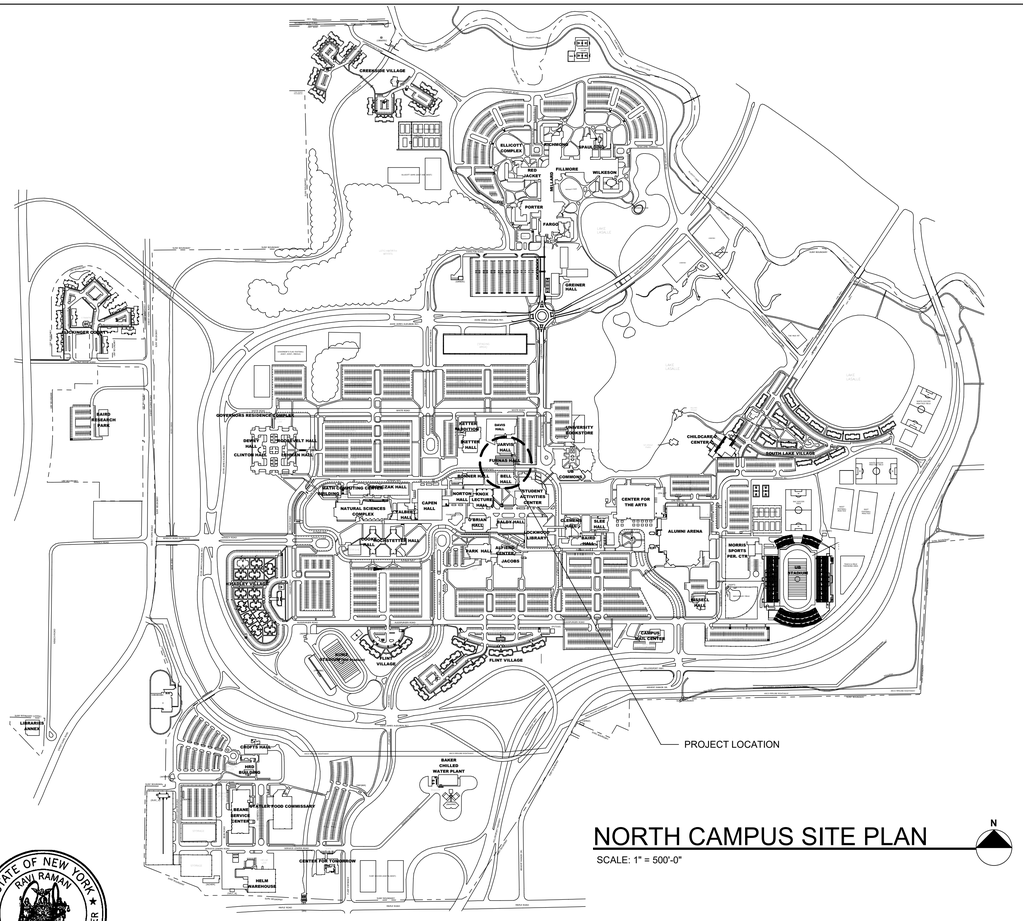
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ABBREVIATIONS

ABOVE FINISH FLOOR	AFF	MACHINE	MACH.
ACOUSTIC PANEL CEILING	APC	MANUFACTURER	MFGR.
ACOUSTIC CEILING TILE	ACT	MARBLE	MRB.
AIR CONDITIONING	A.C.	MARBLE THRESHOLD	M.T.
AIR HANDLING UNIT	A.H.U.	MASONRY	MAS.
ADJACENT	ADJ.	MASONRY OPENING	M.O.
ALUMINUM	ALUM.	MATERIAL	MATL.
ALUMINUM THRESHOLD	A.T.	MAXIMUM	MAX.
ALTERNATE	ALT	MECHANICAL	MECH.
APPROXIMATE	APPROX.	METAL	MTL.
ASPHALT	ASP.	MINIMUM	MIN.
AUTOMATIC	AUTO.	METAL TOILET PARTITION	MTP.
		MILLWORK	MW.
BASEMENT	BSMT.	MISCELLANEOUS	MISC.
BEARING	BRG.		
BLOCK	BLK.	NOT IN CONTRACT	NIC
BOARD	BD	NUMBER	No.
BRICK	BRK.	NOT TO SCALE	N.T.S.
BRICK COURSE	BC.		
BUILDING	BLDG.	OBSCURE	OBS.
		ON CENTER	O.C.
CABINET	CAB.	OPPOSITE	OPP.
CAST IRON	C.I.	OPPOSITE HAND	OPP.H.
CARPET	CPT	OPENING	OPNG.
CATCH BASIN	C.B.	OUTSIDE DIAMETER	O.D.
CEILING	CLG	OVER HEAD	O.H.
CENTER LINE	℄		
CERAMIC TILE	CT	PARTITION	PART.
CERAMIC GLAZED TILE	CGT	PAINT	PT
CERAMIC MOSAIC TILE	CMT	PLASTER	PLAS.
CLOSET	CL.	PLASTIC LAMINATE	PLAM
COLUMN	COL.	PLATE	ℙ
COMPOSITE	COMPO.	POUNDS PER CU. FT.	PCF
CONCRETE	CONC.	POUNDS PER SQ. INCH	PSI
CONCRETE MASONRY UNIT	CMU	POUNDS PER SQ. FOOT	PSF
CONDUCTOR	COND	PREFABRICATED	PREFAB.
CONSTRUCTION	CONST.		
CONTINUOUS	CONT.	QUANTITY	QTY.
CONTRACTOR	CONTR.	QUARRY TILE	QT
CONTROL JOINT	C.J.		
CORNER GUARD	CG	RADIUS	RAD.
COURSES	CRS.	REFER TO	RE:
		REFERENCE	REF.
DETAIL	DET.	REVISION	REV.
DIAMETER	DIA.	REFRIGERATOR	REFR
DIMENSION	DIM.	REGISTER	REG.
DIMENSION POINT	D.P.	REINFORCING	REINF.
DITTO	DO.	REQUIRED	REQ'D
DIVISION	DIV.	RESILIENT BASE	RB
DOWN	DN.	RISER	R.
DRAINAGE	DRN.	ROOF DRAIN	R.D.
DRAIN	DR.	ROOM	RM.
DRAWING	DWG.	ROUGH OPENING	R.O.
DRINKING FOUNTAIN	D.F.		
		SECTION	SECT.
ELECTRIC	ELEC.	SHEET	SHT.
ELEVATION	ELEV.	SHEET VINYL	SVL
EQUAL	EQ.	SIMILAR	SIM.
EQUIPMENT	EQUIP.	SLAB ON GRADE	S.O.G.
EQUIPMENT BY OWNER	E.B.O.	SOLID SURFACE MATERIAL	SSM
EXISTING	EXIST. or EX.	SPECIAL WALL COATING	SWC.
EXPANSION JOINT	E.J.	SPECIFICATION	SPEC.
EXPOSED	EXP.	SQUARE	SQ.
EXTERIOR	EXT.	SQUARE FEET	S.F.
EXTRUDED	EXTR.	STAINLESS STEEL	SS
EMERGENCY DRENCH SHOWER STATION	EWS.	STANDARD	STD.
		STEEL	STL.
FINISH	FIN.	STRUCTURAL	STRUCT.
FIRE HOSE CABINET	F.H.C.	STORAGE	STOR.
FIRE EXTINGUISHER	F.E.	SUSPENDED	SUSP.
FIRE EXTINGUISHER CABINET	F.E.C.		
FLOOR	FL	TACK BOARD	T.B.
FLOOR DRAIN	FD	TEMPERED	TEMP.
FOOTING	FTG.	THICK	THK.
FOUNDATION	FDTN.	TONGUE & GROOVE	T&G
FRAMING	FRM.	TOP & BOTTOM	T&B
FURRING	FUR.	TOP OF MASONRY	T.O.M.
		TOP OF STEEL	T.O.S.
GALVANIZED	GALV.	TOP OF WALL	T.O.W.
GAUGE	GA.	TREADS	T.
GLASS	GL.	TYPICAL	TYP.
GRAB BAR	G.B.		
GRADE	GRD.	UNDER CABINET	U.C.
GROUND	GND.	UNLESS OTHERWISE NOTED	U.O.N.
GYPSUM	GYP.	UNFINISHED	UNFIN.
GYPSUM WALLBOARD	GWB.	UNIT HEATER	U.H.
		UNIT VENTILATOR	U.V.
HANDICAPPED	HC		
HARDWARE	HDW.	VENTILATOR	VENT.
HEIGHT	HGT	VERIFY IN FIELD	V.I.F.
HIGH	H.	VERTICAL	VERT.
HIGH POINT	HP.	VESTIBULE	VEST.
HIGH PRESSURE LAMINATE	HPL.	VINYL BASE	VB
HOLLOW METAL	H.M.	VINYL COMPOSITE TILE	VCT
HORIZONTAL	HORIZ.	VINYL WALL COVERING	VWC
HOUSEKEEPING	HSKP.		
		WATER COOLER	W.C.
INSIDE DIAMETER	I.D.	WALL GUARD	WG
INSULATION	INSUL.	WELDED WIRE FABRIC	W.W.F.
INTERMEDIATE	INTER.	WIDE FLANGE	W.F.
INTERIOR	INT.	WINDOW	WIND.
INVERT	INV.	WITH	W/
		WITHOUT	W/O
JANITOR	JAN.	WORKING POINT	W.P.
JOINT	JT.	WOOD	WD.
JOIST	JST.		
LAVATORY	LAV.		
LENGTH	LGT.		
LINTEL	LTL.		
LONG	LG.		
LONG LEG HORIZONTAL	LLH		
LONG LEG VERTICAL	LLV		
LOUVER	LVR.		
LOW POINT	LP.		
LUXURY VINYL TILE	LVT		

MATERIAL SYMBOLS

EARTHWORKS
- UNDISTURBED COMPACT FILL
- DRAINAGE FILL
- COMPACTED GRANULAR SUBBASE MATERIAL

CONCRETE
- CAST-IN-PLACE/ PRECAST
- SAND/MORTAR/ PLASTER

MASONRY
- CONCRETE BLOCK
- COMMON/FACE BRICK

METAL
- ALUMINUM
- STEEL/OTHER METALS

WOOD
- WOOD FINISH
- NOMINAL
- PLYWOOD LARGE SCALE/ PARTICLE BOARD

GLASS
- GLASS
- GLASS BLOCK

INSULATION
- INSULATION
- RIGID
- SPRAY/FOAM

FINISHES
PLAN AND SECTION INDICATORS
- ACOUSTICAL CEILING TILE
- CERAMIC TILE LARGE SCALE
- METAL LATH AND PLASTER
- CARPET
- GYPSUM WALLBOARD
- TERRAZZO

PARTITION INDICATORS
- EXISTING PARTITION
- STEEL STUD & WALLBOARD PARTITION
- MASONRY PARTITION

ELEVATION INDICATORS
- BRICK
- CERAMIC TILE
- CONCRETE/ PLASTER/ GYPSUM WALLBOARD
- GLASS
- SHEET METAL

DRAFTING SYMBOLS

DETAIL SYMBOL
1 / A501 — 1: DETAIL NUMBER; A501: SHEET NUMBER

SECTION SYMBOL
1 / A501 — 1: SECTION/ELEVATION NUMBER; A501: SHEET NUMBER

ASSEMBLY SYMBOL
P1

INTERIOR ELEVATION SYMBOL
3 / 1 4 / 2 — A000: SHEET NUMBER

DOOR NUMBER SYMBOL
101A — DOOR NUMBER

WINDOW/LOUVER SYMBOL
100 / W1 — 100: OPENING NUMBER; W1: WINDOW/LOUVER TYPE DESIGNATION

ROOM NAME/NUMBER SYMBOL
ROOM NAME
000

DEMOLITION NOTE SYMBOL
1

REVISION NOTE SYMBOL
1

CONSTRUCTION NOTE SYMBOL
1

DOOR SYMBOLS
- EXISTING DOOR & FRAME TO BE REMOVED
- EXISTING DOOR & FRAME
- NEW DOOR & FRAME

PARTITION SYMBOLS
- EXISTING PARTITION TO BE REMOVED
- EXISTING PARTITION
- NEW PARTITION

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ENUMERATION OF DRAWINGS, ABBREVIATIONS, AND SYMBOLS

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CODE COMPLIANCE

THE FOLLOWING CODE REVIEW OUTLINE IS A SUMMARY OF REQUIREMENTS BASED ON THE BELOW LIST OF CODES, AS INTERPRETED BY KIDENEY ARCHITECTS. THE OUTLINE BEGINS WITH A BASIC DESCRIPTION OF APPLICABLE ANTICIPATED CONDITIONS, WHICH SET THE PARAMETERS FOR INTERPRETATION OF THE CODE (I.E. OCCUPANCY TYPE, ONSTRUCTION TYPE, BUILDING HEIGHT AND BASIC FLOOR AREA). THIS SUMMARY GOES ON TO IDENTIFY THE REQUIREMENTS FOR AN INTERIOR BUILD OUT OF THIS CONSTRUCTION TYPE AND OCCUPANCY. GENERAL CODE REQUIREMENTS RELATING TO SPACE, FIRE SAFETY, EXISTING AND OTHER ISSUES ARE IDENTIFIED.

APPLICABLE CODES

- NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE (19 NYCRR Parts 1220 through 1227), includes the 2020 NYS Code Books:
  - 2020 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
  - 2020 BUILDING CODE OF NEW YORK STATE (BCNYS)
  - 19 NYCRR Part 300 (Universal Symbol of Access)
- NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE (19 NYCRR Part 1240)
  - 2020 Energy Conservation Construction Code of New York State (ECCCNYS)
  - ASHRAE 90.1-2016, as amended by 19 NYCCR Part 1240
- ICC/ANSI A117.1-2009 - ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES 2009
- NFPA 10 PORTABLE FIRE EXTINGUISHERS

CODE ANALYSIS SYMBOL LEGEND

SYMBOL	MEANING
XX / XX / XX	EGRESS WIDTH / EXIT CAPACITY / ANTICIPATED LOAD
SF / X / XX	SQUARE FOOTAGE / OCCUPANT LOAD / REQUIRED EXIT UNITS
XXX	TRAVEL DISTANCE (FT)/ROUTE OF EXIT ACCESS TO FLOOR SEPARATION
ROOM NAME / XXX	ROOM NAME / ROOM NUMBER
	2 HR. FIRE BARRIER - EXIST.
	2 HR. FIRE BARRIER
	1 HR. FIRE BARRIER OR PARTITION
72	STAIR EXIT LOAD FROM UPPER LEVEL
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
EWS	EYEWASH-STATION
FVC	FIRE VALVE CABINET
ADA	ACCESSIBLE FIXTURE
EHO	ELECTROMAGNETIC HOLD OPEN
EXIT	EMERGENCY EXIT
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
ACCESS	BUILDING ENTRANCE / ACCESSIBLE ENTRANCE

CODE SUMMARY

CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE

BCNYS 304 - OCCUPANCY CLASSIFICATION:	BUSINESS GROUP B (BCNYS 304.1) - Educational occupancies for students over the 12th grade and Laboratories: testing and research
EBCNYS CH. 8 - CLASSIFICATION OF WORK:	ALTERATION - LEVEL 2 (ECBNYS 603)

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE

BCNYS 403 HIGH-RISE BUILDINGS

• BCNYS 403.3 AUTOMATIC SPRINKLER SYSTEM - Buildings and structures shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and a secondary water supply where required by Section 403.3.3.	EXISTING BUILDING IS FULLY SPRINKLERED

BNCYS 428 HIGHER EDUCATION LABORATORIES

• BCNYS 428.3.1 Separation from other nonlaboratory areas and 428.3.2 Separation from other laboratory suites.	1 HOUR FIRE BARRIER REQUIRED (Level 7-10) 2 HOUR FIRE BARRIER REQUIRED (Leve7-10)

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

TABLE 504.3 BUILDING HEIGHT ALLOWED (SPRINKLERED): 180 FEET	EXISTING HEIGHT: ± 166 FEET
TABLE 504.4 BUILDING STORIES ALLOWED: 12 STORIES	EXISTING STORIES ABOVE GRADE: 10
TABLE 506.2 BUILDING AREA ALLOWED: UNLIMITED	EXISTING TOTAL BUILDING AREA: **92,578 GSF**
• FIRST FLOOR GROSS FLOOR AREA:	7,046 GSF
• SECOND FLOOR GROSS FLOOR AREA:	9,541 GSF
• THIRD FLOOR GROSS FLOOR AREA:	9,484 GSF
• FOURTH FLOOR GROSS FLOOR AREA:	9,495 GSF
• FIFTH FLOOR GROSS FLOOR AREA:	9,474 GSF
• SIXTH FLOOR GROSS FLOOR AREA:	9,510 GSF
• SEVENTH FLOOR GROSS FLOOR AREA:	9,558 GSF
• EIGHT FLOOR GROSS FLOOR AREA:	9,467 GSF
• NINTH FLOOR GROSS FLOOR AREA:	9,507 GSF
• **NINTH FLOOR RENOVATED FLOOR AREA:**	**6,450 GSF (≤ 10% OVERALL BUILDING AREA)**
• TENTH FLOOR GROSS FLOOR AREA:	9,496 GSF
TABLE 508.4 SEPERATED OCCUPANCIES:	NO SEPARATION REQUIREMENT BETWEEN GROUP B OCCUPANTS

CHAPTER 6 - TYPE OF CONSTRUCTION

BCNYS TABLE 601 - CONSTRUCTION CLASSIFICATION:	IB	
• PRIMARY STRUCTURAL FRAME:	REQD: 2 HOUR	EXIST: 2 HOUR
• BEARING WALL:	REQD: 2 HOUR	EXIST: 2 HOUR
• NONBEARING WALL - EXTERIOR:	REQD: SEE BCNYS TABLE 602	EXIST: 2 HOUR
• NONBEARING WALL - INTERIOR:	REQD: 0 HOUR	EXIST: 1 HOUR
• *NOTE THAT A HIGHER FIRE-RESISTANCE RATING IS REQUIRED AT NEW PARTITIONS BETWEEN LABORATORY SUITES. REFER TO BCNYS 428 SUMMARY ABOVE.*		
• FLOOR CONSTRUCTION:	REQD: 2 HOUR	EXIST: 2 HOUR
• ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:	REQD: 1 HOUR	EXIST: 2 HOUR
BCNYS TABLE 602 - FIRE-RESISTANCE RATING FOR EXTERIOR WALL SEPERATION DISTANCE: X ≥ 30	0 HOUR	

CHAPTER 7 - FIRE AND SMOKE PROTECTION

BCNYS 707 FIRE BARRIERS (SEE BCNYS 428 SUMMARY)	
BCNYS 708.3 FIRE PARTITIONS: 0 HOUR REQUIRED (FULLY SPRINKLERED)	1 HOUR PROVIDED

BCNYS TABLE 716.1(2) OPENING FIRE PROTECTION ASSEMBLIES, RATINGS, AND MARKINGS

• OTHER FIRE BARRIERS REQUIRING ONE HOUR RATING (SEE BCNYS 428) (FIRE RESISTANCE)	
• FIRE DOOR ASSEMBLY RATING:	1 HOUR
• DOOR VISION PANEL SIZE:	MAXIMUM SIZE TESTED
• FIRE-RATED GLAZING MARKING DOOR VISION PANEL:	D-H-W-60
• MINIMUM SIDELIGHT/TRANSOM ASSEMBLY RATING:	1 HOUR FIRE RESISTANCE
• FIRE-RATED GLAZING MARKING SIDELIGHT/TRANSOM PANEL	W-60
• OTHER FIRE BARRIERS REQUIRING TWO HOUR RATING (SEE BCNYS 428) (FIRE RESISTANCE)	
• FIRE DOOR ASSEMBLY RATING:	2 HOUR
• DOOR VISION PANEL SIZE:	MAXIMUM SIZE TESTED
• FIRE-RATED GLAZING MARKING DOOR VISION PANEL:	D-H-T-W-120
• MINIMUM SIDELIGHT/TRANSOM ASSEMBLY RATING:	2 HOUR FIRE RESISTANCE
• FIRE-RATED GLAZING MARKING SIDELIGHT/TRANSOM PANEL	W-120
• FIRE PARTITIONS: CORRIDOR WALLS	
• FIRE DOOR ASSEMBLY RATING:	1/3 HOUR
• DOOR VISION PANEL SIZE:	MAXIMUM SIZE TESTED
• FIRE-RATED GLAZING MARKING DOOR VISION PANEL:	D-20
• MINIMUM SIDELIGHT/TRANSOM ASSEMBLY RATING:	3/4 HOUR FIRE PROTECTION
• FIRE-RATED GLAZING MARKING SIDELIGHT/TRANSOM PANEL	D-H-OH-45

CHAPTER 8 - INTERIOR FINISHES

BCNYS 803.5 TEXTILE WALL COVERINGS	
• METHOD B PROTOCOL OF NFPA 265	
• SECTION 803.5.2 CLASS A FLAME SPREAD INDEX IN ACCORDANCE TO ASTM E84 OR UL 723	
TABLE 803.13 INTERIOR WALL AND CEILING REQUIREMENTS FOR GROUP B (SPRINKLERED)	
• INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS:	CLASS B
• CORRIDOR AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS:	CLASS C
• ROOMS AND ENCLOSED SPACES:	CLASS C
SECTION 804 INTERIOR FLOOR FINISH	
• SECTION 804.4.2 MINIMAL CRITICAL RADIANT FLUX:	CLASS II

CHAPTER 9 FIRE PROTECTION AND LIFE SAFETY SYSTEMS

BCNYS 906 PORTABLE FIRE EXTINGUISHERS	
• BCNYS 906.1.1 - REQUIRED IN GROUP B OCCUPANCIES	PROVIDED (BY OWNER)
• BCNYS 906.1.3 - REQUIRED IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED OR DISPENSED.	PROVIDED (BY OWNER)
• TABLE 906.3(1) FOR CLASS A FIRE HAZARDS (ORDINARY HAZARD OCCUPANCY) - MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER: 75 FEET	PROVIDED
BCNYS 907 FIRE ALARM AND DETECTION SYSTEMS	
• BCNYS 907.2.2.1 - A MANUAL FIRE ALARM SYSTEM IS REQUIRED IN GROUP B OCCUPANCIES WHERE THE COMBINED OCCUPANT LOAD OF ALL FLOORS IS MORE THAN 500.	EXISTING
• BCNYS 907.2.10.7 - SMOKE DETECTION IS REQUIRED.	PROVIDED
BCNYS 912 FIRE DEPARTMENT CONNECTIONS	
• BCNYS 912.2.2 - ON EXISTING BUILDINGS THE FIRE DEPARTMENT CONNECTION SHALL BE FULLY VISIBLE AND RECOGNIZEABLE FROM NEAREST POINT OF FIRE VEHICLE ACCESS AND INDICATED BY AN APPROVED SIGN.	EXISTING
BCNYS 913 FIRE PUMPS	
• BCNYS 913.2.1 - FIRE PUMPS SHALL BE LOCATED IN ROOMS SEPERATED BY 2 HOUR FIRE BARRIERS OR 2 HOUR HORIZONTAL ASSEMBLIES.	EXISTING

CHAPTER 10 - MEANS OF EGRESS

BCNYS 1004 OCCUPANT LOAD

- BCNYS 1004.3 MULTIPLE FUNCTION OCCUPANT LOAD - THE DESIGN OCCUPANT LOAD IS BASED ON THE FLOOR AREA OF EACH FUNCTION CALCULATED INDEPENDENTLY.
  - **OCCUPANT LOAD PER SPACE METHOD (as shown in each space) = 124 Occupants**
  - OCCUPANT LOAD PER FLOOR GSF = GROUP B (BUSINESS) = 9,507 GSF/150 GSF = 63 Occupants

BCNYS 1005 MEANS OF EGRESS SIZING

• BCNYS 1005.3.1 STAIRWAYS	OCCUPANT LOAD x .2
• BCNYS 1005.3.1 OTHER EGRESS COMPONENTS	OCCUPANT LOAD x .15

- BCNYS 1005.5 DISTRIBUTION OF MINIMUM EGRESS WIDTH AND REQUIRED CAPACITY
  - THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.

BCNYS 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS

- TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY

OCCUPANCY	MAX. OCCUPANT LOAD	MAX. PATH OF EGRESS TRAVEL DISTANCE
BUSINESS	49	100 FEET

- BCNYS 1005.5 DISTRIBUTION OF MINIMUM EGRESS WIDTH AND REQUIRED CAPACITY
  - THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.
- TABLE 1006.3.2 MINIMUM NUMBER OF EXITS PER STORY

OCCUPANT LOAD	MINIMUM NUMBER OF EXITS	EXITS PROVIDED
1-500	2	2 (EXISTING)

BCNYS 1009 ACCESSIBLE MEANS OF EGRESS

- BCNYS 1009.1 ACCESSIBLE MEANS OF EGRESS REQUIRED FOR ACCESSIBLE SPACES.
- BCNYS 1010.1.1 DOOR OPENING TO BE SUFFICIENT FOR THE OCCUPANT LOAD AND PROVIDE CLEAR OPENING WIDTH OF 32" MIN. REQUIRED: YES PROVIDED: YES

BCNYS 1010 DOORS, GATES AND TURNSTILES

- BCNYS 1010.1.10 SWINGING DOORS SERVING AN OCCUPANT LOAD OF 50 OR MORE SHALL BE PROVIDED WITH PANIC HARDWARE. REQUIRED: YES PROVIDED: YES

BCNYS 1010 EXIST SIGNS

- BCNYS 1013.1 EXITS SHALL BE MARKED BY EXIT SIGNS READILY VISIBLE. REQUIRED: YES PROVIDED: YES
- BCNYS 1013.3 EXIST SIGNS SHALL BE ILLUMINATED. REQUIRED: YES PROVIDED: YES

BCNYS 1017 EXIST ACCESS TRAVEL DISTANCE

- BCNYS 1017.2 EXIT ACCESS TRAVEL DISTANCE W/ SPRINKLER SYSTEM ALLOWED: 300' PROVIDED: 163'

BCNYS 1020 CORRIDORS

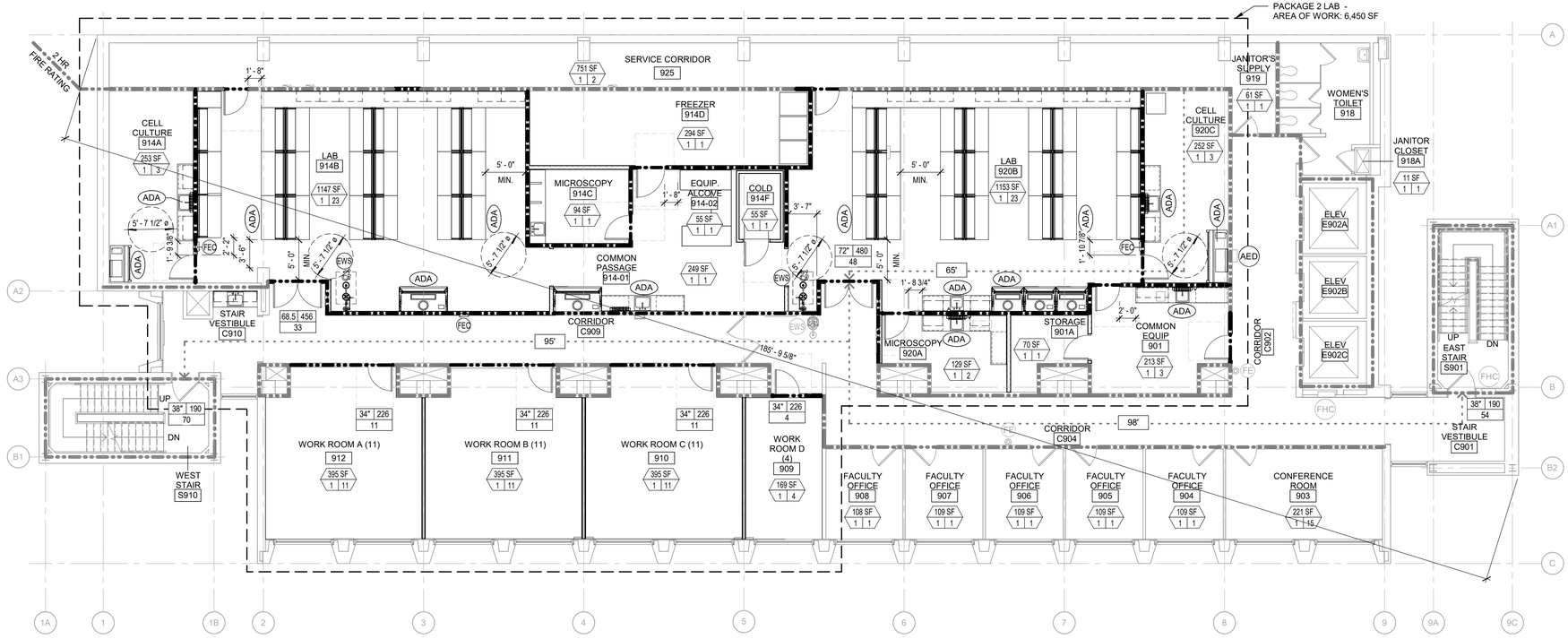
- TABLE 1020.1 CORRIDOR FIRE-RESISTANCE RATING (FIRE PARTITION) PROVIDED: 1 HOUR

OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR	REQ'D. FIRE-RESISTANCE RATING
GROUP B	GREATER THAN 30	0 HOUR (WITH SPRINKLER SYSTEM)

- BCNYS 1020.2 MINIMUM CORRIDOR WIDTH REQUIRED: 44" PROVIDED: 71"
- BCNYS 1020.4 DEAD END CORRIDORS SHALL NOT EXCEED 50 FEET EXISTING COMPLIES

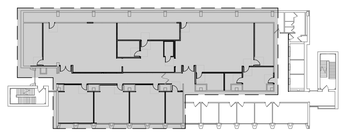
CHAPTER 11 - ACCESSIBILITY

BCNYS 1102 DESIGN - BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH THIS CODE AND ICC A117.1.



NINTH FLOOR LIFE SAFETY PLAN

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



KEY PLAN

SCALE: NTS

Kideney Architects

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REGISTERED ARCHITECT ANTHONY M. KIDENEY 036591 STATE OF NEW YORK

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NINTH FLOOR LIFE SAFETY PLAN

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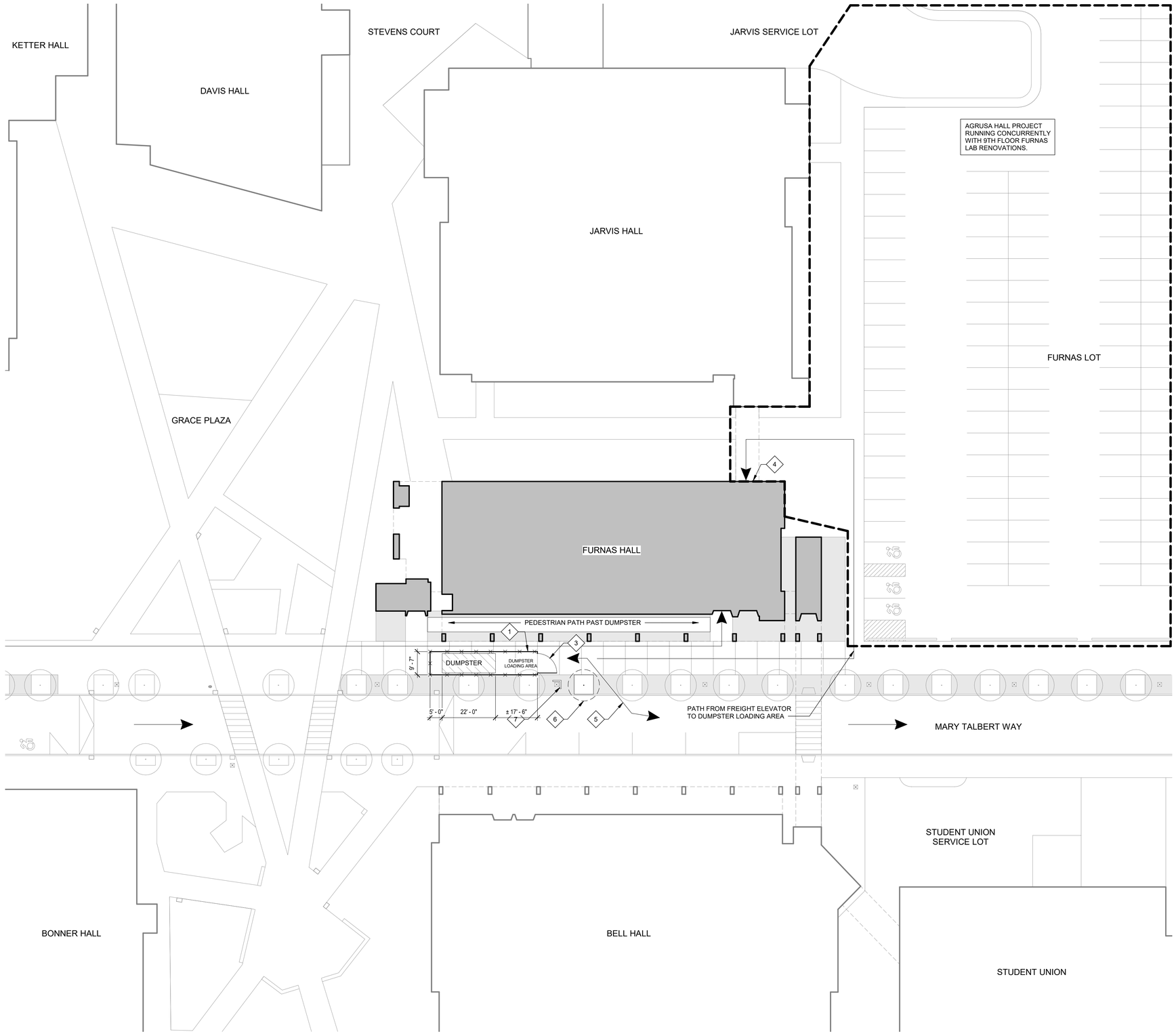
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SITE STAGING PLAN

SCALE: 1" = 20'-0"

1 / 9-PH100

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GENERAL NOTES

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4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND DIMENSIONS. WHERE DIMENSIONAL DISCREPENCIES ARISE, REVIEW IN THE FIELD WITH ARCHITECT AND/OR ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK OR ORDERING MATERIALS.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION STAGING AREA AND CONSTRUCTION ACCESS ROUTE TO BUILDING, INCLUSIVE OF EXISTING TREES, ASPHALT PAVERS, CONCRETE SIDEWALKS, GRANITE/CONCRETE CURBS, AND DETECTABLE TACTILE WARNING PAVING AT CROSSWALKS. THE CONTRACTOR SHALL NOT CUT OR PATCH EXISTING CONSTRUCTION THAT WILL CREATE AN UNSAFE CONDITION. REVIEW AREAS OF CONCERN WITH THE ARCHITECT AND/OR ENGINEER OF RECORD IN ADVANCE OF STARTING WORK.
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8. ALL FENCING AND GATES TO HAVE SCREENING MESH. PROVIDE UNIVERSITY AT BUFFALO BRANDING / GRAPHICS ON SCREENING MESH WHERE DESIGNATED ON SITE PLAN. COORDINATE FINAL FENCE LOCATION ON SITE WITH UNIVERSITY AT BUFFALO. CONTRACTOR WILL BE REQUIRED TO RELOCATE FENCING / PLASTIC BARRIERS AS REQUIRED.
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CONSTRUCTION NOTES

1. TRAFFIC BARRIER / JERSEY BARRIER W/ 6'-0" CHAIN LINK FENCE INSERT.
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3. 10'-0" WIDE FENCE ACCESS GATE.
4. CONTRACTOR BUILDING ACCESS THROUGH ENTRY LOBBY.
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SITE STAGING LEGEND

- CONSTRUCTION FENCE
- TRAFFIC BARRIER
- EXISTING TREE
- LIGHT STANDARD
- EXISTING SIDEWALK
- EXISTING ASPHALT
- STAGING AREA
- EXISTING FIRE HYDRANT

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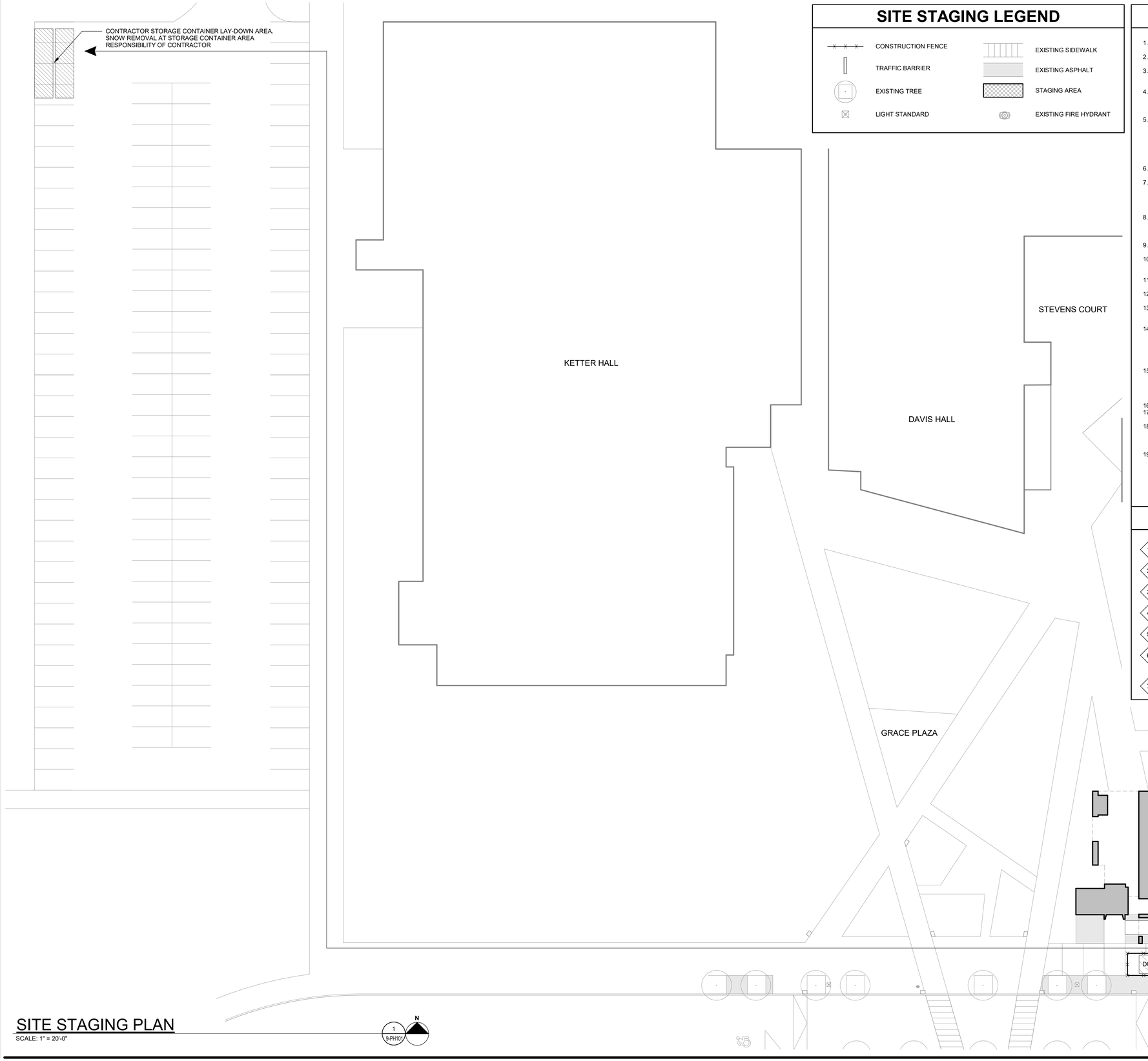
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SITE STAGING LEGEND

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SITE STAGING PLAN

SCALE: 1" = 20'-0"

1 / 9-PH101

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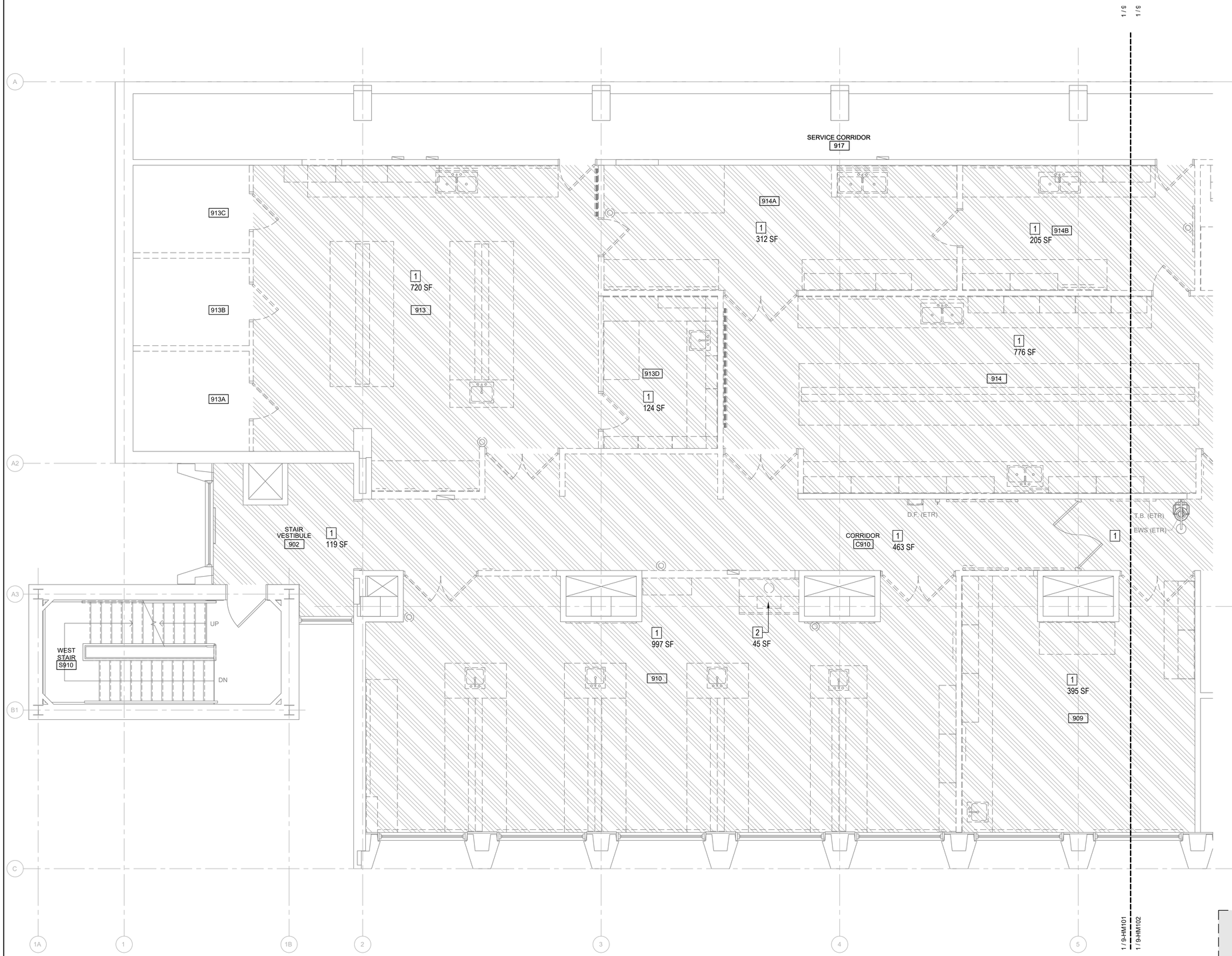
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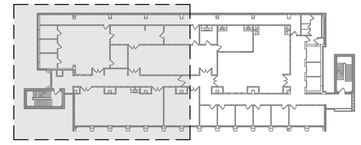
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NINTH FLOOR ABATEMENT PLAN - WEST

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

1 / 9-HM101



KEY PLAN

SCALE: NTS

GENERAL DRAWING NOTES:

A. PERFORM ALL WORK, INCLUDING AREA CONTAINMENT MEASURES AND REMOVAL, IN STRICT ACCORDANCE WITH: THE PROJECT SPECIFICATION, ALL FEDERAL, STATE AND LOCAL REGULATIONS, AND ANY APPROPRIATE APPLICABLE VARIANCES AND SITE-SPECIFIC VARIANCES. APPLICABLE REGULATIONS INCLUDE, BUT ARE NOT LIMITED TO: OSHA 29 CFR 1926 SUBPART Z, 40 CFR PART 763 (AHERA), 40 CFR PART 61 SUBPART M (NESHAP STANDARD FOR DEMOLITION AND RENOVATION), AND NEW YORK STATE INDUSTRIAL CODE RULE 56.

B. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.

C. AREAS UNDER ABATEMENT SHALL BE PROPERLY POSTED WITH WARNING SIGNS AND SECURED TO PREVENT UNAUTHORIZED ENTRIES.

D. KEEP THE WORK AREA IN A CLEAN AND SAFE CONDITION, PROVIDE TEMPORARY PROTECTION, PROTECT BUILDING MATERIALS SCHEDULED TO REMAIN, AND PREVENT UNAUTHORIZED ACCESS DURING THE DURATION OF THE PROJECT. CLEAN UP ALL CONTAINMENT WORK AREAS; SPECIFICALLY TAPE/ADHESIVES RESIDUE FROM ALL SURFACES. REPAIR DAMAGE CAUSED AS A RESULT OF INADEQUATE TEMPORARY PROTECTION OR PREPARATION AND ABATEMENT ACTIVITIES, INCLUDING DAMAGE TO FINISHES RESULTING FROM CONTAINMENT MEASURES.

E. REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR COORDINATION OF SCOPE.

F. ALL ABATEMENT AND/OR REMOVAL OF ASBESTOS CONTAINING MATERIALS MUST PASS VISUAL INSPECTION AND CLEARANCE PROCEDURES PER 12NYCRR56 BEFORE GENERAL CONSTRUCTION WORK MAY COMMENCE.

G. A SITE SPECIFIC VARIANCE FOR THIS PROJECT HAS NOT BEEN APPLIED FOR. ANY VARIANCE APPLICATION PREPARED BY THE CONTRACTOR OR ITS AGENT MUST BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO SUBMISSION TO THE STATE OF NEW YORK DEPARTMENT OF LABOR ENGINEERING SERVICES FOR PROCESSING, THE OWNER SHALL BEAR NO ADDITIONAL COST AS A RESULT OF THE APPROVAL OF, THE DENIAL OF, AND/OR CONDITIONS SET FORTH WITHIN THE SITE SPECIFIC VARIANCE.

H. THE PROJECT MANUAL INCLUDES EXISTING HAZARDOUS MATERIAL INFORMATION FOR REFERENCE. MAINTAIN A COPY OF THE REPORT ON-SITE FOR THE DURATION OF THE PROJECT. QUANTITIES REPORTED WITHIN THE REPORT ARE APPROXIMATED. ASBESTOS CONTAINING MATERIALS IDENTIFIED IN THE REPORT ARE TO BE ABATED PRIOR TO ANY CONSTRUCTION THAT COULD DISTURB THESE MATERIALS.

I. IF ADDITIONAL ASBESTOS AND/OR SUSPECT MATERIAL NOT PREVIOUSLY IDENTIFIED ARE DISCOVERED AND/OR DISTURBED DURING CONSTRUCTION, ALL OPERATIONS SHALL CEASE AND THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY FOR FURTHER DIRECTION. DO NOT COLLECT AND/OR ANALYZE BULK SAMPLES OF SUSPECT MATERIALS WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

KEYED ASBESTOS REMOVAL NOTES

1 REMOVE THE FLOOR TILES (ACM) AND FLOOR TILE MASTIC (ACM) FROM THE FUNCTIONAL SPACE INDICATED TO BARE CONCRETE. NO RESIDUAL MASTIC TO REMAIN. REMOVE CASEWORK, WORK BENCHES AND CABINETRY TO ACCESS FLOORING UNDERNEATH.

2 REMOVE CEMENTITIOUS PANELS (ACM) FROM INTERIOR OF LABORATORY EXHAUST HOOD AS INTACT COMPONENTS.

LEGEND:

APPROXIMATE LOCATION OF FLOOR TILE AND FLOOR TILE MASTIC REMOVAL. REFER TO KEYED ASBESTOS REMOVAL NOTES 1 & 2

ENVIRONMENTAL DECONTAMINATION & REMOVAL NOTES:

A. REFERENCE SPECIFICATION 02 9000 AND COORDINATE WITH PD- AND MD- DRAWINGS.

B. REMOVE AND PROPERLY DISPOSE OF CHEMICAL EXHAUST HOODS, THE ASSOCIATED DUCTWORK AND EXHAUST FANS, ANY ACID WASTE PIPING, ASSOCIATED TRAPS AND SUMP BASINS, THE LABORATORY TABLES/SINKS, AND ANY WASTE LIQUIDS GENERATED IN DECONTAMINATION.

C. CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED TO REMOVE MATERIALS AND SAFELY TRANSPORT TO A DESIGNATED ZONE FOR DECONTAMINATION. ALL WASTE LIQUID GENERATED IN THE DECONTAMINATION PROCESS SHALL BE COLLECTED AND DRUMMED ALONG WITH DEPOSITS, AND BE PROPERLY CHARACTERIZED.

D. BIOSAFETY HOODS IN ROOM 914C & 914D HAVE LABELS IDENTIFYING THE USE OF MERCURY. HOODS, PIPING AND TRAPS ARE TO ASSUME MERCURY IS PRESENT.

E. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OWNER'S REPRESENTATIVE THE LABORATORY TESTING REQUIRED POST REMOVAL FOR CHARACTERIZATION AND DISPOSAL.

F. ACID WASTE GLASS PIPING SHALL BE DISASSEMBLED AND CONTAINERIZED INTACT WITHOUT SHATTERING.

G. FOLLOWING DECONTAMINATION ALL CHEMICAL EXHAUST HOODS, THE ASSOCIATED DUCTWORK AND EXHAUST FANS, ANY ACID WASTE PIPING, ASSOCIATED TRAPS AND SUMP BASINS, AND THE LABORATORY TABLES/SINKS SHALL BE INSPECTED FOR CLEANLINESS BY THE OWNERS REPRESENTATIVE PRIOR TO DISPOSAL OR RECYCLING.

UNIVERSAL / HAZARDOUS WASTE GENERAL REMOVAL NOTES:

A. REFERENCE SPECIFICATIONS 02 86 00 AND 02 87 00.

B. COORDINATE REMOVALS WITH ED- AND FD- DWGS.

C. PRIOR TO ANY ABATEMENT ACTIVITIES - UNIVERSAL WASTES, AS IDENTIFIED IN 6 NYCRR 374-3 AND THE EPA'S CFR 40 PART 273, AND HAZARDOUS WASTES SHALL BE REMOVED INTACT AND SAFELY STORED FOR PROPER DISPOSAL. WASTE TO BE REMOVED AND DISPOSED OF UNDER THIS CONTRACT INCLUDES MERCURY CONTAINING FLORESCENT BULBS, MERCURY CONTAINING THERMOSTATS, BATTERY OPERATED/EQUIPED DEVICES, FLUORESCENT LIGHT BALLASTS, WINDOW AIR-CONDITIONERS, WALK-IN COOLER COMPRESSORS.

D. TEMPORARY LIGHTING AND EMERGENCY LIGHTING SHALL BE UTILIZED AS THE EXISTING MERCURY (Hg) CONTAINING FLUORESCENT BULBS AND LEAD CONTAINING BATTERIES ARE COLLECTED.

E. ANY COMPONENTS OF THE FIRE ALARM SYSTEM, EMERGENCY EXIT SYSTEM, FIRE EXTINGUISHERS, AND THERMOSTATS MUST REMAIN IN SERVICE AND FUNCTIONAL THROUGHOUT WORK UNTIL THEY CAN BE SAFELY REPLACED.

KEYED UNIVERSAL / HAZARDOUS WASTE REMOVAL NOTE:

(AW) REMOVE GLASS ACID DRAIN PIPING ABOVE 8TH FLOOR CEILING AND SERVICING EQUIPMENT ON 9TH FLOOR. REFERENCE PD- DRAWINGS.

Kideney Architects

Kideney Architects, P.C.

ARCHITECTS | PLANNERS
INTERIORS | LANDSCAPE DESIGN

143 Genesee Street
Buffalo, New York 14203
716.249.3837 | kideney.com

CONSULTANT: ENCORUS GROUP ENGINEERING
CERTIFICATE OF AUTHORIZATION: # 0020000

11-10-2025

STATE OF NEW YORK · ROBERT ROSS TRAINORI II · 090198 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2026
STAMP AND SIGNATURE

RENOVATE LABS FURNAS 913,914 DISCIPLINARY EXCELLENCE

UNIVERSITY AT BUFFALO
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215 MARY TALBERT WAY,
BUFFALO, NY 14260

PERMIT SET

NINTH FLOOR ABATEMENT PLAN - WEST

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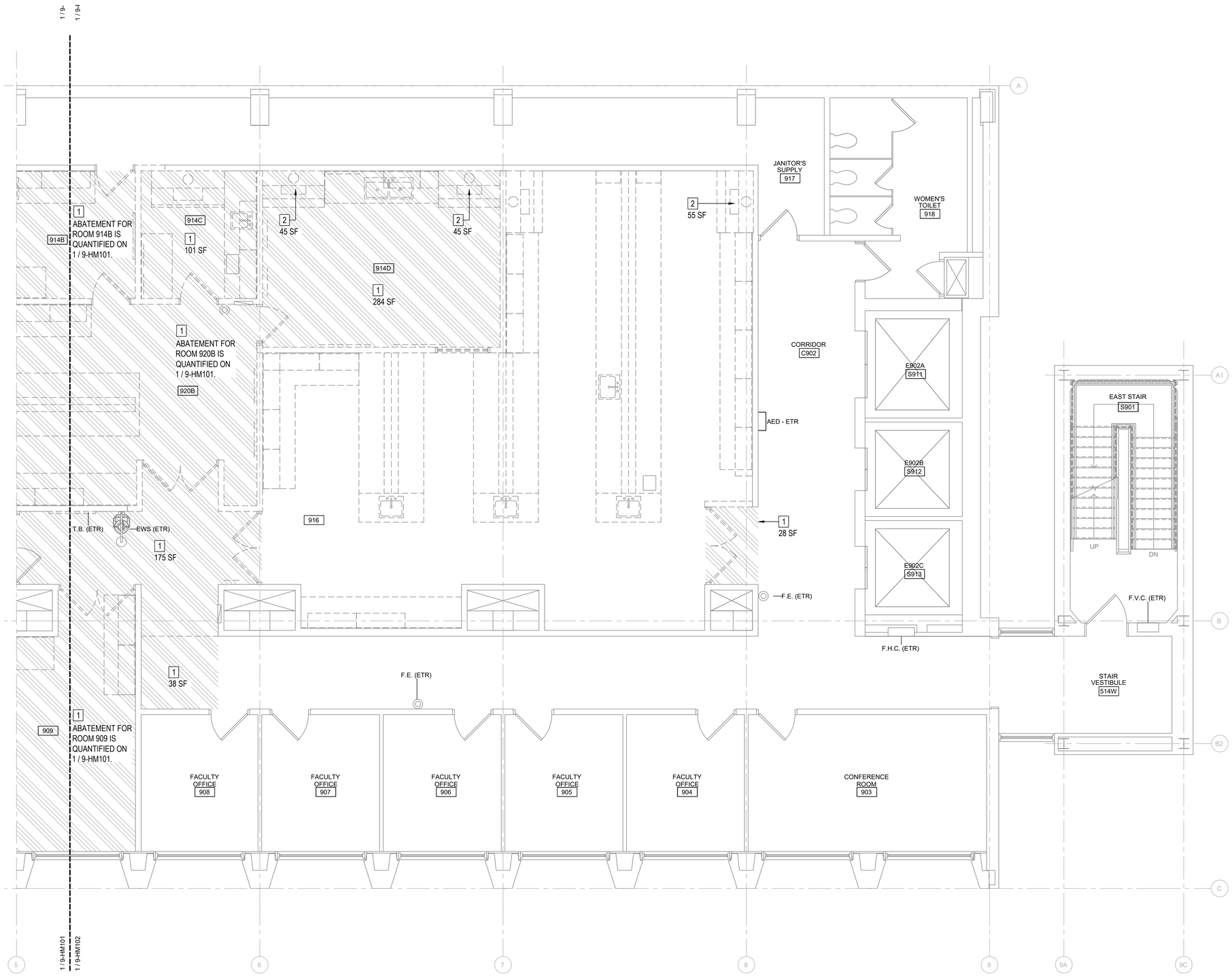
No.	DATE	DESCRIPTION

REVISIONS:

CHECKED BY:	DRAWN BY:
RRT	EJR
KA PROJECT NO.	DATE:
2023035.03	11/12/2025

CLIENT PROJECT NO.
2025-088

DRAWING NO.
9-HM101



NINTH FLOOR ABATEMENT PLAN - EAST

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

1 / 9-HM102

GENERAL DRAWING NOTES:

A. PERFORM ALL WORK, INCLUDING AREA CONTAINMENT MEASURES AND REMOVAL, IN STRICT ACCORDANCE WITH: THE PROJECT SPECIFICATION, ALL FEDERAL, STATE AND LOCAL REGULATIONS, AND ANY APPROPRIATE APPLICABLE VARIANCES AND SITE-SPECIFIC VARIANCES. APPLICABLE REGULATIONS INCLUDE, BUT ARE NOT LIMITED TO: OSHA 29 CFR 1926 SUBPART Z, 40 CFR PART 763 (AHERA), 40 CFR PART 61 SUBPART M (NESHAP STANDARD FOR DEMOLITION AND RENOVATION), AND NEW YORK STATE INDUSTRIAL CODE RULE 56.

B. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.

C. AREAS UNDER ABATEMENT SHALL BE PROPERLY POSTED WITH WARNING SIGNS AND SECURED TO PREVENT UNAUTHORIZED ENTRIES.

D. KEEP THE WORK AREA IN A CLEAN AND SAFE CONDITION, PROVIDE TEMPORARY PROTECTION, PROTECT BUILDING MATERIALS SCHEDULED TO REMAIN, AND PREVENT UNAUTHORIZED ACCESS DURING THE DURATION OF THE PROJECT. CLEAN UP ALL CONTAINMENT WORK AREAS; SPECIFICALLY TAPE/ADHESIVES RESIDUE FROM ALL SURFACES. REPAIR DAMAGE CAUSED AS A RESULT OF INADEQUATE TEMPORARY PROTECTION OR PREPARATION AND ABATEMENT ACTIVITIES, INCLUDING DAMAGE TO FINISHES RESULTING FROM CONTAINMENT MEASURES.

E. REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR COORDINATION OF SCOPE.

F. ALL ABATEMENT AND/OR REMOVAL OF ASBESTOS CONTAINING MATERIALS MUST PASS VISUAL INSPECTION AND CLEARANCE PROCEDURES PER 12NYCRR56 BEFORE GENERAL CONSTRUCTION WORK MAY COMMENCE.

G. A SITE SPECIFIC VARIANCE FOR THIS PROJECT HAS NOT BEEN APPLIED FOR. ANY VARIANCE APPLICATION PREPARED BY THE CONTRACTOR OR ITS AGENT MUST BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO SUBMISSION TO THE STATE OF NEW YORK DEPARTMENT OF LABOR ENGINEERING SERVICES FOR PROCESSING, THE OWNER SHALL BEAR NO ADDITIONAL COST AS A RESULT OF THE APPROVAL OF, THE DENIAL OF, AND/OR CONDITIONS SET FORTH WITHIN THE SITE SPECIFIC VARIANCE.

H. THE PROJECT MANUAL INCLUDES EXISTING HAZARDOUS MATERIAL INFORMATION FOR REFERENCE. MAINTAIN A COPY OF THE REPORT ON-SITE FOR THE DURATION OF THE PROJECT. QUANTITIES REPORTED WITHIN THE REPORT ARE APPROXIMATED. ASBESTOS CONTAINING MATERIALS IDENTIFIED IN THE REPORT ARE TO BE ABATED PRIOR TO ANY CONSTRUCTION THAT COULD DISTURB THESE MATERIALS.

I. IF ADDITIONAL ASBESTOS AND/OR SUSPECT MATERIAL NOT PREVIOUSLY IDENTIFIED ARE DISCOVERED AND/OR DISTURBED DURING CONSTRUCTION, ALL OPERATIONS SHALL CEASE AND THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY FOR FURTHER DIRECTION. DO NOT COLLECT AND/OR ANALYZE BULK SAMPLES OF SUSPECT MATERIALS WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

KEYED ASBESTOS REMOVAL NOTES

1 REMOVE THE FLOOR TILES (ACM) AND FLOOR TILE MASTIC (ACM) FROM THE FUNCTIONAL SPACE INDICATED TO BARE CONCRETE. NO RESIDUAL MASTIC TO REMAIN. REMOVE CASEWORK, WORK BENCHES AND CABINETRY TO ACCESS FLOORING UNDERNEATH.

2 REMOVE CEMENTITIOUS PANELS (ACM) FROM INTERIOR OF LABORATORY EXHAUST HOOD AS INTACT COMPONENTS.

LEGEND:

APPROXIMATE LOCATION OF FLOOR TILE AND FLOOR TILE MASTIC REMOVAL. REFER TO KEYED ASBESTOS REMOVAL NOTES 1 & 2

ENVIRONMENTAL DECONTAMINATION & REMOVAL NOTES:

A. REFERENCE SPECIFICATION 02 9000 AND COORDINATE WITH PD- AND MD-DRAWINGS.

B. REMOVE AND PROPERLY DISPOSE OF CHEMICAL EXHAUST HOODS, THE ASSOCIATED DUCTWORK AND EXHAUST FANS, ANY ACID WASTE PIPING, ASSOCIATED TRAPS AND SUMP BASINS, THE LABORATORY TABLES/SINKS, AND ANY WASTE LIQUIDS GENERATED IN DECONTAMINATION.

C. CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED TO REMOVE MATERIALS AND SAFELY TRANSPORT TO A DESIGNATED ZONE FOR DECONTAMINATION. ALL WASTE LIQUID GENERATED IN THE DECONTAMINATION PROCESS SHALL BE COLLECTED AND DRUMMED ALONG WITH DEPOSITS, AND BE PROPERLY CHARACTERIZED.

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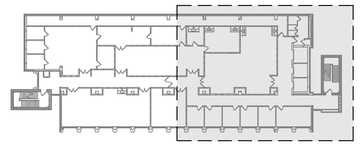
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KEY PLAN

SCALE: NTS

Kideney Architects

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UNIVERSITY AT BUFFALO
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NINTH FLOOR ABATEMENT PLAN - EAST

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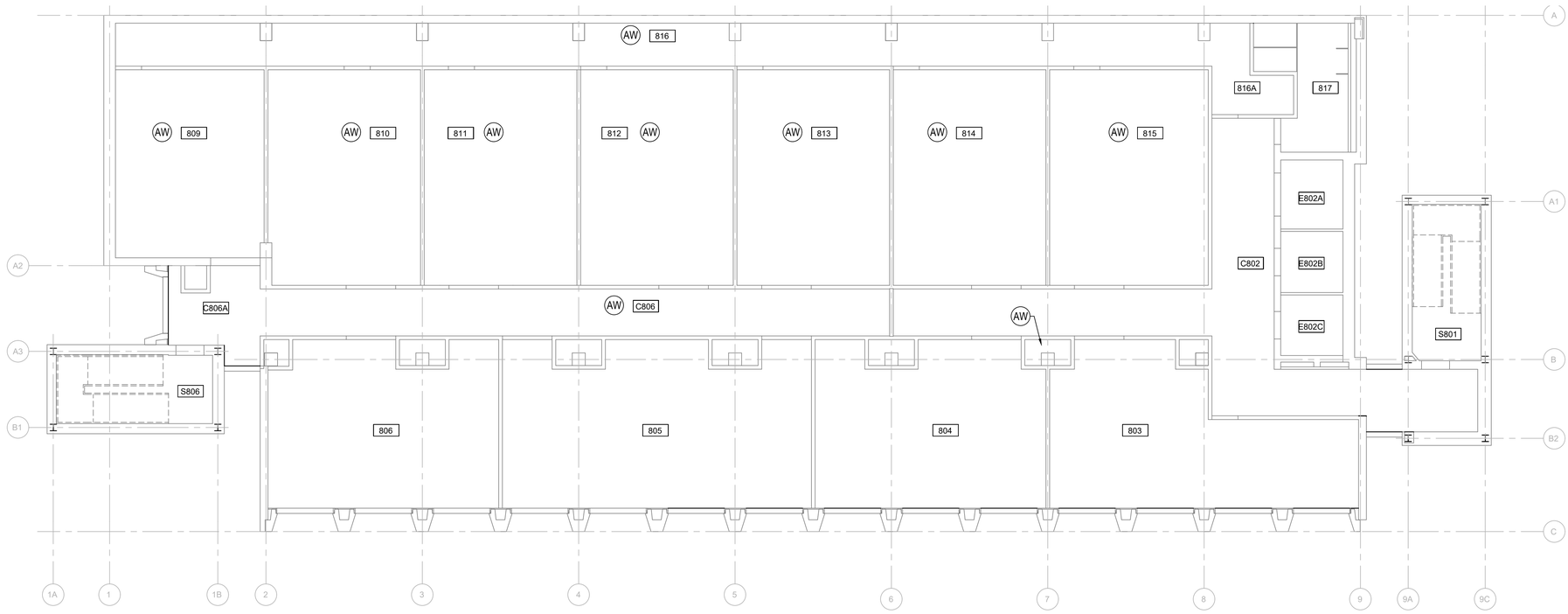
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REVISIONS:

CHECKED BY: RRT	DRAWN BY: EJR
KA PROJECT NO.: 2023035.03	DATE: 11/12/2025
CLIENT PROJECT NO.: 2025-088	

DRAWING NO.: 9-HM102



EIGHTH FLOOR ABATEMENT PLAN

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

1 / 9-HM102

N

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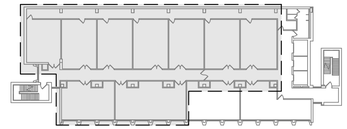
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(AW) REMOVE GLASS ACID DRAIN PIPING ABOVE 8TH FLOOR CEILING AND SERVICING EQUIPMENT ON 9TH FLOOR. REFERENCE PD- DRAWINGS.



KEY PLAN

SCALE: NTS

N

Kideney Architects

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RENOVATE LABS FURNAS 913,914 DISCIPLINARY EXCELLENCE

UNIVERSITY AT BUFFALO
NORTH CAMPUS
215 MARY TALBERT WAY,
BUFFALO, NY 14260

PERMIT SET

EIGHTH FLOOR ABATEMENT PLAN - EAST

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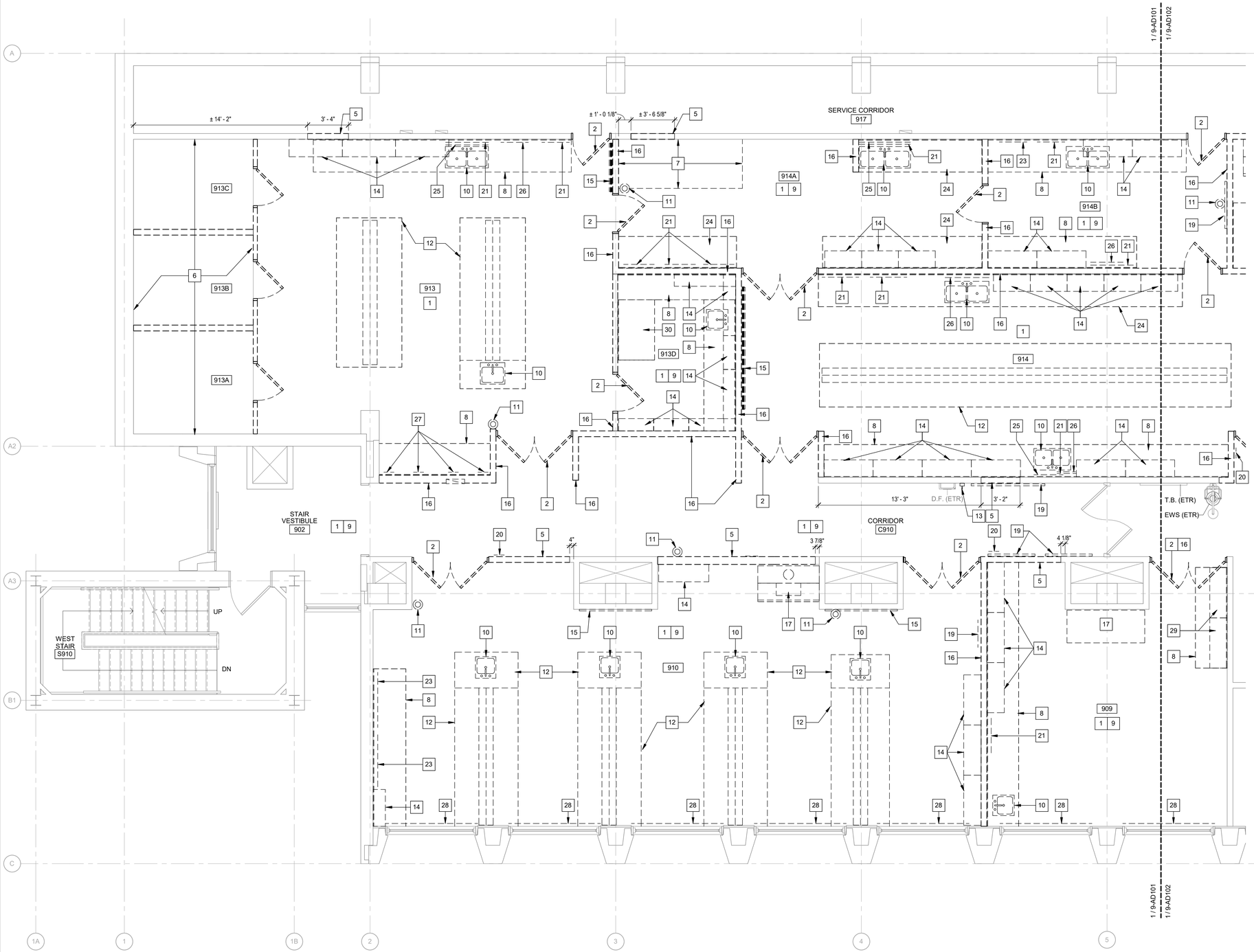
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DRAWING NO. 9-HM103

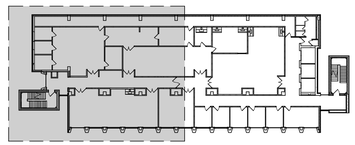


NINTH FLOOR DEMOLITION PLAN

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

1 / 9-AD101

N



KEY PLAN

SCALE: NTS

N

GENERAL NOTES

1. PROTECT ALL ADJACENT EXISTING TO REMAIN BUILDING ELEMENTS IN PLACE DURING DEMOLITION. REFER TO SECTION 01000.
2. OWNER TO REMOVE EXISTING EQUIPMENT PRIOR TO START OF CONSTRUCTION.

DEMOLITION NOTES

1. EXISTING VAT FLOORING. REFER TO HAZARDOUS MATERIALS DRAWINGS FOR REMOVALS.
2. REMOVE HM DOOR FRAME, HM DOOR AND ASSOCIATED HARDWARE IN ITS ENTIRETY. PATCH AND REPAIR EXISTING WALLS TO REMAIN.
3. CAREFULLY REMOVE MARKERBOARD IN ITS ENTIRETY, INCLUSIVE OF FASTENERS. TURNOVER TO OWNER FOR REUSE. PATCH EXISTING WALL SURFACE WHERE WALLS REMAIN.
4. REMOVE EXISTING AED BOX AND TURNOVER TO OWNER FOR RE-USE.
5. REMOVE CMU PARTITION TO THE EXTENTS SHOWN. REFER TO SHEETS 9-A400 AND 9-A401 FOR NEW WORK. COORDINATE EXTENTS REMOVAL OF CMU WITH NEW WORK. TAKE CARE NOT TO DAMAGE EXISTING CMU TO REMAIN.
6. REMOVE COLD/HOT/WARM ROOM UNIT INCLUSIVE OF FLOORING, CEILING, WALLS, AND DOORS.
7. REMOVE EXISTING EXHAUST HOOD IN ITS ENTIRETY.
8. REMOVE METAL CASEWORK, EPOXY RESIN OR WOOD COUNTERTOP AND ASSOCIATED SUPPORT BRACKETS IN THEIR ENTIRETY. PATCH EXISTING WALL SURFACE TO REMAIN.
9. REMOVE ACOUSTIC PANEL CEILING AND SUSPENSION SYSTEM IN THEIR ENTIRETY.
10. REMOVE EXISTING PLUMBING FIXTURE IN ITS ENTIRETY. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. CAREFULLY REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER, FLAG SIGNAGE, MOUNTING BRACKET, AND ALL ASSOCIATED FASTENERS. TURNOVER TO OWNER FOR RE-USE.
12. REMOVE EXISTING METAL WORK BENCH BASE CABINETS, EPOXY RESIN COUNTERTOPS, AND REAGENT RACKS IN THEIR ENTIRETY.
13. REMOVE AND DISPOSE OF HAND SANITIZER DISPENSER.
14. REMOVE EXISTING METAL WALL CABINET CASEWORK IN ITS ENTIRETY.
15. REMOVE CHALKBOARD AND ASSOCIATED FASTENERS IN THEIR ENTIRETY. PATCH EXISTING WALL SURFACE.
16. REMOVE CMU PARTITION FROM FLOOR TO UNDERSIDE OF FLOOR DECK ABOVE TO EXTENTS SHOWN. TAKE CARE NOT TO DAMAGE EXISTING CMU TO REMAIN.
17. REMOVE AND DISPOSE OF FUME HOOD IN ITS ENTIRETY.
18. REMOVE EXISTING VIEW WINDOW AND FRAME IN THEIR ENTIRETY.
19. REMOVE EXISTING TACKBOARD IN ITS ENTIRETY.
20. REMOVE ROOM SIGN IN ITS ENTIRETY, INCLUSIVE OF ALL ADHESIVES.
21. REMOVE VERTICAL UNISTRUT AND 'Z' CLIP RAILS, INCLUSIVE OF ALL FASTENERS.
22. REMOVE AND DISPOSE OF MARKERBOARD IN ITS ENTIRETY, INCLUSIVE OF FASTENERS.
23. REMOVE AND DISPOSE OF WOOD WALL BLOCKING.
24. REMOVE METAL CASEWORK, STAINLESS STEEL COUNTERTOP AND ANY ASSOCIATED SUPPORT BRACKET IN THEIR ENTIRETY. PATCH EXISTING WALL SURFACE TO REMAIN.
25. REMOVE AND DISPOSE OF DRYING RACK.
26. REMOVE UNISTRUT, METAL SHELF BRACKETS AND SHELVES IN THEIR ENTIRETY, INCLUSIVE OF ALL FASTENERS.
27. REMOVE METAL SHELF BRACKETS AND FASTENERS IN THEIR ENTIRETY.
28. REMOVE PLASTIC MINI BLINDS OR ROLLER SHADES IN THEIR ENTIRETY, INCLUSIVE OF FASTENERS. PATCH WALL SURFACE TO REMAIN.
29. REMOVE 'K' STANDARDS, METAL BRACKETS AND SHELVING IN THEIR ENTIRETY, INCLUSIVE OF FASTENERS.
30. REMOVE EPOXY RESIN COUNTERTOP AND ASSOCIATED METAL SUPPORT BRACKETS IN THEIR ENTIRETY. PATCH EXISTING WALL SURFACE TO REMAIN.
31. REMOVE AND DISPOSE OF ACOUSTICAL CEILING TILE. EXISTING ACOUSTIC CEILING GRID SYSTEM TO REMAIN IN PLACE, PROTECT DURING CONSTRUCTION.
32. REMOVE AND DISPOSE OF ACOUSTICAL PANEL CEILING SYSTEM, INCLUSIVE OF GRID. PROTECT ADJACENT APC TO REMAIN DURING CONSTRUCTION.

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NINTH FLOOR DEMOLITION PLAN - WEST

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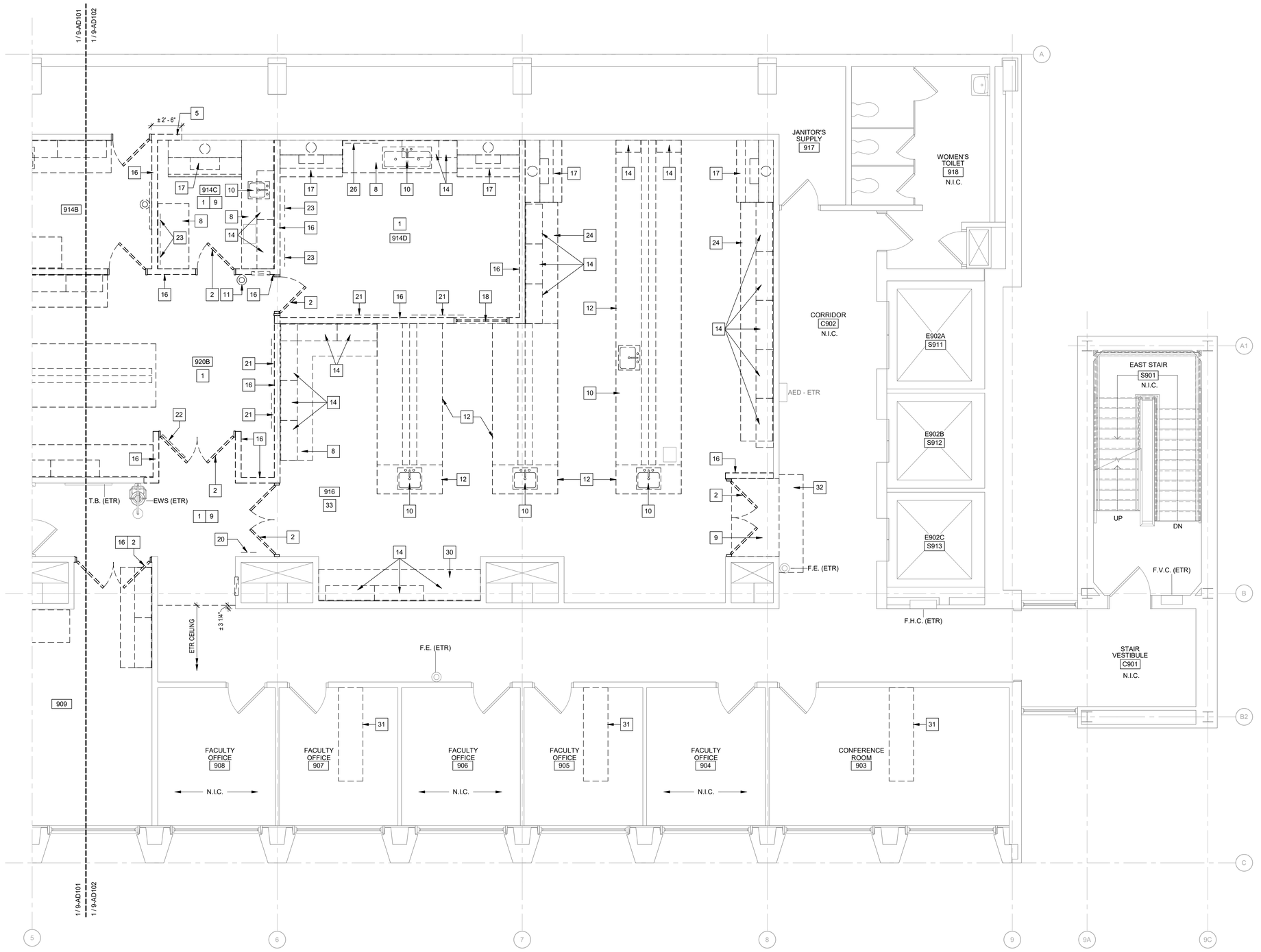
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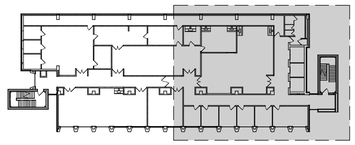
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NINTH FLOOR DEMOLITION PLAN

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

1 / 9-AD102



KEY PLAN

SCALE: NTS

GENERAL NOTES

1. PROTECT ALL ADJACENT EXISTING TO REMAIN BUILDING ELEMENTS IN PLACE DURING DEMOLITION. REFER TO SECTION 01000.
2. OWNER TO REMOVE EXISTING EQUIPMENT PRIOR TO START OF CONSTRUCTION.

DEMOLITION NOTES

1. EXISTING VAT FLOORING. REFER TO HAZARDOUS MATERIALS DRAWINGS FOR REMOVALS.
2. REMOVE HM DOOR FRAME, HM DOOR AND ASSOCIATED HARDWARE IN ITS ENTIRETY. PATCH AND REPAIR EXISTING WALLS TO REMAIN.
3. CAREFULLY REMOVE MARKERBOARD IN ITS ENTIRETY, INCLUSIVE OF FASTENERS. TURNOVER TO OWNER FOR REUSE. PATCH EXISTING WALL SURFACE WHERE WALLS REMAIN.
4. REMOVE EXISTING AED BOX AND TURNOVER TO OWNER FOR RE-USE.
5. REMOVE CMU PARTITION TO THE EXTENTS SHOWN. REFER TO SHEETS 9-A400 AND 9-A401 FOR NEW WORK. COORDINATE EXTENTS REMOVAL OF CMU WITH NEW WORK. TAKE CARE NOT TO DAMAGE EXISTING CMU TO REMAIN.
6. REMOVE COLD/HOT/WARM ROOM UNIT INCLUSIVE OF FLOORING, CEILING, WALLS, AND DOORS.
7. REMOVE EXISTING EXHAUST HOOD IN ITS ENTIRETY.
8. REMOVE METAL CASEWORK, EPOXY RESIN OR WOOD COUNTERTOP AND ASSOCIATED SUPPORT BRACKETS IN THEIR ENTIRETY. PATCH EXISTING WALL SURFACE TO REMAIN.
9. REMOVE ACOUSTIC PANEL CEILING AND SUSPENSION SYSTEM IN THEIR ENTIRETY.
10. REMOVE EXISTING PLUMBING FIXTURE IN ITS ENTIRETY. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. CAREFULLY REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER, FLAG SIGNAGE, MOUNTING BRACKET, AND ALL ASSOCIATED FASTENERS. TURNOVER TO OWNER FOR RE-USE.
12. REMOVE EXISTING METAL WORK BENCH BASE CABINETS, EPOXY RESIN COUNTERTOPS, AND REAGENT RACKS IN THEIR ENTIRETY.
13. REMOVE AND DISPOSE OF HAND SANITIZER DISPENSER.
14. REMOVE EXISTING METAL WALL CABINET CASEWORK IN ITS ENTIRETY.
15. REMOVE CHALKBOARD AND ASSOCIATED FASTENERS IN THEIR ENTIRETY. PATCH EXISTING WALL SURFACE.
16. REMOVE CMU PARTITION FROM FLOOR TO UNDERSIDE OF FLOOR DECK ABOVE TO EXTENTS SHOWN. TAKE CARE NOT TO DAMAGE EXISTING CMU TO REMAIN.
17. REMOVE AND DISPOSE OF FUME HOOD IN ITS ENTIRETY.
18. REMOVE EXISTING VIEW WINDOW AND FRAME IN THEIR ENTIRETY.
19. REMOVE EXISTING TACKBOARD IN ITS ENTIRETY.
20. REMOVE ROOM SIGN IN ITS ENTIRETY, INCLUSIVE OF ALL ADHESIVES.
21. REMOVE VERTICAL UNISTRUT AND 'Z' CLIP RAILS, INCLUSIVE OF ALL FASTENERS.
22. REMOVE AND DISPOSE OF MARKERBOARD IN ITS ENTIRETY, INCLUSIVE OF FASTENERS.
23. REMOVE AND DISPOSE OF WOOD WALL BLOCKING.
24. REMOVE METAL CASEWORK, STAINLESS STEEL COUNTERTOP AND ANY ASSOCIATED SUPPORT BRACKET IN THEIR ENTIRETY. PATCH EXISTING WALL SURFACE TO REMAIN.
25. REMOVE AND DISPOSE OF DRYING RACK.
26. REMOVE UNISTRUT, METAL SHELF BRACKETS AND SHELVES IN THEIR ENTIRETY, INCLUSIVE OF ALL FASTENERS.
27. REMOVE METAL SHELF BRACKETS AND FASTENERS IN THEIR ENTIRETY.
28. REMOVE PLASTIC MINI BLINDS OR ROLLER SHADES IN THEIR ENTIRETY, INCLUSIVE OF FASTENERS. PATCH WALL SURFACE TO REMAIN.
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31. REMOVE AND DISPOSE OF ACOUSTICAL CEILING TILE. EXISTING ACOUSTIC CEILING GRID SYSTEM TO REMAIN IN PLACE, PROTECT DURING CONSTRUCTION.
32. REMOVE AND DISPOSE OF ACOUSTICAL PANEL CEILING SYSTEM, INCLUSIVE OF GRID. PROTECT ADJACENT APC TO REMAIN DURING CONSTRUCTION.
33. REMOVE AND DISPOSE OF EXSITING RESINOUS EPOXY FLOORING AND INTEGRAL BASE DOWN TO EXISTING CONCRETE DECK. PREP FLOOR AS SPECIFIED FOR NEW SCHEDULED FLOORING.

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NINTH FLOOR DEMOLITION PLAN - EAST

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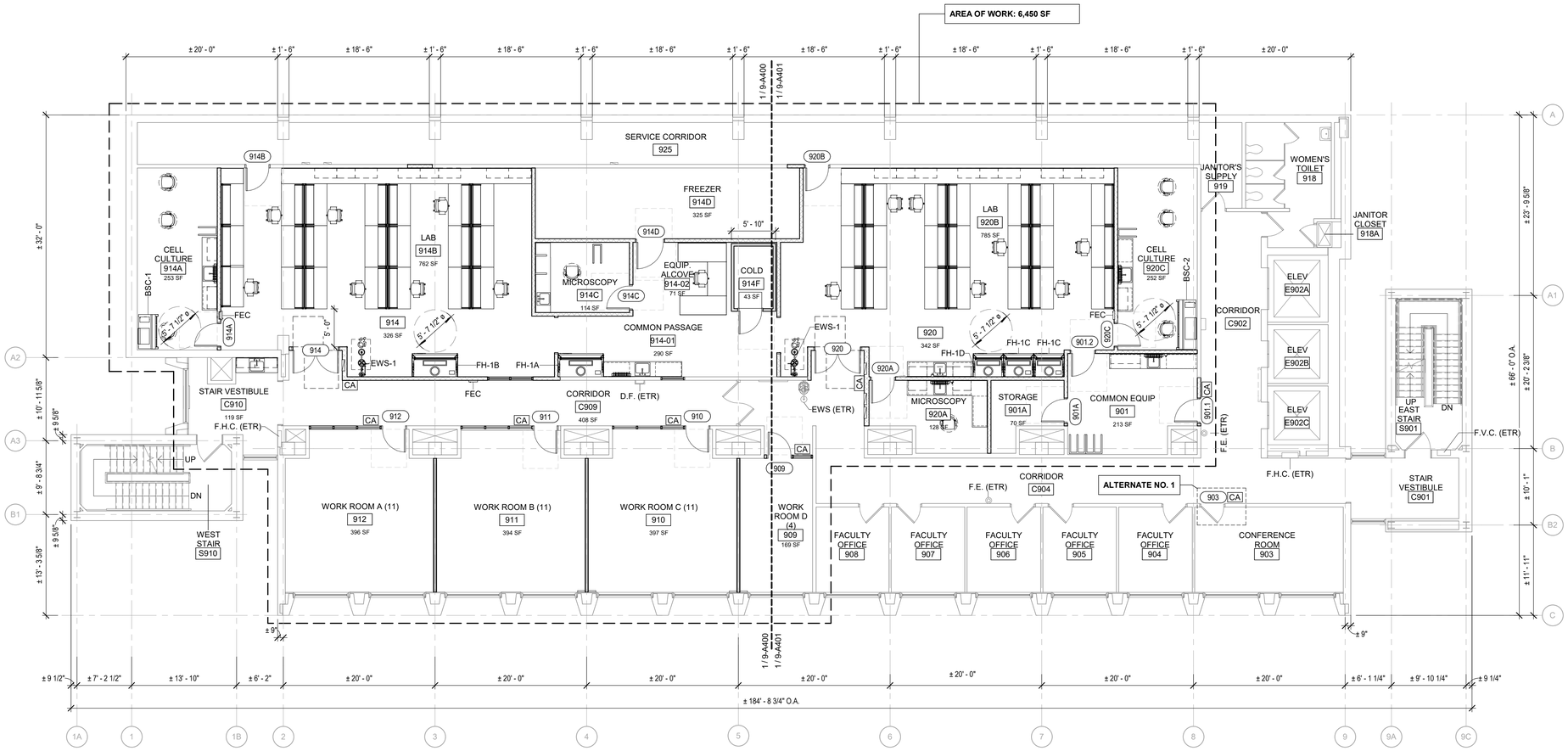
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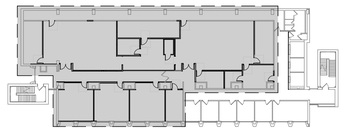
1. PROTECT ALL ADJACENT EXISTING TO REMAIN BUILDING ELEMENTS IN PLACE DURING CONSTRUCTION. REFER TO SECTION 01000.
2. REFER TO DRAWING 9-A601 FOR PARTITION ASSEMBLY TYPES.
3. EXISTING STRUCTURAL COLUMN LINES ARE SHOWN FOR REFERENCE ONLY.
4. REFER TO DRAWINGS 9-A800 THROUGH 9-A803 FOR OWNER'S NOT IN CONTRACT EQUIPMENT, FURNITURE, AND FURNITURE SYSTEMS PLANS.



OVERALL NINTH FLOOR PLAN

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

1 / 9-A101



KEY PLAN

SCALE: NTS

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OVERALL NINTH FLOOR PLAN

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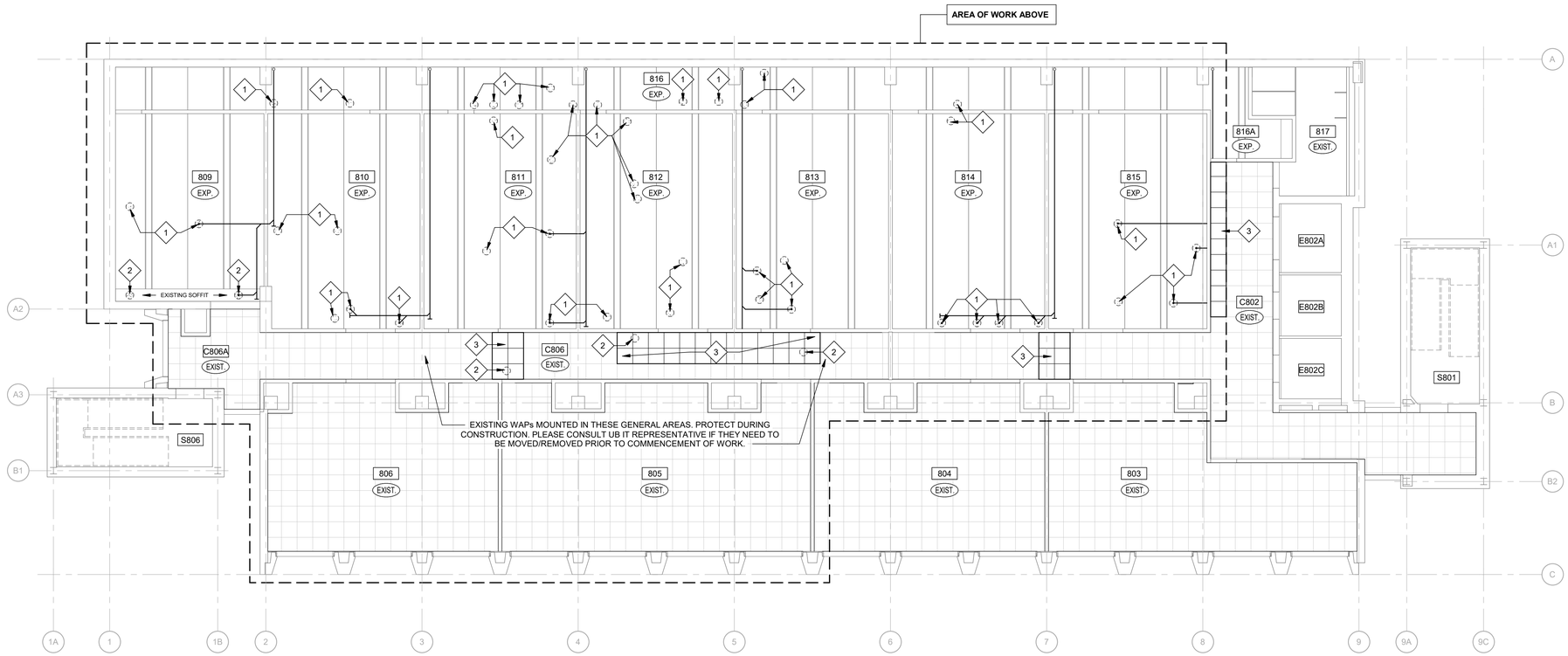
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REFLECTED CEILING PLAN CONSTRUCTION NOTES

1. COORDINATE PIPING PENETRATIONS AND REMOVAL LOCATIONS AT EXISTING CONCRETE TEES WITH PLUMBING DRAWINGS. PATCH CONCRETE FLUSH TO EXISTING ADJACENT TO REMAIN ONCE PENETRATIONS ARE COMPLETE. PAINT EXPOSED CONCRETE AREAS PATCHED WHERE EXPOSED. INFILL CONCRETE SLAB WHERE PIPING RISERS ARE REMOVED.
2. COORDINATE PIPING PENETRATIONS AND REMOVAL LOCATIONS AT EXISTING GWB SOFFIT WITH PLUMBING DRAWINGS. PATCH, PREP AND PAINT GWB FLUSH TO EXISTING ADJACENT TO REMAIN ONCE PENETRATIONS ARE COMPLETE.INFILL CONCRETE SLAB WHERE PIPING RISERS ARE REMOVED.
3. PROVIDE ACOUSTICAL CEILING TILE SYSTEM TO MATCH EXISTING ADJACENT TO REMAIN ONCE WORK FOR PENETRATIONS AND PATCHING IS COMPLETE.

REFLECTED CEILING PLAN LEGEND

- 101 — ROOM NUMBER
- 1'-0" — CEILING HEIGHT (EXP DENOTES EXPOSED) (EXIST DENOTES EXISTING CEILING HEIGHT)
- C1 — CEILING TYPE
- SUSPENDED ACOUSTICAL CEILING GRID SYSTEM - REFER TO SECTION 095113
- 4' SURFACE MOUNTED LIGHT FIXTURE BY COLD ROOM MANUFACTURER - REFER TO ELECTRICAL DRAWINGS
- 2' x 4' RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- EXISTING 1' x 4' RECESSED LIGHT FIXTURE TO BE REINSTALLED
- 1' x 4' PENDANT MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- OVERHEAD SERVICE CARRIER - REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS
- SUPPLY AIR DIFFUSER REFER TO MECHANICAL DRAWINGS FOR SIZES
- RETURN AIR GRILL REFER TO MECHANICAL DRAWINGS FOR SIZES
- DUCT PENETRATIONS AT SLAB REFER TO MECHANICAL DRAWING FOR SIZES
- S — SMOKE DETECTOR
- CO — CARBON MONOXIDE DETECTOR
- VS — VACANCY SENSOR
- OS — OCCUPANCY SENSOR
- S — SPEAKER
- RECESSED SPRINKLER
- UPRIGHT SPRINKLER
- EXIT SIGN
- EXISTING TO REMAIN EXIT SIGN
- WAP — NEW WIRELESS ACCESS POINT
- WAP — EXISTING WIRELESS ACCESS POINT TO BE RELOCATED
- SECURITY CAMERA BY OWNERS VENDOR. REFER TO ELECTRICAL DRAWINGS
- CONCRETE PATCH AT EXISTING EXPOSED CONCRETE TEE
- GWB PATCH AT EXISTING SOFFIT

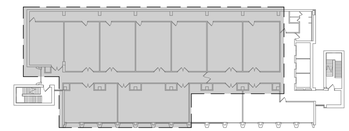


EIGHTH FLOOR REFLECTED CEILING PLAN

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

1 / 9-A111

N



KEY PLAN

SCALE: NTS

N

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EIGHTH FLOOR REFLECTED CEILING PLAN

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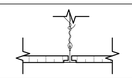
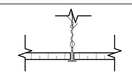
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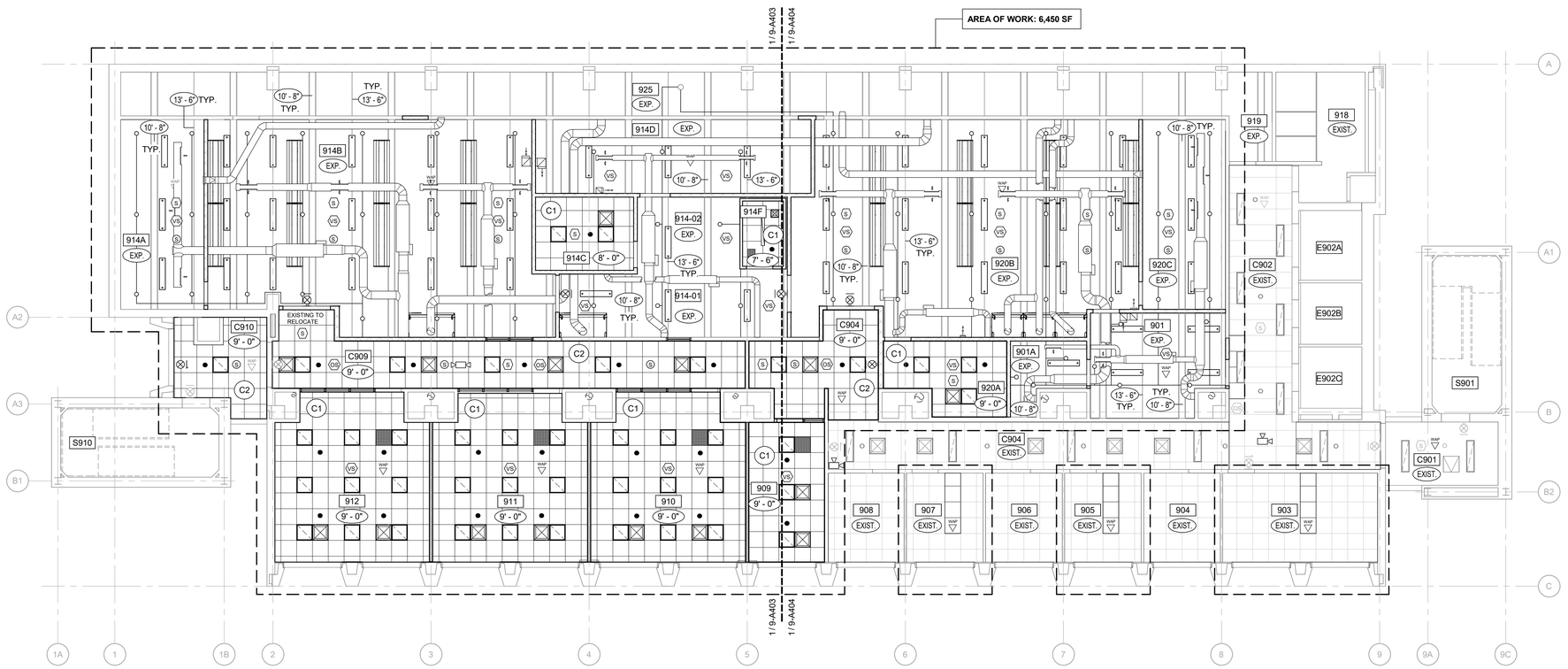
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CEILING ASSEMBLIES

TYPE	FIRE TEST DESIGN No.	FIRE RATING	SECTION	BASIC COMPONENTS
C1	-	NON-RATED		- SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING - ACOUSTICAL PANEL (TEGULAR) FOR ACOUSTICAL PANEL CEILING NOTE: REFER TO ROOM FINISH SCHEDULES & SPEC FOR ACOUSTICAL PANEL SCHEDULES/TYPES
C2	-	NON-RATED		- SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING - ACOUSTICAL PANEL (SQUARE EDGE) FOR ACOUSTICAL PANEL CEILING NOTE: REFER TO ROOM FINISH SCHEDULES & SPEC FOR ACOUSTICAL PANEL SCHEDULES/TYPES



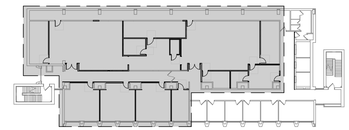
REFLECTED CEILING PLAN - NINTH FLOOR

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

1 / 9-A112

REFLECTED CEILING PLAN LEGEND

- 101 — ROOM NUMBER
- 1'-0" — CEILING HEIGHT (EXP DENOTES EXPOSED) (EXIST DENOTES EXISTING CEILING HEIGHT)
- C1 — CEILING TYPE
- SUSPENDED ACOUSTICAL CEILING GRID SYSTEM - REFER TO SECTION 095113
- 4' SURFACE MOUNTED LIGHT FIXTURE BY COLD ROOM MANUFACTURER - REFER TO ELECTRICAL DRAWINGS
- 2' x 4' RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- EXISTING 1' x 4' RECESSED LIGHT FIXTURE TO BE REINSTALLED
- 1' x 4' PENDANT MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- OVERHEAD SERVICE CARRIER - REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS
- SUPPLY AIR DIFFUSER REFER TO MECHANICAL DRAWINGS FOR SIZES
- RETURN AIR GRILL REFER TO MECHANICAL DRAWINGS FOR SIZES
- DUCT PENETRATIONS AT SLAB REFER TO MECHANICAL DRAWING FOR SIZES
- S — SMOKE DETECTOR
- CO — CARBON MONOXIDE DETECTOR
- VS — VACANCY SENSOR
- OS — OCCUPANCY SENSOR
- S — SPEAKER
- RECESSED SPRINKLER
- UPRIGHT SPRINKLER
- EXIT SIGN
- EXISTING TO REMAIN EXIT SIGN
- WAP — NEW WIRELESS ACCESS POINT
- WAP — EXISTING WIRELESS ACCESS POINT TO BE RELOCATED
- SECURITY CAMERA BY OWNERS VENDOR. REFER TO ELECTRICAL DRAWINGS
- CONCRETE PATCH AT EXISTING EXPOSED CONCRETE TEE
- GWB PATCH AT EXISTING SOFFIT



KEY PLAN

SCALE: NTS

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NINTH FLOOR REFLECTED CEILING PLAN

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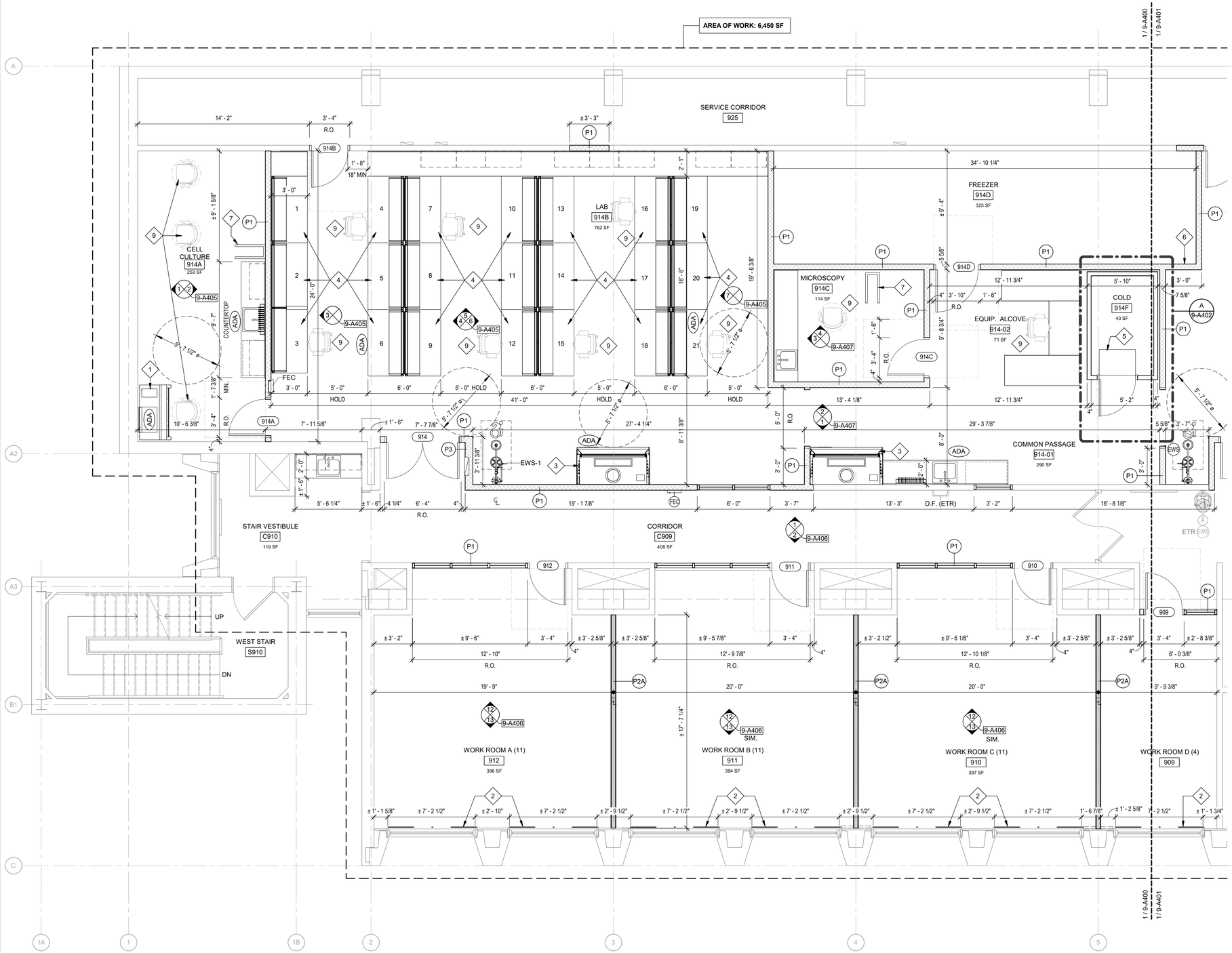
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GENERAL NOTES

1. PROTECT ALL ADJACENT EXISTING TO REMAIN BUILDING ELEMENTS IN PLACE DURING CONSTRUCTION. REFER TO SECTION 01000.
2. REFER TO DRAWING 9-A601 FOR PARTITION ASSEMBLY TYPES.
3. EXISTING STRUCTURAL COLUMN LINES ARE SHOWN FOR REFERENCE ONLY.
4. REFER TO DRAWINGS 9-A800 THROUGH 9-A803 FOR OWNER'S NOT IN CONTRACT EQUIPMENT, FURNITURE, AND FURNITURE SYSTEMS PLANS.

CONSTRUCTION NOTES

1. PROVIDE BIOSAFETY CABINET REFER TO SPECIFICATION SECTION 115353.
2. PROVIDE ROLLER SHADES, INCLUSIVE OF ALL MOUNTING HARDWARE AND ACCESSORIES REFER TO SPECIFICATION SECTION 122413.
3. PROVIDE FUME HOOD REFER TO SPECIFICATION SECTION 115313.
4. PROVIDE LAB WORK BENCHES REFER TO SPECIFICATION SECTION 123553.13.
5. PROVIDE COLD ROOM WITH REMOVABLE RAMP FOR ACADEMIC RESEARCH. REFER TO SPECIFICATION SECTION 132126.
6. PROVIDE 2" DIAMETER METAL ENCASED SLEEVE FOR LIQUID NITROGEN EQUIPMENT HOSE CONNECTION. EXACT LOCATION TO BE FIELD VERIFIED AND COORDINATED WITH OWNER'S EQUIPMENT.
7. PROVIDE TWO CYLINDER GAS RACK. REFER TO SPECIFICATION 123553.13.
8. PROVIDE FOUR CYLINDER GAS RACK. REFER TO SPECIFICATION 123553.13.
9. PROVIDE URETHANE LABORATORY CHAIR. REFER TO SPECIFICATION 123553.13.

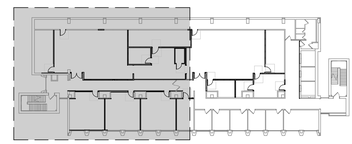


ENLARGED NINTH FLOOR PLAN - WEST

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

1 / 9-A400

N



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR PLAN - WEST

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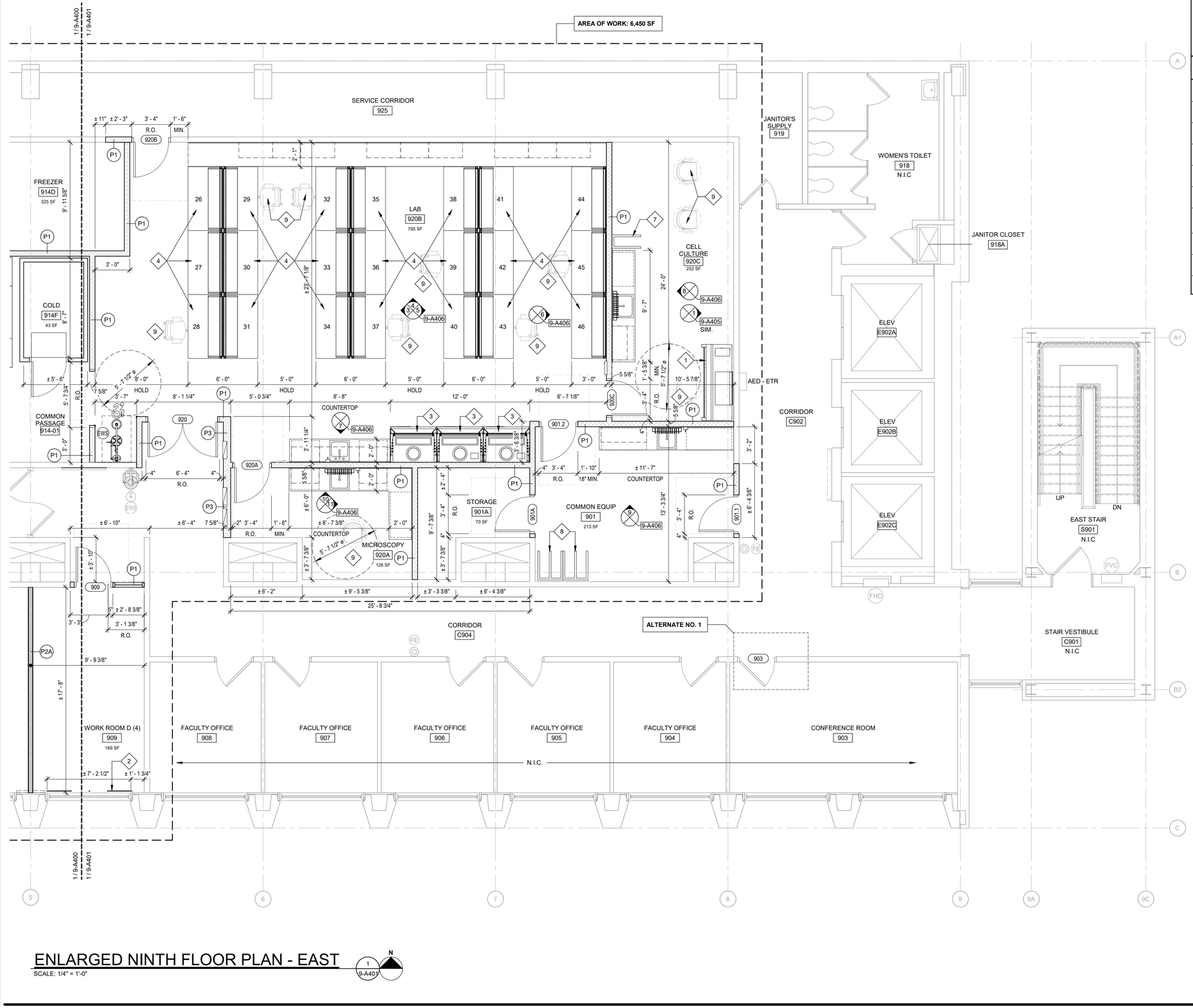
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GENERAL NOTES

1. PROTECT ALL ADJACENT EXISTING TO REMAIN BUILDING ELEMENTS IN PLACE DURING CONSTRUCTION. REFER TO SECTION 01000.
2. REFER TO DRAWING 9-A601 FOR PARTITION ASSEMBLY TYPES.
3. EXISTING STRUCTURAL COLUMN LINES ARE SHOWN FOR REFERENCE ONLY.
4. REFER TO DRAWINGS 9-A800 THROUGH 9-A803 FOR OWNER'S NOT IN CONTRACT EQUIPMENT, FURNITURE, AND FURNITURE SYSTEMS PLANS.

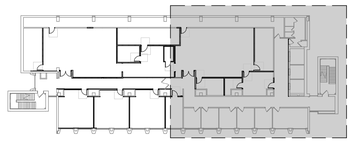
CONSTRUCTION NOTES

1. PROVIDE BIOSAFETY CABINET REFER TO SPECIFICATION SECTION 115353.
2. PROVIDE ROLLER SHADES, INCLUSIVE OF ALL MOUNTING HARDWARE AND ACCESSORIES REFER TO SPECIFICATION SECTION 122413.
3. PROVIDE FUME HOOD REFER TO SPECIFICATION SECTION 115313.
4. PROVIDE LAB WORK BENCHES REFER TO SPECIFICATION SECTION 123553.13.
5. PROVIDE COLD ROOM WITH REMOVABLE RAMP FOR ACADEMIC RESEARCH. REFER TO SPECIFICATION SECTION 132126.
6. PROVIDE 2" DIAMETER METAL ENCASED SLEEVE FOR LIQUID NITROGEN EQUIPMENT HOSE CONNECTION. EXACT LOCATION TO BE FIELD VERIFIED AND COORDINATED WITH OWNER'S EQUIPMENT.
7. PROVIDE TWO CYLINDER GAS RACK. REFER TO SPECIFICATION 123553.13.
8. PROVIDE FOUR CYLINDER GAS RACK. REFER TO SPECIFICATION 123553.13.
9. PROVIDE URETHANE LABORATORY CHAIR. REFER TO SPECIFICATION 123553.13.



ENLARGED NINTH FLOOR PLAN - EAST

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



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR PLAN - EAST

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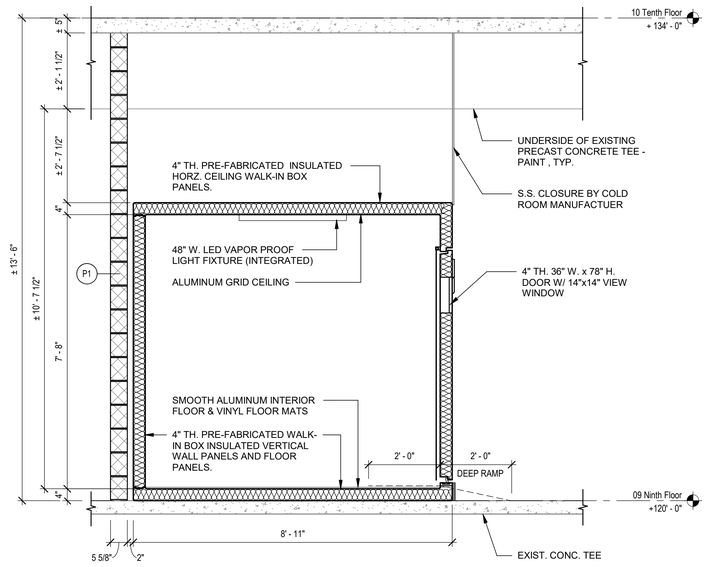
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CLIENT PROJECT NO. 2025-088	

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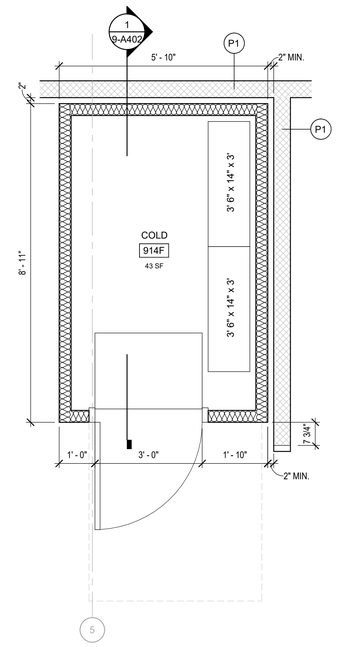
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SECTION - WALK-IN COLD ROOM

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

1
9-A402



ENLARGED WALK-IN COLD ROOM PLAN

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

A
9-A402

N

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ENLARGED COLD ROOM PLAN AND SECTION

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No.	DATE	DESCRIPTION

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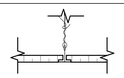
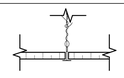
CHECKED BY:	DRAWN BY:
AMS	HS
KA PROJECT NO.	DATE:
2023035.03	11/12/2025

CLIENT PROJECT NO.: 2025-088

9-A402
DRAWING NO.

11/13/2025 1:10:44 AM

CEILING ASSEMBLIES

TYPE	FIRE TEST DESIGN No.	FIRE RATING	SECTION	BASIC COMPONENTS
C1	-	NON-RATED		- SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING - ACOUSTICAL PANEL (TEGULAR) FOR ACOUSTICAL PANEL CEILING NOTE: REFER TO ROOM FINISH SCHEDULES & SPEC FOR ACOUSTICAL PANEL SCHEDULES/TYPES
C2	-	NON-RATED		- SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING - ACOUSTICAL PANEL (SQUARE EDGE) FOR ACOUSTICAL PANEL CEILING NOTE: REFER TO ROOM FINISH SCHEDULES & SPEC FOR ACOUSTICAL PANEL SCHEDULES/TYPES

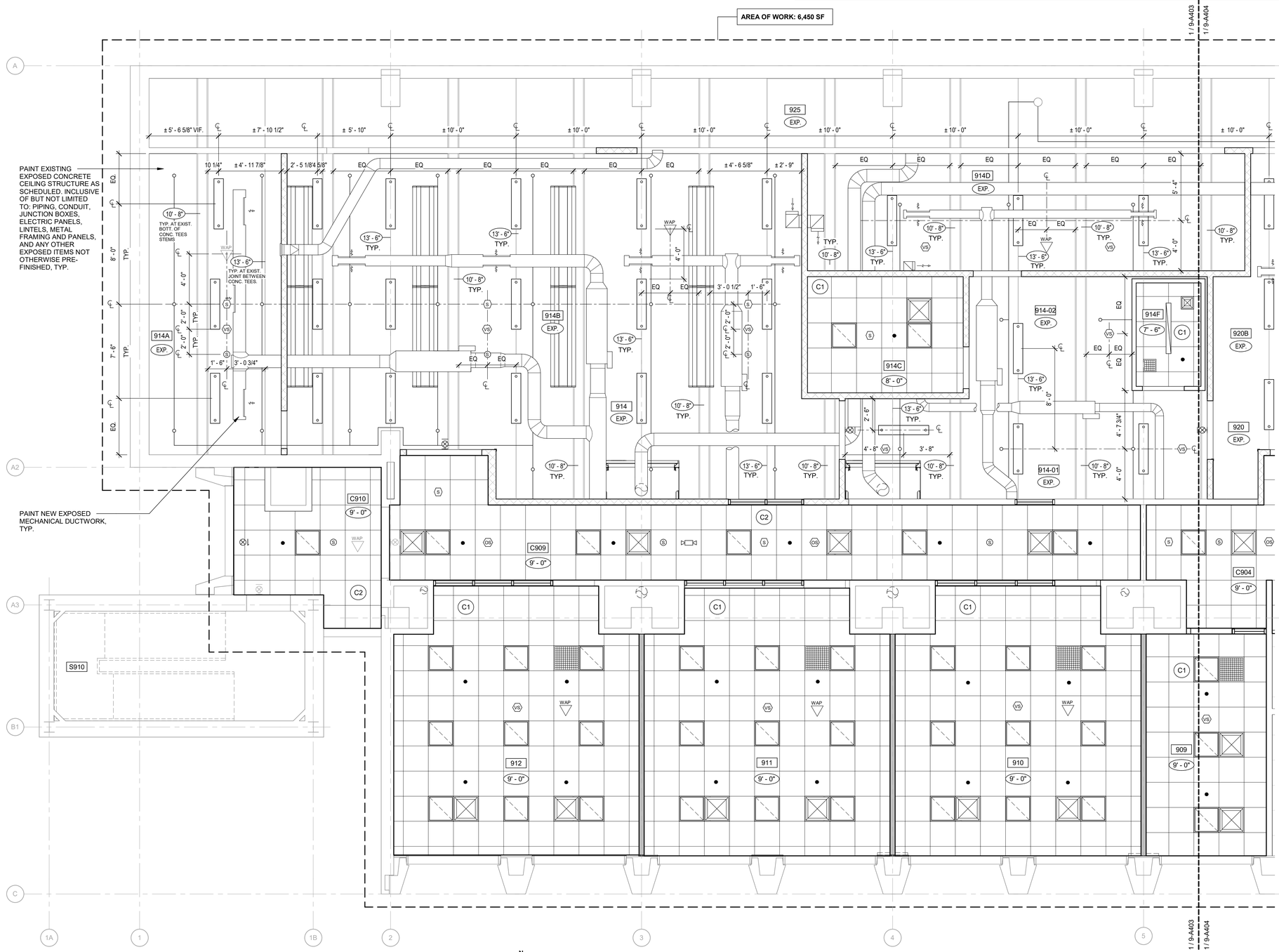
REFLECTED CEILING PLAN LEGEND

- 101 — ROOM NUMBER
- 1'-0" — CEILING HEIGHT (EXP DENOTES EXPOSED) (EXIST DENOTES EXISTING CEILING HEIGHT)
- C1 — CEILING TYPE
- SUSPENDED ACOUSTICAL CEILING GRID SYSTEM - REFER TO SECTION 095113
- 4' SURFACE MOUNTED LIGHT FIXTURE BY COLD ROOM MANUFACTURER - REFER TO ELECTRICAL DRAWINGS
- 2' x 4' RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- EXISTING 1' x 4' RECESSED LIGHT FIXTURE TO BE REINSTALLED
- 1' x 4' PENDANT MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- OVERHEAD SERVICE CARRIER - REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS
- SUPPLY AIR DIFFUSER REFER TO MECHANICAL DRAWINGS FOR SIZES
- RETURN AIR GRILL REFER TO MECHANICAL DRAWINGS FOR SIZES
- DUCT PENETRATIONS AT SLAB REFER TO MECHANICAL DRAWING FOR SIZES
- S — SMOKE DETECTOR
- CO — CARBON MONOXIDE DETECTOR
- VS — VACANCY SENSOR
- OS — OCCUPANCY SENSOR
- S — SPEAKER
- RECESSED SPRINKLER
- UPRIGHT SPRINKLER
- EXIT SIGN
- EXISTING TO REMAIN EXIT SIGN
- WAP — NEW WIRELESS ACCESS POINT
- WAP — EXISTING WIRELESS ACCESS POINT TO BE RELOCATED
- SECURITY CAMERA BY OWNERS VENDOR. REFER TO ELECTRICAL DRAWINGS
- CONCRETE PATCH AT EXISTING EXPOSED CONCRETE TEE
- GWB PATCH AT EXISTING SOFFIT

AREA OF WORK: 6,450 SF

PAINT EXISTING EXPOSED CONCRETE CEILING STRUCTURE AS SCHEDULED. INCLUSIVE OF BUT NOT LIMITED TO: PIPING, CONDUIT, JUNCTION BOXES, ELECTRIC PANELS, LINTELS, METAL FRAMING AND PANELS, AND ANY OTHER EXPOSED ITEMS NOT OTHERWISE PRE-FINISHED, TYP.

PAINT NEW EXPOSED MECHANICAL DUCTWORK, TYP.

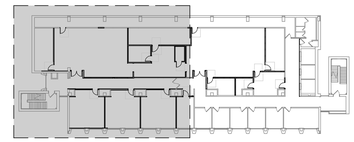


NINTH FLOOR REFLECTED CEILING PLAN - WEST

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

1 / 9-A403

N



KEY PLAN

SCALE: NTS

N

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ENLARGED NINTH FLOOR REFLECTED CEILING PLAN - WEST

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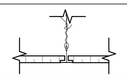
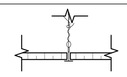
No.	DATE	DESCRIPTION
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2023035.03 — KA PROJECT NO.	11/12/2025 — DATE:
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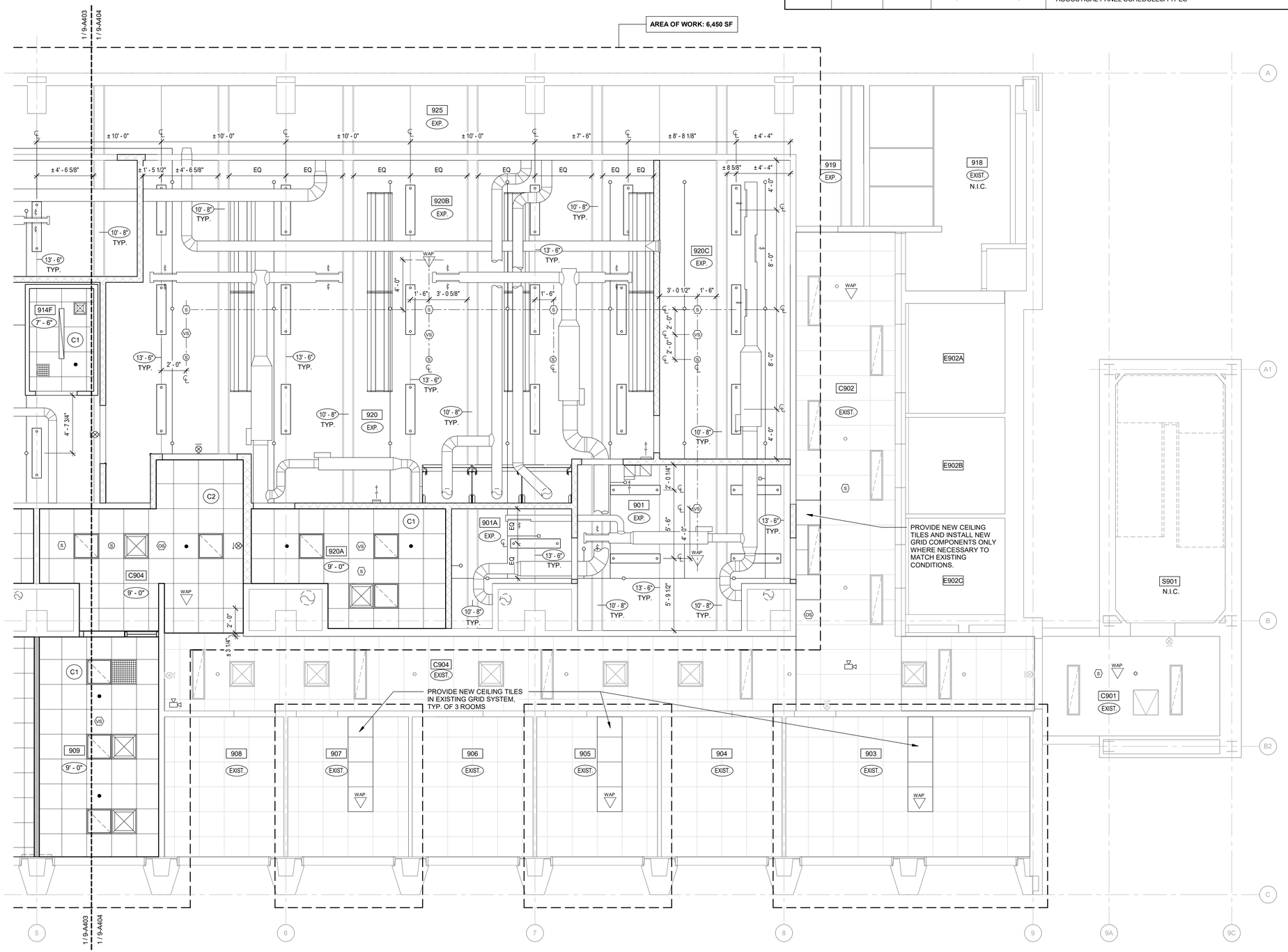
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CEILING ASSEMBLIES

TYPE	FIRE TEST DESIGN No.	FIRE RATING	SECTION	BASIC COMPONENTS
C1	-	NON-RATED		- SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING - ACOUSTICAL PANEL (TEGULAR) FOR ACOUSTICAL PANEL CEILING NOTE: REFER TO ROOM FINISH SCHEDULES & SPEC FOR ACOUSTICAL PANEL SCHEDULES/TYPES
C2	-	NON-RATED		- SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING - ACOUSTICAL PANEL (SQUARE EDGE) FOR ACOUSTICAL PANEL CEILING NOTE: REFER TO ROOM FINISH SCHEDULES & SPEC FOR ACOUSTICAL PANEL SCHEDULES/TYPES

REFLECTED CEILING PLAN LEGEND

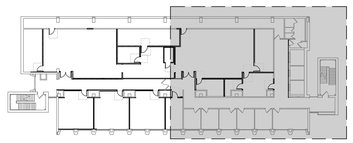
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- CO — CARBON MONOXIDE DETECTOR
- VS — VACANCY SENSOR
- OS — OCCUPANCY SENSOR
- S — SPEAKER
- RECESSED SPRINKLER
- UPRIGHT SPRINKLER
- EXIT SIGN
- EXISTING TO REMAIN EXIT SIGN
- WAP — NEW WIRELESS ACCESS POINT
- WAP — EXISTING WIRELESS ACCESS POINT TO BE RELOCATED
- SECURITY CAMERA BY OWNERS VENDOR. REFER TO ELECTRICAL DRAWINGS
- CONCRETE PATCH AT EXISTING EXPOSED CONCRETE TEE
- GWB PATCH AT EXISTING SOFFIT



NINTH FLOOR REFLECTED CEILING PLAN - EAST

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

1 / 9-A404



KEY PLAN

SCALE: NTS

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2025-088 — CLIENT PROJECT NO.	

9-A404
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NOTE

REFER TO SHEETS 9-A800 THROUGH 9-A803 FOR OWNER PROVIDED LAB EQUIPMENT SCHEDULE

LAB BENCHWORK SCHEDULE

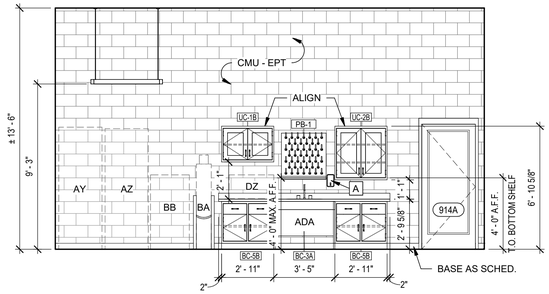
	SIM. MODEL #	TAG	H	D	W		SIM. MODEL #	TAG	H	D	W
BC-1 1 DOOR, 2 DRAWER, 1 ADJ. SHELVES	7309L-15FB	BC-1A	28 1/2"	22.5"	15"	BC-2 3 DRAWERS	7314-21FB	BC-2A	28 1/2"	22.5"	21"
	7009L15FB-MCB-ADA	BC-1B	32 1/8"	22.5"	15"		7011-21FB-MCB-ADA	BC-2B	32 1/8"	22.5"	21"
BC-3 OPEN ADA SINK CABINET	7103-41A-WC	BC-3A	32 1/8"	22.5	41"	BC-4 FLAMMABLE STORAGE CABINET, MANUAL 2-DOOR, FINISH: WHITE	L136	BC-4A	35 9/16"	22"	47"
	7103-58A-WC	BC-3B	32 1/8"	22.5	58"						
BC-5 2 DOOR, 2 DRAWER, 1 ADJ. SHELVES	7102-29ADA	BC-5A	32 1/8"	22"	29"	BC-6 LINED ACID STORAGE, 2-DOOR FUME HOOD BASE UNIT W/ FIXED TOP PANEL	7000-47AFHFB	BC-6A	35 3/4"	22"	35"
	7102-35ADA	BC-5B	32 1/8"	22"	35"		7000-47AFHFB	BC-6B	32 1/8"	22"	35"
	7102-41ADA	BC-5C	32 1/8"	22"	41"						
	7102-47ADA	BC-5D	32 1/8"	22"	47"						
BC-7 1 DOOR, 4 DRAWER, 1 ADJ. SHELVES	7121-29ADA	BC-7A	32 1/8"	22"	39"	UC-1 2 DOOR, 1 ADJ. SHELF, W/ GLASS	7505-29M16	UC-1A	24"	16"	29"
							7505-35M16	UC-1B	24"	16"	35"
							7505-41M16	UC-1C	24"	16"	41"
UC-2 2 DOOR, 2 ADJ. SHELVES, W/ GLASS ***NOTE: BOTTOM SHELF TO BE INSTALLED AT 48" A.F.F	7705-29M16	UC-2A	36"	16"	29"	UC-3 1 DOOR ADJ. SHELF, W/ GLASS	7504-18M16	UC-3A	24"	16"	18"
	7705-35M16	UC-2B	36"	16"	35"						
EWS-1 EMERGENCY EYE WASH/ SAFETY STATION	SSBF909 SAFETY STATION ADA COMPLIANT	EWS-1	-	-	-	PB-1 PHENOLIC RESIN PEGBOARD 30"W x 30"H x 1" WITH 46 PEGS	PR3030A	PB-1	30"	1"	30"
FH-1 FUME HOOD PREWIRED/ PREPLUMBED AND INCLUDE A LTSW, BLSW, (2) DUPLEX, TEL500 ALARM, (2) CW FAUCETS, (2) GAS, AND EPOXY TOP W/ (2) CUPSINKS	FH-6	FH-1A	96"	31.7"	72"	TB-1 ADJUSTABLE UTILITY TABLE, (4) 12"D SHELVES, ELEC. POWER STRIP W/ (3) DUPLEX,	AUT-7230-E-G1 (1) L4200-158 FT. BALL VALVE AND HOSE W/ QUICK CONNECT; PRE-PLUMBED	TB-1A	84"	30"	66"
	FH-6ADA	FH-1B	96"	31.7"	72"						
	FH-4	FH-1C	96"	31.7"	48"						
	FH-4ADA	FH-1D	96"	31.7"	48"						
BSC	LABCONCO LOGIC+	BSC-1	89.3"	29"	66.3"						
		BSC-2	89.3"	29"	78.3"						

GENERAL NOTES:

1.) ALL MODEL NUMBERS BASED ON "BASIS OF DESIGN" KRAFTWERKS LABORATORY BENCHWORK WITH EPOXY RESIN COUNTERTOPS.
2.) ALL BASE CABINETS TO BE ADA HEIGHT OF 32 1/2".
3.) ALL PERIMETER LAB CABINET, PREP ROOM DOORS AND DRAWER TO BE LOCKING - KEYED ALIKE.
4.) ALL WORK STATION CABINET DOORS AND DRAWERS TO BE LOCKING - KEYED ALIKE PER EACH STATION.

CHEMICALS TO BE STORED IN FLAMMABLE AND ACID STORAGE CABINETS:

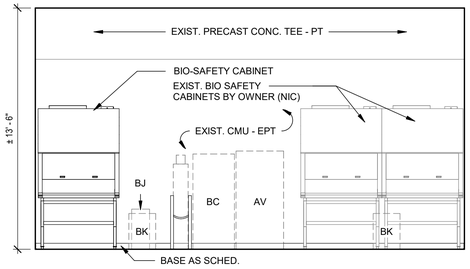
190 PROOF ETHANOL	METHANOL	ETHANOL (70%)	2-PROPANOL	ISOPROPANOL	METHYL ALCOHOL
HYDROGEN PEROXIDE	HEXANE	ETHYL ACETATE	DIMETHYLSULFOXIDE	N,N-DIMETHYLFORMIDE	1-PROPANOL
CHLOROFORM	BENZYL ALCOHOL	1-OCTANOL	1-BUTANOL	ETHANOL (100%)	METHYL SULFOXIDE
2-PROPANOL	TOLUENE	2-MERCAPTOETHANOL	DICHLOROFORMETHANE	2-METHYL BUTANE	DISOPROPYLETHYLAMINE



INTERIOR ELEVATION - 914A EAST

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

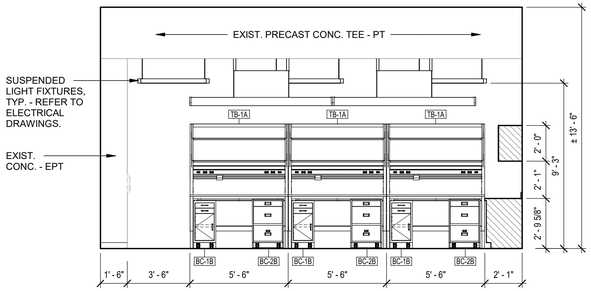
2 / 9-A405



INTERIOR ELEVATION - 914A WEST

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

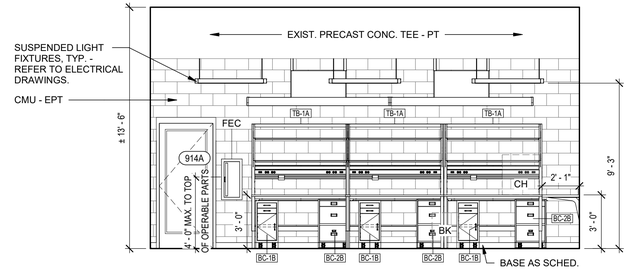
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INTERIOR ELEVATION - 914B WEST

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

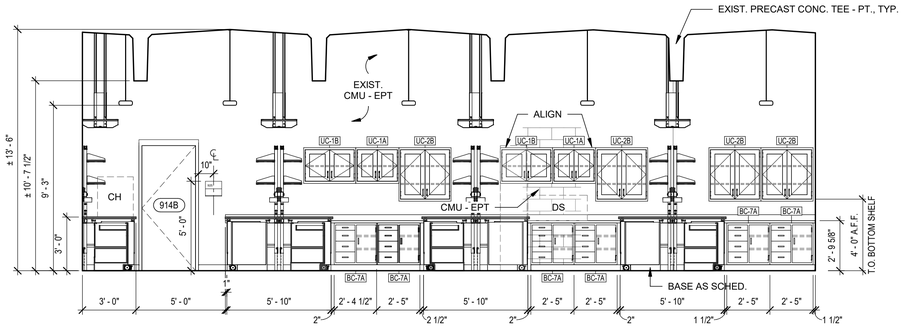
4 / 9-A405



INTERIOR ELEVATION - 914B WEST

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

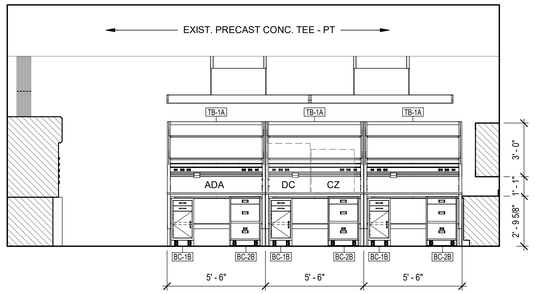
3 / 9-A405



INTERIOR ELEVATION - 914B NORTH

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

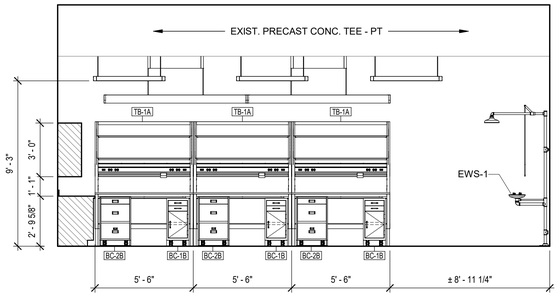
5 / 9-A405



INTERIOR ELEVATION - 914B WEST

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

7 / 9-A405



INTERIOR ELEVATION - 914B EAST

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

6 / 9-A405

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LAB BENCHWORK SCHEDULE AND INTERIOR ELEVATIONS

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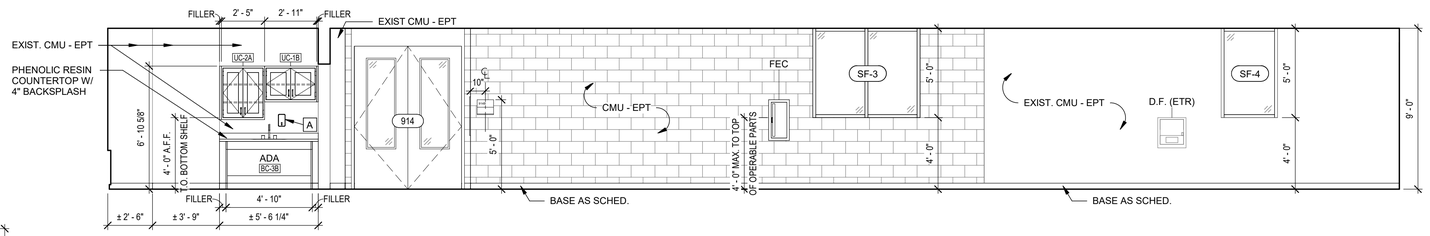
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2023035.03 KA PROJECT NO.	11/12/2025 DATE:
2025-088 CLIENT PROJECT NO.	

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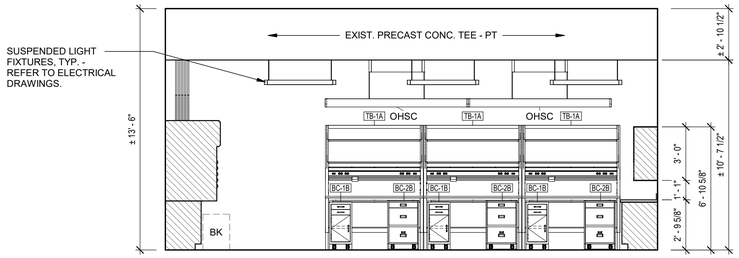
REFER TO SHEETS 9-A800 THROUGH 9-A803 FOR OWNER PROVIDED LAB EQUIPMENT SCHEDULE



INTERIOR ELEVATION C910 NORTH

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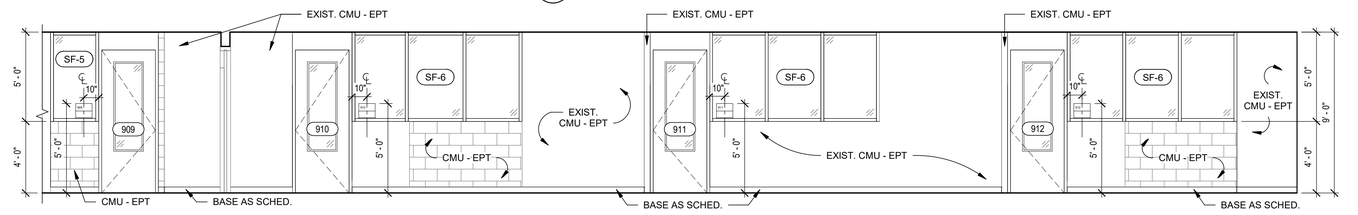
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INTERIOR ELEVATION - 920B WEST

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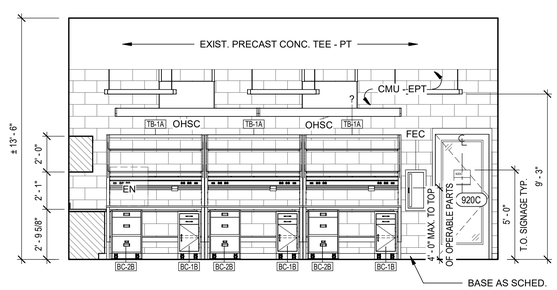
3 / 9-A406



INTERIOR ELEVATION - C910 SOUTH

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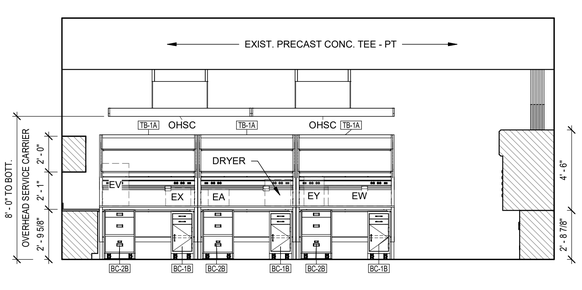
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INTERIOR ELEVATION - 920B EAST

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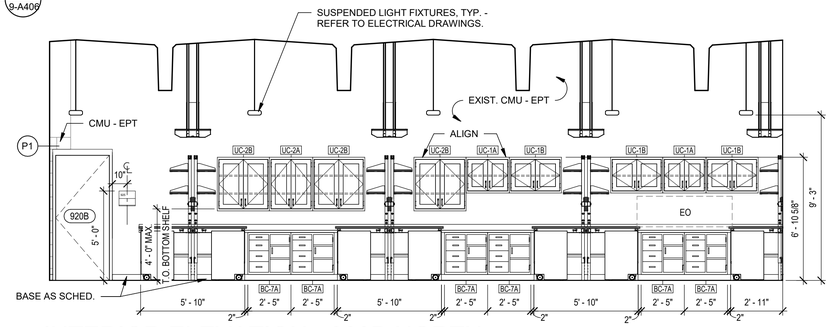
6 / 9-A406



INTERIOR ELEVATION - 920B EAST

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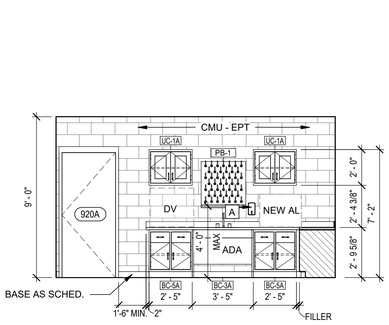
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INTERIOR ELEVATION - 920B NORTH

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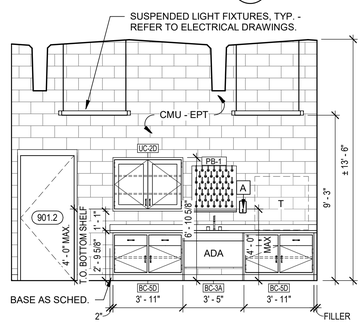
4 / 9-A406



INTERIOR ELEVATION - 920A NORTH

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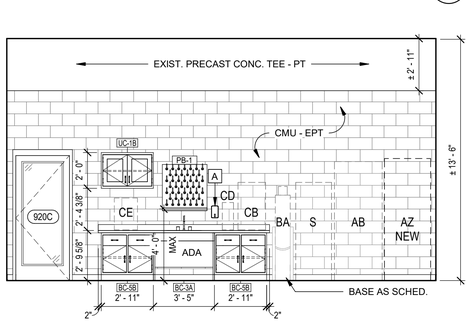
10 / 9-A406



INTERIOR ELEVATION - 901 NORTH

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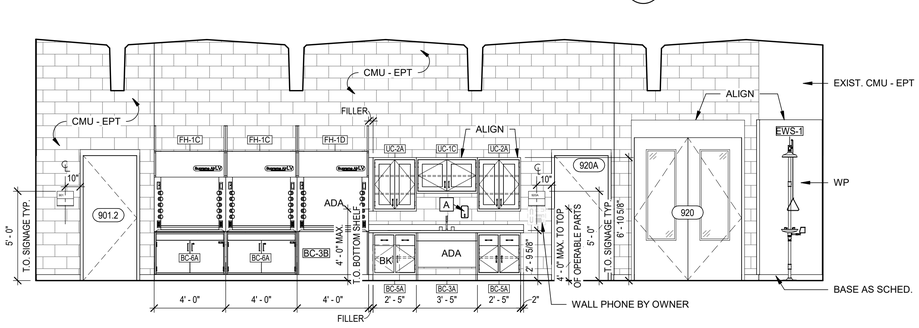
9 / 9-A406



INTERIOR ELEVATION - 920C WEST

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

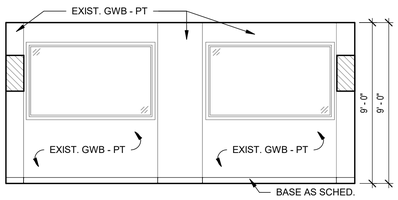
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INTERIOR ELEVATION - 920B SOUTH

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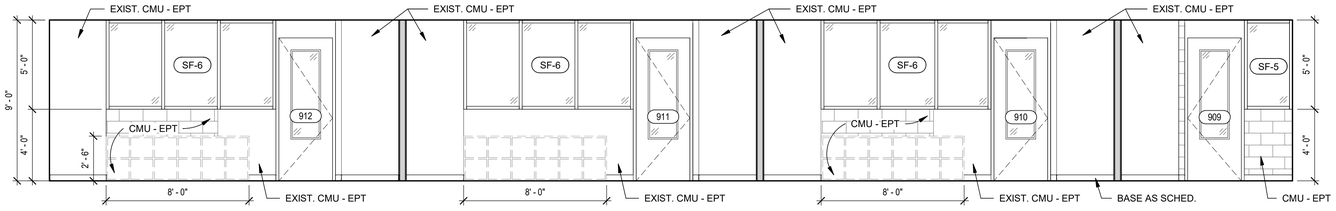
7 / 9-A406



INTERIOR ELEVATION - WORKROOM SOUTH

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

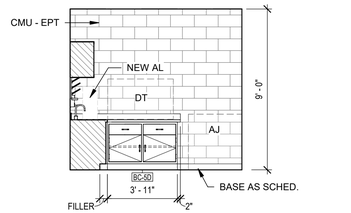
13 / 9-A406



INTERIOR ELEVATION - WORKROOM NORTH

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

12 / 9-A406



INTERIOR ELEVATION - 920A EAST

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

11 / 9-A406

11/13/2025 1:11:03 AM

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INTERIOR ELEVATIONS

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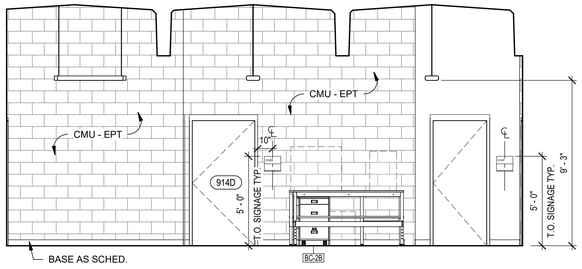
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KA PROJECT NO: 2023035.03	DATE: 11/12/2025
CLIENT PROJECT NO: 2025-088	

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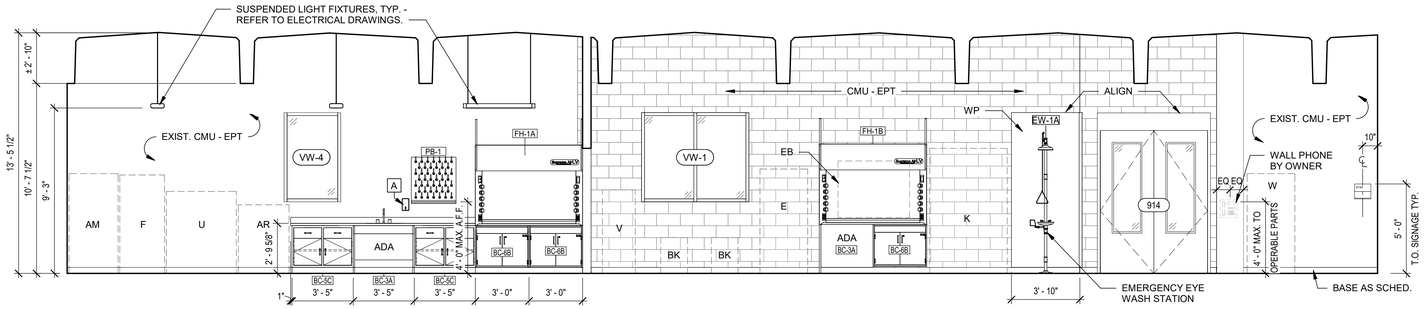
REFER TO SHEETS 9-A800 THROUGH 9-A803 FOR OWNER PROVIDED LAB EQUIPMENT SCHEDULE



INTERIOR ELEVATION - 914-01 NORTH

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

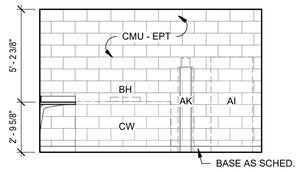
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INTERIOR ELEVATION - 914-01 SOUTH

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

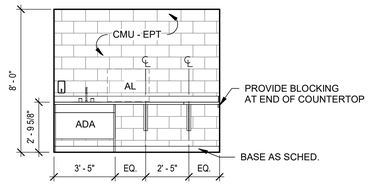
1 / 9-A407



INTERIOR ELEVATION - 914C NORTH

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

4 / 9-A407



INTERIOR ELEVATION - 914C WEST

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

3 / 9-A407

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INTERIOR ELEVATIONS

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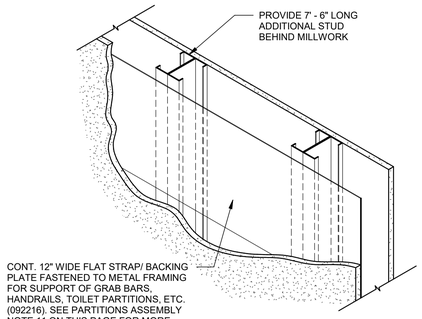
No.	DATE	DESCRIPTION

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AMS (CHECKED BY:)	MEA (DRAWN BY:)
2023035.03 (KA PROJECT NO.)	11/12/2025 (DATE:)
2025-088 (CLIENT PROJECT NO.)	

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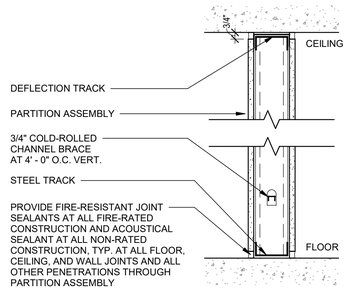
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TYPICAL FRAMING DETAIL

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

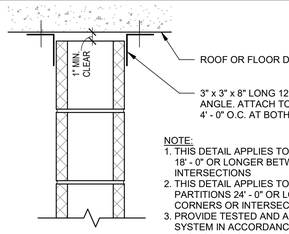
3 / 9-A601



TYPICAL STEEL STUD PARTITION DETAIL

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

2 / 9-A601

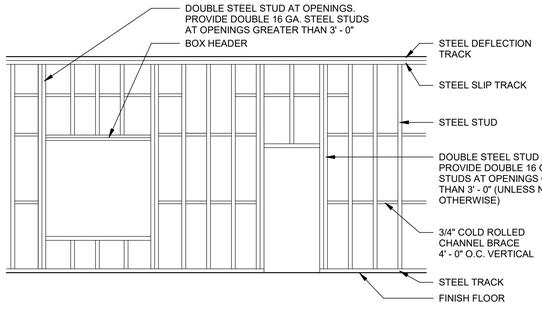


NOTE:
1. THIS DETAIL APPLIES TO 6" CMU PARTITIONS 18' - 0" OR LONGER BETWEEN CORNERS OR INTERSECTIONS
2. THIS DETAIL APPLIES TO 8" OR WIDER CMU PARTITIONS 24' - 0" OR LONGER BETWEEN CORNERS OR INTERSECTIONS
3. PROVIDE TESTED AND APPROVED FIRESTOP SYSTEM IN ACCORDANCE WITH DIVISION 7 SECTION'S "JOINT FIRESTOPPING" TO SEAL JOINT BETWEEN PARTITION AND FLOOR/ROOF DECK AT ALL FIRE-RATED CONSTRUCTION

TOP OF CMU PARTITION DETAIL

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

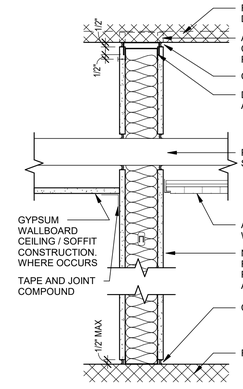
1 / 9-A601



TYPICAL FRAMING ELEVATION

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

5 / 9-A601

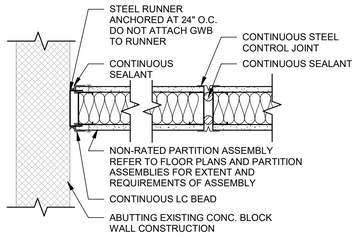


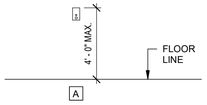
NON-RATED GWB PARTITION ASSEMBLY

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

4 / 9-A601

1. PROVIDE CONTROL JOINTS AT THE FOLLOWING LOCATIONS / CONDITIONS:
   A. WHERE INDICATED ON THE DRAWINGS.
   B. ABOVE AND BELOW ALL NEW WINDOW AND BORROWED LIGHT OPENINGS AND ABOVE ALL NEW DOOR OPENINGS FROM OUTSIDE CORNER OF JAMBS FOR FULL HEIGHT OF ASSEMBLY.
   C. WHERE A PARTITION OR CEILING TRAVERSES A CONSTRUCTION JOINT (EXPANSION, SEISMIC, OR BUILDING CONTROL ELEMENT) IN THE BUILDING STRUCTURE.
   D. WHERE PARTITION OR CEILING RUNS IN AN UNINTERRUPTED STRAIGHT PLANE EXCEEDING 25 LINEAR FEET.
   E. WHERE CEILING FRAMING MEMBERS CHANGE DIRECTION.
   F. WHERE CONTROL JOINT OCCURS IN AN ACOUSTICAL ASSEMBLY, PROVIDE BLOCKING BEHIND THE CONTROL JOINT SUCH AS 5/8" TYPE X GYPSUM WALLBOARD, MINERAL FIBER, OR OTHER TESTED EQUIVALENT.
2. REFER TO "TYPICAL STEEL STUD FRAMING DETAIL" FOR STEEL STUD FRAMING REQUIREMENTS.



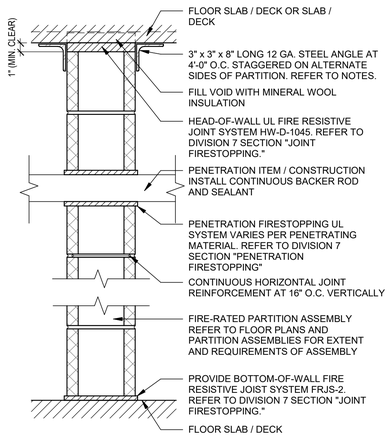


TYPICAL ACCESSORY HEIGHTS AND DIMENSIONS

ACCESSORY TYPES

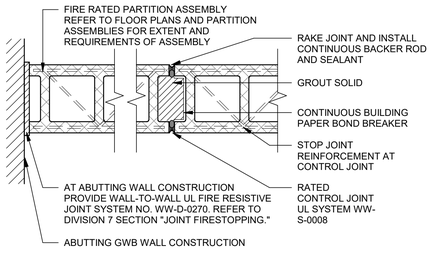
SYMBOL	ACCESSORY
A	SURFACE-MOUNTED SOAP DISPENSER

NOTES: 1. PROVIDE IN-WALL BLOCKING AS REQUIRED TO SUPPORT TOILET ROOM ACCESSORIES. SEE PLANS/ELEVATIONS FOR LOCATIONS OF ACCESSORIES.



NOTES:

1. LOCATION NOTES FOR 12 GAUGE ANGLES:
   A. AT 6" CMU ASSEMBLIES PROVIDE 12 GAUGE STEEL ANGLES AT TOP OF PARTITION WHERE THE SPAN OF THE PARTITION IS 18'-0" OR LONGER BETWEEN CORNERS OR INTERSECTING WALLS.
   B. AT 8" CMU ASSEMBLIES PROVIDE 12 GAUGE STEEL ANGLES AT TOP OF PARTITION WHERE THE SPAN OF THE PARTITION IS 24'-0" OR LONGER BETWEEN CORNERS OF INTERSECTING WALLS.
2. PROVIDE CONTROL JOINTS AT THE FOLLOWING LOCATIONS / CONDITIONS:
   A. WHERE INDICATED ON THE DRAWINGS.
   B. ABOVE AND BELOW ALL NEW WINDOW AND BORROWED LIGHT OPENINGS AND ABOVE ALL NEW DOOR OPENINGS FROM EDGE OF LINTEL FOR FULL HEIGHT OF ASSEMBLY.
   C. WHERE A PARTITION TRAVERSES A CONSTRUCTION JOINT IN THE BUILDING STRUCTURE - EXPANSION OR BUILDING CONTROL ELEMENT WITH A MAXIMUM WIDTH OF 1/2". JOINT GREATER THAN 1/2" WIDE SHALL EMPLOY A WALL-TO-WALL FIRE RESISTIVE JOINT SYSTEM FRJS-3. REFER TO DIVISION 7 SECTION "FIRE RESISTIVE JOINT SYSTEMS".
   D. WHERE A PARTITION RUNS IN AN UNINTERUPTED STRAIGHT PLANE EXCEEDING 24 LINEAR FEET.
   E. WHERE OUTSIDE CORNERS OCCUR PROVIDE JOINTS A MAXIMUM OF 12'-0" FROM THE OUTSIDE CORNER.
   F. WHERE A CHANGE IN WALL HEIGHT OCCURS.
   G. WHERE A CHANGE IN WALL THICKNESS OCCURS SUCH AS AT PIPE CHASES AND PILASTERS.
3. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT AT 16" ON CENTER VERTICALLY FOR THE HEIGHT OF THE ASSEMBLY.

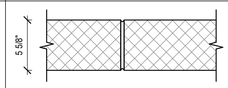
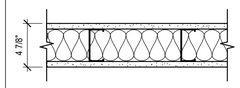
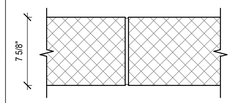


FIRE-RATED CMU PARTITION ASSEMBLY

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

6 / 9-A601

PARTITION ASSEMBLIES

TYPE	FIRE TEST DESIGN No.	FIRE RATING	SECTION	BASIC COMPONENTS
P1	U906	TWO-HOUR		- 5 5/8" SOLID CONCRETE MASONRY UNITS REFER TO NOTES: 1, 4, 5, 12
P2	-	-		- (1) LAYER 5/8" ABUSE-RESISTANT, GYPSUM WALLBOARD - 3 5/8" METAL STUDS AND RUNNERS @ 16" O.C. WITH SOUND ATTENUATION BLANKETS. - (1) LAYER 5/8" ABUSE-RESISTANT GYPSUM WALLBOARD REFER TO NOTES: 1, 3, 4, 6, 8, 9, 11
P3	U906	TWO-HOUR		- 7 5/8" SOLID CONCRETE MASONRY UNITS REFER TO NOTES: 1, 4, 5, 12

ASSEMBLY NOTES

1. ENTIRE PARTITION SHALL EXTEND FROM FLOOR TO UNDERSIDE OF SUBSTRATE OR STRUCTURE ABOVE.
2. STEEL STUDS SHALL EXTEND FROM FLOOR TO UNDERSIDE OF SUBSTRATE OR ROOF STRUCTURE ABOVE. GYPSUM WALLBOARD, ON BOTH FACES, SHALL EXTEND 6" MINIMUM ABOVE FINISHED CEILING SYSTEM.
3. PROVIDE HORIZONTAL 3/4" COLD ROLLED CHANNEL STIFFENERS, 4'-0" MINIMUM FROM FLOOR, & 4'-0" O.C. VERTICALLY, FOR THE ENTIRE LENGTH OF PARTITION, REFER TO "TYPICAL FRAMING DETAIL" THIS SHEET FOR FRAMING REQUIREMENTS.
4. ALL DUCTS, PIPES, CONDUITS, FRAMING MEMBERS, ETC. PASSING THROUGH WALLS OR PARTITIONS AS WELL AS GAPS AT PERIMETER OF PARTITIONS SHALL BE ENCLOSED IN GALVANIZED SHEET METAL SLEEVES PACKED IN STAVING INSULATION WHEN PASSING THRU NEW OR EXISTING WALLS OR PARTITIONS.
5. PROVIDE TESTED AND APPROVED FIRESTOP ASSEMBLY IN ACCORDANCE WITH DIVISION 7 SECTIONS "PENETRATION FIRESTOPPING" AND "JOINT FIRESTOPPING" MEETING THE RATING OF THE CONSTRUCTION LISTED. PROVIDE AROUND ALL PENETRATIONS SUCH AS DUCTS, PIPES, CONDUITS, ETC. AND AROUND FRAMING MEMBERS SUCH AS COLUMNS, BEAMS, GIRDERS, BAR JOIST, TRUSSES, ETC. AND AT THE PERIMETER OF THE PARTITION ASSEMBLY.
6. PROVIDE DEFLECTION TRACKS AT ALL GYPSUM WALLBOARD PARTITIONS, REFER TO DETAIL ON **4/9-A601.**
7. SOUND ATTENUATION BLANKETS SHALL EXTEND FROM FLOOR TO A HEIGHT EQUAL TO THE LOWEST GYPSUM WALLBOARD PARTITION FACE UNLESS OTHERWISE SPECIFIED.
8. FOR ALL DOORS AND BORROWED LIGHT OPENINGS, LARGER THAN 3'-0" WIDE, PROVIDE 16 GAUGE STRUCTURAL STEEL STUDS AT JAMB FOR FULL HEIGHT OF PARTITION AND AT HEAD FOR WIDTH OF OPENING. FRAMING SHALL BE SIMILAR TO "TYPICAL FRAMING ELEVATION" AS SHOWN WITHIN THESE DRAWINGS.
9. PROVIDE MOISTURE RESISTANT GYPSUM WALLBOARD MIN. 4'-0" ON BOTH SIDES OF CENTERLINE OF THE FOLLOWING ITEMS: ALL SINKS, SLOP SINKS, DRINKING FOUNTAINS, WATER COOLERS, SHOWERS, TOILETS, AND AT ALL WET AREAS. PROVIDE IN THICKNESS IDENTIFIED IN ASSEMBLY TYPES.
10. PROVIDE GLASS-MAT WATER RESISTANT BACKING BOARD MIN. 4'-0" ON BOTH SIDES OF THE CENTERLINE OF THE FOLLOWING ITEMS: ALL SINKS, SLOP SINKS, DRINKING FOUNTAINS, WATER COOLERS, SHOWERS, TOILETS AND ALL WET AREAS. PROVIDE IN THICKNESS IDENTIFIED IN ASSEMBLY TYPES.
11. PROVIDE 16 GAUGE X 12" WIDE STEEL FLAT STRAPS ANCHORED TO FACE OF STEEL STUDS/CHANNELS AT ALL STEEL STUD WALLS/PARTITIONS FOR THE PROPER MOUNTING AND INSTALLATION OF ALL ITEMS AND EQUIPMENT IDENTIFIED TO BE MOUNTED TO THIS CONSTRUCTION. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: TOILET AND BATH ACCESSORIES, CASEWORK, CABINETS, FURNITURE, RAILINGS, DOOR STOPS, TV MOUNTING BRACKETS, ETC. STRAPS SHALL RUN CONTINUOUS FOR LENGTH/HEIGHT OF EQUIPMENT. INTERMITTENT STRAPS ARE NOT ACCEPTABLE.
12. INSTALL TRUSS-TYPE WALL REINFORCING, EVERY SECOND COURSE, IN CONCRETE BLOCK CONSTRUCTION.

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PERMIT SET

ASSEMBLIES, NOTES AND TYPICAL DETAILS

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No.	DATE	DESCRIPTION

REVISIONS:

AMS (CHECKED BY:)	EMB (DRAWN BY:)
2023035.03 (KA PROJECT NO.)	11/12/2025 (DATE:)
2025-088 (CLIENT PROJECT NO.)	

9-A601
DRAWING NO.

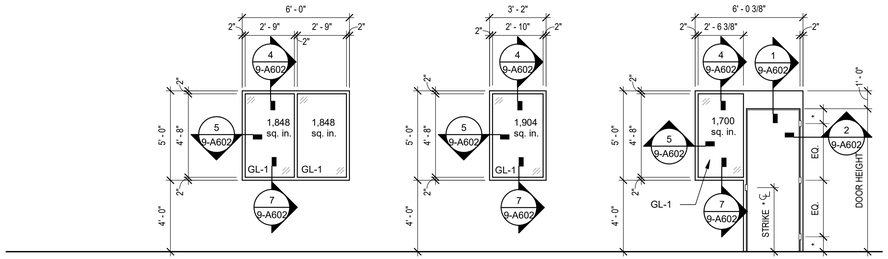
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NINTH FLOOR DOOR SCHEDULE

ALTERNATE NO. 1

DOOR NO.	TYPE	DOOR MATERIAL	DOOR FINISH	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME THROAT	FRAME DETAILS HEAD	FRAME DETAILS JAMB	HARDWARE GROUP	DOOR FIRE RATING	DOOR SIDELITE RATING	REMARKS	DOOR NO.
901.1	A	HM	PT-1	3' - 0"	8' - 0"	1 3/4"	1	HM	PT-1	5 5/8"	1/9-A602	2/9-A602	2.1	90 MIN.	-	COORDINATE CARD ACCESS CONTROL WITH ELECTRICAL DRAWINGS	901.1
901.2	A	STEEL	PT-1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	2.0	20 MIN.	-		901.2
901A	A	HM	PT-1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	2.0	-	-		901A
903	A (EXIST.)	HM (EXIST.)	PT-1	3' - 0"	8' - 0"	1 3/4"	EXIST.	HM (EXIST.)	PT-1	EXIST.	EXIST.	EXIST.	6.0	EXIST. VIF.	-	COORDINATE CARD ACCESS CONTROL WITH ELECTRICAL DRAWINGS. "PREPARE AND PATCH EXIST. DOOR FRAME FOR NEW CARD ACCESS READER."	903
909	B.1	HM	PT-1	3' - 0"	8' - 0"	1 3/4"	SF-5	HM	PT-1	5 5/8"	1 & 4/9-A602	2,5 & 6/9-A602	1.1	120 MIN.	120 MIN.	COORDINATE CARD ACCESS CONTROL WITH ELECTRICAL DRAWINGS	909
910	B.1	HM	PT-1	3' - 0"	8' - 0"	1 3/4"	SF-6	HM	PT-1	5 5/8"	1 & 4/9-A602	2,5 & 6/9-A602	1.0	120 MIN.	120 MIN.	COORDINATE CARD ACCESS CONTROL WITH ELECTRICAL DRAWINGS	910
911	B.1	HM	PT-1	3' - 0"	8' - 0"	1 3/4"	SF-6	HM	PT-1	5 5/8"	1 & 4/9-A602	2,5 & 6/9-A602	1.0	120 MIN.	120 MIN.	COORDINATE CARD ACCESS CONTROL WITH ELECTRICAL DRAWINGS	911
912	B.1	HM	PT-1	3' - 0"	8' - 0"	1 3/4"	SF-6	HM	PT-1	5 5/8"	1 & 4/9-A602	2,5 & 6/9-A602	1.0	120 MIN.	120 MIN.	COORDINATE CARD ACCESS CONTROL WITH ELECTRICAL DRAWINGS	912
914	C	HM	PT-1	6' - 0"	8' - 0"	1 3/4"	3	HM	PT-1	5 5/8"	1/9-A602	2/9-A602	3.0	120 MIN.	-	COORDINATE CARD ACCESS CONTROL WITH ELECTRICAL DRAWINGS	914
914A	B	HM	PT-1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	2.0	60 MIN.	-		914A
914B	A	HM	PT-1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	4.0	90 MIN.	-		914B
914C	A	STEEL	PT-1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	2.0	20 MIN.	-		914C
914D	A	HM	PT-1	3' - 6"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	5.0	20 MIN.	-		914D
920	C	HM	PT-1	6' - 0"	8' - 0"	1 3/4"	3	HM	PT-1	5 5/8"	1/9-A602	2/9-A602	3.0	120 MIN.	-	COORDINATE CARD ACCESS CONTROL WITH ELECTRICAL DRAWINGS	920
920A	A	STEEL	PT-1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	2.0	20 MIN.	-		920A
920B	A	HM	PT-1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	4.0	90 MIN.	-		920B
920C	B	HM	PT-1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT-1	5 5/8"	3/9-A602	2/9-A602	2.0	60 MIN.	-		920C

HM STOREFRONT TYPES

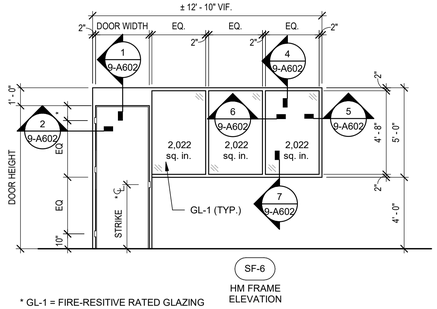


SF-1 SF-2 HM STOREFRONT ELEVATION (NOT USED)

SF-3 HM STOREFRONT ELEVATION

SF-4 HM STOREFRONT ELEVATION

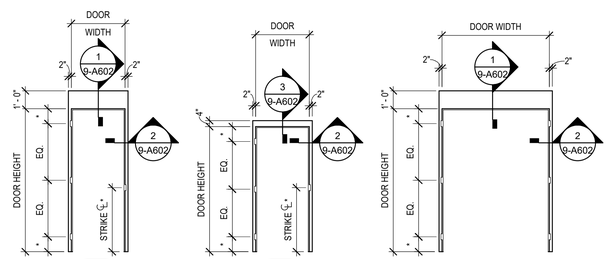
SF-5 HM STOREFRONT ELEVATION



SF-6 HM FRAME ELEVATION

* GL-1 = FIRE-RESISTIVE RATED GLAZING

HM FRAME TYPES

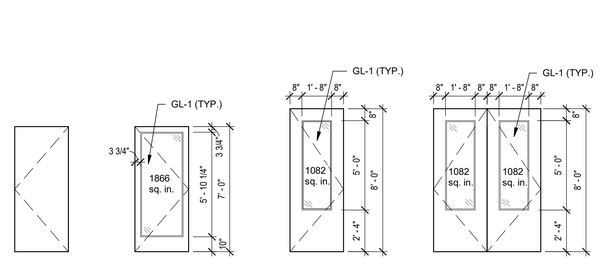


1 HM FRAME ELEVATION

2 HM FRAME ELEVATION

3 HM FRAME ELEVATION

DOOR TYPES

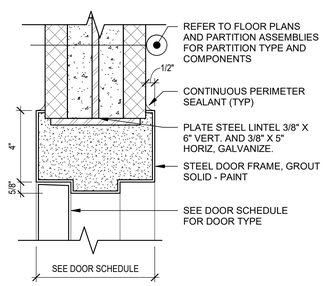


A FLUSH DOOR

B FLUSH DOOR WITH FULL-LITE

B.1 FLUSH DOOR WITH FULL-LITE

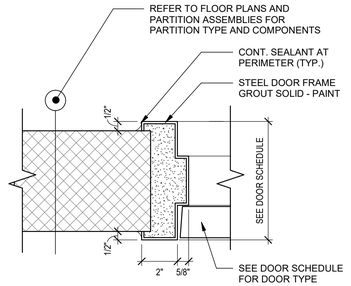
C FLUSH DOUBLE DOORS WITH FULL-LITE



DOOR HEAD DETAIL

SCALE: 3" = 1'-0"

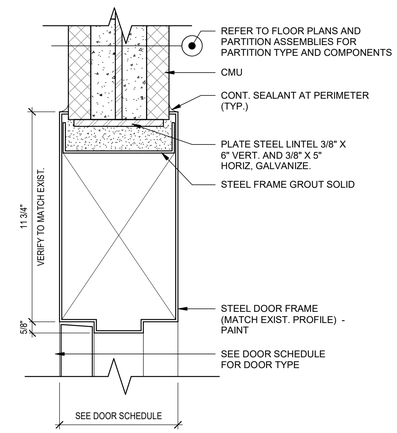
3 9-A602



DOOR JAMB DETAIL

SCALE: 3" = 1'-0"

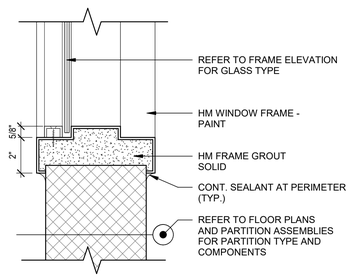
2 9-A602



DOOR HEAD DETAIL

SCALE: 3" = 1'-0"

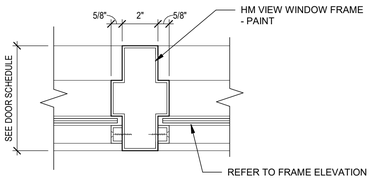
1 9-A602



WINDOW SILL DETAIL

SCALE: 3" = 1'-0"

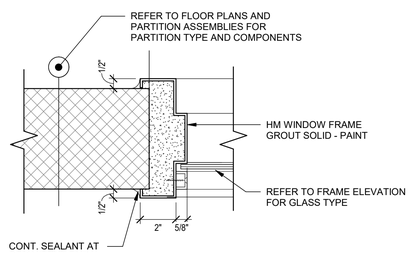
7 9-A602



INTERMEDIATE WINDOW JAMB DETAIL

SCALE: 3" = 1'-0"

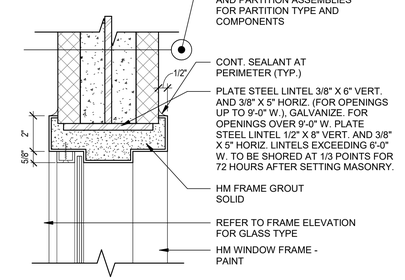
6 9-A602



WINDOW JAMB DETAIL

SCALE: 3" = 1'-0"

5 9-A602



WINDOW HEAD DETAIL

SCALE: 3" = 1'-0"

4 9-A602

11/13/2025 1:18:38 PM

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DOOR SCHEDULE, DOOR TYPES, FRAME TYPES, AND WINDOW TYPES

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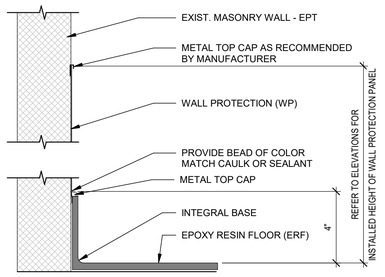
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No.	DATE	DESCRIPTION

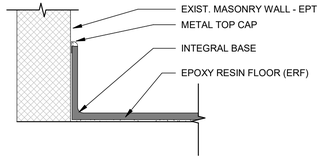
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KA PROJECT NO. 2023035.03	DATE: 11/12/2025
CLIENT PROJECT NO. 2025-088	

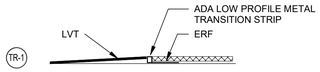
9-A602
DRAWING NO.



INTEGRAL BASE DETAIL (AT WALL PROTECTION)

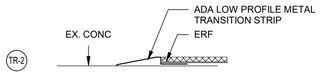


INTEGRAL BASE DETAIL



TR-1
MFG: MANHATTAN STRIP COMPANY
STYLE: EXTRUDED 1/4"
COLOR: ALUMINUM

***NOTE: FEATHER SUBSTRATE UNDERNEATH NEW LVT TO MATCH FINISH HEIGHT OF ERF



TR-2
MFG: SCHLUTER
STYLE: RENO-RAMP/K
COLOR: TO BE SELECTED



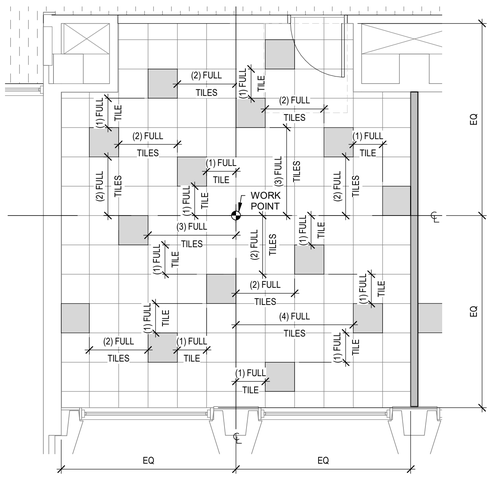
TR-3
MFG: FUTURA TRANSITIONS
STYLE: 3mm TO CARPET TILE "B"
COLOR: ETCHED NICKEL



TR-4

BUTT NEW LVT UP TO EXISTING VCT TILE

ENSURE NO GAPS OR JOINTS WHERE DIRT CAN COLLECT



FINISH DETAIL - PATTERN "A"

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

3 / 9-A700

INTERIOR DETAILS

SCALE: 3" = 1'-0"

1 / 9-A700

PROVIDE GLASS BACKER WHERE SIGN IS INSTALLED ON GLASS, TYP.

INTERIOR ELEVATION

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

2 / 9-A700

ROOM FINISH LEGEND

ACOUSTIC PANEL CEILING

APC-1 MFG: ARMSTRONG
STYLE: ULTIMA LAY-IN TEGULAR
SIZE: 24"x48"
FINISH: PREFIN.

APC-2 MFG: ARMSTRONG
STYLE: ULTIMA LAY-IN TEGULAR
SIZE: 24"x24"
FINISH: PREFIN.

CARPET TILE

CPT-1 MFG: MILLIKEN
STYLE: REMIX REMASTERED BASS LINE TRIMLINE
COLOR: VINYL WITH SAPPHIRE BSL183-27
SIZE: 50cm x 50cm
INSTALL: MONOLITHIC

CPT-2 MFG: MILLIKEN
STYLE: FORMWORK
COLOR: SAPPHIRE FWK183
SIZE: 50cm x 50cm
INSTALL: MONOLITHIC

****REFER TO PATTERN "A" FOR LAYOUT OF ACCENT TILES

EPOXY RESIN FLOORING

ERF-1 MFG: STONHARD
STYLE: STONHARD QBF CUSTOM 1/16" FLAKE
COLOR: REFER TO ARCHITECT'S SAMPLE.
CUSTOM BLEND CONSISTING OF -
50% F9959 (WHITE)
40% F1415 (GREY)
10% F6604 (BLUE)
INSTALL: WITH INTEGRAL 4" COVE BASE

LUXURY VINYL TILE

LVT-1 MFG: TEKNOFLOR
COLLECTION: T3 LVT
STYLE: ABSTRACT TILE
COLOR: AGENCY
SIZE: 18" X 18"
INSTALL: MONOLITHIC

RUBBER BASE

RB-1 MFG: JOHNSONITE
STYLE: THERMOPLASTIC RUBBER COVE BASE
COLOR: CHARCOAL 20
SIZE: 4" HEIGHT, MANUFACTURER'S STANDARD COIL LENGTH

RB-2 MFG: JOHNSONITE
STYLE: THERMOPLASTIC RUBBER (NO TOE)
COLOR: BLACK 40
SIZE: 4" HEIGHT, MANUFACTURER'S STANDARD COIL LENGTH

PAINT
"EPT DENOTES EPOXY PAINT

EPT-1 MFG: SHERWIN WILLIAMS
COLOR: NEBULOUS WHITE SW 7063
FINISH: EGGSHELL, EPOXY BLOCK FILLER

EPT-2 MFG: SHERWIN WILLIAMS
COLOR: CITYSCAPE SW 7067
FINISH: EGGSHELL, EPOXY BLOCK FILLER

PT-1 MFG: SHERWIN WILLIAMS
COLOR: CITYSCAPE SW 7067
(METAL FRAMES AND TRIM)
FINISH: SEMI-GLOSS

PT-2 MFG: SHERWIN WILLIAMS
COLOR: CITYSCAPE 7067
(EXPOSED CEILINGS & PIPING)
FINISH: SATIN

PT-3 MFG: SHERWIN WILLIAMS
COLOR: NEBULOUS WHITE SW 7063 (FIELD)
FINISH: EGGSHELL

PT-4 MFG: SHERWIN WILLIAMS
COLOR: CITYSCAPE SW 7067 (ACCENT)
FINISH: EGGSHELL

WALL PROTECTION

WP-1 MFG:CS ACROVYN
STYLE: ACROVYN SOLID COLORS
SIZE: 4'x8', .040" THICKNESS, FULL HEIGHT
COLOR: FOG #265

CG-1 MFG:CS ACROVYN
STYLE: SSM-20AN
SIZE: 2"x2", FULL HEIGHT
COLOR: FOG #265

ABBREVIATIONS

APC	ACOUSTIC PANEL CEILING	PLAM	PLASTIC LAMINATE
CPT	CARPET	PLT	PORCELAIN TILE
CMT	CERAMIC MOSAIC TILE	PREFIN	PREFINISHED
CT	CARPET TILE	QT	QUARRY TILE
CWT	CERAMIC WALL TILE	REFIN	REFINISH
CMU	CONCRETE MASONRY UNIT	RB	RESILIENT BASE
CG	CORNER GUARD	SVL	SHEET VINYL
EPT	EPOXY PAINT	SSM	SOLID SURFACE MATERIAL
EXIST	EXISTING	SVT	SOLID VINYL TILE
EXP	EXPOSED	SGFT	STRUCTURAL GLAZED FACING TILE
GWB	GYPSUM WALL BOARD	TERR	TERRAZZO
LVT	LUXURY VINYL TILE	VCT	VINYL COMPOSITION TILE
PT	PAINT	VWC	VINYL WALLCOVERING
PLAS	PLASTER	WD	WOOD

ROOM FINISH SCHEDULE NOTES

1. REFER TO SHEETS **9-A701** FOR FLOOR PATTERNS AND ACCENT PAINT WALL LOCATIONS.
2. REFER TO SHEETS **9-A402 AND 9-A403** FOR INTERIOR ELEVATIONS.
3. REFER TO SHEETS **9-A111** FOR EXTENT OF CEILING AND SOFFIT FINISHES.

GENERAL FINISH NOTES

1. PAINTING OF WALL SURFACES INCLUDES ALL FREE STANDING COLUMNS, AND MISCELLANEOUS VERTICAL SURFACES UNLESS NOTED OTHERWISE.
2. PAINTING OF CEILING INCLUDES ALL STEPS, SOFFITS, VAULTS, FASCIAS, AND MISCELLANEOUS VERTICAL SURFACES UNLESS NOTED OTHERWISE. DO NOT PAINT EXPOSED STAINLESS STEEL DUCT.
3. PAINT ALL GYPSUM WALLBOARD CEILINGS AND HORIZONTAL SOFFIT SURFACES TO MATCH ACOUSTICAL TILE UNLESS NOTED OTHERWISE ON SCHEDULE OR INTERIOR ELEVATIONS.
4. PAINTING OF NEW AND EXISTING CONSTRUCTION SHALL ALSO INCLUDE, BUT NOT BE LIMITED TO: PIPE, CONDUIT, ELECTRIC PANELS, LINTELS, METAL FRAMING AND PANELS, AND ANY OTHER EXPOSED ITEMS NOT OTHERWISE PRE-FINISHED.
5. CONTRACTOR SHALL COMPLETE REPAIR/PATCHING OF ALL EXISTING DAMAGED SURFACES AS A PREPARATION FOR PRIMING AND PAINTING.
6. PROTECT ALL ADJACENT WORK BY SUITABLE COVERING DURING WORK PROGRESS.
7. ALL PAINTS, FILLERS AND SIMILAR MATERIALS SHALL BE DELIVERED IN THE ORIGINAL CONTAINERS, WITH THE SEALS UNBROKEN AND LABELS INTACT AND WITH THE MANUFACTURER'S INSTRUCTIONS PRINTED THEREON.
8. WHENEVER NECESSARY TO OBTAIN REQUIRED RESULTS, A WHOLE WALL SHALL BE REFINISHED RATHER THAN SPOT FINISHING WHERE A PORTION OF FINISH HAS BEEN DAMAGED OR IS UNSATISFACTORY.
9. MAKE EDGE OF PAINT ADJOINING OTHER MATERIALS OR COLORS SHARP AND CLEAN AND WITHOUT OVERLAP. REMOVE ADHESIVE OR PAINT SPOTS FROM FINISHED FLOORS, GLASS OR OTHER SURFACES. LEAVE WORK AREA CLEAN.
10. TRANSITION STRIPS TO BE ADA COMPLIANT AND SUBMITTED TO OWNER PRIOR TO INSTALLATION. REFER TO TRANSITION DETAILS.
11. ALL EXISTING WALLS TO REMAIN/RECEIVE NEW SCHEDULED FINISH SHALL BE REPAIRED, PATCHED, SANDED, ETC. SO THAT THE LEVEL OF FINISH ON EXISTING WALLS IS THE SAME AS THE LEVEL OF FINISH ON NEW WALLS.
12. ALL INTERIOR STEEL DOORS AND STEEL FRAMES TO BE PAINTED. REFER TO DOOR SCHEDULE FOR COLOR SELECTION.
13. INSTALL OF RESILIENT AND TILE BASE INCLUDES ALL FREESTANDING COLUMNS, CASEWORK, WALL AREAS BELOW SINK, SHELVES, VANITIES AND COUNTERTOPS AND WALL AREAS BEHIND FREESTANDING FURNITURE AND FILES.

A1.1

Sign Type A1.1

Classification
Framed Room ID with Window
(insert by client)

Product Code
EBJ/WS-1/390

Size
6-1/8" x 6-1/8"

Background Color
Flint

Graphics/Copy Color
White

220

PROVIDE UB STANDARD SIGNAGE AS INDICATED. SIGNAGE INSTALLED ON GLASS WILL REQUIRE GLASS BACKER.

NINTH FLOOR ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR MATERIAL	FLOOR FINISH	BASE	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS WEST MATERIAL	WALLS WEST FINISH	CEILING MATERIAL	CEILING FINISH	SOFFIT MATERIAL	SOFFIT FINISH	REMARKS	ROOM NO.
901	COMMON EQUIP	EX CONC	ERF-1	ERF-1	CMU	EPT-1	EXIST CMU	EPT-1	CMU/EXIST CMU	EPT-1	CMU/EXIST CMU	EPT-1	EXPOSED	PT-2	-	-		901
901A	STORAGE	EX CONC	ERF-1	ERF-1	CMU	EPT-1	EXIST CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	EXPOSED	PT-2	-	-		901A
909	WORK ROOM D (4)	EX CONC	CT-1/CT-2	RB-1	CMU	PT-4	CMU	PT-4	EXIST CMU	PT-3	GWB	PT-3	APC-2	PREFIN	-	-	REFER TO FINISH PATTERN "A"	909
910	WORK ROOM C (11)	EX CONC	CT-1/CT-2	RB-1	CMU	PT-4	CMU	PT-4	GWB	PT-3	GWB	PT-3	APC-2	PREFIN	-	-	REFER TO FINISH PATTERN "A"	910
911	WORK ROOM B (11)	EX CONC	CT-1/CT-2	RB-1	CMU	PT-4	CMU	PT-4	GWB	PT-3	GWB	PT-3	APC-2	PREFIN	-	-	REFER TO FINISH PATTERN "A"	911
912	WORK ROOM A (11)	EX CONC	CT-1/CT-2	RB-1	CMU	PT-4	CMU	PT-4	GWB	PT-3	CMU	PT-3	APC-2	PREFIN	-	-	REFER TO PATTERN "A"	912
914	LAB	EX CONC	ERF-1	ERF-1	-	-	CMU/EXIST CMU	EPT-1/WP-1	CMU	EPT-1	CMU	EPT-1/EPT-2/WP-1	EXPOSED	PT-2	-	-	PROVIDE WP-1 AT EMERGENCY EYE WASH/SHOWER. REFER TO ELEVATIONS	914
914-01	COMMON PASSAGE	EX CONC	ERF-1	ERF-1	CMU	EPT-1	EXIST CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	EXPOSED	PT-2	-	-		914-01
914-02	EQUIP. ALCOVE	EX CONC	ERF-1	ERF-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	APC-2	PREFIN	-	-		914-02
914A	CELL CULTURE	EX CONC	ERF-1	ERF-1	EXIST CMU	EPT-2	EXIST CMU	EPT-2	CMU	EPT-1	EXIST CMU	EPT-1	EXPOSED	PT-2	-	-		914A
914B	LAB	EX CONC	ERF-1	ERF-1	EXIST CMU	EPT-1	-	-	CMU	EPT-2	CMU	EPT-2	EXPOSED	PT-2	-	-		914B
914C	MICROSCOPY	EX CONC	ERF-1	ERF-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	APC-2	PREFIN	-	-		914C
914D	FREEZER	EX CONC	ERF-1	ERF-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	EXPOSED	PT-2	-	-		914D
914F	COLD	EX CONC	ERF-1	ERF-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	APC-2	PREFIN	-	-		914F
920	LAB	EX CONC	ERF-1	ERF-1	-	-	CMU	EPT-1/WP-1	CMU	EPT-2/WP-1	CMU	EPT-1/EPT-2/WP-1	EXPOSED	PT-2	-	-	PROVIDE WP-1 AT EMERGENCY EYE WASH/SHOWER. REFER TO ELEVATIONS	920
920A	MICROSCOPY	EX CONC	ERF-1	ERF-1	CMU	EPT-1	EXIST CMU	EPT-1	CMU	EPT-1	CMU	EPT-1	APC-2	PREFIN	-	-		920A
920B	LAB	EX CONC	ERF-1	ERF-1	EXIST CMU	EPT-1	-	-	CMU	EPT-2	CMU	EPT-2	EXPOSED	PT-2	-	-		920B
920C	CELL CULTURE	EX CONC	ERF-1	ERF-1	EXIST CMU	EPT-2	CMU	EPT-2	EXIST CMU	EPT-1	CMU	EPT-1	EXPOSED	PT-2	-	-		920C
C904	CORRIDOR	EX CONC	EXIST VCT/ LVT-1	RB-2	EXIST CMU	EPT-1	EXIST CMU	EPT-1	CMU	EPT-2	CMU/EXIST CMU	EPT-1/EPT-2	APC-1 / EXIST.	PREFIN / EXIST.	-	-		C904
C909	CORRIDOR	EX CONC	LVT-1	RB-2	EX. CMU/ CMU	EPT-1	EX. CMU/ CMU	EPT-1	EXIST CMU	EPT-1	EXIST CMU	EPT-1	APC-1	PREFIN	-	-		C909
C910	STAIR VESTIBULE	EX CONC	LVT-1	RB-2	EXIST CMU	EPT-1	EXIST CMU	EPT-1	EXIST CMU	EPT-1	EXIST CMU	EPT-2	APC-1	PREFIN	-	-		C910

Kideney Architects

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ROOM FINISH SCHEDULE, LEGEND, AND INTERIOR DETAILS

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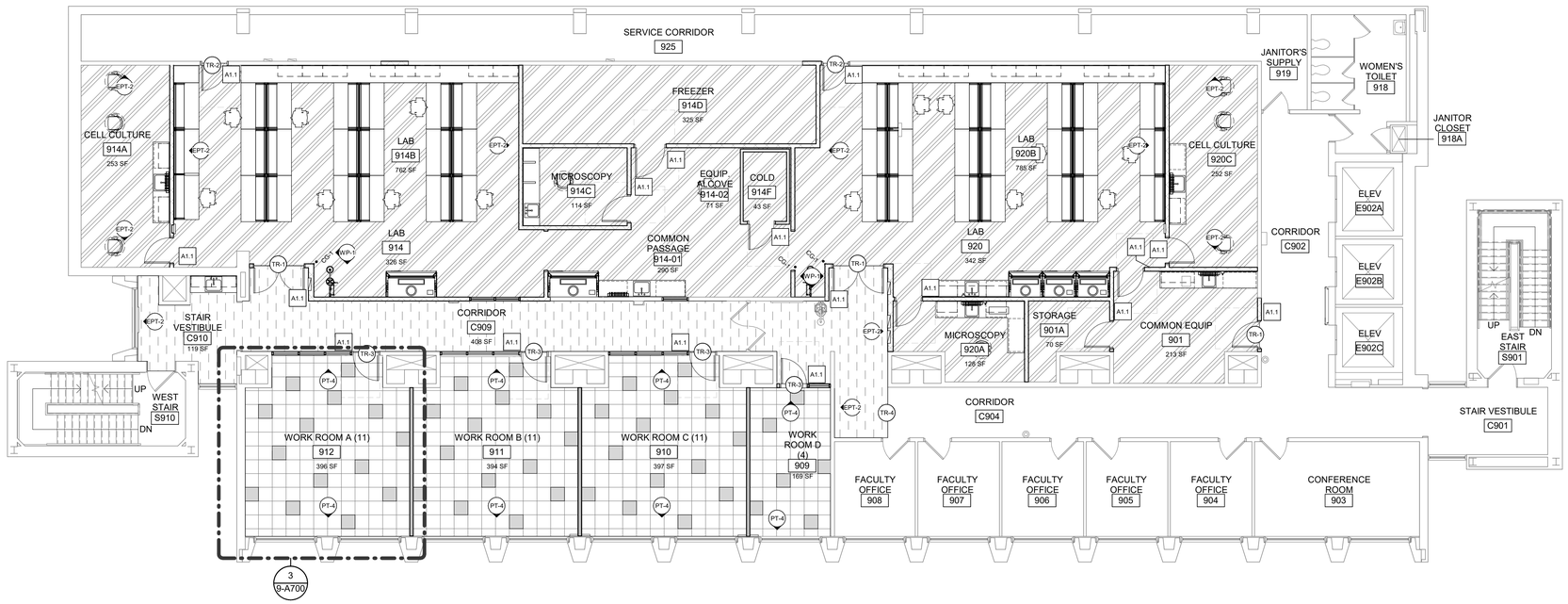
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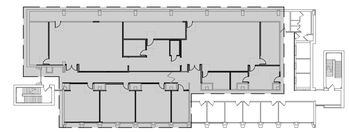
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NINTH FLOOR FINISH AND WAYFINDING PLAN

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

1 / 9-A701



KEY PLAN

SCALE: NTS

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NINTH FLOOR FINISH AND WAYFINDING PLAN

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Pic	Equipment Name	Manufacturer	New or Existing	Size ("Wx"Dx"H)	Existing Location	New Location	Quantity	Shared	Power	Water	Data	Ventilation	Other	Critical Adjacency to Other Equipment	Critical Adjacency to Other Lab or Research	Remarks
A	-80 Freezer	pHcbi	existing	42,36,78	hall 9th floor outside 913	915	1		y	n	n	n				
B	-80 Freezer	ThermoSci TSX Series	existing	42,36,78	hall 9th floor outside 913	915	1		y, 230v	n	n	n				
C	-80 Freezer	VWR	existing	42,36,78	hall 9th floor outside 913	915	1		y, 110v	n	n	n				
D	Gas Cylinder Storage	Airgas	existing	12,12,58	hall 9th floor outside 914	913, 924	8		n	n	n	n				
E	-20 freezer	Frigidaire	existing	32,29,70	910	919	1		y	n	n	n				
F	Fridge/Freezer	Frigidaire	existing	30,30,66	910	919	1		y	n	n	n				
G	Fume Hood	?	existing	60,35,90	910	914	1		y	y	n	y	gas line			
H	-80 Freezer	pHcbi	existing	44,36,78	913	915	1		y, 115v	n	n	n				
I	-20 freezer	Whirlpool	existing	32,28,68	913	915	1		y	n	n	n				
J	-20 freezer	Woods	existing	34,28,67	913	915	1		y	n	n	n				
K	Fridge	Kelvinator Scientific	existing	52,35,84	913	919	1		y	n	n	n				
L	Environmental Control Rooms	?	existing	large x3	913 (913A-C)	917, 918	3		y	?	y	y				
M	Sink	?	existing	27,29,47	913C	902, 913, 914, 916, 920, 922, 923, 924	8		y	y	n	n				
N	Autoclave	Hirayama	existing	26,26,40	914A	Not Used	1		y, 220v	n	n	y				Not Used
O	Autoclave	Tuttnauer	existing	26,36,55	914A	Not Used	1		y, 230v	n	n	y				Not Used
P	Floating Vent Hood	?	existing	126,50,30	914A	Not Used	1		y	n	n	y		over autoclaves (critical?)		Not Used
Q	Dewars	Thermo, VWR, various	existing	28,28,56	914A	Not Used	10		n	n	n	n				Not Used
R	Ice maker	Scotsman	existing	20,24,38	914A	923	1		y, 115v	y	n	n				
S	Incubators	FisherSci	existing	24,24,66	914A	924	2(stacked)		y, 120v ea	n	n	n				
T	Micropure Water System	Thermo	existing	36,12,36	914A at sink	923	1		y, 24v	y	n	n		functions by sink		
U	Orbital Shaker	Thermo	existing	47,31,55	914	919	1		y, 120v	n	n	n				
V	Fridge/Freezer	Avanti	existing	22,22,56	914	919	1		y	n	n	n				
W	-20 freezer	Woods	existing	33,28,67	914	914	1		y	n	n	n				
X	Fridge	Frigidaire	existing	32,27,65	914	924	1		y	n	n	n				
Y	Fridge	Frigidaire	existing	32,27,65	914	924	1		y	n	n	n				
Z	-30 freezer	FisherSci	existing	28,34,80	914	915	1		y	n	n	n				
AA	-80 Freezer	VWR	existing	29,32,44	914	915	1		y	n	n	n				
AB	Incubators	VWR	existing	32,28,80	914D, wheeled	924	2(stacked)		y	n	n	n		needs CO2 tank		
AC	Gas Cylinder	Airgas CO2 incubator supply	existing	12,12,58	914D	922	1		n	n	n	n		attached to Incubators		
AD	Fume Hoods	?	existing	61,35,90	914D	920	2		y	?	n	y	gas/vacuum line?			
AE	Laminar Flow Hoods	Thermo	existing	51,30,90	914D	914	2		y	n	n	y	gas/vacuum line?			
AF	Flammables cabinet	Justrite	existing	43,18,18	914D	914	1		n	n	n	n				
AG	Floating Vent Hood	?	existing	24,50,24	914D	Not Used	1		y	n	n	y				Not Used
AH	Bio Safety Hood	Baker Co Biochem Gard	existing	72,29,108	914C	Not Used	1		y, 115,115,115	n	n	y				Not Used
AI	Fridge/Freezer	Kelvinator	existing	28,26,64	914B	916	1		y	n	n	n				
AJ	Incubation Microscope	Zeiss	existing	64,36,30	914B	916	1		y	n	y	n		needs CO2 tank		
AK	Gas Cylinder	Airgas CO2 microscope supply	existing	12,12,58	914B	916, 922	1		n	n	n	n		attached to Incubation Microscope		
AL	Water Treatment Cartridge	Nuclepore	existing	26,10,22	914B over sink	916	1		y	y	n	n		functions by sink		
AM	-20 freezer	Woods	existing	33,28,67	916	919	1		y	n	n	n				
AN	-20 freezer	VWR	existing	32,29,71	916	914	1		y	n	n	n				
AO	Fridge	Fridgidaire	existing	34,29,67	916	914	1		y	n	n	n				
AP	-20 freezer	Woods	existing	33,28,67	916	915	1		y	n	n	n				
AQ	-80 Freezer	VWR	existing	44,39,78	916	915	1		y, 120v	n	n	n				
AR	Centrifuge	Beckman Avanti J25I	existing	28,34,46	916	919	1		y	n	n	n				
AS	Fume Hood	?	existing	68,36,90	916	Not Used	1		y	y	n	y	gas line			Not Used
AT	Fume Hood	?	existing	60,37,86	916	Not Used	1		y	y	n	y	gas,vacuum line			Not Used
AU	Flammables cabinet	Justrite	existing	43,18,24	916	Not Used	1		n	n	n	n				Not Used
AV	Fridge	Fridgidaire	existing	32,27,66	909	913	1		y	n	n	n				
AW	Bio Safety Hood	Labconco	existing	42,32,91	909	913	1		y	n	n	n	vacuum line			
AX	Bio Safety Hood	Forma Scientific	existing	58,32,95	909	913	1		y,115v	n	n	n	vacuum line			
AY	Incubators	Thermo Electron Corp	existing	31,29,82	909	913	2(stacked)		y	n	n	n		needs CO2 tank		
AZ	Incubators	VWR	existing	31,29,81	909	913	2(stacked)		y	n	n	n		needs CO2 tank		
BA	Gas Cylinders	Airgas CO2 incubator supply	existing	12,12,58	909	913, 924	2		n	n	n	n		attached to Incubators		
BB	Jacketed Incubator	Thermo Electron Corp	existing	26,24,50	909	913	1		y,115v	n	n	n		needs CO2 tank		
BC	Fridge	Kelvinator	existing	28,26,64	909	913	1		y	n	n	n				
BD	Bio Safety Hood	Baker Co Biochem Gard	existing	76,32,84	909	913	1		y	n	n	n				
BE	Autofill Nitrogen Storage System		New (NIC)	34.5" x 41.5" x 41"	-	915	2									
BF	Security Camera, Closed Circuit		New (NIC)		-	902, C901, C902, C910, 914, 915, 919, 920	9									
BG	Glassware Washer & Dryer		New (NIC)	26.38" x 23.31" x78.5"	-	923	1									
BH	Gas cushioned Microscopy Table		New (NIC)	20" x 18" x3"	-	922	1									
BI	Autoclave w/ Electric Steam Generator		New (NIC)	34.3" x 62.1" x46.3"	-	923	1									
BJ	Glass Box Disposal		existing	12,12,27	?	913, 924	2									
BK	Bio Waste Bin		existing	36,36	?	914, 920	4									
BL	Digital Display Screen		New (NIC)		-	C901	1									
CA	Card Access		New (NIC)		-	909. 910, 911. 912, 914, 920, 923	7									

CB	Allegra X-22R centrifuge	Beckman Coulter		18.5,28,32	18.5	28	32	16576	909																	
CC	UV Stratalinker 1800	Stratagene		18.5,9,11	18.5	9	11	1831.5	909																	
CD	TMS microscope	Nikon		7.5,18,18.5	7.5	18	18.5	2497.5	909																	
CE	water bath	Shel Lab		15.5,29,21.5	15.5	29	21.5	9664.25	909																	
CF	mini fridge	Danby		18,19(36),34	18	19	34	11628	910																	
CG	microwave	Sunbeam		18,14(28),11	18	14	11	2772	910																	
CH	pipetting robot	Opentrons		25,24(36),27+computer(1 screen)	25	24	27	16200	910																	
CI	(1/3) LSR Fortessa X20 flow cytometer	BD		34(19),30,32(45)+computer(2 screens)	34	30	32	32640	913															large flow cytometer w/accessories			
CJ	(2/3) FACSFlow Supply System	BD		23,18,23	23	18	23	9522	913															connected to large flow cytometer but okay on floor			
CK	(3/3) VT550 viscometer & FisherSci heat control	Haake, FisherScientific		22,18,27	22	18	27	10692	913															accessories for large flow cytometer			
CL	AKTA prime plus FPLC	GE		15,20,22+computer(1 screen)	15	20	22	6600	913																	
CM	(1/3) Savant RVT5105 vapor trap	ThermoScientific		23,25,19	23	25	19	10925	913															3 parts of TS concentrator all connected		
CM	(2/3) Savant SPD131DDA concentrator	ThermoScientific		15,18,13(26)	15	18	13	3510	913															3 parts of TS concentrator all connected		
CM	(3/3) OFP400 vacuum pump	ThermoScientific		16,10,19	16	10	19	3040	913															3 parts of TS concentrator all connected		
CN	Z1particle counter	Coulter		11,18,18	11	18	18	3564	913																	
CO	S810 centrifuge	eppendorf		22,25,14(36)	22	25	14	7700	913																	
CP	(1996) FACSCalibur cell sorter	Becton Dickinson(BD)		37,28,28,	37	28	28	29008	913																	
CQ	orbital shaker	?		28,24,10(20)	28	24	10	6720	913b																	
CR	rocker platform	Bellco		22,22,10(20)	22	22	10	4840	913b																	
CS	(vintage) scale	Mettler		11,18,24	11	18	24	4752	913b																	
CT	(burried) laminar flow hood	?		74,7,84	74	30	84	**186480**	913c																	
CU	sonic dismembrator			30,13(26),35	30	13	35	13650	913c																	
CV	homogenizer	Yeipower		17,22,18.5	17	22	18.5	6919	913c																	
CW	microscope aparatus area	Zeiss		48,36,28+computer(2 screens)	48	36	28	48384	913d																	
CX	Incu-shaker 10L	Benchmark		25,27,19(40)	25	27	19	12825	914																	
CY	Sorvall Biofuge Primo R centrifuge	ThermoScientific		23,20,13(29)	23	20	13	5980	914																	
CZ	UV2 sterilizing pcr workstation	UVP		29,24,29	29	24	29	20184	914																	
DA	Sorvall legend x1r centrifuge	ThermoScientific		25,24,14(34)	25	24	14	8400	914																	
DB	model 10 lab oven	Quincy Lab		15,14(28),18(28)	15	14	18	3780	914																	
DC	UV3 HEPA PCR workstation	UVP		29,24,33	29	24	33	22968	914																	
DD	recirculator	VWR		15,28,23	15	28	23	9660	914																	
DE	mini fridge	Black&Decker		19,18(36),26	19	18	26	8892	914																	
DF	microwave	Avanti		18,12(26),11	18	12	11	2376	914																	
DG	5415R centrifuge	eppendorf		12,18,10(20)	12	18	10	2160	914																	
DH	mini fridge	American BioTech Supply 4		19,20(40),20	19	20	20	7600	914																	
DI	mini fridge	American BioTech Supply 4		19,20(40),20	19	20	20	7600	914																	
DJ	mini fridge	American BioTech Supply 4		19,20(40),20	19	20	20	7600	914																	
DK	mini fridge	American BioTech Supply 4		19,20(40),20	19	20	20	7600	914																	
DL	mini fridge	Emerson		19,18(38),20	19	18	20	6840	914																	
DM	mini fridge	Emerson		19,18(38),20	19	18	20	6840	914																	
DN	GenePulser Xcell	BIO-RAD		13,12,12	13	12	12	1872	914																	
DO	MaxQ4000 shaker	ThermoScientific		24,36,22(38)	24	36	22	19008	914a																	
DP	5301 concentrator	eppendorf		13,24,12(20)	13	24	12	3744	914a																	
DQ	environ-shaker	Lab-Line		30,28,22(44)	30	28	22	18480	914a																	
DR	MaxQ4000 shaker	ThermoScientific		24,36,22(38)	24	36	22	19008	914a																	
DS	(3pc) CentriVap	Labconco		40,26,17(27)	40	26	17	17680	914a																	
DT	Observer D1 microscope	Zeiss		44,31,27	44	31	27	36828	914b																	
DU	Med 64 microelectrode system w/laptop	Alpha MED Scientific		17,20,18	17	20	18	6120	914b																	
DV	Diaphot microscope w/lamp	Nikon		28,20,26	28	20	26	14560	914b																	
DW	Foto/Prep I	Fotodyne		18.5,13.5,16	18.5	13.5	16	3996	914b																	
DX	EC3 Imaging System	UVP		17.5,17,39+computer(1 screen)	17.5	17	39	11602.5	914b																	
DY	CX_ microscope	Olympus		12,18,20	12	18	20	4320	914c																	
DZ	Allegra x-14R centrifuge	Beckman Coulter		30,27,16(37)	30	27	16	12960	914c																	
EA	heat bath	VWR		14,14,11(20)	14	14	11	2156	914c																	
EB	(4pc) rotavapor r-300, heating bath b-300 base,	Buchi		48,16,38	48	16	38	29184	914d															does this need to be in a hood?		
EC	(dissassembled) (4pc?) rotovap apparatus	Buchi		487,167,38?	48	16	38	29184	914d																	
ED	water bath?	VWR		16,26,18	16	26	18	7488	914d																	
EE	probe station?	VWR		32,14,26	32	14	26	11648	914d															does this need to be in a hood?		
EF	Tissue bath apparatus	n/a		40,18,40+computer(1 screen)+1gas cylinder	40	18	40	28800	916																	
EG	3343 tensile tester	Instron		15,20,52+computer(1 screen)	15	20	52	15600	916																	
EH	ChemiDoc Imaging System	BIO-RAD		20,24,21	20	24	21	10080	916																	
EI	variable speed rocker	VWR		14.5,12.5,12	14.5	12.5	12	2175	916																	
EJ	mini fridge	Sanyo		21.5,21(41),34	21.5	21	34	15351	916																	
EK	C1000 Thermal Cycler & CFX 96 Real Time Syste	BIO-RAD		14,18.5,22	14	18.5	22	5698	916																	
EL	C1000 Thermal Cycler & CFX 96 Real Time Syste	BIO-RAD		14,18.5,22+computer(1 screen)	14	18.5	22	5698	916																	
EM	Orbital shaker	Lab-Line		13,16,7(19)	13	16	7	1456	916																	
EN	EpMotion 5070 pipetting robot	eppendorf		25.5(55.5),24,26	25.5	24	26	15912	916																	
EO	Nanoblot station w/PolyScience circulator	various		64,27,20.5	64	27	20.5	35424	916																	
EP	Seahorse XFe96 analyzer	Agilent		17,15,23+computer(1 screen)	17	15	23	5865	916																	
EQ	Synergy 4 plate reader	BioTek		17.5,21,15+computer(1 screen)	17.5	21	15	5512.5	916																	
ER	5430 centrifuge	eppendorf		13.5,16.5,10(22)	13.5	16.5	10	2227.5	916																	
ES	microwave	?		17.5,13(24.5),10.5	17.5	13	10.5	2388.75	916																	
ET	C1000 Thermal Cycler	BIO-RAD		13,18,11	13	18	11	2574	916																	
EU	MyiQ PCR System	BIO-RAD		11,24.5(31.5),13	11	24.5	13	3503.5	916																	
EV	lab oven	Blue		18,18(34),28.5	18	18	28.5	9234	916																	
EW	EG1160 tissue embedding system	Leica		42.5,24,13(24)	42.5	24	13	13260	916																	
EX	RM2155 microtome	Leica		17(23),21,12	17	21	12	4284	916																	
EY	NCL150 microscope w/lamp house	Diagnostic Instruments?		13.5,22,19.5	13.5	22	19.5	5791.5	916																	
EZ	SmartSpec3000	BIO-RAD		13.5,11.5,5.5(8.5)	13.5	11.5	5.5	853.875	916																	
FA	-20 mini freezer	Marvel Scientific		15,22(35),24.5	15	22	24	7920	916																	

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OWNERS LAB EQUIPMENT
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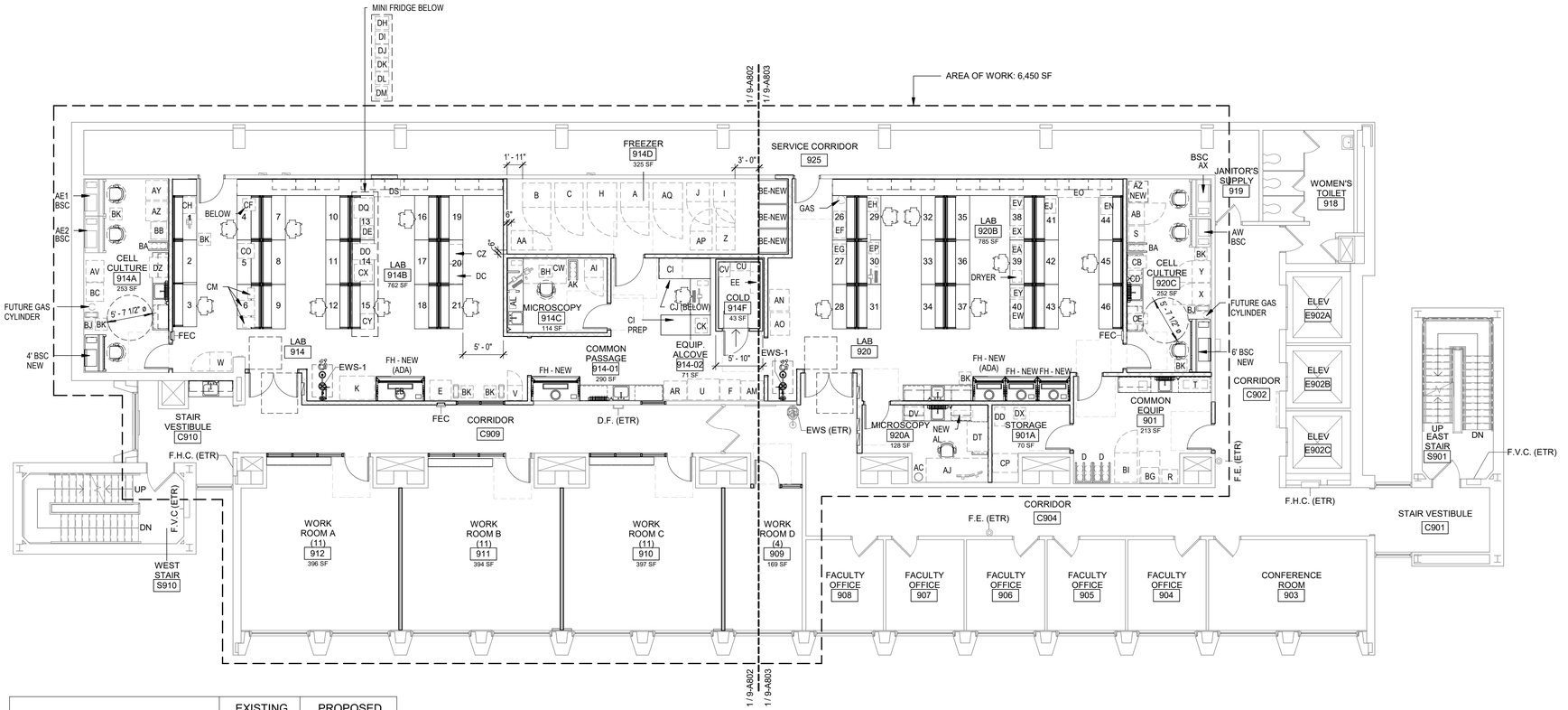
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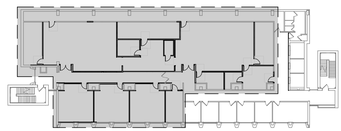
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	EXISTING	PROPOSED
WORK STATIONS (PERSON)	25	37
LAB BENCH STATIONS (PERSON)	42	46
COUNTER (LENGTH)	257'-9"	136'
STORAGE (LENGTH)	41'	

PROPOSED NINTH FLOOR PLAN

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



KEY PLAN

SCALE: NTS

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NINTH FLOOR OWNERS EQUIPMENT PLAN (FOR REFERENCE ONLY)

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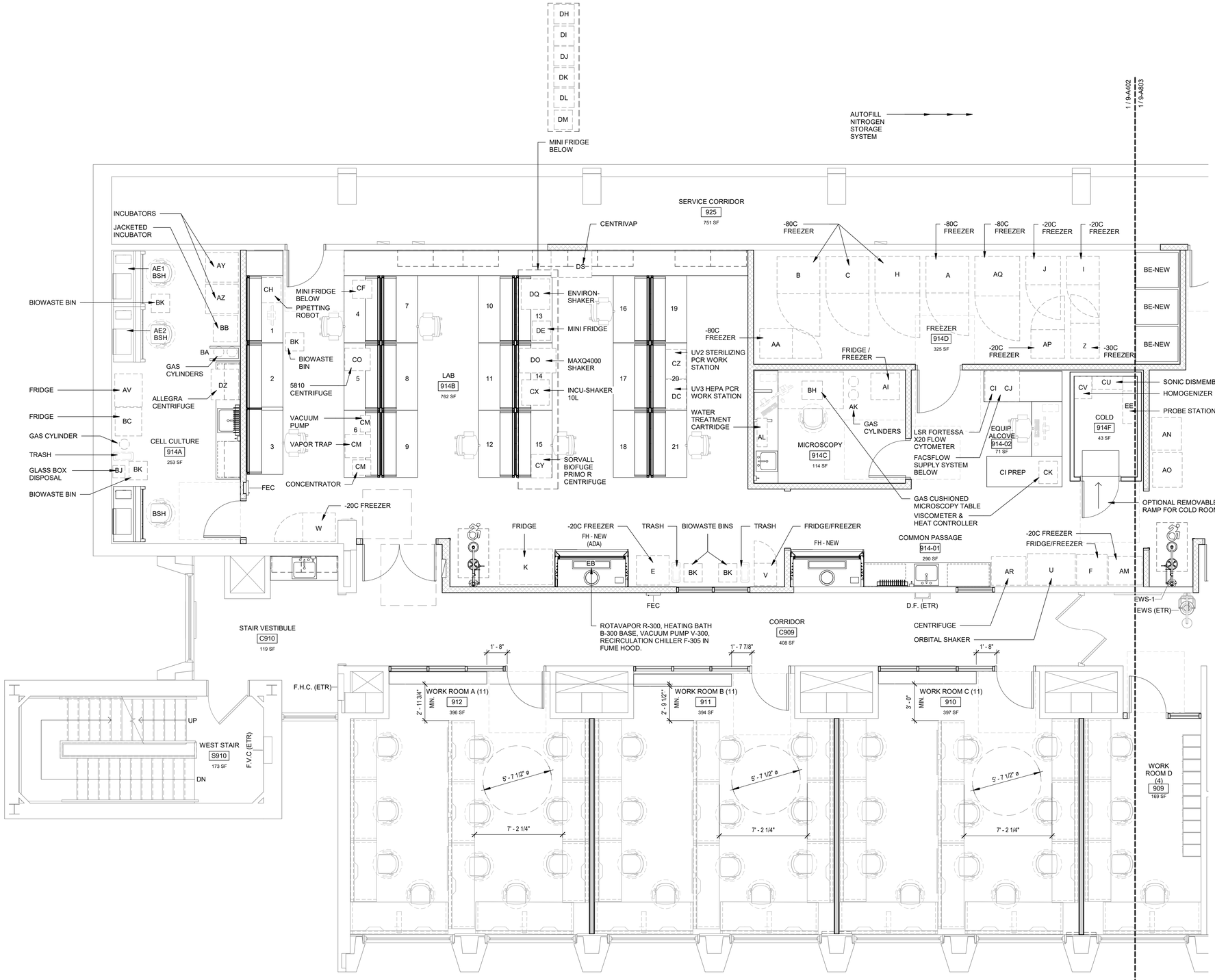
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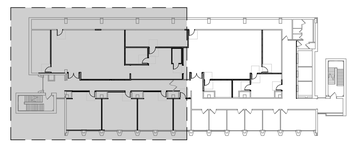
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ENLARGED NINTH FLOOR EQUIPMENT PLAN - WEST

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

1 / 9-A802



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR OWNERS EQUIPMENT PLAN - WEST (FOR REFERENCE ONLY)

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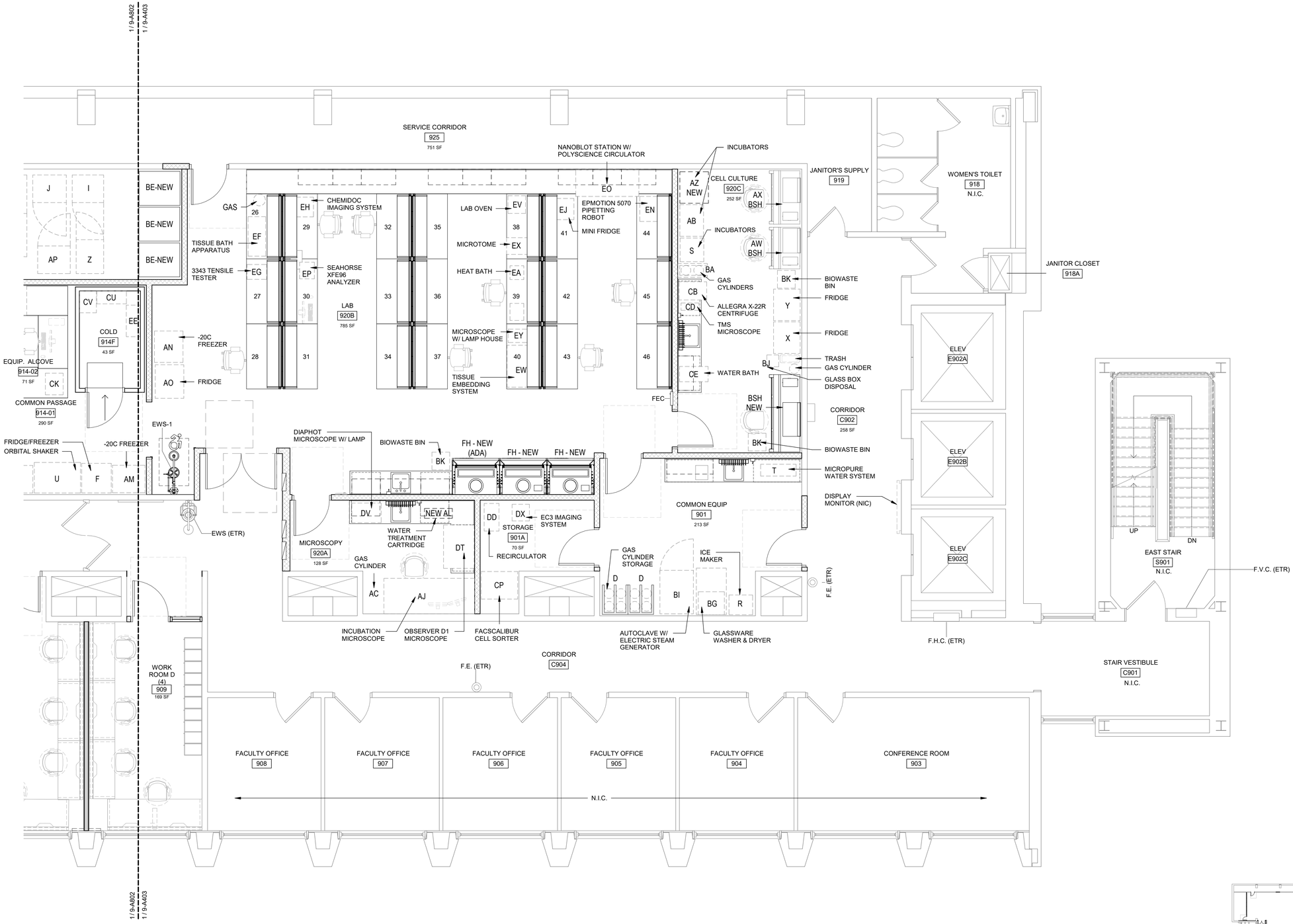
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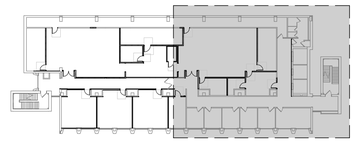
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ENLARGED NINTH FLOOR EQUIPMENT PLAN - EAST

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

1 / 9-A803



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR OWNER SEQUIPMENT PLAN - EAST (FOR REFERENCE ONLY)

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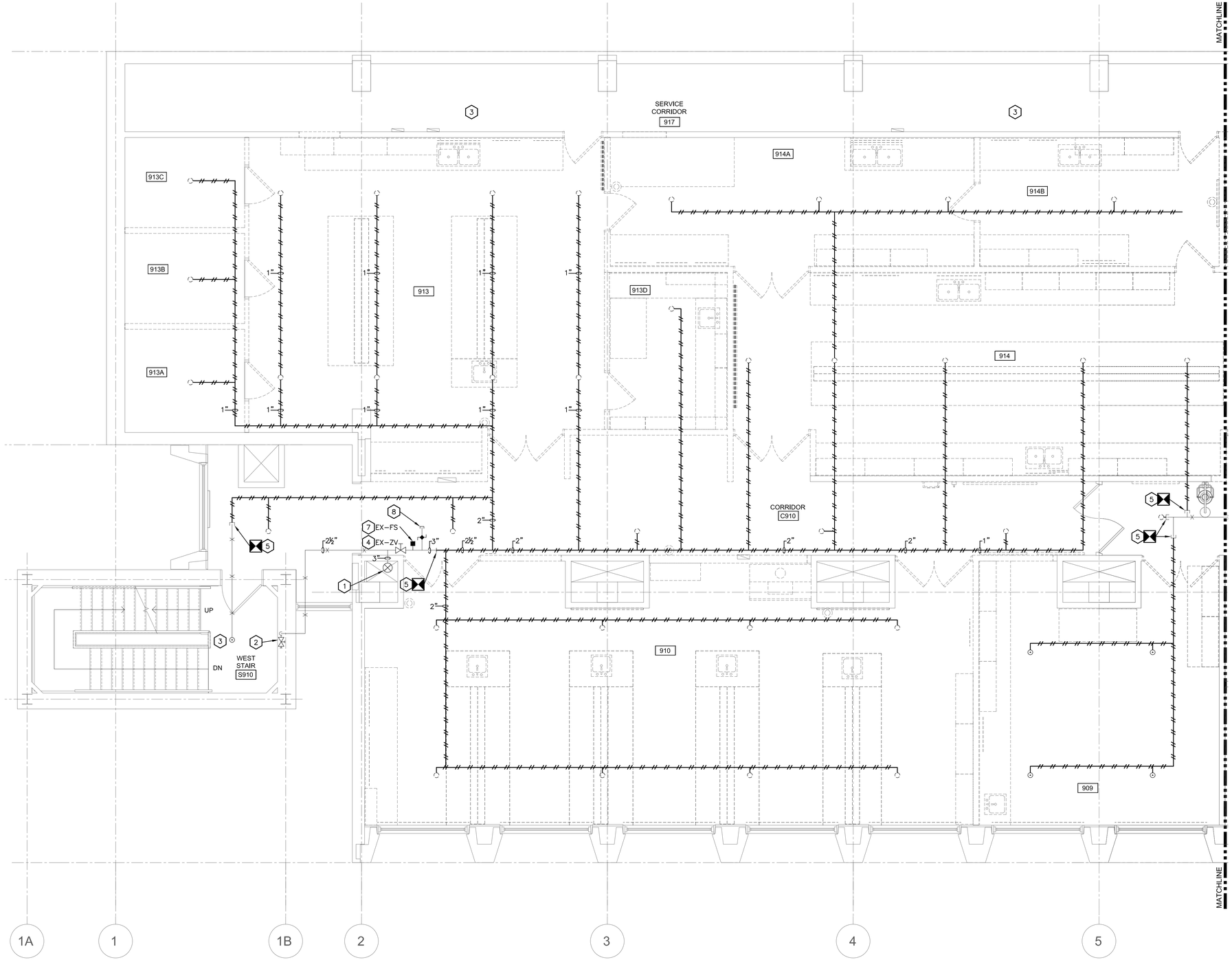
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ENLARGED NINTH FLOOR FIRE PROTECTION REMOVALS PLAN - WEST

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

1 FD101

DRAWING NOTES:

A. THE SPRINKLER SYSTEM SHALL BE CONSTRUCTED AS DETAILED ON THE CONTRACT DOCUMENTS. ADJUSTMENTS TO LOCATIONS OF VARIOUS ITEMS MAY BE REQUIRED BY FIELD CONDITIONS, VERIFY PRIOR TO INSTALLATION.

B. PROVIDE ALL CUTTING, PATCHING, AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH OPENINGS TO MATCH ADJACENT WALLS, FLOORS, AND CEILINGS.

C. PROVIDE COMPUTER HYDRAULIC CALCULATIONS ACCORDING TO THE PIPE SIZING SHOWN. PROVIDE LIGHT HAZARD DENSITY OF .10 GPM/SQ. FT. MINIMUM SPRINKLER DISCHARGE SHALL BE 15 GPM. PROVIDE 20 FPS MAX. VELOCITY.

D. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT AND SYSTEMS. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, ACCESSORIES, ETC. REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL REROUTE PIPING THAT WILL BE ON CONFLICT WITH OTHER TRADES.

E. EXISTING EQUIPMENT LOCATIONS, SPRINKLER HEADS, FIREMAINS AND PIPE SIZES SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE WORK.

F. ALL INSTALLATIONS INCLUDING WELDING SHALL BE PER NFPA 13 CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH OTHER TRADES.

G. ALL SINGLE HEAD SPRINKLER BRANCH LINES ARE 1" UNLESS OTHERWISE NOTED. ALL SPRINKLER PIPING SHALL BE SCHEDULE 40.

H. SYSTEM SHUTDOWNS AND CUTOVERS SHALL BE AS SPECIFIED IN DIVISION 01000–GENERAL REQUIREMENTS, SECTION C, ARTICLE 16.

I. PROVIDE AUXILIARY DRAINS AT ALL LOW POINTS IN THE SYSTEM. ALL LOW POINTS WILL BE INDICATED ON THE AS–BUILT DRAWINGS.

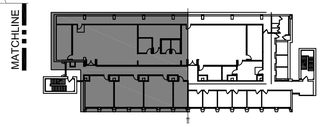
J. ANY DISCREPANCIES, CONFLICTS OR CHANGES ON THE DRAWINGS, NOTES AND SPECIFICATIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE ENGINEER FOR COORDINATION PRIOR TO STARTING ANY WORK.

K. THE FACILITY SHALL REMAIN FULLY OCCUPIED AND OPERATIONAL DURING CONSTRUCTION. PROVIDE ALL MEANS, METHODS, AND TEMPORARY MEASURES NECESSARY TO MAINTAIN ALL SYSTEM OPERATIONAL.

L. THE PROJECT WILL BE CONSTRUCTED IN MULTIPLE SEQUENCES.

KEYED NOTES: (#)

1. EXISTING 6" STANDPIPE TO REMAIN. NO WORK REQUIRED.
2. EXISTING HOSE VALVE TO REMAIN. NO WORK REQUIRED.
3. EXISTING SPRINKLER TO REMAIN. NO WORK REQUIRED.
4. EXISTING FLOOR CONTROL ZONE TO REMAIN. NO WORK REQUIRED.
5. DISCONNECT AND REMOVE EXISTING SPRINKLER PIPING TO THIS POINT AND CAP FOR NEW CONNECTION.
6. EXISTING SPRINKLER TO REMAIN. NO WORK REQUIRED.
7. EXISTING FLOW SWITCH TO REMAIN. NO WORK REQUIRED.
8. EXISTING INSPECTOR TEST AND DRAIN ASSEMBLY TO REMAIN. NO WORK REQUIRED.



KEY PLAN

SCALE: NTS

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STATE OF NEW YORK · RAVI RAMAN · No. 066344 · LICENSED PROFESSIONAL ENGINEER

RAM-TECH Engineers, P.C.
Expires: 02/28/2027
DOS ID# 1395067
RA&# 23019
Signed on: 11/07/2025
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ENLARGED NINTH FLOOR FIRE PROTECTION REMOVALS PLAN - WEST

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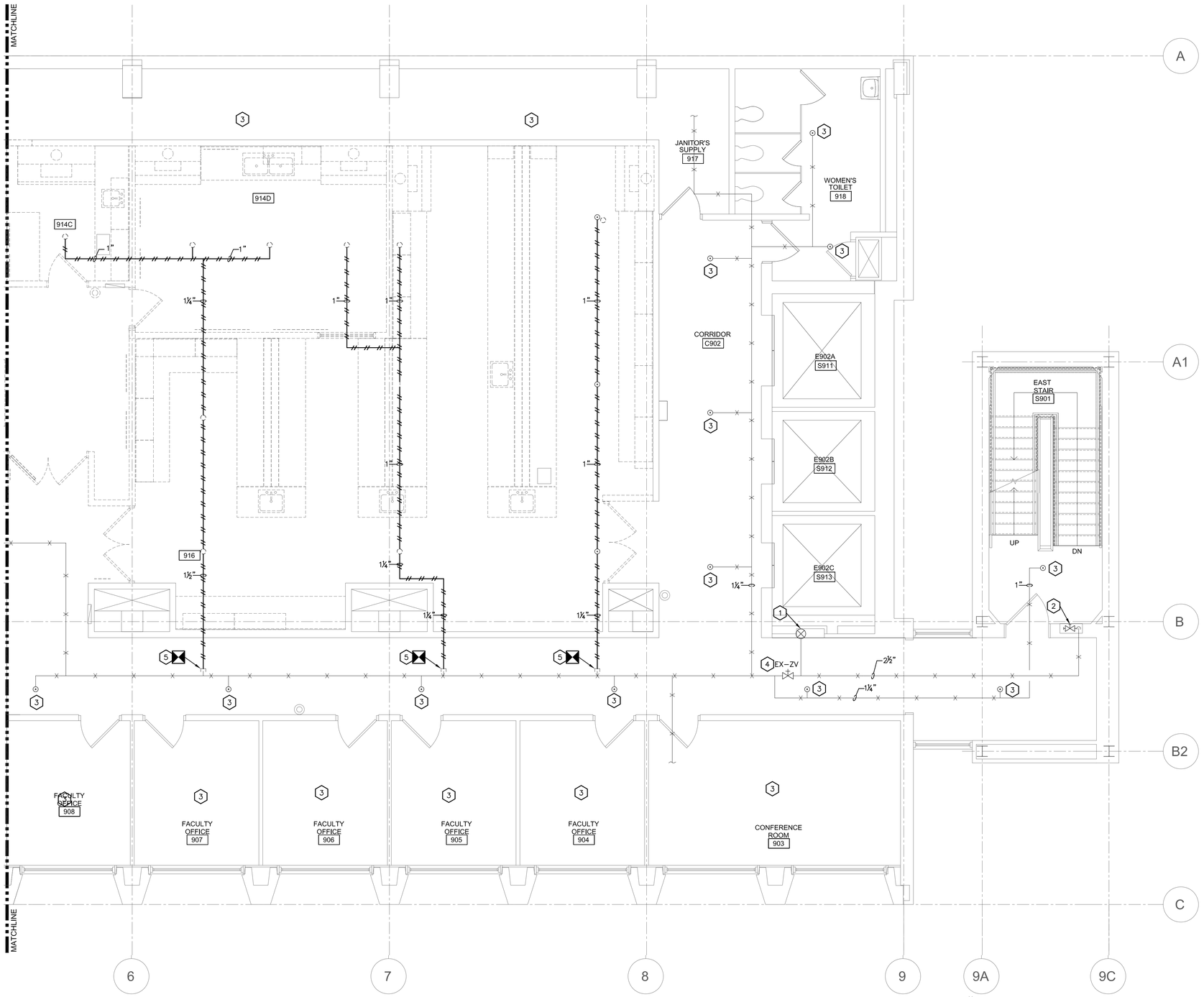
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ENLARGED NINTH FLOOR FIRE PROTECTION REMOVALS PLAN - EAST

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

1 FD102

DRAWING NOTES:

A. THE SPRINKLER SYSTEM SHALL BE CONSTRUCTED AS DETAILED ON THE CONTRACT DOCUMENTS. ADJUSTMENTS TO LOCATIONS OF VARIOUS ITEMS MAY BE REQUIRED BY FIELD CONDITIONS, VERIFY PRIOR TO INSTALLATION.

B. PROVIDE ALL CUTTING, PATCHING, AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH OPENINGS TO MATCH ADJACENT WALLS, FLOORS, AND CEILINGS.

C. PROVIDE COMPUTER HYDRAULIC CALCULATIONS ACCORDING TO THE PIPE SIZING SHOWN. PROVIDE LIGHT HAZARD DENSITY OF .10 GPM/SQ. FT. MINIMUM SPRINKLER DISCHARGE SHALL BE 15 GPM. PROVIDE 20 FPS MAX. VELOCITY.

D. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT AND SYSTEMS. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, ACCESSORIES, ETC. REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL REROUTE PIPING THAT WILL BE ON CONFLICT WITH OTHER TRADES.

E. EXISTING EQUIPMENT LOCATIONS, SPRINKLER HEADS, FIREMAINS AND PIPE SIZES SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE WORK.

F. ALL INSTALLATIONS INCLUDING WELDING SHALL BE PER NFPA 13R. CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH OTHER TRADES.

G. ALL SINGLE HEAD SPRINKLER BRANCH LINES ARE 1" UNLESS OTHERWISE NOTED. ALL SPRINKLER PIPING SHALL BE SCHEDULE 40.

H. SYSTEM SHUTDOWNS AND CUTOVERS SHALL BE AS SPECIFIED IN DIVISION 01000–GENERAL REQUIREMENTS, SECTION C, ARTICLE 16.

I. PROVIDE AUXILIARY DRAINS AT ALL LOW POINTS IN THE SYSTEM. ALL LOW POINTS WILL BE INDICATED ON THE AS–BUILT DRAWINGS.

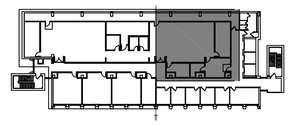
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K. THE FACILITY SHALL REMAIN FULLY OCCUPIED AND OPERATIONAL DURING CONSTRUCTION. PROVIDE ALL MEANS, METHODS, AND TEMPORARY MEASURES NECESSARY TO MAINTAIN ALL SYSTEM OPERATIONAL.

L. THE PROJECT WILL BE CONSTRUCTED IN MULTIPLE SEQUENCES.

KEYED NOTES: (#)

1. EXISTING 6" STANDPIPE TO REMAIN. NO WORK REQUIRED.
2. EXISTING HOSE VALVE TO REMAIN. NO WORK REQUIRED.
3. EXISTING SPRINKLER TO REMAIN. NO WORK REQUIRED.
4. EXISTING FLOOR CONTROL ZONE TO REMAIN. NO WORK REQUIRED.



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR FIRE PROTECTION REMOVALS PLAN - EAST

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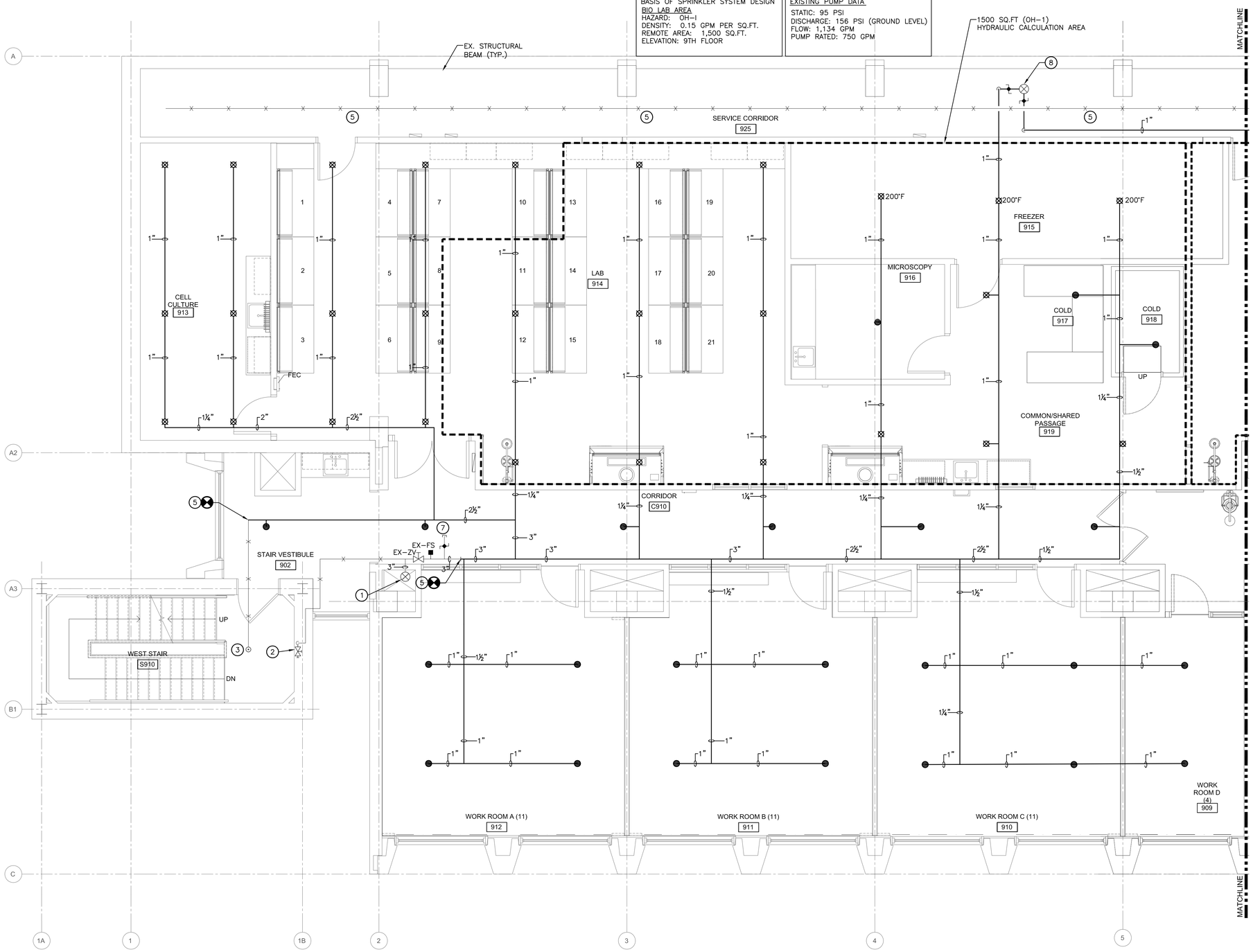
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BASIS OF SPRINKLER SYSTEM DESIGN	EXISTING PUMP DATA
BIO LAB AREA HAZARD: OH–I DENSITY: 0.15 GPM PER SQ.FT. REMOTE AREA: 1,500 SQ.FT. ELEVATION: 9TH FLOOR	STATIC: 95 PSI DISCHARGE: 156 PSI (GROUND LEVEL) FLOW: 1,134 GPM PUMP RATED: 750 GPM



DRAWING NOTES:

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C. PROVIDE COMPUTER HYDRAULIC CALCULATIONS ACCORDING TO THE PIPE SIZING SHOWN. PROVIDE ORDINARY HAZARD DENSITY OF .15 GPM/SQ. FT. MINIMUM SPRINKLER DISCHARGE SHALL BE 15 GPM. PROVIDE 20 FPS MAX. VELOCITY.

D. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT AND SYSTEMS. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, ACCESSORIES, ETC. REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL REROUTE PIPING THAT WILL BE ON CONFLICT WITH OTHER TRADES.

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F. ALL INSTALLATIONS INCLUDING WELDING SHALL BE PER NFPA 13 CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH OTHER TRADES.

G. ALL SINGLE HEAD SPRINKLER BRANCH LINES ARE 1" UNLESS OTHERWISE NOTED. ALL SPRINKLER PIPING SHALL BE SCHEDULE 40.

H. SYSTEM SHUTDOWNS AND CUTOVERS SHALL BE AS SPECIFIED IN DIVISION 01000–GENERAL REQUIREMENTS, SECTION C, ARTICLE 16.

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J. ANY DISCREPANCIES, CONFLICTS OR CHANGES ON THE DRAWINGS, NOTES AND SPECIFICATIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE ENGINEER FOR COORDINATION PRIOR TO STARTING ANY WORK.

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L. THE PROJECT WILL BE CONSTRUCTED IN MULTIPLE SEQUENCES.

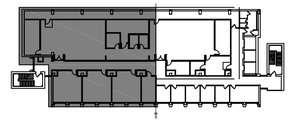
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2. EXISTING HOSE VALVE TO REMAIN. NO WORK REQUIRED.
3. EXISTING SPRINKLER TO REMAIN. NO WORK REQUIRED.
4. EXISTING FLOOR CONTROL ZONE TO REMAIN. NO WORK REQUIRED.
5. CONNECT NEW SPRINKLER PIPING TO EXISTING SPRINKLER PIPING ABOVE CEILING.
6. EXISTING SPRINKLER TO REMAIN. NO WORK REQUIRED.
7. EXISTING 1" INSPECTOR TEST AND DRAIN ABOVE CEILING TO REMAIN.
8. EXISTING 2" DRAIN RISER TO REMAIN.

ENLARGED NINTH FLOOR FIRE PROTECTION PLAN - WEST

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

1 / 9-FP101



KEY PLAN

SCALE: NTS

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RA8# 23019
Signed on: 11/07/2025
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ENLARGED NINTH FLOOR FIRE PROTECTION PLAN - WEST

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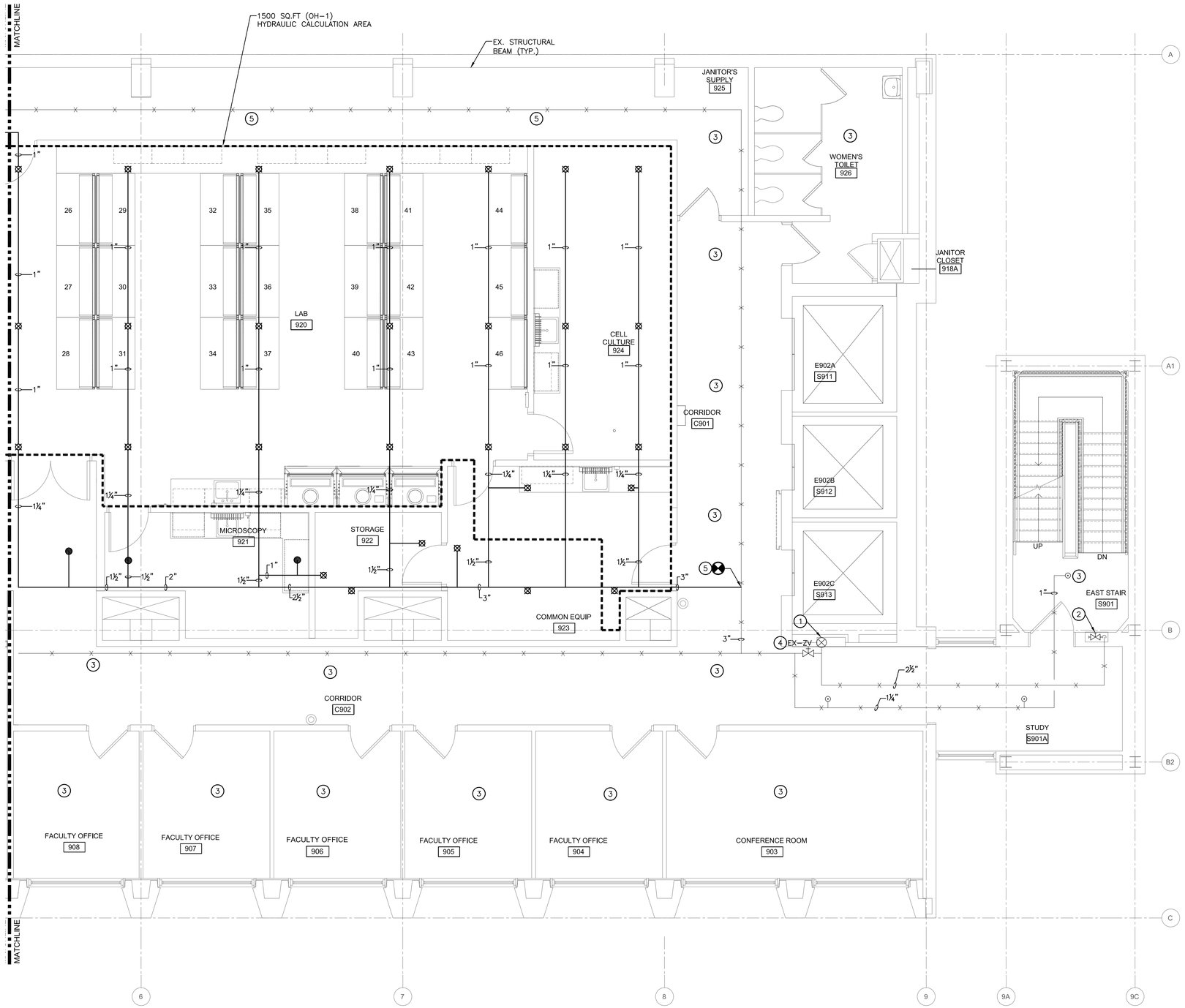
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9-FP101 DRAWING NO.

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BASIS OF SPRINKLER SYSTEM DESIGN	EXISTING PUMP DATA
BIO LAB AREA HAZARD: OH–I DENSITY: 0.15 GPM PER SQ.FT. REMOTE AREA: 1,500 SQ.FT. ELEVATION: 9TH FLOOR	STATIC: 95 PSI DISCHARGE: 156 PSI (GROUND LEVEL) FLOW: 1,134 GPM PUMP RATED: 750 GPM



ENLARGED NINTH FLOOR FIRE PROTECTION PLAN - EAST

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

1 / 9-FP102

N

DRAWING NOTES:

A. THE SPRINKLER SYSTEM SHALL BE CONSTRUCTED AS DETAILED ON THE CONTRACT DOCUMENTS. ADJUSTMENTS TO LOCATIONS OF VARIOUS ITEMS MAY BE REQUIRED BY FIELD CONDITIONS, VERIFY PRIOR TO INSTALLATION.

B. PROVIDE ALL CUTTING, PATCHING, AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH OPENINGS TO MATCH ADJACENT WALLS, FLOORS, AND CEILINGS.

C. PROVIDE COMPUTER HYDRAULIC CALCULATIONS ACCORDING TO THE PIPE SIZING SHOWN. PROVIDE ORDINARY HAZARD DENSITY OF .15 GPM/SQ. FT. MINIMUM SPRINKLER DISCHARGE SHALL BE 15 GPM. PROVIDE 20 FPS MAX. VELOCITY.

D. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT AND SYSTEMS. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, ACCESSORIES, ETC. REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL REROUTE PIPING THAT WILL BE ON CONFLICT WITH OTHER TRADES.

E. EXISTING EQUIPMENT LOCATIONS, SPRINKLER HEADS, FIREMAINS AND PIPE SIZES SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE WORK.

F. ALL INSTALLATIONS INCLUDING WELDING SHALL BE PER NFPA 13 CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH OTHER TRADES.

G. ALL SINGLE HEAD SPRINKLER BRANCH LINES ARE 1" UNLESS OTHERWISE NOTED. ALL SPRINKLER PIPING SHALL BE SCHEDULE 40.

H. SYSTEM SHUTDOWNS AND CUTOVERS SHALL BE AS SPECIFIED IN DIVISION 01000–GENERAL REQUIREMENTS, SECTION C, ARTICLE 16.

I. PROVIDE AUXILIARY DRAINS AT ALL LOW POINTS IN THE SYSTEM. ALL LOW POINTS WILL BE INDICATED ON THE AS–BUILT DRAWINGS.

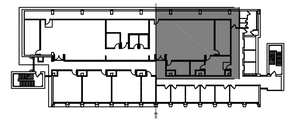
J. ANY DISCREPANCIES, CONFLICTS OR CHANGES ON THE DRAWINGS, NOTES AND SPECIFICATIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE ENGINEER FOR COORDINATION PRIOR TO STARTING ANY WORK.

K. THE FACILITY SHALL REMAIN FULLY OCCUPIED AND OPERATIONAL DURING CONSTRUCTION. PROVIDE ALL MEANS, METHODS, AND TEMPORARY MEASURES NECESSARY TO MAINTAIN ALL SYSTEM OPERATIONAL.

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SCALE: NTS

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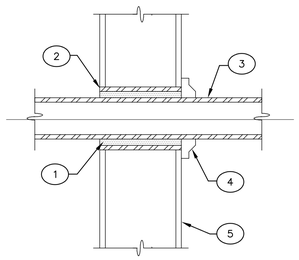
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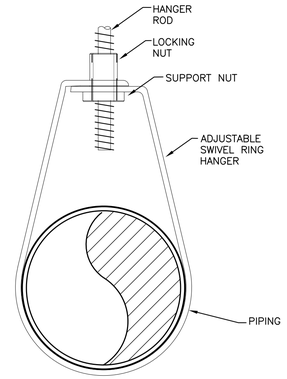
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INTERIOR WALLS

MARK	DESCRIPTION
1	SEAL OR CAULK PENETRATIONS THRU WALLS, WITH FIRESTOPPING ON BOTH SURFACES.
2	TERMINATE SLEEVE FLUSH WITH FINISHED WALL SURFACES.
3	PIPE TO BE CENTERED IN SLEEVE – DO NOT SUPPORT PIPE FROM SLEEVE.
4	FINISHED ESCUTCHEON PLATE FLUSH AGAINST WALL AND OF SIZE TO COMPLETELY COVER OPENING (IF PIPING IS EXPOSED).
5	FINISHED WALL SURFACE.

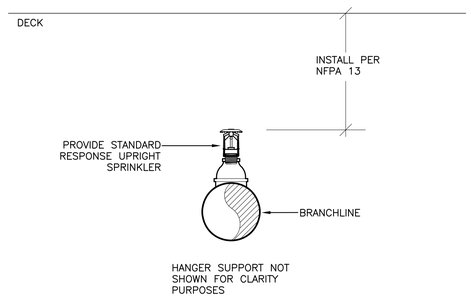
1 HR. RATING: UL# C-AJ-1318
2 HR. RATING: UL# C-AJ-1318

INTERIOR WALL SLEEVE DETAIL



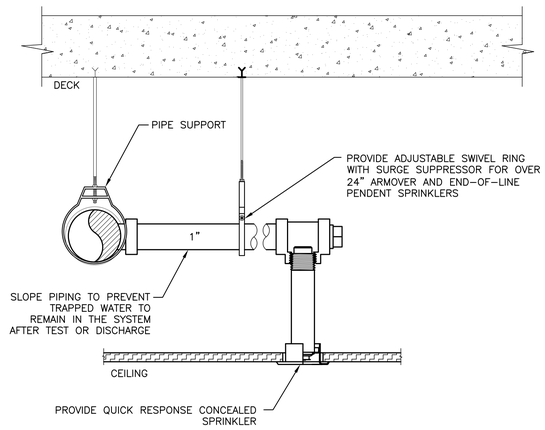
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SPRINKLER SWIVEL RING PIPE HANGER DETAIL (HORIZONTAL PIPING SIZES 1" - 8")



NOT TO SCALE

TYPICAL SPRINKLER DETAILS



NOT TO SCALE

SPRINKLER DETAIL

FIRE PROTECTION SYMBOL LIST

○	EXISTING SPRINKLER TO BE REMOVED	---
⊙	EXISTING SPRINKLER SPRINKLER TO BE REMAIN	---
●	PENDENT CONCEAL SPRINKLER	---
⊠	UPRIGHT SPRINKLER	---
⊗	PIPING RISER	---
X——X	EXISTING SPRINKLER PIPING	---
———	SPRINKLER PIPING	---
	5" STORZ FIRE DEPARTMENT CONNECTION	FDC
	FIRESTOPPING/WALL SLEEVE ASSEMBLY	---
	PIPE UP/DOWN	UP/DN
	PIPE DOWN	DN
	BOTTOM CONNECTION	---
	FLUSHING CAP CONNECTION	---
	CAP CONNECTION	---
	EXISTING OS&Y GATE VALVE (NORMALLY CLOSED)	N. C.
	EXISTING FIRE HOSE VALVE	FHV
	BALL VALVE	
	VALVE SUPERVISORY/TAMPER SWITCH	TS
	WATER FLOW SWITCH	FS
	PRESSURE GAUGE	---
	INSPECTOR'S TEST AND DRAIN W/ SIGHT GLASS	---

HANGER ROD SIZES SCHEDULE

PIPE SIZE	DIAMETER OF ROD	
	IN	MM
1 TO 4 INCHES	3/8	9.5
5 TO 8 INCHES	1/2	12.7
10 TO 12 INCHES	5/8	15.9

NOTE: TOGGLE HANGER FOR THE SUPPORT OF 1 1/2 IN (39MM) OR SMALLER PIPE.

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DETAILS, SCHEDULE & SYMBOL LIST

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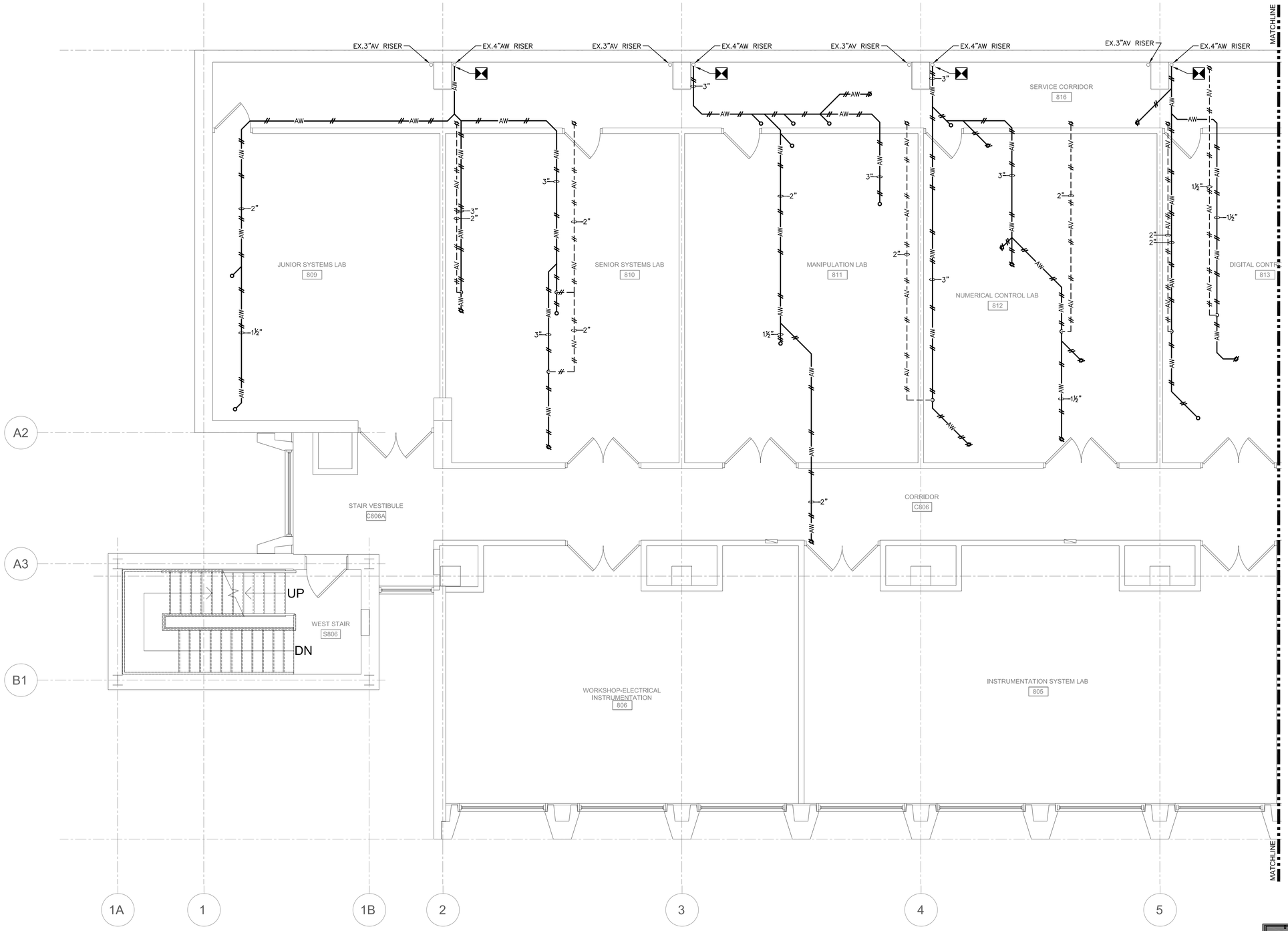
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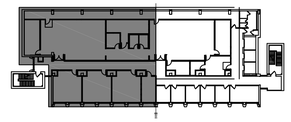
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ENLARGED EIGHTH FLOOR PLUMBING REMOVALS PLAN - WEST

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

1 PD101



KEY PLAN

SCALE: NTS

DRAWING NOTES:

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B. COMPLY WITH ALL RULES AND REGULATIONS OF GOVERNING BODIES AND AUTHORITIES HAVING JURISDICTION REGARDING REMOVAL, REPLACEMENT AND DISPOSAL OF ANY PROPERTY WITHIN THE PROJECT SITE. ALL MATERIAL SHALL BE TAKEN TO LOCATION AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION. IF NO DIRECTIVE IS GIVEN, ALL SUCH PROPERTY SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.

C. COORDINATE ALL REMOVALS WORK WITH HAZARDOUS MATERIALS ABATEMENT DRAWINGS AND REPORTS.

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ENLARGED EIGHTH FLOOR PLUMBING REMOVALS PLAN - WEST

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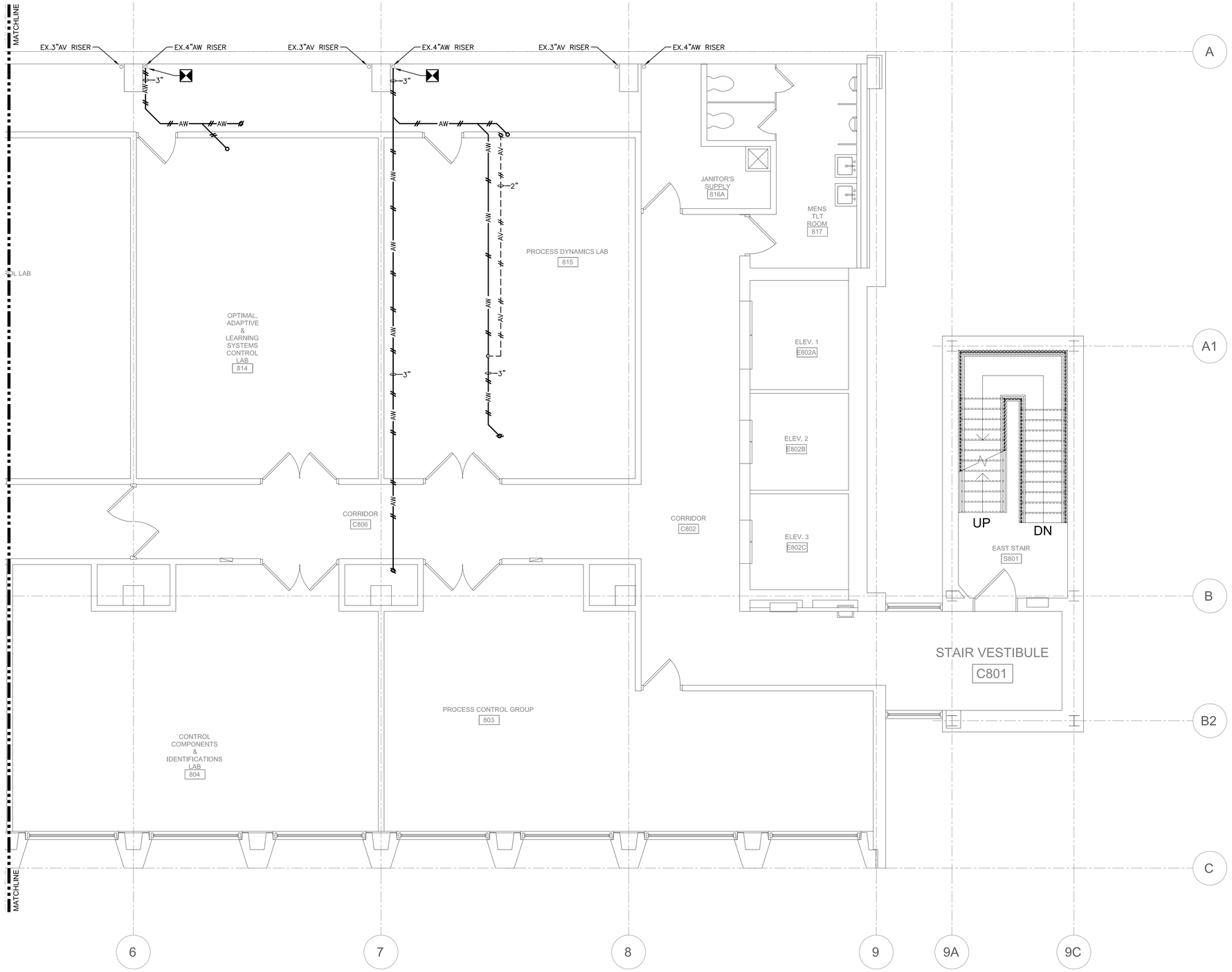
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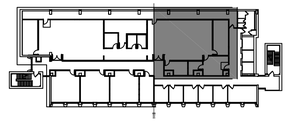
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ENLARGED EIGHTH FLOOR PLUMBING REMOVALS PLAN - EAST

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

1 PD102



KEY PLAN

SCALE: NTS

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ENLARGED EIGHTH FLOOR PLUMBING REMOVALS PLAN - EAST

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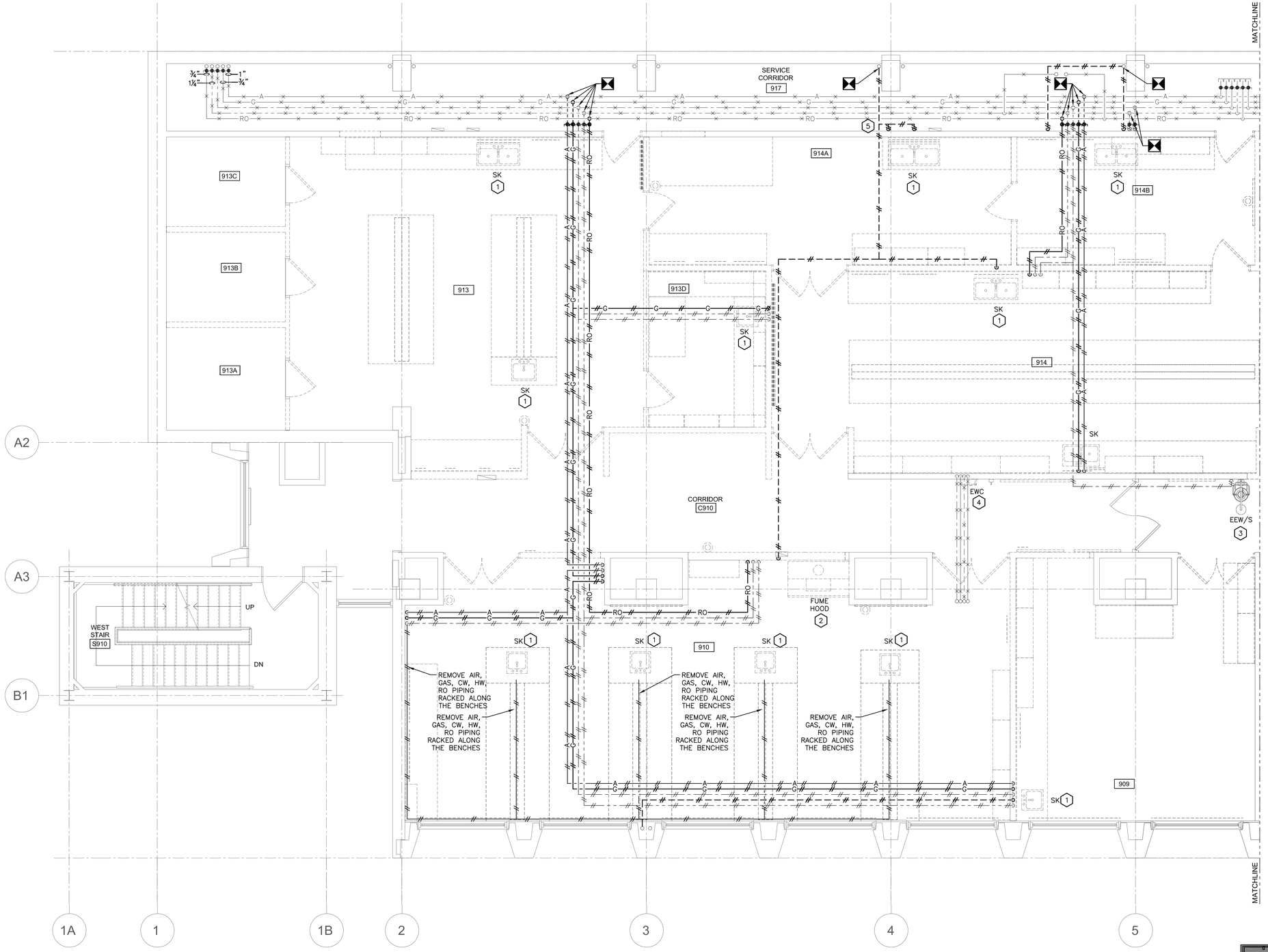
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ENLARGED NINTH FLOOR PLUMBING REMOVALS PLAN - WEST

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

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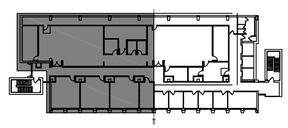
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KEYED NOTES: (#)

1. REMOVE SINK AND ALL ASSOCIATED PIPING AND ACCESSORIES. REMOVE ALL PIPING BACK TO ACTIVE MAINS IN SERVICE CORRIDOR.
2. REMOVE FUME HOOD AND ALL ASSOCIATED ACCESSORIES. REMOVE ALL PIPING BACK TO ACTIVE MAINS IN SERVICE CORRIDOR.
3. REMOVE EMERGENCY EYE WASH/ SHOWER AND ALL ASSOCIATED PIPING BACK TO ACTIVE MAINS IN SERVICE CORRIDOR.
4. REMOVE WATER COOLER AND ASSOCIATED PIPING BACK TO MAIN RISERS. RISERS TO REMAIN.
5. REMOVE PLASTIC TUBING THRU WALL.



KEY PLAN

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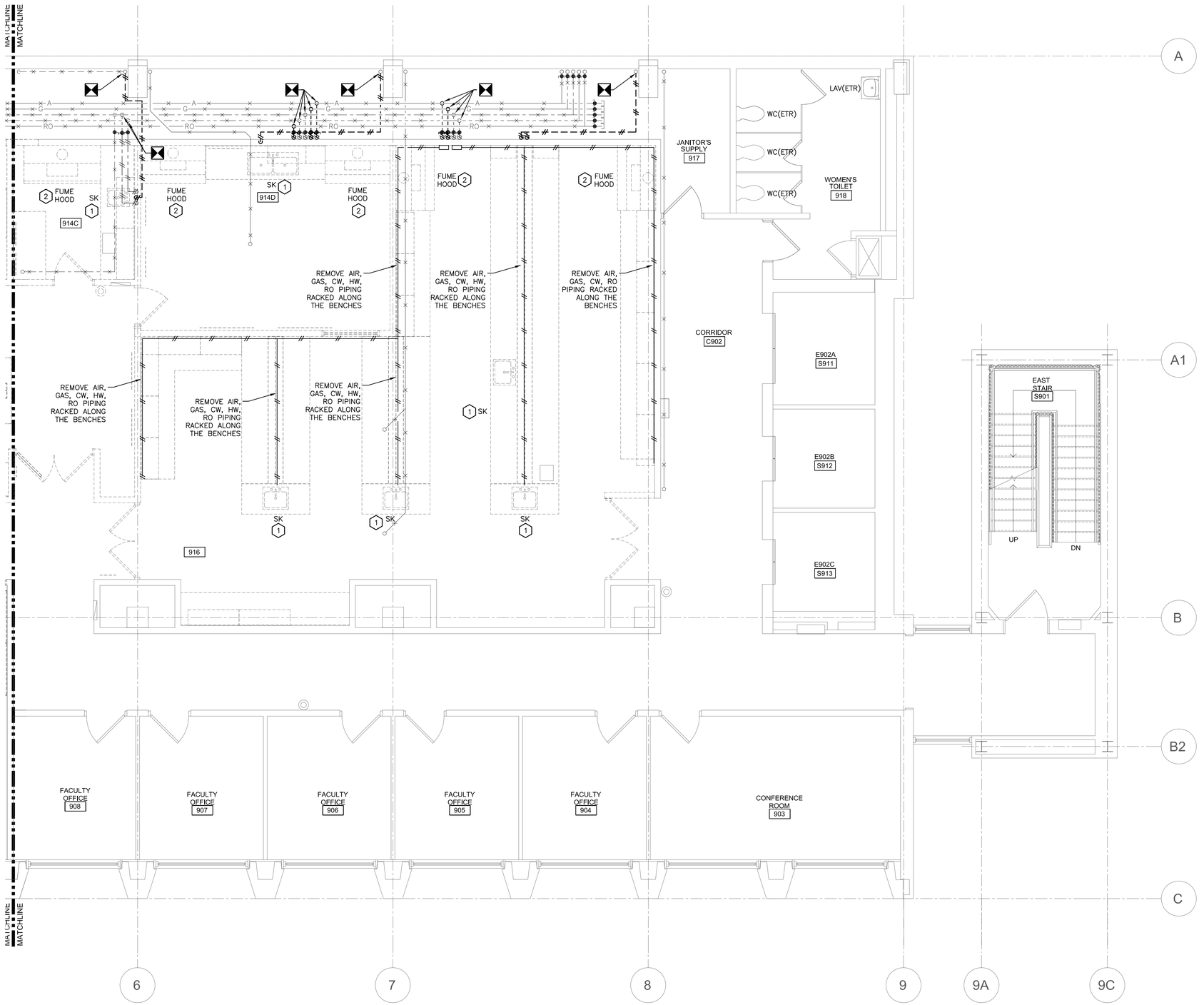
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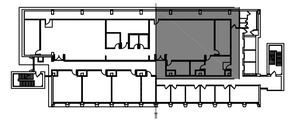


ENLARGED NINTH FLOOR PLUMBING REMOVALS PLAN - EAST

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

1 PD104

N



KEY PLAN

SCALE: NTS

N

DRAWING NOTES:

A. NOT EVERY INDIVIDUAL PIPE BEING REMOVED IS INDICATED ON THESE PLANS. THE CONTRACTOR SHALL FIELD VISIT THE SITE, REVIEW AND VERIFY THE ACTUAL PROJECT CONDITIONS AND ASCERTAIN THE EXACT EXTENT OF THE REMOVAL WORK INVOLVED TO ACHIEVE THE DESIGN INTENT.

B. COMPLY WITH ALL RULES AND REGULATIONS OF GOVERNING BODIES AND AUTHORITIES HAVING JURISDICTION REGARDING REMOVAL, REPLACEMENT AND DISPOSAL OF ANY PROPERTY WITHIN THE PROJECT SITE. ALL MATERIAL SHALL BE TAKEN TO LOCATION AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION. IF NO DIRECTIVE IS GIVEN, ALL SUCH PROPERTY SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.

C. COORDINATE ALL REMOVALS WORK WITH HAZARDOUS MATERIALS ABATEMENT DRAWINGS AND REPORTS.

KEYED NOTES: (#)

1. REMOVE SINK AND ALL ASSOCIATED PIPING AND ACCESSORIES. REMOVE ALL PIPING BACK TO ACTIVE MAINS IN SERVICE CORRIDOR.
2. REMOVE FUME HOOD AND ALL ASSOCIATED ACCESSORIES. REMOVE ALL PIPING BACK TO ACTIVE MAINS IN SERVICE CORRIDOR.
3. REMOVE EMERGENCY EYE WASH/ SHOWER AND ALL ASSOCIATED PIPING BACK TO ACTIVE MAINS IN SERVICE CORRIDOR.

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ENLARGED NINTH FLOOR PLUMBING REMOVALS PLAN - EAST

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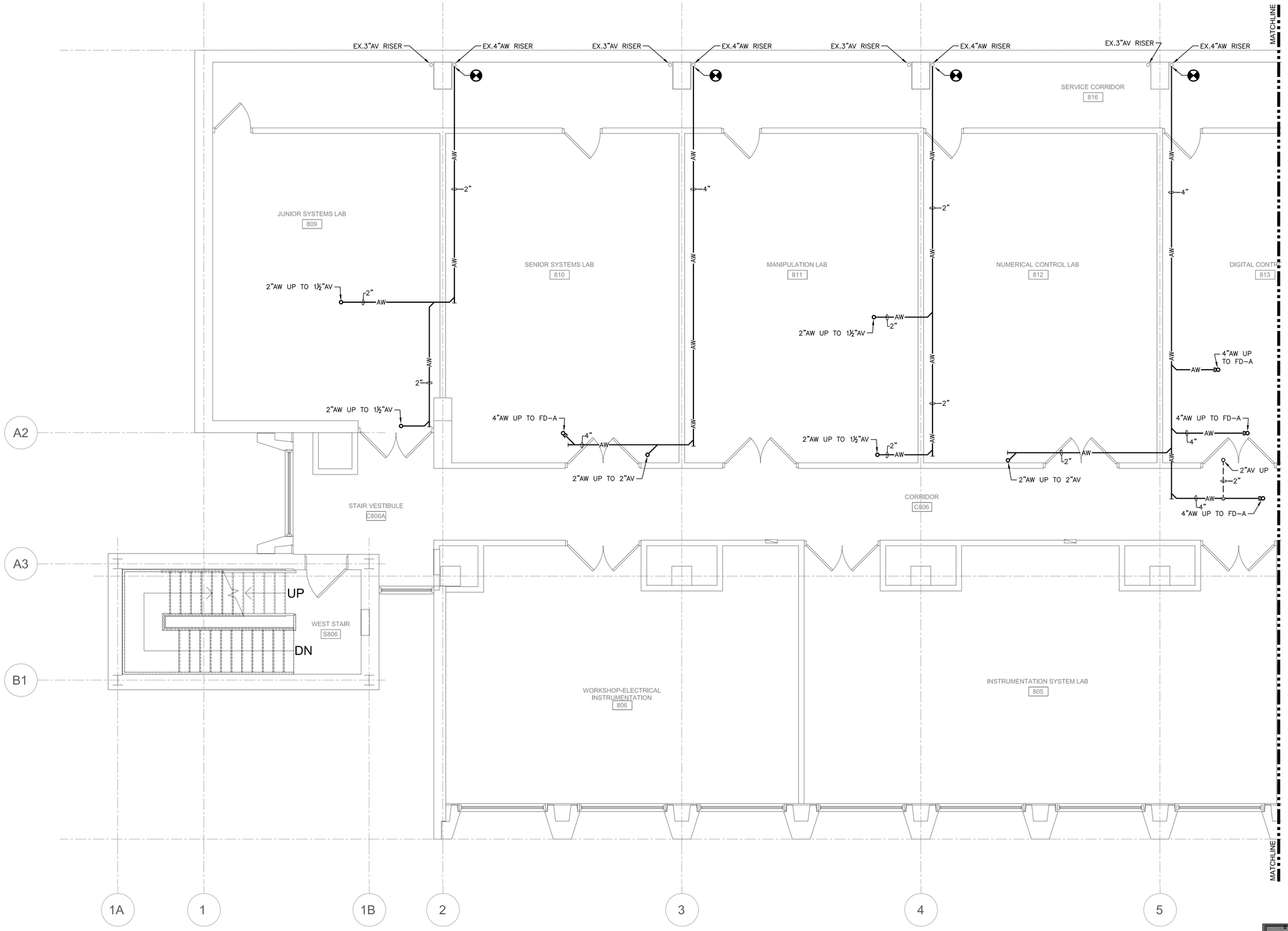
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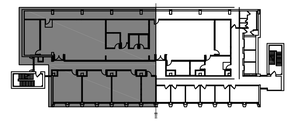


ENLARGED EIGHTH FLOOR PLUMBING PLAN - WEST

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

1 PL101

N



KEY PLAN

SCALE: NTS

N

DRAWING NOTES:

A. VERIFY ALL INVERTS, PIPING ROUTES PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS REQUIRED TO MAKE SYSTEMS OPERATIONAL.

B. PROVIDE ALL CUTTING, PATCHING, AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH OPENINGS TO MATCH ADJACENT WALLS, FLOORS, AND CEILINGS.

C. PROVIDE ALL SLEEVES, CORE DRILLING, WATER, SMOKE AND FIRE SEALING OF PIPING PENETRATIONS THROUGH WALLS AND FLOORS.

D. COORDINATE THE INSTALLATION OF ALL PLUMBING PIPING SLEEVE LOCATIONS INSTALLED THRU OR WITHIN CONCRETE FLOORS OR BLOCK WALLS WITH THE GENERAL CONSTRUCTION TRADE.

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ENLARGED EIGHTH FLOOR
PLUMBING PLAN - WEST

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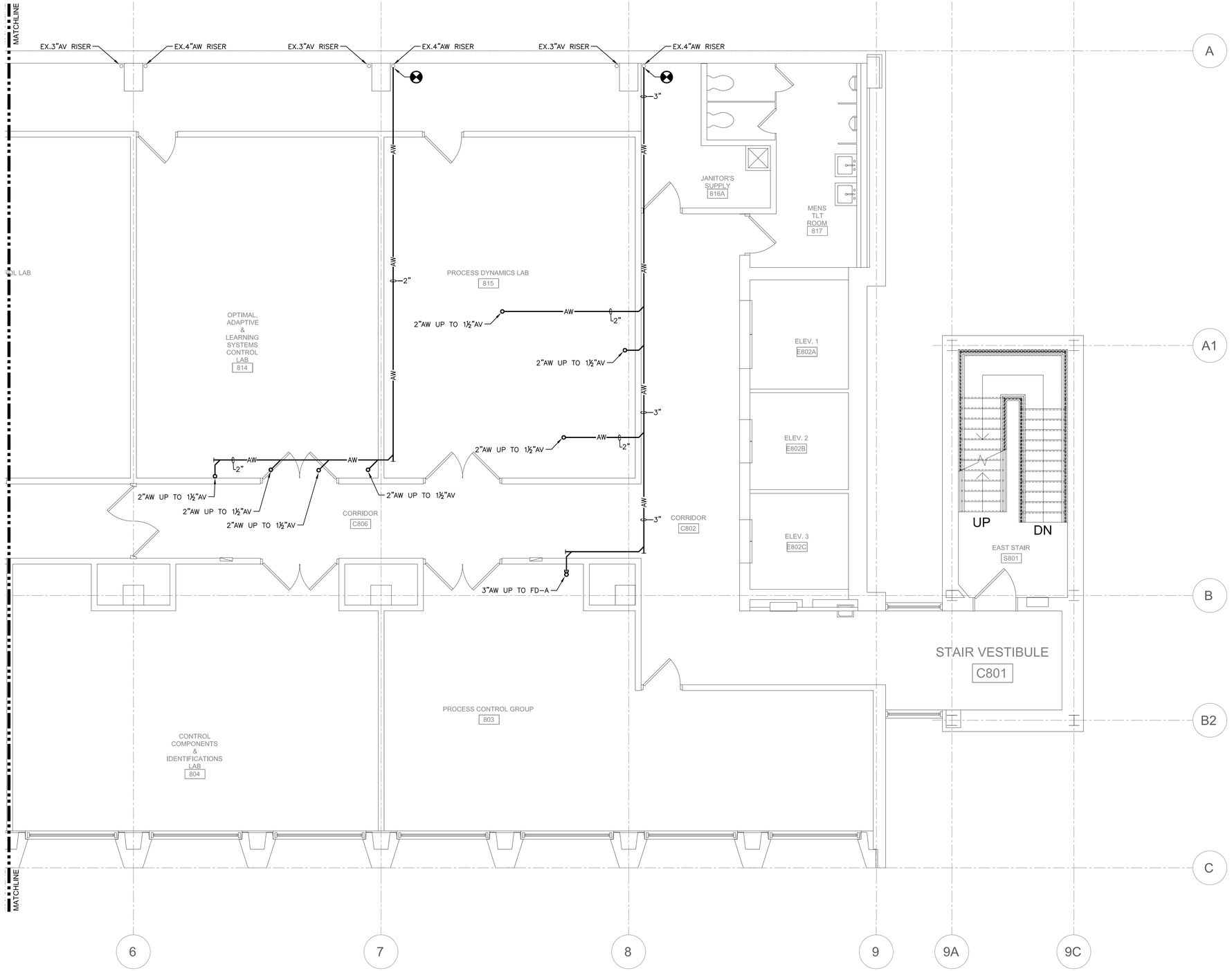
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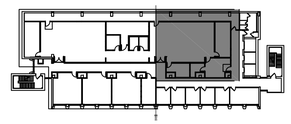
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ENLARGED EIGHTH FLOOR PLUMBING PLAN - EAST

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

1 PL102



KEY PLAN

SCALE: NTS

DRAWING NOTES:

A. VERIFY ALL INVERTS, PIPING ROUTES PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS REQUIRED TO MAKE SYSTEMS OPERATIONAL.

B. PROVIDE ALL CUTTING, PATCHING, AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH OPENINGS TO MATCH ADJACENT WALLS, FLOORS, AND CEILINGS.

C. PROVIDE ALL SLEEVES, CORE DRILLING, WATER, SMOKE AND FIRE SEALING OF PIPING PENETRATIONS THROUGH WALLS AND FLOORS.

D. COORDINATE THE INSTALLATION OF ALL PLUMBING PIPING SLEEVE LOCATIONS INSTALLED THRU OR WITHIN CONCRETE FLOORS OR BLOCK WALLS WITH THE GENERAL CONSTRUCTION TRADE.

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ENLARGED EIGHTH FLOOR PLUMBING PLAN - EAST

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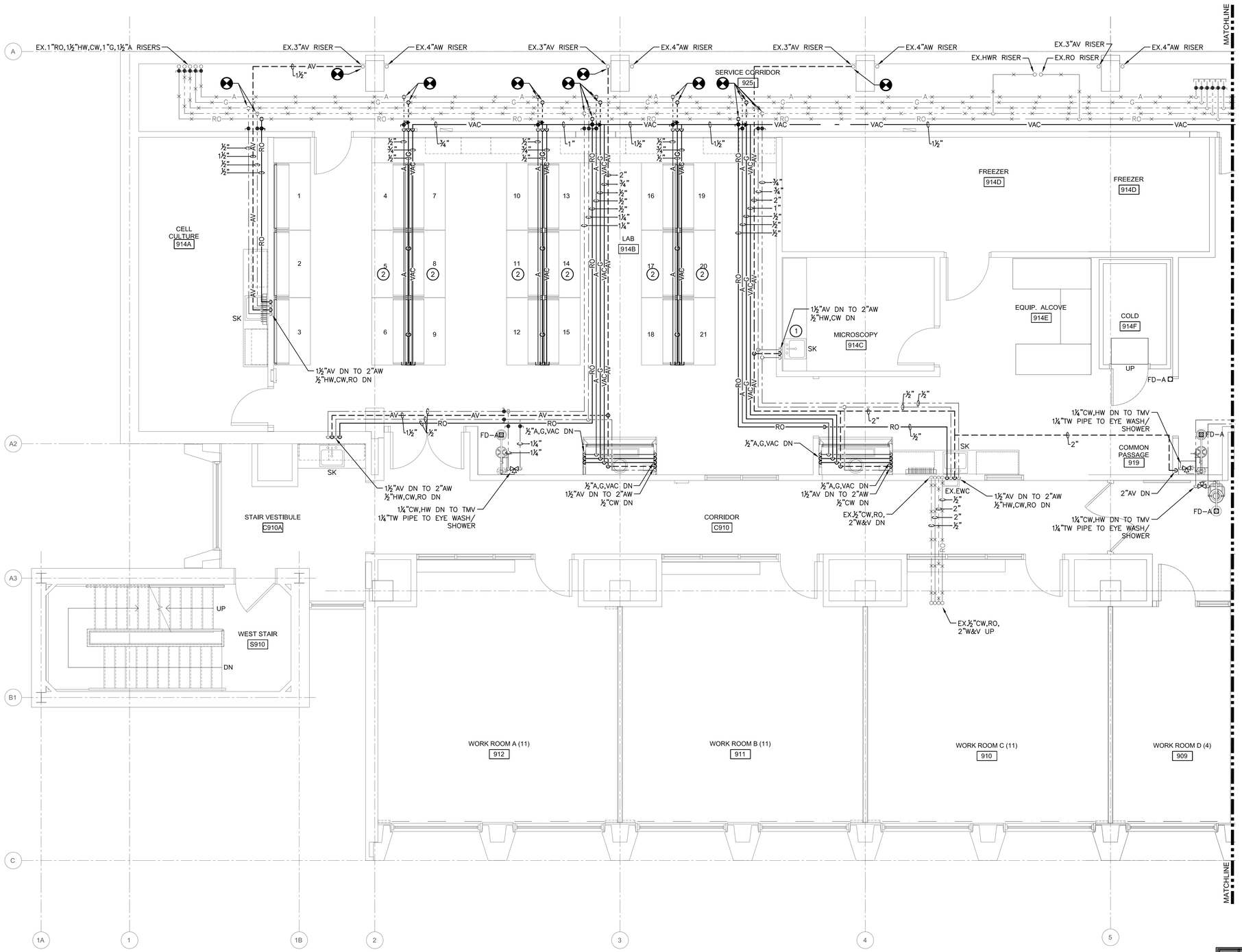
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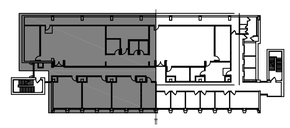
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ENLARGED NINTH FLOOR PLUMBING PLAN - WEST

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

1 PL103



KEY PLAN

SCALE: NTS

DRAWING NOTES:

A. VERIFY ALL INVERTS, PIPING ROUTES PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS REQUIRED TO MAKE SYSTEMS OPERATIONAL.

B. PROVIDE ALL CUTTING, PATCHING, AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH OPENINGS TO MATCH ADJACENT WALLS, FLOORS, AND CEILINGS.

C. PROVIDE ALL SLEEVES, CORE DRILLING, WATER, SMOKE AND FIRE SEALING OF PIPING PENETRATIONS THROUGH WALLS AND FLOORS.

D. COORDINATE THE INSTALLATION OF ALL PLUMBING PIPING SLEEVE LOCATIONS INSTALLED THRU OR WITHIN CONCRETE FLOORS OR BLOCK WALLS WITH THE GENERAL CONSTRUCTION TRADE.

KEYED NOTES: (#)

1. PROVIDE PLUMBING CONNECTIONS FOR WATER TREATMENT CARTRIDGE.
2. CONNECT AIR, GAS AND VACUUM TO TURRETS SUPPLIED WITH FURNITURE. COORDINATE ROUGH-IN REQUIREMENTS WITH FURNITURE MANUFACTURER.

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ENLARGED NINTH FLOOR PLUMBING PLAN - WEST

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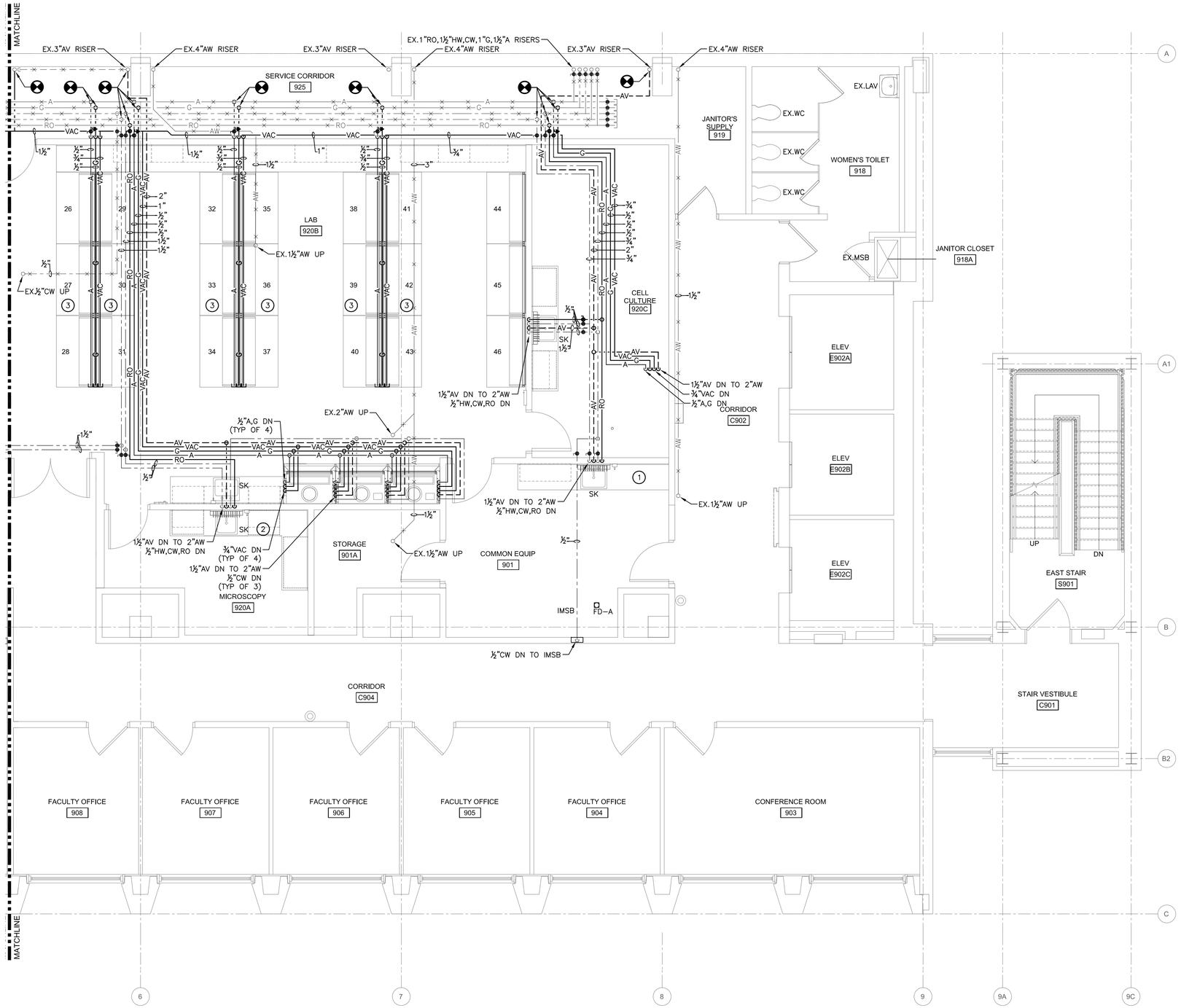
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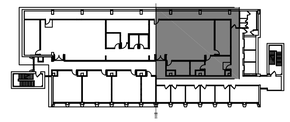
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ENLARGED NINTH FLOOR PLUMBING PLAN - EAST

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

1 / PL104



KEY PLAN

SCALE: NTS

DRAWING NOTES:

A. VERIFY ALL INVERTS, PIPING ROUTES PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS REQUIRED TO MAKE SYSTEMS OPERATIONAL.

B. PROVIDE ALL CUTTING, PATCHING, AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH OPENINGS TO MATCH ADJACENT WALLS, FLOORS, AND CEILINGS.

C. PROVIDE ALL SLEEVES, CORE DRILLING, WATER, SMOKE AND FIRE SEALING OF PIPING PENETRATIONS THROUGH WALLS AND FLOORS.

D. COORDINATE THE INSTALLATION OF ALL PLUMBING PIPING SLEEVE LOCATIONS INSTALLED THRU OR WITHIN CONCRETE FLOORS OR BLOCK WALLS WITH THE GENERAL CONSTRUCTION TRADE.

KEYED NOTES: (#)

1. PROVIDE PLUMBING CONNECTIONS FOR MICROPURE WATER SYSTEM.
2. PROVIDE PLUMBING CONNECTIONS FOR WATER TREATMENT CARTRIDGE.
3. CONNECT AIR, GAS AND VACUUM TO TURRETS SUPPLIED WITH FURNITURE. COORDINATE ROUGH-IN REQUIREMENTS WITH FURNITURE MANUFACTURER.

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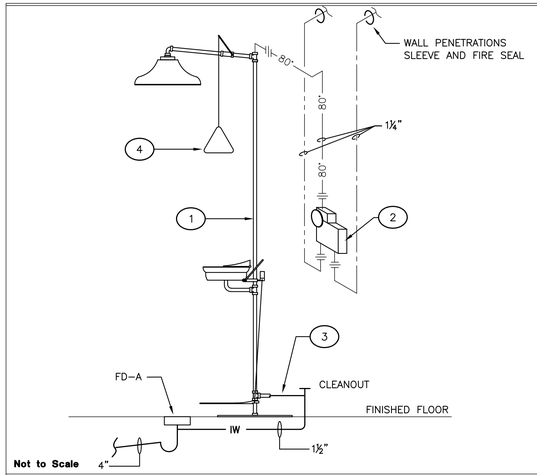
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Not to Scale

Mark	Description
1.	EMERGENCY EYEWASH SHOWER. ANCHOR TO FLOOR AND PROVIDE ADDITIONAL RIGID SUPPORT FROM WALL.
2.	THERMOSTATIC MIXING VALVE WITH TEMPERATURE GAUGE. INSTALL AT 5'-0" AFF. SUPPORT FROM WALL STRUCTURE.
3.	CONNECT 1¼" DRAIN TO 1½" INDIRECT WASTE DRAIN.
4.	HANDLE SHALL BE NO HIGHER THAN 4' IN OFF POSITION.

NOTE: PROVIDE SIGN SECURED TO COLD AND HOT WATER SHUT-OFF VALVES TO READ: "EMERGENCY EYE-WASH WATER SUPPLY - DO NOT SHUT OFF".

EMERGENCY EYEWASH / SHOWER PIPING SCHEMATIC

PLUMBING FIXTURE SCHEDULE

FIXTURE #	SERVICE CONNECTION					MANUFACTURER AND EQUIPMENT	FLOW RATE	MODEL NO.	REMARKS
SINKS	S	W	V	CW	HW				
SK-1	NA	1½"	1½"	½"	½"	ELKAY: SINK CHICAGO FAUCET: FAUCET	1.5GPM	LRAD252165 1100-GN8AE35-317AB	STAINLESS STEEL DROP IN WITH GOOSENECK SPOUT AND WRIST BLADE HANDLES.

NOTES:

A. COORDINATE INSTALLATION OF PLUMBING FIXTURES WITH THE GENERAL CONSTRUCTION DIVISION. PROVIDE SINK TEMPLATE FOR EACH SIZE SINK TO THE GENERAL CONSTRUCTION DIVISION.

B. THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES SHALL BE AS PER THE ARCHITECTURAL DRAWINGS.

C. ALL SINKS AND LAVATORIES THAT ARE HANDICAPPED ACCESSIBLE SHALL BE PROVIDED WITH THERMAL AND IMPACT INSULATION/SHIELDING KITS ON SUPPLIES, TRAPS, TAILPIECES AND WASTE OUTLETS.

D. ALL EXPOSED PIPING SHALL BE CHROME PLATED.

E. ALL QUICK OPENING VALVES INCLUDING FLUSH VALVES SHALL HAVE SHOCK ARRESTERS. PROVIDE WITH ACCESS PANEL WHERE INSTALLED IN CONCEALED SPACES.

PLUMBING SYMBOL LIST

SYMBOL	DESCRIPTION	ABBREVIATION
□	SINK (NUMBER INDICATES TYPE)	SK
⊔	ICE MAKER SUPPLY BOX	IMSB
—|	CLEAN OUT	CO
	BALL VALVE	BV
—o	PIPE UP	UP
—⊃	PIPE DOWN	DN
—x—x—x—	EXISTING PIPING	XTG
—//—//—//—	EXISTING WORK TO BE REMOVED	---
———	SOIL WASTE OR SANITARY PIPING	W OR S
– – – – – –	SANITARY VENT PIPING	V
——-———	DOMESTIC COLD WATER PIPING	CW
—— - - ———	DOMESTIC HOT WATER PIPING	HW
—— - - - ———	DOMESTIC HOT WATER RECIRCULATING PIPING	HWR
——AW———	ACID WASTE PIPING	AW
——AV———	ACID VENT PIPING	AV
——G———	GAS PIPING	G
——N———	NITROGEN PIPING	N
——VAC———	VACUUM PIPING	VAC
——A———	AIR PIPING	A
——DW———	DE-IONIZED WATER PIPING	DW
ETR	EXISTING TO REMAIN	ETR
EX.	EXISTING	EX.
AAV	AIR ADMITTANCE VALVE	AAV
	POINT OF CONNECTION	---
	POINT OF DISCONNECTION	---

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DETAILS, SCHEDULES & SYMBOL LIST

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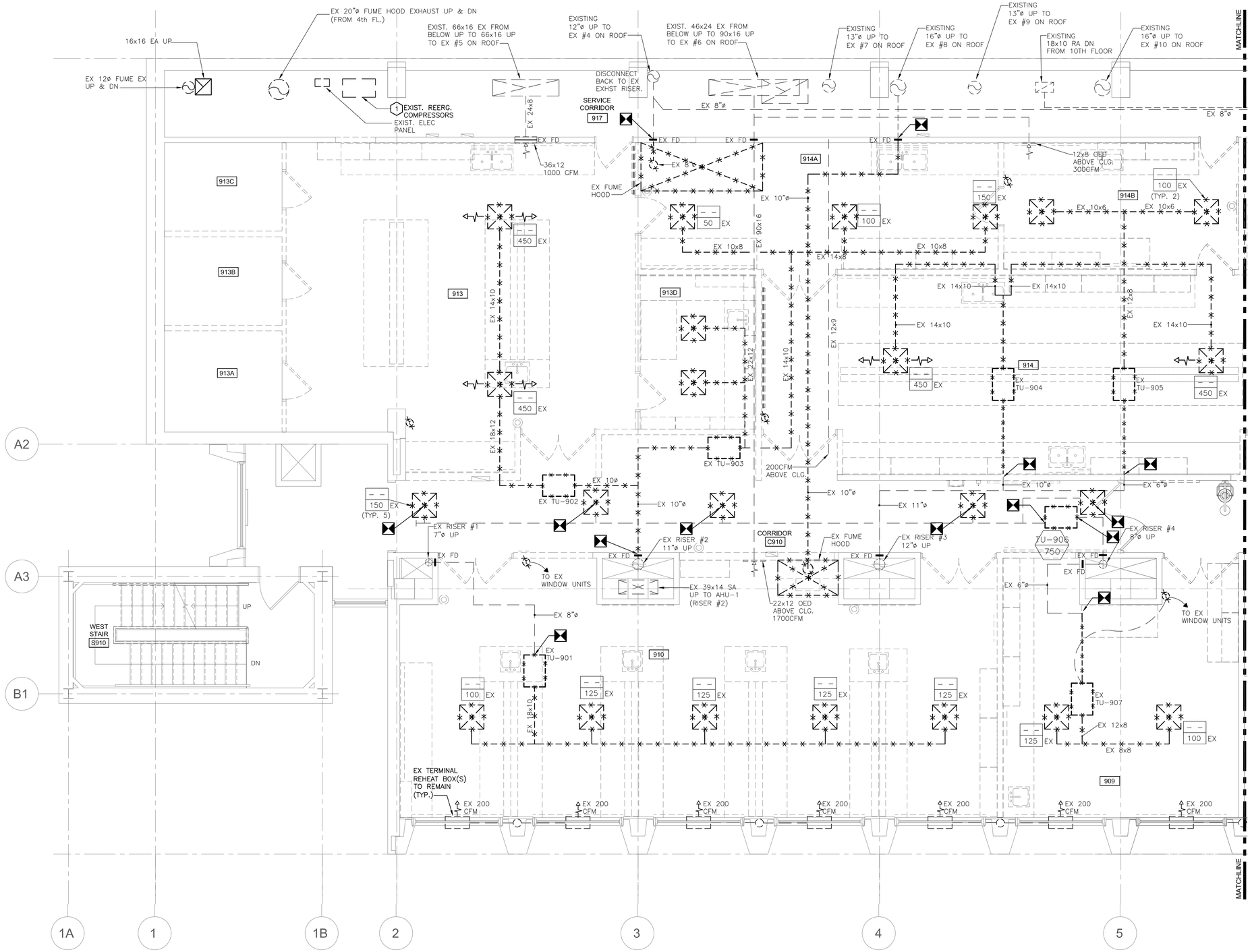
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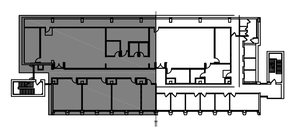
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ENLARGED NINTH FLOOR HVAC REMOVALS PLAN - WEST

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

1 MD101



KEY PLAN

SCALE: NTS

DRAWING NOTES:

A. DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT, DEVICES AND CONTROLS AS REQUIRED BACK TO THE POINT OF CONNECTION INDICATED TO ACCOMPLISH WORK SHOWN ON PLANS. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO:

1. EXISITNG VAV BOXES
2. EXISTING FAN COIL UNITS

B. CONDUCT ALL REMOVAL WORK TO MINIMIZE INTERFERENCE WITH ADJACENT AND OCCUPIED BUILDING AREAS. COORDINATE ALL WORK WITH OWNER'S REPRESENTATIVE.

C. PROVIDE ALL CUTTING, PATCHING AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH AND SEAL OPENINGS TO MATCH ADJACENT WALLS, FLOORS, CEILINGS, ETC., UNLESS OTHERWISE INDICATED.

D. FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND EXISTING CONDITIONS (PIPING, DUCTWORK, STRUCTURAL ELEMENTS, ETC.) PRIOR TO STARTING WORK.

E. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT AND SYSTEMS LOCATED OUTSIDE THE WORK AREA AND INTERRUPTED BY THE REMOVALS WORK. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, DUCTWORK, ACCESSORIES, CONTROLS AND CONTROLS CIRCUITRY ETC. REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT AND SYSTEMS.

F. SCHEDULE SYSTEMS SHUTDOWNS WITH OWNER. PROVIDE A MINIMUM OF 72 HOUR NOTICE. SYSTEM SHUTDOWNS SHALL NOT INTERFERE WITH BUILDING OPERATIONS. PROVIDE TEMPORARY SYSTEMS DURING SHUTDOWNS AS REQUIRED BY OWNER. MAINTAIN EXISTING SYSTEMS OPERATIONAL PER THE OWNER'S REQUIREMENTS.

G. EXISTING EQUIPMENT LOCATIONS, DUCT SIZES AND PIPE SIZES SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE WORK. NOT ALL EXISTING HVAC EQUIPMENT, DUCTWORK AND PIPING IN THE WORK AREA HAS BEEN SHOWN. FIELD VERIFY ACTUAL EXTENT OF REMOVALS WORK AT SITE.

H. CAP OFF ALL DUCT OPENINGS CREATED BY REMOVALS WORK AIRTIGHT. TEMPORARILY SEAL OFF OPENINGS IN DUCTWORK TO BE REUSED FROM CONSTRUCTION DEBRIS.

I. FLUSH ALL EXISTING PIPING TO REMAIN WITHIN THE WORK AREA AND WHERE INDICATED.

J. COORDINATE ALL REMOVAL WORK WITH HAZARDOUS MATERIALS ABATEMENT DRAWINGS AND REPORTS.

K. PRIOR TO STARTING WORK, MEASURE ALL EXISTING AIR INLET AND OUTLET AIR FLOWS WITHIN THE WORK AREA. IN ADDITION, VERIFY OPERATING CONDITIONS OF EXISTING AIR HANDLING UNITS AHU-1, AHU-2, AHU-3 & AHU-4 AND EXISTING EXHAUST FANS EX-8, EX-15, EX-16 & EX-17. DOCUMENT EXISTING OPERATING CONDITIONS PRIOR TO REMOVAL (AIRFLOW, STATIC PRESSURE, VOLTAGE, OPERATING AMPS, ETC.) AND SUBMIT WRITTEN REPORT OF MEASUREMENTS TO ENGINEER FOR REVIEW AND COMMENT.

KEYED NOTES:

1. REMOVE EXISTING COLD/HOT/WARM REFRIGERATION EQUIPMENT. REMOVE REFRIGERANT PIPING ASSOCIATED WITH THE UNIT INSTALL SCHRADER PORT TO FINALIZE REFRIGERANT EVACUATION TO ALLOW REMOVAL OF PIPING

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ENLARGED NINTH FLOOR HVAC REMOVALS PLAN - WEST

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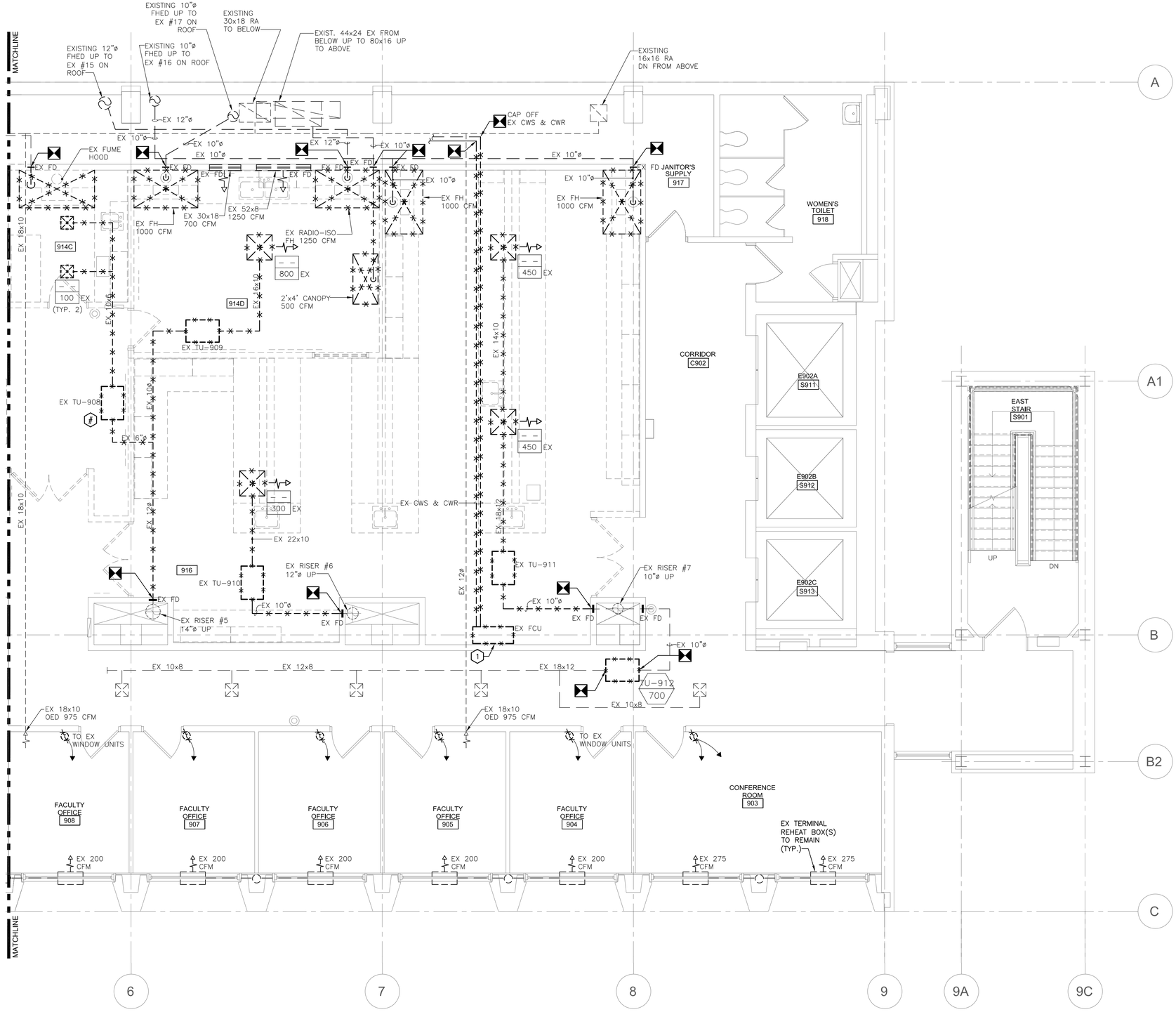
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9-MD101
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ENLARGED NINTH FLOOR HVAC REMOVALS PLAN - EAST

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

1 MD102

N

DRAWING NOTES:

A. DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT, DEVICES AND CONTROLS AS REQUIRED BACK TO THE POINT OF CONNECTION INDICATED TO ACCOMPLISH WORK SHOWN ON PLANS. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO:

1. EXISITNG VAV BOXES
2. EXISTING FAN COIL UNITS

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C. PROVIDE ALL CUTTING, PATCHING AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH AND SEAL OPENINGS TO MATCH ADJACENT WALLS, FLOORS, CEILINGS, ETC., UNLESS OTHERWISE INDICATED.

D. FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND EXISTING CONDITIONS (PIPING, DUCTWORK, STRUCTURAL ELEMENTS, ETC.) PRIOR TO STARTING WORK.

E. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT AND SYSTEMS LOCATED OUTSIDE THE WORK AREA AND INTERRUPTED BY THE REMOVALS WORK. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, DUCTWORK, ACCESSORIES, CONTROLS AND CONTROLS CIRCUITRY ETC. REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT AND SYSTEMS.

F. SCHEDULE SYSTEMS SHUTDOWNS WITH OWNER. PROVIDE A MINIMUM OF 72 HOUR NOTICE. SYSTEM SHUTDOWNS SHALL NOT INTERFERE WITH BUILDING OPERATIONS. PROVIDE TEMPORARY SYSTEMS DURING SHUTDOWNS AS REQUIRED BY OWNER. MAINTAIN EXISTING SYSTEMS OPERATIONAL PER THE OWNER'S REQUIREMENTS.

G. EXISTING EQUIPMENT LOCATIONS, DUCT SIZES AND PIPE SIZES SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE WORK. NOT ALL EXISTING HVAC EQUIPMENT, DUCTWORK AND PIPING IN THE WORK AREA HAS BEEN SHOWN. FIELD VERIFY ACTUAL EXTENT OF REMOVALS WORK AT SITE.

H. CAP OFF ALL DUCT OPENINGS CREATED BY REMOVALS WORK AIRTIGHT. TEMPORARILY SEAL OFF OPENINGS IN DUCTWORK TO BE REUSED FROM CONSTRUCTION DEBRIS.

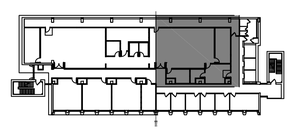
I. FLUSH ALL EXISTING PIPING TO REMAIN WITHIN THE WORK AREA AND WHERE INDICATED.

J. COORDINATE ALL REMOVAL WORK WITH HAZARDOUS MATERIALS ABATEMENT DRAWINGS AND REPORTS.

K. PRIOR TO STARTING WORK, MEASURE ALL EXISTING AIR INLET AND OUTLET AIR FLOWS WITHIN THE WORK AREA. IN ADDITION, VERIFY OPERATING CONDITIONS OF EXISTING AIR HANDLING UNITS AHU-1, AHU-2, AHU-3 & AHU-4 AND EXISTING EXHAUST FANS EX-8, EX-15, EX-16 & EX-17. DOCUMENT EXISTING OPERATING CONDITIONS PRIOR TO REMOVAL (AIRFLOW, STATIC PRESSURE, VOLTAGE, OPERATING AMPS, ETC.) AND SUBMIT WRITTEN REPORT OF MEASUREMENTS TO ENGINEER FOR REVIEW AND COMMENT.

KEYED NOTES: (#)

1. REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED PIPING (CHWS & R, CONDENSATE), DUCT WORK AND CONTROLS.



KEY PLAN

SCALE: NTS

N

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ENLARGED NINTH FLOOR HVAC REMOVALS PLAN - EAST

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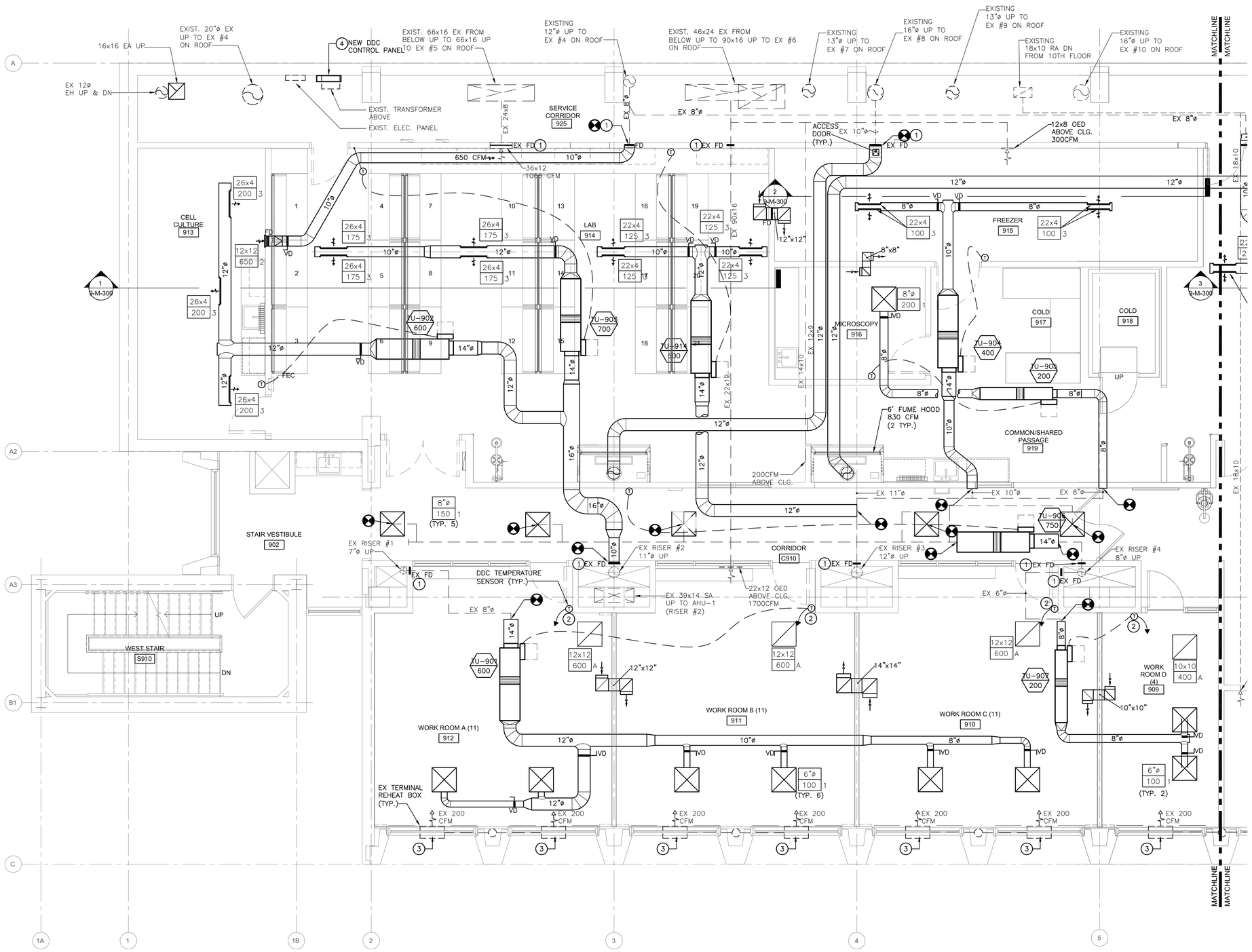
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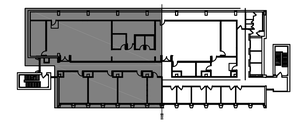


ENLARGED NINTH FLOOR HVAC PLAN - WEST

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

1 MH101

N



KEY PLAN

SCALE: NTS

N

DRAWING NOTES:

A. PROVIDE ALL CUTTING, PATCHING AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH AND SEAL OPENINGS TO MATCH ADJACENT WALLS, FLOORS, CEILINGS, ETC. UNLESS OTHERWISE INDICATED.

B. CONCEAL ALL WORK IN FINISHED AREAS UNLESS OTHERWISE INDICATED OR DIRECTED BY ARCHITECT.

C. PROVIDE ALL CONTROL COMPONENTS, CONTROL WIRING, AND CONNECTIONS TO PROPERLY INTERFACE WITH THE EXISTING SIEMENS DDC TEMPERATURE CONTROL SYSTEM, AND CONTROL AND OPERATE SYSTEMS AS INDICATED. ALL NEW CONTROL COMPONENTS, CONTROL VALVES, THERMOSTATS, SENSORS, ETC. SHALL BE ELECTRIC TYPE. PROVIDE ALL CONTROL WIRING IN APPROVED RACEWAY SYSTEMS; REFER TO DIVISION 26 SPECIFICATIONS.

D. FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND EXISTING CONDITIONS (PIPING, DUCTWORK, STRUCTURAL ELEMENTS, ETC.) PRIOR TO STARTING WORK. CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT, PIPING AND DUCTWORK WITH EXISTING CONDITIONS. PROVIDE FITTINGS, TRANSITIONS, OFFSETS, ELEVATION CHANGES, ETC. TO MINIMIZE CONFLICTS WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.

E. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT AND SYSTEMS LOCATED OUTSIDE THE WORK AREA AND INTERRUPTED BY THE RENOVATION WORK. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, DUCTWORK, ACCESSORIES, ETC. REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT AND SYSTEMS.

F. SCHEDULE SYSTEMS SHUTDOWNS WITH OWNER. PROVIDE A MINIMUM OF 72 HOUR NOTICE. SYSTEM SHUTDOWNS SHALL NOT INTERFERE WITH BUILDING OPERATIONS. PROVIDE TEMPORARY SYSTEMS DURING SHUTDOWNS AS REQUIRED BY OWNER. MAINTAIN EXISTING SYSTEMS OPERATIONAL PER THE OWNER'S REQUIREMENTS.

G. EXISTING EQUIPMENT LOCATIONS, DUCT SIZES AND PIPE SIZES SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE WORK. NOT ALL EXISTING HVAC EQUIPMENT, DUCTWORK AND PIPING IN THE WORK AREA HAVE BEEN SHOWN. FIELD VERIFY ACTUAL EXTENT OF WORK AT SITE.

H. SYSTEMS INDICATED ON DRAWINGS SHALL BE INSTALLED AS SHOWN. ADJUSTMENTS TO LOCATIONS OF VARIOUS ITEMS MAY BE REQUIRED BY FIELD CONDITIONS AND COORDINATION WITH THE WORK OF OTHER TRADES. VERIFY PRIOR TO INSTALLATION.

I. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR DIFFUSER AND REGISTER LOCATIONS WITH RESPECT TO OTHER ELEMENTS.

J. PROVIDE SERVICE CLEARANCE FOR ALL HVAC EQUIPMENT AS RECOMMENDED BY MANUFACTURER.

K. PROVIDE 24"X24" ACCESS DOORS WITH LATCH IN CEILINGS, WALLS AND FLOORS AS REQUIRED TO ACCESS ALL VALVING, VOLUME DAMPERS, FIRE DAMPERS, ETC.

L. INSULATE EXISTING DUCTWORK AND PIPING TO REMAIN.

M. COORDINATE ALL WORK WITH HAZARDOUS MATERIALS ABATEMENT DRAWINGS AND REPORTS.

KEYED NOTES: (#)

1. CLEAN AND LUBRICATE EXISTING FIRE DAMPER AND REPLACE FUSIBLE LINK.
2. DDC TEMPERATURE SENSOR TO CONTROL EXISTING REHEAT BOX (TYPICAL).
3. CLEAN EXISTING TERMINAL REHEAT BOX CABINET AND COILS.
4. PROVIDE NETWORK CONNECTION FROM DDC CONTROL PANEL TO EXISTING DATA RACK.

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RA8# 23019
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ENLARGED NINTH FLOOR HVAC PLAN - WEST

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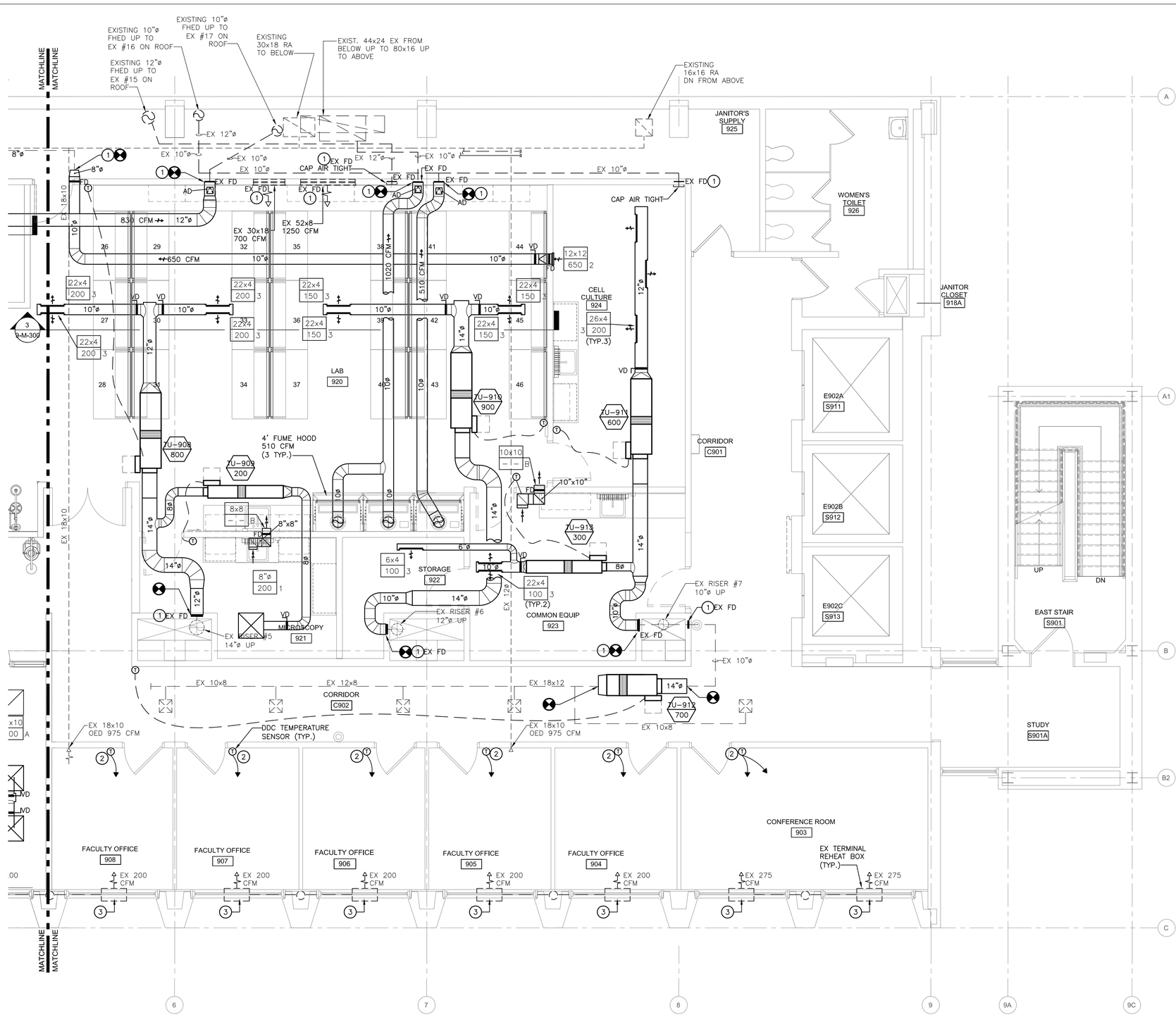
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ENLARGED NINTH FLOOR HVAC PLAN - EAST

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

1 / 9-MH102

N

DRAWING NOTES:

A. PROVIDE ALL CUTTING, PATCHING AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH AND SEAL OPENINGS TO MATCH ADJACENT WALLS, FLOORS, CEILINGS, ETC. UNLESS OTHERWISE INDICATED.

B. CONCEAL ALL WORK IN FINISHED AREAS UNLESS OTHERWISE INDICATED OR DIRECTED BY ARCHITECT.

C. PROVIDE ALL CONTROL COMPONENTS, CONTROL WIRING, AND CONNECTIONS TO PROPERLY INTERFACE WITH THE EXISTING SIEMENS DDC TEMPERATURE CONTROL SYSTEM, AND CONTROL AND OPERATE SYSTEMS AS INDICATED. ALL NEW CONTROL COMPONENTS, CONTROL VALVES, THERMOSTATS, SENSORS, ETC. SHALL BE ELECTRIC TYPE. PROVIDE ALL CONTROL WIRING IN APPROVED RACEWAY SYSTEMS; REFER TO DIVISION 26 SPECIFICATIONS.

D. FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND EXISTING CONDITIONS (PIPING, DUCTWORK, STRUCTURAL ELEMENTS, ETC.) PRIOR TO STARTING WORK, CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT, PIPING AND DUCTWORK WITH EXISTING CONDITIONS. PROVIDE FITTINGS, TRANSITIONS, OFFSETS, ELEVATION CHANGES, ETC. TO MINIMIZE CONFLICTS WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.

E. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT AND SYSTEMS LOCATED OUTSIDE THE WORK AREA AND INTERRUPTED BY THE RENOVATION WORK. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, DUCTWORK, ACCESSORIES, ETC. REQUIRED TO EXTEND AND RECONNECT REMAINING EQUIPMENT AND SYSTEMS.

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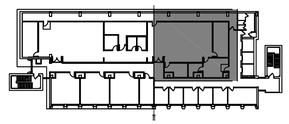
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KEYED NOTES: (#)

1. CLEAN AND LUBRICATE EXISTING FIRE DAMPER AND REPLACE FUSIBLE LINK.
2. DDC TEMPERATURE SENSOR TO CONTROL EXISTING REHEAT BOX (TYPICAL).
3. CLEAN EXISTING TERMINAL REHEAT BOX CABINET AND COILS.



KEY PLAN

SCALE: NTS

N

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ENLARGED NINTH FLOOR HVAC PLAN - EAST

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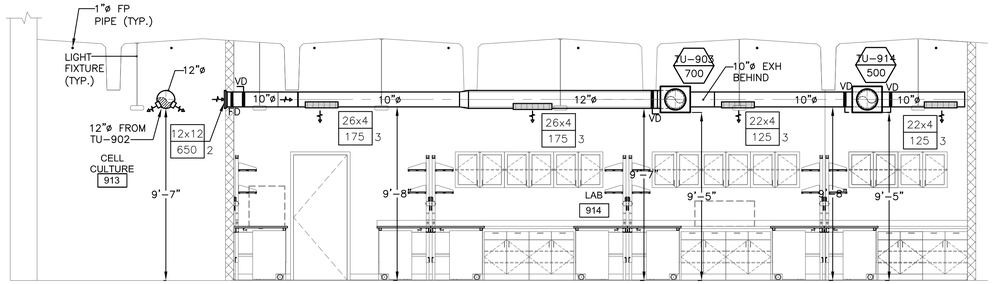
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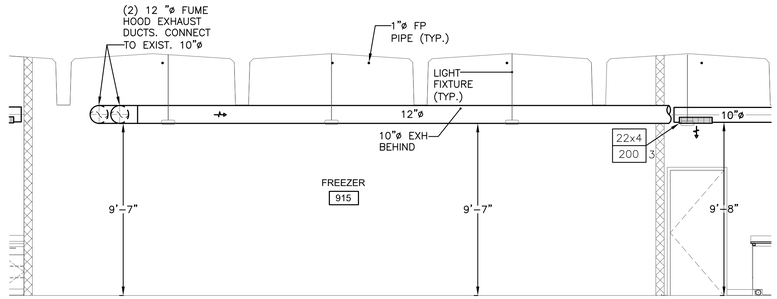
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SECTION THRU ROOMS 913, 914

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

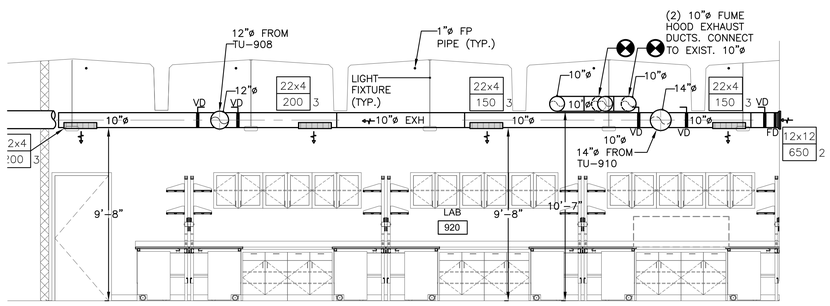
1
9-M-300



SECTION THRU ROOM 915

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

2
9-M-300



SECTION THRU LAB 920

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

3
9-M-300

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SECTIONS

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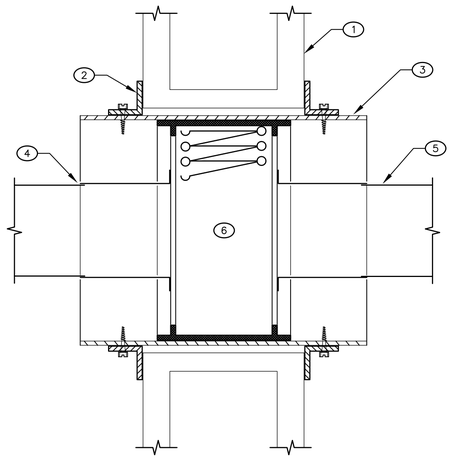
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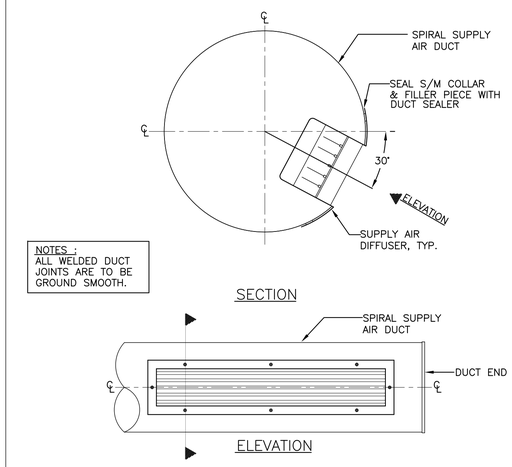


NOT TO SCALE

KEYED NOTES: (#)

1. WALL OR FLOOR.
2. ANGLES CONTINUOUS ALL FOUR SIDES, DO NOT ATTACH OR SECURE TO WALL, SECURE TO SLEEVE ONLY. MINIMUM SIZE 1½" x 1½" 14 GAUGE. ATTACH TO SLEEVE PER MANUFACTURER RECOMMENDATIONS.
3. SLEEVE, MINIMUM 12 GAUGE EXTEND MINIMUM 4" BEYOND WALL OR FLOOR ON EACH SIDE.
4. DUCT CONNECTION PER MANUFACTURERS RECOMMENDATIONS.
5. DUCT, PROVIDE ACCESS DOOR. ACCESS DOOR SHALL BE LABELED "FIRE DAMPER" PER SPECIFICATIONS.
6. FIRE DAMPER, ATTACH TO SLEEVE ONLY, DO NOT SECURE TO WALL. SECURE TO SLEEVE PER MANUFACTURERS RECOMMENDATIONS.
7. INSTALL ALL FIRE DAMPERS PER NFPA 90A, UL 555, SMACNA AND MANUFACTURER RECOMMENDATIONS.
8. SUBMIT DETAILED DRAWING FOR EACH APPLICATION.

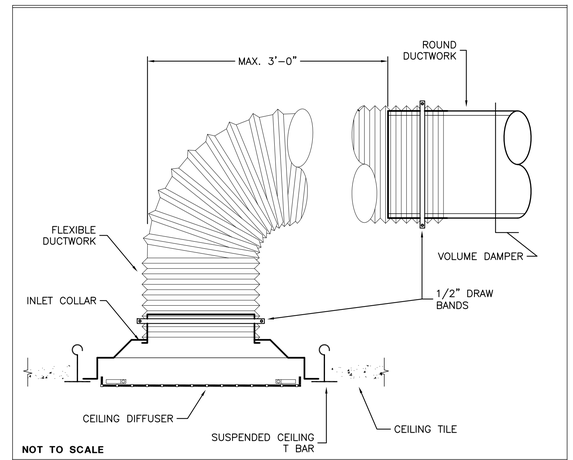
FIRE DAMPER DETAIL



NOTES :
ALL WELDED DUCT JOINTS ARE TO BE GROUND SMOOTH.

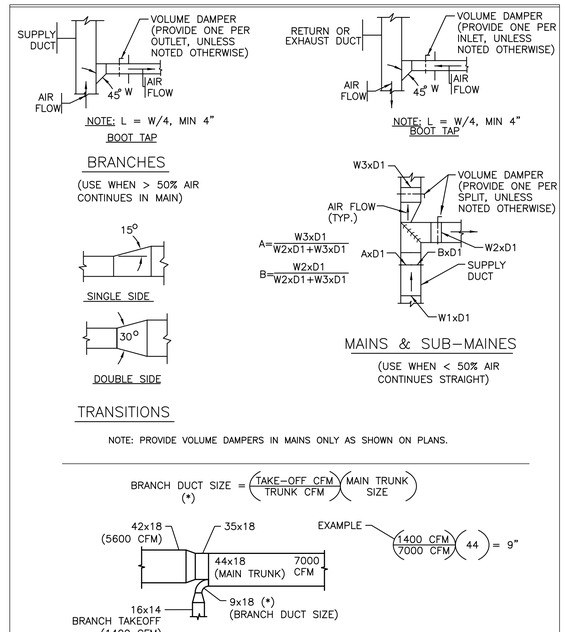
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EXPOSED DUCT DIFFUSER DETAIL



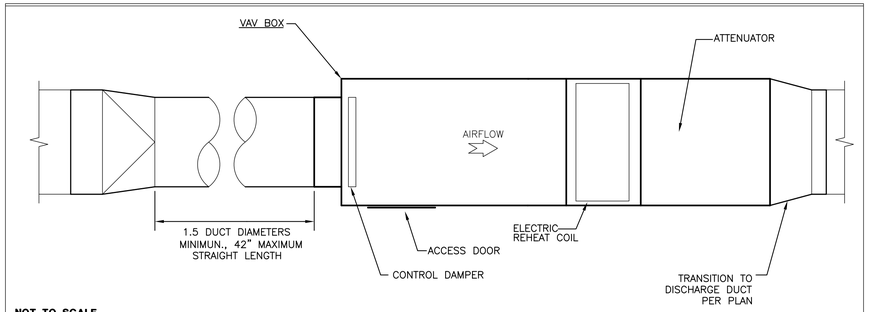
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CEILING DIFFUSER DETAIL (TYP.)



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DUCTWORK CONNECTION DETAIL

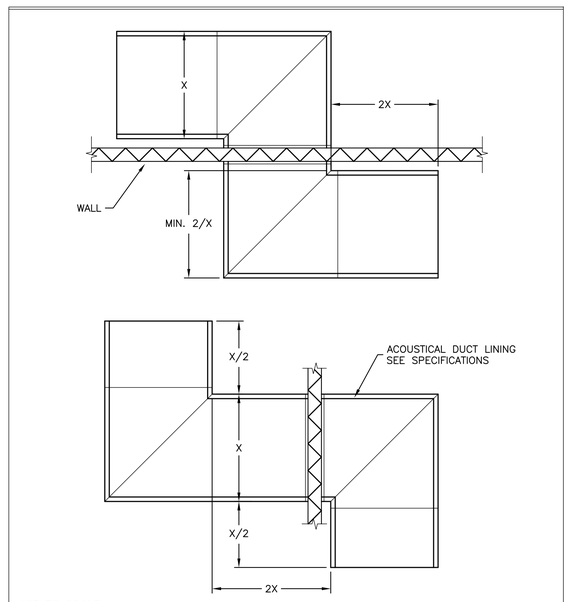


NOT TO SCALE

GENERAL NOTES:

A. SUPPORT BOX INDEPENDENT OF DUCTWORK AND PIPING.
B. SUPPORT BOX USING STEEL ANGLE AND THREADED RODS. ATTACH TO STRUCTURE.

VAV BOX DETAIL



NOT TO SCALE

RETURN AIR TRANSFER BOOT DETAIL

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DETAILS

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VAV BOX SCHEDULE

VAV BOX NO.	ASSOC. RTU	RISER	AREA SERVED	LOCATON	CFM		ELECTRIC COIL								INLET SP ("WC)	APD("WC)	INLET DIA. IN.	RADIATED NC(MAX)	DISCHARGE NC (MAX)	NOTES
					MAX	MIN	COIL CFM	EAT (°F)	LAT (°F)	MBH	KW	VOLTS	PHASE	MCA						
TU-901	EX AC-1	1	WORK RM'S 910,911,912	WORK RM 912	600	400	400	55	85	12960	3.8	277	1	13.7	3.0	2.50	14	30	30	1
TU-902	EX AC-1	2	CELL CULTURE 913	LAB 914	600	600	600	55	75	12960	3.8	277	1	13.7	3.0	2.50	14	30	30	1
TU-903	EX AC-1	2	LAB 914	LAB 914	700	700	700	55	75	15120	4.4	277	1	16.1	3.0	2.50	14	30	30	1
TU-904	EX AC-1	3	FREEZER 915	COLD 917	400	200	200	55	75	4320	1.3	277	1	4.6	3.0	2.50	14	30	30	1
TU-905	EX AC-1	3	MICROSCOPY 916	COMM/SHARED PASS 919	200	200	200	55	75	4320	1.3	277	1	4.6	3.0	2.50	8	30	30	1
TU-906	EX AC-3	4	CORRIDOR C910	CORRIDOR C910	750	750	750	55	75	16200	4.7	277	1	17.0	3.0	2.50	14	30	30	1
TU-907	EX AC-3	4	WORK RM 909	WORK RM 910	200	200	200	55	75	4320	1.3	277	1	4.6	3.0	2.50	8	30	30	1
TU-908	EX AC-3	5	LAB 920	LAB 920	800	800	800	55	75	17280	5.1	277	1	18.2	3.0	2.50	14	30	30	1
TU-909	EX AC-3	5	MICROSCOPY 921	LAB 920	200	200	200	55	75	4320	1.3	277	1	4.6	3.0	2.50	8	30	30	1
TU-910	EX AC-4	6	LAB 920	LAB 920	900	900	900	55	75	19440	5.7	277	1	20.6	3.0	2.50	14	30	30	1
TU-911	EX AC-4	7	CELL CULTURE 924	CELL CULTURE 924	600	400	400	55	75	8640	2.5	277	1	9.1	3.0	2.50	14	30	30	1
TU-912	EX AC-4	7	CORRIDOR 902	CORRIDOR 902	750	750	750	55	75	16200	4.7	277	1	17.0	3.0	2.50	14	30	30	1
TU-913	EX AC-4	7	COMMON EQUIP 923	COMMON EQUIP 923	300	200	200	55	75	4320	1.3	277	1	4.6	3.0	2.50	8	30	30	1
TU-914	EX AC-4	3	LAB 914	LAB 914	500	500	500	55	75	10800	3.2	277	1	11.5	3.0	2.50	14	30	30	1

GENERAL NOTES:
A. DISCHARGE NC NOT TO EXCEED 30 AT INLET STATIC PRESSURE OF 3.0"WG.
B. ELECTRIC COIL: PROVIDE PROPORTIONAL SCR OUTPUT CONTROL AND DOOR INTERLOCKING DISCONNECT.
C. DESIGN BASIS: PRICE SDV

NOTES:
1. PROVIDE 3' SOUND ATTENUATOR ON VAV OUTLET

REGISTER AND DIFFUSER SCHEDULE

TYPE	DESCRIPTION	CONSTRUCTION	FEATURES	BASIS OF DESIGN	NOTES
1	12"x12" OR 24"x24" (AS SHOWN) MULTI-CORE FACE DIFFUSER SUPPLY AIR	STEEL FLUSH STAMPED MULTI-CORE	4-WAY ADJUSTABLE PATTERN DAMPER OPERABLE FROM FACE	TITUS TMSA	1
2	SUPPLY AIR REGISTER	STEEL DOUBLE DEFLECTED ADJUSTABLE BLADES, FRONT SPACED 3/4" ON CENTER.	BLADES SHALL HAVE STEEL FRICTION PIVOT ENDS. DAMPER OPERABLE FROM FACE, FRONT BLADES PARALLEL TO HORIZONTAL.	TITUS 300 RL	1
3	SUPPLY AIR REGISTER	ROUND DUCT DIFFUSER	BLADES SHALL HAVE STEEL FRICTION PIVOT ENDS. DAMPER OPERABLE FROM FACE, FRONT BLADES PARALLEL TO HORIZONTAL.	TITUS S300 FL	1
					1
A	12"x12" OR 24"x24" (AS SHOWN) PERFORATED FACE RETURN	STEEL FLUSH PERFORATED FACE WITH 3/16" HOLES ON 1/4" STAGGERED CENTERS	UN-LATCHABLE FACE WITHOUT DAMPER OR PATTERN CONTROL FOR LAY-IN CEILING	TITUS PAR	1
B	35° DEFLECTION RETURN, EXHAUST OR MAKE-UP AIR GRILLE	STEEL FIXED BLADES PARALLEL TO LENGTH SPACED AT 1/2" ON CENTER	BLADES SHALL BE FIXED BY MULLIONS BEHIND THE GRILLE AND FIXED TO GRILLE BY WELDING, PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE	TITUS 355 RL	1

NOTES:
1. PROVIDE BAKED ENAMEL FINISH WITH COLOR AS SELECTED BY ARCHITECT.

GENERAL NOTES:
A. PROVIDE FRAMES FOR GYPSUM BOARD CEILING AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.
B. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE. SELECT DIFFUSER, REGISTER OR GRILLE ACCORDINGLY.
C. PROVIDE SIZE AND CONFIGURATION FOR 25 NC MAXIMUM.

DUCT CONSTRUCTION SCHEDULE

SERVICE	MATERIAL	PRESSURE CLASS	NOTES
SUPPLY AIR (CV)	GALVANIZED STEEL	2"	1
SUPPLY AIR (VAV)	GALVANIZED STEEL	10"	1, 2
OUTSIDE AIR	GALVANIZED STEEL	2"	1
RETURN AIR	GALVANIZED STEEL	2"	1
EXHAUST AIR	GALVANIZED STEEL	2"	1
FUME HOOD EXHAUST	STAINLESS STEEL	4"	3

NOTES:
1. ALL DUCT TO BE SEALED TO CLASS A WITH A MAX. LEAKAGE CLASS 12.
2. 4" PRESSURE CLASS UPSTREAM OF VAV BOXES. 2" PRESSURE CLASS DOWNSTREAM OF VAV BOXES.
3. ALL JOINTS WELDED WATERTIGHT CONSTRUCTION.

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SCHEDULES

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HVAC ABBREVIATIONS LIST

AD	ACCESS DOOR
AAD	AUTOMATIC AIR DAMPER
AHU	AIR HANDLING UNIT
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
EAT	ENTERING AIR TEMPERATURE
EA	EXHAUST AIR
EF	EXHAUST FAN
EX	EXISTING
F	FAHRENHEIT
FD	FIRE DAMPER
FDC	FLEXIBLE DUCT CONNECTOR
FH	FUME HOOD
LAT	LEAVING AIR TEMPERATURE
MAX.	MAXIMUM
MIN.	MINIMUM
RA	RETURN AIR
SA	SUPPLY AIR
TYP.	TYPICAL
TU	TERMINAL UNIT

HVAC SYMBOL LIST

VD	MANUAL VOLUME DAMPER
T	THERMOSTAT, SENSOR
	POINT OF CONNECTION BETWEEN EXISTING WORK TO REMAIN & NEW WORK.
	POINT BETWEEN EXISTING WORK TO REMAIN & EXISTING WORK TO BE REMOVED
	DUCTWORK
	EXISTING DUCTWORK TO REMAIN
	EXISTING DUCTWORK TO BE REMOVED
	EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE REMOVED
20x12	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN
	DUCT SECTION – SUPPLY
	DUCT SECTION – RETURN, EXHAUST OR OUTSIDE AIR
R	CHANGE OF ELEVATION IN DUCT RISE (R) DROP (D)
	SUPPLY DUCT DOWN
	RETURN, EXHAUST OR OUTSIDE AIR DUCT DOWN
	SUPPLY DUCT UP
	RETURN, EXHAUST OR OUTSIDE AIR DUCT UP
	TRANSITIONS: GIVE SIZES NOTE F.O.T. FLAT ON TOP OR F.O.B FLAT ON BOTTOM IF APPLICABLE
S R	STANDARD BRANCH FOR SUPPLY AND RETURN (NO SPLITTER)
	MITERED ELBOW WITH TURNING VANES
	RADIUSED ELBOW
NECK CFM	A(TYPE) RETURN/EXHAUST – GRILLE/REGISTER IDENTIFICATION
NECK CFM	1(TYPE) SUPPLY DIFFUSER/ IDENTIFICATION
VAV# CFM	VAV BOX IDENTIFICATION
	SUPPLY DIFFUSER, CEILING, SQUARE(TYPE AS SPECIFIED)
	RETURN/EXHAUST GRILLE/REGISTER CEILING, SQUARE(TYPE AS SPECIFIED)
	ACCESS DOOR

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SYMBOLS & ABBREVIATIONS

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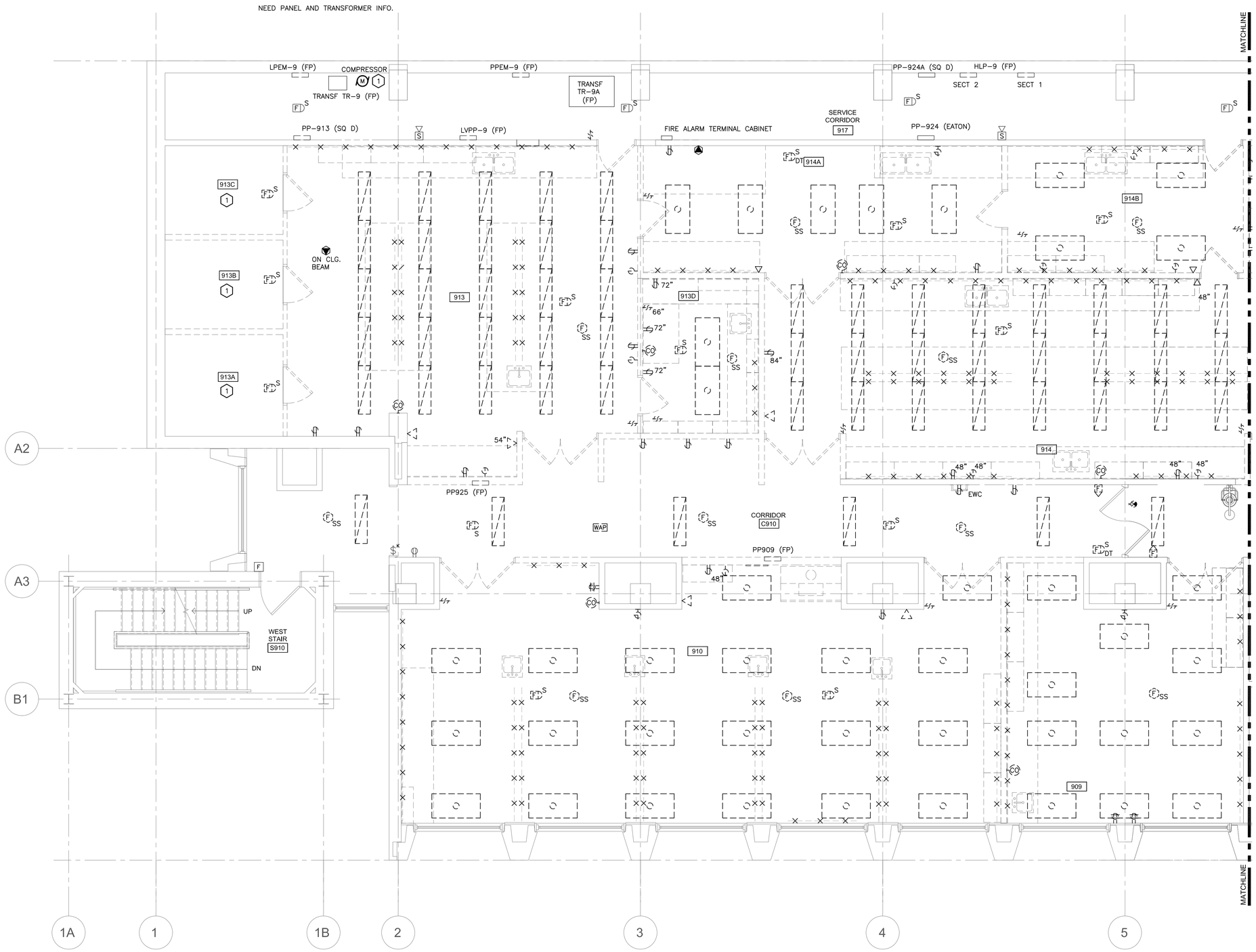
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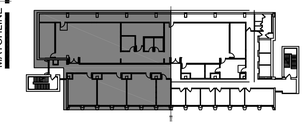
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ENLARGED NINTH FLOOR ELECTRICAL REMOVALS PLAN - WEST

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

1 / 9-ED101



KEY PLAN

SCALE: NTS

DRAWING NOTES:

A. DISCONNECT & REMOVE ALL EXISTING EQUIPMENT, DEVICES, CONTROLS & ASSOCIATED CONDUIT/CABLE/RACEWAY BACK TO THE POINT OF ORIGIN AS REQUIRED TO ACCOMPLISH WORK SHOWN ON PLANS. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO:

1. LUMINAIRES
2. WIRING DEVICES
3. FIRE ALARM DEVICES
4. DATA RECEPTACLES
5. WAPS (RETURN TO UBIT)
6. MECHANICAL EQUIPMENT CONNECTIONS

B. CONDUCT ALL REMOVAL WORK TO MINIMIZE INTERFERENCE WITH ADJACENT & OCCUPIED BUILDING AREAS. COORDINATE ALL WORK WITH OWNER'S REPRESENTATIVE.

C. PROVIDE ALL CUTTING, PATCHING & FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH & SEAL OPENINGS TO MATCH ADJACENT WALLS, FLOORS, CEILINGS, ETC., UNLESS OTHERWISE INDICATED.

D. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT & SYSTEMS LOCATED OUTSIDE THE WORK AREA & INTERRUPTED BY THE REMOVALS WORK. PROVIDE ALL ADDITIONAL CONDUIT, CONDUCTORS, JUNCTION BOX(ES), ACCESSORIES, ETC. REQUIRED TO EXTEND & RECONNECT REMAINING EQUIPMENT & SYSTEMS.

E. SCHEDULE SYSTEMS SHUTDOWNS WITH OWNER. PROVIDE A MINIMUM OF 120 HOURS NOTICE. SYSTEM SHUTDOWNS SHALL NOT INTERFERE WITH BUILDING OPERATIONS.

F. EXISTING EQUIPMENT LOCATIONS & SIZES SHOWN ARE APPROXIMATE & NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE WORK. NOT ALL EXISTING ELECTRICAL EQUIPMENT IN THE WORK AREA HAS BEEN SHOWN. FIELD VERIFY ACTUAL EXTENT OF REMOVALS WORK AT SITE.

KEYED REMOVAL NOTES: (#)

1. DISCONNECT & REMOVE ALL EXISTING WIRE, CABLE AND CONDUIT FROM COLD/HOT/WARM ROOMS 913A, 913B AND 913C AND ASSOCIATED COMPRESSOR EQUIPMENT IN SERVICE CORRIDOR 917.

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ENLARGED NINTH FLOOR ELECTRICAL REMOVALS PLAN - WEST

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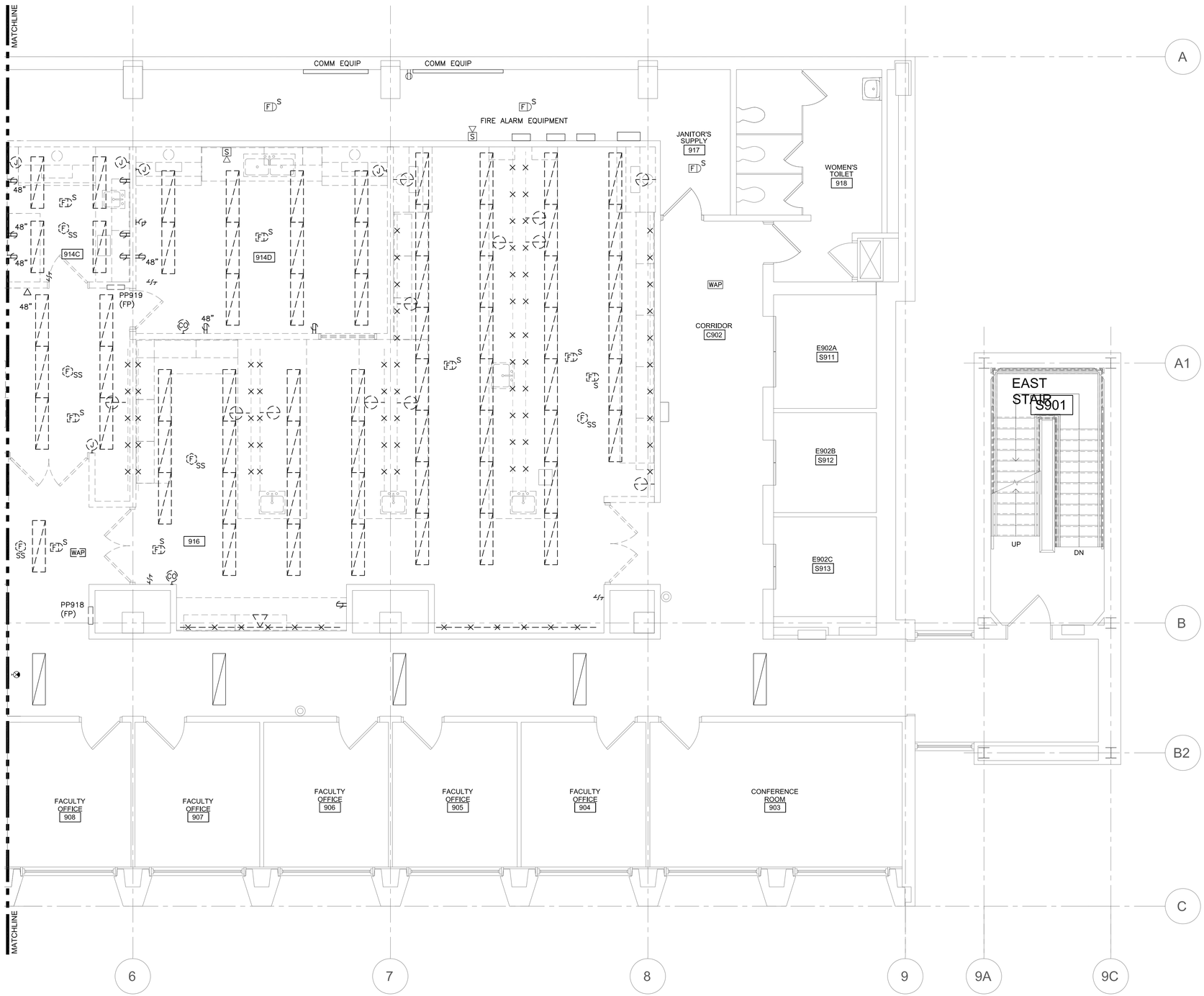
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ENLARGED NINTH FLOOR ELECTRICAL REMOVALS PLAN - EAST

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

1 / 9-ED102

DRAWING NOTES:

A. DISCONNECT & REMOVE ALL EXISTING EQUIPMENT, DEVICES, CONTROLS & ASSOCIATED CONDUIT/CABLE/RACEWAY BACK TO THE POINT OF ORIGIN AS REQUIRED TO ACCOMPLISH WORK SHOWN ON PLANS. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO:

1. LUMINAIRES
2. WIRING DEVICES
3. FIRE ALARM DEVICES
4. DATA RECEPTACLES
5. WAPS (RETURN TO UBIT)
6. MECHANICAL EQUIPMENT CONNECTIONS

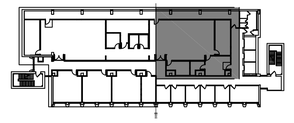
B. CONDUCT ALL REMOVAL WORK TO MINIMIZE INTERFERENCE WITH ADJACENT & OCCUPIED BUILDING AREAS. COORDINATE ALL WORK WITH OWNER'S REPRESENTATIVE.

C. PROVIDE ALL CUTTING, PATCHING & FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH & SEAL OPENINGS TO MATCH ADJACENT WALLS, FLOORS, CEILINGS, ETC., UNLESS OTHERWISE INDICATED.

D. MAINTAIN THE INTEGRITY OF ALL EXISTING EQUIPMENT & SYSTEMS LOCATED OUTSIDE THE WORK AREA & INTERRUPTED BY THE REMOVALS WORK. PROVIDE ALL ADDITIONAL CONDUIT, CONDUCTORS, JUNCTION BOX(ES), ACCESSORIES, ETC. REQUIRED TO EXTEND & RECONNECT REMAINING EQUIPMENT & SYSTEMS.

E. SCHEDULE SYSTEMS SHUTDOWNS WITH OWNER. PROVIDE A MINIMUM OF 120 HOURS NOTICE. SYSTEM SHUTDOWNS SHALL NOT INTERFERE WITH BUILDING OPERATIONS.

F. EXISTING EQUIPMENT LOCATIONS & SIZES SHOWN ARE APPROXIMATE & NEED TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE WORK. NOT ALL EXISTING ELECTRICAL EQUIPMENT IN THE WORK AREA HAS BEEN SHOWN. FIELD VERIFY ACTUAL EXTENT OF REMOVALS WORK AT SITE.



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR ELECTRICAL REMOVALS PLAN - EAST

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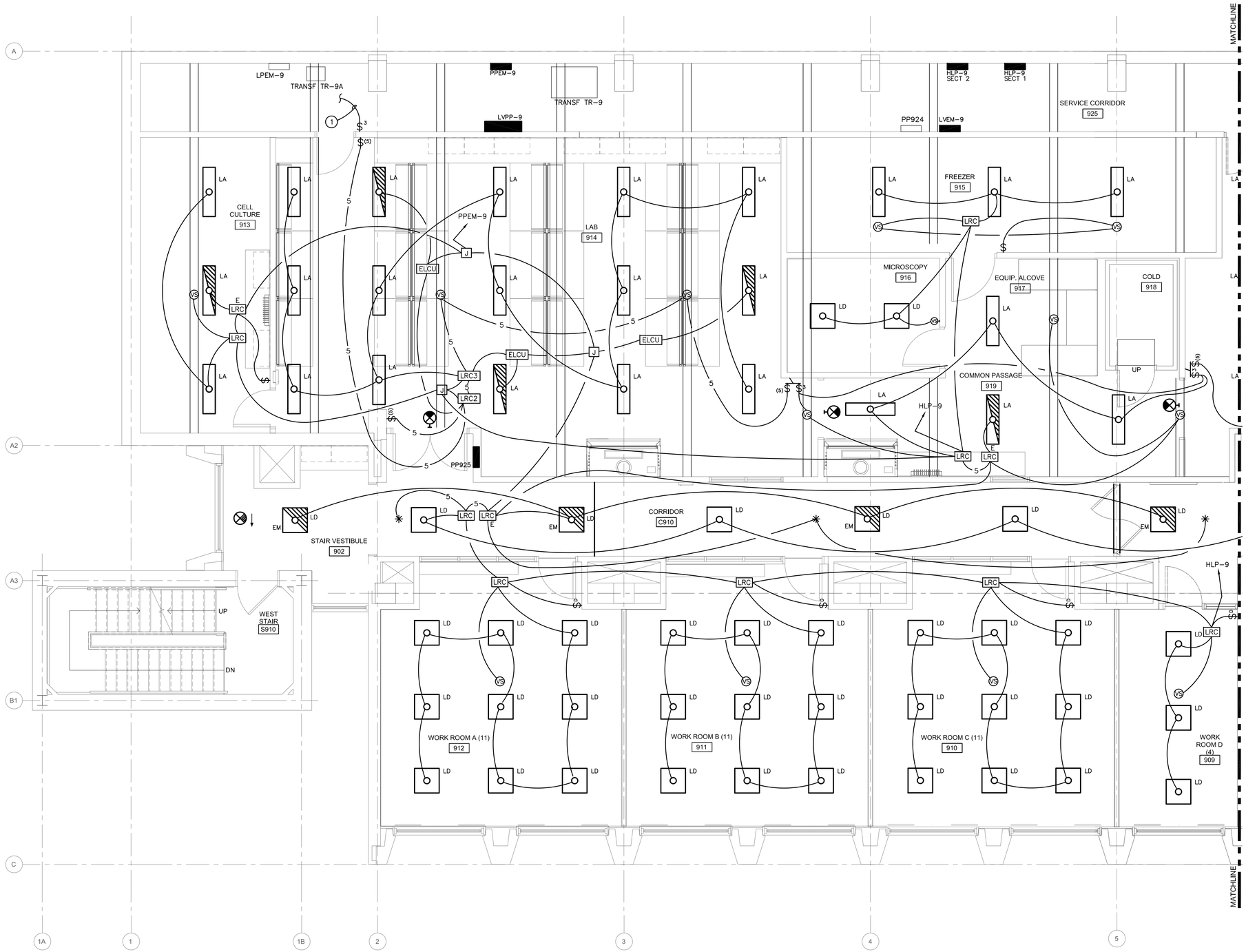
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ENLARGED NINTH FLOOR LIGHTING PLAN - WEST

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

1 / 9-EL101

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.

B. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.

C. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 6 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 3 INCH FROM PIPE COVERS).

D. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.

E. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED.

F. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.

G. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

H. VERIFY LOCATIONS OF SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING AND LOCATING BOXES, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO THE GSA.

I. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.

J. PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.

K. EMPTY RACEWAY RUNS: PROVIDE PULLBOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

L. JUNCTION AND PULLBOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.

M. SUPPORT PANEL, JUNCTION, AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.

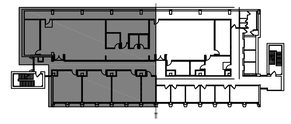
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O. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON THIS DRAWING SHALL BE CONCEALED. CONSULT WITH ARCHITECT FOR ROUTING OF SURFACE RACEWAY IF CONCEALMENT IS IMPOSSIBLE.

P. CIRCUIT EMERGENCY LIGHTING FIXTURES AS INDICATED AND PER DETAIL 1 & 2 ON DRAWING 9–E–500.

KEYED NOTES: (#)

1. CONNECT TO EXISTING SERVICE CORRIDOR LIGHT FIXTURES AS REQUIRED.



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR LIGHTING PLAN - WEST

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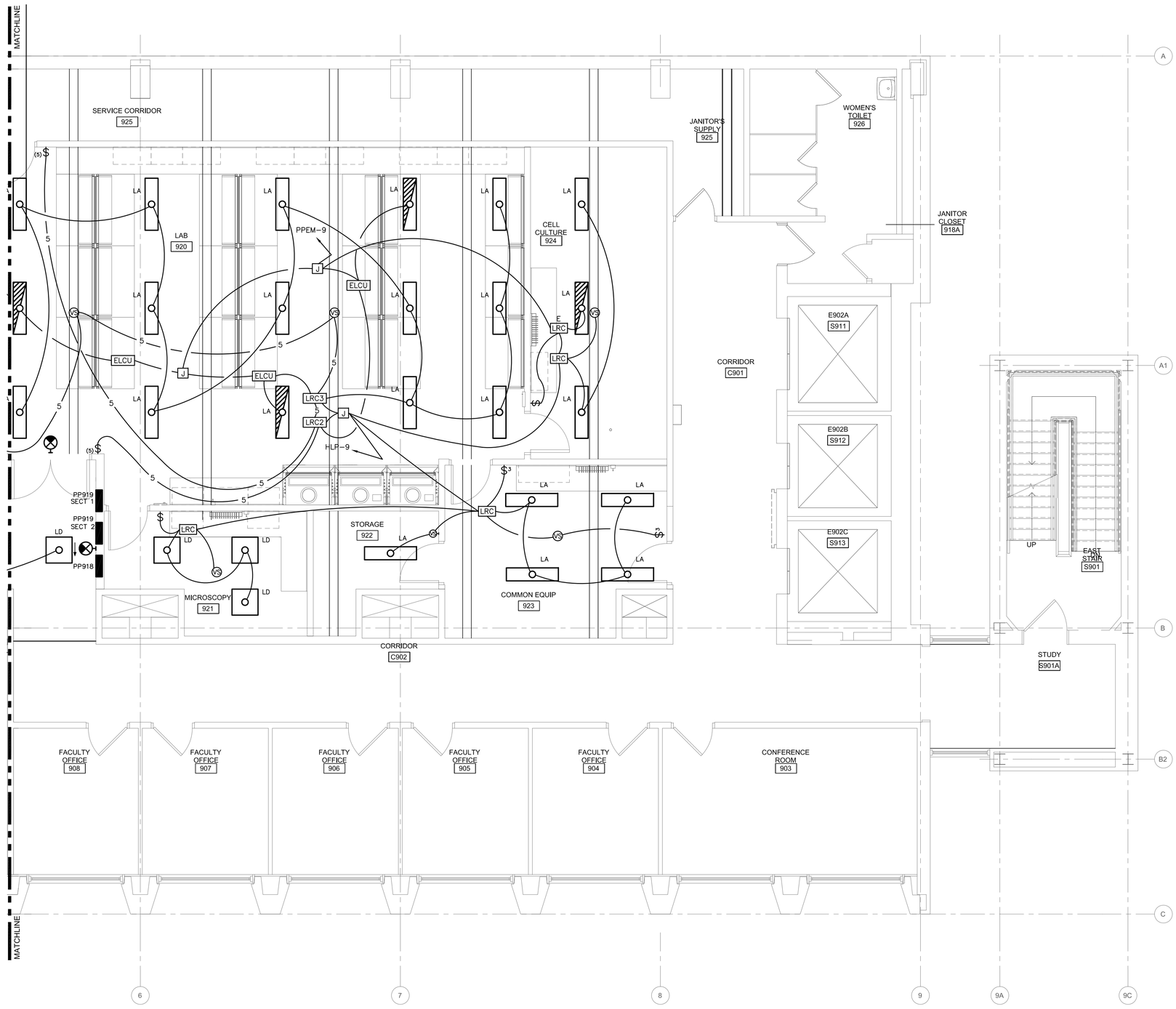
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ENLARGED NINTH FLOOR LIGHTING PLAN - EAST

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

1 / 9-EL102

N

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.

B. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.

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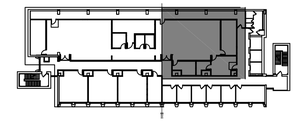
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P. CIRCUIT EMERGENCY LIGHTING FIXTURES AS INDICATED AND PER DETAIL 1 ON DRAWING 9–E–500.



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR LIGHTING PLAN - EAST

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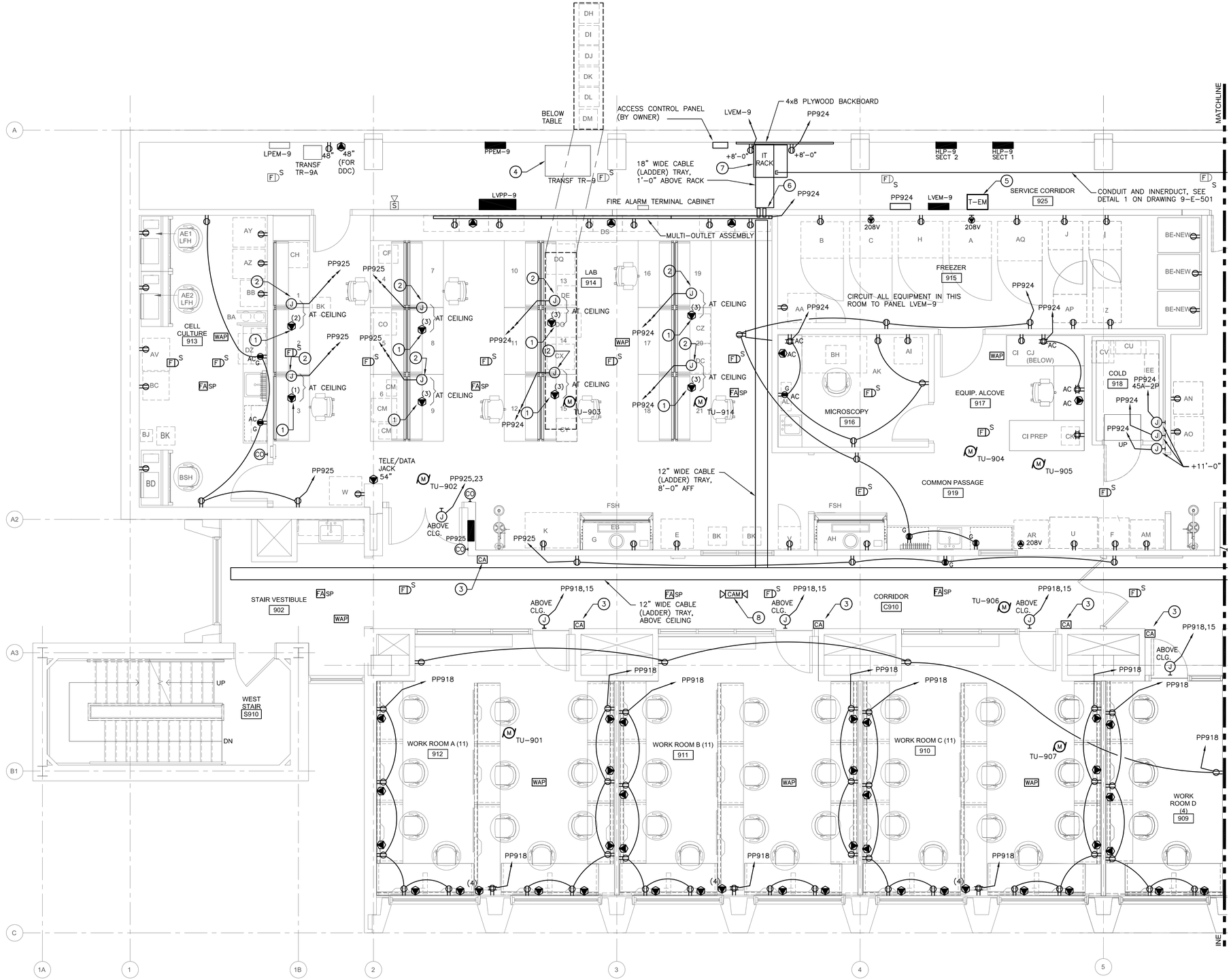
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KEYED NOTES: (#)

1. PROVIDE CAT 6A CABLES FROM PATCH PANEL IN SERVICE CORRIDOR 925 TO DATA JACKS AT OVERHEAD SERVICE CARRIER (CARRIER BY GC) VIA DATA PULLBOX AT CEILING. COORDINATE FINAL DATA JACK REQUIREMENTS ASSOCIATED WITH OVERHEAD SERVICE CARRIER WITH GENERAL CONTRACTOR. SEE DETAIL 5 ON DRAWING 5–E–501.
2. PROVIDE CEILING MOUNTED JUNCTION BOX (WITH CIRCUIT AS INDICATED) FOR CONNECTION TO OVERHEAD SERVICE CARRIER (CARRIER BY GC) VIA ELECTRICAL PULLBOX AT CEILING. COORDINATE FINAL CONNECTION REQUIREMENTS ASSOCIATED WITH OVERHEAD SERVICE CARRIER WITH GENERAL CONTRACTOR. SEE DETAIL 5 ON DRAWING 5–E–501.
3. PROVIDE SURFACE 4–GANG DEVICE BOX WITH SURFACE RACEWAY (WITH PULLSTRING) TO ABOVE CEILING.
4. EXISTING 300kVA TRANSFORMER.
5. FIELD VERIFY EXACT LOCATION FOR TRANSFORMER T–EM WITH ARCHITECT/ENGINEER.
6. PROVIDE (2) 4" SLEEVES THROUGH WALL WITH FIRESTOPPING PER DETAIL 3 ON DRAWING 9–E–501 AND SPECIFICATION SECTION 260510.
7. REFER TO DETAIL 1 ON DRAWING 9–E–501 FOR IT RACK ELEVATION AND DETAILS.
8. CAMERA AND ASSOCIATED CABLE BY UB.



ENLARGED NINTH FLOOR POWER & SYSTEMS PLAN - WEST

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

1 / 9-EP101

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.

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G. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

H. VERIFY LOCATIONS OF OUTLETS IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO UB.

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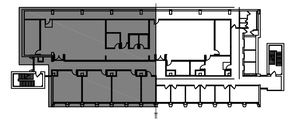
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P. CONNECT FIRE ALARM DEVICES TO EXISTING EST III FIRE ALARM SYSTEM CIRCUIT(S) SERVING WORK AREA (TYPICAL). SEE DETAIL 3 ON DRAWING 9–E–500.

Q. PROVIDE (2) CAT 6A CABLES FROM DATA RACK IN SERVICE CORRIDOR 925 TO EACH DATA OUTLET LOCATION INDICATED (ALL OUTLETS ARE TWO PORTS AND REQUIRE TWO CABLES UNLESS NOTED OTHERWISE). RUN ABOVE ACCESSIBLE CEILING OR IN CABLE TRAY WHEREVER POSSIBLE. INSTALL IN CONDUIT IF RUNNING EXPOSED, VERIFY LOCATIONS WITH ENGINEER PRIOR TO INSTALLATION. LEAVE 10'–0" SLACK FOR EACH CABLE AT DATA RACK FOR TERMINATION BY UBIT.

R. REFER TO DETAILS 2 & 3 ON DRAWING 9–E–501 FOR WAP INSTALLATION REQUIREMENTS.

S. REFER TO DRAWINGS 9–E–601 THRU 9–E–603 FOR MISCELLANEOUS EQUIPMENT POWER REQUIREMENTS. ASSOCIATED RECEPTACLES MAY BE CIRCUITED TOGETHER TO MINIMIZE PANELBOARD CIRCUIT QUANTITIES. MAXIMUM 1920 WATTS PER 20 AMP CIRCUIT.



KEY PLAN

SCALE: NTS

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ENLARGED NINTH FLOOR POWER & SYSTEMS PLAN - WEST

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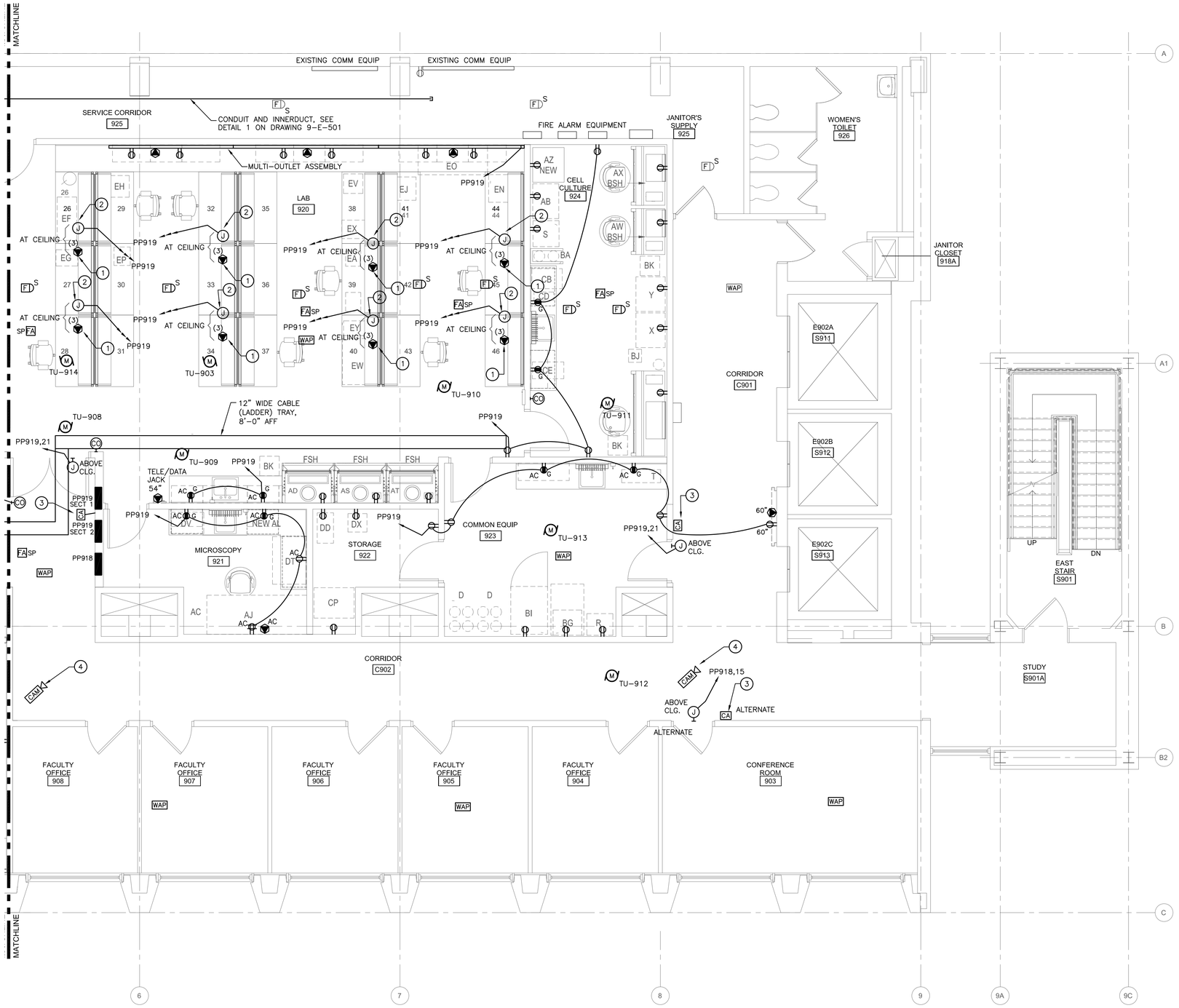
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KEYED NOTES: (#)

1. PROVIDE CAT 6A CABLES FROM PATCH PANEL IN SERVICE CORRIDOR TO DATA JACKS AT OVERHEAD SERVICE CARRIER (CARRIER BY CC) VIA DATA PULLBOX AT CEILING. COORDINATE FINAL DATA JACK REQUIREMENTS ASSOCIATED WITH OVERHEAD SERVICE CARRIER WITH GENERAL CONTRACTOR. SEE DETAIL ON DRAWING 5–E–500.
2. PROVIDE CEILING MOUNTED JUNCTION BOX (WITH CIRCUIT AS INDICATED) FOR CONNECTION TO OVERHEAD SERVICE CARRIER (CARRIER BY CC) VIA ELECTRICAL PULLBOX AT CEILING. COORDINATE FINAL CONNECTION REQUIREMENTS ASSOCIATED WITH OVERHEAD SERVICE CARRIER WITH GENERAL CONTRACTOR. SEE DETAIL ON DRAWING 5–E–500.
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4. CAMERA AND ASSOCIATED CABLE BY UB.



ENLARGED NINTH FLOOR POWER & SYSTEMS PLAN - EAST

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

1 / 9-EP102

N

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.

B. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.

C. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 6 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 3 INCH FROM PIPE COVERS).

D. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.

E. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED.

F. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.

G. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

H. VERIFY LOCATIONS OF OUTLETS IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO UB.

I. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.

J. PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.

K. EMPTY RACEWAY RUNS: PROVIDE PULLBOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

L. JUNCTION AND PULLBOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.

M. SUPPORT PANEL, JUNCTION, AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.

N. PROVIDE ALL CUTTING, PATCHING, AND FIRESTOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE CONCEALED IN FINISHED SPACES. PATCH OPENINGS TO MATCH EXISTING WALLS, FLOORS, CEILINGS, EFC.

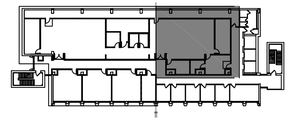
O. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON THIS DRAWING SHALL BE CONCEALED. CONSULT WITH ARCHITECT FOR ROUTING OF SURFACE RACEWAY IF CONCEALMENT IS IMPOSSIBLE.

P. CONNECT FIRE ALARM DEVICES TO EXISTING EST III FIRE ALARM SYSTEM CIRCUIT(S) SERVING WORK AREA (TYPICAL). SEE DETAIL 3 ON DRAWING 9–E–500.

Q. PROVIDE (2) CAT 6A CABLES FROM DATA RACK IN SERVICE CORRIDOR 925 TO EACH DATA OUTLET LOCATION INDICATED (ALL OUTLETS ARE TWO PORTS AND REQUIRE TWO CABLES UNLESS NOTED OTHERWISE). RUN ABOVE ACCESSIBLE CEILING OR IN CABLE TRAY WHEREVER POSSIBLE. INSTALL IN CONDUIT IF RUNNING EXPOSED, VERIFY LOCATIONS WITH ENGINEER PRIOR TO INSTALLATION. LEAVE 10'–0" SLACK FOR EACH CABLE AT DATA RACK FOR TERMINATION BY UBIT.

R. REFER TO DETAILS 2 & 3 ON DRAWING 9–E–501 FOR WAP INSTALLATION REQUIREMENTS.

S. REFER TO DRAWINGS 9–E–601 THRU 9–E–603 FOR MISCELLANEOUS EQUIPMENT POWER REQUIREMENTS. ASSOCIATED RECEPTACLES MAY BE CIRCUITED TOGETHER TO MINIMIZE PANELBOARD CIRCUIT QUANTITIES. MAXIMUM 1920 WATTS PER 20 AMP CIRCUIT.



KEY PLAN

SCALE: NTS

N

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ENLARGED NINTH FLOOR POWER & SYSTEMS PLAN - EAST

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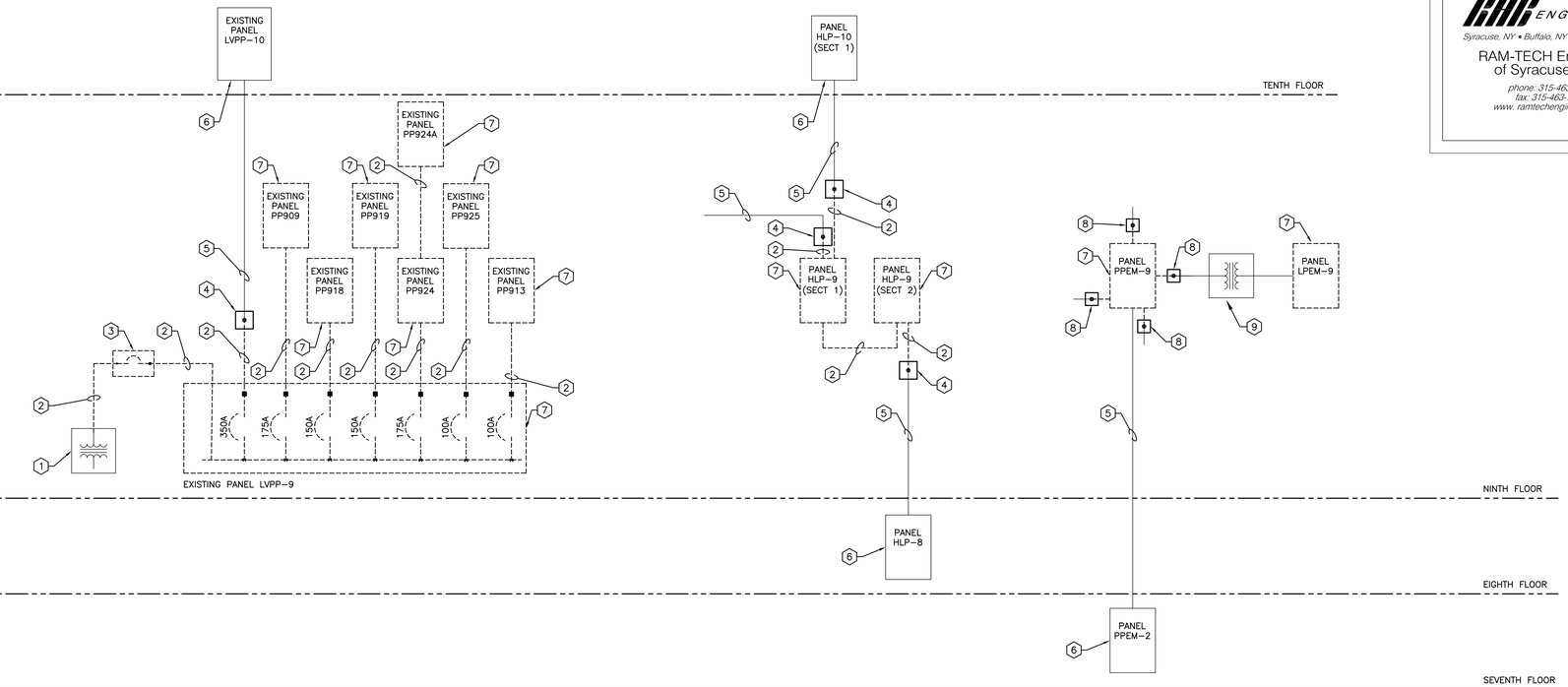
9-EP102
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KEYED REMOVALS (PARTIAL REMOVALS ONE LINE POWER DIAGRAM NOTES: (#)

1. EXISTING 300kVA TRANSFORMER TO REMAIN.
2. DISCONNECT & REMOVE EXISTING CONDUIT & CONDUCTORS.
3. DISCONNECT & REMOVE EXISTING 700A ENCLOSED CIRCUIT BREAKER.
4. PROVIDE JUNCTION BOX TO INTERCEPT EXISTING FEEDER SIZED PER NEC. COORDINATE LOCATION OF JUNCTION BOX IN FIELD.
5. EXISTING CONDUIT & CONDUCTORS TO REMAIN.
6. EXISTING PANELBOARD TO REMAIN.
7. EXISTING PANELBOARD TO BE REMOVED.
8. PROVIDE JUNCTION BOX TO INTERCEPT EXISTING BRANCH CIRCUIT SIZED PER NEC. COORDINATE LOCATION OF JUNCTION BOX IN FIELD.
9. EXISTING 15kVA TRANSFORMER TO REMAIN.

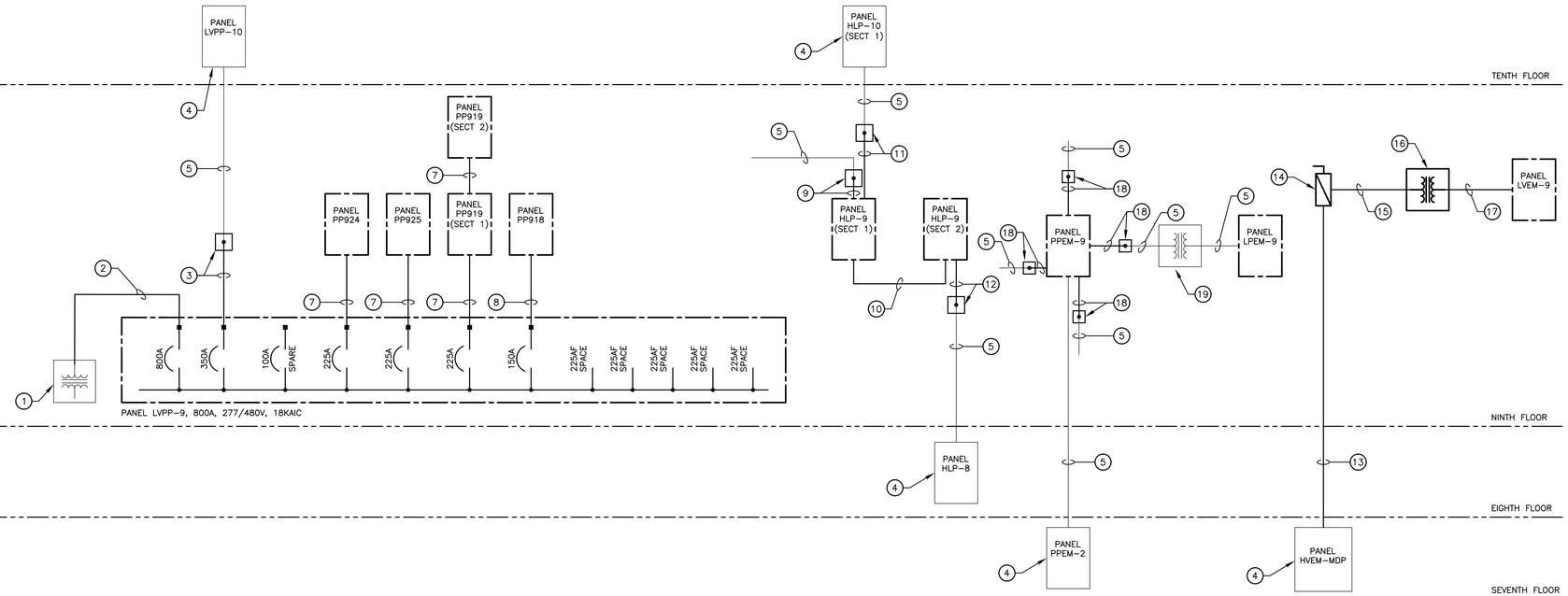


PARTIAL REMOVALS ONE LINE POWER DIAGRAM

NTS

KEYED NOTES (PARTIAL ONE LINE POWER DIAGRAM: (#)

1. EXISTING 300kVA TRANSFORMER TR–9 TO REMAIN.
2. PROVIDE 2 SETS OF ((4)#600 & (1)#⅝ G IN 4"C).
3. PROVIDE CONDUIT & CONDUCTORS TO MATCH EXISTING SIZE, TYPE & QUANTITY FOR SPLICING TO EXISTING FEEDER. MINIMUM SIZE (4)#500 & (1)#3G IN 3"C. PROVIDE JUNCTION BOX AS REQUIRED PER CODE.
4. EXISTING PANELBOARD TO REMAIN.
5. EXISTING CONDUIT & CONDUCTORS TO REMAIN.
6. PROVIDE (4)#3 & (1)#8G IN 1½"C
7. PROVIDE (4)#⅝ & (1)#4G IN 3"C
8. PROVIDE (4)#⅝ & (1)#6G IN 2"C
9. PROVIDE CONDUIT & CONDUCTORS TO MATCH EXISTING SIZE, TYPE & QUANTITY FOR SPLICING TO EXISTING FEEDER. MINIMUM SIZE 2 SETS OF (4)#250 & (1)#3G IN 3"C. PROVIDE JUNCTION BOX AS REQUIRED PER CODE.
10. PROVIDE 2 SETS OF (4)#250 & (1)#3G IN 3"C.
11. PROVIDE CONDUIT & CONDUCTORS TO MATCH EXISTING SIZE, TYPE & QUANTITY FOR SPLICING TO EXISTING FEEDER. MINIMUM SIZE (4)#⅝ & (1)#6G IN 2"C. PROVIDE JUNCTION BOX AS REQUIRED PER CODE.
12. PROVIDE CONDUIT & CONDUCTORS TO MATCH EXISTING SIZE, TYPE & QUANTITY FOR SPLICING TO EXISTING FEEDER. MINIMUM SIZE (4)#⅝ & (1)#6G IN 2"C. PROVIDE JUNCTION BOX AS REQUIRED PER CODE.
13. PROVIDE (4)#2 & (1)#8G IN 1½"C. CONNECT TO EXISTING SPARE 100A/3P CIRCUIT BREAKER IN PANEL 'HVEM–MDP'.
14. PROVIDE 100A FUSED SAFETY SWITCH WITH 100A FUSES.
15. PROVIDE (4)#2 & (1)#8G IN 1½"C.
16. PROVIDE 75kVA TRANSFORMER T–EM. 480V DELTA PRIMARY, 208/120 WYE SECONDARY.
17. PROVIDE (4)#⅝ & (1)#6G IN 2"C.
18. PROVIDE CONDUIT & CONDUCTORS TO MATCH EXISTING SIZE, TYPE & QUANTITY FOR SPLICING TO EXISTING BRANCH CIRCUIT. MINIMUM SIZE (2)#12 & (1)#12G IN ½"C. PROVIDE JUNCTION BOX AS REQUIRED PER CODE.
19. EXISTING 15kVA TRANSFORMER TR–9A TO REMAIN.



PARTIAL ONE LINE POWER DIAGRAM

NTS

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PARTIAL ONE LINE POWER DIAGRAM

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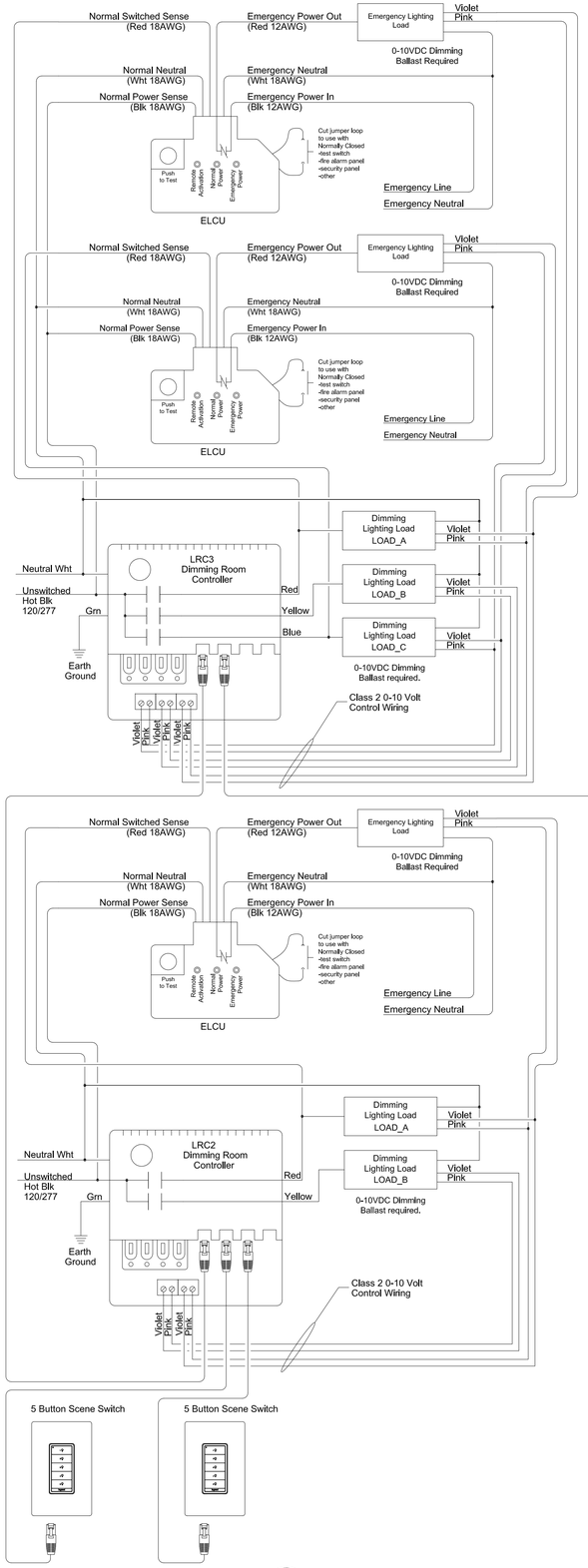
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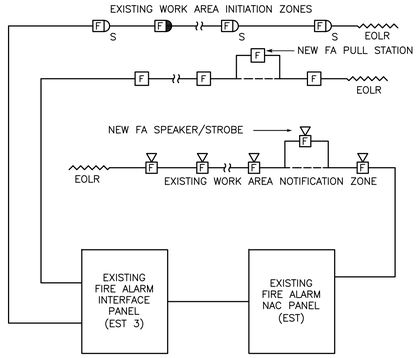


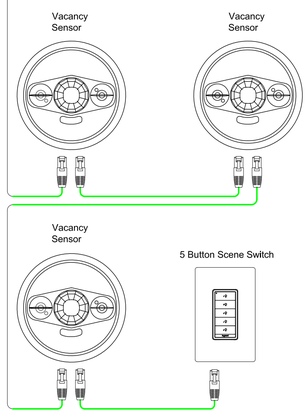
DIAGRAM NOTES:

A. REFER TO FLOOR PLANS FOR EXACT NUMBER & LOCATION OF DEVICES AND EQUIPMENT.

B. ALL FIRE ALARM SYSTEM WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

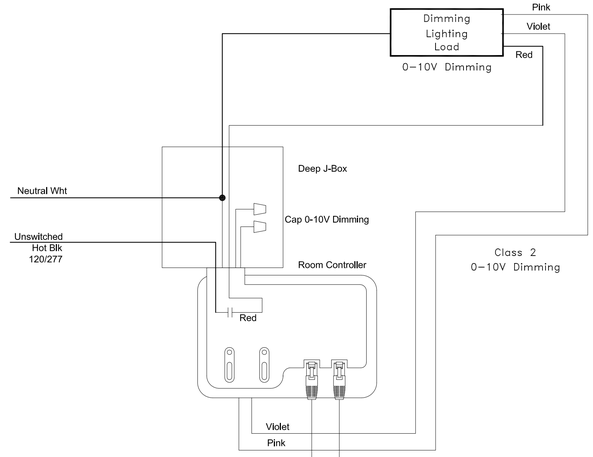
3 PARTIAL FIRE ALARM SYSTEM DIAGRAM

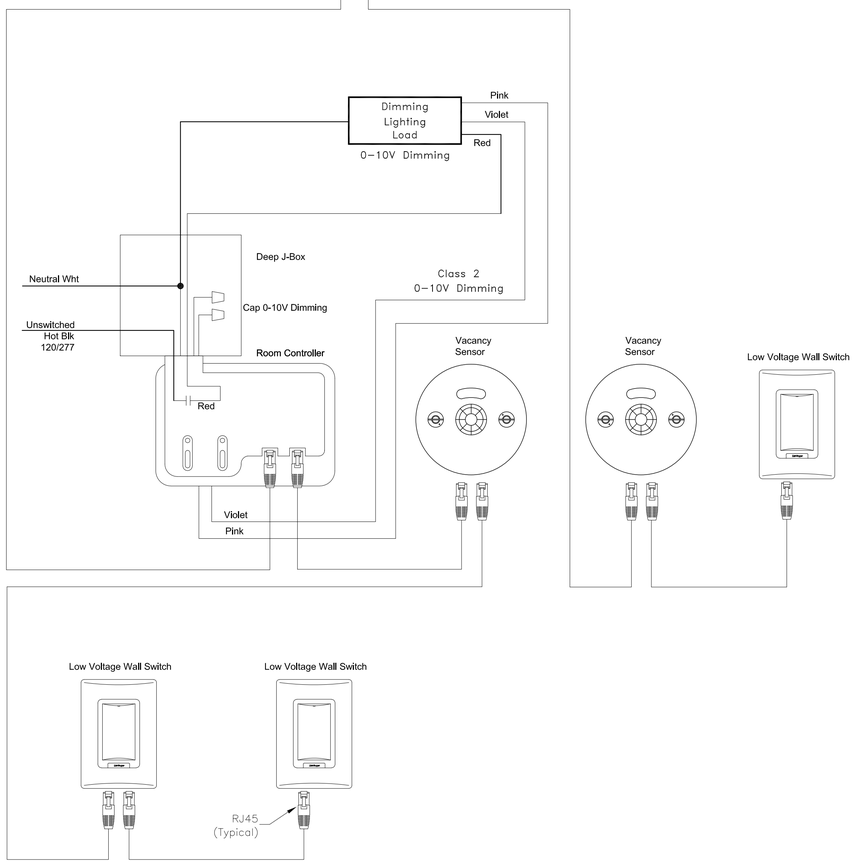
Not to Scale



2 LABS 914 & 920 LIGHTING CONTROL WIRING DIAGRAM

Not to Scale





1 TYPICAL ROOM LIGHTING CONTROL WIRING DIAGRAM

Not to Scale

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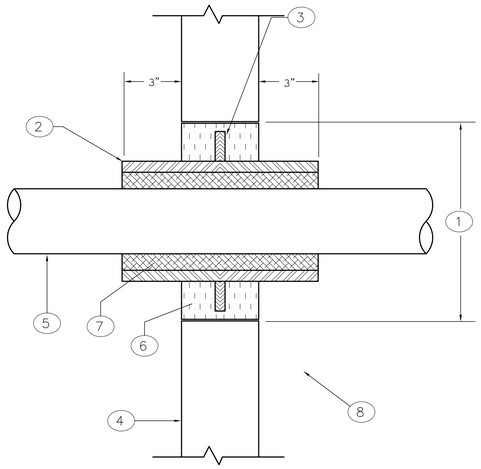
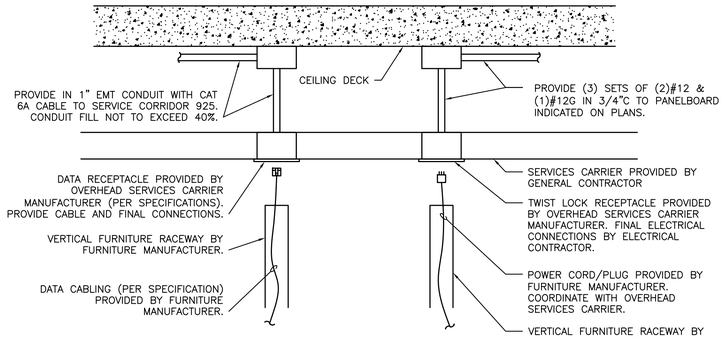


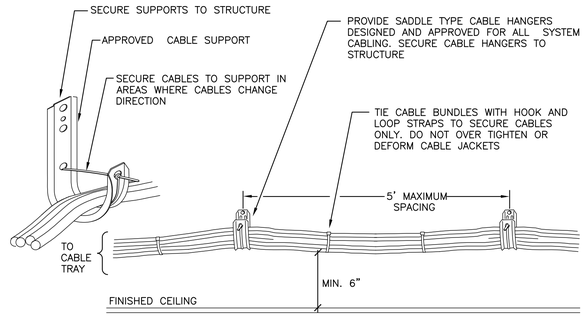
DIAGRAM NOTES:

1 CORE DRILL OPENING IN WALL.
2 SCHEDULE 80 GALVINIZED STEEL PIPE SLEEVE. SIZE AS REQUIRED.
3 1" WIDE FLASHING WELDED TO SLEEVE.
4 FINISHED WALL
5 CABLE
6 CONCRETE ANNULAR INFILL/NON-SHRINK GROUT.
7 FIRE-PROOF SEALANT TO FULL HEIGHT OF THE SLEEVE.
8 ASSEMBLY SHALL BE FULLY TESTED AFTER INSTALLATION.

4 CONDUIT WALL/FLOOR PENETRATION
Not to Scale



5 OVERHEAD SERVICES CARRIER
Not to Scale



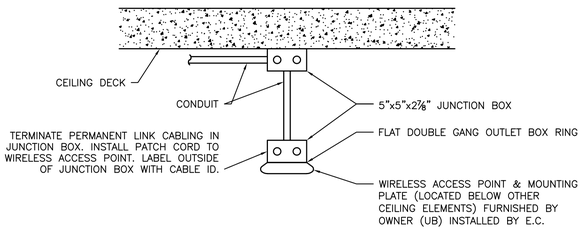
INSTALLATION NOTES:

A. LOCATE CABLE BUNDLES A MINIMUM OF 6" ABOVE REMOVABLE CEILINGS TO MAINTAIN CLEARANCE ALONG WALLS WHERE POSSIBLE. LOCATE IN AREAS THAT ARE ACCESSIBLE.

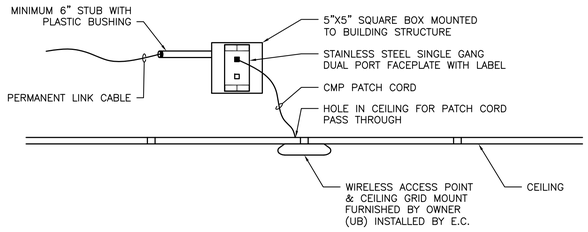
B. USE 2 OR MORE CABLE HANGERS AT ALL TURNS TO MAINTAIN MANUFACTURER'S BEND RADIUS REQUIREMENTS.

C. REFER TO SPECIFICATIONS FOR ADDITIONAL CABLE INSTALLATION REQUIREMENTS.

6 TYPICAL J-HOOK INSTALLATION DETAIL
Not to Scale

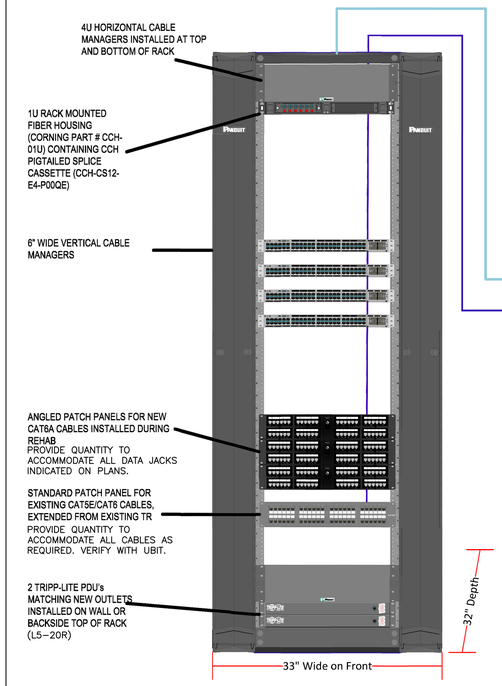


3 WIRELESS ACCESS POINT - OPEN CEILING MOUNT
Not to Scale

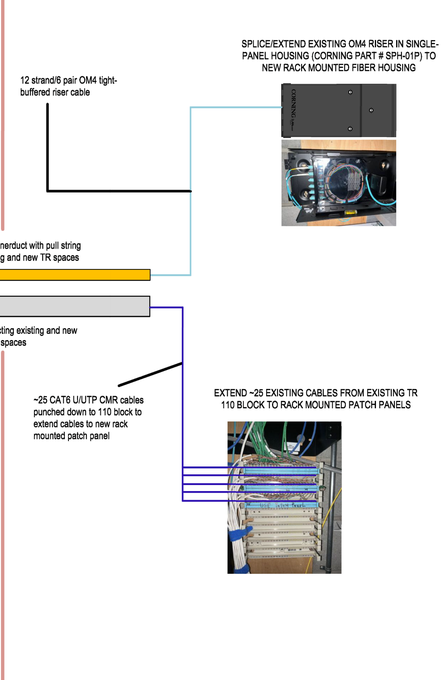


2 WIRELESS ACCESS POINT - CEILING GRID MOUNTED
Not to Scale

NEW TR LOCATION



EXISTING TR



GENERAL NOTE:

CONTRACT TO PROVIDE ALL ITEMS SHOWN ABOVE (EQUIPMENT RACK, VERTICAL CABLE MANAGEMENT, HORIZONTAL CABLE MANAGEMENT, FIBER HOUSING, PATCH PANELS, PDU'S, INNERDUCT AND CONDUIT. ALL PATCH CABLES AS REQUIRED BASED ON QUANTITY AND TYPE OF DEVICE. NETWORK SWITCHES ARE OFOI. EXTENSION OF COPPER AND FIBER WILL CAUSE OUTAGE FOR OFFICES THAT ARE OUT OF SCOPE. COORDINATION WITH UBIT/NCS WILL BE REQUIRED TO PLAN OUTAGE WINDOW FOR CUT-OVER OF EXISTING FIBER/COPPER AND MOVING NETWORK SWITCHES TO NEW RACK LOCATION.

1 RACK ELEVATION AND DETAILS
Not to Scale

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LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMP	VOLTAGE/ DRIVER	LUMENS	WATTAGE	MOUNTING	NOTES
LA	12"Wx48"Lx2.3"H PENDANT MOUNTED LINEAR WITH UP/DOWN SPECULAR MICRO-OPTICS LENS, SILVER FINISH 90 CRI	CORELITE DSI-WS-50L940-1D-UNV-STD-S-4 OR APPROVED EQUAL.	LED, 4000 DEG. K	120-277 VOLT	5000	37.8	CEILING PENDANT	
LB	24"Wx48"Lx3"H LED SPECIFICATION GRADE CENTER BASKET TROFFER, WHITE TRIM, 90 CRI, SELECTABLE LUMENS & COLOR TEMP	METALUX 24CZSCT3-UNV OR APPROVED EQUAL.	LED, 4000 DEG. K	120-277 VOLT	5073	35.3	CEILING GRID RECESSED	
LC	24"Wx48"Lx3"H LED SPECIFICATION GRADE CENTER BASKET TROFFER, WHITE TRIM, 90 CRI, SELECTABLE LUMENS & COLOR TEMP	METALUX 24CZSCT3-UNV OR APPROVED EQUAL.	LED, 4000 DEG. K	120-277 VOLT	3728	24.7	CEILING GRID RECESSED	
LD	24"Wx24"Lx3"H LED SPECIFICATION GRADE CENTER BASKET TROFFER, WHITE TRIM, 90 CRI, SELECTABLE LUMENS & COLOR TEMP	METALUX 22CZSCT3-UNV OR APPROVED EQUAL.	LED, 4000 DEG. K	120-277 VOLT	3479	27.2	CEILING GRID RECESSED	
EXIT	13"Wx2"Dx7.5"H LED EXIT SIGN, POLYCARBONATE HOUSING	SURE-LITES LPX6 OR APPROVED EQUAL.	--	120-277 VOLT	--	--	SURFACE WALL MOUNT	

ELECTRICAL EQUIPMENT WIRING SCHEDULE

EQUIP. ID	DESCRIPTION	LOCATION	HP (WATTS)	VOLTS	PH.	PANEL	CIRCUIT BREAKER	POWER & CONTROL WIRING/CONDUIT	MOTOR CONTROL (BY DIV. 16 UNLESS NOTED)	MOTOR CONTROL FURNISHED BY OTHERS (INSTALLED BY DIV. 16)	LOCATION OF CONTROLLERS	NOTES
TU-901	TERMINAL UNIT	WORK RM 912	(3800)	277	1	HLP-9	20A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-902	TERMINAL UNIT	LAB 914	(3800)	277	1	HLP-9	20A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-903	TERMINAL UNIT	LAB 914	(4400)	277	1	HLP-9	20A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-904	TERMINAL UNIT	COLD 917	(1300)	277	1	HLP-9	15A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-905	TERMINAL UNIT	COMM/SHARED PASS 919	(1300)	277	1	HLP-9	15A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-906	TERMINAL UNIT	CORRIDOR C910	(3800)	277	1	HLP-9	20A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-907	TERMINAL UNIT	WORK RM 910	(1300)	277	1	HLP-9	15A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-908	TERMINAL UNIT	LAB 920	(5100)	277	1	HLP-9	25A/1P	2#10, 1#12G-3/4"C	---	---	---	1
TU-909	TERMINAL UNIT	LAB 920	(1300)	277	1	HLP-9	15A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-910	TERMINAL UNIT	LAB 920	(5700)	277	1	HLP-9	25A/1P	2#10, 1#12G-3/4"C	---	---	---	1
TU-911	TERMINAL UNIT	CELL CULTURE 924	(2500)	277	1	HLP-9	15A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-912	TERMINAL UNIT	CORRIDOR C902	(3800)	277	1	HLP-9	20A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-913	TERMINAL UNIT	COMMON EQUIP 923	(1300)	277	1	HLP-9	15A/1P	2#12, 1#12G-3/4"C	---	---	---	1
TU-914	TERMINAL UNIT	LAB 914	(3200)	277	1	HLP-9	15A/1P	2#12, 1#12G-3/4"C	---	---	---	1

NOTES:

1. INTEGRAL DISCONNECT SWITCH.

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SCHEDULES

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2025-088 CLIENT PROJECT NO.	

9-E-600
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LAB EQUIPMENT WIRING SCHEDULE

EQUIPMENT ID	QUANTITY	DESCRIPTION	LOCATION	HORSEPOWER HP	KILOWATTS kW	FULL LOAD CURRENT FLA	VOLTS	PHASE	PANEL	CIRCUIT BREAKER	POWER & CONTROL WIRING/CONDUIT	FUSED SAFETY SWITCH	RECEPTACLE NEMA CONFIGURATION	EQUIPMENT JUNCTION BOX (BY OTHERS)	HARDWIRE	MOUNTING HEIGHT ABOVE FINISHED FLOOR	WALL	FLOOR	CEILING	NOTES
A	1	-80 DEG FREEZER	FREEZER 915	–	1.33	6.2	208	1	LVEM-9	20A/2P	(2)#12 & (1)#12G, ¾"C		6-30R							
B	1	-80 DEG FREEZER	FREEZER 915	–	–	4.0	208	1	LVEM-9	20A/2P	(2)#12 & (1)#12G, ¾"C		6-30R							
C	1	-80 DEG FREEZER	FREEZER 915	–	–	16.7	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
E	1	-20 DEG FREEZER	LAB 914	–	–	5.0	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
F	1	FRIDGE/FREEZER	COMMON PASSAGE 919	–	–	4.5	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
G	1	FUME HOOD	LAB 914	–	–	?	120	–	PP925	20A/1P	(3)#10 & (1)#10G, ¾"C		5-20R							
H	1	-80 DEG FREEZER	FREEZER 915	–	0.93	11.2	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
I	1	-20 DEG FREEZER	FREEZER 915	–	–	2.0	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
J	1	-20 DEG FREEZER	FREEZER 915	–	–	2.0	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
K	1	FRIDGE	COMMON PASSAGE 919	–	–	13.7	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
N	1	AUTOCLAVE	?	–	3.0	–	208	1	?	20A/2P	(2)#12 & (1)#12G, ¾"C		6-20R							
O	1	AUTOCLAVE	?	–	–	13	208	1	?	20A/2P	(2)#12 & (1)#12G, ¾"C		6-20R							
R	1	ICE MAKER	COMMON EQUIP 923	–	–	5.2	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
S	2	INCUBATORS	CELL CULTURE 924	–	–	7.2	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
T	1	MICROPURE WATER SYSTEM	COMMON EQUIP 923	–	–	2	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
U	1	ORBITAL SHAKER	COMMON PASSAGE 919	–	–	6.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
V	1	FRIDGE/FREEZER	COMMON PASSAGE 919	–	0.12	1.5	120	1	PP925	20A/1P	(2)#10 & (1)#10G, ¾"C		5-20R							
W	1	-20 DEG FREEZER	LAB 914	–	–	2.0	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
X	1	FRIDGE	CELL CULTURE 924	–	–	5.0	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
Y	1	FRIDGE	CELL CULTURE 924	–	–	5.0	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
Z	1	-30 DEG FREEZER	FREEZER 915	–	–	12.0	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AA	1	-80 DEG FREEZER	FREEZER 915	–	–	10.5	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AB	2	INCUBATORS	CELL CULTURE 924	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AD	1	FUME HOOD	LAB 920	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AE	2	LAMINAR FLOW HOODS	CELL CULTURE 913	–	–	8.0	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AH	1	BIO SAFETY HOOD	COMMON PASSAGE 919	–	–	?	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AI	1	FRIDGE/FREEZER	MICROSCOPY 916	–	–	4.75	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AJ	1	INCUBATION MICROSCOPE	MICROSCOPY 921	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AL	1	WATER TREATMENT CARTRIDGE	MICROSCOPY 916	–	–	?	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AL	1	NEW WATER TREATMENT CARTRIDGE	MICROSCOPY 921	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AM	1	-20 DEG FREEZER	COMMON PASSAGE 919	–	–	2.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AN	1	-20 DEG FREEZER	LAB 920	–	–	2.6	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AO	1	FRIDGE	LAB 920	–	–	5.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AP	1	-20 DEG FREEZER	FREEZER 915	–	–	2.0	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AQ	1	-80 DEG FREEZER	FREEZER 915	–	–	16.0	120	1	LVEM-9	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AR	1	CENTRIFUGE	COMMON PASSAGE 919	–	–	24.0	208	1	PP924	30A/2P	(2)#10 & (1)#10G, ¾"C		6-30R							
AS	1	FUME HOOD	LAB 920	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AT	1	FUME HOOD	LAB 920	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AV	1	FRIDGE	CELL CULTURE 913	–	–	5.0	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AW	1	BIO SAFETY HOOD	CELL CULTURE 924	–	–	12.0	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AX	1	BIO SAFETY HOOD	CELL CULTURE 924	–	–	10.0	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AY	2	INCUBATORS	CELL CULTURE 913	–	–	6.3	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AZ	2	INCUBATORS	CELL CULTURE 913	–	–	6.3	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							
AZ	2	NEW INCUBATORS	CELL CULTURE 924	–	–	6.3	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5-20R							

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A. CIRCUIT ITEMS INDICATED WITH A QUESTION MARK (FOR LOCATION) TO CLOSEST AVAILABLE PANELBOARD.

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LAB EQUIPMENT ELECTRICAL SCHEDULE

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CLIENT PROJECT NO.: 2025-088	

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LAB EQUIPMENT WIRING SCHEDULE

EQUIPMENT ID	QUANTITY	DESCRIPTION	LOCATION	HORSEPOWER HP	KILOWATTS kW	FULL LOAD CURRENT FLA	VOLTS	PHASE	PANEL	CIRCUIT BREAKER	POWER & CONTROL WIRING/CONDUIT	FUSED SAFETY SWITCH	RECEPTACLE NEMA CONFIGURATION	EQUIPMENT JUNCTION BOX (BY OTHERS)	HARDWIRE	MOUNTING HEIGHT ABOVE FINISHED FLOOR	WALL	FLOOR	CEILING	NOTES
BB	1	JACKETED INCUBATOR	CELL CULTURE 913	–	–	3.6	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
BC	1	FRIDGE	CELL CULTURE 913	–	–	4.75	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
BD	1	BIO SAFETY HOOD	CELL CULTURE 913	–	–	?	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
BE	3	AUTOFILL NITROGEN STORAGE SYSTEM	FREEZER 915	–	–	?	120	1	LVEM–9	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
BF	3	SECURITY CAMERA, CLOSED CIRCUIT	C901,C902, C910	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
BG	1	GLASSWARE WASHER & DRYER	COMMON EQUIP 923	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
BH	1	GAS CUSHIONED MICROSCOPY TABLE	MICROSCOPY 916	–	–	?	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
BI	1	AUTOCLAVE W/ ELECTRIC STEAM GENERATOR	COMMON EQUIP 923	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
BL	1	DIGITAL DISPLAY SCREEN	CORR C901	–	–	?	–	–	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CB	1	ALLEGRA X–22R CENTRIFUGE	?	–	–	10.5	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CC	1	UV STRATALINKER 1800	?	–	–		120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CD	1	TMS MICROSCOPE	?	–	–		120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CE	1	WATER BATH	?	–	–		120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CF	1	MINI FRIDGE	LAB 914	–	–	1.0	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CG	1	MICROWAVE	?	–	1.1	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CH	1	PIPETTING ROBOT	LAB 914	–	–	4.0	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CI	1	(1/3) LSR FORTESSA X20 FLOW CYTOMETER	EQUIP ALCOVE 917	–	0.69	–	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CJ	1	(2/3) FACSFLOW SUPPLY SYSTEM	EQUIP ALCOVE 917	–	–	?	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CK	1	(3/3) VT550 VISCOMETER & FISHERSCI HEAT CONTROL	EQUIP ALCOVE 917	–	–	10.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CL	1	AKTA PRIME PLUS FPLC	?	–	–	1.33	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CM	1	(1/3) SAVANT RVT5105 VAPOR TRAP	LAB 914	–	–	13.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CM	1	(2/3) SAVANT SPD131DDA CONCENTRATOR	LAB 914	–	–	6.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CM	1	(3/3) OFP400 VACUUM PUMP	LAB 914	–	–	2.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CN	1	Z1 PARTICLE COUNTER	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CO	1	5810 CENTRIFUGE	?	–	0.95	11.0	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CP	1	(1996) FACSCALIBUR CELL SORTER	STORAGE 922	–	–	15.0	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CQ	1	ORBOTAL SHAKER	?	–	0.075	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CR	1	ROCKER PLATFORM	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CS	1	(VINTAGE) SCALE	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CT	1	(BURRIED) LAMINAR FLOW HOOD	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CU	1	SONIC DISMEMBRATOR	COLD 918	–	0.50	10.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CV	1	HOMOGENIZER	COLD 918	–	–	?	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CW	1	MICROSCOPE APARATUS AREA	?	–	–	4.0	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CX	1	INCU–SHAKER 10L	LAB 914	–	0.48	–	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CY	1	SORVALL BIOFUGE PRIMO R CENTRIFUGE	LAB 914	–	–	12.0	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
CZ	1	UV2 STERILIZING PCR WORKSTATION	LAB 914	–	–	1.1	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DA	1	SORVALL LEGEND x1r CENTRIFUGE	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DB	1	MODEL 10 LAB OVEN	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DC	1	UV3 HEPA PCR WORKSTATION	LAB 914	–	–	1.1	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DD	1	RECIRCULATOR	STORAGE 922	–	–	?	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DE	1	MINI FRIDGE	LAB 914	–	–	1.5	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DF	1	MICROWAVE	?	–	1.1	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DG	1	5415R CENTRIFUGE	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DH	1	MINI FRIDGE	LAB 914	–	–	1.1	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DI	1	MINI FRIDGE	LAB 914	–	–	1.1	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DJ	1	MINI FRIDGE	LAB 914	–	–	1.1	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DK	1	MINI FRIDGE	LAB 914	–	–	1.1	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DL	1	MINI FRIDGE	LAB 914	–	–	1.3	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							

GENERAL SCHEDULE NOTES:

A. CIRCUIT ITEMS INDICATED WITH A QUESTION MARK (FOR LOCATION) TO CLOSEST AVAILABLE PANELBOARD.

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LAB EQUIPMENT ELECTRICAL SCHEDULE

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KA PROJECT NO.	DATE:
2025-088	
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LAB EQUIPMENT WIRING SCHEDULE

EQUIPMENT ID	QUANTITY	DESCRIPTION	LOCATION	HORSEPOWER HP	KILOWATTS kW	FULL LOAD CURRENT FLA	VOLTS	PHASE	PANEL	CIRCUIT BREAKER	POWER & CONTROL WIRING/CONDUIT	FUSED SAFETY SWITCH	RECEPTACLE NEMA CONFIGURATION	EQUIPMENT JUNCTION BOX (BY OTHERS)	HARDWIRE	MOUNTING HEIGHT ABOVE FINISHED FLOOR	WALL	FLOOR	CEILING	NOTES
DM	1	MINI FRIDGE	LAB 914	–	–	1.3	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DN	1	GENEPULSER XCELL	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DO	1	MAXQ4000 SHAKER	LAB 914	–	1.50	14.0	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DP	1	5301 CONCENTRATOR	?	–	0.15	1.2	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DQ	1	ENVIRON–SHAKER	LAB 914	–	0.60	5.0	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DR	1	MAXQ4000 SHAKER	?	–	1.50	14.0	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DS	1	(3 PC) CENTRIVAP	LAB 914	–	–	?	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DT	1	OBSERVER D1 MICROSCOPE	MICROSCOPY 921	–	–	10.0	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DU	1	MED 64 MICROELECTRODE SYSTEM W/LAPTOP	?	–	–	1.35	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DV	1	DIAPHOT MICROSCOPE W/LAMP	MICROSCOPY 921	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DW	1	FOTO/PREP I	?	–	–	1.7	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DX	1	EC3 IMAGING SYSTEM	STORAGE 922	–	–	3.2	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DY	1	CX MICROSCOPE	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
DZ	1	ALLEGRA X–14R CENTRIFUGE	CELL CULTURE 913	–	–	?	120	1	PP925	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EA	1	HEAT BATH	LAB 920	–	–	?	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EB	1	(4 PC) ROTAVAPOR R–300, HEATING BATH B–300 BASE	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EC	1	(DISASSEMBLED) (4 PC) ROTOVAP APPARATUS	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
ED	1	WATER BATH?	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EE	1	PROBE STATION?	COLD 918	–	–	?	120	1	PP924	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EF	1	TISSUE BATH APPARATUS	LAB 920	–	–	0.7	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EG	1	3343 TENSILE TESTER	LAB 920	–	–	1.7	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EH	1	CHEMIDOC IMAGING SYSTEM	LAB 920	–	0.12	–	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EI	1	VARIABLE SPEED ROCKER	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EJ	1	MINI FRIDGE	LAB 920	–	–	0.90	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EK	1	C1000 THERMAL CYCLER & CFX 96 REAL TIME SYSTEM	?	–	–	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EL	1	C1000 THERMAL CYCLER & CFX 96 REAL TIME SYSTEM	?	–	–	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EM	1	ORBITAL SHAKER	?	–	–	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EN	1	EpMOTION 5070 PIPETTING ROBOT	LAB 920	–	0.15	–	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EO	1	NONOBLOT STATION W/POLYSCIENCE CIRCULATOR	LAB 920	–	–	7.0	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EP	1	SEAHORSE XFe96 ANALYZER	LAB 920	–	–	6.0	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EQ	1	SYNERGY 4 PLATE READER	?	–	0.25	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
ER	1	5430 CENTRIFUGE	?	–	–	?	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
ES	1	MICROWAVE	?	–	1.50	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
ET	1	C1000 THERMAL CYCLER	?	–	0.85	–	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EU	1	MyiQ PCR SYSTEM	?	–	–	7.6	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EV	1	LAB OVEN	LAB 920	–	0.90	7.5	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EW	1	EG1160 TISSUE EMBEDDING SYSTEM	LAB 920	–	–	6.7	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EX	1	RM2155 MICROTOME	LAB 920	–	–	2.85	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EY	1	NCL150 MICROSCOPE W/LAMP HOUSE	LAB 920	–	0.20	–	120	1	PP919	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
EZ	1	SMARTSPEC 3000	?	–	–	0.55	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							
FA	1	–20 DEG FREEZER	?	–	–	2.0	120	1	?	20A/1P	(2)#12 & (1)#12G, ¾"C		5–20R							

GENERAL SCHEDULE NOTES:

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LAB EQUIPMENT ELECTRICAL SCHEDULE

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No.	DATE	DESCRIPTION

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2025-088 — CLIENT PROJECT NO.	

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PANEL SCHEDULE

PANEL: HLP-9 (SECTION 1) VOLTS: 480/277 PHASE: 3 WIRE: 4

MAIN RATING: 400 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: FEED-THRU LUGS LOCATION: SERVICE CORRIDOR 925

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	EXISTING CORRIDOR LIGHTS	#12	20	↓			20	#12	EXISTING LIGHTS 903-908	2
3	EXISTING LAV LIGHTS	#12	20		↓		20	#12	EXISTING LIGHTS 903-908	4
5	EXISTING CONVECTOR RM 902 WEST HEATER	#12	20			↓	20	#12	EXISTING LIGHTS 903-908	6
7	EXISTING CONVECTOR 901 WEST	#12	20	↓			20	#12	EXISTING HEAT RM 903	8
9	EXISTING HEAT RM 902	#12	20		↓		20	#12	EXISTING HEAT RM 902	10
11	EXISTING HEAT RM 902	#12	20			↓	20	#12	EXISTING STAIRWELL HEATER	12
13				↓						14
15	EXISTING EAST STAIRWELL HEATER	#10	30		↓		30	#10	EXISTING WEST STAIRWELL HEATER	16
17						↓				18
19	LIGHTS	#12	20	↓			20	#12	LIGHTS	20
21	LIGHTS	#12	20		↓		20	#12	LIGHTS	22
23	LIGHTS	#12	20			↓	20	#12	LIGHTS	24
25	SPARE	–	20	↓			20	–	SPARE	26
27	SPARE	–	20		↓		20	–	SPARE	28
29	SPARE	–	20			↓	20	–	SPARE	30
31	SPARE	–	20	↓			20	–	SPARE	32
33	SPARE	–	20		↓		20	–	SPARE	34
35	SPACE	–	–			↓	–	–	SPACE	36
37	SPACE	–	–	↓			–	–	SPACE	38
39	SPACE	–	–		↓		–	–	SPACE	40
41	SPACE	–	–			↓	–	–	SPACE	42

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
2. RECONNECT ALL EXISTING BRANCH CIRCUITS TO CORRESPONDING CIRCUIT BREAKER.
3. PROVIDE GROUND WIRE IN ALL NEW CIRCUITS. SIZED PER NEC.
4. REASSIGN BREAKER DESIGNATIONS FOR NEW LOADS WHERE MADE AVAILABLE BY DEMOLITION.

PANEL SCHEDULE

PANEL: HLP-9 (SECTION 2) VOLTS: 480/277 PHASE: 3 WIRE: 4

MAIN RATING: 400 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: LOCATION: SERVICE CORRIDOR 925

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	TERMINAL UNIT TU-901	#12	20	↓			20	#12	TERMINAL UNIT TU-902	2
3	TERMINAL UNIT TU-903	#12	20		↓		20	#12	TERMINAL UNIT TU-904	4
5	TERMINAL UNIT TU-905	#12	20			↓	20	#12	TERMINAL UNIT TU-906	6
7	TERMINAL UNIT TU-907	#12	20	↓			25	#10	TERMINAL UNIT TU-908	8
9	TERMINAL UNIT TU-909	#12	20		↓		25	#10	TERMINAL UNIT TU-910	10
11	TERMINAL UNIT TU-911	#12	20			↓	20	#12	TERMINAL UNIT TU-912	12
13	TERMINAL UNIT TU-913	#12	20	↓			20	#12	TERMINAL UNIT TU-914	14
15	SPARE	–	20		↓		20	–	SPARE	16
17	SPARE	–	20			↓	20	–	SPARE	18
19	SPARE	–	20	↓			20	–	SPARE	20
21	SPARE	–	20		↓		20	–	SPARE	22
23	SPARE	–	20			↓	20	–	SPARE	24
25	SPACE	–	–	↓			–	–	SPACE	26
27	SPACE	–	–		↓		–	–	SPACE	28
29	SPACE	–	–			↓	–	–	SPACE	30
31	SPACE	–	–	↓			–	–	SPACE	32
33	SPACE	–	–		↓		–	–	SPACE	34
35	SPACE	–	–			↓	–	–	SPACE	36
37	SPACE	–	–	↓			–	–	SPACE	38
39	SPACE	–	–		↓		–	–	SPACE	40
41	SPACE	–	–			↓	–	–	SPACE	42

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
2. RECONNECT ALL EXISTING BRANCH CIRCUITS TO CORRESPONDING CIRCUIT BREAKER.
3. PROVIDE GROUND WIRE IN ALL NEW CIRCUITS. SIZED PER NEC.
4. REASSIGN BREAKER DESIGNATIONS FOR NEW LOADS WHERE MADE AVAILABLE BY DEMOLITION.

PANEL SCHEDULE

PANEL: LVEM-9 VOLTS: 208/120 PHASE: 3 WIRE: 4

MAIN RATING: 100 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: – LOCATION: SERVICE CORRIDOR 925

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	FREEZER A	#12	20	↓			20	#12	FREEZER B	2
3					↓					4
5	FREEZER C	#12	20			↓	20	#12	FREEZER H	6
7	FREEZER I	#12	20	↓			20	#12	FREEZER J	8
9	FREEZER W	#12	20		↓		20	#12	FREEZER Z	10
11	FREEZER AA	#12	20			↓	20	#12	FREEZER AP	12
13	FREEZER AQ	#12	20	↓			20	#12	FREEZER BE	14
15	SPARE	–	20		↓		20	–	SPARE	16
17	SPARE	–	20			↓	20	–	SPARE	18
19	SPARE	–	20	↓			20	–	SPARE	20
21	SPARE	–	20		↓		20	–	SPARE	22
23	SPARE	–	20			↓	20	–	SPARE	24
25	SPARE	–	20	↓			20	–	SPARE	26
27	SPARE	–	20		↓		20	–	SPARE	28
29	SPARE	–	20			↓	20	–	SPARE	30

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
2. RECONNECT ALL EXISTING BRANCH CIRCUITS TO CORRESPONDING CIRCUIT BREAKER.
3. PROVIDE GROUND WIRE IN ALL NEW CIRCUITS. SIZED PER NEC.
4. REASSIGN BREAKER DESIGNATIONS FOR NEW LOADS WHERE MADE AVAILABLE BY DEMOLITION.

PANEL SCHEDULE

PANEL: PP924 VOLTS: 208/120 PHASE: 3 WIRE: 4

MAIN RATING: 225 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: – LOCATION: CORRIDOR C910

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	FUME HOOD AH	#12	20	↓			20	#12	OVERHEAD SERVICE CARRIER	2
3	BIO SAFETY CABINET	#12	20		↓		20	#12	OVERHEAD SERVICE CARRIER	4
5	OVERHEAD SERVICE CARRIER	#12	20			↓	20	#12	OVERHEAD SERVICE CARRIER	6
7	OVERHEAD SERVICE CARRIER	#12	20	↓			20	#12	OVERHEAD SERVICE CARRIER	8
9	OVERHEAD SERVICE CARRIER	#12	20		↓		20	#12	OVERHEAD SERVICE CARRIER	10
11	OVERHEAD SERVICE CARRIER	#12	20			↓	20	#12	OVERHEAD SERVICE CARRIER	12
13	OVERHEAD SERVICE CARRIER	#12	20	↓			20	#12	MULTI-OUTLET ASSEMBLY	14
15	OVERHEAD SERVICE CARRIER	#12	20		↓		20	#12	RECEPTACLES	16
17	RECEPTACLES	#12	20			↓	20	#12	RECEPTACLES	18
19	RECEPTACLES	#12	20	↓			20	#12	RECEPTACLES	20
21	RECEPTACLES	#12	20		↓		20	#12	AN, AO	22
23	CU, CV, EE	#12	20			↓	20	#12	CI, CJ, CK	24
25	DX	#12	20	↓			20	#12	F	26
27	AR	#10	30		↓		20	#12	U	28
29						↓	20	#12	AM	30
31	AL	#12	20	↓			20	#12	AI	32
33	BH	#12	20		↓		20	–	SPARE	34
35	SPARE	–	20			↓	20	–	SPARE	36
37	SPARE	–	20	↓			20	–	SPARE	38
39	SPARE	–	20		↓		20	–	SPARE	40
41	SPARE	–	20			↓	20	–	SPARE	42
43	SPARE	–	20	↓			–	–	SPACE	44
45	SPACE	–	–		↓		–	–	SPACE	46
47	SPACE	–	–			↓	–	–	SPACE	48
49	SPACE	–	–	↓			–	–	SPACE	50
51	SPACE	–	–		↓		–	–	SPACE	52
53	SPACE	–	–			↓	–	–	SPACE	54

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
2. RECONNECT ALL EXISTING BRANCH CIRCUITS TO CORRESPONDING CIRCUIT BREAKER.
3. PROVIDE GROUND WIRE IN ALL NEW CIRCUITS. SIZED PER NEC.
4. REASSIGN BREAKER DESIGNATIONS FOR NEW LOADS WHERE MADE AVAILABLE BY DEMOLITION.

PANEL SCHEDULE

PANEL: PPEM-9 VOLTS: 480/277 PHASE: 3 WIRE: 4

MAIN RATING: 100 AMPS MCB: – AMPS MIN AIC RATING: 14KAIC AMPS RMS SYM.

MOUNTING: SURFACE OTHER: – LOCATION: SERVICE CORRIDOR 925

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1				↓						2
3	SPARE	–	30		↓		30	#10	PANEL LPEM-9/TRANSFORMER T-9A	4
5						↓				6
7				↓			20	#12	EMERGENCY LIGHTING	8
9	SPARE	–	30		↓		20	#12	EMERGENCY LIGHTING	10
11						↓	20	#12	EMERGENCY LIGHTING	12
13	SPARE	–	20	↓			20	–	SPARE	14
15	SPARE	–	20		↓		20	–	SPARE	16
17	SPARE	–	20			↓	20	–	SPARE	18
19	SPARE	–	20	↓			20	–	SPARE	20
21	SPARE	–	20		↓		20	–	SPARE	22
23	SPACE	–	–			↓	–	–	SPACE	24
25	SPACE	–	–	↓			–	–	SPACE	26
27	SPACE	–	–		↓		–	–	SPACE	28
29	SPACE	–	–			↓	–	–	SPACE	30
31	SPACE			↓					SPACE	32
33	SPACE	–	–		↓		–	–	SPACE	34
35	SPACE	–	–			↓	–	–	SPACE	36
37	SPACE	–	–	↓			–	–	SPACE	38
39	SPACE	–	–		↓		–	–	SPACE	40
41	SPACE	–	–			↓	–	–	SPACE	42

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
2. RECONNECT ALL EXISTING BRANCH CIRCUITS TO CORRESPONDING CIRCUIT BREAKER.
3. PROVIDE GROUND WIRE IN ALL NEW CIRCUITS. SIZED PER NEC.
4. REASSIGN BREAKER DESIGNATIONS FOR NEW LOADS WHERE MADE AVAILABLE BY DEMOLITION.

PANEL SCHEDULE

PANEL: LVEM-9 VOLTS: 208/120 PHASE: 3 WIRE: 4

MAIN RATING: 100 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: – LOCATION: SERVICE CORRIDOR 925

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1				↓						2
3	CHAMBER ROOM	#10	30		↓		30	–	SPARE	4
5						↓				6
7				↓						8
9	CHAMBER ROOM	#10	30		↓		30	–	SPARE	10
11						↓				12
13	CHAMBER ROOM	#12	20	↓			20	–	SPARE	14
15	CHAMBER ROOM	#12	20		↓		20	–	SPARE	16
17	CHAMBER ROOM	#12	20			↓	20	–	SPARE	18
19	CHAMBER ROOM	#12	20	↓			20	–	SPARE	20
21	SPARE	–	20		↓		20	–	SPARE	22
23	SPARE	–	20			↓	–	–	SPACE	24
25	SPARE	–	20	↓			–	–	SPACE	26
27	SPARE	–	20		↓		–	–	SPACE	28
29	SPARE	–	20			↓	–	–	SPACE	30
31	SPACE	–	–	↓			–	–	SPACE	32
33	SPACE	–	–		↓		–	–	SPACE	34
35	SPACE	–	–			↓	–	–	SPACE	36
37	SPACE	–	–	↓			–	–	SPACE	38
39	SPACE	–	–		↓		–	–	SPACE	40
41	SPACE	–	–			↓	–	–	SPACE	42

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
2. RECONNECT ALL EXISTING BRANCH CIRCUITS TO CORRESPONDING CIRCUIT BREAKER.
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4. REASSIGN BREAKER DESIGNATIONS FOR NEW LOADS WHERE MADE AVAILABLE BY DEMOLITION.

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ELECTRICAL PANELBOARD SCHEDULES

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PANEL SCHEDULE

PANEL: PP919 (SECTION 1) VOLTS: 208/120 PHASE: 3 WIRE: 4

MAIN RATING: 225 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: – LOCATION: CORRIDOR C902

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	BIO SAFETY HOOD AX	#12	20				20	#12	OVERHEAD SERVICE CARRIER	2
3	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	4
5	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	6
7	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	8
9	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	10
11	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	12
13	OVERHEAD SERVICE CARRIER	#12	20				20	#12	RECEPTACLES	14
15	RECEPTACLES	#12	20				20	#12	RECEPTACLES	16
17	RECEPTACLES	#12	20				20	#12	RECEPTACLES	18
19	RECEPTACLES	#12	20				20	#12	AX	20
21	AW	#12	20				20	#12	DT	22
23	CP	#12	20				20	#12	BF	24
25	AB (TWO ITEMS)	#12	20				20	#12	AZ NEW	26
27	NEW AL, AJ, DV	#12	20				20	#12	DD & DX	28
29	S (TWO ITEMS)	#12	20				20	#12	R & T	30
31	X & Y	#12	20				20	#12	BI	32
33	BG	#12	20				20	#12	FUME HOOD AS	34
35	FUME HOOD AD	#12	20				20	#12	FUME HOOD AT	36
37	SPARE	–	20				20	–	SPARE	38
39	SPARE	–	20				20	–	SPARE	40
41	SPARE	–	20				20	–	SPARE	42
43	SPARE	–	20				20	–	SPARE	44
45	SPARE	–	20				20	–	SPARE	46
47	SPACE	–	–				–	–	SPACE	48
49	SPACE	–	–				–	–	SPACE	50
51	SPACE	–	–				–	–	SPACE	52
53	SPACE	–	–				–	–	SPACE	54

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
2. RECONNECT ALL EXISTING BRANCH CIRCUITS TO CORRESPONDING CIRCUIT BREAKER.
3. PROVIDE GROUND WIRE IN ALL NEW CIRCUITS. SIZED PER NEC.
4. REASSIGN BREAKER DESIGNATIONS FOR NEW LOADS WHERE MADE AVAILABLE BY DEMOLITION.

PANEL SCHEDULE

PANEL: PP919 (SECTION 2) VOLTS: 208/120 PHASE: 3 WIRE: 4

MAIN RATING: 225 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: – LOCATION: CORRIDOR C902

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	BIO SAFETY CABINET	#12	20				20	#12	OVERHEAD SERVICE CARRIER	2
3	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	4
5	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	6
7	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	8
9	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	10
11	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	12
13	OVERHEAD SERVICE CARRIER	#12	20				20	#12	MULTI–OUTLET ASSEMBLY	14
15	RECEPTACLES	#12	20				20	#12	RECEPTACLES	16
17	RECEPTACLES	#12	20				20	#12	RECEPTACLES	18
19	RECEPTACLES	#12	20				20	#12	RECEPTACLES	20
21	SPARE	–	20				20	–	SPARE	22
23	SPARE	–	20				20	–	SPARE	24
25	SPARE	–	20				20	–	SPARE	26
27	SPARE	–	20				20	–	SPARE	28
29	SPARE	–	20				20	–	SPARE	30
31	SPACE	–	–				–	–	SPACE	32
33	SPACE	–	–				–	–	SPACE	34
35	SPACE	–	–				–	–	SPACE	36
37	SPACE	–	–				–	–	SPACE	38
39	SPACE	–	–				–	–	SPACE	40
41	SPACE	–	–				–	–	SPACE	42
43	SPACE	–	–				–	–	SPACE	44
45	SPACE	–	–				–	–	SPACE	46
47	SPACE	–	–				–	–	SPACE	48
49	SPACE	–	–				–	–	SPACE	50
51	SPACE	–	–				–	–	SPACE	52
53	SPACE	–	–				–	–	SPACE	54

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
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3. PROVIDE GROUND WIRE IN ALL NEW CIRCUITS. SIZED PER NEC.
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PANEL SCHEDULE

PANEL: PP918 VOLTS: 208/120 PHASE: 3 WIRE: 4

MAIN RATING: 225 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: – LOCATION: CORRIDOR C902

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	EXISTING RECEPTACLES RMS 903, 904	#12	20				20	#12	EXISTING RECEPTACLES RMS 905, 907, 907	2
3	EXISTING RECEPTACLES RMS 906, 907, 908	#12	20				20	#12	WORKROOM FURNITURE RECEPTACLES	4
5	WORKROOM FURNITURE RECEPTACLES	#12	20				20	#12	WORKROOM FURNITURE RECEPTACLES	6
7	WORKROOM FURNITURE RECEPTACLES	#12	20				20	#12	WORKROOM FURNITURE RECEPTACLES	8
9	WORKROOM FURNITURE RECEPTACLES	#12	20				20	#12	WORKROOM FURNITURE RECEPTACLES	10
11	RECEPTACLES	#12	20				20	#12	RECEPTACLES	12
13	RECEPTACLES	#12	20				20	#12	RECEPTACLES	14
15	ACCESS CONTROL	#12	20				20	–	SPARE	16
17	SPARE	–	20				20	–	SPARE	18
19	SPARE	–	20				20	–	SPARE	20
21	SPARE	–	20				20	–	SPARE	22
23	SPARE	–	20				20	–	SPARE	24
25	SPACE	–	–				–	–	SPACE	26
27	SPACE	–	–				–	–	SPACE	28
29	SPACE	–	–				–	–	SPACE	30
31	SPACE	–	–				–	–	SPACE	32
33	SPACE	–	–				–	–	SPACE	34
35	SPACE	–	–				–	–	SPACE	36
37	SPACE	–	–				–	–	SPACE	38
39	SPACE	–	–				–	–	SPACE	40
41	SPACE	–	–				–	–	SPACE	42
43	SPACE	–	–				–	–	SPACE	44
45	SPACE	–	–				–	–	SPACE	46
47	SPACE	–	–				–	–	SPACE	48
49	SPACE	–	–				–	–	SPACE	50
51	SPACE	–	–				–	–	SPACE	52
53	SPACE	–	–				–	–	SPACE	54

NOTES:
1. PROVIDE ALL BREAKER INDICATED.
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PANEL SCHEDULE

PANEL: PP925 VOLTS: 208/120 PHASE: 3 WIRE: 4

MAIN RATING: 225 AMPS MCB: – AMPS MIN AIC RATING: – AMPS RMS SYM.

MOUNTING: SURFACE OTHER: – LOCATION: CORRIDOR C910

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	TRIP	PHASE A	PHASE B	PHASE C	TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	LAMINAR FLOW HOOD AE1	#12	20				20	#12	LAMINAR FLOW HOOD AE2	2
3	BIO SAFETY HOOD BD	#12	20				20	#12	OVERHEAD SERVICE CARRIER	4
5	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	6
7	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	8
9	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	10
11	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	12
13	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	14
15	OVERHEAD SERVICE CARRIER	#12	20				20	#12	OVERHEAD SERVICE CARRIER	16
17	RECEPTACLES	#12	20				20	#12	RECEPTACLES	18
19	RECEPTACLES	#12	20				20	#12	RECEPTACLES	20
21	RECEPTACLES	#12	20				20	#12	RECEPTACLES	22
23	AV & BC	#12	20				20	#12	G	24
25	K	#12	20				20	#12	DZ	26
27	AY (TWO ITEMS)	#12	20				20	#12	AZ (TWO ITEMS)	28
29	E	#12	20				20	#12	BB	30
31	SPARE	–	20				20	#12	V	32
33	SPARE	–	20				20	–	SPARE	34
35	SPARE	–	20				20	–	SPARE	36
37	SPARE	–	20				20	–	SPARE	38
39	SPARE	–	20				20	–	SPARE	40
41	SPACE	–	–				–	–	SPACE	42
43	SPACE	–	–				–	–	SPACE	44
45	SPACE	–	–				–	–	SPACE	46
47	SPACE	–	–				–	–	SPACE	48
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53	SPACE	–	–				–	–	SPACE	54

NOTES:
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ELECTRICAL PANELBOARD SCHEDULES

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ELECTRICAL ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BKR	BREAKER
C	CONDUIT
Cu	COPPER
ETR	EXISTING TO REMAIN
G, GND	GROUND
GFI	GROUND FAULT INTERRUPTER
KAIC	THOUSAND AMPERE INTERRUPTING CURRENT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
NL	NIGHT LIGHT
P	POLE
V	VOLT
W	WIRE
TBR	TO BE REMOVED
EM	EMERGENCY CIRCUIT

ELECTRICAL SYMBOL LIST

———	SOLID LIGHT LINEWORK INDICATES EXISTING TO REMAIN
– – – – –	DASHED LIGHT LINEWORK INDICATES EXISTING TO BE REMOVED
———	SOLID HEAVY LINEWORK INDICATES NEW
———►	BRANCH CIRCUIT TO POWER SOURCE. CIRCUIT USING 2#12, 1#12G, 3/4"C UNLESS OTHERWISE INDICATED.
———	BRANCH WIRING SAME AS ASSOCIATED BRANCH WIRING TO POWER SOURCE UNLESS OTHERWISE INDICATED.
——5——	CAT 5 LIGHTING CONTROL CABLE
A	LUMINAIRE. LETTER INDICATES TYPE. REFER TO LUMINAIRE SCHEDULE ON DRAWING E900.
A	LUMINAIRE POWERED BY EMERGENCY LIFE SAFETY CIRCUIT.
	EXIT LUMINAIRE. REFER TO LUMINAIRE SCHEDULE ON DRAWING E900. DIRECTIONAL ARROW AS INDICATED
VS	CEILING MOUNTED VACANCY SENSOR (MANUAL ON/AUTO OFF)
	CEILING MOUNTED OCCUPANCY SENSOR (AUTO ON/AUTO OFF)
$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
$(5)	FIVE BUTTON SCENE SWITCH
LRC	LIGHTING ROOM CONTROLLER
ELCU	EMERGENCY LIGHTING CONTROL UNIT
LRC2	TWO–RELAY ROOM CONTROLLER
LRC3	THREE–RELAY ROOM CONTROLLER
	PANELBOARD 120/208 VOLT
	PANELBOARD 277/480 VOLT
TU	MOTOR/ELECTRICAL EQUIPMENT. LETTERS INDICATE ITEM. REFER TO EQUIPMENT SCHEDULE.
	DUPLEX CONVENIENCE WIRING DEVICE
	QUAD CONVENIENCE WIRING DEVICE
	MULTI–RECEPTACLE PLUG STRIP
J	JUNCTION BOX
FA SP	FIRE ALARM CEILING MOUNTED SPEAKER/STROBE. 15 CANDELA RATING UNLESS NOTED OTHERWISE 0.5 WATT UNLESS NOTED OTHERWISE
FD S	FIRE ALARM SMOKE DETECTOR, AREA TYPE
FD S DT	FIRE ALARM SMOKE DETECTOR, DUCT TYPE WITH SAMPLING TUBE
CO	CARBON MONOXIDE DETECTOR
#	WALL DATA OUTLET WITH (2) JACKS AND (2) CAT 6A CABLES (UNLESS OTHERWISE NOTED WITH ALTERNATE QUANTITY INDICATED) TO NEW DATA RACK/PATCH PANEL IN SERVICE CORRIDOR 925.
WAP	WIRELESS ACCESS POINT WITH (1) CAT 6A CABLE TO NEW DATA RACK/PATCH PANEL IN SERVICE CORRIDOR 925.
CR	ACCESS CONTROL CARD READER
CAM	SECURITY CAMERA WITH (1) CAT 6A CABLE TO NEW DATA RACK/PATCH PANEL IN SERVICE CORRIDOR 925 (BY OWNER).

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