



OUTAGAMIE COUNTY ATW ADMIN CONFERENCE ROOM

*W6390 Challenger Drive, Suite 201
Appleton, WI 54914*

March 18, 2026

Refer to ATW Terminal Outbound Baggage and Ticketing Project Manual for specifications not otherwise covered in these documents.

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**Mead
& Hunt**

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 05/23/25

DRN By: MAB

CKD By: MJM

Drawing
Reference
Sheet No.:

COVER SHEET

G-0.1

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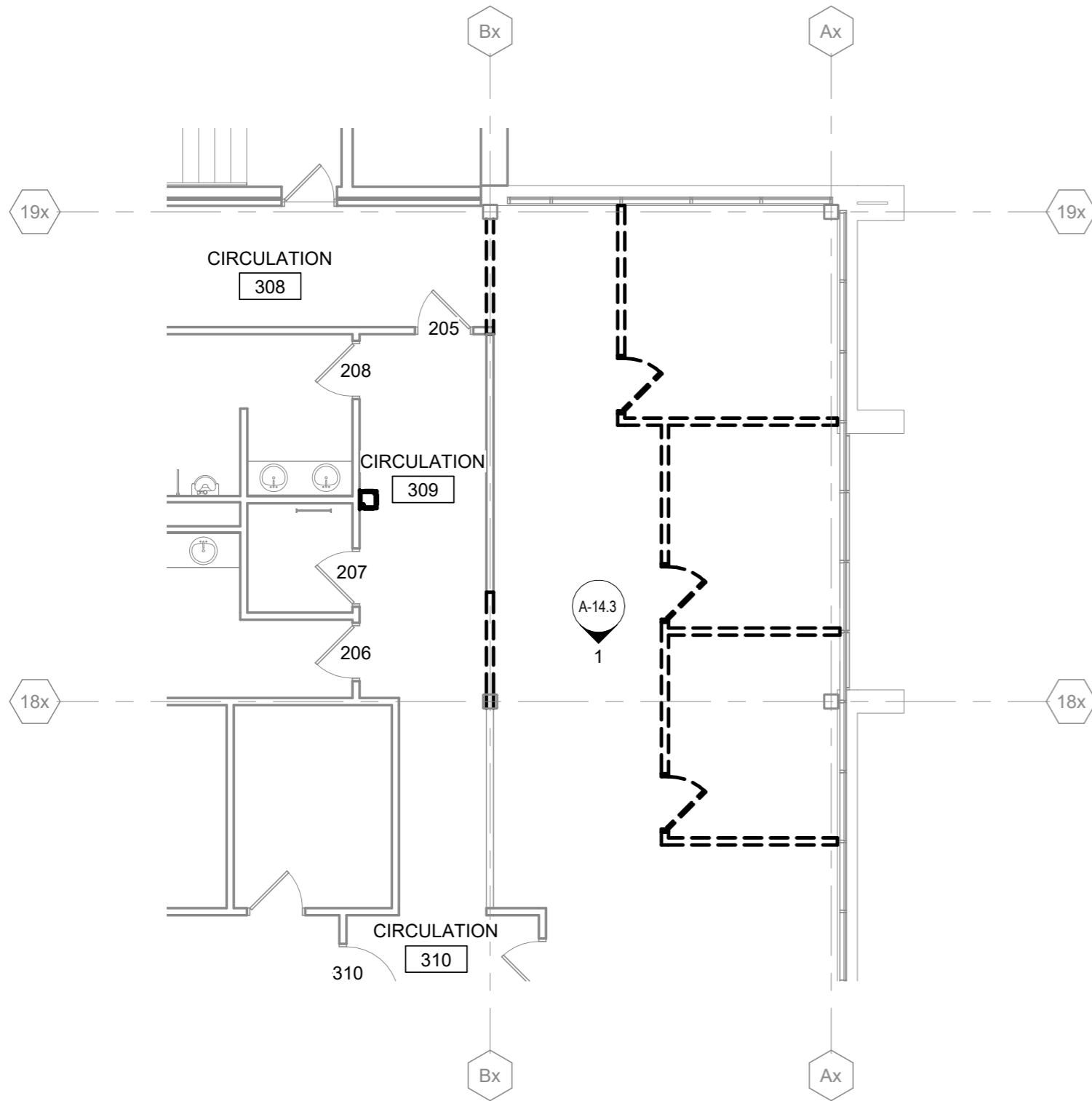
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SHEET INDEX

G-0.2

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SECOND FLOOR DEMOLITION PLAN AREA D - ADMIN CONFERENCE ROOM

1
1/8" = 1'-0"

DEMOLITION PLAN GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY BUILDING AND SITE CONDITIONS AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH SCHEDULED DEMOLITION WORK.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING WORK AND SUBCONTRACTORS, FOR DEMOLITION AND REPAIR WORK.
3. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE THE REMOVAL OF ITEMS WHICH INTERFERE WITH THE FINAL CONSTRUCTION AS SHOWN ON THE FLOOR PLANS, ELEVATIONS, DETAILS, AND SCHEDULES. FLOOR FINISHES, BASE, ABANDONED FURNITURE, WINDOW TREATMENTS, SHELVING, SIGNAGE, AND ROOFING MATERIALS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
4. REMOVE ITEMS OF DEMOLITION WORK FROM THE PROJECT DAILY AND DISPOSE OF PROPERLY.
5. EXISTING CONCRETE AND STEEL STRUCTURE TO REMAIN, TYP. PROTECT COLUMNS, PILASTERS, BEAMS, AND SLABS.
6. THE EXISTING MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING ITEMS AND/OR SYSTEMS, AND GAS, WATER AND ELECTRICAL METERS ARE GENERALLY INTENDED TO REMAIN. WHERE WORK CONFLICTS WITH NEW WORK, DEMOLITION OR REROUTING OF EXISTING INFRASTRUCTURE SHALL BE REQUIRED.
7. DEMOLISH CONCRETE FLOOR SLABS AS REQUIRED TO INSTALL NEW EQUIPMENT, UNDERGROUND CONDUIT, PLUMBING SYSTEMS, AND FLOOR DRAINS, REF: STRUCTURAL, EQUIPMENT, ELECTRICAL, PLUMBING DEMOLITION, AND PLUMBING DRAWINGS.
8. PROTECT EXISTING SURFACES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
9. REPAIR OR REPLACE EXISTING CONSTRUCTION (WINDOWS, WALLS, DOORS, CEILINGS, FLOORS, ETC.) TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT MATERIAL SHALL MATCH IN KIND.
10. COORDINATE WITH OWNER-CONTRACTED ASBESTOS ABATEMENT CONTRACTOR FOR REMOVAL OF SEALANTS CONTAINING ASBESTOS.

DEMOLITION LEGEND:

-  EXISTING CONSTRUCTION TO REMAIN
-  EXISTING CONSTRUCTION TO BE DEMOLISHED, TYP (U.N.O.)
-  EXISTING DOOR TO REMAIN
-  DOOR, FRAME, AND HARDWARE TO BE DEMOLISHED COMPLETE, TYP (U.N.O.)

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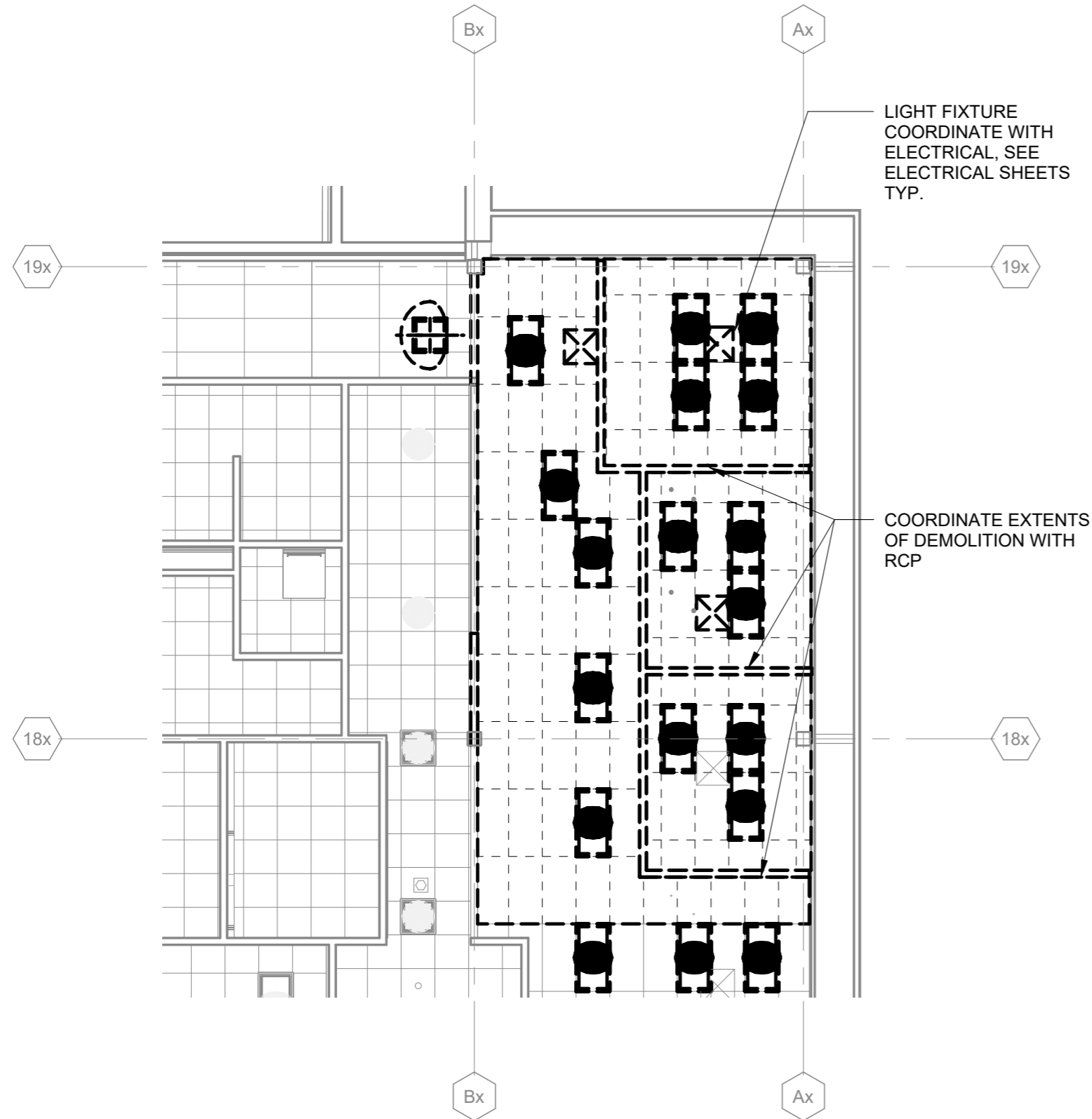
Drawing Reference Sheet No.:

SECOND FLOOR DEMOLITION PLAN

AD-10.1

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SECOND FLOOR CEILING DEMOLITION PLAN AREA D - ADMIN CONFERENCE ROOM

1 1/8" = 1'-0"

DEMOLITION PLAN GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY BUILDING AND SITE CONDITIONS AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH SCHEDULED DEMOLITION WORK.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING WORK AND SUBCONTRACTORS, FOR DEMOLITION AND REPAIR WORK.
3. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE THE REMOVAL OF ITEMS WHICH INTERFERE WITH THE FINAL CONSTRUCTION AS SHOWN ON THE FLOOR PLANS, ELEVATIONS, DETAILS, AND SCHEDULES. FLOOR FINISHES, BASE, ABANDONED FURNITURE, WINDOW TREATMENTS, SHELVING, SIGNAGE, AND ROOFING MATERIALS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
4. REMOVE ITEMS OF DEMOLITION WORK FROM THE PROJECT DAILY AND DISPOSE OF PROPERLY.
5. EXISTING CONCRETE AND STEEL STRUCTURE TO REMAIN, TYP. PROTECT COLUMNS, PILASTERS, BEAMS, AND SLABS.
6. THE EXISTING MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING ITEMS AND/OR SYSTEMS, AND GAS, WATER AND ELECTRICAL METERS ARE GENERALLY INTENDED TO REMAIN. WHERE WORK CONFLICTS WITH NEW WORK, DEMOLITION OR REROUTING OF EXISTING INFRASTRUCTURE SHALL BE REQUIRED.
7. DEMOLISH CONCRETE FLOOR SLABS AS REQUIRED TO INSTALL NEW EQUIPMENT, UNDERGROUND CONDUIT, PLUMBING SYSTEMS, AND FLOOR DRAINS, REF: STRUCTURAL, EQUIPMENT, ELECTRICAL, PLUMBING DEMOLITION, AND PLUMBING DRAWINGS.
8. PROTECT EXISTING SURFACES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
9. REPAIR OR REPLACE EXISTING CONSTRUCTION (WINDOWS, WALLS, DOORS, CEILINGS, FLOORS, ETC.) TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT MATERIAL SHALL MATCH IN KIND.
10. COORDINATE WITH OWNER-CONTRACTED ASBESTOS ABATEMENT CONTRACTOR FOR REMOVAL OF SEALANTS CONTAINING ASBESTOS.

DEMOLITION LEGEND:

-  EXISTING CONSTRUCTION TO REMAIN
-  EXISTING CONSTRUCTION TO BE DEMOLISHED, TYP (U.N.O.)
-  EXISTING DOOR TO REMAIN
-  DOOR, FRAME, AND HARDWARE TO BE DEMOLISHED COMPLETE, TYP (U.N.O.)

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SECOND FLOOR DEMOLITION CEILING PLAN

AD-12.1

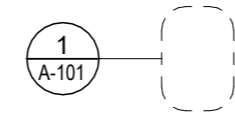
Mead & Hunt


LEGEND - PLAN SYMBOLS


 BUILDING SECTION SYMBOL

 WALL SECTION SYMBOL

 DETAIL SYMBOL

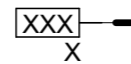
 ENLARGED PLAN SYMBOL

 EXTERIOR ELEVATION SYMBOL

 INTERIOR ELEVATION SYMBOL

 KEYED NOTE IDENTIFICATION


ROOM NAME
 ROOM NAME AND NUMBER


 WALL TYPE IDENTIFICATION

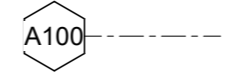
 WINDOW IDENTIFICATION

 DOOR IDENTIFICATION

F.E.  FIRE EXTINGUISHER - SURFACE MOUNT

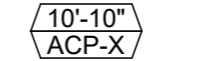
F.E.C.  FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - SEMI-RECESSED

FD  FLOOR DRAIN

 EXISTING GRID LINES

 NEW GRID LINES

 LEVEL OR SPOT ELEVATIONS


 CEILING HEIGHT & FINISH

CONSTRUCTION

 EXISTING CONSTRUCTION TO REMAIN

 EXISTING CONSTRUCTION TO BE DEMOLISHED

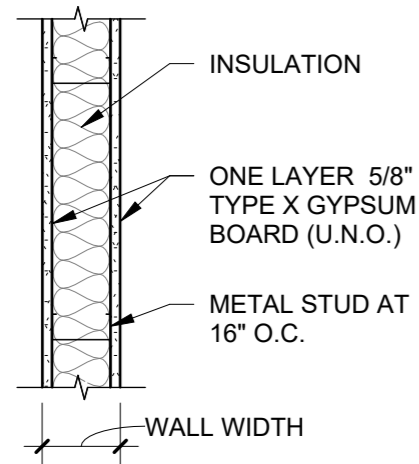
 NEW CONSTRUCTION WORK

 EXISTING DOOR TO REMAIN

 EXISTING DOOR TO BE DEMOLISHED

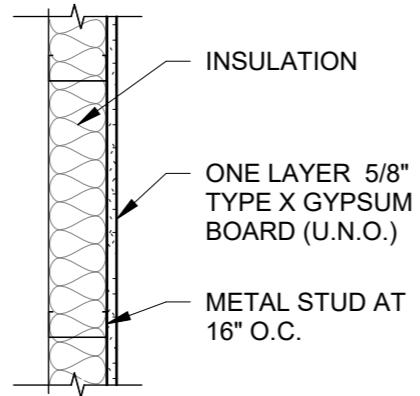
 NEW DOOR

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"SA" SERIES

PTN TYPE	STUD WIDTH	WALL WIDTH	NOTES
SA3	3 5/8"	4 7/8"	

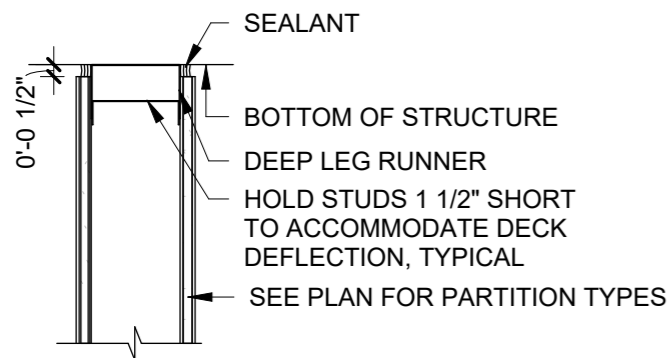


"FC" SERIES

PTN TYPE	STUD WIDTH	WALL WIDTH	NOTES
FC3	3 5/8"	4 1/4"	

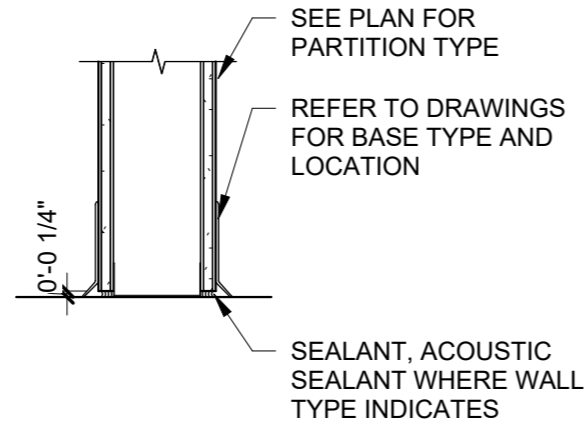
PARTITION TYPES

NO SCALE



3 PARTITION HEAD

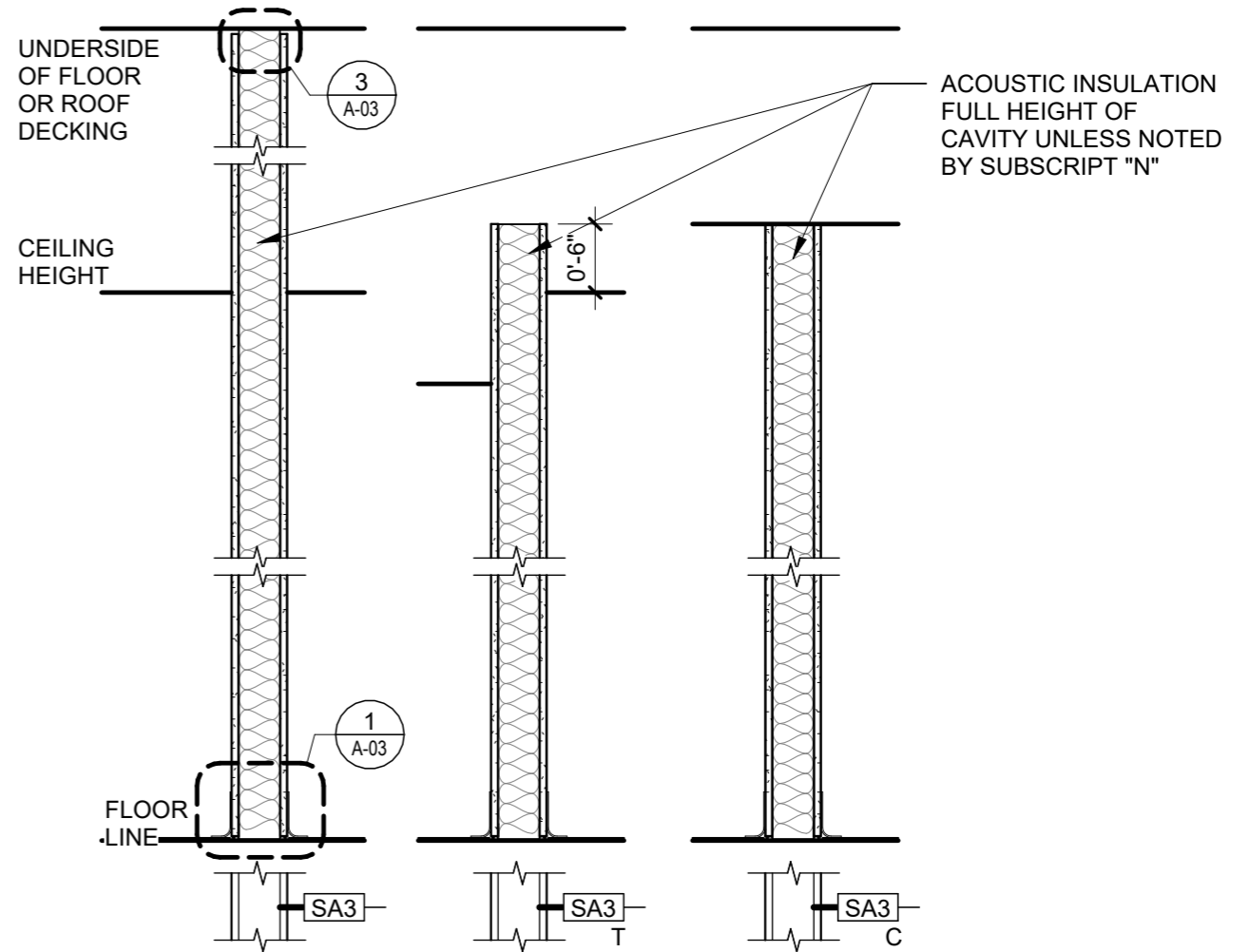
1 1/2" = 1'-0"



1 GYP WALL BASE

1 1/2" = 1'-0"

PARTITION TYPE SYMBOL AND SUBSCRIPT DEFINITIONS:



NO SUBSCRIPT

EXTEND TOTAL PARTITION TO STRUCTURE

SUBSCRIPT (T)

EXTEND TOTAL PARTITION TO 6" ABOVE ADJC. CEILING (BRACE AS NECESSARY)

SUBSCRIPT (C)

EXTEND TOTAL PARTITION TO CEILING (BRACE AS NECESSARY)

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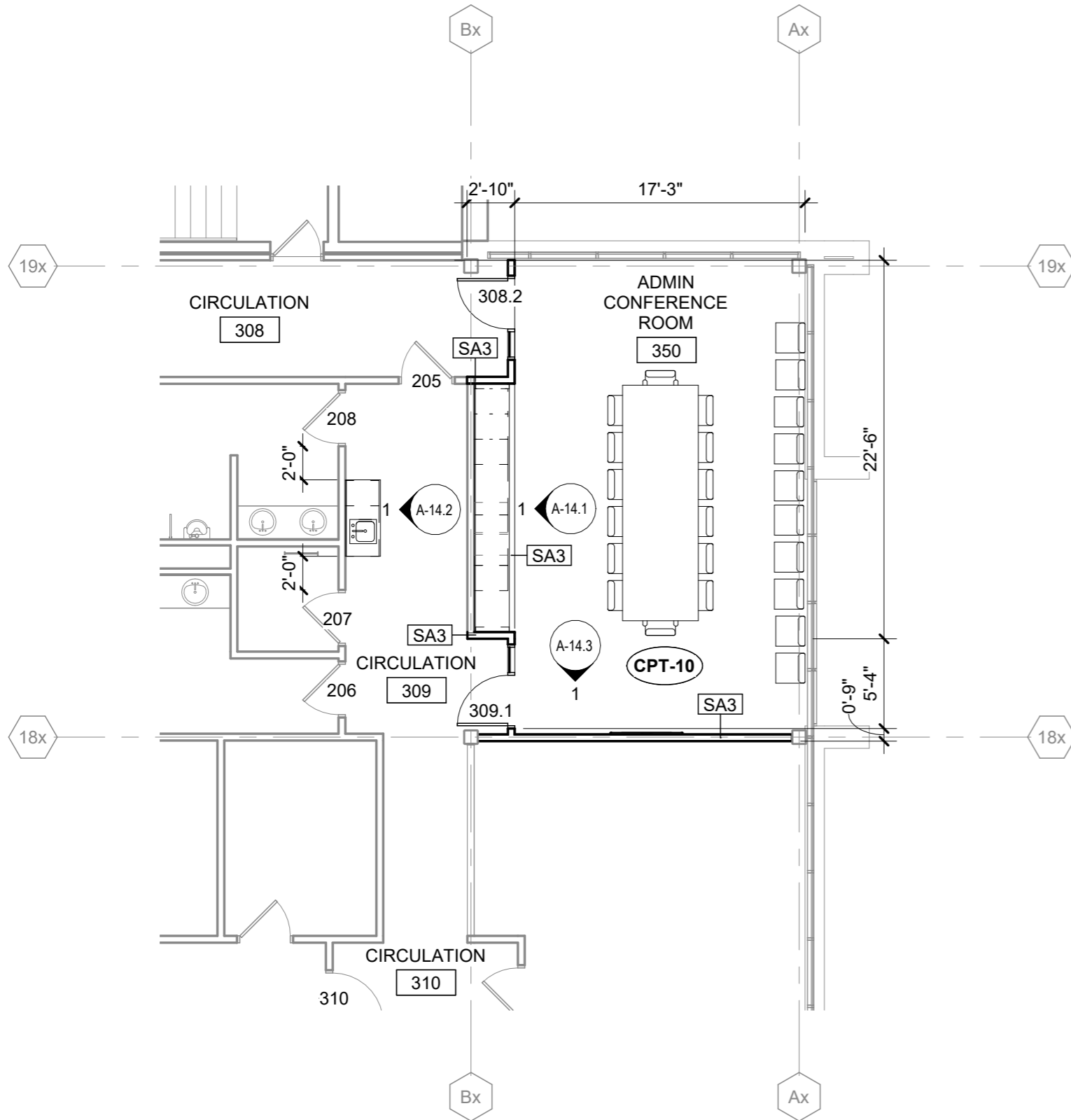
CKD By: -

Drawing Reference Sheet No.:

INTERIOR PARTITIONS

A-03.1

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FLOOR PLAN GENERAL NOTES:

1. FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
2. GENERAL CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONSTRUCTION AS REQUIRED FOR PROJECT COMPLETION. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH EXISTING ADJACENT MATERIAL.
3. GENERAL CONTRACTOR SHALL PATCH FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. PENETRATIONS SHALL MEET REQUIRED FIRE RATINGS.
4. COORDINATE THE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECIFICATIONS, AND INTERIOR ELEVATIONS FOR EQUIPMENT DETAILS AND INSTALLATION REQUIREMENTS.
5. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY SELECTIVE DEMOLITION REQUIRED FOR THE PROPER INSTALLATION OF CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND EQUIPMENT.
6. EXISTING AND INFILL CONCRETE SUB-FLOOR SHALL BE MADE LEVEL, PLUMB AND IN SOUND CONDITION AS REQUIRED FOR THE INSTALLATION OF FINAL FLOOR FINISHES, TYPICAL.

SECOND FLOOR PLAN AREA D - ADMIN CONFERENCE ROOM

1
1/8" = 1'-0"

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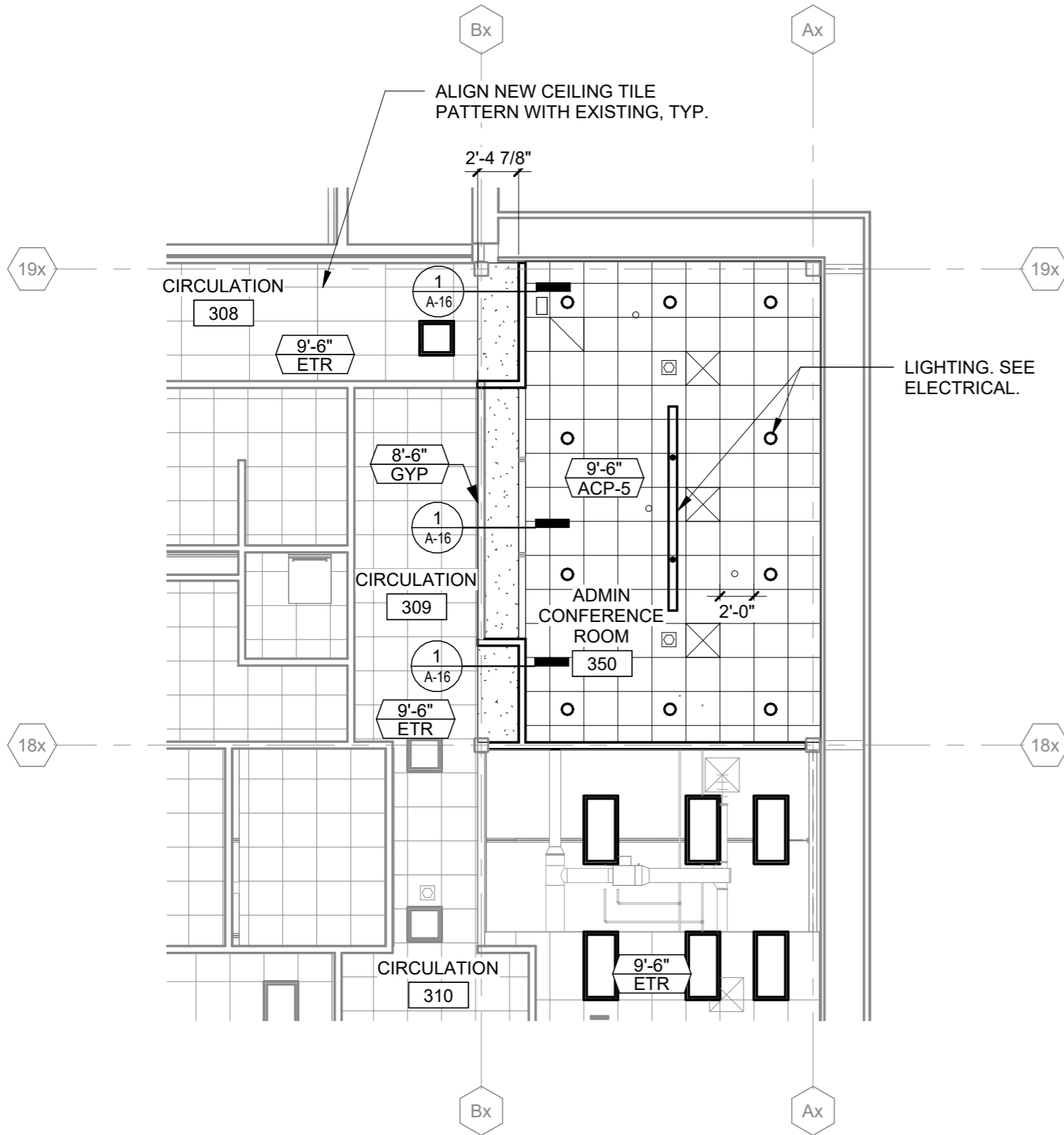
Drawing
Reference
Sheet No.:

SECOND FLOOR PLAN

A-10.1

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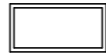
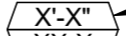
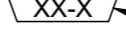


CEILING PLAN GENERAL NOTES:

1. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT FOR FINAL DECISION.
2. ALL RECESSED LIGHTS, SPRINKLERS, FIRE DETECTION EQUIPMENT, OCCUPANCY SENSORS, ETC. SHALL BE CENTERED IN THE TILES UNLESS NOTED OTHERWISE.

CEILING PLAN LEGEND:

SEE ELECTRICAL FOR EXACT FIXTURE MODEL

-  2' x 4' SUSPENDED CEILING GRID
 -  2' x 2' SUSPENDED CEILING GRID
 -  GYPSUM BOARD CEILING/
PORTLAND CEMENT PLASTER (PAINTED)
 -  LIGHT FIXTURE (SEE ELECTRICAL)
- CEILING TYPE TAG**
-  ELEVATION ABOVE FINISHED FLOOR
 -  CEILING TYPE

SECOND FLOOR CEILING PLAN AREA D - ADMIN CONFERENCE ROOM

1 1/8" = 1'-0"

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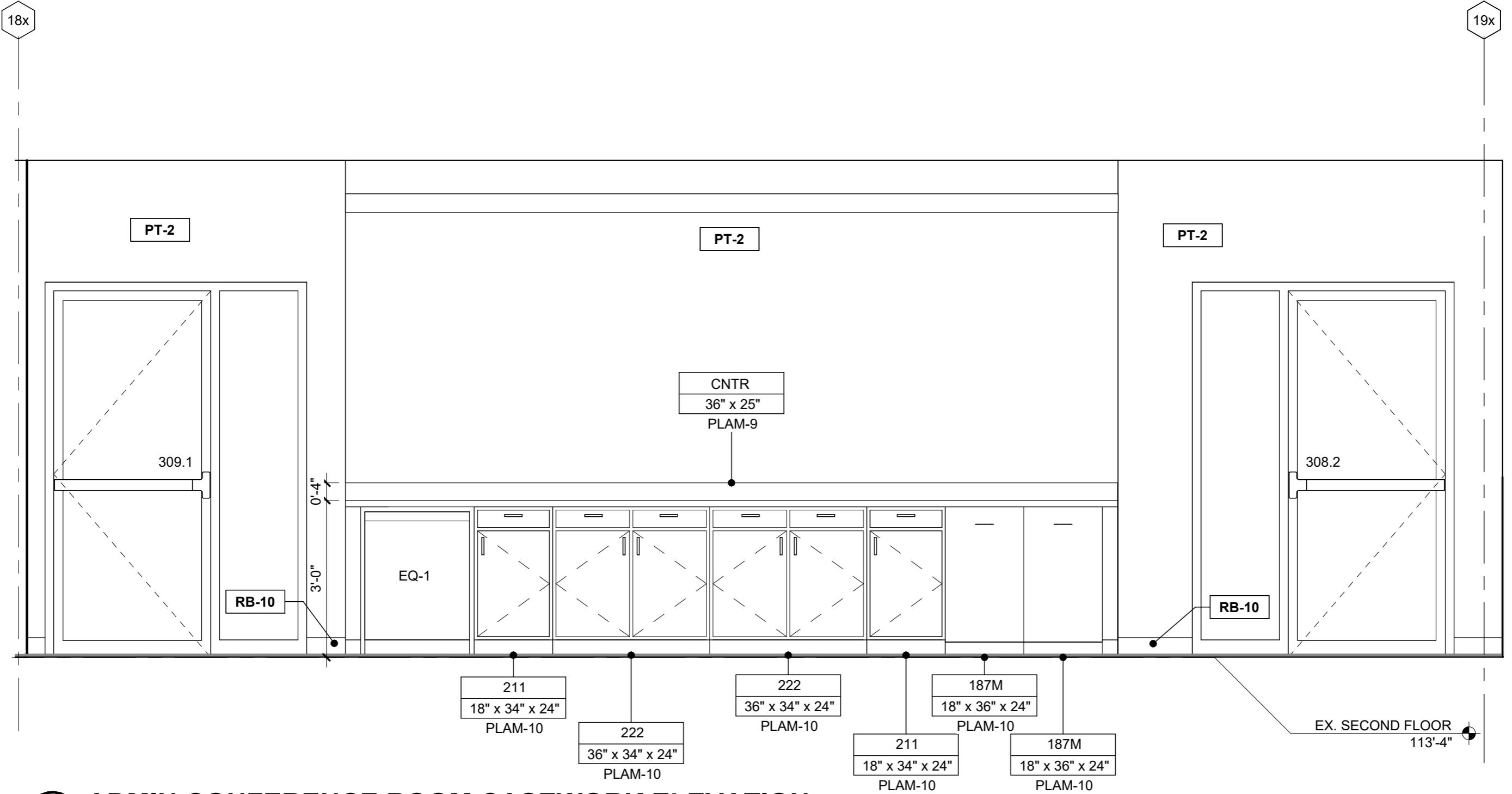
SECOND FLOOR CEILING PLAN

A-12.1

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INTERIOR ELEVATIONS GENERAL NOTES:

- 1. REFERENCE THE NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS FOR CASEWORK.



1 ADMIN CONFERENCE ROOM CASEWORK ELEVATION
 1/2" = 1'-0"

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INTERIOR ELEVATIONS

A-14.1

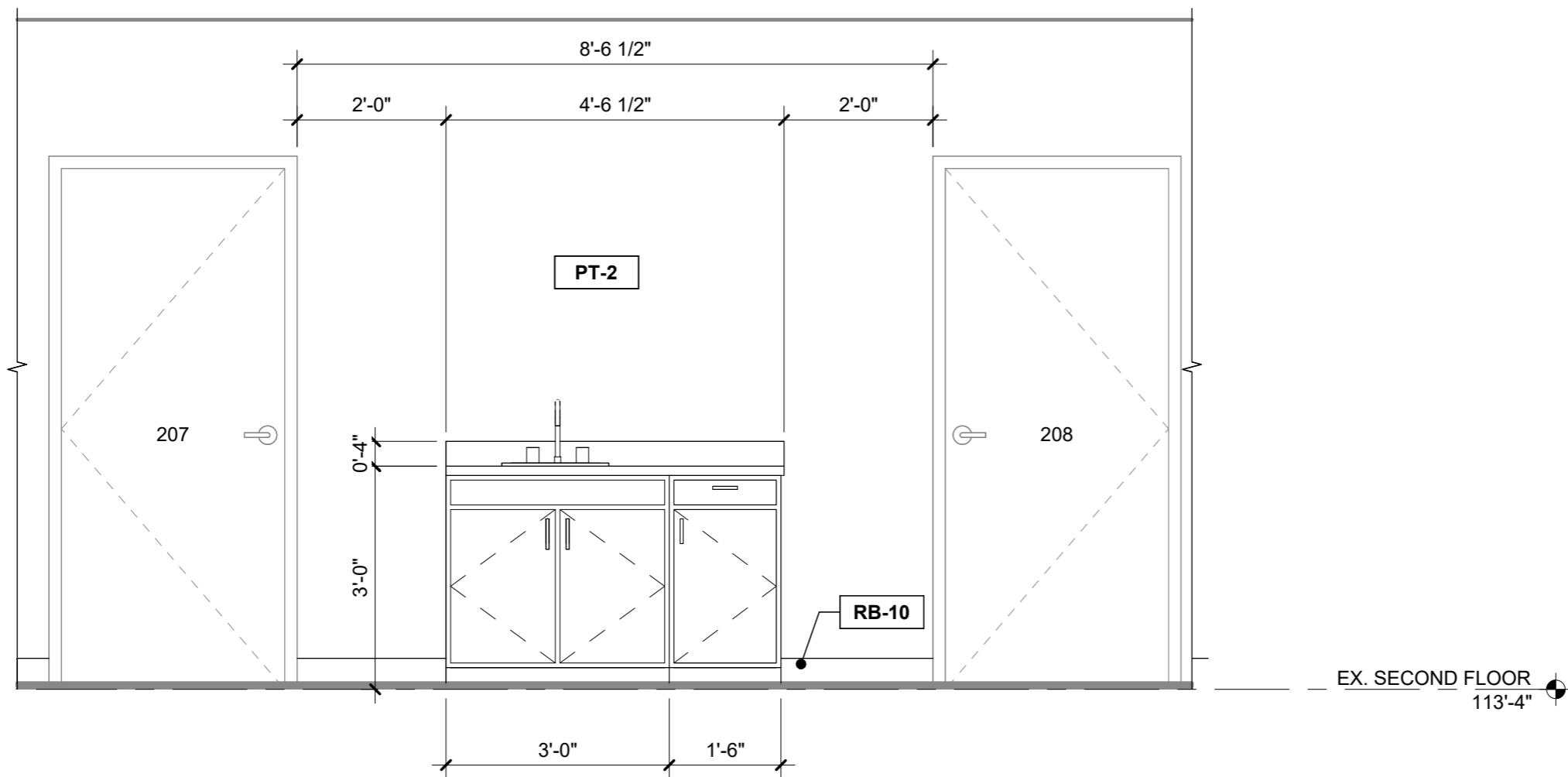


EX. SECOND FLOOR
 113'-4"

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INTERIOR ELEVATIONS GENERAL NOTES:

1. REFERENCE THE NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS FOR CASEWORK.



1 ADMIN CONFERENCE ROOM CIRCULATION CASE WORK ELEVATION
 1/2" = 1'-0"

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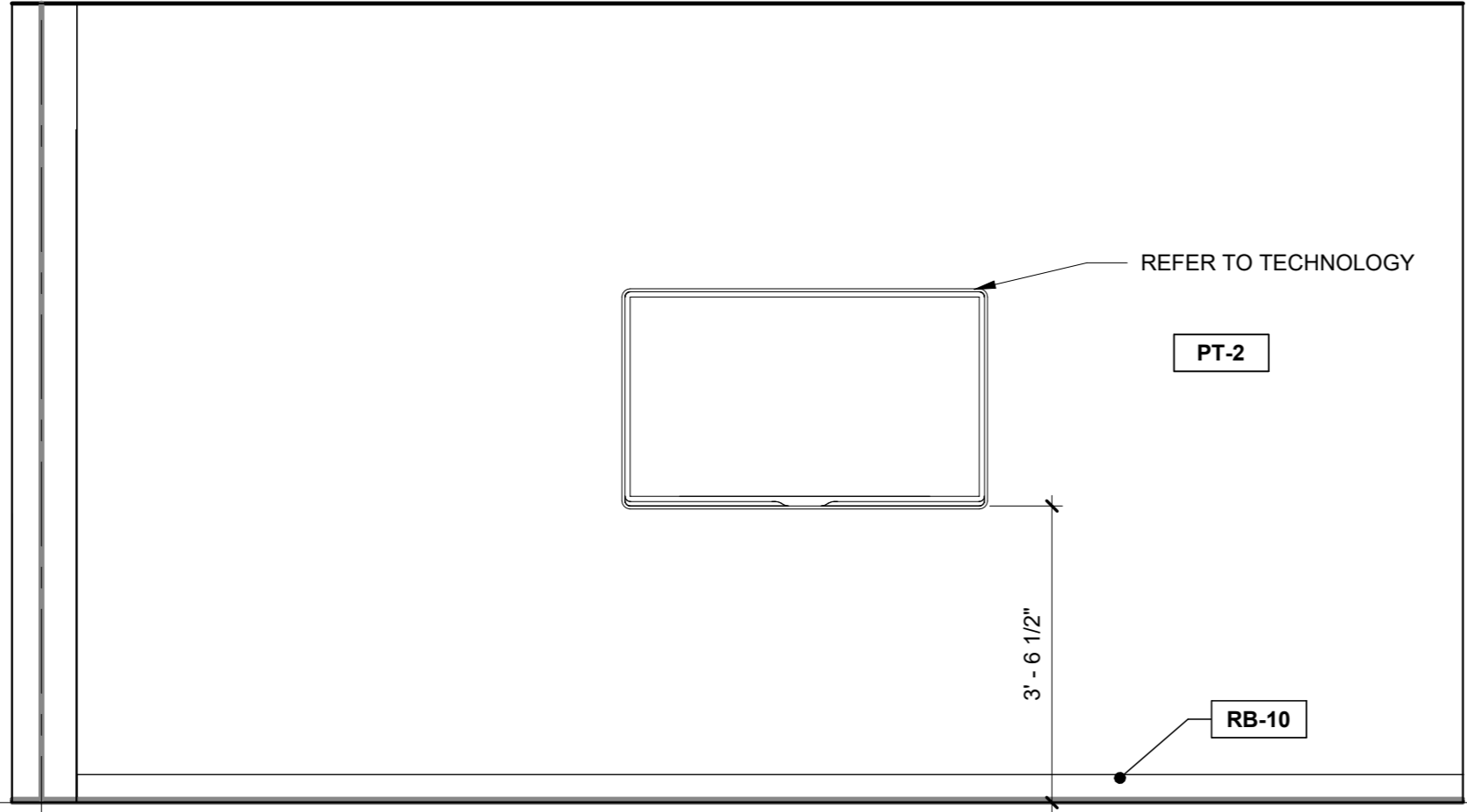
INTERIOR ELEVATIONS

A-14.2



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Ax



EX. SECOND FLOOR
113'-4"

1 ADMIN CONFERENCE ROOM SOUTH ELEVATION
1/2" = 1'-0"

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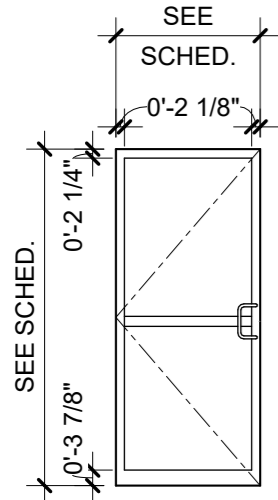
INTERIOR ELEVATIONS

A-14.3



ADMIN CONFERENCE ROOM DOOR AND HARDWARE SCHEDULE

DOOR NUMBER	DOOR							FRAME					MISCELLANEOUS			REMARKS	
	LEAF SIZE			TYPE	MAT'L	GLAZING TYPE	FINISH	TYPE	MAT'L	DETAILS			FINISH	LABEL	HDWR SET		LINTEL
	QTY.	WIDTH	HEIGHT							HEAD	JAMB	OTHER					
308.2	(1)	3'-0"	7'-0"	NS	AL	GL-3B	AL	S	AL	1/A-15.1	2/A-15.1		AL				
309.1	(1)	3'-0"	7'-0"	NS	AL	GL-3B	AL	S	AL	1/A-15.1	2/A-15.1		AL				

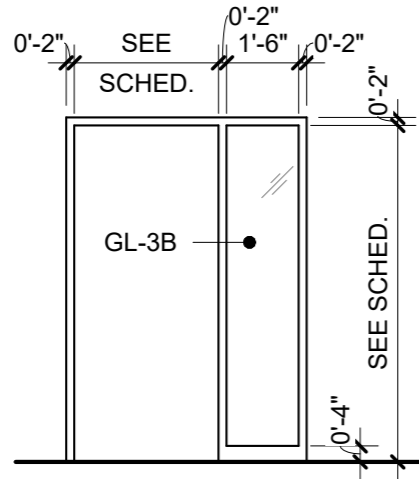


NS

NARROW STILE ALUMINUM DOOR

DOOR TYPES

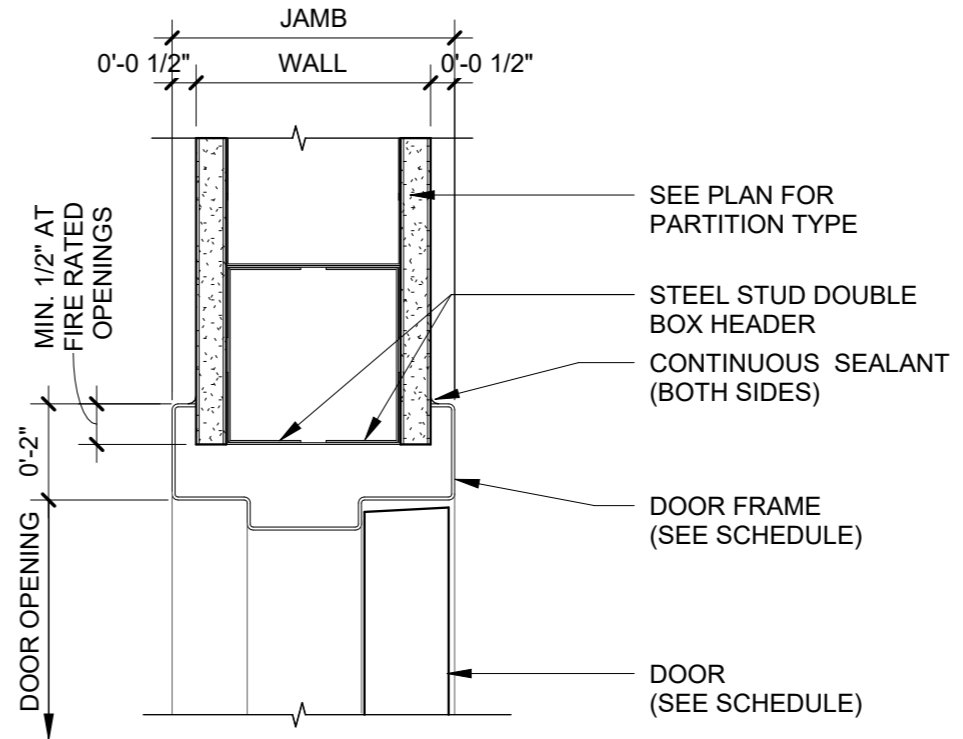
NO SCALE



S

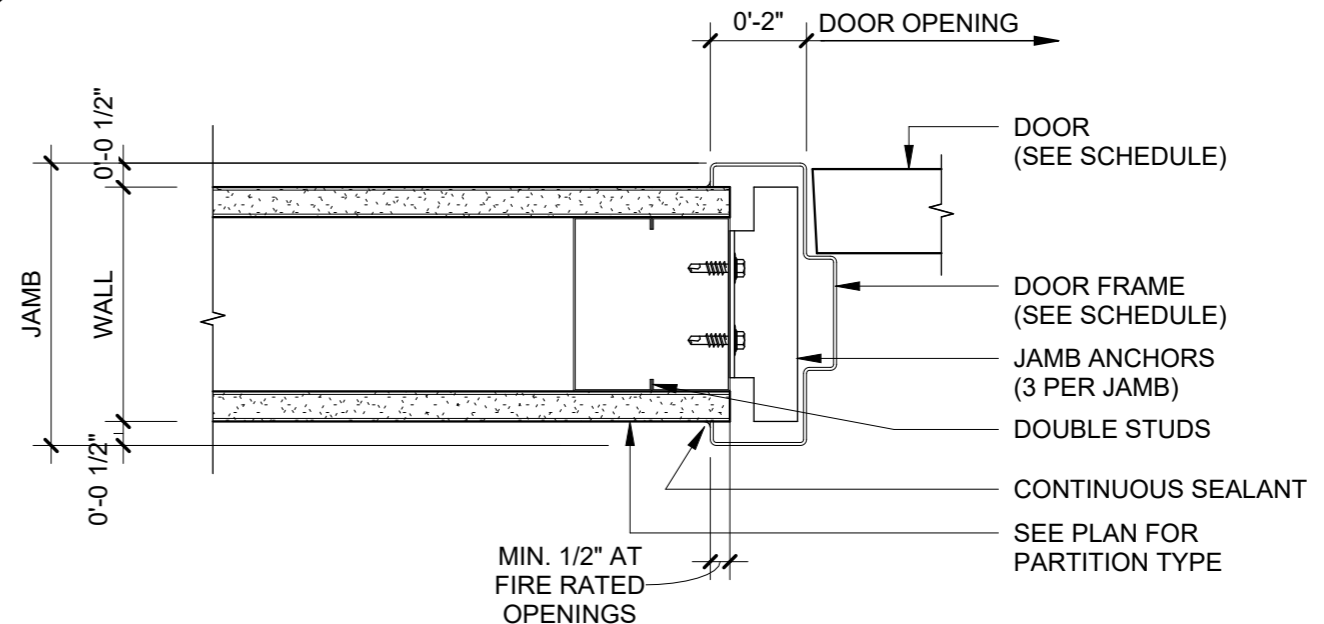
FRAME TYPES

NO SCALE



1 INTERIOR DOOR HEAD

3" = 1'-0"



2 INTERIOR DOOR JAMB

3" = 1'-0"

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DOOR DETAILS AND SCHEDULES

A-15.1



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ADMIN CONFERENCE ROOM FINISH SCHEDULE								
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				REMARKS
				NORTH	EAST	SOUTH	WEST	
308	CIRCULATION	ETR	ETR	ETR	ETR	ETR	ETR	
309	CIRCULATION	ETR	ETR	ETR	ETR	ETR	PT-2	
310	CIRCULATION	ETR	ETR	ETR	ETR	ETR	ETR	
350	ADMIN CONFERENCE ROOM	CPT-10	RB-10	PT-2	PT-2	PT-2	PT-2	

TYPE MARK	ARCHITECTURAL FINISHES SCHEDULE - CONFERENCE ROOM						
	FINISH DESCRIPTION	PRODUCT DESCRIPTION					REMARKS
		MANUFACTURER	MODEL NUMBER	STYLE	COLOR	SIZE	
ACP-5	ACOUSTIC CEILING PANEL	ARMSTRONG CEILINGS	2824WH	CALLA - TEGULAR	WHITE	24"X24"	9/16 SUPRAFINE
CPT-10	CARPET TILE	INTERFACE	105771	ICE BREAKER	GRANITE	19.69"	
HW-5	CABINET PULLS	TOP KNOBS	CHAELOTTE PULL	DAKOTA	BRUSHED SATIN NICKEL	4"	
PLAM-9	PLASTIC LAMINATE -...	FORMICA	933	-	MISSION WHITE	-	
PLAM-10	PLASTIC LAMINATE	WILSONART	D90-60	-	NORTH SEA	-	
RB-10	RUBBER BASE	TARKETT	71	TYPICAL WALL BASE	STORM CLOUD	4"	
SSM-12	SOLID SURFACE	WILSONART	1573MG	-	FROSTY WHITE MIRAGE		

TYPE MARK	EQUIPMENT SCHEDULE - CONFERENCE ROOM						
	DESCRIPTION	MANUFACTURER	MODEL NUMBER	STYLE	COLOR	SIZE	REMARKS
EQ-1	UNDERCOUNTER REFRIGERATOR	SUMMIT APPLIANCE	AL55CSS	-	STAINLESS STEEL	31.63"X 23.5"X 23.38"	



Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM
 M&H NO.: 2309902-251013.01
 Date: 05/21/25

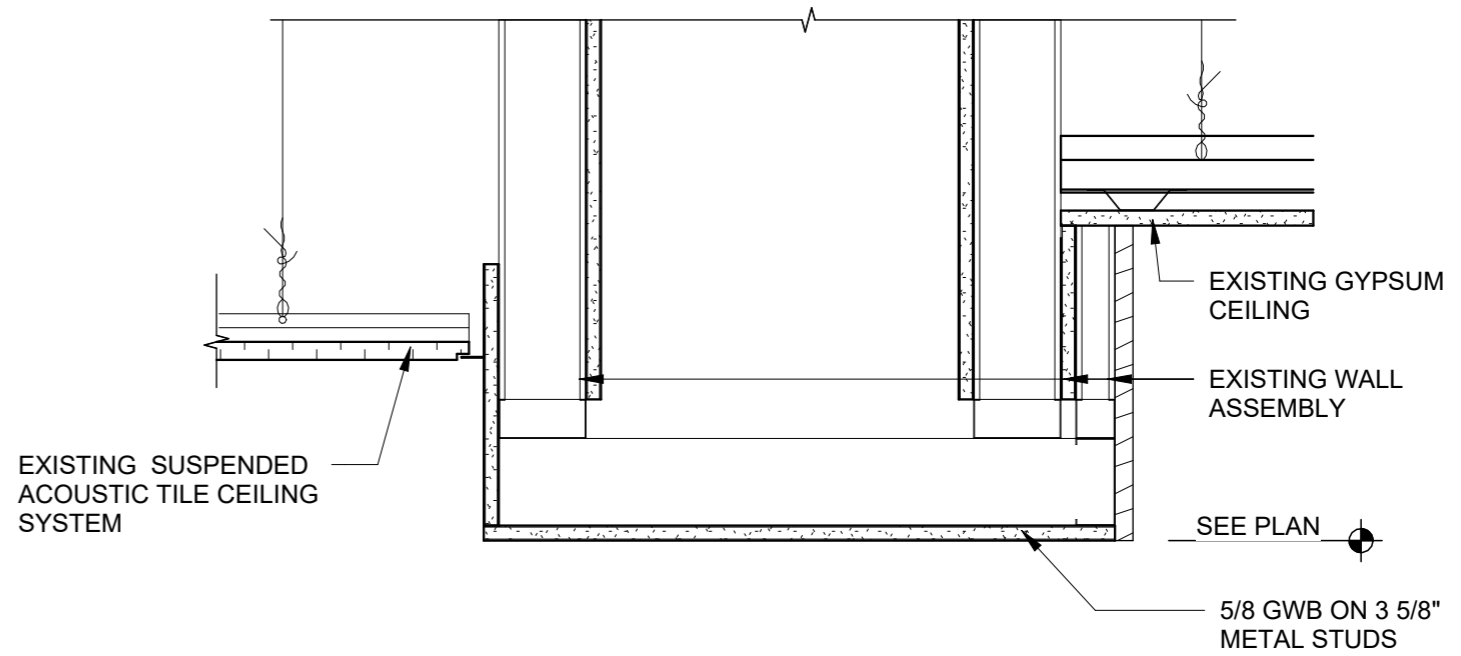
DRN By: MAB

CKD By: -

Drawing Reference Sheet No.:

SCHEDULES

A-15.2



1

SOFFIT CONFERENCE ROOM

1 1/2" = 1'-0"

Project Title: **OUTGAMIE COUNTY
ATW TERMINAL - CONCOURSE EXPANSION - PR 049-0**

M&H NO.: **2309902-191756.08**

DRN By: **MAB**

Drawing
Reference

Date: **05/21/25**

CKD By: **MJM**

Sheet No.:

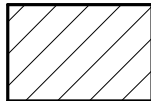
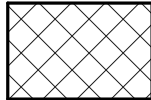
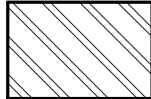
DETAILS

A-16.0

FIRE PROTECTION ABBREVIATIONS

ANG	AIR NATIONAL GUARD
AFF	ABOVE FINISHED FLOOR
BPD	BACKFLOW PREVENTION DEVICE
CW	COLD WATER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DI	DUCTILE IRON
DOD	DEPARTMENT OF DEFENSE
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FPE	PROFESSIONAL FIRE PROTECTION ENGINEER
PIV	POST INDICATOR VALVE
SP	SPRINKLER MAIN ENGINEER
TFB	TO FLOOR BELOW
UFC	UNIFIED FACILITIES CRITERIA
(E)	EXISTING TO REMAIN

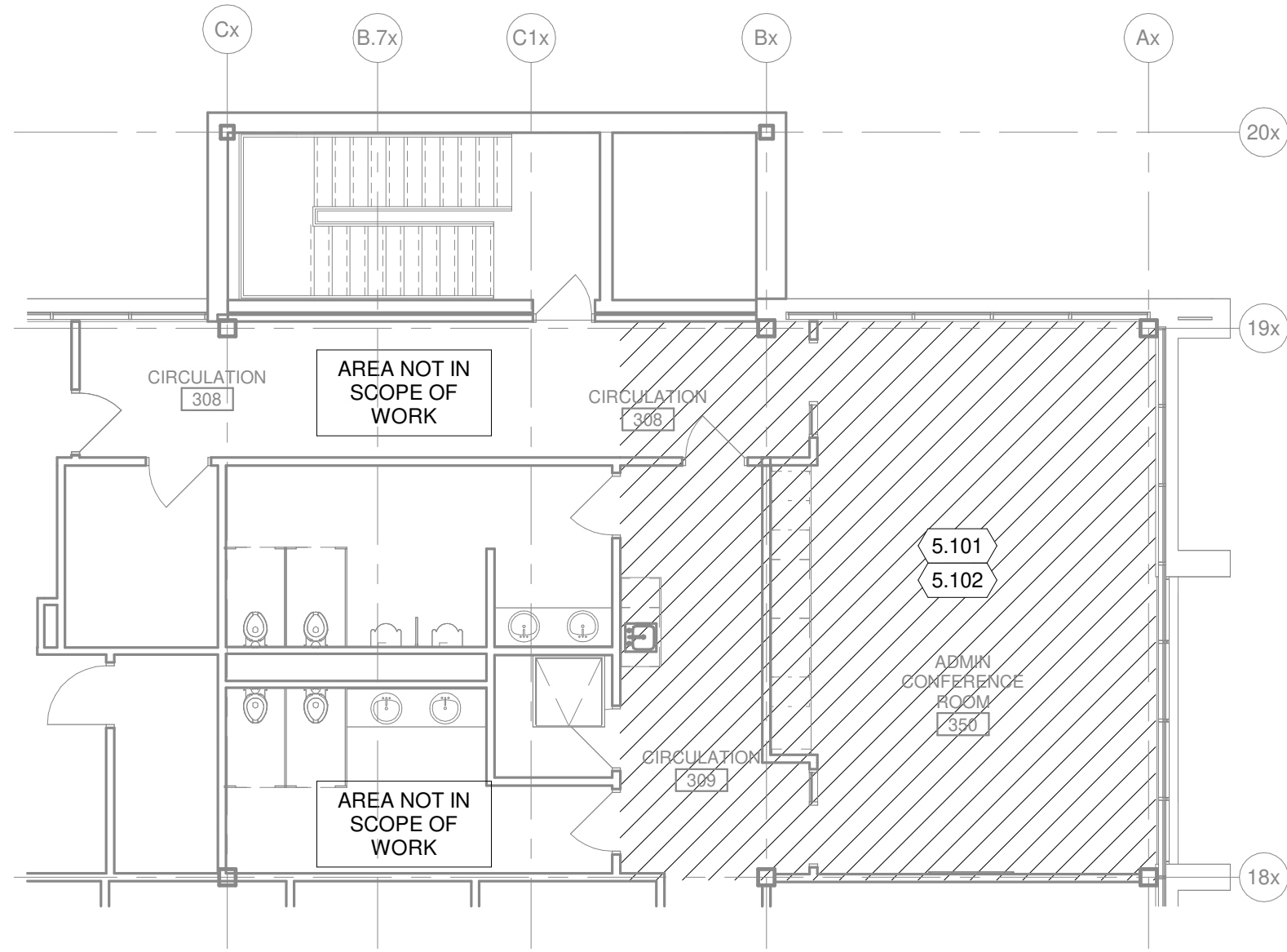
FIRE PROTECTION GROUP PATTERN LEGEND:

	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2

FIRE PROTECTION GENERAL NOTES

1. ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, AND PIPING SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, AND PIPING FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
5. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT ARCH BEFORE PROCEEDING WITH THE WORK.
6. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH OWNER & EXISTING OPERATIONS.
7. ACCURATE AND LEGIBLE RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
11. ALL SPRINKLER IN ACOUSTICAL CEILINGS SHALL BE LOCATED IN THE CENTER OF CEILING TILE.
12. PROVIDE RECESSED SPRINKLER HEADS IN ALL FINISHED AREAS.
13. COORDINATE WITH ARCHITECTURAL PLANS FOR CEILINGS TYPES AND HEIGHTS.
14. VISIT THE BUILDING SITE & BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING WORK.
15. NOMINAL FINISHED FLOOR ELEVATION = 100.0 FT. UNLESS OTHERWISE NOTED.
16. PIPE SIZES AND ROUTING ARE FOR BIDDING PURPOSES ONLY. AWARDED FIRE SPRINKLER CONTRACTOR TO PERFORM THEIR OWN HYDRAULIC CALCULATIONS TO DETERMIN PIPE SIZING AND PIPE ROUTING.

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KEYED NOTES

- 5.101 REFERENCE ARCHITECTURAL CEILING PLANS FOR CEILING TYPES.
- 5.102 MODIFY EXISTING SPRINKLER HEAD LAYOUT TO MATCH NEW FLOOR PLAN AND ARCHITECTURAL CEILING PLAN.

1 SECOND FLOOR SUPPLY PLAN - AREA D
 1/8" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

DRN By: JET

CKD By: RMM

Drawing Reference Sheet No.:

SECOND FLOOR FIRE SPRINKLER PLAN - AREA D



F-12D

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PLUMBING DEMOLITION NOTES

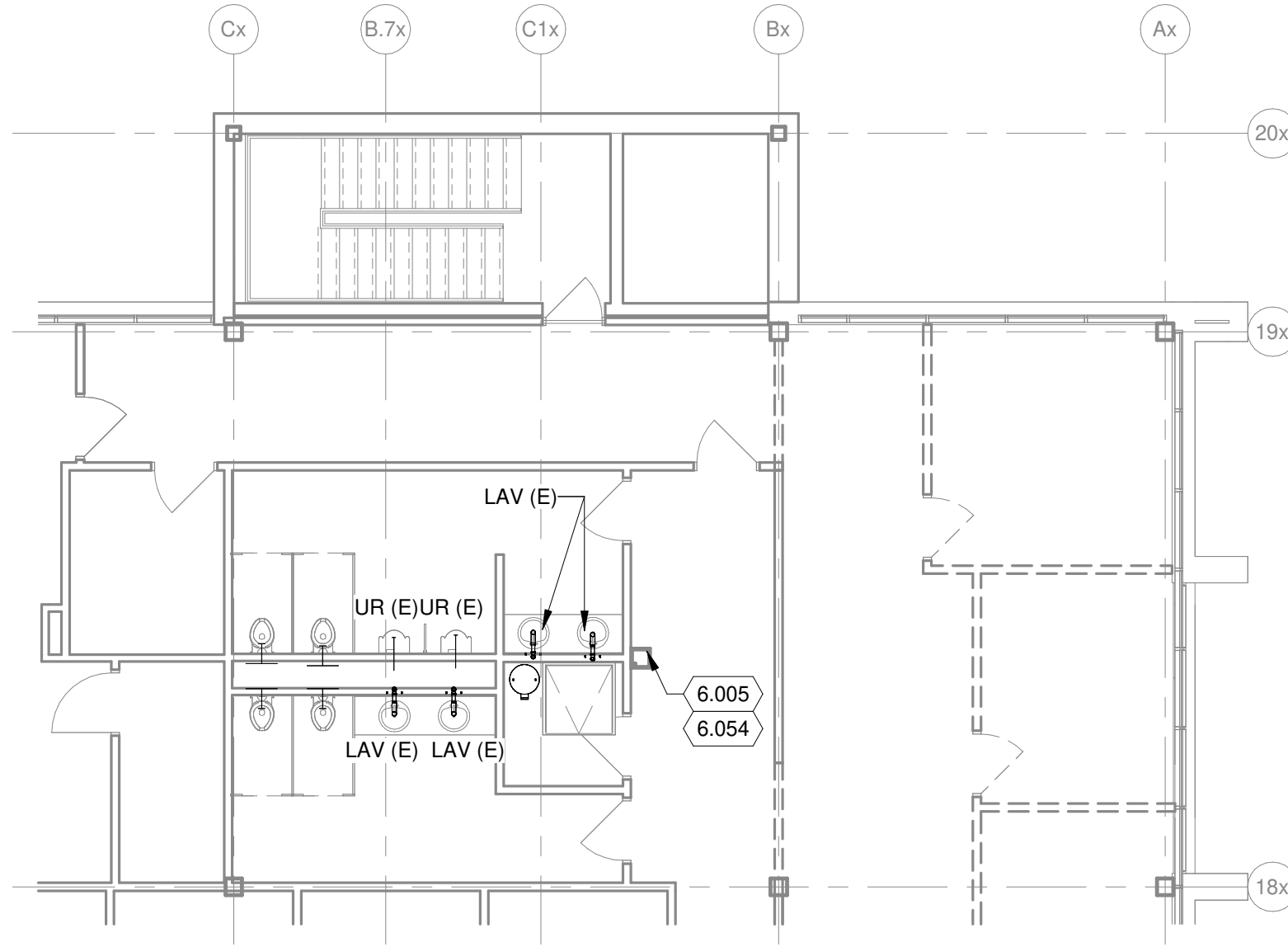
1. WHERE PIPES ARE REMOVED, ALSO REMOVE ALL VALVES, INSULATION, HANGERS, SUPPORTS, AND OTHER ASSOCIATED COMPONENTS.
3. WHERE FIXTURES AND EQUIPMENT ARE REMOVED, ALSO REMOVE ALL ASSOCIATED ROUGH-IN PIPING UNLESS NOTED OTHERWISE.
4. WHERE PIPES ARE REMOVED AND NOT RE-CONNECTED, REMOVE PIPE BACK TO NEXT BRANCH THAT IS TO REMAIN. INSTALL CAPS OR PLUGS ON OPENINGS. INSULATE AND PAINT DISTURBED PIPE SAME AS SPECIFIED FOR NEW WORK.
6. WHERE PIPES ARE ROUTED INSIDE CMU WALLS, PIPE MAY BE ABANDONED PIPE IN PLACE. REMOVE PIPE TO 1" INSIDE WALL ON BOTH ENDS OF PIPE. DETERMINE WHERE PIPE EMERGES FROM CMU WALL AND PIPE BACK TO NEXT BRANCH THAT IS TO REMAIN.
7. WHERE PIPES PASS THROUGH FLOOR SLABS, SAW-CUT SLAB AND REMOVE CONCRETE TO MINIMUM EXTENT NECESSARY TO GAIN ACCESS TO BELOW SLAB. REMOVE PIPE DOWN TO HORIZONTAL PIPING BELOW FLOOR.
8. PATCH EXISTING WALLS, AND FLOORS DISTURBED BY DEMOLITION. RESTORE TO MATCH CONDITION OF ORIGINAL SURROUNDING SURFACES PER SATISFACTION OF OWNER.

PLUMBING PIPING:

	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	SAN	SANITARY DRAIN
	V	VENT FOR SANITARY DRAIN

PLUMBING GENERAL NOTES

1. ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, AND PIPING SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, AND PIPING FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
3. ELEVATION OF PIPING INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
4. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. DO NOT SCALE DRAWINGS. USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT ARCH BEFORE PROCEEDING WITH THE WORK.
6. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH OWNER & EXISTING OPERATIONS.
7. ACCURATE AND LEGIBLE RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
8. ALL EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
10. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
11. VISIT THE BUILDING SITE & BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING WORK.
12. GENERAL NOTES APPLY UNLESS NOTED OTHERWISE
13. WATER SUPPLY SYSTEM PIPE SIZES BASED ON COPPER TUBING - TYPE L AS INCLUDED IN THE SPECIFICATIONS SECTION 221 16 FOR OTHER PIPE MATERIALS CONTRACTOR SHALL DETERMIN REQUIRED PIPE SIZES BASED ON SPS 382.40 TABLES 4 THRU 15.



KEYED NOTES

- 6.005 DEMOLISH EXISTING DRINKING FOUNTAIN. RETAIN SANITARY AND VENT PIPING TO BE RE-USED IN NEW WORK.
- 6.054 DEMOLISH EXISTING DRINK FOUNTAIN. RETAIN THE COLD WATER SUPPLY LINE TO BE REUSED IN NEW WORK.

1 SECOND FLOOR DRAIN AND VENT PLAN - AREA D
1/8" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

DRN By: JET

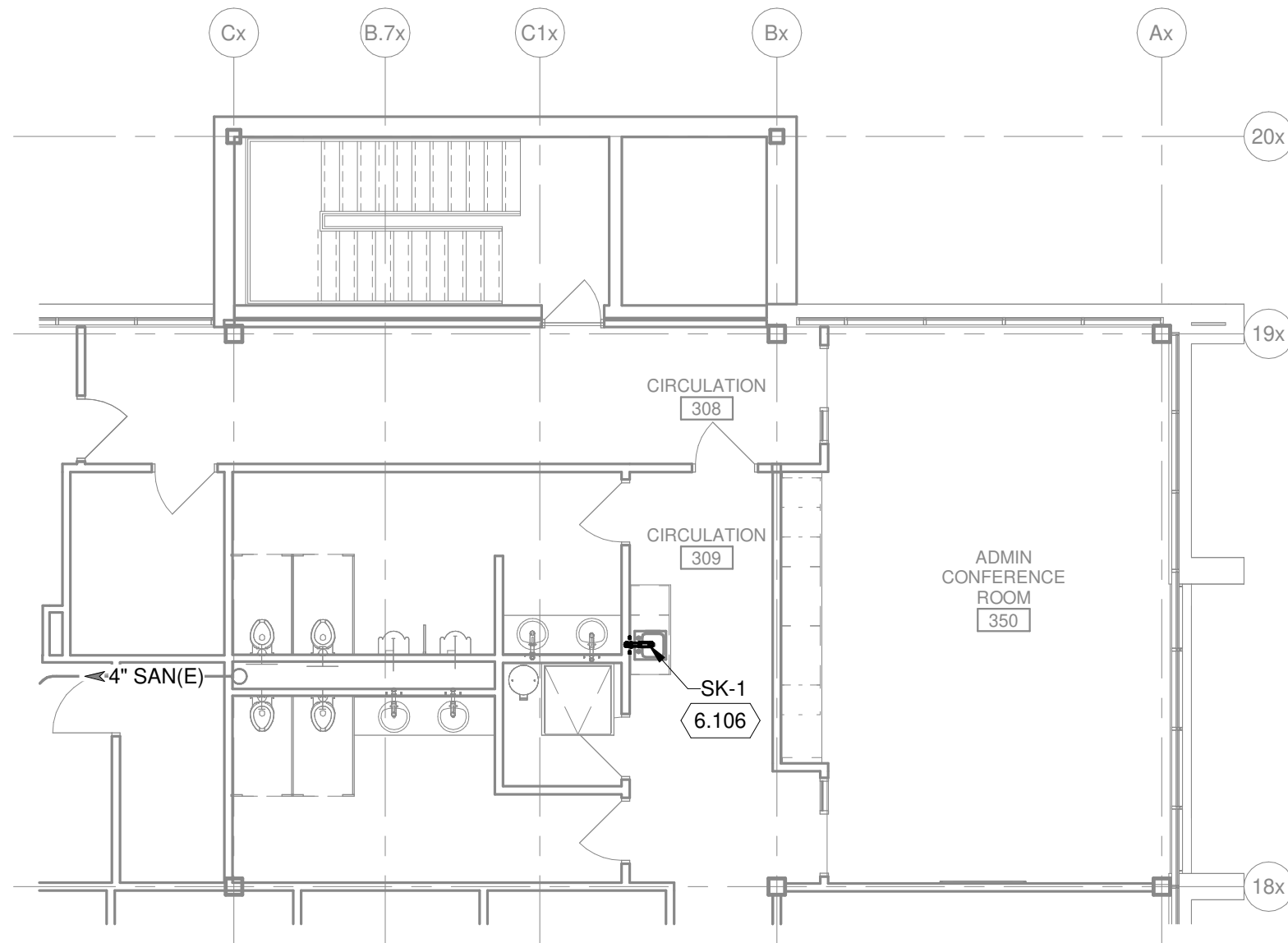
CKD By: JEM

Drawing Reference Sheet No.:

SECOND FLOOR DRAIN AND VENT DEMOLITION PLAN - AREA D

PD02D

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KEYED NOTES

6.106 PLUMBING CONTRACTOR TO CONNECT NEW SINK TO EXISTING SANITARY AND VENT SYSTEM FROM DEMOLISHED DRINKING FOUNTAIN.

N 1 SECOND FLOOR DRAIN AND VENT PLAN - AREA D

1/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE (1)

MARK	EQUIPMENT TYPE	MANUFACTURER, MODEL NUMBER	DESCRIPTION SUMMARY (SEE SPECIFICATIONS)	ELECTRICAL				REMARKS
				VOLTS/PHASE	AMPS	HP	WATTS	
SK-1	SINK	ELKAY, BCR15	SINGLE BASIN, 20 GAUGE TYPE 304 STAINLESS STEEL, DROP-IN, ONE BOWL 12in x 10in x 6in DEEP. PROVIDE AND INSTALL CHROME PLATED CAST BRASS "P" TRAP, LOOSE KEY ANGLE STOPS WITH SHIELD CAPS, SUPPLIES AND ESCUTCHEON PLATES ON SUPPLIES AND DRAIN PIPES.					
	SINK FAUCET	CHICAGO FAUCET: 436-ABCP	DECK MOUNTED, ADA COMPLIANT, CHROME PLATED, HEAVY DUTY RIGID GOOSENECK SPOUT FAUCET WITH DUAL WRISTBLADE HANDLE AND 1.5 GPM LAMINAR FLOW OUTLET. (PROVIDE TMV-1)					

REMARKS

- (1) SEE GENERAL SCHEDULE NOTES
- (2) DISCONNECT INCLUDED
- (3) EXTERNAL DISCONNECT REQUIRED (BY ELECTRICAL CONTRACTOR)
- (4) RECEPTACLE REQUIRED (BY ELECTRICAL CONTRACTOR)

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

DRN By: JET

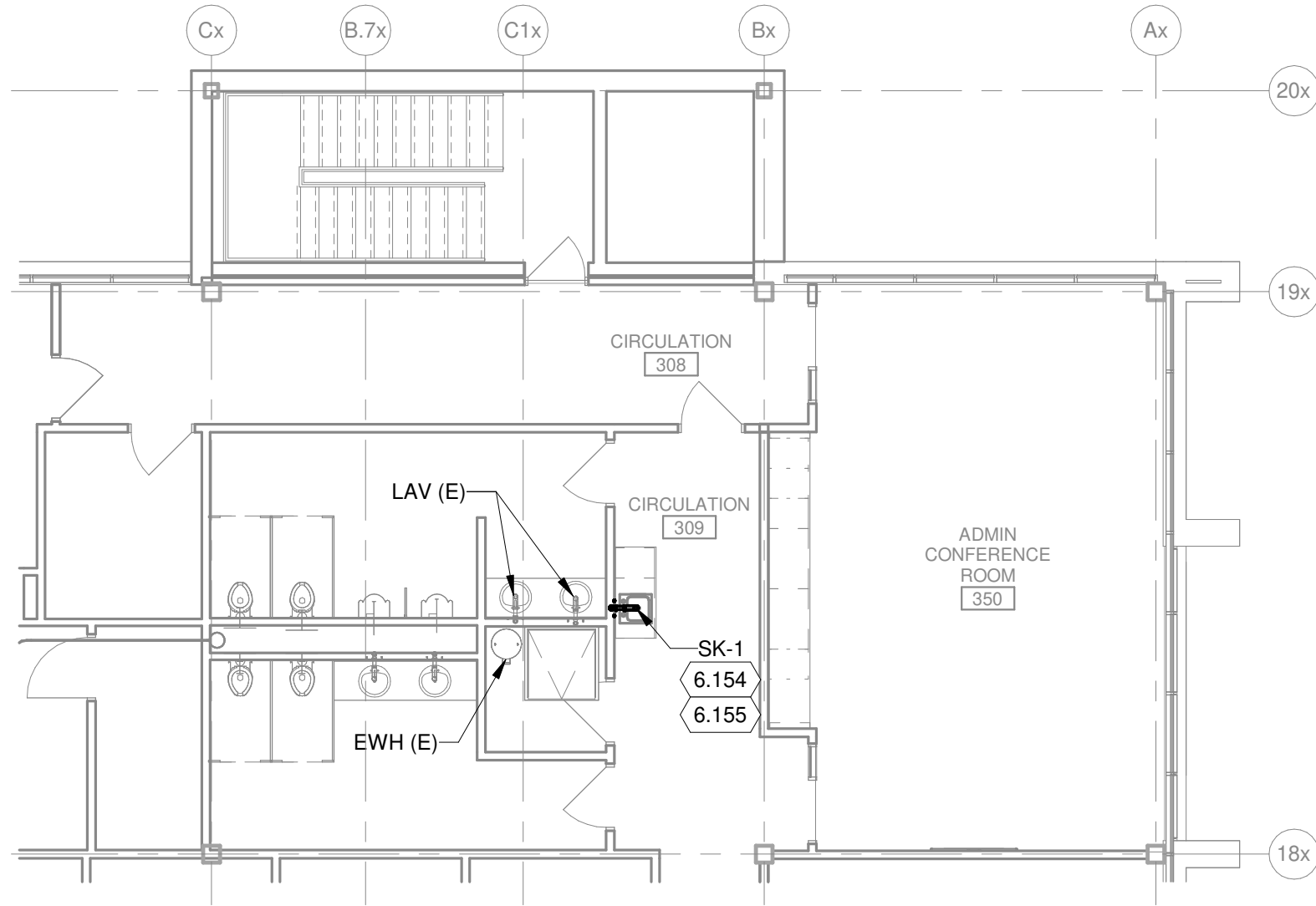
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SECOND FLOOR DRAIN AND VENT PLAN - AREA D

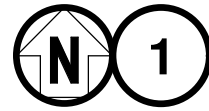
P-02D

Mead & Hunt



KEYED NOTES

- 6.154 PLUMBING CONTRACTOR TO CONNECT NEW SINK TO EXISTING SANITARY AND VENT SYSTEM FROM DEMOLISHED DRINKING FOUNTAIN.
- 6.155 PLUMBING CONTRACTOR TO ROUTE A NEW 1/2" HOT WATER LINE (HW) FROM EXISTING ELECTRIC WATER HEATER (EWH(E)) TO NEW SINK (SK-1).



SECOND FLOOR SUPPLY PLAN - AREA D

1/8" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

DRN By: JET

CKD By: JEM

Drawing Reference Sheet No.:

SECOND FLOOR SUPPLY PLAN - AREA D

P-32D

ABBREVIATIONS

A	AMPS	DAC	DOOR AIR CURTAIN
AB	AIR BLOWDOWN	DBA	DECIBELS, BAND A
ABI	ALTERNATE BID ITEM	DC	DUST COLLECTOR
AC	DUCTLESS SPLIT SYSTEM	DCVA	DOUBLE CHECK VALVE ASSEMBLY BPD
ACC	AIR COOLED CONDENSER	DDC	DIRECT DIGITAL CONTROL
ACCU	AIR COOLED CONDENSING UNIT	DDH	DESICCANT DEHUMIDIFIER
ACH	AIR CHANGES PER HOUR	DEMO	DEMOLISH
ACOMP	AIR COMPRESSOR	DF	DESTRATIFICATION FAN
ACU	AIR CONDITIONING UNIT	DFD	DIVISION OF FACILITIES DEVELOPMENT
ACV	AUTOMATIC CONTROL VALVE	DIA	DIAMETER
AD	AIR DROP	DIM	DIMENSION
AF	AIR FILTER OR AIR FOIL	DISCH	DISCHARGE
AFC	AFTER COOLER	DMPR	DAMPER
AFF	ABOVE FINISHED FLOOR	DN	DOWN
AHJ	AUTHORITY HAVING JURISDICTION	DOD	DEPARTMENT OF DEFENSE
AHU	AIR HANDLING UNIT	DRC	DRY COOLER
AL	ALUMINUM	DWG	DRAWING
AMD	AIR MIXING DEVICE	DX	DIRECT EXPANSION
ANG	AIR NATIONAL GUARD	E	EXISTING
APPROX	APPROXIMATELY	EA	EXHAUST AIR
AS	AIR SEPARATOR	EAT	ENTERING AIR TEMPERATURE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EBH	ELECTRIC BASEBOARD HEATER
AT	AIR TERMINAL	EC	EVAPORATIVE COOLER OR ELECTRICAL CONTRACTOR
AWC	ABSORPTION CHILLER	EDH	ELECTRIC DUCT HEATER
BAS	BUILDING AUTOMATION SYSTEM	EF	EXHAUST FAN
BC	BOOSTER COIL	EFF	EFFICIENCY
BH	BOOSTER HUMIDIFIER	EFT	ENTERING FLUID TEMPERATURE
BHP	BRAKE HORSEPOWER	EG	EXHAUST GRILLE
BHR	CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM	EGLY	ETHYLENE GLYCOL
BI	BACKWARD INCLINED	EHC	ELECTRIC HEATING COIL
BLD	BOILER BLOWDOWN SEPARATOR	EJ	EXPANSION JOINT
BPD	BACKFLOW PREVENTION DEVICE	EL	ELEVATION
BRS	BRASS	ELEC	ELECTRIC
BRZ/BZ	BRONZE	EOM	END OF MAIN
BS	BLACK (MILD) STEEL	EPDM	ETHYLENE PROPYLENE DIENE MONOMER
BSB	BRANCH SELECTOR BOX	ERV	AIR-TO-AIR HEAT EXCHANGER
BT	BUFFER TANK	ESP	EXTERNAL STATIC PRESSURE
BTU	BRITISH THERMAL UNIT	ET	EXPANSION TANK
BTUH	BRITISH THERMAL UNIT PER HOUR	ETR	EXISTING TO REMAIN
BW	BUTTWELD	EWH	ELECTRIC WALL HEATER
C	CONVECTOR	EWT	ENTERING WATER TEMPERATURE
CA	COMBUSTION AIR	°F	FAHRENHEIT
CBWS	CHILLED BEAM COOLING WATER SUPPLY	FAF	FORCED AIR FURNACE
CBWR	CHILLED BEAM COOLING WATER RETURN	FC	FLUID COOLER
CC	COOLING COIL OR CONTROLS CONTRACTOR	FCU	FAN COIL UNIT
CD	CEILING DIFFUSER	FE	FUME EXTRACTOR
CFM	CUBIC FEET PER MINUTE	FLA	FULL LOAD AMPS
CI	CAST IRON	FLR	FLOOR
COMP	COMPRESSOR	FM	FLOW METER
COND	CONDENSATE	FOP	FUEL OIL PUMP
COR	CONTRACTING OFFICER'S REPRESENTATIVE	FPM	FEET PER MINUTE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT	FRP	FIBERGLASS REINFORCED PLASTIC
CRP	CONDENSATE RETURN PUMP	FS	FLOAT SWITCH
CS	CENTRIFUGAL SEPARATOR	FT	FLASH TANK OR FEET
CT	COOLING TOWER	FTC	FINNED TUBE CONVECTOR
CTCLG	CLOSE TO CEILING	FTWC	FEET WATER COLUMN PRESSURE
CTCLM	CLOSE TO COLUMN	GA	GAUGE
CTW	CLOSE TO WALL	GAL	GALLON
CU	COPPER	GC	GENERAL CONTRACTOR
CUH	CABINET UNIT HEATER	GFT	GLYCOL FILL TANK

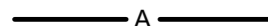
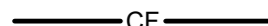
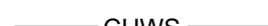


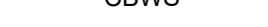



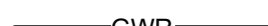

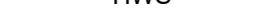



GENERAL MECHANICAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND IS REQUIRED TO DO ALL WORK WHICH IS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED AS NECESSARY TO COMPLETE THEIR DIVISION OF WORK FOR THIS PROJECT REGARDLESS OF WHERE IN THE CONTRACT DOCUMENTS THE WORK IS REPRESENTED. MECHANICAL CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES. ALL OTHER TRADE DOCUMENTS ARE TO BE CONSIDERED PART OF THIS CONTRACTORS DOCUMENTS WITH RESPECT TO COORDINATION OF WORK BETWEEN TRADES OF WORK.
2. ABBREVIATIONS AND SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
3. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
4. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
5. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
6. ACCURATE AND LEGIBLE AS-BUILT DRAWING MARKUPS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT FOR THE CREATION OF FINAL RECORD DRAWINGS.
7. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE AND DUCT ROUTING WITH OWNER PRIOR TO INSTALLATION.
8. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
9. MAINTAIN 3'-0" CLEAR HORIZONTALLY IN FRONT OF ALL ELECTRICAL EQUIPMENT.
10. COORDINATE POWER REQUIREMENTS FOR ALL POWER TO MECHANICAL EQUIPMENT INCLUDING CONTROL SYSTEM WITH ELECTRICAL CONTRACTOR AND INSURE ALL COSTS ASSOCIATED WITH SUCH ARE INCLUDED IN THE PROJECT BID COST. PROVIDE ELECTRICAL POWER, TRANSFORMERS, RELAYS, ETC. AS NECESSARY TO ALL HVAC AND MECHANICAL CONTROLS.
11. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES ON ALL EQUIPMENT.

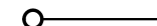














ABBREVIATIONS

GPM	GALLONS PER MINUTE	NA	NOT APPLICABLE	SG	SUPPLY GRILLE
GS	GALVANIZED STEEL	NC	NORMALLY CLOSED	SHT	SHEET
GSHP	GROUND SOURCE HEAT PUMP	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	SMLS	SEAMLESS
H	HEIGHT	NH	NO-HUB	SMS	SNOW MELTING SYSTEM DISTRIBUTION
HB	HUMIDIFICATION BOILER	NIC	NOT IN CONTRACT		MANIFOLD
HC	HEATING COIL	NO	NORMALLY OPEN	SP	STATIC PRESSURE
HD	HEAD (FT)	NOM	NOMINAL	SPEC	SPECIFICATIONS
HDB	HYDROSTATIC DESIGN BASIS	NPSH	NET POSITIVE SUCTION HEAD	SQ	SQUARE
HOA	HAND / OFF / AUTO	NPSHA	NPSH AVAILABLE	SRV	SAFETY RELIEF VALVE
HP	HEAT PUMP OR HORSEPOWER	NPSHR	NPSH REQUIRED	SS	STAINLESS STEEL
HPC	ERV HEAT PUMP COIL	OA	OUTSIDE AIR	ST	STEAM TRAP
HR	HOSE REEL	OC	ON CENTER	STD	STANDARD
HRW	ROTARY AIR-TO-AIR EXCHANGER	OD	OUTSIDE DIAMETER	STL	STEEL
HUM	HUMIDIFIER	OED	OPEN ENDED DUCT	SV	SOLVENT WELD
HWB	HOT WATER BOILER	P	HYDRONIC PUMP OR PRESSURE	SW	SOCKET WELD
HX	FLUID HEAT EXCHANGER	PC	PLUMBING CONTRACTOR	T	TEMPERATURE
HZ	HERTZ	PCP	PRESSURE POWERED CONDENSATE PUMP	TA	TRANSFER AIR
IAW	IN ACCORDANCE WITH	PD	PRESSURE DROP/DIFFERENTIAL	TCP	TEMPERATURE CONTROL PANEL
ID	INSIDE DIAMETER	PG	PROPYLENE GLYCOL	TDH	TOTAL DEVELOPED HEAD
IE	INVERT ELEVATION	PH	PHASE	TDS	TOTAL DISSOLVED SOLIDS
IFGC	INTERNATIONAL FUEL GAS CODE	PPH	POUND PER HOUR	TEMP	TEMPERATURE
IH	INTAKE HOOD	PROP	PROPELLER	TG	TRANSFER GRILLE
IN	INCH	PRV	PRESSURE REDUCING VALVE	TH	THREADED
INHG	INCHES MERCURY PRESSURE	PSI	POUNDS PER SQUARE INCH	TMC	TECHNOLOGY MANAGEMENT CENTER
INWC	INCHES WATER COLUMN PRESSURE	PSIA	PSI ABSOLUTE	TMV	THERMOSTATIC MIXING VALVE
IR	INFRARED HEATER	PSID	PSI DIFFERENTIAL	TONR	TONS COOLING
KH	KITCHEN HOOD	PSIG	PSI GAGE	TYP	TYPICAL
KW	KILOWATT	PTAC	PACKAGED TERMINAL AIR CONDITIONER	UC	UNIT COOLER
L	LOUVER OR LENGTH	PTHP	PACKAGED TERMINAL HEAT PUMP	UFC	UNIFIED FACILITIES CRITERIA
LAT	LEAVING AIR TEMPERATURE	PVC	POLYVINYL CHLORIDE	UGD	UNDERGROUND
LB	POUNDS	RA	RETURN AIR	UH	UNIT HEATER
LD	LINEAR DIFFUSER	RCP	RADIANT CEILING PANEL	UNO	UNLESS NOTED OTHERWISE
LFT	LEAVING FLUID TEMPERATURE	RDH	REFRIGERATED DEHUMIDIFIER	UV	UNIT VENTILATOR OR ULTRAVIOLET
LPG	LIQUIFIED PETROLEUM GAS	RG	RETURN GRILLE	V	VOLTS
LS	LEVEL SWITCH	RH	RELIEF HOOD	VA	VENT AIR
LWT	LEAVING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE	VER	VEHICLE EXHAUST REEL
MADP	MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE	RTD	RESISTIVE THERMAL DEVICE	VFD	VARIABLE FREQUENCY DRIVE
MAU	MAKE-UP AIR UNIT	RTU	ROOF TOP UNIT	VI	VIBRATION ISOLATORS
MAWP	MAXIMUM ALLOWABLE WORKING PRESSURE	RZ	RADIANT FLOOR HEATING ZONE	VLV	VALVE
MAX	MAXIMUM	SA	SUPPLY AIR	VRF	VARIABLE REFRIGERANT FLOW
MBH	THOUSANDS BTU'S PER HOUR	SAD	SOUND ATTENUATING DEVICE	W	WATTS OR WIDTH
MC	MECHANICAL CONTRACTOR OR MECHANICAL COUPLING	SB	SECURITY BARRIER	WC	WATER COLUMN
MCA	MINIMUM CIRCUIT AMPACITY	SCFM	STANDARD CFM	WCC	WATER COOLED CONDENSER
MCC	MOTOR CONTROL CENTER	SCH	SCHEDULE	WCH	WATER COOLED CHILLER
MFR	MANUFACTURER	SD	SLOT DIFFUSER/SOLDER	WF	WATER FILTER
MIN	MINIMUM	SF	STEAM FILTER OR SUPPLY FAN	WIV	WATER INLET VALVE
MMBH	MILLION BTU PER HOUR			WHA	WATER HAMMER ARRESTOR
MOC	MINIMUM OVER CURRENT PROTECTION				
MSS	MANUFACTURERS STANDARDIZATION SOCIETY				
MTL	MATERIAL				


























MECHANICAL PIPING

	A	COMPRESSED AIR
	CF	CHEMICAL FEED
	CHWS	CHILLED WATER SUPPLY
	CHWR	CHILLED WATER RETURN
	CBWS	CHILLED BEAM COOLING WATER SUPPLY
	CBWR	CHILLED BEAM COOLING WATER RETURN
	CD	CONDENSATE DRAIN
	GWS	GLYCOL WATER SUPPLY
	GWR	GLYCOL WATER RETURN
	HWS	HOT WATER SUPPLY
	HWR	HOT WATER RETURN
	G	NATURAL GAS
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	RHG	REFRIGERANT HOT GAS

















PIPING SYMBOLS

	PIPE TURNED TOWARD
	PIPE TURNED AWAY
	PIPE TEE TURNED AWAY
	PIPE TEE TURNED TOWARD
	FLEXIBLE CONNECTOR
	UNION
	FLANGES
	PIPE CAP/CLEAN OUT
	PIPE PLUG
	FLUID FLOW DIRECTION
	PIPE GUIDE
	FLOW SENSOR
	LEVEL SENSOR
	PRESSURE SENSOR
	TEMPERATURE SENSOR

HVAC SYMBOLS

	AIRFLOW (SUPPLY/OUTSIDE AIR)
	AIRFLOW (RETURN/EXHAUST)
	DOOR GRILLE
	SUPPLY OR OUTDOOR AIR
	RETURN OR TRANSFER
	EXHAUST
	SUPPLY DUCT TURNED AWAY
	SUPPLY DUCT TURNED TOWARD
	RECTANGLE DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)
	ROUND DUCT (RIGID)
	OVAL DUCT (FIRST FIGURE IS SIDE SHOWN)
	SMOKE DETECTOR
	DUCT (FLEXIBLE ROUND)
	TURNING VANES
	TRANSITION (SQUARE-TO-ROUND)
	SECURITY BARS
	BACKDRAFT DAMPER
	VOLUME DAMPER
	FIRE DAMPER & ACCESS DOOR
	SMOKE DAMPER & ACCESS DOOR
	COMBINATION FIRE/SMOKE DAMPER & ACCESS DOOR
	MOTOR OPERATED CONTROL DAMPER
	CEILING MOUNTED ACCESS PANEL
	AIR OUTLET/INLET TYPE (CFM)
	AIR FLOW MEASURING STATION

GENERAL SYMBOLS

	CARBON MONOXIDE (CO) SENSOR
	CARBON DIOXIDE (CO2) SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	NITROGEN DIOXIDE (NO2) SENSOR
	ROOM SENSOR
	STATIC PRESSURE SENSOR
	MOISTURE DETECTOR
	HUMIDISTAT
	TEMPERATURE SENSOR
	THERMOSTAT WITH USER ADJUSTABLE INTERFACE
	INSULATED BASE THERMOSTAT
	SWITCH
	NEW CONNECTION TO EXISTING
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW TO BE INSTALLED

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Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 10/23/22

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CKD By: AK

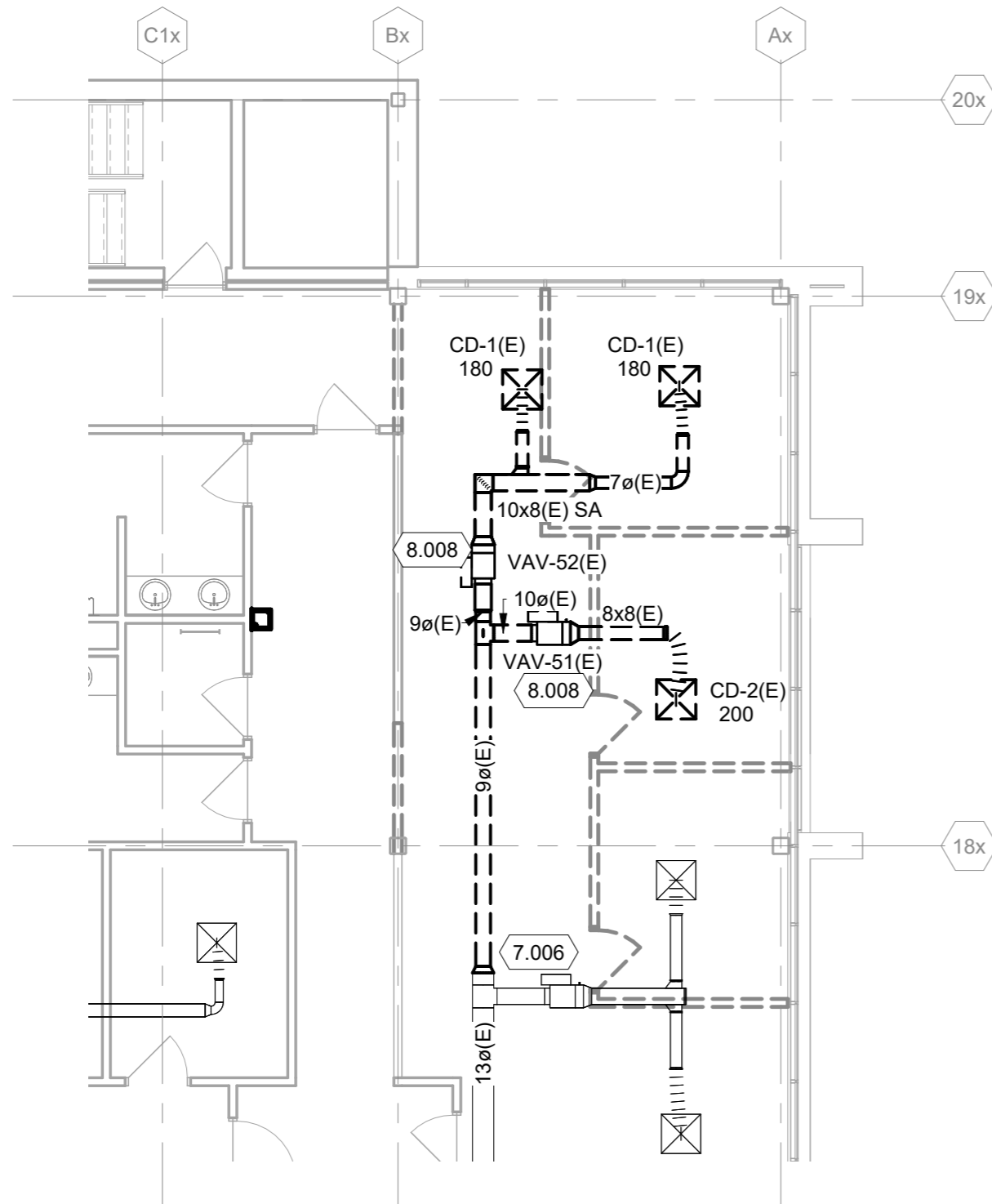
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SYMBOLS

M-01.3



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GENERAL HVAC DEMOLITION NOTES

1. COMPLETELY DEMOLISH ALL EXISTING DUCTWORK AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGER SUPPORTS, ETC. FOR REMAINING DUCT SYSTEM. PLUG OR CAP ALL OPENINGS CREATED BY DUCT DEMOLITION. TEST DUCTWORK AS SPECIFIED, AND INSULATE OR PAINT SAME AS NEW WORK. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
2. COMPLETELY DEMOLISH ALL EXISTING EQUIPMENT AS SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED ACCESSORIES, INSULATION, HANGERS, SUPPORTS, BASES, CONTROLS, ETC. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
3. DELIVER INDICATED EQUIPMENT TO OWNER'S DESIGNATED STORAGE SPACE ON SITE, PLUG OR CAP ALL EQUIPMENT OPENINGS TO PREVENT DIRT AND MOISTURE FROM ENTERING EQUIPMENT.
4. REINSTALL INDICATED EQUIPMENT, SAME AS NEW WORK, IN NEW LOCATION WHERE INDICATED. COMPLETELY CLEAN AND RESTORE EQUIPMENT TO GOOD OPERATING CONDITION.
5. INSTALL TEMPORARY COVERS OVER EXISTING EXTERIOR ENVELOPE OPENINGS CREATED BY REMOVED EQUIPMENT/DUCT. COVER SHALL BE WATERTIGHT, AND MEET OSHA AND OWNER REQUIREMENTS. COMPLETELY REMOVE TEMPORARY COVER WHEN OPENINGS ARE PATCHED TO FINAL CONDITION. REPAIR ANY DAMAGE TO EXISTING BUILDING COMPONENTS CAUSED BY TEMPORARY COVER.
6. WHERE BRANCH DUCTWORK IS SHOWN TO BE DEMOLISHED BACK TO THE MAIN DUCT AND THE EXISTING MAIN DUCT OPENING IS NOT TO BE RE-USED, CAP AND SEAL THE MAIN DUCT BRANCH OPENING AIRTIGHT.
7. CONTRACTOR TO CLEAN EXISTING DUCTWORK.

KEYED NOTES

- 7.006 CAP EXISTING DUCTWORK AT THE POINT OF DISCONNECTION.
- 8.008 DEMOLISH VAV BOX AND ASSOCIATED THERMOSTAT.



SECOND FLOOR HVAC DEMOLITION PLAN - AREA D

1/8" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

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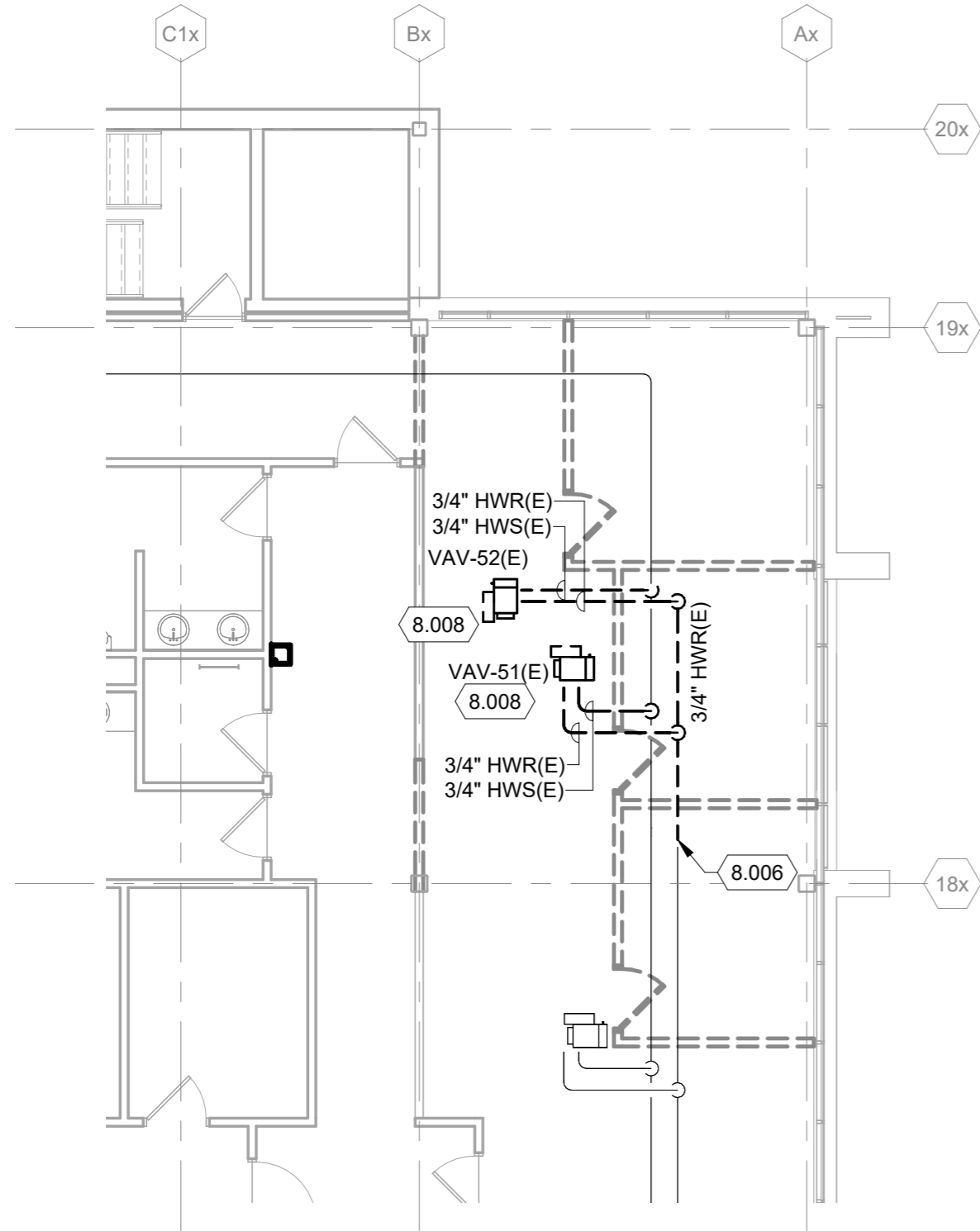
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SECOND FLOOR HVAC DEMOLITION PLAN - AREA D

MD02

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GENERAL PIPING DEMOLITION NOTES

1. COMPLETELY DEMOLISH ALL INDICATED EXISTING PIPING SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, ETC. FOR REMAINING PIPING SYSTEMS. PLUG OR CAP ALL OPENINGS CREATED BY PIPING DEMOLITION. TEST PIPING SYSTEMS AS SPECIFIED, AND INSULATE OR PAINT SAME AS NEW WORK. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
2. COMPLETELY DEMOLISH ALL EXISTING EQUIPMENT SHOWN WITH BOLD DASHED LINES, INCLUDING ALL ABANDONED AND UNUSED PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, BASES, CONTROLS, ETC. PATCH EXISTING WALLS, ROOFS, CEILINGS, AND FLOORS DISTURBED BY DEMOLITION TO ORIGINAL CONDITION.
3. DELIVER INDICATED EQUIPMENT TO OWNER'S DESIGNATED STORAGE SPACE ON SITE, PLUG OR CAP ALL EQUIPMENT OPENINGS TO PREVENT DIRT AND MOISTURE FROM ENTERING EQUIPMENT.
4. WHERE PIPES ARE REMOVED AND NOT RE-CONNECTED, REMOVE PIPE BACK TO NEXT BRANCH THAT IS TO REMAIN. INSTALL CAPS OR PLUGS ON OPENINGS. PRIME, PAINT, AND INSULATE DISTURBED PIPE SAME AS SPECIFIED FOR NEW WORK.
5. REINSTALL INDICATED EQUIPMENT, SAME AS NEW WORK, IN NEW LOCATION WHERE INDICATED. COMPLETELY CLEAN AND RESTORE EQUIPMENT TO GOOD OPERATING CONDITION.
6. ABANDON IN PLACE UNDERGROUND PIPES SHOWN ON DRAWINGS AS PHANTOM.
7. WHERE PIPES ARE ROUTED INSIDE CMU WALLS, PIPE MAY BE ABANDONED PIPE IN PLACE. REMOVE PIPE TO 1" INSIDE WALL AT BOTH ENDS.
8. WHERE PIPES PASS THROUGH FLOOR SLABS, SAW-CUT SLAB AND REMOVE CONCRETE TO MINIMUM EXTENT NECESSARY TO GAIN ACCESS BELOW SLAB. REMOVE PIPE DOWN TO HORIZONTAL PIPING BELOW FLOOR. SEAL AND CAP ABANDONED PIPE ENDS.
9. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL TRADES. PATCH EXISTING ROOFS, WALLS, AND FLOORS DISTURBED BY DEMOLITION. RESTORE TO MATCH CONDITION OF ORIGINAL SURROUNDING SURFACES.

KEYED NOTES

- 8.006 DISCONNECT HOT WATER PIPING.
- 8.008 DEMOLISH VAV BOX AND ASSOCIATED THERMOSTAT.



SECOND FLOOR PIPING DEMOLITION PLAN - AREA D

1/8" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

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CKD By: AK

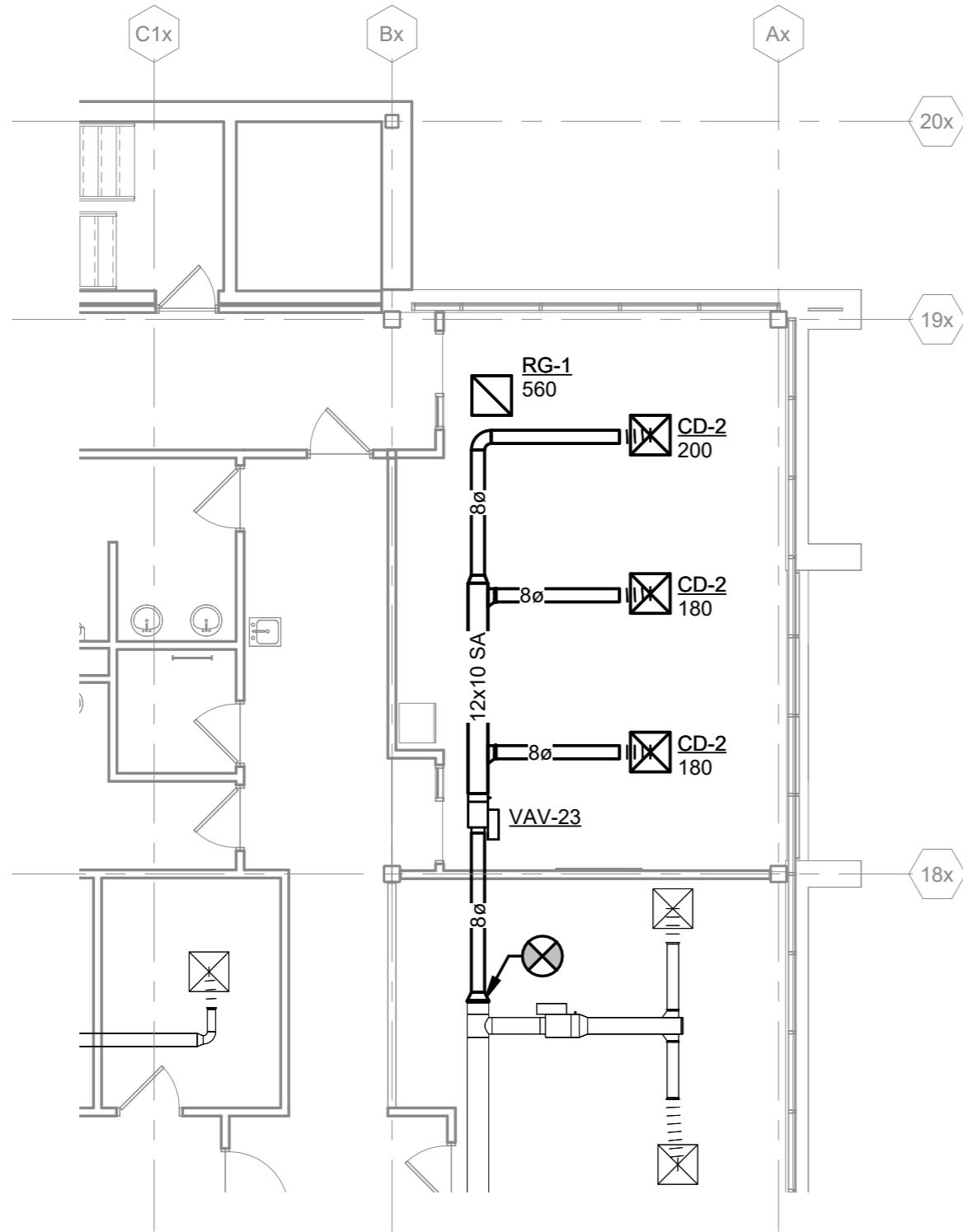
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SECOND FLOOR PIPING DEMOLITION PLAN - AREA D

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GENERAL HVAC NOTES

1. INLET DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS INLET SIZE UNLESS OTHERWISE NOTED. IF RUNOUT TO AIR TERMINAL BOX IS GREATER THAN 6 FEET IN LENGTH, SIZE RUNOUT ONE EVEN INCREMENT SIZE LARGER (MINIMUM 2" LARGER) UNLESS OTHERWISE NOTED TO WITHIN 3 FEET OF BOX BEFORE REDUCING TO BOX INLET SIZE.
2. DUCTWORK DOWNSTREAM OF AIR TERMINAL BOXES TO BE INTERNALLY LINED FOR A MINIMUM OF 5'-0" FOR SOUND ATTENUATION. OUTLET DUCT SIZES TO MATCH AIR TERMINAL BOX OUTLET UNLESS NOTED OTHERWISE.
3. PROVIDE MANUAL BALANCE DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKE-OFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK EXCEPT KITCHEN GREASE EXHAUST DUCT. LOCATE BALANCE DAMPER AS CLOSE TO BRANCH TAKE-OFF AS POSSIBLE. PROVIDE CABLE OPERATED BALANCING DAMPERS FOR ALL AIR DEVICES LOCATED IN INACCESSIBLE CEILINGS.
4. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS NOTED OR DETAILED OTHERWISE.
5. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN.
6. PROVIDE FLEXIBLE DUCTWORK FOR FINAL CONNECTIONS TO SUPPLY AIR DIFFUSERS UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS. FLEXIBLE DUCT SIZE SHALL BE SAME AS NECK SIZE OF DIFFUSER AND SHALL NOT EXCEED 5 FEET IN LENGTH.
7. PROVIDE PLENUM RATED INSULATION AND WIRING IN RETURN AIR CEILING PLENUM. MATERIALS WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME AND SMOKE SPREAD INDEX OF NOT MORE THAN 25/50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

KEYED NOTES

1 SECOND FLOOR HVAC PLAN - AREA D
1/8" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

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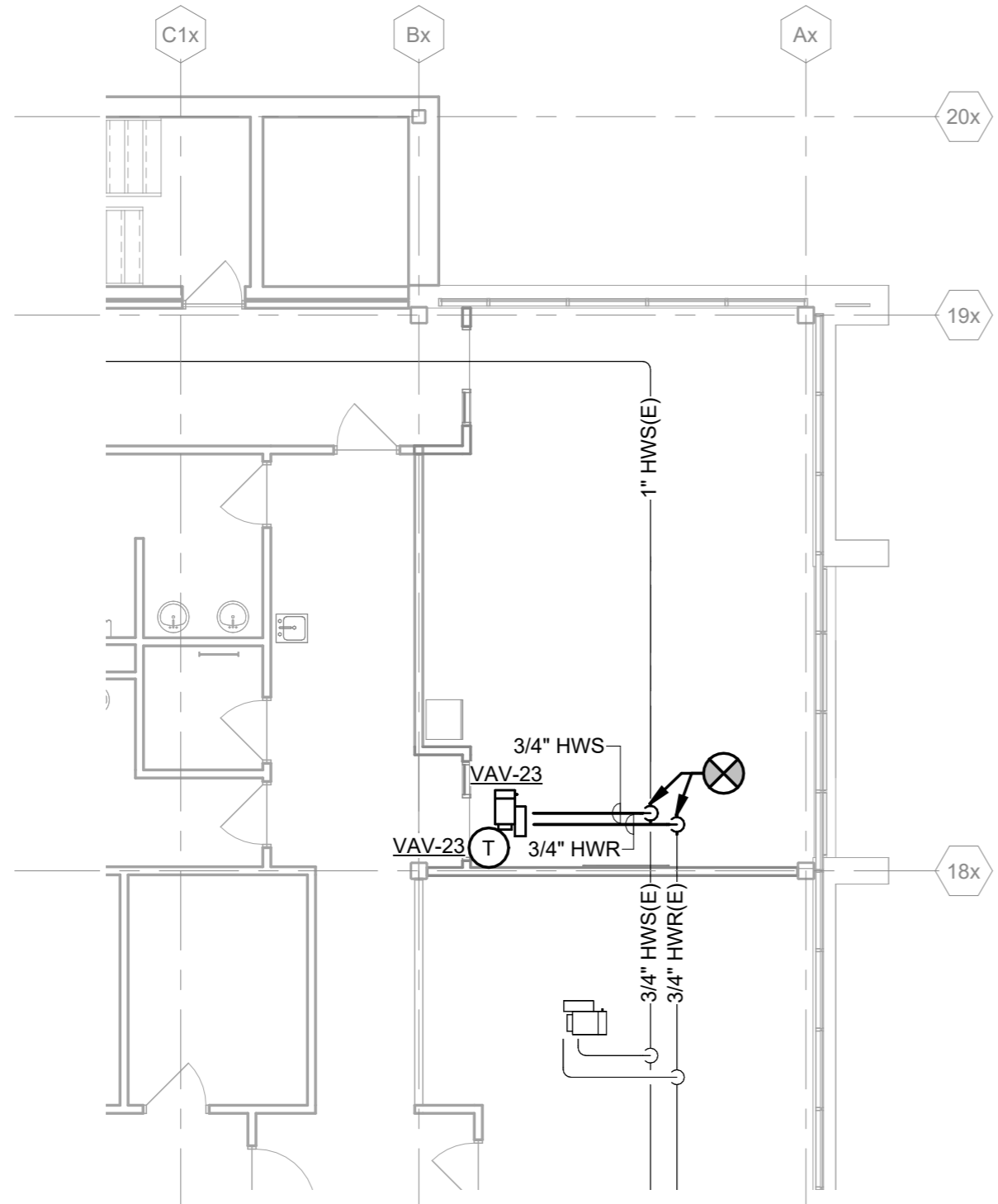
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SECOND FLOOR HVAC PLAN - AREA D

M-02

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GENERAL PIPING NOTES

1. PIPING RUNOUTS TO ALL EQUIPMENT TO BE 3/4" UNLESS NOTED OTHERWISE.
2. WELD-O-LETS AND THREAD-O-LETS MAY BE USED FOR BRANCH TAKE-OFFS UP TO ONE-HALF THE DIAMETER OF THE MAIN.
3. INSTALL DIELECTRIC FITTINGS WHERE PIPING OF DIFFERENT MATERIALS IS JOINED.
4. INSTALL PIPING FREE OF SAGS AND BENDS.
5. LOCATE ALL VALVES FOR EASY ACCESS. INSTALL VALVES WITH STEM UP OR HORIZONTAL.
6. INSTALL DRAIN VALVES AT ALL LOW POINTS IN PIPING SYSTEM AND ELSEWHERE AS REQUIRED FOR SYSTEM DRAINAGE. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING, AT HEAT-TRANSFER COILS, AND ELSEWHERE AS REQUIRED FOR SYSTEM AIR VENTING.

KEYED NOTES

1 SECOND FLOOR PIPING PLAN - AREA D
1/8" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

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SECOND FLOOR PIPING PLAN - AREA D

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AIR OUTLET AND INLET SCHEDULE																	
MARK	MANUFACTURER, MODEL NUMBER	APPLICATION	(1) MAX AIRFLOW (CFM)	OUTLET / INLET	TYPE	MOUNTING SYSTEM	(2) DAMPER	(3) FACE SIZE (IN)	NECK SIZE (IN)	(4) MAX NOISE LEVEL (NC)	PATTERN	MAX SP (IN WG)	FINISH	MATERIAL	ACCESSORIES	REMARKS	
CD-1	TITUS, TMS	SUPPLY	110	1	9	1	NONE	24x24	6	24	4-WAY	0.1	W	STEEL	24x24 LAY-IN PANEL	(2)	
RG-1	TITUS, PAR	RETURN	700	3	4	1	NONE	24x24	16	20	-	0.1	W	STEEL	24x24 LAY-IN PANEL		
OUTLET/INLET		TYPE			MOUNTING SYSTEM				DAMPER			FINISH					
1	DIFFUSER	1	SINGLE DEFLECTION	9	LOUVERED	1	T-BAR CEILING	N	NONE	M	MILL						
2	REGISTER	2	DOUBLE DEFLECTION	10	HOODED	2	PLASTER/CONCRETE CEILING	BF	BUTTERFLY	W	MFR. STANDARD WHITE						
3	GRILLE	3	FIXED BLADE	11	DOOR TRANSFER	3	PLASTER/MASONRY WALL	G	GRAVITY	S	MFR. SPECIAL COLOR						
4	LOUVER	4	PERFORATED	12	BRICK	4	EXPOSED DUCTWORK	MP	MOTORIZED PNEUMATIC	A	ANODIZED ALUMINUM						
5	PENTHOUSE	5	LINEAR	13	PUNKAH	5	METAL PANEL WALL	ME	MOTORIZED ELECTRIC	P	PRIME COAT (FINAL COAT BY GC)						
6	VENT	6	PLENUM SLOT	14	LAMINAR	6	FLOOR	OB	OPPOSED BLADE	O	OTHER (SEE SPECIFICATIONS)						
		7	PLAQUE	15	DRUM	7	ROOF	PB	PARALLEL BLADE								
		8	EGGCRATE	16	SECURITY CEILING DIFFUSER	8	EXTERIOR STUD WALL	LL	LOW LEAKAGE, INSUL.								

REMARKS:

- (1) INDIVIDUALLY ADJUSTABLE AIRFOIL BLADE WITH 3/4" SPACING. FRONT BLADES PARALLEL TO THE SHORT DIMENSION. INITIALLY SET BLADES FOR APPROXIMATELY 30 DEGREE THROW.
- (2) INSULATE THE TOP OF THE DIFFUSER.
- (3) BLADES PARALLEL TO THE LONG DIMENSION WITH FIXED 30 DEGREE DEFLECTION AND 3/4" SPACING.

SUPPLY AIR TERMINAL (AT) SCHEDULE																		
MARK	MANUFACTURER, MODEL NUMBER	AHU	TYPE	AIR FLOW (CFM)			MAX. (1) PRESS. DROP (IN WG)	INLET SIZE (IN)	(2) HOT WATER REHEAT COIL							OUTLET SIZE (IN)	ACCESSORIES	REMARKS
				MAX.	MIN.	HEATING			CAP. (BTUH)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	FLOW (GPM)	PD (FT)			
VAV-23	SEE SPEC	AHU-1	1, 3	560	170	170	0.75	8	7,378	55	95	140	110	0.5	5.0	12x10	3,7	3, 4, 5
TYPE								ACCESSORIES										
1	PRESSURE INDEPENDENT		5	SERIES FAN POWERED	1	ELECTRIC HEAT	5	2-WAY TWO-POSITION VALVE BY TCC	9	FACTORY MTD TRANSFORMER								
2	PRESSURE DEPENDENT		6	PARALLEL FAN POWERED	2	FUSE	6	3-WAY TWO-POSITION VALVE BY TCC	10	FACTORY MTD DISCONNECT SWITCH								
3	SINGLE DUCT		7	BYPASS	3	DDC CONTROLS BY TCC	7	2-WAY PROPORTIONAL VALVE BY TCC										
4	DUAL DUCT				4	PNEUMATIC CONTROLS	8	3-WAY PROPORTIONAL VALVE BY TCC										

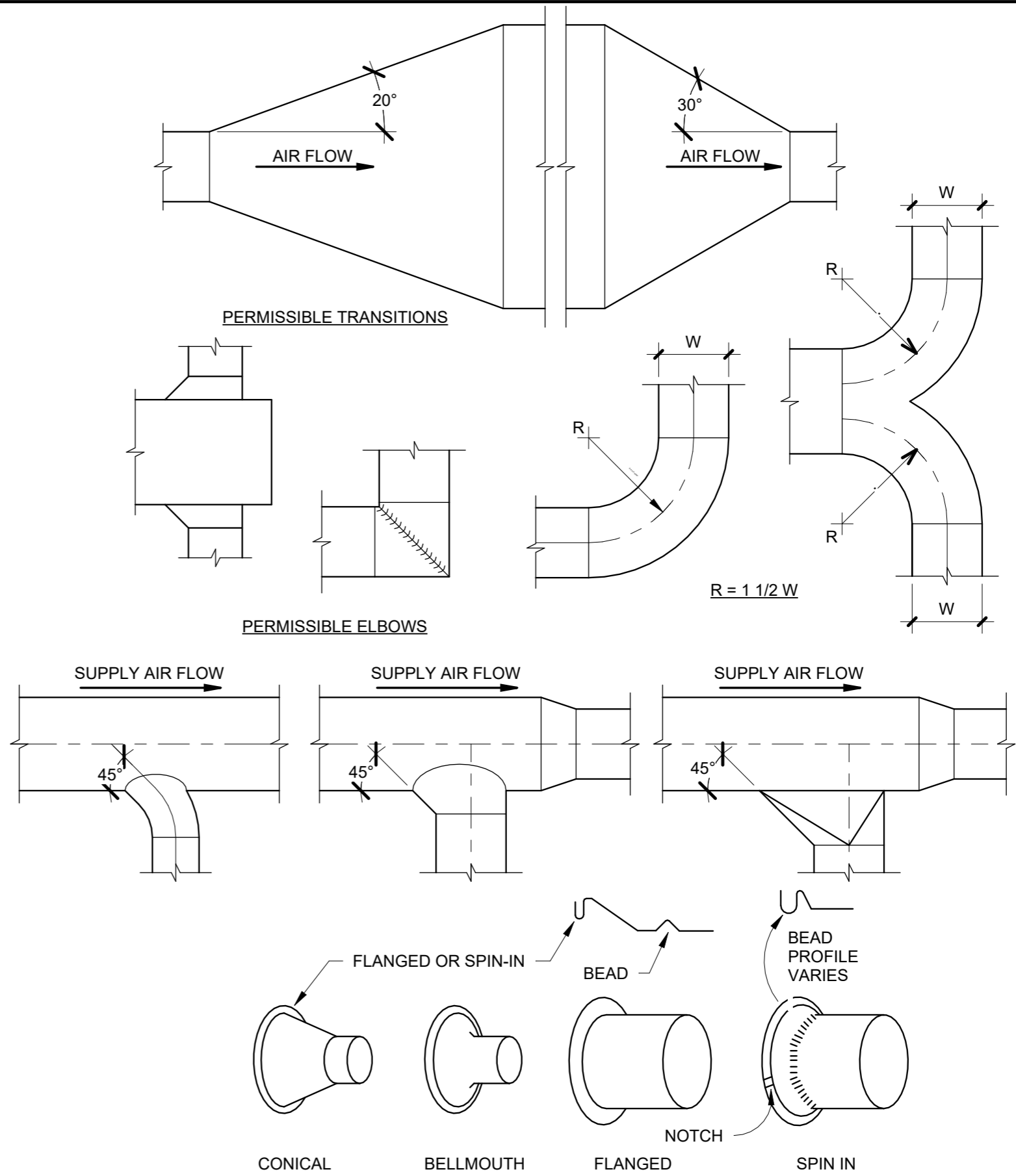
REMARKS:

- (1) EXTERNAL STATIC PRESSURE BASED ON MAXIMUM AIR FLOW RATE
- (2) HEATING CAPACITY OF REHEAT COIL BASED ON HEATING AIR FLOW RATE UNLESS OTHERWISE NOTED
- (3) INSTALL MINIMUM 6 LINEAL FEET OF DUCT LINER ON DISCHARGE SIDE OF AIR TERMINAL BOX.
- (4) ALL PIPING RUNOUTS TO AT BOXES TO BE 3/4" U.N.O.
- (5) INLET DUCT TO BE SAME SIZE AS AT BOX INLET SIZE U.N.O.

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1 TYPICAL DUCT TRANSITIONS AND FITTINGS

NO SCALE



PERMISSIBLE BRANCHES

NOTE: FOR OTHER FITTINGS AND CONNECTIONS FOUND ON DRAWINGS, CONSTRUCT PER SMACNA.



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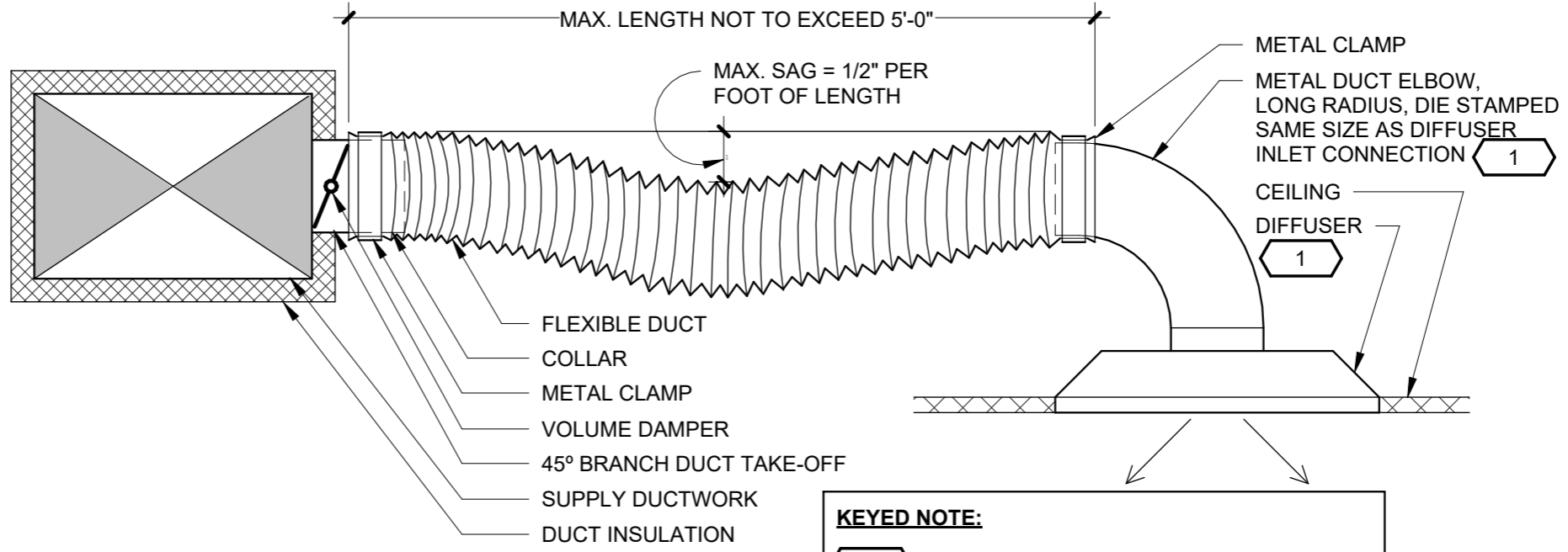
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CKD By: AK

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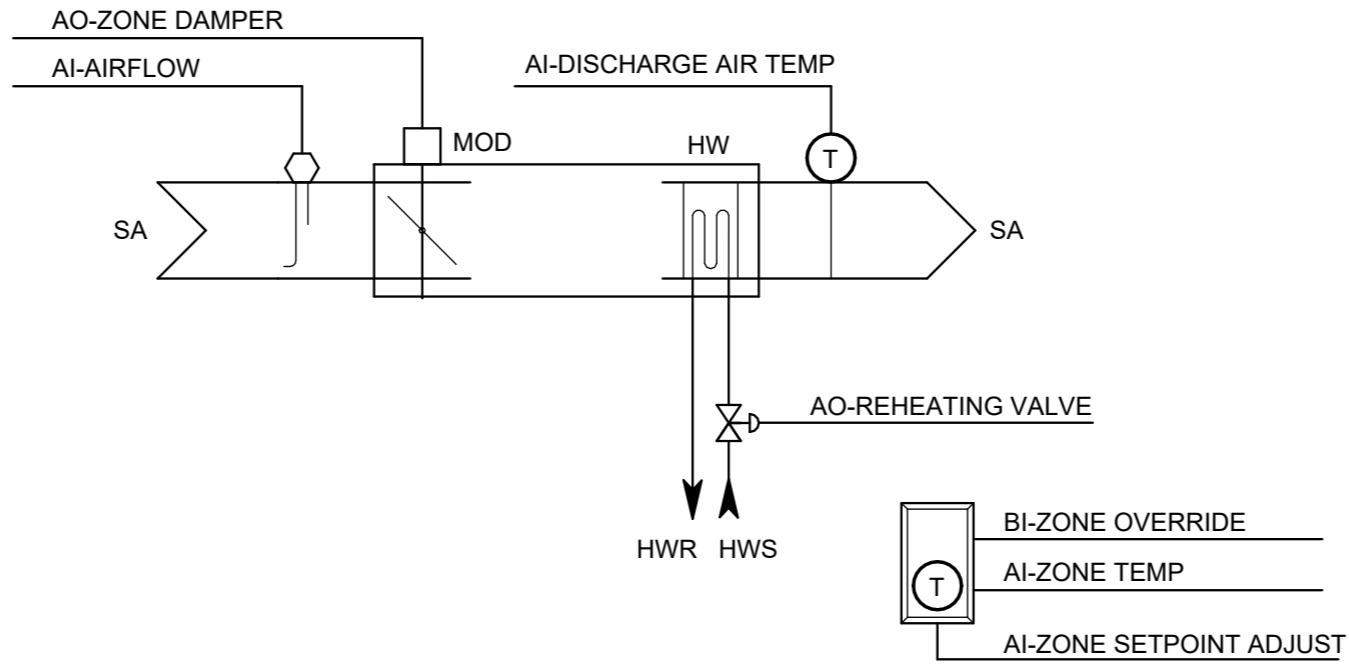
DETAILS

M-05.2



KEYED NOTE:
 1 FIELD INSULATE FOR SUPPLY AIR SYSTEM.

1 FLEXIBLE DUCT TO CEILING DIFFUSER
 NO SCALE



2 VARIABLE AIR VOLUME AIR TERMINAL - HOT WATER REHEAT
 NO SCALE

GENERAL NOTES:

1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK, VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
2. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) AND ABA (ARCHITECTURAL BARRIERS ACT).
3. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND FLOORS. MAKE RATED PENETRATIONS AS REQUIRED. SEAL ALL RATED PENETRATIONS. REFER TO DIV. 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
4. FLUSH-MOUNT ALL LIGHTING CONTROL DEVICES AT 42" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
5. FLUSH-MOUNT ALL RECEPTACLES AT 18" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
6. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL SCHEDULES PROVIDED. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS.
7. A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
8. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE. WHERE RACEWAY IS REQUIRED ON EXISTING CONCRETE AND MASONRY WALLS, SURFACE RACEWAY MAY BE USED IN LIEU OF CHANNELING WALLS TO ALLOW CONCEALED ROUTING. THE RACEWAY SHALL BE SINGLE CHANNEL STYLE TYPE WITH IVORY FINISH. THIS APPLIES FOR BRANCH CIRCUIT CONDUITS UP TO 3/4" SIZE. CONDUITS LARGER THAN 3/4" MAY BE ROUTED EXPOSED, BUT INSTALLED PARALLEL AND/OR PERPENDICULAR TO BUILDING LINES AND RUN AS UNOBTRUSIVELY AS POSSIBLE.
9. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
11. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
12. ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
13. CONTRACTOR TO PROVIDE SUITABLE MECHANICAL PROTECTION AROUND ALL CONDUITS STUBBED OUT FROM FLOORS, WALLS OR CEILINGS DURING CONSTRUCTION TO PREVENT BENDING OR DAMAGING OF STUB OUTS DUE TO CARELESSNESS WITH CONSTRUCTION EQUIPMENT.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
15. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
16. SCCR RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
17. ALL CONDUIT IN OPEN STRUCTURE CONCOURSE AREA FEEDING DEVICES FROM ABOVE SHALL BE RUN INSIDE ROOF ASSEMBLY, SEE ARCHITETURAL ROOF ASSEMBLY PLANS & DETAILS.

DEMOLITION GENERAL NOTES:

1. THE INFORMATION SHOWN IS BASED ON EXISTING DRAWINGS AND SITE OBSERVATIONS TO ASSIST CONTRACTOR IN BIDDING. THE ELECTRICAL DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. REFER TO SPECIFICATION SECTION 26 05 02 FOR ADDITIONAL REQUIREMENTS.
2. DASHED WALLS ON THE FLOOR PLANS INDICATE EXISTING WALLS BEING DEMOLISHED. REFER TO THE ARCHITECTURAL DEMOLITION PLANS FOR THE EXACT EXTENT OF WORK REQUIRED BY THIS PROJECT. REMOVE ALL DEVICES ON DASHED WALLS NOT SHOWN ON THE CONTRACT DRAWINGS. REFER TO DEMOLITION DRAWINGS OF OTHER TRADES. WHERE MOTORS CONTROL PANELS, AND OTHER LOADS OR APPARATUS THAT HAVE ELECTRICAL CONNECTION ARE BEING REMOVED, INCLUDE DISCONNECTION AND REMOVAL OF ALL ASSOCIATED CONDUIT, WIRING, ETC.
3. ELECTRICAL ITEMS (i.e., LIGHTING FIXTURES, PANELBOARDS, DISCONNECTS, MOTOR CONTROLLERS, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER, IN A STORAGE AREA TO BE DESIGNATED BY THE OWNER. EQUIPMENT BEING REMOVED SHALL BE HANDLED SO AS NOT TO FURTHER REDUCE ITS VALUE TO THE OWNER. THE CONTRACTOR SHALL DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
4. WHERE LIGHTS, SWITCHES, RECEPTACLES, ETC., ARE BEING REMOVED ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANELBOARD OR FEEDER JUNCTION BOX SERVING THE DEVICE SHALL ALSO BE REMOVED, UNLESS THE CONDUIT CAN BE REUSED FOR NEW CONDUCTORS. THE CONTRACTOR SHALL DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
5. ALL BOXES THAT REMAIN IN PLACE IN EXISTING MASONRY WALLS THAT ARE TO REMAIN SHALL BE PROVIDED WITH A BLANK COVERPLATE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH TYPE AND ATTACHMENT.
6. ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC., SHALL ALSO BE REMOVED. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.
7. THIS CONTRACTOR SHALL COORDINATE ALL WORK, INCLUDING PHASING WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING ELECTRICAL AND INSTALLING NEW ITEMS.





DEMOLITION GENERAL NOTES CONTINUED:

8. EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
9. MAINTAIN CIRCUIT CONTINUITY OF DEVICES LOCATED OUTSIDE OF CONSTRUCTION AREA. DEVICE AND EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
10. CONTRACTOR SHALL REMOVE AND INSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
11. PROVIDE REVISED TYPED CIRCUIT DIRECTORY IN PANELBOARDS THAT HAVE CIRCUITS REMOVED OR ADDED CIRCUITS.
12. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT RACEWAY FLUSH WITH WALLS AND FLOORS, PATCH SURFACES TO MATCH EXISTING. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC. ASSOCIATED WITH RACEWAY REMOVAL.
13. DISCONNECT AND REMOVE ABANDONED LUMINAIRES, INCLUDING BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
14. DISCONNECT AND REMOVED ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.



RACEWAY SYMBOLS

- J** JUNCTION BOX - WALL MOUNTED




LINE TYPE KEY

-  NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
-  EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK DASHED LINE)
-  EXISTING TO REMAIN WORK (THIN SOLID LINE)
-  NEW WORK UNDER FLOOR BY THIS CONTRACTOR

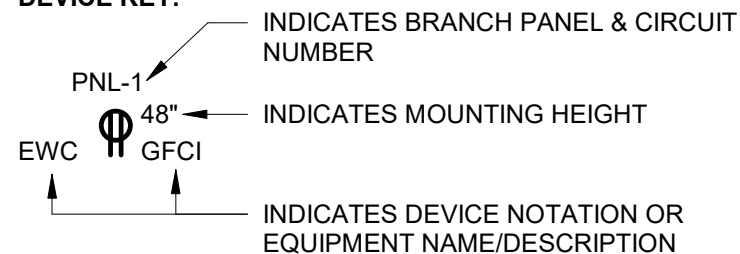
FIRE ALARM SYMBOLS

-  FIRE ALARM PULL STATION
-  ## CEILING MOUNTED FIRE ALARM SPEAKER/STROBE, (##) IS CANDELA RATING

WIRING DEVICE SYMBOLS



-  DUPLEX RECEPTACLE
-  DOUBLE DUPLEX RECEPTACLE
-  ABOVE COUNTER DUPLEX RECEPTACLE
- P** POKE THRU
- MB** MEDIA BOX. REFER TO SPECIFICATION SECTION 26 27 26 FOR ADDITIONAL INFORMATION.

DEVICE KEY:




SLASH MAY BE USED TO SEPARATE INFORMATION . EX: 48"/GFCI

MOTOR CONTROL & PROTECTIVE DEVICE SYMBOLS

-  ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZED PER NEC.
-  FUSIBLE DISCONNECT SWITCH








GENERAL SYMBOLS

- #/E-### DETAIL NUMBER / SHEET NUMBER
-  9.### KEYED NOTE, USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.

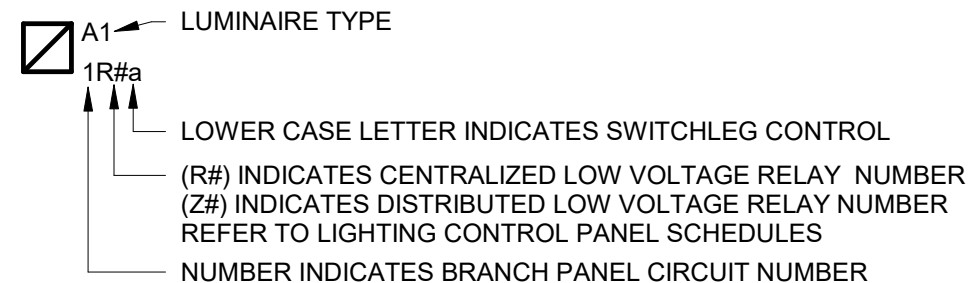
SERVICE & DISTRIBUTION SYMBOLS

-  PANELBOARD






LUMINAIRE SYMBOLS

-  RECESSED LUMINAIRE
-  RECESSED TROFFER
-  RECESSED LINEAR
-  PENDANT LINEAR/INDUSTRIAL LUMINAIRE
-  CEILING MOUNTED EXIT SIGN
-  WALL MOUNTED EXIT SIGN
-  EMERGENCY (NEC 700) SHADING MODIFIER

LUMINAIRE CIRCUITRY & CONTROL KEY:



LUMINAIRE CONTROL SYMBOLS

-  OCCUPANCY SENSOR CEILING MOUNT
- S** SINGLE POLE SWITCH
-  DAYLIGHT SENSOR
-  LIGHTING CONTROL PANEL (x REPRESENTS PANEL DESIGNATION)
-  UL 924 LISTED EMERGENCY LIGHTING BYPASS CONTROL UNIT
-  LOW VOLTAGE SWITCH * DENOTES SWITCH NAME, SEE LIGHTING CONTROL PANEL & SWITCH SCHEDULE.

SWITCH NOTATIONS:

- a,b LOWER CASE LETTERS DENOTE SWITCHLEG
- OSX DENOTES OCCUPANCY SENSOR (X REPRESENTS SCHEDULE DESIGNATION)

ELECTRICAL ABBREVIATIONS

3R	NEMA 3R RATING
4X	NEMA 4X RATING
A	AMPERES
A/E	ARCHITECT / ENGINEER
AAC	ABOVE ACCESSIBLE CEILING
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APE	AIRCRAFT PROCESS EQUIPMENT
ATS	AUTOMATIC TRANSFER SWITCH
BLDG	BUILDING
BRKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CEB	CONCRETE EQUIPMENT BASE
CF	CIRCULATION FAN
CH	CHILLER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CP	CIRCULATION PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CRP	CONDENSATION RETURN
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
DC	DROP CORD
DDC	DIGITAL CONTROL PANEL
DH	DUCT HEATER
DISC	DISCONNECT
DO	DOOR OPERATOR
DWG	DRAWING
E/O	ELECTRICAL-TO-OPTICAL CONVERTER
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ERL	EXISTING TO BE RELOCATED
ERLD	EXISTING - RELOCATED LOCATION
ES	EQUIPMENT SUPPLIER
ETR	EXISTING TO REMAIN
EWC	ELECTRICAL WATER COOLER
EWH	ELECTRICAL WATER HEATER
F	FUSED
FA	FIRE ALARM
FAF	FORCED AIR FURNACE
FCU	FAN COIL UNIT

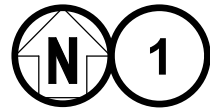
ELECTRICAL ABBREVIATIONS

GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GWH	GAS WATER HEATER
HD	HAND DRYER
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWB	HOT WATER BOILER
HWP	HOT WATER PUMP
IEWH	INSTANTANEOUS ELECTRIC WATER HEATER
IH	INFRARED HEATER
IMC	INTERMEDIATE METALLIC CONDUIT
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
LBS	POUNDS
LFS	LIGHTING FIXTURE SCHEDULE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MIN.	MINIMUM
MNS	MASS NOTIFICATION SYSTEM
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NL/EL	NIGHT LIGHT AND EMERGENCY LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RCP	RADIANT CEILING PANEL
RECPT	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RF	RETURN FAN
RGS	RIGID GALVANIZED STEEL CONDUIT MAY ALSO BE REFERENCED AS RMC OR GRC
RMC	RIGID METAL CONDUIT
RTU	ROOF TOP UNIT

ELECTRICAL ABBREVIATIONS

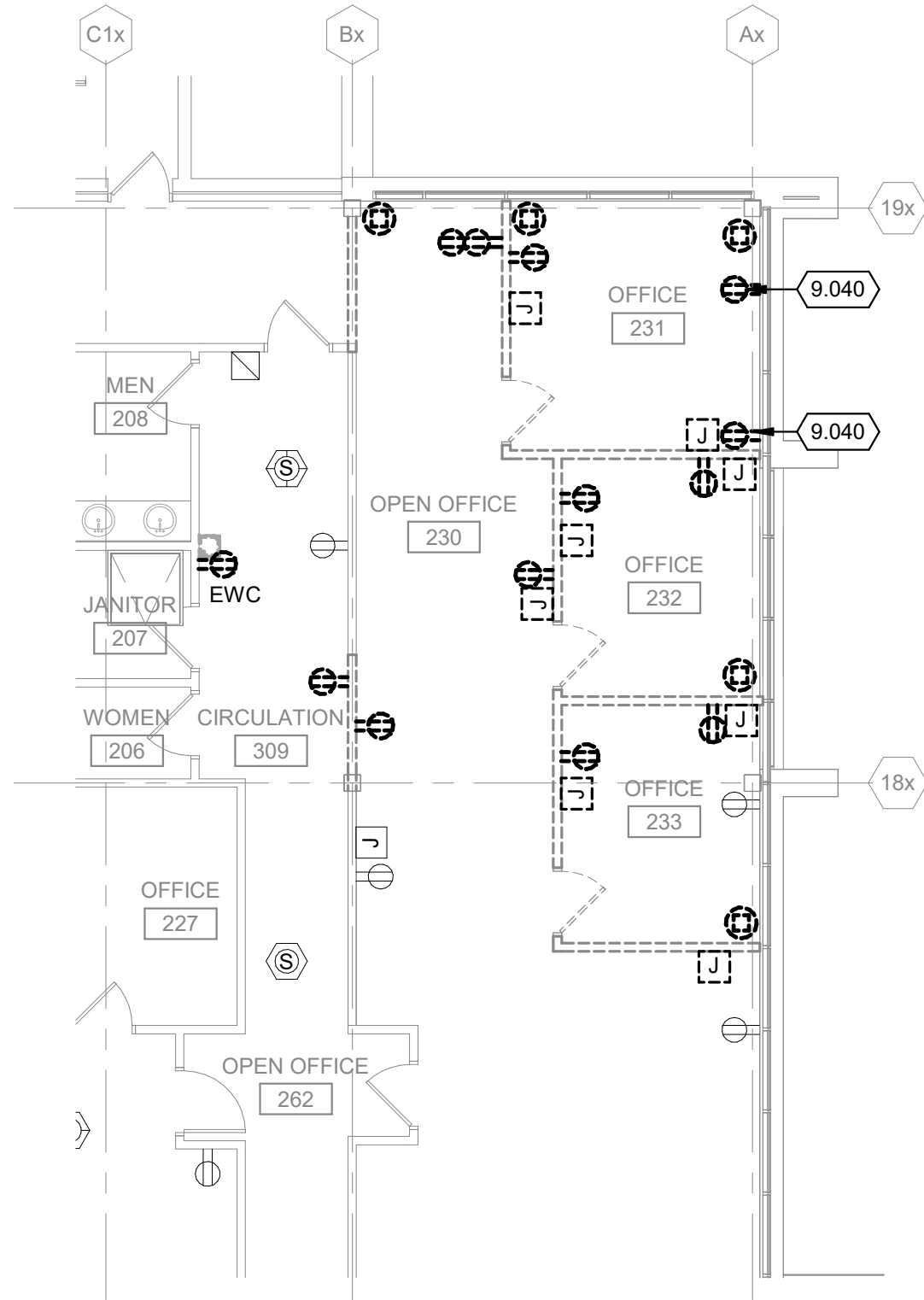
RW	REWORK EXISTING
S/N	SOLID NEUTRAL
SE	SERVICE ENTRANCE
SEC-P	SECURITY PANEL
SF	SUPPLY FAN
SP	SUMP PUMP
SS	STAINLESS STEEL
SW	SWITCH
SWBK	SWITCH BANK
TBR	TO BE REMOVED
TCP	TEMPERATURE CONTROL PANEL
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TYP	TYPICAL
UC	UNIT COOLER
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATER
V	VOLTS
VER	VEHICLE EXHAUST REEL
VFD	VARIABLE FREQUENCY DRIVE
VS	VERSUS
W	WATTS
WCC	WATER COOLED CONDENSER
WFE	WELDING FUME EXTRACTOR
WH	WATER HEATER
WL	WET LOCATION LISTED
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

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SECOND FLOOR POWER AND FIRE ALARM DEMOLITION PLAN - ADMIN CONFERENCE ROOM

1/8" = 1'-0"



KEYED NOTES

9.040 DISCONNECT AND REMOVE WIRING DEVICE AND BRANCH CIRCUIT. CONDUIT AND BACKBOX TO REMAIN FOR CONNECTION TO NEW DEVICE AS SHOWN ON E-20.

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

DRN By: KAF

CKD By: MAM

Drawing Reference Sheet No.:



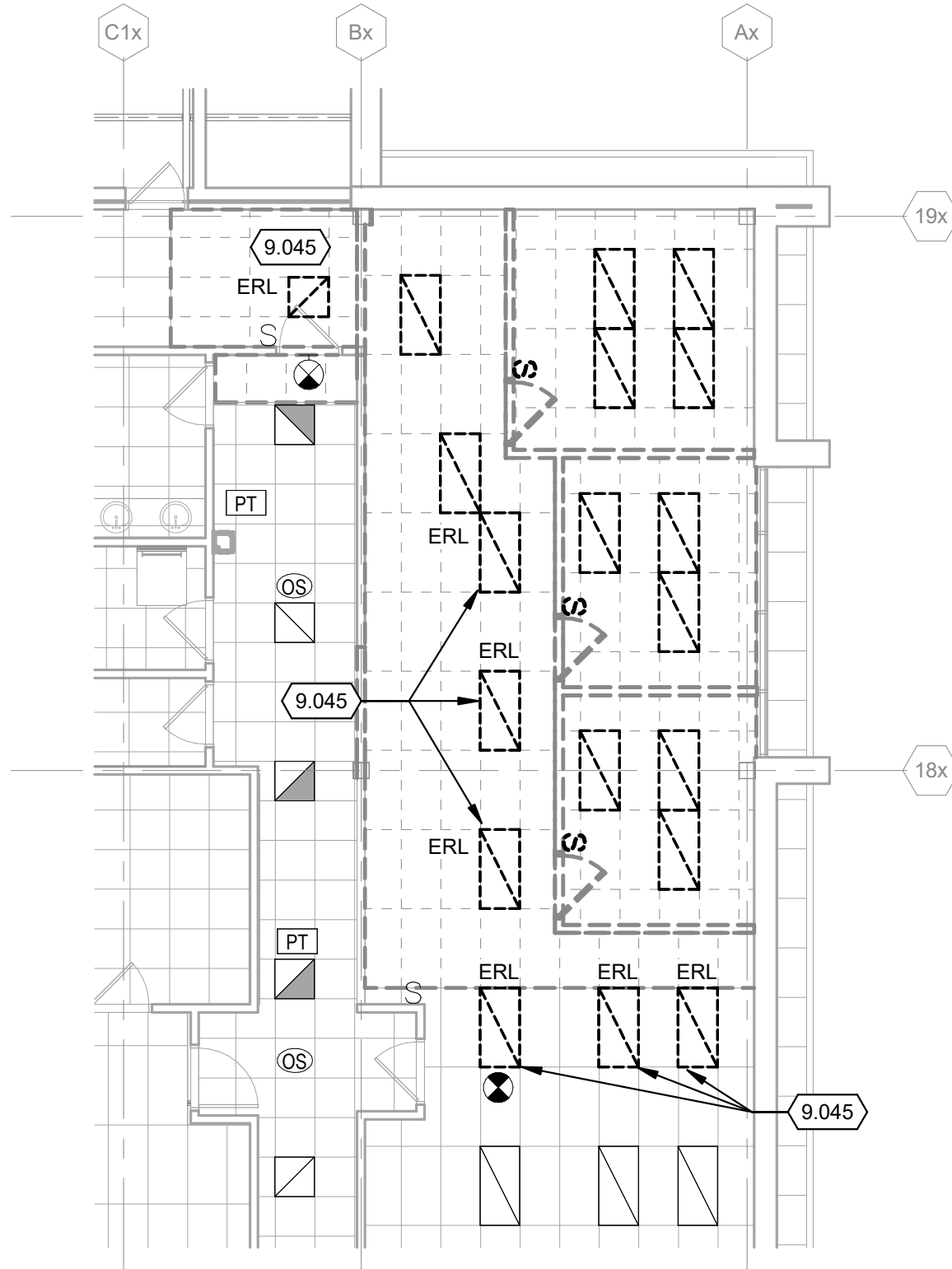
SECOND FLOOR POWER DEMO PLAN ADMIN CONFERENCE ROOM

ED-21



SECOND FLOOR LIGHTING DEMOLITION PLAN - ADMIN CONFERENCE ROOM

1/8" = 1'-0"



KEYED NOTES

9.045 LIGHTS NOTED AS ERL TO BE REMOVED AND STORED FOR RELOCATION IN NEW CEILING AS SHOWN ON NEW LIGHTING PLAN. MAINTAIN EXISTING BRANCH CIRCUITRY AND LIGHTING CONTROL WIRING IN PLACE FOR RECONNECTION TO RELOCATED LIGHTS (ERLD).

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

DRN By: KAF

CKD By: MAM

Drawing Reference Sheet No.:

SECOND FLOOR LIGHTING DEMO PLAN ADMIN CONFERENCE ROOM

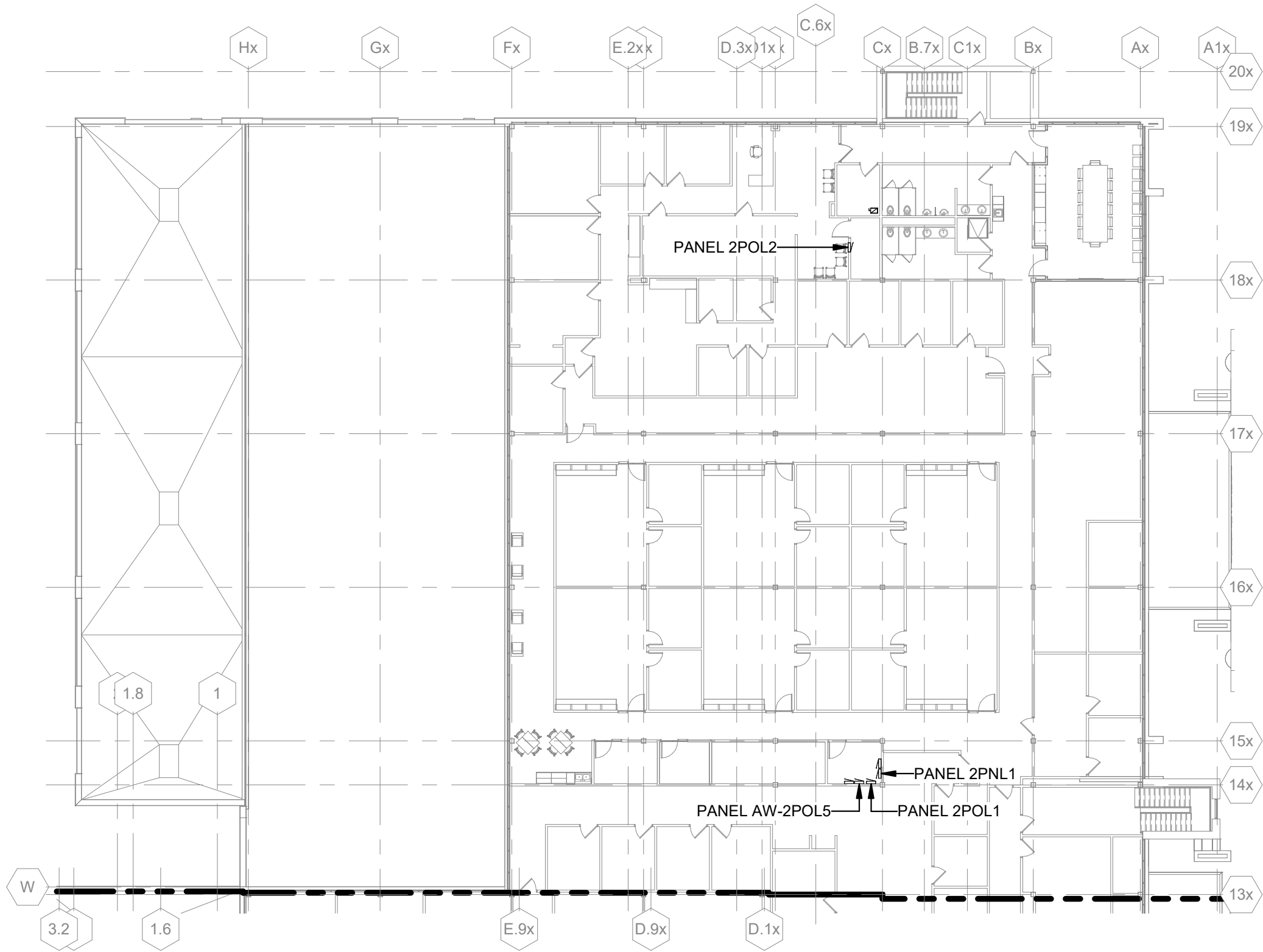
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GENERAL NOTES:

1. THIS SHEET SHOWS EXISTING PANEL LOCATIONS RELATIVE TO THE WORKING SPACE AND IS INCLUDED FOR REFERENCE



SECOND FLOOR POWER PLAN - AREA D

3/64" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

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CKD By: MAM

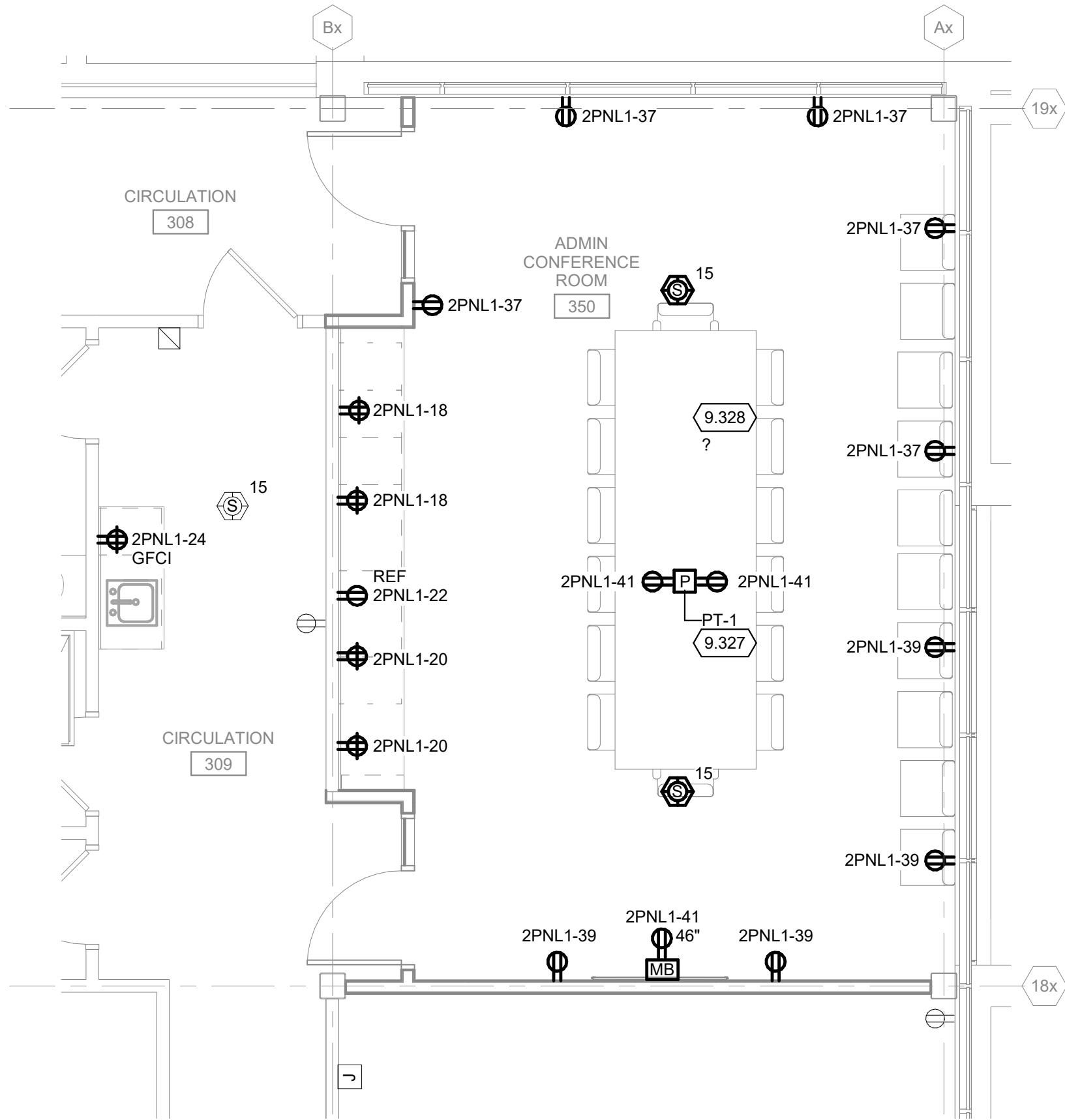
Drawing Reference Sheet No.:

SECOND FLOOR POWER PLAN - AREA D

E-20

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KEYED NOTES

- 9.327 PT-1: 4" FLUSH, FIRE-RATED POKE-THRU - (2) COMPARTMENTS CONSISTING OF: (2) 20 AMP, 125 VOLT, NEMA 5-20R DUPLEX RECEPTACLES. DIE-CAST COVER WITH 180 DEGREE HINGE IN BRUSHED ALUMINUM FINISH, FLUSH COVER, U.L LISTED FOR 2-HOUR RATED FLOORS. APPROVED MANUFACTURER - WIREMOLD 4AT.
- 9.328 PT-1: 4" FLUSH, FIRE-RATED POKE-THRU- (4) COMPARTMENT CONSISTING OF: (1) TECHNOLOGY OUTLET PLATE TO ACCEPT (1) 4-PORT STYLE LINE OUTLET FRAME, AND (3) SPARE BLANK OUTLET PLATES. DIE-CAST COVER WITH 180 DEGREE HINGE IN BRUSHED ALUMINUM FINISH, FLUSH COVER, U.L LISTED FOR 2-HOUR RATED FLOORS. APPROVED MANUFACTURER - WIREMOLD 4AT.



1

ENLARGED ELECTRICAL PLAN - ADMIN CONFERENCE ROOM

1/4" = 1'-0"

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

DRN By: KAF

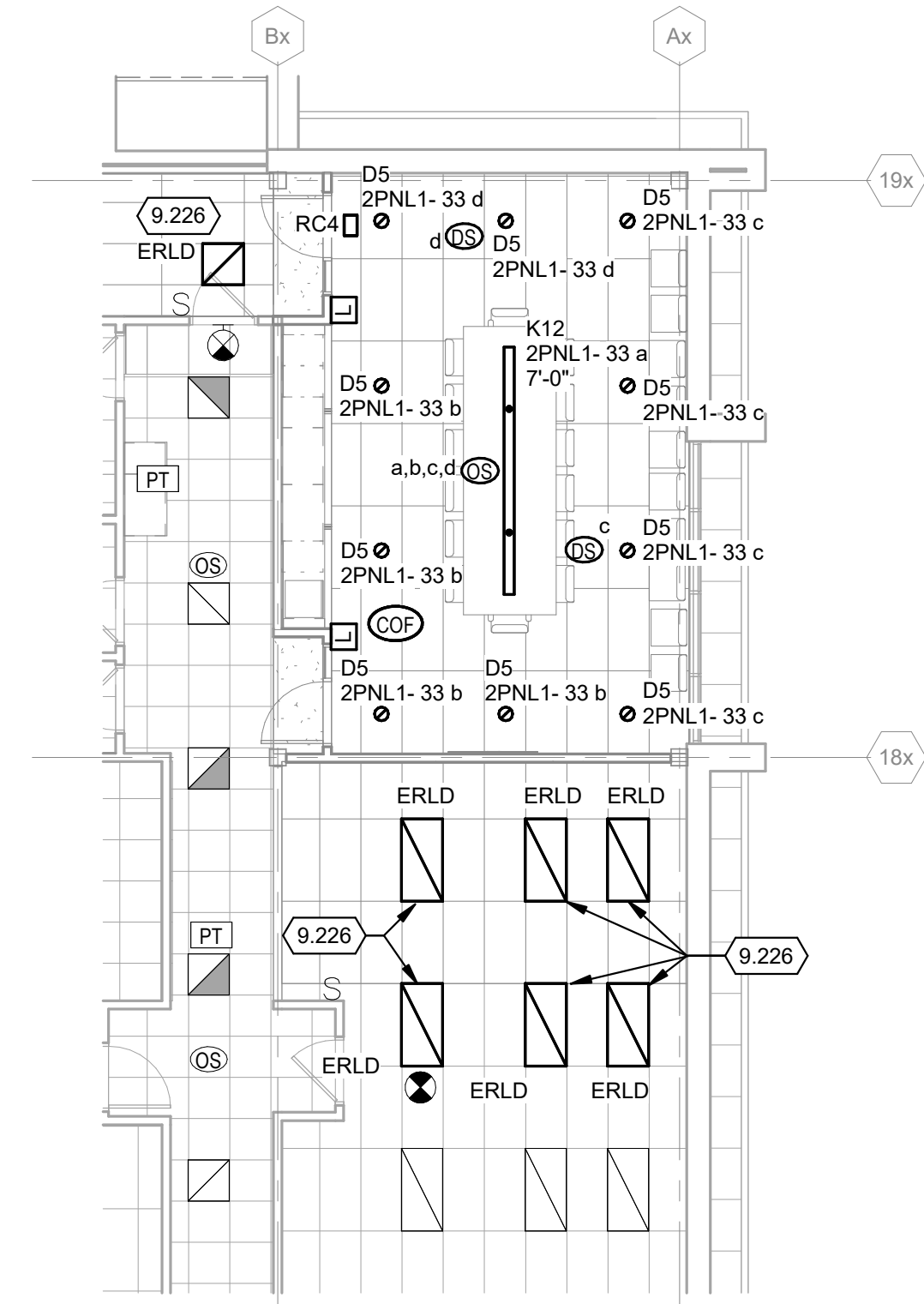
CKD By: MAM

Drawing Reference Sheet No.:

ENLARGED ELECTRICAL PLAN - ADMIN CONFERENCE ROOM

E-21

Mead & Hunt



**SECOND FLOOR LIGHTING PLAN -
ADMIN CONFERENCE ROOM**



1/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE EGRESS LIGHTING AND EXIT REQUIREMENTS WITH ARCHITECTURAL LIFE SAFETY PLANS.
2. ALL EXIT SIGNS TO BE WIRED TO EMERGENCY CIRCUIT SERVING THE AREA.
3. CONDUIT AND WIRING MAY NOT BE SHOWN GRAPHICALLY ON THE PLANS. PROVIDE COMPLETE CONDUIT AND WIRING BASED ON IDENTIFICATION OF CIRCUIT NUMBERS, RELAY NUMBERS AND SWITCHING IDENTIFICATION.
4. WHERE OCCUPANCY SENSORS ARE SHOWN, PROVIDE APPROPRIATE TYPES AND QUANTITIES OF SENSORS TO ACCOMMODATE ROOM GEOMETRY. REFER TO PLAN SPECIFICATIONS FOR DETAILS. INSTALL OCCUPANCY SENSORS AT LOCATIONS RECOMMENDED BY MANUFACTURER. SEE OCCUPANCY SENSOR SHOP DRAWINGS FOR REFERENCE. COORDINATE LOCATIONS WITH DUCTWORK, PIPING AND EQUIPMENT PRIOR TO ROUGH-IN.

KEYED NOTES

- 9.226 EXTEND EXISTING BRANCH CIRCUIT AND LIGHTING CONTROL WIRING TO RELOCATED LIGHTS.

LUMINAIRE SCHEDULE ADMIN CONFERENCE ROOM

DES	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED DATA	VOLTAGE	MOUNTING	DRIVER TYPE	FIXTURE DEPTH	INPUT LOAD	LUMENS	ACCEPTACLE MANUFACTURERS
D5	GOTHAM	EVO4 40/05 AR LD MD MVOLT GZ1	4" RECESSED LED DOWNLIGHT	LED, 4000K	120 V	R	B/J	6 1/2"	8 VA	500	ALPHABET, LIGHTOLIER, PRESCOLITE, ATLANTIC LTG
K12	NEO-RAY	BAA S124 DIP C 350D 365U 8 40 C4 T1 W 12FO 1 U DD F W	12' LINEAR DIRECT/INDIRECT PENDANT	LED, 4000K	120 V	P	B/J		65 VA	350/FT DN 365/FT UP	NULITE, LUX ILLUMINAIRE, MERCURY, LITECONTROL, ELITE LTG

LUMINAIRE SCHEDULE GENERAL NOTES:

- ALL LED LUMINAIRES MUST COMPLY WITH LM-79 AND LM-80 TESTING STANDARDS. L70 LIFE SHALL HAVE A MINIMUM OF 50,000 HOURS.
- ANY PROPOSED SUBSTITUTIONS MUST BE SUBMITTED WITH PHOTOMETRIC CALCULATIONS AND CATALOG SHEETS WITH DATA TO PROVE EQUAL CHARACTERISTICS.

MOUNTING (MTG):

P = PENDANT
R = RECESSED

DRIVER: (SEE SPECIFICATIONS)

B LED DIMMABLE DRIVER (0-10V) - 1% DIM
J MULTI-VOLTAGE DRIVER

LIGHTING CONTROL SEQUENCE OF OPERATIONS ADMIN CONFERENCE ROOM

ROOM TAG	SPACE TYPE	MANUAL CONTROLS	OCC	PHOTO	NETWORKED	SEQUENCE OF OPERATIONS
CONFERENCE ROOM	COF	FOUR ZONE WALL STATION	DT	DS	Y	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHT ON AUTOMATIC OFF: 20 MINUTE DELAY, LIGHTS OFF WALL DEVICE: FOUR ZONE ON/OFF AND DIMMING FROM 100% TO 1%

LIGHTING CONTROL SEQUENCE OF OPERATIONS GENERAL NOTES:

- SEE LIGHTING PLANS AND ASSOCIATED KEYED NOTES FOR CIRCUITING, SWITCHING, RELAY PANEL AND ROOM CONTROLLER LOCATIONS.
- LOSS OF POWER ON THE NORMAL CIRCUIT SHALL SWITCH LUMINAIRES ON TO 100% RATED LIGHT OUTPUT, REGARDLESS OF DIMMER OR SWITCH POSITION OR MOTION SENSOR STATUS.
- ALTERING/CHANGING OF SCHEDULES BY THE USER/OWNER DURING NORMAL OPERATIONAL HOURS SHALL NOT CAUSE THE SYSTEM TO RESET AND LIGHTS TO BLINK, TURN OFF, OR CYCLE. ALL LIGHTING MUST BE MAINTAINED UNLESS SPECIFICALLY CHANGED TO TURN OFF OR ON.

DEVICE KEY:

OCC - OCCUPANCY/VACANCY SENSOR TYPES:

PROVIDE OCCUPANCY/VACANCY SENSORS USING TECHNOLOGY INDICATED TO SERVE SPACE. PROVIDE TYPE AND QUANTITIES OF SENSORS TO PROVIDE A MINIMUM OF 90% OF SPACE COVERAGE. PROVIDE TYPES AND QUANTITIES OF POWER PACKS/LOAD CONTROLLERS AS NEEDED TO CONTROL ZONES INDICATED ON PLANS.

- DT - DUAL TECHNOLOGY - PASSIVE INFRARED AND ULTRASONIC/MICROPHONIC
- N - NO OCCUPANCY SENSOR REQUIRED

PHOTO - DAYLIGHT HARVESTING PHOTOCELL TYPES:

PROVIDE PHOTOCELL TO ENABLE DAYLIGHT HARVESTING. WHERE LOCATIONS OF OCCUPANCY/VACANCY SENSORS ARE APPROPRIATE, PHOTOCELLS MAY BE INTEGRAL TO OCCUPANCY/VACANCY SENSORS.

- DS - DAYLIGHT DIMMING SENSOR, SINGLE OR DUAL ZONE BASED ON SWITCH LEGS
- N - NO DAYLIGHT SENSOR REQUIRED

NETWORKED - NETWORK CONNECTION TO SYSTEM HEAD-END:

PROVIDE LOW VOLTAGE CABLING AS REQUIRED TO CONNECT SPACE TO SYSTEM HEAD-END, ALLOWING FOR SCHEDULED CONTROL FROM SYSTEM TIME CLOCK, REMOTE CONTROL AND MONITORING, AND REMOTE PROGRAMMING.

- Y - CONNECTED TO SYSTEM HEAD-END
- N - NOT CONNECTED TO SYSTEM HEAD

Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01

Date: 03/13/26

DRN By: KAF

CKD By: MAM

Drawing
Reference
Sheet No.:

LIGHTING SCHEDULES - ADMIN CONFERENCE ROOM

E-60

**Mead
& Hunt**

SECTION 260000
ELECTRICAL SYSTEM SPECIFICATION

PART 1 - GENERAL

1.01 SCOPE

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section.
- B. The contractor shall follow Architectural plans and scope documents for type of systems, materials, and equipment to use.
- C. Obtain and pay for all permits and pay all electrical fees for permits and including but not limited to electrical permit and fire alarm submittal.
- D. Electrical includes all power lighting and systems as described herein. This section includes the following topics:

1.02 GENERAL REQUIREMENTS

- A. The contractor shall follow Architectural plans and scope documents for type of systems, materials, and equipment to use.
- B. All work shall be designed and installed in accordance with National, State, and Local Electrical Codes, laws, ordinances, and regulations. Comply with all applicable OSHA regulations.
- C. These specifications are intended to cover the complete installation of equipment and systems. The omission of expressed reference to any material or labor necessary for the proper execution of the specified work shall not relieve the Contractor from providing such additional labor and materials.
- D. This Contractor shall check the drawings and specifications pertaining to heating, ventilating, air conditioning equipment and shall include all work indicated to be performed by the Electrical Contractor. Specifications shall be referenced for each piece of motorized equipment.
- E. This Contractor shall refer to the specifications for all special equipment associated with and furnished under the General contract. Furthermore this Contractor shall include all electrical work associated with the installation of this equipment.

1.03 DEFINITIONS

- A. Certain terms used herein, on the drawings, and in the contract documents, shall be defined as follows:
- B. Provide. Furnish, install, and wire complete and ready for service.

- C. Exposed. Exposed to view in any room, hallway, passageway, or outside.
- D. Code. National, State and Local Electrical codes include OSHA requirements.
- E. Approval. The approval of the Architect in writing or by signed rubber stamp applied to drawings, illustrations, etc.

1.04 MATERIAL AND EQUIPMENT

- A. All material and equipment shall be new and of quality used for the purpose in good commercial practice and shall be the standard product of the listed manufacturers. Each major component of equipment shall have the manufacturer's name, catalog number, and capacity of rating on a nameplate, securely affixed on the equipment in a conspicuous place.
- B. All materials shall have a UL label where UL Standard and/or test exist.

1.05 WARRANTY

- A. Unconditionally guarantee work and all components thereof, for a period of one year from the date of substantial completion. Remedy any defects in workmanship and repair or replace any faulty equipment that shall appear within the guarantee period to the entire satisfaction of the Architect at no additional charge.

1.06 ELECTRICAL DEMOLITION AND ALTERATIONS

- A. The existing buildings shall remain in service during construction.
- B. Where the plans require existing equipment to be removed or relocated, removal shall include equipment associated with the device. Associated equipment shall include but not be limited to cover plates, backbox, conduit, fittings, and de-energized conductors. In instances where a device is removed but active conductors remain in the backbox and the box is mounted in a wall which is remaining, the backbox may remain and a blank cover plate provided. If removal of the box is specifically indicated on the plans the active conductors shall be intercepted at convenient, accessible locations and rerouted to allow existing box to be removed. When boxes are removed from existing walls which remain, it shall be the Electrical Contractor's responsibility to fill in openings and sand flush with adjacent surfaces. The General Contractor shall be responsible for finish work unless specifically indicated otherwise on the plans.

1.07 SUBMITTALS

- A. Submit to Engineer for review, the manufacturer's shop drawings and/or equipment brochures in quantities determined by the Architect for the following:
 1. Wiring Devices
 2. Lighting Fixtures
 3. Fire Alarm Notification Devices
 4. Distributed Digital Lighting Control System
- B. Shop drawings shall be submitted in advance of construction and installation so as to not cause delay in other Contractor's work.

- C. All data submitted for Engineer's review shall be numbered consecutively, shall be noted to correlate with the electrical drawings and shall bear:
- D. The name and location of the project
- E. The name of the Contractor, The date of submittal, The date of the drawings and the date of each correction and revision
- F. If more than one type of lighting fixture (or other material) is on a submitted sheet, the proposed equipment shall be conspicuously checked with red pen by the Electrical Contractor.
- G. Shop drawings for different systems and equipment shall be bound separately by specification section and not bound by manufacturer. Submittals which contain different specification section systems bound together shall be returned unreviewed for resubmittal.
- H. Lighting Fixture shop drawings shall consist of a single submittal with all project light fixtures included. Submittals grouped by manufacturer shall not be accepted. The contractor shall be responsible for coordinating drawings from his various suppliers in order to comply with this requirement.
- I. The Contractor shall examine shop drawings and equipment brochures prior to submission. The Contractor shall verify that the materials and equipment depicted will properly fit into the construction.
- J. No materials or equipment subject to prior review by the Engineer shall be fabricated or installed by the Contractor, without approval. The Engineer's review of shop drawings shall not relieve the Contractor of responsibility for deviations from the requirements of the drawings and specifications unless prior approval for such deviations has been granted.

1.08 MAINTENANCE MANUALS

- A. The Electrical Contractor shall assemble and submit to the Owner three complete sets of a Manual of Operation and Maintenance for each of the electrical and communications systems.
- B. Each manual shall consist of a loose leaf bound volume instructing the Owner's personnel in the use, operation, and maintenance of the system in question. The manual shall cover all phases of operation of the equipment and shall be illustrated with photographs, drawings, wiring diagrams, etc. Manuals shall accurately describe the operation, construction and adjustable features of the complete system and its component parts. The manual shall be complete with equipment parts listing to facilitate the ordering of spare and replacement parts.
- C. Submitting the manuals indicating which equipment manuals they propose to provide in this format.
- D. Each manual shall contain two sets of final shop drawings depicting equipment as installed.

1.09 TESTING

- A. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
- B. Any conductors that fail the above mentioned tests shall be replaced and those new conductors shall be tested and meet the requirements mentioned above.

1.10 DESIGN CRITERIA / SYSTEMS DESCRIPTIONS

- A. Firestopping
 1. Fire stopping materials shall include, but not be limited to, mortars, sealants and caulks, putties, collars, intumescent wrap strips mastics, and firestop pillows. All materials and methods used shall be recognized by an independent testing agency and shall have flame and temperature ratings assigned by that agency.
 2. Materials using solvents or those requiring hazardous waste disposals shall not be used.
 3. The firestop assemblies shall meet the entire fire test and hose stream test requirements of an independent testing agency.
 4. Acceptable Manufacturers: 3M Corporation, Rectorseal Corporation, and Hilti.
 5. Openings in fire rated construction and annular spaces around conduits, and other penetrating items shall be protected in accordance with NEC article 300-21 and in accordance with the Wisconsin Administrative Code, Department of Commerce Chapter 51.049. The fire rating of the protective seal shall be at least that of the floor or wall into which it is installed, so that the original fire rating of the construction is maintained.
 6. All wall or floor penetrations openings shall be as small as possible. All openings and annular spaces required by code to be protected shall be protected. Installation of materials and assemblies shall be in strict accordance with the manufacturer's instructions.
- B. Access panels
 1. All access panels required by code or otherwise to electrical service equipment shall be supplied and installed by Electrical Contractor.
- C. Identification
 1. Junction and pull boxes smaller than 12" X 12" shall be identified by using a permanent marker on the cover plate indicating originating panelboard and circuit(s) or system served.
 2. On the inside of cover plates for light switches, occupancy sensors, receptacles, and special purpose outlets, provide a permanent label identifying the panel and circuit number feeding the device. Adhesive plastic tape will be permitted for this use.
 3. On light fixtures at the wiring entrance point, provide a permanent label identifying the panel and circuit number feeding the fixture. Adhesive plastic tape will be permitted for this use.
 4. Identify each conductor at each; connector, splice point, and termination with permanently attached wrap-around adhesive markers as manufactured by Brady Co or equivalent. This identification shall include; source (i.e., panel name), branch circuit number, control circuit, and any other appropriate number or lettering that will expedite future identification and troubleshooting.
 5. Provide a color-coded conductor installation as recommended by the National and State Electrical Code.
- D. Mechanical Connections
 1. Provide power to all mechanical equipment, at the voltage and current necessary for a complete and operating system. Wire all starters/controller and provide all disconnects required by the NEC.
- E. Grounding
 1. Provide a grounding system as required by utility, the NEC, and the IEEE Green Book. Provide grounding to all transformers, and bonding to all metallic piping systems, steel structure and as required by the NEC. Provide an exposed copper ground bus in each server and room bonded to the building grounding system.

- 2. All branch circuits shall be grounded as required by the NEC. All feeders and branch circuits shall have a grounding conductor.
 - 3. Provide a green bonding jumper "pigtail" in every device box, splice junction box, and pull box. The device shall be bonded to the grounding wire, pigtail, and box and as required by the NEC.
- F. Americans with disabilities act ADA.
- 1. Complete building design must meet ADA guidelines.
- 1.11 WIRING METHODS
- A. The minimum circuit shall be 20 ampere.
 - B. Circuits for general lighting and receptacles shall be minimum 20 ampere.
 - C. Receptacle circuits shall be limited to six duplex receptacles per 120-volt circuit.
 - 1. Conduit
 - a. Install a complete conduit system as required to provide circuiting and switch arrangements as shown on the plans. Conduit sizes shall be as required by code. All conduits shall be routed concealed in finished spaces. Conduits may only be exposed in mechanical, electrical, and equipment rooms and unfinished storage spaces. Conduits shall be routed parallel and perpendicular to lines of construction, including conduits routed above accessible ceiling cavities.
 - b. The minimum size raceway for use on this project shall be 3/4" ID.
 - c. In general, interior raceways may be Electrical Metallic Tubing (EMT), Rigid Metal Conduit (RMC), Intermediate Metallic Conduit (IMC).
 - d. Flexible metallic conduit shall be used at conduit connection to motorize and/or other equipment subject to vibration. Flexible conduit length shall be between 24 and 36 inches. Liquid tight flexible metallic conduit shall be used for these types of connections where subject to moisture.
 - e. Flexible metallic conduit shall be used for connection of individual recessed lighting fixtures from an outlet box mounted within 4' -0" of the lighting fixture location. Flexible conduits for this application shall be 3/8" minimum.
 - 2. Couplings, connectors, and fittings
 - a. Fittings shall be steel set screw fittings with insulated throat.
 - b. Use standard items to properly attach conduits, outlet boxes, pull boxes, cabinets, etc., to provide a complete raceway system. Malleable or die cast fittings are not approved. All connectors shall have insulated throats; indentation type, and push-on type fittings are not acceptable. Bushing for rigid heavy wall conduit shall be reinforced insulated type used with double locknuts.
 - c. All fittings for use with IMC shall be threaded.
 - d. Fittings for use with EMT may utilize steel set screw fittings. Die cast fittings shall not be used. Indenter type fittings shall not be used.
 - 3. Outlet boxes
 - a. Provide outlet boxes by Appleton, Steel City, or Raco as required to accommodate the device indicated by symbol on the drawings, sized in accordance with code, with the following minimum requirements.
 - b. Outlet boxes shall be die formed, galvanized, and securely fastened in place and level with adjacent construction not dependent upon conduit for support. Provide 4" square boxes for receptacles and switches. Provide 4" hexagon boxes for ceiling outlets. Boxes shall be 2" minimum in depth.

- c. Multi-gang die formed boxes shall be provided for all devices indicated adjacent to one another on the plans.
- 4. Pull boxes and junction boxes.
 - a. Provide as required by code, of code gauge steel in sizes as required by the code. Covers shall be of the same material fastened with machine screws. Boxes and covers shall have galvanized finish, and they shall be securely fastened to structural members.
- 5. Conductors
 - a. Conductors shall be new soft drawn copper. All 600 volt conductors shall be stranded and dual rated THHN/THWN-2. #12 AWG shall be minimum size unless otherwise. Insulation shall be color-coded as required by code. Wire and cable for general interior use shall have 600-volt insulation.
 - b. Size branch circuits for length of run to allow no more than 3% voltage drop.
 - c. Conductors terminating at wired outlets shall extend at least eight (8) inches beyond outlet box conduit fitting.
 - d. Each phase conductor of each feeder shall be identified at both ends and at all accessible locations with colored plastic tape. Each phase shall be identified by different color per industry standards.
- 6. Wire joints, splices, and connectors
 - a. Spring Wire Connectors: Solderless spring type pressure connector with insulating covers for copper wire splices and taps. Use for conductor sizes 10 AWG and smaller.

1.12 WIRING DEVICES

- A. Provide factory fabricated, NEMA specification grade wiring devices in type, color, and electrical rating for service indicated. Provide wiring devices of one manufacturer. Wiring devices for use with stranded conductor shall have a clamping type terminal that can be physically tightened. The clamping device shall not be a spring type of clamp. The color of devices shall be Ivory. Acceptable manufacturers: Hubbel, Pass & Seymore and Leviton.
- B. Provide an insulated green grounding pigtail at every device bonded to the raceway system and grounding system wire.
- C. Provide wall plates for wiring devices, with ganging, cutouts, and metal screws for securing plates to devices. Screw heads colored to match finish of plate.
- D. Plates for flush mounted devices shall be of thermoplastic nylon, non-combustible, mar-proof thermosetting material, minimum 0.100" thick. The color of plates shall be ivory.

1.13 GROUNDING

- A. All branch circuits shall be provided with green equipment ground.
- B. Provide a green bonding jumper "pigtail" in every device box, splice junction box, and pull box. The device shall be bonded to the grounding wire, pigtail, and box and as required by the NEC.
- C. Ground all other electrical equipment as required by code.
- D. Complete raceway system shall be grounded so ground will be electrically continuous from source to all outlet boxes and equipment.

E. Provide bonding conductors as required to securely ground all electrical equipment enclosures, including lighting fixtures if they have metallic housing and are cord connected.

1.14 LIGHTING FIXTURES, BALLASTS, LAMPS

A. Refer to Luminaire Schedule on drawings.

1.15 VOICE/DATA COMMUNICATIONS RACEWAY SYSTEM

A. Outlet boxes for voice and data outlets shall be 4" square 2½" deep box, 1 gang ring, and a blank cover. Provide a 1" empty conduit between each box and the nearest accessible corridor ceiling cavity space.

1.16 DISTRIBUTED DIGITAL LIGHTNING CONTROL

A. Distributed Digital Lighting Controls (controls) as indicated on the drawings and as specified herein. The controls shall consist of a series of standalone digital load controllers and intelligent low-voltage devices dedicated to the room/space they are serving. All local devices shall be connected together via an In-Room Network, enabling digital communication between devices. Acceptable Manufacturer: ILC Intelligent Lighting Controls

B. The controls shall provide time-based, sensor-based (e.g. occupancy/vacancy and daylight sensors), and/or manual control as indicated in the lighting sequences of operation on the drawings. The controls shall turn lighting loads ON/OFF and shall dim the lighting where indicated.

C. The In-Room network shall be a free topology lighting control network using physical wiring connections and communication protocol designed to control a room/space/small area of a building.

D. Digital room devices connect to the In-Room network, which provides both communications and power to room devices.

E. Digital load controllers shall be simple to install and shall not have dip switches or potentiometers, or require special configuration.

F. ON/OFF/Dimming Load Controllers shall include multiple relay configurations per unit. Each dimming output channel must have an independently configurable minimum and maximum calibration trim level to set the dimming range to match the true dynamic range of the connected LED driver. Each relay will support one dimming output, and where indicated, one 0-10-volt analog output per relay will be provided for control of compatible LED drivers. The 0-10-volt output will automatically close upon loss of power to the Controller to ensure full light output from the controlled lighting.

G. DIGITAL MOTION SENSORS: Sensors shall be available in wall, ceiling, corner-mounted, or wall-switch configurations and use either passive infrared (PIR) sensing or, if dual technology, passive infrared combined with passive acoustic or ultrasonic sensing for room occupancy detection. These sensors can function together with other sensors to provide expanded coverage areas and shall include features such as sensitivity adjustment, time delay, detection technology options, and walk-through mode. Dual-technology sensors must offer independently configurable trigger modes to select the proper technology

according to space use, minimizing false triggers. Each sensor may be programmed to control specific loads within an In-Room network and shall allow remote programming through a handheld commissioning tool using a two-way infrared (IR) transceiver or by configuration via a local network device.

H. DIGITAL DAYLIGHT SENSORS: Digital daylighting sensors shall work with room controllers to provide automatic switching, bi-level, tri-level, or dimming daylight harvesting capabilities for any load type connected to a room controller. These sensors shall be interchangeable without the need for rewiring and must offer a sensor light level range from 1-250 foot-candles (fc). For switching daylight harvesting, the daylight sensor shall provide a field-selectable deadband (separation) between the "ON" setpoint and the "OFF" setpoint to prevent excessive cycling after lights turn OFF. For daylight harvesting dimming, the sensor shall provide the option, when daylight contribution is sufficient, to either turn lights OFF or dim them to a field-selectable minimum level. A delay shall be incorporated into the photocell to prevent rapid response to passing clouds. Additionally, daylight sensors shall feature an independently configurable fade rate for both increasing and decreasing light levels, measured in percent-per-second, and provide an adjustable cut-off time (0-120 minutes), defined as the number of minutes the load remains at minimum output before turning off.

I. Install all room/space devices using manufacturer's factory-tested Cat 5e cable with pre-terminated RJ-45 connectors.

J. All wiring, except Class II low voltage control wiring, shall be installed in conduit. Class II low voltage control wiring may be run free-air and shall maintain 8 inches spacing from electronic ballasts and other RFI/EMI sources.

1.17 FIRE ALARM/DETECTION SYSTEM

A. Notification Appliance Devices: Visible Notification Appliances: LED strobe lights complying with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- high letters on the lens. Rated Light output 15/30/75/110 cd, selectable in the field. Acceptable Manufacturer: Match existing Simplex devices.

B. Voice/Tone Notification Appliances: Comply with UL 1480. Speakers for Voice Notification rated 2 to 15 watt, ceiling mounted and bi-directional and matching transformer. White housing with red lettering or picogram. Acceptable Manufacturer: Match existing Simplex devices.

C. Audible Alarm-Indicating Devices: Install where shown on the drawings. Wall- mounted audio and audio/visual alarm devices shall be mounted as noted on the drawings. Install flush-mounted back boxes with the device-operating mechanism concealed behind a grille. Install all devices at the same height unless otherwise indicated.

D. Fire Alarm Cabling Color Code: Provide circuit conductors with insulation color coding as follows or using colored tape at each conductor termination and in each junction box.
1. Power branch circuit conductors: In accordance with Section 260519.
2. Signaling line circuit: Overall red jacket with black and red conductors.
3. DC power supply circuit: Overall red jacket with violet and brown conductors.
4. Notification appliance circuit: Overall red jacket with blue and white conductors.

1.18 EXECUTION

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OUTGAMIE COUNTY
Project Title: ATW TERMINAL - CONCOURSE EXPANSION - PR 049-0

M&H NO.: 2309902-191756.08
Date: 05/23/2025
DRN By: BMA
CKD By: MAM
Drawing Reference Sheet No.:



SPECIFICATIONS

E-73

260000-9

- A. This Contractor shall provide a complete Electrical system as required for this project.
- B. Prepare and submit for approval, all applications and supplementary drawings required by code enforcement agencies. Secure and pay for all permits and licenses required.
- C. This Contractor shall perform all testing of equipment to assure the Electrical system is operating correctly.
- D. Properly label all electrical equipment as to its designation, source of power, and the load served by the equipment. Provide typewritten directories of individual circuits served from area distribution panelboards.
- E. Test all equipment and correct any defects prior to turning building over to the Owner.
- F. At the time of final clean-up all fixtures and equipment shall be thoroughly cleaned and left in proper condition for their intended use.
- G. This contractor shall provide operating and service manuals to the owner.
- H. This contractor guarantee all work in this division of the project for a period of one (1) year from the time the system has been placed in service.

END OF SECTION



OUTGAMIE COUNTY
Project Title: ATW TERMINAL - CONCOURSE EXPANSION - PR 049-0
M&H NO.: 2309902-191756.08 DRN By: BMA
Date: 05/23/2025 CKD By: MAM
Drawing Reference Sheet No.:

SPECIFICATIONS

E-74

GENERAL NOTES

1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO INSTALL COMPLETE TECHNOLOGY SYSTEMS AS INDICATED ON THESE DRAWINGS AND AS SPECIFIED.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK, VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
3. COORDINATE LOCATION AND MOUNTING REQUIREMENTS OF ALL CEILING-MOUNTED OR ABOVE-CEILING-MOUNTED DEVICES WITH REFLECTED CEILING PLAN, LIGHTING LAYOUT, SIGNAGE, AND OTHER CEILING OR ABOVE-CEILING-MOUNTED EQUIPMENT.
4. MOUNT ALL TECHNOLOGY OUTLETS AT HEIGHTS ABOVE FINISHED FLOOR AS SHOWN IN THE TECHNOLOGY OUTLET SCHEDULE U.N.O.
5. ALL TECHNOLOGY RACEWAY (CONDUIT, BACKBOX, SUPPORTS) SHALL BE PROVIDED BY DIVISION 26. SEE DIVISION 26 SPECIFICATIONS FOR GENERAL RACEWAY REQUIREMENTS. ADDITIONAL REQUIREMENTS INCLUDE:
 - PROVIDE A BEND RADIUS OF TEN TIMES THE OUTSIDE DIAMETER OR GREATER FOR ALL TECHNOLOGY RACEWAY.
 - PROVIDE A MINIMUM CONDUIT SIZE OF 1" UNLESS NOTED OTHERWISE.
 - PROVIDE PLASTIC OR NYLON BUSHINGS IN ALL CONDUIT STUBS PRIOR TO THE INSTALLATION OF CABLES.
6. MOUNT TECHNOLOGY SYSTEMS EQUIPMENT/DEVICES SO AS TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TECHNOLOGY SYSTEMS EQUIPMENT/DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE COORDINATED WITH AND APPROVED BY THAT CONTRACTOR IN ADVANCE OF INSTALLATION.
7. PROVIDE ALL OPENINGS REQUIRED IN WALLS. REPAIR ALL OPENINGS TO MATCH EXISTING USING A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. GROUT OR SEAL ALL CONDUITS THROUGH WALLS INTO OPENINGS. FIRESTOP ALL PENETRATIONS THROUGH FLOORS AND FIRE-RATED WALLS IN A MANNER THAT MAINTAINS THE RATING OF THE FLOOR OR WALL PENETRATED.

TECHNOLOGY DEMO GENERAL NOTES

1. THE INFORMATION SHOWN IS BASED ON EXISTING DRAWINGS AND SITE OBSERVATIONS TO ASSIST THE CONTRACTOR IN BIDDING. THE CONTRACTOR SHOULD VISIT THE SITE TO VERIFY EXISTING CONDITIONS. THE TECHNOLOGY SYSTEMS DRAWINGS INDICATE EXISTING TECHNOLOGY SYSTEMS ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY DEVICE, BOX, CONDUIT, WIRE OR CABLE THAT MUST BE REMOVED.
2. DASHED WALLS ON THE FLOOR PLANS INDICATE EXISTING WALLS BEING DEMOLISHED. REFER TO THE ARCHITECTURAL DEMOLITION PLANS FOR THE EXACT EXTENT OF WORK REQUIRED BY THIS PROJECT. REMOVE ALL DEVICES ON DASHED WALLS NOT SHOWN ON THE CONTRACT DRAWINGS. REFER TO DEMOLITION DRAWINGS OF OTHER TRADES. WHERE CONTROL PANELS AND APPURTENANCES THAT HAVE TECHNOLOGY SYSTEMS CONNECTIONS ARE BEING REMOVED, INCLUDE DISCONNECTION AND REMOVAL OF ALL ASSOCIATED CONDUIT, WIRING AND CABLING.
3. TECHNOLOGY SYSTEMS ITEMS (E.G. TECHNOLOGY OUTLETS, SECURITY SYSTEMS DEVICES, AUDIO DEVICES, CABLE) THAT ARE REMOVED AND NOT RELOCATED SHALL REMAIN THE PROPERTY OF THE OWNER. DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
4. OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF POWER TO TECHNOLOGY SYSTEMS EQUIPMENT OR DEVICES. COORDINATE ALL OUTAGES WITH THE OWNER.
5. PROVIDE A BLANK COVERPLATE FOR ALL BOXES IN EXISTING MASONRY WALLS THAT ARE TO REMAIN IN PLACE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH TYPE AND ATTACHMENT.
6. REMOVE ALL CONDUIT WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE OR CABLE AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC. SHALL BE REMOVED.
7. COORDINATE ALL WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING TECHNOLOGY SYSTEMS ITEMS AND INSTALLING NEW ITEMS.
8. EXISTING CONDUIT IN GOOD CONDITION MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.

TECHNOLOGY ABBREVIATIONS

&	AND
@	AT
A/E	ARCHITECT / ENGINEER
AC	ABOVE COUNTER
ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	(WIRELESS) ACCESS POINT
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BET	BUILDING ENTRANCE TERMINAL
BIDS	BAGGAGE INFORMATION DISPLAY SYSTEM
BLDG	BUILDING
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION
CL	CENTERLINE
CLG	CEILING
COAX	COAXIAL
COMM	COMMUNICATIONS
DSS	DIGITAL SATELLITE SERVICE
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EIA	ELECTRONIC INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EO	EQUIPMENT OUTLET
ERL	EXISTING TO BE RELOCATED
ERLD	EXISTING - RELOCATED LOCATION
ETR	EXISTING TO REMAIN
F/UTP	FOILED UNSCREENED TWISTED PAIR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FIDS	FLIGHT INFORMATION DISPLAY SYSTEM
FO	FIBER OPTIC
FPD	FLAT-PANEL DISPLAY
GC	GENERAL CONTRACTOR
GIDS	GATE INFORMATION DISPLAY SYSTEM
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
GRS	GALVANIZED RIGID STEEL
HH	HAND HOLE
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM

TECHNOLOGY ABBREVIATIONS

IMC	INTERMEDIATE METALLIC CONDUIT
IT	INFORMATION TECHNOLOGY
J-BOX	JUNCTION BOX
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MH	MAN HOLE
MIN	MINIMUM
MMFO	MULTIMODE FIBER OPTIC
MNS	MASS NOTIFICATION SYSTEM
MON	MONITOR
MPTL	MODULAR PLUG TERMINATED LINK
MTD	MOUNTED
MTR	MAIN TECHNOLOGY ROOM
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER-FURNISHED, CONTRACTOR-INSTALLED
OFOI	OWNER-FURNISHED, OWNER-INSTALLED
PA	PUBLIC ADDRESS
PTZ	PAN - TILT - ZOOM
PVC	POLYVINYL CHLORIDE
RCV	RECEIVER
REQ'D	REQUIRED
ScTP	SCREENED TWISTED PAIR
SE	SERVICE ENTRANCE
SMFO	SINGLEMODE FIBER OPTIC
SS	STAINLESS STEEL
STP	SHEILDED TWISTED PAIR
TBR	TO BE REMOVED
TC	TECHNOLOGY CONTRACTOR
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TO	TECHNOLOGY OUTLET
TR	TECHNOLOGY ROOM
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VMS	VIDEO MANAGEMENT SYSTEM
VSS	VIDEO SURVEILLANCE SYSTEM
WL	WET LOCATION LISTED
WP	WEATHERPROOF

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Project Title: ATW ADMINISTRATIVE CONFERENCE ROOM

M&H NO.: 2309902-251013.01
Date: 05/23/25

DRN By: DAM
CKD By: MJR

Drawing Reference Sheet No.:

ABBREVIATIONS

T-02

TECHNOLOGY OUTLET SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING	COMMENTS
▼	<u>TWO-PORT TECHNOLOGY OUTLET:</u> - (1) 1" CONDUIT - (1) 4-11/16" SQUARE x 2-5/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING - (1) SINGLE-GANG, TWO-PORT FACEPLATE - (2) CATEGORY 6 JACKS - (2) CATEGORY 6 CABLES	18" AFF TO CENTER OF BOX U.N.O.	
FP ▼	<u>FLAT-PANEL DISPLAY TECHNOLOGY OUTLET:</u> - (1) 1" CONDUIT STUB - (1) 4-11/16" SQUARE x 2-5/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING - (1) SINGLE-GANG, TWO-PORT FACEPLATE - (2) CATEGORY 6 JACKS - (2) CATEGORY 6 CABLES	AT CENTERLINE OF FLAT PANEL DISPLAY U.N.O.	INSTALLED IN AN AV BACKBOX, UNLESS NOTED OTHERWISE.
AP ▼	<u>WIRELESS ACCESS POINT:</u> - (1) 1" CONDUIT STUB - (1) 4-11/16" SQUARE x 2-5/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING - (1) SINGLE-GANG, TWO-PORT FACEPLATE - (2) CATEGORY 6A JACKS - (2) CATEGORY 6A CABLES	SEE COMMENTS	-BOX OR TWO-PORT SURFACE HOUSING AS NECESSARY TO MEET INSTALLATION CONDITIONS -INCLUDES 30' COILED SLACK CABLE FOR AP LOCATION ADJUSTMENT

TECHNOLOGY OUTLET SCHEDULE NOTES:

1. REFER TO DIVISION 26 SPECIFICATIONS FOR BOX AND CONDUIT SPECIFICATIONS AND EXECUTION REQUIREMENTS.
2. REFER TO DIVISION 27 SPECIFICATIONS FOR LOW-VOLTAGE CABLING PATHWAY REQUIREMENTS.

LINE TYPE KEY

	NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
	EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK DASHED LINE)
	EXISTING TO REMAIN WORK (THIN SOLID LINE)
	NEW WORK UNDER FLOOR BY THIS CONTRACTOR

COMMUNICATIONS SYMBOLS

MB MEDIA BOX

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CKD By: MJR

Drawing Reference Sheet No.:

SYMBOLS

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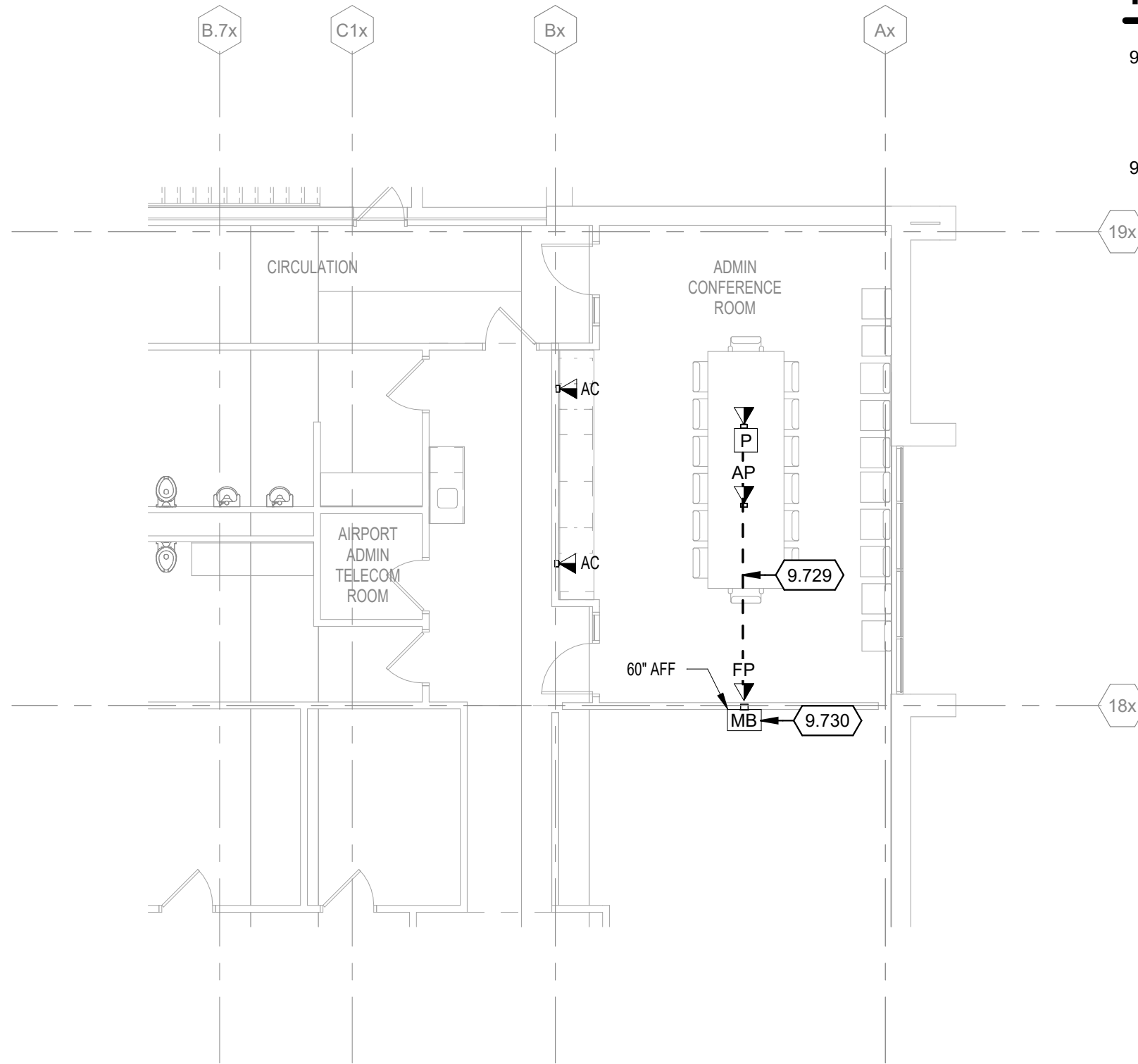
COMMUNICATIONS GENERAL NOTES

1. TERMINATE CAT6 CABLES IN THE ATW ADMINISTRATION TELECOM ROOM.

KEYED NOTES

9.729 PROVIDE (1) 1-1/4" CONDUIT FROM THE FLOOR POKE TO THE MEDIA BACKBOX LOCATED ON THE SOUTH WALL. REFER TO THE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION ON THE FLOOR POKE AND MEDIA BACKBOX.

9.730 PROVIDE AN AV MEDIA BACKBOX BEHIND THE DISPLAY FOR THE TECHNOLOGY OUTLET, ELECTRICAL OUTLET, AND THE OWNER'S AV CABLING. PROVIDE A CHIEF MODEL PAC525FCW (WHITE, FLANGED, WITH COVER), OR APPROVED EQUAL. COORDINATE INSTALLATION WITH DIVISION 26.



1 SECOND FLOOR PLAN AREA D - ADMIN CONFERENCE ROOM
 1/8" = 1'-0"

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ENLARGED TECHNOLOGY PLAN - ADMIN CONFERENCE ROOM

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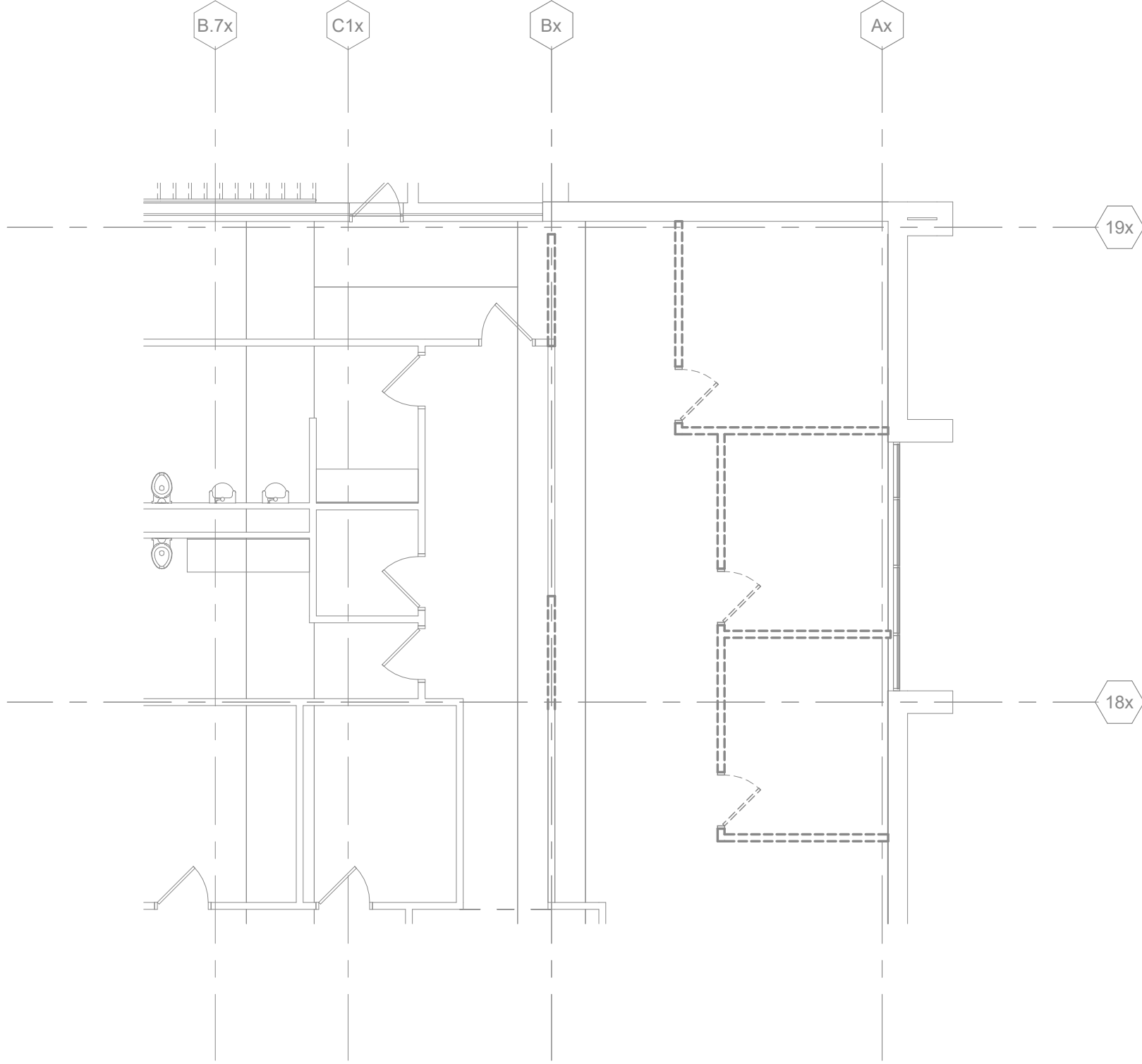


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SECOND FLOOR PLAN AREA D DEMO - ADMIN CONFERENCE ROOM

1/8" = 1'-0"



SECTION 270000
COMMUNICATIONS SYSTEMS SPECIFICATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes requirements to provide Category 6/6a cabling and requirements for identification of communications systems.

1.2 General Requirements

- A. Work to be performed under the Division 27 section includes all labor, materials, and equipment required to install complete technology infrastructure systems as described in these specifications and as shown on the drawings. This section includes information common to two or more technical specification sections or items that are of a general nature, not conveniently fitting into other technical sections.
- B. Before submitting a bid, Contractor shall examine drawings and specifications, visit the work site, and be informed of local conditions, all federal, state and local ordinances, regulations and all other pertinent items which may affect cost, schedule, and completion of this project.
- C. Drawings accompanying these specifications are a part of these specifications. Drawings are intended to show general arrangement, design, and extent of work and are diagrammatic. Drawings are not intended to show exact locations except where dimensions are shown. Any substantial differences existing between drawings and conditions in the field shall be submitted to the Architect and Construction Manager for consideration before proceeding with work. Technology work is shown on plans using standard industry symbols.
- D. Before ordering materials or doing work, the Contractor shall verify all measurements pertaining to work scope and assume installation responsibility for complete and fully functional technology and technology infrastructure systems.
- E. The technology/technology infrastructure work included in all other Divisions of this specification and related documents is the responsibility of the contractor performing the Division 27 work unless specifically noted otherwise.

1.3 STANDARDS, CODES AND REFERENCES

- A. The following standards and code documents will be recognized as references for acceptable installation of communications cabling infrastructure. Active knowledge of these documents is strongly recommended for the installation contractor. If any of these documents are in conflict either with each other or this document, the most stringent will apply and be the responsibility of the installation contractor to follow.

ANSI/TIA 568.0-E	Generic Telecommunications Cabling for Customer Premises
ANSI/TIA 568.1-E	Commercial Building Telecommunications Infrastructure Standard
ANSI/TIA 568.2-D	Balanced Twisted-Pair Telecommunications Cabling and Components Standard
ANSI/TIA-569-E	Telecommunications Pathways and Spaces
ANSI/TIA 606-D	Administration Standard for Telecommunications Infrastructure
ANSI/TIA-607-E	Telecommunications Bonding and Grounding (Earthing) for Customer Premises
ANSI/ICEA S-83-596-2021	Standard for Indoor Optical Fiber Cable
IEEE C2-2023	National Electrical Safety Code (NESC)

NFPA 70	National Electrical Code
NFPA 72	National Fire Alarm and Signaling Code
NFPA 75	Standard for the Protection of Information Technology Equipment
NFPA 101	Life Safety Code
BICSI TDMM	Telecommunications Distribution Methods Manual (15th Edition)
BICSI ITSIMM	Information Technology Systems Installation Methods Manual (8th Edition)
Telcordia GR-63	NEBS™ Requirements: Physical Protection
Telcordia GR-1089	Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment

1.4 COORDINATION

- A. Interruption of Existing Services: Do not interrupt technology services to facilities occupied by Owner or others unless permitted under the following conditions:
 1. Notify Owner no fewer than seven days in advance of proposed interruption of the technology service. Provide expected down time of service outage within the notification.
 2. If continuity of the service is required for business operations provide the plan and method to mitigate the outage by providing temporary service.
 3. Do not proceed with the interruption of service without Owner's written permission.
- B. Technology services include but are not limited to the following:
 1. Telephone service.
 2. Internet service.
 3. Network service (including disconnection via backbone cabling).
 4. Wi-Fi service.
 5. Public Address (PA) service.
 6. Physical Security Systems

1.5 SUBMITTALS

- A. Submit for all equipment and systems as indicated in this specification section. Mark general catalog sheets and drawings to indicate specific items being submitted and proper identification of equipment by name or number, as indicated in the contract documents. Failure to do this may result in the submittal(s) being returned to the Contractor for correction and resubmission. Failing to follow these instructions does not relieve the Contractor from the requirement of meeting the project schedule.
- B. Submit for shop drawings for cable pathways, patch panel elevations, and cable outlet layouts and identification.
- C. On request, the Contractor shall furnish additional drawings, illustrations, catalog data, performance characteristics, etc. to clarify intent of construction or operations.
- D. Submittals shall be grouped to include complete submittals of related systems, products, and accessories in a single submittal. Mark dimensions and values in units to match those specified. Include shop drawings, wiring diagrams, and rack layouts as requested for technology systems and infrastructure.
- E. The submittals must be approved before fabrication.

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1.6 PROJECT/SITE CONDITIONS

- A. Install Work in locations shown on Drawings, unless prevented by Project conditions.
- B. Prepare drawings showing proposed rearrangement of work to meet Project conditions, including changes to work specified in other Sections. Obtain written permission of Architect and Construction Manager before proceeding.
- C. Tools, materials, and equipment shall be confined to areas designated by the Construction Manager.

1.7 OPERATING AND MAINTENANCE MANUALS

- A. The Contractor shall assemble Operations and Maintenance manuals (3 copies) to provide to Owner.

1.8 AS-BUILT DRAWINGS

- A. A set of prints shall be kept at the job site upon which all changes and deviations from the original design are to be recorded daily. All changes shall be clearly marked. These drawings shall indicate as a minimum, all changes made to the drawings, changes in equipment locations, accurate locations of pathways not exposed, and all other significant changes and deviations from the original design.
- B. The daily record of changes shall be the responsibility of the Contractor's field representative. No arbitrary mark-ups will be permitted.
- C. At the completion of the project, the Contractor shall submit the marked-up record drawings to the Owners' construction representative prior to request for final payment.

1.9 QUALIFICATIONS

- A. Communications Cable Installer: Entity possessing active qualifications specified in Division 01 specifications for quality requirements and the following:
 - 1. Training and manufacturer certification to install, splice, and terminate communications cabling.
 - 2. Installation Supervisor: BICSI Technician (TECH) certification, a minimum of one BICSI TECH shall remain on-site for the duration of the project during all relative work.

PART 2 - PRODUCTS

2.1 GENERAL CABLE CHARACTERISTICS

- A. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with the applicable standard and NFPA 70 for the following types:
 - 1. Communications, Plenum Rated: Type CMP complying with UL 1685 or Type CMP in listed plenum communications raceway or Type CMP in listed cable routing assembly.
- B. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: 25 or less.

2. Smoke-Developed Index: 50 or less.

- C. RoHS compliant.
- D. Conductors: 100-ohm, 23 AWG solid copper.
- E. Shielding/Screening: Unshielded twisted pairs (UTP).
- F. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following
 - 1. Panduit.

2.2 CATEGORY 6 TWISTED PAIR CABLE

- A. Description: Four-pair, balanced-twisted pair cable, certified to meet transmission characteristics of Category 6 cable at frequencies up to 250MHz.
- B. Standard: Comply with NEMA WC 66/ICEA S-116-732 and TIA-568.2-D for Category 6 cables.
- C. Jacket: Blue thermoplastic.

2.3 CATEGORY 6a TWISTED PAIR CABLE

- A. Description: Four-pair, balanced-twisted pair cable, with internal spline, certified to meet transmission characteristics of Category 6a cable at frequencies up to 500MHz.
- B. Standard: Comply with TIA-568.2-D for Category 6a cables.
- C. Jacket: Orange thermoplastic.

2.4 TWISTED PAIR CABLE HARDWARE

- A. Description: Hardware designed to connect, splice, and terminate twisted pair copper communications cable.
- B. General Requirements for Twisted Pair Cable Hardware:
 - 1. Comply with the performance requirements of Category 6 and Category 6a.
 - 2. Comply with TIA-568.2-D, IDC type, with modules designed for punch-down caps or tools.
 - 3. Cables shall be terminated with connecting hardware of same category or higher.
- C. Patch Panel: Modular panels housing numbered jack units with IDC-type connectors at each jack location for permanent termination of pair groups of installed cables.
 - 1. Features:
 - a. Universal T568A and T568B wiring labels.
 - b. Labeling areas adjacent to conductors.
 - c. Replaceable connectors.
 - d. 24 or 48 ports.
 - 2. Construction: 16-gauge steel and mountable on 19-inch equipment racks.
 - 3. Number of Jacks per Field: One for each four-pair.

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- D. Patch Cords: Factory-made, four-pair cables in 60-inch lengths; terminated with an eight-position modular plug at each end.
1. Patch cords shall have bend-relief-compliant boots and color-coded icons to ensure performance. Patch cords shall have latch guards to protect against snagging.
 2. Patch cords shall have color-coded boots for circuit identification.
 3. Coordinate final counts and lengths with Owner.
- E. Jacks and Jack Assemblies:
1. Female; eight position; modular; fixed telecommunications connector designed for termination of a single four-pair, 100-ohm, unshielded or shielded twisted pair cable.
 2. Designed to snap-in to a patch panel or faceplate.
 3. Standard: Comply with TIA-568.2-D.
 4. Marked to indicate transmission performance.
- F. Faceplate:
1. Two and four port, vertical single gang faceplates designed to mount to single gang wall boxes.
 2. Plastic Faceplate: High-impact plastic. Coordinate color with Architect and Electrical device covers.
 3. Metal Faceplate: Stainless steel.
 4. Plastic surface mount box, white.
 5. For use with snap-in jacks accommodating any combination of twisted pair work area cords.
 - a. Flush mounting jacks, positioning the cord at a 90-degree angle.
- G. Legend:
1. Machine printed, in the field, using adhesive-tape label.
 2. Snap-in, clear-label covers and machine-printed paper inserts.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions:
1. It is the responsibility of the contractor to verify all existing conditions and work to be completed to ensure these are no conflicts or obstacles preventing completion of the work. Any obstacles or conflicts shall be brought to the attention of the Construction manager and Architect for resolution prior to work commencement.
- B. Preinstallation Testing:
1. Refer to individual sections for requirements on pre-installation testing.

3.2 PREPARATION

- A. Protection of In-Place Conditions:
1. All Airport technology systems shall remain operational at all times. Existing systems to remain shall be protected in place from damage and contamination (dust, fluids, debris, etc.).

3.3 DEMOLITION

- A. The drawings are intended to indicate the scope of work required and do not indicate every box, conduit, or wire that must be removed.
- B. The Contractor shall visit the site prior to submitting a bid and verify existing conditions.
- C. Prior to demolition or alteration of structures, the following shall be accomplished:
1. Survey and record condition of existing facilities to remain in place that may be affected by demolition operations. After demolition operations are completed, survey conditions again and restores existing facilities to their pre-demolition condition.
 2. Notify utilities prior to razing operations to permit them to disconnect and remove or relocate equipment that served existing facilities.
 3. Existing Communications Systems:
 - a. Maintain existing system(s) in service until new system(s) is complete and ready for service.
 - b. Disable system(s) only to make switchovers and connections.
 - c. Obtain permission no fewer than seven working days in advance of proposed interruption of system(s) before partially or completely disabling system(s).
 - d. Minimize outage duration.
 - e. If required, make temporary connections to maintain service in areas adjacent to work area.
 - f. Do not proceed with interruption without owner's written permission.
- D. Materials and Equipment
1. Materials and equipment for terminating, patching and cross connecting of existing technology systems and infrastructure shall be as specified in individual Sections.
 2. Materials and equipment for patching and extending work as specified in the individual Sections.
- E. Examination
1. Prior to commencing with demolition, a proposed implementation narrative with schedule shall be submitted to the engineer for approval.
 2. Provide proof that only qualified personnel with extensive technology infrastructure experience will perform the demolition.
 3. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on active equipment, use technicians experienced in such operations. Assume all equipment and systems must remain operational unless specifically noted otherwise on drawings.
 4. Whenever possible, the Contractor shall coil existing to be reused cable above ceiling for re-termination if cable length will allow. Re-terminated cables shall be tested as specified in the applicable specification section.
 5. Where walls, ceilings, structures, etc., are indicated as being renovated on general drawings, the contractor shall be responsible for the removal of all technology equipment including but not limited to copper, fiber and coaxial cable, faceplates and jacks, raceways, racks/cabinets and equipment mounted to the racks/cabinets, etc., from the renovated area.
 6. Where ceilings, walls, structures, etc., are temporarily removed and replaced by others, the contractor shall be responsible for the removal, storage, and replacement of equipment, devices, fixtures, raceways, wiring, systems, etc.
- F. Demolition and Extension of Existing Work
1. Demolish and extend existing technology work under provisions of Division 01 specifications and this Section.

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Drawing
Reference
Sheet No.:

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2. Some cabling within the ceiling space may serve other building tenants; care shall be exercised to prevent service interrupts.
 3. Remove, relocate, and extend existing installations to accommodate new construction.
 4. Remove abandoned low voltage cabling and raceway to source of cabling. Refer to the National Electrical Code for definition of Abandoned Communications Cabling.
 5. Remove exposed abandoned raceway, including abandoned raceway above accessible ceiling finishes. Cut raceway flush with walls and floors, and patch surfaces. Remove all associated clamps, hangers, supports, etc. associated with raceway removal.
 6. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is removed. Patch openings created from removal of devices to match surrounding finishes.
 7. Disconnect and remove abandoned patch panels, blocks, panels, power supplies, and other associated equipment.
 8. Repair adjacent construction and finishes damaged during demolition and extension work. Patch openings to match existing surrounding finishes.
 9. Maintain access to existing technology spaces and equipment that remain active. Modify installation or provide access panels as appropriate.
 10. Extend existing installations using materials and methods compatible with existing technology installations, or as specified.
 11. Regulatory Requirements: Comply with governing EPA notification regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
 12. Floor slabs may contain conduit systems. The contractor is responsible for taking any measures required to ensure no conduits or other services are damaged. This includes x-ray or similar non-destructive means.
 13. The contractor is responsible for all costs incurred in repair, relocations, or replacement of any cables, conduits, or other services if damaged without proper investigation.
- 3.4 INSTALLATION OF COMMUNICATIONS WORK
- A. Unless more stringent requirements are specified in the Contract Documents or manufacturers' instructions, comply with NFPA 70, NECA NEIS 1, and ANSI/BICSI N1 for installation of Work specified in Division 27. Consult Architect for resolution of conflicting requirements.
- 3.5 INSTALLATION OF TWISTED-PAIR HORIZONTAL CABLES
- A. Comply with NECA 1 and NECA/BICSI 568.
- B. General Requirements for Cabling:
1. Comply with TIA-568.0-E, TIA-568.1-E, and TIA-568.2-D.
 2. Comply with BICSI's "Information Transport Systems Installation Methods Manual (ITSIMM), Ch., "Structured Cabling Systems," "Cable Termination Practices" Section.
 3. Install 110-style IDC termination hardware unless otherwise indicated.
 4. Do not untwist twisted pair cables more than 1/2 inch from the point of termination to maintain cable geometry.
 5. Terminate all conductors; no cable shall contain unterminated elements. Make terminations only at indicated outlets, terminals, cross-connects, and patch panels
 6. Cables may not be spliced. Secure and support cables at intervals not exceeding 30 inches and not more than 6 inches from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
 7. Install lacing bars to restrain cables, prevent straining connections, and prevent bending cables to smaller radii than minimums recommended by manufacturer.
 8. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii, but not less than radii specified in BICSI Information Transport Systems Installation Methods Manual, Ch., "Structured Cabling Systems," "Cable Termination Practices" Section. Use lacing bars and distribution spools.

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9. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation, and replace it with new cable.
 10. Cold-Weather Installation: Bring cable to room temperature before dereeling. Heat lamps shall not be used for heating.
 11. In the communications equipment room, install a 10-foot-long service loop on each end of cable.
 12. Pulling Cable: Comply with BICSI Information Transport Systems Installation Methods Manual, Ch., "Structured Cabling Systems," "Pulling and Installing Cable" Section. Monitor cable pull tensions.
- C. Open-Cable Installation:
1. Install cabling with horizontal and vertical cable guides in telecommunications spaces with terminating hardware and interconnection equipment.
 2. Suspend twisted pair cabling, not in a wireway or pathway, a minimum of 8 inches above ceilings by cable supports not more than 60 inches apart.
 3. Cable shall not be run through structural members or in contact with pipes, ducts, or other potentially damaging items.
- D. Group connecting hardware for cables into separate logical fields.
- E. Separation from EMI Sources:
1. Comply with recommendations from BICSI's "Telecommunications Distribution Methods Manual" and TIA-569-E for separating unshielded copper communication cable from potential EMI sources, including electrical power lines and equipment.
 2. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches.
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches.
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches.
 3. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches.
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches.
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches.
 4. Separation between communications cables in grounded metallic raceways, power lines, and electrical equipment located in grounded metallic conduits or enclosures shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: No requirement.
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches.
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches.
 5. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches.
 6. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches.
- 3.6 FIRESTOPPING
- A. Comply with requirements in Division 07 specifications for penetration firestopping.
- B. Comply with TIA-569-E, Annex A, "Firestopping."
- C. Comply with "Firestopping Systems" Article in BICSI's "Telecommunications Distribution Methods Manual."
- 3.7 IDENTIFICATION

- A. Identify system components, wiring, and cabling complying with TIA-606-C.
- B. Cable and Wire Identification:
 - 1. Label each cable within 4 inches of each termination and tap, where it is accessible in a cabinet or junction or outlet box, and elsewhere as indicated.
 - 2. Each wire connected to building-mounted devices is not required to be numbered at the device if wire color is consistent with associated wire connected and numbered within panel or cabinet.
 - 3. Exposed Cables and Cables in Cable Trays and J-Hooks: Label each cable at intervals not exceeding 15 feet.
 - 4. Label each terminal strip, and screw terminal in each cabinet, rack, or panel.
 - a. Individually number wiring conductors connected to terminal strips, and identify each cable or wiring group, extended from a panel or cabinet to a building-mounted device, with the name and number of a particular device.
 - b. Label each unit and field within distribution racks and frames.
 - 5. Identification within Connector Fields in Equipment Rooms and Wiring Closets: Label each connector and each discrete unit of cable-terminating and -connecting hardware. Where similar jacks and plugs are used for both voice and data communication cabling, use a different color for jacks and plugs of each service.
- C. Labels shall be preprinted or computer-printed type, with a printing area and font color that contrast with cable jacket color but still comply with TIA-606-C requirements for the following:
 - 1. Cables use flexible vinyl or polyester that flexes as cables are bent.
- D. Match cable, faceplate, jack, and patch panel labeling on site.

3.8 FIELD QUALITY CONTROL

- A. Administrant for Communications Tests and Inspections:
 - 1. Administer and perform tests and inspections.

3.9 CLEANING

- A. Clean all Technology Rooms and fittings to include, but not limited to, the following:
 - 1. Floor, walls, racks, cabinets, cable runways, raceways.
 - 2. Cabinet, racks, and mounted infrastructure components shall be free of dust and debris prior to electronics being installed.
- B. Remove all waste and debris on a daily basis.

END OF SECTION