NOT BE INTERRUPTED.
4. WHERE AN ITEM IS SHOWN TO BE RELOCATED, ELECTRICAL CONTRACTOR SHALL EXTEND WIRING AND CONDUIT TO THE APPROPRIATE NEW LOCATION AND PROVIDE ALL NECESSARY CONDUIT, WIRE, BOXES, ETC. AS REQUIRED. RECONNECT TO EXISTING CIRCUIT OR RE-CIRCUIT AS SHOWN. IF DEVICE IS NOT SALVAGEABLE, ELECTRICAL CONTRACTOR SHALL PROVIDE A NEW DEVICE.
5. THE FOLLOWING DEMOLITION SYMBOLS MAY BE USED AS WELL AS KEYED NOTES:
  - "R" = NEW LOCATION OF RELOCATED ITEM.
  - "X" = EXISTING ITEM TO REMAIN.
  - "XR" = EXISTING ITEM TO BE REMOVED.
  - "XRP" = EXISTING ITEM TO BE REPLACED WITH NEW IN SAME LOCATION AS SHOWN. EXTEND EXISTING CIRCUIT TO MATCH EXISTING U.N.O.
  - "XRR" = RELOCATE EXISTING ITEM TO NEW LOCATION AS SHOWN. EXTEND EXISTING CIRCUIT TO MATCH EXISTING U.N.O.

# DEVICE MOUNTING HEIGHTS

**NOTE:** ALL HEIGHTS ARE ABOVE FINISHED FLOOR AND TO THE CENTERLINE OF THE INSTALLED DEVICE U.N.O. THE ELECTRICAL CONTRACTOR SHALL ADJUST THE J-BOX MOUNTING HEIGHT ACCORDINGLY.

RECEPTACLES	+18"
TELEPHONE OUTLETS	+18"
DATA OUTLETS	+18"
ABOVE COUNTER RECEPTACLES, TELEPHONE, AND DATA OUTLETS VERIFY WITH ARCHITECT PRIOR TO ROUGH-IN.	
SWITCHES	+46"
DIMMERS	+46"
OTHER CONTROLS	+46"
TIME SWITCHES	+60"
RECEPTACLE(S) LOCATED AT TMB	+46"
FA MANUAL PULL STATION	+46"
FA VISUAL DEVICES *TO BOTTOM OF LENS*	+80"
FA AUDIO DEVICES *TO BOTTOM OF LENS*	+80"
TELEVISION OUTLETS	+96"
INTERCOM SPEAKERS	+96"
CLOCKS	+96"

# FIRE STOP/RESISTIVE NOTES

1. ALL PENETRATIONS OF FIRE RESISTIVE FLOORS, SHAFTS, ROOF STRUCTURES, WALLS AND PARTITIONS SHALL BE PROTECTED IN ACCORDANCE WITH UNIFORM BUILDING CODE REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING REQUIREMENTS.
2. THE CONTRACTORS SHALL BE RESPONSIBLE TO REVIEW EXISTING FACILITY DOCUMENTS AND DETERMINE THE LOCATIONS AS WELL AS THE FIRE RESISTIVE TIME AND TEMPERATURE RATINGS OF ALL FIRE RESISTIVE FLOORS, SHAFTS, WALLS, PARTITIONS, ETC. THE PROPER UL SYSTEM NUMBER FOR EACH TYPE OF PENETRATION FIRE STOP SHALL THEN BE DETERMINED AND PROVIDED. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO INDICATE ALL NECESSARY FIRE STOP COMBINATIONS INCLUDING THE UL SYSTEM NUMBERS AND TYPICAL INSTALLATION DETAILS.
3. FIRE RESISTIVE AND FIRE STOP MATERIALS SHALL BE IN ACCORDANCE WITH UNDERWRITERS' LABORATORIES (UL) LISTINGS FOR THROUGH- PENETRATION FIRE PROTECTION SYSTEMS. THE INSTALLATION OF ALL FIRE RESISTIVE AND FIRE STOP MATERIALS SHALL BE IN ACCORDANCE WITH THE UL LISTING AND MANUFACTURERS' REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN SHOP DRAWING INSTALLATION DETAILS FROM THE MANUFACTURER WHICH INDICATE CONFORMANCE WITH THE UL REQUIREMENTS AND SPECIFY ALL INSTALLATION REQUIREMENTS WITH ALL VARIABLES DEFINED. THESE C/DRAWINGS SHALL BE AVAILABLE ON SITE FOR REVIEW BY THE LOCAL AUTHORITIES, THE OWNER AND ARCHITECT.
4. OUTLETS (OPENINGS) IN WALLS OR PARTITIONS REQUIRING PROTECTED OPENINGS SHALL NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION AREA.

# ABBREVIATIONS

- AFC ..... AVAILABLE FAULT CURRENT
- AFF ..... ABOVE FINISHED FLOOR
- AFG ..... ABOVE FINISHED GRADE
- AIC ..... AMPERE INTERRUPTING CAPACITY
- ATS ..... AUTOMATIC TRANSFER SWITCH
- BF ..... BASE FEED
- C ..... CEILING MOUNTED DEVICE
- CAC/CRAC ..... COMPUTER ROOM AIR CONDITIONING
- CF ..... COMPACT FLUORESCENT
- DW ..... DISHWASHER
- DISP ..... DISPOSAL
- EC ..... EVAPORATIVE COOLER
- EDF ..... ELECTRIC DRINKING FOUNTAIN
- EF ..... EXHAUST FAN
- EMT ..... ELECTRICAL METALLIC TUBING
- EP ..... EMERGENCY PHONE
- EUH ..... ELECTRIC UNIT HEATER
- G/GRD ..... COPPER GROUNDING/BONDING CONDUCTOR
- GF/GFP ..... GROUND FAULT PROTECTED
- GFI/GFCI ..... GROUND FAULT CIRCUIT INTERRUPTER
- HID ..... HIGH INTENSITY DISCHARGED
- HPS ..... HIGH PRESSURE SODIUM
- IG ..... ISOLATED GROUND CONDUCTOR/RECEPTACLE
- IM ..... ICE MACHINE/MAKER
- LC ..... LIGHTING CONTACTOR
- LKH ..... LOCK ON DEVICE FOR CIRCUIT BREAKER
- LOTO ..... LOCK OUT TAG OUT DEVICE FOR CIRCUIT BREAKER
- MCC ..... MOTOR CONTROL CENTER
- MH ..... METAL HALIDE
- N ..... NEUTRAL CONDUCTOR
- NF ..... NON-FUSED
- NIC ..... NOT IN CONTRACT
- NL ..... NIGHT LIGHT
- PNL ..... PANEL
- PVC ..... RIGID PVC CONDUIT, SCHEDULE 40 UNO
- RA ..... RETURN AIR FAN
- RAF ..... RAISED ACCESS FLOOR
- RMC ..... RIGID METAL CONDUIT
- SES ..... SERVICE ENTRANCE SWITCHBOARD
- SF ..... SUPPLY FAN
- ST ..... SHUNT TRIP
- SWBD ..... SWITCHBOARD
- TC ..... TIME CLOCK
- TS ..... TIME SWITCH
- UNO ..... UNLESS NOTED OTHERWISE
- VFD ..... VARIABLE FREQUENCY DRIVE
- WH ..... WATER HEATER
- WP ..... WEATHERPROOF
- XFMR ..... TRANSFORMER

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 Design Contact: ANDY NATHAL  
 Project #: 201003

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
 Third Floor Remodel**  
 2323 W. 14th Street, Tempe, AZ 85281

**RIO SALADO COLLEGE**  
 A MARICOPA COMMUNITY COLLEGE

**REVISIONS**

No.	Description	Date

**BIDDING SET**

KEY:

**ELECTRICAL SYMBOLS AND NOTES**

**E000**

DRAWN BY: AJN      REVIEWED BY: NAS  
 DATE: 02/08/2021      PROJECT NUMBER: 1831.00



FILE: C:\Users\andy.nathal\appdata\local\temp\AcPublish\_11568\E000.dwg

PLOTTED BY: andy.nathal

PLOTTED: 02.05.2021 - 11:09am

LUMINAIRE SCHEDULE								
MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS	VOLTAGE	INPUT WATTAGE	MOUNTING	NOTES
L1	HUBBELL LIGHTING	CFP24-5540	2'x4' FLAT PANEL, LED, 4000K, 5500 LUMEN, DIMMING	LED	277	50	RECESSED GRID	2 (PROVIDED BY OWNER)
L2	HUBBELL LIGHTING	CFP22-4040	2'x2' FLAT PANEL, LED, 4000K, 4000 LUMEN, DIMMING	LED	277	40	RECESSED GRID	2 (PROVIDED BY OWNER)
L3	PRESCOLITE	LF6SL-DM1-6LFSL-15L-40K-8	6" DOWN LIGHT, LED, 4000K, 1500 LUMEN, DIMMING	LED	277	16	RECESSED GRID	
L4	COLUMBIA LIGHTING	MPS-4-40-ML-C-W-E-U	4' STRIP LIGHT, LED, 4000K, 4800 LUMEN	LED	277	40	PENDANT	
X	DUAL LITE	LES--*-R--*-W-E	EDGE LIT LED EXIT FIXTURE	LED	277	5	SURFACE	1

**LUMINAIRE SCHEDULE KEYED NOTES**

- 1 VERIFY MOUNTING TYPE AND DIRECTIONAL CHEVRONS WITH DRAWINGS PRIOR TO ORDERING. EXIT SIGN WATTAGE SHALL NOT EXCEED 5 WATTS PER SIDE. COLOR SHALL MATCH BUILDING STANDARD.
- 2 SPECIFIED FIXTURE IS CORPORATE STANDARD, PROVIDED BY OWNER FROM PRE-PURCHASED, ON-HAND, STOCKPILE. VERIFY QUANTITY OF AVAILABLE LIGHT FIXTURES AND AVAILABLE LIGHT FIXTURES EQUIPPED WITH INTEGRAL BATTERY BACK-UP WITH CLIENT AND PROVIDE NEW TO MATCH IF NECESSARY. INCLUDE CONTRACTOR PROCURED FIXTURES IN LIGHTING FIXTURE SUBMITTAL.

**LUMINAIRE SCHEDULE GENERAL NOTES**

- 1. ELECTRICAL CONTRACTOR SHALL VERIFY FINISHES OF ALL LIGHTING PRODUCTS WITH ARCHITECT.
- 2. ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING DETAILS OF ANY ATYPICAL LIGHT FIXTURES.
- 3. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL LUMINAIRE SELECTION WITH ARCHITECT AND GENERAL CONTRACTOR. NOTIFY ELECTRICAL ENGINEER WITH ANY LAMP WATTAGE CHANGES.

**COMcheck Software Version 4.1.1.0**  
**Interior Lighting Compliance Certificate**

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title: Rio Salado College Tower: Third Floor Remodel  
 Project Type: Alteration

Construction Site: 2323 W. 14th Street, Tempe, AZ 85281  
 Owner/Agent: DWL Architects, 2333 North Central Avenue, Phoenix, AZ 85004, 602.264.9731  
 Designer/Contractor: Energy Systems Design, 7135 E. Camelback Rd., Suite 275, Scottsdale, AZ 85251, 480.481.4900

A	B	C	D
Area Category	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts (B X C)
1-Office	20235	0.79	15986
Total Allowed Watts =			15986

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
Office (20235 sq.ft.)				
LED 1: L1: 2X4 LED FLAT PANEL: Other:	1	205	50	10250
LED 2: L2: 2X2 LED FLAT PANEL: Other:	1	3	40	120
LED 3: L3: 6" LED DOWNLIGHT: Other:	1	25	16	400
LED 4: L4: 4' LED STRIP LIGHT: Other:	1	8	40	320
Total Proposed Watts =			11090	

**Interior Lighting PASSES**

**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Project Title: Rio Salado College Tower: Third Floor Remodel  
 Data filename: j:\2020\201003 MCD Rio Salado Tower 3rd Floor Remodel\Filing\3 ElectricalLighting\RIO\_SALADO\_3RDFLR\_REMODEL\_COMcheck.cck  
 Report date: 06/11/20  
 Page 1 of 6

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 2333 North Central Avenue  
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Professional Engineer License  
 53328  
 NATHAN A. SHORT  
 2/08/2021  
 ARIZONA U.S.A.  
 EXPIRES 6-30-2021

**ENERGY SYSTEMS DESIGN**  
 7135 East Camelback Road  
 Suite 275  
 Scottsdale AZ 85251  
 P: 480.481.4900  
 www.esdengineers.com  
 Design Contact: ANDY NATHAL  
 Project #: 201003

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
 Third Floor Remodel**  
 2323 W. 14th Street, Tempe, AZ 85281



**REVISIONS**

No.	Description	Date

**BIDDING SET**

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KEY:

SHEET TITLE:  
**ELECTRICAL LUMINAIRE SCHEDULE**

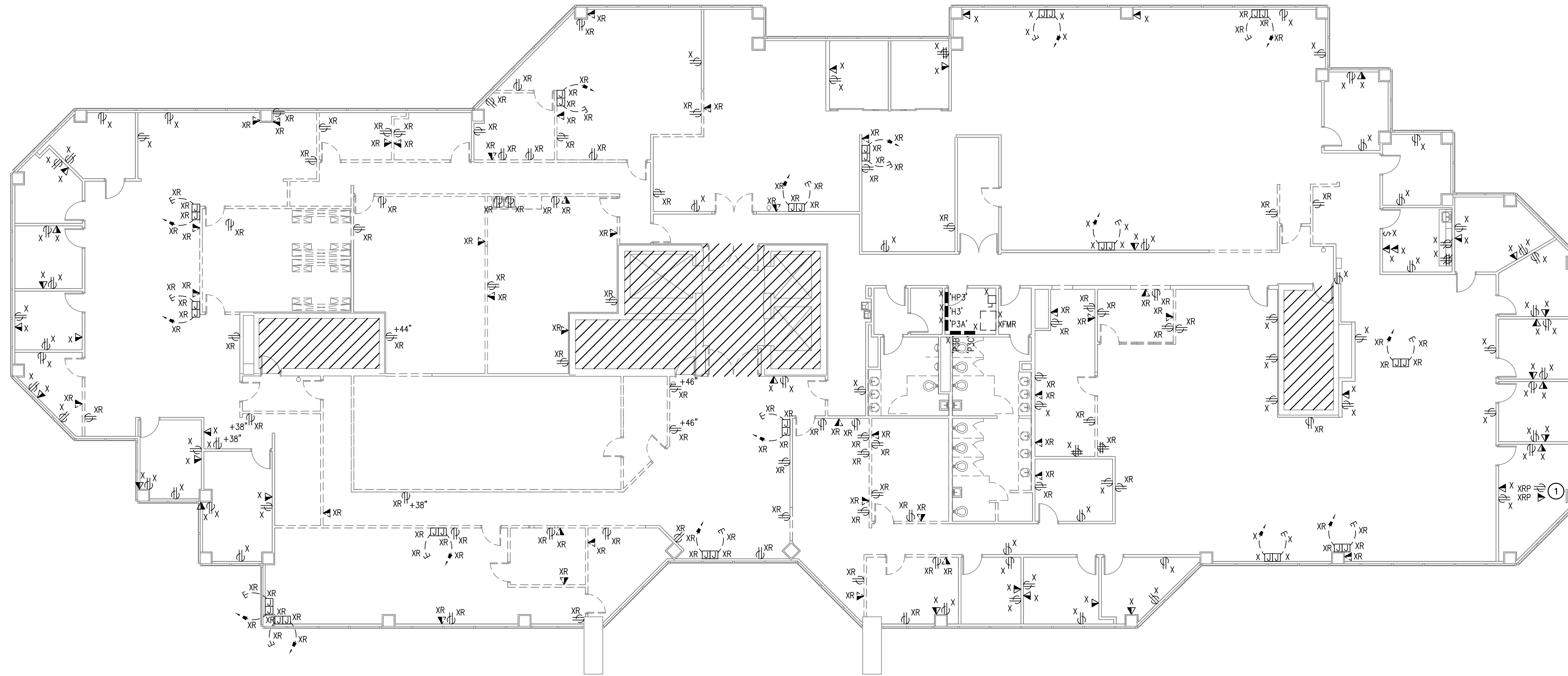
SHEET NUMBER:  
**E002**

DRAWN BY: AJN	REVIEWED BY: NAS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00

FILE: J:\2020\201003 MCCD Rio Salado Tower 3rd Floor Remodel\E100.dwg

PLOTTED BY: andynathal

PLOTTED: 02.08.2021 - 9:14am



**ELECTRICAL DEMOLITION POWER PLAN - 3RD FLOOR**

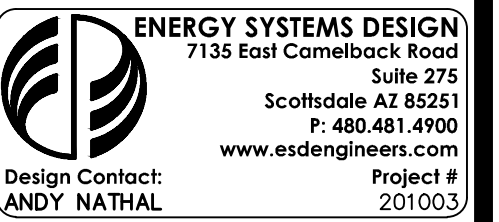
SCALE: 1"=10'-0"

**KEYED NOTES**

1. EXISTING CEILING MOUNTED PROJECTOR TO BE REPLACED WITH NEW AND RELOCATED TO NEW LOCATION. EXISTING CIRCUIT AND WIRING TO BE REUSED. SEE SHEET E101 FOR ADDITIONAL INFORMATION.

**SHEET NOTES**

- ALL ELECTRICAL DEVICES MAY NOT BE ACCOUNTED FOR DUE TO SPACE BEING OCCUPIED DURING FIELD SURVEY. ELECTRICAL DEVICES LOCATED ON IN DEMOLISHED WALLS SHALL BE REMOVED BACK TO SOURCE OR NEAREST JUNCTION BOX/DEVICE. MAINTAIN INTEGRITY OF CIRCUITING TO EXISTING DEVICES TO REMAIN, IF APPLICABLE.
- EXISTING BRANCH CIRCUITING MAY BE REUSED FOR CONNECTION TO NEW LIGHT FIXTURES IF THE CONDUCTORS ARE IN GOOD CONDITION, COPPER AND ROUTED IN EMT CONDUIT. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION.
- ALL BRANCH CIRCUITING, JUNCTION BOXES, CONDUIT, HANGERS, SUPPORTS, ETC. THAT ARE NOT BEING REUSED SHALL BE REMOVED. BRANCH CIRCUITING SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX OR BACK TO SOURCE.
- REUSE EXISTING DEVICE BACK BOXES FOR NEW DEVICES WHERE POSSIBLE. REFER TO POWER PLAN FOR ADDITIONAL INFORMATION.
- HATCHED AREA INDICATES EXISTING AREA TO REMAIN AS-IS, NOT IN PROJECT SCOPE.
- F. SALVAGE (4) EXISTING MASS NOTIFICATION ALERT BEACONS FOR REINSTALLATION. REFER TO POWER INSTALLATION PLAN FOR ADDITIONAL INFORMATION.



MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281



**REVISIONS**

No.	Description	Date

**BIDDING SET**

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KEY:

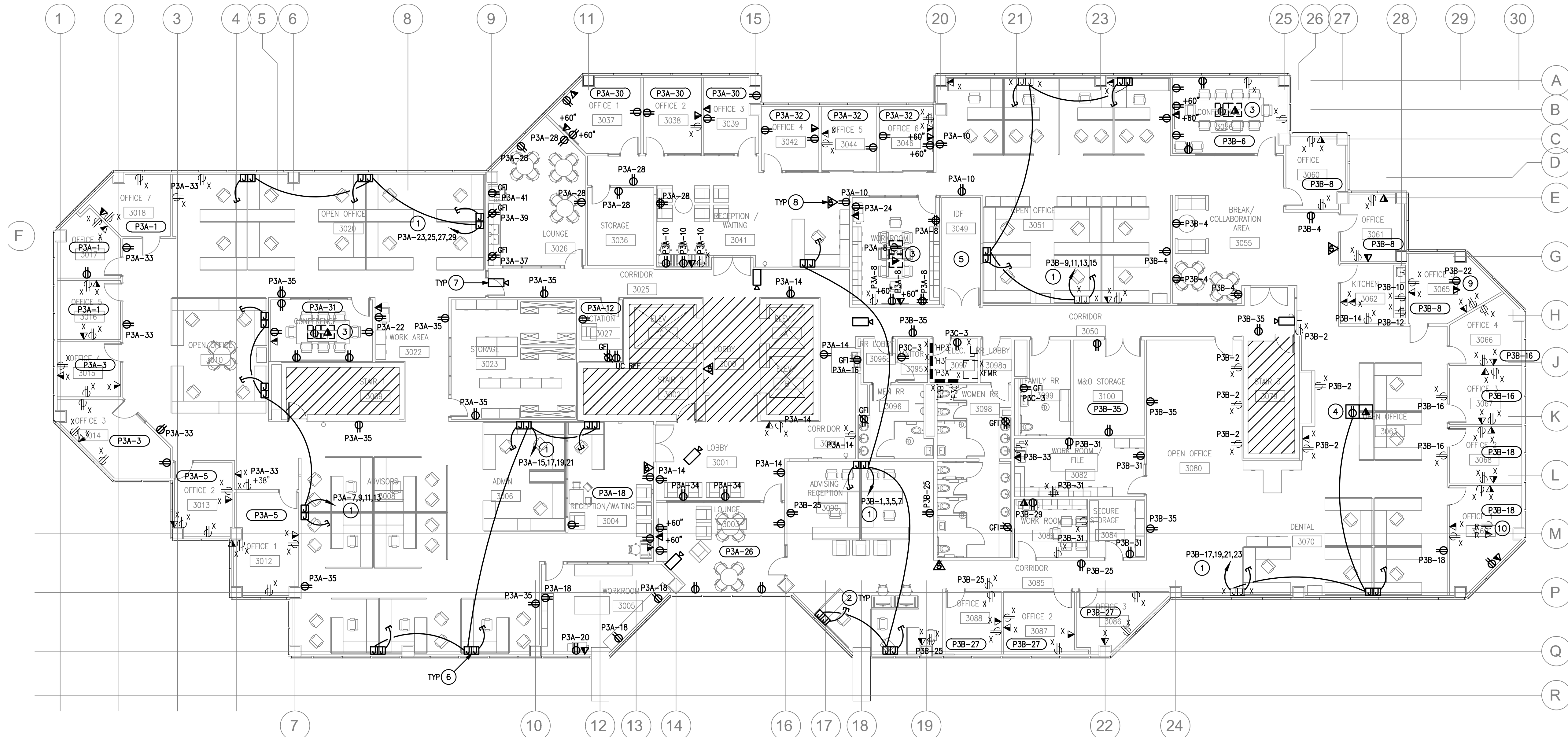
SHEET TITLE:  
**ELECTRICAL  
DEMO POWER  
PLAN - 3RD FLOOR**

SHEET NUMBER:  
**E100**

DRAWN BY: AJN	REVIEWED BY: NAS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00

FILE: J:\2020\201003 MCCD Rio Salado Tower 3rd Floor Remodel\E101.dwg

PLOTTED BY: andy.nathal  
DATE: 02.08.2021 9:07am



**ELECTRICAL NEW POWER PLAN - 3RD FLOOR**

SCALE: 1"=10'-0"

**KEYED NOTES**

- (4)#10 PHASE, (2)#10 NEUTRAL, (2)#10 GROUND, 3/4" CONDUIT.
- PROVIDE (1)1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE COMMUNICATION CABLING.
- PROVIDE MULTI-SERVICE POKE THRU DEVICE, LEGRAND 6AT EVOLUTION SERIES, OR EQUAL, WITH (1) 5-20R RECEPTACLE AND LOW VOLTAGE COMPARTMENT. PROVIDE LOW VOLTAGE DEVICES AND CABLING PER OWNERS SPECIFICATIONS. PROVIDE (1) 1-1/2" CONDUIT FROM LOW VOLTAGE COMPARTMENT TO ACCESSIBLE SPACE.
- PROVIDE MULTI-SERVICE COLUMN, LEGRAND SMALL VISTA COLUMN WITH ROUND END CHANNELS, OR EQUAL, CONFIGURED FOR POWER AND LOW VOLTAGE FURNITURE FEED.
- EXISTING ROOM TO REMAIN AS-IS. IDF ROOM ELECTRICAL DEVICES ARE SERVED FROM UPS BACKED PANELS LOCATED ON A DIFFERENT LEVEL.
- PROVIDE WALL MOUNTED JUNCTION BOXES AND FURNITURE FEED DEVICE PLATES FOR POWER AND COMMUNICATIONS CONNECTIONS TO SYSTEMS FURNITURE. COORDINATE MOUNTING LOCATION PRIOR TO ROUGH-IN. PROVIDE CONNECTION TO SYSTEMS FURNITURE PER MANUFACTURERS SPECIFICATIONS.
- LOW VOLTAGE SECURITY CAMERA. COORDINATE EXACT MOUNTING LOCATION WITH RSC SECURITY PERSONNEL PRIOR TO ROUGH-IN.
- MASS NOTIFICATION ALERT BEACON. REUSE (4) ALERT BEACONS SALVAGED FROM DEMOLITION PHASE AND PROVIDE (1) NEW. PROVIDE BACK-BOX AND CONDUIT PER RSC SECURITY PERSONNEL SPECIFICATIONS. COORDINATE MOUNTING LOCATION WITH RSC PERSONNEL PRIOR TO ROUGH-IN.
- PROVIDE CEILING MOUNTED RECEPTACLE AND DATA BACK BOX FOR NEW PROJECTOR. PROJECTOR PROVIDED BY OWNER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.
- EXISTING CEILING MOUNTED PROJECTOR RELOCATED TO NEW LOCATION. MOVE CEILING MOUNTED RECEPTACLE AND DATA BOX AND REUSE AND EXTEND EXISTING WIRING AS REQUIRED. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.

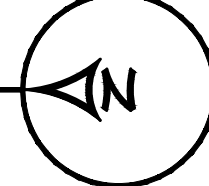
**SHEET NOTES**

- PROVIDE PLASTIC BUSHING ON STUBBED END OF ALL LOW VOLTAGE CONDUIT FOR PROTECTION OF CABLING.
- HATCHED AREA INDICATES EXISTING TO REMAIN AS-IS, NOT IN PROJECT SCOPE.
- PROVIDE (1) 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING FROM EACH COMMUNICATION DEVICE, UNLESS NOTED OTHERWISE.
- ELECTRICAL DEVICES SHOWN AS EXISTING TO REMAIN SHALL BE INSPECTED AND REPLACED IF DAMAGED OR NOTICEABLY PHYSICALLY OR FUNCTIONALLY WORN.
- THE FIRE ALARM SYSTEM IS A DEFERRED SUBMITTAL ITEM. THE FIRE ALARM CONTRACTOR SHALL PROVIDE PLANS AND REQUIRED CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARIZONA. THE DEFERRED FIRE ALARM SYSTEM SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTALS DOCUMENTS HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION

DUE TO THE LACK OF EXISTING CIRCUITING DISTRIBUTION INFORMATION THERE IS NO RELIABLE METHOD OTHER THAN CIRCUIT TRACING TO DETERMINE WHICH BRANCH CIRCUITS SERVE SPECIFIC DEVICES. EXISTING CIRCUITING MAY BE REUSED CONTINGENT ON THE FOLLOWING:

- CONDUCTORS ARE #12 COPPER (MIN)
- CONDUCTORS AND CONDUIT ARE IN SOUND, REUSABLE CONDITION
- CONDUIT RUNS ARE NOT DIAGONAL AND RUN PARALLEL/PERPENDICULAR TO BUILDING ELEMENTS AND OVERALL INSTALLATION IS IN A NEAT WORKMANLIKE MANNER.
- CIRCUITING IS MODIFIED TO SERVE DEVICES AS SPECIFIED ON PLAN
- SOURCE ELECTRICAL PANEL IS AS SPECIFIED ON PLAN
- RACEWAYS ARE PROPERLY SUPPORTED OR MODIFIED TO BE AS SUCH

ALL BRANCH CIRCUITING, JUNCTION BOXES, CONDUIT, HANGERS, SUPPORTS, ETC. THAT ARE NOT BEING REUSED SHALL BE REMOVED. BRANCH CIRCUITING SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX OR BACK TO SOURCE.



**REVISIONS**

No.	Description	Date

**BIDDING SET**

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KEY:

**ELECTRICAL  
NEW POWER  
PLAN - 3RD FLOOR**

**E101**

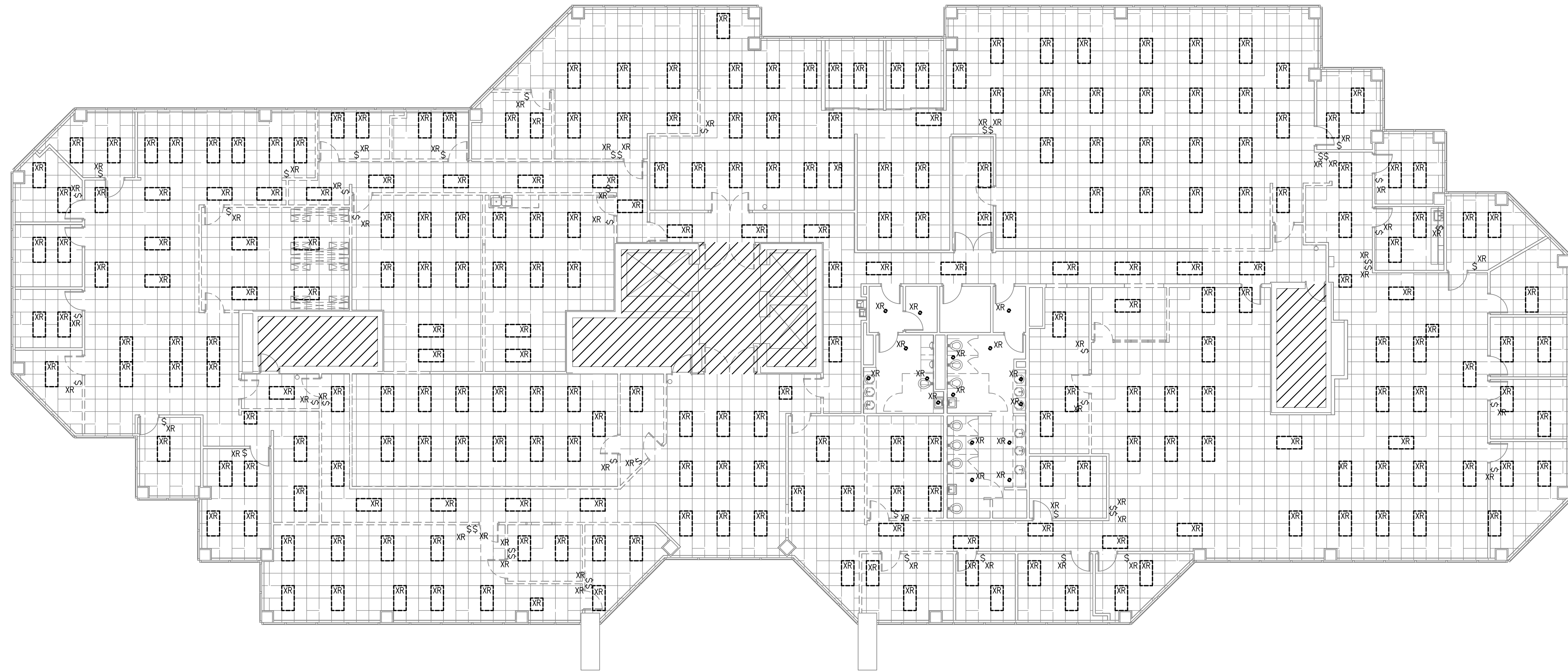
DRAWN BY: AjN	REVIEWED BY: NAS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



FILE: J:\2020\201003 MCD Rio Salado Tower 3rd Floor Remodel\E200.dwg

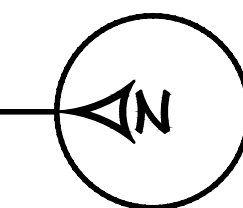
PLOTTED BY: andynathal

PLOTTED: 02.05.2021 - 11:09am



### ELECTRICAL DEMOLITION LIGHTING PLAN - 3RD FLOOR

SCALE: 1"=10'-0"



#### SHEET NOTES

- A. ALL EXISTING LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES WITHIN SCOPE OF WORK ARE TO BE DEMOLISHED.
- B. EXISTING LIGHTING BRANCH CIRCUITING MAY BE REUSED FOR CONNECTION TO NEW LIGHT FIXTURES IF THE CONDUCTORS ARE IN GOOD CONDITION, COPPER AND ROUTED IN EMT CONDUIT. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION. EXISTING LIGHTING FIXTURE WHIP CONNECTIONS MAY NOT BE REUSED.
- C. ALL BRANCH CIRCUITING, JUNCTION BOXES, CONDUIT, HANGERS, SUPPORTS, ETC. THAT ARE NOT BEING REUSED SHALL BE REMOVED. BRANCH CIRCUITING SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX OR BACK TO SOURCE.
- D. REUSE EXISTING LIGHTING CONTROL BACK BOXES FOR NEW LIGHTING CONTROL DEVICES WHERE POSSIBLE. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION.
- E. HATCHED AREA INDICATES EXISTING AREA TO REMAIN AS-IS, NOT IN PROJECT SCOPE.
- F. ALL EXIT LIGHT FIXTURES ARE TO BE REMOVED.

# DWL ARCHITECTS+

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P. 480.481.4900  
www.esdengineers.com  
Design Contact:  
ANDY NATHAL  
Project #  
201003

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281

**RIO SALADO COLLEGE**  
A MARICOPA COMMUNITY COLLEGE

#### REVISIONS

No.	Description	Date

#### BIDDING SET

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KEY:

SHEET TITLE:  
**ELECTRICAL  
DEMO LIGHTING  
PLAN - 3RD FLOOR**

SHEET NUMBER:  
**E200**

DRAWN BY: AJN	REVIEWED BY: NAS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



No.	Description	Date

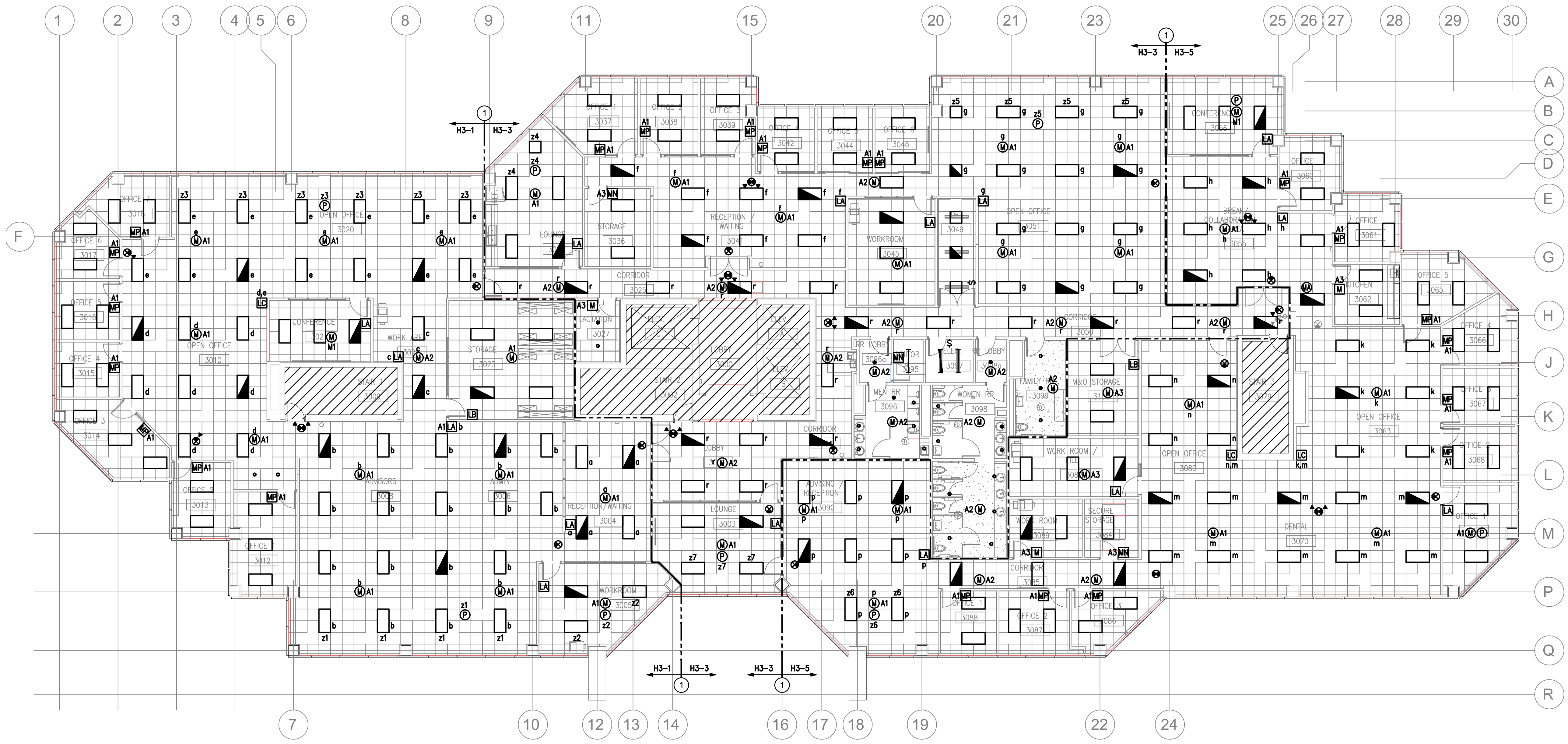
**BIDDING SET**

KEY:

SHEET TITLE:  
**ELECTRICAL  
NEW LIGHTING  
PLAN - 3RD FLOOR**

SHEET NUMBER:  
**E201**

DRAWN BY: AUN	REVIEWED BY: NAS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



**ELECTRICAL NEW LIGHTING PLAN - 3RD FLOOR**

SCALE: 1"=10'-0"

**KEYED NOTES #**

1. LINE OF DELINEATION AND SPECIFIED CIRCUITS INDICATE LIGHTING BRANCH CIRCUIT DISTRIBUTION.

DUE TO THE LACK OF EXISTING CIRCUITING DISTRIBUTION INFORMATION THERE IS NO RELIABLE METHOD OTHER THAN CIRCUIT TRACING TO DETERMINE WHICH BRANCH CIRCUITS SERVE SPECIFIC LIGHT FIXTURES. EXISTING CIRCUITING MAY BE REUSED CONTINGENT ON THE FOLLOWING:

- CONDUCTORS ARE #12 COPPER (MIN)
- CONDUITS AND CONDUIT ARE IN SOUND, REUSABLE CONDITION
- CONDUIT RUNS ARE NOT DIAGONAL AND RUN PARALLEL/PERPENDICULAR TO BUILDING ELEMENTS AND OVERALL INSTALLATION IS IN A NEAT WORKMANLIKE MANNER.
- CIRCUITING IS MODIFIED TO SERVE DEVICES AS SPECIFIED ON PLAN
- SOURCE ELECTRICAL PANEL IS AS SPECIFIED ON PLAN
- RACEWAYS ARE PROPERLY SUPPORTED OR MODIFIED TO BE AS SUCH

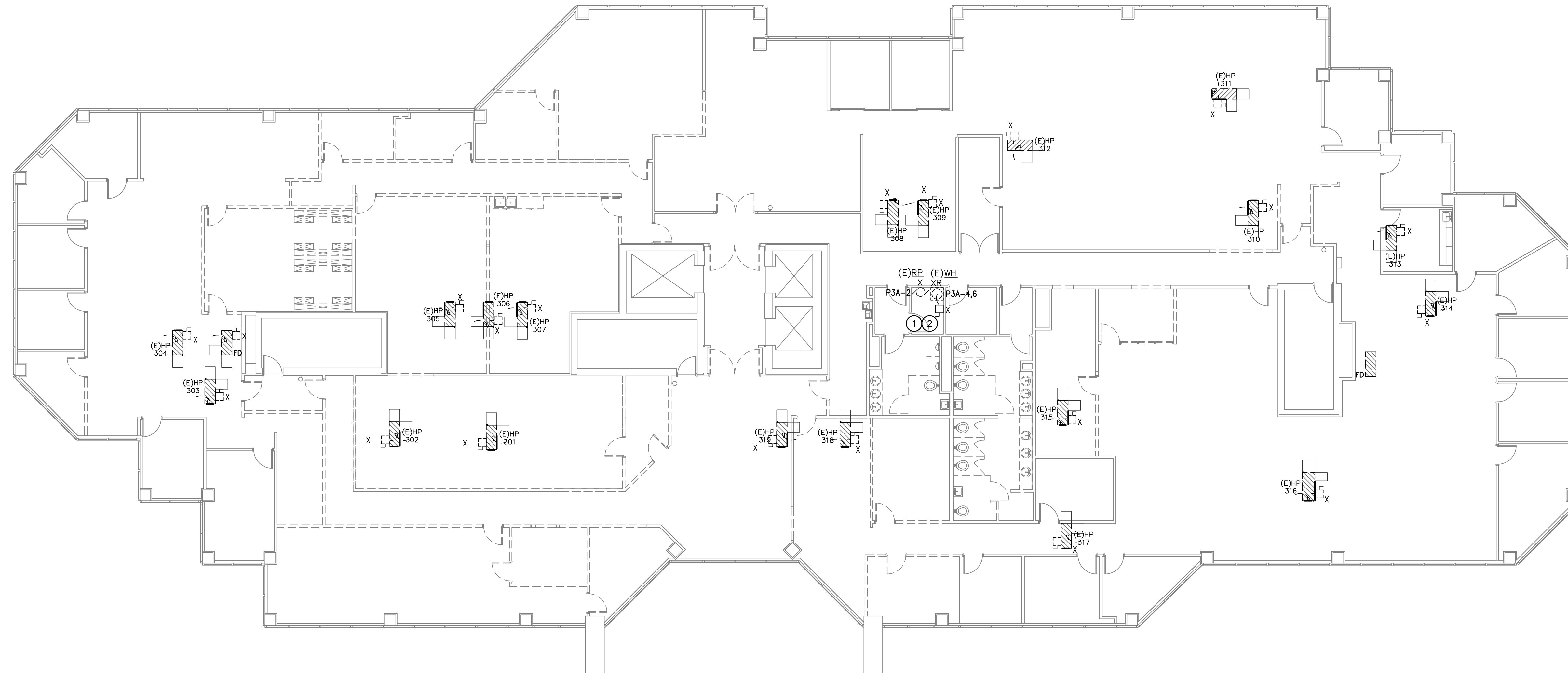
ALL BRANCH CIRCUITING, JUNCTION BOXES, CONDUIT, HANGERS, SUPPORTS, ETC. THAT ARE NOT BEING REUSED SHALL BE REMOVED. BRANCH CIRCUITING SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX OR BACK TO SOURCE.

**SHEET NOTES**

- COORDINATE LIGHTING INSTALLATION WITH ALL FIRE PROTECTION AND HVAC DEVICES PRIOR TO COMMENCING WORK.
- REFER TO LIGHTING FIXTURE FOR ADDITIONAL INFORMATION.
- HATCHED AREA INDICATES EXISTING TO REMAIN AS-IS, NOT IN PROJECT SCOPE.
- EXTEND UNSWITCHED LEG OF SPECIFIED LIGHTING CIRCUIT TO LED EMERGENCY DRIVERS AND EXIT LIGHTING FIXTURES.
- CONTRACTOR SHALL INCLUDE ALL REQUIRED LOW VOLTAGE DIMMER WIRE (VIOLET AND GRAY, CAT 5E, OR PER MANUFACTURER) FROM ALL CONTROL DEVICES THAT INCLUDE DIMMING RAISE/LOWER CONTROL AND TO THE RESPECTIVE LUMINAIRES IN THE ROOM/ZONE. -THE SAME CONDUIT AS LINE VOLTAGE WIRE MAY BE USED IF THE LOW VOLTAGE WIRE HAS THE SAME INSULATION CLASS, ALL COMPONENTS OF THE SYSTEM ARE RATED FOR CLASS 1, AND INSTALLATION IS MADE IN ACCORDANCE WITH NEC 725.48. IN A WIRELESS SYSTEM, CONTRACTOR SHALL CONNECT AND PROGRAM ALL LUMINAIRES AND CONTROL DEVICES AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
- PROVIDE SUFFICIENT RELAYS/POWER PACKS FOR INSTALLATION SHOWN.
- ALL RELAY/POWER PACKS SHALL INCLUDE INTERNAL FUSE PROTECTION TO PROTECT DEVICE SCRR WHERE LOCATED WITHIN 15' OF THE SOURCE POWER PANEL, OR ANY SITUATION WHERE AVAILABLE FAULT CURRENT AT RELAY/POWER PACK EXCEEDS 5,000.

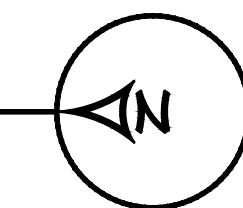
**LIGHTING FIXTURE & LIGHTING FIXTURE CONTROL LEGEND**

- |  |  |  |   |  |  |
|--|--|--|---|--|--|
|  | FIXTURE TYPE L1  |  | LOW VOLTAGE, WALL MOUNTED SWITCH CONFIGURED FOR ON/OFF/DIMMING CONTROL.   |  | LOW VOLTAGE, MULTI DETECTION TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR. CONTROL ZONES DENOTED BY LOWER CASE LETTERS, AS APPLICABLE. |
|  | FIXTURE TYPE L2  |  | LOW VOLTAGE, WALL MOUNTED SWITCH CONFIGURED FOR ON/OFF CONTROL.   |  | LOW VOLTAGE, CEILING MOUNTED PHOTOCELL FOR AUTOMATIC DAYLIGHT RESPONSIVE DIMMING CONTROL. z# DENOTES ASSOCIATED LIGHT FIXTURES.        |
|  | FIXTURE TYPE L3  |  | LOW VOLTAGE, WALL MOUNTED SWITCH CONFIGURED FOR COMMON GROUP AND INDIVIDUAL ON/OFF/DIMMING CONTROL OF ALL DESIGNATED CONTROL ZONES. CONTROL ZONES DENOTED BY LOWER CASE LETTERS ADJACENT TO CONTROL DEVICE(S) AND LIGHTING FIXTURE(S), AS APPLICABLE. |  | AUTOMATIC ON AT 50% LIGHT OUTPUT, 20 MINUTE TIMEOUT.   |
|  | FIXTURE TYPE L4  |  | LOW VOLTAGE, MULTI DETECTION TECHNOLOGY, WALL SWITCH MOUNTED OCCUPANCY SENSOR WITH MANUAL ON/OFF/DIMMING CONTROL.   |  | AUTOMATIC ON AT 100% LIGHT OUTPUT, 20 MINUTE DELAY.  |
|  | ALL EXIT LIGHT FIXTURES ARE TYPE X   |  | LOW VOLTAGE, MULTI DETECTION TECHNOLOGY, WALL SWITCH MOUNTED OCCUPANCY SENSOR WITH MANUAL ON/OFF CONTROL.   |  | AUTOMATIC ON AT 50% LIGHT OUTPUT, 10 MINUTE TIMEOUT.   |
|  | 1/2 SHADING INDICATES FIXTURE IS EQUIPPED WITH LED EMERGENCY DRIVER. PROVIDE MAX LUMEN RATING BATTERY THAT IS COMPATIBLE WITH LIGHT FIXTURE, UNLESS NOTED OTHERWISE. |  | LOW VOLTAGE, MULTI DETECTION TECHNOLOGY, WALL SWITCH MOUNTED OCCUPANCY SENSOR WITH MANUAL ON/OFF/DIMMING CONTROL AND INTEGRAL PHOTOCELL FOR AUTOMATIC DAYLIGHT RESPONSIVE DIMMING CONTROL.  |  | MANUAL ON, AUTOMATIC OFF, 20 MINUTE DELAY  |



**ELECTRICAL DEMOLITION HVAC PLAN - 3RD FLOOR**

SCALE: 1"=10'-0"



**KEYED NOTES**

- EXISTING WATER HEATER TIME SWITCH, HOT WATER RECIRC PUMP AND ALL ASSOCIATED ELECTRICAL DEVICES AND BRANCH CIRCUITING FOR EXISTING WATER HEATER TO REMAIN.
- EXISTING WATER HEATER TO BE REMOVED AND REPLACED WITH NEW WATER HEATER OF EQUIVALENT ELECTRICAL CHARACTERISTICS. ALL EXISTING ELECTRICAL INFRASTRUCTURE SERVING WATER HEATER TO BE REUSED.

**SHEET NOTES**

- EXISTING BRANCH CIRCUITING MAY BE REUSED FOR CONNECTION TO NEW EQUIPMENT IF THE CONDUCTORS ARE IN GOOD CONDITION, COPPER AND ROUTED IN EMT CONDUIT. REFER TO POWER PLAN FOR ADDITIONAL INFORMATION.
- ALL BRANCH CIRCUITING, JUNCTION BOXES, CONDUIT, HANGERS, SUPPORTS, ETC. THAT ARE NOT BEING REUSED SHALL BE REMOVED. BRANCH CIRCUITING SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX OR BACK TO SOURCE.

MARICOPA COMMUNITY COLLEGES  
**RIO SALADO COLLEGE TOWER:  
Third Floor Remodel**  
2323 W. 14th Street, Tempe, AZ 85281



**REVISIONS**

No.	Description	Date

**BIDDING SET**

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KEY:

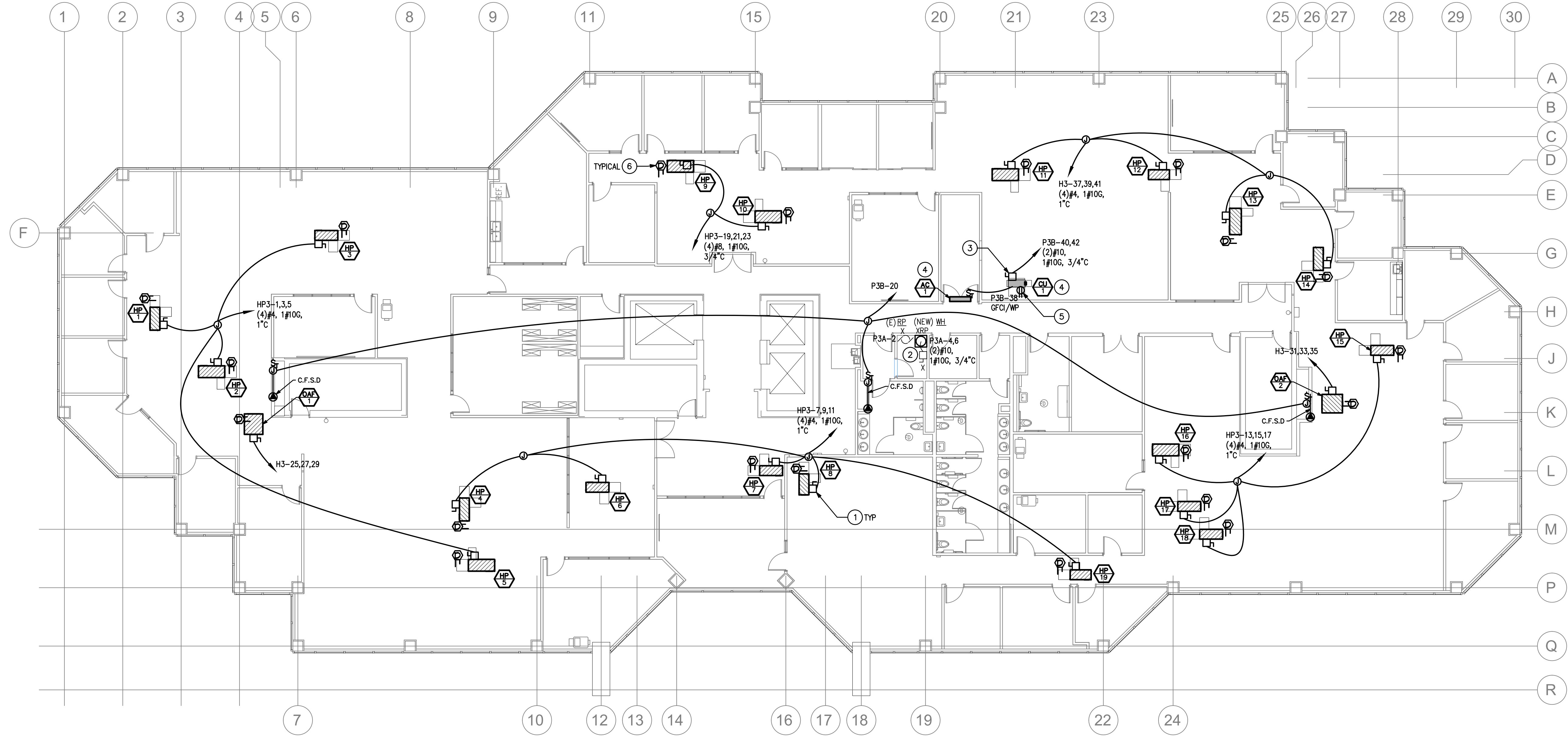
SHEET TITLE:  
**ELECTRICAL  
DEMO HVAC PLAN  
3RD - FLOOR**

SHEET NUMBER:  
**E300**

DRAWN BY: AJN	REVIEWED BY: NAS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00

FILE: J:\2020\201003 MCD Rio Salado Tower 3rd Floor Remodel\E301.dwg

PLOTTED BY: andynathal  
 PLOTTED: 02.05.2021 11:11:00am



**ELECTRICAL NEW M&P EQUIPMENT POWER PLAN - 3RD FLOOR**

SCALE: 1"=10'-0"

**KEYED NOTES**

1. PROVIDE 30A/600V/3P/HD/NEMA-1 FUSED DISCONNECT SWITCH WITH RK1 FUSES. FUSE AMPACITY PER EQUIPMENT MANUFACTURERS NAMEPLATE SPECIFICATIONS.
2. EXISTING WATER HEATER TO BE REPLACED WITH NEW WATER HEATER OF EQUIVALENT ELECTRICAL CHARACTERISTICS. ALL EXISTING ELECTRICAL INFRASTRUCTURE SERVING WATER HEATER TO BE REUSED IF SIZED AS SPECIFIED. PROVIDE NEW IF REQUIRED.
3. PROVIDE 30A/250V/3P/HD/NEMA-3R FUSED DISCONNECT SWITCH WITH RK1 FUSES. FUSE AMPACITY PER EQUIPMENT MANUFACTURERS NAMEPLATE SPECIFICATIONS.
4. OUTDOOR UNIT, CU-1, LOCATED ON ROOF. INDOOR UNIT, AC-1, IS POWERED FROM OUTDOOR UNIT. PROVIDE CIRCUITING FROM CU-1 TO AC-1 PER EQUIPMENT MANUFACTURERS SPECIFICATIONS. PROVIDE MEANS OF DISCONNECT AS INDICATED.
5. ROOF TOP SERVICE RECEPTACLE MAY BE ELIMINATED IF AN EXISTING ROOF TOP SERVICE RECEPTACLE IS LOCATED WITHIN 25' OF CU-1.
6. DUCT SMOKE DETECTOR PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT VOLTAGE AND WIRING REQUIREMENTS WITH FIRE ALARM CONTRACTOR/VENDOR.

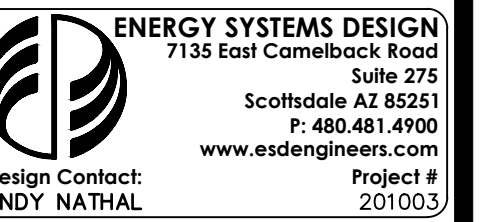
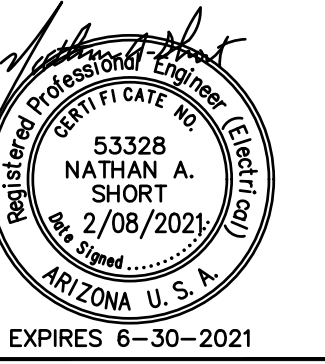
**SHEET NOTES**

- A. COORDINATE INSTALLATION WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO COMMENCING WORK.

EXISTING CIRCUITING MAY BE REUSED CONTINGENT ON THE FOLLOWING:

- CONDUCTORS ARE COPPER AND SIZE IS AS SPECIFIED
- CONDUCTORS AND CONDUIT ARE IN SOUND, REUSABLE CONDITION
- CONDUIT RUNS ARE NOT DIAGONAL AND RUN PARALLEL/PERPENDICULAR TO BUILDING ELEMENTS AND OVERALL INSTALLATION IS IN A NEAT WORKMANLIKE MANNER.
- CIRCUITING IS MODIFIED TO SERVE EQUIPMENT AS SPECIFIED ON PLAN
- SOURCE ELECTRICAL PANEL IS AS SPECIFIED ON PLAN
- RACEWAYS ARE PROPERLY SUPPORTED OR MODIFIED TO BE AS SUCH

ALL BRANCH CIRCUITING, JUNCTION BOXES, CONDUIT, HANGERS, SUPPORTS, ETC. THAT ARE NOT BEING REUSED SHALL BE REMOVED. BRANCH CIRCUITING SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX OR BACK TO SOURCE.



**REVISIONS**

No.	Description	Date

**BIDDING SET**

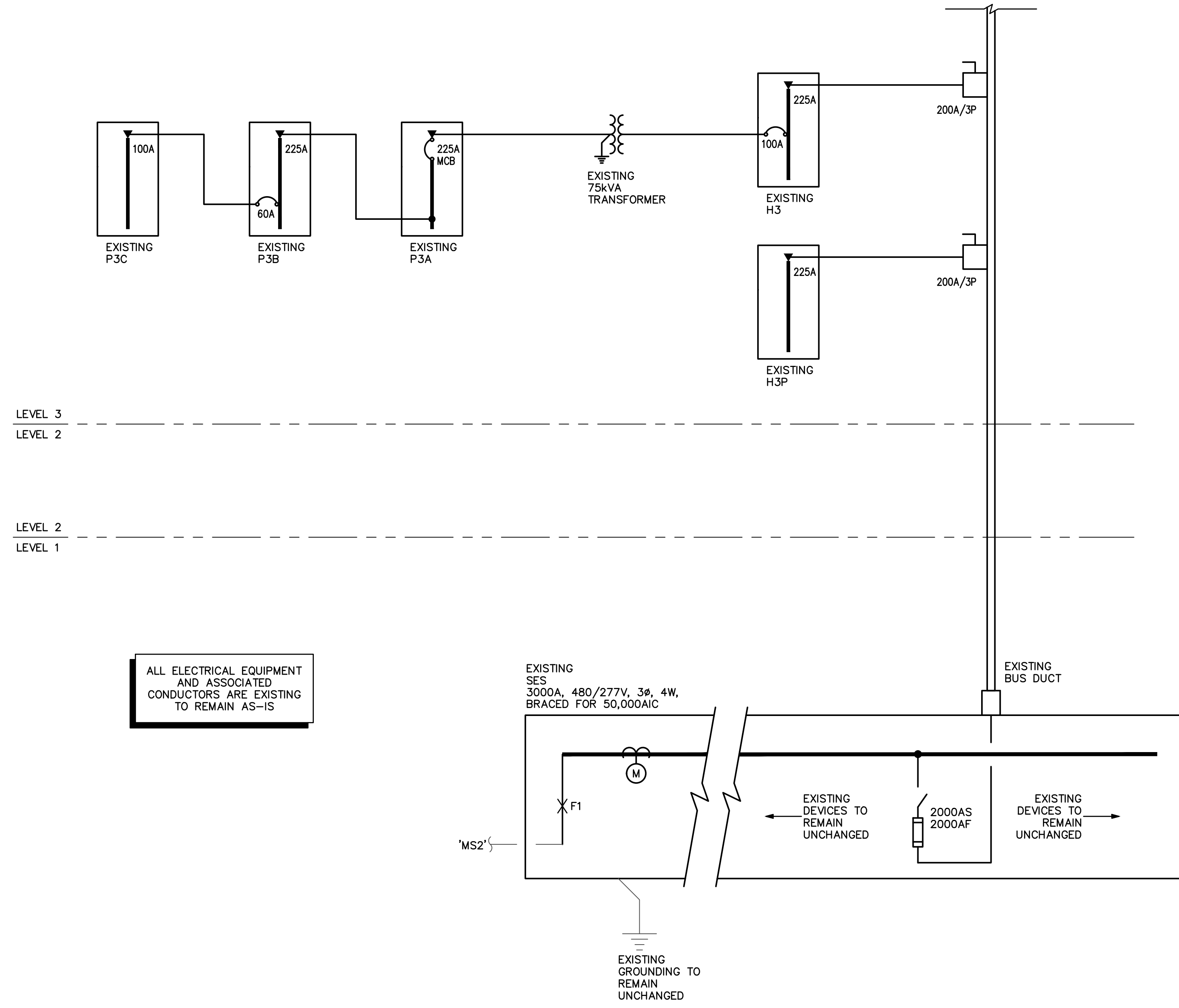
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KEY:

SHEET TITLE:  
**ELECTRICAL  
 NEW M&P EQUIP  
 POWER PLAN  
 3RD - FLOOR**

SHEET NUMBER:  
**E301**

DRAWN BY: AJN	REVIEWED BY: NAS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00



**PARTIAL ONE-LINE DIAGRAM**  
SCALE: NTS

**Short-Circuit Calculations**  
The following calculations are based on the "Point-by-Point" method where:  
 $I_{sc} = I_{sc} \times M$        $M = 1/(1+f)$        $f = \frac{1.732 \times L \times I}{C \times E}$       XFMR:  $IP(sca) = \frac{IP(sca) \times V_p \times \%Z}{100,000 \times KVA}$        $IS(sca) = \frac{V_p \times M \times IS(sca)}{Vs}$

SOURCE VALUE DERIVED FROM SRP FAULT TABLE

Fault Point	Panel Transformer	Source (Fault Point)	Source I (amps)	Conduit Type	Wire/Bus Size	Wire/Bus Type	'C' value	E (volts)	L (length)	X'FMR KVA	X'FMR Z	f	M	Isc
1	SES													43490
2	BUS DUCT	1	43490	M	1 Set(s) of 2000 A BUS	CU	142900	480	75			0.082	0.92	40181
3	HP3	2	40181	M	1 Set(s) of 3/0	CU	12843	480	15			0.169	0.86	34362
4	H3	2	40181	M	1 Set(s) of 3/0	CU	12843	480	12			0.135	0.88	35387
5	XFMR PRI	4	35387	M	1 Set(s) of 2	CU	5906	480	6			0.130	0.89	31324
6	XFMR SEC	5	31324		Set(s) of	CU	#N/A	208		75	4.5	15.607	0.06	4353

**SES LOAD CALCULATION**

BUILDING SERVICE LOAD CALCULATION		amps @480v
EXISTING 12 MONTH MAX DEMAND FROM UTILITY COMPANY (SRP METER 2367073)		
EXISTING SES 657 kW/ 8PF=	821.25 kVA @ 125 % =	1026.56 kVA = 1235 amps
REMOVED GENERAL POWER LOAD 3 va * 20235 SQ FT	=	60.71 kVA 73 amps
REMOVED HVAC EQUIPMENT LOAD CALCULATED AT 50% OF EXISTING OCPD RATING	=	105.92 kVA 127 amps
REMOVED LIGHTING LOAD (246) 2x4', 3 LAMP T8	=	23.62 kVA 28 amps
ADDED LOAD PANEL H3	=	129.47 kVA 156 amps
ADDED LOAD PANEL HP3	=	157.73 kVA 190 amps
<b>Total</b>	<b>1123.52 kVA</b>	<b>1352 amps @ 480v/3ph</b>



**REVISIONS**

No.	Description	Date

**BIDDING SET**

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KEY:

SHEET TITLE:  
**ELECTRICAL ONE-LINE DIAGRAM**

SHEET NUMBER:  
**E400**

DRAWN BY: AJN	REVIEWED BY: NAS
DATE: 02/08/2021	PROJECT NUMBER: 1831.00

