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RENOVATIONS TO ALGER HALL

CYBER COMMAND CENTER

RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

CONSTRUCTION DOCUMENTS
30 AUGUST 2024

PROJECT KEYNOTES

05 50 00.01	METAL STUDS TYPICAL AT 4 CORNERS
05 70 00.01	MTL-1 PANEL; SEE MAT. LIST
05 70 00.02	MTL-2 PANEL; SEE MAT. LIST
05 70 00.03	MTL-3 CORNER TRIM; SEE MAT. LIST
05 70 00.04	MTL-4 TRIM RECESSED CAPITAL; SEE MAT. LIST
05 70 00.05	MTL-4 TRIM RECESSED BASE; SEE MAT. LIST
05 70 00.06	ARCH. GRILLE
05 70 00.07	1/16" ACRYLIC DIFFUSER; SEE MAT. LIST
06 10 00.01	WD BLKG AS REQ.
06 10 00.02	3/4" PLYWOOD BLOCKING
06 10 00.03	6" WD BLKG, ATTACHED TO DECK W/ SUITABLE FASTENERS
07 21 00.01	ACOUSTICAL BATT INSUL. FILL CAVITY
07 92 00.01	SEALANT
07 92 00.04	ACOUSTICAL SEALANT AT ENTIRE PERIMETER OF WALL,TYP.
08 11 10.01	HM DR FRAME; DR & FRAME SCHEDULE
08 11 10.02	HM-1 - SEE FRAME TYPES
08 14 00.01	DR-1 (WD-1) - SEE DR & FRAME SCHEDULE & MAT. LIST
09 21 10.01	5/8" GWB
09 21 10.02	5/8" GWB APPLIED TO EXG STUDS
09 21 10.04	(2) LAYERS, 5/8" GWB
09 21 10.05	CORNER BEAD
09 21 10.06	ETR GWB, PATCH AS REQ.
09 22 16.01	3-1/2" MTL FRAMING AT 16" O.C., U.N.O
09 22 16.02	3-5/8" MTL FRAMING AT 16" O.C., U.N.O.
09 22 16.03	NON-LOAD-BEARING STL FRAMING SYS. FOR INT. PTN
09 22 16.04	HANGER WIRE
09 22 16.05	GRID SUSP. SYS. FOR GWB CLG
09 22 16.06	3-1/2" MTL RUNNER IN WINDOW OPNG
09 22 16.07	3-1/2" MTL RUNNER
09 22 16.08	3-5/8" MTL FRAMING AT 12" O.C.
09 22 16.09	MTL FRAMING AS REQ. SECURE TO STRUCT ABV
09 22 16.10	BRACE AS REQ. OR AT EVERY 4' O.C.
09 22 16.11	3 5/8" MTL RUNNER CONTINUOUS
09 51 00.01	ACT; SEE RCP FOR ACT TYPE & MAT. LIST
09 51 00.02	CLG GRID; SEE RCP FOR GRID TYPE & MAT. LIST
09 51 00.03	ACT-1; SEE RCP & MAT. LIST
09 51 00.04	ACT-2; SEE RCP & MAT. LIST
09 51 00.05	GRID-1; SEE RCP & MAT. LIST
09 51 00.06	GRID-2; SEE RCP & MAT. LIST
09 51 00.07	4" AXIOM PERIMETER TRIM
09 51 00.08	REINSTALL EXG ACT
09 65 10.01	B-1; SEE FIN. FL PLAN & MAT. LIST
09 65 10.02	B-2; SEE FIN. FL PLAN & MAT. LIST
09 65 10.03	ETR WALL BASE, PATCH AS REQ.
09 68 13.01	RES. FL.; SEE FIN. FL PLAN FOR TYPE & MAT. LIST
09 68 13.02	RES-1; SEE FIN. FL PLAN & MAT. LIST
09 68 13.03	RES-2; SEE FIN. FL PLAN & MAT. LIST
09 70 00.01	FILM-1; SEE MAT. LIST
09 70 00.02	FILM-2; SEE MAT. LIST
09 84 00.01	WC-1; WALL COVERING; SEE MAT. LIST
09 84 00.02	WC-2; WALL COVERING; SEE MAT. LIST
09 90 00.01	PRIME & PNT; SEE FIN. PLANS & MAT. LIST
09 90 00.02	PRIME & PNT COLUMN; SEE MAT. LIST
09 90 00.03	PRIME & PNT-1; SEE MAT. LIST
09 90 00.04	PRIME & PNT-2; SEE MAT. LIST
09 90 00.05	PRIME & PNT-3; SEE MAT. LIST
09 90 00.06	PRIME & PNT-50 (CEILING); SEE RCP & MAT. LIST
09 90 00.07	PNT SHOP-PRIMED DR FRAME; SEE DR & FRAME SCHED.
09 90 00.08	PRIME AND PAINT EXG MECH. EQUIP; SEE MAT. LIST
09 90 00.10	PNT CLNG PLENUM (PNT-11) OF THE OPNG, BOTH SIDES, TYP.
09 90 00.11	PRIME & PNT EXG WALL TO MATCH EXG
10 11 00.01	WB-1 WHITEBOARD
10 11 00.02	FLAT DISPLAY MONITOR,OFOI; SEE AV* SERIES DWGS
10 11 00.03	REINSTALL DISPLAY MONITOR, OFOI
10 11 00.04	FIXED WALL MOUNT, OFOI; SEE AV* SERIES DWGS
10 11 00.05	MODIFY WB-1 TO SUPPORT FIXED WALL MOUNT INSTALL
10 14 10.01	REINSTALL INTERIOR ROOM SIGNAGE
10 14 10.03	CAST MTL CHARACTERS; SEE DTL B4/A10.50
12 24 00.01	SHADE-1; SEE WIN. SHADE SCHED.
12 24 00.02	SHADE-2A; SEE WIN. SHADE SCHED.
12 24 00.03	SHADE-2B; SEE WIN. SHADE SCHED.
12 24 00.04	SHADE-2C; SEE WIN. SHADE SCHED.
12 24 00.05	SIDE CHANNEL
12 50 00.01	REINSTALL BENCH
12 50 00.02	LECTERN, OFOI
23 00 00.01	MECH. EQUIP; SEE M* SERIES DWGS
23 00 00.02	T-STAT; SEE M* SERIES DWGS
23 00 00.03	EXG RADIATOR PIPING TO REMAIN, PROTECT DURING CONSTRUCTION
23 00 00.04	BASEBOARD COVER
23 00 00.05	REFRIGERANT LINESET PIPING; SEE M* SERIES DWGS
23 00 00.06	EQUIP SUPPORT w/ NEOPRENE ISOLATORS; SEE M* SERIES DWGS.
23 00 00.07	TUBULAR PIPE INSULATION; SEE M* SERIES DWGS.
23 00 00.08	P.T. WD SLEEPERS AND/OR EQUIP SUPPORTS FOR MECH. SYS.
26 00 00.01	ELECTRICAL; SEE E* SERIES DWGS
26 00 00.02	FLOOR BOX; SEE E* SERIES DWGS
26 00 00.03	LIGHT SWITCH; SEE E* SERIES DWGS
26 00 00.04	ELEC. OUTLET/DATA; SEE E* SERIES DWGS
26 00 00.05	VIDEO PANEL WALL; SEE AV* SERIES DWGS
26 00 00.06	ELECTRICAL POWER; SEE E* SERIES DWGS
26 00 00.07	WALL MTD LED COLUMN LIGHTING CONTROL
26 00 00.08	ETR ELEC. OUTLET/DATA
26 00 00.09	ETR LIGHT SWITCH
26 00 00.10	ETR OCCUPANCY SENSOR
26 00 00.11	OCCUPANCY SENSOR; SEE E* SERIES DWGS
26 00 00.12	REINSTALL TELEPHONE
26 50 00.01	LIGHT FIXTURE; SEE RCP & E* SERIES DWGS
26 50 00.02	LED STRIP LIGHT w/ FRY REGLETS; SEE ELEC. DWGS
26 50 00.03	LED LIGHTING
26 50 00.04	ADDLUX 10MM LED LIGHT SHEET
27 40 00.01	AUDIO VISUAL DEVICE; SEE AV* SERIES DWGS
27 40 00.02	AUDIO VISUAL WALL BOX; OFCI; SEE AV* SERIES DWGS
27 40 00.03	AUDIO VISUAL RACK; SEE AV* SERIES DWGS
27 40 00.04	WALL MTD PROJECTOR; SEE AV* SERIES DWG
27 40 00.05	CLNG MTD CAMERA; SEE AV* SERIES DWG
27 40 00.06	WALL MTD CAMERA; SEE AV* SERIES DWG
28 10 00.01	CARD READER; SEE TC* SERIES DWGS
28 10 00.02	REINSTALL EXG CARD READER
28 10 00.03	ETR CARD READER
28 10 00.04	ETR SECURITY SYS. KEYPAD
28 10 00.05	SECURITY SYS. KEYPAD
28 46 11.01	REINSTALL FIRE ALARM HORN AND STROBE
28 46 11.02	FIRE ALARM HORN AND STROBE; SEE FA* SERIES DWGS
28 46 11.03	FIRE ALARM SYSTEM DEVICE; SEE FA* SERIES DWGS
A201	ETR CEILING
A301	PATCH & REPAIR EXG WALL AS REQ.
A302	ETR COLUMN
A401	CONC REPAIR, INFILL, AND TOPPING OF EXISTING CONCRETE SUBFLOORING AND FINISH FLOORING SYSTEM SUBSTRATE
A402	ETR WALL BASE
A403	PATCH & REPAIR EXG FLOORING AS REQ.
A501	ETR HM FRAME & DOOR
A901	TELEPHONE (OFOI)
A902	MONITOR (OFOI)
A903	TABLE, CHAIRS, AND/OR FURNITURE (OFOI)
A904	EQUIPMENT (OFOI)
A905	REINSTALL COPIER/PRINTER
A906	ETR EXG ELEC. OUTLET
A907	ETR ELEC. FIXTURE/EQUIP
A908	ETR FIRE ALARM
A909	REINSTALL BENCHES
A910	REINSTALL EXG CHAIRS, TYP.

PROJECT KEYNOTES

D201	EXG ACT CEILING TO REMAIN
D202	EXG GWB CEILING TO REMAIN
D203	REMOVE EXG ACT TILES & GRID
D204	REMOVE EXG DIFFUSERS & GRILLES, TYP.
D205	REMOVE EXG LIGHT FIXTURES, TYP.
D206	REMOVE EXG PLYWOOD CLG
D208	SALVAGE EXG PROJECTOR SCREEN; RETURN TO OWNER.
D209	SALVAGE EXG CLG MTD PROJECTOR; RETURN TO OWNER.
D210	SALVAGE EXG OCCUPANCY SENSOR
D211	REMOVE EXG SPRINKLER HEAD, TYP.
D212	REMOVE MECHANICAL EQUIP.
D213	SALVAGE EXG WALL MTD ELEC EQUIP.
D214	REMOVE AND REINTSTALL EXG ACT CEILINGS.
D215	ETR LIGHT FIXTURES, TYP.
D216	REMOVE EXG SPEAKERS, TYP.
D217	SALVAGE EXG CLG TILES.
D301	PROTECT EXG PTN
D302	PROTECT EXG COLUMN, TYP.
D303	ETR EXTERIOR WALL
D304	REMOVE PORTION OF EXG PTN & ALL ITS COMPONENTS
D305	REMOVE EXG PTN & ALL ITS COMPONENTS
D306	REMOVE & SALVAGE MARKERBOARDS
D307	REMOVE AND RECONFIGURE PORTION OF EXG PTN FOR NEW MECH. DUCTWORK ABV CLG.
D308	EXG NON-STRUCTURAL FRAMING TO REMAIN
D309	REMOVE ONE LAYER OF EXG GWB; PREP FOR NEW.
D310	REMOVE EXG GWB AND/OR PLYWOOD; PREP FOR NEW.
D401	REMOVE ALL EXG FLOOR BASE WITHIN SPACE
D402	REMOVE EXG CPT; PREP FLOOR FOR REPLACEMENT
D403	REMOVE EXG FLOOR BASE; PREP FLOOR FOR REPLACEMENT
D404	SAW-CUT AND REMOVE CONC EXG SLAB AND TRENCH BENEATH SLAB-ON-GRADE TO INSTALL CONDUITS FOR NEW FLOOR OUTLETS. APPROX. LOCATION.
D405	REMOVE & DISPOSE EXG FLOOR BOXES, TYP.
D407	PROVIDE CONC CORES IN EXG CONC SLAB FOR INSTALL OF NEW MECH. SYS.; SEE M* SERIES.
D501	ETR HM FRAME & DR
D502	ETR STOREFRONT WINDOW
D901	REMOVE EXG WINDOW SHADES & ALL ITS COMPONENTS
D902	REMOVE ABANDONED ITEMS: MEP, T-STATS, ETC...
D903	SALVAGE EXG BENCHES
D906	SALVAGE EXG TV DISPLAY
D907	REMOVE EXG BASEBOARD COVER, ETR RADIATOR PIPING
D908	SALVAGE FURNITURE & EQUIP. TO OWNER
D909	ETR AV RACK
D910	SALVAGE EXG TELEPHONE
D911	REMOVE EXG ELEC DATA/OUTLET; SEE ELEC. DWGS
D912	ETR ELEC AND/OR DATA OUTLET; SEE ELEC. DWGS
D913	SALVAGE EXG ELEC EQUIP & FIRE ALARM DEVICES
D914	SALVAGE EXG WALL MTD CLOCK
D915	SALVAGE EXG INTERIOR ROOM SIGNAGE
D917	SALVAGE COPIER/PRINTER

COMMON ABBREVIATIONS

ID	TERM	ID	TERM
ABV	ABOVE	LKR	LOCKER
A/C	AIR CONDITION	LVL	LAMINATED VENEER LUMBER
ACT	ACOUSTICAL CEILING TILE	LOC.	LOCATION
ADDL	ADDITIONAL	L.O.W.	LIMIT OF WORK
ADJ.	ADJUSTABLE	LVR	LOUVER
A/E	ARCHITECT/ENGINEER		
A.F.F.	ABOVE FINISH FLOOR	MAS.	MASONRY
AHJ	AUTHORITY HAVING JURISDICTION	MAT.	MATERIAL
ALUM.	ALUMINUM	MAX.	MAXIMUM
ALT.	ALTERNATE	MECH.	MECHANICAL
ANOD.	ANODIZED	MED.	MEDIUM
ARCH.	ARCHITECT(-URAL)	MEMB	MEMBRANE
A.P.	ACCESS PANEL	MDF	MEDIUM DENSITY FIBERBOARD
APT	APARTMENT	MIN.	MINIMUM
APPROX.	APPROXIMATE	MISC.	MISCELLANEOUS
ASI	ARCH. SUPPLEMENTAL INSTRUCTION	M.O.	MASONRY OPENING
AUTO.	AUTOMATIC	M.R.	MOISTURE RESISTANT
AUX.	AUXILIARY	MTD	MOUNTED
		MTL	METAL
B.A.S.	BUILDING AUTOMATION SYSTEM		
BD	BOARD	N.A.	NOT APPLICABLE
BDRM	BEDROOM	NAT.	NATURAL
BITUM.	BITUMINOUS	N.C.	NOISE CRITERIA
BLDG	BUILDING	N.I.C.	NOT IN CONTRACT
BLKG	BLOCKING	NKL	NICKEL
BLW	BELOW	NOM.	NOMINAL
BSMT	BASEMENT	N.R.C.	NOISE REDUCTION COEFFICIENT
BOT.	BOTTOM	N.T.S.	NOT TO SCALE
BRK	BRICK		
BRZ	BRONZE	O.C.	ON CENTER
BTWN	BETWEEN	OFCI	OWNER FURNISH/CONTR. INST.
		OFOI	OWNER FURNISH/OWNER INSTALL
CAB.	CABINET	O.H.	OPPOSITE HAND
C.F.M.F.	COLD-FORMED METAL FRAMING	OPNG	OPENING
C.L.	CENTER LINE	OPP	OPPOSITE
CLG	CEILING	ORIG.	ORIGINAL
CLR	CLEAR(-ANCE)	OVHD	OVERHEAD
C.J.	CONTROL JOINT	OZ.	OUNCE
CMU	CONCRETE MASONRY UNIT		
COL.	COLUMN	PERP	PERPENDICULAR
COMP.	COMPRESS(-ED), (-ION). (-IBLE)	PLAM	PLASTIC LAMINATE
CONC.	CONCRETE	PNT	PAINT
CONST.	CONSTRUCTION	PTD	PAINTED
CONT.	CONTINU(-E), (-OUS)	PR	PAIR
COORD.	COORDINATE	P.T.	PRESSURE TREATED
CPT	CARPET	PTN	PARTITION
CPR	COPPER	PLYWD	PLYWOOD
C.T.	CERAMIC TILE		
C.T.E.	CONNECT TO EXISTING	R.B.	RESILIENT BASE
C.U.H.	CABINET UNIT HEATER	R.D.	ROOF DRAIN
		REF.	REFER
DBL	DOUBLE	REFR	REFRIGERATOR
DEMO	DEMO(-LISH), (-LITION)	REQ.	REQUIRE(-D)
D.F.	DRINKING FOUNTAIN	RES.	RESILIENT
DH	DOUBLE HUNG	REV.	REVISION
DIA.	DIAMETER	R.H.	RIGHT HAND
DIAG.	DIAGONAL	RM	ROOM
DIM.	DIMENSION	R.O.	ROUGH OPENING
DN	DOWN		
DR	DOOR	SCHED.	SCHEDULE
DS	DOWNSPOUT	SECT.	SECTION
DTL	DETAIL	SF	SQUARE FEET
DWG	DRAWING	SHT	SHEET
DX	DUPLEX	SHTH	SHEATHING
		SIM.	SIMILAR
EA	EACH	SPEC.	SPEC (-IFIED) (-IFICATION)
EL.	ELEVATION	SRL	SUBMITTAL REVIEW LETTER
ELEC.	ELECTRIC(-AL)	SQ.	SQUARE
ELEV.	ELEVATOR	S.S.	STAINLESS STEEL
EMER.	EMERGENCY	S.S.M.	SOLID SURFACE MATERIAL
EMS	EMERGENCY MANAGEMENT SYSTEM	STC	SOUND TRANSMISSION COEFFICIENT
EJ.	EXPANSION JOINT	STD	STANDARD
EQ	EQUAL	STOR.	STORAGE
EQUIP	EQUIPMENT	STL	STEEL
ETR	EXISTING TO REMAIN	STRUCT.	STRUCTURAL
EXG	EXISTING	SUSP.	SUSPEND(-ED)
EXT.	EXTERIOR	SYS.	SYSTEM
F.A.	FIRE ALARM	T&G	TONGUE AND GROOVE
F.A.R.	FLOOR AREA RATIO	TBD	TO BE DETERMINED
F.C.U.	FAN COIL UNIT	TEL.	TELEPHONE
F.D.	FLOOR DRAIN	TEMP	TEMPORARY
FDN	FOUNDATION	THK	THICK(-NESS)
F.E.	FIRE EXTINGUISHER	THR	THRESHOLD
FEC	FIRE EXTINGUISHER CABINET	THRU	THROUGH
FF&E	FURNITURE, FIXTURES & EQUIPMENT	T.O.	TOP OF _____
FGL	FIBERGLASS	TSTAT	THERMOSTAT
FIN.	FINISH	TYP.	TYPICAL
FIXT.	FIXTURE	TZ	TERRAZZO
FL	FLOOR		
F.O.	FACE OF _____	U.H.	UNIT HEATER
F.P.	FIRE PROTECTION	U.N.O.	UNLESS NOTED OTHERWISE
FT	FEET		
FTG	FOOTING	VERT.	VERTICAL
FURN.	FURNITURE	V.I.F.	VERIFY IN FIELD
		V.R.	VAPOR RETARDER
GA	GAGE		
GALV	GALVANIZED	w/	WITH
GB	GRAB BAR	W.C.	WATER CLOSET
GL	GLASS	WD	WOOD
GLAM	GLUE LAMINATED BEAM	WIN.	WINDOW
GLZ	GLAZING	Z.C.C.	ZINC COATED COPPER
GWB	GYPSUM BOARD		
HC	HANDICAP		
HDF	HIGH DENSITY FIBERBOARD		
HM	HOLLOW METAL		
HDWR	HARDWARE		
HOR.	HORIZONTAL		
HR	HOUR		
HT	HEIGHT		
INCL.	INCLUDE(-D),(-ING)		
INFO.	INFORMATION		
INSUL.	INSULATION		
INT.	INTERIOR		
J.C.	JANITOR'S CLOSET		
J-BOX	JUNCTION BOX		
JT	JOINT		
KIT.	KITCHEN		
LAB.	LABORATORY		
LAV.	LAVATORY		
LB	POUND(-S)		
L.E.D.	LIGHT EMITTING DIODE		
L.H.	LEFT HAND		
LIB.	LIBRARY		

COMMON DRAFTING PATTERNS

- ALUMNIUM
- BRICK
- CONCRETE
- CONCRETE BLOCK
- CERAMIC TILE, HORIZONTAL SURFACE
- CERAMIC TILE, VERTICAL SURFACE
- EARTH
- ENGINEERED WOOD (MDF, HDF, ETC.)
- EXISTING, UNEXCAVATED
- GLASS, SPECIALTY
- GLASS, HORIZONTAL SURFACE
- GLASS, VERTICAL SURFACE
- GYPSUM/PLASTER
- METAL (STEEL, ETC.)
- PLASTIC
- PLYWOOD
- POROUS FILL (GRAVEL, CRUSHED STONE, ETC.)
- RIGID INSULATION
- RUBBLE
- SHINGLE
- WOOD (EDGE GRAIN)
- WOOD (END GRAIN)
- WOOD (FACE GRAIN)

COMMON SYMBOLS

- EXTERIOR ELEVATION — A1 / A10.00, SIM
- BUILDING SECTION — A1 / A10.00, SIM
- WALL SECTION — A1 / A10.00, SIM
- CALLOUT — A1 / A10.00, SIM
- DETAIL SECTION — A1 / A10.00, SIM
- INTERIOR ELEVATION — A1 / A10.00 / A1 / A1
- LEVEL / ELEVATION — NAME, EL. ELEVATION
- SPOT ELEVATION
- VIEW REFERENCE — A1 / A10.00
- DRAWING NOTE — NOTE
- BREAK LINE
- ROOM — ROOM NAME, 100
- DOOR — 100
- WINDOW — A
- PARTITION/WALL — 50A
- COLUMN HEAD — 0
- WALL HEIGHT — +100'-0"
- REVISION — 0
- CENTER LINE

DRAWING INDEX

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A6.01	ENLARGED FLOOR PLAN AND REFLECTED CEILING PLANS
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M2.00	MECHANICAL - SCHEDULE
M3.00	MECHANICAL - DETAILS
M3.01	MECHANICAL - RISER DIAGRAMS
M4.00	MECHANICAL - CONTROLS
ELECTRICAL	
E0.01	ELECTRICAL - LEGEND, NOTES, & FIXTURE SCHEDULE
E0.02	ELECTRICAL - LEGEND, NOTES, & FIXTURE SCHEDULE
E0.03	ELECTRICAL - DETAILS, SCHEDULES, & RISER DIAGRAMS
ED1.00	ELECTRICAL - ENLARGED FIRST FLOOR DEMOLITION PLANS
ELECTRICAL	
E1.00	ELECTRICAL - ENLARGED FIRST FLOOR PLANS
E1.01	ELECTRICAL - ENLARGED FIRST FLOOR PLAN
E1.02	ELECTRICAL - ROOF OVERALL PLAN
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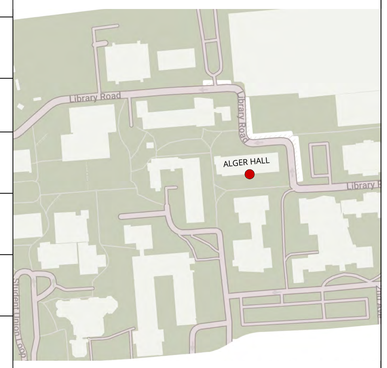
TC1.01	TELECOM FIRST FLOOR OVERALL PLAN
TC1.11	TELECOM FIRST FLOOR PART PLAN
TC2.00	TELECOM DETAILS

PROJECT NARRATIVE

THE PROJECT ENTAILS THE RENOVATION OF TWO EXISTING COMPUTER LABS. ROOM 101 IS 917 SQUARE FEET AND ROOM 102 IS 970 SQUARE FEET. THE LABS WILL BE RENOVATED TO SUPPORT THE TECHNOLOGY NEEDS OF THE CYBER COMMAND CENTER. THIS WILL INCLUDE INSTALLATION AND/OR MODIFICATION OF THE REQUIRED INFRASTRUCTURE (ELECTRICAL AND LOW VOLTAGE CABLING), BLOCKING IN WALLS, NEW DATA CLOSET, ROOM FINISHES (CARPET AND PAINT), AS WELL AS CEILINGS, LIGHTING AND WINDOW TREATMENTS. THE WORK ALSO INCLUDES THE INSTALLATION OF A NEW MECHANICAL SYSTEM, NEW MECHCANICAL UNITS ON THE ROOF, SELECTIVE WORK ON THE SECOND FLOOR TO ACCOMMODATE NEW REFRIGERANT PIPING, AND A NEW DOOR AT THE IT CLOSET (ROOM 110D). G.C. TO COORDINATE WITH FURNITURE AND TECHNOLOGY VENDORS FOR THE INSTALLATION.

THE CENTER WILL LEVERAGE TWO REMODELED CLASSROOMS (ROOM 101 AND 102), EQUIPPING THEM WITH ADVANCED VISUALIZATION AND COMMUNICATION TOOLS, A SECURE NETWORKING INFRASTRUCTURE, AND 48 HIGHPERFORMANCE COMPUTERS TO SUPPORT CYBER RANGE SOFTWARE.

LOCATION MAP



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30 AUGUST 2024

Revisions

Drawing Title
PROJECT INFORMATION

G0.01

SUMMARY SHEET-BUILDING SCORE

TABLE 3408.7

Existing Use Group	B/Business	Proposed Use Group	A-3/Assembly
Year Building was Constructed	1957/1958	Number of Stories	2 @ 24' total
Type of Construction	2C/Unprotected	Area per Floor	15,415sf Max. (1st Floor)
Percentage of Open Perimeter	50%	Percentage of Height Reduction	-
Completely Suppressed	Yes	Corridor Wall Rating	0 Hr.
Compartmentation	No	Required Door Closers	Yes
Fireresistance Rating of Vertical Opening Enclosures	1 Hr.		
Type of HVAC System	Ducted Supply/Partial Ducted Return	Serving Number of Floors	2
Automatic Fire Detection	Yes	Type and Location	Smoke Detect. @ Corridor & Elect/Mech Rooms
Fire Alarm System	Yes	Type	Supervised [23-28.5.4]/West Lobby
Smoke Control	Yes	Type	Natural Ventilation
Adequate Exit Routes	Yes	Dead Ends	No
Maximum Exit Access Travel Distance	105'	Elevator Controls	Yes
Means of Egress Emergency Lighting	Yes	Mixed Use Groups	No

DESCRIPTION AND GENERAL REQUIREMENTS

Rhode Island State Building Code, SBC-1

I. Use Group
A-3 Assembly

II. Construction Type
Type 2C, Noncombustible - Unprotected

III. Height / Area Limitation
(Per Table 503)

		Allowable Limits	Adjusted* Allowable Limits
A-3	Assembly	3 Story, 30' Max Height 8,400 sf per floor	4 Story, 50' Max Height 16,800 sf per floor

*NOTE: Project is equipped throughout with an automatic sprinkler system installed in accordance with Section 906.2.1 (NFPA 13 systems). As such the following adjustments have been made to allowable height & area limits.

Allowable HEIGHT values have been adjusted accordingly to allow for a height increase of one story and 20 feet. (Section 504.2, Height Modifications)

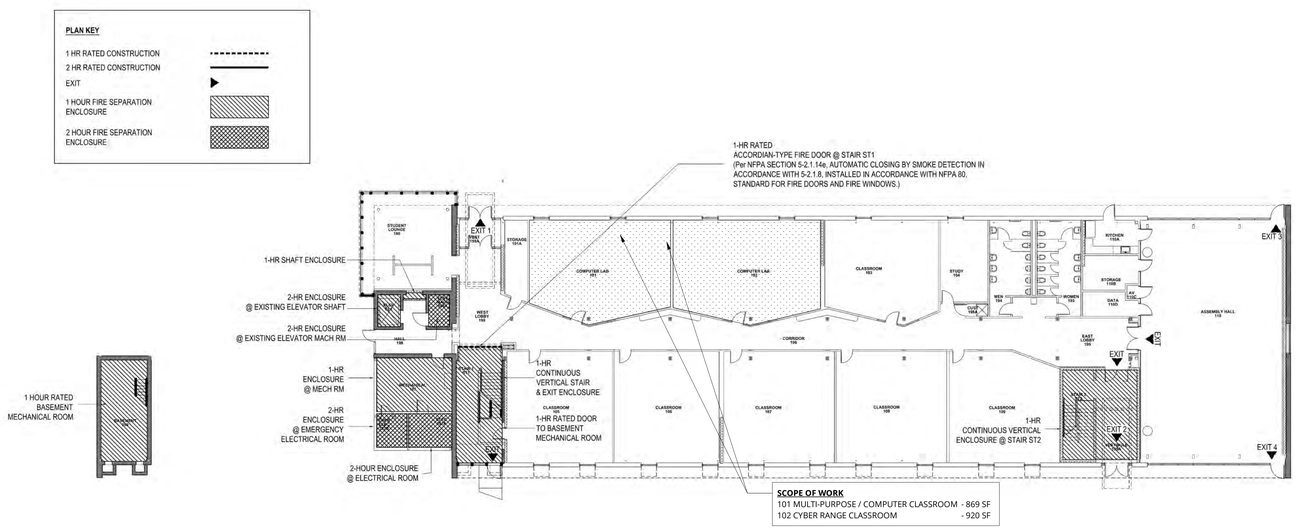
Allowable AREA values have been adjusted accordingly to allow for an area increase of 100%. (Section 506.3, Area Modifications)

IV. Gross Building Area

Basement	320 sf
First Floor	15,415 sf
Second Floor	12,875 sf
Total	28,610 sf
Building Height	24'-0"

(Project Complies with all Height and Area Requirements)

C4 / G0.02 EXISTING LIFE SAFETY PLANS - SECOND FLOOR
SCALE: 1/16" = 1'-0"



A6 / G0.02 EXISTING LIFE SAFETY PLANS - FIRST FLOOR & BASEMENT
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. THE CODE ANALYSIS REFERS TO THE EXISTING CODE ANALYSIS. THE EXISTING CODE DESCRIPTION AND REQUIREMENTS REMAIN UNCHANGED WITH THE NEW PROJECT. THERE IS NO ALTERATION IN THE OCCUPANCY COUNT AND EGRESS.

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

Drawing Title
CODE SUMMARY AND LIFE SAFETY PLANS

G0.02

MATERIALS LIST

MATERIAL DESIGNATION	TYPE	SPEC.	MANUFACTURER	STYLE	COLOR	SIZE	FINISH	LOCATION	NOTES
ACT-1	ACOUSTICAL CEILING TILE	09 51 00	ARMSTRONG	BACKSTAGE NOIR, LAY-IN	BLACK	24" x 24"	MANUF.	CYBER RANGE CLASSROOM (RM 102), GRID-1 LOCATIONS	
ACT-2	ACOUSTICAL CEILING TILE	09 51 00	ARMSTRONG	ULTIMA TEGULAR	WHITE	24" x 24"	MANUF.	MULTI-PURPOSE / COMPUTER CLASSROOM (RM 101), GRID-2 LOCATIONS	
B-1	RUBBER - WALL BASE - PROFILE	09 65 10	ROPPE	SIMPLICITY COLD 05	CHARCOAL	4"	MANUF.	TYPICAL U.N.O.	
B-2	RUBBER - WALL BASE - MATCH EXISTING	09 65 10	ROPPE	MATCH EXISTING	MATCH EXISTING	4"	MANUF.	EAST LOBBY CORRIDOR (RM 109) AND IT DATA CLOSET (RM 110)	
CONC-1	SLAB	03 00 00	N.A.	N.A.	N.A.	N.A.	N.A.	CONC. SLAB ON GRADE	
DR-1	DOOR	08 14 00	TBD	WOOD VENEER DOOR	WD-1	N.A.	N.A.	ELECTRICAL CLOSET (RM 102A) AND AV CLOSET (RM 102B); SEE DOOR & FRAME SCHED; A9.00 FOR EL. TYPEES	
FILM-1	DECORATIVE WINDOW FILM	09 70 00	DESIGNED FILM	TECHNOLOGY FILM 10	MANUF.	60"	SEMI-OPAQUE	CYBER RANGE (RM 102)/CORRIDOR (RM196) STOREFRONT	
FILM-2	WINDOW FILM	09 70 00	3M	PRIVACY FILM	MANUF.	VARIES	FROSTED	CYBER RANGE EXTERIOR WINDOWS	INTEGRATED CYBER RANGE LOGO; LOGO TO BE DETERMINED
GRID-1	CEILING GRID	09 51 00	ARMSTRONG TILE CEILING GRID	PRELUDE XL	BLACK	15/16"	MANUF.	CYBER RANGE CLASSROOM (RM 102)	
GRID-2	CEILING GRID	09 51 00	ARMSTRONG TILE CEILING GRID	PRELUDE XL	WHITE	15/16"	MANUF.	MULTI-PURPOSE / COMPUTER CLASSROOM (RM 101)	
HM-1	HOLLOW METAL FRAME - FOR SINGLE DOOR	08 11 10	SEE PROJECT MANUAL	MTL-5	MANUF.	2" WIDTH	MANUF. PRIMED	SEE DOOR & FRAME SCHED. FOR LOCATION; SEE A9.10 FOR EL. TYPES	
MTL-1	DECORATIVE METAL SHEETS	05 70 00	MOZ DESIGNS	CC 150 SERIES SQUARE COLUMN COVERS: ENGRAVINGS: CYBER	NICKEL	78" x 21"	MANUF.	EAST & WEST WRAPPED COLUMN AT CYBER RANGE (RM 102), SEE DETAILS ON A10.50	
MTL-2	DECORATIVE METAL SHEETS	05 70 00	MOZ DESIGNS	CC 150 SERIES SQUARE COLUMN COVERS: LASER CUT: CYBER, CUSTOM	NICKEL	78" x 21"	MANUF.	NORTH & SOUTH WRAPPED COLUMNS AT CYBER RANGE (RM 102), SEE DETAILS ON A10.50	LED BACK LIT
MTL-3	DECORATIVE METAL SHEETS	05 70 00	MOZ DESIGNS	CC 150 SERIES SQUARE COLUMN COVERS: ENGRAVINGS: CYBER		TRIM	TBD	TRIM AT COLUMN CORNERS; SEE DETAILS ON A10.50	
MTL-4	DECORATIVE METAL SHEETS	05 70 00	MOZ DESIGNS	CC 150 SERIES SQUARE COLUMN COVERS	BLACK SAND POWDER	N.A.	MANUF.	BASE & HEAD AT COLUMNS; SEE DETAILS ON A10.50	
MTL-5	STEEL	VARIES	SEE PROJECT MANUAL				SHOP PRIMED; FIELD PAINTED	HM FRAMES	
PNT-1	INTERIOR PAINT - FIELD	09 90 00	SHERWIN WILLIAMS	LATEX PAINT, SCUFFMASTER	PURE WHITE 7005	N.A.	EGGSHELL	ALL WALLS U.N.O. AND COLUMNS	
PNT-2	INTERIOR PAINT - ACCENT	09 90 00	SHERWIN WILLIAMS	LATEX PAINT, SCUFFMASTER	BLACK MAGIC, 6991	N.A.	EGGSHELL	CYBER RANGE CLASSROOM (RM 102) NORTH WALL; SEE FINISH PLAN A6.50	
PNT-3	INTERIOR PAINT - ACCENT	09 90 00	SHERWIN WILLIAMS	LATEX PAINT, SCUFFMASTER	INDIGO BATIK 7602	N.A.	EGGSHELL	CYBER RANGE CLASSROOM (RM 102); SEE FINISH PLAN A6.50	
PNT-4	INTERIOR PAINT - METAL	09 90 00	SHERWIN WILLIAMS	TBD	BLACK	N.A.	MATTE	CYBER RANGE CLASSROOM (RM 102) MECHANICAL EQUIPMENT; SEE RCPs A6.01	
PNT-5	INTERIOR PAINT - MATCH EXISTING	09 90 00	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	N.A.	MATCH EXISTING	EAST LOBBY CORRIDOR (RM 109) AND IT DATA CLOSET (RM 110)	
PNT-6	INTERIOR PAINT - DOOR TRIM	09 90 00	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	N.A.	MATCH EXISTING	ALL HM FRAMES, TYPICAL	
PNT-50	INTERIOR PAINT - CEILING	09 90 00	SHERWIN WILLIAMS	TBD	BLACK	N.A.	FLAT	CYBER RANGE CLASSROOM (RM 102)	
PNT-51	INTERIOR PAINT - CEILING SOFFIT	09 90 00	SHERWIN WILLIAMS	TBD	WHITE	N.A.	FLAT	ALL GWB CEILINGS U.N.O.	
PNT-52	INTERIOR PAINT - CEILING PLENUM	09 90 00	SHERWIN WILLIAMS	LATEX PAINT	BLACK	N.A.	MATTE	PAINT PLENUM AT OPENING CEILING GAP	ALL VISIBLE SURFACES TO BE PTD COORD. DISCREET ROUTING OF AV/IT; DO NOT PNT
RES-1	RESILIENT FLOORING - LUXURY VINYL TILE	09 68 13	FORBO	FLOTEX - CONVERGE	FIELD: ZENITH	9.8" x 39.4"	MANUF.	SEE FIN. PLAN A6.50	THE COLOR SCHEME WILL PRIMARILY CONISIST OF RED AND GRAY, WITH A LIMITED AMOUNT OF BLUE
RES-2	RESILIENT FLOORING - LUXURY VINYL TILE	09 68 13	FORBO	FLOTEX - SEAGRASS	ACCENT: CEMENT	9.8" x 39.4"	MANUF.	AT ANGLED WALL BELOW CEILING; SEE FIN. PLAN A6.50	
SHADE-1	BLACK OUT SHADES - MANUAL	12 24 00	MECHO SHADE SYSTEM	SHADE FABRIC: ECOVEIL, 1750 SEARIES, 1% OPEN	SILVER BIRCH	VARIES	MANUF.	MULTI-PURPOSE / COMPUTER CLASSROOM (RM 101)	
SHADE-2	BLACK OUT SHADES - MOTORIZED	12 24 00	MECHO SHADE SYSTEM	SHADE FABRIC: CHELSEA BLACKOUT	ONYX	WIDTH VARIES, HEIGHT: FULL LENGTH OF WALL	MANUF.	CYBER RANGE CLASSROOM (RM 102)	AT INTERIOR WINDOWS WITH SIDE CHANNELS. CONTROLS VIA WALL PANEL AND TIED INTO AV CONTROLS (OVERRIDE)
ST-1	STAIN	09 90 00	TBD	TBD	TRANSPARENT	N.A.	MANUF.	TYPICAL U.N.O.	
TRIM-1	TRIM - AXIOM PERIMETER	09 51 00	ARMSTRONG	AXIOM CLASSIC - STRAIGHT PERIMETER TRIM	BLACK	4" HIGH, LENGTH VARIES	MANUF.	CYBER RANGE CLASSROOM (RM 102)	
TRIM-2	TRIM - AXIOM PERIMETER	09 51 00	ARMSTRONG	AXIOM CLASSIC - STRAIGHT PERIMETER TRIM	WHITE	4" HIGH, LENGTH VARIES	MANUF.	MULTI-PURPOSE / COMPUTER CLASSROOM (RM 101)	
WC-1	WALL COVERING - FELT	09 84 00	ACUFELT	FRACTURE TWO TONE - BARCODE	METAL & SLATE	VARIES	MANUF.	CORRIDOR (RM 196); SEE FIN. PLAN A6.50	TYP. FOREGROUND COLOR: TBD, BACKGROUND COLOR: METAL
WC-2	WALL COVERING - FELT	09 84 00	ACUFELT	FRACTURE TWO TONE - BARCODE	PIANO BLACK	VARIES	MANUF.	CORRIDOR (RM 196); SEE FIN. PLAN A6.50	
WB-1	WHITEBOARD "PORCELAIN"	10 11 00	CLARIDGE	LCS ELITE FRAMELESS	NO. 100 WHITE	SEE EL.	MANUF.	MULTI-PURPOSE / COMPUTER CLASSROOM (RM 101), CYBER RANGE CLASSROOM (RM 102)	SEE EL.; SEAMLESS INSTALL; MAGNETIC ACCESSORY TRAYS
WD-1	WOOD - VENEER	08 14 00	N.A.	MAPLE	N.A.	N.A.	STAIN (ST-1)	WOOD DOORS	

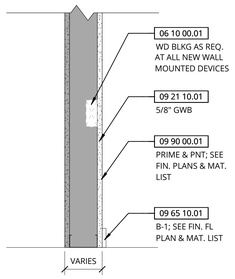
PARTITION SCHEDULE

MARK	WIDTH	FRAMING SIZE	SIDE A		INSUL.	SIDE B		FIRE RATING	STC RATING
			TYPE	THK		TYPE	THK		
E2	4 7/8"	EXIST.	GWB	5/8"	EXIST.	EXIST.	EXIST.	N.A.	N.A.
S3	4 1/8"	3 1/2"	GWB	5/8"	ACOUST. BATT	N.A.	N.A.	N.A.	N.A.
S3A	4 7/8"	3 5/8"	GWB	5/8"	ACOUST. BATT	GWB	5/8"	N.A.	N.A.
S3B	6 1/8"	3 5/8"	GWB	5/8"	ACOUST. BATT	GWB	5/8"	N.A.	N.A.
S3C	5"	3 5/8"	GWB / PLYWOOD	5/8"	ACOUST. BATT	N.A.	N.A.	N.A.	N.A.

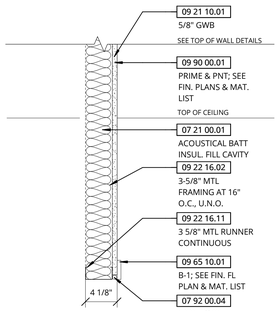
WINDOW SHADE SCHEDULE

QUANTITY	MARK	ROOM NAME	LOCATION	SIZE (INCHES)		OPENNESS %	COLOR	NOTES
				WIDTH	HEIGHT			
2	SHADE-1	101 - MULTIPURPOSE/ COMPUTER ROOM	EXISTING WINDOW	46"	132"	3%	TBD	MANUAL
1	SHADE-2A	102 - CYBER RANGE CLASSROOM	EXISTING STOREFRONT	78"	96"	0%	TBD	MOTORIZED
1	SHADE-2B	102 - CYBER RANGE CLASSROOM	EXISTING STOREFRONT	23"	96"	0%	TBD	MOTORIZED
1	SHADE-2C	102 - CYBER RANGE CLASSROOM	EXISTING STOREFRONT	26"	96"	0%	TBD	MOTORIZED

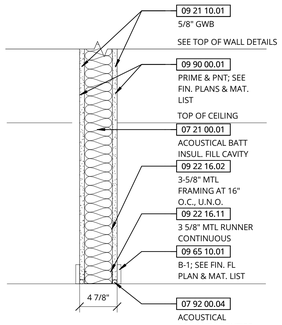
GENERAL NOTE: G.C. TO VERIFY ALL DIMENSIONS IN FIELD.



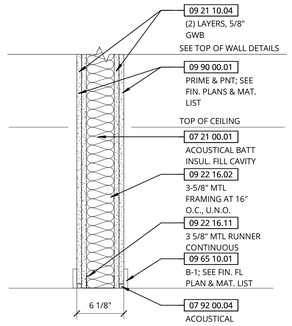
A6 G0.03 **EXISTING PARTITION - TYPE E**
SCALE: 1 1/2" = 1'-0"



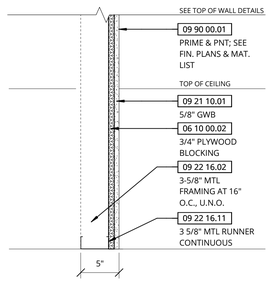
A5 G0.03 **PTN WALL TYPE S3**
SCALE: 1 1/2" = 1'-0"



A2 G0.03 **PTN WALL TYPE S3A**
SCALE: 1 1/2" = 1'-0"



A3 G0.03 **PTN WALL TYPE S3B**
SCALE: 1 1/2" = 1'-0"



A4 G0.03 **PTN WALL TYPE S3C**
SCALE: 1 1/2" = 1'-0"

KEYNOTES

VALUE	TEXT
06 10 00.01	WD BLKG AS REQ.
06 10 00.02	3/4" PLYWOOD BLOCKING
07 21 00.01	ACOUSTICAL BATT INSUL. FILL CAVITY
07 92 00.04	ACOUSTICAL SEALANT AT ENTIRE PERIMETER OF WALL,TYP.
09 21 10.01	5/8" GWB
09 21 10.04	(2) LAYERS, 5/8" GWB
09 22 16.02	3-5/8" MTL FRAMING AT 16" O.C., U.N.O.
09 22 16.11	3 5/8" MTL RUNNER CONTINUOUS
09 65 10.01	B-1; SEE FIN. FL PLAN & MAT. LIST
09 90 00.01	PRIME & PNT; SEE FIN. PLANS & MAT. LIST

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

Drawing Title
MATERIALS SUMMARY

G0.03

PLAN LEGEND - DEMO

DEMO WORK GENERAL NOTES & SCOPE

1. ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.01 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.
2. SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.
3. DEMO EXTENT OF ARCHITECTURAL SCOPE TO ENABLE INSTALLATION OF NEW WORK INDICATED.
4. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, TECHNOLOGY COMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	EXISTING PARTITION TO BE REMOVED, U.N.O.
	AREA NOT IN CONTRACT
	BOUNDARY OF WORK AREA
	ELEMENT TO BE DEMOLISHED/REMOVED
	LIMITS OF CONC SLAB SAWCUT
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME TO BE REMOVED, U.N.O.
XXX	ROOM TAG
DXXX	KEYNOTE

N

A6 / AD1.01 OVERALL FIRST FLOOR PLAN - DEMO
SCALE: 1/8" = 1'-0"

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Project Location
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Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 04/08/24

Revisions

Drawing Title
OVERALL FIRST FLOOR PLAN - DEMOLITION

AD1.01

PLAN LEGEND - DEMO

DEMO WORK GENERAL NOTES & SCOPE

1. ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.01 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.
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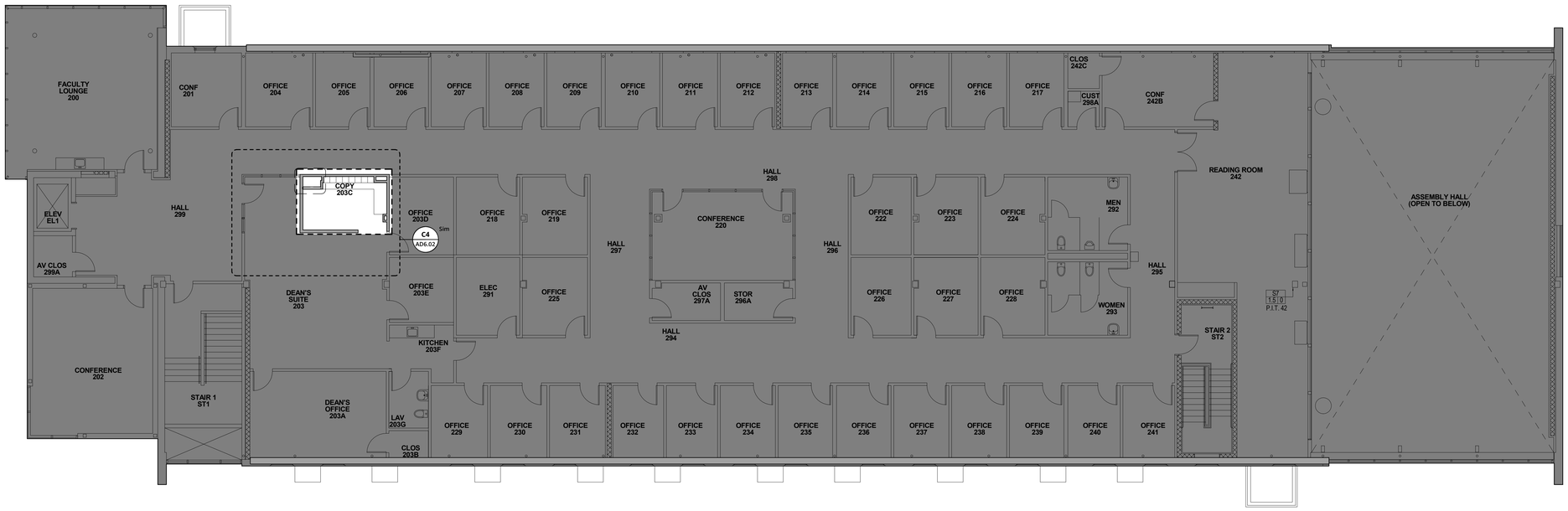
	LIMITS OF CONC SLAB SAWCUT
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME TO BE REMOVED, U.N.O.
XXX	ROOM TAG
DXXX	KEYNOTE



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A6
AD1.02
OVERALL SECOND FLOOR PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
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PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 05/21/24

Revisions

Drawing Title
OVERALL SECOND FLOOR PLAN - DEMOLITION

AD1.02

RCP LEGEND - DEMO

DEMO WORK GENERAL NOTES & GENERAL SCOPE

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3. DEMO EXTENT OF ARCHITECTURAL SCOPE TO ENABLE INSTALLATION OF NEW WORK INDICATED.
4. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, TECHNOLOGY COMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	EXISTING PARTITION TO BE REMOVED, U.N.O.
	AREA N.I.C.
	BOUNDARY OF WORK AREA
	ELEMENT TO BE DEMOLISHED/REMOVED
	LIMITS OF ACOUSTIC CEILING TILES TO BE REMOVED, U.N.O.
	SUPPLY DIFFUSER TO BE REMOVED
*S	EXG SPRINKLER HEAD TO BE REMOVED
	EXG LIGHT FIXTURE TO BE REMOVED
DXXX	KEYNOTE

N

A6 / AD2.01 OVERALL FIRST FLOOR REFLECTED CEILING PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 06/13/24

Revisions

Drawing Title
OVERALL FIRST FLOOR REFLECTED CEILING PLAN

AD2.01

RCP LEGEND - DEMO

DEMO WORK GENERAL NOTES & GENERAL SCOPE

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DRAWING LEGEND:
SEE DWG G0.01 FOR ADDL SYMBOLS

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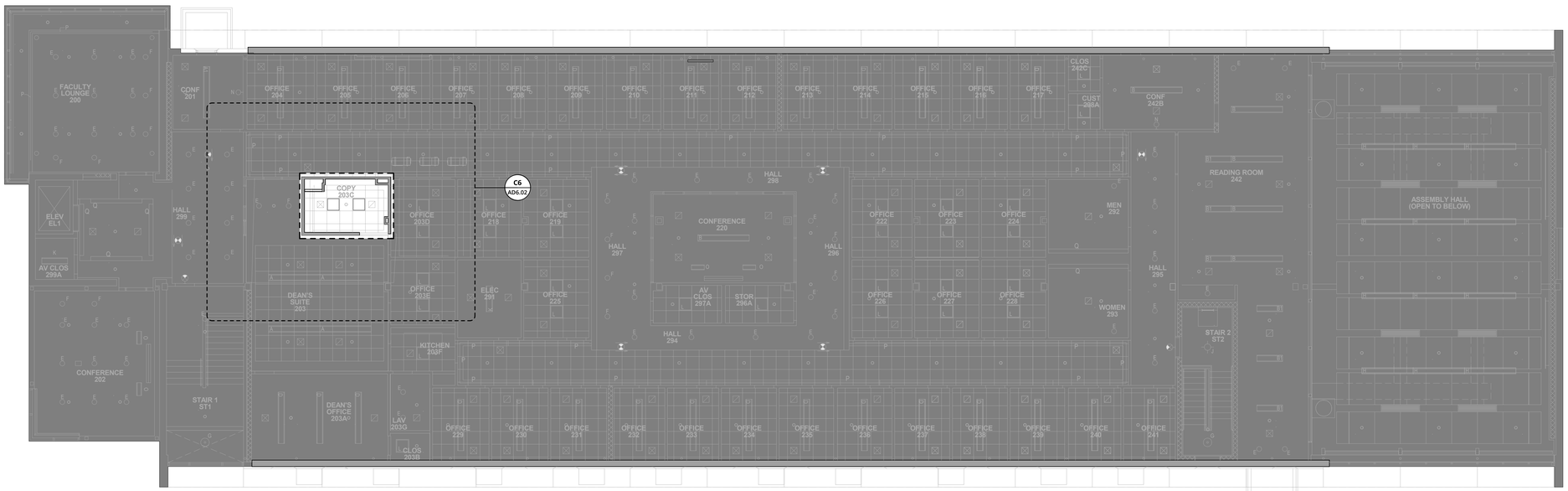
	EXISTING PARTITION TO BE REMOVED, U.N.O.
	AREA N.I.C.
	BOUNDARY OF WORK AREA
	ELEMENT TO BE DEMOLISHED/REMOVED
	LIMITS OF ACOUSTIC CEILING TILES TO BE REMOVED, U.N.O.
	SUPPLY DIFFUSER TO BE REMOVED
*S	EXG SPRINKLER HEAD TO BE REMOVED
	EXG LIGHT FIXTURE TO BE REMOVED
DXXX	KEYNOTE



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A6 / AD2.02 OVERALL SECOND FLOOR REFLECTED CEILING PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"

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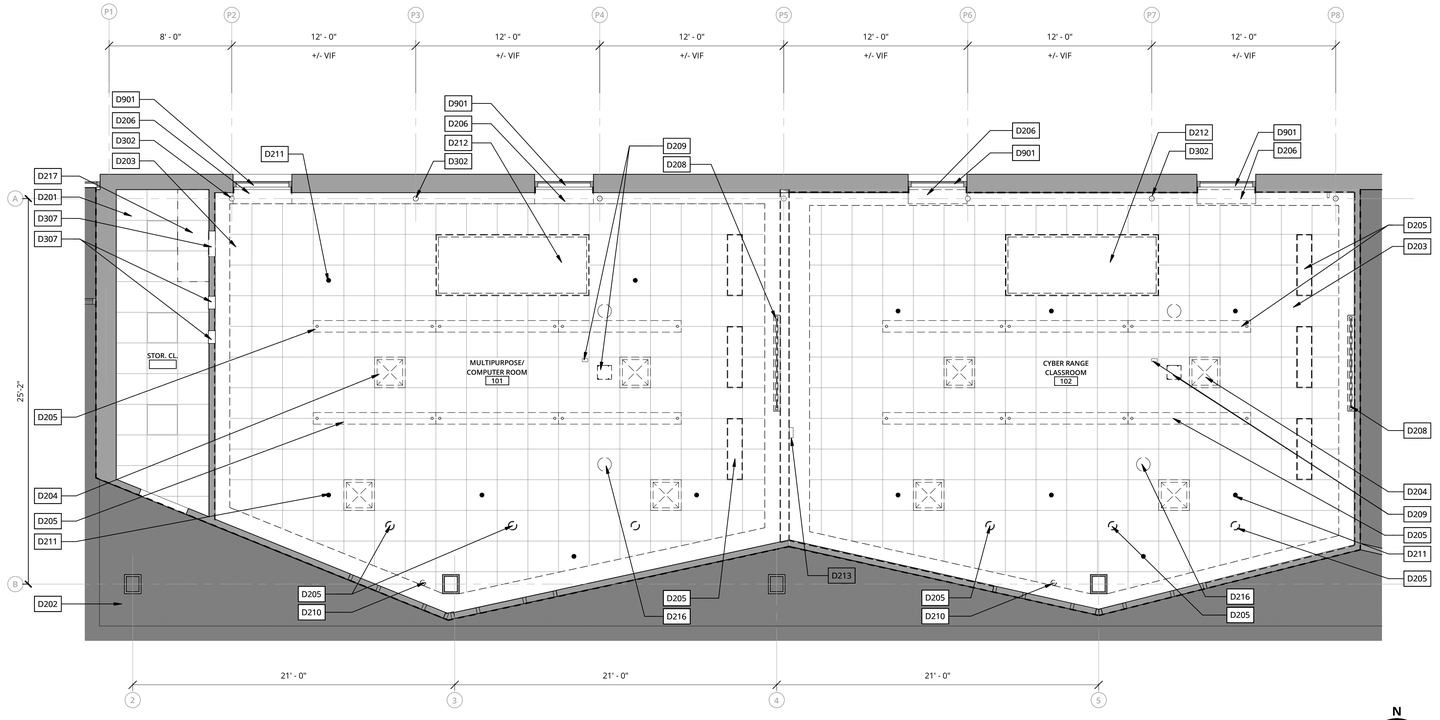
Revisions

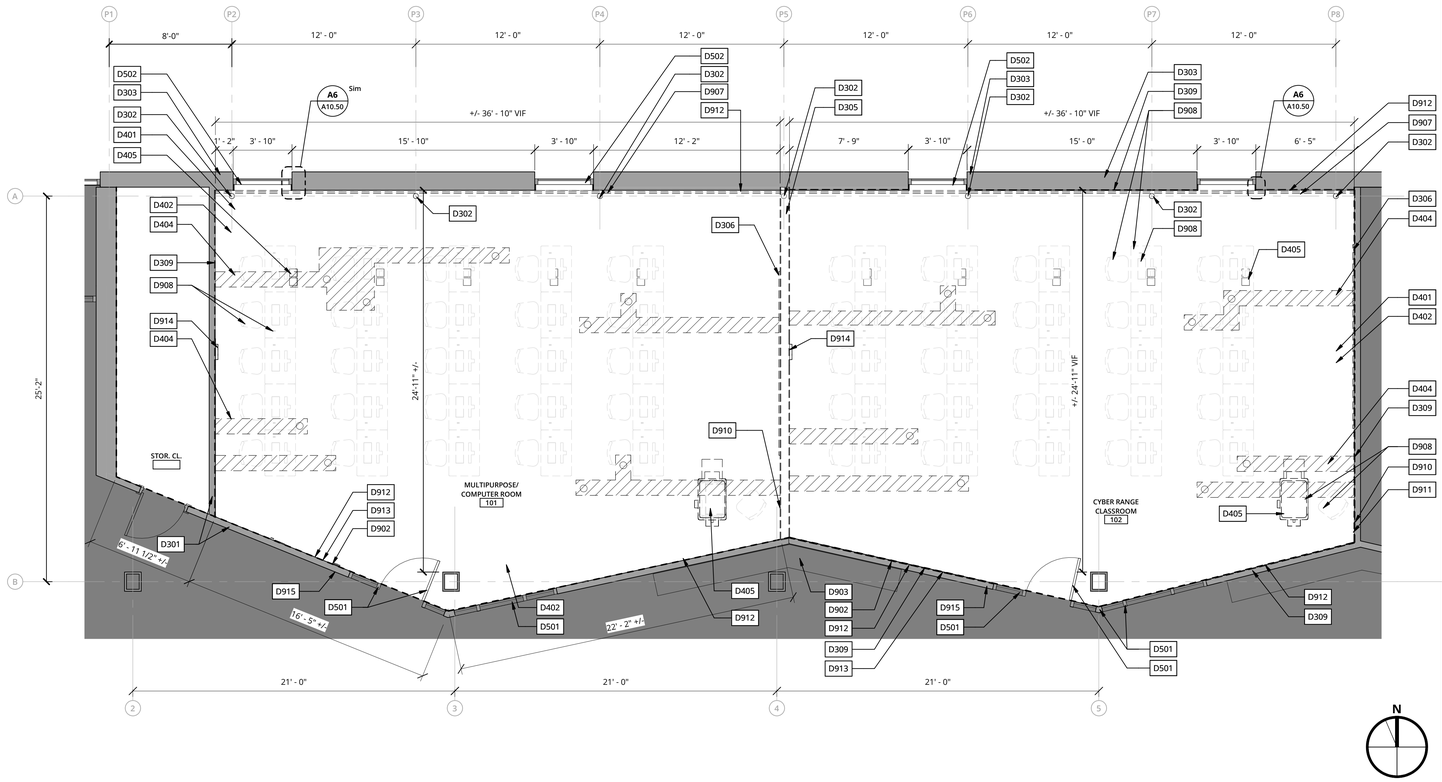
Drawing Title
OVERALL SECOND FLOOR REFLECTED CEILING PLAN - DEMOLITION

AD2.02



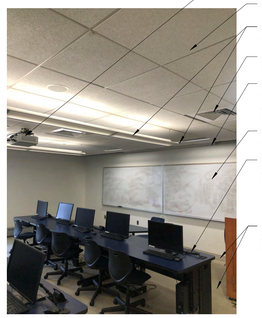
C6 AD6.01 ENLARGED FIRST FLOOR REFLECTED CEILING PLAN - ROOMS 101 AND 102 - DEMO

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



A6 AD6.01 ENLARGED FIRST FLOOR PLAN - ROOMS 101 AND 102 - DEMO

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



REMOVE AND SALVAGE EXISTING PROJECTOR SCREEN AND PROJECTOR. RETURN TO OWNER.

REMOVE EXISTING ACT CEILING

REMOVE EXISTING LIGHT FIXTURES, TYPICAL

REMOVE EXISTING SUPPLY DIFFUSERS

REMOVE AND SALVAGE EXISTING PROJECTOR SCREEN AND PROJECTOR. RETURN TO OWNER.

REMOVE AND DISPOSE EXISTING WHITEBOARD

SALVAGE EXISTING FURNITURE AND EQUIPMENT; RETURN TO OWNER

REMOVE EXISTING CARPET AND WALL BASE, PREP FOR NEW FLOORING

REMOVE AND/OR RELOCATE EXISTING FIRE ALARM DEVICE

REMOVE AND/OR RELOCATE EXISTING OCCUPANCY SENSOR

REMOVE EXISTING CEILING

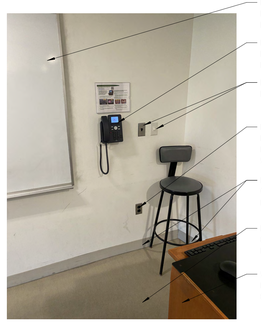
EXG HM FRAME AND DOOR TO REMAIN

REMOVE AND/OR RELOCATE SALVAGE EXISTING THERMOSTAT

R&D LIGHT SWTICH

REMOVE AND SALVAGE EXISTING ELECTRICAL FIXTURE

ETR DOOR



REMOVE AND SALVAGE EXISTING WHITEBOARD. RETURN TO OWNER

REMOVE AND SALVAGE EXISTING TELEPHONE; RETURN TO OWNER

REMOVE AND DISPOSE EXISTING LIGHT SWTICH

REMOVE AND/ OR RELOCATE EXISTING ELECTRICAL OUTLET; SEE PLANS

REMOVE EXISTING WALL BASE, PREP FOR NEW

REMOVE EXISTING CARPET, PREP FOR NEW FLOORING

SALVAGE EXISTING PODIUM; RETURN TO OWNER

ETR STOREFRONT, PROTECT DURING CONSTRUCTION

REMOVE PORTION OF WALL FOR NEW WORK

PROTECT EXISTING COLUMNS

REMOVE AND SALVAGE EXISTING BASEBOARD COVER FOR NEW WORK

REMOVE EXISTING CARPET, PREP FOR NEW FLOORING

GENERAL NOTE: EXISTING IMAGES CAPTURE EXISTING CONDITIONS OF ROOMS 101 AND 102. ROOMS 101 AND 102 ARE SIMILAR.

A2 AD6.01 EXISTING CLASSROOM PHOTOS

SCALE: 1/16" = 1'-0"

PLAN LEGEND - DEMO

DEMO WORK GENERAL NOTES & SCOPE

1. ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.01 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.
2. SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.
3. DEMO EXTENT OF ARCHITECTURAL SCOPE TO ENABLE INSTALLATION OF NEW WORK INDICATED.
4. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, TECHNOLOGY COMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	EXISTING PARTITION TO BE REMOVED, U.N.O.
	AREA NOT IN CONTRACT
	BOUNDARY OF WORK AREA
	ELEMENT TO BE DEMOLISHED/REMOVED
	LIMITS OF CONC SLAB SAWCUT
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME TO BE REMOVED, U.N.O.
XXX	ROOM TAG
DXXX	KEYNOTE

RCP LEGEND - DEMO

DEMO WORK GENERAL NOTES & GENERAL SCOPE

1. ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.01 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.
2. SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.
3. DEMO EXTENT OF ARCHITECTURAL SCOPE TO ENABLE INSTALLATION OF NEW WORK INDICATED.
4. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, TECHNOLOGY COMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	EXISTING PARTITION TO BE REMOVED, U.N.O.
	AREA N.I.C.
	BOUNDARY OF WORK AREA
	ELEMENT TO BE DEMOLISHED/REMOVED
	LIMITS OF ACOUSTIC CEILING TILES TO BE REMOVED, U.N.O.
	SUPPLY DIFFUSER TO BE REMOVED
*S	EXG SPRINKLER HEAD TO BE REMOVED
	EXG LIGHT FIXTURE TO BE REMOVED
DXXX	KEYNOTE

KEYNOTES

D201	EXG ACT CEILING TO REMAIN
D202	EXG GWB CEILING TO REMAIN
D203	REMOVE EXG ACT TILES & GRID
D204	REMOVE EXG DIFFUSERS & GRILLES, TYP.
D205	REMOVE EXG LIGHT FIXTURES, TYP.
D206	REMOVE EXG PLYWOOD CLG
D208	SALVAGE EXG PROJECTOR SCREEN; RETURN TO OWNER.
D209	SALVAGE EXG CLG MTD PROJECTOR; RETURN TO OWNER.
D210	SALVAGE EXG OCCUPANCY SENSOR
D211	REMOVE EXG SPRINKLER HEAD, TYP.
D212	REMOVE MECHANICAL EQUIP.
D213	SALVAGE EXG WALL MTD ELEC EQUIP.
D216	REMOVE EXG SPEAKERS, TYP.
D217	SALVAGE EXG CLG TILES.
D301	PROTECT EXG PTN
D302	PROTECT EXG COLUMN, TYP.
D303	ETR EXTERIOR WALL
D305	REMOVE EXG PTN & ALL ITS COMPONENTS
D306	REMOVE & SALVAGE MARKERBOARDS
D307	REMOVE AND RECONFIGURE PORTION OF EXG PTN FOR NEW MECH. DUCTWORK ABV CLG.
D309	REMOVE ONE LAYER OF EXG GWB; PREP FOR NEW.
D401	REMOVE ALL EXG FLOOR BASE WITHIN SPACE
D402	REMOVE EXG CPT; PREP FLOOR FOR REPLACEMENT
D404	SAW-CUT AND REMOVE CONC EXG SLAB AND TRENCH BENEATH SLAB-ON-GRADE TO INSTALL CONDUITS FOR NEW FLOOR OUTLETS. APPROX. LOCATION.
D405	REMOVE & DISPOSE EXG FLOOR BOXES, TYP.
D501	ETR HM FRAME & DR
D502	ETR STOREFRONT WINDOW
D901	REMOVE EXG WINDOW SHADES & ALL ITS COMPONENTS
D902	REMOVE ABANDONED ITEMS: MEP, T-STATS, ETC...
D903	SALVAGE EXG BENCHES
D907	REMOVE EXG BASEBOARD COVER, ETR RADIATOR PIPING
D908	SALVAGE FURNITURE & EQUIP. TO OWNER
D910	SALVAGE EXG TELEPHONE
D911	REMOVE EXG ELEC DATA/OUTLET; SEE ELEC. DWGS
D912	ETR ELEC AND/OR DATA OUTLET; SEE ELEC. DWGS
D913	SALVAGE EXG ELEC EQUIP & FIRE ALARM DEVICES
D914	SALVAGE EXG WALL MTD CLOCK
D915	SALVAGE EXG INTERIOR ROOM SIGNAGE

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

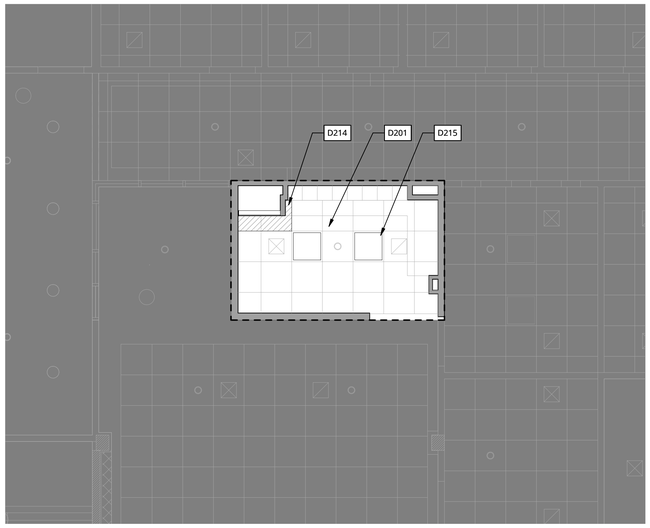
Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 04/08/24

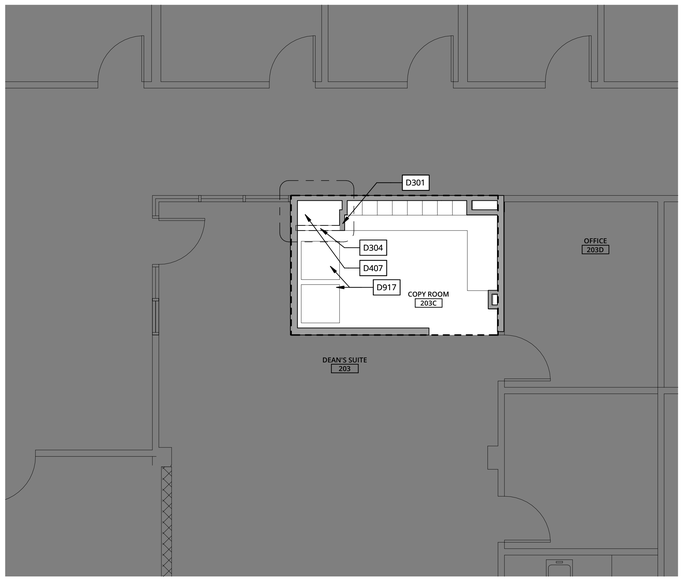
Revisions

Drawing Title
ENLARGED FLOOR PLAN AND REFLECTED CEILING PLAN - DEMOLITION

AD6.01



C6 AD6.02 **ENLARGED SECOND FLOOR REFLECTED CEILING PLAN - COPY ROOM - DEMOLITION**
SCALE: 1/4" = 1'-0"



C4 AD6.02 **ENLARGED SECOND FLOOR PLAN - COPY ROOM - DEMOLITION**
SCALE: 1/4" = 1'-0"

- REMOVE AND REINSTALL EXISTING CEILING TILES FOR ACCESS TO CHASE
- EXISTING CHASE TO REMAIN
- EXISTING WALLS TO REMAIN. PROTECT DURING CONSTRUCTION
- REMOVE WALL FOR NEW MECHANICAL SCOPE
- TEMPORARILY REMOVE EXG COPY MACHINE DURING CONSTRUCTION
- PROTECT EXG CASEWORK AND COUNTER DURING CONSTRUCTION

C2 AD6.02 **EXISTING COPY ROOM**
SCALE: 1/16" = 1'-0"

PLAN LEGEND - DEMO

DEMO WORK GENERAL NOTES & SCOPE
1. ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.01 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.
2. SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.
3. DEMO EXTENT OF ARCHITECTURAL SCOPE TO ENABLE INSTALLATION OF NEW WORK INDICATED.
4. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, TECHNOLOGY COMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	EXISTING PARTITION TO BE REMOVED, U.N.O.
	AREA NOT IN CONTRACT
	BOUNDARY OF WORK AREA
	ELEMENT TO BE DEMOLISHED/REMOVED
	LIMITS OF CONC SLAB SAWCUT
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME TO BE REMOVED, U.N.O.
XXX	ROOM TAG
DXXX	KEYNOTE

RCP LEGEND - DEMO

DEMO WORK GENERAL NOTES & GENERAL SCOPE
1. ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.01 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.
2. SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.
3. DEMO EXTENT OF ARCHITECTURAL SCOPE TO ENABLE INSTALLATION OF NEW WORK INDICATED.
4. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, TECHNOLOGY COMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

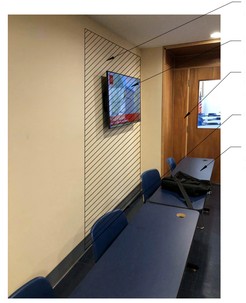
DRAWING LEGEND:
SEE DWG G0.01 FOR ADDL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	EXISTING PARTITION TO BE REMOVED, U.N.O.
	AREA N.I.C.
	BOUNDARY OF WORK AREA
	ELEMENT TO BE DEMOLISHED/REMOVED
	LIMITS OF ACOUSTIC CEILING TILES TO BE REMOVED, U.N.O.
	SUPPLY DIFFUSER TO BE REMOVED
*S	EXG SPRINKLER HEAD TO BE REMOVED
	EXG LIGHT FIXTURE TO BE REMOVED
DXXX	KEYNOTE

KEYNOTES

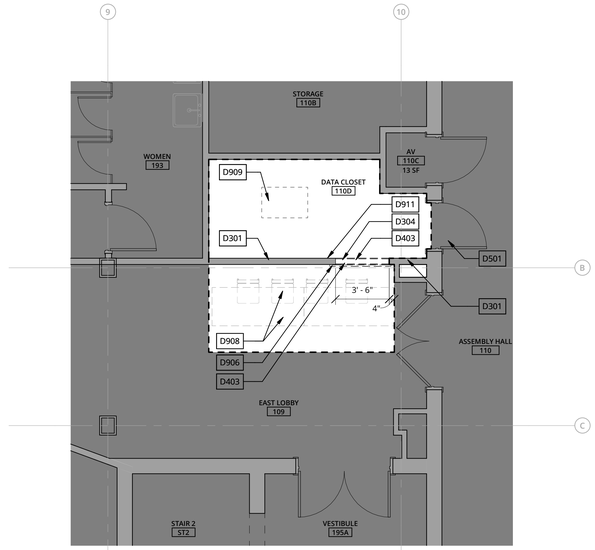
D201	EXG ACT CEILING TO REMAIN
D214	REMOVE AND REINTSTALL EXG ACT CEILINGS.
D215	ETR LIGHT FIXTURES, TYP.
D301	PROTECT EXG PTN
D304	REMOVE PORTION OF EXG PTN & ALL ITS COMPONENTS
D403	REMOVE EXG FLOOR BASE; PREP FLOOR FOR REPLACEMENT
D407	PROVIDE CONC CORES IN EXG CONC SLAB FOR INSTALL OF NEW MECH. SYS.; SEE M* SERIES.
D501	ETR HM FRAME & DR
D906	SALVAGE EXG TV DISPLAY
D908	SALVAGE FURNITURE & EQUIP. TO OWNER
D909	ETR AV RACK
D911	REMOVE EXG ELEC DATA/OUTLET; SEE ELEC. DWGS
D917	SALVAGE COPIER/PRINTER

- REMOVE PORTION OF THE WALL FOR A NEW DOOR OPENING
- RELOCATE ELECTRICAL DATA/OUTLET AS REQUIRED FOR NEW WORK
- REMOVE EXISTING WALL BASE



- REMOVE PORTION OF THE WALL FOR A NEW DOOR OPENING
- REMOVE AND SALVAGE TV FOR REINSTALL
- EXISTING DOOR TO REMAIN. PROTECT DURING CONSTRUCTION
- REMOVE EXISTING WALL BASE
- SALVAGE EXISTING FURNITURE AND EQUIPMENT; RETURN TO OWNER

A2 AD6.02 **EXISTING CORRIDOR AND IT DATA CLOSET PHOTOS**
SCALE: 1/16" = 1'-0"



A4 AD6.02 **ENLARGED FIRST FLOOR PLAN - DATA CLOSET - DEMO**
SCALE: 1/4" = 1'-0"

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 05/24/24

Revisions

Drawing Title
ENLARGED FLOOR PLANS - IT DATA CLOSET & COPY ROOM - DEMOLITION

AD6.02

PLAN LEGEND - PROPOSED

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

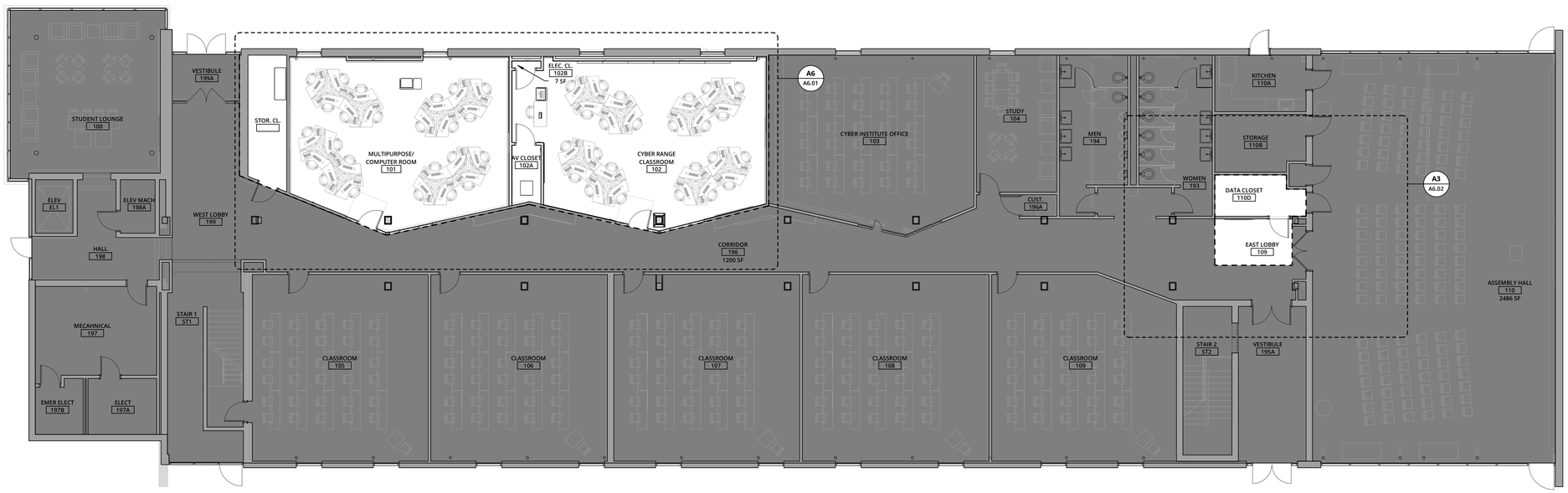
1. SEE FLOOR FINISH PLANS FOR FLOOR AND WALL FINISH ANNOTATION & DETAILS. SEE CEILING PLANS FOR CEILING FINISH

NEW WORK GENERAL SCOPE
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.

1. SEE FIRE PROTECTION, MECHANICAL, ELECTRICAL, TELECOMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	NEW PARTITION; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	BOUNDARY OF WORK AREA
	AREA N.I.C.
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME, U.N.O.
XXX	ROOM TAG
AXXX	KEYNOTE
SDA	WALL/ PARTITION TAG
FB	FLOOR BOX (SEE E* SERIES DWGS)



N

A6 / A1.01 01 OVERALL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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30 AUGUST 2024

Revisions

Drawing Title
OVERALL FIRST FLOOR PLAN

A1.01

PLAN LEGEND - PROPOSED

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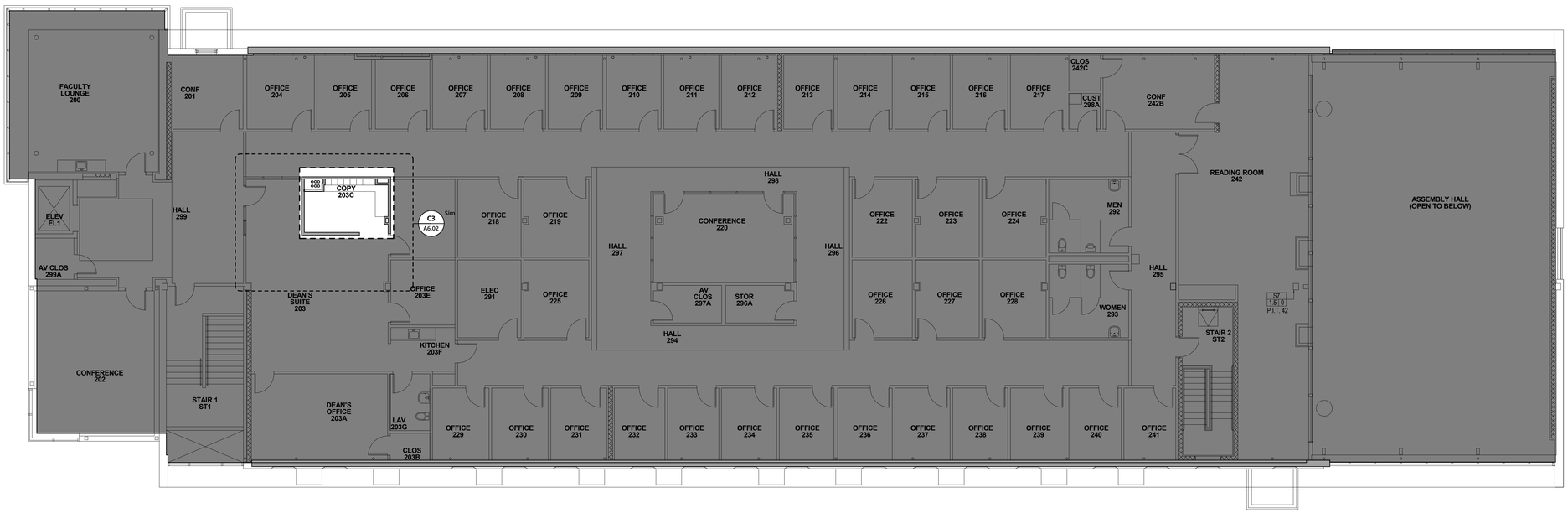
1. SEE FLOOR FINISH PLANS FOR FLOOR AND WALL FINISH ANNOTATION & DETAILS. SEE CEILING PLANS FOR CEILING FINISH

NEW WORK GENERAL SCOPE
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.

1. SEE FIRE PROTECTION, MECHANICAL, ELECTRICAL, TELECOMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	NEW PARTITION; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	BOUNDARY OF WORK AREA
	AREA N.I.C.
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME, U.N.O.
XXX	ROOM TAG
AXXX	KEYNOTE
SDA	WALL/ PARTITION TAG
FB	FLOOR BOX (SEE E* SERIES DWGS)



A6 / A1.02 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Project Information
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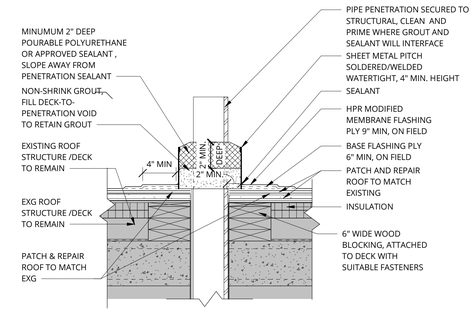
30 AUGUST 2024
DRAWING DATE: 06/07/24

Revisions

Drawing Title
OVERALL SECOND FLOOR PLAN

A1.02



GENERAL NOTE:
G.C. TO CONFIRM EXG CONDITIONS IIN FIELD.

D3 / A1.03 **TYPICAL PITCH POCKET AT PENETRATIONS (MATCH EXG ROOF SYSTEM, MATERIALS, AND ASSEMBLY)**
SCALE: 1 1/2" = 1'-0"

ROOF LEGEND - PROPOSED

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

NEW WORK GENERAL SCOPE
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.

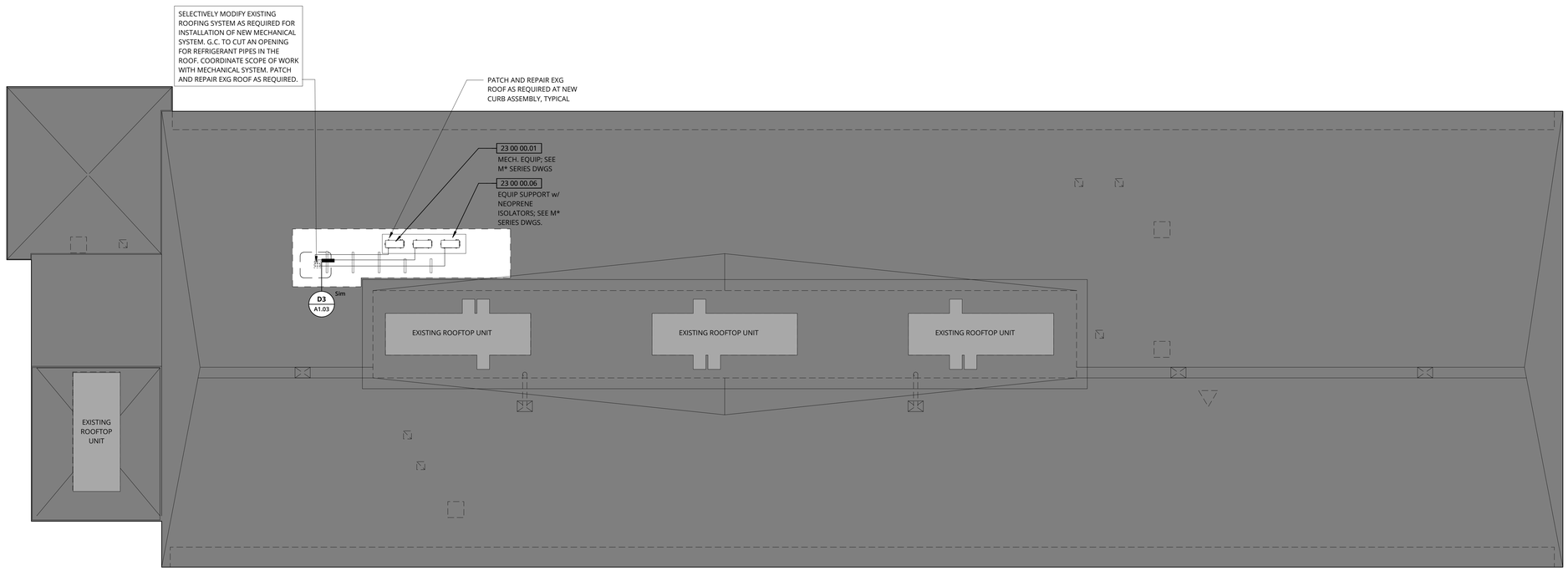
1. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	SCOPE OF WORK AREA
	AREA N.I.C.
	BOUNDARY OF WORK AREA

KEYNOTES

23 00 00.01	MECH. EQUIP; SEE M* SERIES DWGS
23 00 00.06	EQUIP SUPPORT w/ NEOPRENE ISOLATORS; SEE M* SERIES DWGS.



A6 / A1.03 **03 OVERALL ROOF PLAN**
SCALE: 1/8" = 1'-0"

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Project Location
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Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 06/07/24

Revisions

Drawing Title
OVERALL ROOF PLAN

A1.03

RCP LEGEND - PROPOSED

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

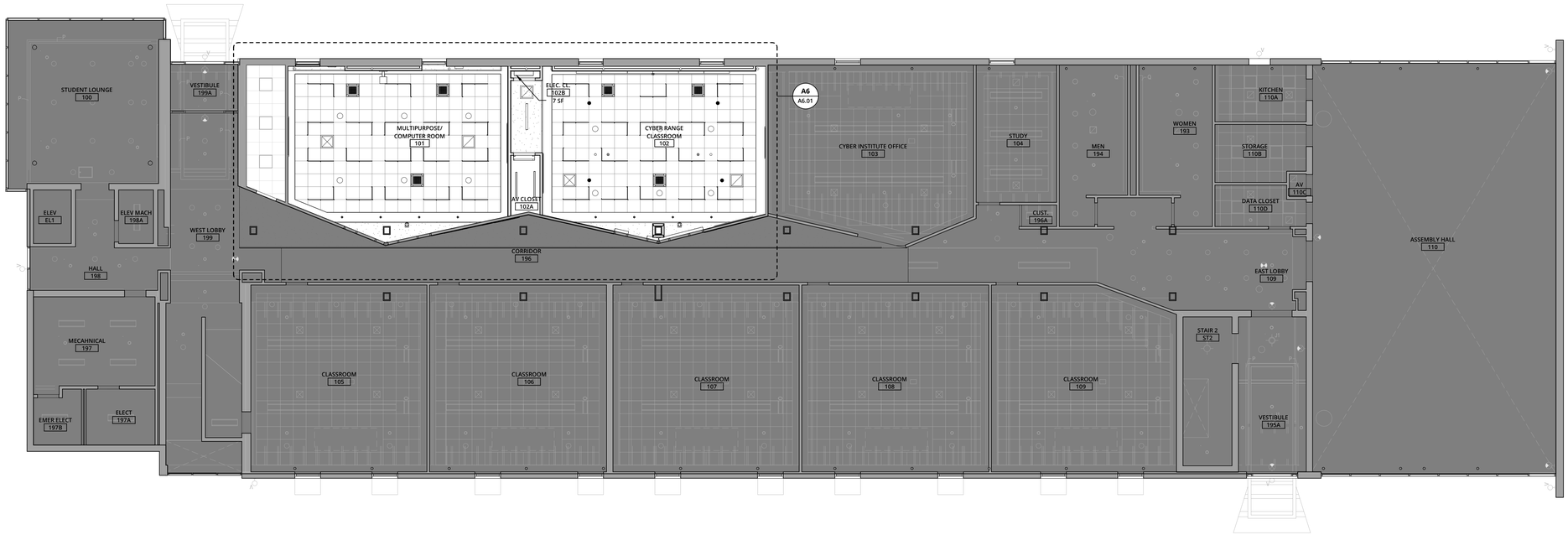
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL REFLECTED CEILING PLANS, WITHIN "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON PLANS.

1. LOCATE FIXTURES PER ARCHITECTURAL DRAWINGS, PLEASE COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECTS ATTENTION.
2. PRIOR TO WIRING ANY FIXTURES ARCHITECT TO FIELD APPROVE JUNCTION BOX LOCATIONS.
3. ALL LIGHT FIXTURES, FIRE ALARM COMPONENTS, HVAC COMPONENTS TO BE CENTERED IN A CEILING TILE OR CENTERED IN A SPACE, UNLESS NOTED OTHERWISE.
4. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING HEIGHTS.

SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	EXISTING PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	NEW PARTITION: PTN TYPE S3B U.N.O.; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	AREA NOT IN CONTRACT (N.I.C.)
	EXIST. CONSTR. TO BE MODIFIED WITHIN THIS AREA TO PERFORM WORK - REFER TO KEYNOTES FOR SPECIFIC SCOPE
1' - 0" A.F.F. / CLG-1 - 1HR	CLG. ELEVATION / TYPE - FIRE RATING
CEILING TYPES:	
	GWB CEILING
	ACT-1 (2' x 2'): STANDARD ACOUSTICAL TILE COLOR: BLACK; SEE MATERIAL LIST FOR MORE INFORMATION
	ACT-2 (2' x 2'): STANDARD ACOUSTICAL TILE COLOR: WHITE; SEE MATERIAL LIST FOR MORE INFORMATION
NO CLG	NO CEILING - OPEN TO EXG FL. FRAMING OVHD



N

A6 / A2.01 01 OVERALL FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

LLB ARCHITECTS
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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 06/13/24

Revisions

Drawing Title
OVERALL FIRST FLOOR REFLECTED CEILING PLAN

A2.01

RCP LEGEND - PROPOSED

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

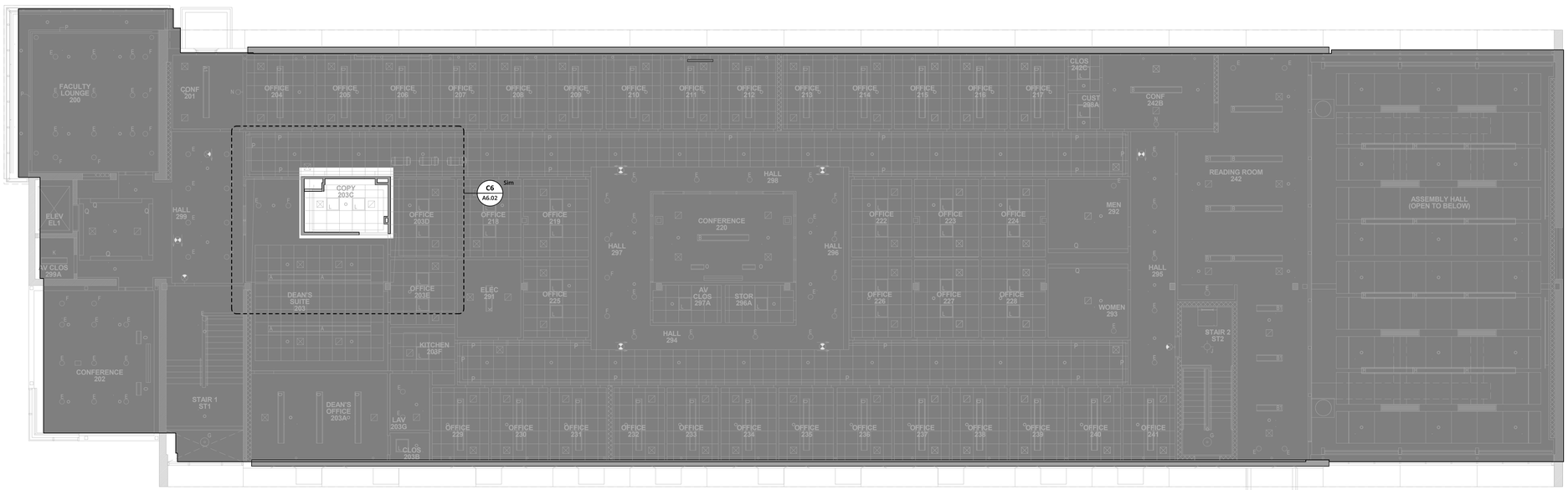
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL REFLECTED CEILING PLANS, WITHIN "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON PLANS.

1. LOCATE FIXTURES PER ARCHITECTURAL DRAWINGS, PLEASE COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECTS ATTENTION.
2. PRIOR TO WIRING ANY FIXTURES ARCHITECT TO FIELD APPROVE JUNCTION BOX LOCATIONS.
3. ALL LIGHT FIXTURES, FIRE ALARM COMPONENTS, HVAC COMPONENTS TO BE CENTERED IN A CEILING TILE OR CENTERED IN A SPACE, UNLESS NOTED OTHERWISE.
4. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING HEIGHTS.

SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	EXISTING PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	NEW PARTITION: PTN TYPE S3B U.N.O.; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	AREA NOT IN CONTRACT (N.I.C.)
	EXIST. CONSTR. TO BE MODIFIED WITHIN THIS AREA TO PERFORM WORK - REFER TO KEYNOTES FOR SPECIFIC SCOPE
1' - 0" A.F.F. / CLG-1 - 1HR	CLG. ELEVATION / TYPE - FIRE RATING
CEILING TYPES:	
	GWB CEILING
	ACT-1 (2' x 2'): STANDARD ACOUSTICAL TILE COLOR: BLACK; SEE MATERIAL LIST FOR MORE INFORMATION
	ACT-2 (2' x 2'): STANDARD ACOUSTICAL TILE COLOR: WHITE; SEE MATERIAL LIST FOR MORE INFORMATION
NO CLG	NO CEILING - OPEN TO EXG FL. FRAMING OVHD



N

A6 / A2.02 02 OVERALL SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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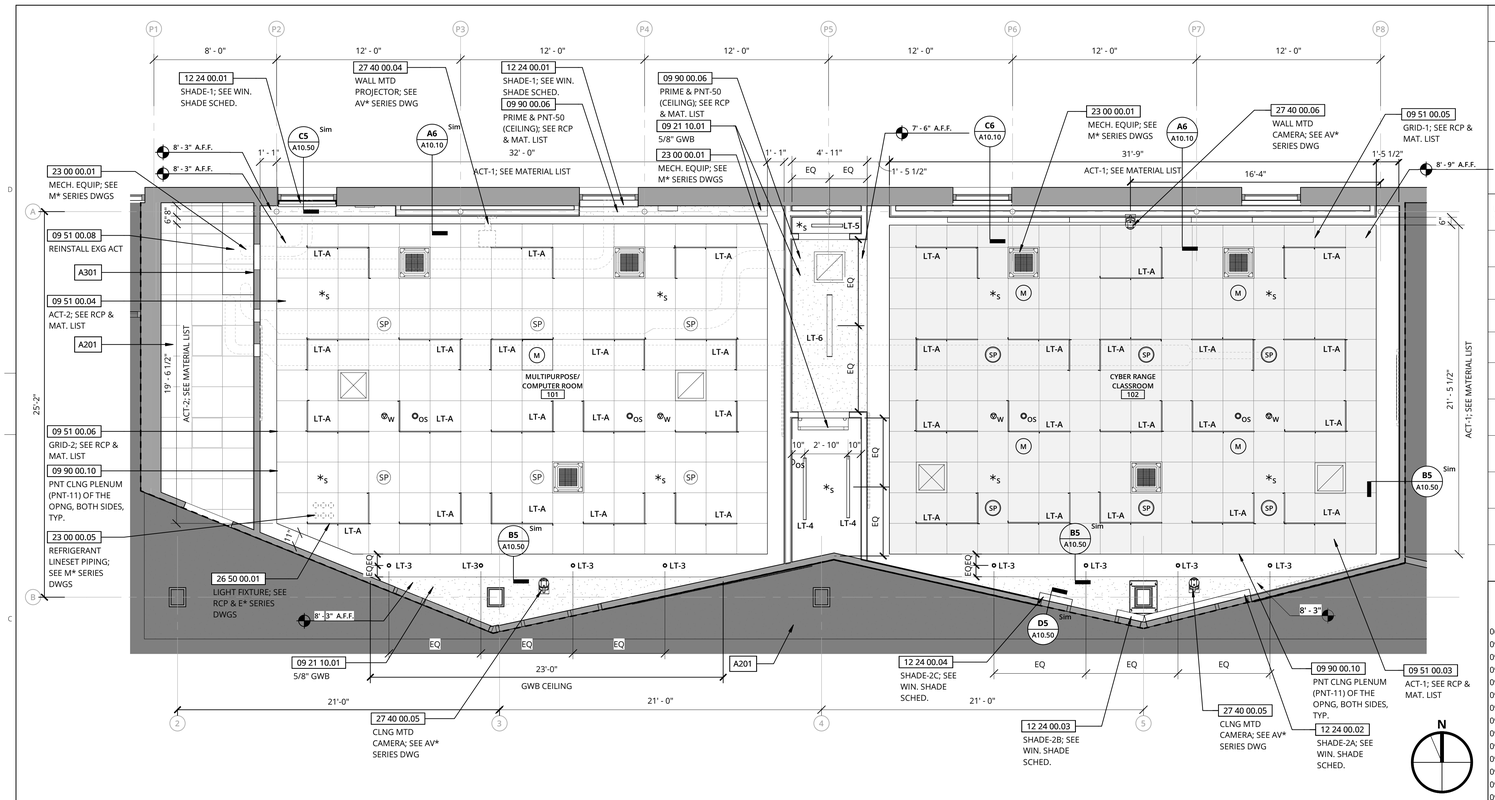
30 AUGUST 2024
DRAWING DATE: 07/15/24

Revisions

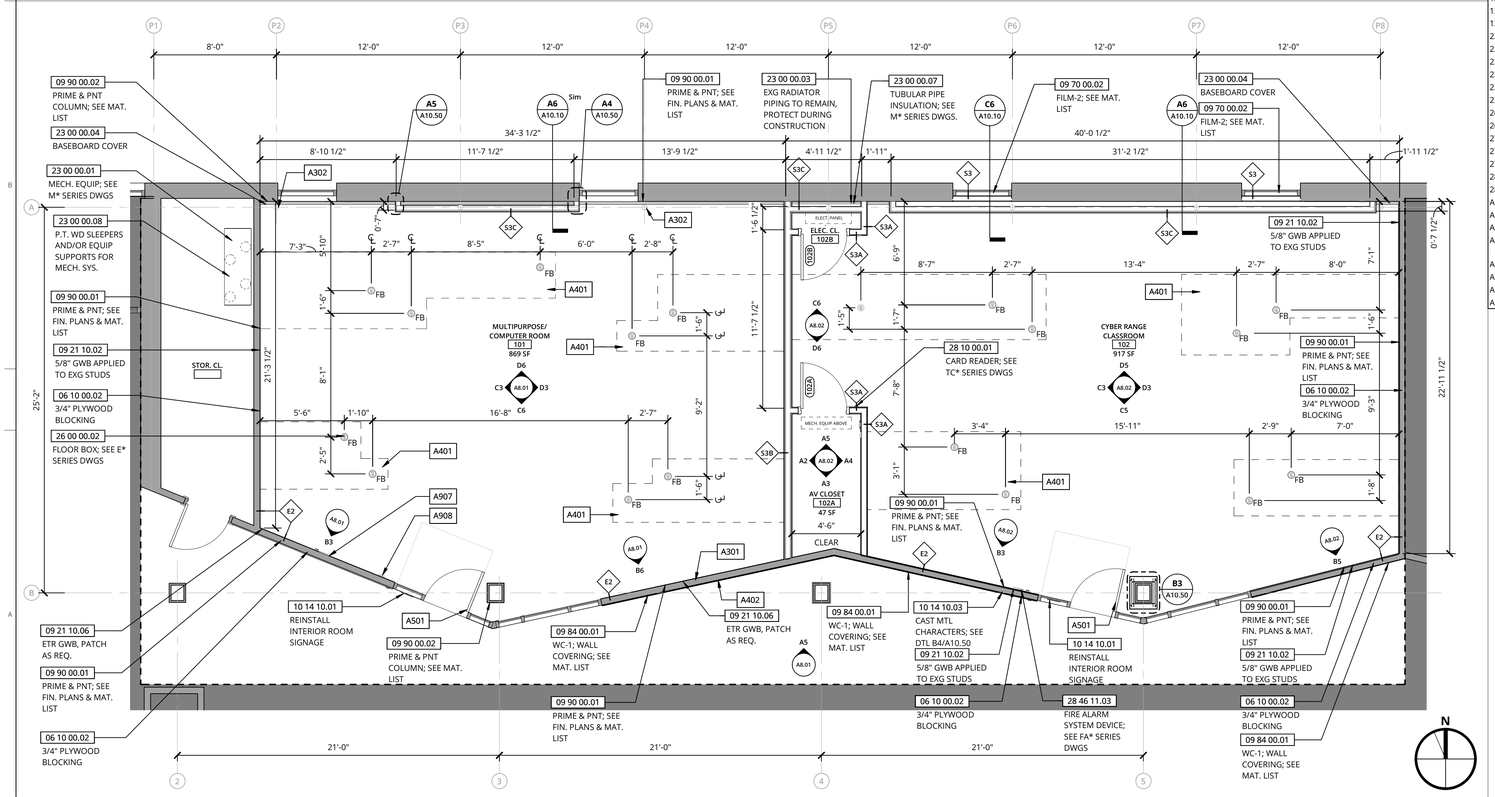
Drawing Title
OVERALL SECOND FLOOR REFLECTED CEILING PLAN

A2.02



C6 / A6.01 **01 ENLARGED FIRST FLOOR REFLECTED CEILING PLAN - ROOMS 101 AND 102**

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



A6 / A6.01 **ENLARGED FIRST FLOOR PLAN - ROOMS 101 AND 102**

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

PLAN LEGEND - PROPOSED

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

1. SEE FLOOR FINISH PLANS FOR FLOOR AND WALL FINISH ANNOTATION & DETAILS. SEE CEILING PLANS FOR CEILING FINISH

NEW WORK GENERAL SCOPE
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.

1. SEE FIRE PROTECTION, MECHANICAL, ELECTRICAL, TELECOMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	NEW PARTITION; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	BOUNDARY OF WORK AREA
	AREA N.I.C.
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME, U.N.O.
XXX	ROOM TAG
AXXX	KEYNOTE
00A	WALL/ PARTITION TAG
FB	FLOOR BOX (SEE E* SERIES DWGS)

KEYNOTES

06 10 00.02	3/4" PLYWOOD BLOCKING
09 21 10.01	5/8" GWB
09 21 10.02	5/8" GWB APPLIED TO EXG STUDS
09 21 10.06	ETR GWB, PATCH AS REQ.
09 51 00.03	ACT-1; SEE RCP & MAT. LIST
09 51 00.04	ACT-2; SEE RCP & MAT. LIST
09 51 00.05	GRID-1; SEE RCP & MAT. LIST
09 51 00.06	GRID-2; SEE RCP & MAT. LIST
09 51 00.08	REINSTALL EXG ACT
09 70 00.02	FILM-2; SEE MAT. LIST
09 84 00.01	WC-1; WALL COVERING; SEE MAT. LIST
09 90 00.01	PRIME & PNT; SEE FIN. PLANS & MAT. LIST
09 90 00.02	PRIME & PNT COLUMN; SEE MAT. LIST
09 90 00.06	PRIME & PNT-50 (CEILING); SEE RCP & MAT. LIST
09 90 00.10	PNT CLNG PLENUM (PNT-11) OF THE OPNG, BOTH SIDES, TYP.
10 14 10.01	REINSTALL INTERIOR ROOM SIGNAGE
10 14 10.03	CAST MTL CHARACTERS; SEE DTL B4/A10.50
12 24 00.01	SHADE-1; SEE WIN. SHADE SCHED.
12 24 00.02	SHADE-2A; SEE WIN. SHADE SCHED.
12 24 00.03	SHADE-2B; SEE WIN. SHADE SCHED.
12 24 00.04	SHADE-2C; SEE WIN. SHADE SCHED.
23 00 00.01	MECH. EQUIP; SEE M* SERIES DWGS
23 00 00.03	EXG RADIATOR PIPING TO REMAIN, PROTECT DURING CONSTRUCTION
23 00 00.04	BASEBOARD COVER
23 00 00.05	REFRIGERANT LINESET PIPING; SEE M* SERIES DWGS
23 00 00.07	TUBULAR PIPE INSULATION; SEE M* SERIES DWGS.
23 00 00.08	P.T. WD SLEEPERS AND/OR EQUIP SUPPORTS FOR MECH. SYS.
26 00 00.02	FLOOR BOX; SEE E* SERIES DWGS
26 50 00.01	LIGHT FIXTURE; SEE RCP & E* SERIES DWGS
27 40 00.04	WALL MTD CAMERA; SEE AV* SERIES DWG
27 40 00.05	CLNG MTD CAMERA; SEE AV* SERIES DWG
27 40 00.06	WALL MTD CAMERA; SEE AV* SERIES DWG
28 10 00.01	CARD READER; SEE TC* SERIES DWGS
28 46 11.03	FIRE ALARM SYSTEM DEVICE; SEE FA* SERIES DWGS
A201	ETR CEILING
A301	PATCH & REPAIR EXG WALL AS REQ.
A302	ETR COLUMN
A401	CONC REPAIR, INFILL, AND TOPPING OF EXISTING CONCRETE SUBFLOORING AND FINISH FLOORING SYSTEM SUBSTRATE
A402	ETR WALL BASE
A501	ETR HM FRAME & DOOR
A907	ETR ELEC. FIXTURE/EQUIP
A908	ETR FIRE ALARM

RCP LEGEND - PROPOSED

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL REFLECTED CEILING PLANS, WITHIN "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON PLANS.

1. LOCATE FIXTURES PER ARCHITECTURAL DRAWINGS, PLEASE COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECTS ATTENTION.
2. PRIOR TO WIRING ANY FIXTURES ARCHITECT TO FIELD APPROVE JUNCTION BOX LOCATIONS.
3. ALL LIGHT FIXTURES, FIRE ALARM COMPONENTS, HVAC COMPONENTS TO BE CENTERED IN A CEILING TILE OR CENTERED IN A SPACE, UNLESS NOTED OTHERWISE.
4. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING HEIGHTS.
5. PAINTING AV/IT CABLING IS STRICTLY PROHIBITED, TYPICAL.
6. ALL CEILING FIXTURES IN THE CYBER RANGE CLASSROOM (102) WITHIN THE ACT-1 CEILING ARE TO BE BLACK IN COLOR, UNLESS NOTED OTHERWISE.

SEE FIRE PROTECTION, MECHANICAL, ELECTRICAL, TELECOMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	EXISTING PARTITION TO REMAIN.
	NEW PARTITION; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	AREA NOT IN CONTRACT (N.I.C.)
	EXIST. CONSTR. TO BE MODIFIED WITHIN THIS AREA TO PERFORM WORK - REFER TO KEYNOTES FOR SPECIFIC SCOPE
1' - 0" A.F.F. CLG-1 · 1HR	CLG. ELEVATION TYPE · FIRE RATING

CEILING TYPES:

	GWB CEILING
	ACT-1 (2' x 2'): STANDARD ACOUSTICAL TILE COLOR: BLACK; SEE MATERIAL LIST FOR MORE INFORMATION
	ACT-2 (2' x 2'): STANDARD ACOUSTICAL TILE COLOR: WHITE; SEE MATERIAL LIST FOR MORE INFORMATION
	NO CEILING - OPEN TO EXG FL. FRAMING OVHD

LIGHTING FIXTURES (SEE E* SERIES DWGS)

TYPE LT-1 TYPE LT-2	TYPE LT-A: TYPE LT-1: 48" T-BAR LED BLOCK CLEAR DIFFUSING LENS FIXTURE TYPE LT-2: 24" T-BAR LED BLOCK CLEAR DIFFUSING LENS FIXTURE PROVIDE w/ REQ. CLIP COMPATIBLE w/ GRID, TYP.
	TYPE LT-3: 3" CYLINDER PENDANT LED FIXTURE
	TYPE LT-4: 48" LINEAR PENDANT LED FIXTURE
	TYPE LT-5: 24" LINEAR PENDANT LED FIXTURE
	TYPE LT-6: 48" LINEAR RECESSED LED FIXTURE

ELECTRICAL FIXTURES (SEE E* SERIES DWGS)

OS	OCCUPANCY SENSOR COLOR: BLACK

MECHANICAL (SEE M* SERIES DWGS)

	24x24 CEILING-RECESSED CASSETTE DUCTLESS HEAT PUMP COLOR: BLACK
	24x24 SUPPLY DIFFUSER COLOR: BLACK

FIRE SUPPRESSION (SEE FP* SERIES DWGS)

S	SPRINKLER HEAD COLOR: BLACK

TELECOMMUNICATION DEVICES (SEE TC* SERIES DWGS)

W	WIRELESS ACCESS POINT COLOR: BLACK

AUDIO VISUAL FIXTURES (SEE AV* SERIES DWGS)

SP	SPEAKER COLOR: BLACK
M	MICROPHONE COLOR: BLACK
	CAMERA; SEE AV DWGS FOR BASIS OF DESIGN INFORMATION

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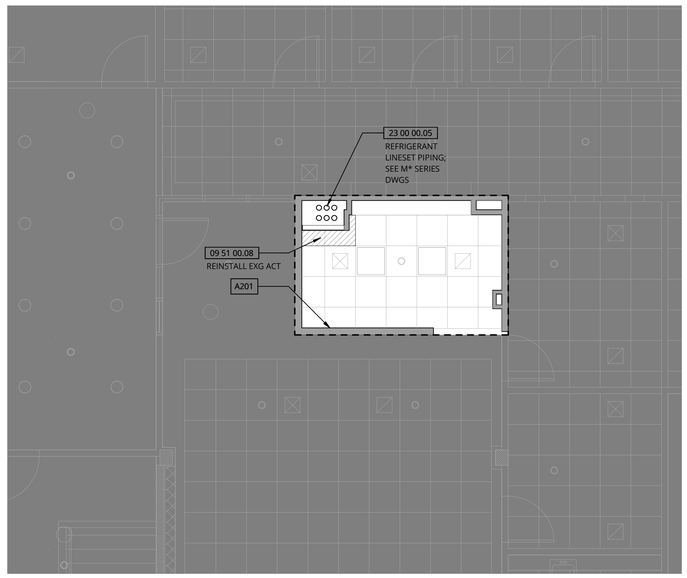
Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

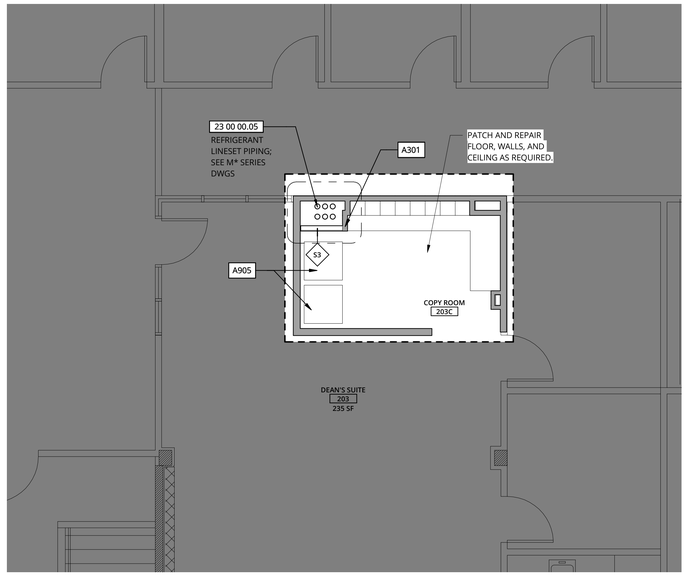
Revisions

Drawing Title
ENLARGED FLOOR PLAN AND REFLECTED CEILING PLANS

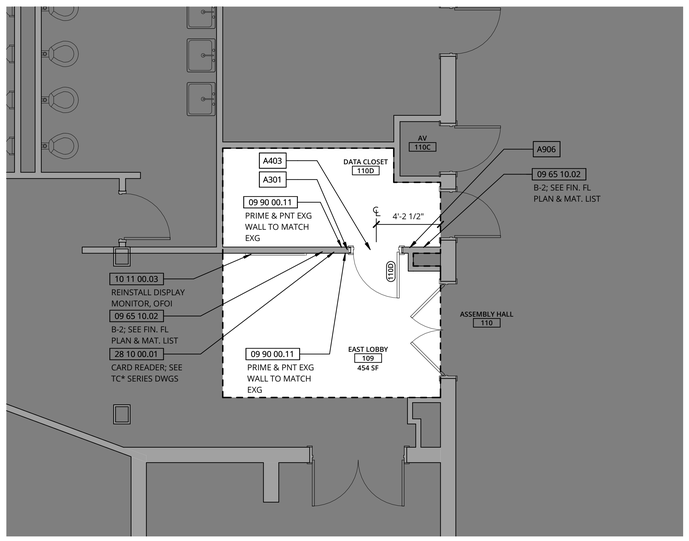
A6.01



C6 / A6.02 **02 ENLARGED SECOND FLOOR REFLECTED CEILING PLAN - COPY ROOM**
SCALE: 1/4" = 1'-0"



C3 / A6.02 **ENLARGED SECOND FLOOR PLAN - COPY ROOM**
SCALE: 1/4" = 1'-0"



A3 / A6.02 **01 ENLARGED FIRST FLOOR PLAN - IT DATA CLOSET**
SCALE: 1/4" = 1'-0"

PLAN LEGEND - PROPOSED

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

1. SEE FLOOR FINISH PLANS FOR FLOOR AND WALL FINISH ANNOTATION & DETAILS. SEE CEILING PLANS FOR CEILING FINISH

NEW WORK GENERAL SCOPE
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.

1. SEE FIRE PROTECTION, MECHANICAL, ELECTRICAL, TELECOMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	NEW PARTITION; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	BOUNDARY OF WORK AREA
	AREA N.I.C.
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME, U.N.O.
XXX	ROOM TAG
AXXX	KEYNOTE
S0A	WALL/ PARTITION TAG
FB	FLOOR BOX (SEE E* SERIES DWGS)

KEYNOTES

09 51 00.08	REINSTALL EXG ACT
09 65 10.02	B-2; SEE FIN. FL PLAN & MAT. LIST
09 90 00.11	PRIME & PNT EXG WALL TO MATCH EXG
10 11 00.03	REINSTALL DISPLAY MONITOR, OFOI
23 00 00.05	REFRIGERANT LINESET PIPING; SEE M* SERIES DWGS
28 10 00.01	CARD READER; SEE TC* SERIES DWGS
A201	ETR CEILING
A301	PATCH & REPAIR EXG WALL AS REQ.
A403	PATCH & REPAIR EXG FLOORING AS REQ.
A905	REINSTALL COPIER/PRINTER
A906	ETR EXG ELEC. OUTLET

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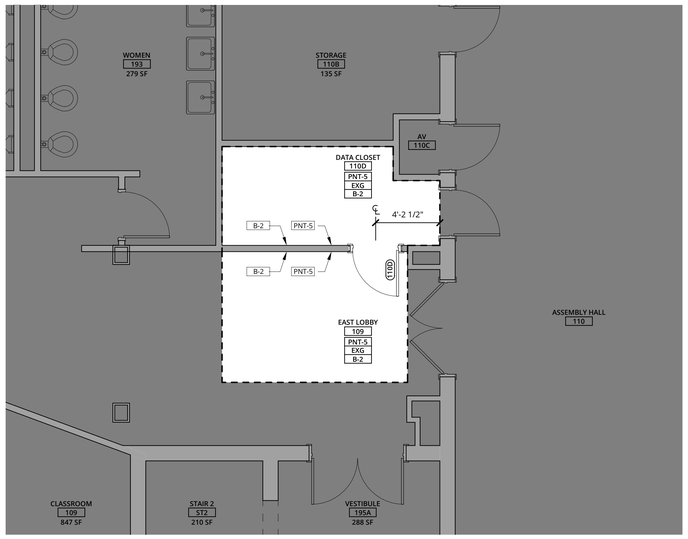
30 AUGUST 2024
DRAWING DATE: 05/27/24

Revisions

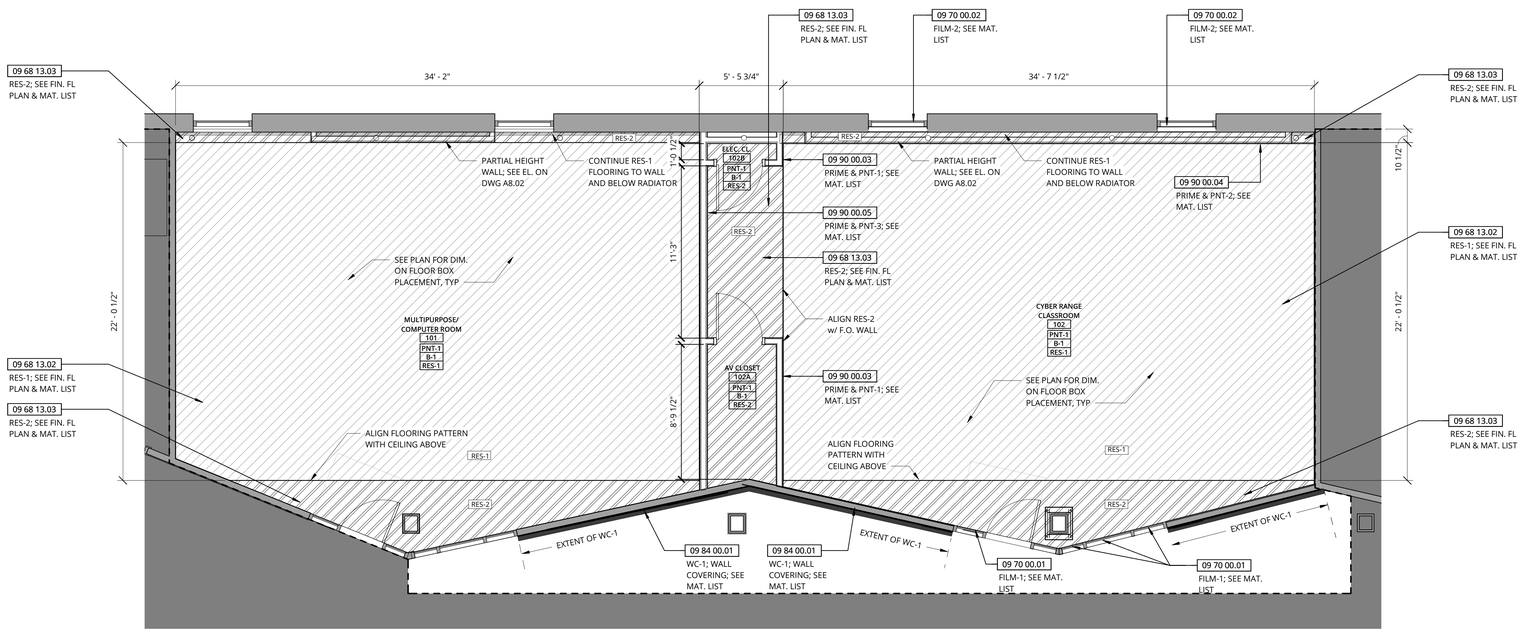
Drawing Title
ENLARGED FLOOR PLAN - IT DATA CLOSET - PROPOSED

A6.02



C2 / A6.50 01 ENLARGED FIRST FLOOR FINISH PLAN - IT DATA CLOSET

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



A6 / A6.50 ENLARGED FIRST FLOOR FINISH PLAN

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

FINISH PLAN LEGEND

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

SEE CEILING PLANS FOR CEILING FINISH.

FINISH WORK GENERAL NOTES

1. ALL EXISTING TO REMAIN FLOORING TO BE PROTECTED DURING WORK. FLOORING NOT DIAGRAMMED WITH PATTERN SHALL BE READ AS EXISTING TO REMAIN.
2. CARPET TRANSITIONS SHOULD BE LEVEL; IF ADJACENT CARPETS HAVE DISSIMILAR CARPET THICKNESS, PROVIDE RESILIENT TRANSITION STRIP OR FLASH PATCH CONC. SLAB AS REQ. UNDER CARPET TO MAKE LEVEL TRANSITION.
3. TRANSITIONS BETWEEN ADJACENT FLOORING MATERIALS SHALL OCCUR UNDER THE CENTERLINE OF A DOOR (WHEN CLOSED), OR AS NOTED BY ARCHITECT. CONTRACTOR TO CONFIRM LOCATIONS OF FLOORING TRANSITIONS, AND LOCATIONS WITH ARCHITECT AND OWNER BEFORE BEGINNING PROCEEDING WITH THIS PORTION OF THE WORK.
4. SAMPLE WALL COLORS TO BE MOCKED UP IN PLACE WITH LIGHTING INSTALLED AND/OR, APPROVAL FROM ARCHITECT AND OWNER OF ALL COLOR SAMPLES IS REQUIRED PRIOR TO PROCEEDING WITH THIS PORTION OF THE WORK.

ROOM NAME 100 WAL-1 BAS-1 FLR-1 XXX	ROOM NUMBER WALL/ PARTITION FINISH BASE FINISH FLOOR FINISH ACCENT FINISH AS DESIGNATED

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	NEW PARTITION: PTN TYPE S3B U.N.O.; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	AREA N.I.C.
	BOUNDARY OF WORK AREA PROVIDED BY LLB ARCHITECTS. ANY ADDITIONAL SCOPE OUTSIDE OF THE BOUNDARIES IS BY THE OWNER.
	RESILIENT FLOORING FINISH MATERIAL = RES-1
	RESILIENT FLOORING FINISH MATERIAL = RES-2
	WALL COVERING FINISH MATERIAL = WC -1

KEYNOTES

09 68 13.02	RES-1; SEE FIN. FL PLAN & MAT. LIST
09 68 13.03	RES-2; SEE FIN. FL PLAN & MAT. LIST
09 70 00.01	FILM-1; SEE MAT. LIST
09 70 00.02	FILM-2; SEE MAT. LIST
09 84 00.01	WC-1; WALL COVERING; SEE MAT. LIST
09 90 00.03	PRIME & PNT-1; SEE MAT. LIST
09 90 00.04	PRIME & PNT-2; SEE MAT. LIST
09 90 00.05	PRIME & PNT-3; SEE MAT. LIST

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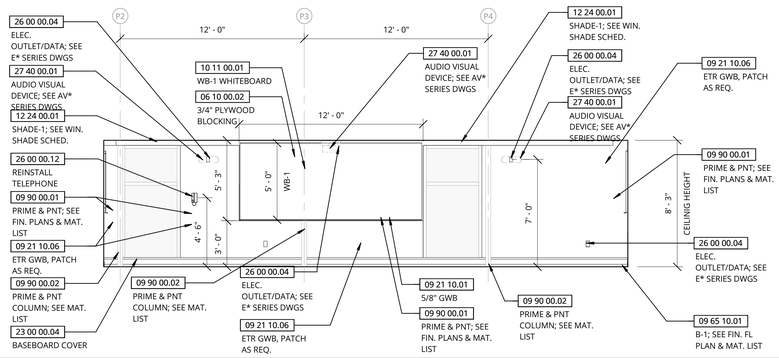
30 AUGUST 2024

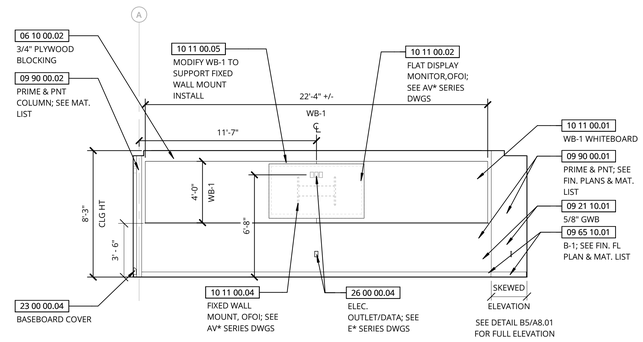
Revisions

Drawing Title
ENLARGED FINISH PLAN

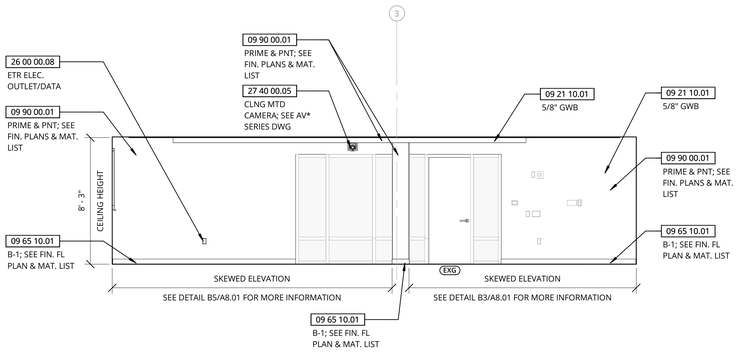
A6.50



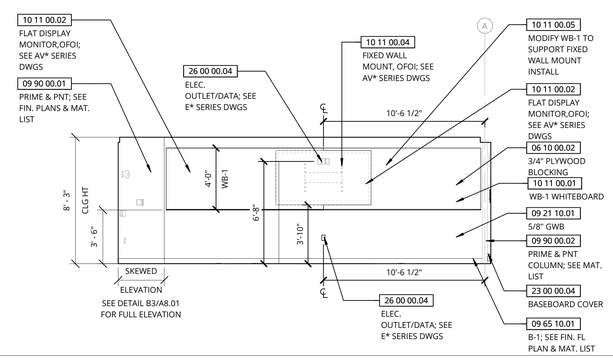
D6 A8.01 **INTERIOR ELEVATION - MULTIPURPOSE/ COMPUTER ROOM - NORTH**
SCALE: 1/4" = 1'-0"



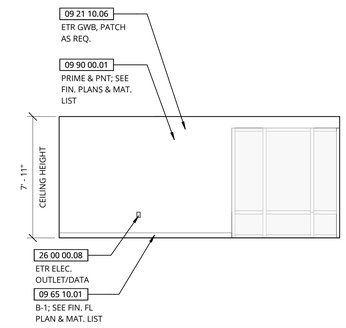
D3 A8.01 **INTERIOR ELEVATION - MULTIPURPOSE/ COMPUTER ROOM - EAST**
SCALE: 1/4" = 1'-0"



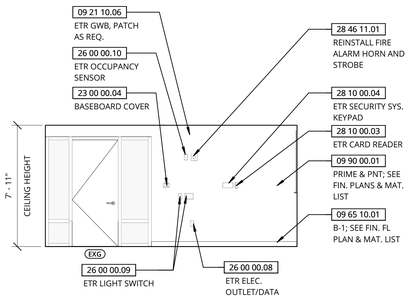
C6 A8.01 **INTERIOR ELEVATION - MULTIPURPOSE/ COMPUTER ROOM - SOUTH**
SCALE: 1/4" = 1'-0"



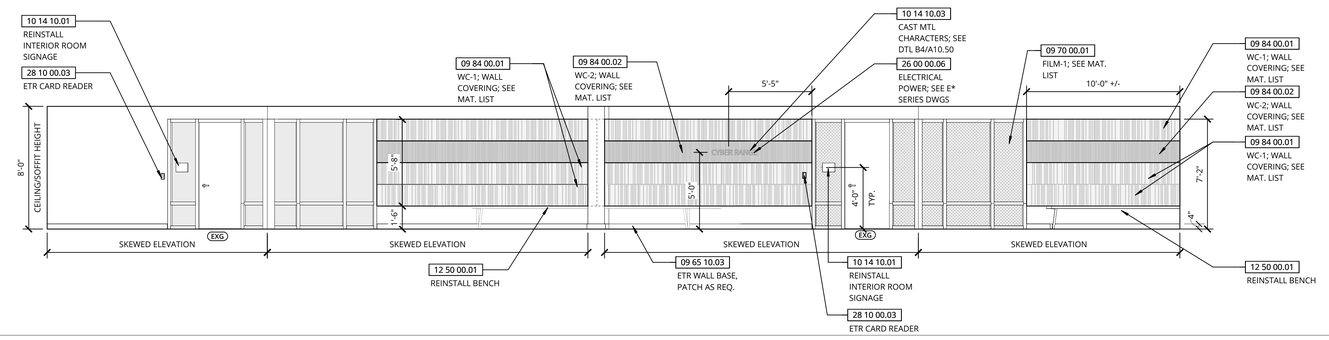
C3 A8.01 **INTERIOR ELEVATION - MULTIPURPOSE/ COMPUTER ROOM - WEST**
SCALE: 1/4" = 1'-0"



B6 A8.01 **INTERIOR ELEVATION - MULTIPURPOSE/ COMPUTER ROOM - SOUTH B**
SCALE: 1/4" = 1'-0"



B3 A8.01 **INTERIOR ELEVATION - MULTIPURPOSE/ COMPUTER ROOM - SOUTH A**
SCALE: 1/4" = 1'-0"



A5 A8.01 **INTERIOR ELEVATION - CORRIDOR**
SCALE: 1/4" = 1'-0"

GENERAL NOTES

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

NEW WORK GENERAL SCOPE
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.

1. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, DRAWINGS FOR SYSTEMS SCOPE.
2. EXISTING WINDOWS TO REMAIN, PROTECT DURING CONSTRUCTION.
3. EXISTIMG STOREFRONT SYSTEM AND DOOR TO REMAIN. PROTECT DURING CONSTRUCTION

KEYNOTES

06 10 00.02	3/4" PLYWOOD BLOCKING
09 21 10.01	5/8" GWB
09 21 10.06	ETR GWB, PATCH AS REQ.
09 65 10.01	B-1; SEE FIN. FL PLAN & MAT. LIST
09 65 10.03	ETR WALL BASE, PATCH AS REQ.
09 70 00.01	FILM-1; SEE MAT. LIST
09 84 00.01	WC-1; WALL COVERING; SEE MAT. LIST
09 84 00.02	WC-2; WALL COVERING; SEE MAT. LIST
09 90 00.01	PRIME & PNT; SEE FIN. PLANS & MAT. LIST
09 90 00.02	PRIME & PNT COLUMN; SEE MAT. LIST
10 11 00.01	WB-1 WHITEBOARD
10 11 00.02	FLAT DISPLAY MONITOR,OFOI; SEE AV* SERIES DWGS
10 11 00.04	FIXED WALL MOUNT, OFOI; SEE AV* SERIES DWGS
10 11 00.05	MODIFY WB-1 TO SUPPORT FIXED WALL MOUNT INSTALL
10 14 10.01	REINSTALL INTERIOR ROOM SIGNAGE
10 14 10.03	CAST MTL CHARACTERS; SEE DTL B4/A10.50
12 24 00.01	SHADE-1; SEE WIN. SHADE SCHED.
12 50 00.01	REINSTALL BENCH
23 00 00.04	BASEBOARD COVER
26 00 00.04	ELEC. OUTLET/DATA; SEE E* SERIES DWGS
26 00 00.06	ELECTRICAL POWER; SEE E* SERIES DWGS
26 00 00.08	ETR ELEC. OUTLET/DATA
26 00 00.09	ETR LIGHT SWITCH
26 00 00.10	ETR OCCUPANCY SENSOR
26 00 00.12	REINSTALL TELEPHONE
27 40 00.01	AUDIO VISUAL DEVICE; SEE AV* SERIES DWGS
27 40 00.05	CLNG MTD CAMERA; SEE AV* SERIES DWG
28 10 00.03	ETR CARD READER
28 10 00.04	ETR SECURITY SYS. KEYPAD
28 46 11.01	REINSTALL FIRE ALARM HORN AND STROBE

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

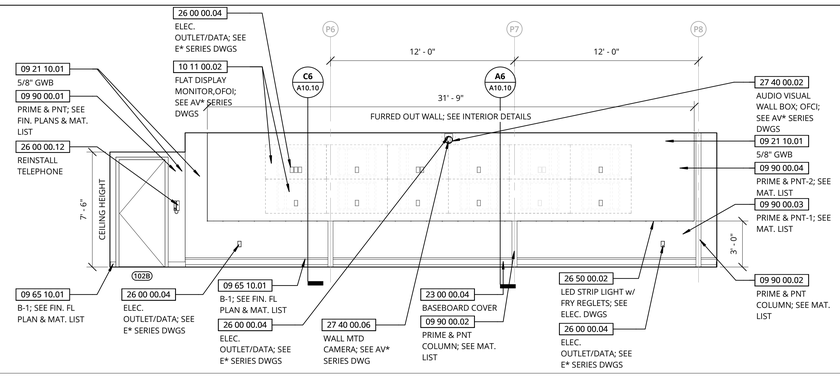
Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

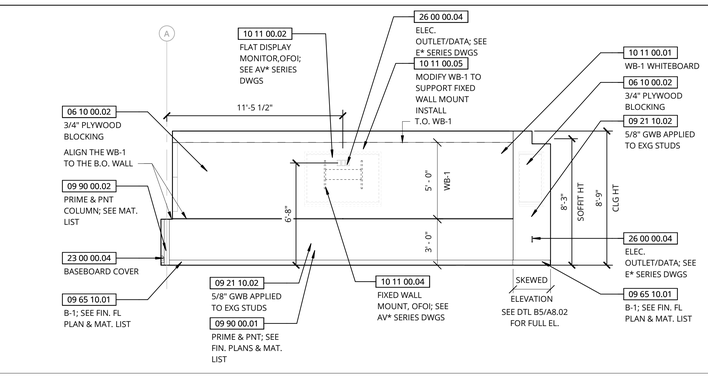
Drawing Title
INTERIOR ELEVATIONS - MULTIPURPOSE/ COMPUTER ROOM (RM 101)

A8.01



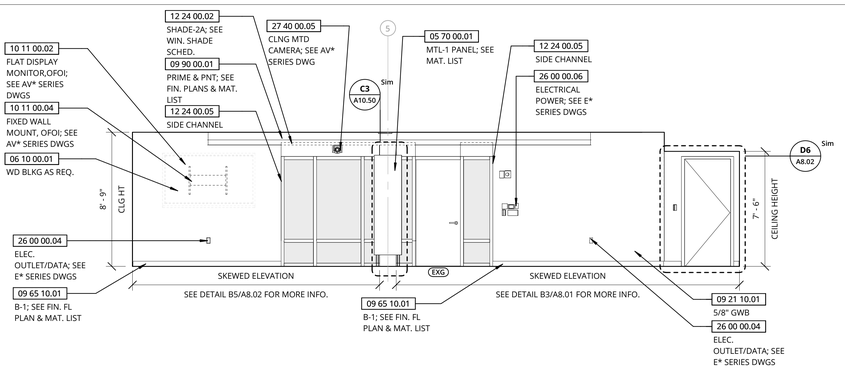
D5 A8.02 **INTERIOR ELEVATION - CYBER RANGE CLASSROOM - NORTH**

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



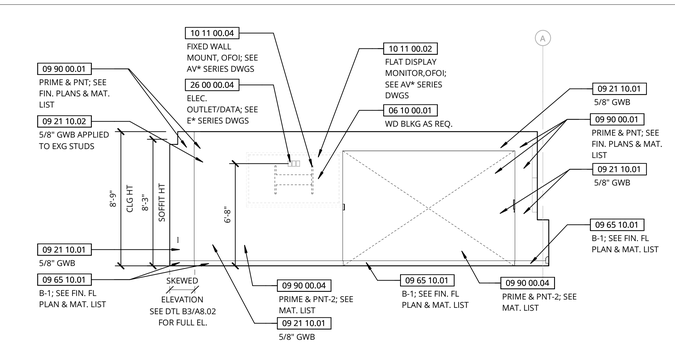
D3 A8.02 **INTERIOR ELEVATION - CYBER RANGE CLASSROOM - EAST**

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



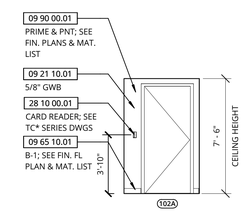
C5 A8.02 **INTERIOR ELEVATION - CYBER RANGE CLASSROOM - SOUTH**

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



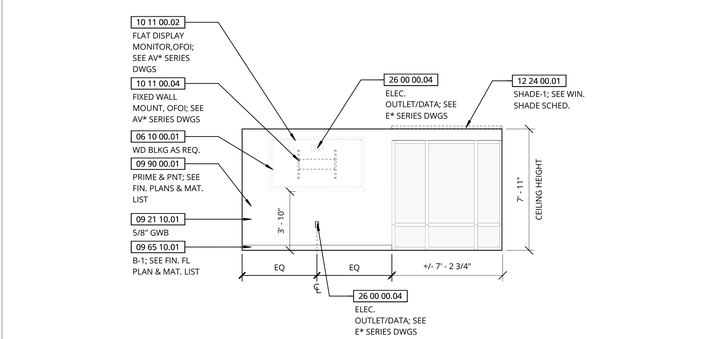
C3 A8.02 **INTERIOR ELEVATION - CYBER RANGE CLASSROOM - WEST**

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



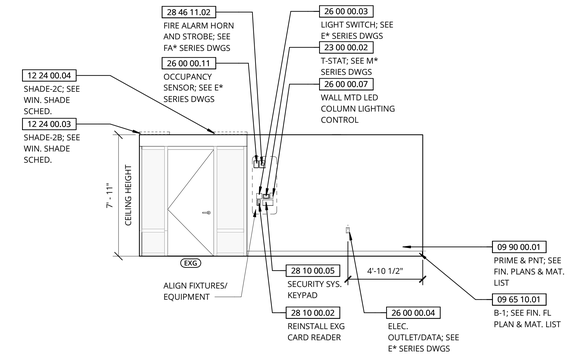
D6 A8.02 **PARTIAL INTERIOR ELEVATION - AV CLOSET - SOUTH**

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



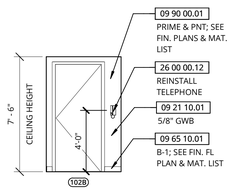
B5 A8.02 **INTERIOR ELEVATION - CYBER RANGE CLASSROOM - SOUTH B**

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



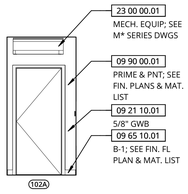
B3 A8.02 **INTERIOR ELEVATION - CYBER RANGE CLASSROOM - SOUTH A**

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



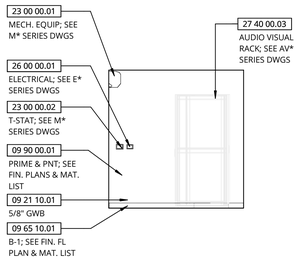
C6 A8.02 **PARTIAL INTERIOR ELEVATION - ELECT CLOSET - NORTH**

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



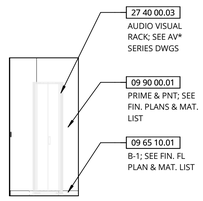
A5 A8.02 **INTERIOR ELEVATION - AV CLOSET - NORTH**

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



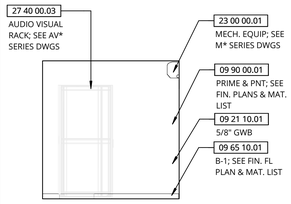
A4 A8.02 **INTERIOR ELEVATION - AV CLOSET - EAST**

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



A3 A8.02 **INTERIOR ELEVATION - AV CLOSET - SOUTH**

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



A2 A8.02 **INTERIOR ELEVATION - AV CLOSET - WEST**

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

GENERAL NOTES

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

NEW WORK GENERAL SCOPE
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.

1. SEE FIRE PROTECTION, MECHANICAL, & ELECTRICAL, DRAWINGS FOR SYSTEMS SCOPE.
2. EXISTING WINDOWS TO REMAIN, PROTECT DURING CONSTRUCTION.
3. EXISTING STOREFRONT SYSTEM AND DOOR TO REMAIN. PROTECT DURING CONSTRUCTION

KEYNOTES

05 70 00.01	MTL-1 PANEL; SEE MAT. LIST
06 10 00.01	WD BLKG AS REQ.
06 10 00.02	3/4" PLYWOOD BLOCKING
08 11 10.02	HM-1 - SEE FRAME TYPES
09 21 10.01	5/8" GWB
09 21 10.02	5/8" GWB APPLIED TO EXG STUDS
09 65 10.01	B-1; SEE FIN. FL PLAN & MAT. LIST
09 90 00.01	PRIME & PNT; SEE FIN. PLANS & MAT. LIST
09 90 00.02	PRIME & PNT COLUMN; SEE MAT. LIST
09 90 00.03	PRIME & PNT-1; SEE MAT. LIST
09 90 00.04	PRIME & PNT-2; SEE MAT. LIST
10 11 00.01	WB-1 WHITEBOARD
10 11 00.02	FLAT DISPLAY MONITOR,OFOI; SEE AV* SERIES DWGS
10 11 00.04	FIXED WALL MOUNT, OFOI; SEE AV* SERIES DWGS
10 11 00.05	MODIFY WB-1 TO SUPPORT FIXED WALL MOUNT INSTALL
12 24 00.01	SHADE-1; SEE WIN. SHADE SCHED.
12 24 00.02	SHADE-2A; SEE WIN. SHADE SCHED.
12 24 00.03	SHADE-2B; SEE WIN. SHADE SCHED.
12 24 00.04	SHADE-2C; SEE WIN. SHADE SCHED.
12 24 00.05	SIDE CHANNEL
23 00 00.01	MECH. EQUIP; SEE M* SERIES DWGS
23 00 00.02	T-STAT; SEE M* SERIES DWGS
23 00 00.04	BASEBOARD COVER
26 00 00.01	ELECTRICAL; SEE E* SERIES DWGS
26 00 00.03	LIGHT SWITCH; SEE E* SERIES DWGS
26 00 00.04	ELEC. OUTLET/DATA; SEE E* SERIES DWGS
26 00 00.06	ELECTRICAL POWER; SEE E* SERIES DWGS
26 00 00.07	WALL MTD LED COLUMN LIGHTING CONTROL
26 00 00.11	OCCUPANCY SENSOR; SEE E* SERIES DWGS
26 00 00.12	REINSTALL TELEPHONE
26 50 00.02	LED STRIP LIGHT w/ FRY REGLETS; SEE ELEC. DWGS
27 40 00.02	AUDIO VISUAL WALL BOX; OFCI; SEE AV* SERIES DWGS
27 40 00.03	AUDIO VISUAL RACK; SEE AV* SERIES DWGS
27 40 00.05	CLNG MTD CAMERA; SEE AV* SERIES DWG
27 40 00.06	WALL MTD CAMERA; SEE AV* SERIES DWG
28 10 00.01	CARD READER; SEE TC* SERIES DWGS
28 10 00.02	REINSTALL EXG CARD READER
28 10 00.05	SECURITY SYS. KEYPAD
28 46 11.02	FIRE ALARM HORN AND STROBE; SEE FA* SERIES DWGS

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RENOVATIONS TO ALGER HALL
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Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
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Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 04/08/24

Revisions

Drawing Title
INTERIOR ELEVATIONS - CYBER RANGE CLASSROOM ROOM (RM 102)

A8.02

DOOR & FRAME SCHEDULE

LOCATION MARK	To Room: Name	STC RATING	DOOR SIZE WIDTH	HT	THK	DOOR PANEL TYPE	SPEC.	MATERIAL	FINISH	FRAME FRAME TYPE	SPEC.	MATERIAL	FINISH	DETAILS HEAD	JAMB	SILL	HDWR SET	NOTES
102A	AV CLOSET	N.A.	3'-0"	7'-0"	1 3/4"	DR-1A	08 14 16	WD-1	ST-1	HM-1	08 11 10	MTL-5	PNT-6	C2/A9.00	C3/A9.00	N.A.	2.0	CARD READER
102B	ELECT. CLOSET	N.A.	3'-0"	7'-0"	1 3/4"	DR-1A	08 14 16	WD-1	ST-1	HM-1	08 11 10	MTL-5	PNT-6	C2/A9.00	C3/A9.00	N.A.	1.0	
110D	DATA CLOSET	N.A.	3'-0"	7'-0"	1 3/4"	DR-1A	08 14 16	WD-1	ST-1	HM-1	08 11 10	MTL-5	PNT-6	C2/A9.00	C3/A9.00	N.A.	2.0	CARD READER

KEYNOTES

07 92 00.01	SEALANT
08 11 10.01	HM DR FRAME; DR & FRAME SCHEDULE
08 14 00.01	DR-1 (WD-1) - SEE DR & FRAME SCHEDULE & MAT. LIST
09 22 16.03	NON-LOAD-BEARING STL FRAMING SYS. FOR INT. PTN
09 90 00.07	PNT SHOP-PRIMED DR FRAME; SEE DR & FRAME SCHED.

DOOR HARDWARE SCHEDULE

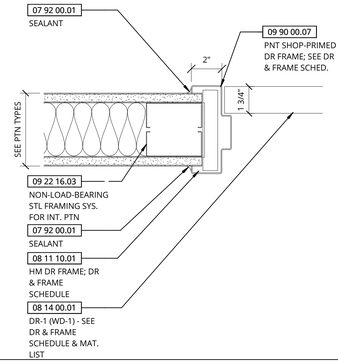
HARDWARE SET 1.0 - (SINGLE WITH STOREROOM LOCKSET X CLOSER)
Provide each SINGLE door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	MANUFACTURER
3	EA	HINGE	5BB1 SERIES AS SPECIFIED	IVES
1	EA	STOREROOM LOCK	L9092 EU T 06A RX RH 626	SCHLAGE
1	EA	SURFACE CLOSER	4011/4111EDA AS SPECIFIED	LCN CLOSERS
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	IVES
1	EA	STOP	WS407/FS436 AS SPECIFIED	IVES
3	EA	SILENCER	SR64	IVES
1	EA	DOOR SEAL	488S-BK 1 x 36" 2 x 84"	ZERO

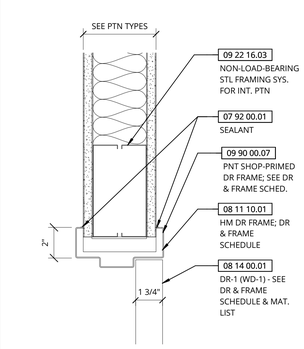
HARDWARE SET 2.0 - (SINGLE WITH STOREROOM LOCKSET X CLOSER AND CARD READER)
Provide each SINGLE door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	MANUFACTURER
3	EA	HINGE	5BB1 SERIES AS SPECIFIED	IVES
1	EA	STOREROOM LOCK	L9092 EU T 06A RX RH 626	SCHLAGE
1	EA	SURFACE CLOSER	4011/4111EDA AS SPECIFIED	LCN CLOSERS
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	IVES
1	EA	STOP	WS407/FS436 AS SPECIFIED	IVES
1	EA	SWITCH	679-05HM	SCHLAGE ELECTRONICS
1	EA	ELECTRIC POWER TRANSFER	EPT 10 SP28	VON DUPRIN
1	EA	POWER SUPPLY	PS902	SCHLAGE ELECTRONICS
3	EA	SILENCER	SR64	IVES
1	EA	DOOR SEAL	488S-BK 1 x 36" 2 x 84"	ZERO

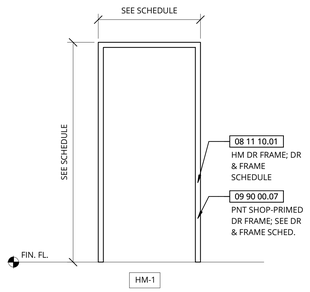
ACCESS BY KEY OR BY CARD READER. CARD READER WILL LOCK AND ALLOW ACCESS. REQUEST TO EXIT AND DOOR CONTACT CONNECTED TO BUILDING'S SECURITY SYSTEM.



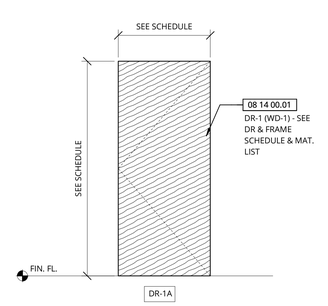
C3 / A9.00 **DR. FRAME - HM/ MTL. GWB - JAMB**
SCALE: 3" = 1'-0"



C2 / A9.00 **DR. FRAME - HM/ MTL. GWB - HEAD**
SCALE: 3" = 1'-0"



B4 / A9.00 **DOOR FRAMES**
SCALE: 1/2" = 1'-0"



B3 / A9.00 **DOOR TYPES**
SCALE: 1/2" = 1'-0"

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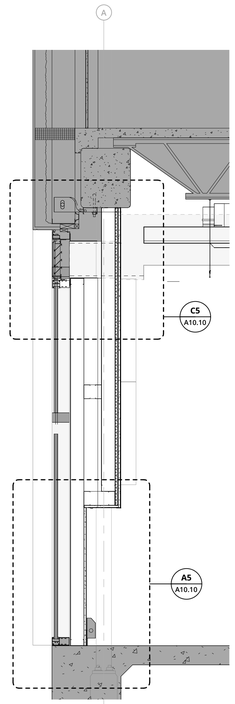
Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 06/25/24

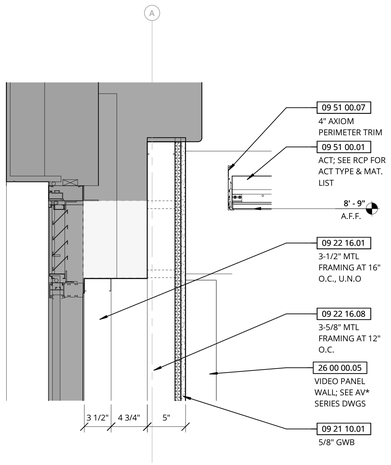
Revisions

Drawing Title
DOOR SCHEDULE, DOOR TYPES, AND DETAILS

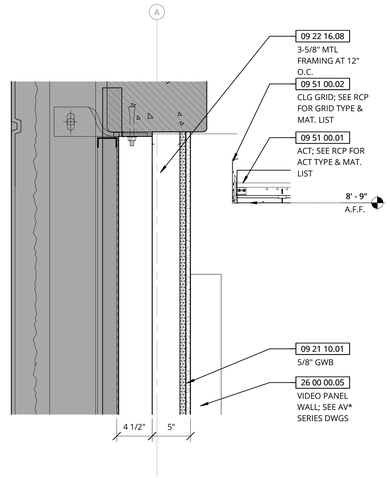
A9.00



C6 A10.10 **WALL SECTION THRU EXG WINDOW - TYPICAL**
SCALE: 3/4" = 1'-0"



C5 A10.10 **SECTION DETAIL THRU STOREFRONT AT CEILING DETAIL - TYPICAL**
SCALE: 1 1/2" = 1'-0"

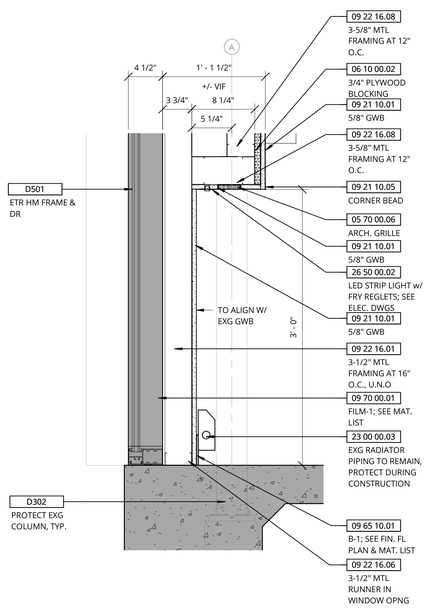


C3 A10.10 **SECTION DETAIL THRU EXG WALL AT CEILING - TYPICAL**
SCALE: 1 1/2" = 1'-0"

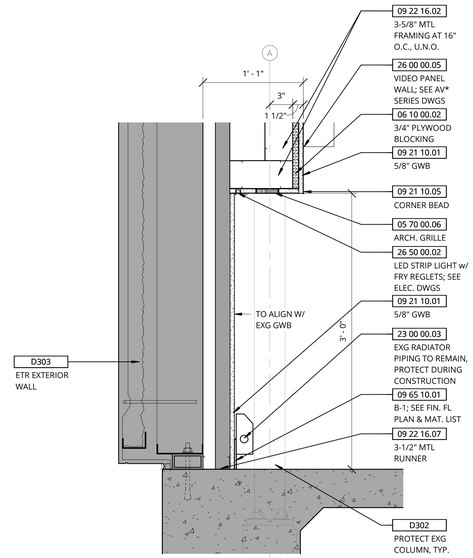
KEYNOTES

05 70 00.06	ARCH. GRILLE
06 10 00.02	3/4" PLYWOOD BLOCKING
09 21 10.01	5/8" GWB
09 21 10.05	CORNER BEAD
09 22 16.01	3-1/2" MTL FRAMING AT 16" O.C., U.N.O
09 22 16.02	3-5/8" MTL FRAMING AT 16" O.C., U.N.O.
09 22 16.06	3-1/2" MTL RUNNER IN WINDOW OPNG
09 22 16.07	3-1/2" MTL RUNNER
09 22 16.08	3-5/8" MTL FRAMING AT 12" O.C.
09 51 00.01	ACT; SEE RCP FOR ACT TYPE & MAT. LIST
09 51 00.02	CLG GRID; SEE RCP FOR GRID TYPE & MAT. LIST
09 51 00.07	4" AXIOM PERIMETER TRIM
09 65 10.01	B-1; SEE FIN. FL PLAN & MAT. LIST
09 70 00.01	FILM-1; SEE MAT. LIST
23 00 00.03	EXG RADIATOR PIPING TO REMAIN, PROTECT DURING CONSTRUCTION
26 00 00.05	VIDEO PANEL WALL; SEE AV* SERIES DWGS
26 50 00.02	LED STRIP LIGHT w/ FRY REGLETS; SEE ELEC. DWGS
D302	PROTECT EXG COLUMN, TYP.
D303	ETR EXTERIOR WALL
D501	ETR HM FRAME & DR

A6 A10.10 **WALL SECTION THRU EXG EXTERIOR WALL**
SCALE: 3/4" = 1'-0"



A5 A10.10 **SECTION DETAIL THRU STOREFRONT AT BASE - TYPICAL**
SCALE: 1 1/2" = 1'-0"



A3 A10.10 **SECTION DETAIL THRU EXG WALL AT BASE - TYPICAL**
SCALE: 1 1/2" = 1'-0"

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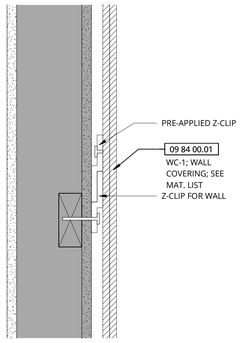
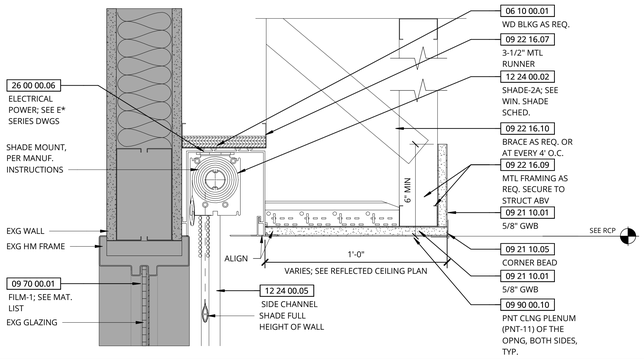
Drawing Title
SECTION DETAILS

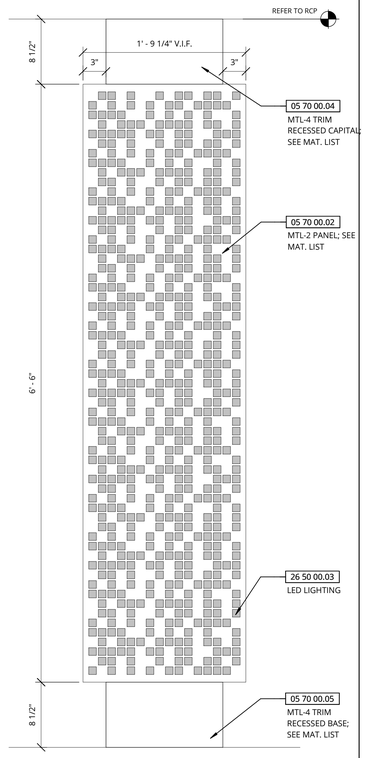
A10.10



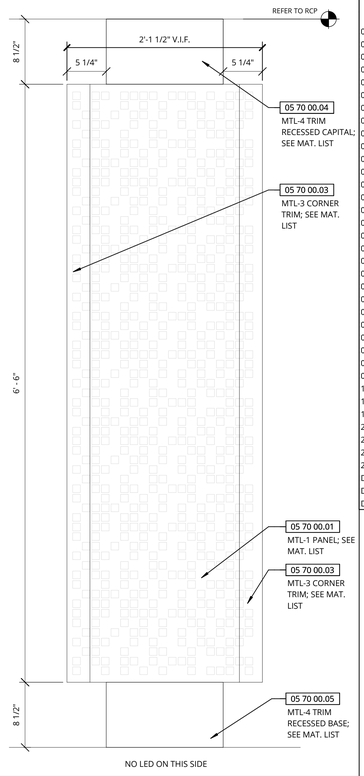
D6 / A10.50 **TYP. DTL AT WALL COVERING**
SCALE: 3" = 1'-0"



D5 / A10.50 **MOTORIZED ROLLER SHADES AT EXG WALL TYPICAL DETAIL**
SCALE: 3" = 1'-0"



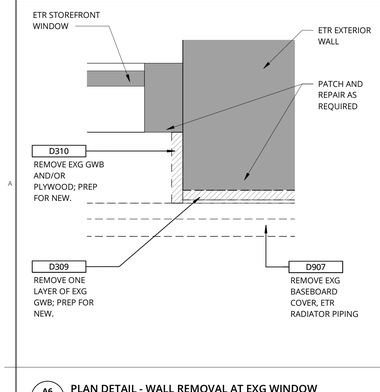
C3 / A10.50 **COLUMN MTL PANEL ENCLOSURE EL. - ENGRAVED**
SCALE: 1 1/2" = 1'-0"



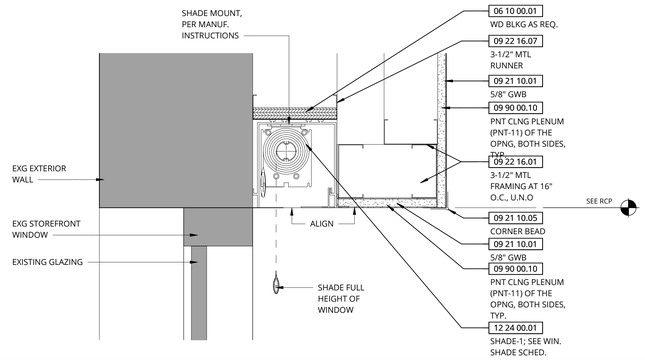
C2 / A10.50 **COLUMN MTL PANEL ENCLOSURE EL. - PERFORATED**
SCALE: 1 1/2" = 1'-0"

KEYNOTES

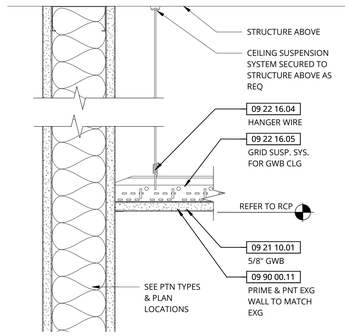
05 50 00.01	METAL STUDS TYPICAL AT 4 CORNERS
05 70 00.01	MTL-1 PANEL; SEE MAT. LIST
05 70 00.02	MTL-2 PANEL; SEE MAT. LIST
05 70 00.03	MTL-3 CORNER TRIM; SEE MAT. LIST
05 70 00.04	MTL-4 TRIM RECESSED CAPITAL; SEE MAT. LIST
05 70 00.05	MTL-4 TRIM RECESSED BASE; SEE MAT. LIST
05 70 00.07	1/16" ACRYLIC DIFFUSER; SEE MAT. LIST
06 10 00.01	WD BLKG AS REQ.
06 10 00.02	3/4" PLYWOOD BLOCKING
09 21 10.01	5/8" GWB
09 21 10.02	5/8" GWB APPLIED TO EXG STUDS
09 21 10.05	CORNER BEAD
09 21 10.06	ETR GWB, PATCH AS REQ.
09 22 16.01	3-1/2" MTL FRAMING AT 16" O.C., U.N.O
09 22 16.02	3-5/8" MTL FRAMING AT 16" O.C., U.N.O.
09 22 16.04	HANGER WIRE
09 22 16.05	GRID SUSP. SYS. FOR GWB CLG
09 22 16.07	3-1/2" MTL RUNNER
09 22 16.09	MTL FRAMING AS REQ. SECURE TO STRUCT ABV
09 22 16.10	BRACE AS REQ. OR AT EVERY 4' O.C.
09 51 00.01	ACT; SEE RCP FOR ACT TYPE & MAT. LIST
09 51 00.02	CLG GRID; SEE RCP FOR GRID TYPE & MAT. LIST
09 51 00.07	4" AXIOM PERIMETER TRIM
09 70 00.01	FILM-1; SEE MAT. LIST
09 84 00.01	WC-1; WALL COVERING; SEE MAT. LIST
09 90 00.01	PRIME & PNT; SEE FIN. PLANS & MAT. LIST
09 90 00.10	PNT CLNG PLENUM (PNT-11) OF THE OPNG, BOTH SIDES, TYP.
09 90 00.11	PRIME & PNT EXG WALL TO MATCH EXG
12 24 00.01	SHADE-1; SEE WIN. SHADE SCHED.
12 24 00.02	SHADE-2A; SEE WIN. SHADE SCHED.
12 24 00.05	SIDE CHANNEL
26 00 00.01	ELECTRICAL; SEE E* SERIES DWGS
26 00 00.06	ELECTRICAL POWER; SEE E* SERIES DWGS
26 50 00.03	LED LIGHTING
26 50 00.04	ADDLUX 10MM LED LIGHT SHEET
D309	REMOVE ONE LAYER OF EXG GWB; PREP FOR NEW.
D310	REMOVE EXG GWB AND/OR PLYWOOD; PREP FOR NEW.
D907	REMOVE EXG BASEBOARD COVER, ETR RADIATOR PIPING



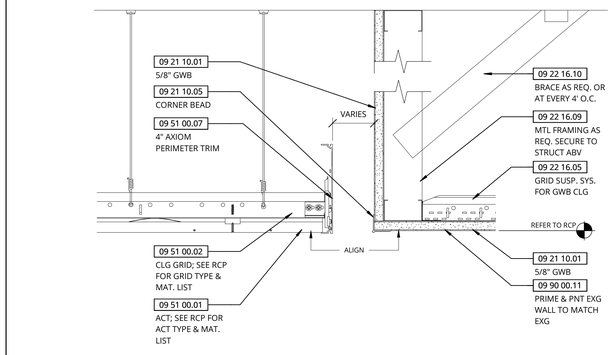
C6 / A10.50 **TYP. SIGNAGE LETTERING DTL**
SCALE: 1 1/2" = 1'-0"



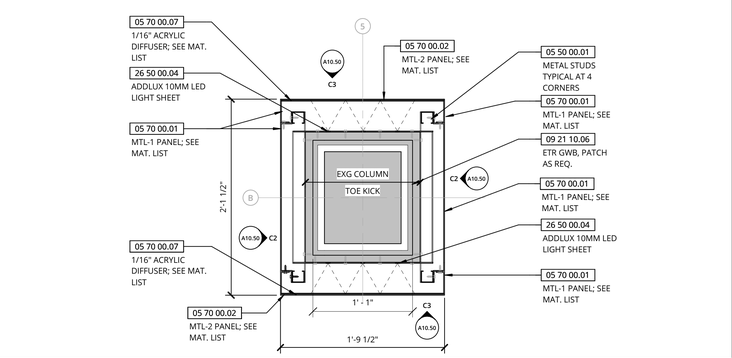
C5 / A10.50 **MANUAL SHADE AT EXG WINDOWS TYPICAL DETAIL**
SCALE: 3" = 1'-0"



B6 / A10.50 **TYP CLG DTL AT GYP CEILING & WALL**
SCALE: 3" = 1'-0"

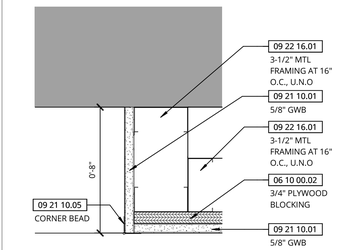


B5 / A10.50 **TYP CLG DTL AT GYP TO ACT**
SCALE: 3" = 1'-0"

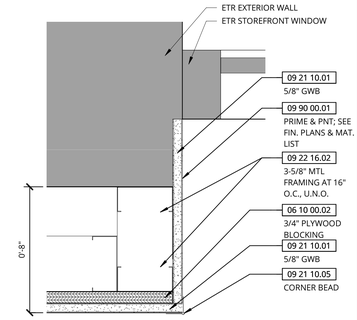


B3 / A10.50 **PLAN DETAIL - COLUMN MTL PANEL ENCLOSURE**
SCALE: 1 1/2" = 1'-0"

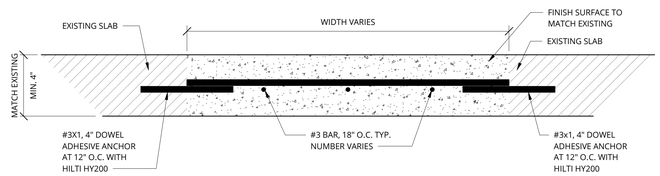
A6 / A10.50 **PLAN DETAIL - WALL REMOVAL AT EXG WINDOW**
SCALE: 3" = 1'-0"



A5 / A10.50 **PLAN DETAIL - FURRED OUT WALL AT EXG WALL**
SCALE: 3" = 1'-0"



A4 / A10.50 **PLAN DETAIL - FURRED OUT WALL AT EXG WINDOW**
SCALE: 3" = 1'-0"



A3 / A10.50 **EXISTING CONC SLAB REPAIR DETAIL**
SCALE: 1 1/2" = 1'-0"

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

Drawing Title
INTERIOR DETAILS

A10.50

PLAN LEGEND - PROPOSED

NEW WORK GENERAL NOTES
ALL MATERIALS NOTED & INDICATED ARE NEW UNLESS NOTED "EXISTING" OR "EXG" (TYPICAL). SEE SPECIFICATION & DWG SHEET G0.02 FOR OTHER GENERAL NOTES & REQUIREMENTS APPLICABLE TO THE WORK.

1. SEE FLOOR FINISH PLANS FOR FLOOR AND WALL FINISH ANNOTATION & DETAILS. SEE CEILING PLANS FOR CEILING FINISH

NEW WORK GENERAL SCOPE
SEE SHEET G0.01 FOR NOTES APPLICABLE TO ALL PLANS, "A" SERIES DRAWINGS. SPECIFIC SCOPE ITEMS ARE ALSO NOTED ON THE PLANS.

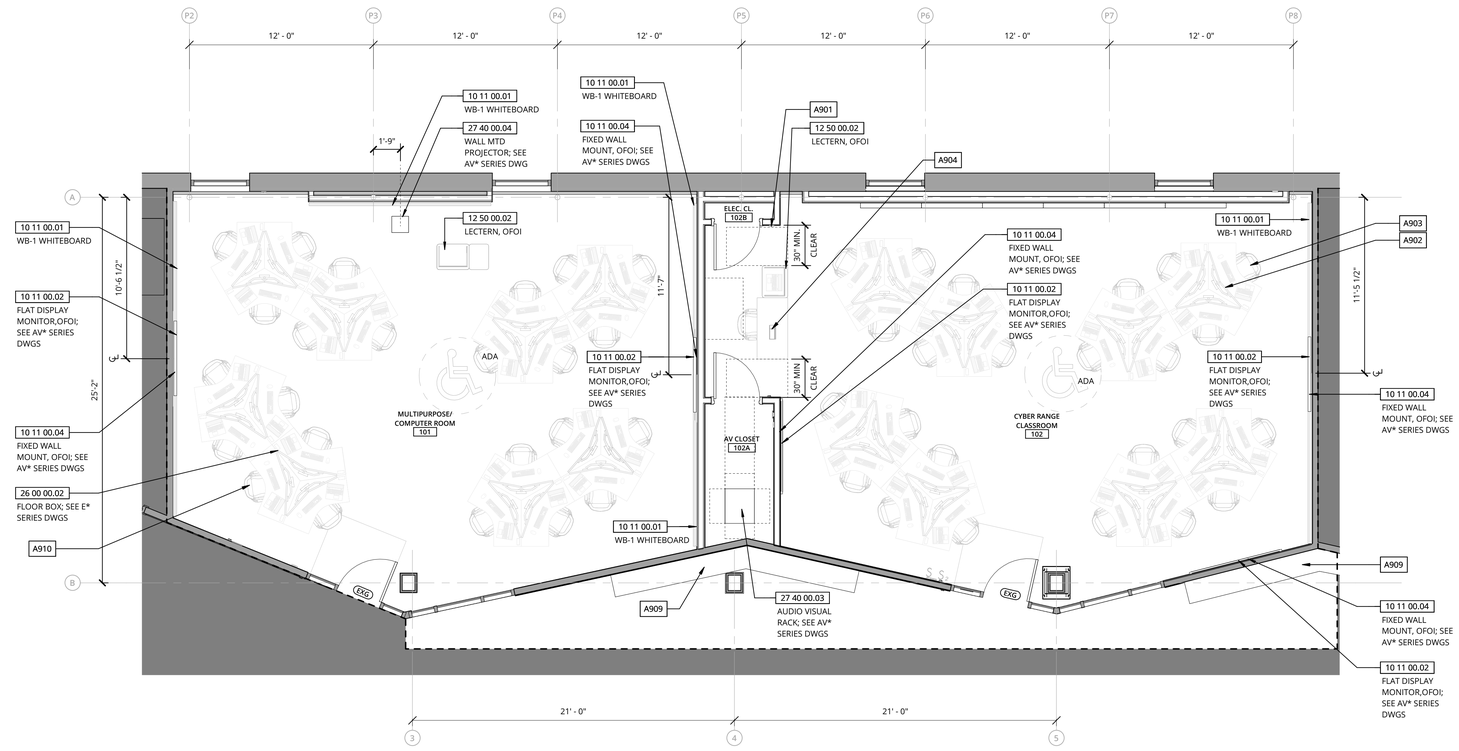
1. SEE FIRE PROTECTION, MECHANICAL, ELECTRICAL, TELECOMMUNICATIONS, AND AUDIO VISUAL DRAWINGS FOR SYSTEMS SCOPE.

DRAWING LEGEND:
SEE DWG G0.01 FOR ADDITIONAL SYMBOLS

	EXG PARTITION TO REMAIN. SEE G2.00 FOR PTN TYPE DEFINITIONS.
	NEW PARTITION; SEE G2.00 FOR PTN TYPE DEFINITIONS.
	BOUNDARY OF WORK AREA
	AREA N.I.C.
	EXG DOOR & FRAME TO REMAIN, U.N.O.
	DOOR & FRAME, U.N.O.
XXX	ROOM TAG
AXXX	KEYNOTE
SDA	WALL/ PARTITION TAG
FB	FLOOR BOX (SEE E* SERIES DWGS)

KEYNOTES

10 11 00.01	WB-1 WHITEBOARD
10 11 00.02	FLAT DISPLAY MONITOR,OFOI; SEE AV* SERIES DWGS
10 11 00.04	FIXED WALL MOUNT, OFOI; SEE AV* SERIES DWGS
12 50 00.02	LECTERN, OFOI
26 00 00.02	FLOOR BOX; SEE E* SERIES DWGS
27 40 00.03	AUDIO VISUAL RACK; SEE AV* SERIES DWGS
27 40 00.04	WALL MTD PROJECTOR; SEE AV* SERIES DWG
A901	TELEPHONE (OFOI)
A902	MONITOR (OFOI)
A903	TABLE, CHAIRS, AND/OR FURNITURE (OFOI)
A904	EQUIPMENT (OFOI)
A909	REINSTALL BENCHES
A910	REINSTALL EXG CHAIRS, TYP.



N

A6 / A1.00 ENLARGED FURNITURE, FURNISHINGS, AND EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

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Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024
DRAWING DATE: 06/12/24

Revisions

Drawing Title
FURNITURE, FURNISHINGS, AND EQUIPMENT

AI1.00

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AH	AIR HANDLER
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROL
AWT	AVERAGE WATER TEMPERATURE
B	BOILER
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
BMS	BUILDING MANAGEMENT SYSTEM
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CNV	CONVECTOR
COP	COEFFICIENT OF PERFORMANCE
CRD	CEILING RADIATION DAMPER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
dB	DECIBELS
DAH	DUCTLESS AIR HANDLER
DHP	DUCTLESS HEAT PUMP
DN	DOWN
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
EBB	ELECTRIC BASEBOARD
E.C.	ELECTRICAL CONTRACTOR (DIV 26)
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FN	FURNACE
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
G.C.	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTANCE
HP	HORSEPOWER
HSPF	HEATING SEASON PERFORMANCE FACTOR
IN	INCHES
IPLV	INTEGRATED PART LOAD VALUE
IN WG	INCHES WATER GAUGE
KW	KILOWATTS
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BTU / HOUR
M.C.	MECHANICAL CONTRACTOR (DIV 23)
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE (DRY BULB)
ODB	OUTSIDE DRY BULB TEMPERATURE
OWB	OUTSIDE WET BULB TEMPERATURE
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RE	REMOVE EXISTING
RF	RETURN FAN
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
TF	TRANSFER FAN
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UOI	UNLESS OTHERWISE INDICATED
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WPD	WATER PRESSURE DROP

CALL OUT AND TAG LEGEND

EQUIPMENT (REQUIRING POWER)	EQUIPMENT DESIGNATION NUMBER
EQUIPMENT (NON-POWERED)	EQUIPMENT DESIGNATION NUMBER
REGISTERS, GRILLES & DIFFUSERS	TYPICAL FOR # DESIGNATION BALANCE TO CFM INDICATED
SECTION CALL-OUT	DESIGNATION DRAWING REFERENCE
VAV TAG	EQUIPMENT DESIGNATION MAX/MIN OCCUPIED AIRFLOW VALUES (CFM) UNOCCUPIED AIRFLOW VALUES (CFM)
	CONNECT TO EXISTING
	LIMIT OF DEMOLITION

EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
	VRF/HEAT PUMP OUTDOOR UNIT
	HEAT PUMP FAN COIL W/ RETURN FILTER HOUSING
	AIR TERMINAL W/ REHEAT COIL AND INTEGRAL SOUND ATTENUATOR
	FAN POWERED AIR TERMINAL W/ REHEAT COIL, SUPPLY ATTENUATOR, AND RETURN INLET ATTENUATOR
	UPBLAST ROOF FAN (ROOF PLAN AND SPACE BELOW)

FLOOR PLAN CONTROL DEVICE LEGEND

C	CO2 SENSOR
H	RELATIVE HUMIDITY SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR
	CONTROL CONNECTION

AIR SYSTEM ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT
AS	AIR SEPARATOR
BV	BALL VALVE
BYP	BYPASS
CH	CHILLER
CHW	CHILLED WATER
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
COND	CONDENSATE
CP	CONDENSATE PUMP
CR(XX)	CONDENSATE RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CT	COOLING TOWER
DOV	DRAIN OFF VALVE
ET	EXPANSION TANK
GWS	GLYCOL WATER SUPPLY
GWR	GLYCOL WATER RETURN
HX	HEAT EXCHANGER
HW	HOT WATER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
MAV	MANUAL AIR VENT
NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
P	PUMP
PHWS	PERIMETER HOT WATER SUPPLY
PHWR	PERIMETER HOT WATER RETURN
EA	EXHAUST AIR
HEA	HAZARDOUS EXHAUST AIR
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCTWORK LEGEND

DOUBLE LINE SYMBOL	SINGLE LINE SYMBOL	DESCRIPTION
AxB	AxB	NEW DUCT LINE TYPE AND CLEAR INSIDE RECTANGULAR DUCTWORK DIMENSION. A = DIMENSION VISIBLE IN PLAN VIEW. B = DIMENSION VISIBLE IN SECTION VIEW.
R		STANDARD ELBOW - RADIUS ELBOW. PROVIDE FULL LENGTH SPLITTER VANES WHERE R < 1X DUCT WIDTH (W)
45° 45°		STANDARD BRANCH TAKEOFF (W/ BRANCH VOLUME DAMPER IN LOW PRESSURE SYSTEMS) RING DUCT / HEADERED SYSTEM TAKEOFF (W/ BRANCH VOLUME DAMPER IN LOW PRESSURE SYSTEMS)
R R		RECTANGULAR WYE FITTING. PROVIDE FULL LENGTH SPLITTER VANES WHERE R < 1X DUCT WIDTH. PROVIDE MITERED ELBOW TEE WITH TURNING VANES WHERE SPACE DOES NOT ALLOW. RING DUCT CONNECTIONS SHALL BE WYE FITTING W/ RADIUS ELBOWS. SYMMETRICAL BRANCH TAKEOFF W/ CAPPED MAIN NOT ALLOWED.
R		MITERED ELBOW W/ TURNING VANES
		STANDARD DIFFUSER TAKEOFF (W/ VOLUME DAMPER AT TAKEOFF FITTING)
		DUCT OR WALL MOUNTED DIFFUSER TAKEOFF (W/ VOLUME DAMPER AT TAKEOFF FITTING)
		BOTTOM DIFFUSER BRANCH TAKEOFF (W/ VOLUME DAMPER AT TAKEOFF FITTING)
30° 18x6 12x6	18x6 12x6	MAX 30 DEGREE ANGLE FOR SYMMETRIC AND ASYMMETRIC TRANSITION FITTINGS
18x12 12Ø	18x12 12Ø	RECTANGULAR TO ROUND OR OVAL TRANSITION
		ACOUSTICALLY LINED TRANSFER DUCT WITH TWO MITERED ELBOWS ABOVE CEILING. Z-DUCT IS ACCEPTABLE ALTERNATE
		DUCTWORK WITH MINIMUM 1" ACOUSTICAL LINER
		HIDDEN DUCTWORK
		DUCTWORK & EQUIPMENT TO BE DEMOLISHED
		ALTERNATIVE DUCTWORK & EQUIP TO BE DEMOLISHED
		SUPPLY DUCT DOWN
		RETURN/EXHAUST DUCT DOWN
		SUPPLY DUCT UP
		RETURN/EXHAUST DUCT UP

DUCTWORK LEGEND (CT'D)

	RECTANGULAR RETURN OR EXHAUST GRILLE
	RECTANGULAR 4-WAY SUPPLY DIFFUSER
	RECTANGULAR 3-WAY SUPPLY DIFFUSER
	RECTANGULAR 2-WAY SUPPLY DIFFUSER
	RECTANGULAR 1-WAY SUPPLY DIFFUSER
	LINEAR DIFFUSER W/ 1" ACOUSTICALLY LINED PLENUM
	SIDEWALL GRILLE
VD	MANUAL VOLUME DAMPER
FSD	COMBINATION FIRE SMOKE DAMPER W/ ACCESS DOOR
ACD	AUTOMATIC CONTROL DAMPER W/ ACCESS DOOR
AFS	AIR FLOW TRAVERSE STATION W/ ACCESS DOOR
	AIR ENTERING OPENING
	AIR LEAVING OPENING
	UNDERCUT DOOR

PIPING PLAN GENERAL NOTES

1. UOI IN FLOOR PLANS, SCHEDULES OR DETAILS; BRANCH PIPES TO TERMINAL UNITS SHALL BE AS FOLLOWS:

GPM	BRANCH PIPES	GPM	BRANCH PIPES
0.0 TO 3.0	3/4"	20.1 TO 40.0	2"
3.1 TO 6.5	1"	40.1 TO 65.0	2-1/2"
6.6 TO 12.0	1-1/4"	65.1 TO 115.0	3"
12.1 TO 20.0	1-1/2"	115.1 TO 240.0	4"

2. GRAVITY DRAIN COOLING COIL CONDENSATE PIPING SHALL BE PITCHED DOWNWARD TO DRAIN AT MINIMUM 1/4" PER 1'-0". CONDENSATE SHALL BE AT MINIMUM FULL SIZE OF CONDENSATE EQUIPMENT CONNECTION. PROVIDE P-TRAP W/ CLEANOUT AT ALL EQUIPMENT CONNECTIONS. COOLING COIL CONDENSATE PIPING WITHIN THE BUILDING SHALL TERMINATE ABOVE AN INDIRECT WASTE RECEIVER, WITH A MINIMUM 2" AIR GAP ABOVE THE FLOOD RIM OF THE RECEIVER. JANITORS SINKS AND LAUNDRY TUBS MAY BE USED AS RECEIVERS. WHERE THERE ARE NO JANITORS SINKS OR LAUNDRY TUBS WITHIN THE VICINITY FOR PROPER GRAVITY DRAINAGE, PROVIDE TRAPPED, VENTED, AND PRIMED INDIRECT WASTE RECEIVERS CONNECTED TO THE BUILDING PLUMBING SYSTEM AS REQUIRED.
3. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
4. PROVIDE AT LEAST THREE-ELBOW SWING FOR PIPE TAKE-OFFS TO TERMINAL EQUIPMENT AND RISERS.
5. BULLHEAD TEES NOT ALLOWED. PROVIDE OFFSET TAKEOFFS WITH MINIMUM 3 PIPE DIAMETERS BETWEEN.
6. PROVIDE STAINLESS STEEL BRAIDED FLEX CONNECTIONS TO ALL MECHANICAL TERMINAL EQUIPMENT WITH ROTATING OR MOTORIZED COMPONENTS. PROVIDE DOUBLE SPHERE CONNECTOR W/ CONTROL RODS AT ALL PUMP CONNECTIONS.
7. PROVIDE ISOLATION VALVE EXTENSIONS TO ACCOMMODATE SPECIFIED PIPING INSULATION THICKNESS.
8. ALL PIPING TESTS SHALL BE PERFORMED AND APPROVED SUBMITTAL RESPONSE RECEIVED PRIOR TO INSULATING.
9. ISOLATION VALVES IN PIPING SYSTEMS ARE NOT SHOWN ON PLANS (FOR CLARITY) BUT ARE REQUIRED AT ALL PIPE BRANCHES AND CONNECTIONS TO EQUIPMENT. REFER TO DETAIL SHEETS AND FLOW DIAGRAMS.
10. PROVIDE HANGERS, CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
11. CONFIRM HYDRONIC SYSTEM CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING REPORTS OF SYSTEMS TO BE EXTENDED. REPORTS SHALL INCLUDE PIPE SIZE, FLOW RATE, SUPPLY PRESSURE AND RETURN PRESSURE. PROVIDE HYDRONIC SYSTEM FLOW (GPM) AND PIPE SYSTEM PRESSURE (PSIG) MEASUREMENTS IN PIPING SYSTEMS TO DOCUMENT PERFORMANCE AT ALL SPACES SERVED BY SYSTEM, BOTH WITHIN PROJECT WORK SCOPE AREA AND AT MAJOR BRANCHES BEYOND PROJECT WORK SCOPE AREA.

HVAC DEMOLITION GENERAL NOTES

1. REFER TO ALL DRAWINGS FOR GENERAL DESCRIPTION OF AREAS REQUIRING DEMOLITION.
2. DEMOLITION SHALL BE COORDINATED WITH OWNER, ARCHITECT, GENERAL CONTRACTOR, CONSTRUCTION MANAGER AND ENGINEER.
3. REFER TO DRAWING AND GENERAL CONTRACTOR INSTRUCTIONS FOR ALL EXISTING EQUIPMENT AND MATERIALS THAT SHALL REMAIN THE PROPERTY OF THE OWNER.
4. ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
5. DEMOLITION SHALL BE COORDINATED WITH OWNER, ARCHITECT, GENERAL CONTRACTOR, CONSTRUCTION MANAGER AND ENGINEER.
6. PROVIDE MECHANICAL DEMOLITION TERMINATION: CUT, VALVE AND CAP. DROP MECHANICAL DISTRIBUTION TO FLOOR. REMOVAL OF SYSTEM EQUIPMENT SHALL BE BY THE HVAC CONTRACTOR.
7. PROVIDE 2 WEEKS NOTICE TO OWNER OPERATIONS FOR SHUT DOWN OF ANY SERVICES AND/OR SYSTEMS.
8. PERSONNEL PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
9. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED.
10. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND REFLECT OVERALL SYSTEM REMOVAL. NOT EVERY ITEM OR COMPONENT OF A SYSTEM IS SHOWN.
11. WHERE REMOVAL OF EQUIPMENT IS INDICATED, SCOPE OF WORK SHALL INCLUDE REMOVAL OF CONTROLS WIRING, CONDUIT AND DEVICES, HANGERS, SUPPORTS, AND ALL OTHER ASSOCIATED APPURTENANCES.
12. THIS CONTRACTOR SHALL PROVIDE SHUT DOWN OF SERVICES (FANS, PUMPS, AHU's, ETC.) AND TRACING OF ALL RISERS WITHIN BASE BID.
13. PROVIDE TEMPORARY ADHESIVE FILM CAP OVER ALL OPEN ENDED DUCTWORK AND PLUGS ON PIPING DURING CONSTRUCTION TO PREVENT DUST AND DEBRIS FROM ENTERING SYSTEM.

GENERAL NOTES

1. HVAC GENERAL NOTES, LEGENDS, SYMBOLS AND DETAILS ARE APPLICABLE TO ALL "M" SERIES DRAWINGS.
2. PROVIDE LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK OF THIS SECTION. COMPLY WITH ALL APPLICABLE FEDERAL AND STATE LAWS, AND ALL LOCAL CODES, BY-LAWS AND ORDINANCES. REQUEST INSPECTIONS FROM AUTHORITIES HAVING JURISDICTION. OBTAIN ALL PERMITS AND PAY FOR ALL FEES AND INSPECTION CERTIFICATES AS APPLICABLE AND/OR REQUIRED. ALL PERMITS AND CERTIFICATES SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE WORK. ALL WORK, EQUIPMENT AND MATERIALS SHALL CONFORM TO THE BUILDING CONSTRUCTION RULES AND REGULATIONS.
3. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, AND APPROXIMATE LOCATIONS AND GENERAL ARRANGEMENT. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
4. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND EXISTING CONDITIONS FOR RENOVATION WORK. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED IN PROJECT SCOPE. DUCTWORK AND PIPING OFFSETS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
5. REFER TO HVAC LEGENDS, DETAILS, SCHEDULES, FLOW DIAGRAMS, CONTROLS, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. SUBMIT ALL DEVICES AND EQUIPMENT FOR REVIEW AND ARCHITECT/ENGINEER'S APPROVAL PRIOR TO PURCHASE.
7. ABATEMENT WORK: SPECIFIC REFERENCE IS MADE TO DIVISION 2 - ASBESTOS ABATEMENT. MECHANICAL SCOPE OF WORK DOES NOT INCLUDE ABATEMENT OF ASBESTOS-CONTAINING MATERIALS (ACM) AS SUCH WORK MUST BE COMPLETED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR. IF DURING THE COURSE OF DEMOLITION AND/OR REMOVAL WORK THAT IS COVERED UNDER THE SCOPE OF PLUMBING DEMOLITION WORK ANY MATERIALS ARE FOUND THAT MAY BE CONSIDERED ACM'S, IMMEDIATELY STOP WORK IN THAT LOCATION AND INFORM THE G.C. SO THAT PROPER DEMOLITION SERVICES CAN BE OBTAINED.
8. CLEANING: UPON COMPLETION ALL SHEET METAL WORK SPECIFIED UNDER THIS CONTRACT IS TO BE CLEANED. ALL EQUIPMENT IS TO BE CLEANED, ALL TRIM INSTALLED, ALL PROTECTIVE OIL, TAPE OR OTHER MATERIALS USED TO PROTECT WORK ARE TO BE REMOVED. ALL DUCTS, FANS, AND EQUIPMENT SHALL BE THOROUGHLY CLEANED INSIDE AND OUTSIDE AND BLOWN OUT TO PREVENT AND DEBRIS FROM DAMAGING FAN SHIELDS OR DEBRIS HANGING THROUGH REGISTERS OR DIFFUSERS WHEN SYSTEMS ARE PLACED IN OPERATION. ALL TEMPORARY CONNECTIONS REQUIRED FOR BLOWING OUT THE SYSTEMS, CHEESECLOTH FOR ALL DUCT OPENINGS, AND ANY OTHER EQUIPMENT OR LABOR FOR CLEANING, SHALL BE PROVIDED BY THE HVAC CONTRACTOR. ANY DAMAGE TO CEILINGS BY THE HVAC CONTRACTOR SHALL BE RECTIFIED BY THEM AT NO ADDITIONAL CHARGE TO THE OWNER.
9. ALL WORK COMPLETED AS PART OF THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER UNLESS SPECIFIED FOR A LONGER DURATION.
10. REFER TO THE CONTROL DIAGRAMS, SEQUENCES & SPECIFICATIONS FOR ALL ASSOCIATED AUTOMATIC TEMPERATURE CONTROLS WORK TO BE INCLUDED AS PART OF THIS CONTRACT. FOR NEW HVAC EQUIPMENT AND SYSTEM CONTROLLERS, COORDINATE A SUITABLE LOCATION WITH THE OWNER'S PROJECT MANAGER WITHIN THE BUILDING. COORDINATE NETWORK INTERFACE OF NEW CONTROLLERS WITH THE EXISTING FACILITIES ENERGY MANAGEMENT SYSTEM INFRASTRUCTURE. WHERE CENTRAL BUILDING AUTOMATION SYSTEM IS NOT PROVIDED, REMOTE CONTROL PANELS SHALL BE PROVIDED FOR EACH INSTANCE OF ROOF MOUNTED PACKAGED EQUIPMENT.
11. ALL ROOF AND GRADE MOUNTED EQUIPMENT LOCATED EXTERIOR TO THE BUILDING SHALL BE INSTALLED, ANCHORED, AND SUPPORTED IN ACCORDANCE WITH BUILDING DESIGN WIND SPEED CONDITIONS. EQUIPMENT SUPPORT DESIGN SHALL BE DELEGATED DESIGN BY STRUCTURAL ENGINEER UNDER THIS CONTRACT. SUBMIT DESIGN CALCULATIONS FOR APPROVAL.
12. ACCESS PANELS SHALL BE PROVIDED IN ALL HARD SUSPENDED CEILINGS AND WALLS FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. THAT REQUIRE MAINTENANCE AND INSPECTION. COORDINATE LOCATION WITH FINAL EQUIPMENT LAYOUT.
13. ALL PIPING, DUCTS, AND CONTROLS IN FINISHED ROOMS SHALL BE INSTALLED TIGHT TO STRUCTURE ABOVE HARD SUSPENDED CEILING OR ABOVE ACOUSTICAL CEILING. ANY COMPONENTS PASSING VERTICALLY THROUGH A FINISHED SPACE SHALL BE CONCEALED IN A FURRED CHASE. EQUIPMENT ABOVE CEILING REQUIRING MAINTENANCE ACCESS SHALL NOT BE LOCATED GREATER THAN 4'-0" ABOVE THE CEILING PLANE.
14. SLEEVES SHALL BE PROVIDED FOR ALL DUCT AND PIPING PENETRATIONS THROUGH WALLS, FLOORS, CEILINGS AND ROOF ASSEMBLIES.
15. ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE-STOPPED AROUND PENETRATION. AIR GAP AROUND PENETRATIONS THROUGH NON-RATED ASSEMBLIES SHALL BE FILLED WITH MINERAL WOOL CAULKED WITH NON-HARDENING SEALANT.
16. ALL EQUIPMENT WITH ROTATING OR MOTORIZED COMPONENTS (FANS, PUMPS, COMPRESSORS, ETC.) SHALL BE PROVIDED WITH SPRING VIBRATION MOUNTS OR HANGERS.

DUCTWORK PLAN GENERAL NOTES

1. UOI, DUCTWORK SHALL BE MOUNTED AS HIGH AS POSSIBLE, EXCEPT THAT DUCTWORK HEIGHT SHALL BE ADJUSTED AS NECESSARY FOR THE PROPER INSTALLATION OF EQUIPMENT, PIPING, AND CONDUIT.
2. UOI, FLEXIBLE DUCTS ARE ALLOWED ONLY AT CONNECTIONS TO DIFFUSERS AND GRILLES. FLEXIBLE DUCTS SHALL BE MAXIMUM 5'-0" LONG, SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS ONLY, AND SHALL BE SUPPORTED FROM STRUCTURE WITH DURABLE ELBOW SUPPORT TO SATISFY 1-1/2 RADIUS ELBOW.
3. WHERE BRANCH DUCT SIZES TO DIFFUSERS AND GRILLES ARE NOT INDICATED, SEE THE BRANCH DUCT COLUMN OF THE DIFFUSER AND GRILLE SCHEDULE.
4. WHERE VOLUME DAMPERS ARE INACCESSIBLE, PROVIDE WORM GEAR DRIVE AND CABLE ASSEMBLIES SIMILAR TO METROPOLITAN AIR TECHNOLOGIES ROTOTWIST MODEL RT-200/250 SERIES WITH MODEL RT-CCR CEILING CAP. TO THE GREATEST EXTENT POSSIBLE, GROUP CEILING CAPS IN SPACES SUCH AS STORAGE ROOMS, CLOSETS, JANITORS ROOMS, MECHANICAL/ELECTRICAL ROOMS, ETC.
5. DUCTWORK VISIBLE THROUGH THE FACE OF DIFFUSERS, GRILLES, AND LOUVERS SHALL BE PAINTED MATTE BLACK.
6. ALL RETURN AIR OPENINGS ABOVE CEILING SHALL BE PROVIDED WITH A 1/2" X 1/2" MESH ALUMINUM SCREEN (80% FREE AREA MINIMUM).
7. EXPOSED ROUND DUCTWORK SHALL BE SPIRAL LOCKSEAM TYPE.
8. UOI, ACOUSTICAL LINING SHALL BE 1" THICK.
9. DUCTWORK DIMENSIONS INDICATED ARE NET INSIDE CLEAR DIMENSIONS. INCREASE OUTSIDE DIMENSIONS TO ACCOMMODATE ACOUSTICAL LINING WHERE REQUIRED.
10. PROVIDE DUCTWORK TRANSITIONS AS NECESSARY TO MAKE CONNECTION TO PROVIDED EQUIPMENT.
11. DUCT SIZE TRANSITIONS SHALL BE 30 DEGREE MAXIMUM ANGLE.
12. PROVIDE FLEX CONNECTIONS TO ALL MECHANICAL EQUIPMENT WITH ROTATING OR MOTORIZED COMPONENTS (FANS, COMPRESSORS, ETC).
13. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL PARTITION/WALL DETAILS AND PROVISION OF A CLEAR RETURN AND/OR EXHAUST AIR PATHWAY IN ACCORDANCE WITH THE INDUSTRY SOUND LEVEL FOR THE SPACE TYPE, FROM EVERY SPACE TO THE MAIN RETURN DUCTWORK.
14. MANUAL VOLUME DAMPERS ARE NOT SHOWN ON PLAN FOR DRAWING CLARITY. PROVIDE MANUAL VOLUME DAMPERS AT ALL LOW PRESSURE SUPPLY, RETURN, AND EXHAUST BRANCHES AND ALSO AT ALL REGISTER, GRILLE, AND DIFFUSER TAKEOFF. VOLUME DAMPERS SHALL BE INSTALLED IN BRANCH TAKEOFF.
15. ELBOWS IN DUCT SYSTEMS SHALL BE FULL RADIUS (CENTERLINE RADIUS = 1.5 DUCT WIDTH) WHERE SPACE PERMITS. WHERE LIMITED CLEARANCE OCCURS, PROVIDE SHORT RADIUS ELBOW WITH FULL LENGTH SPLITTER VANES PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS, CHART 4-1. MITERED (SQUARE) ELBOWS WITH TURNING VANES SHALL ONLY BE USED WHEN SPACE DOES NOT PERMIT FOR SHORT RADIUS ELBOWS.
16. PROVIDE EQUALIZING GRID AT CLOSE COUPLED SUPPLY TAKEOFFS (LESS THAN 6" BETWEEN FACE OF DIFFUSER/GRILLE AND DUCT.
17. ALL DUCT TESTS SHALL BE PERFORMED AND APPROVED SUBMITTAL RESPONSE RECEIVED PRIOR TO INSULATING.
18. WHERE RETURN AIR SYSTEM IS BASED ON CEILING PLENUM RETURN; ALL ABOVE CEILING CONSTRUCTION INCLUDING DUCTWORK, PIPING INSULATION AND WIRING SHALL BE PLENUM RATED PER IMC-2018 - SECTION 602.2.1. CONTRACTOR TO COORDINATE WITH OTHER DIVISIONS.
19. CONFIRM SUPPLY AND EXHAUST SYSTEM AIRFLOW CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING REPORTS OF SYSTEMS TO BE EXTENDED. REPORTS SHALL INCLUDE COMPLETE FAN INFORMATION, CFM, ESP, TSP, RPM, VOLTS, AMPS AND VFD SPEEDS. PROVIDE AIRFLOW IN CFM AND DUCT STATIC PRESSURE MEASUREMENTS IN DUCT SYSTEMS TO DOCUMENT PERFORMANCE AT ALL SPACES SERVED BY SYSTEM, BOTH WITHIN PROJECT WORK SCOPE AREA AND AT MAJOR BRANCHES BEYOND PROJECT WORK SCOPE AREA.
20. AT THE COMPLETION OF THIS PROJECT, THE ENTIRE AFFECTED HVAC SYSTEM SHALL BE TESTED & BALANCED (T&B). THE HVAC T&B SUBCONTRACTOR SHALL UTILIZE AIRFLOWS SHOWN ON THESE PLANS TO ACCOMPLISH THIS. AIRFLOW AT MAJOR DUCT BRANCHES BEYOND SCOPE OF WORK SHALL BE REBALANCED TO ORIGINAL AIRFLOW AS DOCUMENTED IN PRE-DEMO REPORT. AIRFLOW T&B SHALL BE PERFORMED IN ACCORDANCE WITH AABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION OR ASHRAE SYSTEMS HANDBOOK.

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
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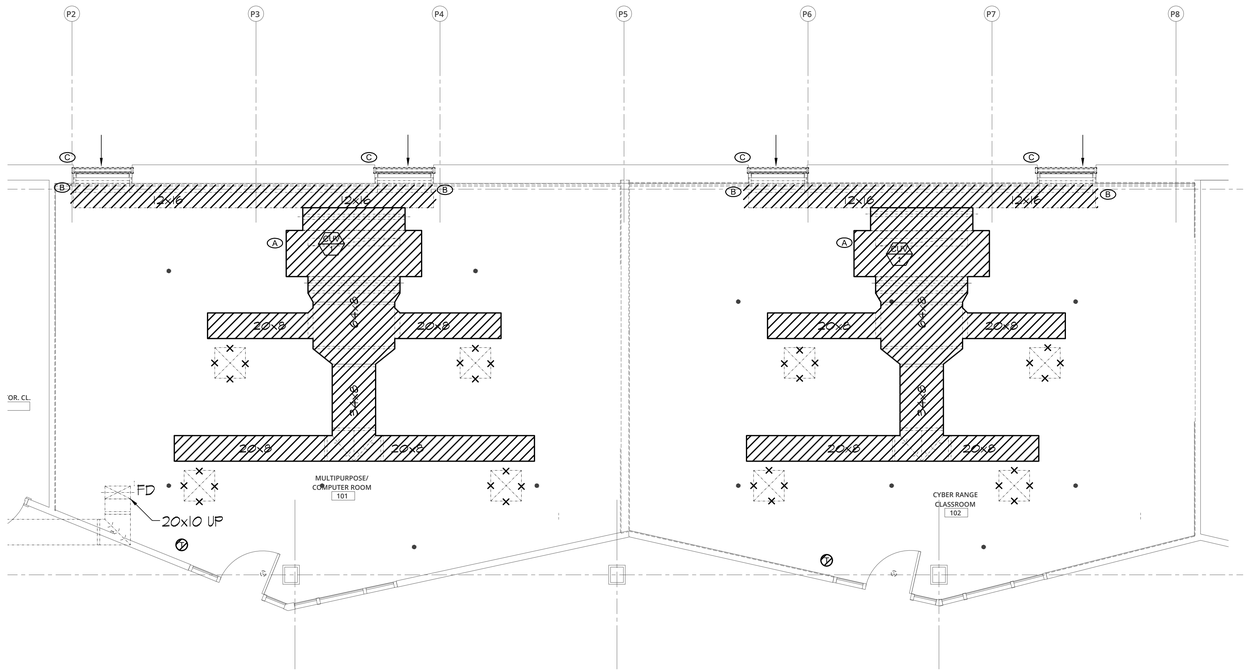
30 AUGUST 2024

Revisions

Drawing Title
MECHANICAL LEGENDS

M0.01



1 M1.00 ENLARGED FIRST FLOOR MECHANICAL DEMOLITION PLAN

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

GENERAL DEMO NOTES

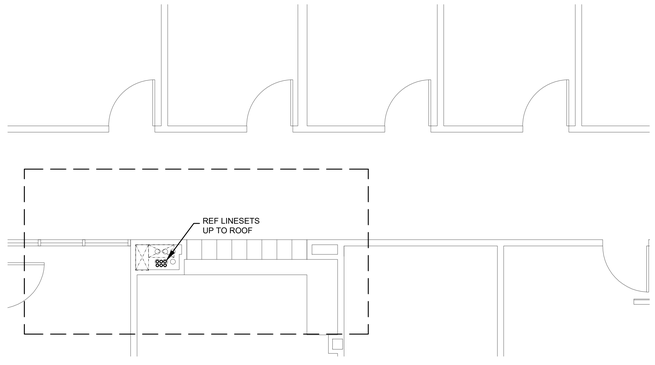
1. DEMOLISH ALL DUCTWORK, PIPING AND EQUIPMENT INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, WIRING, CONTROLS AND OTHER APPURTENANCES IN DESIGNATED AREAS INDICATED ON DRAWINGS.
2. CAP ALL OPEN END DUCTS AND PIPES RESULTING FROM DEMO THAT ARE NOT REUSED FOR NEW WORK.
3. EXISTING UNIT VENTILATORS (CUV-1), FIN TUBE, AND CONTROLS SHALL REMAIN IN PLACE. REMOVE EXISTING DIFFUSERS AND FLEX DUCT AND PREPARE CONNECTION AS INDICATED.

DEMO KEYNOTES

(A) EXISTING UNIT VENTILATOR, DUCTWORK, DTWS/R PIPING, COND PIPING, HANGERS, AND CONTROLS SHALL BE REMOVED. DEMO DTWS/R BACK TO MAIN AND VALVE/CAP/INSULATE.
(B) EXISTING FIN TUBE, ENCLOSURE, AND CONTROL VALVE SHALL REMAIN IN PLACE. REFER TO CONTROL FOR FINTUBE SEQUENCE MODIFICATIONS.
(C) EXISTING LOUVERS SHALL BE CLEANED OF ALL DEBRIS. DEMO DUCT CONNECTIONS TO LOUVER AND PREPARE FOR NEW SCOPE OF WORK.

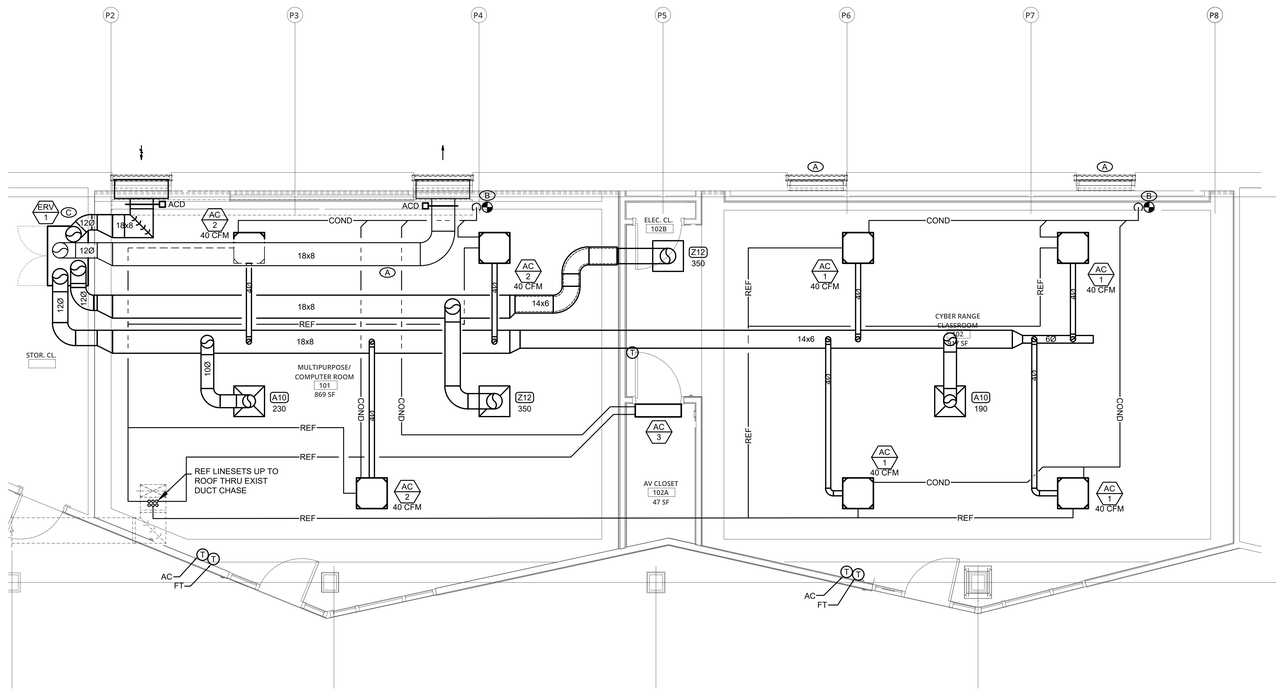
NEW WORK KEYNOTES

(A) PROVIDE LOUVER BLANK OFF PANELS OVER INACTIVE LOUVERS.
(B) CONNECT TO EXISTING CONDENSATE DISCHARGE PIPING AT CEILING HEIGHT.
(C) ERV SHALL BE FLOOR MOUNTED ON SPRING ISOLATORS. PROVIDE FLEX CONNECTION.
(D) CONDENSING UNITS SHALL BE MOUNTED ON 18" HIGH STANDS AND SLEEPERS BENEATH ROOFING MEMBRANE. REFER TO SLEEPER DETAIL.



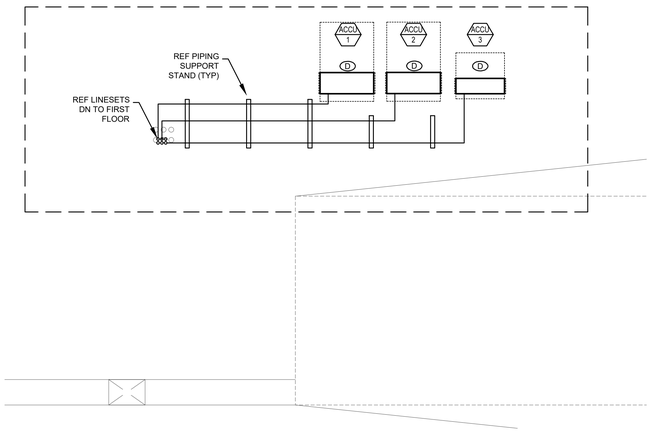
1 M1.00 ENLARGED SECOND FLOOR MECHANICAL PLAN

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



1 M1.00 ENLARGED FIRST FLOOR MECHANICAL PLAN

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



1 M1.00 ENLARGED ROOF MECHANICAL PLAN

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

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ENLARGED FIRST FLOOR PLAN

M1.00

SPLIT SYSTEM SCHEDULE - AIR SOURCE HEAT PUMP

INDOOR UNIT TAG	OUTDOOR UNIT TAG	COOLING					HEATING					INDOOR UNIT														OUTDOOR UNIT								MFR	INDOOR MODEL NUMBER	OUTDOOR MODEL NUMBER	REMARKS
		TOTAL CAPACITY (MBH)	SEER2	EAT DB (°F)	EAT WB (°F)	OUTDOOR DB TEMP (°F)	CAPACITY @17F (MBH)	COP @17F	HSPF2	EAT DB (°F)	OUTDOOR DB TEMP (°F)	INDOOR UNIT QTY	UNIT STYLE	COOLING CAPACITY PER UNIT (MBH)	SENSIBLE RATIO	CFM (H/L)	ESP (IN WC)	SOUND PRESSURE @ MAX CFM (dBA)	POWERED FROM OD UNIT (Y/N)	INTERNAL COND. LIFT MECHANISM (Y/N)	COND. PUMP (Y/N)	WEIGHT (LBS)	V	PH	HZ	MCA	MAX SOUND PRESSURE (dBA)	SEACOAST COATING (Y/N)	WEIGHT (LBS)	V	PH	HZ	MCA				
ACC-1	ACCU-1	60	18.5	80	67	95	35	-	-	65	8	4	24x24	15	0.79	405	-	39	N	Y	N	31	208	1	60	0.35	59	Y	302	208	1	60	45	MITSUBISHI	SLZ-KF15NA1	MXZ-SM60NAM2-U1	1-8
ACC-2	ACCU-2	36	13.5	80	67	95	34	-	-	65	8	3	24x24	12	0.79	335	-	31	N	Y	N	31	208	1	60	0.35	53	Y	271	208	1	60	45	MITSUBISHI	SLZ-KF09NA1	MXZ-SM36NAMHZ2-U1	1-8
ACC-3	ACCU-3	24	21.4 (SEER)	80	67	95	COOLING ONLY					1	WALL	24	0.79	775	-	45	Y	N	Y	46	POWERED BY OUTDOOR				47	Y	151	208	1	60	19	MITSUBISHI	PUY-A24NHA7	PKA-A24KA7	1-7

REMARKS:
1. REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNIT TO BE SIZED BY MANUFACTURER. EQUIPMENT SELECTION SHALL ACCOUNT FOR DERATE FOR OVERALL PIPING LENGTH AND ELEVATION DIFFERENCE.
2. OUTDOOR UNIT SHALL BE MOUNTED ON 18" SNOW STAND (DIVERSITECH QUICKSLING AS STANDARD)
3. PROVIDE DRAIN PAN HEATER AT OUTDOOR UNIT POWERED FROM SINGLE POINT CONNECTION.
4. PROVIDE 3/4" CONDENSATE LINE TO NEAREST DRAIN
5. CONDENSERS SHALL BE ANCHORED TO ROOF PER DELEGATED DESIGN TO SATISFY PROJECT WIND SPEEDS. PROVIDE ANCHOR TO STRUCTURE W/ CABLE RESTRAINTS.
6. PROVIDE LOW AMBIENT COOLING KIT
7. PROVIDE BACNET COMMUNICATION MODULES FOR INTEGRATION WITH BUILDING AUTOMATION SYSTEM.
8. ALL SYSTEM INDOOR UNITS SHALL BE CONTROLLER FROM SINGLE ROOM CONTROLLER.

ENERGY RECOVERY VENTILATOR

TAG	LOCATION	TOTAL AIRFLOW		FILTERS		EXHAUST FAN & MOTOR								SUPPLY FAN & MOTOR								ELECTRIC HEATER					ERV ELECTRICAL DATA						HEATER ELECTRICAL DATA				WEIGHT (LBS)	MFR	MODEL NUMBER	REMARKS
		SUPPLY	EXHAUST	OA	EA	FAN QTY	CFM EA. FAN	STATIC PRESSURE		CAPACITY CONTROL	FAN		MOTOR		FAN QTY	CFM EA. FAN	STATIC PRESSURE		CAPACITY CONTROL	FAN		MOTOR		POSITION	EAT DB (°F)	SAT DB (°F)	AIR FLOW (CFM)	KW	V	PH	HZ	MCA	MOP	SCCR	V	PH	HZ	KW				
								TSP (IN.W.C.)	ESP (IN.W.C.)		WHEEL TYPE	RPM	BHP (EA)	HP (EA)			TSP (IN.W.C.)	ESP (IN.W.C.)		WHEEL TYPE	RPM	BHP (EA)	HP (EA)																		
ERV-1	STORAGE CLOSET	700	700	MERV13	MERV9	1	700	-	0.75	VFD	BI/AF	2141	-	-	1	700	-	0.75	VFD	BI/AF	2319	-	-	PREHEAT	7	7	700	4.5	208	3	-	22.7	35	-	208	3	-	5	485	SYSTEMAIR	TR800-208-3-CAV	1-3

REMARKS:
1. PROVIDE BACNET MODULE FOR BAS INTEGRATION
2. UNIT SHALL BE MOUNTED ON 1" SPRING ISOLATORS.
3. INTAKE AND EXHAUST ISOLATION DAMPERS SHALL BE INTERLOCKED WITH OPERATION.

DIFFUSER, GRILLE & REGISTER SCHEDULE

SYMBOL	NECK SIZE/ RUNOUT SIZE (IN)	FACE SIZE (IN)	SELECTION RANGE (CFM)	SERVICE	MAXIMUM AIR P.D.	MAXIMUM N.C. LEVEL	MOUNTING	ACCESSORIES	MANUFACTURER MODEL NUMBER (AS STANDARD)	NOTES
A10	10Ø	24x24	0-270	SUPPLY	0.1	<15	24x24 LAY-IN MODULE	-	PRICE SPD	1-4
A14	14Ø	24x24	271-525	SUPPLY	0.1	<15	24x24 LAY-IN MODULE	-	PRICE SPD	1-4
Z12	12Ø	24x24	0-390	RETURN	0.1	16	24x24 LAY-IN MODULE	-	PRICE SPD	1-4

NOTES :
1. BORDER AND MOUNTING TYPES SHALL BE COMPATIBLE WITH CEILING TYPE FOR THE ROOM IN WHICH IT IS LOCATED. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL REFLECTED CEILING PLANS FOR SPECIFIC CEILING TYPES IN EACH SPACE.
2. FINISHES, COLOR AND BORDER TYPES SHALL BE APPROVED BY THE ARCHITECT.
3. REFER TO PLANS FOR LOCATION, AIR QUANTITIES, TYPE AND BLOW PATTERN OF EACH DEVICE.
4. PROVIDE ALUMINUM CONSTRUCTION

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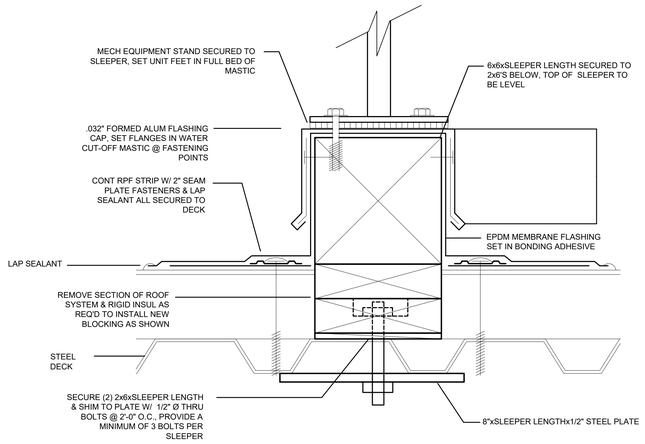
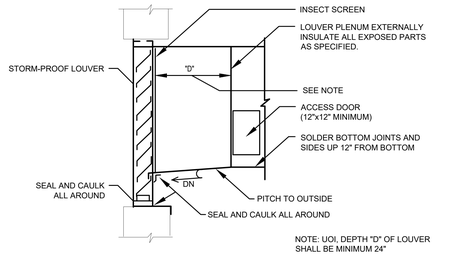
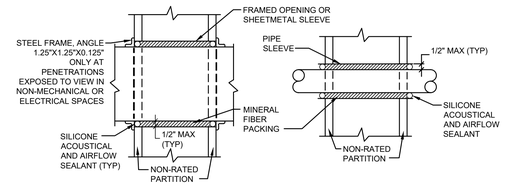


8 CONDENSER UNIT SLEEPER DETAIL NTS



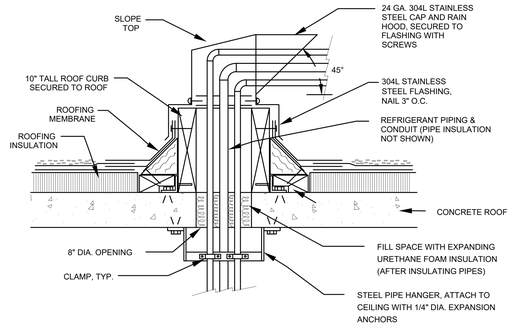
9 LOUVER CONNECTION DETAIL NTS



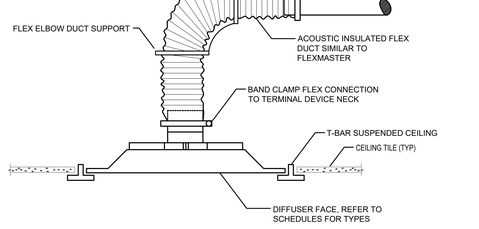
NOTES:
1. AT FIRE RATED PARTITIONS, REPLACE PACKING AND SILICONE SEALANT WITH UL LISTED FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH UL LISTING.
2. FIRE STOP PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE CEILINGS.

4 PENETRATION THROUGH FULL HEIGHT WALL PARTITION NTS

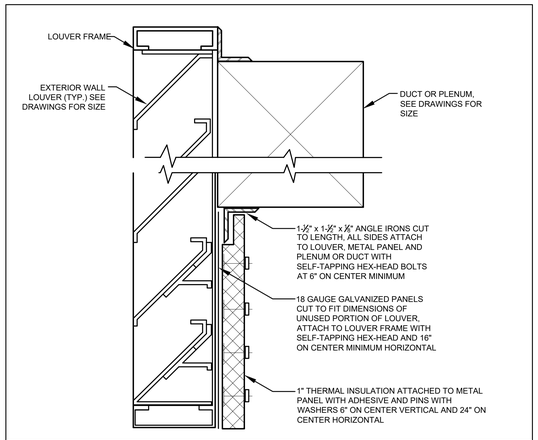
NOTE:
1. ALTERNATIVELY PRE-MANUFACTURED SYSTEM (SIMILAR TO RPH PRODUCTS, AW SERIES) CAN BE PROVIDED IN LIEU OF DETAIL BELOW. PROVIDE MANUFACTURER WEATHER TIGHT SEALS.



5 REFRIGERANT LINESET PIPING ROOF PENETRATION NTS

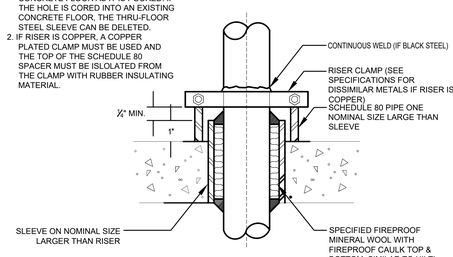


6 GRID CEILING DIFFUSER/REGISTER CONNECTION DETAIL NTS

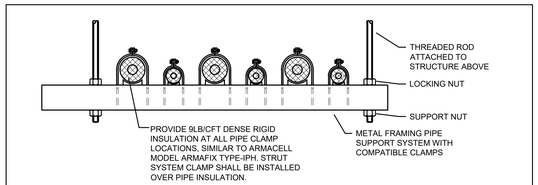


7 WALL LOUVER BLANK-OFF DETAIL NTS

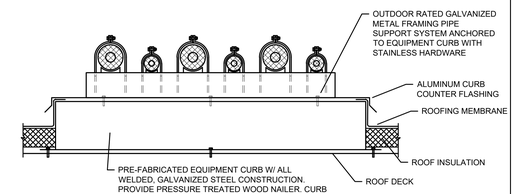
NOTE:
1. THIS DETAIL APPLIES TO HOLES WHERE SLEEVE IS SET INTO THE CONCRETE FLOOR AS IT IS POURED. IF THE HOLE IS CORED INTO AN EXISTING CONCRETE FLOOR, THE THRU-FLOOR STEEL SLEEVE CAN BE DELETED.
2. IF RISER IS COPPER, A COPPER PLATED CLAMP MUST BE USED AND THE TOP OF THE SCHEDULE 80 SPACER MUST BE ISLOLATED FROM THE CLAMP WITH RUBBER INSULATING MATERIAL.



1 PIPE RISER SUPPORT DETAIL NTS



INDOOR PIPE SUPPORT DETAIL

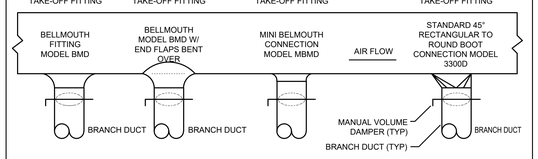


OUTDOOR PIPE SUPPORT DETAIL

NOTES:
1. DETAIL IS SHOWN DIAGRAMATICALLY. PROVIDE ALL FRAMING CHANNELS, FITTINGS, BRACKETS, BOLTS, PLATES AND ALL REQUIRED ACCESSORIES TO BUILD A COMPLETE PIPE SUPPORT STRUCTURE. CONTRACTOR IS RESPONSIBLE STRUCTURAL DESIGN OF PIPING SUPPORT SYSTEM.
2. SWAY BRACING SHALL BE INSTALLED TO PREVENT PIPE MOVEMENT.
3. PROVIDE GALVANIZED INSULATION SHIELDS UNDER RIGID INSULATION AT SUPPORT LOCATIONS.
4. ALL EXTERIOR PIPE SYSTEM COMPONENTS SHALL BE GALVANIZED CONSTRUCTION.

2 REFRIGERANT PIPING SUPPORT SYSTEM DETAIL NTS

NOTE: ALTERNATE FITTINGS TO BE USED WHEN DUCT HEIGHT DOES NOT PERMIT THE USE OF THE FULL SIZE, PREFERRED BELLMOUTH



DUCT SIZE	HOLE SIZE	MINIMUM DUCT HEIGHT
5"	8"	9"
6"	9"	10"
7"	10"	11"
8"	11"	12"
9"	12"	13"
10"	13"	14"
12"	15"	16"
14"	17"	18"
16"	19"	20"

DUCT SIZE	HOLE SIZE	MINIMUM DUCT HEIGHT
5"	-	-
6"	7"	9"
7"	-	-
8"	9"	11"
9"	-	-
10"	11"	13"
12"	-	-
14"	-	-
16"	-	-

DUCT SIZE	HOLE SIZE	MINIMUM DUCT HEIGHT
5"	5"x10"	7"
6"	6"x12"	8"
7"	6"x12"	8"
8"	6.5"x12"	8.5"
9"	6.5"x14"	8.5"
10"	6.5"x16"	8.5"
12"	8.5"x18"	12"
14"	10"x20"	10.5"
16"	-	-

3 ROUND BRANCH DUCT TAKE-OFF DETAIL NTS

LLB ARCHITECTS
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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

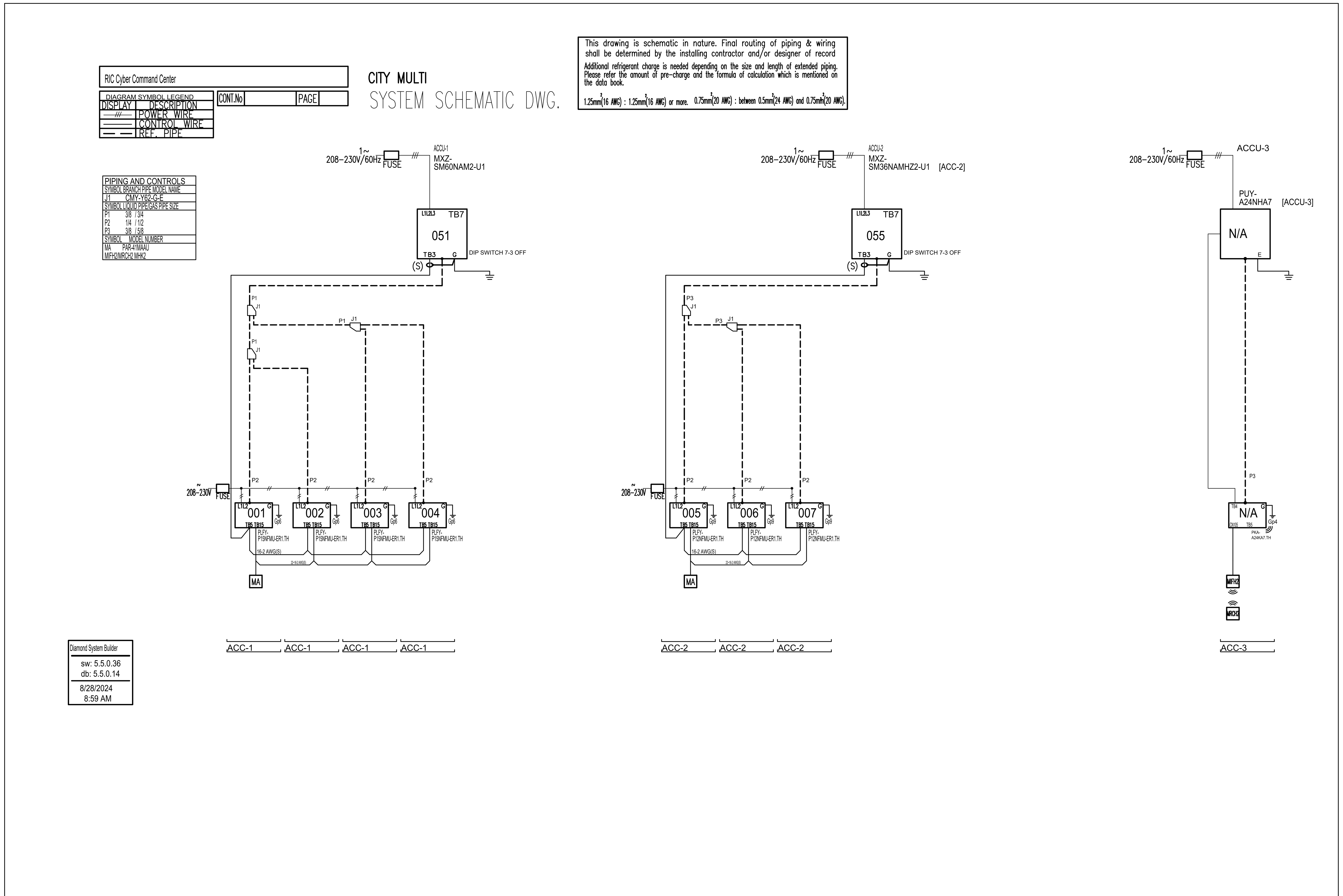
Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

Drawing Title
MECHANICAL DETAILS

M3.00



RIC Cyber Command Center
DIAGRAM SYMBOL LEGEND
DISPLAY | DESCRIPTION
POWER WIRE
CONTROL WIRE
REF. PIPE
CONT.No
PAGE
CITY MULTI
SYSTEM SCHEMATIC DWG.
This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record
Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
PIPING AND CONTROLS
J1 CMY-Y62-G-E
P1 3/8 / 3/4
P2 1/4 / 1/2
P3 3/8 / 5/8
MA PAR-41MAAU
208-230V/60Hz
FUSE
ACCU-1
MXZ-SM60NAM2-U1
TB7
051
TB3
DIP SWITCH 7-3 OFF
001
002
003
004
MA
ACC-1
ACC-2
MXZ-SM36NAMHZ2-U1 [ACC-2]
055
005
006
007
ACCU-3
PUY-A24NHA7 [ACCU-3]
N/A
ACC-3
Diamond System Builder
sw: 5.5.0.36
db: 5.5.0.14
8/28/2024
8:59 AM

1 HEAT PUMP SYSTEM PIPING AND WIRING RISER DIAGRAMS NTS

LLB ARCHITECTS

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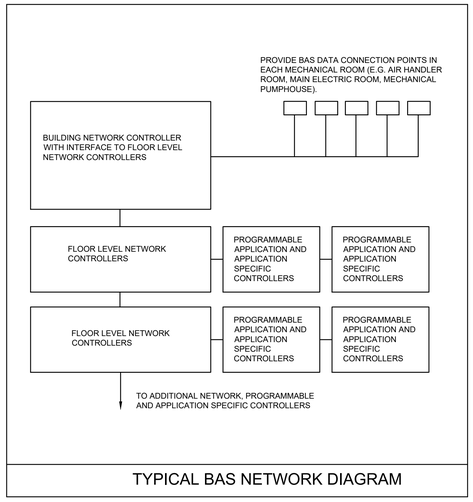
RISER DIAGRAMS

M3.01

CONTROLS SENSOR & DEVICE LEGEND

FCD 00	FLOW CONTROL DAMPER (DIGITAL OUTPUT)
FCV 00	FLOW CONTROL VALVE (ANALOG OUTPUT)
PDIT 00	PRESSURE DIFFERENTIAL TRANSMITTER (ANALOG INPUT)
TT 00	TEMPERATURE TRANSMITTER (ANALOG INPUT)
TAL TT TAH 00	TEMPERATURE TRANSMITTER W/ LOW AND HIGH ALARMS (ANALOG INPUT)
YS 00	USER-DEFINED EVENT STATUS (DIGITAL INPUT)



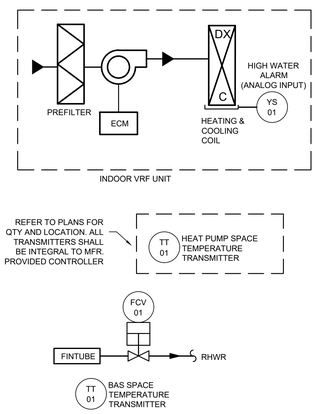
TYPICAL BAS NETWORK DIAGRAM

HVAC DDC SYSTEM - GENERAL NOTES

1. SYSTEMS INCLUDED IN THIS DRAWING PACKAGE SHALL BE INTEGRATED WITH THE EXISTING SIEMENS BUILDING AUTOMATION SYSTEM (BAS) WITHIN ALGER HALL.
2. ELECTRICAL POWER WIRING: ALL POWER WIRING AND CONNECTIONS REQUIRED TO OPERATE DIRECT DIGITAL CONTROL SYSTEM (DDC SYSTEM) AND ALL CONTROL COMPONENTS SHALL BE PROVIDED UNDER THIS SECTION AND SHALL COMPLY WITH REQUIREMENTS OF DIVISION 26 SECTIONS. PROVIDE NORMAL AND STANDBY POWER WIRING TO ALL CONTROL DEVICES TO PERFORM SEQUENCES OUTLINED. AS A MINIMUM THE DDC SYSTEM (ALL CONTROL PANELS, WORKSTATION, HOST COMPUTERS) SHALL BE CONNECTED TO STANDBY POWER. ELECTRICAL CIRCUITS FOR ALL CONTROLS SHALL BE DEDICATED ONLY TO THE DDC SYSTEM AND COMPONENTS. ALL WIRING FROM AND INCLUDING DEDICATED CIRCUIT BREAKERS TO THE POINT OF USE SHALL BE PROVIDED BY THIS SECTION.
3. SEQUENCES OUTLINED (UNLESS OTHERWISE SPECIFIED) SHALL BE PERFORMED BY NETWORK CONTROLLERS, PROGRAMMABLE APPLICATION CONTROLLERS AND APPLICATION SPECIFIC CONTROLLERS.
4. ALL CONTROL PANELS SHALL BE PROVIDED WITH A UPS (UNINTERRUPTIBLE POWER SUPPLY), AND CIRCUITED TO GENERATOR STANDBY POWER SOURCE.
5. UNLESS OTHERWISE SPECIFIED, ALL SETPOINTS AND TIME DELAYS SHALL BE ADJUSTABLE BY THE OPERATOR THROUGH MENU ACCESS AT ALL DDCFPS WITHOUT ANY HARDWARE OR SOFTWARE REVISIONS.
6. ABILITY TO REVIEW ALL MEASURED DATA, CONTROL SETPOINTS AND FUNCTIONS SHALL BE PROVIDED AT DDCFPS.
7. THE DESIGN INTENT IS FOR THE LOCAL TEMPERATURE CONTROLS TO MONITOR PRESSURES, TEMPERATURES AND FLOWS AND TO CONTROL VALVES, VARIABLE FREQUENCY DRIVES (VFDS), AHU, PUMPS, ETC.... MONITORED DATA WILL BE USED TO ENERGIZE OR DE-ENERGIZE EQUIPMENT IN ACCORDANCE WITH THE SEQUENCES OUTLINED.
8. THE POSITIONING OF ALL VALVES CONTROLLED BY THE BAS SHALL BE CAPABLE OF MANUAL POSITIONING (OPEN, CLOSED, MODULATED, AUTO) VIA LABELED POTENTIOMETERS AND SWITCHES PROVIDED BY THE ATC CONTRACTOR. SAFETY DEVICES SHALL FUNCTION AND SHUT DOWN THE ASSOCIATED EQUIPMENT WHEN THE MANUAL SWITCHES ARE IN BOTH THE HAND AND AUTO POSITIONS.
9. COORDINATE ALL SENSOR INSTALLATION LOCATIONS WITH OWNER AND SUBMIT PROPOSED POSITIONS ON APPLICABLE COORDINATION SUBMITTALS. COORDINATE AND INSURE MANUFACTURER'S RECOMMENDED UPSTREAM AND DOWNSTREAM PIPE OR DUCT DIAMETERS ARE PROVIDED.
10. PROVIDE COMMUNICATIONS INTERFACE INCLUDING SOFTWARE BETWEEN THE DDC SYSTEM AND EACH EQUIPMENT MANUFACTURER SUPPLIED CONTROL PANEL. DDC SYSTEM SHALL BE CAPABLE OF READING AND DISPLAYING ALL DATA USED BY THE EQUIPMENT MANUFACTURER CONTROL PANEL. SOFTWARE INTERFACE SHALL BE THROUGH BACNET OR MODBUS COMPLIANT PROTOCOL WHERE THE DDC SYSTEM IS REQUIRED TO CONTROL THE OPERATION OF THE EQUIPMENT. PROVIDE COMPLETE INPUT AND OUTPUT INTERFACE.
11. PROVIDE ADEQUATE DAMPING OF ALL MODULATING CONTROL LOOPS TO PREVENT HUNTING. ALL CONTROL LOOPS SHALL BE TUNED TO PROVIDE FOR STABLE OPERATION OF THE CONTROL DEVICE. LOOP TUNING MAY BE REQUIRED MULTIPLE TIMES TO STABILIZE MULTIPLE CONTROL SCENARIOS.
12. ALL SAFETIES SHALL BE HARDWIRED TO MOTOR CONTROLLER WITH MANUAL RESET. WHENEVER A UNIT IS SHUT DOWN BECAUSE OF ONE OF IT'S SAFETIES, THE CONTROLLER SHALL RETAIN IN MEMORY THE READING AND SETPOINT OF EACH ASSOCIATED DEVICE TO HELP THE OPERATOR IN ISOLATING THE CAUSE OF THE SHUT DOWN.
13. WHENEVER AN ALARM IS INITIATED, THE CONTROLLER SHALL RETAIN IN MEMORY THE READING AND SETPOINT OF EACH ASSOCIATED DEVICE TO HELP THE OPERATOR IN ISOLATING THE CAUSE OF THE ALARM.
14. WHENEVER A UNIT IS TAKEN OFFLINE FOR MAINTENANCE, ALL ALARMS ASSOCIATED WITH UNIT SHALL BE DISABLED TO PREVENT NUISANCE ALARMS.
15. IF ANY CONTROLLER OR EQUIPMENT MANUFACTURER CONTROL PANEL LOSES COMMUNICATION WITH THE DDC SYSTEM NETWORK, AN ALARM SHALL BE INITIATED AT THE DDC SYSTEM INDICATING THE LOCATION OF THE FAULT.
16. WHERE CURRENT TRANSMITTERS ARE USED TO DETERMINE FAN OR EQUIPMENT STATUS, A BELT OFF TEST SHALL BE PERFORMED TO DETERMINE CURRENT LOW POINT TO VERIFY STATUS. A VFD FAILURE SHALL BE IDENTIFIED WHEN BOTH VIRTUAL VFD FAULT IS RECEIVED AND CURRENT TRANSMITTER INDICATED EQUIPMENT STATUS OFF.
17. ALL WALL MOUNTED TEMPERATURE OR HUMIDITY TRANSMITTERS SHALL HAVE ALL PENETRATIONS SEALED. ALL TEMPERATURE TRANSMITTERS MOUNTED ON PERIMETER WALLS OR COLUMNS SHALL HAVE A THERMALLY INSULATED MOUNTING PLATE TO ENSURE READING OF TRUE SPACE CONDITION.
18. UNLESS OTHERWISE INDICATED THE FOLLOWING ABBREVIATIONS INDICATE THE ASSOCIATED SENSORS CONNECTED TO THE DDC SYSTEM:
    TT - TEMPERATURE TRANSMITTER
    MT - MOISTURE/HUMIDITY TRANSMITTER
19. THE FOLLOWING DEFINITIONS APPLY TO THE SEQUENCES OF OPERATION:
    a. DDCFP: DIRECT DIGITAL CONTROL FIELD PANEL. DDCFPS ARE VARIOUS APPLICATION BASED LOCAL SYSTEM CONTROLLERS WITH INPUTS FROM MONITORED DEVICES, OUTPUTS TO CONTROLLED DEVICES, CONTROLLING LOGIC SOFTWARE, AND NETWORKING CAPABILITY FOR COMMUNICATION WITH THE BAS.
    b. END DEVICE: MONITORED SENSORS AND CONTROLLED OPERATORS FOR SPECIFIC EQUIPMENT ITEMS. END DEVICES WILL PROVIDE A VARIETY OF ANALOG OR BINARY INPUT SOURCES TO THE DDCFPS AS WELL AS RECEIVE OUTPUTS FROM LOCAL CONTROLLERS OR DDCFPS.
18. ALL EQUIPMENT AND ROOM TAGGING WITHIN DDC SYSTEM SHALL BE COORDINATED WITH OWNER AND SUBMITTED FOR FINAL REVIEW TO ENSURE GRAPHICAL ACCURACY.
19. AS A MINIMUM, ONE PROGRAMMABLE APPLICATION CONTROLLER SHALL BE PROVIDED FOR EACH AIR HANDLING UNIT AND ONE FOR EACH EXHAUST FAN FOR REDUNDANCY.

SEQUENCE OF CONTROLS - STANDBY POWER

1. THE FOLLOWING OUTLINE DEFINES THE SEQUENCE OF OPERATION FOR THE BUILDING HVAC SYSTEMS CONNECTED TO THE STANDBY POWER SYSTEMS.
2. THE DDC SYSTEM SHALL PICK UP A CONTACT CLOSURE AT THE STANDBY POWER AUTOMATIC TRANSFER SWITCH OR GENERATOR SWITCHGEAR FOR LOSS OF MAIN UTILITY POWER AND SHALL PERFORM SEQUENCES OUTLINED ON THE CONTRACT DOCUMENTS TO INSURE LIFE SAFETY SYSTEMS OPERATE AS SPECIFIED. THIS INPUT SHALL BE PROVIDED INDEPENDENTLY TO AT LEAST TWO DDCFP. STANDBY POWER SEQUENCES SHALL BE ENABLED ONLY AFTER LIFE SAFETY SYSTEMS ARE OPERATIONAL.
3. UPON INITIAL LOSS OF NORMAL POWER AS DETERMINED BY THE DDC SYSTEM, ALL HVAC EQUIPMENT IN THE BUILDING SHALL SHUT DOWN AND ALL ASSOCIATED DEVICES SHALL GO TO THEIR FAIL SAFE POSITIONS.
4. UPON A SIGNAL FROM THE GENERATOR CONTROL PANEL THAT STANDBY POWER IS AVAILABLE, THE DDC SYSTEM SHALL SEQUENCE THE STARTUP OF EQUIPMENT THROUGHOUT THE FACILITY AS DESCRIBED IN THE INDIVIDUAL SEQUENCES. THE FOLLOWING IDENTIFIES THE PRIORITY SEQUENCE OF HVAC EQUIPMENT STARTUP. AFTER THE SPECIFIC ITEM IS STARTED THE START SEQUENCE FOR THE NEXT PIECE OF EQUIPMENT SHALL BE INITIATED. THE DDC SYSTEM SHALL PROVIDE A 1 MINUTE DELAY (ADJUSTABLE) BETWEEN THE START OF EACH PIECE OF EQUIPMENT LISTED BELOW:
    a. DDC SYSTEM POWER CIRCUITS & NON-DDC SYSTEM CONTROLLED SYSTEMS WILL START
    b. 1ST FLOOR VRF SYSTEMS
    c. 2ND FLOOR VRF SYSTEMS
    d. 3RD FLOOR VRF SYSTEMS
    e. OTHER SYSTEM CONNECTED TO STANDBY POWER.
5. ONCE NORMAL POWER IS RE-ESTABLISHED AFTER POWER FAILURE, ALL SEQUENCES SHALL AUTOMATICALLY RESUME NORMAL OPERATION.



GENERAL

1. REQUIREMENTS OF "HVAC DDC SYSTEM - GENERAL NOTES" APPLY TO ALL SEQUENCES.
2. THIS CONTROL SEQUENCE APPLIES TO ALL INDOOR HEAT PUMP/VRF HEATING AND COOLING FAN COIL UNITS.
3. SEQUENCES SHALL BE PERFORMED BY THE FACTORY PROVIDED WALL MOUNT CONTROLLER. ALL SPACE MOUNTED SENSORS SHALL BE INTEGRAL TO WALL MOUNTED CONTROLLED.
4. VRF SYSTEM SHALL BE PROVIDED WITH CENTRAL CONTROLLER AND DIGITAL INPUT DIGITAL OUTPUT CONTROLLERS TO SATISFY CONTROL AND ALARMING SEQUENCES.
5. PROVIDE CONTROL CONNECTION BETWEEN INDOOR UNIT, OUTDOOR UNIT, AND CENTRAL CONTROLLER.
6. PROVIDE NEW APPLICATION CONTROLLER FOR FINTUBE CONTROL. EXISTING FINTUBE CONTROL VALVES SHALL BE REUSED.

SAFETIES

1. CONDENSATE DRAIN PAN HIGHER WATER DETECTION VIA YS-01 SHALL DISABLE FAN COIL UNIT COOLING OPERATION - DELAY NONE.

ALARMS

1. THE FOLLOWING SHALL INITIATE SPECIFIC ALARM NOTICES AT THE VRF CENTRAL CONTROLLER AND BAS ONLY WHEN THE UNIT STATUS IS "ON":
    a. SPACE TEMPERATURE AT TT-01 IS 5 DEG F ABOVE COOLING SETPOINT - DELAY 5 MINUTES.
    b. SPACE TEMPERATURE AT TT-01 IS 5 DEG F BELOW HEATING SETPOINT - DELAY 5 MINUTES.
    c. CONDENSATE DRAIN PAN HIGH WATER ALARM YS-01 - DELAY NONE.

BAS - VRF SYSTEM INTERFACE

1. THE FOLLOWING POINTS SHALL BE AVAILABLE FOR DISPLAY AT THE BAS FOR EACH FCU AND OUTDOOR UNIT:
    a. FCU FAN SPEED
    b. FCU ZONE SPACE TEMPERATURE SETPOINT
    c. FCU ZONE SPACE HUMIDITY
    d. FCU ZONE SPACE TEMPERATURE
    e. FCU ZONE SPACE HUMIDITY
    f. FCU DISCHARGE TEMPERATURE
    g. FCU VANE DIRECTION (DUCTLESS UNITS ONLY)
    h. FCU ZONE MODE (AUTO, HEAT, COOL)
    i. FCU FAULT
    j. FCU FILTER DIRTY FILTER
    k. FCU HIGH CONDENSATE ALARM
    l. FCU ZONE OCCUPANCY DETECTION STATUS
    m. OUTDOOR UNIT COMPRESSOR SPEED
    n. OUTDOOR UNIT FAN SPEED
    o. OUTDOOR UNIT FAN FAULT
    p. OUTDOOR UNIT COMPRESSOR FAULT
    q. OUTDOOR UNIT REFRIGERANT PRESSURES

START/STOP SEQUENCE

1. NORMALLY ALL VRF INDOOR UNITS BE AVAILABLE FOR OPERATION 24 HOURS PER DAY SEVEN DAYS PER WEEK.
2. WHENEVER OCCUPANCY IS SCHEDULED, THE UNIT SHALL BE ENERGIZED AND FAN SHALL RUN CONTINUOUSLY IN AUTO FAN SPEED MODE.
3. WHENEVER INDOOR UNIT IS IN OCCUPIED MODE, OCCUPANCY SIGNAL SHALL BE PROVIDED TO VENTILATION UNIT FOR VENTILATION AIRFLOW TO BE PROVIDED WHILE OCCUPIED. FAN SHALL OPERATE WHEN VENTILATION UNIT IS ON.

TEMPERATURE CONTROL SEQUENCE

1. IF THE TEMPERATURE RISES ABOVE COOLING SETPOINT, THE INDOOR UNIT COOLING MODE SHALL BE ENABLED. UPON A DROP IN TEMPERATURE THE REVERSE SHALL OCCUR.
2. UPON A CONTINUED DROP BELOW THE HEATING SETPOINT, THE INDOOR UNIT HEATING MODE SHALL BE ENABLED.
3. PROVIDE GLOBAL TEMPERATURE SETPOINT LIMITS OF 70 DEGREE F HEATING AND 73 DEGREE F COOLING. COORDINATE FINAL VALUES WITH OWNER. PROVIDE CAPABILITY TO LIMIT GLOBAL HEATING AND COOLING SETPOINTS AT CENTRAL CONTROLLER (IE. MIN HEATING 70 DEGREE F AND MAX COOLING 75 DEGREE F).

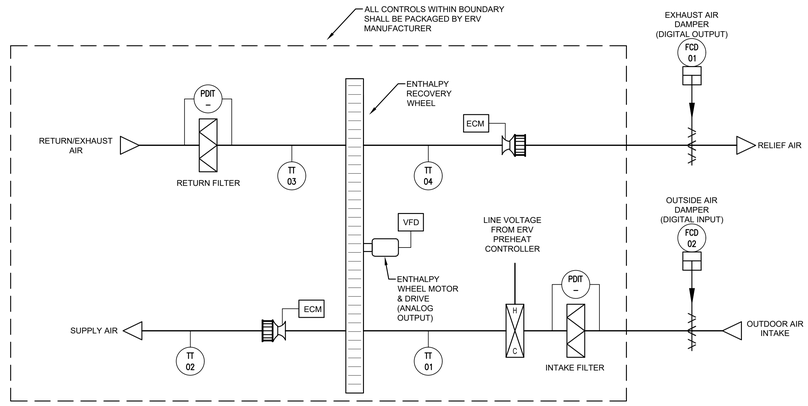
SUPPLEMENTAL HEATING

1. HEAT PUMP FAN COIL SHALL BE FIRST STAGE OF HEATING, FIN TUBE SHALL BE SECONDARY WHEN SPACE TEMPERATURE FALLS 2 DEGREES BELOW HEATING SETPOINT. BAS SHALL DISABLE FIN TUBE WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 50 DEGREE F.

POWER FAILURE MODE

1. UPON A LOSS OF POWER, ALL DEVICES SHALL RETURN TO THEIR FAILSAFE POSITIONS.
2. WHEN STANDBY POWER IS ESTABLISHED, OUTDOOR AND INDOOR UNIT SHALL OPERATE PER SEQUENCE ABOVE TO MAINTAIN AND COOLING HEATING SETPOINT.
3. WHEN NORMAL POWER IS RE-ESTABLISHED, THE SYSTEM SHALL RESTART AUTOMATICALLY AS DESCRIBED ABOVE FOR INITIAL STARTUP.

VRF/HEAT PUMP INDOOR UNIT



ENERGY RECOVERY VENTILATOR (ERV) CONTROL SEQUENCE

GENERAL

1. REQUIREMENTS OF "HVAC DDC SYSTEM - GENERAL NOTES" APPLY TO ALL SEQUENCES.
2. POINTS SHOWN ON THE DIAGRAM, POINTS LIST, AND REQUIRED BY THE SEQUENCES (EXCEPT COMMON INPUT POINTS IDENTIFIED) ARE TYPICAL FOR THE AIR HANDLING UNIT.
3. SEQUENCES SHALL BE PERFORMED BY A STAND ALONE DDC FIELD PANEL OR MANUFACTURER PROVIDED CONTROLLER.
4. THE ERV SHALL NORMALLY RUN WHENEVER ZONES SERVED BY UNIT ARE IN OCCUPIED OR UNOCCUPIED MODE, AS DETERMINED BY BAS CENTRAL CONTROLLER.
5. WHEN THE ERV IS OFFLINE VIA SAFETY SHUTDOWN, CONTROLLER INPUT, THE ERV SERVICE DISCONNECT OR ANY OF THE LISTED SAFETIES, THE FOLLOWING SHALL OCCUR: AHU SUPPLY AND EXHAUST FANS SHALL BE DE-ENERGIZED, OUTSIDE AIR DAMPER, AND EXHAUST AIR DAMPER SHALL CLOSE.
6. ERV CONTROLLER SHALL BE INTEGRATED INTO BUILDING BAS SYSTEM VIA MFR PROVIDED BACNET COMMUNICATION MODULE. COORDINATE INTEGRATION TO ACHIEVE CONTROL AND ALARMING AS INDICATED BELOW.

ALARMS

1. THE FOLLOWING SHALL INITIATE SPECIFIC ALARM NOTICES AT THE VRF CENTRAL CONTROLLER:
    a. AUXILARY ALARM CONTACTS IN THE ERV CONTROLLER; INDICATES A FAILURE OF THE ERV - DELAY 15 SECONDS.
    b. DISCHARGE TEMPERATURE IS BELOW 50 DEGREES F WHEN ERV STATUS IS ON - DELAY 5 MINUTES.
    c. FILTER DIFFERENTIAL PRESSURE AT PDIT-01 RISES ABOVE 0.5"- DELAY 10 MINUTES.

AHU START/STOP SEQUENCE

1. ERV SHALL BE STARTED AND STOPPED AUTOMATICALLY BASED UPON SCHEDULED OCCUPANCY SCHEDULE.
2. WHEN THE AIR HANDLING SYSTEM STATUS IS ON AND IS COMMANDED TO STATUS-OFF, ALL FANS SHALL BE DE-ENERGIZED. ONCE STATUS IS SENSED AS OFF VIA CURRENT TRANSMITTERS, ALL ASSOCIATED UNIT VALVES AND DAMPERS SHALL GO TO THEIR FAIL SAFE STATUS-OFF POSITIONS.
3. WHEN AIR HANDLING SYSTEM IS OFF, STARTUP OF THE AHUS SHALL BE INITIATED VIA INPUT THROUGH THE LOCAL CONTROLLER TO ACTIVATE THE AHU SYSTEM. ONCE THE INITIAL COMMAND IS INPUT, THE SYSTEM SHALL START AND STOP FANS AUTOMATICALLY BASED ON REQUIRED SYSTEM CAPACITY. FOR INITIAL STARTUP THE FOLLOWING SHALL OCCUR:
    a. UPON SIGNAL TO START, THE AHU EXHAUST AIR RELIEF DAMPER AND OUTSIDE AIR INTAKE DAMPER SHALL OPEN FULLY. SUPPLY AND EXHAUST FANS THEN SHALL START AT LOW SPEED. AFTER 30 SECOND DELAY RETURN FANS SHALL START AT LOW SPEED. LOW SPEED SHALL BE DEFINED BY THE ECM MANUFACTURER AS MINIMUM RECOMMENDED OPERATING SPEED.
    b. ENERGY RECOVERY WHEEL SHALL MODULATE TO MAXIMIZE ENERGY RECOVERY.
    c. AFTER STATUS IS PROVED FOR AHU, AFTER 30 SECOND DELAY, THE TEMPERATURE CONTROL SEQUENCE SHALL BE ENABLED, THE FAN SPEED OF THE AHU SUPPLY AND RETURN ECMS SHALL BE INCREASED SLOWLY IN PARALLEL TO ACHIEVE SYSTEM CONSTANT VOLUME SETPOINTS AS DETERMINED DURING BALANCING.
    d. IF FAILURE OF AIR HANDLER OR FAN OCCURS DURING AN AUTOMATIC START, TWO ADDITIONAL ATTEMPTS SHALL BE MADE. AFTER THE FINAL ATTEMPT AT RESTART, THE AHU AND FANS SHALL BE LOCKED OUT AND AN ALARM SHALL BE INITIATED AT THE BAS AND THE AHU SYSTEM FAILURE SEQUENCE SHALL THEN BE INITIATED.

DISCHARGE AIR TEMPERATURE CONTROL

1. THE BAS SHALL OPTIMIZE THE ENERGY RECOVERY OPERATION BY MODULATING THE ENERGY WHEEL SPEED PRIOR TO SEQUENCING ELECTRIC PREHEAT. SEQUENCE SHALL MODULATE ENERGY WHEEL IN MODERATE WEATHER TO PREVENT OVERHEATING SUPPLY AIR.
2. IF THE UNIT DRYBULB TEMPERATURE SETPOINT AS SENSED AT TT-02 IS BELOW SETPOINT BY THE ENERGY WHEEL ALONE, THE ELECTRIC HEATING COIL SHALL MODULATE TO SATISFY DISCHARGE TEMPERATURE. AS DISCHARGE TEMPERATURE BEGINS TO RISE, HEATING COIL CONTROLLER SHALL MODULATE OFF.
3. WHEN OUTSIDE AIR, AS DETERMINED BY TT-01, FALLS BELOW 10 DEG F, ELECTRIC PREHEAT SHALL MODULATE TO SATISFY 10 DEG F ENTERING AIR TEMP FOR DEFROST.

POWER FAILURE MODE:

1. UPON A LOSS OF POWER, ALL DEVICES SHALL RETURN TO THEIR FAILSAFE POSITIONS.
2. WHEN NORMAL POWER IS RE-ESTABLISHED, THE SYSTEM SHALL RESTART AUTOMATICALLY AS DESCRIBED ABOVE FOR INITIAL STARTUP.

HISTORIES/TRENDING & REPORTS

1. THE AIR HANDLER SOFTWARE SHALL BE CAPABLE OF RECORDING AND PRODUCING REPORTS TO DOCUMENT ALL READINGS ASSOCIATED WITH EACH AHU DEVICE SHOWN. INCLUDE GRAPHING CAPABILITY IN REPORT GENERATING SOFTWARE. DATA RECORDING SHALL BE CAPABLE OF STORING HOURLY READINGS, DAILY AVERAGE READING, WEEKLY AVERAGE READING AND MONTHLY AVEREAGE READING. SOFTWARE SHALL ALSO BE CAPABLE OF REPORTING DAILY AND MONTHLY HIGH/LOW PEAK READINGS.

ENERGY RECOVERY VENTILATOR (ERV)

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LEGEND NOTES

MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS INDICATED OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS

ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

HOMERUNS

P-1 — HOMERUN TO PANELBOARD. "P" DENOTES PANEL, "1" DENOTES CIRCUIT NUMBER, 20 AMP 1 POLE CIRCUIT BREAKER UNLESS INDICATED OTHERWISE. WIRING SHALL BE 2#12+1#12G IN 3/4"C AT MINIMUM.

30/3 — P-2,4,6 — 2#10+1#10G, 3/4"C. — MULTI-POLE HOMERUN TO PANELBOARD, "P" DENOTES PANEL, "2,4,6" DENOTES CIRCUIT NUMBERS, "30/3" DENOTES 30 AMP 3 POLE CIRCUIT BREAKER. WIRING SHALL BE AS INDICATED.

RACEWAYS AND WIRING

E — 2#10,#10G EMERGENCY ONLY WIRING

CT — CABLE TRAY - REFER TO SPECIFICATIONS FOR REQUIREMENTS

FLEXIBLE CONNECTION TO EQUIPMENT. RACEWAY AND CONDUCTOR RATING TO MATCH ASSOCIATED BRANCH CIRCUIT OR FEEDER.

BRANCH CIRCUIT OR FEEDER CONCEALED IN FINISHED AREA.

BRANCH CIRCUIT OR FEEDER CONCEALED UNDER FINISHED FLOOR.

BRANCH CIRCUIT OR FEEDER TURNING UP TOWARDS OBSERVER.

BRANCH CIRCUIT OR FEEDER TURNING DOWN AWAY FROM OBSERVER.

CONDUIT STUBBED ABOVE CEILING.

LIGHTING FIXTURES

A — 2a — SURFACE OR RECESSED MOUNTED LIGHTING FIXTURE ON NORMAL CIRCUIT. "A" DENOTES FIXTURE TYPE, "2" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL.

LIGHTING FIXTURE WIRED TO CONSTANT-ON OR NORMAL EMERGENCY CIRCUIT

SURFACE OR RECESSED MOUNTED LINEAR LIGHTING FIXTURE

PENDANT MOUNTED LINEAR LIGHTING FIXTURE

ROUND RECESSED LIGHTING FIXTURE

DECORATIVE PENDANT LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE

WALL WASH OR DIRECTIONAL LIGHTING FIXTURE

CEILING MOUNTED ILLUMINATED EXIT SIGN. SINGLE OR DOUBLE FACE, WITH OR WITHOUT ARROWS AS INDICATED ON DRAWINGS

WALL MOUNTED ILLUMINATED EXIT SIGN - SHADING INDICATES FACE PLATE(S)

SELF-CONTAINED EMERGENCY LIGHTING UNIT

REMOTE EMERGENCY LIGHTING HEADS - SINGLE OR DOUBLE AS SHOWN.

POLE MOUNTED SITE LIGHTING FIXTURE

TRACK LIGHTING AND HEADS; LENGTH OF TRACK AND QUANTITY OF HEADS AS SHOWN ON FLOOR PLANS

INV — INVERTER

LIGHTING CONTROL DEVICES

S_a — SINGLE POLE TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

S_{3a} — THREE WAY TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

S_{4a} — FOUR WAY TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

S_{Ka} — KEY OPERATED SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

S_P — SINGLE POLE TOGGLE SWITCH WITH RED PILOT LIGHT.

S_{Da} — DIMMER SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

OS — CEILING MOUNTED OCCUPANCY SENSOR.

VS — CEILING MOUNTED VACANCY SENSOR.

OS — WALL MOUNTED VACANCY SENSOR.

VS — WALL MOUNTED VACANCY SENSOR.

PC — PHOTOCELL.

TC — TIME CLOCK.

RECEPTACLES AND POWER DEVICES

IG 2 48" WP — DUPLEX RECEPTACLE, "2" DENOTES CIRCUIT NUMBER, "48"" DENOTES MOUNTING HEIGHT (18" UNLESS OTHERWISE NOTED), "IG" DENOTES ISOLATED GROUND TYPE DEVICE, "WP" DENOTES WEATHER PROOF COVER

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON ARCHITECTURAL PLANS

DOUBLE DUPLEX RECEPTACLE

DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON THE ARCHITECTURAL PLANS

DUPLEX RECEPTACLE ONE HALF SWITCH CONTROLLED

EWC — DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. PROVIDE DEDICATED 20A/1P GFCI CIRCUIT BREAKER UNLESS NOTED OTHERWISE.

DUPLEX RECEPTACLE FLOOR MOUNTED

L6-30 — SPECIAL PURPOSE RECEPTACLE, "L6-30" DENOTES TYPE, SEE POWER PLANS FOR EXACT TYPES USED

SINGLE RECEPTACLE

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE

CEILING MOUNTED DUPLEX RECEPTACLE

PROVIDE 10 GANG POWER/DATA FLUSH MOUNTED RECESSED FLOOR BOX WIREMOLD EFB10S-OG OR EQUAL WITH ALL REQUIRED ACCESSORIES. PROVIDE (6) DUPLEX RECEPTACLES AND (4) TEL/DATA COVER PLATES. PROVIDE (3) 1"C FOR POWER AND (1) 2"C FOR DATA/A/V WIRING. POWER AND DATA COMPARTMENTS SHALL HAVE PHYSICAL SEPARATION.

POWER DISTRIBUTION SYSTEM

DISTRIBUTION PANEL

PANELBOARD, SURFACE MOUNTED

PANELBOARD, FLUSH MOUNTED

J — JUNCTION BOX, SIZED PER NEC

2 — MOTOR, "2" DENOTES HORSEPOWER

STP — MANUAL MOTOR STARTER WITH THERMAL OVERLOAD. "P" DENOTES PILOT LIGHT

MAGNETIC MOTOR STARTER WITH ENCLOSURE. MINIMUM SIZE NEMA 1

30/3 — NON-FUSED DISCONNECT SWITCH: "30/3" DENOTES 30 AMP/3 POLE SWITCH

30/20/3 — FUSED DISCONNECT SWITCH: "30/20/3" DENOTES 30 AMP/3 POLE SWITCH, 20 AMP FUSES

COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH AND FUSE AS REQUIRED

T1S — DRY-TYPE DISTRIBUTION TRANSFORMER. "1S" DENOTES SIZE.

ATS — AUTOMATIC TRANSFER SWITCH

KT2 — "K" FACTOR DRY TYPE TRANSFORMER. "2" DENOTES SIZE

TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSION

M — METER SOCKET AND UTILITY METER BY UTILITY COMPANY

CB — ENCLOSED CIRCUIT BREAKER

EGB — ELECTRICAL GROUNDING BUSBAR

EMGB — ELECTRICAL MAIN GROUNDING BUSBAR

GROUND

TELECOMMUNICATIONS

TELECOMMUNICATIONS:
E.C. SHALL PROVIDE A DOUBLE GANG BACK BOX WITH SINGLE GANG REDUCER, 1" CONDUIT AND PULLSTRING STUBBED OUT ABOVE ACCESSIBLE CEILING AT ALL LOCATIONS. ALL DEVICES SHALL BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.

TELEPHONE OUTLET

W — TELEPHONE OUTLET MOUNTED 54"A.F.F.

TELEPHONE OUTLET FLOOR MOUNTED

COMPUTER SYSTEM OUTLET

COMPUTER SYSTEM OUTLET, FLOOR MOUNTED

COMBINATION TELEPHONE/DATA OUTLET

C — AV CAMERA SYSTEM OUTLET - MOUNT AT 84" A.F.F. U.N.O.

WIRELESS ACCESS POINT

TGB — TELECOMMUNICATIONS GROUNDING BUSBAR

ABBREVIATIONS

3R	NEMA 3R RATING	JB	JUNCTION BOX
4X	NEMA 4X RATING	KCMIL	ONE THOUSAND CIRCULAR MILS
A/AMP	AMPERES	KVA	KILOVOLT-AMPERES
AC	ALTERNATING CURRENT	KW	KILOWATTS
ADA	AMERICAN WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
AF	AMPERE FRAME	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MD	MOTORIZED DAMPER
AHJ	AUTHORITY HAVING JURISDICTION	MLO	MAIN LUGS ONLY
AIC	AMPERE INTERRUPTING CAPACITY	MOCP	MAXIMUM OVER-CURRENT PROTECTION
AL	ALUMINUM	MH	MANHOLE
AT	AMPERE TRIP	N	NEUTRAL
ARCH	ARCHITECT	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NL	NIGHT LIGHT
BFG	BELOW FINISHED FLOOR	NIC	NOT IN CONTRACT
C	CONDUIT	NO	NORMALLY OPEN
C.T.	CURRENT TRANSFORMER	NTS	NOT TO SCALE
CAT	CATALOG	Ø	PHASE
CATV	CABLE TELEVISION	P	POLE
CB	CIRCUIT BREAKER	PC	PLUMBING CONTRACTOR
CCTV	CLOSED CIRCUIT TV SYSTEM	P.T.	POTENTIAL TRANSFORMER
CD	CANDELA	PVC	POLYVINYL CHLORIDE
CKT	CIRCUIT	SN	SOLID NEUTRAL
CU	COPPER	SM	SURFACE MOUNT
dB	DECIBEL	W	SHUNT TRIP
DC	DIRECT CURRENT	T/D	TEL/DATA
DWG	DRAWING	TEL	TELEPHONE
E	WIRED ON EMERGENCY CIRCUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EC	ELECTRICAL CONTRACTOR	TYP	TYPICAL
EM	EMERGENCY	UG	UNDERGROUND
F	FAHRENHEIT	UL	UNDERWRITERS LABORATORIES
FBA	FINISHED BY ARCHITECT	UNO	UNLESS NOTED OTHERWISE
FLA	FULL LOAD AMPERES	UPS	UNINTERRUPTIBLE POWER SUPPLY
G	GROUND	V	VOLTS
GC	GENERAL CONTRACTOR	VA	VOLT-AMPERE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VFD	VARIABLE FREQUENCY DRIVE
HH	HAND HOLE	VIF	VERIFY IN FIELD
HP	HORSE POWER	W	WATT
HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR	WP	WEATHERPROOF
HZ	HERTZ	XFMR	TRANSFORMER
IG	ISOLATED GROUND		

MISCELLANEOUS

CP — CONTROL PANEL

PB — PULL BOX - SIZED PER NEC FOR CONDUITS ENTERING AND LEAVING AS REQUIRED

TV — CABLE TELEVISION OUTLET, WALL MOUNTED. E.C. SHALL PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING. PROVIDE FACEPLATE WITH TYPE "F" CONNECTOR AT BOX.

P — PUSHBUTTON AND PLATE

C — 120 VOLT RECESSED CLOCK HANGER OUTLET

CENTRAL SYSTEM CLOCK WIRED TO CORRECTIVE CLOCK WIRING SYSTEM 12" DIAMETER UNLESS OTHERWISE NOTED "SP" DENOTES SHATTER GUARD

CS — CLOCK/SPEAKER COMBINATION

MCP — MASTER CLOCK PANEL

I — INTERCOM

MIP — MASTER INTERCOM PANEL

DOOR BELL/BUZZER, LOW VOLTAGE

TL — LOW VOLTAGE TRANSFORMER

MUSHROOM TYPE PUSHBUTTON STATION FOR ACTIVATION OF SHUNT-TRIP DEVICE ON INDICATED CIRCUIT BREAKER

COAXIAL CABLE OUTLET

/ E### — PARTIAL PLAN/DETAIL CALL OUT TAG; TOP NUMBER INDICATES PLAN/DETAIL AND BOTTOM NUMBER INDICATES SHEET CONTAINING PLAN/DETAIL.

DEMOLITION AND REMOVAL WORK

1. REMOVE ALL ELECTRICAL EQUIPMENT, WIRING, AND OTHER ELECTRICAL WORK AS REQUIRED. DISCONNECT LOAD AND LINE END OF CONDUCTORS FEEDING DEVICES WHICH ARE TO BE REMOVED OR ABANDONED; REMOVE CONDUCTORS NO LONGER IN USE. CUT BACK TO FLOOR, WALL, OR CEILING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. REMOVE EXPOSED OR ABANDONED CIRCUITS AND OUTLETS. REMOVE MATERIAL AND EQUIPMENT AND DISPOSE OF AS DIRECTED.
2. WHEREVER IT IS REQUIRED TO DISCONNECT OR REMOVE ANY PART OF AN EXISTING CIRCUIT, IMMEDIATELY RECONNECT THAT CIRCUIT OR REESTABLISH SERVICE IN THE REMAINING PORTION OF THE CIRCUIT." THE WORK SHALL ALSO INCLUDE THE REMOVAL OF MATERIALS AS DIRECTED. PRIOR TO REMOVING EQUIPMENT AND MATERIAL FROM PROJECT SITE, THE BUILDING MANAGER OR OWNER WILL INSPECT AND ADVISE WHICH ITEMS WILL BE STORED.
3. WHERE EXISTING RECEPTACLES AND/OR SWITCHES ARE LOCATED IN COLUMNS AND/OR EXTERIOR WALLS, AND ARE NOT TO BE REUSED, REMOVE RECEPTACLE AND CAP OUTLET BOX. RECEPTACLES SHOWN ON PARTITIONS TO BE REMOVED SHALL HAVE ALL WIRING AND CONDUIT REMOVED AS WELL.
4. WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, OR APPARATUS, THE SAME SHALL BE REPAIRED OR CLOSED UP TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR AND ADJOINING WORK, UNLESS OTHERWISE CALLED FOR.
5. SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FURNITURE, FIXTURES, OR ANY OTHER EQUIPMENT OR APPARATUS, SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.
6. WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT WILL RESULT IN OUTAGES IN AREA NOT TO BE DEMOLISHED, THIS CONTRACTOR SHALL COORDINATE IN ADVANCE AND OBTAIN THE APPROVAL OF THE BUILDING MANAGER OR OWNER.

LIGHTING FIXTURE NOTES

1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
2. COLORS SHALL BE AS SELECTED BY ARCHITECT.
3. COORDINATE EXACT LOCATIONS OF ALL FIXTURES WITH ARCHITECT'S REFLECTED CEILING PLAN, ELEVATIONS, SECTIONS, AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
4. E.C. SHALL ENSURE THAT ALL PROPOSED SWITCHES AND DIMMER SWITCHES ARE COMPATIBLE WITH THE LIGHT FIXTURE(S) INDICATED TO BE CONTROLLED. INSTALL ALL SWITCHES AND DIMMER SWITCHES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
5. ALL SELF CONTAINED EMERGENCY LIGHTING UNITS AND EXIT LIGHTING IN THE BUILDING SHALL BE CONNECTED TO THE NEAREST UN-SWITCHED LIGHTING CIRCUIT SERVING THE AREA WITH 2#12 & 1#12G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.
6. LOCATIONS OF ALL SWITCHES SHALL COMPLY WITH ADA CRITERIA.
7. WHERE SWITCH CONTROLS ("a", "b", ETC.) ARE INDICATED, WIRE THE SWITCHES TO THE RESPECTIVE LIGHT FIXTURE. IF A FIXTURE HAS TWO OR MORE SWITCH DESIGNATIONS, WIRE FIXTURE SO THAT IT WILL BE CONTROLLED BY THE SWITCHES INDICATED.
8. WIRE EXIT SIGNS TO LIGHTING CIRCUIT SERVING THE AREA AHEAD OF ALL CONTROLS.
9. WIRE NIGHT LIGHTING FIXTURES FOR 24/7 OPERATION VIA UN-SWITCHED CIRCUIT AS INDICATED.
10. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDINGS STRUCTURAL FRAMING AS REQUIRED TO SUPPORT ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.

DEMOLITION LEGEND

ETR — "ETR" DENOTES EXISTING ELECTRICAL DEVICE WHICH IS TO REMAIN.

ETD — "ETD" DENOTES EXISTING ELECTRICAL DEVICE WHICH IS TO BE DEMOLISHED. PULL BACK WIRING AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE.

ETRL — "ETRL" DENOTES EXISTING ELECTRICAL DEVICE TO BE DISCONNECTED AND RELOCATED. EXISTING CIRCUIT SHALL BE EXTENDED AS REQUIRED TO NEW LOCATION OF EXISTING ELECTRICAL DEVICE.

RL — "RL" DENOTES NEW LOCATION OF RELOCATED EXISTING ELECTRICAL DEVICE.

ETRP — "ETRP" DENOTES EXISTING DEVICE TO BE REMOVED AND REPLACED. EXISTING CIRCUIT/WIRING AND BACK BOX SHALL REMAIN. NEW DEVICE SHALL BE LOCATED IN PLACE.

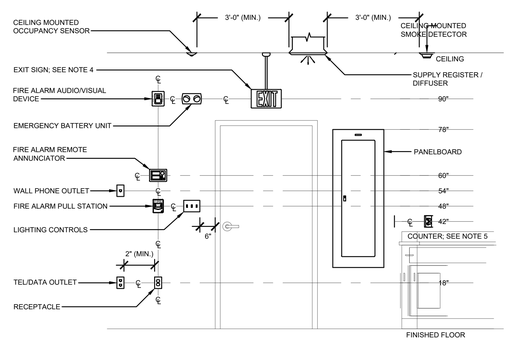
RP — "RP" DENOTES REPLACED DEVICE.

BRANCH CIRCUIT WIRING NOTES

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
5. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
6. PROVIDE A NEUTRAL CONDUCTOR TO ALL NEW LIGHTING SWITCH BOXES PER NEC ARTICLE 404.2.
7. IN ALL NON-DWELLING TYPE OCCUPANCIES, ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC ARTICLE 210.8(B)(2).
8. PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL AREAS REQUIRED BY NEC ARTICLE 406.12 (DWELLING UNITS), 406.13 (GUEST ROOMS) AND 406.14 (CHILDCARE FACILITIES).
9. ALL 15A OR 20A, 120V BRANCH CIRCUITS IN DWELLING UNITS SUPPLYING OUTLETS (INCLUDING SMOKE ALARMS) IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS MUST BE PROTECTED BY A LISTED AFCI DEVICE OF THE COMBINATION TYPE PER NEC ARTICLE 210.12(A).
10. ALL 15A AND 20A, 125V SINGLE PHASE RECEPTACLES IN DWELLING UNITS SHALL BE GFCI PROTECTED PER NEC ARTICLE 210.8(A).
11. ALL 120-VOLT, SINGLE-PHASE, 15 AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE ARC-FAULT PROTECTED PER NEC ARTICLE 210.12.
12. ALL ARC FAULT CIRCUITS IN ALL LIVING UNITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL PER CIRCUIT.
13. WHERE EXISTING SWITCHES AND RECEPTACLES ARE INDICATED TO REMAIN, THIS CONTRACTOR SHALL REPLACE SAID DEVICE(S) AND DEVICE PLATE(S) WITH NEW TO MATCH THE NEW CONSTRUCTION. WHERE THEY ARE INDICATED AS RELOCATED, EXTEND BRANCH CIRCUIT WIRING TO NEW LOCATION AND PROVIDE NEW DEVICE AND DEVICE PLATE TO MATCH NEW CONSTRUCTION.

MECHANICAL/PLUMBING EQUIPMENT TAG

RTU 1 — MECHANICAL/PLUMBING EQUIPMENT TAG. "RTU" DENOTES EQUIPMENT TYPE, "1" DENOTES EQUIPMENT NUMBER. REFER TO "SCHEDULE FOR MECHANICAL/PLUMBING EQUIPMENT" FOR ALL CIRCUIT INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUIT WIRING, CONDUIT SIZE, VOLTAGE, PHASE, DISCONNECT SWITCH, AND CIRCUIT BREAKER. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT EQUIPMENT LOCATIONS AND EQUIPMENT TYPE ABBREVIATIONS.



NOTES:
1. DEVICES SHALL BE INSTALLED ON ONE COMMON VERTICAL CENTERLINE.
2. DEVICES SHALL BE INSTALLED AT HEIGHTS INDICATED WHEREVER APPLICABLE.
3. LOCATIONS OF EQUIPMENT AND DEVICES AS INDICATED ON THE DRAWINGS ARE APPROXIMATE. DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN IN ORDER TO AVOID INTERFERENCES WITH EQUIPMENT, FURNITURE, WINDOWS, CASEWORK, ETC.
4. PROVIDE PENDANT MOUNTING KIT FOR CEILING MOUNTED EXIT SIGNS WHERE CEILING EXCEEDS 8'-6".
5. RECEPTACLES AND TEL/DATA OUTLETS ABOVE COUNTERTOPS SHALL BE MOUNTED 42" TO CENTERLINE OR 6" ABOVE COUNTERTOP.

X — TYPICAL DEVICE MOUNTING HEIGHTS DETAIL — NTS

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RENOVATIONS TO ALGER HALL AND CENTER
CYBER COMMAND

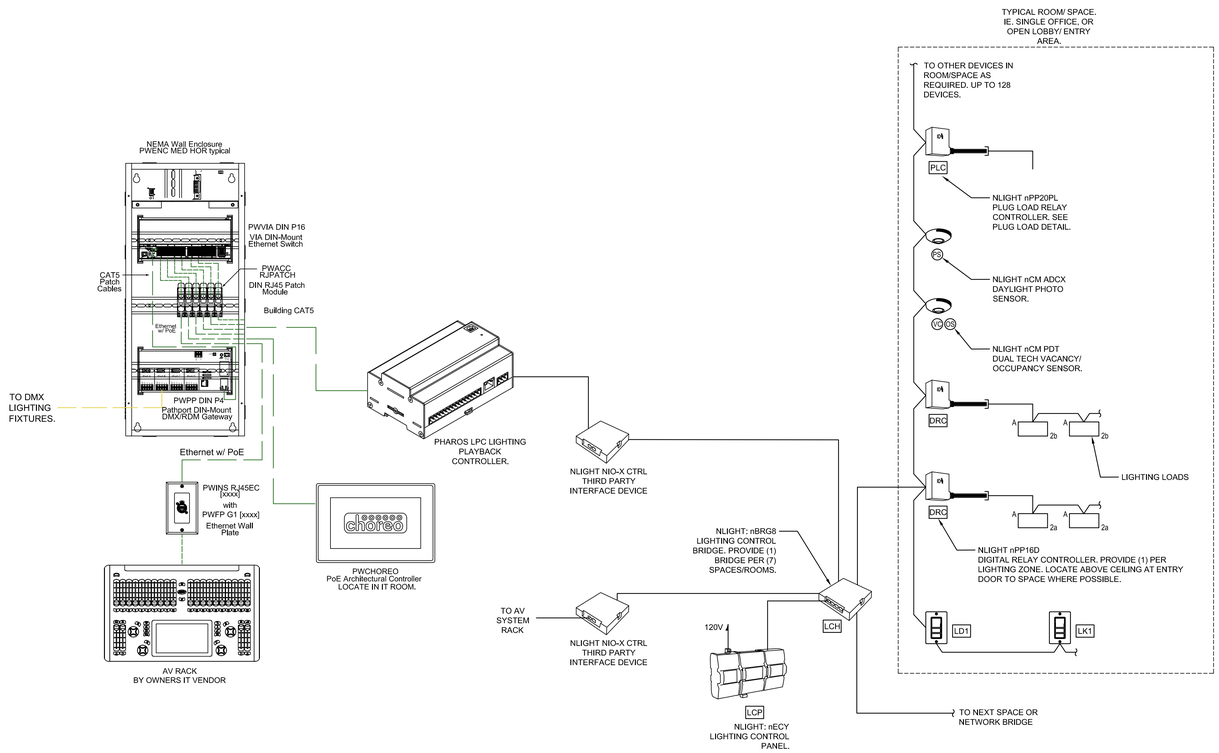
Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

Drawing Title
ELECTRICAL
LEGEND, NOTES, & FIXTURE SCHEDULE

E0.01



LIGHTING CONTROL SYSTEM NOTES:

1. BASIS OF DESIGN IS THE NLIGHT WIRED CONTROL SYSTEM. LIGHTING CONTROL SYSTEM RISER DIAGRAM IS FOR INTENT ONLY. ALL COMPONENTS FOR A COMPLETE AND OPERATIONAL LIGHTING CONTROL SYSTEM SHALL BE PROVIDED.
2. PROVIDE MINIMUM OF 1 SYSTEM CONNECTED LOCAL DIMMING CONTROL STATION PER ROOM FOR MANUAL CONTROL OF LIGHTING IN ALL SPACES EXCEPT IN ELECTRICAL ROOM. ELECTRICAL ROOM SHALL HAVE LINE VOLTAGE ON/OFF CONTROL ONLY.
3. COLORS OF ALL DEVICES SHALL BE AS SELECTED BY ARCHITECT.
4. EXTERIOR BUILDING MOUNTED LIGHTING SHALL BE CONTROLLED VIA SCHEDULING TO BE COORDINATED WITH OWNER BASED ON ZONING SHOWN ON FLOOR PLANS. AT A MINIMUM NO MORE THAN ONE SIDE OF THE BUILDING SHALL BE ZONED TOGETHER.
5. ALL AREAS SEPARATED BY WALLS OR DOORS SHALL BE CONSIDERED AN INDEPENDENT SPACE AND PROVIDED WITH A SEPARATE CONNECTION TO THE LIGHTING CONTROL PANEL VIA A LIGHTING CONTROL BRIDGE.

1 LIGHTING CONTROL RISER DIAGRAM

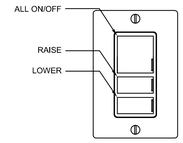
SCALE:N.T.S.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURE & CATALOG NUMBER	LED				REMARKS
			MOUNTING	VOLT	WATTS	LUMENS	
LS2	2' LINEAR SURFACE MOUNTED LUMINAIRE	CREE #LS SERIES	SURFACE	UNV			
LS4	4' LINEAR SURFACE MOUNTED LUMINAIRE	CREE #LS SERIES	SURFACE	UNV			
LT1	CUSTOM CORNER T-BAR MOUNTED LUMINAIRE	JLC TECH #TBAR RGBW SERIES	T-BAR	UNV			
LT2	CUSTOM CORNER T-BAR MOUNTED LUMINAIRE	JLC TECH #TBAR RGBW SERIES	T-BAR	UNV			
LR2	2' LINEAR RECESSED LUMINAIRE	MERCURY #MLS4 SERIES	RECESSED	UNV			
LR2E	2' LINEAR RECESSED LUMINAIRE WITH EMERGENCY DRIVER	MERCURY #MLS4 SERIES	RECESSED	UNV			
LC1	LED TAPE LIGHT WITH CHANNEL MOUNTED IN FIXED CASEWORK	ACOLYTE #AS1 CHANNEL SERIES					REFER TO ARCHITECTURAL DETAIL FOR INSTALLATION AND MOUNTING.
PC1	4" SQUARE PENDANT DOWNLIGHT	GOTHAM #IVO 4" SQUARE PENDANT SERIES	RECESSED	UNV			
PC1E	4" SQUARE PENDANT DOWNLIGHT WITH EMERGENCY DRIVER	GOTHAM #IVO 4" SQUARE PENDANT SERIES	RECESSED	UNV			
RD1	4" SQUARE RECESSED DOWNLIGHT	GOTHAM #EVO SERIES	RECESSED	UNV			
	LED EXIT SIGN WITH BATTERY BACK-UP	EMERGILITE #W-PREM-DN-R	LED	277	2.8	2.8	PROVIDE CEILING MOUNT TO MATCH EXISTING. PROVIDE FACE QTY. AND ARROWS PER FLOOR PLANS.

LIGHTING FIXTURE NOTES:

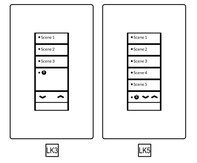
1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
2. COLORS SHALL BE AS SELECTED BY ARCHITECT.
3. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. E.C. SHALL ENSURE THAT ALL PROPOSED SWITCHES AND DIMMER SWITCHES ARE COMPATIBLE WITH THE LIGHT FIXTURE(S) INDICATED TO BE CONTROLLED. INSTALL ALL SWITCHES AND DIMMER SWITCHES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.



TYPICAL LOCAL DIMMING STATION DETAIL: LD1

NOTES:

1. BASIS OF DESIGN: NLIGHT NPOD#MA SERIES
2. COORDINATE ENGRAVING WITH SCENE SELECTION BY OWNER AND ARCHITECT PRIOR TO ORDERING. PROGRAM DEVICE ACCORDING TO SCENE SELECTION.
3. COORDINATE COLOR BY OWNER AND ARCHITECT PRIOR TO ORDERING.
4. WHERE THERE ARE MULTIPLE DEVICES, COMBINE UNDER SINGLE FACEPLATE.
5. NUMBER IN SYMBOL SHALL INDICATE NUMBER OF DIMMING STATIONS GANGED UNDER SINGLE COVER PLATE, I.E. LD3 SHALL INDICATE (3) CONTROL STATIONS WITH SINGLE COVER PLATE.



TYPICAL KEYPAD DETAIL: LK3 LK5

NOTES:

1. BASIS OF DESIGN: nPOD#MA SERIES
   1.a. LK3 - PROVIDE 3 BUTTON KEYPAD
   1.b. LK5 - PROVIDE 5 BUTTON KEYPAD
   1.c. (BUTTON QTY NOTED INDEPENDANT OF ON/OFF/DIM)
2. COORDINATE ENGRAVING WITH SCENE SELECTION BY OWNER AND ARCHITECT PRIOR TO ORDERING. PROGRAM DEVICE ACCORDING TO SCENE SELECTION.
3. COORDINATE COLOR BY OWNER AND ARCHITECT PRIOR TO ORDERING.
4. WHERE THERE ARE MULTIPLE DEVICES, COMBINE UNDER SINGLE FACEPLATE.

2 CONTROL STATION DETAILS

SCALE:N.T.S.

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E0.02

SCHEDULE OF MECHANICAL AND PLUMBING EQUIPMENT (1) (2)

TAG	DESCRIPTION	EQUIPMENT CHARACTERISTICS							PANEL /CIRCUIT	CIRCUIT BREAKER	FEEDER AND CONDUIT	TYPE OF CONNECTION REQUIRED												NOTES
		FLA	MCA	MOCP	HP	KW	VOLTS	Ø				∿	CP	VFD	Ⓢ	φ	♀	ST	⊠	⧄	☐	DISCONNECT CONFIGURATION	WP	
ACC-1	ASHP - ROOF		45	80			208	1	MDP-11	80A/2P	3#3&#8G, 1 1/4"C	✓								✓			✓	
ACC-2	ASHP - ROOF		36	70			208	1	MDP-12	70A/2P	3#4&#8G, 1 1/4"C	✓								✓			✓	
ACC-3	ASHP - ROOF			25			208	1	MDP-13	25A/2P	3#10&#10G, 3/4"C	✓								✓			✓	(3)
AC-3	ASHP - INDOOR						208	1	FROM ACC-3	-	2#12&#12G, 3/4"C	✓						✓						(3) (4)
AC-1-1	ASHP-INDOOR		.35				208	1	2P102-84	20A/2P	3#12&#12G, 3/4"C	✓						✓						
AC-1-1	ASHP-INDOOR		.35				208	1	2P102-84	20A/2P	3#12&#12G, 3/4"C	✓						✓						
AC-1-1	ASHP-INDOOR		.35				208	1	2P102-84	20A/2P	3#12&#12G, 3/4"C	✓						✓						
AC-1-1	ASHP-INDOOR		.35				208	1	2P102-84	20A/2P	3#12&#12G, 3/4"C	✓						✓						
AC-2-1	ASHP-INDOOR		.35				208	1	2P102-84	20A/2P	3#12&#12G, 3/4"C	✓						✓						
AC-2-2	ASHP-INDOOR		.35				208	1	2P102-84	20A/2P	3#12&#12G, 3/4"C	✓						✓						
AC-2-3	ASHP-INDOOR		.35				208	1	2P102-84	20A/2P	3#12&#12G, 3/4"C	✓						✓						
ERV-1	ENERGY RECOVERY						208	3	2P102-84	35A/3P	4#8&#10G, 3/4"C	✓						✓						

(#) KEYED NOTES:

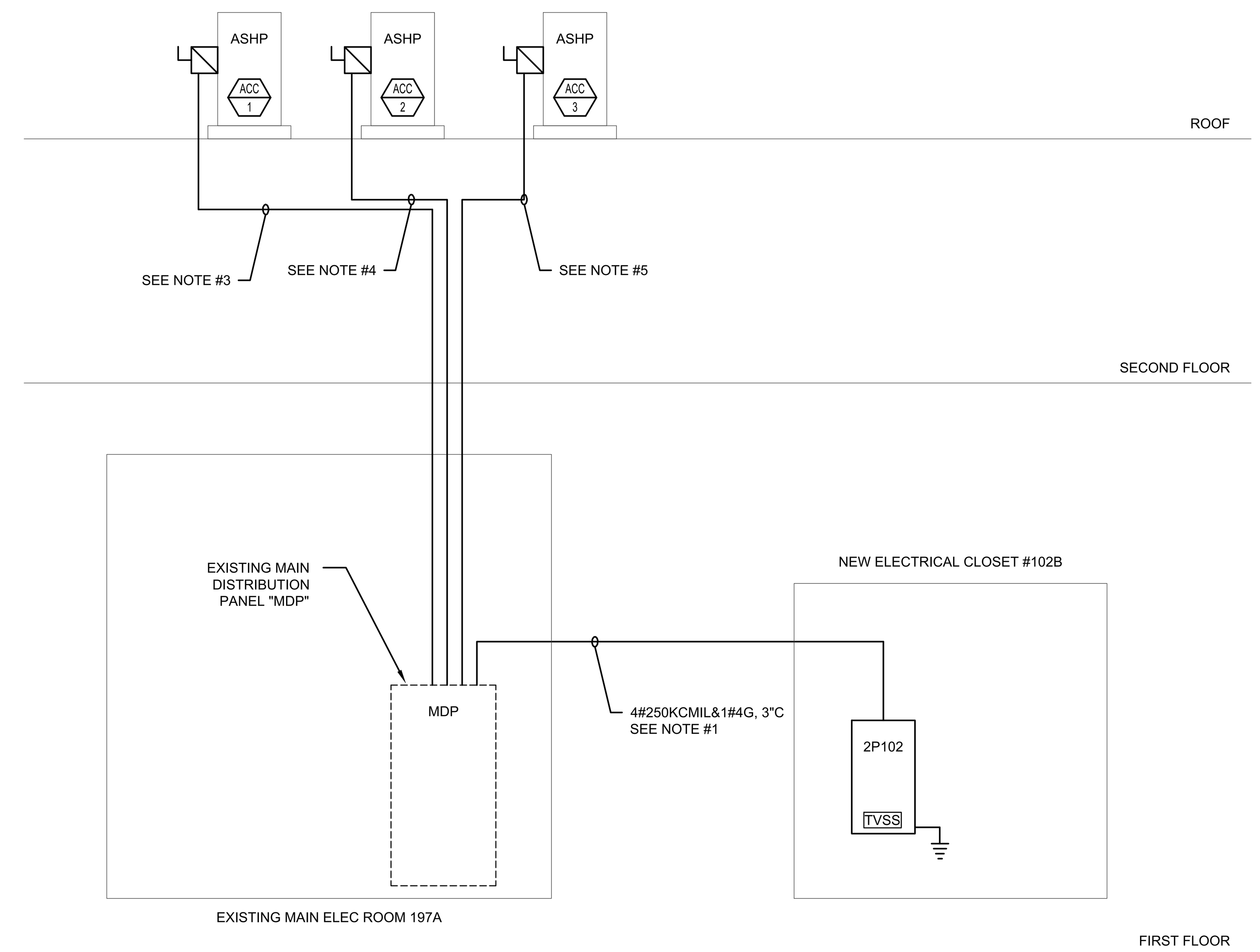
1. COORDINATE ALL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS.
2. COORDINATE ALL FINAL CONNECTIONS WITH APPROVED SHOP DRAWINGS AND MANUFACTURER RECOMMENDATIONS.
3. INDOOR UNIT SHALL BE POWERED VIA OUTDOOR UNIT. PROVIDE 2#12, #12G, 3/4"C FROM OUTDOOR UNIT TO INDOOR UNIT. PROVIDE THERMAL SWITCH FOR LOCAL DISCONNECT UNLESS NOT PERMITTED BY MANUFACTURER.
4. PROVIDE CONNECTION TO CONDENSATE PUMP. CONNECT TO SAME CIRCUIT AS ASSOCIATED EQUIPMENT.

PANELBOARD SCHEDULE

PANEL DESIGNATION	VOLTS	PHASE	WIRES	MAINS MLO: MAIN LUGS ONLY MCB: MAIN CKT. BKR. BUS SIZE	OVERCURRENT DEVICES FRAME AMPS	OVERCURRENT DEVICES TRIP AMPS	BKR. POLES	BRANCH DEVICES BREAKER AMPS 15	20	25	30	40	60	70	80	TOTAL POLES *	MOUNTING S: SURFACE F: FLUSH	GROUND BUS	ADDITIONAL BRANCH C.B.'S
(2) (1) 2P102	120/208	3	4	250	250	250	1		65		1					84	S	✓	
							2		3	1	3								
							3						1						

(1) 65K AIC, 1 TUB, TALLER IN HEIGHT

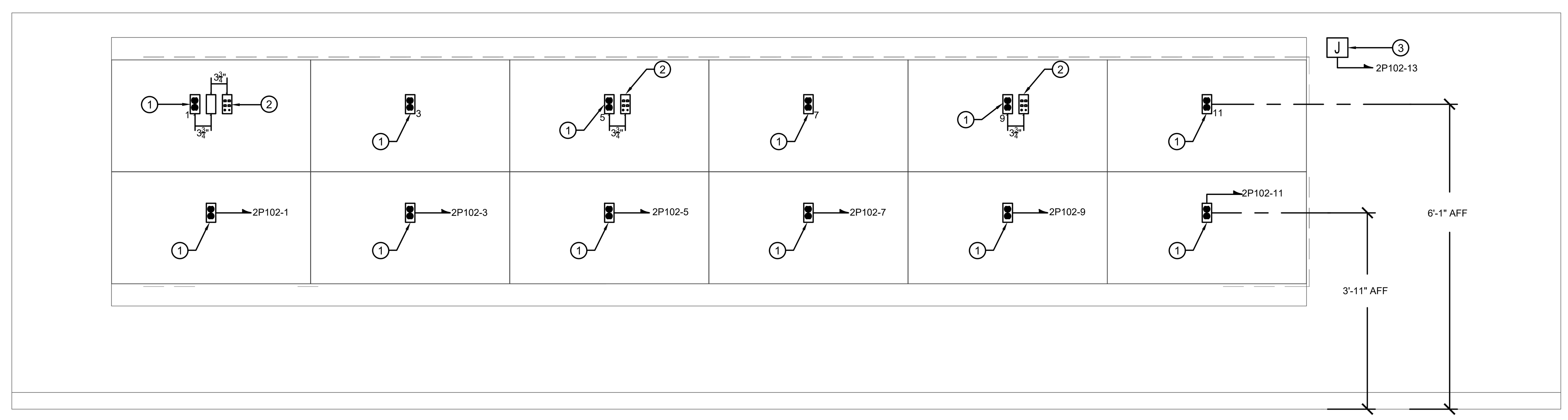
(2) "PROVIDE 200% RATED NEUTRAL BUS"



1 / E0.03 PARTIAL ONE-LINE RISER DIAGRAM
SCALE: N.T.S.

NOTES FOR THE ELECTRICAL POWER RISER DIAGRAMS:

1. PROVIDE NEW 250A/3P CIRCUIT BREAKER IN EXISTING MAIN DISTRIBUTION PANEL "MDP".
2. NEW PANELBOARD SHALL BE ELECTRONIC-GRADE TYPE WITH INTEGRAL SURGE PROTECTIVE DEVICE.
3. PROVIDE NEW 80A/2P CIRCUIT BREAKER IN EXISTING MAIN DISTRIBUTION PANEL "MDP".
4. PROVIDE NEW 70A/2P CIRCUIT BREAKER IN EXISTING MAIN DISTRIBUTION PANEL "MDP".
5. PROVIDE NEW 25A/2P CIRCUIT BREAKER IN EXISTING MAIN DISTRIBUTION PANEL "MDP".
6. ALL NEW CIRCUIT BREAKERS IN EXISTING EQUIPMENT SHALL BE LISTED AND LABELED FOR USE WITH EXISTING EQUIPMENT.
7. COORDINATE ALL SHUTDOWNS WITH RIC FACILITIES AND RIC OPM TO MINIMIZE ANY SHUTDOWN DURATION.



2 / E0.03 VIDEO WALL ELEVATION DETAIL
SCALE: N.T.S.

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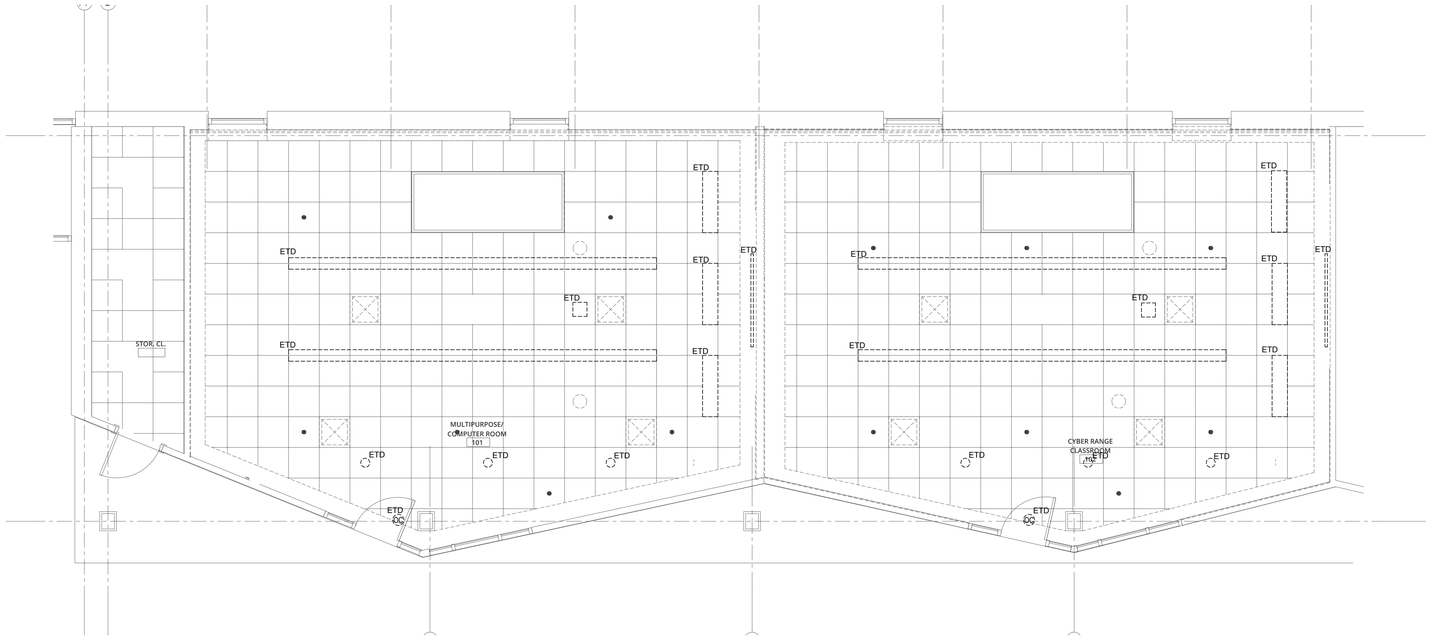
RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

Drawing Title
ELECTRICAL
DETAILS, SCHEDULES, & RISER DIAGRAMS

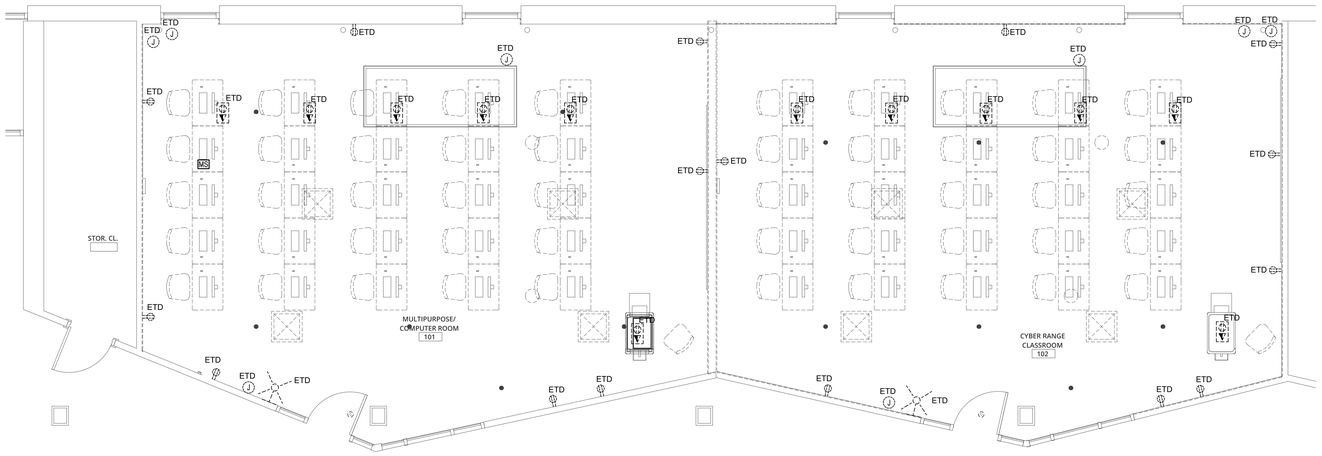


1 ED1.00 ENLARGED FIRST FLOOR LIGHTING DEMOLITION PLAN

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

GENERAL LIGHTING DEMOLITION NOTES:

1. ALL LIGHTING FIXTURES, CONTROL DEVICES, AND SWITCHING SHALL BE DEMOLISHED. ALL WIRING SHALL BE REMOVED BACK TO PANEL LOCATION.



2 ED1.00 ENLARGED FIRST FLOOR ELECTRICAL DEMOLITION PLAN

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

GENERAL POWER DEMOLITION NOTES:

1. ALL RECEPTACLES, DATA OUTLETS, AND ELECTRICAL FIXTURES SHALL BE DEMOLISHED. ALL FIRE ALARM DEVICES SHALL BE DEMOLISHED. ALL WIRING SHALL BE REMOVED BACK TO PANEL LOCATION.
2. ABOVE CEILING HVAC UNITS SHALL BE DISCONNECTED AND MADE SAFE FOR REMOVAL BY HVAC. ALL WIRING SHALL BE REMOVED BACK TO PANEL LOCATION.

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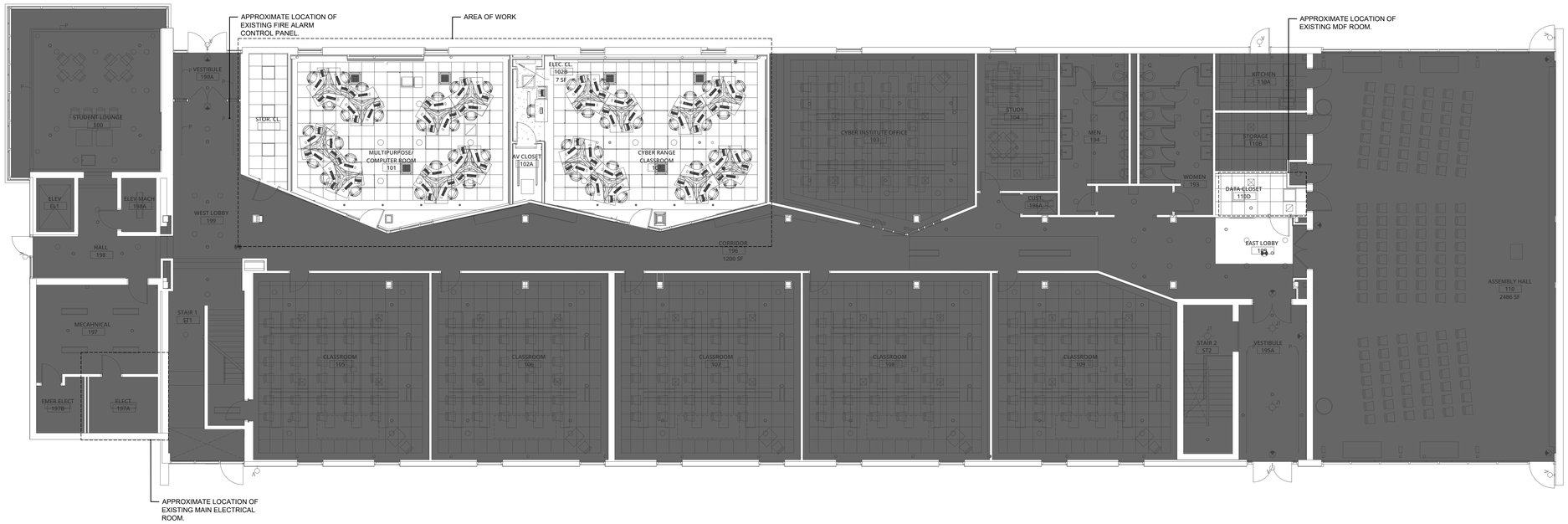
Drawing Title
ELECTRICAL
ENLARGED FIRST FLOOR
DEMOLITION PLANS

ED1.00



1 E1.00 FIRST FLOOR OVERALL PLAN
SCALE: 1/8" = 1'-0"

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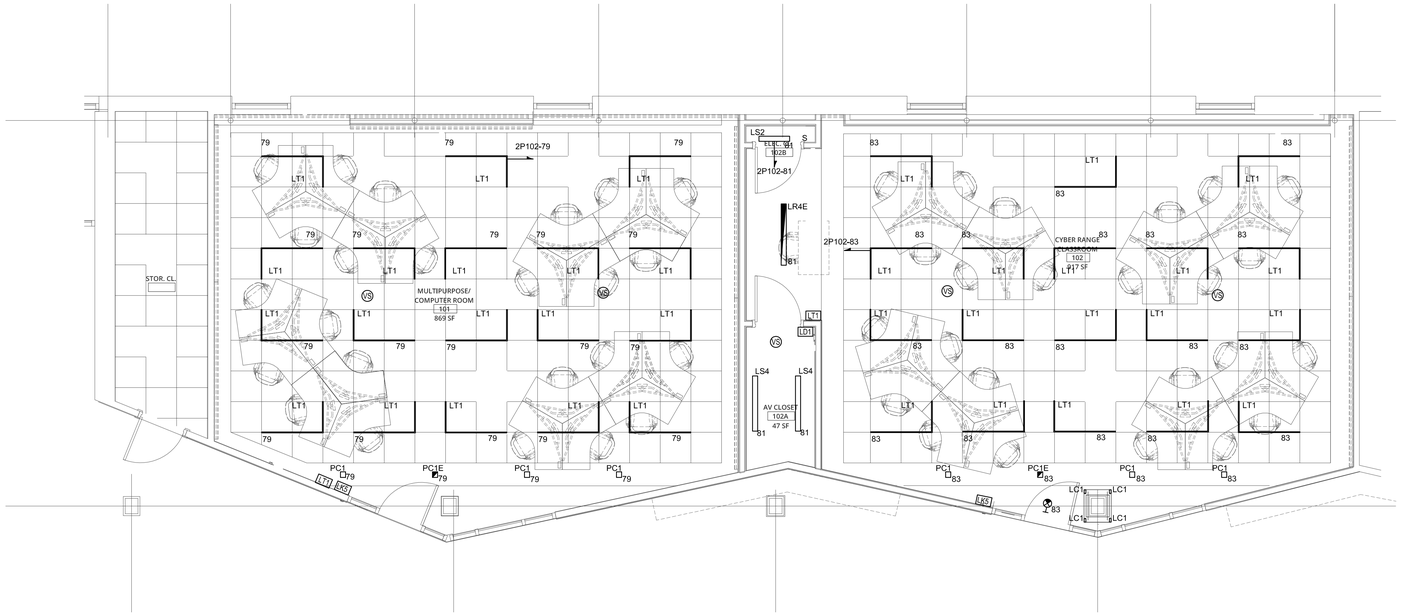
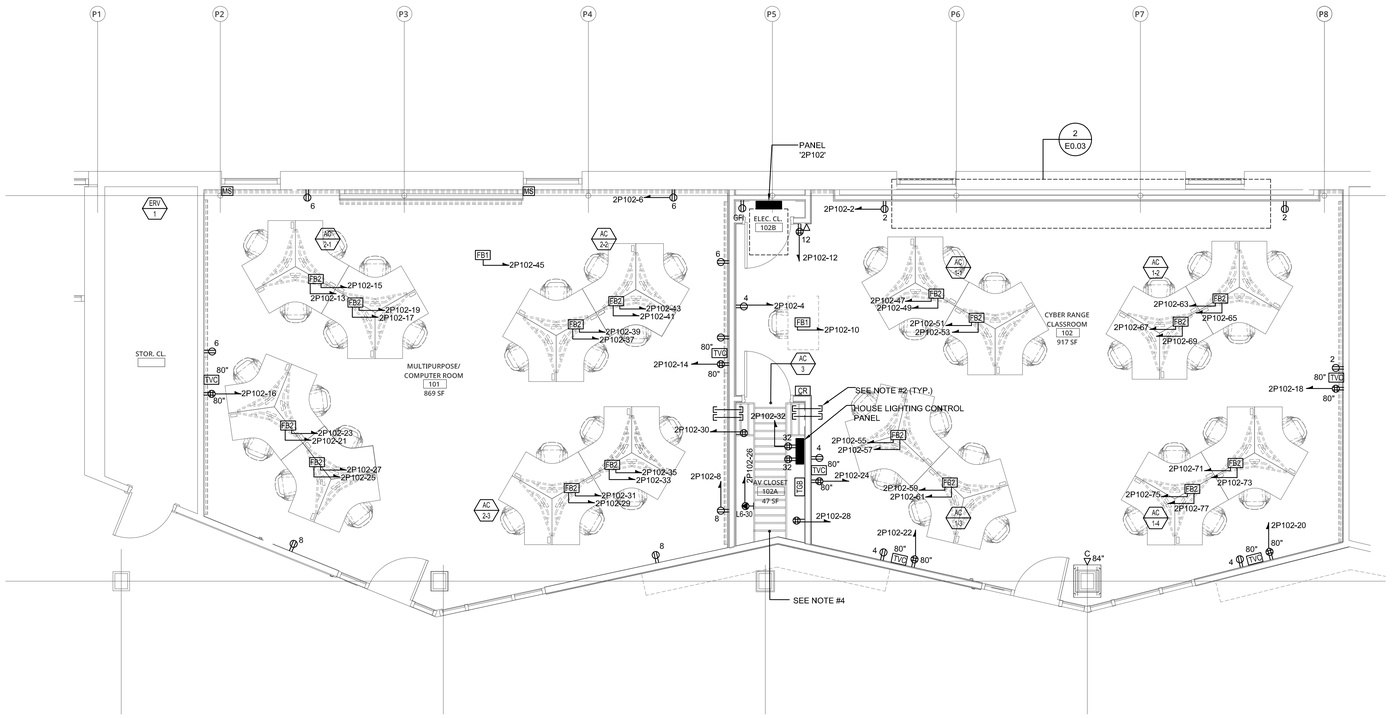
FIRST FLOOR OVERALL PLAN

E1.00



1 E1.01 ENLARGED FIRST FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"



2 E1.01 ENLARGED FIRST FLOOR POWER PLAN
SCALE: 1/4" = 1'-0"

GENERAL POWER NOTES:

1. ALL RECEPTACLES IN MULTIPURPOSE ROOM AND CLASSROOM SHALL BE SPLIT TAB PLUG LOAD CONTROL TYPE. REFER TO PLUG LOAD CONTROL DETAIL.
2. PROVIDE 4" CONDUIT SLEEVE TO ABOVE ACCESSIBLE CEILING. COORDINATE REQUIREMENTS AND LOCATIONS WITH AV AND TECHNOLOGY CONTRACTORS.
3. ALL RECEPTACLES INSTALLED IN ROOMS 101 AND 102 SHALL BE TAMPER-RESISTANT TYPE.
4. PROVIDE 12"W X 4"H X 6" RUNG CABLE TRAY MOUNTED 6" ABOVE AV RACK OR HEIGHT AS COORDINATED WITH IBM AND OWNERS IT.

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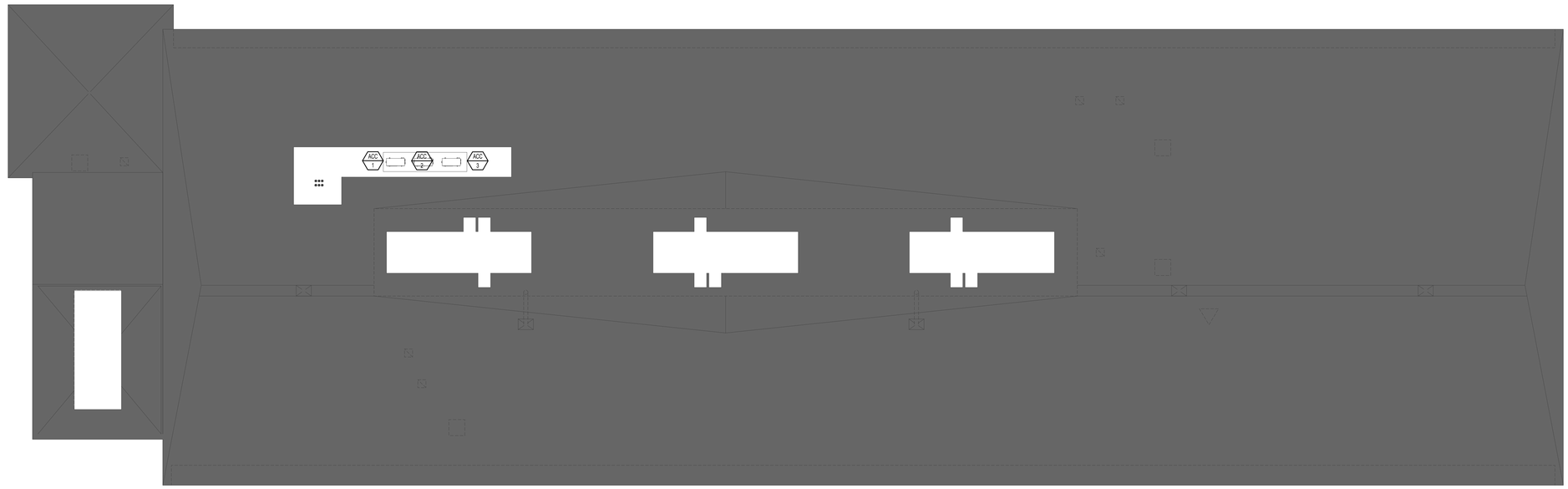
Drawing Title
ELECTRICAL
ENLARGED FIRST FLOOR PLANS

E1.01



1 E1.00 FIRST FLOOR OVERALL PLAN
SCALE: 1/8" = 1'-0"

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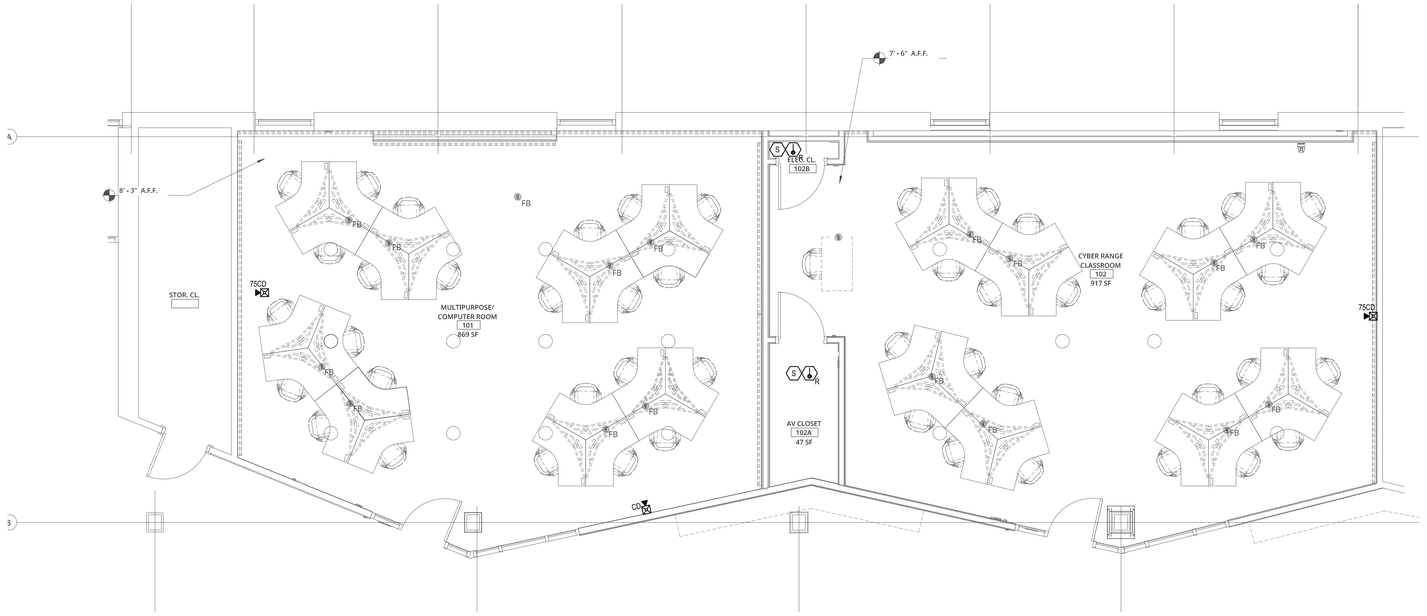
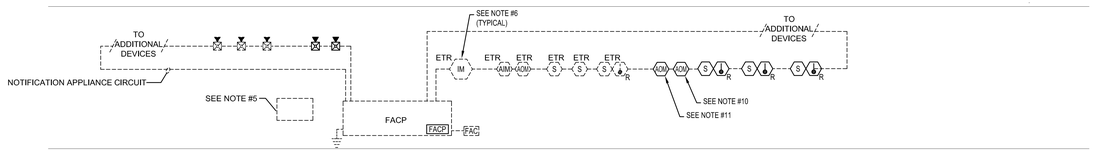
Drawing Title
ELECTRICAL ROOF OVERALL PLAN

E1.02



2 FA1.00 **ENLARGED FIRST FLOOR FIRE ALARM PLAN**

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



1 FA1.00 **FIRE ALARM RISER SYSTEM DIAGRAM**

SCALE: N.T.S.

GENERAL FIRE ALARM NOTES:

1. ALL DEVICES SHALL BE CONNECTED TO EXISTING FIRE ALARM CONTROL PANEL. DEVICES SHALL BE UL LISTED AND LABELED FOR USE IN EXISTING CONTROL PANEL.
2. ALL WIRING SHALL BE CLASS "A"

NOTES FOR FIRE ALARM SYSTEM RISER DIAGRAM:

1. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES. NOT ALL DEVICES AND APPLIANCES ARE INDICATED ON THE FIRE ALARM RISER DIAGRAM.
2. THE FIRE ALARM SYSTEM SHALL CONFORM WITH THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT. SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL FIRE DEPARTMENT FOR APPROVAL.
3. ALL FIRE ALARM WIRING SHALL BE CLASS "A" PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE INSTALLED IN A MINIMUM 3/4" EMT CONDUIT.
4. ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF NFPA, STATE, AND LOCAL BUILDING CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN UPDATED NON-ILLUMINATED GRAPHIC MAP. GRAPHIC MAP SHALL INCLUDE ALL EXISTING DEVICES AND NEW DEVICES LABELED WITH ADDRESS NUMBERS. THE EXACT LAYOUT OF NON-ILLUMINATED GRAPHIC MAP SHALL BE APPROVED BY THE LOCAL FIRE DEPARTMENT.
6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ISOLATION MODULE. (NOTE: PROVIDE A MINIMUM OF ONE (1) ISOLATION MODULE PER FLOOR AND ONE (1) ISOLATION MODULE PER EVERY TWENTY FIVE (25) DEVICES.)
7. EXISTING FIRE ALARM CONTROL, ANNUNCIATION, AND COMMUNICATION EQUIPMENT TO REMAIN. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING ALL RENOVATION. COORDINATE ANY REMOVAL OF EXISTING DEVICES AND TEMPORARY COVERAGE REQUIREMENTS DURING CONSTRUCTION WITH FIRE DEPARTMENT.
8. PROVIDE TESTING OF COMPLETE EXISTING FIRE ALARM SYSTEM PRIOR TO START OF ANY WORK AND NOTE ANY DEFICIENCIES. PROVIDE PROGRAMMING FOR ALL NEW DEVICES. PROVIDE TESTING OF COMPLETE SYSTEM UPON COMPLETION WITH EXISTING SYSTEM MANUFACTURER AND FIRE DEPARTMENT. FINAL TESTING SHALL DOCUMENT ALL DEVICES, LOCATION OF DEVICE, AND INDICATE WHETHER THEY ARE NEW OR EXISTING.
9. ALL NEW DEVICES SHALL BE LISTED FOR USE WITH THE EXISTING FIRE ALARM CONTROL PANEL.
10. PROVIDE ADDRESSABLE OUTPUT MODULE FOR SHUTDOWN OF AV SYSTEMS. COORDINATE WITH AV VENDOR.
11. PROVIDE ADDRESSIBLE OUTPUT MODULE FOR OVERRIDE OF LIGHTING SYSTEM. COORDINATE WITH LIGHTING CONTROL MANUFACTURER.

FIRE ALARM SYSTEM

F	MANUAL PULL STATION MOUNTED 48" AFF
RI	REMOTE ALARM INDICATOR
FAA	FIRE ALARM ANNUNCIATOR
FAC	FIRE ALARM COMMUNICATOR
BATT	BATTERY CABINET
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
AIM	ADDRESSABLE INPUT MONITOR MODULE
AOM	ADDRESSABLE OUTPUT CONTROL MODULE
PS	NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY SIZE PER MANUFACTURERS SYSTEM CALCULATIONS.
	HEAT DETECTOR/SENSOR ORIENTATION NOT TO BE CHANGED.
S	SMOKE DETECTOR
S R CO	SMOKE/HEAT DETECTOR/CARBON MONOXIDE DETECTOR
S R	SMOKE/HEAT DETECTOR/SENSOR COMBINATION
S	SMOKE DETECTOR/SENSOR FOR DUCT
CD 1W	COMBINATION SPEAKER/VISIBLE W=WATTAGE CD= CANDELA RATING/SETTING
.5W S	SPEAKER ONLY, WALL MOUNT- DENOTE WATTAGE TAP
CD	VISIBLE ONLY (STROBE) - CEILING MOUNT CD=CANDELA RATING/SETTING
CD	VISIBLE ONLY (STROBE) - WALL MOUNT CD=CANDELA RATING/SETTING
FS	FLOW SWITCH (WATER), FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.
TS	TAMPER SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.

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30 AUGUST 2024

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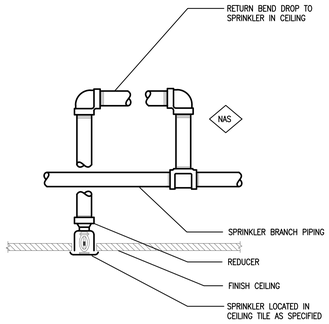
Drawing Title
FIRE ALARM
ENLARGED FIRST FLOOR PLANS

FA1.00

FIRE PROTECTION LEGEND

———		NEW WORK PIPING (INDICATED AS HEAVY LINE)
———	ETR	EXISTING TO REMAIN (INDICATED AS LIGHT LINE)
—X—X—X—	RE	EXISTING PIPING TO BE REMOVED
	CTE	CONNECT TO EXISTING
	C	CONCEALED WET SPRINKLER



1 TYPICAL CONCEALED SPRINKLER RETURN BEND DROP

NTS

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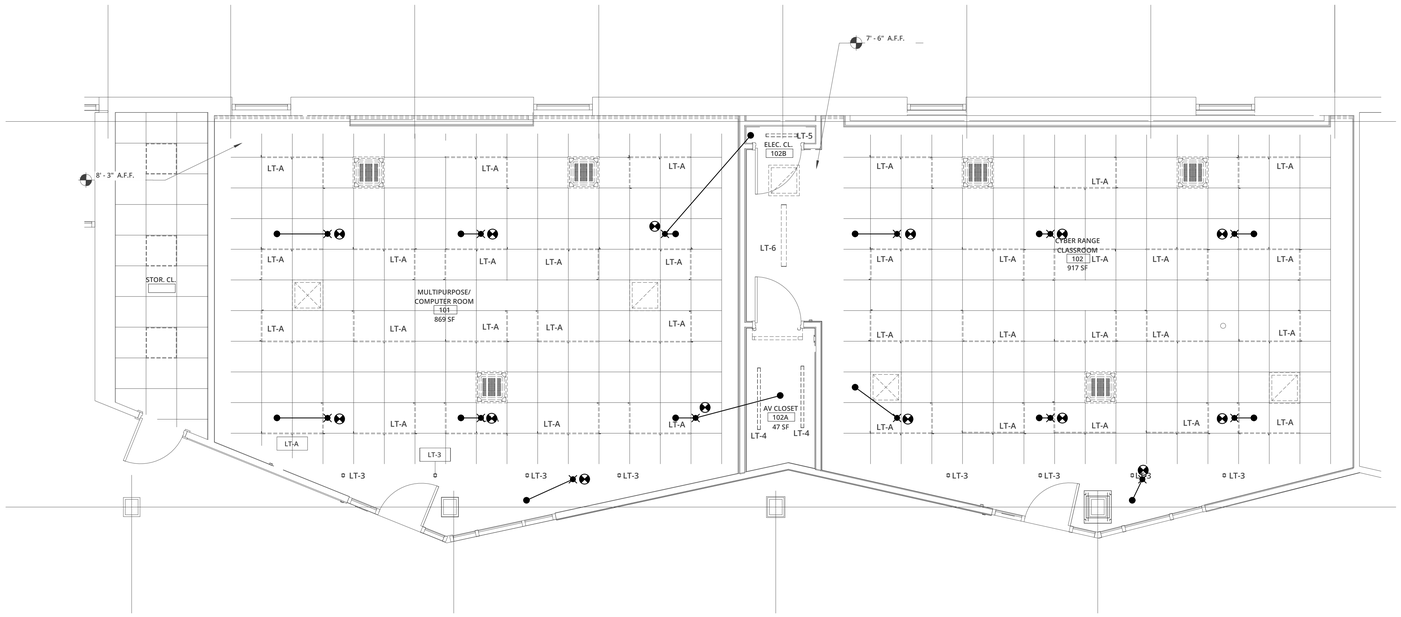
30 AUGUST 2024

Revisions

Drawing Title
FIRE PROTECTION LEGEND, DETAILS, AND SPECIFICATIONS

FP0.01



1 FP1.00 **ENLARGED FIRST FLOOR FIRE PROTECTION PLAN**
SCALE: 1/4" = 1'-0"

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FIRE PROTECTION
ENLARGED FIRST FLOOR PLAN

FP1.00

TECHNOLOGY LEGEND AND ABBREVIATIONS

ABBREVIATIONS

℄	CENTERLINE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATR	ALL THREADED ROD
AWG	AMERICAN WIRE GAUGE
BFBI	BUILDER FURNISHED - BUILDER INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFD	CEMENT-FIBER DUCT
CL	CLOSET
CLG	CEILING
COAX	COAXIAL CABLE
CT	CABLE TRAY
CTR	CENTER
DIA	DIAMETER
DGP	DATA GATHERING PANEL
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EQPT	EQUIPMENT
FBO	FURNISHED BY OTHERS
FC	FINISHED CEILING
FCC	FIRE CONTROL CENTER
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
GFGI	GOVERNMENT FURNISHED - GOVERNMENT INSTALLED
GC	GENERAL CONTRACTOR
GND	GROUND
HVAC	HEATING VENTILATION & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT - SEE NEC ARTICLE 342
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
MDF	MAIN DISTRIBUTION FRAME
MM	MULTI-MODE (OPTICAL FIBER)
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE - NFPA 70
NESC	NATIONAL ELECTRICAL SAFETY CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OSP	OUTSIDE PANT
PNL	PANEL
PR	PAIRS-NUMBER OF PAIRS IN COPPER CABLE
PVC	POLYVINYL CHLORIDE
RM	ROOM
RMC	RIGID METAL CONDUIT - SEE NEC ARTICLE 344
RU	RACK UNIT; UNIT OF PATCH PANEL HEIGHT EQUAL TO 1.75 INCH
SCC	SECURITY CONTROL CENTER
SDF	SECURITY DISTRIBUTION FRAME
SM	SINGLE-MODE (OPTICAL FIBER)
STP	SHIELDED TWISTED PAIR
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TEL	TELECOMMUNICATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF

TELECOM. NOTES

1. THE LOCATIONS AND ELEVATIONS OF TECHNOLOGY DEVICES SHOWN ON THESE DRAWINGS ARE SCHEMATIC UNLESS ACTUAL DIMENSIONS ARE SHOWN ON THE DRAWINGS. REFER TO THE ARCHITECTURAL PLANS AND OBTAIN THE APPROVAL OF THE ARCHITECT FOR THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL DEVICES.
2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
3. ABOVE COUNTER DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER OR A MAXIMUM OF 44" AFF (TO TOP OF DEVICE).
4. PROVIDE SUPPORTS AND ANCHORING FOR PIPING, CONDUIT, DUCTS, EQUIPMENT, AND OTHER NON-STRUCTURAL ELEMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE SOUND PUTTY PADS IN ALL BACK BOXES.
6. FIRESTOPPING: ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS AND CONDUIT/SLEEVE OPENINGS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES, HOT GASSES AND SMOKE WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR APPLICABLE CODES.
7. ALL COMMUNICATIONS CONDUIT, CABLE TRAYS, LADDER RACKS AND EQUIPMENT RACKS SHALL BE BONDED TO BUILDING GROUND SYSTEM PER NEC 250 AND ANSI/TIA-607-C.
8. LABEL ALL CLOSETS, RACKS, FRAMES, CABINETS, TERMINATION BLOCKS, CABLES, TERMINATIONS, RACEWAYS, ETC. IN ACCORDANCE WITH ANSI/TIA-606-C.
9. ALL COMMUNICATIONS RACEWAYS AND PATHWAYS SHALL BE INSTALLED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (E.G CAT.6). BASIC LINK CABLE LENGTH SHALL NOT EXCEED 295 FT (90M) FOR UTP CABLE, 150 FT (45M) FOR SERIES-6 COAXIAL CABLE.
10. ALL COMMUNICATIONS CABLE SHALL BE PLENUM RATED (CMP), RISER RATED (CMR) AND UNDERGROUND RATED (WATERBLOCK) ACCORDING TO USE AND ENVIRONMENTAL CONDITIONS.
11. PROVIDE PROTECTIVE BUSHINGS ON ALL COMMUNICATIONS CONDUITS AND WHERE CABLING ROUTES THROUGH METAL STUDS.
12. ALL NON-ARMORED FIBER OPTIC CABLE SHALL BE INSTALLED IN APPROVED INNERDUCT.
13. ALWAYS INSTALL LOW-VOLTAGE CABLES IN CONDUITS, CABLE TRAYS, WIREWAYS OR OTHER APPROVED CABLE MANAGEMENT DEVICES OR SYSTEMS. NEVER INSTALL CABLES IN SUCH A MANNER THAT THEY ARE SUPPORTED BY CEILING SYSTEMS (CEILING TILE OR GRID, GYPSUM BOARD, LATH & PLASTER), HVAC DUCTS OR PIPES, LIGHTING FIXTURES, ELECTRICAL CONDUITS OR CABLES, PLUMBING/FIRE PROTECTION PIPES, OR ANY OTHER DEVICES NOT INTENDED FOR THE SUPPORT OF LOW-VOLTAGE CABLING.
14. EXPOSED LOW-VOLTAGE CABLES SHALL NOT BE PAINTED. ANY PAINTED CABLES SHALL BE REMOVED AND REPLACED WITH NEW CABLES.
15. PROVIDE WEATHERPROOF, IN-USE COVER FOR EXTERIOR DATA DEVICES.
16. ALL CABLE TRAY MOUNTING HEIGHTS INDICATED ON FLOOR PLANS ARE TO THE BOTTOM OF CABLE TRAY SUPPORTS.
17. SEISMIC BRACING FOR ALL CABLE TRAYS SHALL BE PROVIDED AS REQUIRED BY CODE, LOCAL GOVERNING JURISDICTION AND CABLE TRAY MANUFACTURER SPECIFICATIONS.
18. ALL CABLE TRAY ROUTING THROUGH ELECTRICAL ROOMS SHALL BE FULLY ENCLOSED. REFER TO CABLE TRAY DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
19. CABLE TRAY AND CABLE ROUTING ARE INTENDED TO SUPPORT ALL TYPES OF TELECOMMUNICATIONS CABLING AS DEFINED IN TIA-569-D.
20. RACEWAYS AND CABLE SHALL BE RUN CONCEALED IN FINISHED SPACES UNLESS OTHERWISE INDICATED.
21. REUSABLE VELCRO TIES SHALL BE USED TO BUNDLE OR MANAGE CABLES. PLASTIC ZIP TIES ARE NOT APPROVED FOR USE.
22. SIZE AND ORIENTATION OF ALL TELECOM PULL-BOXES SHALL MEET OR EXCEED THE BICSI TDMM REQUIREMENTS.
23. ALL LOW-VOLTAGE CONDUIT LARGER THAN 2" SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. ALL LOW-VOLTAGE CONDUIT 2" AND SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 6:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS.
24. ALL CONDUITS AND MICRODUCTS SHALL BE INSTALLED WITH PULL-STRINGS.
25. ALL CABLING SHALL BE INSTALLED TO THE CENTER OF THE ROOM THEN TO DEVICE LOCATION. LEAVE 6' COIL AT CENTER OF THE ROOM FOR FUTURE RELOCATION. SEE DETAIL 04 ON SHEET TC200.

SYMBOLS LEGEND

RACEWAY LEGEND	
T ——— T ———	TELECOMMUNICATIONS CONDUIT
UT ——— UT ———	CONDUITS BELOW GRADE/SLAB OR EMBEDDED IN SLAB
J ——— J ———	CABLES ON J-HOOKS
○———	CONDUIT UP
●———	CONDUIT DOWN
⊢———	CONDUIT STUBBED OUT WITH BUSHING
◪	CONDUIT CROSS-SECTION
——— CT ———	TELECOMMUNICATIONS CABLE TRAY
▭▭▭▭▭▭▭▭	TELECOMMUNICATIONS CABLE TRAY

MISCELLANEOUS SYMBOL LEGEND

#	SHEET KEYNOTE
#	REVISION NUMBER
1 / T2.1	CALLOUT — CALLOUT NUMBER / SHEET NUMBER
TMGB	TELECOM MAIN GROUNDING BUSBAR
TGB	TELECOM GROUNDING BUSBAR

LOW VOLTAGE WIRING DEVICE LEGEND

WAP	WIRELESS ACCESS POINT (2) - CAT 6A - 4 PAIR UTP CABLES
2	DATA 2 LOCATION (2) - CAT 6 - 4 PAIR UTP CABLES
2-AV	DATA 2 LOCATION - FOR AV (2) - CAT 6 - 4 PAIR UTP CABLES COORDINATE EXACT PLACEMENT OF OUTLET WITH GC, EC AND AV CONTRACTORS.
4-AV	DATA 4 LOCATION - FOR AV (4) - CAT 6 - 4 PAIR UTP CABLES COORDINATE EXACT PLACEMENT OF OUTLET WITH GC, EC AND AV CONTRACTORS.
2-AV	FLOOR MOUNTED DATA 2 LOCATION - FOR AV (2) - CAT 6 - 4 PAIR UTP CABLES COORDINATE EXACT PLACEMENT OF OUTLET WITH GC, EC AND AV CONTRACTORS.
FB	FLOOR BOX 2" CONDUIT TO ACCESSIBLE CEILING
CR	CARD READER

NOTES:

1. FOR TELECOMMUNICATIONS OUTLETS, PROVIDE BOX WITH CONDUIT FROM BOX TO 3" ABOVE AN ACCESSIBLE CEILING OR INTO THE TELECOM ROOM. INCLUDE PULL STRING AND TERMINATED WITH AN INSULATED BUSHING. BOXES SHALL BE RECESSED. 1"C., 4 11/16" x 2 1/8" BOX WITH 5/8" RAISED SINGLE GANG PLASTER RING. RACO #259 & 843 OR EQUAL.
2. FOR TELEPHONE OUTLET, PROVIDE SINGLE GANG BOX AND PLASTER RING BOX WITH 3/4" CONDUIT TERMINATED WITH AN INSULATING BUSHING TO 3" ABOVE AN ACCESSIBLE CEILING OR INTO THE TELECOM ROOM WITH A PULL STRING.
3. ALL CONDUITS, BACK BOXES AND PLASTER RINGS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TELECOMMUNICATIONS CONTRACTOR SHALL COORDINATE AND VERIFY THE OUTLET LOCATIONS BY REFERRING TO THE ARCHITECTURAL DRAWINGS AND DETAILS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS.
5. ALL CABLING SHALL BE INSTALLED TO THE CENTER OF THE ROOM THEN TO DEVICE LOCATION. LEAVE 6' COIL AT CENTER OF THE ROOM FOR FUTURE RELOCATION. SEE DETAIL 04 ON SHEET TC200.

CABLE COLOR LEGEND

Blue	=	Data 1	(also see Jack/plug coding spec)
White	=	Voice 1	(also see Jack/plug coding spec)
Yellow	=	Data 2/Camera	(also see Jack/plug coding spec)
Violet	=	WAPs only - CAT6A	(also see Jack/plug coding spec)
Orange	=	A/V, Only LOCAL Loops	(also see Jack/plug coding spec)
Red	=	Fire Alarm	
Gray	=	BMS Controls	(Siemens)
Brown	=	Other HVAC Controls	
Pink	=	Light Controls	
Black	=	Shade Controls	
Green	=	Door Access	

Foot notes:
1) Any fire wire inside MC or conduit must follow the R.I. State Fire Code, UL, & NFPA color
2) Any data conductor/twisted pair must follow ANSI-TIA standards
3) All RJ-45 data jack and wall plates to follow RIC standards in plans & specs
4) A pre-construction coordination team meeting required prior to start

LEGEND NOTES

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

DRAWING LIST

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RHODE ISLAND COLLEGE
CYBER COMMAND CENTER

Project Location
600 MT PLEASANT AVENUE
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CONSTRUCTION DOCUMENTS
AUGUST 30, 2024

Revisions

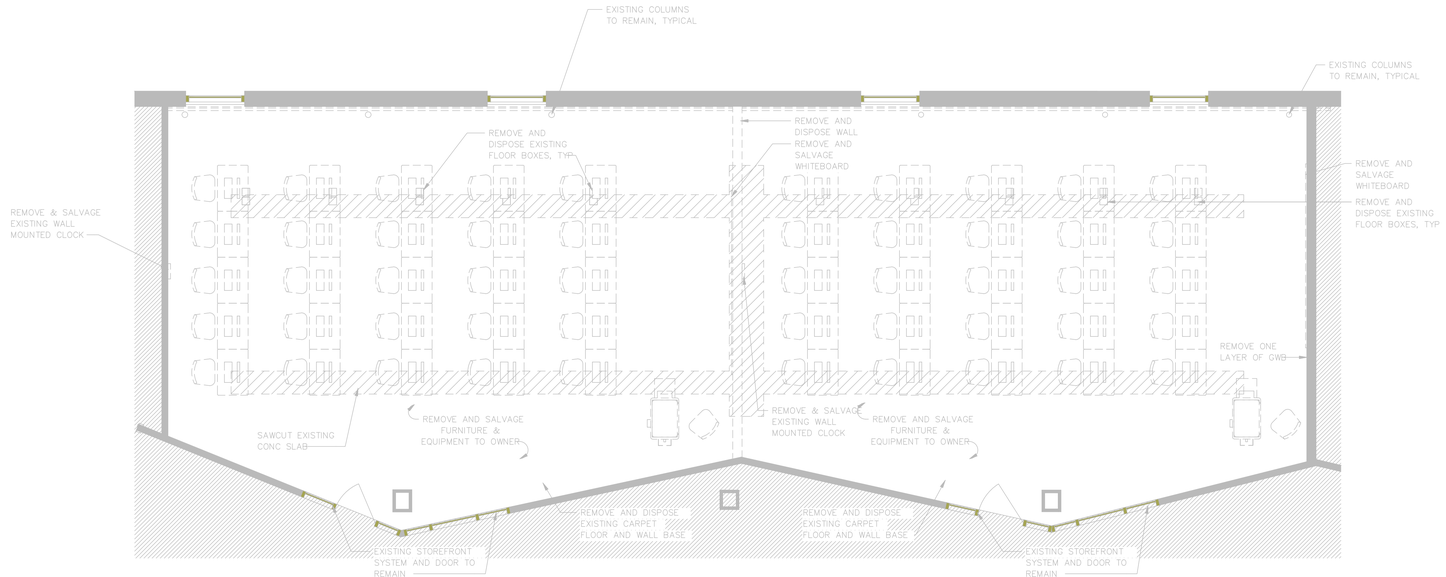
Drawing Title
ENLARGED FLOOR AND CEILING PLAN NEW

TC0.01

DEMOLITION NOTES:

1. REMOVE ALL CATEGORY 6 4-PAIR UTP CABLING TO IT'S SOURCE

2. TONE, TAG, ID AND LABEL ALL CABLING BEFORE DELOLITION



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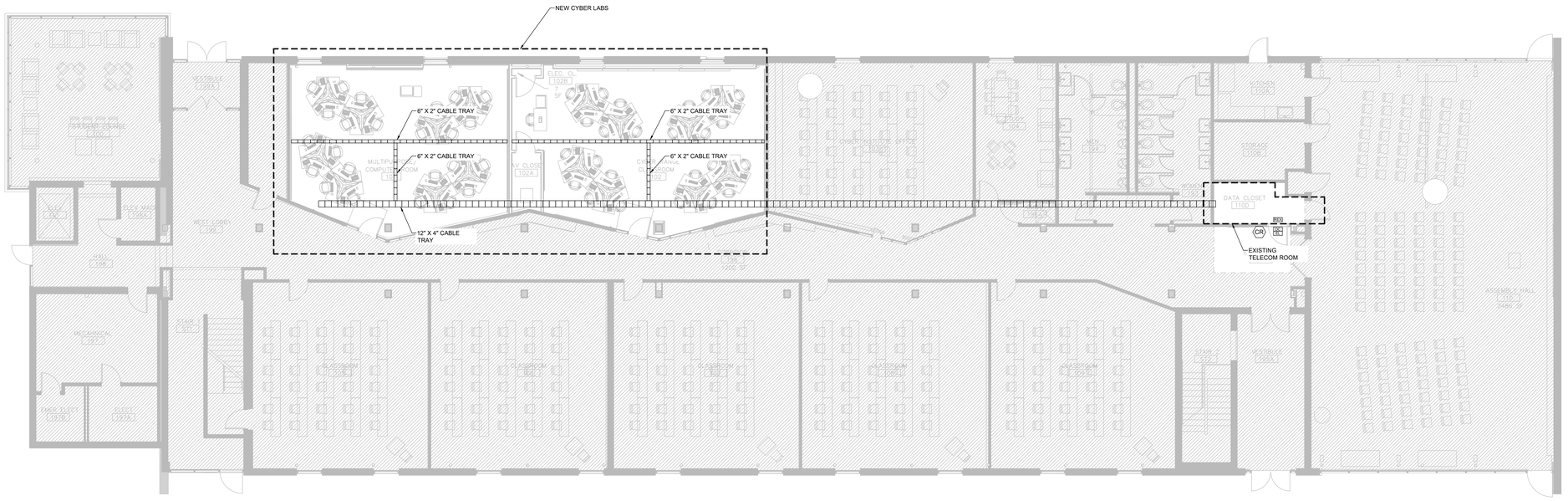
Drawing Title
TELECOM
FIRST FLOOR DEMOLITION PLAN

TC1.00



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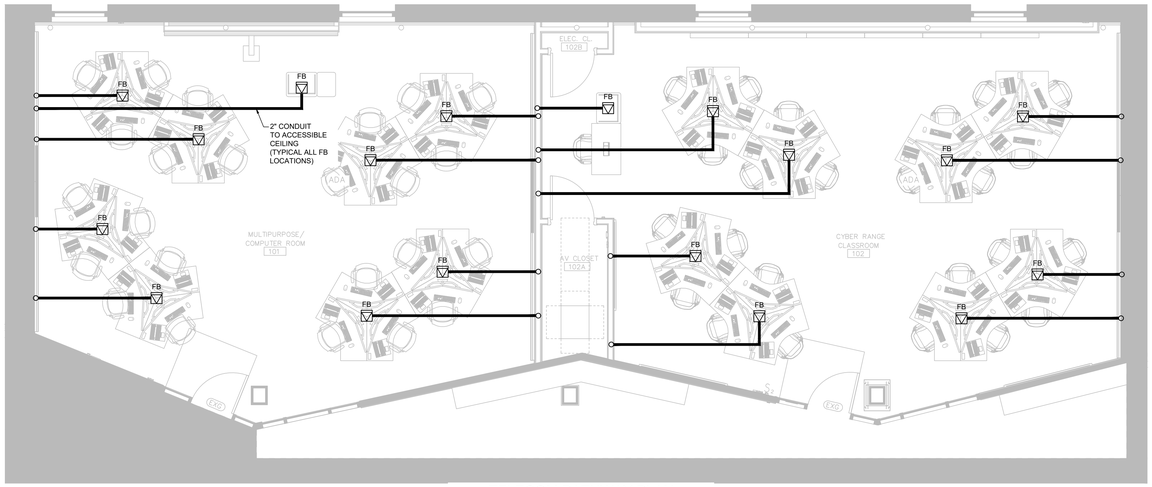
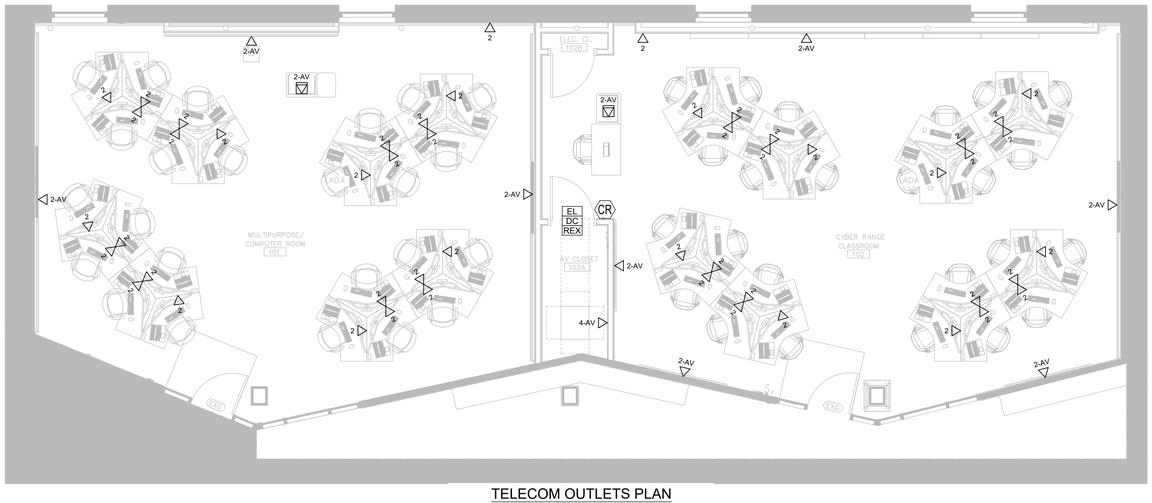
TELECOM
FIRST FLOOR OVERALL PLAN

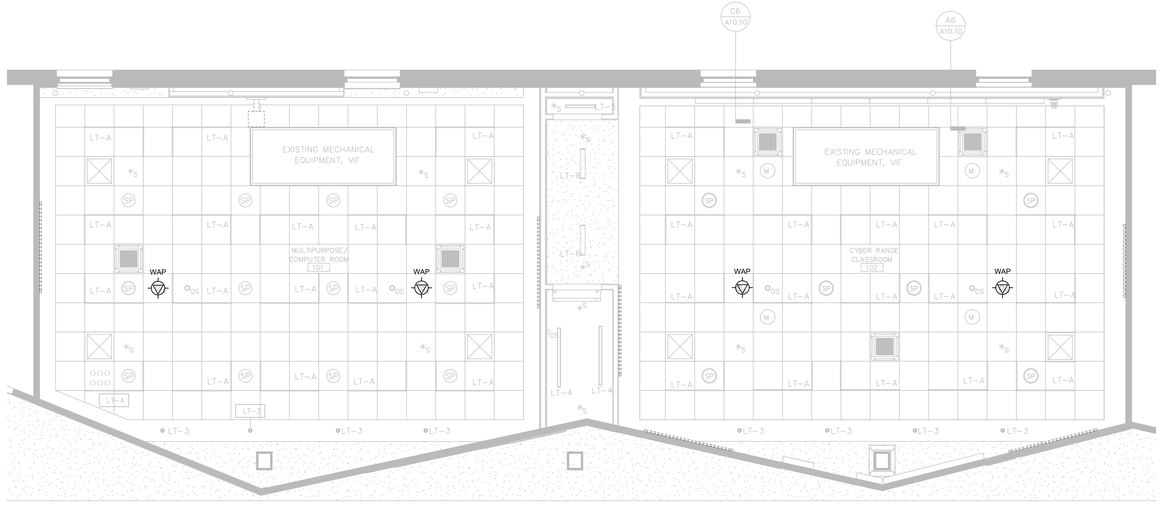
TC1.01



TELECOM PATHWAY PLAN



TELECOM OUTLETS PLAN



TELECOM OUTLETS PLAN - RCP

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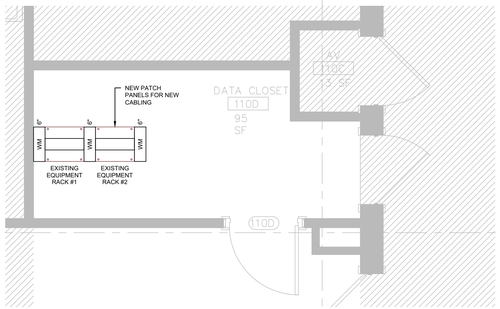
Drawing Title
TELECOM
FIRST FLOOR PART PLANS

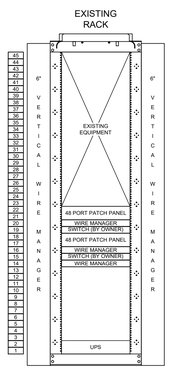
TC1.11



1 TC2.00

DATA CLOSET 110D - EQUIPMENT LAYOUT

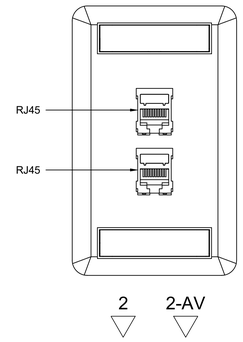
SCALE: 3/8" = 1'-0"



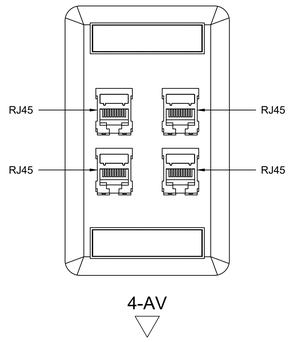
2 TC2.00

DATA CLOSET 110D - RACK ELEVATION

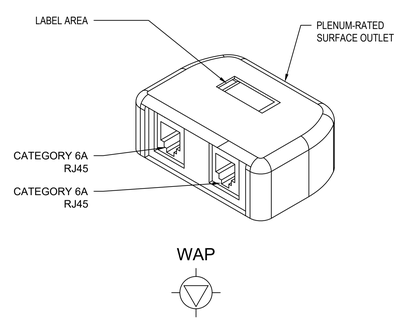
SCALE: 3/4" = 1'-0"



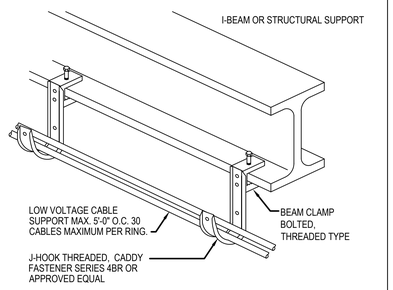
TYPICAL OUTLET "2" & "2-AV" DETAIL — NO SCALE



TYPICAL OUTLET "4-AV" DETAIL — NO SCALE



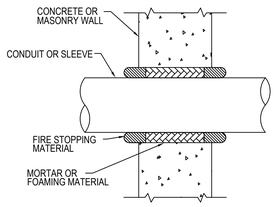
TYPICAL OUTLET "WAP" DETAIL — NO SCALE



NOTES:

1. SUPPORTING CABLE IS ACCEPTABLE BELOW SUPPORT STEEL OR ABOVE STEEL. COORDINATE MOUNTING LOCATIONS WITH OTHER TRADES AND FIELD CONDITIONS. PROVIDE SUPPORT CLIPS AND THREADED RODS AS REQUIRED FOR A COMPLETE SUPPORT SYSTEM AS INDICATED.
2. SUPPORT CABLE EITHER PARALLEL OR PERPENDICULAR TO SUPPORT STEEL.

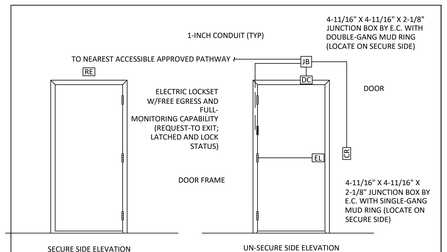
TYPICAL CABLE SUPPORT DETAIL — NO SCALE



NOTES:

1. INSTALL FIRE STOPPING MATERIAL IN ACCORDANCE WITH UL 1479 STANDARDS AND MANUFACTURER TESTED METHODS.
2. INSTALL FIRE STOPPING MATERIAL INSIDE SLEEVES AFTER CABLE INSTALLATION IS COMPLETE.
3. ALWAYS RESTORE THE FIRE-RATING OF THE WALL TO IT'S INTENDED DESIGN.

FIRESTOPPING DETAIL — NO SCALE



NOTES:

1. UNLESS OTHERWISE SPECIFIED ON ARCHITECTURAL DOOR SCHEDULE, DOOR FRAME AND ALL DOOR HARDWARE IS FURNISHED BY OTHERS.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOXES AND ALL CONDUITS AS INDICATED.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DEVICE HEIGHTS.
4. GENERAL CONTRACTOR SHALL FIELD LOCATE DOOR CONTACT (I.E., DOOR POSITION SWITCH) AND PREP DOOR WITH 3/4" DIA. HOLE LOCATED AT TOP OF FRAME 4-INCHES FROM LATCH SIDE OF DOOR. ELECTRICAL CONTRACTOR SHALL ASSURE DOOR CONTACT CONDUIT(S) PROPERLY ALIGN WITH OPENING AND THAT THE DOOR CONTACT CONDUIT DOES NOT EXCEED 1/4" BE;PW BOTTOM OF DOOR HEADER. EC SHALL FURNISH AND INSTALL BANG ON BUSHINGS AND PULL STRINGS FOR EACH DOOR CONTACT CONDUIT AS INDICATED ON PLANS AND DETAILS.
5. UNLESS OTHERWISE INDICATED ALL LOCKS SHALL FAIL SECURE WITH FREE EGRESS.
6. PROVIDE THE FOLLOWING CABLES FROM EACH DOOR INDICATED TO THE COMM ROOM WHERE THE ACS PANELS ARE LOCATED. COIL 15' OF CABLE AT EACH END AND LABEL ALL CABLES.
   A. CR= 22/6 SHIELDED PLENUM CABLE
   B. RE=18/4 SHIELDED PLENUM CABLE
   C. DC= 18/4 SHIELDED PLENUM CABLE
   D. EL= 16/2 SHIELDED PLENUM CABLE

ACCESS PORTAL WITH ELECTRIFIED LOCK SET - DOOR STYLE — NO SCALE

3 TC2.00

TELECOM DETAILS

SCALE: N.T.S.

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Revisions

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TELECOM
DETAILS SHEET

TC2.00

SHEET LIST

SHEET NUMBER	SHEET NAME	DESIGN DEVELOPMENT: 06/28/24	COORDINATION SET: 07/24/24	100% CONSTRUCTION DOCUMENTS: 08/30/24
AV0.01	AV SHEET LIST, RESPONSIBILITY MATRIX, GENERAL NOTES	X	X	X
AV1.01	AV SCOPE PLAN	X	X	X
AV2.01.1	MULTIPURPOSE/ COMPUTER ROOM 101 - PLANS, ELEVATION, CONDUIT RISER	X	X	X
AV2.01.2	MULTIPURPOSE/ COMPUTER ROOM 101 - PLANS, ELEVATION, CONDUIT RISER	X	X	X
AV2.01.3	MULTIPURPOSE/ COMPUTER ROOM 101 - PLANS, ELEVATION, CONDUIT RISER	X	X	X
AV2.02.1	CYBER RANGE CLASSROOM 102 - PLANS, ELEVATION, CONDUIT RISER	X	X	X
AV2.02.2	CYBER RANGE CLASSROOM 102 - PLANS, ELEVATION, CONDUIT RISER	X	X	X
AV2.02.3	CYBER RANGE CLASSROOM 102 - PLANS, ELEVATION, CONDUIT RISER	X	X	X
AV3.01	MULTIPURPOSE/ COMPUTER ROOM 101 - AV SYSTEM FLOW		X	X
AV3.02.1	CYBER RANGE CLASSROOM 102 - AV RACK ELEVATION		X	X
AV3.02.2	CYBER RANGE CLASSROOM 102 - AV SYSTEM FLOW		X	X
AV3.02.3	CYBER RANGE CLASSROOM 102 - AV SYSTEM FLOW		X	X
AV4.01	AV DETAILS	X	X	X
AV4.02	AV DETAILS	X	X	X

RESPONSIBILITY MATRIX

RESPONSIBILITY	PROVIDED BY: AVC	CLIENT	GC	EC	OTHERS	N/A	INSTALLED BY: AVC	CLIENT	GC	EC	OTHERS	N/A	NOTES
PERMANENT FURNITURE													
CREDENZAS						X						X	
LECTERNS	X						X						
FURNITURE MOUNTED DEVICES													
GROMMETS						X						X	
MICROPHONE CUTOUTS						X						X	
MICROPHONES						X						X	
MICROPHONES TERMINATED						X						X	
TABLE BOX CUTOUTS						X						X	
TABLE BOXES						X						X	
WALL MOUNTED DEVICES													
CAMERA MOUNTS						X						X	
FLAT PANEL DISPLAY BLOCKING			X					X					
PLAT PANEL DISPLAY BACK BOXES						X						X	
FLAT PANEL DISPLAY MOUNTS	X						X						
FLAT PANEL DISPLAYS	X						X						
PROJECTION SCREENS					X						X		
SPEAKER CUTOUTS						X						X	
SPEAKERS						X						X	
CEILING MOUNTED DEVICES													
CAMERA HARD POINTS			X					X					
CAMERA MOUNTS	X						X						
FLAT PANEL DISPLAY CEILING MOUNTS						X						X	
FLAT PANEL DISPLAYS						X						X	
MICROPHONES	X						X						
MICROPHONES TERMINATED	X						X						
PROJECTION SCREENS						X						X	
PROJECTION SCREENS LVC, SWITCH						X						X	
PROJECTOR HARD POINTS						X						X	
PROJECTOR MOUNTS						X						X	
SPEAKER RIGGING						X						X	
SPEAKERS	X						X						
ELECTRICAL													
AV CONNECTORS, WALL PLATES				X						X			
CONDUIT, PULL STRING				X						X			
CONNECTRAC				X						X			
FLOOR BOXES				X						X			
FLOOR CORES				X						X			
FLOOR POKE-THROUGHS				X						X			
JUNCTION BOXES				X						X			
LOW VOLTAGE CABLE	X						X						
OUTLETS				X						X			
TEL/DATA													
BOXES, CONDUIT, PULL STRING				X						X			
CABLE				X						X			
CONNECTORS				X						X			
CONNECTORS TERMINATED				X						X			
DATALINKS		X					X						
NETWORK SERVICES		X					X						
REPEATERS, HUBS		X					X						
BROADBAND VIDEO													
BOXES, CONDUIT, PULL STRING						X						X	
CABLE						X						X	
CONNECTORS						X						X	
CONNECTORS TERMINATED						X						X	
COAX DISTRIBUTION AMPLIFIERS						X						X	
COAX PLATES						X						X	
COAX ISOLATION TAPS, TERMINATORS						X						X	
LIGHTING/SHADES													
DIMMING EQUIPMENT						X						X	
DIMMING LVC						X						X	
DIMMING PROGRAMMING						X						X	
SHADES MOTOR LVC CABLE						X						X	
SHADES MOTOR LVC CABLE TERMINATED						X						X	
SHADES PROGRAMMING						X						X	

DEVICE LEGEND

ID#	DESCRIPTION	MANUFACTURER	MODEL	NOTES
ALS1	ALS IR RADIATOR	LISTEN TECHNOLOGIES	LA-141	
CAM1	PTZ CAMERA	BIRDDOG	P200	
CAM2	PTZ CAMERA	VADDIO	ROBOSHOT 20 UHD	
FB1	FLOOR BOX			PROVIDED/INSTALLED BY EC
FP1	75" DISPLAY	SONY	FW-75BZ30L	
FP2	OFE WORKSTATION MONITOR	OFE	OFE	
FP3	6X2 VIDEO WALL	PLANAR	6X2 VM55MX-M2	
FP4	75" DISPLAY	PLANAR	UP75	
JB1	1-GANG JUNCTION BOX			PROVIDED/INSTALLED BY EC
JB2	2-GANG JUNCTION BOX			PROVIDED/INSTALLED BY EC
JB4	4-GANG JUNCTION BOX			PROVIDED/INSTALLED BY EC
KB1	OFE KEYBOARD/MOUSE	OFE	OFE	
M1	CEILING MICROPHONE ARRAY	SHURE	MXA920W-S	
M2	CEILING MICROPHONE ARRAY	BIAMP	TCM-X	
M3	CEILING MICROPHONE ARRAY	BIAMP	TCM-XEX	
MT1	DISPLAY WALL MOUNT	PEERLESS	SF650	
MT2	PTZ CAMERA HARD CEILING MOUNT	VADDIO	535-2000-266	
MT3	SHORT THROW PROJECTOR WALL MOUNT	EPSON	V12HA06A05	
MT4	DESK MOUNT MONITOR ARM	ERGOTRON	45-241-224	
MT5	55" DISPLAY WALL MOUNT	PLANAR	VMT-XML	
MT6	75" DISPLAY WALL MOUNT	PLANAR	FWMG-MXL	
PC1	OFE PC	OFE	OFE	
PJ1	ULTRA SHORT THROW PROJECTOR	EPSON	V11H923520	
POD1	PODIUM / INSTRUCTOR STATION	SPECTRUM	ELITE	
RK1	AV EQUIPMENT RACK	OFE	OFE	
S1	CEILING SPEAKER	EXTRON	60-1310-03	
S2	CEILING SPEAKER	BIAMP	DX-IC6	
SC1	100" WHITEBOARD & PROJECTION SURFACE	EPSON	V12H006A02	PROVIDED BY OTHERS
TP1	10" TOUCH PANEL CONTROLLER	EXTRON	60-1565-02	
TP2	10" TOUCH PANEL CONTROLLER	CYVIZ	10.1" TOUCH MONITOR V3	
WB1	IN-WALL BOX / CAMERA MOUNT	VADDIO	999-2225015	PROVIDED BY OTHERS/INSTALLED BY EC

PLAN LEGEND

DEVICE / JUNCTION BOX SYMBOLS

DEVICE ID# CORRESPONDS TO AV DEVICE LEGEND ON AV002

- ID# AV DEVICE OR BOX @ FLOOR
- ID# AV DEVICE OR BOX @ WALL
- ID# AV DEVICE OR BOX @ WALL

POWER SYMBOLS

- D RECEPTACLE @ FLOOR, DUPLEX, 120V/20A
- Q RECEPTACLE @ FLOOR, QUAD, 120V/20A
- FA FIRE ALARM RELAY @ FLOOR
- D RECEPTACLE @ WALL, DUPLEX, 120V/20A
- Q RECEPTACLE @ WALL, QUAD, 120V/20A
- FA FIRE ALARM RELAY @ WALL
- D RECEPTACLE @ CEILING, DUPLEX, 120V/20A
- Q RECEPTACLE @ CEILING, QUAD, 120V/20A
- FA FIRE ALARM RELAY @ CEILING

TEL/DATA SYMBOLS

- P PoE+ DATA PORT @ FLOOR
- D DATA PORT @ FLOOR
- P PoE+ DATA PORT @ WALL
- D DATA PORT @ WALL
- TV CABLE TV @ WALL
- P PoE+ DATA PORT @ CEILING
- D DATA PORT @ CEILING

CONDUIT RISER LEGEND

CABLING

- - - - - - DASHED LINE - CABLE RUN WITHOUT CONDUIT
——— SOLID LINE - CABLE IN CONDUIT

ESTIMATED BTU LOADS

MULTIPURPOSE/ COMPUTER ROOM 101 - ESTIMATED BTU LOADS

ID#	DESCRIPTION	POWER	BTU/hr	QTY	BTU/hr
FP3	75" DISPLAY	306W	1044	2	2088
PJ1	ULTRA-SHORT THROW PROJECTOR	381W	1300	1	1300
POD1	PODIUM (INCLUDING RACK COMPONENTS)	N/A	2032	1	2032
				TOTAL:	5420

CYBER RANGE CLASSROOM 102 - ESTIMATED BTU LOADS

ID#	DESCRIPTION	POWER	BTU/hr	QTY	BTU/hr
FP3	75" DISPLAY	195W	665	3	1996
PJ1	6X2 VIDEO WALL	2640W	9008	1	9008
				TOTAL:	11004

AV / MECH. CLOSET 102A - ESTIMATED BTU LOADS

ID#	DESCRIPTION	POWER	BTU/hr	QTY	BTU/hr
RK1	AV EQUIPMENT RACK	N/A	21002	1	21002
				TOTAL:	21002

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RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

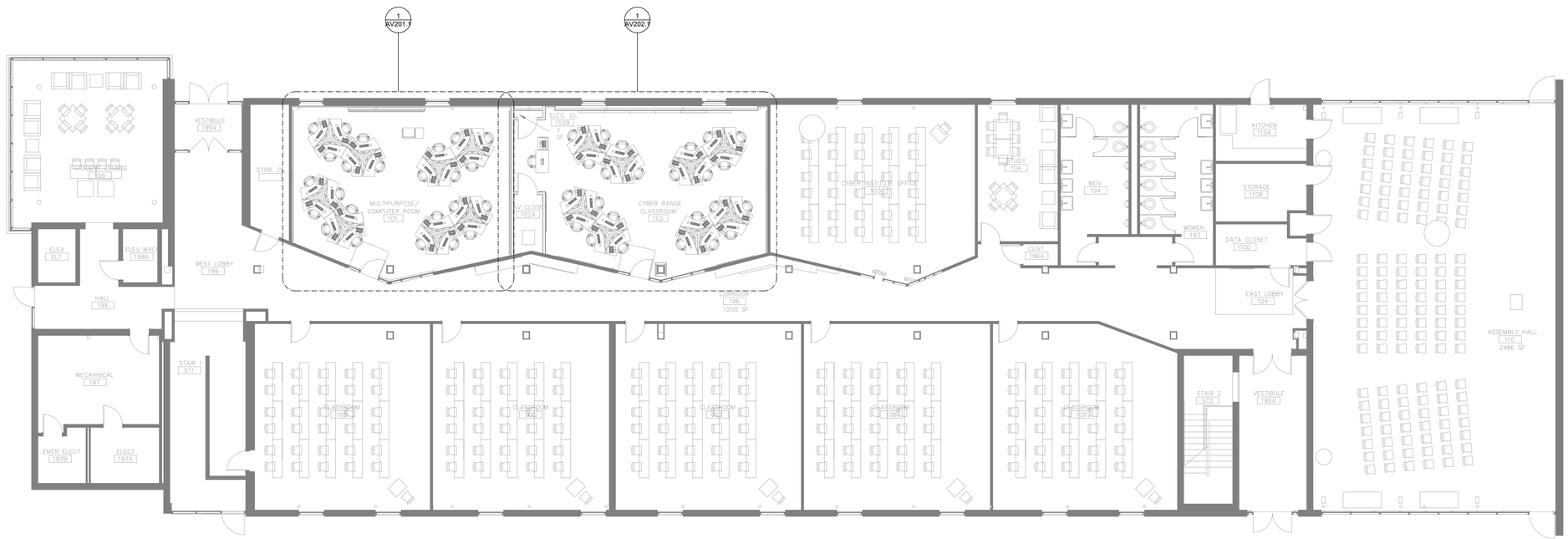
Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

Drawing Title
AV SHEET LIST, RESPONSIBILITY MATRIX, LEGENDS, BTU LOADS

AV0.01



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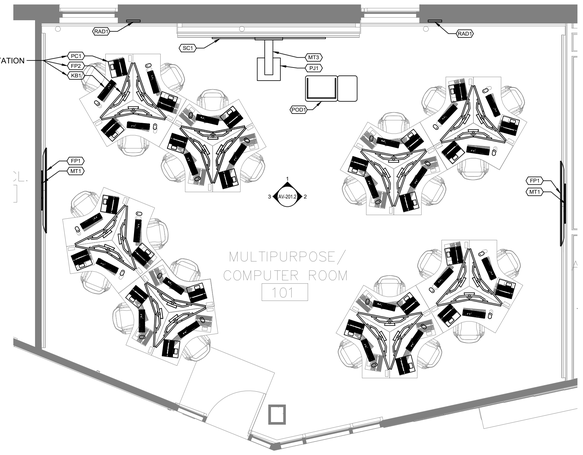
30 AUGUST 2024

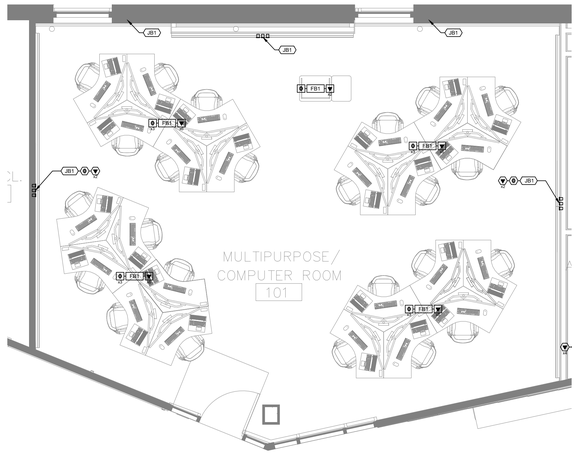
Revisions

Drawing Title
AV SCOPE PLAN

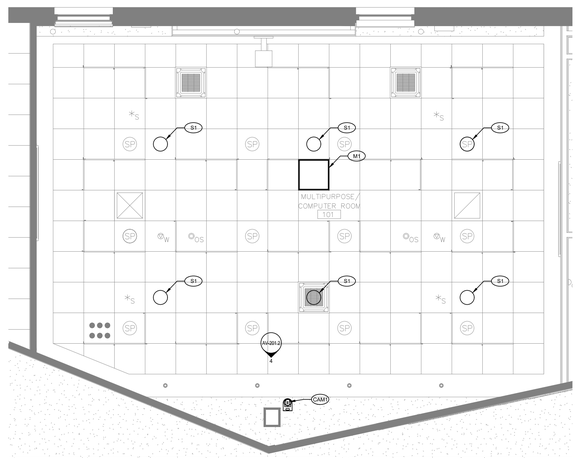
AV1.01



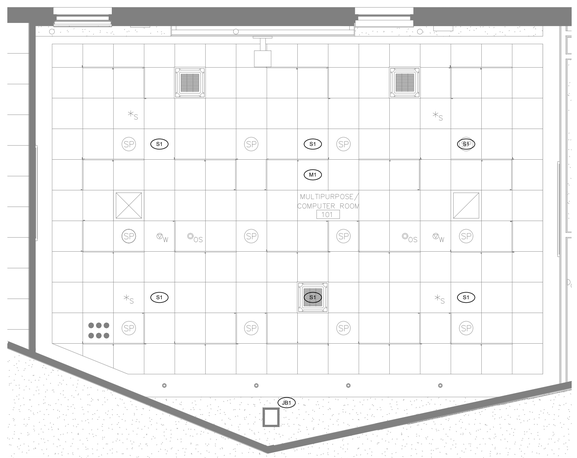
1 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - AV FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - AV RCP
SCALE: 1/4" = 1'-0"



4 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - ELECTRICAL RCP
SCALE: 1/4" = 1'-0"

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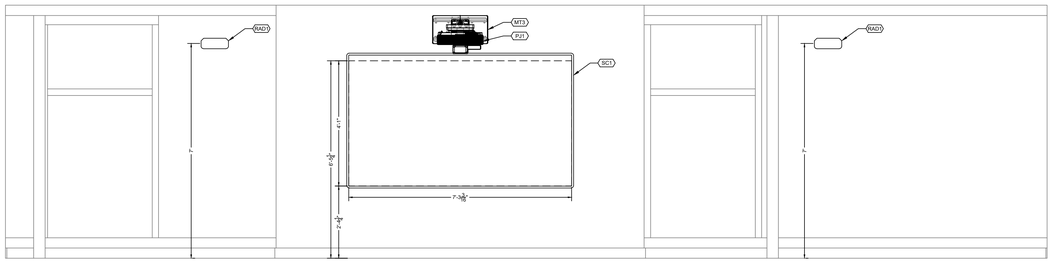
30 AUGUST 2024

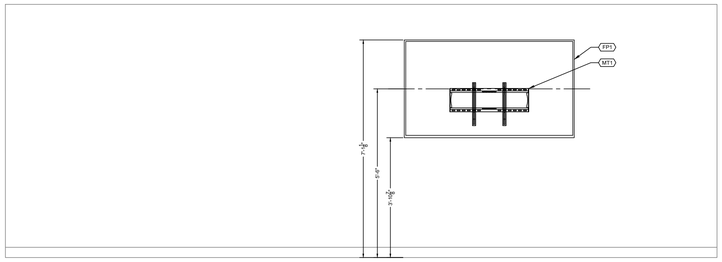
Revisions

Drawing Title
MULTIPURPOSE/ COMPUTER ROOM 101 (COMPUTER CLASSROOM) – PLANS, ELEVATION, CONDUIT RISER

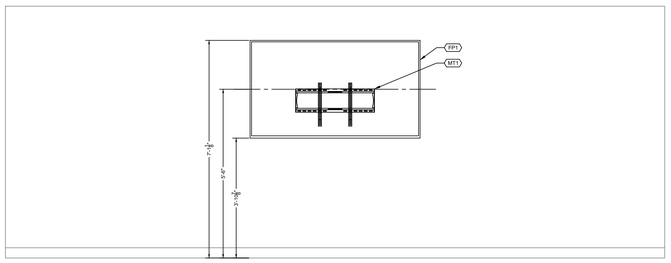
AV2.01.1



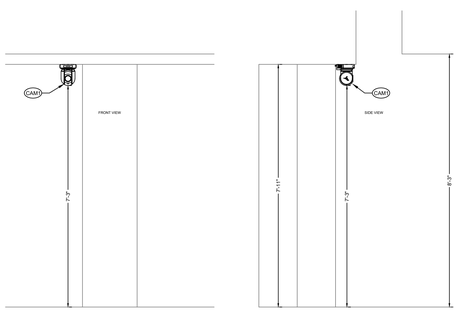
1 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - NORTH - AV ELEVATION
SCALE: 1/2" = 1'-0"



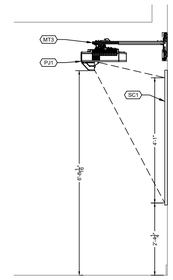
2 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - EAST - AV ELEVATION
SCALE: 1/2" = 1'-0"



3 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - WEST - AV ELEVATION
SCALE: 1/2" = 1'-0"



4 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - REAR CAMERA - AV ELEVATION
SCALE: 1/2" = 1'-0"



5 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - SECTION
SCALE: 1/2" = 1'-0"

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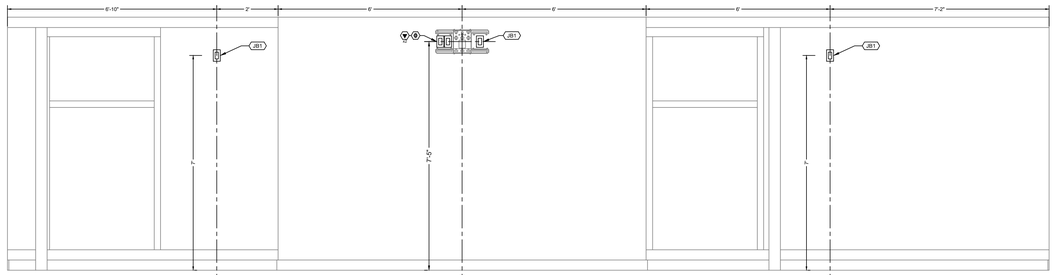
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

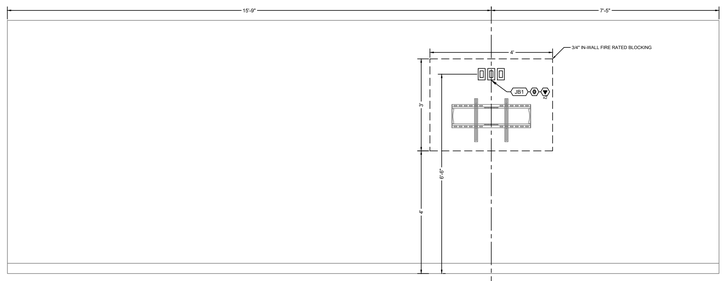
Revisions

Drawing Title
MULTIPURPOSE/ COMPUTER ROOM 101 (COMPUTER CLASSROOM) – PLANS, ELEVATION, CONDUIT RISER

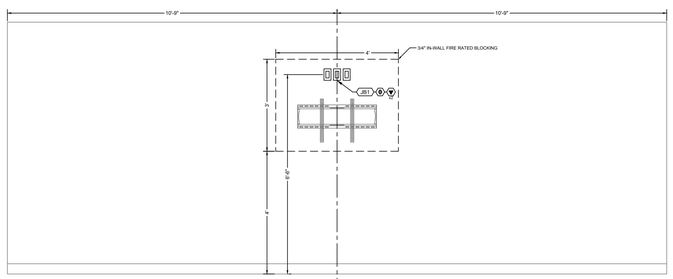
AV2.01.2



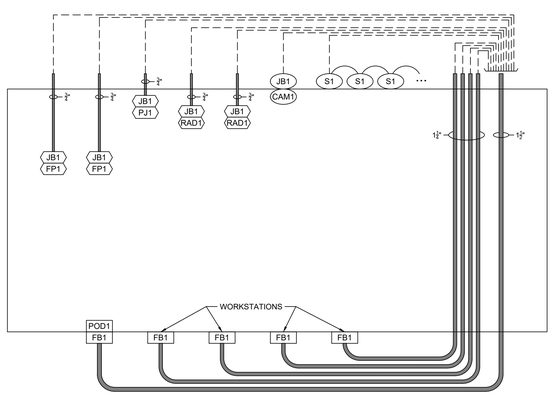
1 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - NORTH - ELECTRICAL ELEVATION
SCALE: 1/2" = 1'-0"



2 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - EAST - ELECTRICAL ELEVATION
SCALE: 1/2" = 1'-0"



3 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - WEST - ELECTRICAL ELEVATION
SCALE: 1/2" = 1'-0"



4 MULTIPURPOSE / COMPUTER ROOM 101 (COMPUTER CLASSROOM) - CONDUIT RISER
SCALE: 1/2" = 1'-0"

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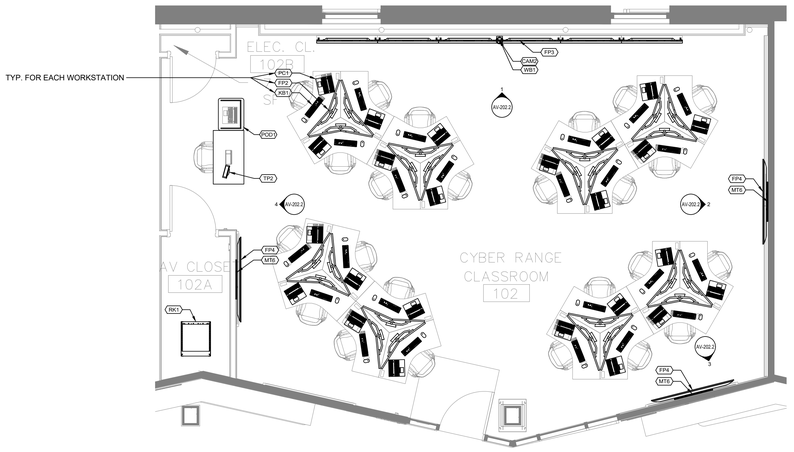
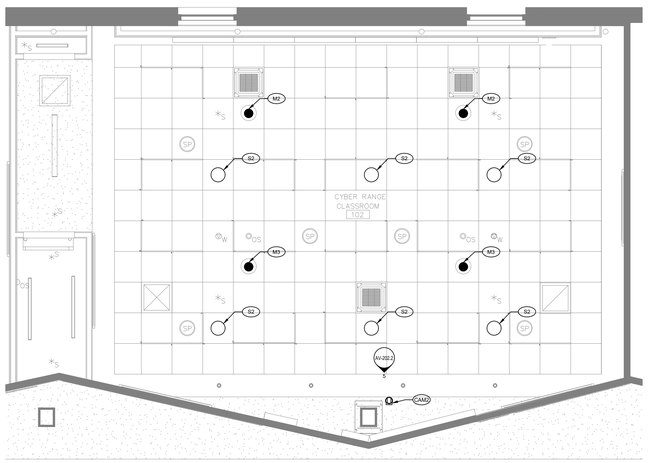
Revisions

Drawing Title
MULTIPURPOSE/ COMPUTER ROOM 101 (COMPUTER CLASSROOM) – PLANS, ELEVATION, CONDUIT RISER

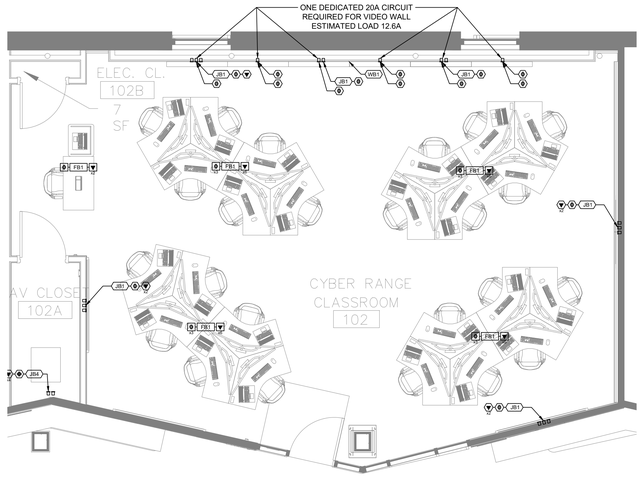
AV2.01.3



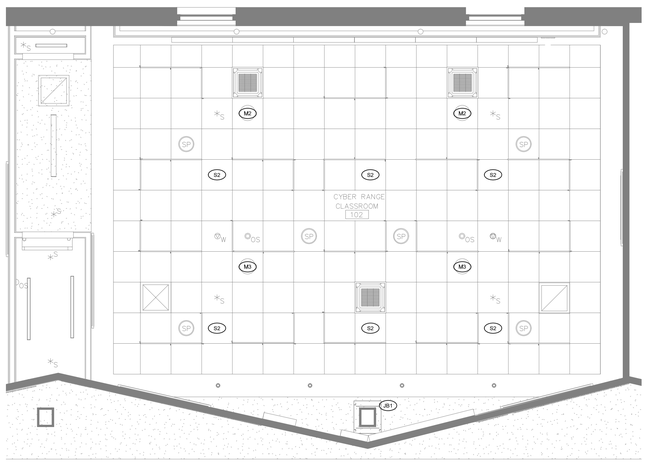
1 CYBER RANGE CLASSROOM 102 - AV FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 CYBER RANGE CLASSROOM 102 - AV RCP
SCALE: 1/4" = 1'-0"



3 CYBER RANGE CLASSROOM 102 - ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



4 CYBER RANGE CLASSROOM 102 - ELECTRICAL RCP
SCALE: 1/4" = 1'-0"

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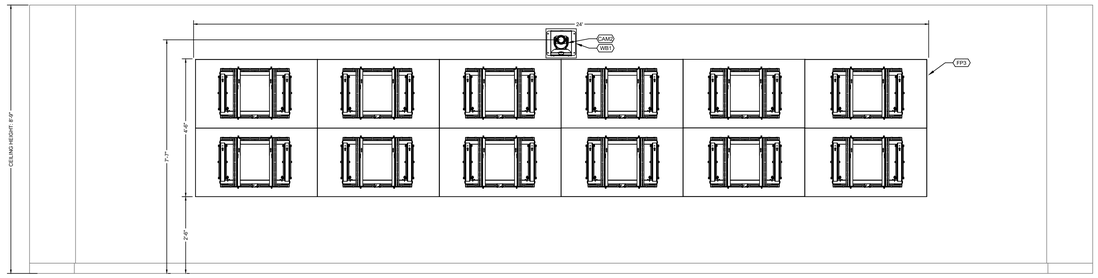
30 AUGUST 2024

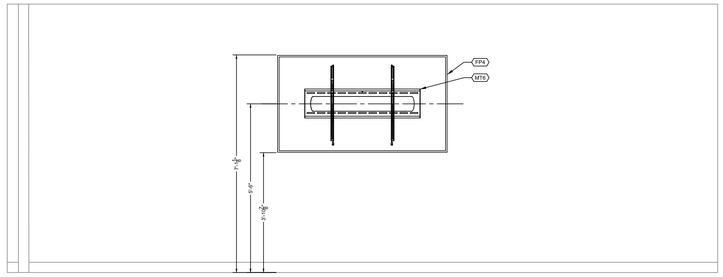
Revisions

Drawing Title
CYBER RANGE CLASSROOM 102 – PLANS, ELEVATION, CONDUIT RISER

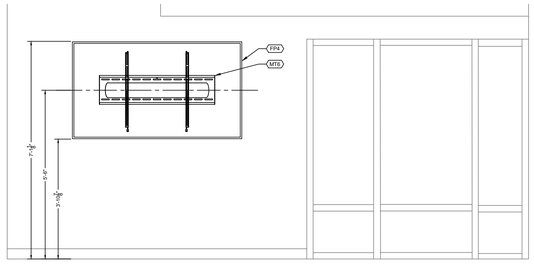
AV2.02.1



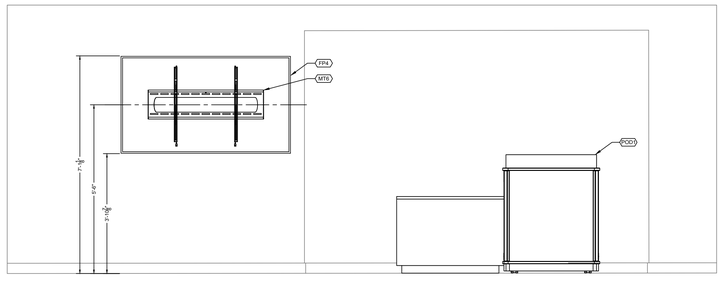
1 CYBER RANGE CLASSROOM 102 - NORTH - AV ELEVATION
SCALE: 1/2" = 1'-0"



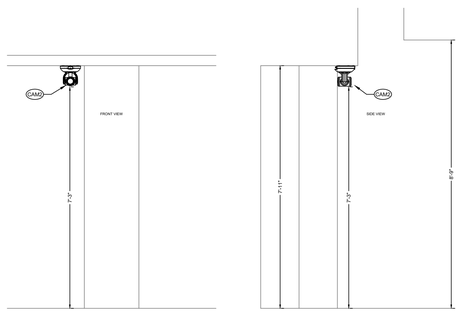
2 CYBER RANGE CLASSROOM 102 - EAST - AV ELEVATION
SCALE: 1/2" = 1'-0"



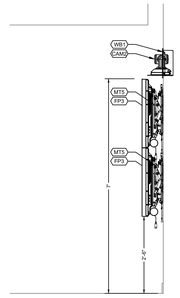
3 CYBER RANGE CLASSROOM 102 - SOUTH - AV ELEVATION
SCALE: 1/2" = 1'-0"



4 CYBER RANGE CLASSROOM 102 - SOUTH - AV ELEVATION
SCALE: 1/2" = 1'-0"



5 CYBER RANGE CLASSROOM 102 - REAR CAMERA - AV ELEVATION
SCALE: 1/2" = 1'-0"



6 CYBER RANGE CLASSROOM 102 - NORTH - AV SECTION
SCALE: 1/2" = 1'-0"

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RENOVATIONS TO ALGER HALL
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Project Information
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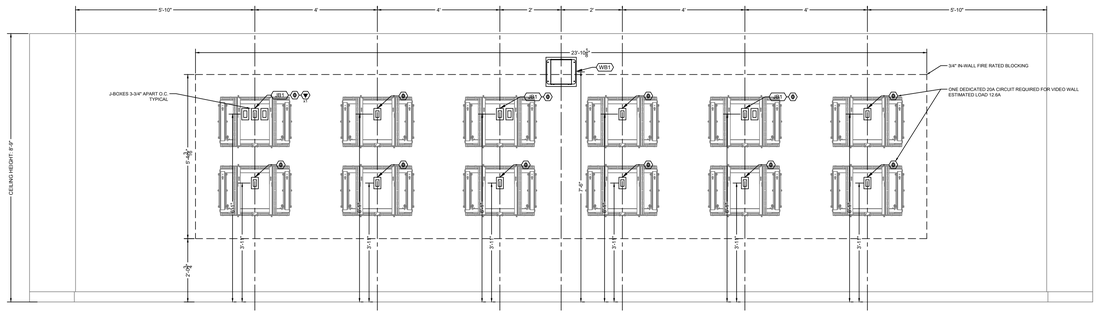
30 AUGUST 2024

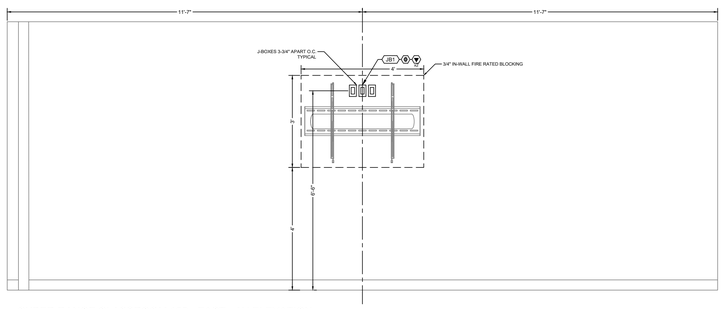
Revisions

Drawing Title
CYBER RANGE CLASSROOM 102 – PLANS, ELEVATION, CONDUIT RISER

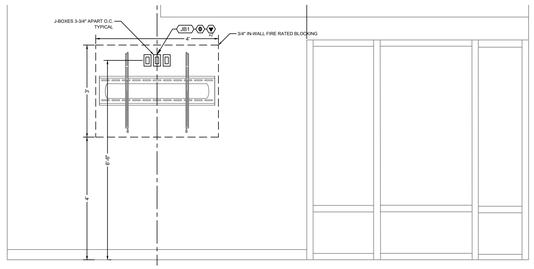
AV2.02.2



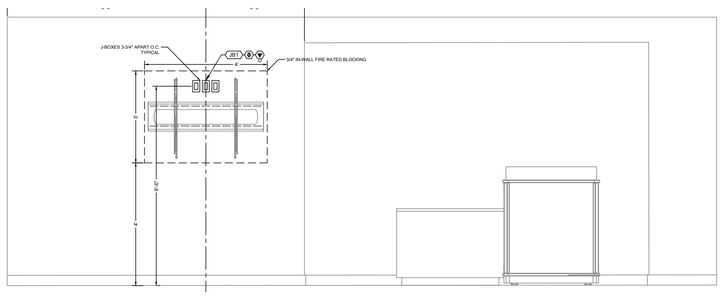
1 CYBER RANGE CLASSROOM 102 - NORTH - AV ELEVATION
SCALE: 1/2" = 1'-0"



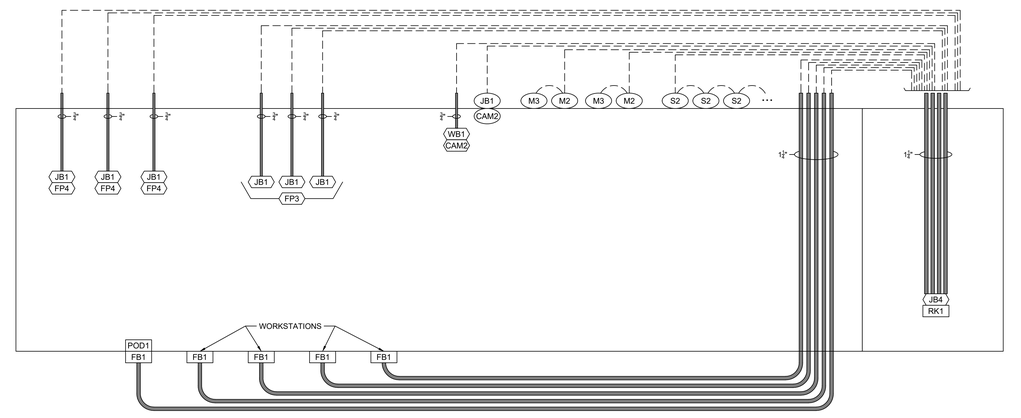
2 CYBER RANGE CLASSROOM 102 - EAST - AV ELEVATION
SCALE: 1/2" = 1'-0"



3 CYBER RANGE CLASSROOM 102 - SOUTH - AV ELEVATION
SCALE: 1/2" = 1'-0"



4 CYBER RANGE CLASSROOM 102 - SOUTH - AV ELEVATION
SCALE: 1/2" = 1'-0"



4 CYBER RANGE CLASSROOM 102 - CONDUIT RISER
SCALE: 1/2" = 1'-0"

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30 AUGUST 2024

Revisions

Drawing Title
CYBER RANGE CLASSROOM 102 – PLANS, ELEVATION, CONDUIT RISER

AV2.02.3

COMPUTER LAB 101

PODIUM TOP

AV RACK (WITHIN PODIUM)

24" TOUCH MONITOR
FP2 — VIEWSONIC TD2423D
HDMI IN
USB
USB
100-240V AC
USB
DISPLAYPORT IN

OFE MFF PC
PC1 — TBD TBD
USB
USB
USB
VIDEO OUT
LAN
110V AC
VIDEO OUT

DTP CROSSPOINT SWITCHER
VIDSW1 — EXTRON 60-1515-93
HDMI 1
HDMI 2
HDMI 3
HDMI 4
DTP/XTP 7
RS-232
IR
DTP/XTP 8
RS-232
IR
HDMI 5
HDMI 6
AUD IN 1
AUD IN 2
AUD IN 3
AUD IN 4
AUD IN 5
AUD IN 6
MCLN 1
MCLN 2
MCLN 3
MCLN 4
EXP
REMOTE
AV LAN 1
AV LAN 2
AV LAN 3
LAN
100-240V AC
HDMI 3A
HDMI 4A
COM 1
AUD OUT 1
AUD OUT 2
AUD OUT 3
AUD OUT 4
COM 2
COM 3
RELAY 1
RELAY 2
RELAY 3
RELAY 4
IR 1
IR 2
HDMI 2
DTP/XTP/HDBT 3B
RS-232
IR
DTP/XTP/HDBT 4B
RS-232
IR
SPK

DTP2 HDMI TRANSMITTER
TX1 — EXTRON 60-1631-62
HDMI
AUDIO
RS-232
IR
12V DC
DTP2 OUT

WIRELESS PRESENTATION SYSTEM
PRES1 — EXTRON 42-297-01
HDMI
USB
LAN / POE+
12V DC
HDMI / CEC
AUDIO L
AUDIO R

BLU-RAY PLAYER
MP1 — DENON DN-500BDMKII
HDMI
COAXIAL
LINE OUT L
LINE OUT R
LINE OUT L
LINE OUT R
USB 5V
FL
FR
SL
SR
SSL
SSR
SW
C
RS-232
LAN
100-240V AC

4K NDI DECODER
CONV1 — BIRD DOG BDFLEXDEC
NDI / POE
12V DC
HDMI

HDMI TO USB CONVERTER
CONV1 — EXTRON 60-1873-01
HDMI
MIC / LINE 1
MIC / LAN 2
LAN / POE+
120V AV
USB-C HOST
LINE 1
LINE 2
LOOP OUT

DOCUMENT CAMERA
DOCCAM1 — ELMO PX-30E
HDMI 1
HDMI 2
RS-232
LAN
12V DC
HDMI
HD BASET
RGB
USB
DC OUT 5V

10" TABLETOP TOUCHPANEL
TP1 — EXTRON 60-1565-02/03
LAN / POE+
USB

AUDIO NETWORK INTERFACE
CONV1 — SHURE ANUSB-MATRIX
DANTE / POE
LINE IN
USB
LINE OUT

POE+ NETWORK SWITCH
SWT1 — CISCO C1000-24P-4G-L
PORT 1
PORT 2
PORT 3
PORT 4
PORT 5
PORT 6
PORT 7
PORT 8
PORT 9
PORT 10
SFP 1
SFP 2
SFP 3
SFP 4
PORT 11
PORT 12
PORT 13
PORT 14
PORT 15
PORT 16
PORT 17
PORT 18
PORT 19
PORT 20
PORT 21
PORT 22
PORT 23
PORT 24
110V AC

FRONT WALL

DTP2 HDMI RECEIVER
RX1 — EXTRON 60-1631-63
DTP2 IN
HDMI OUT
AUDIO
IR
12V DC
RS-232

SHORT THROW PROJECTOR
PJ1 — EPSON POWERLITE 800F
HDMI 1
HDMI 2
HDMI 3
HDBASET
ANALOG
COMPOSITE
USB 1
USB 2
SYNC IN
RS-232
LAN
100-240V AC
HDMI OUT
ANALOG OUT
AUDIO OUT
DC OUT 2.0A
USB 1
USB 2
SYNC OUT

ASSISTED LISTENING TRANSMITTER
ALS1 — LISTEN TECH LT-84-01
MIC 1
LINE 1
LINE 1
MIC 2
LINE 2
LINE 2
12 VDC
LINK OUT
LINK OUT

ASSISTED LISTENING EXPANDER
EXP1 — LISTEN TECH LT-141
LINK IN
LINK OUT

EAST WALL

DTP2 HDMI RECEIVER
RX1 — EXTRON 60-1631-63
DTP2 IN
HDMI OUT
AUDIO
IR
12V DC
RS-232

75" DISPLAY
FP1 — SONY FW-75BZ30L
HDMI 1
HDMI 2
HDMI 3 (ARC)
HDMI 4
AUDIO IN
USB
USB
IR
RS-232
LAN
100-240V AC
AUDIO OUT
AUDIO OUT

WEST WALL

DTP2 HDMI RECEIVER
RX1 — EXTRON 60-1631-63
DTP2 IN
HDMI OUT
AUDIO
IR
12V DC
RS-232

75" DISPLAY
FP1 — SONY FW-75BZ30L
HDMI 1
HDMI 2
HDMI 3 (ARC)
HDMI 4
AUDIO IN
USB
USB
IR
RS-232
LAN
100-240V AC
AUDIO OUT
AUDIO OUT

CEILING

CEILING LOUDSPEAKER
S1 — EXTRON SF 26CT
70V
ZONE: 1
QTY: 6
TAP: 8W

PTZ CAMERA
CAM1 — BIRD DOG P200
CVBS
LINE IN
USB
RS422
RS232
NDI / POE+
12V DC
HDMI
3G SDI OUT
LINE OUT

CEILING ARRAY MICROPHONE
M1 — SHURE MXA920
POE+

LLB ARCHITECTS
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Worcester, MA
508.556.4648
www.LLBarch.com

RENOVATIONS TO ALGER HALL
CYBER COMMAND CENTER

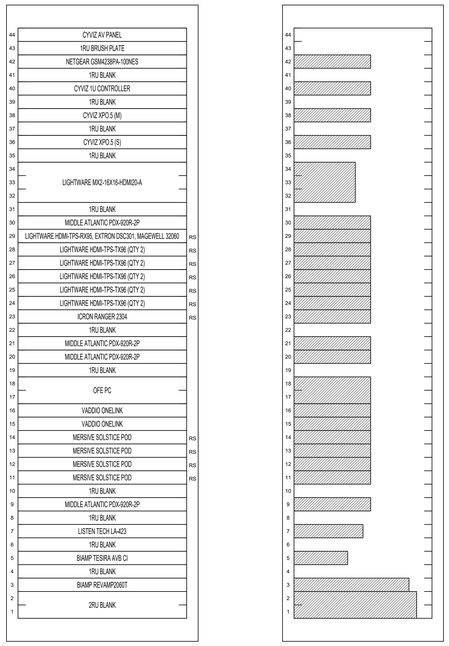
Project Location
RHODE ISLAND COLLEGE
600 MT PLEASANT AVENUE
PROVIDENCE, RI 02908

Project Information
CONSTRUCTION DOCUMENTS
30 AUGUST 2024

Revisions

Drawing Title
MULTIPURPOSE/ COMPUTER ROOM 101 (COMPUTER CLASSROOM) – AV SYSTEM FLOW

AV3.01



TBD 44RU EQUIPMENT RACK
ESTIMATED HEAT LOAD: 21002 BTU

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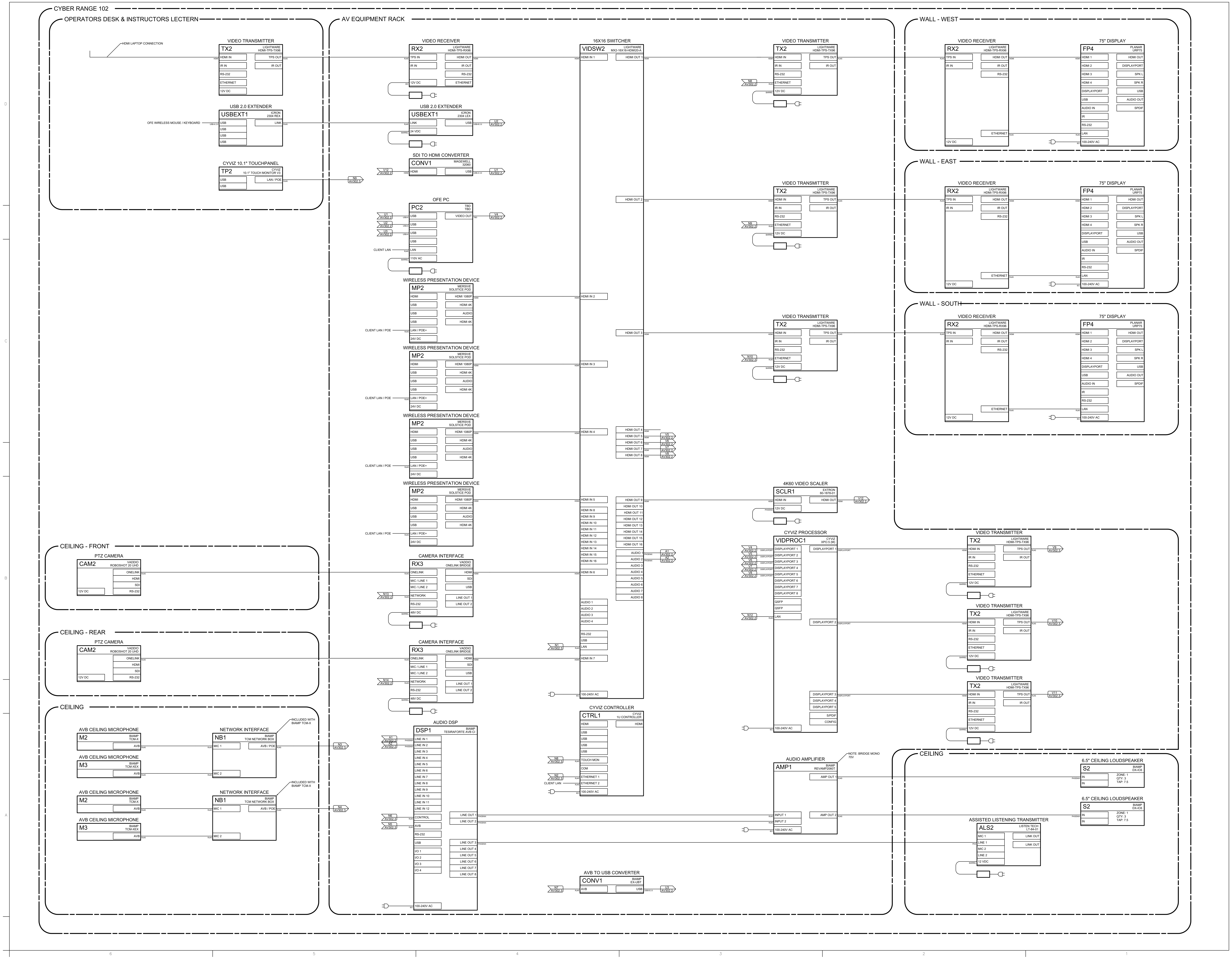
30 AUGUST 2024

Revisions

Drawing Title
CYBER RANGE CLASSROOM 102 – AV RACK ELEVATION

AV3.02.1



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Revisions

Drawing Title
CYBER RANGE CLASSROOM 102 – AV SYSTEM FLOW

AV3.02.2

CYBER RANGE 102

AV EQUIPMENT RACK

WALL - NORTH

POE+ NETWORK SWITCH

SWT2 — NETGEAR GSM4230PA-100NES

PORT 1	SFP+ 1
	SFP+ 2
PORT 3	
PORT 4	
PORT 5	
PORT 6	
PORT 7	
PORT 8	
PORT 9	
PORT 10	
PORT 11	PORT 2
PORT 12	
PORT 13	
PORT 14	
PORT 15	
PORT 16	
PORT 17	
PORT 18	
PORT 19	
PORT 20	
PORT 21	
PORT 22	
PORT 23	
PORT 24	
PORT 25	
PORT 26	
PORT 27	
PORT 28	
110V AC	

N1 AV302.3 — N2 AV302.3 — N3 AV302.3 — N4 AV302.3 — N5 AV302.3 — N6 AV302.3 — N7 AV302.3 — N8 AV302.3 — N9 AV302.3 — N10 AV302.3 — N11 AV302.3 — N12 AV302.3 — N13 AV302.3 — N14 AV302.3

LIGHTING CONTROLLER

CONT2 — VISUAL PRODUCTIONS CUECORE3

DMX IN	MIDI OUT
MIDI IN	SPIO
	USB
9-24V AC	ETHERNET — TO OFE LIGHTING NETWORK

V9 AV302.3 — V10 AV302.3 — V11 AV302.3

VIDEO RECEIVER

RX2 — LIGHTWARE HDMI-TPS-RX06

TPS IN	HDMI OUT
IR IN	IR OUT
	RS-232
12V DC	ETHERNET

TCP TO RS-232

CONV1 — IGC ITACH TCP TO SERIAL

LAN/POE	RS-232

55" VIDEO WALL DISPLAY

FP3 — PLANAR VM55MX-LX

DISPLAYPORT	DISPLAYPORT
HDMI 1	
HDMI 2	
VGA	
USB	
USB	
USB	
USB	
USB	
AUDIO IN	AUDIO OUT
IR IN	IR OUT
RS-232	RS-232
LAN	
100-240V AC	

V1 AV302.3 — V2 AV302.3 — V3 AV302.3 — V4 AV302.3 — V5 AV302.3 — V6 AV302.3 — V7 AV302.3 — V8 AV302.3

C1 AV302.3 — C2 AV302.3 — C3 AV302.3 — C4 AV302.3 — C5 AV302.3 — C6 AV302.3 — C7 AV302.3 — C8 AV302.3

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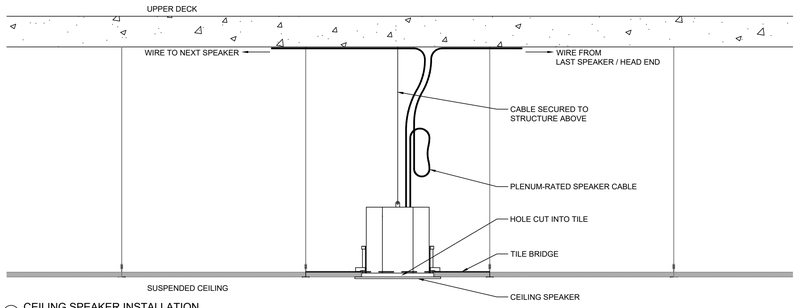
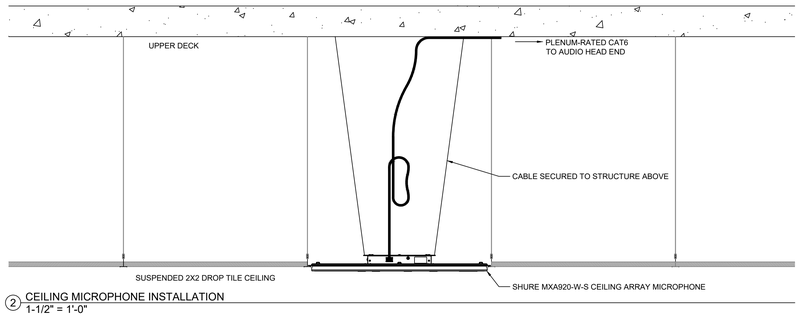
Drawing Title
CYBER RANGE CLASSROOM 102 – AV SYSTEM FLOW

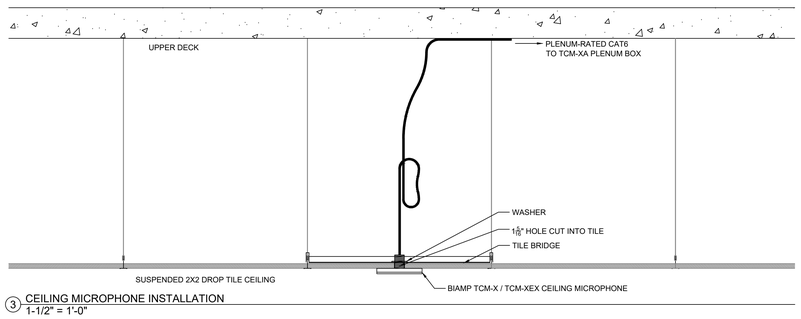
AV3.02.3



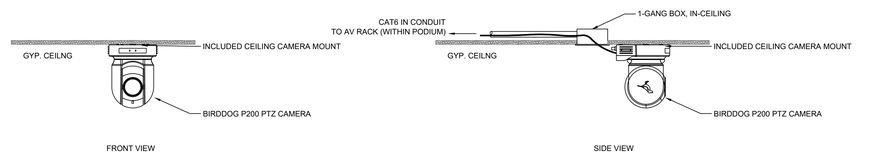
1 CEILING SPEAKER INSTALLATION
1-1/2" = 1'-0"



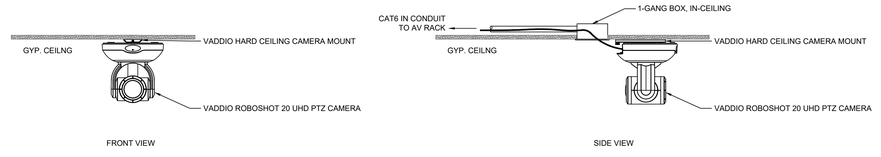
2 CEILING MICROPHONE INSTALLATION
1-1/2" = 1'-0"



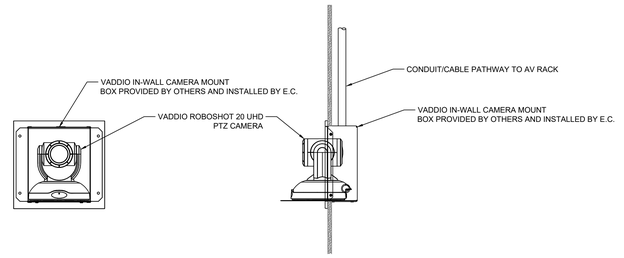
3 CEILING MICROPHONE INSTALLATION
1-1/2" = 1'-0"



4 CEILING CAMERA INSTALLATION (COMPUTER LAB)
1-1/2" = 1'-0"



5 CEILING CAMERA INSTALLATION (CYBER RANGE CLASSROOM)
1-1/2" = 1'-0"



6 IN-WALL CAMERA INSTALLATION
1-1/2" = 1'-0"

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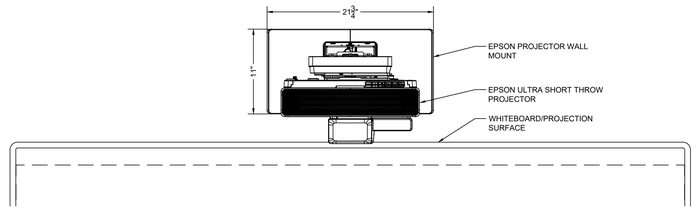
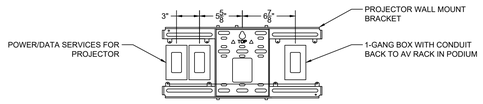
Revisions

Drawing Title
AV DETAILS

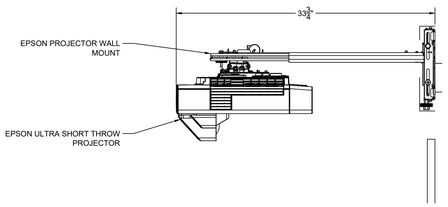
AV4.01



1 PROJECTOR MOUNTING (COMPUTER LAB)
1-1/2" = 1'-0"



2 PROJECTOR MOUNT / WALL SERVICES (COMPUTER LAB)
1-1/2" = 1'-0"



3 PROJECTOR MOUNTING (COMPUTER LAB)
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Drawing Title
AV DETAILS

AV4.02