SPS INNOVATION CENTER

SUFFOLK PUBLIC SCHOOLS

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(540) 344-1212

1 Research Court, Suite 450
Rockville, MD 20850
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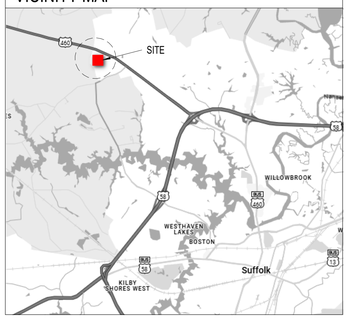
VICINITY MAP



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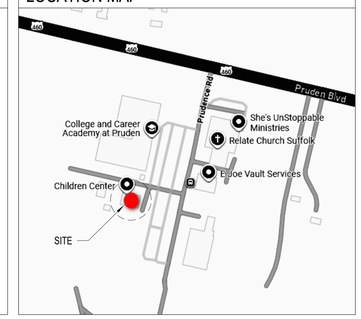
LOCATION MAP



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ED-302	OVERALL DEMOLITION FLOOR PLAN - AUXILIARY SYSTEMS ALT 01
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E-201	OVERALL NEW WORK FLOOR PLAN - POWER
E-202	OVERALL NEW WORK FLOOR PLAN - POWER ALT 01
E-203	OVERALL NEW WORK ROOF PLAN - POWER ALT 01
E-301	OVERALL NEW WORK FLOOR PLAN - AUXILIARY SYSTEMS
E-302	OVERALL NEW WORK FLOOR PLAN - AUXILIARY SYSTEMS ALT 01

MARK	DATE	REVISIONS	BY	DESCRIPTION

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	RRMM
DRAWN	RRMM
CHECKED	RRMM

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PROJECT
SUFFOLK PUBLIC SCHOOLS
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DRAWING
TITLE SHEET

SHEET
G-001

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32" = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6'
6" = 1'-0" 0' 1" 2" 3'
12" = 1'-0" 0' 1" 1.5'

GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL DRAWINGS AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES FOR ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THE MODIFICATIONS TO THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION, AS ADOPTED BY THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 2021 EDITION.

3. THE WORK UNDER THE FOLLOWING SPECIFICATION SECTIONS IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION:
   A. **051200** – STRUCTURAL STEEL FRAMING

4. THE CONTRACTOR MUST BE RESPONSIBLE FOR TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

5. BEFORE PROCEEDING WITH WORK WITHIN OR NEAR THE EXISTING STRUCTURE, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE EXISTING STRUCTURAL CONDITIONS. THE SHORING AND BRACING SHOWN IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SAFEGUARDS NECESSARY TO PROTECT THE EXISTING STRUCTURE FROM DAMAGE.

6. THE CONTRACTOR MUST FIELD VERIFY THE DIMENSIONS, ELEVATIONS AND OTHER REQUIREMENTS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING. THE CONTRACTOR MUST MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS.

7. THE PROJECT SPECIFICATIONS ARE NOT SUPERSEDED BY THE STRUCTURAL NOTES BUT ARE INTENDED TO BE COMPLEMENTARY TO THEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS IN EACH SECTION.

8. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS MUST TAKE PRECEDENCE OVER STRUCTURAL NOTES AND TYPICAL DETAILS.

9. THE DOCUMENTS DEFINING THE STRUCTURE ARE INSTRUMENTS OF SERVICE PREPARED BY SPEIGHT, MARSHALL AND FRANCIS, PLLC. FOR ONE USE ONLY. THE STRUCTURAL DOCUMENTS MUST NOT BE REPRODUCED, OR COPIED IN WHOLE OR IN PART BY THE CONTRACTOR OR SUBCONTRACTORS FOR PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

10. LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:
    A. LIVE LOADS:
       1. ROOF 20 PSF
    B. SNOW DESIGN DATA:
       1. GROUND SNOW LOAD 34 PSF
    C. ULTIMATE WIND SPEED 118 PSF

11. MECHANICAL UNIT WEIGHTS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR MUST VERIFY LOCATIONS AND WEIGHTS SHOWN AND REPORT DISCREPANCIES TO THE ARCHITECT.

CAST-IN-PLACE CONCRETE NOTES:

1. CAST-IN-PLACE CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14) AND COMMENTARY (ACI 318R-14)".

2. CONCRETE MUST BE NORMAL WEIGHT AND OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI.

3. REINFORCING MATERIALS MUST BE AS FOLLOWS:
   A. REINFORCING BARS – ASTM A615, GRADE 60, DEFORMED
   B. FIBER REINFORCING:
      1. SYNTHETIC – ASTM C1116, TYPE III

4. ALL REINFORCING STEEL AND EMBEDDED ITEMS MUST BE ACCURATELY PLACED IN THE POSITIONS SHOWN AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS INDICATED ON THE DRAWINGS MUST BE GOVERN WHEN IN CONFLICT WITH ACI 318-14.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOURTEENTH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360-16) "STEEL CONSTRUCTION MANUAL" – ALLOWABLE STRESS DESIGN.

2. STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
   A. ALL OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS – ASTM A36, Fy=36 KSI (UNLESS OTHERWISE NOTED)

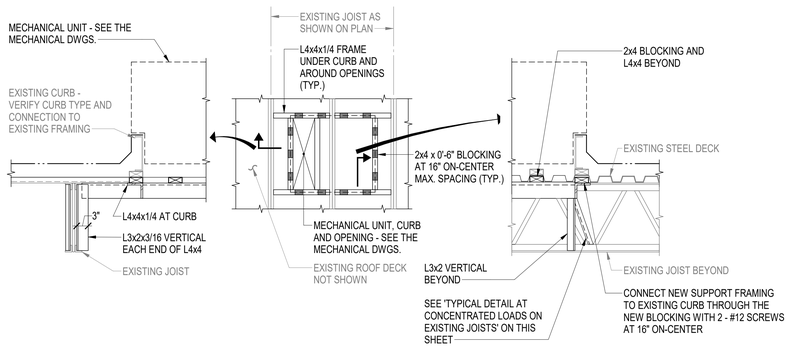
3. WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE – STEEL". WELD ELECTRODES MUST BE E70XX. CONTINUOUS 3/16" FILLET WELDS ARE REQUIRED UNLESS OTHERWISE NOTED.

SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS MUST BE COMPLETED FOR THE FOLLOWING ELEMENTS ACCORDING TO IBC SECTION 1704.

2. STRUCTURAL STEEL FABRICATION AND ERECTION MUST BE SPECIAL INSPECTED AS FOLLOWS:
   A. PERIODIC INSPECTION:
      1. SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"
      2. STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS INCLUDING MEMBER LOCATIONS, CONNECTION DETAILS AND ANY OTHER BRACING AND STIFFENING DETAILS

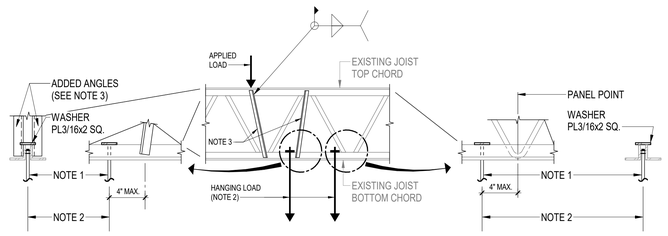
3. SEE THE IBC AND OTHER CONSULTANTS' DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRED TO BE SPECIAL INSPECTED.



SECTION PARTIAL FRAMING PLAN SECTION

TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAIL AT EXISTING ROOF

NOT TO SCALE



BETWEEN PANEL POINTS AT PANEL POINTS

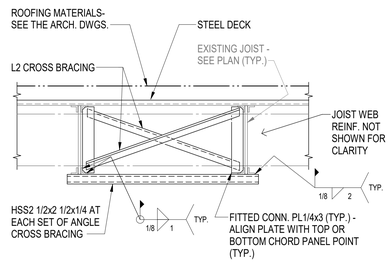
NOTES:
1. HANGER RODS - SEE THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
2. POSITION HANGER RODS ON JOIST CENTERLINE BETWEEN BOTTOM CHORD ANGLES. "C" CLAMP CONNECTIONS ARE NOT ALLOWED.
3. WHERE CONCENTRATED LOADS ARE APPLIED TO TOP CHORDS OR HUNG FROM BOTTOM CHORDS BETWEEN PANEL POINTS REINFORCE EXISTING JOIST WITH DOUBLE ANGLES AS INDICATED. AT "J" SERIES PROVIDE DBL. L2x2x1/4.

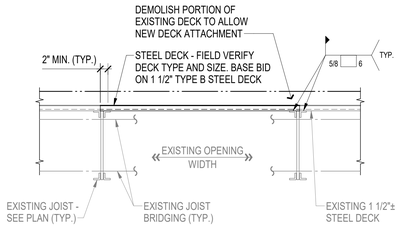
TYPICAL DETAIL AT CONCENTRATED LOADS ON EXISTING JOISTS

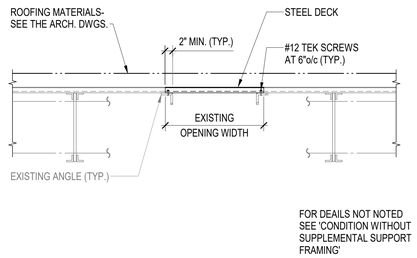
NOT TO SCALE (NOTE: THIS DETAIL IS FOR ALL LOADS WHICH EXCEED 100 POUNDS)

TYPICAL JOIST CROSS BRACING DETAIL

NOT TO SCALE



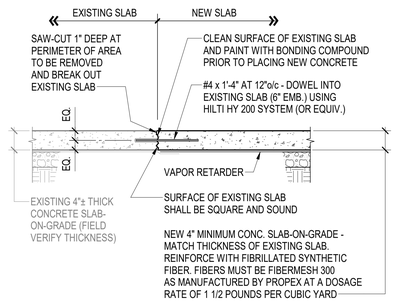




CONDITION WITHOUT SUPPLEMENTAL SUPPORT FRAMING CONDITION WITH SUPPLEMENTAL SUPPORT FRAMING

TYPICAL ROOF DECK REPAIR DETAILS

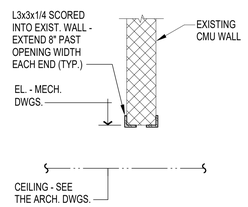
NOT TO SCALE



SEE THE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF SLAB REMOVAL

TYPICAL REMOVAL AND REPAIR OF EXISTING SLAB-ON-GRADE DETAIL

NOT TO SCALE



BASE BID ON 4 WALL PENETRATIONS - SEE THE MECHANICAL DRAWINGS FOR DUCT PENETRATION LOCATIONS

TYPICAL LINTEL IN EXISTING CMU WALL DETAIL

NOT TO SCALE

STRUCTURAL ABBREVIATION LIST:

w/	WITH
±	PLUS/MINUS
CL	CENTERLINE
o/c	ON CENTER
A.B.	ANCHOR BOLT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.R.	ANCHOR ROD
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ADJ.	ADJACENT
ARCH.	ARCHITECT or ARCHITECTURAL
B.	BOTTOM
B.E.J.	BUILDING EXPANSION JOINT
B.D.	BAR DIAMETER
BLDG.	BUILDING
BM.	BEAM
BRCG.	BRACING
BRDG.	BRIDGING
BRG.	BEARING
BTWN.	BETWEEN
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
C.J.P.	COMPLETE JOINT PENETRATION
CANT.	CANTILEVER
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECT or CONNECTION
CONT.	CONTINUOUS
COORD.	COORDINATE
D.	DEEP or DEPTH
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
DWG.	DRAWING
DWL.	DOWEL
E.F.	EACH FACE
E.O.	EDGE OF
E.W.	EACH WAY
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR or ELEVATION
EMB.	EMBED or EMBEDMENT
ENG.	ENGINEER
EQ.	EQUAL
EQUIV.	EQUIVALENT
EXIST.	EXISTING
EXP.	EXPANSION
F.L.	FULL LENGTH
F.O.	FACE OF
F.R.	FIRST RISER
FIN.	FINISH or FINISHED
FLR.	FLOOR
FTG.	FOOTING
G.C.	GENERAL CONTRACTOR
ga	GAGE
GALV.	GALVANIZED
GD.	GRADE
H.C.	HOLLOW CORE
HK.	HOOK
HORIZ.	HORIZONTAL
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
K	KIPS
K.S.F.	KIPS PER SQUARE FOOT
K.S.I.	KIPS PER SQUARE INCH
LG.	LONG
LLH	LONG LEG HORIZONTAL
LLO	LONG LEG OUTSTANDING
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
M.O.S.	MIDDLE OF SLAB
M.O.W.	MIDDLE OF WALL
MANUF.	MANUFACTURER or MANUFACTURER'S
MAS.	MASONRY
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MTL.	METAL
N.T.S.	NOT TO SCALE
OPP.	OPPOSITE
OSB.	ORIENTED STRAND BOARD
P/T	POST-TENSIONED
PAF	POWDER ACTUATED FASTENER
P.C.	PRECAST
P.E.B.	PRE-ENGINEERED BUILDING
P.S.	PRE-STRESSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
Pc	PIECE
PLUMB.	PLUMBING
PROJ.	PROJECTION
R.	RADIUS
REF.	REFERENCE
REINF.	REINFORCED or REINFORCING
REQD.	REQUIRED
REV.	REVISION
SLO	SHORT LEG OUTSTANDING
S.D.I.	STEEL DECK INSTITUTE
S.E.J.	SEISMIC EXPANSION JOINT
S.J.I.	STEEL JOIST INSTITUTE
S.O.G.	SLAB ON GRADE
S.F.	STEPPED FOOTING
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
S.I.R.D.A.	SLOPED INTEGRAL ROOF DECK ASSEMBLY
SL.	SLOPE
SPA.	SPACE
STD.	STANDARD
STIFF.	STIFFENER
STIR.	STIRRUP
STL.	STEEL
STRUCT.	STRUCTURAL
T.	TOP
T.O.S.	TOP OF STEEL
TEMP.	TEMPERATURE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
W.	WIDE or WIDTH
W.P.	WORKING POINT
W.W.F.	WELDED WIRE FABRIC

MARK	DATE	REVISIONS	BY
		DESCRIPTION	

DATE	PROJECT	DESIGNED	DRAWN	CHECKED
01-17-25	22.106-C	EHI	MSW	DWS

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Lic. No. 035522
01/17/2025
PROFESSIONAL ENGINEER

PROJECT SUFFOLK PUBLIC SCHOOLS
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DRAWING STRUCTURAL NOTES AND ABBREVIATIONS

SHEET
S-001

FRAMING PLAN NOTES :

A. SEE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

B. FOR THE STRUCTURAL NOTES AND ABBREVIATIONS SEE SHEETS S-001.

C. FOR JOIST BEARING ELEVATIONS NOT SHOWN ON PLAN INTERPOLATE LINEARLY BETWEEN GIVEN ELEVATIONS.

D. INSTALL CONCENTRATED LOAD ANGLES AT CONNECTION OF EXISTING L4 TO EXISTING JOIST. EIGHT LOCATIONS TOTAL. SEE 'TYPICAL DETAILS AT CONCENTRATED LOADS ON EXISTING JOIST' ON SHEET S-001.

E. EXISTING CONDUIT, LIGHTS, DUCTWORK AND JOIST BRIDGING ARE ATTACHED TO THE EXISTING JOIST AND SHALL BE TEMPORARILY REMOVED AND REPLACED AS REQUIRED TO INSTALL JOIST REINFORCEMENT PER 'TYPICAL DETAILS AT CONCENTRATED LOADS ON EXISTING JOISTS' AND NEW SUPPORT FRAMING PER 'TYPICAL ROOF TOP MECHANICAL SUPPORT DETAIL AT EXISTING ROOF'. COORDINATE WITH THE OTHER CONTRACTORS FOR SUPPORT.

F. NEW ROOF TOP MECHANICAL EQUIPEMENT - COORDINATE SIZE, OPENING LOCATIONS AND DETAIL WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. INSTALL SUPPORT BELOW CURB AND AROUND EDGE OF DECK AT NEW ROOF OPENINGS. SEE 'TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAIL AT EXISTING ROOF' ON SHEET S-001.

G. REMOVE DAMAGED OR UNSUPPORTED EXISTING STEEL ROOF DECK BELOW EXISTING ROOF CURB. PATCH DECK OPENINGS WITH NEW DECK PER 'TYPICAL ROOF DECK REPAIR DETAILS' ON S-001.

H. REMOVE EXISTING STEEL ANGLES BELOW EXISTING ROOF CURB AT LOCATIONS WHERE EXISTING SUPPORT ANGLES INTERFERE WITH INSTALLATION OF NEW SUPPORT ANGLES.

FRAMING PLAN LEGEND :

xxx#	=	MECHANICAL UNIT - MAXIMUM OPERATING WEIGHT AND CURB WEIGHT GIVEN IN POUNDS (COORDINATE WITH THE MECHANICAL DRAWINGS)
	=	L2x2x1/4 DIAGONAL CROSS BRACING. SEE 'TYPICAL JOIST CROSS BRACING DETAIL' ON SHEET S-001
(E)	=	EXISTING
±	=	EXISTING DIMENSION OR ELEVATION (FIELD VERIFY)
+XX'-XX"±	=	EXISTING JOIST BEARING ELEVATION (J.B.E) - MEASURED FROM REFERENCE ELEVATION 0'-0"

ROOF FRAMING PLAN - ALT. 01

1/4" = 1'-0"

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	01-17-25
PROJECT	22.106-C
DESIGNED	EHI
DRAWN	MSW
CHECKED	DWS

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EARL H. INGE, JR.
Lic. No. 035522
01/17/2025
PROFESSIONAL ENGINEER

PROJECT: SUFFOLK PUBLIC SCHOOLS
SPS INNOVATIONS CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING: ROOF FRAMING PLAN

SHEET
S-111

PLAN LEGEND

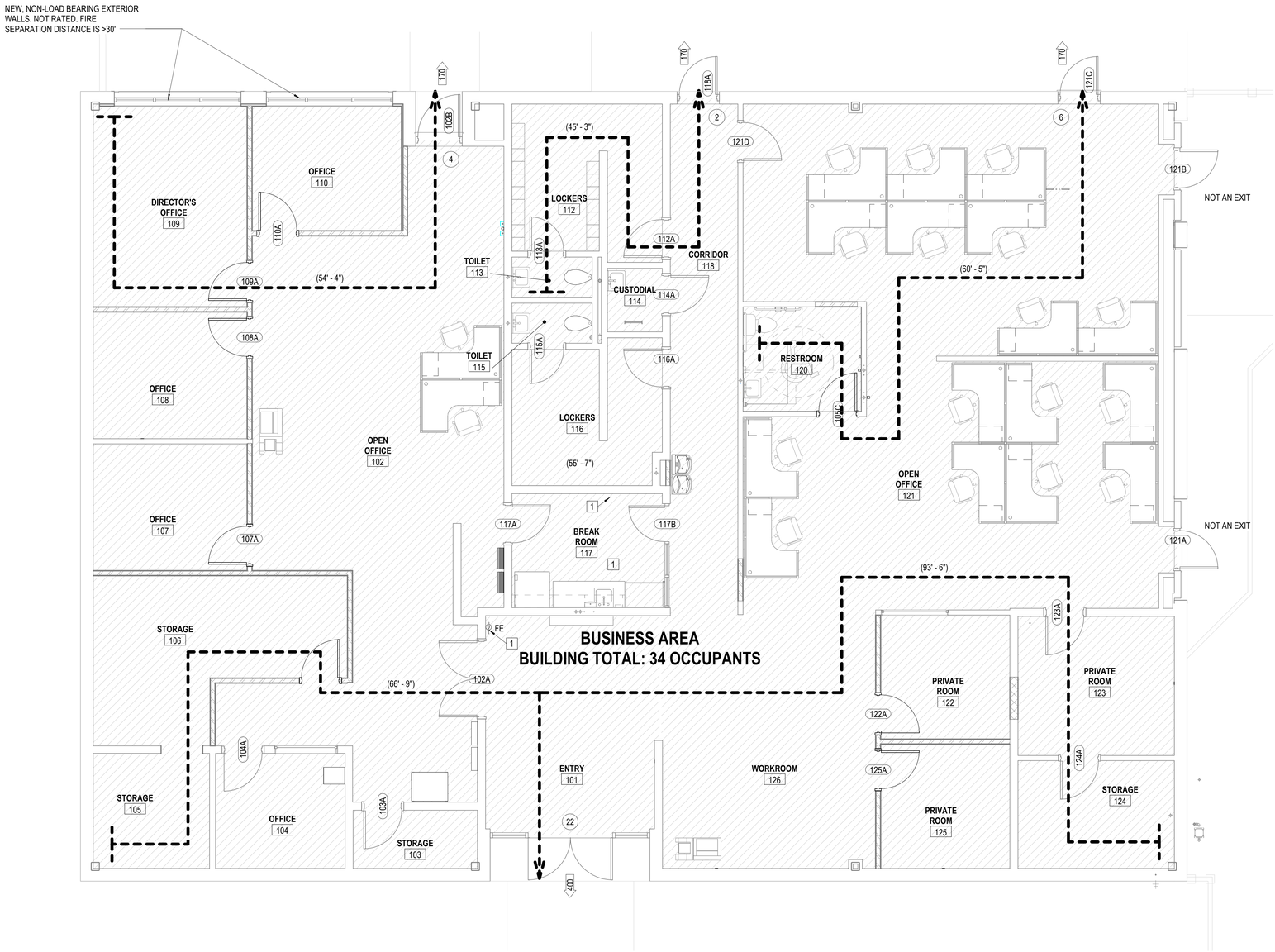
- 440 — EGRESS CAPACITY IN PERSONS FOR OPENING SHOWN
- 54 — CALCULATED OCCUPANCY LOAD AT EXIT LOCATION
- NON-FIRE RATED PARTITION, REFER TO SHEET A-0.1 FOR PARTITION TYPES LEGEND.
- ('- - -") — APPROXIMATE MAXIMUM TRAVEL DISTANCE
- XXX / XXX SF — OCCUPANT LOAD
- FE — WALL MOUNTED FIRE EXTINGUISHER- REF SPECIFICATIONS

KEY NOTES - LIFE SAFETY

1 EXISTING FIRE EXTINGUISHER LOCATION

OCCUPANCY LOAD FACTOR LEGEND

BUSINESS AREAS - 150 GROSS



01-FIRST FLOOR - LIFE SAFETY

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

BUILDING CODE DESIGN SUPPORTING DATA

PROJECT BASIC DESCRIPTION
THE PROJECT INCLUDES THE RENOVATION OF AN EXISTING FACILITY USED FOR DAYCARE SERVICES TO A BUSINESS/ADMIN SUITE.

A. APPLICABLE CODES
1. BUILDING CODES: 2021 VIRGINIA CONSTRUCTION CODE (VCC)
2021 VIRGINIA EXISTING BUILDING CODE (VEBC)
2. ACCESSIBILITY CODE: 2017 INTERNATIONAL BUILDING CODE (IBC) AND ICC/ANSI 117.1 - 2003

B. GROSS BUILDING AREAS
1. FIRST FLOOR BUILDING AREA: 5,390 SF
TOTAL BUILDING: 5,390 SF

SEE AREA INCREASE CALCULATIONS FOR ALLOWABLE BUILDING AREA

C. BUILDING OCCUPANCY AND CONSTRUCTION TYPE
1. CHANGE OF OCCUPANCY PER VEBC CHAPTER 7
FROM GROUP "E" TO GROUP "B" BUSINESS

D. FIRE PROTECTION SYSTEMS
1. ENTIRE BUILDING IS UNSPRINKLED
2. AUTOMATIC SPRINKLER SYSTEM NOT REQUIRED PER VEBC 704.2

E. FIRE RESISTANCE RATING REQUIREMENTS
PER VEBC 707.3: EXISTING EXTERIOR WALLS, INCLUDING OPENINGS, ARE ACCEPTED.

F. AREA ALLOWANCE PER OCCUPANT (PER IBC TABLE 1004.5)
BUSINESS AREAS @ 150 GROSS 5,038 SF/150 = 34 OCCUPANTS

G. MEANS OF EGRESS
PER VEBC 705.4 MEANS OF EGRESS FOR CHANGE OF OCCUPANCY OF EQUAL OR LOWER HAZARD CATEGORY OR WITHOUT A CHANGE IN CLASSIFICATION:
MEANS OF EGRESS ACCEPTABLE AS LONG AS MEETS THE EGRESS CAPACITY AND OCCUPANT LOAD BASED MEANS OF EGRESS PROVISIONS IN CHAPTER 10 OF THE VCC FOR THE NEW OCCUPANCY.

VCC CHAPTER 10 EGRESS PROVISIONS:

EGRESS CAPACITY PER VCC 1005.3.2: 0.2/OCCUPANT
REQUIRED CAPACITY: 34 OCCUPANTS*0.2 = 6.8"

EXITS REQUIRED PER VCC TABLE 1006.2.1: (1) EXIT REQUIRED. (4) PROVIDED.

VCC TABLE 1016.1 EXIT ACCESS TRAVEL DISTANCE: OCCUPANCY GROUP B, 200' WITHOUT SPRINKLER SYSTEM

VEBC 705.3.2 DEADENDS: NO MORE THAN 35'-0"

H. OTHER REQUIREMENTS
ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION (VEBC 404.3)
WHERE AN ALTERATION AFFECTS OR COULD AFFECT THE USABILITY OF OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. TOILET FACILITIES AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION, INCLUDING THE ROUTE FROM THE AREA OF PRIMARY FUNCTION TO THESE FACILITIES, SHALL BE ACCESSIBLE.

ONE ACCESSIBLE SINGLE USER RESTROOM PROVIDED.

J. PLUMBING FIXTURES
FIXTURE COUNTS ARE BASED ON VCC TABLE 2902.1
1. BUILDING USE OCCUPANCY CLASSIFICATIONS INCLUDE: (B) BUSINESS

4. MAX OCCUPANCY LOAD: 34 OCCUPANTS

	REQUIRED	PROVIDED
WATER CLOSETS/URINALS (1:25)	2	3
LAVATORIES (1:40)	1	3
DRINKING FOUNTAIN (1:100)	1	1
SERVICE SINK	1	1

ENERGY CONSERVATION REQUIREMENTS
GENERAL
ADDITIONS TO AN EXISTING BUILDING, OR PORTION THEROF, SHALL CONFORM TO THE PROVISIONS OF THE VIRGINIA ENERGY CONSERVATION CODE (VECC) WITHOUT REQUIRING THE UNALTERED PORTION OF THE EXISTING BUILDING TO COMPLY WITH THE VECC.

THERMAL ENVELOPE INSULATION MINIMUM REQUIREMENTS:
CLIMATE ZONE: 3A
METAL FRAMED: R-13 CAVITY + R-7.5 CONTINUOUS.

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	1/09/2025	
PROJECT	21222-21	
DESIGNED	MW	
DRAWN	TB	
CHECKED	MW	

RRMM ARCHITECTS, PC
1317 Executive Blvd, Suite 200
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COMMONWEALTH OF VIRGINIA
JEFFREY A HARRIS
Lic. No. 10748
1/22/2025
ARCHITECT

PROJECT: SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING: LIFE SAFETY

SHEET
LS101

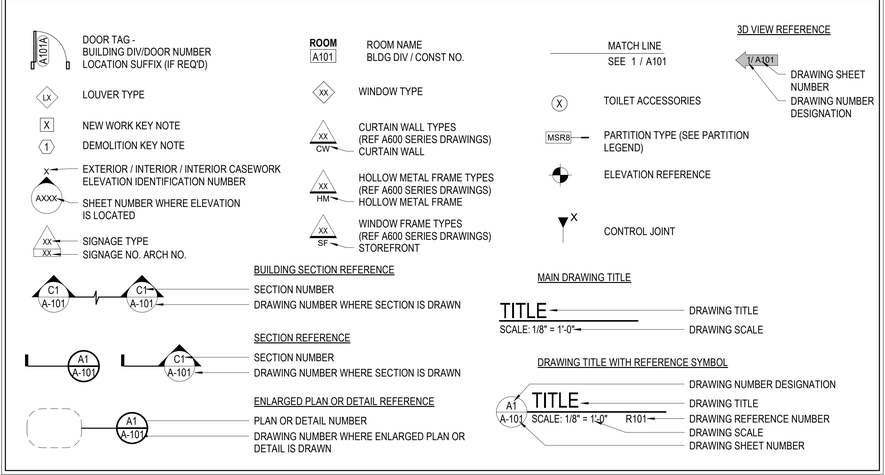
ABBREVIATIONS

#	NUMBER	CCTV	CLOSED CIRCUIT TELEVISION	DWG	DRAWING	FRMG	FRAMING	JT	JOINT	NRC	NOISE REDUCTION COEFFICIENT	REQD	REQUIRED	THRES	THRESHOLD
&, +	AND	CEM	CEMENT	DWR	DRAWER	FRP	FIBERGLASS REINFORCED PLASTIC			NTS	NOT TO SCALE	REQMT	REQUIREMENT	THRU	THROUGH
+/-	PLUS OR MINUS	CEM TOP	CEMENT TOPPING			FRT	FIRE RETARDANT TREATED	KIT	KITCHEN			RESIL	RESILIENT	TO	TOP OF
@	AT	CER	CERAMIC	E	EAST	FT	FOOT, FEET	KO	KNOCKOUT	OA	OVERALL	RET	RETURN	TOC	TOP OF CURB
°	DEGREES	CF	CUBIC FOOT	EA	EACH	FTG	FOOTING	KV	KILOVOLT	OBS	OBSCURE	REV	REVISION, REVISIONS, REVISED	TOM	TOP OF MASONRY
Ø	DIAMETER	CFLSHG	COUNTER FLASHING	EF	EXHAUST FAN	FUM	FUME HOOD	KVA	KILOVOLT AMPERE	OC	ON CENTER	RFG	ROOFING	TOS	TOP OF STEEL
Ω	ARC LENGTH	CFM	CUBIC FEET PER MINUTE	EFS	EXTERIOR FINISH SYSTEM	FUR	FURRED, FURRING	KW	KILOWATT	OD	OUTSIDE DIAMETER	RFL	REFLECT, REFLECTED, REFLECTIVE	TOW	TOP OF WALL
		CG	CORNER GUARD	EIFS	EXTERIOR INSULATION FINISH SYSTEM	FURN	FURNITURE			OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED	RH	RIGHT HAND	TP	TOILET PARTITION
A/C	AIR CONDITIONING	CHAM	CHAMFER	EJ	EXPANSION JOINT	FURR	FURRING	L	LENGTH, LONG, LOW			RL	RAIN LEADER	TPT	TEXTURED PAINT
AB	ANCHOR BOLT	CI	CAST IRON	ELAS	ELASTOMERIC			LAB	LABORATORY	OH	OVERHEAD	RM	ROOM	TRTD	TREATED
ABV	ABOVE	CIP	CAST IN PLACE	ELEC	ELECTRICAL	G	GAS	LAM	LAMINATE	OPNG	OPENING	RO	ROUGH OPENING	TSC	TEACHERS STORAGE CABINET
ACM	ASBESTOS CONTAINING MATERIAL	CIR	CIRCLE	ELEV	ELEVATION, ELEVATOR	GA	GAUGE	LAV	LAVATORY	OPP	OPPOSITE	RSHT	RESILIENT SHEET	TTD	TOILET TISSUE DISPENSER
ACP	ACOUSTIC CEILING PANEL	CJ	CONTROL JOINT	EM	ENTRANCE MAT	GAL	GALLON	LB	POUND			RT	RUBBER TILE / RUBBER TREAD	TV	TELEVISION
ACT	ACOUSTIC CEILING TILE	CK	CAULK, CAULKING	EMER	EMERGENCY	GALV	GALVANIZED	LF	LINEAR FEET	P	PLATE	RTU	ROOF TOP UNIT	TW	TEACHERS WARDROBE
ADDN	ADDITION	CLG	CEILING	ENCL	ENCLOSE, ENCLOSURE	GB	GRAB BAR	LG	LAMINATED GLASS	PAR	PARALLEL			TYP	TYPICAL
ADH	ADHESIVE	CLO	CLOSET	EP	ELECTRICAL PANELBOARD	GC	GENERAL CONTRACT, CONTRACTOR	LH	LEFT HAND	PART	PARTIAL	S	SOUTH		
ADJ	ADJUSTABLE	CLR	CLEAR	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	GCMU	GLAZED FIBER REINFORCED CONCRETE	LIN	LINEAR	PC	PRE-CAST, PIECE	S/S	STAINLESS STEEL, SERVICE SINK	UC	UNDERCUT
AFF	ABOVE FINISH FLOOR	CM	CENTIMETER, CENTIMETERS			GEN	GENERAL	LK	LOCKER	PED	PEDESTAL	SAB	SOUND ATTENUATION BLANKET	UG	UNDER GROUND
AGG	AGGREGATE	CMP	CORRUGATED METAL PIPE	EPS	EXPANDED POLYSTYRENE	GFRC	GLASS FIBER REINFORCED CONCRETE	LLH	LONG LEG HORIZONTAL	PERF	PERFORATE (D)	SAN	SANITARY SEWER	UH	UNIT HEATER
AHU	AIR HANDLING UNIT	CMU	CONCRETE MASONRY UNIT	EPX	EPOXY	GL	GLASS, GLAZING	LLV	LONG LEG VERTICAL	PERM	PERIMETER	SAPC	SUSPENDED ACOUSTIC PANEL CEILING	UNF	UNFINISHED
AL	ALUMINUM	CNTR	COUNTER	EQ	EQUAL	GPM	GALLONS PER MINUTE	LP	LOW POINT	PIP	POURED IN PLACE	SC	SOLID CORE, SEALED CONCRETE	UON	UNLESS OTHERWISE NOTED
ALT	ALTERNATE	CO	CLEAN OUT	EQUIP	EQUIPMENT	GR	GRADE / GROUT	LTG	LIGHTING	PL	PROPERTY LINE / PLASTIC LAMINATE	SCHED	SCHEDULE		
AMP, A	AMPERE	COL	COLUMN	EST	ESTIMATE	GSU	GLAZED STRUCTURAL UNIT	LTL	LINTEL	PLAM	PLASTIC LAMINATE	SCW	SOLID CORE WOOD	V	VOLT, VALLEY
ANCH	ANCHOR, ANCHORAGE	COMM	COMMUNICATION	EWC	ELECTRIC WATER COOLER	GWB	GYPSUM WALLBOARD	LVR	LOUVER	PLAS	PLASTER	SD	SOAP DISPENSER, STORM DRAIN	VAC	VACUUM
ANOD	ANODIZED	COMP	COMPOSITE	EXCA	EXCAVATE	GWT	GLAZED WALL TILE	LW	LIGHTWEIGHT	PLUMB	PLUMBING	SEC	SECTION	VAR	VARNISH
AP	ACCESS POINT	CONC	CONCRETE	EXH	EXHAUST	GYP	GYPSUM			PLYWD	PLYWOOD	SF	SQUARE FEET	VB	VENTED BASE
APC	ARCHITECTURAL PRECAST CONCRETE	CONN	CONNECTION	EXIST	EXISTING			M	METER	PNL	PANEL	SFGL	SAFETY GLASS	VCT	VINYL COMPOSITION TILE
APPROX	APPROXIMATE	CONST	CONSTRUCTION	EXP	EXPOSED / EXPANSION	H	HIGH	M/S	MOP SINK	POLY	POLYURETHANE	SHLVG	SHELVING	VEN	VENEER
AR	ABUSE RESISTANT	CONT	CONTINUOUS	EXP C	EXPANSION CONSTRUCTION	H/C	HANDICAPPED	MACH	MACHINE	PORT	PORCELAIN TILE	SHM	SECURITY HOLLOW METAL	VERT	VERTICAL
ARCH	ARCHITECT, ARCHITECTURAL	CONTR	CONTRACT, CONTRACTOR	EXT	EXTERIOR	HB	HOSE BIB	MAINT	MAINTENANCE	PORTB	PORCELAIN TILE BASE	SHT	SHEET	VEST	VESTIBULE
ASB	ASBESTOS	CORR	CORRUGATED			HC	HOLLOW CORE	MANUF	MANUFACTURE, MANUFACTURER	PPT	PRESERVATIVE PRESSURE TREATED	SHTH	SHEATHING	VR	VAPOR RETARDER
ASPH	ASPHALT	CPT	CARPET	FAB	FABRICATE	HD	HAND	MAR	MARBLE	PR	PAIR	SIM	SIMILAR	VT	VINYL TILE
ATTEN	ATTENUATION	CRS	COURSE. COURSES	FAS	FASTEN, FASTENER	HDBD	HARDBOARD	MAS	MASONRY	PREFAB	PREFABRICATE, PREFABRICATED	SLR	SEALER	VTR	VENT THRU ROOF
AUTO	AUTOMATIC	CSMT	CASEMENT	FB	FACE BRICK	HDWD	HARDWOOD	MATL	MATERIAL	PREFIN	PRE-FINISHED	SN	STAGE NOSE	VWC	VINYL WALL COVERING
AVG	AVERAGE	CSWK	CASEWORK	FCVD	FLASH COVED	HDWR	HARDWARE	MAX	MAXIMUM	PRJ SC	PROJECTION SCREEN	SND	SANITARY NAPKIN DISPOSER		
AWP	ACOUSTIC WALL PANEL	CT	CERAMIC TILE	FD	FLOOR DRAIN, FIRE DAMPER	HGT	HEIGHT	MB	MARKERBOARD	PRT	PORCELAIN TILE	SOF	SPRAY-ON FIREPROOFING	W	WEST, WIDE, WIDTH
		CTB	CERAMIC TILE BASE	FDN	FOUNDATION	HM	HOLLOW METAL	MBR	MODIFIED BITUMEN ROOF	PS	PENCIL SHARPENER	SPEC	SPECIFICATION, SPECIFICATIONS	W/	WITH
BC	BOTTOM OF CURB	CU FT	CUBIC FEET	FE	FIRE EXTINGUISHER	HORIZ	HORIZONTAL	MECH	MECHANIC, MECHANICAL	PSF	POUNDS PER SQUARE FOOT	SPK	SPEAKER	W/O	WITHOUT
BD	BOARD	CU YD	CUBIC YARD	FEC	FIRE EXTINGUISHER CABINET	HP	HIGH POINT	MED	MEDIUM	PSI	POUNDS PER SQUARE INCH	SQ	SQUARE	WAIN	WAINSCOT
BEJ	BUILDING EXPANSION JOINT	CUH	CABINET UNIT HEATER	FEJ	FLOOR EXPANSION JOINT	HR	HOUR	MEMB	MEMBRANE	PT	PAINT	SS	SOLID SURFACE	WB	WOOD BASE
BETW	BETWEEN	CW	COLD WATER	FF	FINISH FLOOR	HTG	HEATING	MH	MANHOLE	PTD	PAINTED	ST	STAIN, STONE	WC	WATER CLOSET
BIT	BITUMINOUS	CWFP	CEMENTITIOUS WOOD FIBER PANELS	FFE	FINISH FLOOR ELEVATION	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	MIN	MINIMUM	PTN	PARTITION	STC	SOUND TRANSMISSION CLASS	WD	WOOD / WOOD FLOORING
BL	BLEACHER FINISH			FG	FIBER REINFORCED GYPSUM BOARD			MIR	MIRROR	PVC	POLYVINYL CHLORIDE / PVC EDGE BAND	STD	STANDARD	WDB	WOOD BASE
BLDG	BUILDING	D	DEEP, DEPTH, DRAIN	FGL	FIBERGLASS	HW	HOT WATER	MISC	MISCELLANEOUS	PVMT	PAVEMENT	STFT	STOREFRONT	WDW	WINDOW
BLK	BLOCK	DBL	DOUBLE	FH	FIRE HYDRANT	HWH	HOT WATER HEATER	MLD	MOLDING			STL	STEEL	WGL	WIRE GLASS
BLKG	BLOCKING	DEMO	DEMOLITION	FHC	FIRE HOSE CABINET			MM	MILLIMETER	QT	QUARRY TILE	STOR	STORAGE	WH	WATER HEATER
BM	BEAM	DET / DTL	DETAIL	FIN	FINISH, FINISHED	ID	INSIDE DIAMETER	MO	MASONRY OPENING	QTY	QUANTITY	STRUC	STRUCTURAL	WI	WROUGHT IRON
BO	BOTTOM OF	DF	DRINKING FOUNTAIN	FIX	FIXTURE	IN	INCH	MOD	MODIFIED			SUB	SUBSTITUTE	WMS	WIRE MANAGEMENT SLOT
BOT, B	BOTTOM	DH	DOUBLE HUNG	FLEX	FLEXIBLE	INCL	INCLUDE, INCLUDED, INCLUDING	MOV	MOVABLE	R	RISER, RIDGE	SUSP	SUSPENDED	WP	WATERPROOFING
BRG	BEARING	DIA	DIAMETER	FLR	FLOOR	INFO	INFORMATION	MR	MAP RAIL	R/W	RIGHT OF WAY	SYM	SYMMETRICAL, SYMMETRY	WPT	WORKING POINT
BRK	BRICK	DIAG	DIAGONAL	FLSHG	FLASHING	INST	INSTALLATION	MT	MOUNT	RA	RETURN AIR	SYN	SYNTHETIC	WR	WASTE RECEPTACLE
BS	BOTH SIDES	DIM	DIMENSION	FLUOR	FLUORESCENT	INSUL	INSULATE, INSULATED, INSULATION	MTD	MOUNTED, MOUNTING	RAD	RADIUS	SYS	SYSTEM	WT	WEIGHT
BSMT	BASEMENT	DISP	DISPOSAL	FLUR	FLUORESCENT	INT	INTERIOR	MTL	METAL	RAS	RESILIENT ATHLETIC SURFACING			WWF	WELDED WIRE FABRIC
BTWN, B/W	BETWEEN	DIV	DIVISION	FND	FEMININE NAPKIN DISPENSER	INTRLK	INTERLOCK	MULL	MULLION	RB	RESILIENT BASE	T	TREAD	WWM	WELDED WIRE MESH
BUR	BUILT-UP ROOFING	DL	DEAD LOAD	FOC	FACE OF CONCRETE	INV	INVERT	MWP	MEMBRANE WATERPROOFING	RCP	REFLECTED CEILING PLAN	T&B	TOP & BOTTOM		
BVL	BEVELED	DMT	DEMOUNTABLE	FOM	FACE OF MASONRY					RD	ROOF DRAIN	TB	TACK BOARD		
		DN	DOWN	FOS	FACE OF STUDS	JAN	JANITOR	N	NORTH	RECP	RECEPTACLE	TEL	TELEPHONE		
C	CARPET	DPG	DAMPPROOFING	FP	FIREPROOF	JB	JUNCTION BOX	N/C	NO CHARGE	REF	REFERENCE	TEMP	TEMPORARY, TEMPERED		
CAB	CABINET	DPR	DISPENSER	FPL	FIREPLACE	JC	JANITOR CLOSET	NAT	NATURAL	REFRIG	REFRIGERATOR	TERR	TERRAZZO		
CAP	CAPACITY	DR	DOOR, DISPLAY RAIL	FR	FIRE RATED	JCT	JUNCTION	NIC	NOT IN CONTRACT	REINF	REINFORCE, REINFORCED, REINFORCING	TG	TONGUE & GROVE		
CB	CHALKBOARD	DS	DOWNSPOUT	FRG	(GLASS) FIBER REINFORCED GYPSUM	JST	JOIST	NO	NUMBER			THK	THICK, THICKNESS		
CC	CUBICAL CURTAIN			FRM	FRAME, FRAMED			NOM	NOMINAL	REM	REMOVE				

ARCHITECTURAL MATERIAL LEGEND

- CONTINUOUS WOOD BLOCKING
- CONCRETE MASONRY UNIT
- CAST-IN-PLACE CONCRETE
- STEEL
- EARTH / COMPACT FILL
- BATT INSULATION
- POROUS FILL / GRAVEL
- RIGID INSULATION
- GYPSUM BOARD
- RESILIENT FLOORING / PLASTIC LAMINATE
- ALUMINUM
- FINISHED WOOD
- WOOD BLOCKING
- BRICK
- GLASS
- ACOUSTICAL TILE
- PLYWOOD
- CERAMIC TILE - LARGE SCALE
- SAND / MORTAR / PLASTER
- GRAVEL

ARCHITECTURAL GRAPHIC SYMBOLS



MARK	DATE	DESCRIPTION	BY
		REVISIONS	

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
CHECKED	MW

RRMM®
ARCHITECTS, PC
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(757)622-2828

COMMONWEALTH OF VIRGINIA
Jeffrey A Harris
JEFFREY A HARRIS
Lic. No. 10748
1/22/2025
ARCHITECT

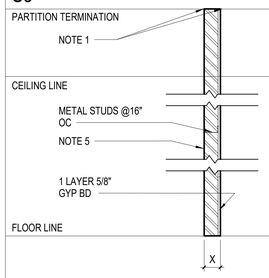
PROJECT: SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING: ARCHITECTURAL GENERAL INFORMATION

SHEET
A-001

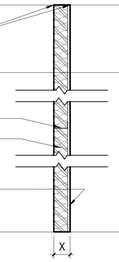
1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32" = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

S3



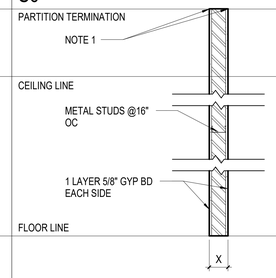
ACTUAL DIMENSION 'X'	4 1/4"
STUD SIZE	3 5/8"
CMU SIZE	-

S3B



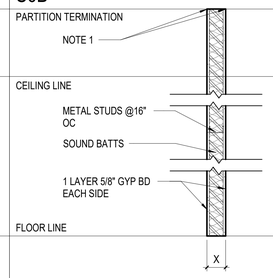
ACTUAL DIMENSION 'X'	4 1/4"
STUD SIZE	3 5/8"
CMU SIZE	-

S6



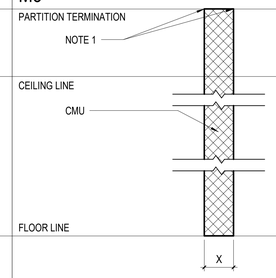
ACTUAL DIMENSION 'X'	4 7/8"
STUD SIZE	3 5/8"
CMU SIZE	-

S6B



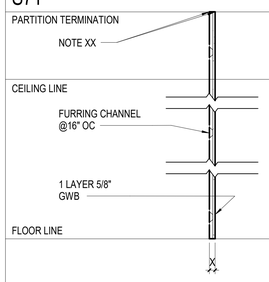
ACTUAL DIMENSION 'X'	4 7/8"
STUD SIZE	3 5/8"
CMU SIZE	-

M3



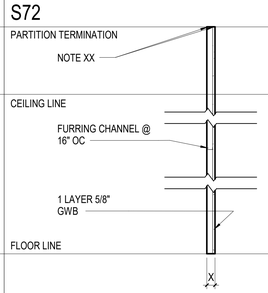
ACTUAL DIMENSION 'X'	7 5/8"
STUD SIZE	-
CMU SIZE	7 5/8"

S71



ACTUAL DIMENSION 'X'	1 1/2"
STUD SIZE	7/8"
CMU SIZE	-

S72



ACTUAL DIMENSION 'X'	2 1/8"
STUD SIZE	1 1/2"
CMU SIZE	-

TESTING LAB CHART

PARTITIONS		
PARTITION TYPE	1 HR RATING	2 HR RATING
NONE RATED		
CEILINGS		
CEILING TYPE	1 HR RATING	2 HR RATING
NONE RATED		

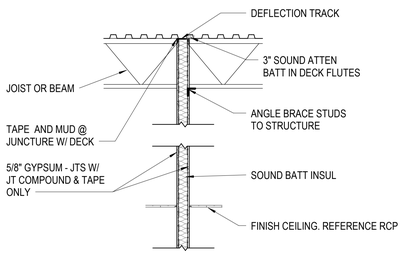
* ASSEMBLY PROVIDES FOR 2 HR FIRE RATING BY CONSTRUCTION; 1 HR OR 2 HR FIRE RATING REQUIRED - REF LIFE SAFETY PLANS.

PARTITION TYPE NOTES

1. PARTITION TERMINATION LOCATION & CONDITIONS MAY VARY. REFER TO REFLECTED CEILING PLANS FOR PARTITION TERMINATION LEGEND AND SHEET ***A-002*** FOR TYPICAL TERMINATION DETAILS.
2. PARTITION TYPES DO NOT INCLUDE ALL APPLIED FINISHES. REFER TO FINISH SCHEDULE.
3. FOR PARTITIONS WITH SINGLE SIDED GYP BD APPLICATIONS, PROVIDE FLAT STRAP BRACING AT 48" OC MIN FOR FULL LENGTH OF WALL

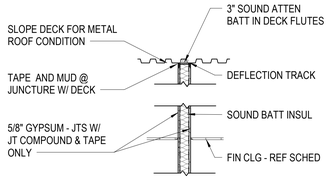
PARTITION TYPES

SCALE: 3/4" = 1'-0"



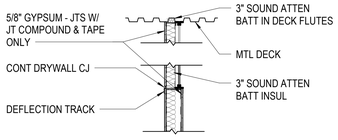
TYP TERMINATION OF MTL STUD PARTITION AT FIRST FLOOR REQ'D TO EXTEND TO BOTTOM OF DECK AT SECOND FLOOR OR FLAT ROOF SHOWN THUS ▬

A TYP DETAIL - MTL STUD PARTITION TERMINATION PERPENDICULAR TO JOIST/ BEAM



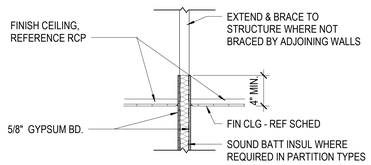
TYP. TERMINATION OF MTL STUD PARTITION REQ'D TO EXTEND TO DECK SHOWN THUS ▬

B TYP DETAIL - MTL STUD PARTITION TERMINATION



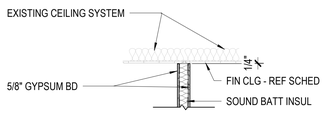
TYP. TERMINATION OF MTL STUD PARTITION REQ'D TO EXTEND TO DECK SHOWN THUS ▬

C TYP DETAIL - METAL STUD PARTITION TERMINATION CONTINUOUS @ JOIST



TYP. TERMINATION OF MTL STUD PARTITION **NOT** REQ'D TO EXTEND TO DECK SHOWN THUS ▭

D TYP DETAIL - MTL STUD PARTITION TERMINATION



TYP. TERMINATION OF MTL STUD PARTITION **NOT** REQ'D TO EXTEND TO DECK SHOWN THUS ▭

E TYP DETAIL - MTL STUD PARTITION TERMINATION

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	1/09/2025	
PROJECT	21222-21	
DESIGNED	MW	
DRAWN	TB	
CHECKED	MW	

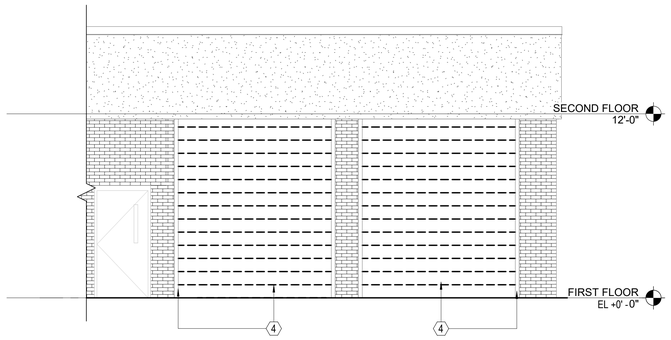
RRMM ARCHITECTS, PC
1317 Executive Blvd, Suite 200
Chesapeake, Virginia 23320
(757)622-2828

COMMONWEALTH OF VIRGINIA
JEFFREY A HARRIS
Lic. No. 10748
1/22/2025
ARCHITECT

PROJECT: SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING: PARTITION TYPES, PARTITION TERMINATION DETAILS

SHEET
A-002



D1 DEMO ELEVATION
AD-101 SCALE: 1/4" = 1'-0"

X DEMOLITION KEYNOTES (SHEETS AD-101 AND AD-102)

1. REMOVE DOOR, FRAME, AND ASSOCIATED HARDWARE COMPLETE.
2. REMOVE DOOR AND ASSOCIATED HARDWARE. LEAVE FRAME IN PLACE AND FIELD VERIFY SIZE OF FRAME TO RECEIVE NEW DOOR.
3. REMOVE EXISTING PLUMBING FIXTURE - REFERENCE PLUMBING DRAWINGS.
4. REMOVE EXISTING ROLL-UP DOOR, FRAME, AND ASSOCIATED HARDWARE COMPLETE. EXISTING STEEL CHANNEL JAMB TO REMAIN.
5. REMOVE EXISTING WINDOW INCLUDING SASH, FRAME, SUBSILL, WINDOW SILL, AND FASTENERS COMPLETE.
6. REMOVE EXISTING CASEWORK (UPPERS + BASES) AND COUNTERTOP COMPLETE.
7. REMOVE STUD AND GYP. BD. PARTITION (INCLUDING DOOR AND FRAME WITHIN PARTITION IF APPLICABLE). PATCH AND REPAIR WALL AND CONCRETE SLAB WHERE REMOVED.
8. DEMOLISH PORTIONS OF EXISTING WALL AS INDICATED IN SECTION. BRACE REMAINING HALF-HEIGHT WALL FRAMING WITH KNEE WALL BRACES.
9. REMOVE EXISTING FLOOR COVERING COMPLETE FOR EXTENT INDICATED. PREPARE EXISTING CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
10. REMOVE EXISTING ACT CEILING IN THIS AREA TO EXTENTS INDICATED IN PREPARATION FOR NEW MECHANICAL WORK, REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. SAWCUT AND REMOVE EXISTING CONCRETE SLAB FOR EXTENTS REQUIRED FOR INSTALLATION OF NEW PLUMBING. COORDIANTE WITH STRUCTURAL DRAWINGS FOR NEW SLAB TIE-INTO EXISTING.
12. REMOVE EXISTING TOILET PARTITION COMPLETE.
13. REMOVE EXISTING DRINKING FOUNTAIN COMPLETE.
14. EXISTING CEILING TO REMAIN. REPLACE EXISTING DAMAGED OR STAINED TILES WITHIN THE EXISTING CEILING GRID.
15. EXISTING ROOFTOP UNIT TO REMAIN.
16. ANY WORK ON OR SURROUNDING THE EXISTING ROOF MEMBRANE SHALL MAINTAIN THE OWNER'S EXISTING ROOF WARRANTY (IF APPLICABLE).
17. EXISTING WINDOW TO REMAIN. PROTECT FROM DAMAGE.
18. EXISTING REFRIDGERATOR TO REMAIN. PROTECT FROM DAMAGE.
19. EXISTING PREFORMED METAL ROOF CAP TO REMAIN.
20. EXISTING FLOOR FINISH AND BASE TO REMAIN. PROTECT FROM DAMAGE.
21. EXISTING SEWER PUMP UNDER EXISTING 2-COMPARTMENT SINK TO REMAIN. REFER TO PLUMBING DWGS.
22. DEMOLISH PORTION OF WALL AS REQUIRED FOR NEW LAVATORY CARRIER AND WATER CONNETIONS. PATCH ALL REMOVED WALL TILE WITH THE SAME SIZE TILE.
23. EXISTING CEILING STRUCTURE TO REMAIN. PREPARE TO RECEIVE NEW PAINT. REFER TO FINISH SCHEDULE.
24. EXISTING CEILING STRUCTURE TO REMAIN.
25. REMOVE EXISTING LOCKERS AND LOCKER BASE, COMPLETE.
26. REMOVE EXISTING CMU WALL TO THE EXTENTS INDICATED. PATCH AND REPAIR WALL AND CONCRETE SLAB WHERE REMOVED
27. REMOVE EXISTING BENCH COMPLETE. PATCH AND REPAIR CONCRETE SLAB WHERE REMOVED
28. BRACE TOP OF WALL TO EXISTING STRUCTURE ABOVE AS REQUIRED DURING DEMOLITION.

GENERAL DEMOLITION AND REPAIR NOTES

A. EXISTING FINISH FLOOR REFERENCE (0'-0") UNLESS NOTED OTHERWISE.

B. PLAN DIMENSIONS FOR EXISTING CONDITIONS ARE TO FACE OF MASONRY OR FINISHED FACE OF STUD PARTITION, UNLESS OTHERWISE NOTED. THICKNESSES OF MASONRY BASED ON NOMINAL SIZES. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE: FIELD VERIFY ALL DIMENSIONS.

C. ALL DEMOLITION WORK NOTED ON THESE DRAWINGS INVOLVES THE REMOVAL OF EXISTING CONSTRUCTION UNDER THE CONTRACT, AND SHALL BE COORDINATED WITH CORRESPONDING NEW WORK FLOOR PLANS AND DETAILS. REMOVE EXISTING CONSTRUCTION AS INDICATED FOR FINISH CONSTRUCTION AND NEW WORK TO CONFORM TO THE DETAILS.

D. DETAILS OF EXISTING CONDITIONS: ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY SOMEWHAT FROM THOSE INDICATED IN DRAWINGS. ALL WORK THAT RELATES TO, OR IS IN ANY WAY AFFECTED BY, EXISTING CONDITIONS WHICH VARY FROM THOSE INDICATED SHALL BE MODIFIED AS REQUIRED BY FIELD CONDITIONS AND MEASUREMENTS. REPORT DISCREPENCIES TO THE ARCHITECT BEFORE PROCEEDING W/ AFFECTED ASPECTS OF CONSTRUCTION OR DEMOLITION.

E. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

F. LOOSE FURNITURE, EQUIPMENT, SUPPLIES AND PERSONAL BELONGINGS LOCATED IN SPACES TO BE RENOVATED SHALL BE REMOVED AND RELOCATED BY OWNER (NIC).

G. LIMITS INDICATED FOR DEMOLITION OF EXISTING BRICK AND CMU MASONRY ARE APPROXIMATE. REMOVE MASONRY UNITS TO NEAREST MORTAR JOINTS TO PERMIT "TOOTHING IN" OF NEW MASONRY TO EXISTING COURSING.

H. REFER TO MECHANICAL DRAWINGS FOR REMOVAL OF THRU-WALL MECHANICAL GRILLES, REGISTERS AND DUCTWORK.

I. PREPARE FLOOR FOR NEW FINISHES SCHEDULED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS FOR FINISH SUBSTRATE. FILL VOIDS AND CRACKS IN CONCRETE W/ SECTION 03300 REQUIREMENTS FOR CONCRETE REPAIR AS WELL AS SPEC SECTIONS FOR APPLIED FINISHES.

J. THE DEMOLITION DWGS INDICATE MAJOR ITEMS TO BE DEMOLISHED. MISCELLANEOUS ABANDONED CONDUIT, WALL PENETRATIONS (IE, SCREWS, NAILS MASONRY ANCHORS), WOOD BLKG AND OTHER VARIOUS ITEM'S FASTENED TO EXISTING WALLS MAY NOT BE INDICATED ON THE DWGS, REMOVE SUCH ITEMS THAT ARE NOT USED IN, OR CONCEALED BY, NEW WORK, PATCH AND REPAIR DAMAGE TO THE WALLS WHERE SUCH ITEMS ARE REMOVED.

K. THE CONTRACTOR SHALL PROTECT ALL DATA EQUIPMENT AND PATCH PANELS FROM DAMAGE, CONSTRUCTION DUST, DEBRIS, AND WATER. PORTIONS OF EXISTING DATA EQUIPMENT AND PATCH PANELS ARE STORED ABOVE EXISTING LOCKERS.

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EXISTING WALL AND/OR DOOR TO BE DEMOLISHED OR REMOVED

EXISTING WINDOW TO BE REMOVED

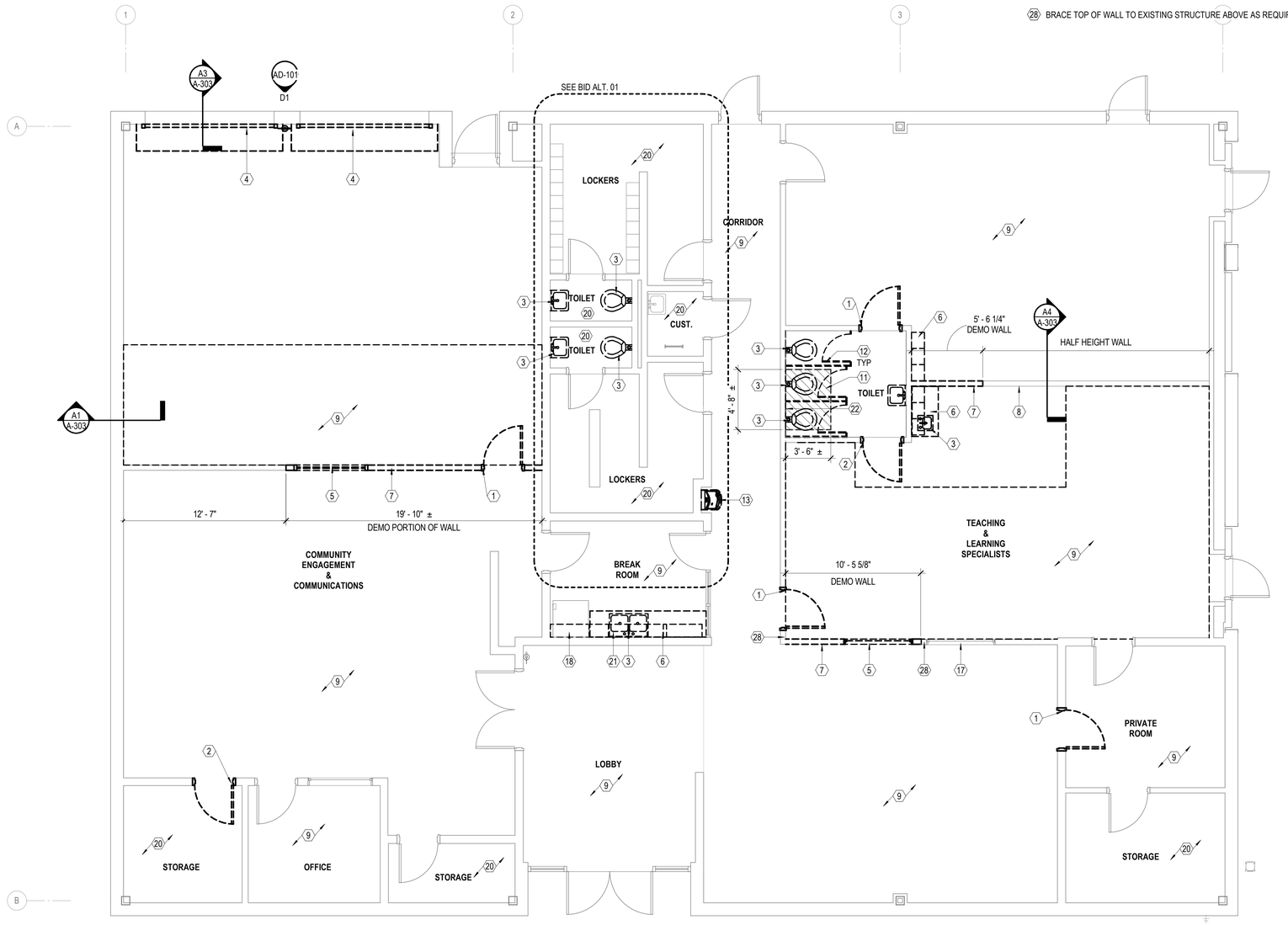
EXISTING WALL, WINDOW, AND/OR DOOR TO REMAIN

EXISTING CEILING TO BE DEMOLISHED

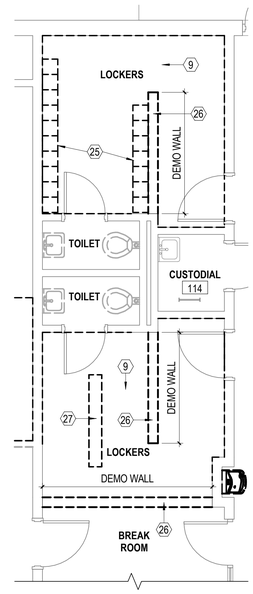
EXISTING CEILING TO REMAIN

EXISTING SLAB TO BE DEMOLISHED

DEMO/NEW LEGEND
SCALE: 1/4" = 1'-0"



DEMO FLOOR PLAN
SCALE: 1/4" = 1'-0"



DEMO FLOOR PLAN - ALT. 01
SCALE: 1/4" = 1'-0"

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
CHECKED	MW

RRMM ARCHITECTS, PC
1317 Executive Blvd, Suite 200
Chesapeake, Virginia 23320
(757)622-2828

COMMONWEALTH OF VIRGINIA
JEFFREY A HARRIS
Lic. No. 10748
1/22/2025
ARCHITECT

PROJECT
SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
41169 Pruden Blvd., Suffolk, VA 23434

DRAWING
OVERALL DEMOLITION PLANS AND DEMO NOTES

SHEET
AD-101

DEMOLITION KEYNOTES (SHEETS AD-101 AND AD-102)

1. REMOVE DOOR, FRAME, AND ASSOCIATED HARDWARE COMPLETE.
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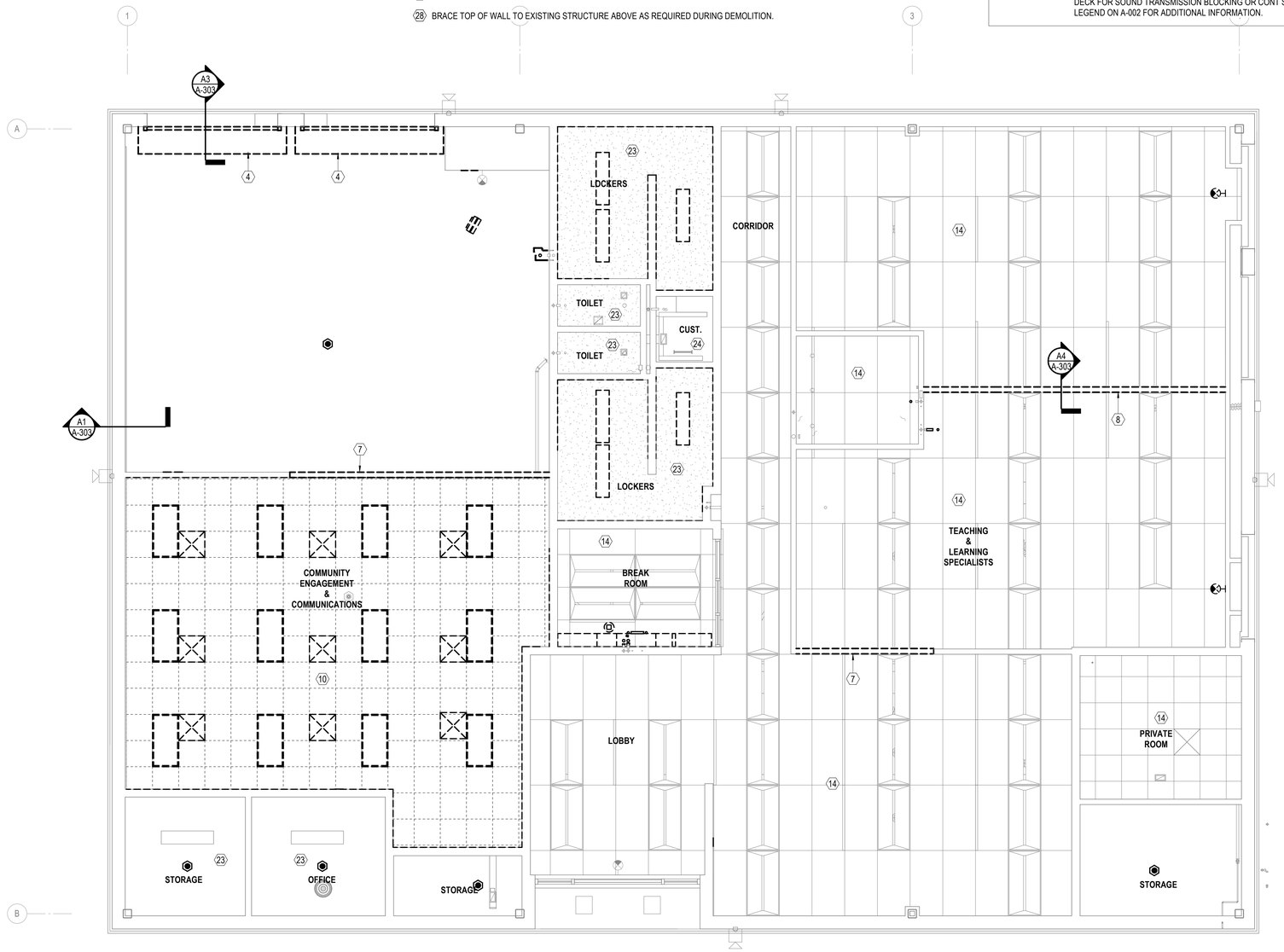

DEMO REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- GYPSUM BOARD CEILING OR BULKHEAD
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 2'-0" x 4'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- ACCOUSTICAL BATT INSULATION ON TOP OF DROP CEILING. KEEP INSULATION CLEAR OF ALL LIGHT FIXTURES
- EXIT LIGHT
- LIGHT FIXTURES
- DOWN LIGHT
- CEILING PROJECTOR MOUNT
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- +X'-X" CEILING HEIGHT
- WIRELESS ACCESS DEVICE - REF ELECTRICAL DWGS
- OS OCCUPANCY SENSOR - REF ELECTRICAL DWGS
- S CEILING SPEAKER - REF ELECTRICAL DWGS
- EXISTING "TENTED" LIGHT WELL IN EXISTING CEILING GRID.

PARTITION TERMINATION LEGEND

PARTITION WHICH PENETRATES THE CLG & TERMINATES 4" ABOV FINISHED CLG. UON
PARTITION WHICH CONTINUES THROUGH CLG TO BOTTOM OF ROOF DECK ABV (UNLESS NOTED OTHERWISE). AT GYP BD PARTITION PROVIDE BATT INSUL IN VOIDS IN DECK FOR SOUND TRANSMISSION BLOCKING OR CONT SEALANT. REF PARTITION TYPE LEGEND ON A-002 FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION AND REPAIR NOTES

A. EXISTING FINISH FLOOR REFERENCE (0'-0") UNLESS NOTED OTHERWISE.

B. PLAN DIMENSIONS FOR EXISTING CONDITIONS ARE TO FACE OF MASONRY OR FINISHED FACE OF STUD PARTITION, UNLESS OTHERWISE NOTED. THICKNESSES OF MASONRY BASED ON NOMINAL SIZES. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE: FIELD VERIFY ALL DIMENSIONS.

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I. PREPARE FLOOR FOR NEW FINISHES SCHEDULED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS FOR FINISH SUBSTRATE. FILL VOIDS AND CRACKS IN CONCRETE W/ SECTION 03300 REQUIREMENTS FOR CONCRETE REPAIR AS WELL AS SPEC SECTIONS FOR APPLIED FINISHES.

J. THE DEMOLITION DWGS INDICATE MAJOR ITEMS TO BE DEMOLISHED. MISCELLANEOUS ABANDONED CONDUIT, WALL PENETRATIONS (IE, SCREWS, NAILS MASONRY ANCHORS), WOOD BLKG AND OTHER VARIOUS ITEM'S FASTENED TO EXISTING WALLS MAY NOT BE INDICATED ON THE DWGS, REMOVE SUCH ITEMS THAT ARE NOT USED IN, OR CONCEALED BY, NEW WORK, PATCH AND REPAIR DAMAGE TO THE WALLS WHERE SUCH ITEMS ARE REMOVED.

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- EXISTING WALL AND/OR DOOR TO BE DEMOLISHED OR REMOVED
- EXISTING WINDOW TO BE REMOVED
- EXISTING WALL, WINDOW, AND/OR DOOR TO REMAIN
- EXISTING CEILING TO BE DEMOLISHED
- EXISTING CEILING TO REMAIN
- EXISTING SLAB TO BE DEMOLISHED

DEMO/NEW LEGEND
SCALE: 1/4" = 1'-0"

MARK	DATE	REVISIONS DESCRIPTION	BY

DATE	1/09/2025		
PROJECT	21222-21		
DESIGNED	MW		
DRAWN	TB		
CHECKED	MW		

RRMM ARCHITECTS, PC
1317 Executive Blvd, Suite 200
Chesapeake, Virginia 23320
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COMMONWEALTH OF VIRGINIA
JEFFREY A HARRIS
Lic. No. 10748
1/22/2025
ARCHITECT

PROJECT
SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING
OVERALL DEMOLITION REFLECTED CEILING PLAN

SHEET
AD-102

REFLECTED CEILING PLAN LEGEND

- GYPSUM BOARD CEILING OR BULKHEAD
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 2'-0" x 4'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- ACCOUSTICAL BATT INSULATION ON TOP OF DROP CEILING. KEEP INSULATION CLEAR OF ALL LIGHT FIXTURES
- EXIT LIGHT
- LIGHT FIXTURES
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- CEILING PROJECTOR MOUNT
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
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- (W) WIRELESS ACCESS DEVICE - REF ELECTRICAL DWGS
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- (S) CEILING SPEAKER - REF ELECTRICAL DWGS
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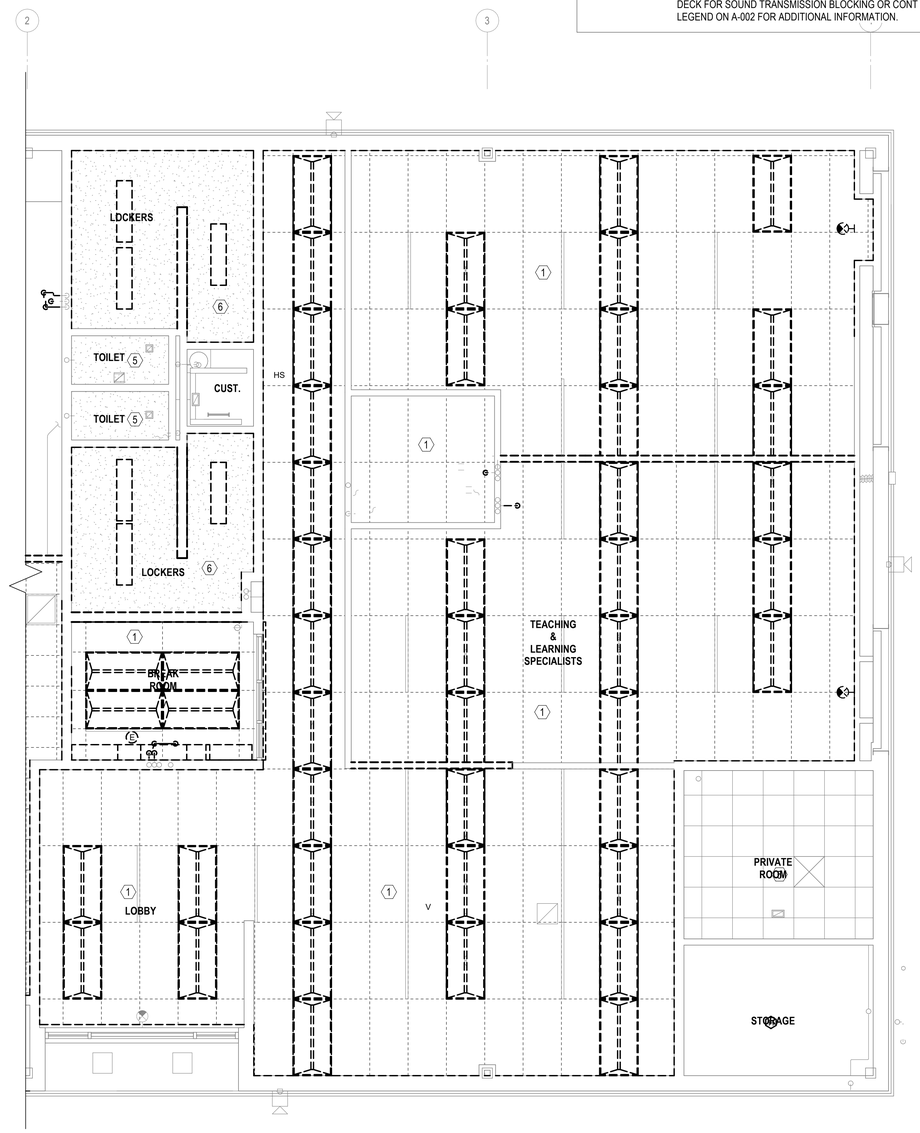
PARTITION TERMINATION LEGEND

PARTITION WHICH PENETRATES THE CLG & TERMINATES 4" ABOV FINISHED CLG. UON

PARTITION WHICH CONTINUES THROUGH CLG TO BOTTOM OF ROOF DECK ABV (UNLESS NOTED OTHERWISE). AT GYP BD PARTITION PROVIDE BATT INSUL IN VOIDS IN DECK FOR SOUND TRANSMISSION BLOCKING OR CONT SEALANT. REF PARTITION TYPE LEGEND ON A-002 FOR ADDITIONAL INFORMATION.



DEMO REFLECTED CEILING PLAN - ALT. 01

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

GENERAL DEMOLITION AND REPAIR NOTES

A. EXISTING FINISH FLOOR REFERENCE (0'-0") UNLESS NOTED OTHERWISE.

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DEMO/NEW LEGEND

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

(X) DEMOLITION KEYNOTES - ALT. 01

1. REMOVE EXISTING VENTILATED GRID CEILING COMPLETE.
2. REMOVE EXISTING ROOFTOP EXHAUST FAN. EXISTING CURB TO REMAIN.
3. PREFORMED METAL CURB CAP TO REMAIN.
4. DEMOLISH EXISTING RTU. EXISTING MECHANICAL CURB TO REMAIN AND BE RE-USED.
5. EXISTING CEILING TO REMAIN. REPLACE EXISTING DAMAGED OR STAINED TILES (IF APPLICABLE).
6. REMOVE EXISTING GYPSUM CEILING AND ALL CEILING MOUNTED FIXTURES TO THE EXTENTS INDICATED.
7. DEMOLISH EXISTING RTU AND ITS ASSOCIATED MECHANICAL CURB. CONTACT MANUFACTURER OF EXISTING WARRANTED MEMBRANE ROOFING SYSTEM PRIOR TO DEMOLITION TO VERIFY ACCEPTANCE OF NEW ROOF PATCH.

MARK	DATE	REVISIONS	BY
		DESCRIPTION	

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
CHECKED	MW

RRMM ARCHITECTS, PC
1317 Executive Blvd, Suite 200
Chesapeake, Virginia 23320
(757)622-2828

COMMONWEALTH OF VIRGINIA
JEFFREY A HARRIS
Lic. No. 10748
1/22/2025
ARCHITECT

PROJECT
SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING
OVERALL DEMOLITION REFLECTED CEILING PLAN ALT 01

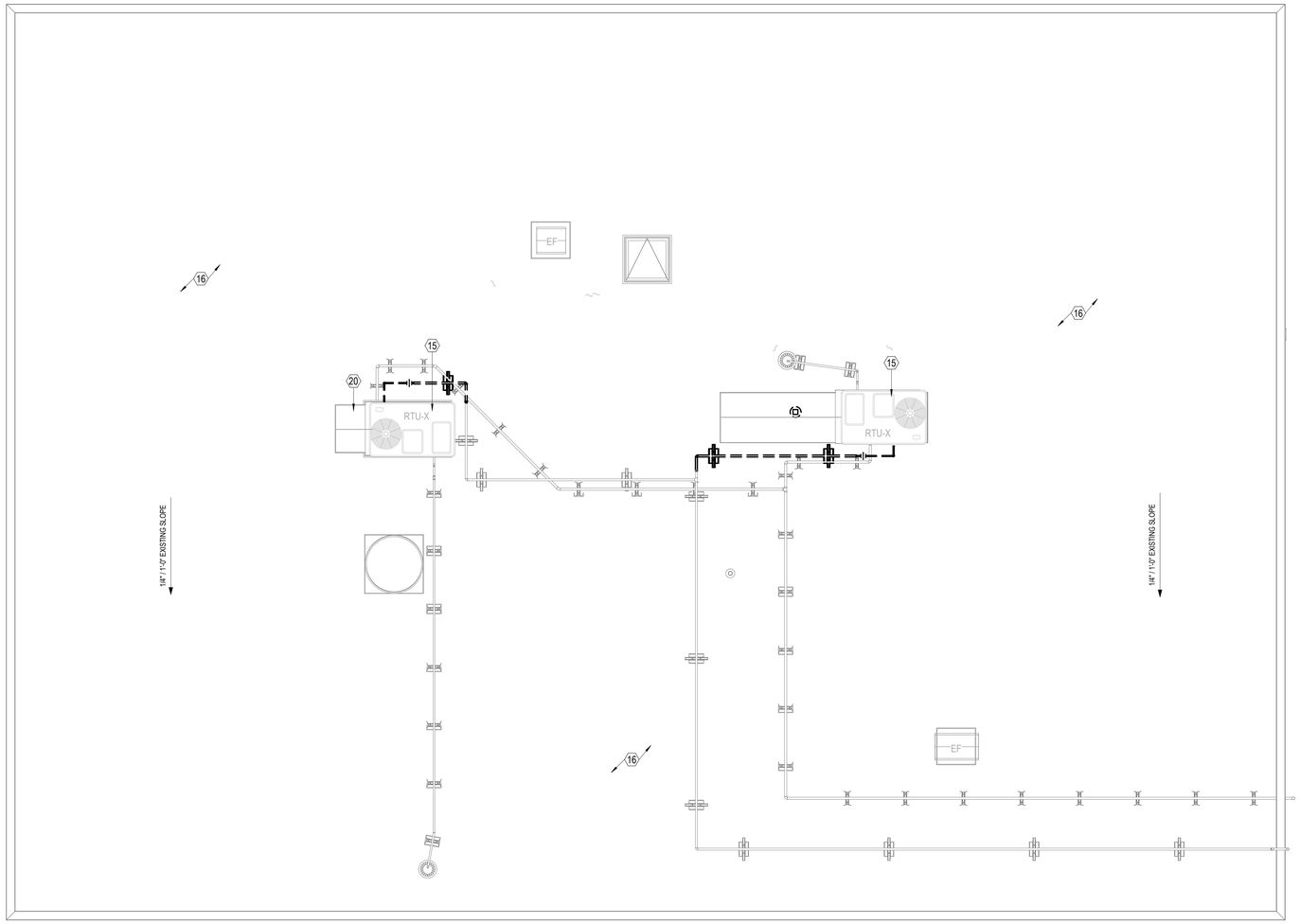
SHEET
AD-103

ⓧ DEMOLITION KEYNOTES (SHEETS AD-101 AND AD-102)

1. REMOVE DOOR, FRAME, AND ASSOCIATED HARDWARE COMPLETE.
2. REMOVE DOOR AND ASSOCIATED HARDWARE. LEAVE FRAME IN PLACE AND FIELD VERIFY SIZE OF FRAME TO RECEIVE NEW DOOR.
3. REMOVE EXISTING PLUMBING FIXTURE - REFERENCE PLUMBING DRAWINGS.
4. REMOVE EXISTING ROLL-UP DOOR, FRAME, AND ASSOCIATED HARDWARE COMPLETE. EXISTING STEEL CHANNEL JAMB TO REMAIN.
5. REMOVE EXISTING WINDOW INCLUDING SASH, FRAME, SUBSILL, WINDOW SILL, AND FASTENERS COMPLETE.
6. REMOVE EXISTING CASEWORK (UPPERS + BASES) AND COUNTERTOP COMPLETE.
7. REMOVE STUD AND GYP. BD. PARTITION (INCLUDING DOOR AND FRAME WITHIN PARTITION IF APPLICABLE). PATCH AND REPAIR WALL AND CONCRETE SLAB WHERE REMOVED.
8. DEMOLISH PORTIONS OF EXISTING WALL AS INDICATED IN SECTION. BRACE REMAINING HALF-HEIGHT WALL FRAMING WITH KNEE WALL BRACES.
9. REMOVE EXISTING FLOOR COVERING COMPLETE FOR EXTENT INDICATED. PREPARE EXISTING CONCRETE SLAB TO RECEIVE NEW FLOOR FINISH.
10. REMOVE EXISTING ACT CEILING IN THIS AREA TO EXTENTS INDICATED IN PREPARATION FOR NEW MECHANICAL WORK, REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. SAWCUT AND REMOVE EXISTING CONCRETE SLAB FOR EXTENTS REQUIRED FOR INSTALLATION OF NEW PLUMBING. COORDIANTE WITH STRUCTURAL DRAWINGS FOR NEW SLAB TIE-INTO EXISTING.
12. REMOVE EXISTING TOILET PARTITION COMPLETE.
13. REMOVE EXISTING DRINKING FOUNTAIN COMPLETE.
14. EXISTING CEILING TO REMAIN. REPLACE EXISTING DAMAGED OR STAINED TILES WITHIN THE EXISTING CEILING GRID.
15. EXISTING ROOFTOP UNIT TO REMAIN.
16. ANY WORK ON OR SURROUNDING THE EXISTING ROOF MEMBRANE SHALL MAINTAIN THE OWNER'S EXISTING ROOF WARRANTY (IF APPLICABLE).
17. EXISTING WINDOW TO REMAIN. PROTECT FROM DAMAGE.
18. EXISTING REFRIDGERATOR TO REMAIN. PROTECT FROM DAMAGE.
19. EXISTING PREFORMED METAL ROOF CAP TO REMAIN.
20. EXISTING FLOOR FINISH AND BASE TO REMAIN. PROTECT FROM DAMAGE.
21. EXISTING SEWER PUMP UNDER EXISTING 2-COMPARTMENT SINK TO REMAIN. REFER TO PLUMBING DWGS.
22. DEMOLISH PORTION OF WALL AS REQUIRED FOR NEW LAVATORY CARRIER AND WATER CONNETIONS. PATCH ALL REMOVED WALL TILE WITH THE SAME SIZE TILE.
23. EXISTING CEILING STRUCTURE TO REMAIN. PREPARE TO RECEIVE NEW PAINT. REFER TO FINISH SCHEDULE.
24. EXISTING CEILING STRUCTURE TO REMAIN.
25. REMOVE EXISTING LOCKERS AND LOCKER BASE, COMPLETE.
26. REMOVE EXISTING CMU WALL TO THE EXTENTS INDICATED. PATCH AND REPAIR WALL AND CONCRETE SLAB WHERE REMOVED
27. REMOVE EXISTING BENCH COMPLETE. PATCH AND REPAIR CONCRETE SLAB WHERE REMOVED
28. BRACE TOP OF WALL TO EXISTING STRUCTURE ABOVE AS REQUIRED DURING DEMOLITION.

ROOF PLAN LEGEND

	ROOF DRAIN / OVERFLOW DRAIN - REF DTLS A1/A-123, A-124, & PLUMBING DWGS FOR ADDITIONAL INFO - COORD EXACT LOCATION W/ STRUCTURAL SUPPORT
DS	DOWNSPOUT
EF EF	EXHAUST FAN
VTR	PLUMBING VENT THROUGH ROOF (VTR)- REF DTLS ON A-XXX
	2'-0" X 2'-0" X 1/4" WALKWAY PADS AS SHOWN SPACED 6" APART TYPICAL
X : 12	SLOPED ROOF STRUCTURE AS INDICATED
RTU-X	ROOF TOP UNIT- REF. MECHANICAL DRAWINGS
	DASHED LINE INDICATES LOCATION OF WALL BELOW
RV	ROOF VENT- REF MECHANICAL DWGS AND CURB DTL



DEMO ROOF PLAN
SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION AND REPAIR NOTES

A. EXISTING FINISH FLOOR REFERENCE (0'-0") UNLESS NOTED OTHERWISE.

B. PLAN DIMENSIONS FOR EXISTING CONDITIONS ARE TO FACE OF MASONRY OR FINISHED FACE OF STUD PARTITION, UNLESS OTHERWISE NOTED. THICKNESSES OF MASONRY BASED ON NOMINAL SIZES. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE: FIELD VERIFY ALL DIMENSIONS.

C. ALL DEMOLITION WORK NOTED ON THESE DRAWINGS INVOLVES THE REMOVAL OF EXISTING CONSTRUCTION UNDER THE CONTRACT, AND SHALL BE COORDINATED WITH CORRESPONDING NEW WORK FLOOR PLANS AND DETAILS. REMOVE EXISTING CONSTRUCTION AS INDICATED FOR FINISH CONSTRUCTION AND NEW WORK TO CONFORM TO THE DETAILS.

D. DETAILS OF EXISTING CONDITIONS: ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY SOMEWHAT FROM THOSE INDICATED IN DRAWINGS. ALL WORK THAT RELATES TO, OR IS IN ANY WAY AFFECTED BY, EXISTING CONDITIONS WHICH VARY FROM THOSE INDICATED SHALL BE MODIFIED AS REQUIRED BY FIELD CONDITIONS AND MEASUREMENTS. REPORT DISCREPENCIES TO THE ARCHITECT BEFORE PROCEEDING W/ AFFECTED ASPECTS OF CONSTRUCTION OR DEMOLITION.

E. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

F. LOOSE FURNITURE, EQUIPMENT, SUPPLIES AND PERSONAL BELONGINGS LOCATED IN SPACES TO BE RENOVATED SHALL BE REMOVED AND RELOCATED BY OWNER (NIC).

G. LIMITS INDICATED FOR DEMOLITION OF EXISTING BRICK AND CMU MASONRY ARE APPROXIMATE. REMOVE MASONRY UNITS TO NEAREST MORTAR JOINTS TO PERMIT "TOOTHING IN" OF NEW MASONRY TO EXISTING COURSING.

H. REFER TO MECHANICAL DRAWINGS FOR REMOVAL OF THRU-WALL MECHANICAL GRILLES, REGISTERS AND DUCTWORK.

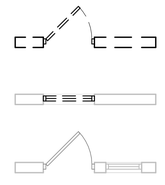
I. PREPARE FLOOR FOR NEW FINISHES SCHEDULED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS FOR FINISH SUBSTRATE. FILL VOIDS AND CRACKS IN CONCRETE W/ SECTION 03300 REQUIREMENTS FOR CONCRETE REPAIR AS WELL AS SPEC SECTIONS FOR APPLIED FINISHES.

J. THE DEMOLITION DWGS INDICATE MAJOR ITEMS TO BE DEMOLISHED. MISCELLANEOUS ABANDONED CONDUIT, WALL PENETRATIONS (IE, SCREWS, NAILS MASONRY ANCHORS), WOOD BLKG AND OTHER VARIOUS ITEM'S FASTENED TO EXISTING WALLS MAY NOT BE INDICATED ON THE DWGS, REMOVE SUCH ITEMS THAT ARE NOT USED IN, OR CONCEALED BY, NEW WORK, PATCH AND REPAIR DAMAGE TO THE WALLS WHERE SUCH ITEMS ARE REMOVED.

K. THE CONTRACTOR SHALL PROTECT ALL DATA EQUIPMENT AND PATCH PANELS FROM DAMAGE, CONSTRUCTION DUST, DEBRIS, AND WATER. PORTIONS OF EXISTING DATA EQUIPMENT AND PATCH PANELS ARE STORED ABOVE EXISTING LOCKERS.

L. PREPARE WALLS FOR NEW FINISHES SCHEDULED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS FOR FINISH SUBSTRATE. FILL VOIDS AND CRACKS AS REQUIRED. PROVIDE MULTIPLE COATS (MIN 2 COATS) OF PRIMER @ EXPOSED MASONRY/ CMU TO PROVIDE A MORE UNIFORM SURFACE W/ ADJACENT PAINTED SURFACES.

M. PREPARE EXISTING WALLS FOR INSTALLATION OF WALL MOUNTED ELECTRICAL AND DATA RACEWAYS WHERE SCHEDULED. COORDINATE W/ NEW WORK REQUIREMENTS AND ELECTRICAL PLANS.



EXISTING WALL AND/OR DOOR TO BE DEMOLISHED OR REMOVED

EXISTING WINDOW TO BE REMOVED

EXISTING WALL, WINDOW, AND/OR DOOR TO REMAIN

EXISTING CEILING TO BE DEMOLISHED

EXISTING CEILING TO REMAIN

EXISTING SLAB TO BE DEMOLISHED

DEMO/NEW LEGEND
SCALE: 1/4" = 1'-0"

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DRAWING
OVERALL DEMOLITION ROOF PLAN

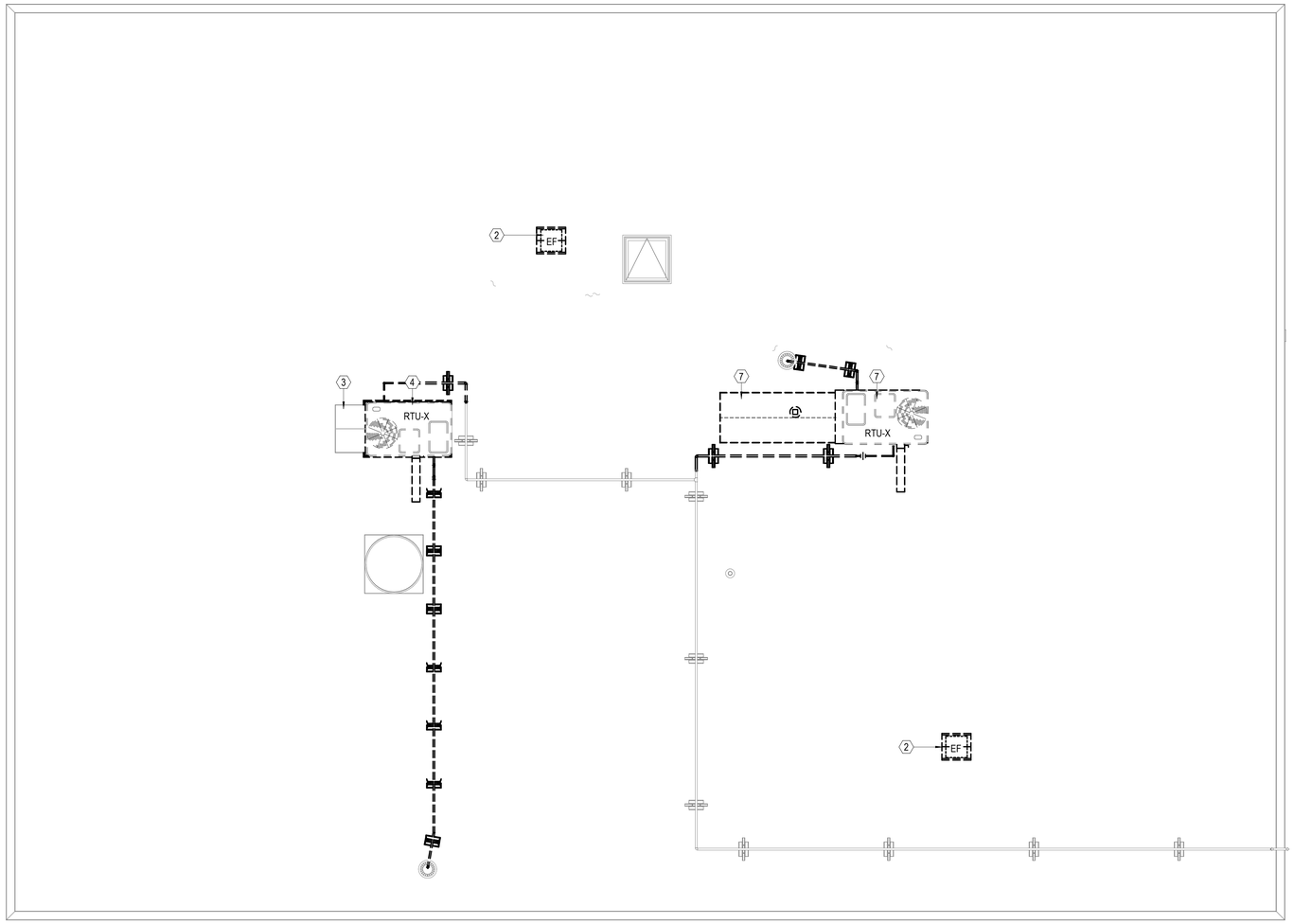
SHEET
AD-104

1/22/2025 12:53:06 PM Autodesk Docs://21222-21 SPS Pruden Daycare/21222-21 v24 SPS Pruden Daycare - ARCH.rvt

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"

ROOF PLAN LEGEND

	ROOF DRAIN / OVERFLOW DRAIN - REF DTLS A1/A-123, A-124, & PLUMBING DWGS FOR ADDITIONAL INFO - COORD EXACT LOCATION W/ STRUCTURAL SUPPORT
DS	DOWNSPOUT
EF EF	EXHAUST FAN
VTR	PLUMBING VENT THROUGH ROOF (VTR)- REF DTLS ON A-XXX
	2'-0" X 2'-0" X 1/4" WALKWAY PADS AS SHOWN SPACED 6" APART TYPICAL
X : 12	SLOPED ROOF STRUCTURE AS INDICATED
RTU-X	ROOF TOP UNIT- REF. MECHANICAL DRAWINGS
	DASHED LINE INDICATES LOCATION OF WALL BELOW
RV	ROOF VENT- REF MECHANICAL DWGS AND CURB DTL



DEMO ROOF PLAN - ALT. 01

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

GENERAL DEMOLITION AND REPAIR NOTES

A. EXISTING FINISH FLOOR REFERENCE (0'-0") UNLESS NOTED OTHERWISE.

B. PLAN DIMENSIONS FOR EXISTING CONDITIONS ARE TO FACE OF MASONRY OR FINISHED FACE OF STUD PARTITION, UNLESS OTHERWISE NOTED. THICKNESSES OF MASONRY BASED ON NOMINAL SIZES. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE: FIELD VERIFY ALL DIMENSIONS.

C. ALL DEMOLITION WORK NOTED ON THESE DRAWINGS INVOLVES THE REMOVAL OF EXISTING CONSTRUCTION UNDER THE CONTRACT, AND SHALL BE COORDINATED WITH CORRESPONDING NEW WORK FLOOR PLANS AND DETAILS. REMOVE EXISTING CONSTRUCTION AS INDICATED FOR FINISH CONSTRUCTION AND NEW WORK TO CONFORM TO THE DETAILS.

D. DETAILS OF EXISTING CONDITIONS: ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY SOMEWHAT FROM THOSE INDICATED IN DRAWINGS. ALL WORK THAT RELATES TO, OR IS IN ANY WAY AFFECTED BY, EXISTING CONDITIONS WHICH VARY FROM THOSE INDICATED SHALL BE MODIFIED AS REQUIRED BY FIELD CONDITIONS AND MEASUREMENTS. REPORT DISCREPENCIES TO THE ARCHITECT BEFORE PROCEEDING W/ AFFECTED ASPECTS OF CONSTRUCTION OR DEMOLITION.

E. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

F. LOOSE FURNITURE, EQUIPMENT, SUPPLIES AND PERSONAL BELONGINGS LOCATED IN SPACES TO BE RENOVATED SHALL BE REMOVED AND RELOCATED BY OWNER (NIC).

G. LIMITS INDICATED FOR DEMOLITION OF EXISTING BRICK AND CMU MASONRY ARE APPROXIMATE. REMOVE MASONRY UNITS TO NEAREST MORTAR JOINTS TO PERMIT "TOOTHING IN" OF NEW MASONRY TO EXISTING COURSING.

H. REFER TO MECHANICAL DRAWINGS FOR REMOVAL OF THRU-WALL MECHANICAL GRILLES, REGISTERS AND DUCTWORK.

I. PREPARE FLOOR FOR NEW FINISHES SCHEDULED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS FOR FINISH SUBSTRATE. FILL VOIDS AND CRACKS IN CONCRETE W/ SECTION 03300 REQUIREMENTS FOR CONCRETE REPAIR AS WELL AS SPEC SECTIONS FOR APPLIED FINISHES.

J. THE DEMOLITION DWGS INDICATE MAJOR ITEMS TO BE DEMOLISHED. MISCELLANEOUS ABANDONED CONDUIT, WALL PENETRATIONS (IE, SCREWS, NAILS MASONRY ANCHORS), WOOD BLKG AND OTHER VARIOUS ITEM'S FASTENED TO EXISTING WALLS MAY NOT BE INDICATED ON THE DWGS, REMOVE SUCH ITEMS THAT ARE NOT USED IN, OR CONCEALED BY, NEW WORK, PATCH AND REPAIR DAMAGE TO THE WALLS WHERE SUCH ITEMS ARE REMOVED.

K. THE CONTRACTOR SHALL PROTECT ALL DATA EQUIPMENT AND PATCH PANELS FROM DAMAGE, CONSTRUCTION DUST, DEBRIS, AND WATER. PORTIONS OF EXISTING DATA EQUIPMENT AND PATCH PANELS ARE STORED ABOVE EXISTING LOCKERS.

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M. PREPARE EXISTING WALLS FOR INSTALLATION OF WALL MOUNTED ELECTRICAL AND DATA RACEWAYS WHERE SCHEDULED. COORDINATE W/ NEW WORK REQUIREMENTS AND ELECTRICAL PLANS.

EXISTING WALL AND/OR DOOR TO BE DEMOLISHED OR REMOVED	EXISTING CEILING TO BE DEMOLISHED
EXISTING WINDOW TO BE REMOVED	EXISTING CEILING TO REMAIN
EXISTING WALL, WINDOW, AND/OR DOOR TO REMAIN	EXISTING SLAB TO BE DEMOLISHED

DEMO/NEW LEGEND

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

(X) DEMOLITION KEYNOTES - ALT. 01

1. REMOVE EXISTING VENTILATED GRID CEILING COMPLETE.
2. REMOVE EXISTING ROOFTOP EXHAUST FAN. EXISTING CURB TO REMAIN.
3. PREFORMED METAL CURB CAP TO REMAIN.
4. DEMOLISH EXISTING RTU. EXISTING MECHANICAL CURB TO REMAIN AND BE RE-USED.
5. EXISTING CEILING TO REMAIN. REPLACE EXISTING DAMAGED OR STAINED TILES (IF APPLICABLE).
6. REMOVE EXISTING GYPSUM CEILING AND ALL CEILING MOUNTED FIXTURES TO THE EXTENTS INDICATED.
7. DEMOLISH EXISTING RTU AND ITS ASSOCIATED MECHANICAL CURB. CONTACT MANUFACTURER OF EXISTING WARRANTED MEMBRANE ROOFING SYSTEM PRIOR TO DEMOLITION TO VERIFY ACCEPTANCE OF NEW ROOF PATCH.

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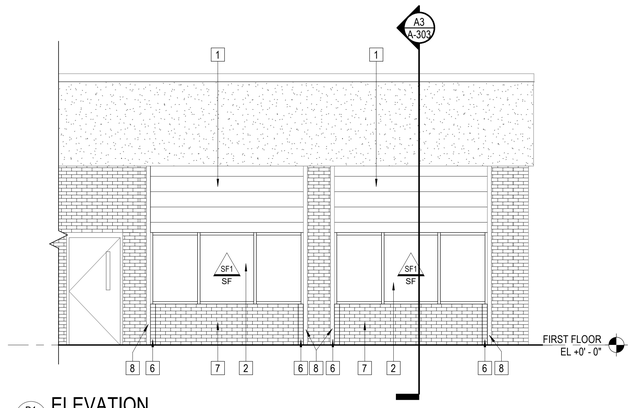
DRAWING
OVERALL DEMOLITION ROOF PLAN ALT 01

SHEET
AD-105



D1
A-101
ELEVATION
SCALE: 1/4" = 1'-0"

KEY NOTES

1. PREFINISHED FACTORY FORMED HORIZONTAL METAL WALL PANELS. BASIS OF DESIGN MORIN, MATRIX SERIES (MX-6). COLOR: PAINT TO MATCH THE EXISTING ROLL UP DOOR AND PAINTED STEEL JAMB. SUBMIT SAMPLE TO ARCHITECT FOR VERIFICATION.
2. PREFINISHED THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. REFER TO A-603
3. ALIGN FACE OF STUD TO FACE OF EXISTING CMU WALL.
4. WORKSTATION LAYOUT PROVIDED FOR REFERENCE ONLY. FURNITURE IS NOT IN CONTRACT.
5. LOCATE WALL SO FINISH FACE OF WALL ALIGNS WITH ADJACENT CMU WALL.
6. 4" HEADER BRICK. DEPRESSED 1/2" FROM FACE OF WALL.
7. FIELD BRICK. BRICK COURSING TO MATCH ADJACENT, EXISTING BRICK VENEER.
8. EXISTING METAL CHANNEL JAMB.
9. EXISTING TRANSFORMER. REFER TO ELECTRICAL DRAWINGS.
10. EXISTING ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
11. TOP OF SLAB TO BE LEVEL WITH EXISTING TILE FLOOR.
12. BRACE TOP OF WALL TO EXISTING STRUCTURE ABOVE. REFER TO TOP OF WALL DETAILS ON A-002.

GENERAL NOTES - OVERALL PLANS

A. UNLESS OTHERWISE NOTED, ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR STRUCTURAL COLUMN GRID. DIMENSIONS TO EXISTING WALLS ARE TO THE FINISH FACE. REFER TO PARTITION TYPES FOR PARTITION DIMENSIONS, TYPICAL DETAILS, AND ADDITIONAL PARTITION NOTES.

B. WHERE A PARTICULAR DETAIL OR CONDITION OCCURS IN SEVERAL LOCATIONS, SPECIFIC DETAIL REFERENCES MAY NOT APPEAR ON THE DRAWINGS IN EACH AND EVERY CASE. THE DRAWINGS INFER THAT THE DETAIL REFERENCE WILL APPLY WITHOUT HAVING A SPECIFIC REFERENCE AT EACH OCCURANCE. IF A CONDITION IS IN DOUBT, REFER QUESTIONS TO THE ARCHITECT FOR CLARIFICATION.

C. VERIFY DIMENSIONS REQUIRED FOR ALL SLOTS, CHASES, OPENINGS, AND RECESSES THROUGH FLOORS, WALLS, CEILINGS, AND ROOFS REQUIRED FOR PROPER INSTALLATION OF THE WORK PRIOR TO CONSTRUCTION.

D. ARTITION TERMINATION INFORMATION IS INDICATED ON THE REFLECTED CEILING PLANS AND PARTITION TYPES.

E. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS, PARTITION TYPES, AND OTHER INFORMATION THAT MAY NOT APPEAR ON THE OVERALL PLANS.

F. GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND EXAMINE ALL STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DOCUMENTS. MUCH OF THE INFORMATION IS NOT REPEATED OR SHOWN IN THE ARCHITECTURAL DOCUMENTS.

G. ALL WOOD BLOCKING IN CONTACT WITH MASONRY SHALL BE PRESERVATIVE PRESSURE TREATED U.O.N.

H. CLEAN ALL NEW AND EXISTING BRICK VENEER SURFACES AFTER NEW WORK IS COMPLETED WITH MANUFACTURER'S RECOMMENDED CHEMICAL CLEANER AND LOW PRESSURE POWER WASHING.

I. REFER TO DEMOLITION DRAWINGS FOR FLOOR AND WALL CUTS, INFILLS, NOTES, AND DETAILS.

J. PATCH AND REPAIR ALL EXISTING CONCRETE FLOOR SLABS DAMAGED BY DEMOLITION OPERATIONS, (SUCH AS EXISTING PLUMBING, PIPING, AND ELECTRICAL CONDUIT ABANDONED BELOW FLOOR OR NEW UTILITIES INSTALLED UNDER EXISTING FLOOR) WITH CONCRETE TO MATCH EXISITNG. FINISH FLUSH WITH ADJACENT SURFACE.

K. AFTER REMOVAL OF EXISITNG FLOOR COVERING, USE LEVELING AND PATCHING COMPOUND(S) TO CORRECT SURFACE IRREGULARITIES PRIOR TO INSTALLATION OF NEW FLOOR FINISHES.

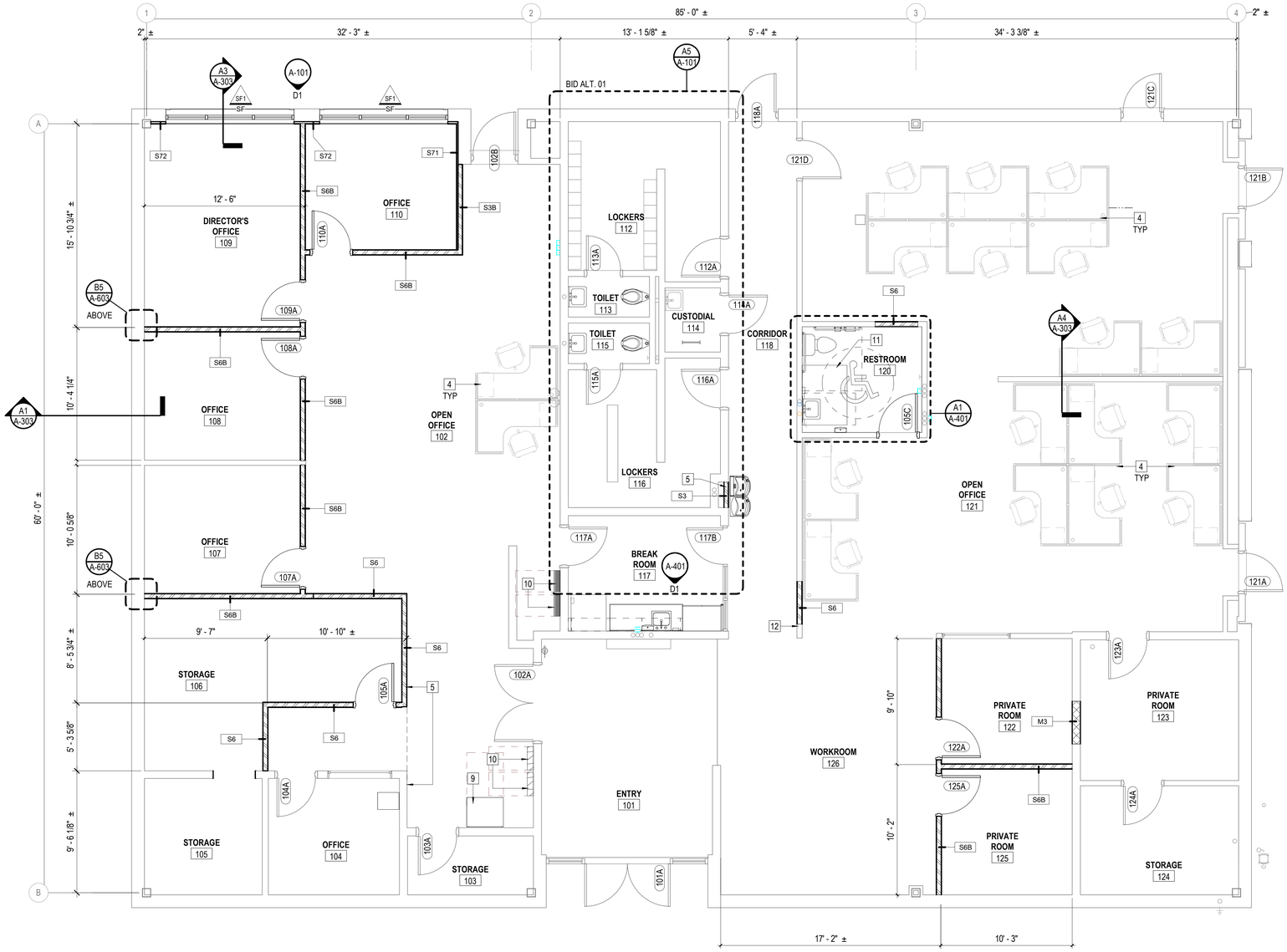
L. PATCH AND REPAIR ALL EXISTING CMU WALL SURFACES DAMAGED BY DEMOLITION OPERATIONS, (INCLUDING INTERSECTING WALLS, APPLIED FINISHES, OR WALL MOUNTED ACCESSORIES OR EQUIPMENT) AND WHICH WILL BE EXPOSED IN FINAL CONSTRUCTION WITH MORTAR TO PROVIDE UNIFORM WALL SURFACE FREE OF IRREGULARITIES, WHERE ACCEPTABLE PATCH CANNOT BE ATTAINED WITH MORTAR, CUT OUT EXISTING CMU ALONG JOINT LINES AND PROVIDE NEW CMU "SOAPS" AS NEEDED.

M. WHERE REMOVAL OF WALL MOUNTED ITEMS RESULTS IN EDGE OF PAINT "BUILD-UP" VISIBLE IN FINAL NEW WORK, CAREFULLY REMOVE "BUILD-UP" TO PROVIDE "LINE NEW" CONDITION.

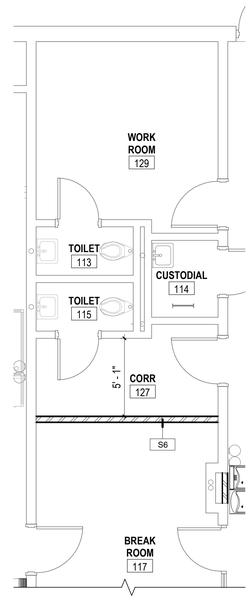
N. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE. FIELD VERIFY ALL DIMENSIONS.

O. DETAILS OF EXISTING CONDITIONS: ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY FROM THOSE INDICATED IN THE DRAWINGS. ALL WORK THAT RELATED TO, OR IS IN ANY WAY AFFECTED BY, EXISTING CONDITIONS WHICH VARY FROM THOSE INDICATED SHALL BE MODIFIED AS REQUIRED BY FIELD CONDITIONS AND MEASUREMENTS. REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH AFFECTED ASPECTS OF CONSTRUCTION OR DEMOLITION.

P. PREPARE FINISH FLOOR SUBSTRATE FOR NEW FINISHES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



OVERALL FLOOR PLAN
SCALE: 1/4" = 1'-0"



A5
A-101
FLOOR PLAN - ALT. 01
SCALE: 1/4" = 1'-0"

MARK	DATE	REVISIONS	BY
			DESCRIPTION

DATE	1/09/2025
PROJECT	21222-21
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ARCHITECT

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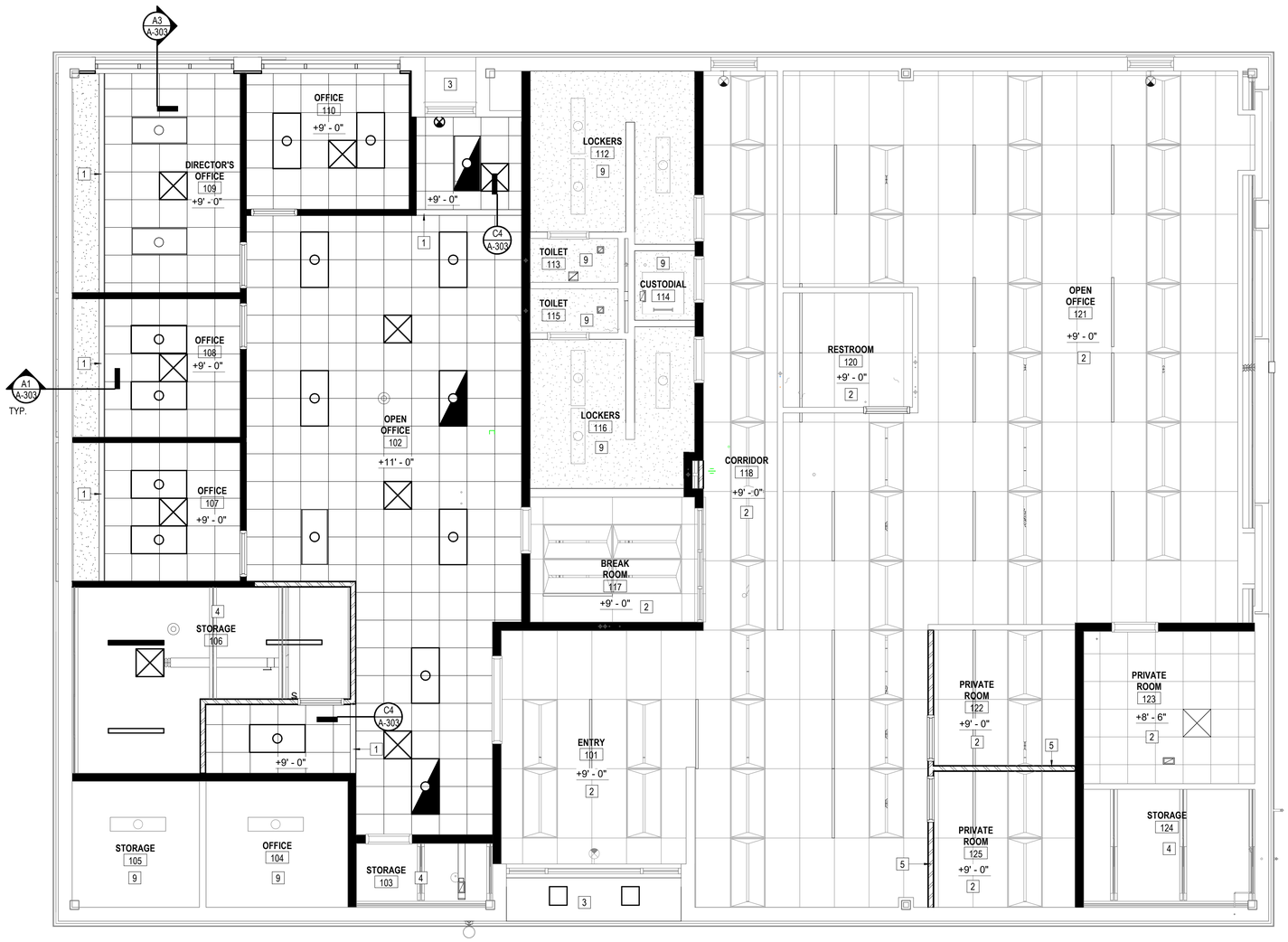
DRAWING
OVERALL FLOOR PLAN

SHEET
A-101



OVERALL REFLECTED CEILING PLAN

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

REFLECTED CEILING PLAN LEGEND

- GYPSUM BOARD CEILING OR BULKHEAD
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 2'-0" x 4'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- ACCOUSTICAL BATT INSULATION ON TOP OF DROP CEILING. KEEP INSULATION CLEAR OF ALL LIGHT FIXTURES
- EXIT LIGHT
- LIGHT FIXTURES
- DOWN LIGHT
- CEILING PROJECTOR MOUNT
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- +X'-X" CEILING HEIGHT
- W WIRELESS ACCESS DEVICE - REF ELECTRICAL DWGS
- OS OCCUPANCY SENSOR - REF ELECTRICAL DWGS
- S CEILING SPEAKER - REF ELECTRICAL DWGS
- EXISTING "TENTED" LIGHT WELL IN EXISTING CEILING GRID.

PARTITION TERMINATION LEGEND

PARTITION WHICH PENETRATES THE CLG & TERMINATES 4" ABOV FINISHED CLG. UON

PARTITION WHICH CONTINUES THROUGH CLG TO BOTTOM OF ROOF DECK ABV (UNLESS NOTED OTHERWISE). AT GYP BD PARTITION PROVIDE BATT INSUL IN VOIDS IN DECK FOR SOUND TRANSMISSION BLOCKING OR CONT SEALANT. REF PARTITION TYPE LEGEND ON A-002 FOR ADDITIONAL INFORMATION.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFER TO FLOOR PLANS AND WALL SECTIONS FOR ADDITIONAL INFORMATION.

B. REFER TO ELECTRICAL LIGHTING PLANS FOR WALL MOUNTED AND UNDER-CABINET FIXTURES NOT INDICATED.

C. REFER TO MECH. AND ELEC DRAWINGS FOR CEILING-MOUNTED FIXTURE TYPES & DIFFUSER LOCATIONS. NOTIFY ARCHITECT (PRIOR TO INSTALLATION) OF CONFLICTS WITH LOCATIONS INDICATED ON DRAWINGS. ADDITIONAL FIXTURES OR OTHER CEILING MATERIALS SHOWN ON ELECTRICAL OR MECHANICAL DRAWINGS BUT NOT SHOWN ON RCP'S ARE INCLUDED IN THE BASE BID.

D. SUPPLY AND DIFFUSER GRILLES ARE INDICATED DIAGRAMATICALLY IN RCP FOR LOCATION ONLY. REFER TO MECHANICAL DWG'S FOR ACTUAL SIZE AND TYPE TO BE PROVIDED.

E. 24"x24" ACOUSTICAL CEILING PANELS (ACP) WILL BE THOUGHOUT.

F. ALL FIXTURES, DEVICES, SPRINKER HEADS (IF REQUIRED) AND MECHANICAL DIFFUSERS/GRILLES IN ACOUSTIC CEILINGS PANELS (ACP) SHOULD BE CENTERED WITHIN THE INDIVIDUAL TILES UNLESS NOTED OTHERWISE.

REFLECTED CEILING PLAN KEY NOTES

1. PAINTED GYP BD AND METAL STUD BULKHEAD W/ ACP EACH SIDE - REFERENCE DETAIL ***C4 / A-303***
2. EXISTING CEILING TO REMAIN. REPLACE STAINED OR DAMAGED CEILING TILES WITHIN EXISTING GRID.
3. EXISTING EXTERIOR SOFFIT TO REMAIN. PATCH AND REPAIR AROUND NEW LIGHT FIXTURES.
4. EXPOSED STRUCTURE ABOVE.
5. TOP OF WALL TO TERMINATE AT BOTTOM OF EXISTING DROP CEILING - REFER TO TOP OF WALL DETAIL "E" ON A-002.
6. EXTEND TOP OF EXISTING WALL AS REQUIRED TO BE 4" MIN. ABOVE THE FINISH CEILING. BRACE TO STRUCTURE ABOVE. REFER TO TOP OF WALL DETAIL "D" ON A-002.
7. WALLS TO EXTEND TO BOTTOM OF DECK ABOVE - REFER TO TOP OF WALL DETAILS "A" AND "B" A-002.
8. BRACE EXISTING WALL TO EXISTING STRUCTURE ABOVE. REFER TO TOP OF WALL DETAILS ON A-002.
9. EXISTING CEILING TO REMAIN

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
CHECKED	MW

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1/22/2025
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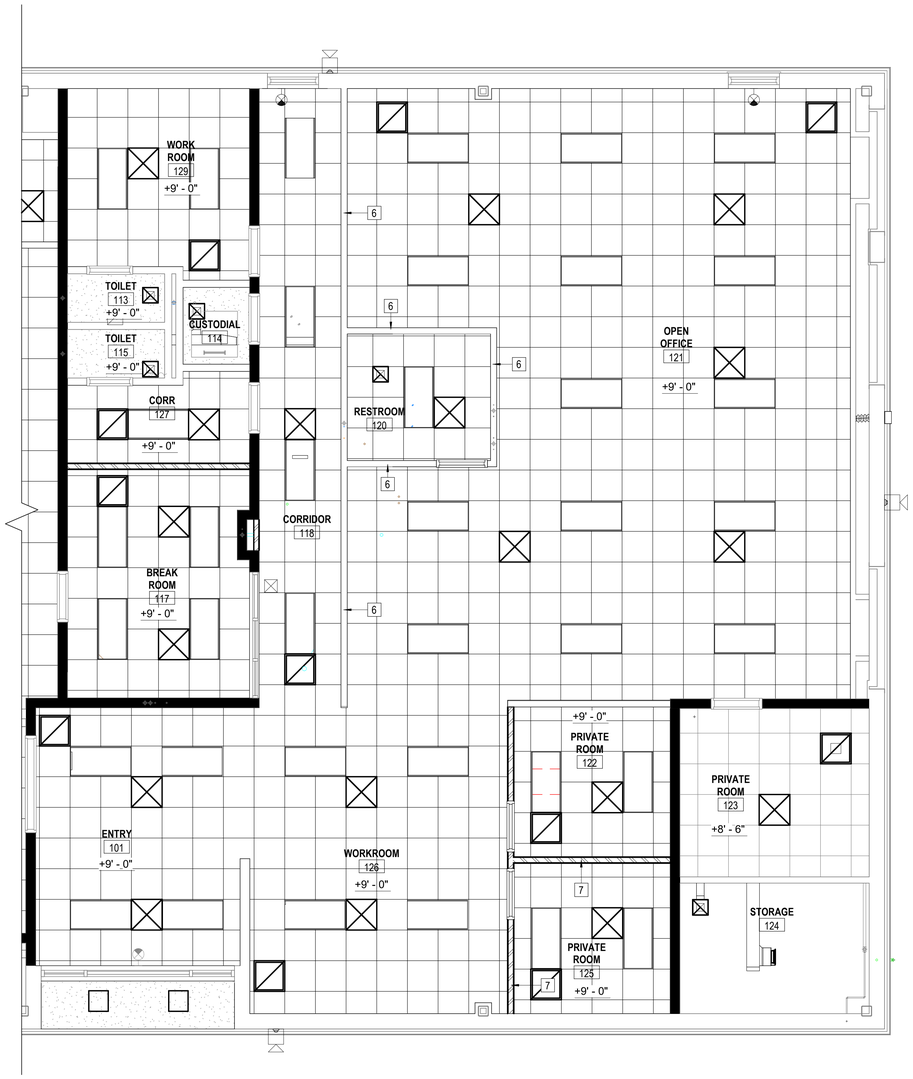
DRAWING
OVERALL REFLECTED CEILING PLAN

SHEET
A-102



OVERALL REFLECTED CEILING PLAN - ALT. 01

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

REFLECTED CEILING PLAN LEGEND

- GYPSUM BOARD CEILING OR BULKHEAD
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 2'-0" x 4'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- ACCOUSTICAL BATT INSULATION ON TOP OF DROP CEILING. KEEP INSULATION CLEAR OF ALL LIGHT FIXTURES
- EXIT LIGHT
- LIGHT FIXTURES
- DOWN LIGHT
- CEILING PROJECTOR MOUNT
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- +X'-X" CEILING HEIGHT
- W WIRELESS ACCESS DEVICE - REF ELECTRICAL DWGS
- OS OCCUPANCY SENSOR - REF ELECTRICAL DWGS
- S CEILING SPEAKER - REF ELECTRICAL DWGS
- EXISTING "TENTED" LIGHT WELL IN EXISTING CEILING GRID.

PARTITION TERMINATION LEGEND

PARTITION WHICH PENETRATES THE CLG & TERMINATES 4" ABOV FINISHED CLG. UON

PARTITION WHICH CONTINUES THROUGH CLG TO BOTTOM OF ROOF DECK ABV (UNLESS NOTED OTHERWISE). AT GYP BD PARTITION PROVIDE BATT INSUL IN VOIDS IN DECK FOR SOUND TRANSMISSION BLOCKING OR CONT SEALANT. REF PARTITION TYPE LEGEND ON A-002 FOR ADDITIONAL INFORMATION.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFER TO FLOOR PLANS AND WALL SECTIONS FOR ADDITIONAL INFORMATION.

B. REFER TO ELECTRICAL LIGHTING PLANS FOR WALL MOUNTED AND UNDER-CABINET FIXTURES NOT INDICATED.

C. REFER TO MECH. AND ELEC DRAWINGS FOR CEILING-MOUNTED FIXTURE TYPES & DIFFUSER LOCATIONS. NOTIFY ARCHITECT (PRIOR TO INSTALLATION) OF CONFLICTS WITH LOCATIONS INDICATED ON DRAWINGS. ADDITIONAL FIXTURES OR OTHER CEILING MATERIALS SHOWN ON ELECTRICAL OR MECHANICAL DRAWINGS BUT NOT SHOWN ON RCP'S ARE INCLUDED IN THE BASE BID.

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F. ALL FIXTURES, DEVICES, SPRINKER HEADS (IF REQUIRED) AND MECHANICAL DIFFUSERS/GRILLES IN ACOUSTIC CEILINGS PANELS (ACP) SHOULD BE CENTERED WITHIN THE INDIVIDUAL TILES UNLESS NOTED OTHERWISE.

REFLECTED CEILING PLAN KEY NOTES

1. PAINTED GYP BD AND METAL STUD BULKHEAD W/ ACP EACH SIDE - REFERENCE DETAIL ***C4 / A-303***
2. EXISTING CEILING TO REMAIN. REPLACE STAINED OR DAMAGED CEILING TILES WITHIN EXISTING GRID.
3. EXISTING EXTERIOR SOFFIT TO REMAIN. PATCH AND REPAIR AROUND NEW LIGHT FIXTURES.
4. EXPOSED STRUCTURE ABOVE.
5. TOP OF WALL TO TERMINATE AT BOTTOM OF EXISTING DROP CEILING - REFER TO TOP OF WALL DETAIL "E" ON A-002.
6. EXTEND TOP OF EXISTING WALL AS REQUIRED TO BE 4" MIN. ABOVE THE FINISH CEILING. BRACE TO STRUCTURE ABOVE. REFER TO TOP OF WALL DETAIL "D" ON A-002.
7. WALLS TO EXTEND TO BOTTOM OF DECK ABOVE - REFER TO TOP OF WALL DETAILS "A" AND "B" A-002.
8. BRACE EXISTING WALL TO EXISTING STRUCTURE ABOVE. REFER TO TOP OF WALL DETAILS ON A-002.
9. EXISTING CEILING TO REMAIN

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
CHECKED	MW

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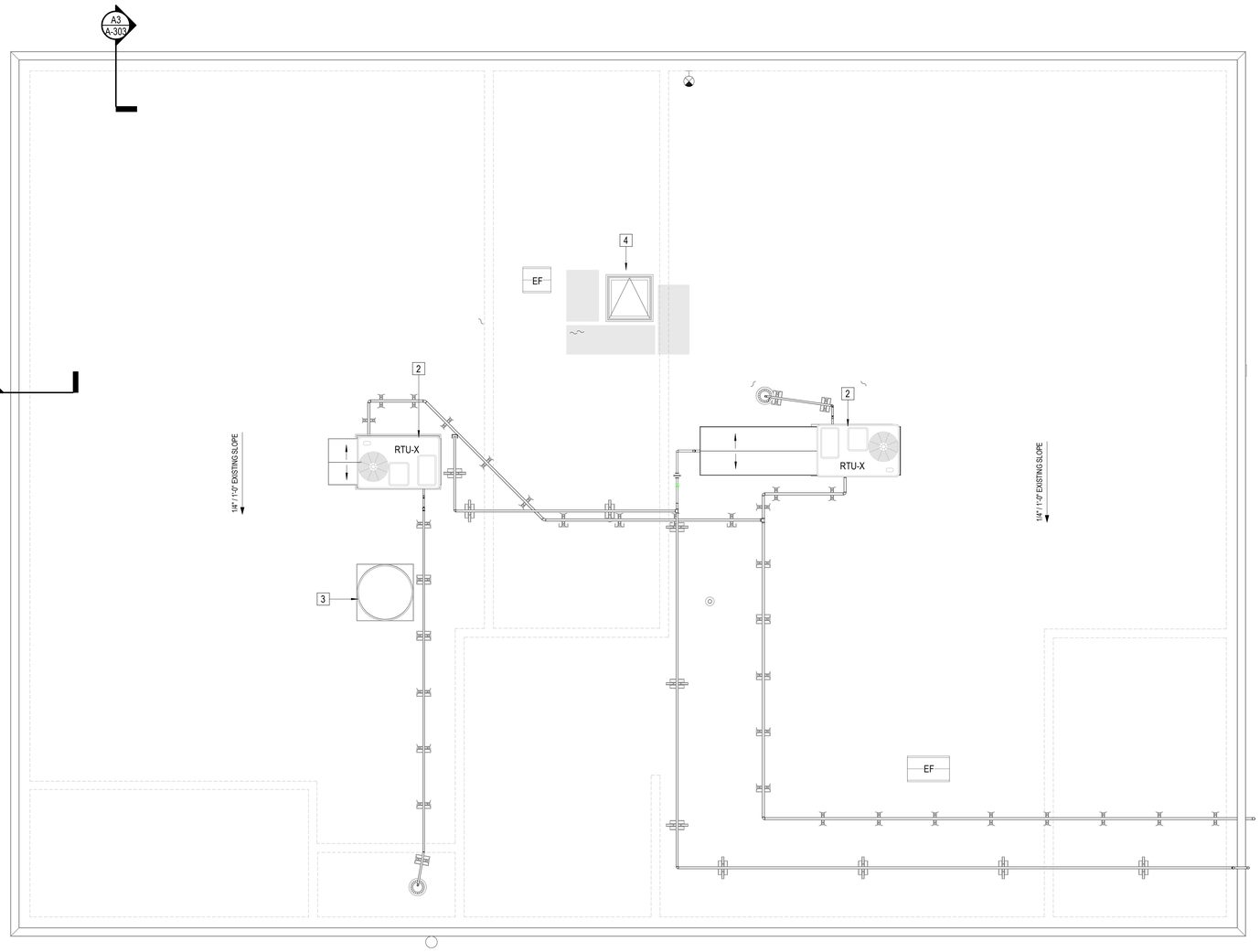
DRAWING
OVERALL REFLECTED CEILING PLAN ALT 01

SHEET
A-103



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

GENERAL NOTES

1. ROOF PLAN MAY NOT REFLECT ALL ROOF PENETRATIONS REQUIRED. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITINAL EQUIPMENT WHICH MAY NOT BE INDICATED ON ROOF PLAN. CONTRACTOR IS RESPONSIBLE FOR FLASHING OF ALL PENETRATIONS IN ALL ROOF AREAS.
2. NO ELEMENT OF THE EXISTING ROOF MEMBRANE SHALL BE MODIFIED WITHOUT THE PRIOR CONSENT OF THE OWNER AND ARCHITECT. ALL EXISTING ROOF MEMBRANE COMPONENTS TO REMAIN. ANY WORK ON OR SURROUNDING THE EXISTING ROOF MEMBRANE SHALL MAINTAIN THE OWNER'S EXISTING ROOF WARRANTY.

ROOF PLAN LEGEND

	ROOF DRAIN / OVERFLOW DRAIN - REF DTLS A1/A-123, A-124, & PLUMBING DWGS FOR ADDITIONAL INFO - COORD EXACT LOCATION W/ STRUCTURAL SUPPORT
DS	DOWNSPOUT
EF EF	EXHAUST FAN
VTR	PLUMBING VENT THROUGH ROOF (VTR)- REF DTLS ON A-XXX
	2'-0" X 2'-0" X 1/4" WALKWAY PADS AS SHOWN SPACED 6" APART TYPICAL
X : 12	SLOPED ROOF STRUCTURE AS INDICATED
RTU-X	ROOF TOP UNIT- REF. MECHANICAL DRAWINGS
.....	DASHED LINE INDICATES LOCATION OF WALL BELOW
RV	ROOF VENT- REF MECHANICAL DWGS AND CURB DTL

ROOF PLAN KEY NOTES

1. EXISTING ROOFTOP UNIT TO BE DEMOLISHED
2. EXISTING ROOFTOP UNIT TO REMAIN. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
3. EXISTING ROOFTOP STORAGE TANK TO REMAIN
4. EXISTING ROOF ACCESS HATCH
5. NEW EXHAUST FAN ON EXISTING ROOF CURB. REFER TO MECHANICAL DRAWINGS.
6. NEW RTU AND MECHANICAL CURB - REFER TO MECHANICAL DRAWINGS.
7. EXISTING PREFORMED METAL ROOF CAP.
8. NEW PREFORMED METAL ROOF CAP OVER EXISTING ROOF CURB.
9. ROOF PATCH. CONTACT MANUFACTURER OF EXISTING WARRANTED MEMBRANE ROOFING SYSTEM TO VERIFY ACCEPTANCE OF TIE-IN.

MARK	DATE	REVISIONS	BY

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
CHECKED	MW

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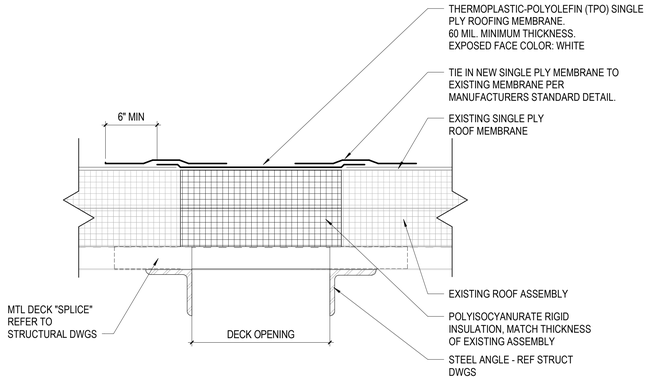
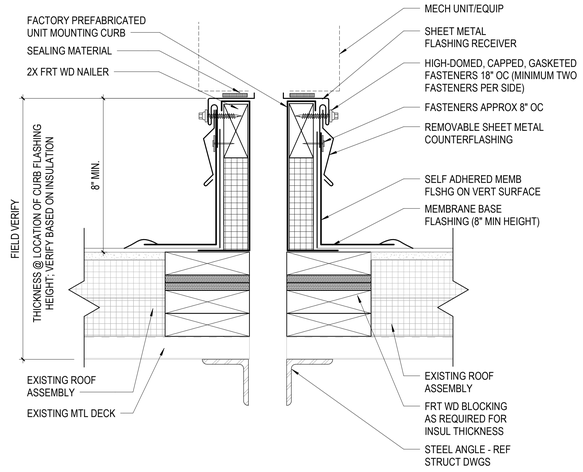
DRAWING
ROOF PLAN

SHEET
A-104



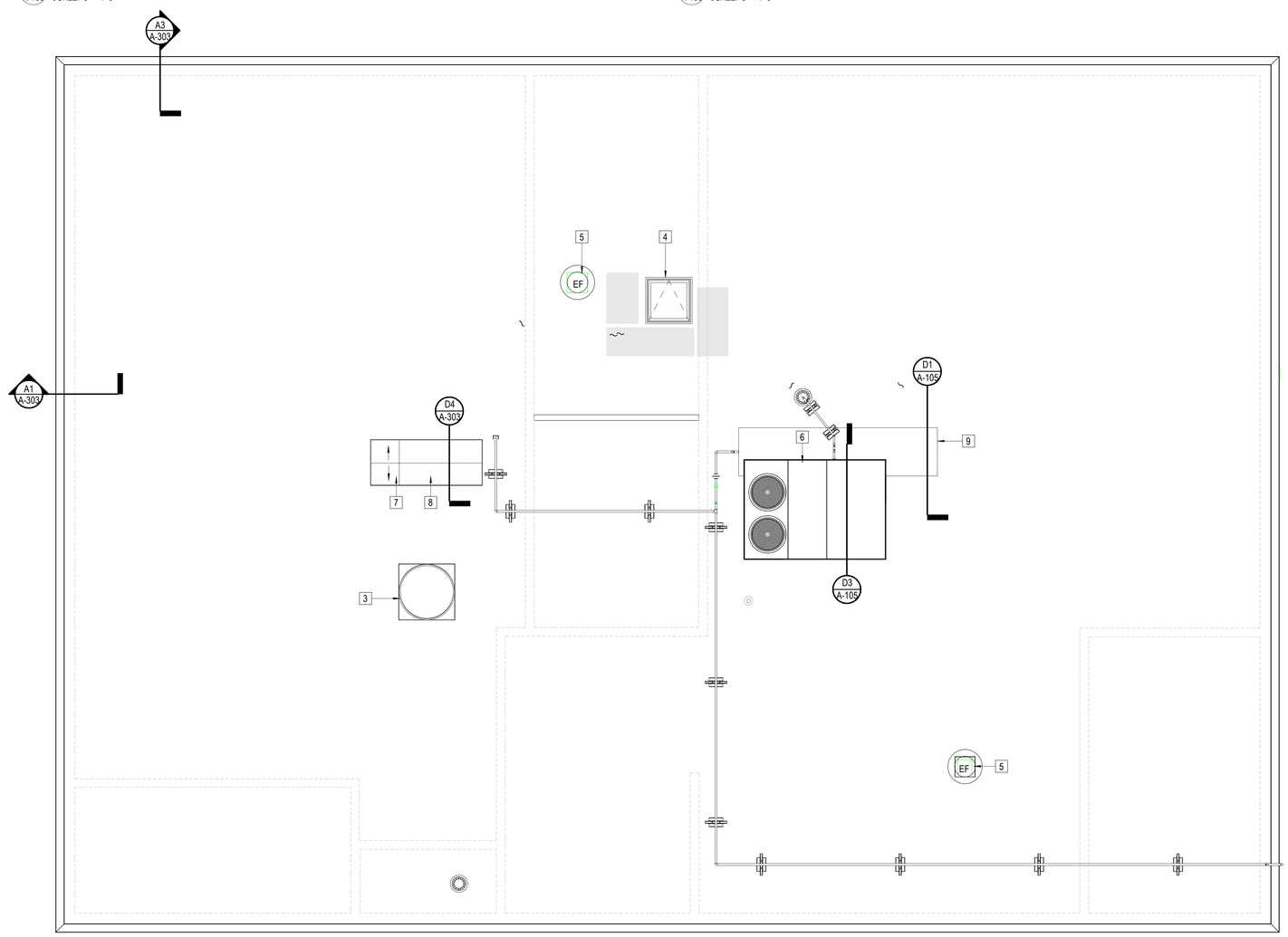
D1 ROOF SPLICE DETAIL

A-105 SCALE: 3" = 1'-0"



D3 ROOF CURB DETAIL

A-105 SCALE: 3" = 1'-0"



ROOF PLAN - ALT. 01

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

GENERAL NOTES

1. ROOF PLAN MAY NOT REFLECT ALL ROOF PENETRATIONS REQUIRED. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITINAL EQUIPMENT WHICH MAY NOT BE INDICATED ON ROOF PLAN. CONTRACTOR IS RESPONSIBLE FOR FLASHING OF ALL PENETRATIONS IN ALL ROOF AREAS.
2. NO ELEMENT OF THE EXISTING ROOF MEMBRANE SHALL BE MODIFIED WITHOUT THE PRIOR CONSENT OF THE OWNER AND ARCHITECT. ALL EXISTING ROOF MEMBRANE COMPONENTS TO REMAIN. ANY WORK ON OR SURROUNDING THE EXISTING ROOF MEMBRANE SHALL MAINTAIN THE OWNER'S EXISTING ROOF WARRANTY.

ROOF PLAN LEGEND

	ROOF DRAIN / OVERFLOW DRAIN - REF DTLS A1/A-123, A-124, & PLUMBING DWGS FOR ADDITIONAL INFO - COORD EXACT LOCATION W/ STRUCTURAL SUPPORT
DS	DOWNSPOUT
EF EF	EXHAUST FAN
VTR	PLUMBING VENT THROUGH ROOF (VTR)- REF DTLS ON A-XXX
	2'-0" X 2'-0" X 1/4" WALKWAY PADS AS SHOWN SPACED 6" APART TYPICAL
X : 12	SLOPED ROOF STRUCTURE AS INDICATED
RTU-X	ROOF TOP UNIT- REF. MECHANICAL DRAWINGS
	DASHED LINE INDICATES LOCATION OF WALL BELOW
RV	ROOF VENT- REF MECHANICAL DWGS AND CURB DTL

ROOF PLAN KEY NOTES

1. EXISTING ROOFTOP UNIT TO BE DEMOLISHED
2. EXISTING ROOFTOP UNIT TO REMAIN. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
3. EXISTING ROOFTOP STORAGE TANK TO REMAIN
4. EXISTING ROOF ACCESS HATCH
5. NEW EXHAUST FAN ON EXISTING ROOF CURB. REFER TO MECHANICAL DRAWINGS.
6. NEW RTU AND MECHANICAL CURB - REFER TO MECHANICAL DRAWINGS.
7. EXISTING PREFORMED METAL ROOF CAP.
8. NEW PREFORMED METAL ROOF CAP OVER EXISTING ROOF CURB.
9. ROOF PATCH. CONTACT MANUFACTURER OF EXISTING WARRANTED MEMBRANE ROOFING SYSTEM TO VERIFY ACCEPTANCE OF TIE-IN.

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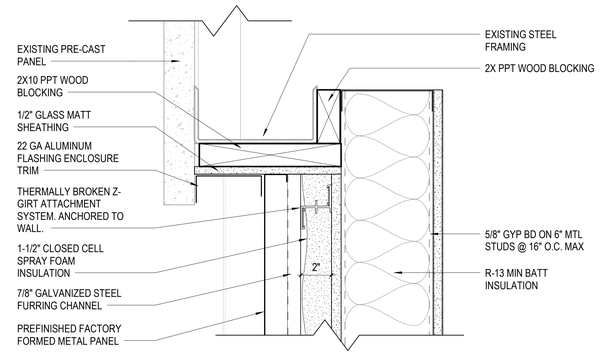
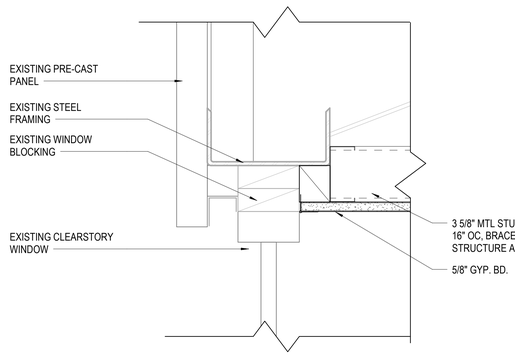
DRAWING
ROOF PLAN ALT 01

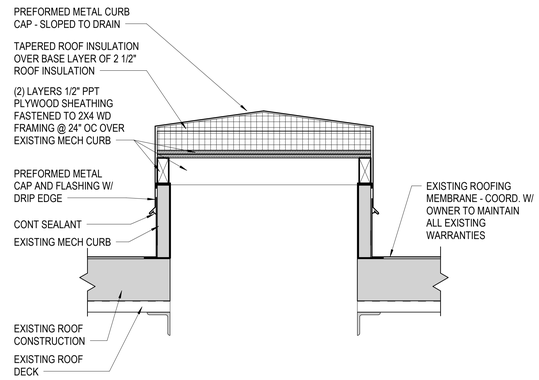
SHEET
A-105



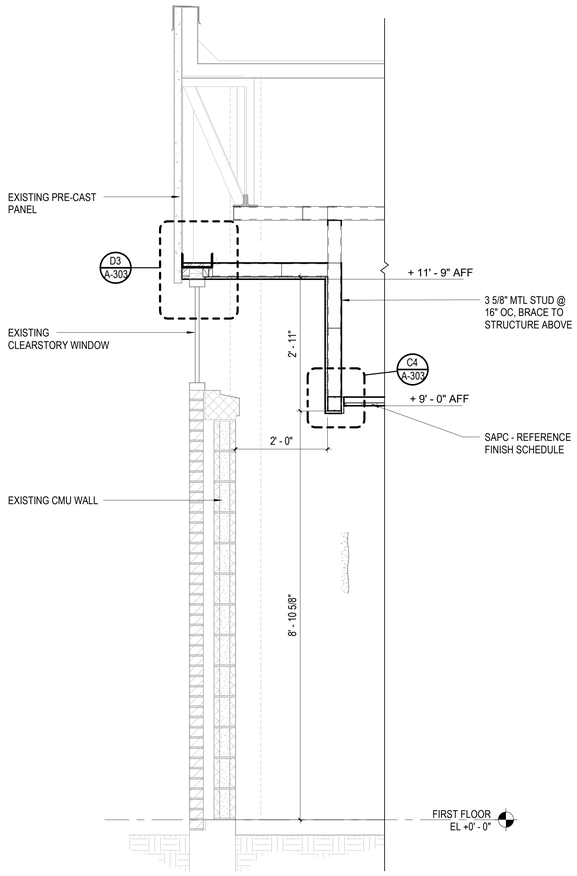
D1 A-303 TOP OF WALL DETAIL
SCALE: 3" = 1'-0"



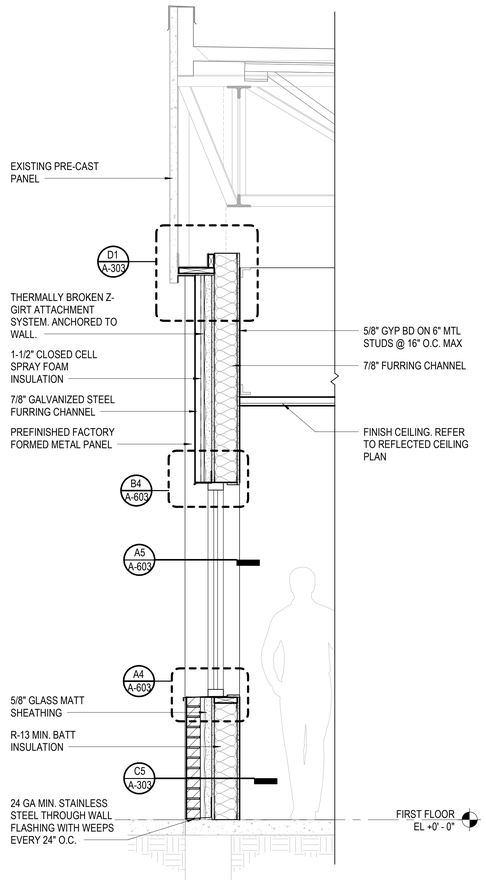
D3 A-303 CEILING AT TOP OF WINDOW
SCALE: 3" = 1'-0"



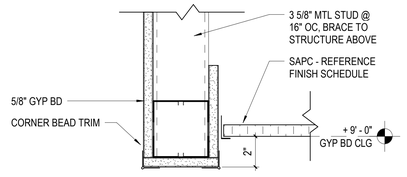
D4 A-303 ROOF CURB CAP DETAIL
SCALE: 1 1/2" = 1'-0"



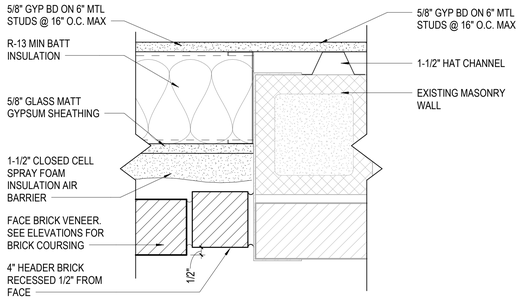
A1 A-303 WALLS SECTION AT LIGHT WELL
SCALE: 3/4" = 1'-0"



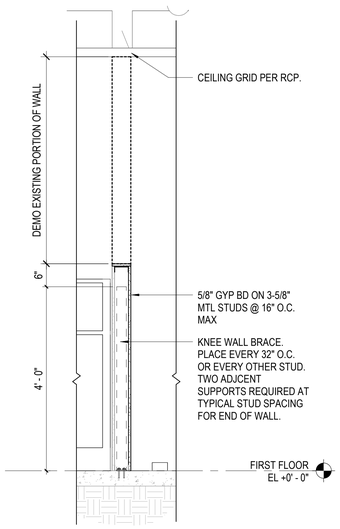
A3 A-303 WALL SECTION @ SECTIONAL DOOR INFILL
SCALE: 3/4" = 1'-0"



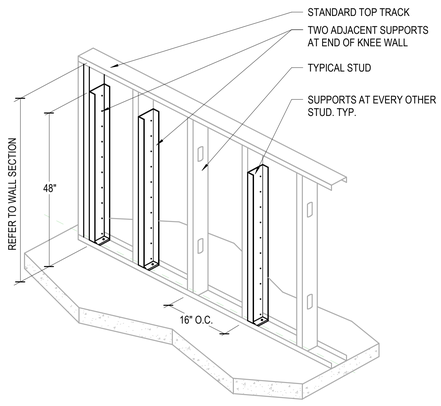
C4 A-303 CEILING DETAIL
SCALE: 3" = 1'-0"



C5 A-303 BRICK TRANSITION DETAIL
SCALE: 3" = 1'-0"



A4 A-303 WALL SECTION AT KNEE WALL
SCALE: 3/4" = 1'-0"



A5 A-303 KNEE WALL FRAMING DIAGRAM
SCALE: 3/4" = 1'-0"

MARK	DATE	REVISIONS	BY
		DESCRIPTION	

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
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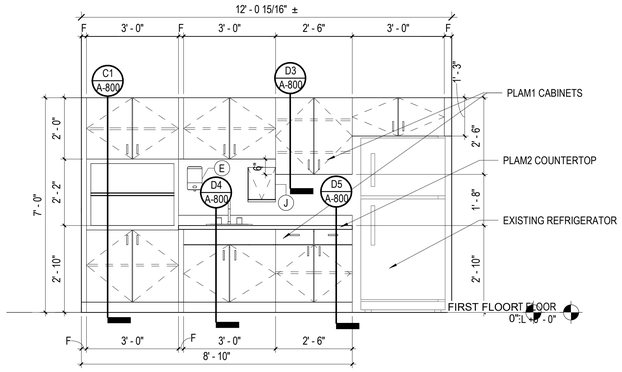
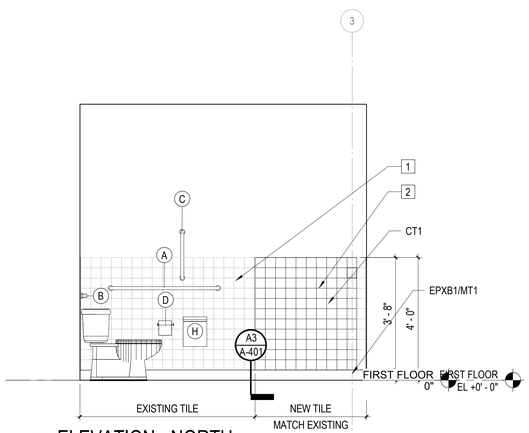
DRAWING
WALL SECTIONS AND MISC DETAILS

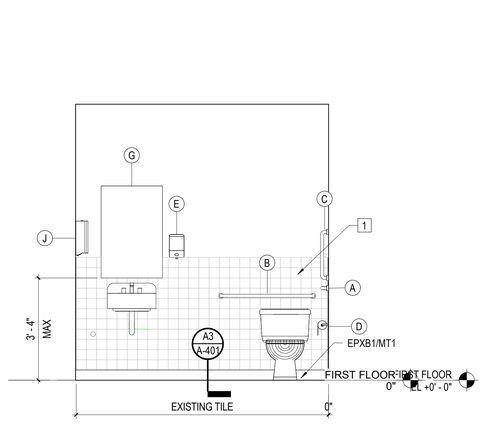
SHEET
A-303



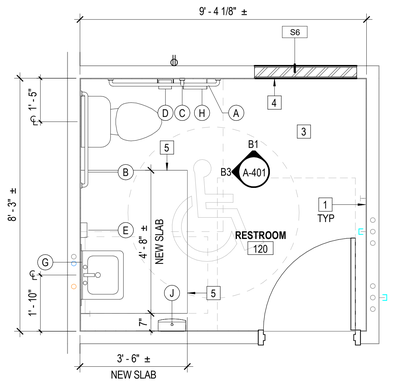
D1 A-401 **INTERIOR ELEVATION - BREAK ROOM**
SCALE: 1/2" = 1'-0"



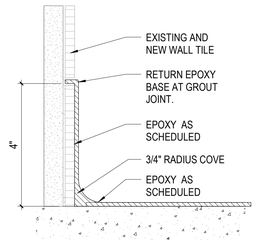
B1 A-401 **ELEVATION - NORTH**
SCALE: 1/2" = 1'-0"



B3 A-401 **ELEVATION - WEST**
SCALE: 1/2" = 1'-0"



A1 A-401 **TOILET PLAN**
SCALE: 1/2" = 1'-0"



A3 A-401 **EPOXY COVE BASE DETAIL**
SCALE: 6" = 1'-0"

RESTROOM ACCESSORY SCHEDULE

MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	42" GRAB BAR	CL @ 2'-9" AFF	REFER TO NOTES 2 & 4
B	36" GRAB BAR	CL @ 2'-9" AFF	NOTES 6, 7, 8
C	18" VERTICAL GRAB BAR	CL @ 3' -4" AFF	NOTES
D	TOILET TISSUE DISPENSER, DOUBLE ROLL	OUTLET @ 1'-8" AFF	SEE TOILET ACCESSORY SCHEDULE REMARKS - 1
E	SOAP DISPENSER	TOP @ 4'-0" AFF	REFER TO NOTE 1
G	MIRROR 24" X 36"	BOTTOM OF REFLECTIVE SURFACE@ 40" AFF	5
H	SANITARY NAPKIN DISPOSAL	TOP @ 2'-0" AFF	
J	PAPER TOWEL DISPENSER		N.I.C.

GENERAL NOTES

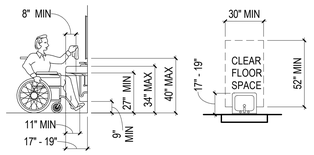
1. TOILET ACCESSORY ITEMS ARE IDENTIFIED BY SYMBOL (X) ON PLANS, LETTERS CORRESPOND TO SCHEDULE ABOVE.
2. REFER TO CASEWORK SHEET (THIS SHEET) FOR ADDITIONAL TOILET ACCESSORIES REQUIRED AS PART OF WORK.
3. GRAB BARS AND ACCESSORIES TO BE MOUNTED IN ACCORDANCE WITH ANSI, 2003.
4. REFER TO SPEC SECTION 10801 FOR ALL ACCESSORY DESCRIPTIONS.
5. ACTUAL DIMENSIONS MAY VERY WITH APPROVED MANUFACTURER. COORDINATE ALL REVISIONS AS REQUIRED.

PLAN NOTES

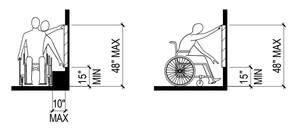
1. PAPER TOWEL, TOILET TISSUE AND SOAP DISPENSERS SHALL BE PROVIDED BY OWNER'S PRODUCT SUPPLIER AND INSTALLED BY THE CONTRACTOR.
2. MOUNT GRAB BAR ON WALL OR TOILET PARTITION AS INDICATED, 12" CLEAR OF WALL WHICH RUNS BEHIND WATER CLOSET.
3. MOUNT GRAB BAR CLEAR OF TANK/FLUSH VALVE. HEIGHT MY NEED TO BE DIFFERENT THAN INDICATED IN SCHEDULE. COORDINATE WITH PLUMBING FIXTURE PROVIDED. MOUNT 6" FROM FACE OF CONTIGUOUS WALL.
4. FIELD VERIFY FINISH WALL DEMINSION BEFORE INSTALLING GRAB BAR AND RELATED WALL SUPPORTS.
5. MOUNT BOTTOM OF VERTICAL GRAB BAR 3" ABOVE HORIZONTAL GRAB BAR.

KEY NOTES (APPLIES TO SHEETS A-401)

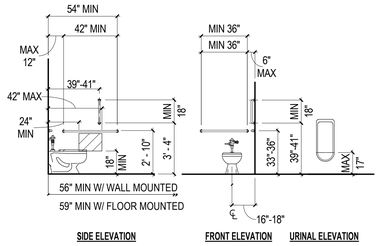
1. EXISTING TILE TO BE PAINTED. PATCH/REPAIR WITH SAME SIZE TILE AS REQUIRED DUE TO DEMO WORK. REFER TO FINISH SCHEDULE FOR PAINT.
2. NEW TILE. MATCH TILE SIZE OF ADJACENT EXISTING TILE. PAINT SAME COLOR AS EXISTING TILE. REFER TO FINISH SCHEDULE.
3. EXISTING FLOOR TILE TO REMAIN. PATCH/REPAIR AS NEEDED TO RECEIVE NEW FLOOR FINISH. REFER TO FINISH SCHEDULE
4. MOLD RESISTANT GYPSUM BOARD FOR ALL PATCHES/REPAIRS MADE ON THE RESTROOM SIDE OF WALLS. PLACE TILE BACKING PANELS WHERE REQUIRED BY SPEC SECTION 093013.
5. SPLICE NEW SLAB TO EXISTING SLAB PER "TYPICAL REMOVAL AND REPOAIR OF EXISTING SLAB ON GRADE DETAIL" ON SHEET S-001.



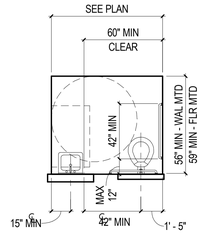
LAVATORY CLEARANCES



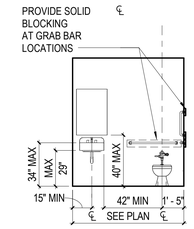
REACH GUIDELINES



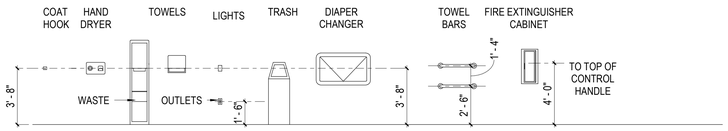
WATER CLOSET & TOILET ACCESSORIES



TYPICAL PLAN



TYPICAL ELEVATION



MISCELLANEOUS FIXTURES AND ACCESSORIES

DESCRIPTION	
BY	
MARK DATE	REVISIONS

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
CHECKED	MW

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DRAWING
ENLARGED PLANS AND INTERIOR ELEVATIONS

SHEET
A-401

1/22/2025 12:53:18 PM Autodesk Docs://21222-21 SPS Pruden Daycare/21222-21 v24 SPS Pruden Daycare - ARCH.rvt

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	WALL BASE	WALLS				CEILING	NOTES
				N	S	E	W		
101	ENTRY	RT1,2	RB1	PT1	PT1	PT1	PT1	EXIST	3
102	OPEN OFFICE	RT1,2,3	RB1	PT1,4	PT1	PT1,2,4	PT1	SAPC1	
103	STORAGE	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	
104	OFFICE	RT1	RB1	PT1	PT2	PT1	PT1	EXIST/PT5	
105	STORAGE	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	
106	STORAGE	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	
107	OFFICE	RT1	RB1	PT1	PT1	PT1	PT2	SAPC1	
108	OFFICE	RT1	RB1	PT1	PT1	PT1	PT2	SAPC1	
109	DIRECTOR'S OFFICE	RT1	RB1	PT1	PT1	PT1	PT2	SAPC1	
110	OFFICE	RT1	RB1	PT2	PT1	PT1	PT1	SAPC1	
112	LOCKERS	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	1.3.6
113	TOILET	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	1
114	CUSTODIAL	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST	1
115	TOILET	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST	1
116	LOCKERS	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	1.3.6
117	BREAK ROOM	RT1,2,3	RB1	PT1	PT4	PT1	PT1	SAPC1	3.4.7
118	CORRIDOR	RT1,2,3	RB1	PT1	PT1	PT1	PT1,2	EXIST/ACT1	3.4
120	RESTROOM	EPX1	EXIST/EPXB1/MT1	EXIST/CT1/PT1	EXIST/PT1	EXIST/PT1	EXIST/PT1	EXIST/ACT1	1.2.3.4.5
121	OPEN OFFICE	RT1,2,3	RB1	PT1,2	PT1,2	PT1,2	PT1	EXIST/ACT1	3.4
122	PRIVATE ROOM	RT1	RB1	PT1	PT1	PT2	PT1	EXIST/ACT1	3.4
123	PRIVATE ROOM	RT1	RB1	PT1	PT1	PT2	PT1	EXIST/ACT1	3.4
124	STORAGE	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST	
125	PRIVATE ROOM	RT1	RB1	PT1	PT1	PT2	PT1	EXIST/ACT1	3.4
126	WORKROOM	RT1,2,3	RB1	PT1	PT3	PT1	PT1	EXIST/ACT1	4

FINISH SCHEDULE BID ALTERNATE 01

ROOM NUMBER	ROOM NAME	FLOOR	WALL BASE	WALLS				CEILING	NOTES
				N	S	E	W		
128	BREAK ROOM								
101	ENTRY	RT1,2	RB1	PT1	PT1	PT1	PT1	EXIST	3
102	OPEN OFFICE	RT1,2,3	RB1	PT1,4	PT1	PT1,2,4	PT1	SAPC1	
103	STORAGE	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	
104	OFFICE	RT1	RB1	PT1	PT2	PT1	PT1	EXIST/PT5	
105	STORAGE	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	
106	STORAGE	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	
107	OFFICE	RT1	RB1	PT1	PT1	PT1	PT2	SAPC1	
108	OFFICE	RT1	RB1	PT1	PT1	PT1	PT2	SAPC1	
109	DIRECTOR'S OFFICE	RT1	RB1	PT1	PT1	PT1	PT2	SAPC1	
110	OFFICE	RT1	RB1	PT2	PT1	PT1	PT1	SAPC1	
113	TOILET	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST/PT5	1
114	CUSTODIAL	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST	1
115	TOILET	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST	1
117	BREAK ROOM	RT1,2,3	RB1	PT1	PT4	PT1	PT1	SAPC1	3.4.7
118	CORRIDOR	RT1,2,3	RB1	PT1	PT1	PT1	PT1,2	EXIST/ACT1	3.4
120	RESTROOM	EPX1	EXIST/EPXB1/MT1	EXIST/CT1/PT1	EXIST/PT1	EXIST/PT1	EXIST/PT1	EXIST/ACT1	1.2.3.4.5
121	OPEN OFFICE	RT1,2,3	RB1	PT1,2	PT1,2	PT1,2	PT1	EXIST/ACT1	3.4
122	PRIVATE ROOM	RT1	RB1	PT1	PT1	PT2	PT1	EXIST/ACT1	3.4
123	PRIVATE ROOM	RT1	RB1	PT1	PT1	PT2	PT1	EXIST/ACT1	3.4
124	STORAGE	EXIST	EXIST	PT1	PT1	PT1	PT1	EXIST	
125	PRIVATE ROOM	RT1	RB1	PT1	PT1	PT2	PT1	EXIST/ACT1	3.4
126	WORKROOM	RT1,2,3	RB1	PT1	PT3	PT1	PT1	EXIST/ACT1	4
127	CORR	RT1	RB1	PT1	PT1	PT1	PT1	SAPC1	6.7
129	WORK ROOM	RT1	RB1	PT1	PT1	PT1	PT1	SAPC1	6.7

FINISH SCHEDULE NOTES

1. PROVIDE EPOXY PAINT THIS ROOM
2. PROVIDE METAL TRIM AT TOP OF INTEGRAL COVE BASE. REFER TO DETAIL ***A3 / A-401*** FOR TYPICAL COVE BASE.
3. PROVIDE NEW CEILING AS INDICATED ON ***AD-103*** IF BID ALTERNATE 01 IS ACCEPTED.
4. REPLACE DAMAGED OR STAINED CEILING TILES AS NEEDED WITH ACT1.
5. REFER TO ENLARGED PLAN AND ELEVATIONS ON ***A-401*** FOR EXTENTS OF NEW WORK.
6. PROVIDE RT1 AS NEW FLOORING AS INDICATED ON ***AD-101*** IF BID ALTENRATE 01 IS ACCEPTED.
7. REFER TO BID ALTERNATE FLOOR PATTERN FLOOR PLAN AS INDICATED ON ***A-605*** IF BID ALTERNATE 01 IS ACCEPTED.

FINISH SCHEDULE NOTES BID ALTERNATE 01

1. PROVIDE EPOXY PAINT THIS ROOM
2. PROVIDE METAL TRIM AT TOP OF INTEGRAL COVE BASE. REFER TO DETAIL ***A3 / A-401*** FOR TYPICAL COVE BASE.
3. PROVIDE NEW CEILING AS INDICATED ON ***AD-103***
4. REPLACE DAMAGED OR STAINED CEILING TILES AS NEEDED WITH ACT1.
5. REFER TO ENLARGED PLAN AND ELEVATIONS ON ***A-401*** FOR EXTENTS OF NEW WORK.
6. PROVIDE RT1 AS NEW FLOORING AS INDICATED ON ***AD-101***
7. REFER TO BID ALTERNATE FLOOR PATTERN FLOOR PLAN AS INDICATED ON ***A-605***

GENERAL FINISH NOTES

A. THE FINISH SCHEDULE INDICATES ONLY THE BASIC OR PREDOMINANT SURFACE FINISHES OF EACH SPACE. REFER TO KEYNOTES, DETAILS, ELEVATIONS, RCP'S AND FINISH PLANS FOR THE FULL RANGE AND EXTENT OF FINISHES REQUIRED TO COMPLETE THE WORK FOR EACH SPACE.

B. CONTRACTOR TO CHECK AND COORDINATE LEAD TIMES AND REQUIREMENTS FOR FINISHES REQUIRED TO COMPLETE THE WORK FOR EACH SPACE.

C. PAINT GWB WALLS IN EGGSHELL FINISH AND ALL DOOR FRAMES AND MISCELLANEOUS TRIM IN SEMI-GLOSS FINISH, U.O.N.

D. PAINT CMU WALLS IN SEMI-GLOSS FINISH, U.O.N.

E. PROVIDE EPOXY GROUT FOR WALL TILE INSTALLATIONS.

G. ALL HOLLOW METAL DOORS AND DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL.

G. PAINT ALL GWB SOFFITS AND BULKHEADS PT5, U.O.N.

H. FINISH SCHEDULE REFERS TO PLAN NORTH

FINISH LEGEND

SYMBOL	PRODUCT	MANUFACTURER	PRODUCT # / STYLE	COLOR	NOTES
FLOOR					
EPX1	EPOXY	SHERWIN WILLIAMS	HYRBRI-FLEX EC	BLUE SHADOW (BLUE MULTI-COLORED)	1/8" CHIP SIZE; WITH INTEGRAL COVE BASE
RT1	RUBBER TILE	NORA	GRANO	5305 AGAR (LIGHT GRAY)	39.53" x 39.53" TILES
RT2	RUBBER TILE	NORA	SATURA	5329 BERGAMOT (YELLOW)	39.53" x 39.53" TILES
RT3	RUBBER TILE	NORA	SATURA	5319 SPIKENARD (BLUE)	39.53" x 39.53" TILES
BASE					
EPXB1	EPOXY BASE	SHERWIN WILLIAMS	HYRBRI-FLEX EC	BLUE SHADOW (BLUE MULTI-COLORED)	4" INTEGRAL COVE BASE
RB1	RESILIENT BASE	JOHNSONITE	COLOR MATCH SERIES	MEDIUM GREY (GRAY)	4" COVE BASE INSTALL WITH RESILIENT FLOORING
WALLS					
CT1	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	ARCHITECTURAL GRAY (GRAY)	4" x 4" TILE; GLOSSY FINISH
PT1	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW9166 DRIFT OF MIST (LIGHT GRAY)	FIELD
PT2	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW9165 GOSSAMER VEIL (GRAY)	ACCENT
PT3	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW7682 BEE'S WAX (YELLOW)	ACCENT
PT4	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW6508 SECURE BLUE (DARK BLUE)	ACCENT
CEILINGS					
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	2878 CALLA	WHITE	BID ALTERNATE, 30 x 60" TILE, 15/16" GRID
PT5	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW7007 CEILING BRIGHT WHITE (WHITE)	CEILING PAINT
SAPC1	SUSPENDED ACOUSTIC PANEL CEILINGS	ARMSTRONG	2820 CALLA	WHITE	BID ALTERNATE, 24 x 24" TILE, 15/16" GRID
MISCELLANEOUS					
MT1	METAL TRIM	SCHLUTER	JOLLY PROFILE	STAINLESS STEEL ANODIZED ALUMINUM	90 DEGREE CORNER USE WIT EPXB1
PLAM1	PLASTIC LAMINATE	FORMICA	--	ASHWOOD OAK (WOOD GRAIN)	FINE VELVET FINISH; RUN VERTICALLY; CABINET FINISH
PLAM2	PLASTIC LAMINATE	WILSONART	--	CRISP LINEN (WHITE TEXTURED)	COUNTERTOP MATERIAL
PVC1	PVC EDGE	FORMICA	--	ASHWOOD OAK (WOOD GRAIN)	3mm THICKNESS
PVC2	PVC EDGE	ARBORITE	--	CRISP LINEN (WHITE TEXTURED)	3mm THICKNESS

MARK	DATE	REVISIONS DESCRIPTION	BY

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	RRMM
DRAWN	RRMM
CHECKED	RRMM

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COMMONWEALTH OF VIRGINIA
JEFFREY A HARRIS
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1/22/2025
ARCHITECT

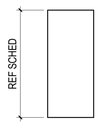
PROJECT
SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING
FINISH SCHEDULE AND LEGEND

SHEET
A-601

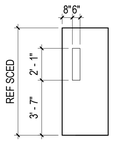
DOOR SCHEDULE

DOOR						FRAME							
			SIZE					DETAILS			RATING		
NUMBER	TYPE	MAT'L	WIDTH	HEIGHT	THICKNESS	TYPE	MAT	HEAD	JAMB	SILL	(MIN)	HDWR SET	NOTES
101A	ETR	ETR	PR 3'-4"	6' - 10 3/4"	1 3/4"	ETR	ETR	--	--	--	--	ETR	EXTERIOR DOOR
102A	ETR	ETR	PR 3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
102B	ETR	ETR	3'-4"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	EXTERIOR DOOR
103A	ETR	ETR	3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	TS2	--	ETR	
104A	ETR	ETR	3'-0"	6' - 8"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
105A	A	NOTE 1	3'-0"	7' - 0"	1 3/4"	HM1	NOTE 3	B1/A-603	A1/A-603	TS2	--	1.0	
105C	A	NOTE 1	3'-0"	7' - 0"	1 3/4"	HM1	NOTE 3	B1/A-603	A1/A-603	TS1	--	3.0	
105E	ETR	ETR	3'-0"	6' - 8"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
107A	A	NOTE 1	3'-0"	7' - 0"	1 3/4"	HM1	NOTE 3	B1/A-603	A1/A-603	--	--	2.0	
108A	A	NOTE 1	3'-0"	7' - 0"	1 3/4"	HM1	NOTE 3	B1/A-603	A1/A-603	--	--	2.0	
109A	A	NOTE 1	3'-0"	7' - 0"	1 3/4"	HM1	NOTE 3	B1/A-603	A1/A-603	--	--	2.0	
110A	A	NOTE 1	3'-0"	7' - 0"	1 3/4"	HM1	NOTE 3	B1/A-603	A1/A-603	--	--	2.0	
112A	ETR	ETR	3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	TS2	--	ETR	
113A	ETR	ETR	2'-8"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
114A	ETR	ETR	3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	TS2	--	ETR	
115A	ETR	ETR	2'-8"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
116A	ETR	ETR	3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	TS2	--	ETR	
117A	ETR	ETR	3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
117B	ETR	ETR	2'-10"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
118A	ETR	ETR	3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	EXTERIOR DOOR
121A	ETR	ETR	3'-0"	6' - 8"	1 3/4"	ETR	ETR	--	--	--	--	ETR	EXTERIOR DOOR
121B	ETR	ETR	3'-0"	6' - 8"	1 3/4"	ETR	ETR	--	--	--	--	ETR	EXTERIOR DOOR
121C	ETR	ETR	3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	EXTERIOR DOOR
121D	ETR	ETR	3'-0"	6' - 8"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
122A	A	NOTE 1	3'-0"	7' - 0"	1 3/4"	HM1	NOTE 3	B1/A-603	A1/A-603	--	--	2.0	
123A	ETR	ETR	3'-0"	7' - 0"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
124A	ETR	ETR	3'-0"	6' - 8"	1 3/4"	ETR	ETR	--	--	--	--	ETR	
125A	A	NOTE 1	3'-0"	7' - 0"	1 3/4"	HM1	NOTE 3	B1/A-603	A1/A-603	--	--	2.0	



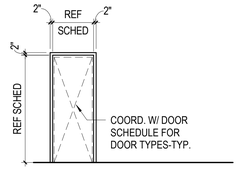
A

FLAT PANEL SOLID CORE WOOD DOOR



B

COORDINATE WITH FLOOR PLAN & DOOR SCHEDULE FOR DOOR & FRAME FIRE RATINGS



HM-1

HOLLOW METAL SINGLE DOOR OR PAIR OF DOORS

TYPICAL DOOR TYPES

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

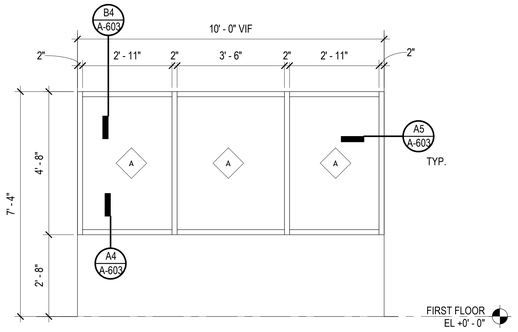
TYPICAL DOOR FRAME TYPES

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

TYPICAL TRANSITION STRIP DETAILS				
NOTE: MANUFACTURER'S LISTED ARE BASIS OF DESIGN ONLY.				
#	**MAT**	**MANUF/ PRODUCT**	**DETAIL**	**NOTES**
TS1	STAINLESS STEEL	SCHLÜTER **SCHIENE-E** (OR EQ)	EPX, TS1, RT; EPOXY → RUBBER TILE	
TS2	ANODIZED ALUMINUM	SCHLÜTER **SLT-28-J**(OR EQ)	RT, TS2, EXIST; RUBBER TILE → EXISTING	

TRANSITION STRIP DETAILS

SCALE: 12" = 1'-0"



SF-01

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

DOOR AND FRAME GENERAL NOTES

A. FIELD VERIFY FINISHED OPENING DIMENSIONS FOR FLUSH FRAMES PRIOR TO FABRICATION.

B. PROVIDE SEALANT AT BOTH SIDES OF ALL FRAMES ABUTTING WALLS

C. DIMENSIONS INDICATED TYPICALLY REPRESENT NOMINAL OPENING SIZE INCLUSIVE OF JOINTS AND SEALANT JOINT WIDTHS. FIELD VERIFY ALL OPENING SIZES PRIOR TO FABRICATION.

D. "ETR" STANDS FOR EXISTING TO REMAIN.

E. ONLY DOORS LABELED WITH DOOR TAGS IN THE FLOOR PLANS ARE LISTED IN THE DOOR SCHEDULE. ALL OTHER DOORS NOT LISTED ARE NOT INCLUDED IN THIS SCOPE OF WORK.

F. REFER TO SPECIFICATIONS ECTION 087100 FOR DOOR HARDWARE GROUP(S)

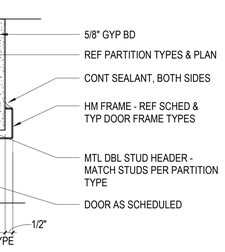
DOOR SCHEDULE NOTES

ETR = EXISTING TO REMAIN

1. STAIN DOOR TO MATCH EXISTING DOORS
2. EXISTING DOOR PANEL TO BE DEMOLISHED. EXISTING DOOR FRAME TO REMAIN.
3. PAINT FRAME TO MATCH ADJACENT WALL COLOR.

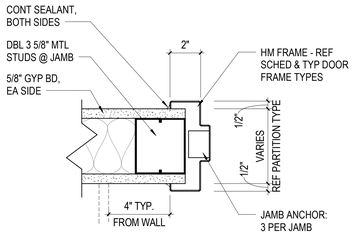
STOREFRONT GENERAL NOTES

1. REFER TO "INSULATING GLASS SCHEDULE" IN SPECIFICATION SECTION 088000 FOR GLAZING TYPE INFORMATION.
2. ALL FRAMES TO BE PAINTED (HIGH-PERFORMANCE ORGANIC FINISH) TO MATCH EXISTING STEEL CHANNEL JAMB AND ROLL-UP DOOR. SUBMIT COLOR SAMPLE TO ARCHITECT FOR VERIFICATION.



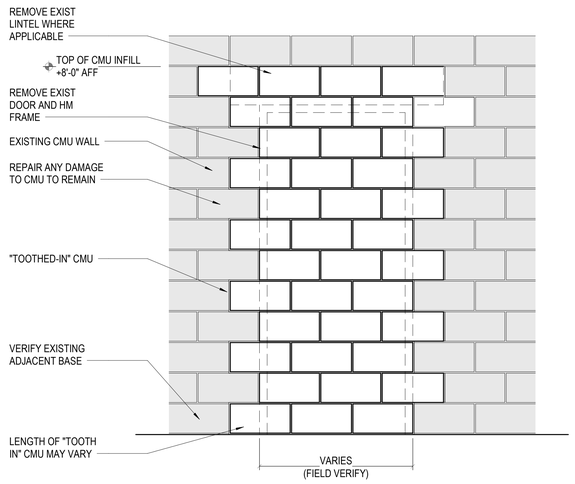
B1 / A-603 TYP. HEAD

SCALE: 3" = 1'-0"



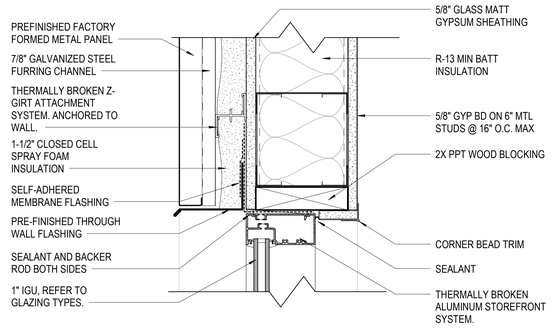
A1 / A-603 TYP JAMB

SCALE: 3" = 1'-0"



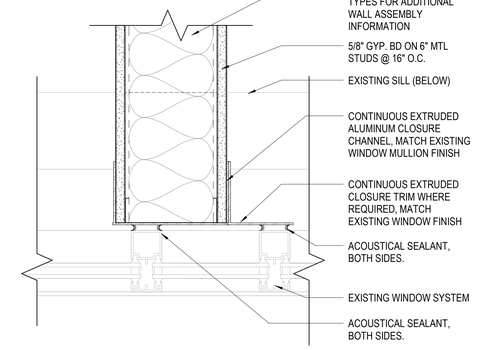
A2 / A-603 TYPICAL CMU DOOR INFILL

SCALE: 3/4" = 1'-0"



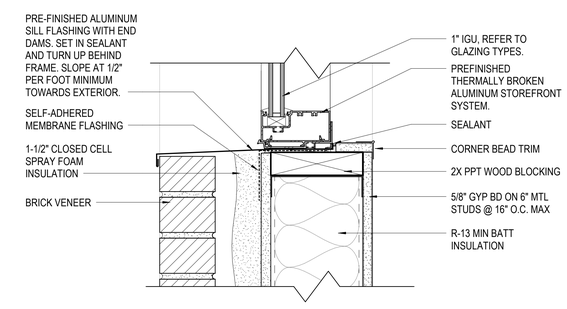
B4 / A-603 HEAD DETAIL

SCALE: 3" = 1'-0"



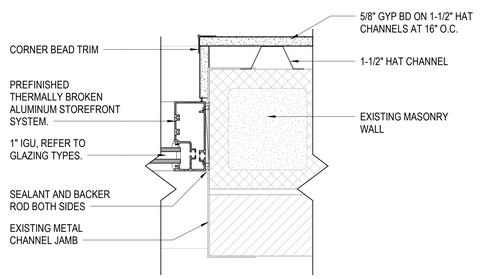
B5 / A-603 PLAN DETAIL - WALL AT EXISTING CLEARSTORY

SCALE: 3" = 1'-0"



A4 / A-603 SILL DETAIL

SCALE: 3" = 1'-0"



A5 / A-603 JAMB DETAIL

SCALE: 3" = 1'-0"

MARK	DATE	REVISIONS	BY
		DESCRIPTION	

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	MW
DRAWN	TB
CHECKED	MW

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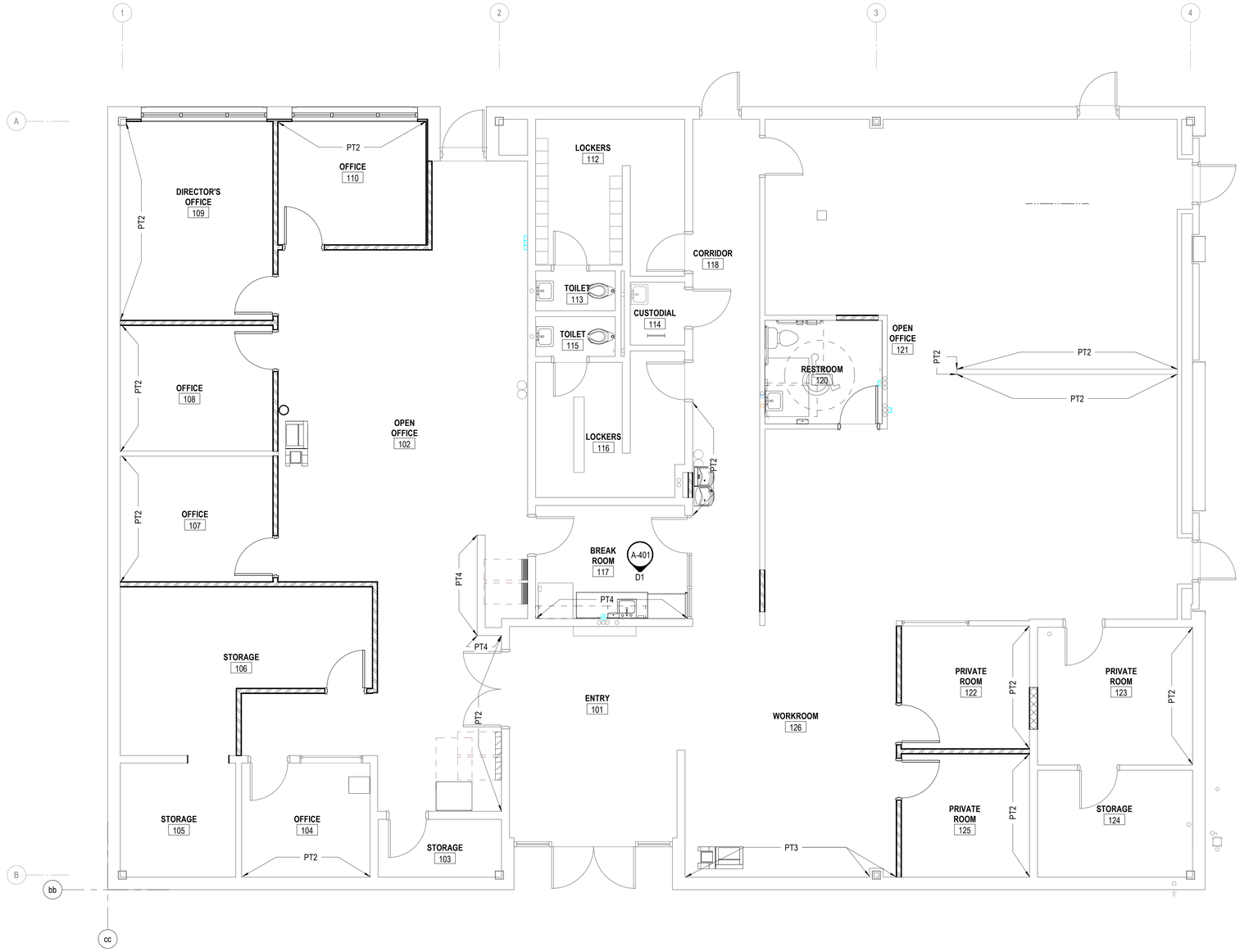
DRAWING DOOR SCHEDULE & STOREFRONT

SHEET

A-603

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"



FIRST FLOOR - FINISH FLOOR PLAN

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

MARK	DATE	REVISIONS	BY
		DESCRIPTION	

DATE	1/09/2025
PROJECT	21222-21
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CHECKED	RRMM

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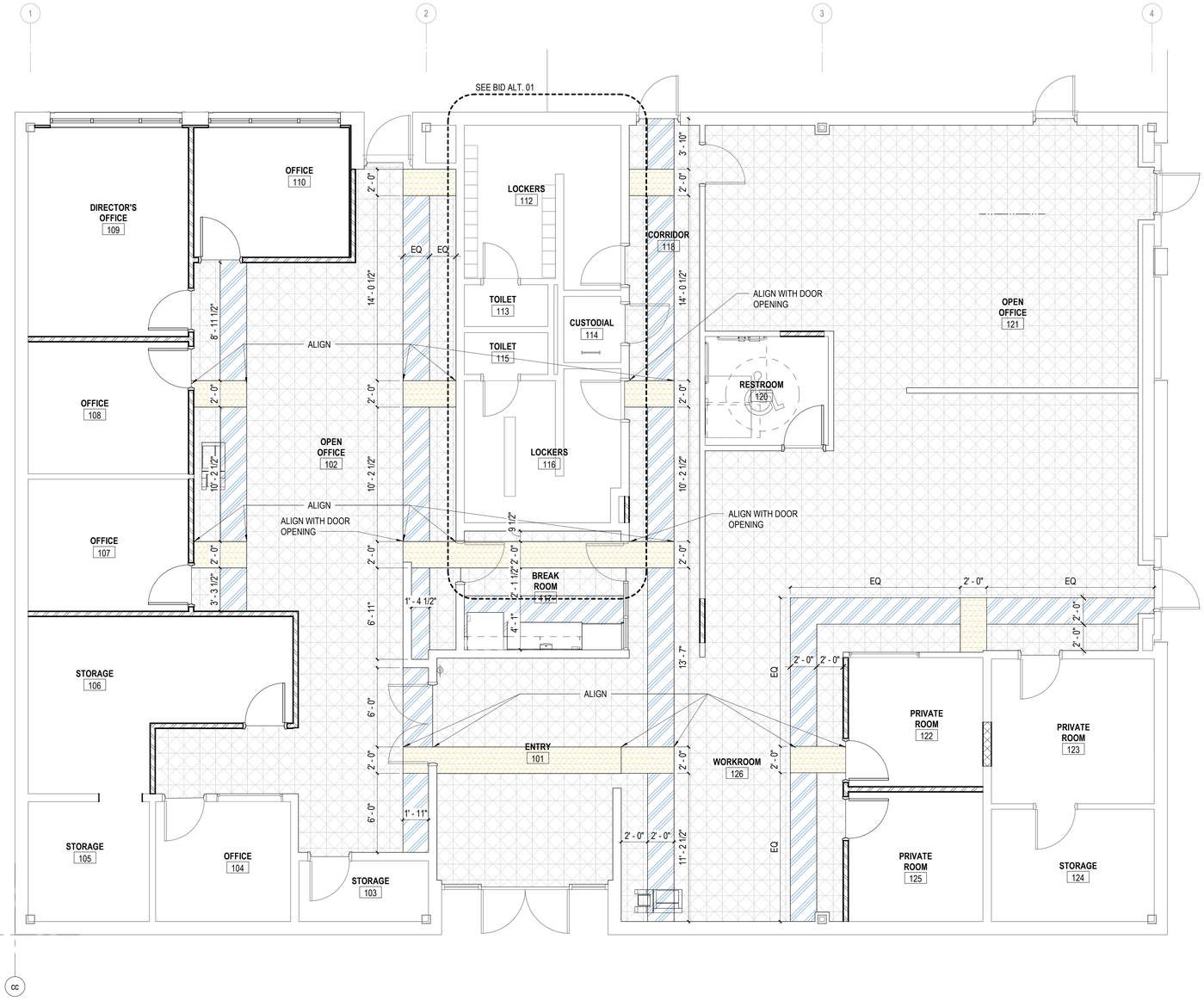
DRAWING
FINISH FLOOR PLAN

SHEET
A-604

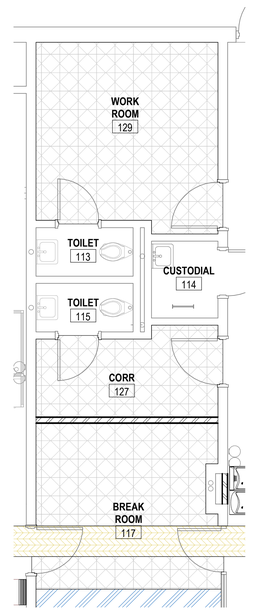


FIRST FLOOR - FLOOR PATTERN FLOOR PLAN

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

FLOOR PATTERN LEGEND

- RT1
- RT2
- RT3



FLOOR PATTERN FLOOR PLAN - ALT. 01

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

MARK	DATE	REVISIONS DESCRIPTION	BY

DATE	1/09/2025
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CHECKED	RRMM

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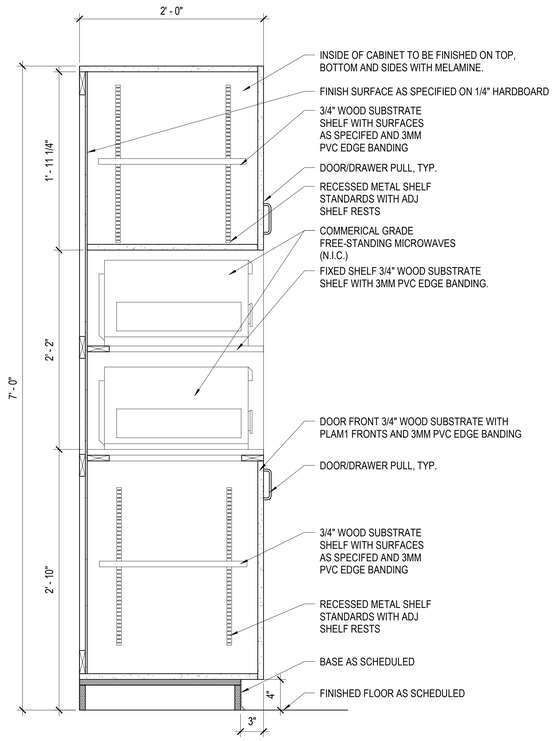
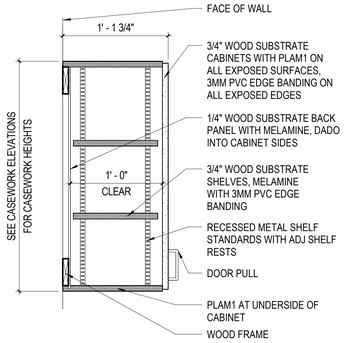
DRAWING: FLOOR PATTERN PLAN

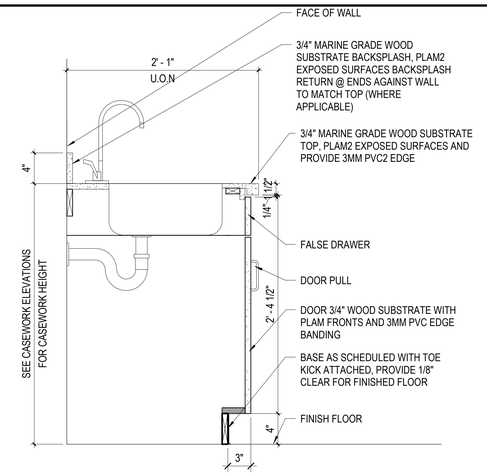
SHEET
A-605



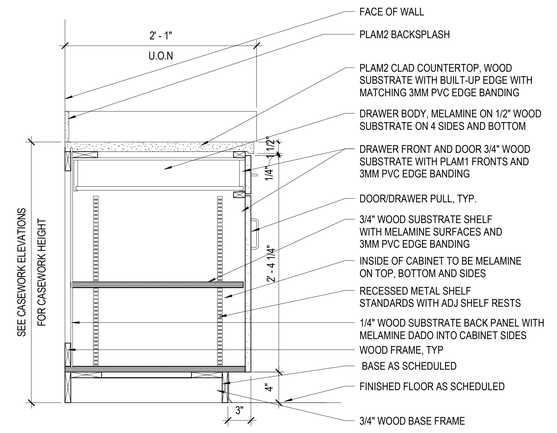
C1 / A-800 MICROWAVE CABINET
SCALE: 1 1/2" = 1'-0"



D3 / A-800 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"



D4 / A-800 SINK TOE KICK ATTACHED_SS
SCALE: 1 1/2" = 1'-0"



D5 / A-800 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"

MARK	DATE	REVISIONS	BY
		DESCRIPTION	

DATE	1/09/2025
PROJECT	21222-21
DESIGNED	RRMM
DRAWN	RRMM
CHECKED	RRMM

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DRAWING
CASEWORK SECTIONS

SHEET
A-800

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32" = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

PLUMBING FIXTURE SCHEDULE ①

MARK	FIXTURE	MANUFACTURER	MODEL NUMBER	MATERIAL	SIZE	MOUNTING HEIGHT	SUPPLY & DRAIN FITTING	SUPPLY STOPS	TRAP	PIPE ROUGH-IN SIZES				REMARKS
										W	V	HW	CW	
P-1	WATER CLOSET (ADA)	KOHLER	K-25077-56	VITREOUS CHINA	16-7/8" TO RIM	FLOOR MOUNTED	TANK TYPE	LOOSE KEY	-	3"	2"	-	1/2"	⑥ SEAT: K-4670-SC
P-1A	WATER CLOSET (ADA)	KOHLER	K-96057	VITREOUS CHINA	16-7/8" TO RIM	FLOOR MOUNTED	HYDROTEK HE8200-1.6	-	-	4"	2"	-	1"	⑤ SEAT: K-4670-SC
P-2	LAVATORY (ADA)	KOHLER	K-2005	VITREOUS CHINA	21-1/4" x 18-1/8"	34" TO RIM	FAUCET: HB-100C-LR DRAIN: 155A	LOOSE KEY	17 GAUGE W/ CLEANOUT	1-1/2"	2"	1/2"	1/2"	②③④
P-3	ELECTRIC WATER COOLER (BI-LEVEL ADA)	ELKAY	LZSTL8WSLK	STAINLESS STEEL	-	27" TO LOWER APRON	-	W/ HANDLE	17 GAUGE W/ CLEANOUT	1-1/2"	2"	-	1/2"	⑦
P-4	SINGLE BOWL SINK (ADA)	JUST	USADA1821A55-J	STAINLESS STEEL	18" x 21" 5-3/8" DEEP	UNDERMOUNT	FAUCET: B-2852 DRAIN: J-35	LOOSE KEY	17 GAUGE W/ CLEANOUT	1-1/2"	2"	1/2"	1/2"	⑦⑧

NOTES:

① ALL FIXTURES TO BE LOW CONSUMPTION AND VANDAL-RESISTANT.

② PROVIDE TRUEBRO UNDERSINK PIPE COVER KIT MODEL #102E-Z FOR ALL EXPOSED PIPING BELOW LAVATORY OR SINK.

③ FAUCET BY HYDROTEK, DRAIN BY MCGUIRE.

④ BATTERY POWERED, SENSOR ACTIVATED FAUCET, LEAD-FREE.

⑤ BATTERY POWERED, SENSOR ACTIVATED FLUSH VALVE.

⑥ TANK TYPE WATER CLOSET, 1.28 GALLONS PER FLUSH.

⑦ PROVIDE WITH BOTTLE FILLER AND CANE APRON AND TWO EXTRA FILTERS.

⑧ CONNECT DRAIN TO EXISTING SINK DRAIN PUMP WP-1 AND PUMPED WASTE AND VENT PIPES.

PLUMBING DRAIN AND EQUIPMENT SCHEDULE

ITEM	MANUFACTURER	MODEL NUMBER	REMARKS
WATERLESS TRAP SEAL	GREEN DRAIN	SERIES P24000	BARRIER-TYPE TRAP SEAL DEVICE. ASSE 1072 CERTIFIED.
MIXING VALVE #1 (MV-1)	LEONARD	170	MOUNT MIXING VALVE BELOW LAVATORIES P-2. ASSE 1070 CERTIFIED.

LEGEND

- EXISTING COLD WATER PIPING
- CW — COLD WATER PIPING
- G — EXISTING GAS PIPING
- G — GAS PIPING
- EXISTING HOT WATER PIPING
- HW — HOT WATER PIPING
- PW — EXISTING PUMPED WASTE PIPING
- PW — PUMPED WASTE PIPING
- SAN — EXISTING SANITARY WASTE PIPING
- SAN — SANITARY WASTE PIPING
- V — VENT PIPING
- THREADED UNION
- PIPE CAP
- PIPE UP
- PIPE DOWN
- PIPE TEE DOWN
- PIPE TEE UP
- DIRECTION OF FLOW IN PIPE
- WCO — WALL CLEANOUT
- BALL VALVE
- BALL VALVE IN VERTICAL
- EXISTING GAS SHUT-OFF VALVE
- GAS SHUT-OFF VALVE
- WH — WALL HYDRANT
- GAS PRESSURE REGULATOR
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW WORK
- D1 — DEMOLITION NOTE
- 1 — NEW WORK NOTE
- REMOVE EXISTING TO THIS POINT
- POINT OF CONNECTION FOR NEW WORK
- 1 / P2.01 — FIELD PICTURE NUMBER / SHEET NUMBER WHERE FIELD PICTURE IS SHOWN

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	PSI	POUNDS PER SQUARE INCH
CF/HR	CUBIC FEET PER HOUR	RTU	ROOFTOP UNIT
CW	COLD WATER	SAN	SANITARY WASTE
DW	DISHWASHER	SOV	SHUT-OFF VALVE
DWV	DRAIN, WASTE AND VENT	TYP	TYPICAL
EXIST	EXISTING	V	VENT
G	GAS	VTR	VENT THRU ROOF
HW	HOT WATER	W	SANITARY WASTE
MV-1	MIXING VALVE MARK	WCO	WALL CLEANOUT
P-1	FIXTURE MARK	WP-1	WASTE PUMP MARK
PW	PUMPED WASTE	WH	WALL HYDRANT

GENERAL NOTES

1. PIPING SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
2. PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR LATERAL PIPE MOVEMENT.
3. ARRANGE EXPOSED AND ABOVE CEILING PIPING TO CLEAR DUCTWORK, CONDUITS, LIGHT FIXTURES, ETC., AND ALLOW FOR PIPE HANGERS AND ACCESS TO VALVES.
4. OVERHEAD PIPING IN EXPOSED STRUCTURE AREAS SHALL BE RUN AS CLOSE TO ROOF DECK AS PRACTICABLE AND PARALLEL TO FRAMING WHEN POSSIBLE.
5. INSTALL ALL DOMESTIC WATER PIPING ON CONDITIONED SIDE OF BUILDING INSULATION.
6. ALL GAS SHUT-OFF VALVES TO MEET ASME B16.44. VALVES FOR 2 PSI SERVICE SHALL BE LABELED 2G.
7. ALL HOT WATER AND HOT WATER RECIRCULATING PIPING SHALL HAVE A MINIMUM OF ONE INCH THICK INSULATION.
8. ALL DOMESTIC WATER PIPING SIZES BASED ON 8 FEET PER SECOND (MAXIMUM RECOMMENDED BY CODE).

GENERAL DEMOLITION NOTES

1. REFER TO ARCHITECTURAL PLANS FOR CUTTING AND PATCHING OF FLOORS, WALLS AND CEILINGS.
2. THE EXACT LOCATION OF HIDDEN PLUMBING WORK SUCH AS PIPING BELOW THE SLAB OR BELOW GRADE, OR INSIDE OF WALLS IS UNKNOWN. CONTRACTOR SHALL LOCATE ALL PIPING REQUIRED FOR DEMOLITION OR NEW CONNECTIONS USING LOCATING INSTRUMENTS AND/OR EXCAVATION METHODS AS REQUIRED. VERIFY ALL EXISTING PIPE SIZES, MATERIALS AND DEPTH PRIOR TO MAKING NEW CONNECTIONS. MODIFY EXISTING ROUGH-INS AS REQUIRED FOR NEW PLUMBING FIXTURES.
3. INVERTS OF EXISTING UNDERGROUND SANITARY PIPING SHALL BE CHECKED AGAINST NEW CONNECTED PIPING LAYOUTS PRIOR TO NEW EXCAVATIONS AND PIPE INSTALLATION. CONTRACTOR SHALL ROUTE PIPING IN A MANNER TO MAINTAIN REQUIRED SLOPE ON PIPING AND MEET EXISTING INVERTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AT HIS SOLE EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
5. COORDINATE WITH OWNER PRIOR TO SHUTTING OFF WATER SUPPLY, GAS SUPPLY OR DISRUPTING SEWER USAGE. REFER TO THE SPECIFICATIONS FOR PROCEDURES TO BE FOLLOWED. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING TOILETS AND OTHER PLUMBING FACILITIES WHILE SERVICES ARE NOT AVAILABLE FOR USE.
6. CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ENGINEER ALL FIELD CONDITIONS ENCOUNTERED WHICH ARE NOT SHOWN ON THE DRAWINGS AND WHICH WERE NOT REASONABLY ANTICIPATED.
7. WHERE PIPING IS SHOWN TO BE ABANDONED, CAP ALL ABOVE AND BELOW GRADE PIPING FOR A PERMANENT WATERTIGHT SEAL.
8. DUE TO THE AGE OF THE BUILDING, THE CONTRACTOR SHALL ROD AND FLUSH ALL EXISTING UNDERGROUND WASTE PIPING INDICATED TO BE REUSED OR REMAIN ACTIVE. ONCE THE PIPING HAS BEEN THOROUGHLY FLUSHED FREE OF ALL DEBRIS AND FUNCTIONING PROPERLY, THE PIPING SHALL BE INSPECTED WITH A CAMERA TO DETERMINE ITS CONDITION. ANY WEAKENED, WORN OR DAMAGED PIPING SHALL BE REPORTED TO THE ENGINEER.

ASBESTOS DISCLOSURE STATEMENT

AN ASBESTOS INSPECTION WAS PERFORMED AND ASBESTOS-CONTAINING MATERIALS WERE FOUND GENERALLY IN THE AREAS INDICATED. THE ASBESTOS SURVEY/INSPECTION REPORT IS AVAILABLE TO THE CONTRACTOR(S) FOR HIS INFORMATION. THE ASBESTOS-CONTAINING MATERIALS SHALL BE REMOVED PRIOR TO ANY OTHER WORK BEING PERFORMED IN THE INDICATED AREAS. THE ASBESTOS MANAGEMENT PLAN IS INCLUDED IN THE DOCUMENTS. THE ASBESTOS ABATEMENT CONTRACTOR SHALL MARK UP THE ASBESTOS MANAGEMENT PLAN TO SHOW THE "AS-BUILT" CONDITIONS RESULTING FROM ITS WORK TO INCLUDE AREAS WHERE ASBESTOS WAS ABATED, AREAS WHERE ASBESTOS WAS ENCAPSULATED AND AREAS WHERE ASBESTOS CONTAINING MATERIALS EXIST BUT WERE LEFT IN PLACE.

NOTE: EXISTING CONDITIONS ILLUSTRATED HAVE BEEN DETERMINED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND LIMITED NON-INVASIVE FIELD INVESTIGATION. THE CONTRACTOR SHALL INVESTIGATE FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND MAKE ADJUSTMENTS AS NECESSARY.

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MARK	DATE	REVISIONS	BY	DESCRIPTION

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	MWP
DRAWN	KPP
CHECKED	KDA

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DRAWING: LEGEND, NOTES AND ABBREVIATIONS

SHEET
P-001

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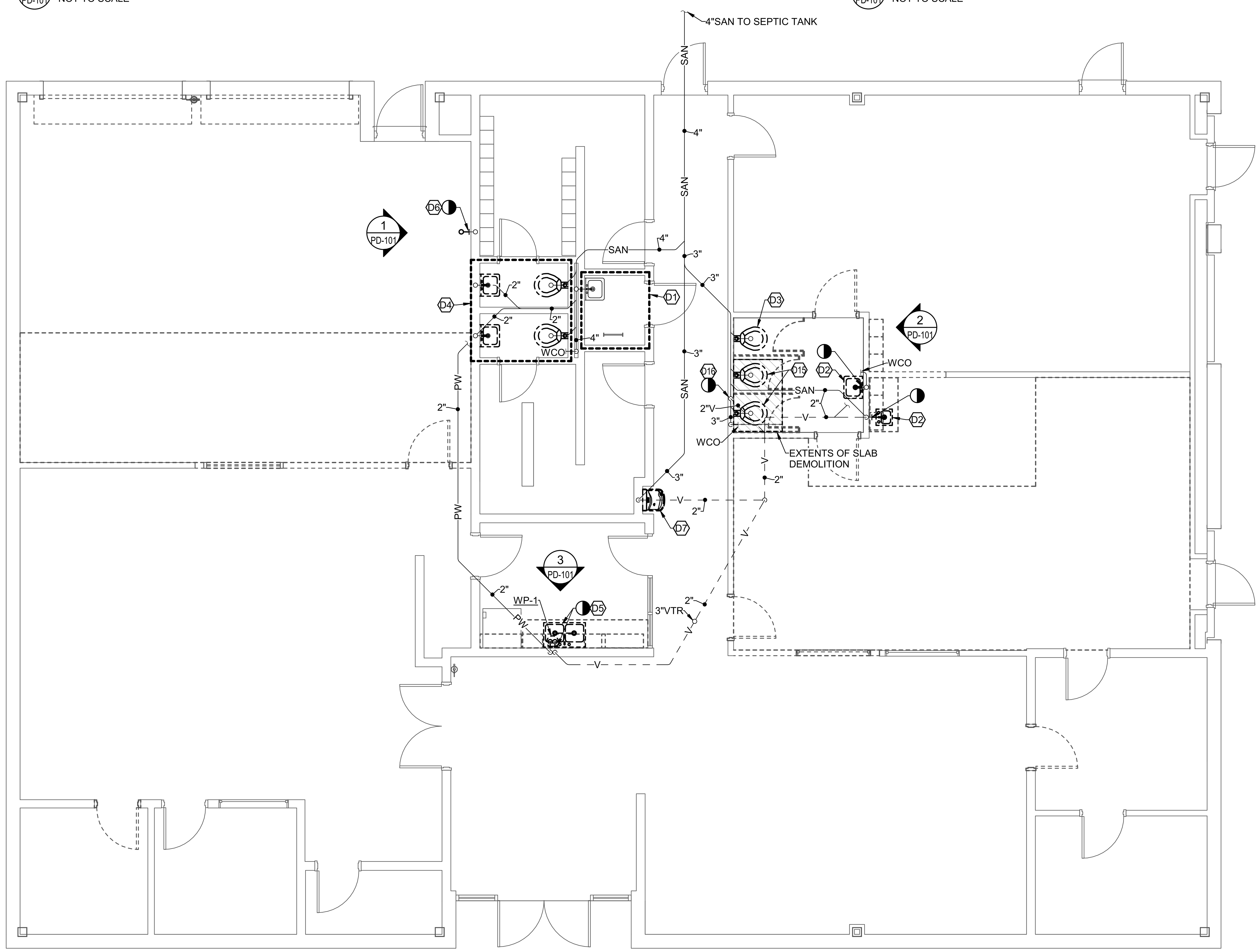
1 PD-101 **FIELD PICTURE #1**
NOT TO SCALE

2 PD-101 **FIELD PICTURE #2**
NOT TO SCALE

DEMOLITION NOTES

NO.	DESCRIPTION
D1	NO PLUMBING WORK IN THIS AREA.
D2	DISCONNECT AND REMOVE PLUMBING FIXTURE. CAP ALL ROUGH-INS AT WALL. WALL CLEANOUT TO REMAIN.
D3	DISCONNECT AND REMOVE TANK TYPE WATER CLOSET. CAP ROUGH-INS TEMPORARILY FOR NEW TANK TYPE WATER CLOSET P-1 INSTALLATION.
D4	DISCONNECT AND REMOVE PLUMBING FIXTURES IN THIS AREA. CAP ROUGH-INS TEMPORARILY FOR NEW FIXTURE INSTALLATION.
D5	DISCONNECT AND REMOVE TWO COMPARTMENT SINK. CAP PUMPED WASTE AND VENT PIPE TEMPORARILY AT WALL. WP-1 TO BE RE-USED. DISCHARGE FROM WP-1 IS ROUTED TO A WASTE STACK AND SHALL REMAIN FOR FUTURE USE.
D6	CUT AND CAP HOT AND COLD WATER AND SANITARY WASTE WASHING MACHINE STANDPIPE AT POINTS INDICATED.
D7	DISCONNECT AND REMOVE ELECTRIC WATER COOLER. WASTE, VENT AND COLD WATER ROUGH-INS TO REMAIN AND BE REWORKED AS REQUIRED FOR NEW BI-LEVEL UNIT.
D15	DISCONNECT AND REMOVE TWO TANK TYPE WATER CLOSETS. CAP WASTE ROUGH-INS AT FLOOR AND WATER ROUGH-INS AT WALL. WALL CLEANOUT TO REMAIN.
D16	REWORK 2" VENT FROM UNDERGROUND WASTE AS NEEDED TO ACCEPT NEW LAVATORY P-2 WASTE.



DEMOLITION FLOOR PLAN - DRAIN, WASTE AND VENT
SCALE: 1/4" = 1'-0"

WP-1 D5

3 PD-101 **FIELD PICTURE #3**
NOT TO SCALE

MARK	DATE	BY	DESCRIPTION
REVISIONS			

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	MWP
DRAWN	KPP
CHECKED	KDA

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DRAWING
DEMOLITION FLOOR PLAN - DRAIN, WASTE AND VENT

SHEET
PD-101

1/22/2025 8:56:29 AM Autodesk Docs://21222-21 SPS Pruden Daycare/Pruden Daycare - Plumbing - R24.rvt

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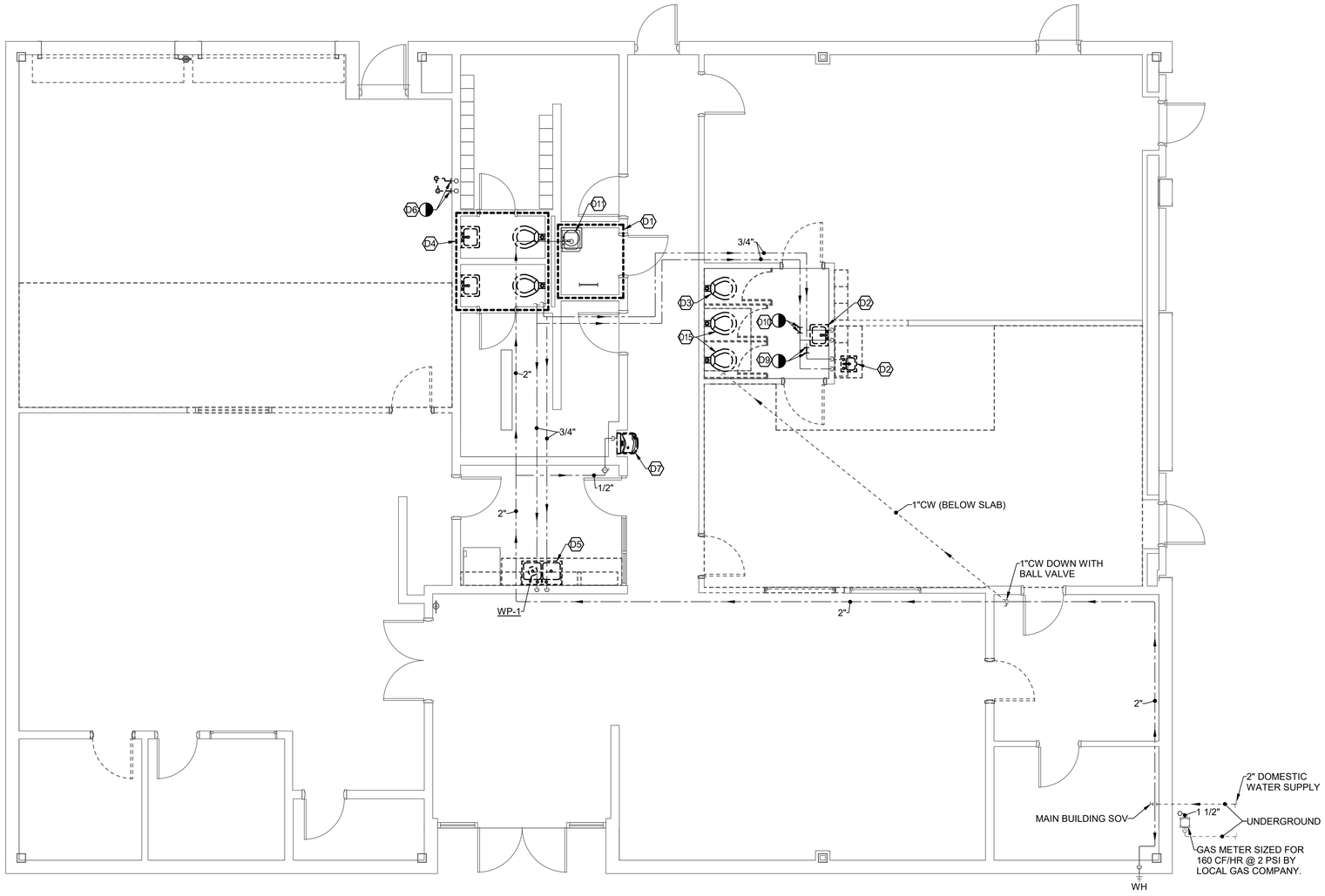
HAMPTON, VA 23666
GLEN ALLEN, VA 23060
VA BEACH, VA 23452
PROJECT #16-092

DEMOLITION NOTES	
NO.	DESCRIPTION
D1	NO PLUMBING WORK IN THIS AREA.
D2	DISCONNECT AND REMOVE PLUMBING FIXTURE. CAP ALL ROUGH-INS AT WALL. WALL CLEANOUT TO REMAIN.
D3	DISCONNECT AND REMOVE TANK TYPE WATER CLOSET. CAP ROUGH-INS TEMPORARILY FOR NEW TANK TYPE WATER CLOSET P-1 INSTALLATION.
D4	DISCONNECT AND REMOVE PLUMBING FIXTURES IN THIS AREA. CAP ROUGH-INS TEMPORARILY FOR NEW FIXTURE INSTALLATION.
D5	DISCONNECT AND REMOVE TWO COMPARTMENT SINK. CAP PUMPED WASTE AND VENT PIPE TEMPORARILY AT WALL. WP-1 TO BE RE-USED. DISCHARGE FROM WP-1 IS ROUTED TO A WASTE STACK AND SHALL REMAIN FOR FUTURE USE.
D6	CUT AND CAP HOT AND COLD WATER AND SANITARY WASTE WASHING MACHINE STANDPIPE AT POINTS INDICATED.
D7	DISCONNECT AND REMOVE ELECTRIC WATER COOLER. WASTE, VENT AND COLD WATER ROUGH-INS TO REMAIN AND BE REWORKED AS REQUIRED FOR NEW BI-LEVEL UNIT.
D9	REMOVE HOT WATER PIPING TO POINT INDICATED.
D10	REMOVE COLD WATER PIPING TO POINT INDICATED.
D11	STORAGE TYPE ELECTRIC WATER HEATER ON PLATFORM TO REMAIN.
D15	DISCONNECT AND REMOVE TWO TANK TYPE WATER CLOSETS. CAP WASTE ROUGH-INS AT FLOOR AND WATER ROUGH-INS AT WALL. WALL CLEANOUT TO REMAIN.



DEMOLITION FLOOR PLAN - DOMESTIC WATER

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

MARK	DATE	REVISIONS DESCRIPTION
		BY

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	MWP
DRAWN	KPP
CHECKED	KDA

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DRAWING
DEMOLITION FLOOR PLAN - DOMESTIC WATER

SHEET
PD-201

4 PD-301 FIELD PICTURE #4
NOT TO SCALE

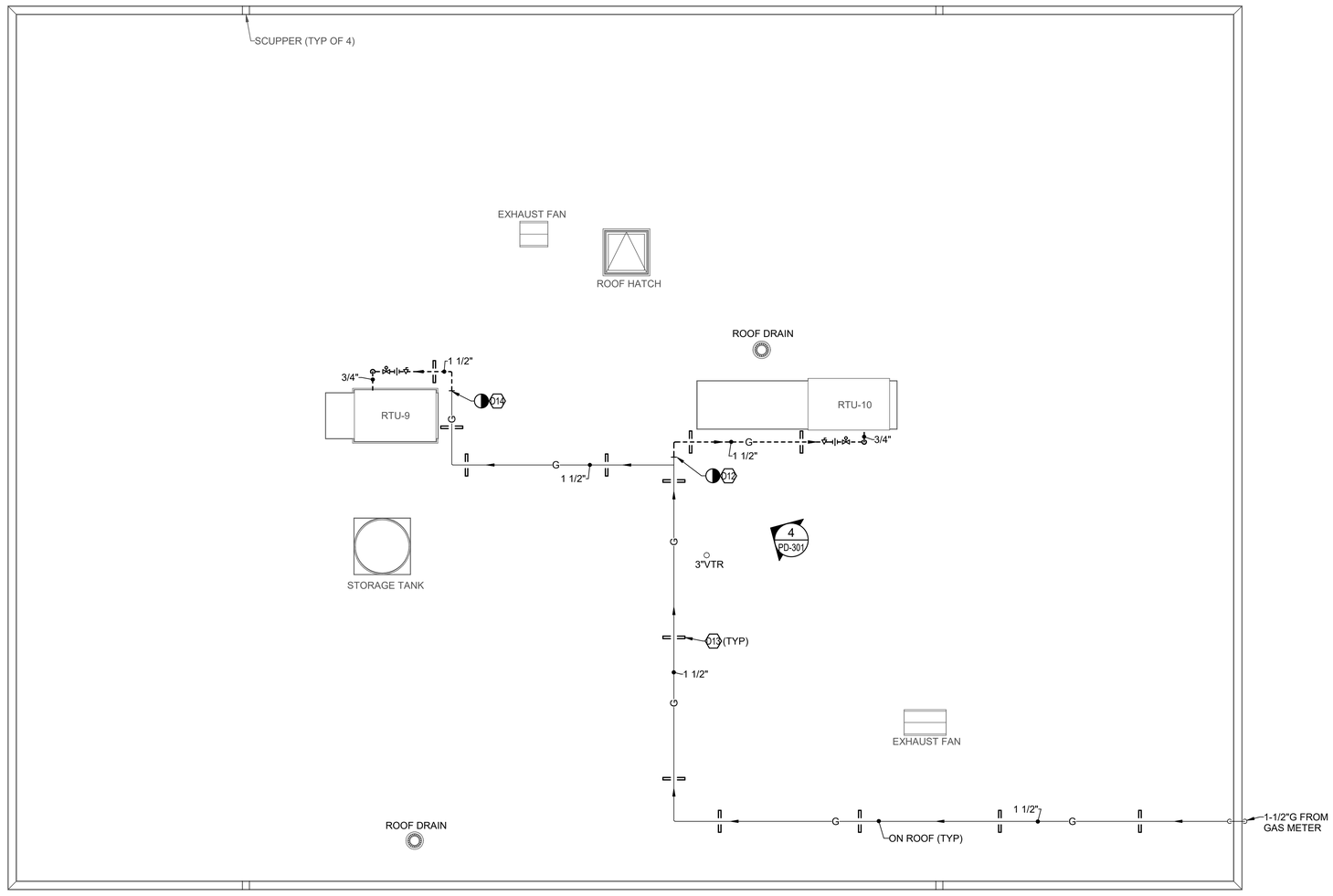
EXISTING GAS DEMAND

USE	CF/HR
MECHANICAL HEATING:	
ROOFTOP UNIT #9 (RTU-9)	80
ROOFTOP UNIT #10 (RTU-10)	80
TOTAL	160

NOTE: SEE SHEET PD-201 FOR LOCATION OF GAS METER AND SERVICE.

DEMOLITION NOTES

NO.	DESCRIPTION
D12	CUT GAS PIPING AT POINT INDICATED. REMOVE GAS PIPING TO RTU COMPLETE.
D13	REMOVE AND REPLACE GAS PIPING SUPPORTS COMPLETE.
D14	CUT AND CAP GAS PIPING AT POINT INDICATED. REMOVE GAS PIPING TO RTU COMPLETE.



DEMOLITION ROOF PLAN - PLUMBING - ALT 01
SCALE: 1/4" = 1'-0"

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MARK	DATE	REVISIONS	BY	DESCRIPTION

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	MVP
DRAWN	KPP
CHECKED	KDA

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ARCHITECTS, PC
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Chesapeake, Virginia 23320
(757)622-2828

COMMONWEALTH OF VIRGINIA
KEVIN D. ALLEN
Lic. No. 023349
01.23.2025
PROFESSIONAL ENGINEER

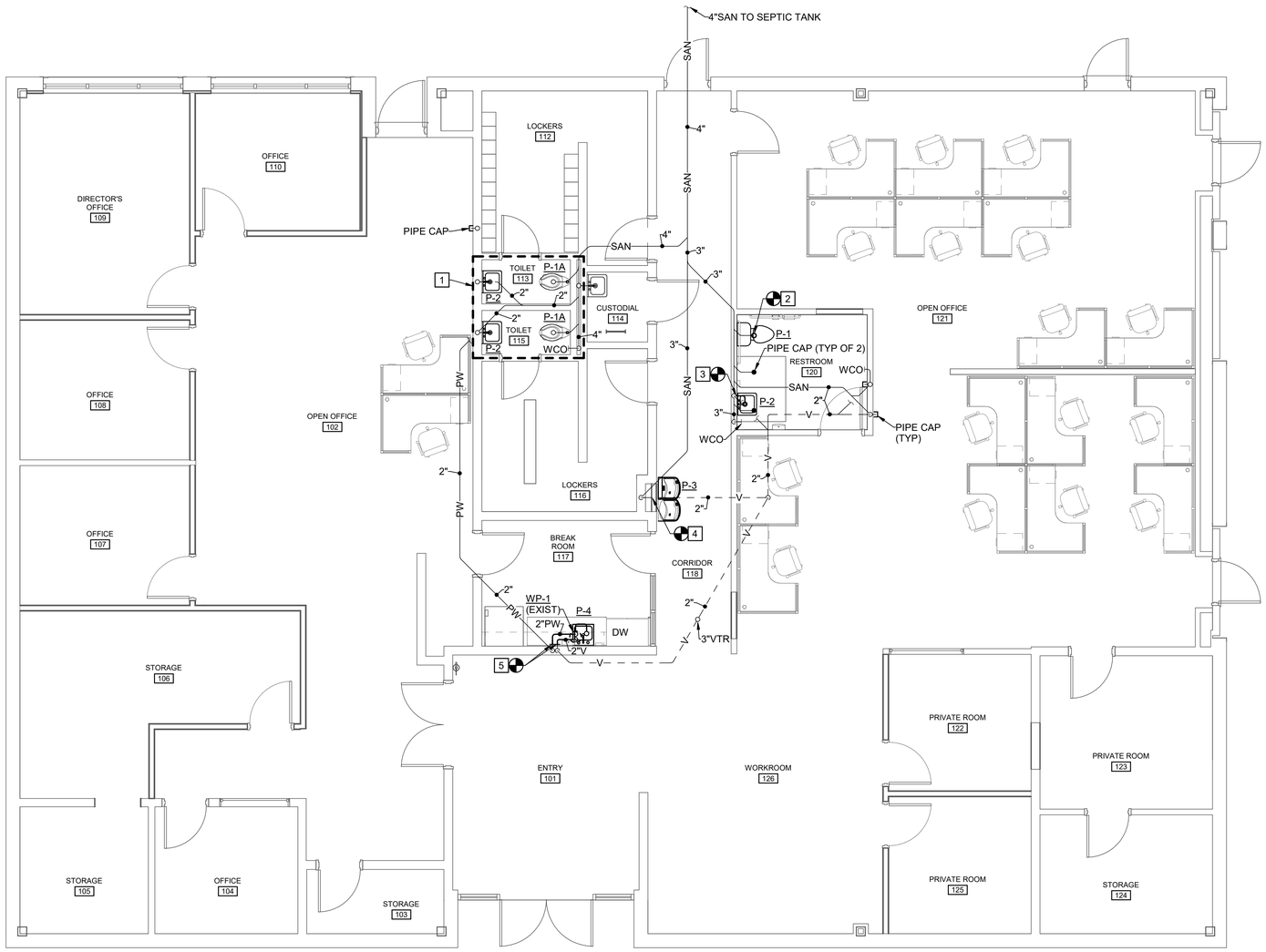
PROJECT: SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING: DEMOLITION ROOF PLAN - PLUMBING - ALT 01

SHEET
PD-301

THOMPSON
Consulting Engineers
22 ENTERPRISE PARKWAY, HAMPTON, VA 23666
4411 COX ROAD, GLEN ALLEN, VA 23060
2809-S LYNNHAVEN ROAD, VA BEACH, VA 23452
TELEPHONE: (757) 399-4433 PROJECT #16-092

NEW WORK NOTES ☐	
NO.	DESCRIPTION
1	INSTALL PLUMBING FIXTURES IN THIS AREA CONNECTION TO EXISTING ROUGH-INS FOR SANITARY WASTE AND HOT/COLD WATER. REWORK ROUGH-INS AS REQUIRED.
2	CONNECT NEW TANK TYPE WATER CLOSET TO EXISTING WASTE AT FLOOR AND COLD WATER ROUGH-IN.
3	CONNECT NEW LAVATORY WASTE TO WASTE BELOW SLAB IN WALL. INSTALL NEW MV-1 BELOW LAVATORY ON LEFT SIDE CONNECTING TO NEW HOT AND COLD WATER PIPING.
4	CONNECT NEW WASTE FROM ELECTRIC WATER COOLER TO EXISTING WASTE AND VENT RISER IN WALL. CONNECT EXISTING 1/2" COLD WATER TO FIXTURE.
5	CONNECT NEW UNDERMOUNT SINK TO EXISTING WP-1 AND 2" PUMPED WASTE AND 2" VENT UP IN WALL.



NEW WORK FLOOR PLAN - DRAIN, WASTE AND VENT

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

MARK	DATE	DESCRIPTION
REVISIONS	BY	

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	MVP
DRAWN	KPP
CHECKED	KDA

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DRAWING: NEW WORK FLOOR PLAN - DRAIN, WASTE AND VENT

SHEET
P-101

THOMPSON
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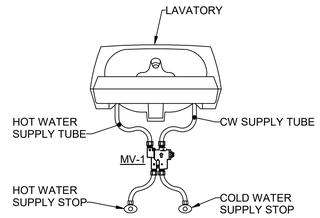
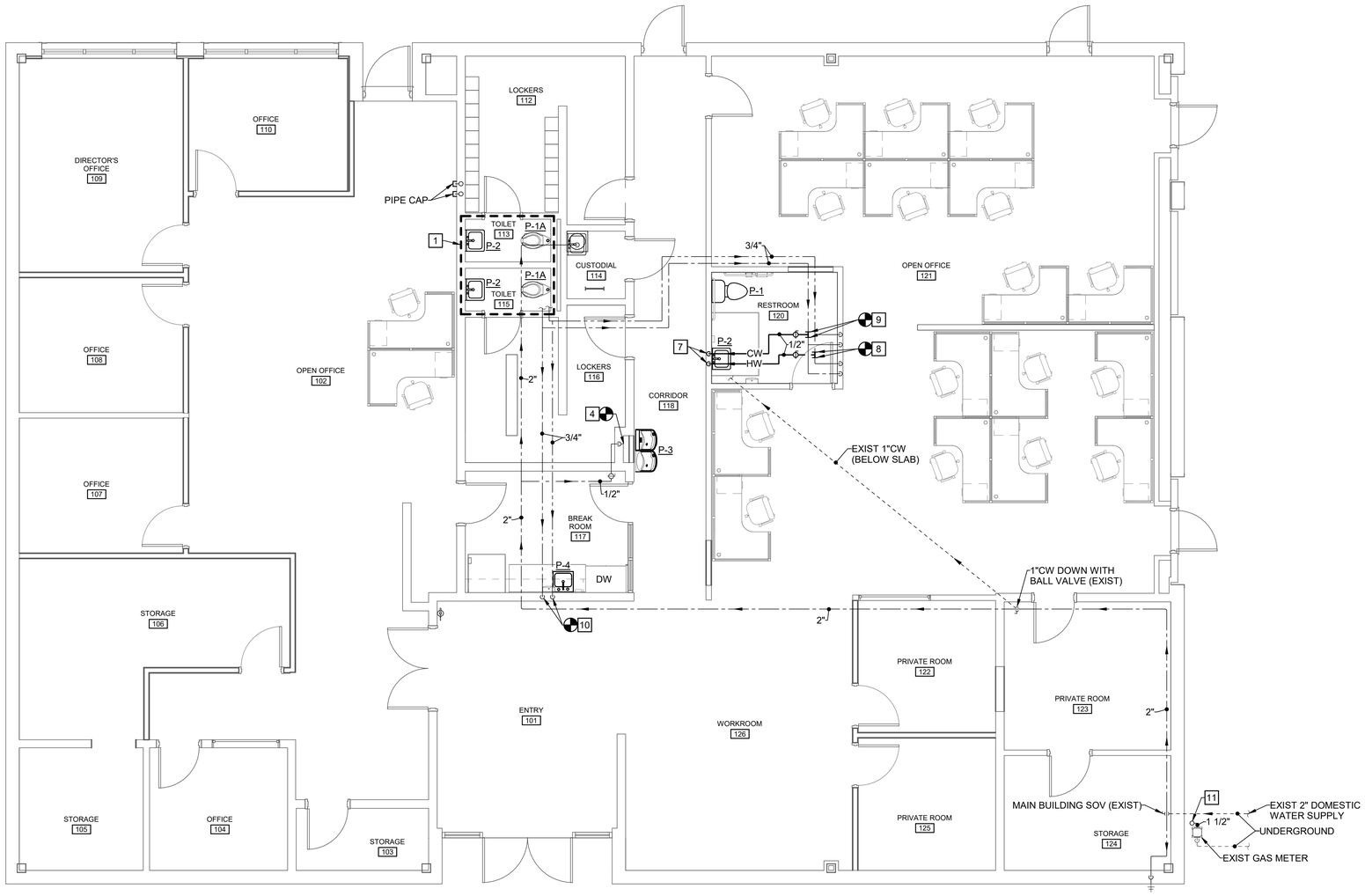
2809-S. LYNNHAVEN ROAD, VA BEACH, VA 23452
TELEPHONE: (757) 399-4433 PROJECT #16-092

NEW WORK NOTES ☐	
NO.	DESCRIPTION
1	INSTALL PLUMBING FIXTURES IN THIS AREA CONNECTION TO EXISTING ROUGH-INS FOR SANITARY WASTE AND HOT/COLD WATER. REWORK ROUGH-INS AS REQUIRED.
4	CONNECT NEW WASTE FROM ELECTRIC WATER COOLER TO EXISTING WASTE AND VENT RISER IN WALL. CONNECT EXISTING 1/2" COLD WATER TO FIXTURE.
7	1/2" HOT AND COLD WATER DOWN.
8	CONNECT NEW 1/2" HOT WATER AT POINTS INDICATED.
9	CONNECT NEW 1/2" COLD WATER AT POINTS INDICATED.
10	CONNECT NEW 1/2" HOT AND COLD WATER TO EXISTING ROUGH-INS. BRANCH 1/2" HOT WATER TO DISHWASHER.
11	1-1/2" GAS AT 2 PSI TO ROOF.



NOTE: TYPICAL FOR ALL P-2

MIXING VALVE DETAIL (MV-1)
NOT TO SCALE



NEW WORK FLOOR PLAN - DOMESTIC WATER
SCALE: 1/4" = 1'-0"

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	MVP
DRAWN	KPP
CHECKED	KDA

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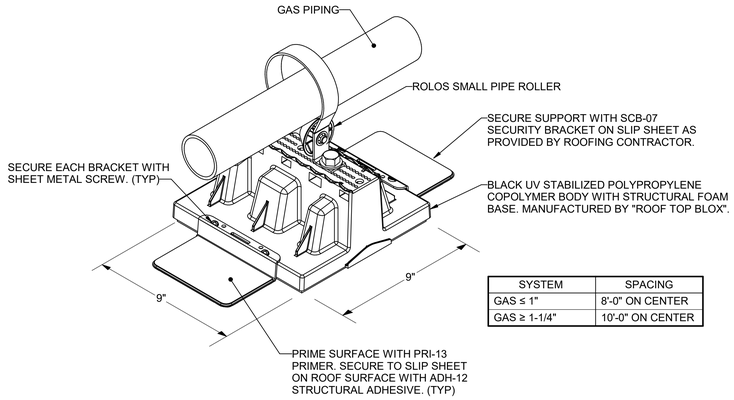
DRAWING: NEW WORK FLOOR PLAN - DOMESTIC WATER

SHEET
P-201

MARK	DATE	REVISIONS	BY
		DESCRIPTION	



SYSTEM	SPACING
GAS ≤ 1"	8'-0" ON CENTER
GAS ≥ 1-1/4"	10'-0" ON CENTER

GAS PIPING SUPPORT DETAIL

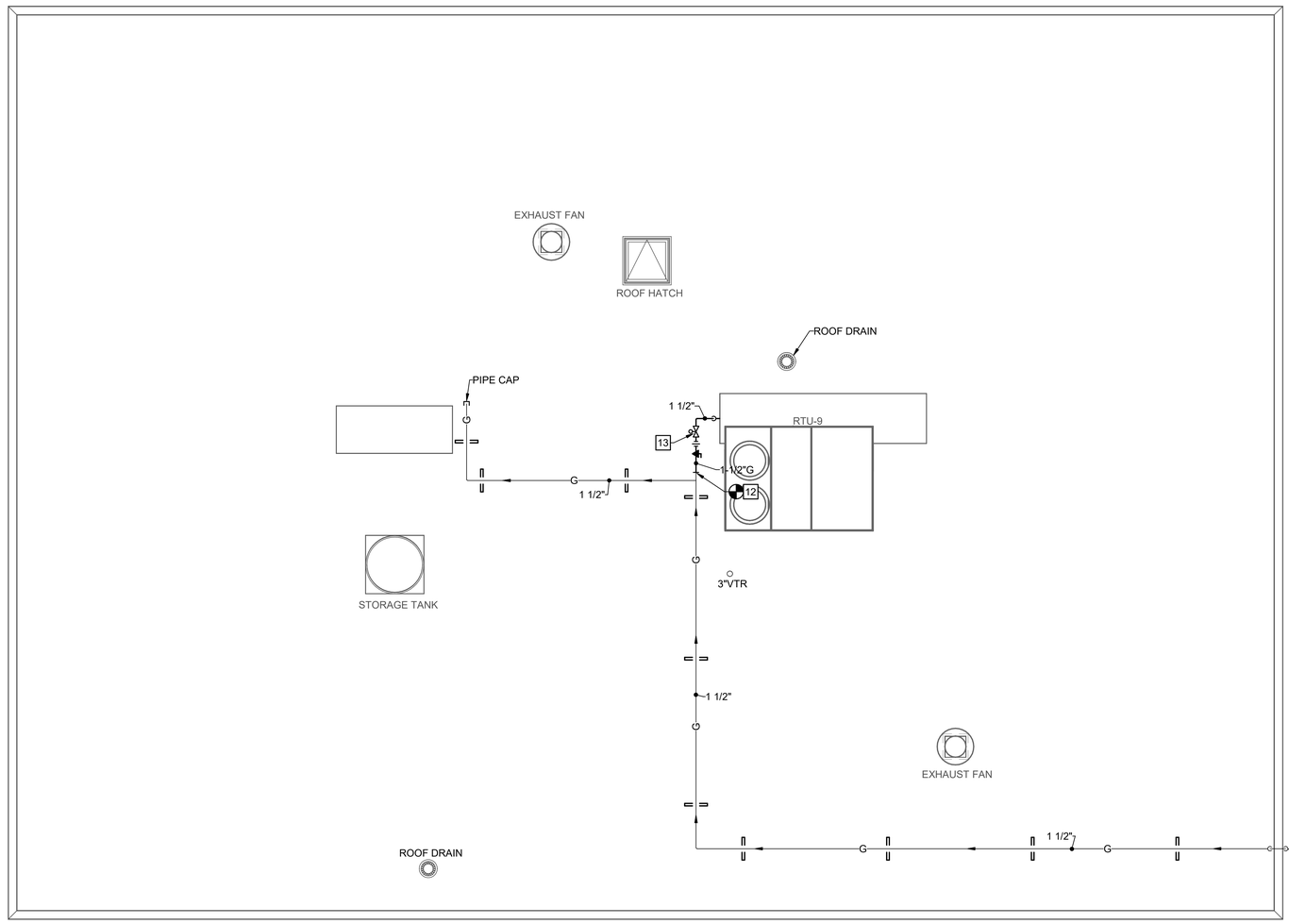
NOT TO SCALE

NEW GAS DEMAND

USE	CF/HR
MECHANICAL HEATING:	
ROOFTOP UNIT #9 (RTU-9)	250
TOTAL	250

NOTE: SEE SHEET P-201 FOR LOCATION OF EXISTING GAS METER AND SERVICE.

NEW WORK NOTES ☐	
NO.	DESCRIPTION
12	CONNECT NEW 1-1/2" GAS TO EXISTING GAS AT POINT INDICATED.
13	GAS REGULATOR SIZED FOR 250 CF/HR FROM 2 PSI TO 7-12" WATER COLUMN.



NEW WORK ROOF PLAN - PLUMBING - ALT 01

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

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MARK	DATE	REVISIONS BY DESCRIPTION

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	MWP
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DRAWING
NEW WORK ROOF PLAN - PLUMBING - ALT 01

SHEET
P-301

GENERAL DEMOLITION NOTES

1. WHERE EQUIPMENT IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF EQUIPMENT, INCLUDING CURBS, SUPPORTS, GUYS, ANCHORS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO EQUIPMENT. OWNER MAINTAINS THE OWNERSHIP OF ALL ITEMS TAGGED OR IDENTIFIED.
2. WHERE PIPING IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF PIPING, INCLUDING VALVES, FITTINGS, INSULATION, SUPPORTS, HANGERS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO THE PIPING. PIPING IS DIAGRAMMATIC AND INDICATES THE GENERAL EXTENT OF WORK. NO ATTEMPT IS MADE TO SHOW EVERY ELL, TEE, OFFSET, FITTING AND VALVE. REMOVE PIPING AS INDICATED AND SPECIFIED.
3. WHERE DUCTWORK IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF DUCTWORK, INCLUDING FITTINGS, INSULATION, SUPPORTS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO THE DUCTWORK. DUCTWORK IS DIAGRAMMATIC AND INDICATES THE GENERAL EXTENT OF WORK. NO ATTEMPT IS MADE TO SHOW EVERY ELL, TEE, OFFSET AND FITTING. REMOVE DUCTWORK AS INDICATED AND SPECIFIED.
4. REFER TO REFLECTED CEILING PLANS FOR DEMOLITION AND NEW WORK RELATED TO CEILINGS.
5. CONTRACTOR SHALL RECLAIM AND DISPOSE OF ALL REFRIGERANT IN ACCORDANCE WITH ALL STATE AND LOCAL CODES PRIOR TO REMOVING THE EXISTING UNIT.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT JOB SITE TO DETERMINE EXTENT OF WORK INVOLVED PRIOR TO BIDDING THE PROJECT.
2. THE MECHANICAL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2021 VIRGINIA UNIFORM STATEWIDE BUILDING CODE.
3. COORDINATE LOCATION OF ALL DUCTWORK, SUPPLY AND RETURN DEVICES, EXHAUST FANS, THERMOSTATS AND OTHER WALL OR CEILING MOUNTED EQUIPMENT WITH REFLECTED PLANS, LIGHT FIXTURES, SPRINKLER SYSTEMS AND ACCESSORIES INSTALLED BY OTHER TRADES SO AS TO PRESENT A NEAT AND ATTRACTIVE INSTALLATION THROUGHOUT THE BUILDING. LINEAR SLOT DIFFUSERS THAT OCCUR BETWEEN CLOUDS WILL BE CENTERED BETWEEN CLOUDS.
4. ALL PIPING, VALVES, DUCTWORK, ETC., SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
5. ARRANGE DUCTWORK ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, CONDUIT, LIGHTS, ETC., ALLOWING SPACE FOR HANGERS, INSULATION, ETC.
6. DUCT DIMENSIONS MAY BE MODIFIED AS APPROVED BY ENGINEER.
7. DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS.
8. MAINTAIN PROPER CLEARANCES PER ELECTRICAL CODE ON ALL VAV BOXES AND OTHER EQUIPMENT. COORDINATE WITH ALL TRADES TO ENSURE CLEARANCES ARE NOT OBSTRUCTED.
9. INSTALL ALL VAV BOXES BETWEEN 6 INCHES MINIMUM AND 24 INCHES MAXIMUM ABOVE CEILING.
10. FINAL LOCATION OF SPACE THERMOSTATS, HUMIDISTATS, AND SENSORS SHALL BE APPROVED BY ARCHITECT.
11. INSTALL ALL WALL MOUNTED NON-ADJUSTABLE SENSORS AT 5'-0" FROM FINISHED FLOOR TO TOP OF SENSOR. ADJUSTABLE DEVICES SHALL BE INSTALLED AT 4'-0' FROM FINISHED FLOOR TO TOP OF SENSOR.
12. ALL ROUND BRANCH DUCTS TO DIFFUSERS SHALL MATCH NECK SIZES SHOWN ON SCHEDULE, UNLESS OTHERWISE NOTED.
13. ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE SIZED TO HAVE A MINIMUM FREE AREA OF 70% AND MEET PERFORMANCE CRITERIA SCHEDULED.
14. PROVIDE A CONTINUOUS RETURN AIR PATH FROM SPACE CEILING RETURN PLENUMS TO THEIR ASSOCIATED ROOFTOP UNIT OR AIR HANDLER. IN SPACES HAVING WALLS THAT ARE CONTINUOUS TO DECK, AND FOR WHICH NO TRANSFER DUCT HAS BEEN INDICATED, PROVIDE SLEEVED WALL OPENING WITH TRANSFER "L" DUCT SIZED AT 500 FPM.
15. CONTRACTOR SHALL ONLY USE DESIGNATED AREAS WITHIN THE EQUIPMENT FOR PENETRATIONS OF ELECTRICAL CONDUITS AND CONTROL CONDUITS. THESE PENETRATIONS MUST BE WATERTIGHT. IF A CONTRACTOR PENETRATES ANY AREAS IN THE EQUIPMENT THAT IS NOT DESIGNATED BY THE MANUFACTURER FOR PENETRATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO THE EQUIPMENT, TO ENSURE IT IS WATERTIGHT. IF EQUIPMENT CAN NOT BE MADE WATERTIGHT, THE CONTRACTOR SHALL BE REQUIRED TO REPLACE EQUIPMENT AT HIS OWN EXPENSE.
16. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL WORK REQUIRED FOR INSTALLATION OF ROOF MOUNTED HVAC EQUIPMENT.
17. PROVIDE NEMA 3R ENCLOSURES FOR ALL INTERIOR FIELD-INSTALLED CONTROLS, ACCESSORIES, AND ELECTRICAL COMPONENTS WHETHER INDICATED OR NOT. FIELD-INSTALLED CONTROLS, ACCESSORIES, AND ELECTRICAL COMPONENTS INSTALLED EXTERIOR TO BUILDING SHALL BE NEMA 4X-SS.

ABBREVIATIONS

ø	DIAMETER
AFF	ABOVE FINISHED FLOOR
AMP	AMPERE
APD	AIR PRESSURE DROP
AUX	AUXILIARY
CFM	CUBIC FEET PER MINUTE
CO2	CARBON DIOXIDE
COP	COEFFICIENT OF PERFORMANCE
D	CONDENSATE DRAIN
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DISCH.	DISCHARGE
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF-x	EXHAUST FAN DESIGNATION
ESP	EXTERNAL STATIC PRESSURE
(EWH)	EXISTING TO REMAIN ELECTRIC WALL HEATER DESIGNATION
°F	DEGREES FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
H	HUMIDISTAT
HP	HORSEPOWER
HZ	HERTZ
IN	INCH/INCHES
kA	KILO AMPS INTERRUPTING CAPACITY
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
NC	NOISE CRITERIA
NO.	NUMBER
OA	OUTSIDE AIR
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RAD	RADIATED
RD	ROOF DRAIN
RH	RELIEF HOOD
RPM	REVOLUTIONS PER MINUTE
RTU-x	ROOFTOP UNIT DESIGNATION
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT RATING
SD	SMOKE DETECTOR
SENS	SENSIBLE
T	THERMOSTAT OR TEMPERATURE SENSOR
TEMP	TEMPORARY
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
V	VOLTS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WB	WET BULB
W.C.	WATER COLUMN

LEGEND

VOLUME DAMPER	(X"/X") EXISTING SIZES AS INDICATED
SD SMOKE DETECTOR LOCATION	THREADED UNION
CO2 CARBON DIOXIDE DETECTOR	C PIPE DOWN
100 BALANCE EXISTING AIR TERMINAL TO CFM INDICATED	D DRAIN PIPING
V 800 DIFFUSER, REGISTER, AND GRILLE CFM AS INDICATED	EXISTING PIPING TO REMAIN
H HUMIDISTAT OR HUMIDITY SENSOR	NEW PIPING
T xx THERMOSTAT OR TEMPERATURE SENSOR, CONTROLLING UNIT AS INDICATED	PIPING TO BE REMOVED
T xx SENSOR WITH GUARD	DIRECTION OF PITCH FOR PIPING OR DUCTWORK
RETURN/EXHAUST GRILLE	GAS PRESSURE REGULATOR
SUPPLY DIFFUSER	GAS SHUT-OFF VALVE
SIDEWALL GRILLE	ROOF DRAIN
LINEAR DIFFUSER	DOOR UNDERCUT
EXISTING TO BE REMOVED	
EXISTING TO REMAIN	
NEW DUCT WORK	
DUCTWORK WITH TRANSITION	
FLEXIBLE AIR DUCT	
RECTANGULAR DUCT ELBOW WITH TURNING VANES	
ROUND OR RADIUS DUCT ELBOW	
90º RECTANGULAR DUCT ELBOW - TURN UP	
90º RECTANGULAR DUCT ELBOW - TURN DOWN	
ROOF MOUNTED EXHAUST FAN	
ø ROUND DUCT	
X DEMOLITION NOTE	
X NEW WORK NOTE	
POINT OF DEMOLITION	
POINT OF NEW WORK	
DIRECTION OF AIR FLOW	

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TELEPHONE: (757) 399-4433 PROJECT #26-092

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	CEP
DRAWN	SLS
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DRAWING
GENERAL NOTES, LEGEND AND ABBREVIATIONS

SHEET
M-001

1/32" = 1'-0" 0' 16' 32' 48' | 1/16" = 1'-0" 0' 4' 8' 16' 24' | 3/32" = 1'-0" 0' 4' 8' 16' | 1/8" = 1'-0" 0' 4' 8' 12' | 1/4" = 1'-0" 0' 2' 4' 6' | 3/8" = 1'-0" 0' 1' 2' 3' 4' | 1/2" = 1'-0" 0' 6" 1' 2' 3' | 3/4" = 1'-0" 0' 6" 1' 2' | 1" = 1'-0" 0' 3" 6" 9" 1' 1.5' | 1 1/2" = 1'-0" 0' 3" 6" 9" 1' | 3" = 1'-0" 0' 1" 2" 3" 4" 5" 6" | 6" = 1'-0" 0' 1" 2" 3" | 12" = 1'-0" 0' 1" 1.5"

GRILLE, REGISTER & DIFFUSER SCHEDULE ALT 01

MARK	NECK SIZE	DESCRIPTION	MATERIAL	FINISH	VOLUME DAMPER	SHAPE	MAXIMUM △P	MAXIMUM NC	SELECTION BASED ON "PRICE"	REMARKS
A	6"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	SCDA	1 2
B	8"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	SCDA	1 2
C	10"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	SCDA	1 3
D	7" x 4"	LOUVERED SUPPLY GRILLE	STEEL	WHITE	NO	RECTANGULAR	0.1"	25	520	4
W	22" x 22"	CEILING RETURN OR EXHAUST GRILLE 45° DEFLECTION, 3/4" SPACING	STEEL	WHITE	NO	SQUARE	0.1"	25	530	1
Z	8" x 8"	CEILING RETURN OR EXHAUST GRILLE 45° DEFLECTION, 3/4" SPACING	STEEL	WHITE	NO	SQUARE	0.1"	25	530	1

REMARKS:
1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR CEILING TYPES. FOR ACOUSTIC CEILING, PROVIDE WITH 24" x 24" PANEL SUITABLE FOR MOUNTING IN LAY-IN GRID. FOR DRYWALL CEILING, PROVIDE WITH SMALL FACE AND SURFACE MOUNT FRAME.
2. PROVIDE 3-CONE, 12" x 12" FACE MOUNTED IN 2' x 2' METAL PANEL.
3. PROVIDE 4-CONE, 24" x 24" FACE MOUNTED IN 2' x 2' METAL PANEL.
4. PROVIDE WITH DOUBLE DEFLECTION LOUVERS WITH 3/4" SPACING.

OWNER-FURNISHED CONTRACTOR-INSTALLED SERIES FAN POWERED VAV BOX SCHEDULE ALT 01

UNIT NO.	INLET VALVE			FAN DATA			ELECTRIC HEATING COIL DATA					MOTOR DATA			NC RAD	NC DISCH.	REMARKS
	MAX CFM	MIN CFM	SIZE (IN.)	SIZE	CFM	ESP (IN.)	EAT (°F)	LAT (°F)	KW	MBH	V	PH	V	FLA	HP			
VAV-1.01	275	85	6	06	275	0.25	65.4	93.9	2.5	6.8	277	1	277	13.7	1/3	18	<15	1 2 3 4 5
VAV-1.02	165	60	6	06	150	0.25	64.6	93.1	1.5	5.1	277	1	277	10.1	1/3	16	<15	1 2 3 4 5
VAV-1.03	650	195	8	08	650	0.50	65.5	92.1	5.5	17.1	480	3	277	11.3	1/3	28	26	1 2 3 4 5
VAV-1.04	615	185	8	08	615	0.50	65.5	91.0	5.0	15.4	480	3	277	10.7	1/3	28	26	1 2 3 4 5
VAV-1.05	375	115	6	06	375	0.50	65.4	90.5	3.0	10.2	277	1	277	15.5	1/3	25	23	1 2 3 4 5
VAV-1.06	275	85	6	06	275	0.25	65.4	93.9	2.5	6.8	277	1	277	13.7	1/3	18	<15	1 2 3 4 5
VAV-1.07	660	200	8	08	660	0.50	65.4	91.6	5.5	17.1	480	3	277	11.3	1/3	30	26	1 2 3 4 5
VAV-1.08	1200	360	10	10	1200	0.65	65.5	91.7	10.0	30.7	480	3	277	21.1	1	38	34	1 2 3 4 5
VAV-1.09	225	70	6	06	225	0.25	65.3	93.3	2.0	6.8	277	1	277	11.9	1/3	18	<15	1 2 3 4 5
VAV-1.10	190	60	6	06	190	0.25	66.0	93.9	2.0	5.1	277	1	277	11.9	1/3	18	<15	1 2 3 4 5

REMARKS:
1. PROVIDE WITH 1" FOIL FACED INSULATION.
2. PROVIDE WITH FACTORY MOUNTED TOGGLE DISCONNECT.
3. PROVIDE WITH EC MOTOR.
4. EQUIPMENT SHALL BE OWNER-FURNISHED, CONTRACTOR INSTALLED
5. SCHEDULE INFORMATION BASED ON "TRANE" MODEL VSEG.

OWNER-FURNISHED CONTRACTOR-INSTALLED EXHAUST FAN SCHEDULE ALT 01

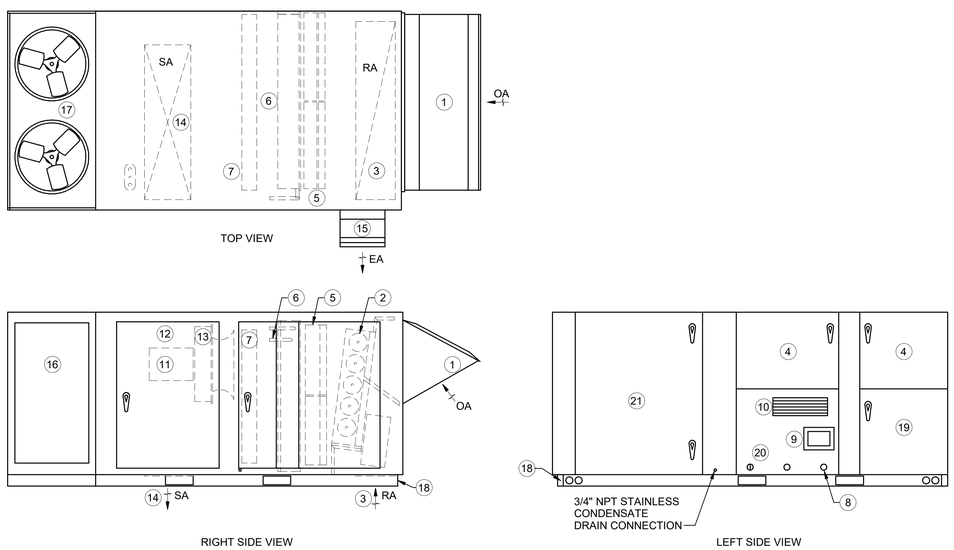
UNIT NO.	TYPE	ARRANGEMENT	WHEEL	DRIVE	CFM	ESP (IN.)	FAN RPM	MAX TIP SPEED	MOTOR DATA			CONTROL METHOD	MAX SONES	SELECTION BASED ON "GREENHECK"	REMARKS
									HP	V	PH				
EF-1	ROOF MOUNTED	DOWNBLAST	BACKWARD INCLINED CENTRIFUGAL	DIRECT	225	0.25	1550	3297	1/30	115	1	DDC	4.5	G-070-D	1 2 3 4
EF-2	ROOF MOUNTED	DOWNBLAST	BACKWARD INCLINED CENTRIFUGAL	DIRECT	150	0.25	1300	2765	1/60	115	1	DDC	2.8	G-070-D	1 2 3 4

REMARKS:
1. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. PROVIDE EC MOTOR.
4. MOUNT ON EXISTING ROOF CURB AND EXTEND DUCTWORK AS REQUIRED.

OWNER-FURNISHED CONTRACTOR-INSTALLED PACKAGED ROOFTOP SCHEDULE ALT 01

UNIT NO.	SUPPLY FAN				DX COOLING CAPACITY							GAS HEATING CAPACITY					ELECTRICAL					UNIT WEIGHT (LBS.)	REMARKS
	TOTAL CFM	MIN. OA CFM	HP	ESP (IN.)	TOTAL MBH	SENS MBH	EAT DB(°F)	EAT WB(°F)	LAT DB(°F)	LAT WB(°F)	EER	INPUT (MBH)	OUTPUT (MBH)	TURNDOWN	EAT DB (°F)	LAT DB(°F)	V	PH	MCA	MOCP	SCCR		
RTU-9	4630	695	3	2.0	178.1	118.45	78.9	67.40	55.0	54.7	12.4	250.0	202.5	10:1	60.0	99.9	460	60	48	70	5 kAIC	2455	1 2 3 4 5 6 7 8 9 10 11 12

REMARKS:
1. PROVIDE WITH MANUFACTURER'S CURB.
2. PROVIDE DOWN DISCHARGE CONFIGURATION.
3. UNIT SHALL UTILIZE REFRIGERANT R-454B.
4. PROVIDE WITH MERV-8 FILTERS
5. PROVIDE WITH SINGLE POINT POWER CONNECTION.
6. PROVIDE WITH VARIABLE SPEED SCROLL COMPRESSORS.
7. DX COOLING COIL PERFORMANCE DATA BASED ON GROSS COIL CAPACITY. ENTERING AIR TEMPERATURES BASED ON 95°F DB/78°F WB AMBIENT AND 76°F DB/65.2°F WB RETURN AIR TEMPERATURES.
8. PROVIDE WITH FACTORY-INSTALLED HAIL GUARDS TO PROTECT CONDENSER COILS.
9. PROVIDE WITH CONDENSATE OVERFLOW PROTECTION SWITCH.
10. PROVIDE WITH NON-POWERED RECEPTACLE. DISCONNECT BY DIVISION 26.
11. ROOFTOP UNIT SHALL BE OWNER-FURNISHED, CONTRACTOR-INSTALLED
12. SCHEDULE INFORMATION BASED ON "TRANE" MODEL YZK180A4SBL.



RTU COMPONENTS LIST

1. OUTSIDE AIR HOOD AND DAMPER
2. 0-100% ECONOMIZER
3. RETURN AIR CONNECTION AND DAMPER
4. CONTROLS BOX SECTION ACCESS PANEL
5. FILTER SECTION
6. DIRECT EXPANSION COOLING COIL
7. GAS HEATING COIL
8. 1 1/2"ø GAS ENTRY
9. FLUE OUTLET
10. COMBUSTION AIR INLETS
11. BLOWER MOTOR
12. VARIABLE FREQUENCY DRIVE
13. SUPPLY FAN
14. SUPPLY AIR CONNECTION AND DAMPER
15. BAROMETRIC RELIEF HOOD
16. COMPRESSOR SECTION
17. CONDENSER FANS AND MICROCHANNEL CONDENSER COILS
18. UNIT BASE RAIL
19. CONDENSER COIL ACCESS
20. HEATING SECTION ACCESS
21. EVAPORATOR SECTION ACCESS PANEL

RTU COMPONENT DIAGRAMS ALT 01

NOT TO SCALE

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DATE	01/23/2025
PROJECT	21222-21
DESIGNED	CEP
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COMMONWEALTH OF VIRGINIA
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01.23.2025
PROFESSIONAL ENGINEER

PROJECT: SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
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DRAWING: MECHANICAL SCHEDULES

SHEET
M-002

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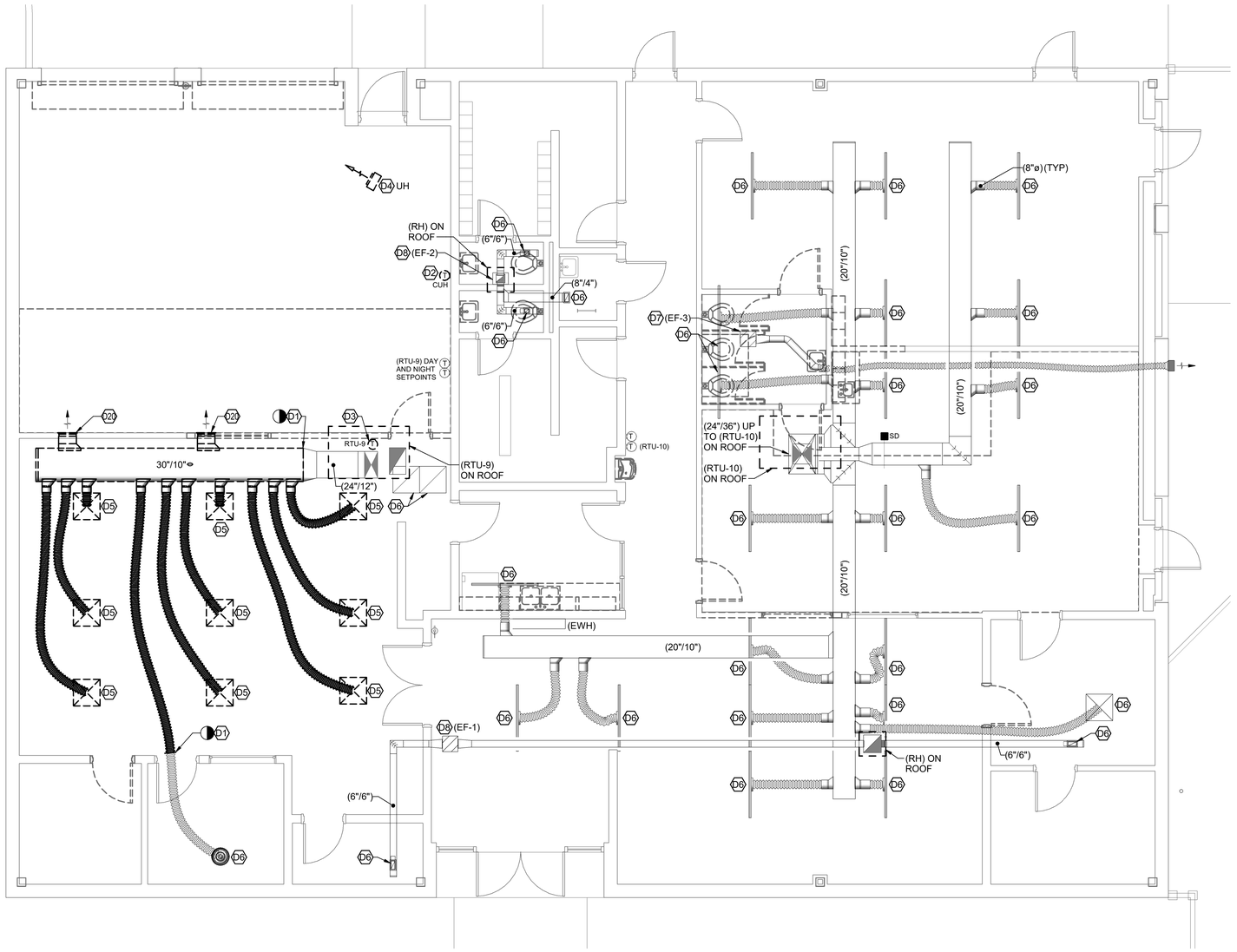
DEMOLITION NOTES	
NO.	DESCRIPTION
D1	DISCONNECT AND REMOVE EXISTING DUCTWORK TO POINT INDICATED AS REQUIRED FOR THE INSTALLATION OF NEW WORK. TEMPORARILY COVER OPEN ENDS OF DUCTWORK WITH 6-MIL POLYETHYLENE SHEATHING DURING CONSTRUCTION. PROVIDE TEMPORARY SUPPORTS FOR REMAINING DUCTWORK WHERE REQUIRED.
D2	REMOVE THERMOSTAT/TEMPERATURE SENSOR, WIRING, AND ACCESSORIES COMPLETE.
D3	TEMPORARILY REMOVE EXISTING THERMOSTAT/TEMPERATURE SENSOR, WIRING, AND ACCESSORIES COMPLETE. STORE FOR REINSTALLATION IN NEW LOCATION IN NEW WORK.
D4	DISCONNECT AND REMOVE HORIZONTAL UNIT HEATER, SUPPORTS, CONTROLS, AND ACCESSORIES COMPLETE.
D5	DISCONNECT AND TEMPORARILY REMOVE SUPPLY AIR DIFFUSER. CLEAN AND STORE FOR REINSTALLATION IN NEW LOCATION IN NEW WORK.
D6	CLEAN EXISTING REGISTER, DIFFUSER, OR GRILLE TO REMAIN.
D7	CLEAN EXISTING CEILING MOUNTED EXHAUST FAN TO REMAIN.
D8	EXHAUST FAN EXISTING LOCATION APPROXIMATED AND ASSUMED TO BE INLINE CONFIGURATION BASED ON LIMITED NON-INVASIVE FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY EXHAUST FAN LOCATION IN THE FIELD TO FINALIZE DEMOLITION EXTENTS REQUIRED.
D18	EXISTING DUCTWORK AND PIPING SIZES AND LOCATIONS SHOWN BASED ON LIMITED NON-INVASIVE FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY EXISTING SIZES PRIOR TO PURCHASING ANY DUCTWORK TO CONNECT TO EXISTING IN THE NEW WORK PHASE OF CONSTRUCTION.
D20	DISCONNECT AND REMOVE SIDEWALL DIFFUSER COMPLETE.



OVERALL DEMOLITION FLOOR PLAN - MECHANICAL D18

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

MARK	DATE	REVISIONS BY	DESCRIPTION

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	CEP
DRAWN	SLS
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DRAWING: OVERALL DEMOLITION FLOOR PLAN - MECHANICAL

SHEET
MD-101

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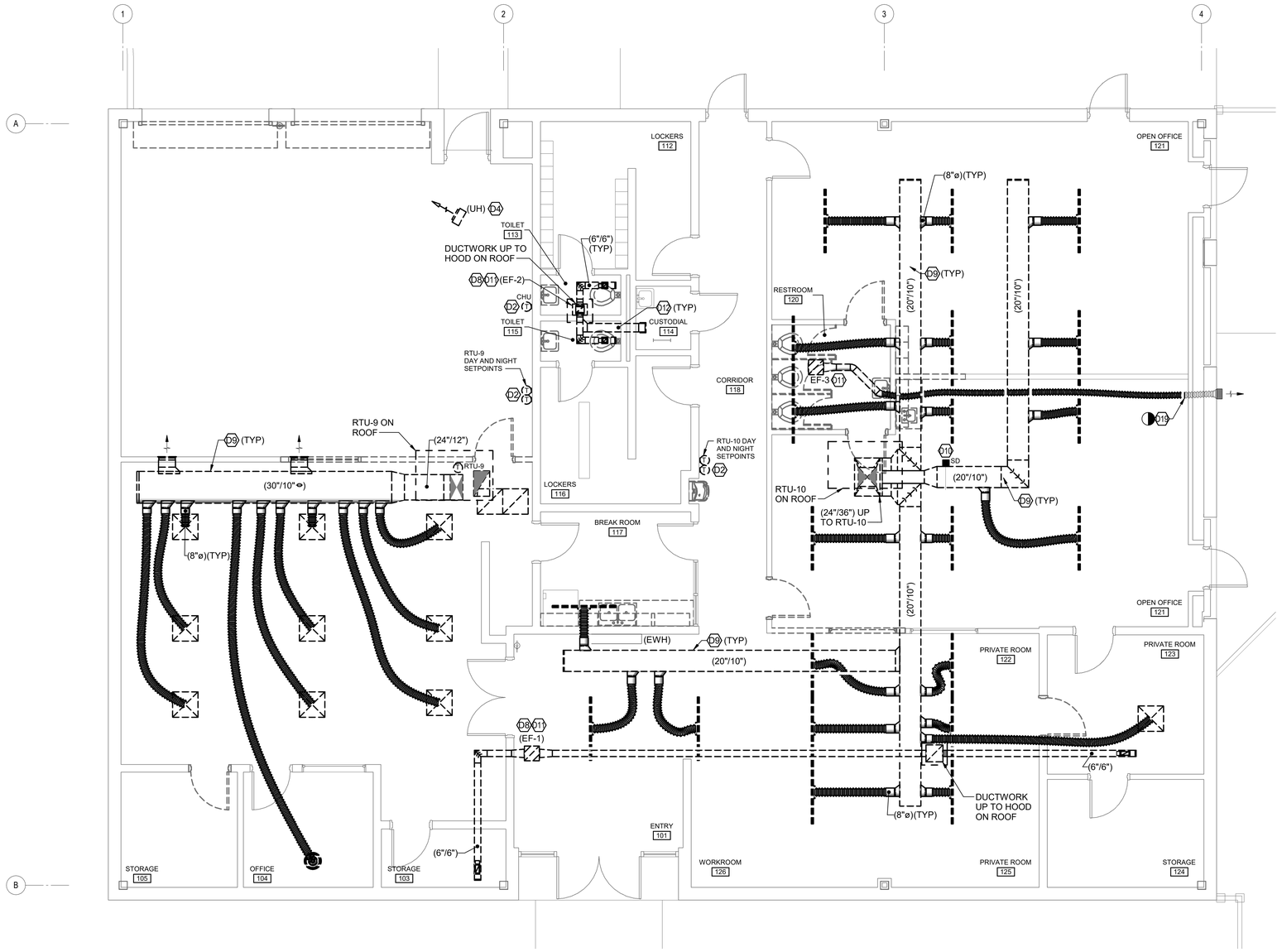
DEMOLITION NOTES	
NO.	DESCRIPTION
D2	REMOVE THERMOSTAT/TEMPERATURE SENSOR, WIRING, AND ACCESSORIES COMPLETE.
D4	DISCONNECT AND REMOVE HORIZONTAL UNIT HEATER, SUPPORTS, CONTROLS, AND ACCESSORIES COMPLETE.
D8	EXHAUST FAN EXISTING LOCATION APPROXIMATED AND ASSUMED TO BE INLINE CONFIGURATION BASED ON LIMITED NON-INVASIVE FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY EXHAUST FAN LOCATION IN THE FIELD TO FINALIZE DEMOLITION EXTENTS REQUIRED.
D9	FULLY DISCONNECT AND REMOVE EXISTING DUCTWORK, ACCESSORIES, AND SUPPORTS COMPLETE UP TO ROOF TOP UNIT CONNECTION.
D10	DISCONNECT AND REMOVE DUCT MOUNTED SMOKE DETECTOR, WIRING, CONTROLS, AND ACCESSORIES COMPLETE.
D11	DISCONNECT AND REMOVE EXHAUST FAN, WIRING, CONTROLS, SUPPORTS, AND ACCESSORIES COMPLETE.
D12	DISCONNECT AND REMOVE EXISTING EXHAUST DUCTWORK UP THROUGH ROOF COMPLETE INCLUDING GRILLES, SUPPORTS, AND ACCESSORIES.
D18	EXISTING DUCTWORK AND PIPING SIZES AND LOCATIONS SHOWN BASED ON LIMITED NON-INVASIVE FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY EXISTING SIZES PRIOR TO PURCHASING ANY DUCTWORK TO CONNECT TO EXISTING IN THE NEW WORK PHASE OF CONSTRUCTION.
D19	REMOVE EXHAUST DUCTWORK, SUPPORTS, AND ACCESSORIES TO POINT INDICATED. TEMPORARILY COVER OPEN ENDS OF DUCTWORK WITH 6-MIL POLYETHYLENE SHEATHING DURING CONSTRUCTION.



OVERALL DEMOLITION FLOOR PLAN - MECHANICAL ALT 01 D18

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

MARK	DATE	REVISIONS	BY
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DATE	01/23/2025		
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DRAWING: OVERALL DEMOLITION FLOOR PLAN - MECHANICAL ALT 01

SHEET
MD-201

1/22/2025 8:59:09 AM Autodesk Docs://21222-21 SPS Pruden Daycare/Pruden Daycare - Mechanical - R24.rvt

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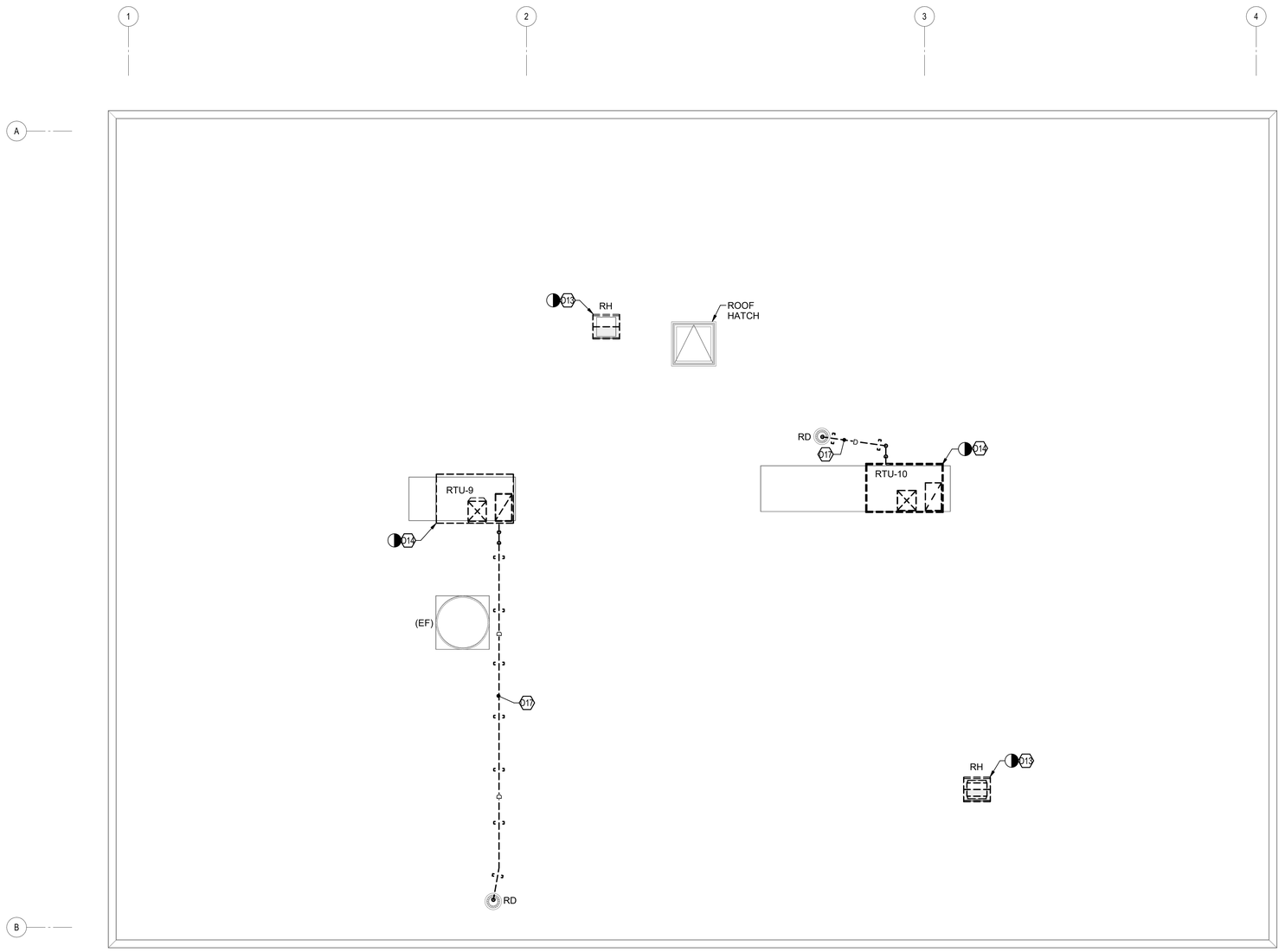
DEMOLITION NOTES	
NO.	DESCRIPTION
D13	REMOVE EXISTING ROOF MOUNTED EXHAUST HOOD AND ACCESSORIES COMPLETE. ROOF CURB TO REMAIN. PROVIDE 1/2" PLYWOOD SHEATHING TEMPORARY COVER AND WATERTIGHT TARP FOR REMAINING DUCT OPENING UNTIL NEW UNIT IS PLACED.
D14	REMOVE EXISTING ROOFTOP AIR HANDLING UNIT, EXISTING CURB AND ADAPTER, CONTROLS, AND ACCESSORIES COMPLETE. PROVIDE 1/2" PLYWOOD TEMPORARY COVER AND WATERTIGHT TARP FOR REMAINING ROOF OPENING UNTIL NEW UNIT IS PLACED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ROOF WORK REQUIRED.
D17	REMOVE EXISTING CONDENSATE DRAIN PIPING ON ROOF AND SUPPORTS COMPLETE.
D18	EXISTING DUCTWORK AND PIPING SIZES AND LOCATIONS SHOWN BASED ON LIMITED NON-INVASIVE FIELD INVESTIGATION. CONTRACTOR SHALL VERIFY EXISTING SIZES PRIOR TO PURCHASING ANY DUCTWORK TO CONNECT TO EXISTING IN THE NEW WORK PHASE OF CONSTRUCTION.



OVERALL DEMOLITION ROOF PLAN - MECHANICAL ALT 01 D16
SCALE: 1/4" = 1'-0"

MARK	DATE	REVISIONS	BY	DESCRIPTION

DATE	01/23/2025
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DRAWING: OVERALL DEMOLITION ROOF PLAN - MECHANICAL ALT 01

SHEET
MD-301

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"

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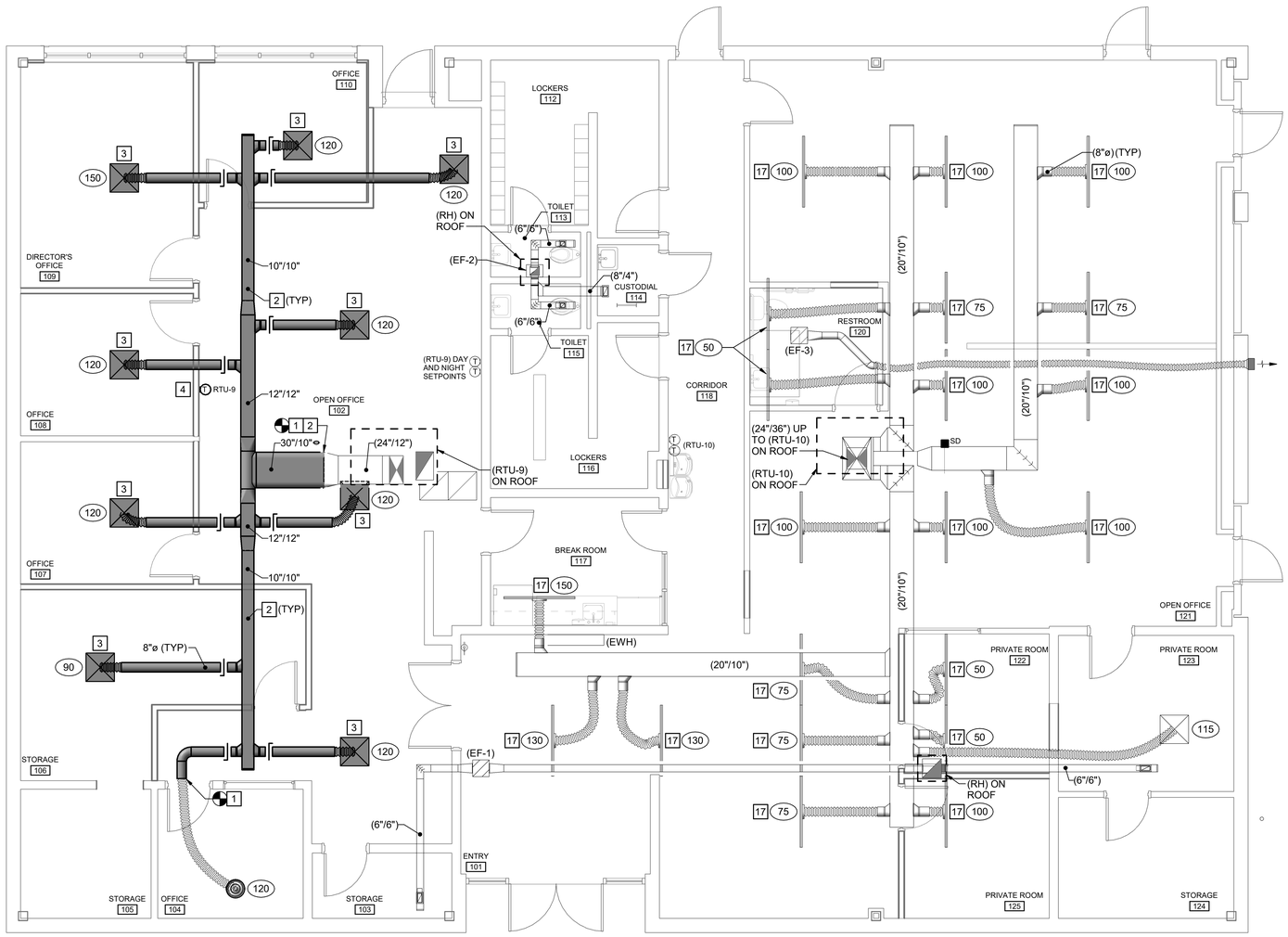
NEW WORK NOTES ☐	
NO.	DESCRIPTION
1	CONNECT TO EXISTING DUCTWORK WHERE INDICATED.
2	PROVIDE NEW DUCTWORK, SUPPORTS, AND ACCESSORIES COMPLETE.
3	REINSTALL DIFFUSER SAVED DURING DEMOLITION AND CONNECT TO NEW DUCTWORK. BALANCE TO THE AIRFLOW INDICATED. AIRFLOWS DETERMINED BASED ON TOTAL AIRFLOW VALUES STATED IN EXISTING ROOFTOP UNIT MANUFACTURER'S AVAILABLE DATA. IF EXISTING UNIT CAPABILITIES DIFFER FROM STATED AIRFLOWS, CONTRACTOR SHALL SUBMIT AN RFI WITH ACTUAL UNIT AIRFLOW CAPABILITIES AND THE ENGINEER WILL PROVIDE UPDATED BALANCING DIRECTION.
4	REINSTALL THERMOSTAT/TEMPERATURE SENSOR SAVED DURING DEMOLITION, WIRING, CONTROLS, AND ACCESSORIES COMPLETE. PROVE PROPER CALIBRATION AND INTEGRATION WITH UNIT CONTROLS AFTER REINSTALLATION.
17	EXISTING SYSTEM IS TO REMAIN AND SHALL BE RE-BALANCED TO AIRFLOW INDICATED. AIRFLOWS DETERMINED BASED ON TOTAL AIRFLOW VALUES STATED IN EXISTING ROOFTOP UNIT MANUFACTURER'S AVAILABLE DATA. IF EXISTING UNIT CAPABILITIES DIFFER FROM STATED AIRFLOWS, CONTRACTOR SHALL SUBMIT AN RFI WITH ACUTAL UNIT AIRFLOW CAPABILITIES AND THE ENGINEER WILL PROVIDE UPDATED BALANCING DIRECTION.



OVERALL NEW WORK FLOOR PLAN - MECHANICAL

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

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	01/23/2025
PROJECT	21222-21
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DRAWING: OVERALL NEW WORK FLOOR PLAN - MECHANICAL

SHEET
M-101

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32" = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

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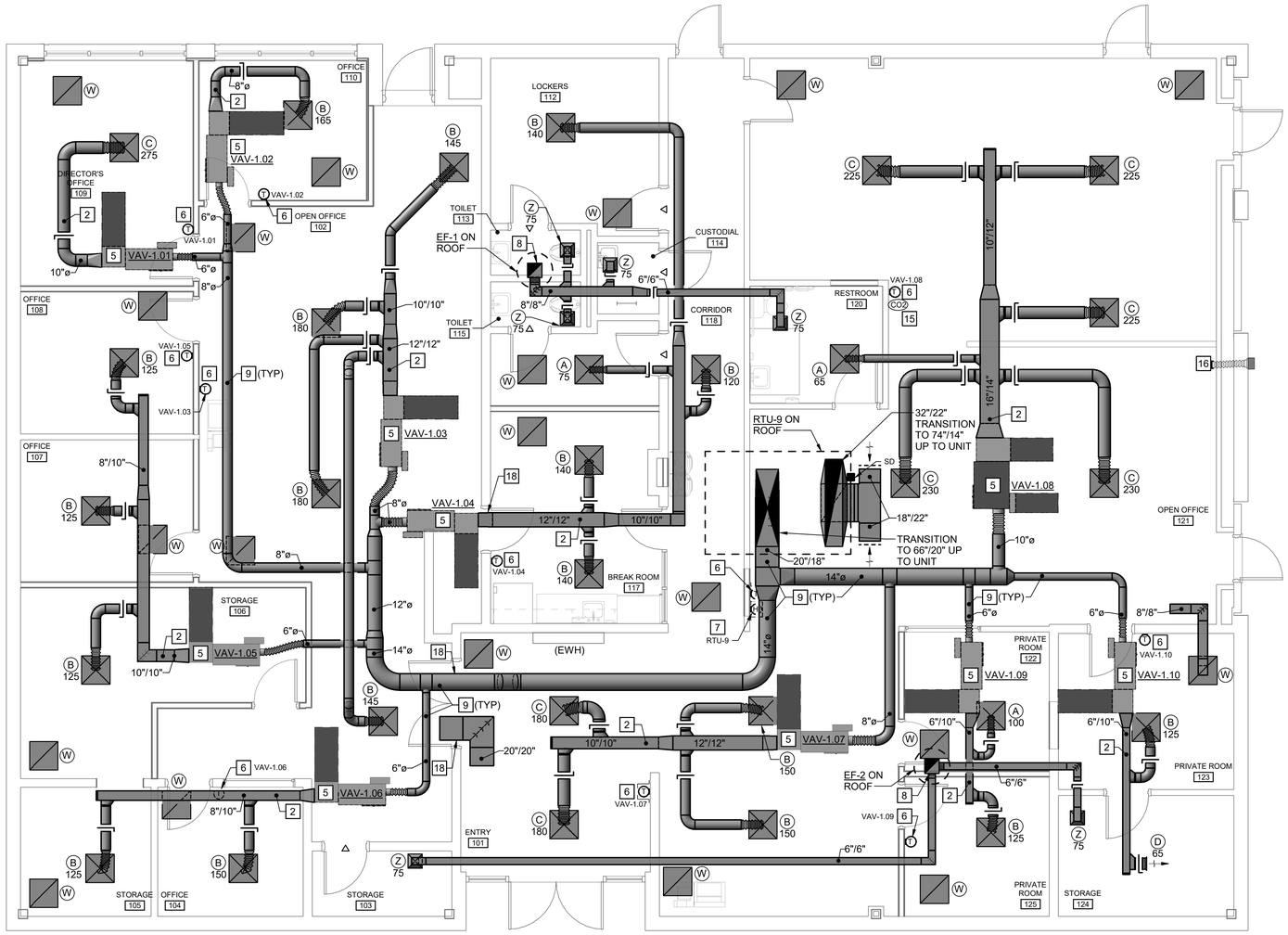
NEW WORK NOTES ☐	
NO.	DESCRIPTION
2	PROVIDE NEW DUCTWORK, SUPPORTS, AND ACCESSORIES COMPLETE.
5	INSTALL SERIES FAN POWERED VARIABLE AIR VOLUME (VAV) TERMINAL BOX, CONTROLS, SUPPORTS, AND ACCESSORIES COMPLETE. MAINTIAN ALL MANUFACTURER REQUIRED CLEARANCES. VAV BOXES ARE TO BE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
6	PROVIDE THERMOSTAT/TEMPERATURE SENSOR, WIRING, AND CONTROLS COMPLETE. PROVIDE WITH CLEAR PLASTIC LOCKABLE COVER WHERE INDICATED.
7	PROVIDE HUMIDISTAT/HUMIDITY SENSOR, WIRING, AND CONTROLS COMPLETE. PROVIDE WITH CLEAR PLASTIC LOCKABLE COVER WHERE INDICATED.
8	PROVIDE EXHAUST DUCTWORK, GRILLES, SUPPORTS, AND ACCESSORIES COMPLETE UP THROUGH EXISTING ROOF PENETRATION TO NEW DOWNBLAST EXHAUST FAN MOUNTED ON THE ROOF. TRANSITION DUCTWORK IN VERTICAL TO ROOFTOP PENETRATION AS REQUIRED.
9	PROVIDE MEDIUM PRESSURE DUCTWORK TO VAV BOX INLETS, SUPPORTS, AND ACCESSORIES COMPLETE.
15	PROVIDE CO2 SENSOR, CONTROLS, AND ACCESSORIES COMPLETE.
16	CAP EXISTING EXHAUST DUCTWORK WHERE DISCONNECTED IN DEMOLITION BEFORE WALL PENETRATION.
18	DUCT PENETRATION THROUGH EXISTING CMU WALL. REFER TO STRUCTURAL DRAWINGS FOR "TYPICAL LINTEL IN EXISTING CMU WALL DETAIL".



OVERALL NEW WORK FLOOR PLAN - MECHANICAL ALT 01

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

DESCRIPTION	BY	DATE	MARK
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DRAWING
OVERALL NEW WORK FLOOR PLAN - MECHANICAL ALT 01

SHEET
M-201

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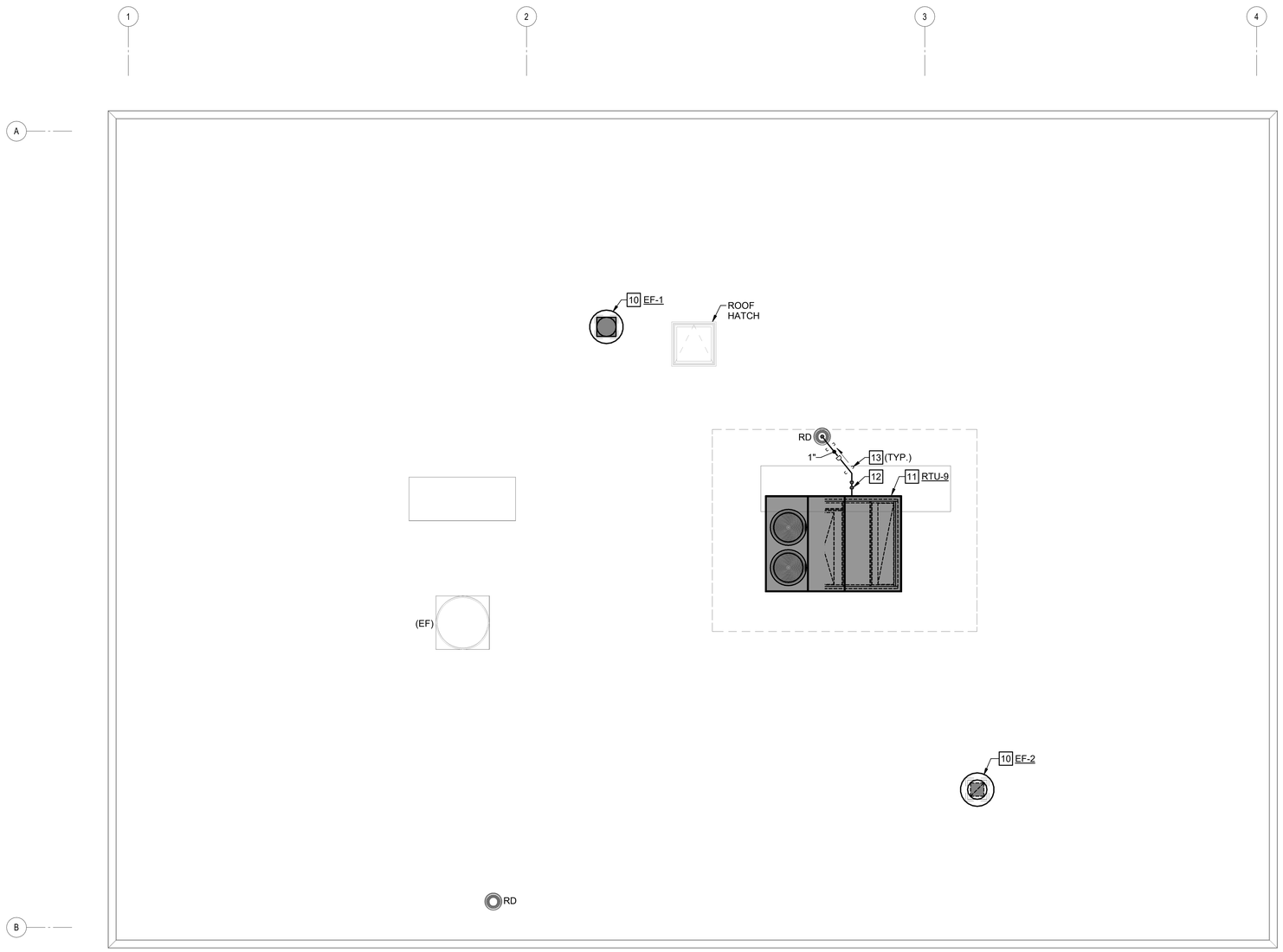
NEW WORK NOTES ☐	
NO.	DESCRIPTION
10	INSTALL EXHAUST FAN ON ROOF. REFER TO "EXHAUST FAN ON ROOF DETAIL" ON DRAWING M401. PROVIDE AND INSTALL ADAPTER CURB AND EXTEND DUCTWORK WHERE NEEDED. EXHAUST FANS ARE TO BE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
11	INSTALL ROOFTOP AIR HANDLING UNIT, CONTROLS, AND ACCESSORIES COMPLETE. REFER TO "ROOFTOP MOUNTING UNIT DETAIL" ON DRAWING M401 FOR STANDARD ROOF CURB INSTALATION DETAILS AND ARCHITECTURAL DRAWINGS FOR FLASHING DETAILS. ROOFTOP AIR HANDLING UNIT IS TO BE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
12	REFER TO "COIL CONDENSATE TRAP DETAIL" ON DRAWING M401.
13	PROVIDE CONDENSATE DRAIN PIPING AND SUPPORTS COMPLETE. REFER TO "PIPING ON ROOF SUPPORT DETAIL" ON DRAWING M401. ROUTE TO NEAREST ROOF DRAIN.



OVERALL NEW WORK ROOF PLAN - MECHANICAL ALT 01

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

MARK	DATE	REVISIONS	BY	DESCRIPTION

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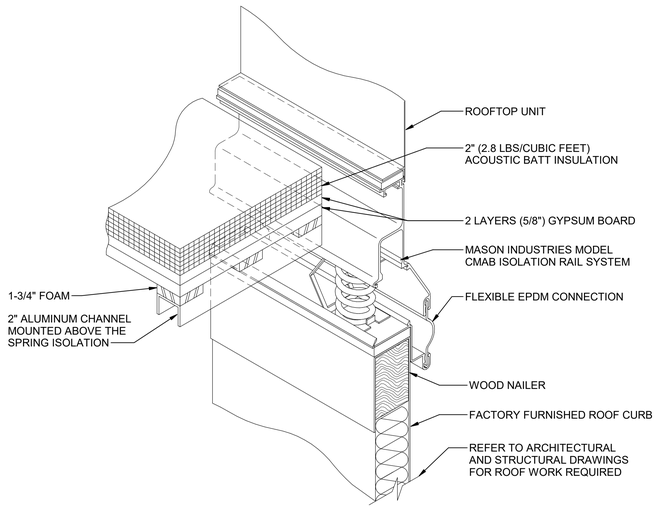
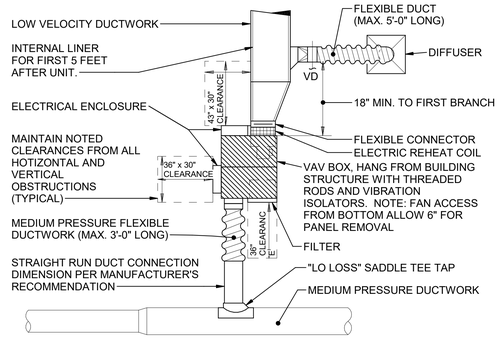
DRAWING: OVERALL NEW WORK ROOF PLAN - MECHANICAL ALT 01

SHEET
M-301



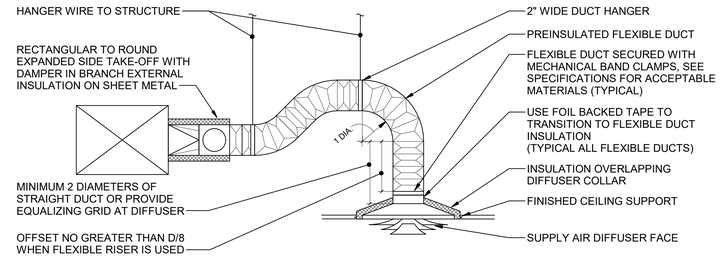
ROOFTOP UNIT MOUNTING DETAIL

NOT TO SCALE



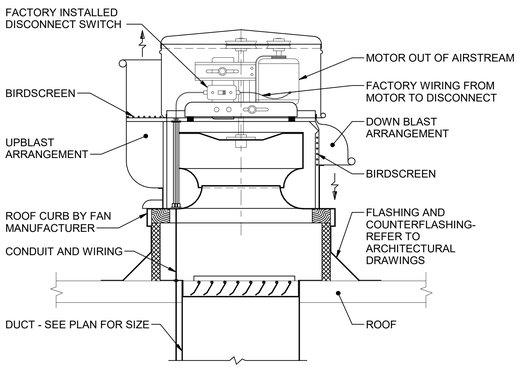
TYPICAL SERIES FAN POWERED VAV BOX (WITH ELECTRIC REHEAT COIL) INSTALLATION DETAIL

NOT TO SCALE



TYPICAL CEILING DIFFUSER INSTALLATION DETAIL

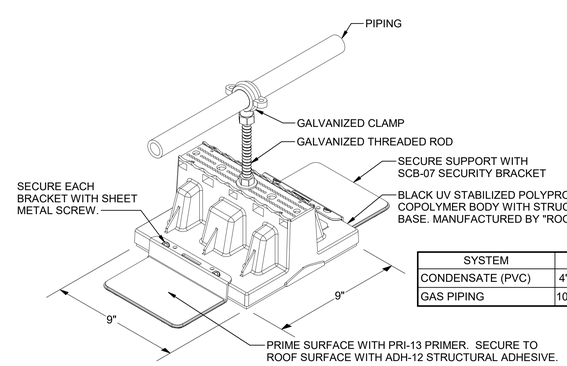
NOT TO SCALE



NOTES:
1. REFER TO EXHAUST FAN SCHEDULE FOR REQUIRED DISCHARGE ARRANGEMENT.
2. BELT - DRIVE SHOWN; DIRECT - DRIVE SIMILAR.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF ATTACHMENT DETAILS AND REQUIREMENTS.

EXHAUST FAN DETAIL

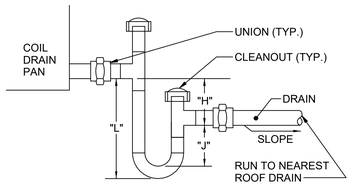
NOT TO SCALE



SYSTEM	SPACING
CONDENSATE (PVC)	4'-0" ON CENTERS
GAS PIPING	10'-0" ON CENTERS

PIPING ON ROOF SUPPORT DETAIL

NOT TO SCALE



NOTES:
1. "H" = (1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE) + 1".
2. "J" = HALF OF H.
3. "L" = H + J + PIPE DIAMETER + INSULATION.
4. SIZE TRAP IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

COIL CONDENSATE TRAP DETAIL

NOT TO SCALE (NEGATIVE PRESSURE)

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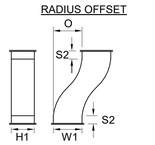
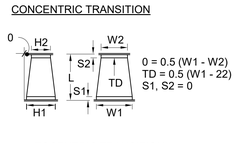
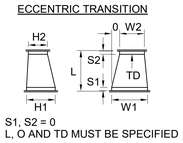
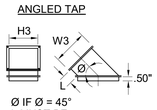
DRAWING: MECHANICAL DETAILS

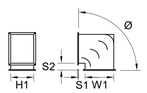
SHEET
M-401

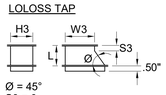


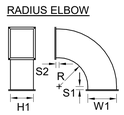


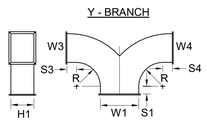






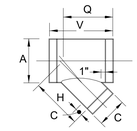


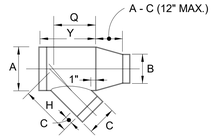


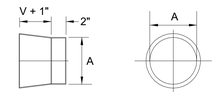


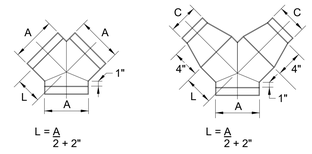
MEDIUM-PRESSURE SINGLE-WALL RECTANGULAR DUCTWORK DETAILS

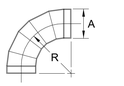
NOT TO SCALE

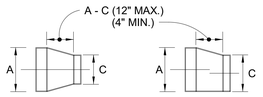


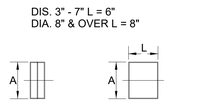


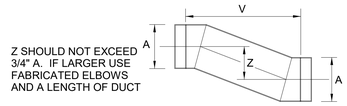










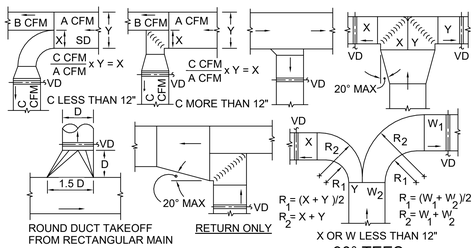


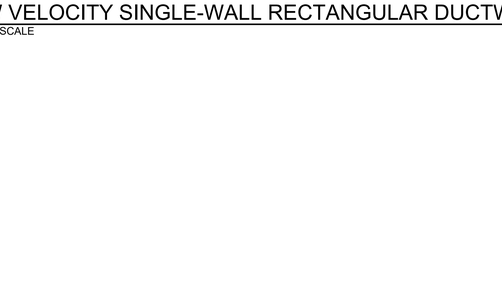
MEDIUM PRESSURE DUCTWORK:

1. ALL MEDIUM PRESSURE DUCTWORK FROM AIR HANDLING UNIT DISCHARGE TO INLET OF VAV TERMINALS SHALL BE 3" PRESSURE CLASS CONSTRUCTION
2. ALL MEDIUM PRESSURE DUCTWORK SHALL BE SEALED TO MEET THE REQUIREMENTS OF SEAL CLASS "A".
3. ALL MEDIUM PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS UNLESS OTHERWISE NOTED.
4. ALL MEDIUM PRESSURE DUCTWORK SHALL BE LEAK TESTED AS SPECIFIED.

MEDIUM PRESSURE DOUBLE-WALL ROUND-DUCTWORK DETAILS

NOT TO SCALE





LOW VELOCITY SINGLE-WALL RECTANGULAR DUCTWORK DETAIL

NOT TO SCALE

DUCTWORK CONSTRUCTION REQUIREMENTS

SYSTEM	PRESSURE CLASS	SEAL CLASS	LEAKAGE CLASS
SUPPLY AIR	+ 1.5" W.G.	CLASS A	RECTANGULAR - 4 ROUND - 2
RETURN AIR	- 1.0" W.G.	CLASS B	RECTANGULAR - 8 ROUND - 4
EXHAUST AIR	- 1.0" W.G.	CLASS B	RECTANGULAR - 8 ROUND - 4
TRANSFER AIR	N/A	NOT REQUIRED	-

NOTE:
1. CONSTRUCT ALL DUCTWORK IN ACCORDANCE WITH "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS.
2. PROVIDE VOLUME DAMPERS FOR EACH BRANCH DUCT SERVING SUPPLY, RETURN OR EXHAUST AIR TERMINAL.
3. ALL RECTANGULAR AND MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES.
4. REFER TO SMACNA HVAC DUCT LEAKAGE MANUAL FIGURE 5-1 FOR LEAKAGE RATES.

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		BY

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PROJECT	21222-21
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DRAWN	Author
CHECKED	Checker

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01.23.2025
PROFESSIONAL ENGINEER

PROJECT
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SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING
MECHANICAL DETAILS

SHEET
M-402

1/32" = 1'-0" 1/16" = 1'-0" 3/32" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 3/8" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" 6" = 1'-0" 12" = 1'-0"

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VAV PACKAGED ROOFTOP UNIT SEQUENCE OF OPERATION ALT 01

(RTU-9)

A. THE BUILDING'S DDC CONTROLLER SHALL COMMAND THE UNIT INTO OCCUPIED/UNOCCUPIED MODE AND MONITOR ALL POINTS OF CONTROL DESCRIBED HEREIN. THE UNIT'S CONTROLLER SHALL START AND STOP THE SUPPLY FAN, CONTROL THE OUTSIDE AIR DAMPER, CONTROL THE RECIRCULATION AIR DAMPER, MODULATE THE COMPRESSORS FOR DIRECT EXPANSION COOLING, AND MODULATE THE GAS HEAT.

B. MORNING WARMUP: THE UNIT MOUNTED CONTROLLER SHALL DETERMINE MORNING WARMUP TIME BASED ON INITIAL OCCUPANCY COMMAND FROM THE BUILDING OCCUPANCY SCHEDULE. IF THE RETURN AIR TEMPERATURE IS BELOW THE MORNING WARMUP TEMPERATURE SETPOINT OF 70°F (ADJ.), THE WARMUP MODE SHALL BE INITIATED AND HEATING SHALL BE ENABLED AND MODULATED UNTIL THE SPACE TEMPERATURE REACHES 71°F (ADJ.) AND THE DDC DISABLES THE WARMUP MODE. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING WARM-UP MODE.

C. MORNING COOLDOWN: THE UNIT MOUNTED CONTROLLER SHALL DETERMINE MORNING COOLDOWN TIME BASED ON INITIAL OCCUPANCY COMMAND FROM THE BUILDING OCCUPANCY SCHEDULE. IF THE RETURN AIR TEMPERATURE IS ABOVE THE MORNING COOLDOWN TEMPERATURE SETPOINT OF 76°F (ADJ.), THE COOLDOWN MODE SHALL BE ENABLED AND THE DX COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE REACHES 74°F (ADJ.), THE DX COOLING SHALL BE DISABLED AND THE DDC SHALL DISABLE THE COOLDOWN MODE. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING COOLDOWN MODE.

D. OCCUPIED:

1. WHEN THE ROOFTOP UNIT IS INDEXED TO THE OCCUPIED MODE, THE UNIT MOUNTED CONTROLLER SHALL ENABLE THE SUPPLY FAN. ONCE THE SUPPLY AIR FAN OPERATION HAS BEEN ESTABLISHED AS SENSED BY ITS RESPECTIVE PROOF OF FLOW SWITCH, THE UNIT MOUNTED CONTROLLER SHALL OPEN THE OUTSIDE AIR DAMPER TO ITS MINIMUM POSITION, AND PROPORTIONALLY CLOSE THE RETURN AIR DAMPER.

2. COOLING: ON A RISE ABOVE THE PROGRAMMED SPACE COOLING TEMPERATURE SET POINT OF 74°F (ADJ.), THE UNIT SHALL BEGIN TO STAGE THE COMPRESSOR ON TO MAINTAIN THE COOLING SUPPLY AIR TEMPERATURE OF 55°F (ADJ.). ON A FALL BELOW THE PROGRAMMED SPACE TEMPERATURE SET POINT, THE REVERSE SHALL OCCUR.

3. HEATING: ON A FALL BELOW THE SPACE HEATING TEMPERATURE SETPOINT OF 70°F (ADJ.), THE UNIT MOUNTED CONTROLLER SHALL ENABLE AND MODULATE THE GAS VALVE AND HEATING COIL TO MAINTAIN THE SPACE HEATING TEMPERATURE SETPOINT. ON A RISE ABOVE THE PROGRAMMED SPACE HEATING TEMPERATURE SETPOINT, THE REVERSE SHALL OCCUR.

4. ON A RISE IN SPACE RELATIVE HUMIDITY ABOVE THE SPACE RELATIVE HUMIDITY SETPOINT OF 60% RH (ADJ.), IF AND ONLY IF THE SPACE TEMPERATURE SETPOINT IS SATISFIED, THE OUTSIDE AIR DAMPER SHALL MODULATE TO ITS MINIMUM POSITION (IF IN ECONOMIZER MODE), THE RETURN AIR DAMPER SHALL MODULATE PROPORTIONALLY OPEN AND THE DEHUMIDIFICATION CONTROL SEQUENCE OF OPERATION SHALL BE ENABLED. THE SUPPLY FAN SHALL MODULATE TO MAXIMUM SPEED. THE DX COOLING SHALL BE ENABLED AND CONTROLLED TO MAINTAIN THE SATURATION TEMPERATURE SETPOINT OF 53°F (ADJ.). ON A FALL BELOW THE SPACE RELATIVE HUMIDITY SETPOINT, THE REVERSE SHALL OCCUR. THE VAV BOX ELECTRIC REHEAT COILS SHALL MODULATE TO MAINTAIN THEIR SPACE TEMPERATURE SETPOINTS.

5. WHEN THE OUTSIDE AIR TEMPERATURE IS 55°F (ADJ.) OR BELOW, AND THE SPACE TEMPERATURE IS ABOVE ITS RESPECTIVE PROGRAMMED COOLING TEMPERATURE SET POINT, THE COMPRESSOR SHALL BE DISABLED AND THE OUTSIDE AND RETURN AIR DAMPERS SHALL BE MODULATED OPEN AND CLOSED RESPECTIVELY TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. ON A FALL BELOW THE SPACE TEMPERATURE SETPOINT, THE OUTSIDE AIR DAMPER SHALL MODULATE TO ITS MINIMUM POSITION AND THE RETURN AIR DAMPER SHALL MODULATE PROPORTIONALLY OPEN. WHEN THE OUTSIDE AIR TEMPERATURE RISES ABOVE 55°F, THE UNIT SHALL REVERT TO ITS COOLING AND/OR HEATING SEQUENCES.

E. UNOCCUPIED:

1. WHEN THE ROOFTOP UNIT IS INDEXED TO THE UNOCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL MODULATE FULLY CLOSED, THE RETURN AIR DAMPER SHALL MODULATE FULLY OPEN AND THE SUPPLY AIR FAN SHALL BE DISABLED.

2. COOLING: ON A RISE ABOVE THE PROGRAMMED HIGH LIMIT SPACE TEMPERATURE SET POINT OF 80°F (ADJ.), THE SUPPLY AIR FAN SHALL BE ENABLED. AFTER THE SUPPLY AIR FAN OPERATION IS ESTABLISHED BY ITS RESPECTIVE CURRENT SENSING RELAY, THE DX COOLING SHALL BE ENABLED TO MAINTAIN THE HIGH LIMIT SPACE TEMPERATURE SET POINT. ON A FALL BELOW THE UNOCCUPIED HIGH LIMIT SPACE TEMPERATURE SET POINT, THE DX COOLING SHALL BE DISABLED AND THE SUPPLY AIR FAN SHALL BE DISABLED.

3. HEATING: ON A FALL BELOW THE PROGRAMMED LOW LIMIT SPACE TEMPERATURE SET POINT OF 60°F (ADJ.), THE SUPPLY AIR FAN SHALL BE ENABLED. AFTER THE SUPPLY AIR FAN OPERATION IS ESTABLISHED BY ITS RESPECTIVE CURRENT SENSING RELAY, THE UNIT MOUNTED CONTROLLER SHALL ENABLE AND MODULATE THE GAS VALVE AND HEATING COIL TO MAINTAIN THE LOW LIMIT SPACE TEMPERATURE SETPOINT. ON A RISE ABOVE THE UNOCCUPIED LOW LIMIT SPACE TEMPERATURE SET POINT, THE REVERSE SHALL OCCUR.

4. DEHUMIDIFICATION: ON A RISE IN SPACE RELATIVE HUMIDITY ABOVE THE SPACE RELATIVE HUMIDITY SETPOINT OF 60% RH (ADJ.), IF AND ONLY IF THE SPACE TEMPERATURE SETPOINT IS SATISFIED, THE SUPPLY AIR FAN SHALL BE ENABLED AND MODULATED TO MAXIMUM SPEED. AFTER THE SUPPLY AIR FAN OPERATION IS ESTABLISHED BY ITS RESPECTIVE CURRENT SENSING RELAY, THE DX COOLING SHALL BE ENABLED AND CONTROLLED TO MAINTAIN THE SATURATION TEMPERATURE SETPOINT OF 53°F (ADJ.). THE VAV BOX ELECTRIC REHEAT COILS SHALL MODULATE TO MAINTAIN THEIR SPACE TEMPERATURE SETPOINTS.

G. SINGLE ZONE VARIABLE AIR VOLUME: IN THE COOLING MODE ONLY, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY BETWEEN A SPECIFIED MINIMUM AND MAXIMUM SPEED. THE UNIT CONTROLLER SHALL MODULATE THE SUPPLY FAN BETWEEN THE MINIMUM AND MAXIMUM BASED ON HOW NEAR OR FAR THE SPACE TEMPERATURE IS AWAY FROM SETPOINT. THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM OUTSIDE AIR FLOW AS SENSED BY THE AIRFLOW MONITORING STATION. THE DAMPER SHALL MODULATE BASED ON THE SPACE CARBON DIOXIDE LEVEL ACCORDING TO THE DCV SEQUENCE.

H. CARBON DIOXIDE (CO2) DEMAND CONTROLLED VENTILATION: DURING THE OCCUPIED MODE, THE UNIT MOUNTED CONTROLLER SHALL MONITOR SPACE CARBON DIOXIDE LEVELS AND CONTROL THE POSITION OF THE OUTSIDE AIR DAMPER AND RECIRCULATING AIR DAMPER TO MAINTAIN CO2 SETPOINT. INITIAL SETPOINT SHALL BE DETERMINED BY THE BAS CONTRACTOR AND SHALL BE 500 PPM ABOVE THE MEASURED OUTSIDE AIR LEVELS. ON A RISE IN CO2 LEVELS ABOVE SETPOINT, THE UNIT MOUNTED CONTROLLER SHALL OPEN THE OUTSIDE AIR DAMPER, PROPORTIONALLY CLOSING THE RECIRCULATION AIR DAMPER TO SUPPLY AN INCREASING AMOUNT OF OUTSIDE AIR. ON A FALL IN CO2 LEVELS BELOW SETPOINT, THE DDC CONTROLLER SHALL CLOSE THE OUTSIDE AIR DAMPER. THE MINIMUM AMOUNT OF OUTSIDE AIR SHALL NOT BE LESS THAN 10% OF THE TOTAL SUPPLY AIR VOLUME. THE MAXIMUM AMOUNT OF OUTSIDE AIR SHALL BE THE VOLUME LISTED IN THE RTU SCHEDULE. THE UNIT MOUNTED CONTROLLER SHALL ACCOMPLISH THIS SEQUENCE BY STAGING THE UNIT THROUGH ITS NORMAL SEQUENCES AS IDENTIFIED IN THE PREVIOUS PARAGRAPHS. ON A CONTINUED RISE IN CO2 LEVELS ABOVE SETPOINT, THE UNIT MOUNTED CONTROLLER SHALL PLACE THE UNIT INTO CO2 DEMAND VENTILATION CONTROL. ON A FALL IN CO2 LEVELS BELOW SETPOINT, THE BAS SHALL RETURN THE UNIT TO ITS PREVIOUS OPERATING MODE.

AN ALARM SHALL BE GENERATED WHEN THE CO2 EXCEEDS 5000 PPM (ADJ.) INDICATING "SENSOR OUT OF CALIBRATION, PLEASE RECALIBRATE OR REPLACE SENSOR". THE DEMAND CONTROLLED VENTILATION SEQUENCE SHALL BE TEMPORARILY DISABLED UNTIL THE ALARM IS MANUALLY CLEARED BY THE OWNER. THE OA DAMPER SHALL CLOSE TO ITS MINIMUM VENTILATION POSITION.

I. COMBUSTION DETECTION: ON DETECTION OF PRODUCTS OF COMBUSTION, THE DUCT SMOKE DETECTOR SHALL STOP THE UNIT SUPPLY FAN. THE SMOKE DETECTOR SHALL BE WIRED DIRECTLY TO THE UNIT MOUNTED CONTROLLER AND TRIGGER AN EMERGENCY SHUTDOWN, SENDING AN ALARM TO THE OWNER'S WORKSTATION.

GRAPHICAL USER INTERFACE MAIN SCREEN

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS		TREND	ALARM	SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV			
BAS ENABLE/DISABLE COMMAND				X	X	X	X		X
OCCUPIED/UNOCCUPIED MODE						X	X		X
OUTSIDE AIR TEMP (1)	X								X
OUTSIDE AIR DAMPER POSITION					X		X	X	X
OUTSIDE AIR FLOW RATE	X						X		X
FILTER STATUS			X					X	X
MIXED AIR TEMPERATURE	X						X	X	X
CONDENSATE SWITCH			X					X	X
COMPRESSOR STATUS (2)			X					X	X
GAS HEAT VALVE STATUS			X		X		X	X	X
SUPPLY FAN SPEED		X					X		X
SUPPLY FAN START/STOP			X						X
SUPPLY FAN STATUS						X	X	X	X
DISCHARGE AIR TEMP	X						X	X	X
NATURAL GAS CONTROL VALVE			X				X	X	X
SPACE TEMPERATURE	X						X	X	X
SPACE TEMP. SETPOINT					X				X
SPACE HUMIDITY	X						X	X	X
SPACE HUMIDITY SET POINT					X				X
SPACE CO2	X						X	X	X
SPACE CO2 SETPOINT					X				X
RETURN AIR TEMP.	X						X	X	X
SPACE STATIC PRESSURE	X						X		X
GLOBAL OUTSIDE AIR TEMP.	X						X		X
RETURN AIR DAMPER POSITION					X		X		X
SMOKE DETECTOR			X					X	X

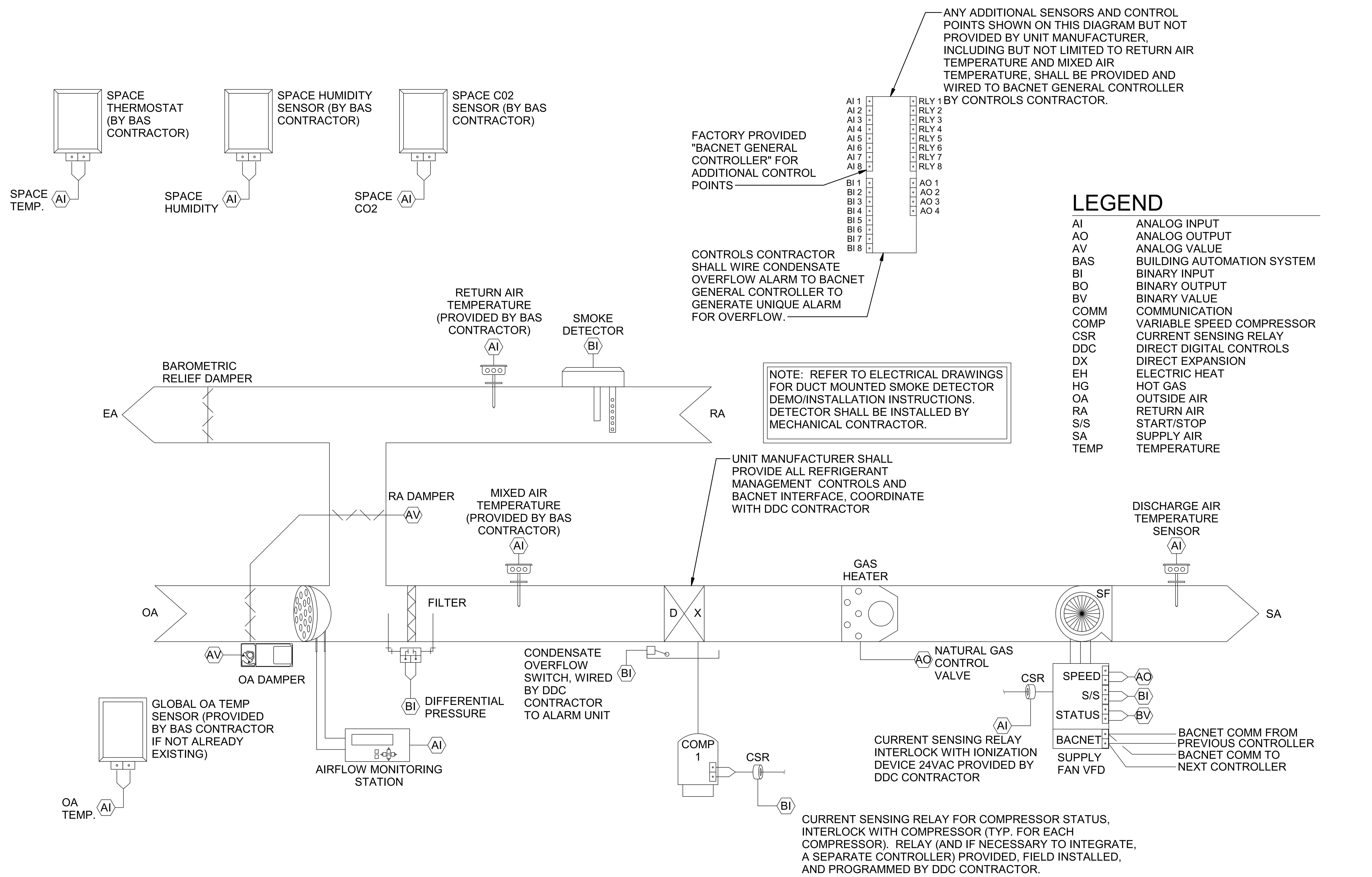
(1) OUTSIDE AIR TEMPERATURE FOR ECONOMIZER FUNCTION SHALL BE OBTAINED FROM GLOBAL OUTSIDE AIR TEMPERATURE SENSOR.

(2) FIELD INSTALLED AND PROGRAMMED CT'S BY DDC CONTRACTOR IF FACTORY-PROVIDED COMPRESSOR STATUS POINTS ARE NOT AVAILABLE.

(3) PROVIDE SECONDARY DATA PAGE IN GRAPHICAL USER INTERFACE CONTAINING ALL POINTS NOT LISTED ABOVE, BUT AVAILABLE THROUGH THE UNIT'S BACNET INTERFACE.

SINGLE ZONE VAV PACKAGED ROOFTOP HEAT PUMP UNIT POINTS LIST

(RTU-9)



LEGEND

AI	ANALOG INPUT
AO	ANALOG OUTPUT
AV	ANALOG VALUE
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT
BO	BINARY OUTPUT
BV	BINARY VALUE
COMM	COMMUNICATION
COMP	VARIABLE SPEED COMPRESSOR
CSR	CURRENT SENSING RELAY
DDC	DIRECT DIGITAL CONTROLS
DX	DIRECT EXPANSION
EH	ELECTRIC HEAT
HG	HOT GAS
OA	OUTSIDE AIR
RA	RETURN AIR
S/S	START/STOP
SA	SUPPLY AIR
TEMP	TEMPERATURE

SINGLE ZONE VAV PACKAGED ROOFTOP HEAT PUMP UNIT CONTROL DIAGRAM

NOT TO SCALE

(RTU-9)

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REVISIONS

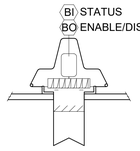
DATE 01/23/2025
PROJECT 21222-21
DESIGNED CEP
DRAWN SLS
CHECKED KDA

PROJECT: SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING: AUTOMATIC TEMPERATURE CONTROLS

SHEET M-501

GRAPHICAL USER INTERFACE MAIN SCREEN									
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS			ALARMS	
	AI	AO	BI	BO	AV	BV	TREND	ALARM	SHOW ON GRAPHIC
ENABLE/DISABLE				X					X
STATUS			X				X	X	X



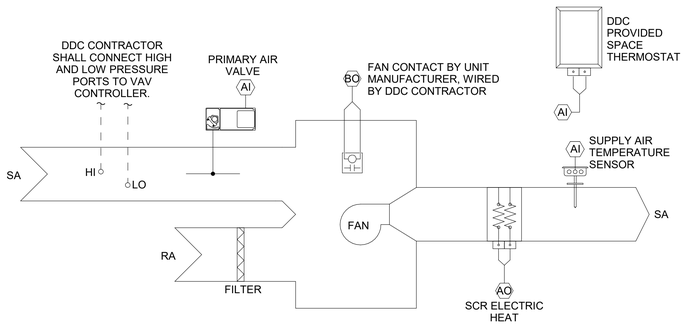
EF-1 AND EF-2 DIAGRAM

NOT TO SCALE (TYP. OF BAS CONTROLLED DOWNBLAST FANS)

GENERAL EXHAUST FANS

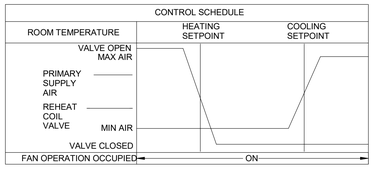
A. UNLESS OTHERWISE INDICATED ON THE EXHAUST FAN SCHEDULE, EXHAUST FANS WILL BE ENABLED/DISABLED THROUGH THE BAS TO BE INDEXED ON IN OCCUPIED MODE AND OFF IN UNOCCUPIED MODE. IN ADDITION, THE BAS SHALL MONITOR FAN STATUS UTILIZING CURRENT RELAY SENSORS. WHERE APPLICABLE, SHOULD PRODUCTS OF COMBUSTION BE DETECTED, THE SUPPLY AND EXHAUST FANS WILL BE DISABLED AND AN ALARM GENERATED.

EXHAUST FAN DIAGRAM, SEQUENCE OF OPERATIONS, AND POINTS LIST ALT 01



FAN POWERED VAV BOX WITH ELECTRIC REHEAT CONTROL DIAGRAM

NOT TO SCALE



GRAPHICAL USER INTERFACE MAIN SCREEN									
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS		TREND	ALARM	SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV			
SPACE TEMP	X						X	X	X
SPACE TEMP SETPOINT					X		X		X
DISCHARGE AIR TEMP.	X						X	X	X
FAN STATUS				X			X	X	X
ELECTRIC HEAT STATUS				X			X	X	X
PRIMARY AIR VALVE POSITION	X						X	X	X

NOTE: THE GRAPHICS SHALL INCLUDE THE SETPOINT DISPLAY FOR EACH CONTROLLED OR MONITORED VARIABLE.

SERIES FAN POWERED VAV TERMINAL UNIT POINTS LIST

SERIES FAN POWERED VAV TERMINAL UNIT SEQUENCE OF OPERATION ALT 01

FAN POWERED SERIES VAV BOX WITH ELECTRIC RE-HEAT

1. BUILDING AUTOMATION SYSTEM INTERFACE:

   A. THE BAS SHALL SEND A HEAT/COOL MODE, PRIORITY SHUTDOWN COMMANDS, SPACE TEMPERATURE AND/OR SPACE TEMPERATURE SETPOINT. IF COMMUNICATION IS LOST WITH THE BAS, THE VAV CONTROLLER SHALL OPERATE USING ITS LOCAL SETPOINTS.

2. OCCUPANCY MODE:

   A. OCCUPIED: NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING OR COOLING SETPOINT. APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.

3. HEAT/COOL MODE:

   A. THE HEAT/COOL MODE SHALL BE SET BY A COMMUNICATED VALUE OR AUTOMATICALLY BY THE VAV. IN STANDALONE OR AUTO MODE THE VAV SHALL COMPARE THE PRIMARY AIR TEMPERATURE WITH THE CONFIGURED AUTO CHANGEOVER SETPOINT TO DETERMINE IF THE AIR IS "HOT" OR "COLD". HEATING MODE SHALL COMMAND THE VAV TO HEAT ONLY; IT IMPLIES THE PRIMARY AIR TEMPERATURE IS HOT. COOLING MODE SHALL COMMAND THE VAV TO COOL ONLY; IT IMPLIES THE PRIMARY AIR TEMPERATURE IS COLD.

4. HEAT/COOL SETPOINT:

   A. THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED EITHER BY A LOCAL (E.G., THUMBWHEEL) SETPOINT, THE VAV DEFAULT SETPOINT OR A COMMUNICATED VALUE. THE VAV SHALL USE THE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A LOCAL SETPOINT AND COMMUNICATED SETPOINT EXIST, THE VAV SHALL USE THE COMMUNICATED VALUE.

5. COOLING MODE:

   A. WHEN THE UNIT IS IN COOLING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE COOLING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM COOLING AIRFLOW SETPOINT. THE ACTIVE COOLING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	DEFAULT VALUE
COOLING SETPOINT	74.0 DEG. F
STANDBY COOLING SETPOINT	78.0 DEG. F
MIN COOLING AIRFLOW SETPOINT	SEE VAV SCHEDULE
MAX COOLING AIRFLOW SETPOINT	SEE VAV SCHEDULE

   B. THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY.

6. HEATING MODE:

   A. WHEN THE UNIT IS IN HEATING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE HEATING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM HEATING AIRFLOW SETPOINT. THE ACTIVE HEATING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	DEFAULT VALUE
HEATING SETPOINT	71.0 DEG. F
STANDBY HEATING SETPOINT	67.0 DEG. F
MIN HEATING AIRFLOW SETPOINT	SEE VAV SCHEDULE
MAX HEATING AIRFLOW SETPOINT	SEE VAV SCHEDULE

   B. THE VAV CONTROLLER SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE HEATING SETPOINT TO DETERMINE THE REQUESTED HEATING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED HEATING CAPACITY.

7. CONTINUOUS FAN CONTROL:

   A. THE VAV FAN SHALL OPERATE CONTINUOUSLY IN ALL OCCUPIED MODES.

8. REHEAT CONTROL:

   A. REHEAT SHALL ONLY BE ALLOWED WHEN THE PRIMARY AIR TEMPERATURE IS 5.0 DEG. F BELOW THE CONFIGURED REHEAT ENABLE SETPOINT OF 70.0 DEG. F (ADJ.). THE REHEAT SHALL BE ENABLED WHEN THE SPACE TEMPERATURE DROPS BELOW THE ACTIVE COOLING SETPOINT AND THE AIRFLOW IS AT THE MINIMUM COOLING AIRFLOW SETPOINT. DURING REHEAT THE VAV SHALL OPERATE AT ITS MINIMUM HEATING AIRFLOW SETPOINT AND ENERGIZE THE HEAT AS FOLLOWS:

   B. ELECTRIC REHEAT: IF THE SPACE TEMPERATURE IS BELOW THE HEATING SETPOINT THE ELECTRIC RESISTANCE REHEAT COIL SHALL MODULATE AS REQUIRED TO MAINTAIN THE ACTIVE HEATING SETPOINT.

9. SPACE SENSOR FAILURE:

   A. IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO MINIMUM AIR FLOW. THE SERIES FAN SHALL BE ENABLED AND THE REHEAT WILL BE DISABLED.

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DRAWING AUTOMATIC TEMPERATURE CONTROLS

SHEET
M-502

ELECTRICAL LEGEND:

LIGHTING:

- EXISTING 2 'X 4' LIGHT FIXTURE
- EXISTING 1' X 4' LIGHT FIXTURE
- EXISTING 1' X 8' LIGHT FIXTURE
- EXISTING EXIT LIGHT FIXTURE.
- EXISTING 6" DOWNLIGHT
- EXISTING 12" SQUARE RECESSED LIGHT FIXTURE
- EXISTING WALL MOUNTED LIGHT FIXTURE
- EXISTING EMERGENCY LIGHT FIXTURE WITH SELF-CONTAINED BATTERY PACK, CONNECT TO INDICATED CIRCUIT AHEAD OF ANY LOCAL SWITCHING.
- 2 — 2' X 4' LED LIGHT FIXTURE . NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- 7 — 2' X 4' LED LIGHT FIXTURE WITH BUILT-IN EMERGENCY BATTERY PACK. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- 11 — 6" X 4' LED LIGHT FIXTURE. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- 12 — 6" X 4' LED LIGHT FIXTURE WITH BUILT-IN EMERGENCY BATTERY PACK. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- 1 — CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED. SHADED AREA INDICATES FACE-LIT. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- 12" SQUARE RECESSED LIGHT FIXTURE WITH BUILT-IN EMERGENCY BATTERY PACK.
- 10 — WALL MOUNTED LED LIGHT FIXTURE. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- $ — EXISTING SINGLE POLE SWITCH
- $3 — EXISTING THREE-WAY SWITCH
- $OS — SINGLE POLE SWITCH WITH OCCUPANCY SENSOR. INSTALL +46" A.F.F. PROVIDE nLIGHT CATALOG NUMBER nWSXA-PDT-LV-WH OR APPROVED EQUAL.
- $D — ONE (1) ZONE DIMMER SWITCH. INSTALL +46" A.F.F., U.O.N. PROVIDE nLIGHT CATALOG NUMBER nPODM-DX-WH OR APPROVED EQUAL.
- $OD — DIMMER SWITCH WITH OCCUPANCY SENSOR. INSTALL +46" A.F.F., U.O.N. PROVIDE nLIGHT CATALOG NUMBER nWSXA-PDT-LV-DX-WH OR APPROVED EQUAL.
- OS — CEILING MOUNTED OCCUPANCY SENSOR. PROVIDE nLIGHT CATALOG NUMBER nCM-PDTP10 OR APPROVED EQUAL.
- LIGHTING BRANCH CIRCUIT WIRING IN CONDUIT (SHOWN ON LIGHTING PLANS). RUN CONCEALED ABOVE CEILING, OR IN WALL. AS A MINIMUM, EACH SINGLE-PHASE LIGHTING CIRCUIT SHALL HAVE ONE PHASE CONDUCTOR, ONE NEUTRAL CONDUCTOR, AND ONE GROUND CONDUCTOR IN 1/2" CONDUIT OR 3 CONDUCTOR MC CABLE. PROVIDE ADDITIONAL CONDUCTORS AS REQUIRED FOR LIGHTING CONTROLS, SWITCH LEG, THREE-WAY, AND FOUR-WAY LIGHT SWITCHES. PROVIDE ADDITIONAL PHASE CONDUCTORS FOR EXIT LIGHTS, EMERGENCY LIGHTING EQUIPMENT AND DEVICES.
- LIGHTING HOMERUN TO PANEL. PANEL & CIRCUIT DESIGNATION AS INDICATED.
- P — PHOTOCELL - 2000W., 120/277 VOLT. INSTALL +9'-0" A.F.F.
- I — INVERTER / BATTERY - IOTA CATALOG NUMBER IIS-125-SM OR APPROVED EQUAL. INSTALL INVERTER ABOVE CEILING INSIDE BUILDING.

POWER:

- GFI 4 / E — DUPLEX RECEPTACLE, TAMPER RESISTANT, 20A, 120V. INSTALL +18" A.F.F. TO CENTER OF RECEPTACLE, U.O.N. IF CENTER SHADED, INSTALL +6" ABOVE COUNTER TOP OR BACKSPLASH. "GFI" WHEN USED INDICATES GROUND FAULT CIRCUIT INTERRUPTER. "4" WHEN USED INDICATES DOUBLE DUPLEX RECEPTACLE. SUBSCRIPT "W", WHEN USED, INDICATES DEVICE IN WIREMOLD SURFACE NON-METALLIC OUTLET BOX WITH SURFACE NON-METALLIC RACEWAY FROM BOX UP TO ABOVE THE CEILING. SUBSCRIPT "E", WHEN USED, INDICATES EXISTING DEVICE. SUBSCRIPT "W", WHEN USED, INDICATES DEVICE IN WIREMOLD SURFACE OUTLET BOX.
- GFI,WP — DUPLEX RECEPTACLE, TAMPER RESISTANT, 20A, 120V. WEATHER RESISTANT GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE WITH LOCKABLE METAL WEATHERPROOF WHILE-IN-USE COVERPLATE.
- EWC — DUPLEX RECEPTACLE, TAMPER RESISTANT, 20A, 120V. FOR ELECTRIC WATER COOLER. INSTALL DEVICE BEHIND WATER COOLER ENCLOSURE. VERIFY EXACT LOCATION WITH SUPPLIER OF WATER COOLER.
- TV — DUPLEX RECEPTACLE FOR WALL MONITOR. INSTALL RECEPTACLE IN WIREMOLD SURFACE METALLIC OUTLET BOX LOCATED BEHIND MONITOR SO THAT IT DOES NOT INTERFERE WITH THE MONITOR BRACKET. COORDINATE EXACT LOCATION WITH THE ARCHITECT. PROVIDE WIREMOLD SURFACE RACEWAY AND CONDUCTORS FROM OUTLET TO ABOVE THE CEILING. CONVERT RACEWAY TO CONDUIT ABOVE THE CEILING AND EXTEND AS SHOWN.
- EXISTING SPECIAL PURPOSE RECEPTACLE.
- E — ELECTRICAL CONNECTION TO EQUIPMENT.
- WH — ELECTRICAL CONNECTION TO WATER HEATER.
- EF — ELECTRICAL CONNECTION TO EXHAUST FAN.
- J — JUNCTION BOX - SIZE AS REQUIRED. SUBSCRIPT "W", WHEN USED, INDICATED WIREMOLD SURFACE JUNCTION BOX.
- 3P 60/40 3R — DISCONNECT SWITCH, 600V, U.O.N.: 3P=NUMBER OF POLES, 60=SWITCH RATING, 40=FUSE RATING (NF INDICATES NONFUSED). PROVIDE IN NEMA 1 ENCLOSURE IF INSTALLED INDOORS AND PROVIDE NEMA 3R ENCLOSURE IF INSTALLED OUT OF DOORS.
- T — EXISTING DRY TYPE TRANSFORMER.
- EXISTING PANELBOARD, 208Y/120 VOLT.
- EXISTING PANELBOARD, 480Y/277 VOLT.
- PS — EXISTING DOOR POWER SUPPLY.
- CB — EXISTING ENCLOSED CIRCUIT BREAKER.
- PB — EXISTING EMERGENCY STOP PUSHBUTTON.
- P — DATA/POWER POLE - PROVIDE WIREMOLD CATALOG NUMBER 25DTP-412WH POLE OR APPROVED EQUAL. PROVIDE OPENING AT BOTTOM OF POLE FOR POWER AND DATA CONDUCTORS TO FEED MODULAR FURNITURE AS DIRECTED BY MODULAR FURNITURE MANUFACTURER.
- POWER BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT (SHOWN ON POWER PLANS). RUN CONCEALED ABOVE CEILING, OR IN WALL. NO TICK MARKS INDICATES 2 #12 CONDUCTORS & 1 #12 GROUND, IN 1/2" CONDUIT, U.O.N. TICK MARKS, WHEN SHOWN, INDICATE NUMBER OF CONDUCTORS IF OTHER THAN THREE: (7) INDICATES GROUNDING CONDUCTOR. REFER TO NEW WORK NOTES FOR CONDUCTOR SIZES LARGER THAN #12.
- L1-1 — POWER HOMERUN TO PANEL. PANEL & CIRCUIT DESIGNATION AS INDICATED.
- 1 — DEMOLITION NOTE INDICATOR.
- 1 — NEW WORK NOTE INDICATOR.
- 107 — ROOM NUMBER INDICATOR.

POWER:

- EXISTING BRANCH CIRCUITRY RUN EXPOSED.
- EXISTING MOTOR STARTER.
- ABANDONED VERTICAL WIREMOLD SURFACE NON-METALLIC RACEWAY.
- SM — 20A SINGLE POLE MOTOR RATED SWITCH.
- SM30 — 30A SINGLE POLE MOTOR RATED SWITCH.

DATA/TELECOMMUNICATIONS SYSTEM

- WA E — EXISTING CEILING MOUNTED WIRELESS ACCESS DEVICE.
- WA — WIRELESS ACCESS DEVICE PROVIDED BY THE OWNER. PROVIDE ONE (1) CAT6 CABLE FROM EACH WIRELESS ACCESS DEVICE TO THE IDF WITH ENOUGH SPARE CABLE AT THE IDF TO REACH THE FLOOR. THE CONTRACTOR SHALL ALSO PROVIDE A 5'-0" LOOP OF CABLE ABOVE THE CEILING AT EACH WIRELESS ACCESS DEVICE.
- E — EXISTING TELEPHONE OUTLET
- E — EXISTING WALL TELEPHONE OUTLET
- E — EXISTING DATA OUTLET
- NEW DATA/TELEPHONE OUTLET CONCEALED IN WALLS. PROVIDE 1-GANG OUTLET BOX WITH 1-GANG PLASTER RING INSTALLED +18" A.F.F. IN NEW WALLS, PROVIDE 3/4" CONDUIT WITH BUSHINGS. TERMINATE CONDUIT +6" ABOVE LAY-IN TILE CEILING. PROVIDE ONE (1) CAT6 CABLE FROM EACH DATA/TELEPHONE OUTLET TO THE IDF RACK WITH ENOUGH SPARE CABLE TO REACH THE FLOOR.
- W — NEW DATA/TELEPHONE OUTLET SURFACE MOUNTED ON EXISTING WALLS. PROVIDE A 1-GANG OUTLET SURFACE METALLIC OUTLET BOX INSTALLED +18" A.F.F. PROVIDE SURFACE METALLIC RACEWAY FROM OUTLET BOX UP TO ABOVE THE CEILING. PROVIDE ONE (1) CAT6 CABLE FROM EACH DATA/TELEPHONE OUTLET TO THE IDF RACK WITH ENOUGH SPARE CABLE TO REACH THE FLOOR.
- TV — NEW DATA DROP FOR OWNER PROVIDED TELEVISION MONITOR. PROVIDE ONE (1) CAT6 CABLE FROM TELEVISION MONITOR TO THE IDF WITH ENOUGH SPARE TO REACH THE FLOOR. THE CONTRACTOR SHALL ALSO PROVIDE A 3'-0" LOOP OF CABLE ABOVE THE CEILING AT EACH TELEVISION MONITOR. PROVIDE WIREMOLD SURFACE RACEWAY FROM OUTLET TO ABOVE THE CEILING FOR DATA CABLE. INSTALL DATA OUTLET IN WIREMOLD SURFACE METALLIC OUTLET BOX LOCATED BEHIND MONITOR SO THAT IT DOES NOT INTERFERE WITH THE MONITOR BRACKET. COORDINATE EXACT LOCATION WITH THE ARCHITECT.
- TC — EXISTING TELEPHONE CABINET.
- T — EXISTING TELEPHONE PEDESTAL.

ACCESS CONTROL SYSTEM:

- CR — EXISTING COMBINATION INTERCOM STATION AND CARD READER.
- S — EXISTING ACCESS CONTROL SYSTEM SPEAKER
- KP — EXISTING ACCESS CONTROL SYSTEM KEY PAD
- MD — EXISTING ACCESS CONTROL SYSTEM MOTION DETECTOR
- DC — EXISTING DOOR CONTACT FOR ACCESS CONTROL

CCTV SYSTEM:

- EXISTING CEILING MOUNTED CCTV CAMERA.

INTERCOM SYSTEM:

- EXISTING INTERCOM SYSTEM CLOCK
- S — EXISTING INTERCOM SYSTEM SPEAKER.
- S — EXISTING WALL MOUNTED SPEAKER
- B — EXISTING INTERIOR CLASS CHANGE BELL
- B — EXISTING EXTERIOR CLASS CHANGE BELL.

FIRE ALARM SYSTEM:

- F — EXISTING PULL STATION.
- H — EXISTING EXTERIOR WALL MOUNTED FIRE ALARM HORN.
- HS — EXISTING CEILING MOUNTED AUDIO/VISUAL DEVICE.
- HS 15 — PROVIDE NEW CEILING MOUNTED AUDIO/VISUAL DEVICE. SUBSCRIPT INDICATES CANDELA LEVEL.
- V — EXISTING CEILING MOUNTED VISUAL DEVICE.
- V 15 — PROVIDE NEW CEILING MOUNTED VISUAL DEVICE. SEE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS. SUBSCRIPT INDICATES CANDELA LEVEL.
- S — EXISTING SMOKE DETECTOR.
- H — EXISTING HEAT DETECTOR.
- D — EXISTING DUCT SMOKE DETECTOR, WITH SAMPLING TUBES
- L — PROVIDE NEW DUCT SMOKE DETECTOR REMOTE INDICATING LIGHT
- FAPS — EXISTING FIRE ALARM POWER SUPPLY.
- FARA — EXISTING FIRE ALARM REMOTE ANNUNCIATOR PANEL.

GENERAL FIRE ALARM NOTES

1. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM WIRING DIAGRAM AND SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH THE WIRING DIAGRAM, THE NATIONAL ELECTRICAL CODE, AND ANY AND ALL LOCAL CODES AND ORDINANCES WHICH PERTAIN TO THE WORK.
2. PROVIDE EACH DUCT SMOKE DETECTOR WITH A REMOTE INDICATOR LIGHT IN ACCORDANCE WITH NFPA 72. INSTALL REMOTE INDICATING LIGHT FLUSH IN THE CEILING BELOW THE DUCT DETECTOR.
3. LABEL ALL REMOTE INDICATING LIGHTS WITH MECHANICAL EQUIPMENT DESIGNATIONS THAT ARE ASSOCIATED WITH THE DUCT SMOKE DETECTOR.
4. PROVIDE ONLY PLENUM RATED FIRE ALARM CABLE ON THIS PROJECT. INSTALL ALL FIRE ALARM SYSTEM ABOVE LAY-IN TILE CEILINGS WITHOUT CONDUIT, U.O.N. TIE CABLES TOGETHER WITH PLENUM RATED NYLON TIE WRAPS AND SUPPORT FROM J-HOOKS ATTACHED TO THE WALL ABOVE THE CEILING AND BELOW EXISTING PIPING AND DUCTWORK. RUN ALL FIRE ALARM CABLES ABOVE A HARD CEILING OR IN AN EXPOSED AREA WITH NO CEILING IN 3/4" CONDUIT. IF SPLICING BECOMES A NECESSITY, IT SHALL BE DONE IN AN APPROPRIATELY SIZED JUNCTION BOX (JUNCTION BOX SHALL THEN BE PAINTED RED). ALL DOWN STREAM MODULES (I.E. ZONE ADDRESSABLE AND/OR ZONE ADAPTER MODULES) SHALL BE INSTALLED IN JUNCTION BOXES CONCEALED ABOVE LAY-IN TILE CEILINGS.
5. PATCH OPENINGS AROUND CONDUIT THROUGH WALL PENETRATIONS ON EACH SIDE OF THE WALL WITH FIRE RATED SEALANT EQUAL OR GREATER THAN THE RATING OF THE WALL.
6. INSTALL CEILING MOUNTED SMOKE DETECTORS ON A 4" SQUARE JUNCTION BOX. CUT ACOUSTICAL TILE CEILING TO ACCOMMODATE THE JUNCTION BOX. PROVIDE ACOUSTICAL TEE 24" SPAN ELECTRICAL BOX HANGAR BY ERICO CADDY FASTENER, CATALOG NUMBER 512 OR APPROVED EQUAL FOR SUPPORT OF JUNCTION BOX.
7. PROVIDE ALL NEW FIRE ALARM DEVICES AND NEW WIRING THAT IS COMPATIBLE WITH EXISTING BUILDING FIIRE ALARM SYSTEM. MANUFACTURED BY DMP.
8. THE FIRE ALARM PANEL FOR THIS BUILDING IS LOCATED IN THE MAIN SCHOOL BUILDING. ANY PROGRAMMING CHANGES TO THE EXISTING FIRE ALARM CONTROL PANEL DUE TO THE REMOVAL OF PULL STATIONS AS A PART OF THIS PROJECT SHALL BE PERFORMED BY A CERTIFIED DMP FIRE ALARM SYSTEM TECHNICIAN.

ABBREVIATIONS:

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
CAT6	CATEGORY 6
E	EXISTING
EWC	ELECTRIC WATER COOLER
FARA	FIRE ALARM REMOTE ANNUNCIATOR
GFI	GROUND FAULT INTERRUPTER
HACR	HEATING AIR CONDITIONING RATED
HVAC	HEATING V ENTILATING AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
K.A.I.C.	KILO AMPERE INTERRUPTING CAPACITY
LED	LIGHT EMITTING DIODE
MA	MILI-AMPERE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
P	POLE
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHERPROOF

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DRAWING: ELECTRICAL LEGEND AND NOTES

SHEET
E-001

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"

LIGHT FIXTURE SCHEDULE

Type	MANAUFACTURER / CATALOG No.	LUMEN	INITIAL COLOR	WATTS	VOLT	MOUNTING	REMARKS
1	LITHONIA LQM-S-W-3-R-MVOLT-ELN	78 LUMENS	3500 K	3.0 W	277	CEILING	
2	LITHONIA 2VTL4-30L-ADP-MVOLT-GZ10-LP835-N100	3000 LUMENS	3500 K	23.0 W	277	RECESSED	
3	LITHONIA 2VTL4-30L-ADP-MVOLT-GZ10-LP835-N100-EL14	3000 LUMENS	3500 K	23.0 W	277	RECESSED	
4	LITHONIA 2VTL4-40L-ADP-MVOLT-GZ10-LP835-N100	4000 LUMENS	3500 K	32.0 W	277	RECESSED	
6	LITHONIA 2VTL4-48L-ADP-MVOLT-GZ10-LP835-N100	4800 LUMENS	3500 K	39.0 W	277	RECESSED	
7	LITHONIA 2VTL4-48L-ADP-MVOLT-GZ10-LP835-N100-EL14	4800 LUMENS	3500 K	39.0 W	277	RECESSED	
8	LITHONIA BLTX4-30L-ADP-MVOLT-GZ10-LP835-N100	3000 LUMENS	3500 K	24.0 W	277	SURFACE	
11	LITHONIA ZL1D-L48-SMR-3000LM-FST-MVOLT-35K-835-WH	3000 LUMENS	3500 K	30.0 W	277	SURFACE/PENDANT	SEE NOTE 1
12	LITHONIA ZL1D-L48-SMR-3000LM-FST-MVOLT-35K-835-E10W-WH	3000 LUMENS	3500 K	30.0 W	277	PENDANT	SEE NOTE 1
13	LITHONIA SCNY-LED-P1-40K-PFL-MVOLT-DWHXD-M3	4000 LUMENS	4000 K	55.0 W	LED	RECESSED	

LIGHT FIXTURE SCHEDULE NOTES:

GENERAL:

PROVIDE LIGHT FIXTURES WITH ALL REQUIRED MOUNTING HARDWARE AND ACCESSORIES FOR PROPER INSTALLATION OF LIGHT FIXTURES. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES AND CEILING TYPES.

SPECIFIC:

1. PROVIDE CANOPIES AND PENDANTS FOR LIGHT FIXTURE INSTALLED IN ROOMS WITH NO CEILINGS. PENDANTS SHALL BE LENGTH AS REQUIRED TO SUSPEND LIGHT FIXTURES TO +9'-0" A.F.F.

GENERAL DEMOLITION NOTES

1. PERFORM ALL THE REQUIRED DEMOLITION TO COMPLY WITH THE SCOPE AND INTENT OF THE PROJECT. REMOVE ALL WIRING ASSOCIATED WITH THE REQUIRED DEMOLITION BACK TO POINT OF ORIGIN OR LAST DEVICE TO REMAIN
2. VERIFY ALL CIRCUITS SAVED DURING DEMOLITION FOR REUSE AS TO WIRE SIZE AND POINT OF ORIGIN.
3. EXERCISE CARE IN REMOVING MATERIAL AND EQUIPMENT DURING DEMOLITION. REPAIR ALL DAMAGE TO EXISTING SURFACES OR EXISTING EQUIPMENT TO REMAIN TO THE SATISFACTION OF THE ARCHITECT AND OWNER AT NO ADDITIONAL COST TO THE OWNER.
4. PROVIDE THE OWNER WITH FIRST RIGHT OF REFUSAL FOR ALL ELECTRICAL EQUIPMENT BEING REMOVED AS A PART OF THIS CONTRACT AND NOT SCHEDULED FOR REINSTALLATION. ALL ELECTRICAL EQUIPMENT NOT TURNED OVER TO THE OWNER SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
5. BEFORE BEGINNING ANY WORK, FIELD VERIFY THE WORKING CONDITION OF ALL AUXILIARY SYSTEM DEVICES SCHEDULED FOR REMOVAL AND REINSTALLATION. NOTIFY THE OWNER OF ALL DEFECTIVE EQUIPMENT. AFTER THE REINSTALLATION OF ALL EQUIPMENT, RE-VERIFY THE WORKING CONDITION. REPLACE ALL EQUIPMENT FOUND DEFECTIVE AFTER REINSTALLATION, WHICH WERE WORKING PRIOR TO REMOVAL WITH EQUIPMENT TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
6. IN AREAS WHERE NO OTHER TRADES ARE INVOLVED, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF EXISTING CEILING TILES AS REQUIRED TO INSTALL THE NEW BRANCH CIRCUITRY. REINSTALL EXISTING CEILING TILES AFTER COMPLETION OF WORK. REPLACE ALL CEILING TILES DAMAGED DURING THIS PROJECT WITH NEW TILES TO MATCH EXISTING TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
7. PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. REROUTE AND RECONNECT ALL CIRCUIT THAT IS REQUIRED TO REMAIN IN USE BUT INTERFERES WITH NEW CONSTRUCTION.
8. CONDUITS MAY BE ABANDONED IN WALLS AND BELOW FIRST FLOOR SLABS ONLY. REMOVE ALL WIRING FROM ABANDONED CONDUITS. DISCONNECT CONDUCTORS FROM ALL POWER SOURCES AND PROVIDE BLANK COVERPLATES ON ALL ABANDONED OUTLET BOXES.
9. WHERE THE TERM "BRANCH CIRCUITRY" IS USED ON THESE DRAWINGS, IT IS TO BE CONSTRUED TO MEAN CONDUIT AND CONDUCTORS.
10. PROVIDE NEW TYPED PANEL INDEX CARDS IN EXISTING PANELBOARDS WHERE CIRCUITS HAVE BEEN MODIFIED BY THIS PROJECT. PROVIDE COPIES OF MODIFIED PANEL INDEX CARDS ON AS BUILT DRAWINGS AND INCLUDED IN OPERATION AND MAINTENANCE MANUALS. PROVIDE CIRCUIT BREAKER FILLER PLATES FOR ALL CIRCUIT BREAKERS REMOVED FROM EXISTING PANELBOARDS DURING DEMOLITION WORK.
11. THE EXISTING CONDITIONS ILLUSTRATED HAVE BEEN DETERMINED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND A LIMITED NON-INVASIVE FIELD INVESTIGATION. THE CONTRACTOR SHALL INVESTIGATE FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND MAKE ADJUSTMENTS AS NECESSARY.

GENERAL NOTES:

1. WHERE INDIVIDUAL 120V HOMERUN CIRCUITS ARE SHOWN ON THE DRAWINGS THEY MAY BE COMBINED AS FOLLOWS:
   - NO MORE THAN THREE (3) PHASE CONDUCTOR PLUS THREE NEUTRALS AND ONE (1) GROUND PER CONDUIT, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
   - NO TWO OF THE SAME PHASE CONDUCTOR PER CONDUIT.
   - PROVIDE 120V CIRCUIT WITH INDIVIDUAL NEUTRALS PER CIRCUIT. NEUTRALS MAY NOT BE SHARED BETWEEN PHASES.
2. PAINT ALL EXPOSED CONDUIT AND SURFACE METAL RACEWAY TO MATCH THE SURFACE TO WHICH ATTACHED IF THE SURFACE IS PAINTED.
3. COORDINATE WITH MECHANICAL CONTRACTOR AND DRAWINGS FOR EXACT LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS INCLUDING BUT NOT LIMITED TO NUMBER OF ELECTRICAL CONNECTIONS, NUMBER AND SIZE OF FEEDERS' TERMINAL LUGS, MAXIMUM OVERCURRENT PROTECTION, AND SIZE AND TYPE OF FUSES. MAKE ADJUSTMENTS TO CONDUIT ROUTING, PLACEMENT OF DISCONNECTS AND STARTERS AS REQUIRED.
4. PROTECT BRANCH CIRCUIT WIRING FROM PAINT OVERSPRAY DURING CONSTRUCTION TO PRESERVE COLOR-CODING. CONDUCTORS PAINTED SHALL BE COMPLETELY CLEANED OF PAINT BEFORE FINAL CONNECTIONS ARE MADE.
5. VERIFY OUTLET BOX, DEVICE AND WIRING REQUIREMENTS FOR INTERCOM STATIONS, SPEAKERS AND FIRE ALARM DEVICES WITH THE EXISTING SYSTEM MANUFACTURER'S AND PROVIDE ALL MATERIAL AND LABOR REQUIRED TO EXTEND THE EXISTING SYSTEMS.
6. COORDINATE WIRING DEVICE OUTLET LOCATIONS WITH ARCHITECTURAL PLANS, ELECTRICAL PLANS, ENLARGED FLOOR PLANS, EQUIPMENT AND FURNITURE LAYOUTS, SECTIONS, ELEVATIONS, DETAILS AND JOB SITE DIFFERENCES PRIOR TO ROUGHING-IN CONDUITS. MAKE REQUIRED ADJUSTMENTS (WITH ARCHITECTS AND ENGINEERS' APPROVAL).
7. INSTALL DEVICES SHOWN ON DRAWINGS IN ACCORDANCE WITH MOUNTING HEIGHTS SHOWN IN THE ELECTRICAL LEGEND AND/OR THE PROJECT SPECIFICATIONS. ALL MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTER OF THE OUTLET BOX, UON. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ARCHITECT.
8. INSTALL FIRE ALARM DEVICES IN ACCORDANCE WITH A.D.A. REQUIREMENTS.
9. WHERE THE TERM "BRANCH CIRCUITRY" IS USED ON THESE DRAWINGS, IT IS TO BE CONSTRUED TO MEAN CONDUIT AND CONDUCTORS.
10. ALL CIRCUIT BREAKERS REQUIRED TO SERVE TEMPERATURE CONTROL LOADS SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED IN THE PANELBOARDS UNDER DIVISION 26.
11. PROVIDE HACR RATED CIRCUIT BREAKERS FOR ALL HEATING AND AIR CONDITIONING EQUIPMENT.
12. PROVIDE GFCI CIRCUIT BREAKERS WHERE INDICATED. GFCI CIRCUIT BREAKERS SHALL BE CLASS A GROUND-FAULT PROTECTION (5-MA TRIP).
13. CIRCUIT BREAKERS SERVING ELECTRIC WATER COOLERS SHALL BE GFCI TYPE.
14. ALL LIGHT FIXTURES INSTALLED RECESSED IN DRYWALL CEILINGS SHALL BE PROVIDED WITH DRYWALL FLANGE KIT. THE USE OF LIGHT FIXTURES WITH BUILT-IN SCREW CLAMPS OR FLAPS WILL NOT BE ACCEPTED.
15. ALL CIRCUIT BREAKERS SERVING PERMANENTLY CONNECTED LOADS OVER 300 VOLT-AMPERES SHALL BE CAPABLE OF BEING LOCKED IN THE (OFF) POSITION.
16. PROVIDE A TYPED CIRCUIT INDEX CARD FOR EACH PANELBOARD UPON COMPLETION OF INSTALLATION WORK. INDICATE LOAD SERVED AND ROOM NUMBER(S). USE FINAL ROOM NUMBERS OBTAINED FROM THE ARCHITECT OR OWNER, NOT CONSTRUCTION ROOM NUMBERS AS SHOWN ON THE DRAWINGS.
17. PROVIDE ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOOR WITH NEMA 3R ENCLOSURES, WHETHER INDICATED OR NOT.
18. THE HVAC CONTROLS BRANCH CIRCUITRY BETWEEN EACH HVAC CONTROL PANEL AND ELECTRICAL PANELS WITH CIRCUIT BREAKERS LABELED AS "HVAC CONTROLS" SHALL BE PROVIDED BY THE MECHANICAL CONTROLS CONTRACTOR. THE FINAL TERMINATION OF EACH CONTROLS BRANCH CIRCUITRY TO THE ELECTRICAL PANELS SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
19. DISCONNECT SWITCHES SHALL CONFORM TO GOVERNING INDUSTRY NEMA STANDARDS. THEY SHALL BE LISTED BY UL. DISCONNECT SWITCHES SHALL BE NEMA STANDARD HEAVY DUTY, QUICK-MAKE, QUICK-BREAK TYPE, AND CAPABLE OF BEING LOCKED IN THE OFF POSITION. WHERE DISCONNECT SWITCHES ARE INDICATED OR REQUIRED BY THE NEC TO BE WEATHERPROOF, FURNISH NEMA 3R ENCLOSURES, UNLESS INDICATED OTHERWISE.
20. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
21. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FEET OF EACH MECHANICAL UNIT AS REQUIRED BY NEC, WHETHER INDICATED OR NOT. COORDINATE INSTALLATION LOCATIONS WITH FINAL EQUIPMENT LAYOUT PROVIDE BY MECHANICAL CONTRACTOR.
22. SEAL AROUND ALL EXISTING AND NEW CONDUIT PENETRATIONS THROUGH WALLS WITH FIRE RETARDANT SEALANT THAT MEETS OR EXCEEDS THE FIRE RATING OF THE WALL. ALL OTHER THRU WALL PENETRATIONS SHALL BE GROUTED OR SEALED WITH CAULK. ALL PENETRATIONS SHALL BE CORE DRILLED OR DRILLED WITH PROPER TOOLS. HAMMERS SHALL NOT BE USED TO CREATE PENETRATIONS IN WALLS. REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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MARK	DATE	REVISIONS BY	DESCRIPTION

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	DWC
DRAWN	MWH
CHECKED	KC

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COMMONWEALTH OF VIRGINIA
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01.23.2025
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PROJECT: SUFFOLK PUBLIC SCHOOLS
SPS INNOVATION CENTER
4169 Pruden Blvd., Suffolk, VA 23434

DRAWING: LIGHTING SCHEDULE AND NOTES

SHEET
E-002

1/32" = 1'-0" 0' 16' 32' 48' | 1/16" = 1'-0" 0' 4' 8' 16' 24' | 3/32" = 1'-0" 0' 4' 8' 16' | 1/8" = 1'-0" 0' 4' 8' 12' | 1/4" = 1'-0" 0' 2' 4' 6' | 3/8" = 1'-0" 0' 1' 2' 3' 4' | 1/2" = 1'-0" 0' 6" 1' 2' 3' | 3/4" = 1'-0" 0' 6" 1' 2' | 1" = 1'-0" 0' 3" 6" 9" 1' 1.5' | 1 1/2" = 1'-0" 0' 3" 6" 9" 1' | 3" = 1'-0" 0' 1" 2" 3" 4" 5" 6" | 6" = 1'-0" 0' 1" 2" 3" | 12" = 1'-0" 0' 1" 1.5"

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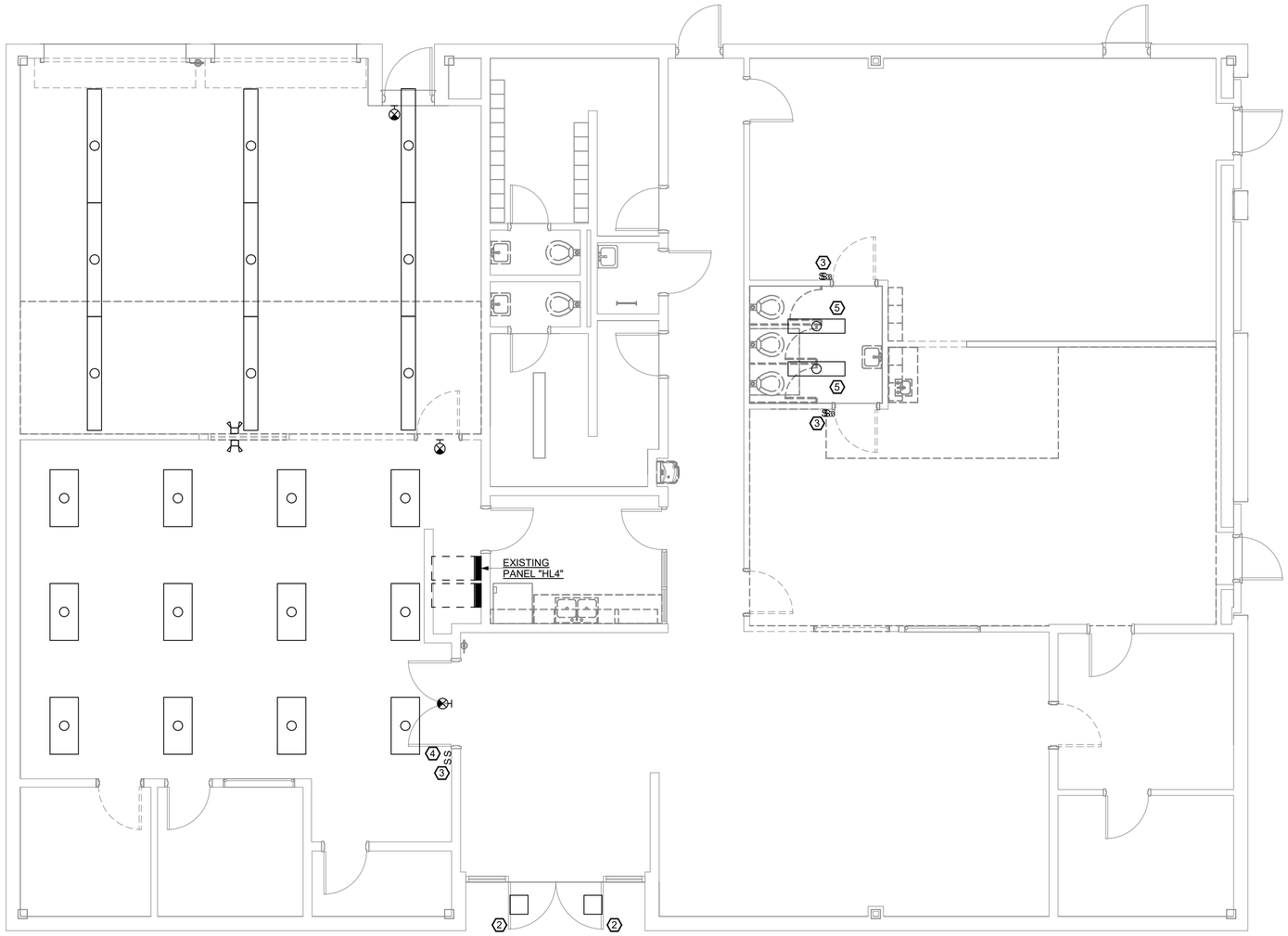
DEMOLITION NOTES: (THIS DRAWING ONLY)

1. REMOVE ALL ABANDONED LIGHTING BRANCH CIRCUITRY IN THE AREAS TO BE RENOVATED. REMOVE ALL LIGHT FIXTURES, EXIT LIGHTS, AND EBU'S SHOWN ON THIS FLOOR PLAN. REMOVE BRANCH CIRCUITRY BACK TO POINT OF ORIGIN. PROVIDE NEW BRANCH CIRCUITRY AND CONNECT TO EXISTING LIGHT FIXTURES TO REMAIN AS REQUIRED.
2. REMOVE LIGHT FIXTURE. REMOVE CONDUCTORS BACK TO POINT OF ORIGIN. SAVE EXISTING OUTLET BOX AND CONDUIT ABOVE SOFFIT CEILING FOR REUSE.
3. REMOVE LIGHT SWITCH AND SWITCHLEG CONDUCTORS UP TO LIGHT FIXTURES. REMOVE SWITCHLEG CONDUIT ABOVE CEILING AND PROVIDE BLANK COVERPLATE ON OUTLET BOX.
4. REMOVE LIGHT SWITCH AND SWITCHLEG BRANCH CIRCUITRY UP TO LIGHT FIXTURES.
5. EXISTING LIGHT FIXTURE TO REMAIN.



OVERALL DEMOLITION FLOOR PLAN - LIGHTING ①

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

MARK	DATE	REVISIONS	BY
		DESCRIPTION	

DATE	01/23/2025
PROJECT	21222-21
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DRAWING: OVERALL DEMOLITION FLOOR PLAN - LIGHTING

SHEET
ED-101

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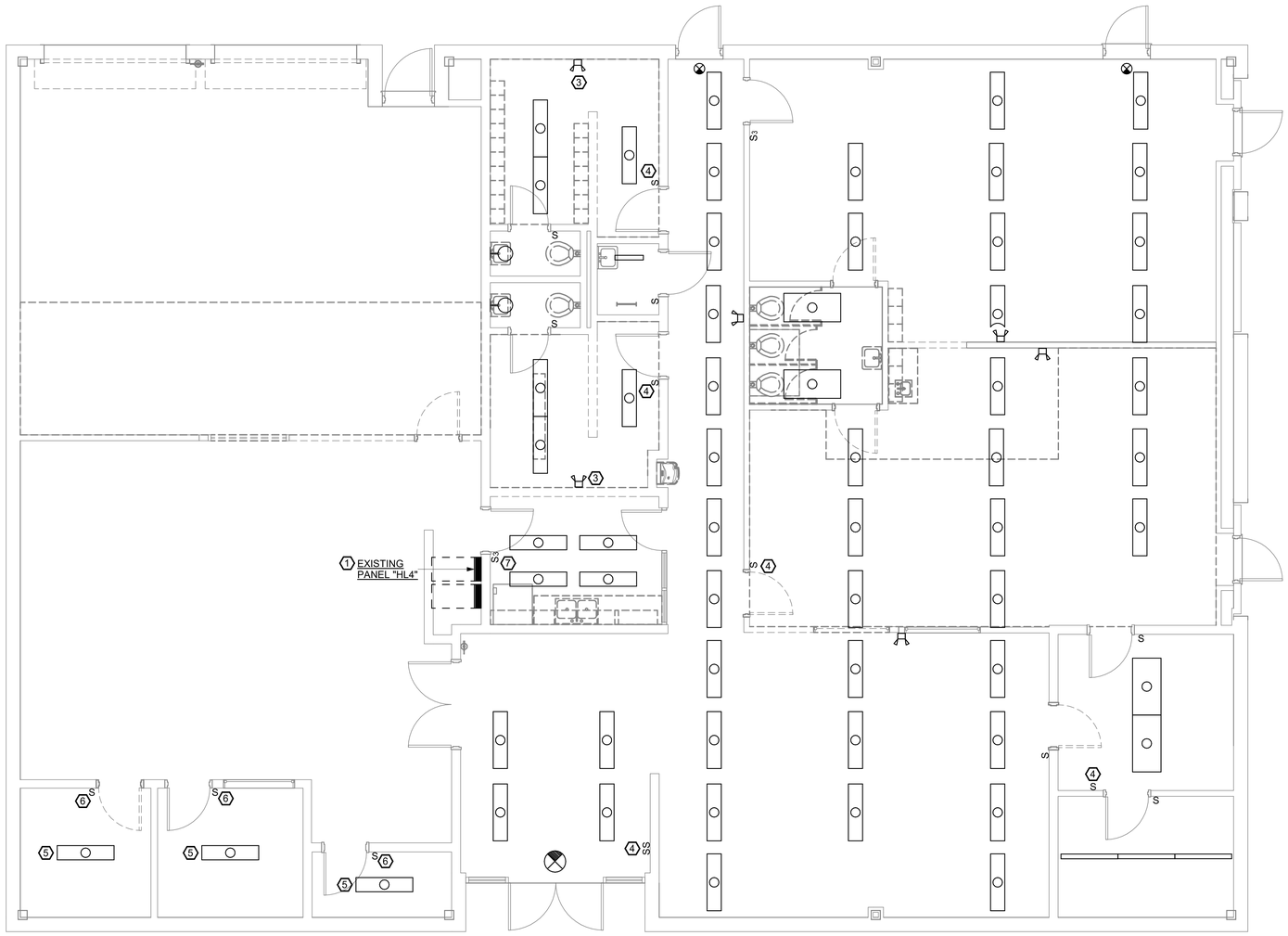
DEMOLITION NOTES: (THIS DRAWING ONLY)

1. EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
2. REMOVE ALL ABANDONED LIGHTING BRANCH CIRCUITRY IN THE AREAS TO BE RENOVATED. REMOVE ALL LIGHT FIXTURES, EXIT LIGHTS, AND EBU'S SHOWN ON THIS FLOOR PLAN. REMOVE BRANCH CIRCUITRY IN AREAS WITH ACCESSIBLE CEILINGS OR EXPOSED CONSTRUCTION BACK TO POINT OF ORIGIN. SAVE ALL LIGHTING BRANCH CIRCUITRY ABOVE HARD CEILINGS FOR REUSE U.O.N. REMOVE ALL LIGHT SWITCHES AND SWITCHLEG CONDUCTORS UP TO LIGHT FIXTURES. REMOVE SWITCH LEG CONDUIT ABOVE CEILINGS AND SAVE OUTLET BOX AND SWITCHLEG CONDUIT IN WALL FOR REUSE. PROVIDE NEW BRANCH CIRCUITRY AND CONNECT TO EXISTING LIGHT FIXTURES TO REMAIN AS REQUIRED.
3. REMOVE EBU. REMOVE SURFACE RACEWAY AND CONDUCTORS DOWN TO RECEPTACLE.
4. REMOVE LIGHT SWITCH AND SWITCHLEG CONDUCTORS UP TO LIGHT FIXTURES. REMOVE SWITCHLEG CONDUIT ABOVE CEILING AND PROVIDE BLANK COVERPLATE ON OUTLET BOX.
5. REMOVE LIGHT FIXTURE. SAVE BRANCH CIRCUITRY FOR REUSE.
6. REMOVE SWITCH. SAVE SWITCHLEG CONDUCTORS, OUTLET BOX AND CONDUIT FOR REUSE.
7. REMOVE SWITCH AND SWITCH LEG CONDUCTORS. SAVE OUTLET BOX AND SWITCH LEG CONDUIT DOWN WALL FOR REUSE.



OVERALL DEMOLITION FLOOR PLAN - LIGHTING ALT 01 (2)

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

MARK	DATE	REVISIONS BY DESCRIPTION

DATE	01/23/2025
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DRAWING: OVERALL DEMOLITION FLOOR PLAN - LIGHTING ALT 01

SHEET
ED-102

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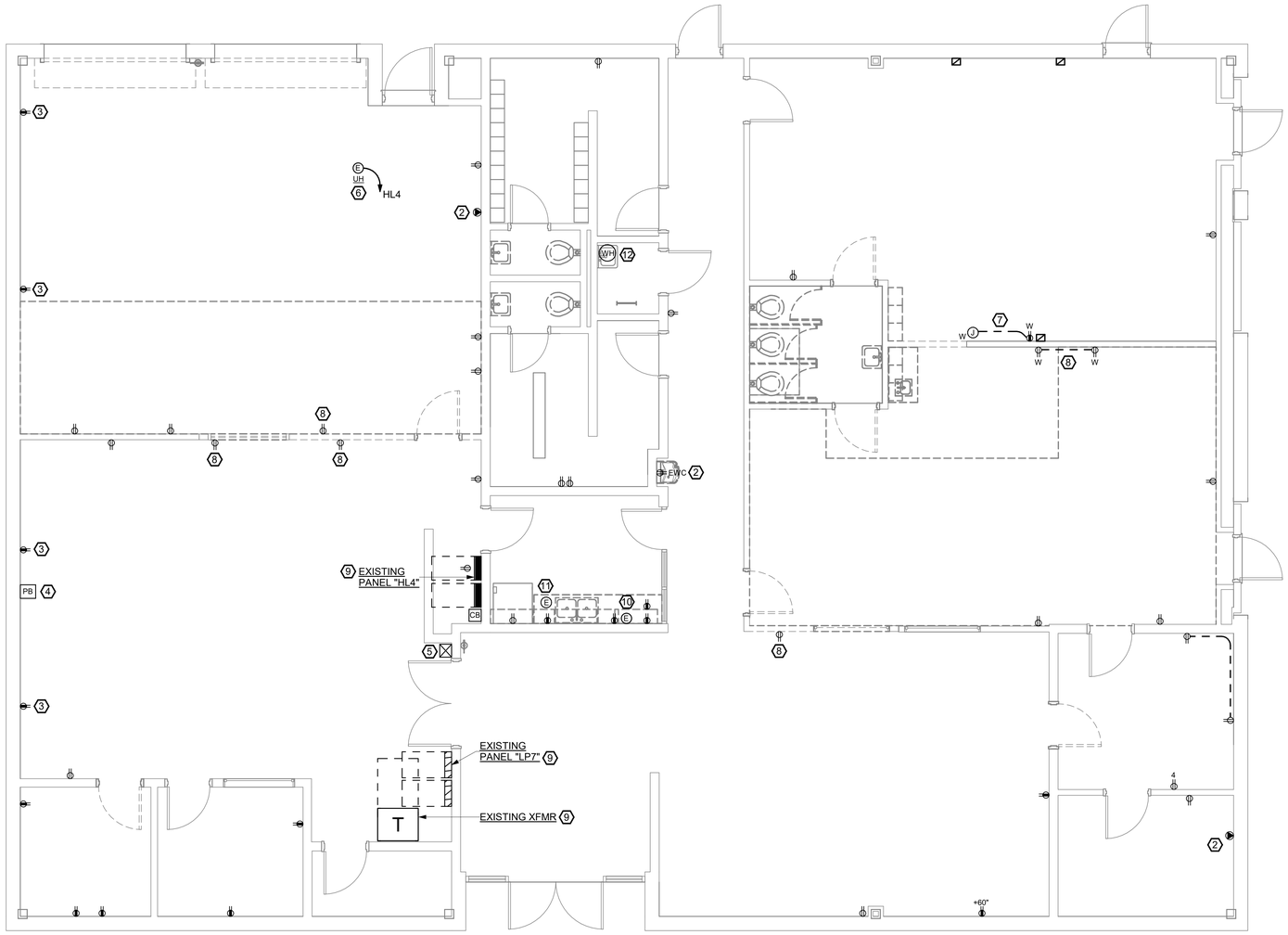
DEMOLITION NOTES: (THIS DRAWING ONLY)

1. ALL EXISTING ELECTRICAL EQUIPMENT AND WIRING DEVICES SHOWN ON THIS FLOOR PLAN SHALL REMAIN U.O.N. ALL BRANCH CIRCUITRY SHALL REMAIN U.O.N. REMOVE ALL ABANDONED SURFACE RACEWAY.
2. REMOVE RECEPTACLE AND BRANCH CIRCUITRY BACK TO POINT OF ORIGIN. LABEL CIRCUIT BREAKER IN PANEL "SPARE" IN PANEL INDEX.
3. REMOVE RECEPTACLE AND INSTALL BLANK COVERPLATE.
4. REMOVE ABANDONED PUSHBUTTON AND EXISTING WIRING BACK TO POINT OF ORIGIN. PROVIDE BLANK COVERPLATE ON OUTLET BOX.
5. REMOVE ABANDONED MOTOR STARTER AND BRANCH CIRCUITRY BACK TO POINT OF ORIGIN.
6. DISCONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. REMOVE HOMERUN BACK TO INDICATED PANEL. LABEL CIRCUIT BREAKER IN PANEL "SPARE" IN PANEL INDEX.
7. REMOVE JUNCTION BOX AND DUPLEX RECEPTACLE. REMOVE BRANCH CIRCUITRY AND SURFACE RACEWAY. PROVIDE NEW BRANCH CIRCUITRY AND CONNECT TO EXISTING RECEPTACLES TO REMAIN AS REQUIRED.
8. REMOVE DUPLEX RECEPTACLES. REMOVE BRANCH CIRCUITRY BACK TO POINT OF ORIGIN OR LAST DEVICE TO REMAIN. PROVIDE NEW BRANCH CIRCUITRY AND CONNECT TO EXISTING RECEPTACLES TO REMAIN AS REQUIRED.
9. EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
10. REMOVE CONDUCTORS THAT SERVED EXISTING DISHWASHER BACK TO CIRCUIT BREAKER IN PANEL "LP7" AND LABEL CIRCUIT BREAKER "SPARE" IN PANEL INDEX. REMOVE FLEXIBLE CONDUIT BACK TO WALL AND ABANDON REMAINING CONDUIT IN PLACE.
11. DISCONNECT ELECTRICAL CONNECTION TO EXISTING WASTE WATER PUMP. SAVE EXISTING BRANCH CIRCUITRY FOR REUSE.
12. ELECTRICAL CONNECTION TO EXISTING WATER HEATER TO REMAIN.



OVERALL DEMOLITION FLOOR PLAN - POWER 1

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

MARK	DATE	REVISIONS	BY
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DATE	01/23/2025
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DRAWING: OVERALL DEMOLITION FLOOR PLAN - POWER

SHEET
ED-201

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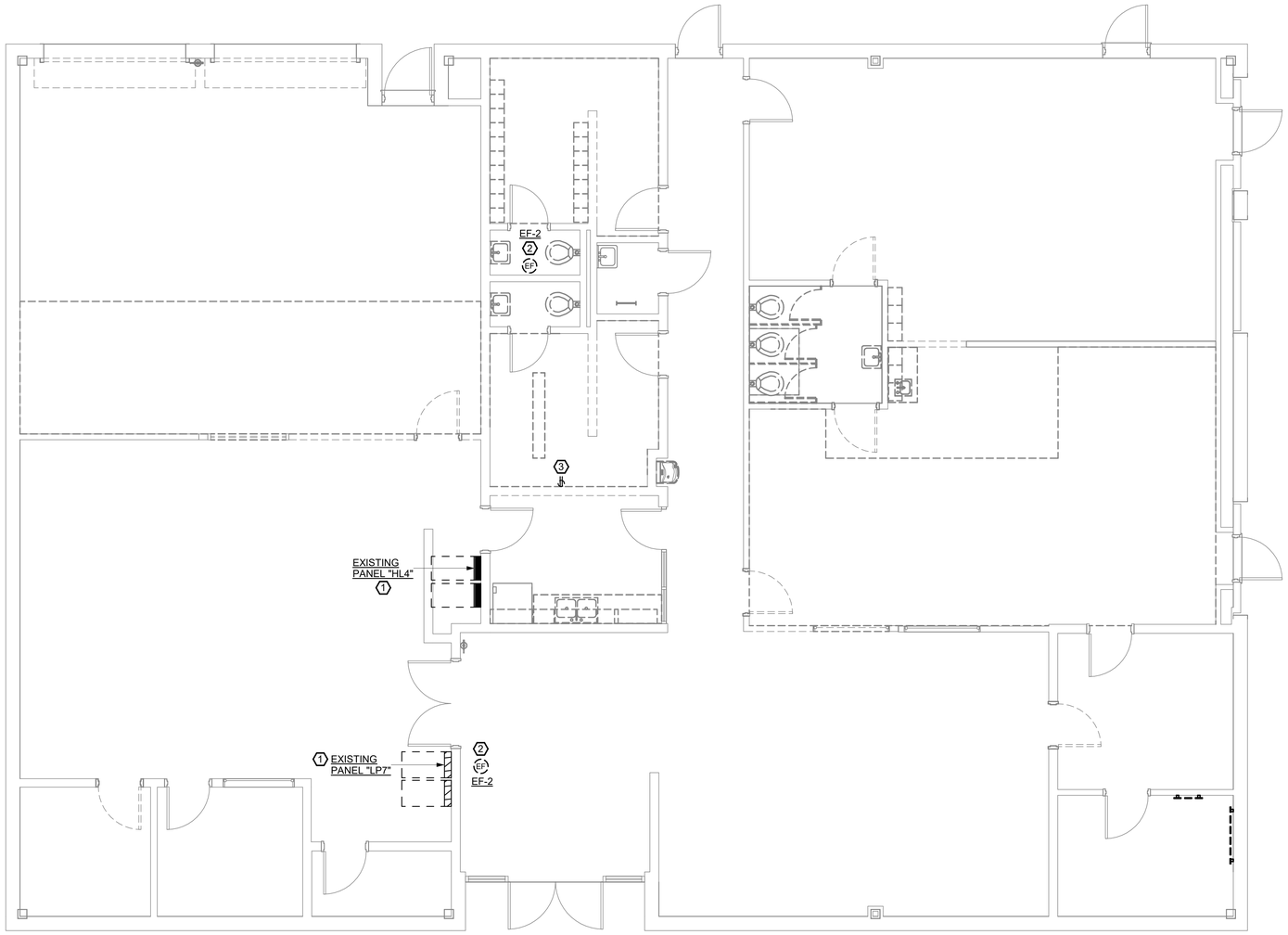
DEMOLITION NOTES: (THIS DRAWING ONLY)

1. EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
2. DISCONNECT ELECTRICAL CONNECTION TO EXHAUST FAN. SAVE EXISTING BRANCH CIRCUITRY FOR REUSE.
3. REMOVE RECEPTACLE AND BRANCH CIRCUITRY ABOVE THE CEILING. SAVE REMAINING BRANCH CIRCUITRY FOR REUSE.



OVERALL DEMOLITION FLOOR PLAN - POWER ALT 01

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

MARK	DATE	REVISIONS	BY
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DATE	01/23/2025
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DRAWING: OVERALL DEMOLITION ROOF PLAN - POWER ALT 01

SHEET
ED-202

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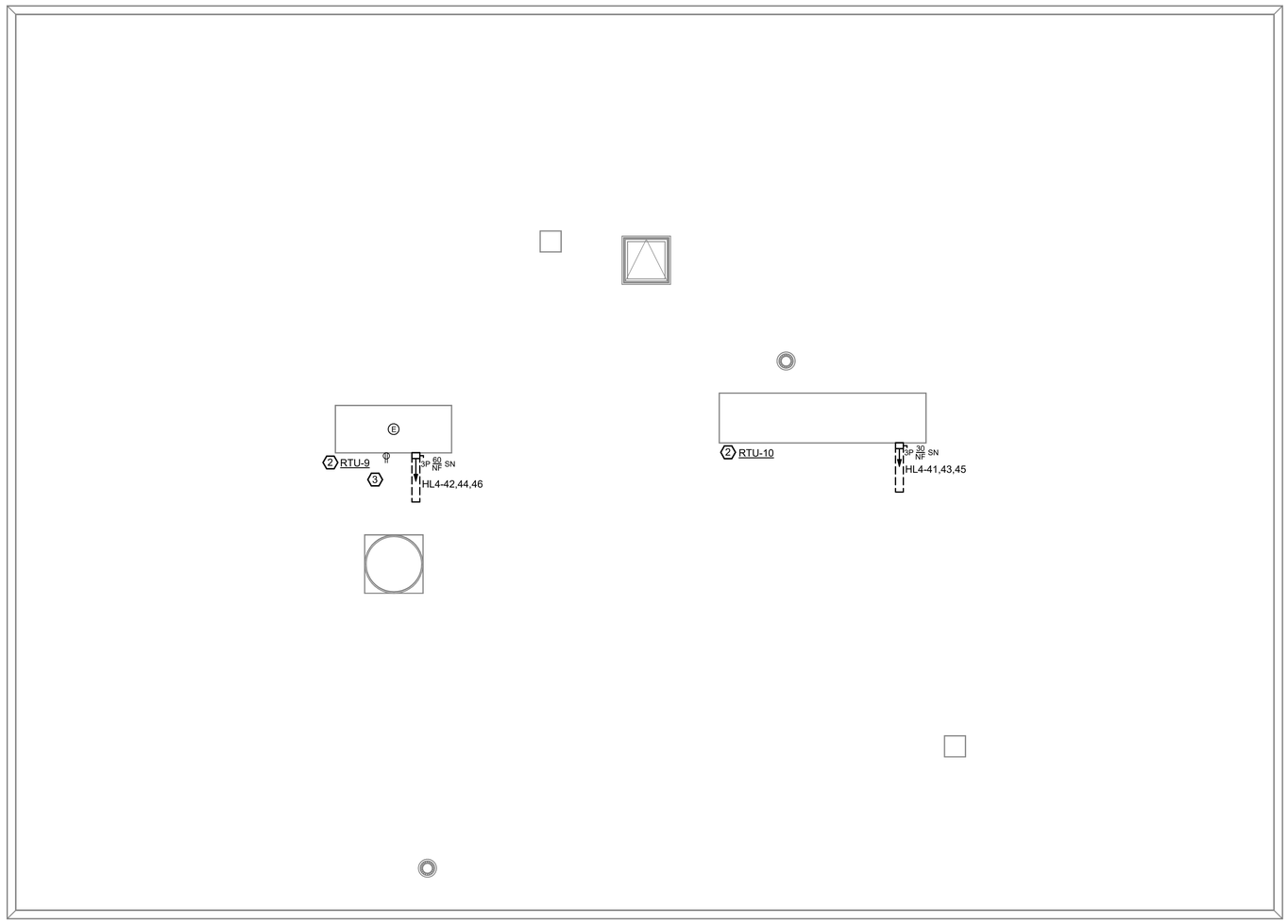
DEMOLITION NOTES: (THIS DRAWING ONLY)

1. SEE DRAWING ED201 FOR LOCATION OF PANEL "HL4".
2. DISCONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. REMOVE DISCONNECT SWITCH AND HOMERUN TO PANEL. LABEL CIRCUIT BREAKER "SPARE" IN PANEL INDEX.
3. REMOVE GFI/WP RECEPTACLE AND OUTLET BOX. REMOVE BRANCH CIRCUITRY TO BELOW ROOF AND SAVE REMAINING BREANCH CIRCUITRY FOR REUSE.



OVERALL DEMOLITION ROOF PLAN - POWER 1

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

MARK	DATE	REVISIONS BY	DESCRIPTION

DATE	01/23/2025
PROJECT	21222-21
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DRAWING
OVERALL DEMOLITION ROOF PLAN - POWER

SHEET
ED-203

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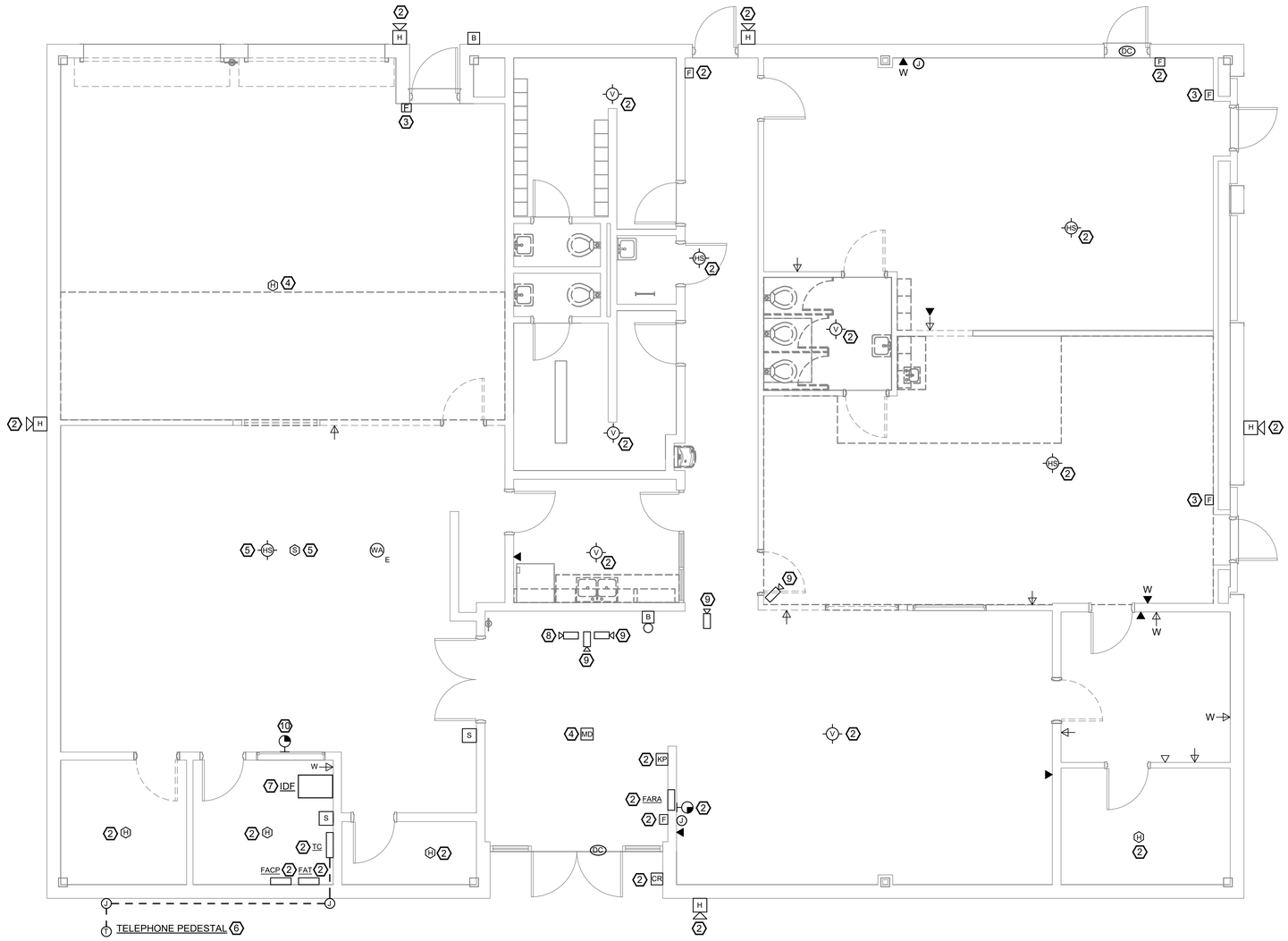
DEMOLITION NOTES: (THIS DRAWING ONLY)

1. REMOVE ALL ABANDONED DATA CABLING FROM ABOVE ALL ACCESSIBLE CEILINGS AND ALL AREAS WITH EXPOSED CONSTRUCTION. REMOVE ALL TELEPHONE OUTLETS, DATA OUTLETS, AND WIRELESS ACCESS DEVICES. TURN WIRELESS ACCESS DEVICES OVER TO THE OWNER. REMOVE ALL EXISTING DATA CABLES BACK TO EXISTING IDF RACK. REMOVE ALL SURFACE RACEWAY AND OUTLET BOXES AND PROVIDE BLANK COVERPLATES ON ALL FLUSH OUTLET BOXES. THE SECURITY SYSTEM KEYPAD, ALL DOOR CONTACTS, AND ALL SECURITY SYSTEM WIRING SHALL REMAIN. REMOVE ALL WALL MOUNTED INTERCOM SYSTEM SPEAKERS AND WIRING BACK TO POINT OF ORIGIN U.O.N. REMOVE ALL ABANDONED INTERIOR AND EXTERIOR CLASS CHANGE BELLS AND WIRING. PROVIDE BLANK COVERPLATES ON OUTLET BOXES.
2. EXISTING AUXILIARY SYSTEM DEVICE TO REMAIN.
3. REMOVE FIRE ALARM PULL STATION, EXPOSED OUTLET BOX, CONDUIT AND FIRE ALARM WIRING UP TO ABOVE CEILING. CONNECT WIRING ABOVE CEILING TO MAINTAIN FIRE ALARM LOOP.
4. REMOVE DAMAGED ACCESS CONTROL SYSTEM MOTION DETECTOR. SAVE ACCESS CONTROL WIRING FOR REUSE.
5. REMOVE FIRE ALARM DEVICE AND SAVE FOR REUSE. SAVE FIRE ALARM WIRING FOR REUSE TO FACP.
6. EXISTING TELEPHONE PEDESTAL AND TELEPHONE SERVICE TO THE BUILDING SHALL REMAIN.
7. REMOVE EXISTING IDF CABINET. TURN EXISTING TELEPHONE SWITCH OVER TO OWNER.
8. EXISTING CCTV CAMERA TO REMAIN.
9. REMOVE CCTV CAMERA AND WIRING BACK TO POINT OF ORIGIN.
10. REMOVE INTERCOM SYSTEM CLOCK AND SAVE FOR REUSE. REMOVE DATA CABLING BACK TO POINT OF ORIGIN AND PROVIDE BLANK COVERPLATE ON OUTLET BOX.



OVERALL DEMOLITION FLOOR PLAN - AUXILIARY SYSTEMS 1

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

MARK	DATE	REVISIONS DESCRIPTION	BY

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	DWC
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DRAWING: OVERALL DEMOLITION FLOOR PLAN - AUXILIARY SYSTEMS

SHEET
ED-301

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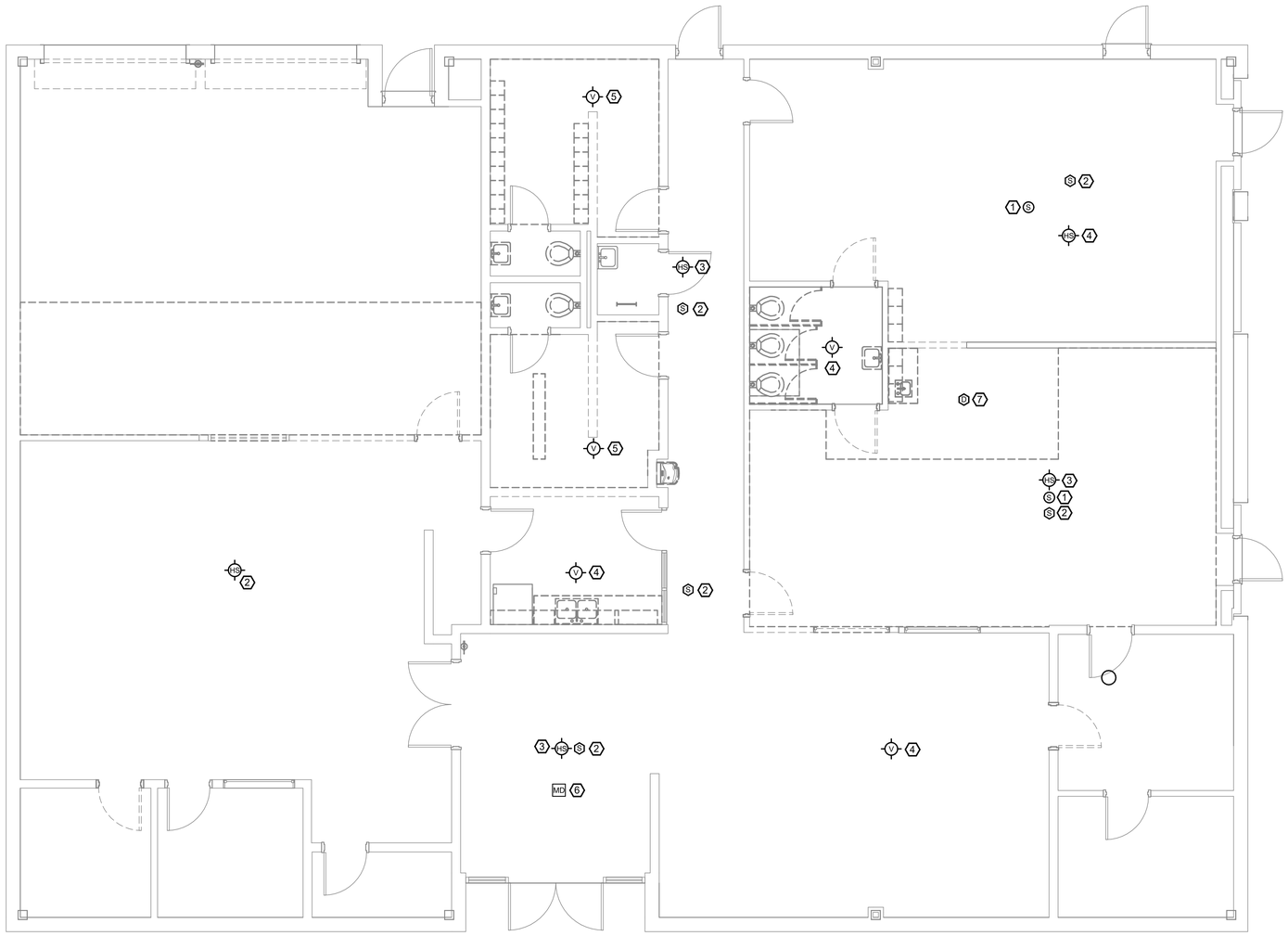
DEMOLITION NOTES: (THIS DRAWING ONLY)

1. REMOVE SPEAKER AND SAVE FOR REUSE. SAVE INTERCOM WIRING FOR REUSE.
2. REMOVE FIRE ALARM SMOKE DETECTOR AND SAVE FOR REUSE. SAVE FIRE ALARM WIRING FOR REUSE.
3. REMOVE FIRE ALARM AUDIO/VISUAL DEVICE AND SAVE FOR REUSE. SAVE FIRE ALARM WIRING FOR REUSE.
4. REMOVE FIRE ALARM VISUAL DEVICE AND SAVE FOR REUSE. SAVE FIRE ALARM WIRING FOR REUSE.
5. EXISTING FIRE ALARM VISUAL DEVICE TO REMAIN.
6. REMOVE MOTION DETECTOR AND SAVE SECURITY SYSTEM WIRING FOR REUSE.
7. REMOVE DUCT SMOKE DETECTOR, SAMPLING TUBES, AND REMOTE TEST STATION. SAVE FIRE ALARM BRANCH CIRCUITRY FOR REUSE.



OVERALL DEMOLITION FLOOR PLAN - AUXILIARY SYSTEMS ALT 01

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

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DATE	01/23/2025
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DRAWING
OVERALL DEMOLITION FLOOR PLAN - AUXILIARY SYSTEMS ALT 01

SHEET
ED-302

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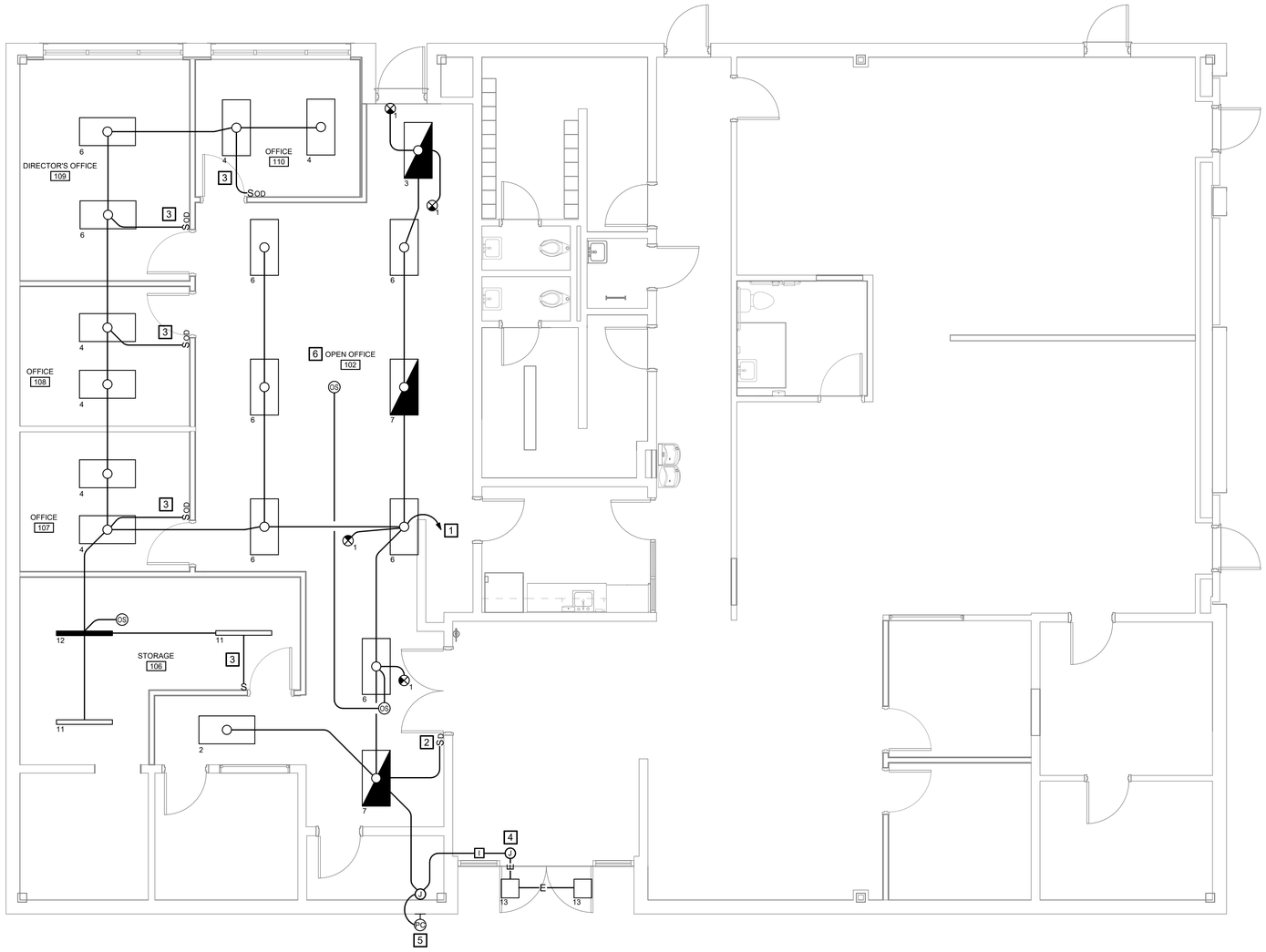
NEW WORK NOTES: (THIS DRAWING ONLY)

1. CONNECT HOMERUN TO 20A-1P CIRCUIRT BREAKER IN PANEL "HL4" MADE SPARE DURING DEMOLITION. CHANGE PANEL INDEX TO REFLECT LOAD SERVED.
2. INSTALL DIMMER SWITCH IN EXISTING FLUSH MOUNTED OUTLET BOX SAVED DURING DEMOLITION. EXTEND EXISTING SWITCHLEG CONDUIT TO LIGHT FIXTURE AND PROVIDE 2 #12 CONDUCTORS TO POWER SWITCH.
3. PROVIDE BRANCH CIRCUITRY TO POWER SWITCH FROM LIGHTING CIRCUIT.
4. INSTALL JUNCTION BOX ON THE END OF EXISTING LIGHTING BRANCH CIRCUITRY SAVED DURING DEMOLITION, CONNECT NEW BRANCH CIRCUITRY TO EXISTING IN JUNCTION BOX.
5. PROVIDE PHOTOCELL IN WEATHERPROOF SURFACE MOUNTED OUTLET BOX @ +9'-0" A.F.F. CORE DRILL THROUGH EXTERIOR WALL FOR INSTALLATION OF CONDUIT. SEAL AROUND CONDUIT THROUGH WALL ON BOTH ENDS TO MAKE WATER-TIGHT TO THE SATISFACTION OF THE ARCHITECT.
6. INTERLOCK OCCUPANCY SENSORS IN THIS ROOM SUCH THAT THE ACTIVATION OF EITHER SENSOR WILL ENERGIZE THE LIGHTING CIRCUIT FOR THE SPACE.



OVERALL NEW WORK FLOOR PLAN - LIGHTING

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

DESCRIPTION	
BY	
MARK DATE	REVISIONS
DATE	01/23/2025
PROJECT	21222-21
DESIGNED	DWC
DRAWN	MWH
CHECKED	KC

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COMMONWEALTH OF VIRGINIA
KENZIE CAMBAR
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01.23.2025
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PROJECT: SUFFOLK PUBLIC SCHOOLS
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DRAWING: OVERALL NEW WORK FLOOR PLAN - LIGHTING

SHEET
E-101

THOMPSON
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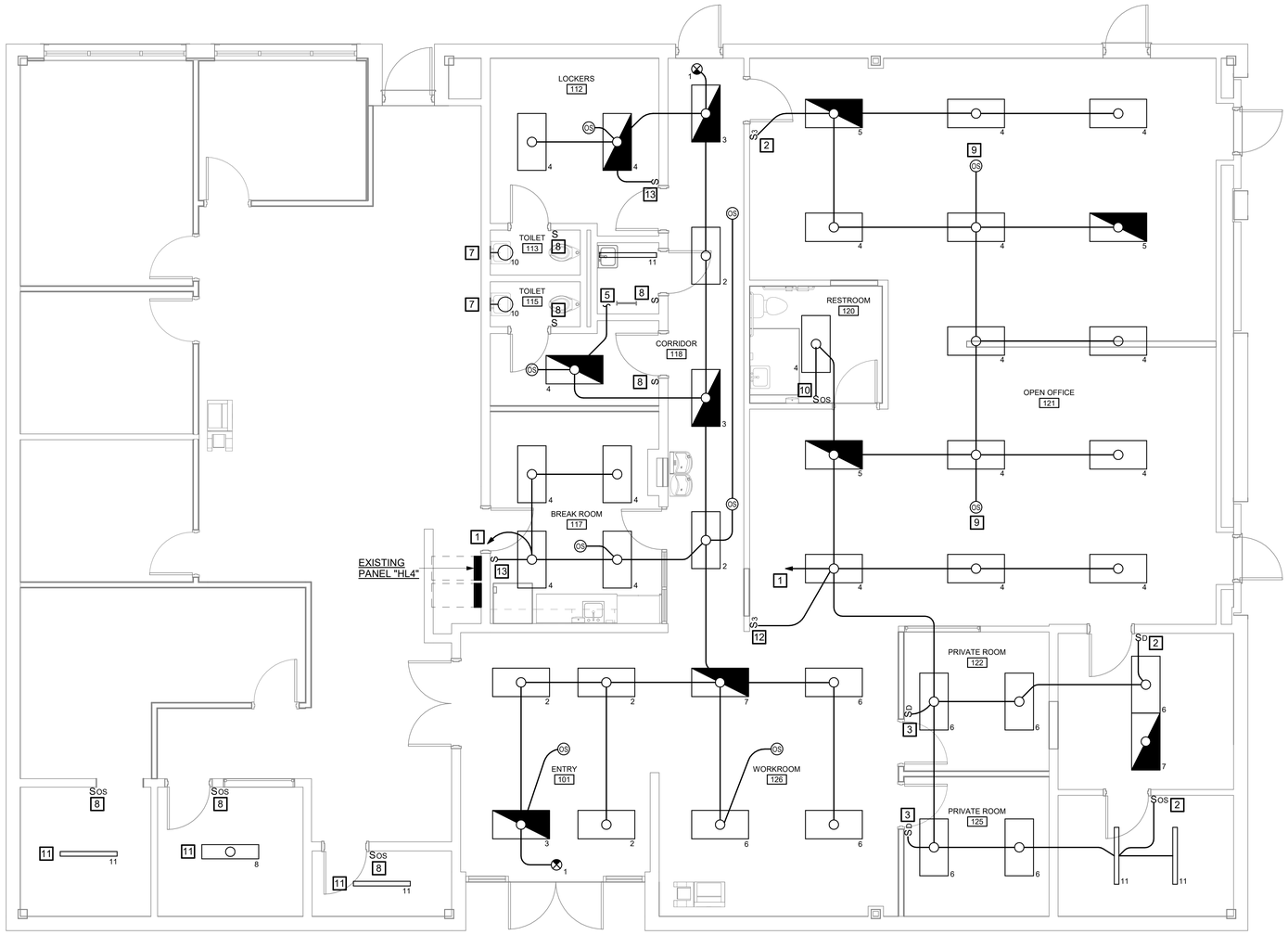
GLEN ALLEN, VA 23060
VA BEACH, VA 23452
PROJECT #16-092

NEW WORK NOTES: (THIS DRAWING ONLY)

1. CONNECT HOMERUN TO 20A-1P CIRCUIT BREAKER IN PANEL "HL4" MADE SPARE DURING DEMOLITION. CHANGE PANEL INDEX TO REFLECT LOAD SERVED.
2. INSTALL SWITCHES IN EXISTING FLUSH MOUNTED OUTLET BOX SAVED DURING DEMOLITION. EXTEND EXISTING SWITCHLEG CONDUITS TO LIGHT FIXTURE AND PROVIDE 2 #12 CONDUCTORS TO POWER SWITCH.
3. PROVIDE BRANCH CIRCUITRY TO POWER SWITCH FROM LIGHTING CIRCUIT.
4. INSTALL JUNCTION BOX ON THE END OF EXISTING LIGHTING BRANCH CIRCUITRY SAVED DURING DEMOLITION, CONNECT NEW BRANCH CIRCUITRY TO EXISTING IN JUNCTION BOX.
5. PROVIDE NEW BRANCH CIRCUITRY AND CONNECT TO EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION.
6. INSTALL LIGHT FIXTURE ON CEILING MOUNTED OUTLET BOX AND CONNECT TO EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION.
7. INSTALL LIGHT FIXTURE ON WALL MOUNTED OUTLET BOX AND CONNECT TO EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION.
8. INSTALL LIGHT SWITCH IN EXISTING FLUSH MOUNTED OUTLET BOX SAVED DURING DEMOLITION. CONNECT SWITCH TO EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION.
9. INTERLOCK OCCUPANCY SENSORS IN THIS ROOM SUCH THAT THE ACTIVATION OF EITHER SENSOR WILL ENERGIZE THE LIGHTING CIRCUIT FOR THE SPACE.
10. INSTALL SWITCH IN WIREMOLD SURFACE METAL OUTLET BOX. PROVIDE WIREMOLD SURFACE METAL RACEWAY FROM OUTLET BOX TO ABOVE THE CEILING. CONVERT RACEWAY TO CONDUIT ABOVE CEILING AND EXTEND BRANCH CIRCUIT TO LIGHT FIXTURE.
11. CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION.
12. PROVIDE LIGHT SWITCH IN WIREMOLD SURFACE METAL OUTLET BOX. PROVIDE CONDUCTORS IN WIREMOLD SURFACE METAL RACEWAY FROM OUTLET BOX AND EXTEND UP TO ABOVE THE CEILING. CONVERT RACEWAY TO CONDUIT ABOVE CEILING AND EXTEND TO NEW LIGHT FIXTURE.
13. INSTALL LIGHT SWITCH IN EXISTING OUTLET BOX SAVED DURING DEMOLITION. EXTEND SWITCHLEG CONDUIT SAVED DURING DEMOLITION TO LIGHT FIXTURE AND PROVIDE SWITCHLEG CONDUCTORS AS REQUIRED.



OVERALL NEW WORK FLOOR PLAN - LIGHTING ALT 01

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

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	01/23/2025
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DESIGNED	DWC
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DRAWING
OVERALL NEW WORK FLOOR PLAN - LIGHTING ALT 01

SHEET
E-102

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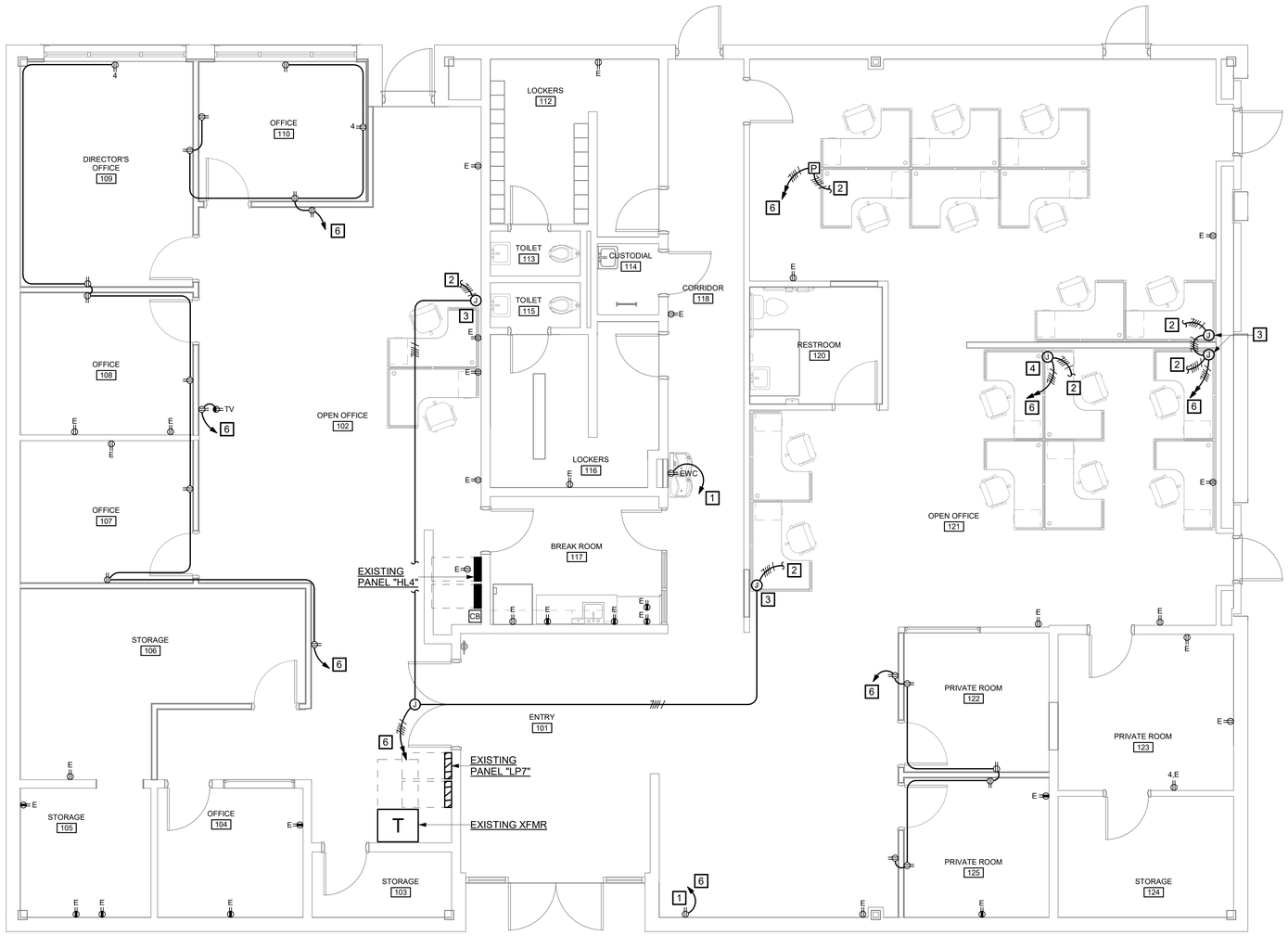
NEW WORK NOTES: (THIS DRAWING ONLY)

1. REMOVE EXISTING 20A-1P CIRCUIT BREAKER SERVING EWC AND TURN OVER TO OWNER. PROVIDE 20A-1P GFCI TYPE CIRCUIT BREAKER AND INSTALL IN SPACE. MATCH K.A.I.C. RATING OF EXISTING CIRCUIT BREAKERS IN PANEL. PANEL "LB7" IS A GENERAL ELECTRIC TYPE "NLAB" PANEL.
2. PROVIDE BRANCH CIRCUITRY IN FLEXIBLE METAL CONDUIT AND CONNECT TO WIRING IN MODULAR FURNITURE. COORDINATE REQUIREMENTS WITH MODULAR FURNITURE PROVIDER.
3. PROVIDE WIREMOLD SINGLE GANG SURFACE METAL JUNCTION BOX. INSTALL AT FLOOR AS DIRECTED BY MODULAR FURNITURE PROVIDER. PROVIDE CONDUCTORS IN WIREMOLD SURFACE METAL RAEWAY FROM JUNCTION BOX TO ABOVE THE CEILING. CONVERT RACEWAY TO CONDUIT ABOVE CEILING AND EXTEND BRANCH CIRCUIT AS INDICATED.
4. PROVIDE WIREMOLD SINGLE GANG SURFACE METAL JUNCTION BOX. INSTALL AT FLOOR AS DIRECTED BY MODULAR FURNITURE PROVIDER. PROVIDE CONDUCTORS IN WIREMOLD SURFACE METAL RACEWAY FROM JUNCTION BOX AND EXTEND TO EXTERIOR WALL. TURN RACEWAY UP AT EXTERIOR WALL AND EXTEND TO ABOVE THE CEILING. CONVERT RACEWAY TO CONDUIT ABOVE CEILING AND EXTEND BRANCH CIRCUIT TO PANEL.
5. REMOVE FIVE (5) 20A-3P CIRCUIT BREAKER MADE SPARE DURING DEMOLITION. PROVIDE FIFTEEN (15) 20A-1P CIRCUIT BREAKERS AND INSTALL IN SPACES. MATCH K.A.I.C. SPACE RATINGS OF EXISTING CIRCUIT BREAKERS IN PANEL. PANEL "LP7" IS A GENERAL ELECTRIC TYPE "NLAB" PANEL.
6. CONNECT HOMERUN(S) TO 20A-1P CIRCUIT BREAKER(S) PROVIDED BY NEW WORK NOTE 5. CHANGE PANEL INDEX TO REFLECT LOAD SERVED.



OVERALL NEW WORK FLOOR PLAN - POWER

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

DESCRIPTION	BY	DATE	MARK
REVISIONS			

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	DWC
DRAWN	MWH
CHECKED	KC

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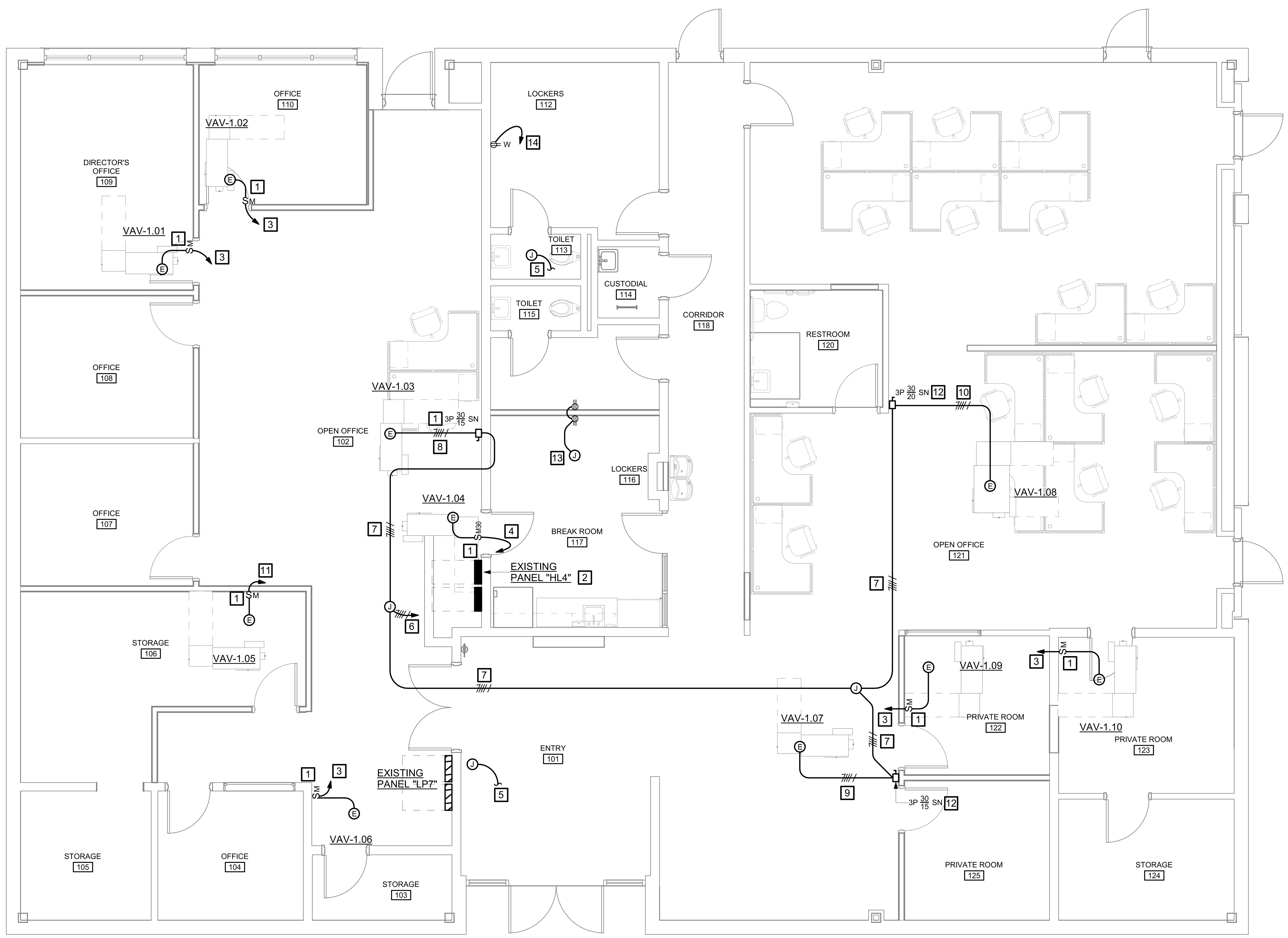
DRAWING
OVERALL NEW WORK FLOOR PLAN - POWER

SHEET
E-201

NEW WORK NOTES:

(THIS DRAWING ONLY)

1. INSTALL MOTOR RATED SWITCH / DISCONNECT SWITCH ON WALL ABOVE CEILING. MAINTAIN WORKING CLEARANCES AROUND MECHANICAL EQUIPMENT.
2. PROVIDE SIX (6) 15A-1P CIRCUIT BREAKERS, ONE (1) 25A-1P CIRCUIT BREAKER, ONE (1) 20A-1P CIRCUIT BREAKER, AND ONE (1) 30A-3P CIRCUIT BREAKER AND INSTALL IT IN AVAILABLE SPACES IN PANEL. REMOVE AND REPLACE 3 POLE CIRCUIT BREAKER #41, 43, 45 SERVING EXISTING RTU-10 WITH A NEW 70A-3P CIRCUIT BREAKER TO SERVE NEW RTU-9. MATCH K.A.I.C. RATING OF EXISTING CIRCUIT BREAKERS IN PANEL. PANEL "H4" IS A 400 AMP, 480Y/277 VOLT, 3 PHASE, 4 WIRE GENERAL ELECTRIC TYPE NAB PANEL.
3. CONNECT HOMERUN TO NEW 15A-1P CIRCUIT BREAKER IN PANEL "H4L" PROVIDED BY NEW WORK NOTE 2. CHANGE PANEL INDEX TO REFLECT LOAD SERVED.
4. CONNECT HOMERUN TO NEW 25A-1P CIRCUIT BREAKER IN PANEL "H4L" PROVIDED BY NEW WORK NOTE 2. CHANGE PANEL INDEX TO REFLECT LOAD SERVED. PROVIDE 2 #10 AND 1 #10 GROUND IN 1/2" CONDUIT.
5. PROVIDE JUNCTION BOX ON THE END OF EXISTING EXHAUST FAN BRANCH CIRCUITRY SAVED DURING DEMOLITION. EXTEND BRANCH CIRCUITRY UP TO NEW EXHAUST FAN ON ROOF.
6. PROVIDE 4 #10 AND 1 #10 GROUND IN 1/2" CONDUIT. CONNECT TO NEW 30A-3P CIRCUIT BREAKER IN PANEL "H4" PROVIDED BY NEW WORK NOTE 2.
7. PROVIDE 4 #10 AND 1 #10 GROUND IN 1/2" CONDUIT.
8. PROVIDE 4 #10 AND 1 #10 GROUND IN 1/2" CONDUIT. CONNECT VAV BOX FAN TO PHASE A CONDUCTOR AND NEUTRAL IN BRANCH CIRCUIT.
9. PROVIDE 4 #10 AND 1 #10 GROUND IN 1/2" CONDUIT. CONNECT VAV BOX FAN TO PHASE B CONDUCTOR AND NEUTRAL IN BRANCH CIRCUIT.
10. PROVIDE 4 #10 AND 1 #10 GROUND IN 1/2" CONDUIT. CONNECT VAV BOX FAN TO PHASE C CONDUCTOR AND NEUTRAL IN BRANCH CIRCUIT.
11. CONNECT HOMERUN TO NEW 20A-1P CIRCUIT BREAKER PROVIDED BY NEW WORK NOTE 2.
12. PROVIDE UNISTRUT ABOVE CEILING FOR MOUNTING DISCONNECT SWITCH. ATTACH UNISTRUT TO EXISTING ROOF STRUCTURE. MAINTAIN NEC REQUIRED WORKING CLEARANCE AROUND DISCONNECT SWITCH.
13. PROVIDE JUNCTION BOX ON THE END OF EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION. PROVIDE NEW BRANCH CIRCUITRY FROM JUNCTION BOX AND CONNECT TO NEW RECEPTACLES.
14. CONNECT HOMRUN TO 20A-1P CIRCUIT BREAKER PROVIDED BY NEW WORK NOTE 5. CHANGE PANEL INDEX TO REFLECT LOAD SERVED.



OVERALL NEW WORK FLOOR PLAN - POWER ALT 01

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

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DRAWN	MWH
CHECKED	KC

PROJECT: SUFFOLK PUBLIC SCHOOLS
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DRAWING: OVERALL NEW WORK FLOOR PLAN - POWER ALT 01

SHEET E-202

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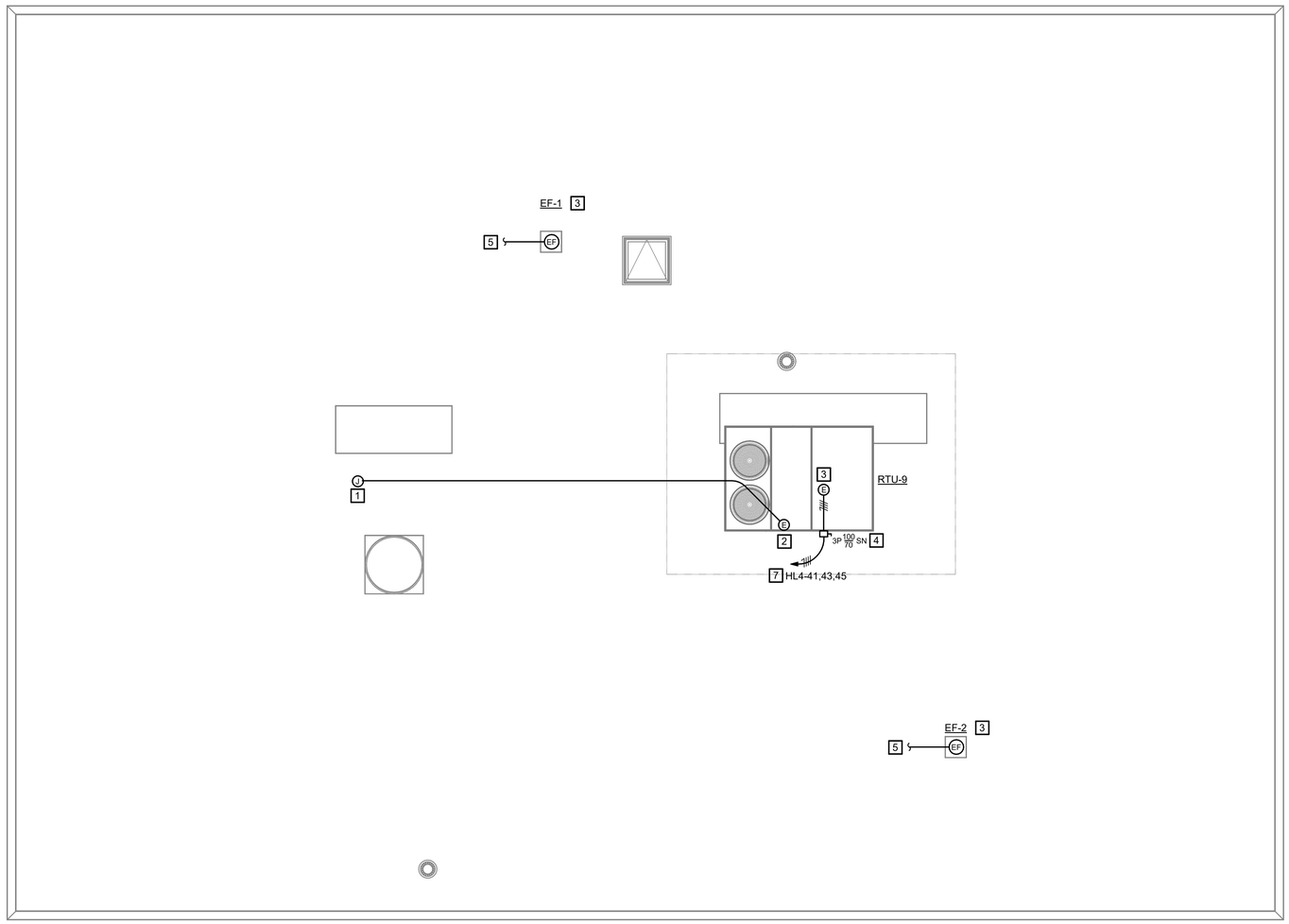
NEW WORK NOTES: (THIS DRAWING ONLY)

1. PROVIDE JUNCTION BOX ON END OF EXISTING ROOF RECEPTACLE BRANCH CIRCUITRY SAVED DURING DEMOLITION. PROVIDE BRANCH CIRCUITRY FROM NEW JUNCTIUON BOX, BELOW ROOF TO NEW RTU-9.
2. PROVIDE ELECTRICAL CONNECTION TO RECEPTACLE PROVIDED WITH MECHANICAL EQUIPMWENT. COORDINATE EXACT LOCATION WITH EQUIPMENT PROVIDER. RUN RBANCH CIRCUITRY SERVING RECEPTACLE UP THROUGH ROOF CURB AND THROUGH MECHANICAL EQUIPMENT AS DIRECTED BY THE EQUIPMENT PROVIDER.
3. PROVIDE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT.
4. INSTALL DISCONNECT SWITCH ON NON-REMOVABLE PANEL ON MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH EQUIPMENT PROVIDER.
5. DOWN TO NEW JUNCTION BOX. SEE DRAWING E-202 FOR CONTINUATION.
6. SEE DRAWING E-202 FOR LOCATION OF PANEL "HL4".
7. PROVIDE 3 #4 AND 1 #8 GROUND IN 1-1/4" CONDUIT. TERMINATE IN NEW 70A-3P CIRCUIT BREAKER PROVIDED BY NEW WORK NOTE 2 ON DRAWING E-202.



OVERALL NEW WORK ROOF PLAN - POWER ALT 01 6

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

MARK	DATE	REVISIONS	BY
		DESCRIPTION	

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	DWC
DRAWN	MWH
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DRAWING
OVERALL NEW WORK ROOF PLAN - POWER ALT 01

SHEET
E-203

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"

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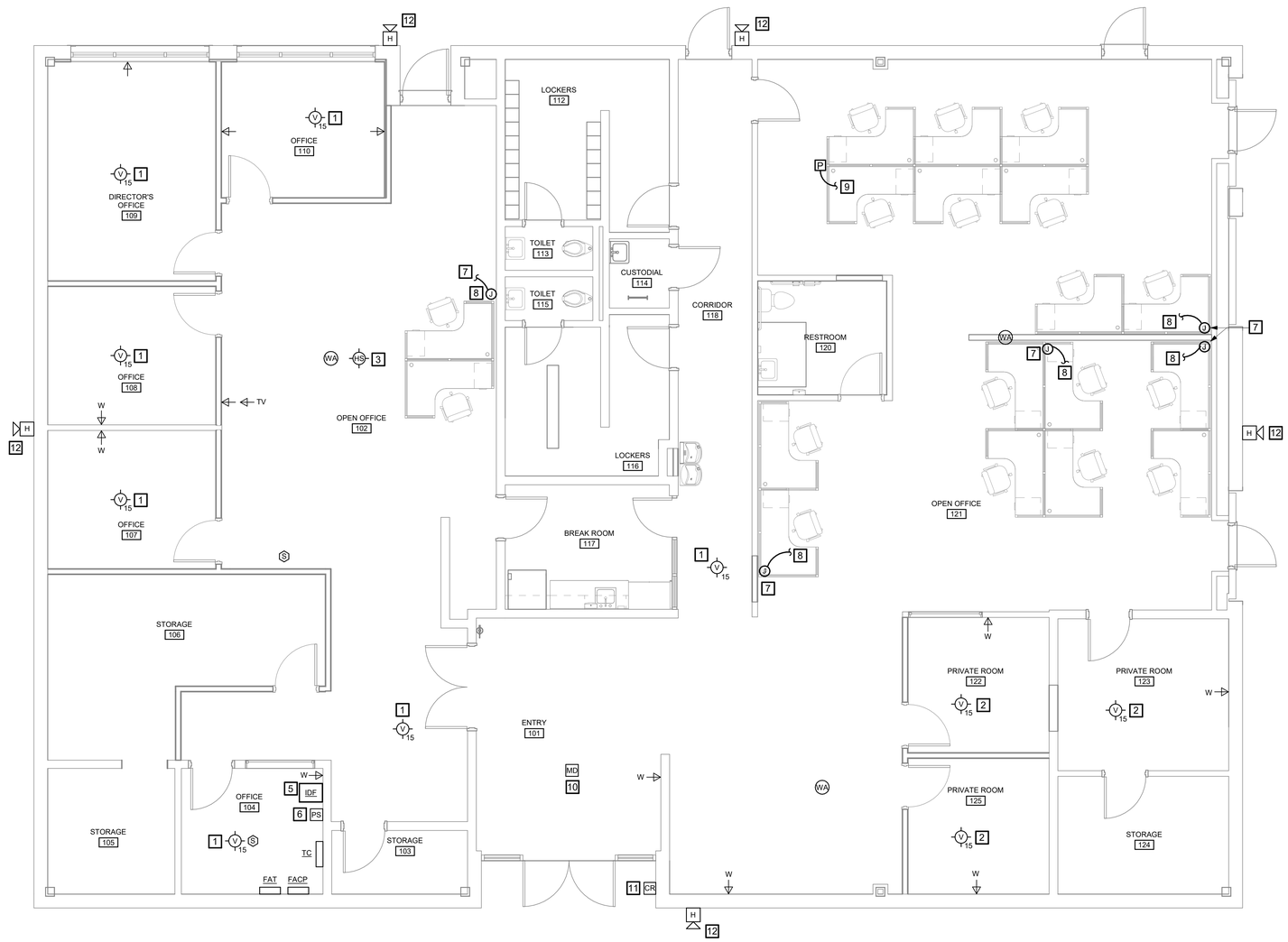

OVERALL NEW WORK FLOOR PLAN - AUXILIARY SYSTEMS

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

NEW WORK NOTES: (THIS DRAWING ONLY)

1. INSTALL NEW FIRE ALARM DEVICE FLUSH IN NEW CEILING. PROVIDE NEW FIRE ALARM WIRIING TO CONNECT DEVICE TO EXISTING SIGNALLING LOOP.
2. PROVIDE NEW FIRE ALARM DEVICE FLUSH WITH SURFACE BACKBOX. INSTALL DEVICE SURFACE MOUNTED ON EXISTING CEILING. PROVIDE NEW FIRE ALARM WIRIING TO CONNECT DEVICE TO EXISTING SIGNALLING LOOP.
3. INSTALL EXISTING FIRE ALARM DEVICE SAVED DURING DEMOLTION FLUSH IN NEW CEILING. PROVIDE NEW FIRE ALARM WIRIING TO CONNECT DEVICE TO EXISTING SIGNALLING LOOP.
4. PROVIDE CAT6 PLENUM RATED DATA CABLING GTOM ALL DATA OUTLETS ON THE FLOOR PLAN TO THE NEW IDF IN ROOM 108.
5. PROVIDE NEW IDF RACK - CHATSWORTH PRODUCTS CATALOG NUMBER 11840-724 OR APPROVED EQUAL. INSTALL DATA RACK IN SAME LOCATION AS EXISTING. PROVIDE IDF RACK WITH EATON CATALOG NUMBER SP1500RC UPS. INSTALL UPS IN BOTTOM OF IDF RACK AND PLUG UPS INTO EXISTING DUPLEX RECEPTACLE. PROVIDE IDF RACK WITH ONE (1) 48 PORT PATCH PANEL INSTALLED IN TOP OF RACK. INSTALL OWNER FURNISHED NETWORK SWITCH IN IDF RACK. CONNECT SWITCH TO PATCH PANEL AND EXISTING TELEPHONE SERVICE AS DIRECTED BY THE OWNER AND THE TELEPHONE SERVICE PROVIDER.
6. DISCONNECT AND REMOVE EXISTING POWER SUPPLY FOR MAIN ENTRY DOOR ACCESS CONTROL. REINSTALL POWER SUPPLY TO CLEAR NEW IDF RACK AND RECONNECT TO EXISTING ACCESS CONTROL WIRING.
7. PROVIDE TWO GANG WIREMOLD SURFACE METAL JUNCTION BOX WITH BLANK STAINLESS STEEL COVERPLATE. INSTALL JUNCTION BOX AT FLOOR AS DIRECTED BY MODULAR FURNITURE PROVIDER. PROVIDE WIREMOLD SURFACE METAL RACEWAY FROM JUNCTION BOX AND TERMINATE ABOVE CEILING.
8. PROVIDE TWO (2) CAT6 CABLE FOR EACH WORKSTATION. RUN CABLE IN WIREMOLD SURFACE METAL RACEWAY AND RACEWAY FURNISHED AS PART OF THE MODULAR FURNITURE. CONNECT CABLE TO DATA/TELEPHONE OUTLET PROVIDED WITH THE MODULAR FURNITURE.
9. PROVIDE ONE (1) CAT6 CABLE FOR EACH WORKSTATION. RUN CABLE IN LOW VOLTAGE COMPARTMENT OF TELE/POWER POLE AND RACEWAY FURNISHED AS PART OF THE MODULAR FURNITURE. CONNECT CABLE TO DATA/TELEPHONE OUTLET PROVIDED WITH THE MODULAR FURNITURE.
10. PROVIDE NEW MOTION DETECTOR THAT IS COMPATIBLE WITH THE EXISTING ACCESS CONTROL SYSTEM IN THE BUILDING. INSTALL MOTION DETECTOR ON EXISTING CEILING AND CONNECT MOTION DETECTOR TO EXISTING ACCESS CONTROL WIRING SAVED DURING DEMIOLITION.
11. CONNECT WIRING FROM EXISTING INTERCOM STATION / CARD READER SAVED DURING DEMOLITION TO NEW TELEPHONE SYSTEM AS DIRECTED BY THE OWNER AND BUILDING TELEPHONE SYSTEM PROVIDER.
12. EXISTING REUSED.

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2809-S. LYNNHAVEN ROAD, VA BEACH, VA 23453
TELEPHONE: (757) 399-4433 PROJECT #24-092

MARK	DATE	REVISIONS
		DESCRIPTION
		BY

DATE	01/23/2025
PROJECT	21222-21
DESIGNED	DWC
DRAWN	MWH
CHECKED	KC

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DRAWING: OVERALL NEW WORK FLOOR PLAN - AUXILIARY SYSTEMS

SHEET
E-301

THOMPSON
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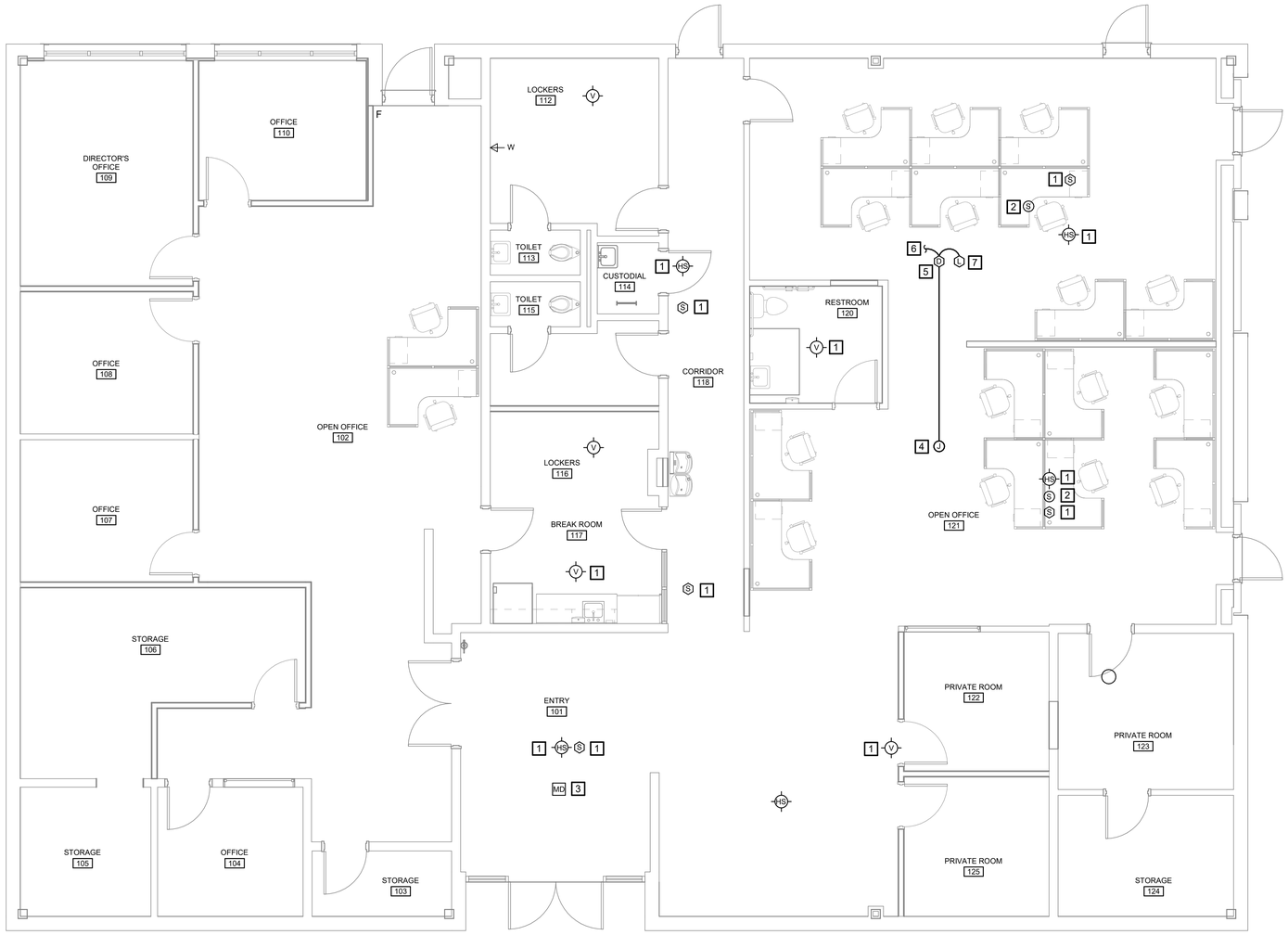
NEW WORK NOTES: (THIS DRAWING ONLY)

1. REINSTALL EXISTING FIRE ALARM DEVICE SAVED DURING DEMOLITION ON NEW CEILING. RECONNECT TO EXISTING FIRE ALARM WIRING SAVED DURING DEMOLITION.
2. REINSTALL EXISTING INTERCOM SYSTEM SPEAKER SAVED DURING DEMOLITION ON NEW CEILING. RECONNECT TO EXISTING FIRE ALARM WIRING SAVED DURING DEMOLITION.
3. PROVIDE NEW MOTION DETECTOR THAT IS COMPATIBLE WITH THE EXISTING ACCESS CONTROL SYSTEM IN THE BUILDING. INSTALL MOTION DETECTOR ON EXISTING CEILING AND CONNECT MOTION DETECTOR TO EXISTING ACCESS CONTROL WIRING SAVED DURING DEMOLITION.
4. PROVIDE JUNCTION BOX ON THE END OF EXISTING FIRE ALARM WIRING TO DUCT SMOKE DETECTOR SAVED DURING DEMOLITION. EXTEND NEW PLENUM RATED FIRE ALARM WIRING ABOVE CEILING TO RELOCATED DUCT SMOKE DETECTOR AND CONNECT AS REQUIRED.
5. TURN EXISTING DUCT SMOKE DETECTOR SAVED DURING DEMOLITION OVER TO MECHANICAL CONTRACTOR FOR INSTALLATION IN RETURN AIR DUCT. PROVIDE NEW SAMPLING TUBES FOR DUCT SMOKE DETECTOR. COORDINATE TUBE LENGTH WITH MECHANICAL CONTRACTOR.
6. PROVIDE CONTROL WIRING FROM DUCT SMOKE DETECTOR AND CONNECT TO RTU CONTROL PANEL AS REQUIRED FOR EQUIPMENT SHUT DOWN. COORDINATE WIRING REQUIREMENTS WITH EQUIPMENT PROVIDER.
7. INSTALL REMOTE INDICATING LIGHT/TEST SWITCH FLUSH IN CEILING BELOW DUCT SMOKE DETECTOR. PROVIDE FIRE ALARM WIRING AND CONNECT TO DUCT SMOKE DETECTOR. COORDINATE WIRING REQUIREMENTS WITH THE EXISTING FIRE ALARM SYSTEM MANUFACTURER.



OVERALL NEW WORK FLOOR PLAN - AUXILIARY SYSTEMS ALT 01

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

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DATE	01/23/2025
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DRAWING: OVERALL NEW WORK FLOOR PLAN - AUXILIARY SYSTEMS ALT 01

SHEET
E-302