VIRGINIA COMMONWEALTH UNIVERSITY

SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

PC:236-B2236-038

OWNER / CLIENT

VIRGINIA COMMONWEALTH UNIVERSITY
700 W. GRACE ST. SUITE 1500
RICHMOND, VA 23284
804.828.7080
CONTACT: KAREN NICELY

COST ESTIMATION

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OAKBROOK TERRACE, IL 60181
800.443.8607
CONTACT: WOODY SANNER

STRUCTURAL ENGINEER

DUNBAR STRUCTURAL
1025 BOULDERS PARKWAY, SUITE 310
RICHMOND, VA 23225
804.495.2274
CONTACT: A.J. RICKEL

ARCHITECTURE / INTERIORS / MEP

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RICHMOND, VA 23218-0400
804.343.1010
WWW.BASKERVILL.COM
CONTACT: JESSIE WALTON

FIRE PROTECTION

FISHER ENGINEERING
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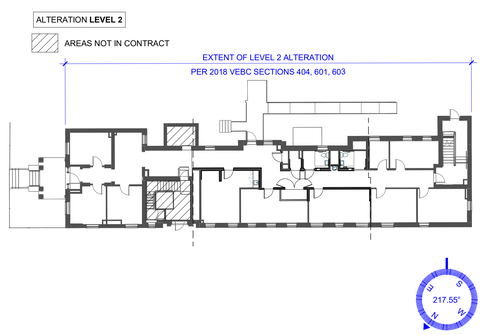
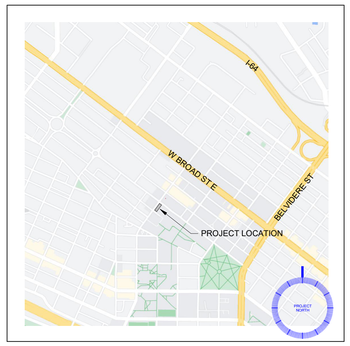
VIRGINIA BEACH, VA 23462
757.276.1272
CONTACT: BRIAN CARNAZZA

ALTERATION LEVEL KEY PLAN



VICINITY MAP

LOCATION MAP



DESCRIPTION OF WORK

THE EXISTING 17,000 SF BRICK BUILDING BUILT IN 1910 UNDERWENT AN INTERIOR RENOVATION IN 1989. SINCE 1989, LEVELS 1 THROUGH 5 WITHIN THE CENTER PORTION OF THE BUILDING HAVE STARTED TO SAG. THE PRIMARY SCOPE OF THIS WORK IS TO CORRECT THE FLOOR LEVELNESS ISSUES BY JACKING AND SHORING THE EXISTING FLOOR SYSTEM. SINCE SELECTIVE DEMOLITION OF INTERIOR WALLS WILL BE REQUIRED FOR THE STRUCTURAL WORK, VCU HAS ELECTED TO UPGRADE THE EXISTING 2-PIPE DUAL TEMPERATURE SYSTEM TO A 4-PIPE HEATING AND COOLING SYSTEM WHICH WILL REQUIRE FUTHER DEMOLITION OUTSIDE THE STRUCTURAL WORK EXTENTS. ALL FINISHES WILL BE "PUT-BACK" TO MATCH EXISTING WHEN THE WORK IS COMPLETE.

ALL RENOVATION WORK IS A LEVEL 2 ALTERATION PER 2018 VEBC.

THERE IS NO EXTERIOR SCOPE.

GENERAL NOTES

DEFINITION: THE TERM "DESIGN PROFESSIONAL" MEANS "ARCHITECT", "PROFESSIONAL ENGINEER", "INTERIOR DESIGNER" OR OTHER PARTY RESPONSIBLE FOR PROVIDING DESIGN SERVICES AS APPROPRIATE.

1. VERIFY ALL EXISTING CONDITIONS.
2. CONTRACTOR TO MAINTAIN EGRESS ROUTES FROM EXISTING BUILDING THROUGHOUT THE COURSE OF CONSTRUCTION.
3. VERTICAL DIMENSIONS ARE FROM "FLOOR LINE" UNLESS OTHERWISE NOTED. REFER TO ELEVATIONS FOR "FLOOR LINE" DATUMS.
4. HORIZONTAL DIMENSIONS FOR NEW CONSTRUCTION ARE FROM FACE OF FINISH UNLESS OTHERWISE NOTED. HORIZONTAL DIMENSIONS FOR EXISTING CONSTRUCTION ARE FROM FACE OF EXISTING FINISHED SURFACE.
5. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT WITH THE DESIGN PROFESSIONAL TO OBTAIN CLARIFICATION BEFORE CONTINUING WITH CONSTRUCTION.
6. HOLES CUT THROUGH EXISTING OR NEW FIRE RATED CONSTRUCTION FOR INSTALLATION OF PIPING, DUCTWORK, OR OTHER PENETRATIONS SHALL BE KEPT TO A MINIMUM NUMBER AND HELD TO A MINIMUM SIZE. FILL VOIDS BETWEEN PIPES, DUCTS, OTHER PENETRATING ITEMS AND RATED CONSTRUCTION WITH FIRE RETARDANT SEALANT SYSTEM LISTED IN THE UL FIRE RESISTANCE DIRECTORY WITH FIRE (F) AND TEMPERATURE (T) RATINGS EQUAL TO OR GREATER THAN THE FIRE RESISTANCE RATING OF THE ASSEMBLY BEING SEALED.
7. ALIGN NEW FLOOR FINISHES WITH EXISTING ADJACENT FLOOR FINISHES UNLESS OTHERWISE INDICATED. WHERE NEW AND EXISTING FINISHED SURFACES ARE INDICATED TO BE ALIGNED, INSTALL SO FINISHED SURFACES ARE FLUSH (FEATHER MAXIMUM 1/8" PER FOUR FEET).
8. IT IS UNDERSTOOD AND AGREED THAT DRAWING REFINEMENTS, ADDITIONAL DETAILING AND CLARIFICATIONS WILL BE ISSUED DURING THE CONSTRUCTION SCHEDULE AND NO ADJUSTMENT WILL BE MADE IN THE CONTRACTORS' OR SUB-CONTRACTORS' PRICE UNLESS SUCH REFINEMENT, DETAILING OR CLARIFICATIONS RESULT IN CHANGES TO THE SCOPE, QUALITY, FUNCTION AND OR INTENT OF THE DRAWINGS AND THE PROJECT MANUAL NOT REASONABLY INFERABLE BY A CONTRACTOR OR SUB-CONTRACTOR EXPERIENCED IN THIS TYPE OF WORK.
9. ALL CONTRACTORS AND SUB-CONTRACTORS MUST QUOTE ON COMPLETED, FULLY OPERABLE SYSTEMS BASED ON THE DESIGN INTENT OF THE CONTRACT DOCUMENTS, AND ALL MATERIAL AND LABOR IMPLIED THEREFROM.
10. UNLESS OTHERWISE REQUIRED BY THE OWNER, CONSTRUCTION ADMINISTRATION SERVICES WILL BE COMPLETED USING NEWFORMA PROJECT CENTER. REFERENCE DIVISION 1 OF THE SPECIFICATIONS FOR THE PROCEDURES FOR REQUESTS FOR INFORMATION AND SUBMITTALS.
11. REMOVE AND REINSTALL ALL COVER PLATES IN SAME LOCATION.
12. REMOVE AND REINSTALL ALL THRESHOLD IN SAME LOCATION.
13. REMOVE AND REINSTALL ALL INTERIOR BUILDING SIGNAGE IN SAME LOCATION.
14. **CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING EXISTING FURNITURE IN A SAFE AND CONDITIONED SPACE DURING CONSTRUCTION. COORDINATE WITH THE OWNER FOR RE-INSTALLATION OF FURNITURE.**

ABATEMENT NOTES

DUE TO THE ORIGINAL CONSTRUCTION DATE AND AGE OF THIE STRUCTURE DESCRIBED WITHIN THIS RENOVATION PROJECT'S SCOPE OF WORK, A HAZARDOUS MATERIAL SURVEY BY A QUALIFIED LICENSED PROFESSIONAL FOLLOWING THE EPA, NIOSH, AND ASTM METHODOLOGIES AND STANDARDS SHALL BE CONDUCTED BY THE OWNER / GC COORDINATION BETWEEN THE LICENSED INSPECTING PROFESSIONAL AND THE LOCAL AHJ IS REQUIRED TO ENSURE ALL LOCAL REQUIREMENTS OF TESTING, REPORTING, AND RECOMMENDED ABATMENT PROCEDURES ARE IDENTIFIED AND MET, AND ALL RELATED DOCUMENTATION IS TO BE SUBMITTED AS PER THE LOCAL AHJ'S CRITERIA.

TOBACCO FREE WORKZONE NOTES

USE OF TOBACCO PRODUCTS IS NOT PERMITTED ANYWHERE ON OWNER'S PROPERTY. PROHIBIT USE OF ALL TOBACCO PRODUCTS, INCLUDING BUT NOT LIMITED TO CIGARETTES, CIGARS, PIPES, CHEWING TOBACCO, SNUFF, DIP, SNUS AND ELECTRONIC CIGARETTES BY ALL PERSONNEL COVERED BY THIS CONTRACT WHILE ON OWNER'S PROPERTY. THIS PROHIBITION APPLIES TO OCCUPANTS OF JOBSITE OFFICES, STORAGE OR WORK SHEDS, WORK AREAS ASSIGNED EXCLUSIVELY TO THE CONTRACTOR, AND VEHICLES WHILE THE VEHICLE IS ON OWNER'S PROPERTY. ENFORCE REQUIREMENTS STRICTLY.

ASBESTOS DISCLOSURE NOTE

THE BUILDING UNDERWENT A FULL RENOVATION IN 1989, THEREFORE THE AGENCY HAS INDICATED THAT THEY DO NOT BELIEVE ASBESTOS IS PRESENT IN THE AREA OF PROJECT WORK. HOWEVER, THE AGENCY WILL PERFORM AN ASBESTOS SURVEY FOR THE AREA OF WORK. IF ASBESTOS IS FOUND AND WILL BE DISTURBED BY THE PROJECT WORK, IT WILL BE ABATED BY A LICENSED CONTRACTOR AS PART OF THE CURRENT CONTRACT.

LEAD PAINT DISCLOSURE NOTE

THE BUILDING UNDERWENT A FULL RENOVATION IN 1989, THEREFORE THE AGENCY HAS INDICATED THAT THEY DO NOT BELIEVE LEAD PAINT IS PRESENT IN THE AREA OF PROJECT WORK. HOWEVER, THE AGENCY WILL PERFORM A LEAD PAINT SURVEY FOR THE AREA OF WORK. IF LEAD PAINT IS FOUND AND WILL BE DISTURBED BY THE PROJECT WORK, IT WILL BE ABATED BY A LICENSED CONTRACTOR AS PART OF THE CURRENT CONTRACT.

HPBA - COMPLIANCE STATEMENT

IN ACCORD WITH THE HIGH PERFORMANCE BUILDINGS ACT, THE BUILDING IS EXEMPT FROM COMPLIANCE BECAUSE THE COST OF THE RENOVATIONS DOES NOT EXCEED 50% OF THE VALUE OF THE BUILDING.

DESIGN RESPONSIBILITY NOTES

1. THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE LIMITED TO THE DESIGN SERVICES CONVEYED WITHIN THE CONTRACT DOCUMENTS.
   THESE DESIGN SERVICES ARE LIMITED TO:
   A. ARCHITECTURAL DESIGN
   B. INTERIOR DESIGN
   C. MECHANICAL ENGINEERING DESIGN
   D. ELECTRICAL ENGINEERING DESIGN
   E. FIRE PROTECTION ENGINEERING
   F. STRUCTURAL ENGINEERING DESIGN
2. EXCLUDED SERVICES ARE, BUT NOT LIMITED TO, THE FOLLOWING:
   A. GEOTECHNICAL ENGINEERING
   B. CIVIL ENGINEERING
   C. LANDSCAPE DESIGN
   D. COST ESTIMATION
   E. PLUMBING ENGINEERING DESIGN

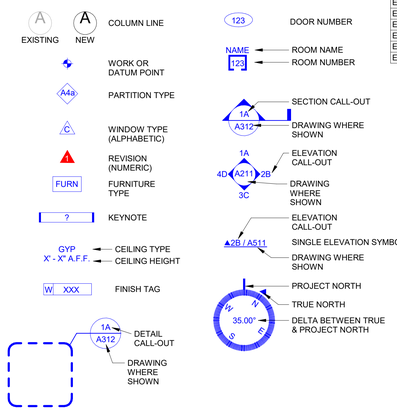
   REFERENCE THE OWNER ARCHITECT AGREEMENT FOR ALL EXCLUDED SERVICES.
3. THE PROJECT SPECIFICATIONS INDICATE SEVERAL AREAS OF DELEGATED DESIGN WHERE A QUALIFIED PROFESSIONAL MUST BE ENGAGED BY THE CONTRACTOR AND/OR SUBCONTRACTOR TO PROVIDE DESIGN SERVICES AND/OR SHOP DRAWINGS.
   THESE MAY INCLUDE, BUT ARE NOT LIMITED TO:
   A. COLD-FORMED METAL FRAMING
   B. METAL FABRICATIONS
   C. SUSPENDED CEILING SYSTEMS
   D. SIGNAGE
   E. PIPE HANGERS & EQUIPMENT SUPPORTS

REFERENCE SPECIFICATIONS FOR ALL REQUIREMENTS RELATED TO DELEGATED DESIGN ALONG WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA.

SHEET LAYOUT

	6	5	4	3	2	1
E	6E	5E	4E	3E	2E	1E
D	6D	5D	4D	3D	2D	1D
C	6C	5C	4C	3C	2C	1C
B	6B	5B	4B	3B	2B	1B
A	6A	5A	4A	3A	2A	1A

GENERAL SYMBOLS



DRAWING INDEX

FIREPROOFING NOTES

1. ALL FIREPROOFING DESIGNS SHOULD BE CONSIDERED THERMALLY UNRESTRAINED.
2. SPRAYED FIREPROOFING FOR STRUCTURAL MEMBERS WITH W/D OR A/P RATIOS OTHER THAN THE SPECIFIED UL DESIGN, WILL BE ADJUSTED IN ACCORDANCE WITH THE ADJUSTMENT OF SPRAYED PROTECTION MATERIAL THICKNESS FOR UNRESTRAINED RATINGS FOR VARIOUS BEAM AND COLUMN SIZES AS FOUND IN THE MOST CURRENT EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
3. ALL BEAMS AND COLUMNS SHALL BE ADJUSTED USING W/D OR A/P RATIOS TO DETERMINE THE CORRECT FIREPROOFING THICKNESS.
4. PENETRATIONS AT CHASE WALLS SHALL BE FIRE SEALED.

Baskervill

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FISHER ENGINEERING

BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400

COMMONWEALTH OF VIRGINIA
JAY L. WOODBURN
Lic. No. 10752
01/26/2024
ARCHITECT

PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

ISSUE
01/26/2024 - WORKING DRAWINGS 4

TITLE SHEET
T001

ABBREVIATIONS

ABBRV	FULL WORD
@	AT
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
AC	ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
AD	ACCESS DOOR
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
AP	ARMOR PLATE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AWC	ACOUSTICAL WALL COVERING
BC	BRICK COURSES(ING)
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK, BEAM
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BUR	BUILT UP ROOFING
CB	CATCH BASIN
CF	CUBIC FOOT (FEET)
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFM	CUBIC FOOT PER MINUTE
CG	CORNER GUARD
CHAN	CHANNEL
CHR	CHAIR RAIL
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
cm	CENTIMETER
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITION, COMPOSITE
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
CP	CLEAR PLASTIC
CPT	CARPET
CR	CRASH RAIL
CR/BG	CRASH RAIL / BUMPER GUARD
CT	CERAMIC TILE
CTR	CENTER
CV	CHECK VALVE
CW	CLEAR WIRE GLASS
CY	CUBIC YARD
CYL	CYLINDER
℄	CENTERLINE
D	DEPTH
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DP	DAMPROOFING
DR	DOOR, DRAIN
DS	DOWNSPOUT
DWG	DRAWING
DWGS	DRAWINGS
EA	EACH
EB	EXPANSION BOLT
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR, ELEVATION
EMER	EMERGENCY
ENGR	ENGINEER(ING)
EPDM	ETHYLENE PROPYLENE DIENE MONOMER (ROOF MEMBRANE)
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXPA	EXPANSION ANCHOR
EXT	EXTERIOR
F	FAHRENHEIT
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FO	FINISHED OPENING
FOF	FACE OF FINISH
FOS	FACE OF STUD
FRTW	FIRE RETARDANT TREATED WOOD
FV	FIELD VERIFIED
FWC	FABRIC WALL COVERING
GA	GAGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS, GLAZING
GND	GROUND
GNV	GOOSE NECK VENTILATOR
GR	GROUT
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDW	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HRL	HANDRAIL
HVAC	HEATING VENTILATING & AIR CONDITIONING
HWD	HARDWOOD
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IPT	INTERIOR PAINT
JAN	JANITOR
JCT	JUNCTION
JST	JOIST
JT	JOINT
JT B	JOINT BACKER
KB	KEYBOARD
KIT	KITCHEN
KO	KNOCKOUT
KP	KICK PLATE
KS	KNEE SPACE
L	LENGTH
LAM	LAMINATE, LAMINATED
LAM GL	LAMINATED GLASS
LAV	LAVATORY
LB	POUND
LBF	POUNDS-FORCE

ABBREVIATIONS

ABBRV	FULL WORD
LH	LEFT HAND
LIN	LINEAR
LLV	LONG LEG VERTICAL
LVR	LOUVER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD	MOLDING
mm	MILLIMETER
MO	MASONRY OPENING
MT	METAL THRESHOLD
MTL	METAL
MULL	MULLION
MWK	MILLWORK
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPP H	OPPOSITE HAND
OVFL	OVERFLOW
#LBS	POUNDS
PAR	PARALLEL
PART	PARTIAL
PARTN	PARTITION
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLBG	PLUMBING
PLWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PP	PITCH POCKET
PR	PAIR
PRV	POWERED ROOF VENTILATOR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED, PORCELAIN TILE
PWC	PLASTIC WALL COVERING
QT	QUARRY TILE
QTY	QUANTITY
QUAL	QUALITY
R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER, RUBBER BASE
RD	ROOF DRAIN
REBAR	REINFORCING BAR
RECEP	RECEPTACLE, RECEPTION
REF	REFERENCE
REFL	REFLECTED
REFR	REFRIGERATOR
REG	REGULAR
REINF	REINFORCED
REP	REPAIR
REQ	REQUIRE, REQUIRED
RESIL	RESILIENT
REV	REVISION
RFG	ROOFING
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RT	RIGHT
S	SOUTH
SC	SOLID CORE
SCHED	SCHEDULE
SCUP	SCUPPER
SD	SOAP DISPENSER
SECT	SECTION
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SP	STAND PIPE
SPEC	SPECIFICATION
SPM	SINGLE PLY MEMBRANE
SS	SERVICE SINK, STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STAINLESS
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYS	SYSTEM
T	TREAD
T GL	TEMPERED GLASS
T&G	TONGUE & GROOVE
TB	TOWEL BAR
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPERED, TEMPORARY
TERR	TERRAZZO
THK	THICK
TLT	TOILET
TOC	TOP OF CURB, TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TTD	TOILET TISSUE DISPENSER
TWS	THRU-WALL SCUPPER
TYP	TYPICAL
UC	UNDERCOUNTER, UNDERCUT
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER, VINYL BASE
VC	VALVE CABINET
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VIT	VITREOUS CHINA
VNR	VENEER
VP	VENT PIPE, VAPOR PROOF
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WIDTH
W/	WITH
W/O	WITHOUT
WAINS	WAINSCOT
WB	WOOD BASE
WC	WALL COVERING, WATER CLOSET
WD	WOOD
WG	WIRE GLASS
WH	WATER HEATER
WIN	WINDOW

CODE DATA

EXISTING CODE DATA

THIS BUILDING SUMMARY INFORMATION BELOW IS REPLICATED FROM THE DRAWING SET PRODUCED BY BALLOU, JUSTICE & UPTON AND ASSOCIATES ARCHITECTS AND DATED 12/28/89.

BUILDING CODES: VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 1990
TITLE II AMERICANS WITH DISABILITIES ACT, 1990
UNIFORM FEDERAL ACCESSIBILITY STANDARDS, 1988

BUILDING CLASSIFICATION:
CONSTRUCTION CLASSIFICATION = TYPE 3B (PROTECTED)
OCCUPANCY CLASSIFICATION = USE GROUP B

GROSS SQUARE FOOTAGE: 17,824 SF

NEW WORK CODE DATA

CHAPTER 1: ADMINISTRATION

BUILDING CODES:	2018 VIRGINIA EXISTING BUILDING CODE 2018 VIRGINIA CONSTRUCTION CODE
MECHANICAL CODE:	2018 VIRGINIA MECHANICAL CODE
PLUMBING CODE:	2018 VIRGINIA PLUMBING CODE
ELECTRICAL CODE:	2017 NATIONAL ELECTRICAL CODE
FIRE CODE:	2018 INTERNATIONAL FIRE CODE
ENERGY CODE:	2018 VIRGINIA ENERGY CONSERVATION CODE
ACCESSIBILITY STANDARD:	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

CHAPTER 2: DEFINITIONS

THE SCOPE OF WORK FOR THE EXISTING BUILDING ENTAILS SELECTIVE DEMOLITION AND FINISH IMPROVEMENTS OF SCHERER HALL RESULTING FROM STRUCTURAL REPAIRS AND MECHANICAL UPGRADES, SEE DESCRIPTION ON T001

CHAPTER 3: USE & CLASSIFICATION

EXISTING USE GROUP: BUSINESS (NO CHANGE)

CHAPTER 4: SPECIAL DETAILED REQUIREMENTS : NOT APPLICABLE

CHAPTER 5: GENERAL BUILDING HEIGHTS & AREAS:

AREA: 17,824 SF (NO CHANGE)
HEIGHT: 5 STORIES (NO CHANGE), 59' - 4" (NO CHANGE)

CHAPTER 6: TYPE OF CONSTRUCTION: (UN)CHANGED

CONSTRUCTION TYPE: IIIA (EQUIVALENT TO BOCA 3B)

FIRE RESISTANCE RATINGS OF STRUCTURAL ELEMENTS	**REQUIRED RATINGS (HRS)**
PRIMARY STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS & TRUSSES	1
BEARING WALLS	
EXTERIOR	2
INTERIOR	1
NON-BEARING WALLS	
EXTERIOR (IBC TABLE 602)	0
INTERIOR	0
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOIST	1
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOIST	1

CHAPTER 7: FIRE & SMOKE PROTECTION FEATURES:

THE SCOPE WILL NOT CHANGE THE EXISTING FIRE SPRINKLER AND FIRE ALARM SYSTEMS. DURING THIS RENOVATION, THE BUILDING WILL NOT BE OCCUPIED WHICH WILL ALLOW SELECTIVE PORTIONS OF THE EXISTING SPRINKLER AND FIRE ALARM SYSTEMS TO BE REMOVED FOR STRUCTURAL REPAIRS. THE ITEMS THAT ARE REMOVED WILL BE PUT-BACK IN THE SAME PLACE AND TESTED FOR COMPLIANCE WITH NFPA 13.

CHAPTER 8: INTERIOR FINISHES:

INTERIOR EXIT STAIRWAYS AND RAMPS: B

CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: C

ROOMS AND ENCLOSED SPACES: C

CHAPTER 9: FIRE PROTECTION SYSTEMS:

NO CHANGE TO THE FIRE PROTECTION OR FIRE ALARM SYSTEMS. ANY DEVICES REMOVED TO ACCESS THE STRUCTURE WILL BE PUT BACK IN THE SAME LOCATION

CHAPTER 10: MEANS OF EGRESS:

NO CHANGE

GENERAL MEANS OF EGRESS (1003)
REFERENCE LIFE SAFETY PLANS ON G001, G002, AND G003 FOR GENERAL EGRESS PATHS.

OCCUPANT LOAD COUNT IS ASSUMED TO BE 238 BASED ON FUNCTION OF SPACE CALCULATIONS. THE BUSINESS FUNCTION OF SPACE UTILIZES 100 OCCUPANT LOAD FACTOR BASED ON 1990 EXISTING CODE. THERE IS NO CHANGE TO THE BUILDING USE; THEREFORE, WE ASSUME NO CHANGE TO EXISTING OCCUPANT LOAD.

FUNCTION OF SPACE	**AREA (SF)**	**OCC LOAD**	**# OCCUPANTS**
BASEMENT (MECH/STORAGE):	2,340 SF	300 GROSS	8
BASEMENT (BUSINESS):	397 SF	100 GROSS	4
1ST FLOOR (BUSINESS):	3,464 SF	100 GROSS	35
2ND FLOOR (BUSINESS):	3,464 SF	100 GROSS	35
3RD FLOOR (BUSINESS):	3,464 SF	100 GROSS	35
4TH FLOOR (BUSINESS):	2,575 SF	100 GROSS	26
4TH FLOOR (ASSEMBLY):	889 SF	15 NSF/Person	60
5TH FLOOR (BUSINESS):	3,464 SF	100 GROSS	35
TOTAL:	20,057 SF		238

CHAPTER 11: ACCESSIBILITY:

NO CHANGE / LIST CHANGES HERE

CODE DATA (EXISTING BUILDING)

CODE:
- VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 1990
- TITLE II AMERICANS WITH DISABILITIES ACT, 1990
- UNIFORM FEDERAL ACCESSIBILITY STANDARDS, 1988

BUILDING CLASSIFICATION:
- CONSTRUCTION CLASSIFICATION = TYPE 3B (PROTECTED)
- OCCUPANCY CLASSIFICATION = USE GROUP H

GROSS SQUARE FOOTAGE:
SCHERER HALL BUILDING = 17,824

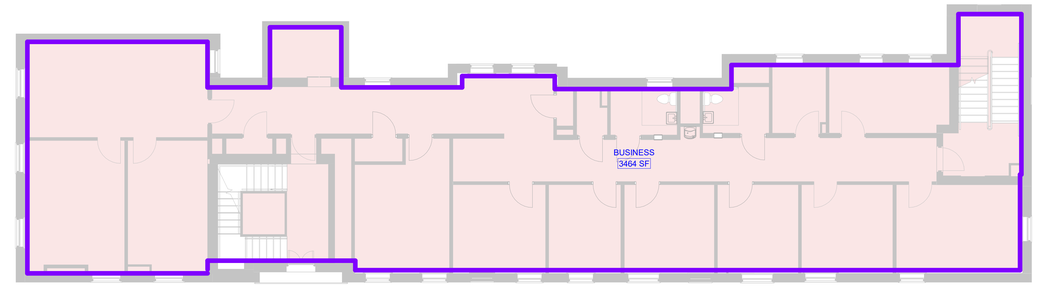
VOLUME:
SCHERER HALL BUILDING = 96,054

CAPITAL OUTLAY PROJECT #236-14046

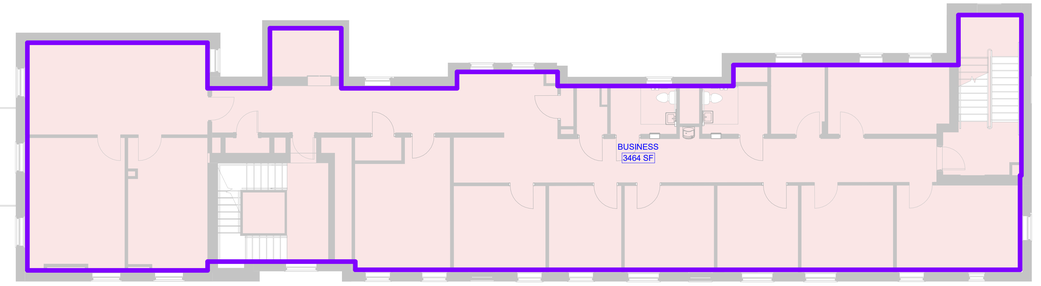
APPROPRIATION CHAPTER 800 - ITEM C-80

ABBREVIATIONS

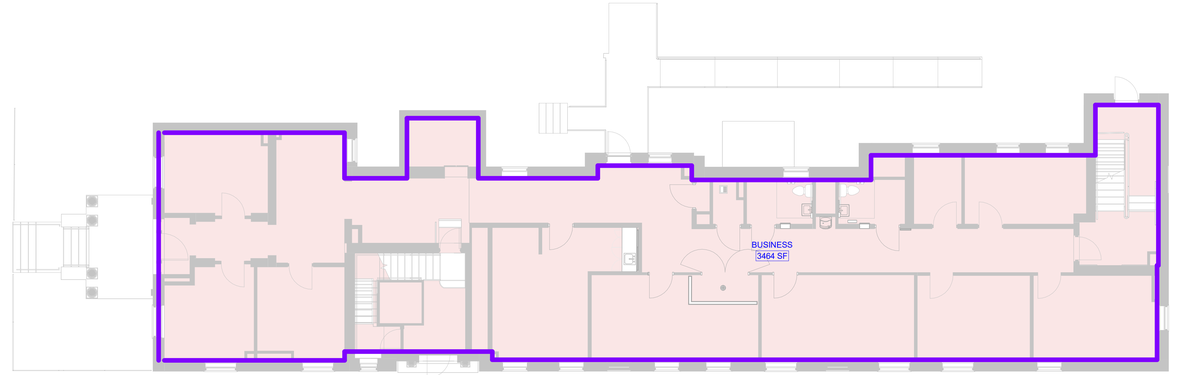
ABBRV	FULL WORD
WPR	WATERPROOFING
WPT	WORK POINT
WR	WATER RESISTANT, WASTE RECEPTACLE
WT	WEIGHT
WWF	WELDED WIRE FABRIC



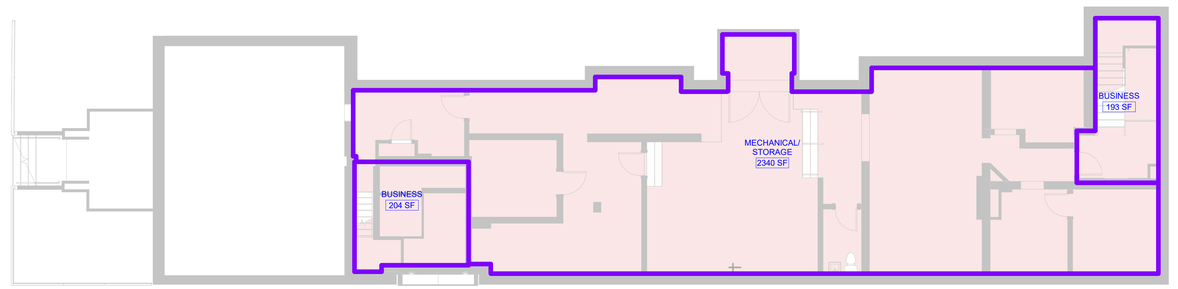
3D G001 3RD FLOOR AREA PLAN
1/8" = 1'-0"



3C G001 2ND FLOOR AREA PLAN
1/8" = 1'-0"



3B G001 1ST FLOOR AREA PLAN
1/8" = 1'-0"



3A G001 BASEMENT AREA
1/8" = 1'-0"

0' 4' 8' 12' 16' 20' 24'
1/8" =1'-0"

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01/26/2024
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PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

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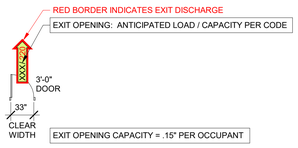
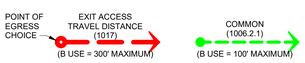
LIFE SAFETY LEGEND & LIFE SAFETY PLANS

G001

EXIT DISCHARGE CAPACITY (SPRINKLERED)



TRAVEL DISTANCE LIMITATIONS (1017)



EXIT/ EGRESS SYMBOLS

EP — EXIT PASSAGEWAY (1024)

EXIT ACCESS CORRIDOR (1020)

EX — EXISTING DIRECTIONAL ILLUMINATED EXIT SIGN (1013)

ELEV — ELEVATOR (3001)

EAS — EXIT ACCESS (1019)

IES — INTERIOR EXIT STAIRWAY (1023)

LIFE SAFETY GENERAL NOTES

1. FIRE EXTINGUISHER CABINETS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75'-0" (906.3).
2. MINIMUM EGRESS WIDTH PER OCCUPANT AT STAIRS = 0.2" PER OCCUPANT (1005.3.1). MINIMUM EGRESS WIDTH PER OCCUPANT AT OTHER EGRESS COMPONENTS = 0.15" PER OCCUPANT. (1005.3.2)
3. A FIRE RATED ASSEMBLY AND SMOKE BARRIER ASSEMBLY SHALL BE STENCILED WITH THE RELEVANT DESIGNATION AS FOLLOWS (703.7):
   - 3-INCH TALL LETTERS IN RED INK OR PAINT.
   - APPLIED AT ALL CONCEALED LOCATIONS (EG., ABOVE CEILING AND INSIDE ELEVATOR SHAFTS) @ 8'-0" OC MAX.

FIRE PROTECTION & ALARM DEVICES (906 -908)

F — FIRE ALARM PULL STATION, +48"

FEC — FIRE EXTINGUISHER CABINET (RECESSED/ SEMI RECESSED)

V — FIRE ALARM STROBE ONLY, + 80" SYNCHRONIZED 15 CANDELA UNLESS OTHERWISE NOTED

F — FIRE ALARM HORN/STROBE DEVICE, +80" SYNCHRONIZED 15 CANDELA UNLESS OTHERWISE NOTED

SD — FIRE ALARM PHOTOELECTRIC DUCT SMOKE DETECTOR HOUSING WITH SENSOR AND REMOTE LED/ALARM TEST STATION

SD — FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR CEILING MOUNTED

NOTE: ALL FIRE ALARM SYSTEMS ARE TO BE REMOVED, REINSTALLED, AND RETESTED IN ACCORDANCE WITH 2018 INTERNATIONAL FIRE CODE

PLUMBING CALCULATIONS

OCC	PLUMBING USE	MIN. WATER CLOSETS	MIN. LAVATORIES	MIN. DRINKING FOUNTAIN	OTHER
B	BUSINESS	1/25 FOR THE FIRST 50 AND 1/50 FOR THE REMAINDER EXCEEDING 50	1/40 FOR THE FIRST 80 AND 1/80 FOR THE REMAINDER EXCEEDING 80	1/100 OCCUPANTS	1 SERVICE SINK
S	STORAGE	1/100 OCCUPANTS	1/100 OCCUPANTS	1/1,000 OCCUPANTS	1 SERVICE SINK

OCC	# OCCUPANTS	# WATER CLOSETS	# LAVATORIES	# DRINKING FOUNTAIN	OTHER
1ST FLOOR - 5TH FLOOR:					
B	138 OCCUPANTS	4	3	2	1 SERVICE SINK
TOTAL REQUIRED		4	3	2	1 SERVICE SINK
	EXISTING	**10**	**10**	**5**	**5 SERVICE SINK**
BASEMENT:					
S	9 OCCUPANTS	1	1	-	1 SERVICE SINK
TOTAL REQUIRED		1	1	-	1 SERVICE SINK
	EXISTING	**1**	**1**	**1**	**1 SERVICE SINK**

EGRESS PATH DISTANCES

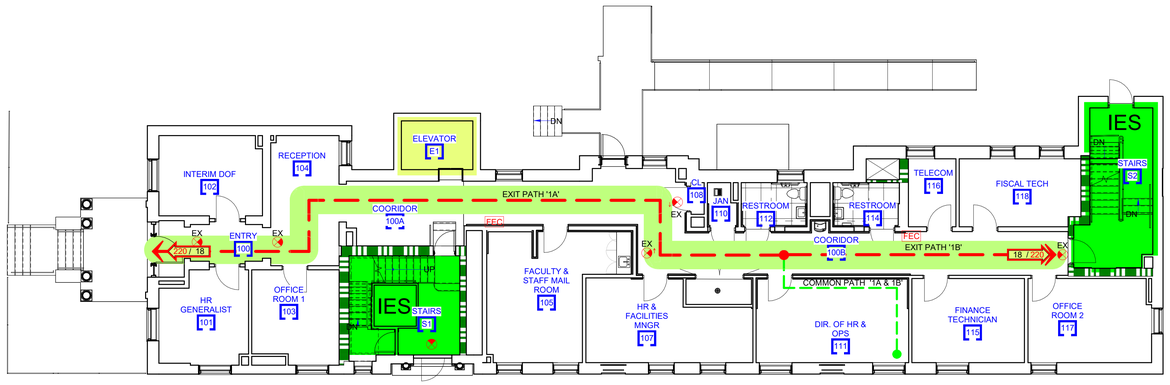
TYPE	PATH OF EGRESS	
00 COMMON PATH 0A & 0B		
COMMON PATH OF EGRESS TRAVEL	27'-11"	
	27'-11"	COMPLIES
00 EXIT PATH 0A		
EXIT ACCESS TRAVEL DISTANCE	62'-11"	
	62'-11"	COMPLIES
00 EXIT PATH 0B		
EXIT ACCESS TRAVEL DISTANCE	43'-5"	
	43'-5"	COMPLIES
01 COMMON PATH '1A & 1B'		
COMMON PATH OF EGRESS TRAVEL	27'-8"	
	27'-8"	COMPLIES
01 EXIT PATH '1A'		
EXIT ACCESS TRAVEL DISTANCE	95'-8"	
	95'-8"	COMPLIES
01 EXIT PATH '1B'		
EXIT ACCESS TRAVEL DISTANCE	35'-6"	
	35'-6"	COMPLIES
02 COMMON PATH 'C & D'		
COMMON PATH OF EGRESS TRAVEL	19'-3"	
	19'-3"	COMPLIES
02 EXIT PATH 'C'		
EXIT ACCESS TRAVEL DISTANCE	56'-0"	
	56'-0"	COMPLIES
02 EXIT PATH 'D'		
EXIT ACCESS TRAVEL DISTANCE	35'-3"	
	35'-3"	COMPLIES
03 COMMON PATH 'E & F'		
COMMON PATH OF EGRESS TRAVEL	19'-11"	
	19'-11"	COMPLIES
03 EXIT PATH 'E'		
EXIT ACCESS TRAVEL DISTANCE	55'-11"	
	55'-11"	COMPLIES
03 EXIT PATH 'F'		
EXIT ACCESS TRAVEL DISTANCE	38'-0"	
	38'-0"	COMPLIES
04 COMMON PATH 'G & H'		
COMMON PATH OF EGRESS TRAVEL	22'-6"	
	22'-6"	COMPLIES
04 EXIT PATH 'G'		
EXIT ACCESS TRAVEL DISTANCE	51'-2"	
	51'-2"	COMPLIES
04 EXIT PATH 'H'		
EXIT ACCESS TRAVEL DISTANCE	42'-4"	
	42'-4"	COMPLIES
05 COMMON PATH 'I & J'		
COMMON PATH OF EGRESS TRAVEL	20'-1"	
	20'-1"	COMPLIES
05 EXIT PATH 'I'		
EXIT ACCESS TRAVEL DISTANCE	57'-9"	
	57'-9"	COMPLIES
05 EXIT PATH 'J'		
EXIT ACCESS TRAVEL DISTANCE	35'-4"	
	35'-4"	COMPLIES

PARTITION DESIGNATIONS (705-710)

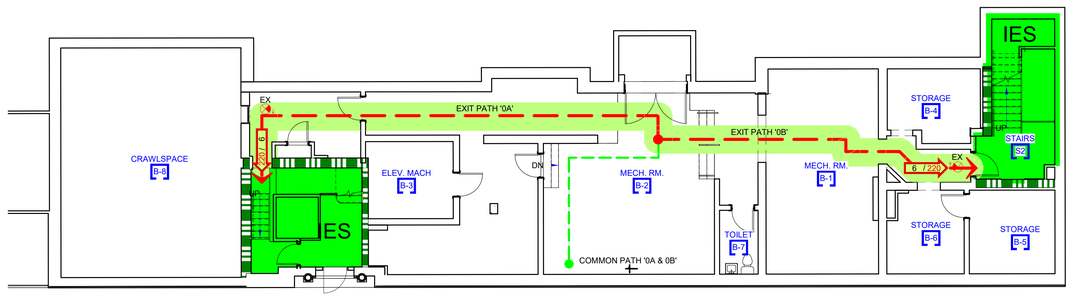
NON-RATED PARTITION

707 FIRE BARRIERS

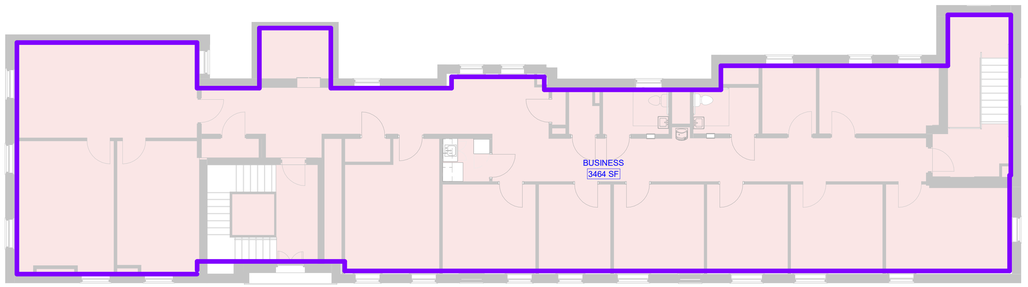
2 HR FIRE BARRIER



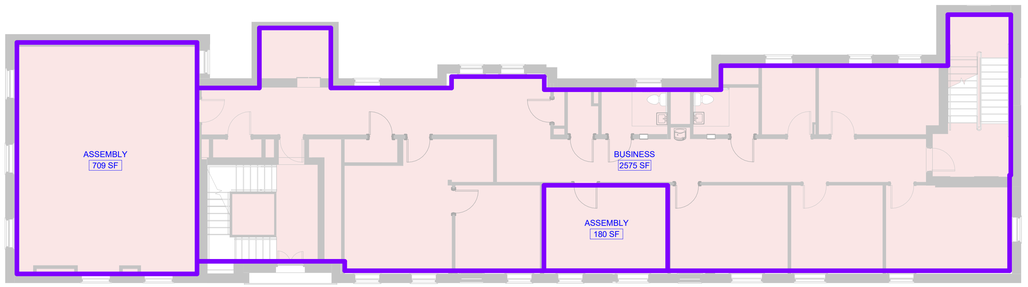
3D G002 1ST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



3C G002 BASEMENT LIFE SAFETY PLAN
1/8" = 1'-0"



3B G002 5TH FLOOR AREA PLAN
1/8" = 1'-0"



3A G002 4TH FLOOR AREA PLAN
1/8" = 1'-0"

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COMMONWEALTH OF VIRGINIA
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LIFE SAFETY LEGEND & LIFE SAFETY PLANS

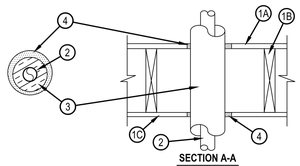
G002

System No. F-C-5036

FC 5036

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Rating — 1 Hr	FT Rating — 1 Hr
	FH Rating — 1 Hr
	FTH Rating — 1 Hr



SECTION A-A

1. Floor-Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
   A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 6-7/8 in. (175 mm).
   B. Wood Joists* — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
   C. Gypsum Board* — Nom 4 ft (1.2 m) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 6-7/8 in. (175 mm).

1.1 Chase Wall — (Not Shown, Optional) The through penetrants (Item 2) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Nom 2 by 8 (51 by 203 mm) lumber or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
   B. Sole Plate — Nom 2 by 8 in. (51 by 203 mm) lumber or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening shall be 6-7/8 in. (175 mm).
   C. Top Plate — The double top plate shall consist of two nom 2 by 8 in. (51 by 203 mm) lumber plates or two sets of nom 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is 6-7/8 in. (175 mm).
   D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
2. Through Penetrants — One metallic tube or pipe to be installed within the firestop system. Tube or pipe to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic tubes or pipes may be used:
   A. Copper Tubing — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
   B. Copper Pipe — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.
   C. Steel Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

HILTI
Hilti Firestop Systems

System No. F-C-5036

FC 5036

3. Pipe Covering — Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (min 3.5 pcf (56 kg/m3)) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing tape. Traverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space shall be min 1/2 in. (13 mm) and max 1 in. (25 mm). See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Materials* - Sealant — Min 3/4 in. (19 mm) thickness of sealant applied within annular space, flush with top surface of subfloor or sole plate. Min 5/8 in. (16 mm) thickness of sealant applied within the annular space, flush with bottom surface of gypsum wallboard or lower top plate.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

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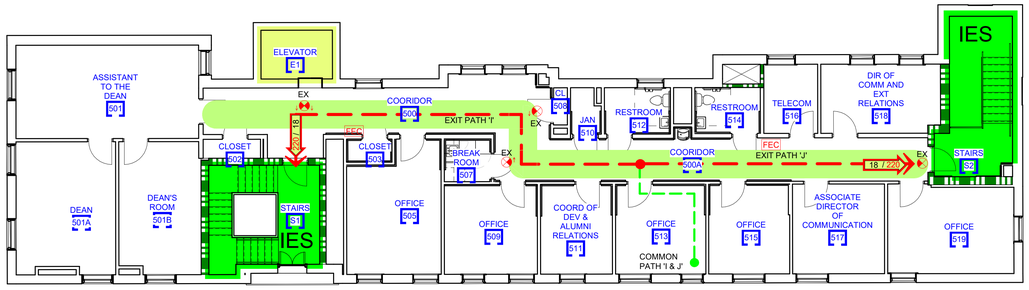
UL DESIGNATION

PENETRATING ITEM	1-HOUR RATED FLOOR ASSEMBLY
SINGLE METALLIC PIPE	UL F-C-5036

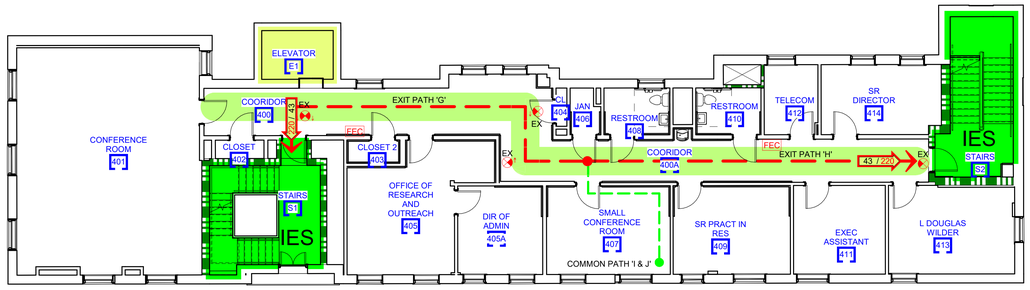
NOTE: ASSUMED TO BE A IIIA CONSTRUCTION TYPE PER 2018 VCC CHAPTER 6 SECTION 601

EGRESS PATH DISTANCES

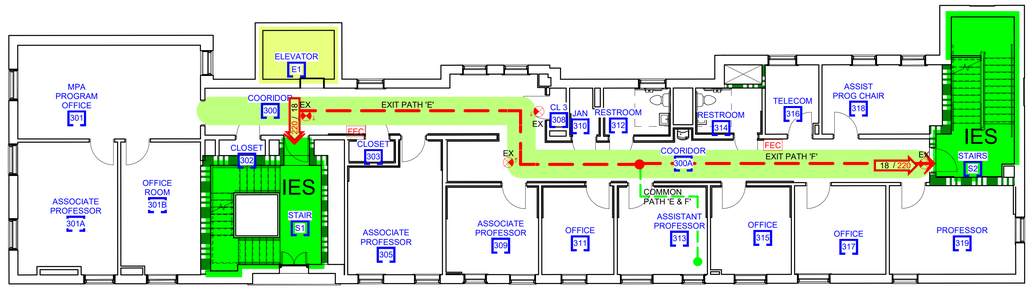
TYPE	PATH OF EGRESS
00 COMMON PATH 0A & 0B	
COMMON PATH OF EGRESS TRAVEL	27'-11"
	27'-11" COMPLIES
00 EXIT PATH 0A	
EXIT ACCESS TRAVEL DISTANCE	62'-11"
	62'-11" COMPLIES
00 EXIT PATH 0B	
EXIT ACCESS TRAVEL DISTANCE	43'-5"
	43'-5" COMPLIES
01 COMMON PATH '1A & 1B'	
COMMON PATH OF EGRESS TRAVEL	27'-8"
	27'-8" COMPLIES
01 EXIT PATH '1A'	
EXIT ACCESS TRAVEL DISTANCE	95'-8"
	95'-8" COMPLIES
01 EXIT PATH '1B'	
EXIT ACCESS TRAVEL DISTANCE	35'-6"
	35'-6" COMPLIES
02 COMMON PATH 'C & D'	
COMMON PATH OF EGRESS TRAVEL	19'-3"
	19'-3" COMPLIES
02 EXIT PATH 'C'	
EXIT ACCESS TRAVEL DISTANCE	56'-0"
	56'-0" COMPLIES
02 EXIT PATH 'D'	
EXIT ACCESS TRAVEL DISTANCE	35'-3"
	35'-3" COMPLIES
03 COMMON PATH 'E & F'	
COMMON PATH OF EGRESS TRAVEL	19'-11"
	19'-11" COMPLIES
03 EXIT PATH 'E'	
EXIT ACCESS TRAVEL DISTANCE	55'-11"
	55'-11" COMPLIES
03 EXIT PATH 'F'	
EXIT ACCESS TRAVEL DISTANCE	38'-0"
	38'-0" COMPLIES
04 COMMON PATH 'G & H'	
COMMON PATH OF EGRESS TRAVEL	22'-6"
	22'-6" COMPLIES
04 EXIT PATH 'G'	
EXIT ACCESS TRAVEL DISTANCE	51'-2"
	51'-2" COMPLIES
04 EXIT PATH 'H'	
EXIT ACCESS TRAVEL DISTANCE	42'-4"
	42'-4" COMPLIES
05 COMMON PATH 'I & J'	
COMMON PATH OF EGRESS TRAVEL	20'-1"
	20'-1" COMPLIES
05 EXIT PATH 'I'	
EXIT ACCESS TRAVEL DISTANCE	57'-9"
	57'-9" COMPLIES
05 EXIT PATH 'J'	
EXIT ACCESS TRAVEL DISTANCE	35'-4"
	35'-4" COMPLIES



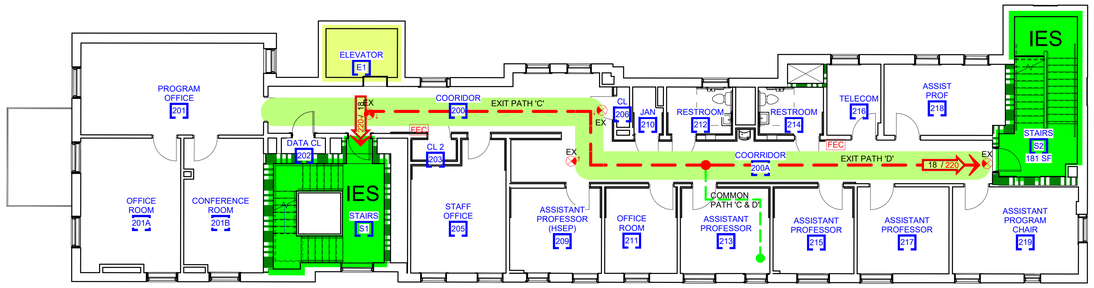
3D G003 5TH FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



3C G003 4TH FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



3B G003 3RD FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



3A G003 2ND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

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FISHER ENGINEERING

0' 4' 8' 12' 16' 20' 24'
1/8" =1'-0"

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COMMONWEALTH OF VIRGINIA
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LIFE SAFETY LEGEND & UL ASSEMBLY

G003

REFLECTED CEILING PLAN LEGEND - DEMO

2' X 4' LIGHT FIXTURE TO BE AFFIXED TO STRUCTURE AND PROTECTED DURING DEMO

RECESSED DOWN LIGHT FIXTURE TO BE REMOVED AND SALVAGED FOR PUT BACK IN SAME LOCATION DURING NEW CONSTRUCTION

SUSPENDED CEILING SYSTEM TO BE REMOVED, SALVAGED, LABELED, AND STORED FOR REUSE

NOT IN CONTRACT

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO CONTACT OWNER PRIOR TO START OF DEMOLITION OF ANY AREAS TO ALLOW OWNER TO REMOVE ANY MOVABLE EQUIPMENT SO DESIRED.
2. REMOVE ALL FIRE EXTINGUISHERS AND CABINETS IN WALLS TO BE DEMOLISHED AND RETURN TO OWNER FOR FUTURE REUSE.
3. REPAIR HOLES IN EXISTING WALLS TO REMAIN WHERE WALL MOUNTED ITEMS ARE TO BE REMOVED. REFER TO ROOM FINISH LEGEND FOR FINAL FINISH.
4. PATCH, FILL, AND LEVEL ALL HOLES IN FLOOR SLAB DUE TO DEMOLITION OF PLUMBING RISERS, FLOOR DRAINS, ELECTRICAL RISERS, MILLWORK, CASEWORK, OR EQUIPMENT.
5. REPAIR ALL CEILINGS TO MATCH EXISTING CEILINGS WHERE WALLS ARE TO BE DEMOLISHED AND EXISTING CEILING IS TO REMAIN.
6. CONTRACTOR TO MATCH ALL EXISTING CONDITIONS FOR ALL REQUIRED MODIFICATIONS IN RENOVATED AREAS (U.N.O.). THIS REFERS TO REPETITIONS OF FINISH PATTERNS AND COLORS, MODIFICATIONS TO HANDRAILS AND BUMPER PANELS, ETC.
7. WHERE PARTITIONS, EQUIPMENT, OR ACCESSORIES, ETC. ARE REMOVED AND NO REPLACEMENT FINISH IS CALLED FOR, THE GENERAL CONTRACTOR SHALL REPAIR TO MATCH ADJACENT FINISH.
8. CONTRACTOR TO PROTECT FROM DAMAGE ALL EXISTING FLOORS, WALLS, CEILINGS, ETC. DURING CONSTRUCTION AND PROVIDE TEMPORARY PARTITIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ALL DAMAGED FLOORING, WALLS, CEILINGS, ETC. FINISHES TO MATCH EXISTING.
9. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE DEMOLISHED. TYPICAL (U.N.O.).
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLITION MATERIALS. TEMPORARY LIGHTING WILL BE PROVIDED BY THE CONTRACTOR.
11. REMOVE ALL FLOOR COVERINGS AND PREP CONCRETE DECK FOR NEW CARPET, VINYL AND CERAMIC TILE AS SCHEDULED. (TYPICAL - ALL ROOMS WITHIN LIMITS OF PROJECT).
12. ADDITIONAL DEMOLITION MAY BE REQUIRED TO ACCOMMODATE NEW CONSTRUCTION SHOWN ON OTHER SHEETS. CONTRACTORS TO REVIEW EXISTING CONDITIONS AND INCLUDE IN BASE BID ALL DEMOLITION REQUIRED FOR A COMPLETE INSTALLATION.
13. DURING DEMOLITION, COORDINATE WITH REMOVAL AND/OR RELOCATION OF ELECTRICAL AND MECHANICAL WORK. NOTIFY ARCHITECT OF CONFLICTS OR DISCREPENCIES BEFORE BEGINNING WORK.
14. NOT ALL ITEMS TO BE REMOVED ARE INDICATED. CONTRACTOR TO VISIT SITE AND FAMILIARIZE THEMSELF WITH THE SITE CONDITIONS PRIOR TO BIDDING AND/OR BEGINNING WORK.
15. FIRE PROTECTION SYSTEM SHALL REMAIN ACTIVE THROUGHOUT THIS PHASE.
16. ALL WORK WHICH IS TO REMAIN IN PLACE SHALL BE PROTECETED FROM DAMAGE, AND IF DAMAGED SHALL BE REPAIRED AT NO COST TO THE OWNER OR TENANT.
17. ALL DE-ENERGIZED CIRCUIT WIRING SHALL BE REMOVED BACK TO PANEL BOARD.
18. INSTALL TEMPORARY FILTERS IN HVAC UNIT AND REPLACE AT COMPLETION OF WORK.

GENERAL BASEMENT NOTES

1. NO ARCHITECTURAL DEMOLITION SCOPE INCLUDED IN THE BASEMENT LEVEL OF THE PROJECT. INCLUSION OF BASEMENT LEVEL PLANS IN THE ARCHITECTURAL DRAWING SET IS TO DENOTE THE EXTENT OF THE SCOPE OF WORK FOR OTHER DISCIPLINES. SEE MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR DETAILS AND INFORMATION REGARDING THE BASEMENT LEVEL.

KEYNOTES

02.41.21 LIGHT FIXTURES THROUGHOUT BASEMENT LEVEL EXISTING TO REMAIN. TYPICAL. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.

02.41.22 MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.

02.41.23 DASHED LINES INDICATE LOCATION OF STRUCTURAL SHORING SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.

PARTITION PHASE LEGEND

EXISTING PARTITION (TO BE DEMOLISHED)

EXISTING PARTITION

6C D100 BASEMENT FLOOR DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"

6A D100 BASEMENT DEMOLITION PLAN
1/4" = 1'-0"

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0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400

COMMONWEALTH OF VIRGINIA
JAY L. WOODBURN
Lic. No. 10752
01/26/2024
ARCHITECT

PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

ISSUE
01/26/2024 - WORKING DRAWINGS 4

BASEMENT FLOOR DEMOLITION PLAN & RCP

D100

REFLECTED CEILING PLAN LEGEND - DEMO

2' X 4' LIGHT FIXTURE TO BE AFFIXED TO STRUCTURE AND PROTECTED DURING DEMO

RECESSED DOWN LIGHT FIXTURE TO BE REMOVED AND SALVAGED FOR PUT BACK IN SAME LOCATION DURING NEW CONSTRUCTION

SUSPENDED CEILING SYSTEM TO BE REMOVED, SALVAGED, LABELED, AND STORED FOR REUSE

NOT IN CONTRACT

KEYNOTES

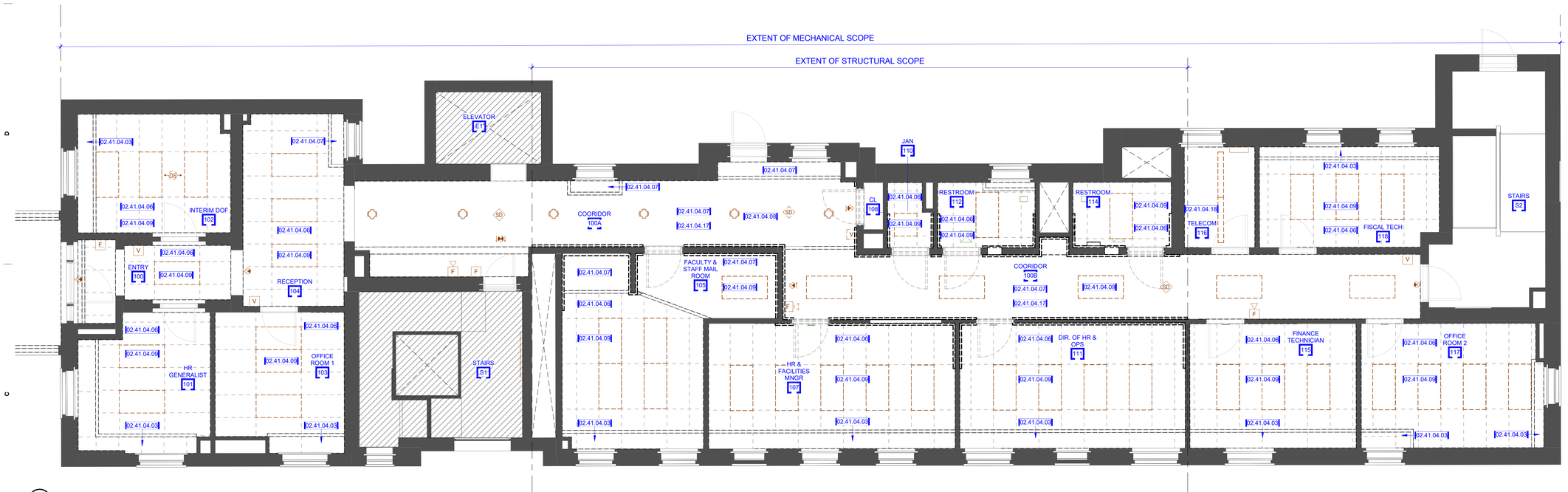
02.41.04.01	CUT AND REMOVE PORTION OF DRYWALL, FULL HEIGHT AS INDICATED ON PLAN. STUD FRAMING, WALL INSULATION (IF ANY) TO REMAIN DURING CONSTRUCTION. REMOVE, SALVAGE, LABEL, AND STORE RUBBER WALL BASE FOR REUSE IN SAME LOCATION AFTER CONSTRUCTION. LOCATE, IDENTIFY AND PROTECT ALL ELECTRICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE OF DEMOLITION LIMITS. MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF DEMOLITION LIMITS. COORDINATE WITH ELECTRICAL PLANS.
02.41.04.01a	SELECTIVE DEMOLITION OF WALL FOR NEW BACKFLOW PREVENTER CLOSET
02.41.04.02	REMOVE EXISTING LVT FLOORING. PROTECT, LABEL, AND STORE FOR RE-INSTALLATION IN SAME LOCATION ONCE REPAIRS ARE COMPLETED.
02.41.04.03	REMOVE CEILING GRID AND PANELS ABOVE WINDOW POCKET. LABEL UPON REMOVAL FOR RE-INSTALLATION IN SAME LOCATION. STORE AND SAVE DURING CONSTRUCTION. CEILING GRID AND PANELS TO BE RE-INSTALLED ONCE REPAIRS ARE COMPLETED.
02.41.04.04	REMOVE CARPET, PADDING AND ADHESIVE (IF ANY) AS INDICATED. LABEL UPON REMOVAL FOR RE-INSTALLATION IN SAME LOCATION. CARPET WILL BE RE-INSTALLED IN SAME ROOM ONCE REPAIRS ARE COMPLETED.
02.41.04.05	REMOVE VINYL FLOORING IN ITS ENTIRETY. REMOVE ALL GLUES AND PREPARE SUBFLOOR AS REQUIRED TO RECEIVE NEW FLOOR FINISHES WHEN REPAIRS ARE COMPLETED.
02.41.04.06	REMOVE CEILING GRID AND PANELS AS INDICATED. LABEL UPON REMOVAL FOR RE-INSTALLATION IN SAME LOCATION. STORE AND SAVE DURING CONSTRUCTION. CEILING WILL BE RE-INSTALLED IN SAME ROOM ONCE REPAIRS ARE COMPLETED.
02.41.04.07	REMOVE EXISTING DRYWALL CEILING.

KEYNOTES

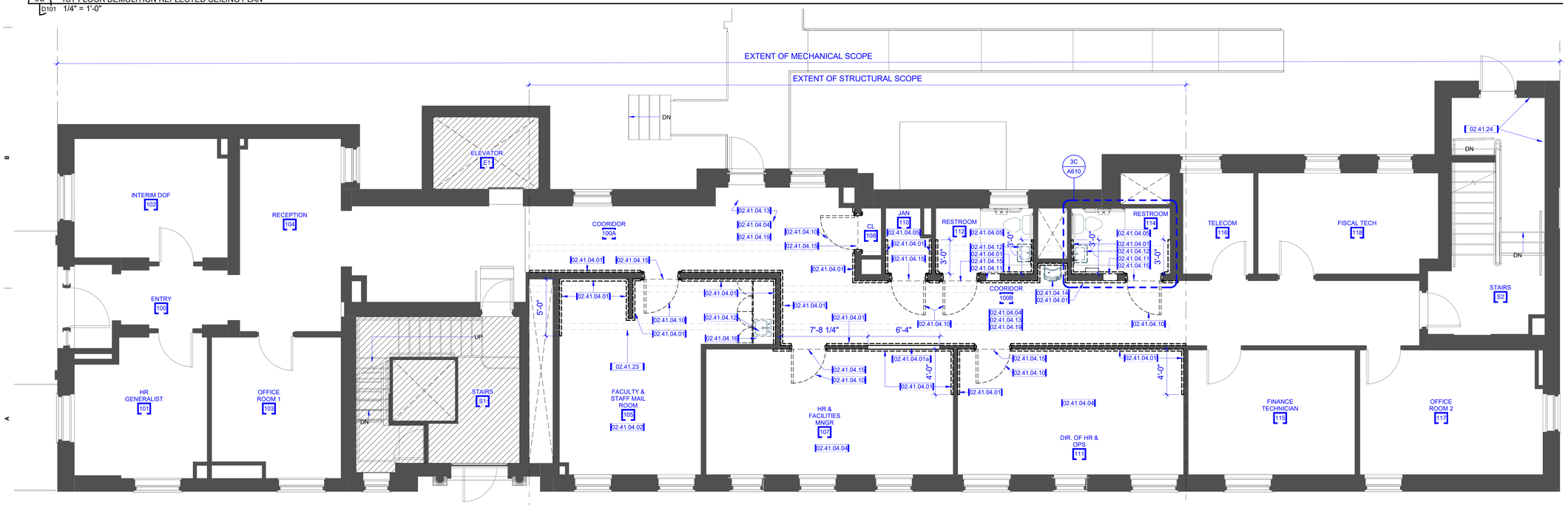
02.41.04.08	ALL EXISTING RECESSED DOWN LIGHTS MOUNTED WITHIN GYPSUM CORRIDOR CEILINGS TO BE REMOVED. FIXTURES SHALL BE DISCONNECTED, REMOVED, LABELED, PROTECTED, AND STORED DURING DEMOLITION. INSTALL IN SAME LOCATIONS WITHIN NEW CEILINGS. COORDINATE WITH ELECTRICAL PLANS. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING DURING DEMOLITION IN THOSE CORRIDORS AS REQUIRED.
02.41.04.09	ALL EXISTING RECESSED FLUORESCENT 2'X2' AND 2'X4' LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF SUSPENDED CEILING COMPONENTS. CONTRACTOR SHALL PROTECT LIGHT FIXTURES FROM DAMAGE DURING CONSTRUCTION. CLEAN AND RE-LAMP AS REQUIRED.
02.41.04.10	REMOVE EXISTING DOOR AND DOOR FRAME. PROTECT AND SALVAGE DOOR FRAME AND ALL HARDWARE FOR RE-USE. PATCH AND REPAIR OPENING FOR NEW DOOR AS SCHEDULED.
02.41.04.11	REMOVE ALL TOILET ACCESSORIES WITHIN SCOPE OF DEMOLITION. STORE, SAVE AND RE-INSTALL IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED. REFER TO ENLARGED TOILET PLANS ON A610.
02.41.04.12	REMOVE EXISTING SINK, FAUCET AND ASSOCIATED PIPING AND ACCESSORIES BACK TO WALL AND TEMPORARILY CAP FOR NEW SINK AND FAUCET UNDER NEW WORK. LABEL AND STORE ALL SINKS, FAUCETS AND ASSOCIATED PIPING AND ACCESSORIES FOR PUT BACK IN PRIOR LOCATION UPON COMPLETION OF STRUCTURAL REPAIRS. REFER TO ENLARGED TOILET PLANS ON A610.
02.41.04.13	REMOVE SWITCH PLATES, SIGNAGE, AND ADHESIVE THROUGHOUT ENTIRE CONSTRUCTION AREA. LABEL, SAVE, AND RE-INSTALL IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED.

KEYNOTES

02.41.04.14	REMOVE EXISTING WATER COOLER AND ASSOCIATED PIPING AND ACCESSORIES BACK TO WALL AND TEMPORARILY CAP. LABEL, SALVAGE, AND STORE ALL WATER COOLERS AND ASSOCIATED PIPING AND ACCESSORIES FOR PUT BACK IN PRIOR LOCATION UPON COMPLETION OF STRUCTURAL REPAIRS.
02.41.04.15	REMOVE AND SALVAGE FLOORING TRANSITION STRIPS FOR REUSE IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED.
02.41.04.16	REMOVE EXISTING COUNTERTOPS, CASEWORK, AND HARDWARE AS SHOWN. PROTECT AND STORE FOR RE-INSTALLATION IN SAME LOCATION ONCE REPAIRS ARE COMPLETED.
02.41.04.17	ALL CEILING MOUNTED SIGNAGE TO BE REMOVED, LABELED ACCORDING TO LOCATION, AND STORED DURING CONSTRUCTION. RE-INSTALL IN SAME LOCATIONS AFTER CONSTRUCTION IS COMPLETE. COORDINATE WITH ELECTRICAL PLANS.
02.41.04.18	EXISTING LINEAR LIGHT FIXTURES TO BE REMOVED, LABELED FOR RE-INSTALLATION IN SAME LOCATION, AND STORED DURING CONSTRUCTION. CLEAN AND RE-LAMP AS REQUIRED.
02.41.04.19	REMOVE ALL WALL BASE THROUGHOUT EXTENT OF STRUCTURAL WORK WHEREVER FINISH WALLS ARE TO BE DEMOLISHED. LABEL, SAVE, AND STORE WALL BASE FOR RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF CONSTRUCTION.
02.41.23	DASHED LINES INDICATE LOCATION OF STRUCTURAL SHORING SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
02.41.24	LIMITED SCOPE OF WORK TO INCLUDE PAINT ONLY AS INDICATED BY STRUCTURAL DRAWINGS



6C D101 1ST FLOOR DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"



6A D101 1ST FLOOR DEMOLITION PLAN
1/4" = 1'-0"

Baskervill
VCU
VIRGINIA COMMONWEALTH UNIVERSITY
DUNBAR
1025 BOULDERS PKWY, SUITE 310
RICHMOND, VIRGINIA 23225
(804) 323-0656
Project No.: 2107-17.WR
FISHER ENGINEERING
BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

COMMONWEALTH OF VIRGINIA
JAY L. WOODBURN
Lic.No. 10752
01/26/2024
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SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

ISSUE
01/26/2024 - WORKING DRAWINGS 4

1ST FLOOR DEMOLITION PLAN & RCP

D101

REFLECTED CEILING PLAN LEGEND - DEMO

2' X 4' LIGHT FIXTURE TO BE AFFIXED TO STRUCTURE AND PROTECTED DURING DEMO

RECESSED DOWN LIGHT FIXTURE TO BE REMOVED AND SALVAGED FOR PUT BACK IN SAME LOCATION DURING NEW CONSTRUCTION

SUSPENDED CEILING SYSTEM TO BE REMOVED, SALVAGED, LABELED, AND STORED FOR REUSE

NOT IN CONTRACT

KEYNOTES

02.41.04.01	CUT AND REMOVE PORTION OF DRYWALL, FULL HEIGHT AS INDICATED ON PLAN. STUD FRAMING, WALL INSULATION (IF ANY) TO REMAIN DURING CONSTRUCTION. REMOVE, SALVAGE, LABEL, AND STORE RUBBER WALL BASE FOR REUSE IN SAME LOCATION AFTER CONSTRUCTION. LOCATE, IDENTIFY AND PROTECT ALL ELECTRICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE OF DEMOLITION LIMITS. MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF DEMOLITION LIMITS. COORDINATE WITH ELECTRICAL PLANS.
02.41.04.03	REMOVE CEILING GRID AND PANELS ABOVE WINDOW POCKET. LABEL UPON REMOVAL FOR RE-INSTALLATION IN SAME LOCATION. STORE AND SAVE DURING CONSTRUCTION. CEILING GRID AND PANELS TO BE RE-INSTALLED ONCE REPAIRS ARE COMPLETED.
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02.41.04.07	REMOVE EXISTING DRYWALL CEILING.
02.41.04.08	ALL EXISTING RECESSED DOWN LIGHTS MOUNTED WITHIN GYPSUM CORRIDOR CEILINGS TO BE REMOVED. FIXTURES SHALL BE DISCONNECTED, REMOVED, LABELED, PROTECTED, AND STORED DURING DEMOLITION. INSTALL IN SAME LOCATIONS WITHIN NEW CEILINGS. COORDINATE WITH ELECTRICAL PLANS. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING DURING DEMOLITION IN THOSE CORRIDORS AS REQUIRED.

KEYNOTES

02.41.04.09	ALL EXISTING RECESSED FLUORESCENT 2'X2' AND 2'X4' LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF SUSPENDED CEILING COMPONENTS. CONTRACTOR SHALL PROTECT LIGHT FIXTURES FROM DAMAGE DURING CONSTRUCTION. CLEAN AND RE-LAMP AS REQUIRED.
02.41.04.10	REMOVE EXISTING DOOR AND DOOR FRAME. PROTECT AND SALVAGE DOOR FRAME AND ALL HARDWARE FOR RE-USE. PATCH AND REPAIR OPENING FOR NEW DOOR AS SCHEDULED.
02.41.04.11	REMOVE ALL TOILET ACCESSORIES WITHIN SCOPE OF DEMOLITION. STORE, SAVE AND RE-INSTALL IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED. REFER TO ENLARGED TOILET PLANS ON A610.
02.41.04.12	REMOVE EXISTING SINK, FAUCET AND ASSOCIATED PIPING AND ACCESSORIES BACK TO WALL AND TEMPORARILY CAP FOR NEW SINK AND FAUCET UNDER NEW WORK. LABEL AND STORE ALL SINKS, FAUCETS AND ASSOCIATED PIPING AND ACCESSORIES FOR PUT BACK IN PRIOR LOCATION UPON COMPLETION OF STRUCTURAL REPAIRS. REFER TO ENLARGED TOILET PLANS ON A610.
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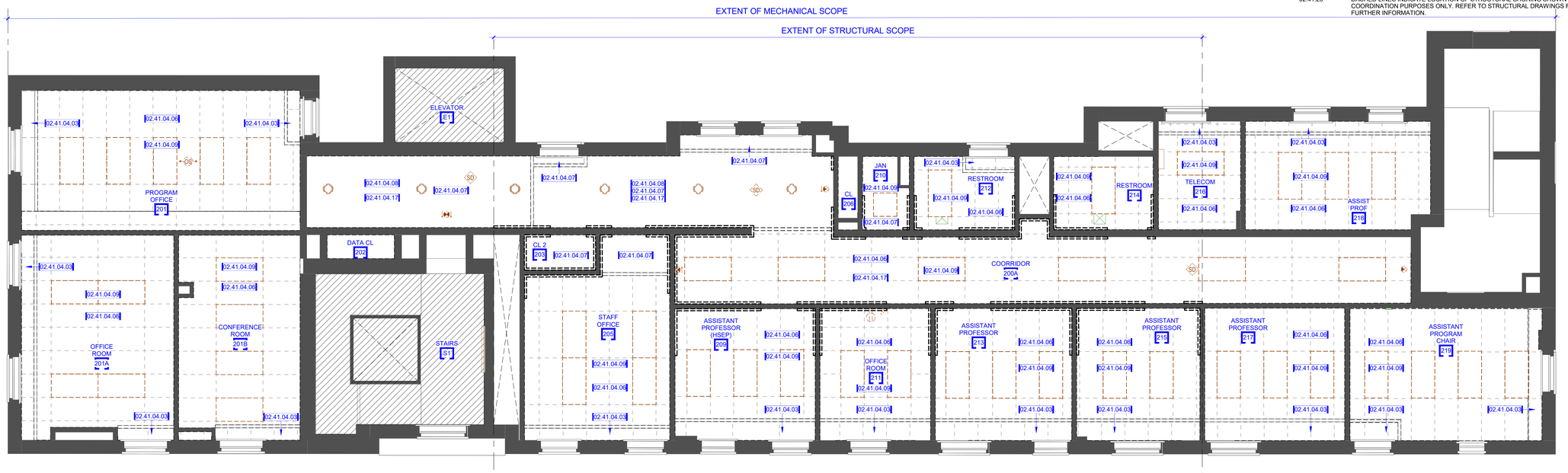
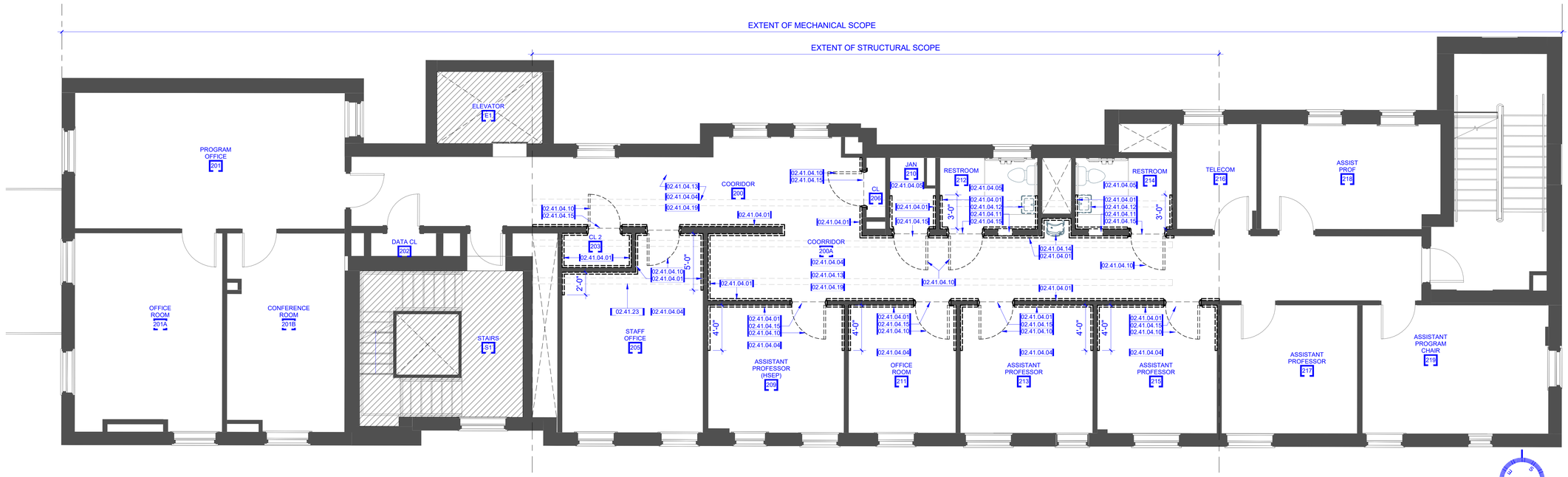
02.41.04.19	REMOVE ALL WALL BASE THROUGHOUT EXTENT OF STRUCTURAL WORK WHEREVER FINISH WALLS ARE TO BE DEMOLISHED. LABEL, SAVE, AND STORE WALL BASE FOR RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF CONSTRUCTION.
02.41.23	DASHED LINES INDICATE LOCATION OF STRUCTURAL SHORING SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.



6C D102 2ND FLOOR DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"



6A D102 2ND FLOOR DEMOLITION PLAN
1/4" = 1'-0"

Baskervill
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VIRGINIA COMMONWEALTH UNIVERSITY
DUNBAR
1025 BOULDERS PKWY, SUITE 310
RICHMOND, VIRGINIA 23225
(804) 323-0656
Project No.: 2107-17.WR
FISHER ENGINEERING

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400

COMMONWEALTH OF VIRGINIA
JAY L. WOODBURN
Lic. No. 10752
01/26/2024
ARCHITECT

PROJECT NUMBER
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SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

ISSUE
01/26/2024 - WORKING DRAWINGS 4

2ND FLOOR DEMOLITION PLAN & RCP

D102

REFLECTED CEILING PLAN LEGEND - DEMO

2' X 4' LIGHT FIXTURE TO BE AFFIXED TO STRUCTURE AND PROTECTED DURING DEMO

RECESSED DOWN LIGHT FIXTURE TO BE REMOVED AND SALVAGED FOR PUT BACK IN SAME LOCATION DURING NEW CONSTRUCTION

SUSPENDED CEILING SYSTEM TO BE REMOVED, SALVAGED, LABELED, AND STORED FOR REUSE

NOT IN CONTRACT

KEYNOTES

02.41.04.01 CUT AND REMOVE PORTION OF DRYWALL, FULL HEIGHT AS INDICATED ON PLAN. STUD FRAMING, WALL INSULATION (IF ANY) TO REMAIN DURING CONSTRUCTION. REMOVE, SALVAGE, LABEL, AND STORE RUBBER WALL BASE FOR REUSE IN SAME LOCATION AFTER CONSTRUCTION. LOCATE, IDENTIFY AND PROTECT ALL ELECTRICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE OF DEMOLITION LIMITS. MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF DEMOLITION LIMITS. COORDINATE WITH ELECTRICAL PLANS.

02.41.04.03 REMOVE CEILING GRID AND PANELS ABOVE WINDOW POCKET. LABEL UPON REMOVAL FOR RE-INSTALLATION IN SAME LOCATION. STORE AND SAVE DURING CONSTRUCTION. CEILING GRID AND PANELS TO BE RE-INSTALLED ONCE REPAIRS ARE COMPLETED.

02.41.04.04 REMOVE CARPET, PADDING AND ADHESIVE (IF ANY) AS INDICATED. LABEL UPON REMOVAL FOR RE-INSTALLATION IN SAME LOCATION. CARPET WILL BE RE-INSTALLED IN SAME ROOM ONCE REPAIRS ARE COMPLETED.

02.41.04.05 REMOVE VINYL FLOORING IN ITS ENTIRETY. REMOVE ALL GLUES AND PREPARE SUBFLOOR AS REQUIRED TO RECEIVE NEW FLOOR FINISHES WHEN REPAIRS ARE COMPLETED.

02.41.04.06 REMOVE CEILING GRID AND PANELS AS INDICATED. LABEL UPON REMOVAL FOR RE-INSTALLATION IN SAME LOCATION. STORE AND SAVE DURING CONSTRUCTION. CEILING WILL BE RE-INSTALLED IN SAME ROOM ONCE REPAIRS ARE COMPLETED.

02.41.04.07 REMOVE EXISTING DRYWALL CEILING.

KEYNOTES

02.41.04.08 ALL EXISTING RECESSED DOWN LIGHTS MOUNTED WITHIN GYPSUM CORRIDOR CEILINGS TO BE REMOVED. FIXTURES SHALL BE DISCONNECTED, REMOVED, LABELED, PROTECTED, AND STORED DURING DEMOLITION. INSTALL IN SAME LOCATIONS WITHIN NEW CEILINGS. COORDINATE WITH ELECTRICAL PLANS. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING DURING DEMOLITION IN THOSE CORRIDORS AS REQUIRED.

02.41.04.09 ALL EXISTING RECESSED FLUORESCENT 2'X2' AND 2'X4' LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF SUSPENDED CEILING COMPONENTS. CONTRACTOR SHALL PROTECT LIGHT FIXTURES FROM DAMAGE DURING CONSTRUCTION. CLEAN AND RE-LAMP AS REQUIRED.

02.41.04.10 REMOVE EXISTING DOOR AND DOOR FRAME. PROTECT AND SALVAGE DOOR FRAME AND ALL HARDWARE FOR RE-USE. PATCH AND REPAIR OPENING FOR NEW DOOR AS SCHEDULED.

02.41.04.11 REMOVE ALL TOILET ACCESSORIES WITHIN SCOPE OF DEMOLITION. STORE, SAVE AND RE-INSTALL IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED. REFER TO ENLARGED TOILET PLANS ON A610.

02.41.04.12 REMOVE EXISTING SINK, FAUCET AND ASSOCIATED PIPING AND ACCESSORIES BACK TO WALL AND TEMPORARILY CAP FOR NEW SINK AND FAUCET UNDER NEW WORK. LABEL AND STORE ALL SINKS, FAUCETS AND ASSOCIATED PIPING AND ACCESSORIES FOR PUT BACK IN PRIOR LOCATION UPON COMPLETION OF STRUCTURAL REPAIRS. REFER TO ENLARGED TOILET PLANS ON A610.

KEYNOTES

02.41.04.13 REMOVE SWITCH PLATES, SIGNAGE, AND ADHESIVE THROUGHOUT ENTIRE CONSTRUCTION AREA. LABEL, SAVE, AND RE-INSTALL IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED.

02.41.04.14 REMOVE EXISTING WATER COOLER AND ASSOCIATED PIPING AND ACCESSORIES BACK TO WALL AND TEMPORARILY CAP. LABEL, SALVAGE, AND STORE ALL WATER COOLERS AND ASSOCIATED PIPING AND ACCESSORIES FOR PUT BACK IN PRIOR LOCATION UPON COMPLETION OF STRUCTURAL REPAIRS.

02.41.04.15 REMOVE AND SALVAGE FLOORING TRANSISTION STRIPS FOR REUSE IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED.

02.41.04.17 ALL CEILING MOUNTED SIGNAGE TO BE REMOVED, LABELED ACCORDING TO LOCATION, AND STORED DURING CONSTRUCTION. RE-INSTALL IN SAME LOCATIONS AFTER CONSTRUCTION IS COMPLETE. COORDINATE WITH ELECTRICAL PLANS.

02.41.04.19 REMOVE ALL WALL BASE THROUGHOUT EXTENT OF STRUCTURAL WORK WHEREVER FINISH WALLS ARE TO BE DEMOLISHED. LABEL, SAVE, AND STORE WALL BASE FOR RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF CONSTRUCTION.

02.41.23 DASHED LINES INDICATE LOCATION OF STRUCTURAL SHORING SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.

6C D103 3RD FLOOR DEMOLITION REFLECTED CEILING PLAN 1/4" = 1'-0"

6A D103 3RD FLOOR DEMOLITION PLAN 1/4" = 1'-0"

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

DUNBAR
1025 BOULDERS PKWY, SUITE 310
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FISHER ENGINEERING

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SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

ISSUE
01/26/2024 - WORKING DRAWINGS 4

3RD FLOOR DEMOLITION PLAN & RCP

D103

REFLECTED CEILING PLAN LEGEND - DEMO

2' X 4' LIGHT FIXTURE TO BE AFFIXED TO STRUCTURE AND PROTECTED DURING DEMO

RECESSED DOWN LIGHT FIXTURE TO BE REMOVED AND SALVAGED FOR PUT BACK IN SAME LOCATION DURING NEW CONSTRUCTION

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KEYNOTES

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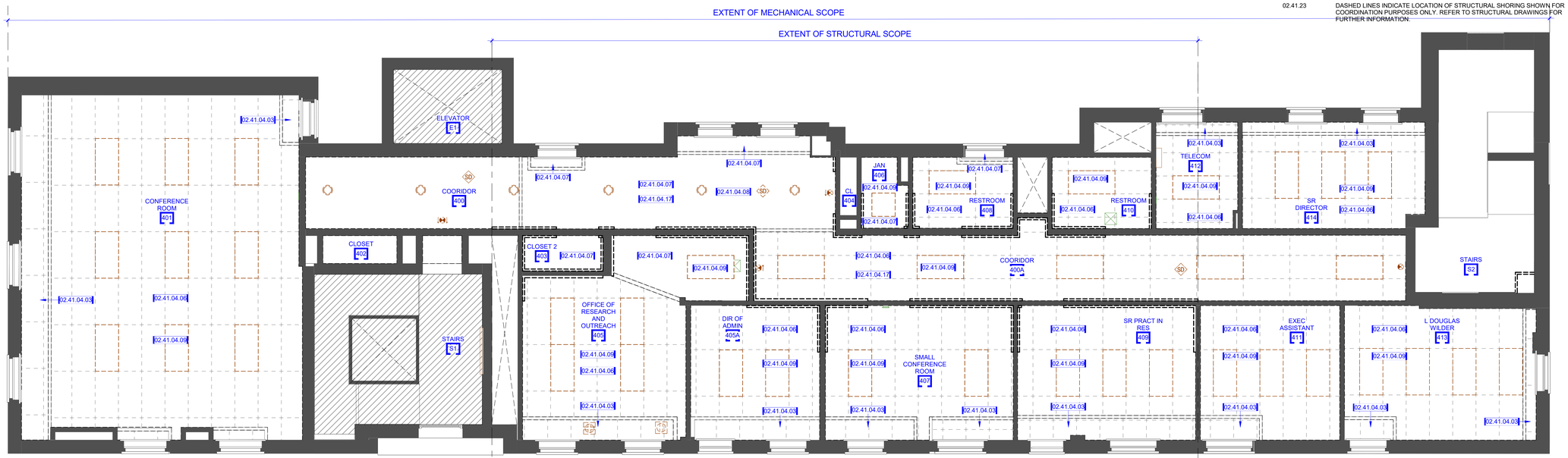
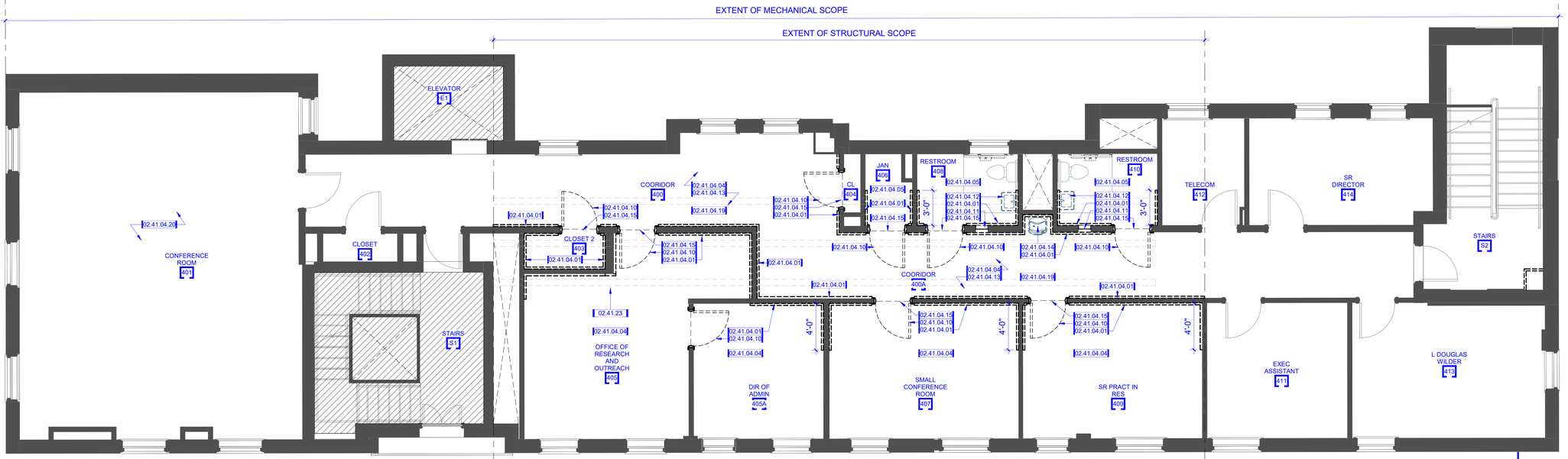
02.41.04.19 REMOVE ALL WALL BASE THROUGHOUT EXTENT OF STRUCTURAL WORK WHEREVER FINISH WALLS ARE TO BE DEMOLISHED. LABEL, SAVE, AND STORE WALL BASE FOR RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF CONSTRUCTION.

02.41.04.20 REMOVE EXISTING CARPET TILE FROM ROOM 401. PROTECT AND STORE DURING CONSTRUCTION. CARPET REMOVED FROM ROOM 401 TO SERVE AS ATTIC STOCK FOR IN KIND CARPET. REUSE CARPET TILES UPON COMPLETION OF CONSTRUCTION AS NEEDED TO INFILL AND REPAIR THROUGHOUT BUILDING.

02.41.23 DASHED LINES INDICATE LOCATION OF STRUCTURAL SHORING SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.



6C D104 4TH FLOOR DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"



6A D104 4TH FLOOR DEMOLITION PLAN
1/4" = 1'-0"

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

Baskervill
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Project No.: 2107-17.WR
FISHER ENGINEERING
BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400
COMMONWEALTH OF VIRGINIA
JAY L. WOODBURN
Lic.No. 10752
01/26/2024
ARCHITECT

PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

ISSUE
01/26/2024 - WORKING DRAWINGS 4

4TH FLOOR DEMOLITION PLAN & RCP

D104

REFLECTED CEILING PLAN LEGEND - DEMO

2' X 4' LIGHT FIXTURE TO BE AFFIXED TO STRUCTURE AND PROTECTED DURING DEMO

RECESSED DOWN LIGHT FIXTURE TO BE REMOVED AND SALVAGED FOR PUT BACK IN SAME LOCATION DURING NEW CONSTRUCTION

SUSPENDED CEILING SYSTEM TO BE REMOVED, SALVAGED, LABELED, AND STORED FOR REUSE

NOT IN CONTRACT

KEYNOTES

02.41.04.01 CUT AND REMOVE PORTION OF DRYWALL, FULL HEIGHT AS INDICATED ON PLAN. STUD FRAMING, WALL INSULATION (IF ANY) TO REMAIN DURING CONSTRUCTION. REMOVE, SALVAGE, LABEL, AND STORE RUBBER WALL BASE FOR REUSE IN SAME LOCATION AFTER CONSTRUCTION. LOCATE, IDENTIFY AND PROTECT ALL ELECTRICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE OF DEMOLITION LIMITS. MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF DEMOLITION LIMITS. COORDINATE WITH ELECTRICAL PLANS.

02.41.04.06 REMOVE CEILING GRID AND PANELS AS INDICATED. LABEL UPON REMOVAL FOR RE-INSTALLATION IN SAME LOCATION. STORE AND SAVE DURING CONSTRUCTION. CEILING WILL BE RE-INSTALLED IN SAME ROOM ONCE REPAIRS ARE COMPLETED.

02.41.04.09 ALL EXISTING RECESSED FLUORESCENT 2'X2' AND 2'X4' LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF SUSPENDED CEILING COMPONENTS. CONTRACTOR SHALL PROTECT LIGHT FIXTURES FROM DAMAGE DURING CONSTRUCTION. CLEAN AND RE-LAMP AS REQUIRED.

02.41.04.10 REMOVE EXISTING DOOR AND DOOR FRAME. PROTECT AND SALVAGE DOOR FRAME AND ALL HARDWARE FOR RE-USE. PATCH AND REPAIR OPENING FOR NEW DOOR AS SCHEDULED.

02.41.04.11 REMOVE ALL TOILET ACCESSORIES WITHIN SCOPE OF DEMOLITION. STORE, SAVE AND RE-INSTALL IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED. REFER TO ENLARGED TOILET PLANS ON A610.

KEYNOTES

02.41.04.12 REMOVE EXISTING SINK, FAUCET AND ASSOCIATED PIPING AND ACCESSORIES BACK TO WALL AND TEMPORARILY CAP FOR NEW SINK AND FAUCET UNDER NEW WORK. LABEL AND STORE ALL SINKS, FAUCETS AND ASSOCIATED PIPING AND ACCESSORIES FOR PUT BACK IN PRIOR LOCATION UPON COMPLETION OF STRUCTURAL REPAIRS. REFER TO ENLARGED TOILET PLANS ON A610.

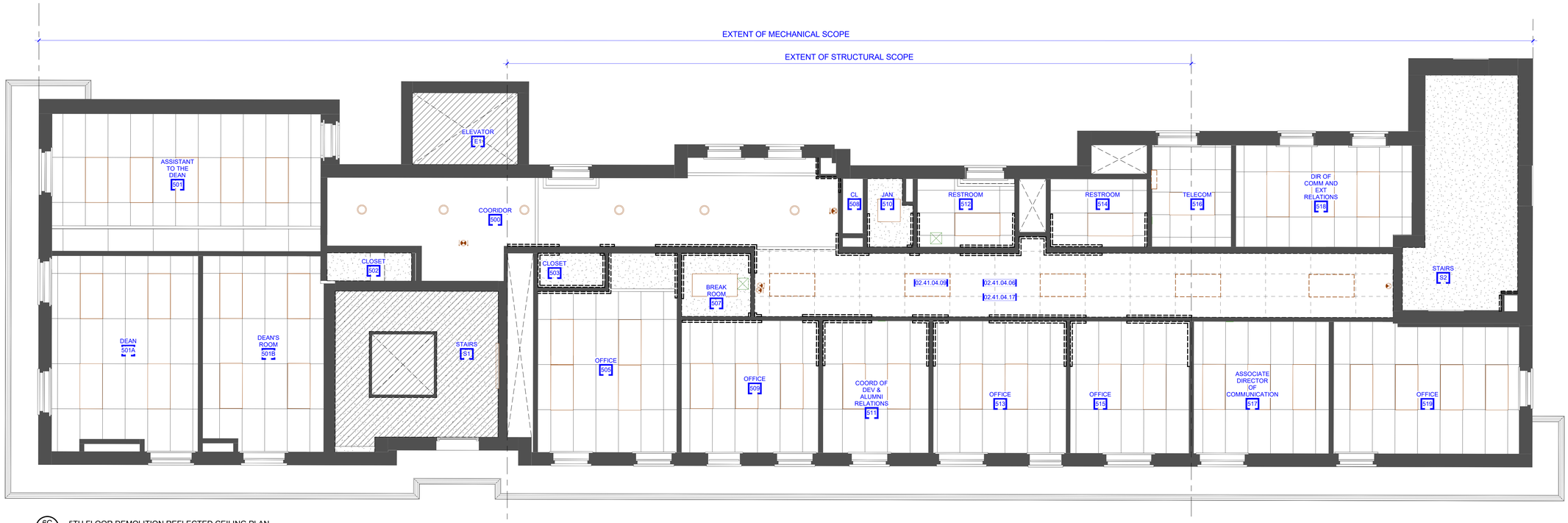
02.41.04.13 REMOVE SWITCH PLATES, SIGNAGE, AND ADHESIVE THROUGHOUT ENTIRE CONSTRUCTION AREA. LABEL, SAVE, AND RE-INSTALL IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED.

02.41.04.14 REMOVE EXISTING WATER COOLER AND ASSOCIATED PIPING AND ACCESSORIES BACK TO WALL AND TEMPORARILY CAP. LABEL, SALVAGE, AND STORE ALL WATER COOLERS AND ASSOCIATED PIPING AND ACCESSORIES FOR PUT BACK IN PRIOR LOCATION UPON COMPLETION OF STRUCTURAL REPAIRS.

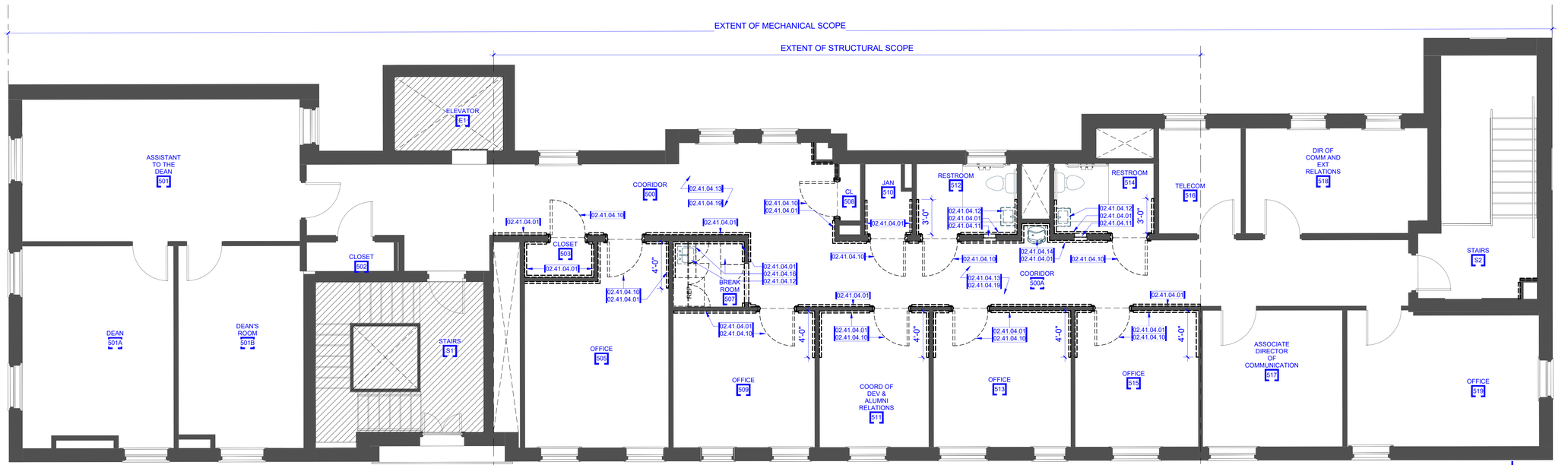
02.41.04.16 REMOVE EXISTING COUNTERTOPS, CASEWORK, AND HARDWARE AS SHOWN. PROTECT AND STORE FOR RE-INSTALLATION IN SAME LOCATION ONCE REPAIRS ARE COMPLETED.

02.41.04.17 ALL CEILING MOUNTED SIGNAGE TO BE REMOVED, LABELED ACCORDING TO LOCATION, AND STORED DURING CONSTRUCTION. RE-INSTALL IN SAME LOCATIONS AFTER CONSTRUCTION IS COMPLETE. COORDINATE WITH ELECTRICAL PLANS.

02.41.04.19 REMOVE ALL WALL BASE THROUGHOUT EXTENT OF STRUCTURAL WORK WHEREVER FINISH WALLS ARE TO BE DEMOLISHED. LABEL, SAVE, AND STORE WALL BASE FOR RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF CONSTRUCTION.



6C 5TH FLOOR DEMOLITION REFLECTED CEILING PLAN
D105 1/4" = 1'-0"



6 5TH FLOOR DEMOLITION PLAN
D105 1/4" = 1'-0"

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400

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5TH FLOOR DEMOLITION PLAN & RCP

D105

REFLECTED CEILING PLAN LEGEND

- 2'x2' LIGHT FIXTURE
- 2'x4' LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- STRIP FLUORESCENT LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EMERGENCY WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACKUP - REFER TO ELEC.
- EXIT SIGN
- SPRINKLER
- EXHAUST GRILLE
- RETURN GRILLE
- SUPPLY DIFFUSER
- SUSPENDED CEILING SYSTEM
- NOT IN CONTRACT

REFLECTED CEILING PLAN NOTES

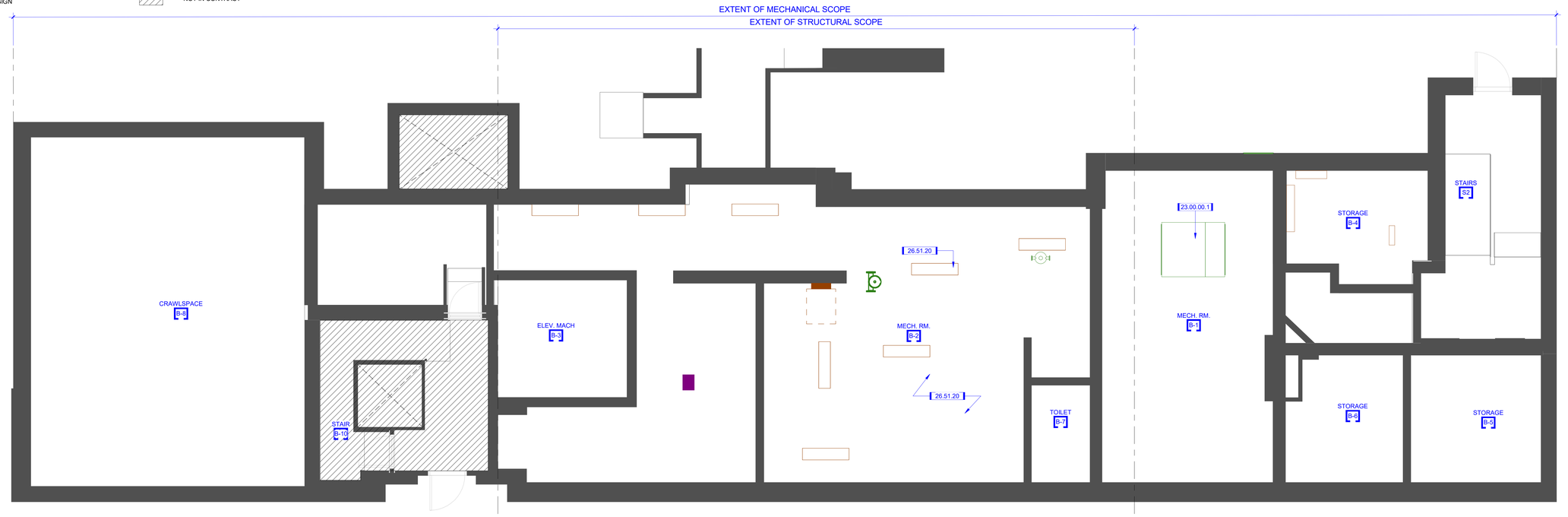
1. THE REFLECTED CEILING PLAN PROVIDES INFORMATION CONCERNING THE LOCATIONS OF LIGHTS, CEILING FIXTURES, HVAC GRILLES, ETC. REFER TO THE REFLECTED CEILING PLAN FOR LOCATIONS ONLY. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR APPLICABLE ENGINEERING INFORMATION.
2. SPRINKLER HEADS ARE NOT INDICATED. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER REQUIREMENTS AND INFORMATION.
3. CEILING FIXTURES INCLUDING GRILLES, DIFFUSERS, INCANDESCENT LIGHTS, ETC. ARE TO BE LOCATED IN THE SAME LOCATION AS EXISTING IN ACOUSTIC CEILING PANELS UNLESS NOTED OTHERWISE.
4. ALL CEILING HEIGHTS NOTED ARE ABOVE FINISHED FLOOR (A.F.F.) STRUCTURAL REPAIRS MAY REQUIRE THAT NOTED CEILING HEIGHTS ADJUST IN SOME AREAS. COORDINATE FINAL CEILING HEIGHTS WITH MECHANICAL DRAWINGS AND UPON COMPLETION OF STRUCTURAL REPAIRS.

KEYNOTES

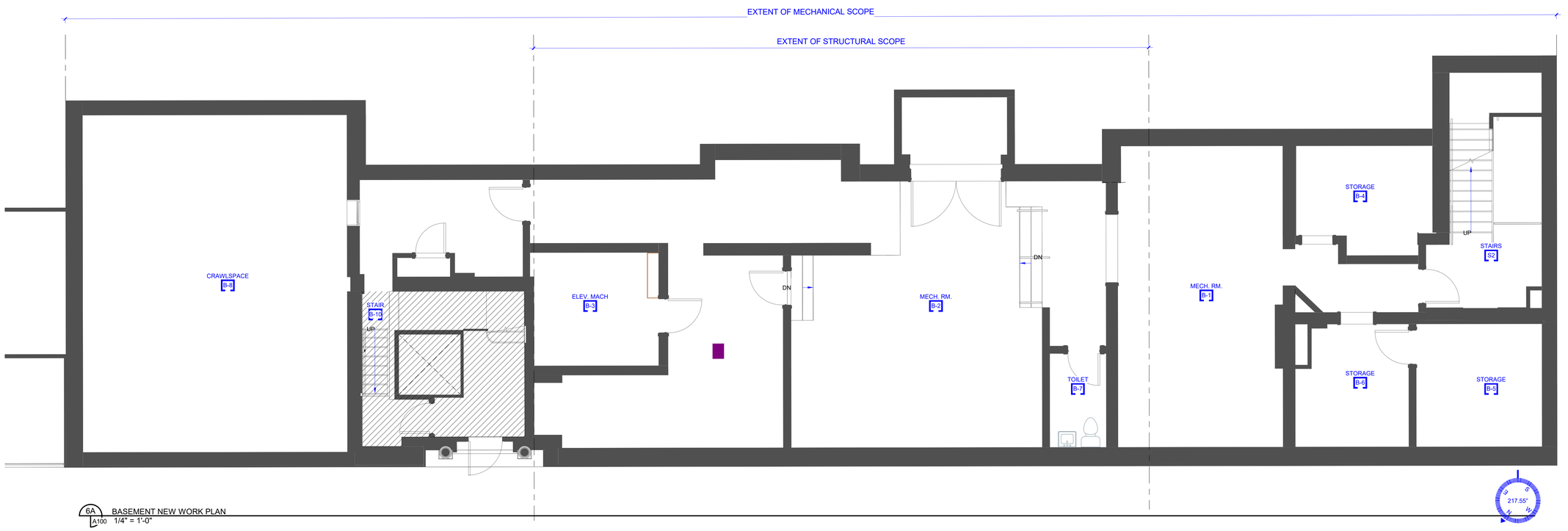
23.00.00.1	MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26.51.20	ALL LIGHTING THROUGHOUT BASEMENT EXISTING TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL BASEMENT NOTES

1. NO ARCHITECTURAL DEMOLITION SCOPE INCLUDED IN THE BASEMENT LEVEL OF THE PROJECT.
2. INCLUSION OF BASEMENT LEVEL PLANS IN THE ARCHITECTURAL DRAWING SET IT TO DENOTE THE EXTENT OF THE SCOPE OF WORK FOR OTHER DISCIPLINES. SEE MEP AND STRUCTURAL DRAWINGS FOR DETAILS AND INFORMATION REGARDING THE BASEMENT LEVEL.



6C A100 BASEMENT FLOOR PLAN 1/4" = 1'-0"



6A A100 BASEMENT NEW WORK PLAN 1/4" = 1'-0"

0' 2' 4' 6' 8' 10' 12'
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01/26/2024 - WORKING DRAWINGS 4

BASEMENT NEW WORK FLOOR PLAN & RCP

A100

REFLECTED CEILING PLAN LEGEND

- 2'x2' LIGHT FIXTURE
- 2'x4' LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- STRIP FLUORESCENT LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EMERGENCY WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACKUP - REFER TO ELEC.
- EXIT SIGN
- SPRINKLER
- EXHAUST GRILLE
- RETURN GRILLE
- SUPPLY DIFFUSER
- SUSPENDED CEILING SYSTEM
- NOT IN CONTRACT

PARTITION INDICATIONS LEGEND

- EXISTING PARTITION TO REMAIN
- NEW DRYWALL

FINISH LEGEND

- CPT-03
- VCT-01

KEYNOTES

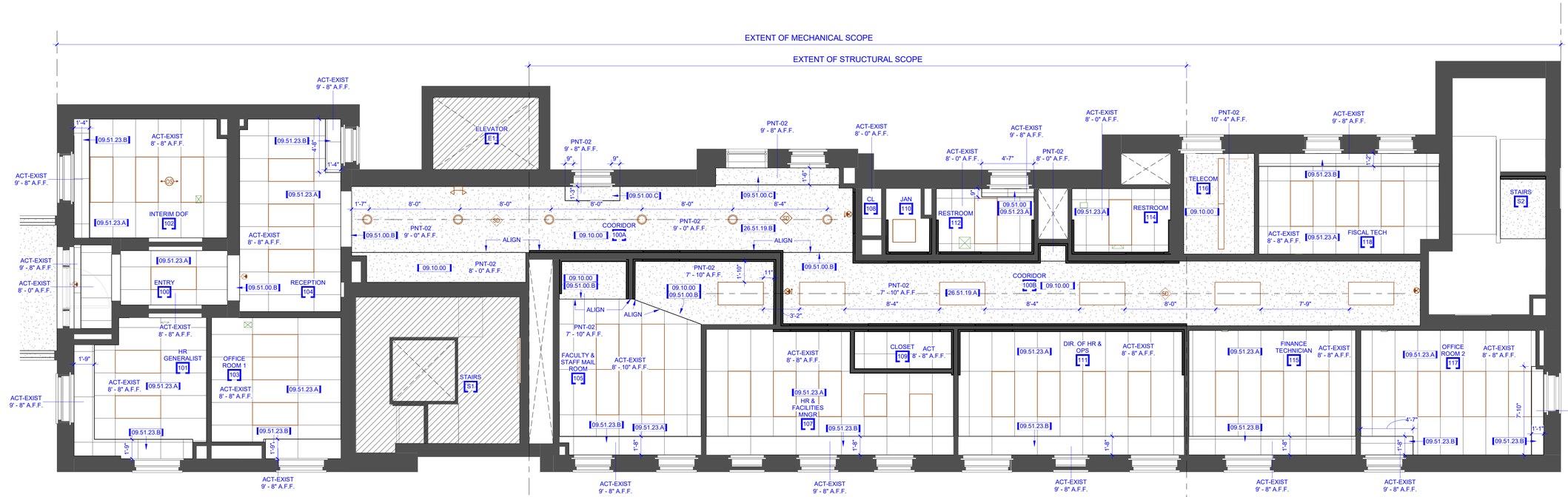
02.41.24	LIMITED SCOPE OF WORK TO INCLUDE PAINT ONLY AS INDICATED BY STRUCTURAL DRAWINGS
08.11.13	NEW WOOD DOOR IN EXISTING DOOR FRAME. REF. DOOR SCHEDULE. RE-USE HARDWARE SAVED FROM DEMOLITION.
08.14.16	RE-INSTALL DOOR FRAME SAVED FROM DEMOLITION, LEVEL AND PLUMB SO REVEAL AROUND DOOR IS EVEN. RE- USE EXISTING HARDWARE.
09.10.00	2-HR FIRE RATED DUCT SHAFT WITH UL DESIGN U438 PER 1990 STATE REVIEWED RECORD DRAWINGS BY BALLOU JUSTICE UPTON ASSOCIATES ARCHITECTS
09.29.00	REPLACE ALL REMOVED DRYWALL WITH NEW 5/8" GYP. BD. INSTALL GYP. BD AS REQUIRED FOR FLUSH SURFACES IN ALL NEW FINISHED SPACE. TAPE, PRIME AND PAINT TO MATCH EXISTING ADJACENT WALLS. ONCE GYP IS INSTALLED, REPLACE WALL BASE SALVAGED FROM DEMOLITION BACK INTO PLACE.
09.51.00	NEW SUSPENDED CEILING: 5/8" GYPSUM BOARD ON SUSPENDED METAL STUD FRAMING. FINISH AND PAINT TO MATCH EXISTING, PNT-02 FLAT.
09.51.00.B	NEW BULKHEAD - REFER TO DETAIL AS CALLED OUT.
09.51.00.C	WINDOW POCKET - NEW DRYWALL SOFFIT TO MATCH HEIGHT AND SIZE OF EXISTING. REFER TO DETAIL AS CALLED OUT.
09.51.23.A	RE- INSTALL CEILING GRID AND PANELS SALVAGED FROM DEMOLITION. CEILING WILL BE RE-INSTALLED IN SAME ROOM REMOVED FROM DURING DEMO. COORDINATE WITH ELECTRICAL FOR LIGHT FIXTURE LAYOUT. IF NEEDED REPLACE DAMAGED PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.

KEYNOTES

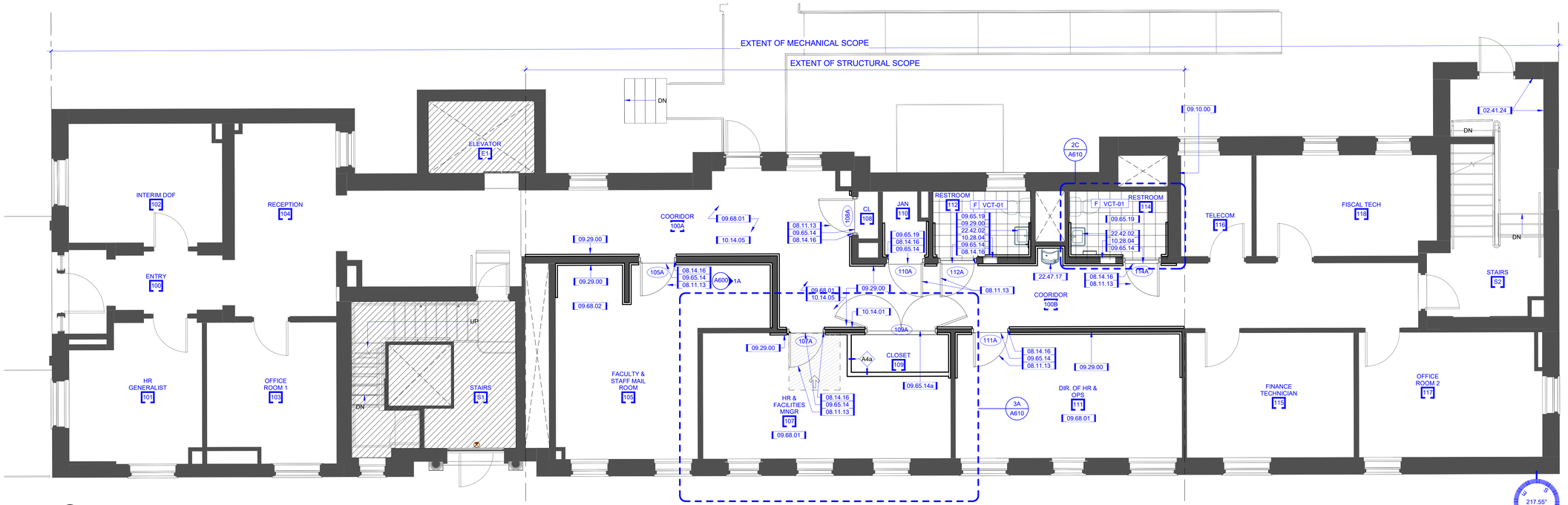
09.51.23.B	RE-INSTALL SUSPENDED CEILING SYSTEM ABOVE WINDOW POCKETS. RE USE GRID AND PANELS FROM DEMOLITION. IF NEEDED PROVIDE NEW GRID TO MATCH EXISTING AND REPLACE PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.
09.65.14	RE-INSTALL FLOORING TRANSITION STRIPS SALVAGED DURING DEMOLITION BACK INTO PLACE. REFER TO FLOOR TRANSITION DETAILS ON SHEET A600.
09.65.14a	INSTALL FLOORING TRANSITION STRIP. REFER TO FLOOR TRANSITION DETAILS ON SHEET A600
09.65.19	RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PROVIDE AND INSTALL NEW RESILIENT FLOORING, VCT-01. REFER TO FINISH SCHEDULE.
09.68.01	RE-INSTALL SALVAGED CARPET AND PAD IN SAME INSTALLATION DIRECTION, QUARTER TURN, AND SAME ROOMS AS EXISTING. IF NEEDED REPLACE DAMAGED CARPET WITH ATTIC STOCK RESERVED FROM DEMOLITION OF ROOM 401. RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PATCH AND REPAIR TO MATCH EXISTING IF NEEDED.
09.68.02	RE-INSTALL SALVAGED LVT IN SAME INSTALLATION DIRECTION AS EXISTING. RE-INSTALL SALVAGED WALL BASE. PATCH AND REPAIR TO MATCH EXISTING AS NEEDED.
10.14.01	INSTALL SIGNAGE ON RIGHT SIDE OF DOUBLE-DOOR ENTRY FOR BACKFLOW PREVENTER CLOSET. SHALL COMPLY WITH 2010 ADA STANDARDS FOR ACCESIBLE DESIGN SECTION 703.4

KEYNOTES

10.14.05	RE-INSTALL EXISTING SIGNAGE. SIGNAGE WILL BE AT SAME HEIGHT AND SAME LOCATIONS AS PREVIOUS INSTALLATION. COORDINATE WITH ELECTRICAL PLANS.
10.28.04	RE-INSTALL ALL TOILET ACCESSORIES SALVAGED AND STORED DURING CONSTRUCTION BACK INTO PLACE. CONFIRM THAT ACCESSORY LOCATIONS MEET ADA REQUIREMENTS. REFER TO ENLARGED PLANS AND MOUNTING HEIGHT DIAGRAMS ON A610.
22.42.02	RE-INSTALL SALVAGED SINK AND FAUCET. CONNECT TO EXISTING PIPING. RE-INSTALL COMPLETE WITH SALVAGED P-TRAP, ANGLE VALVES AND FLEXIBLE CONNECTIONS. PROVIDE COMPLETE WITH ASSE 1070 THERMOSTATIC MIXING VALVE SET AT 95 DEG. F. DISCHARGE TEMPERATURE.
22.47.17	RE-INSTALL WATER COOLER. CONNECT TO EXISTING PIPING. PROVIDE COMPLETE WITH NEW P-TRAP, ANGLE VALVES AND FLEXIBLE CONNECTIONS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
26.51.19.A	ALL 2X4 LIGHTING SECURED TO STRUCTURE DURING DEMO TO BE PLACED BACK INTO GRID AS SHOWN ON PLANS. COORDINATE WITH ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26.51.19.B	ALL RECESSED DOWNLIGHTS REMOVED AND STORED DURING DEMO TO BE RELOCATED INTO NEW GYP CEILINGS WHERE SHOWN. COORDINATE WITH ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



6C A101 1ST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



6A A101 1ST FLOOR NEW WORK PLAN
1/4" = 1'-0"

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COMMONWEALTH OF VIRGINIA
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01/26/2024 - WORKING DRAWINGS 4

1ST FLOOR NEW WORK PLAN & RCP

A101

REFLECTED CEILING PLAN LEGEND

- 2'x2' LIGHT FIXTURE
- 2'x4' LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- STRIP FLUORESCENT LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EMERGENCY WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACKUP - REFER TO ELEC.
- EXIT SIGN
- SPRINKLER
- EXHAUST GRILLE
- RETURN GRILLE
- SUPPLY DIFFUSER
- SUSPENDED CEILING SYSTEM
- NOT IN CONTRACT

PARTITION INDICATIONS LEGEND

- EXISTING PARTITION TO REMAIN
- NEW DRYWALL

FINISH LEGEND

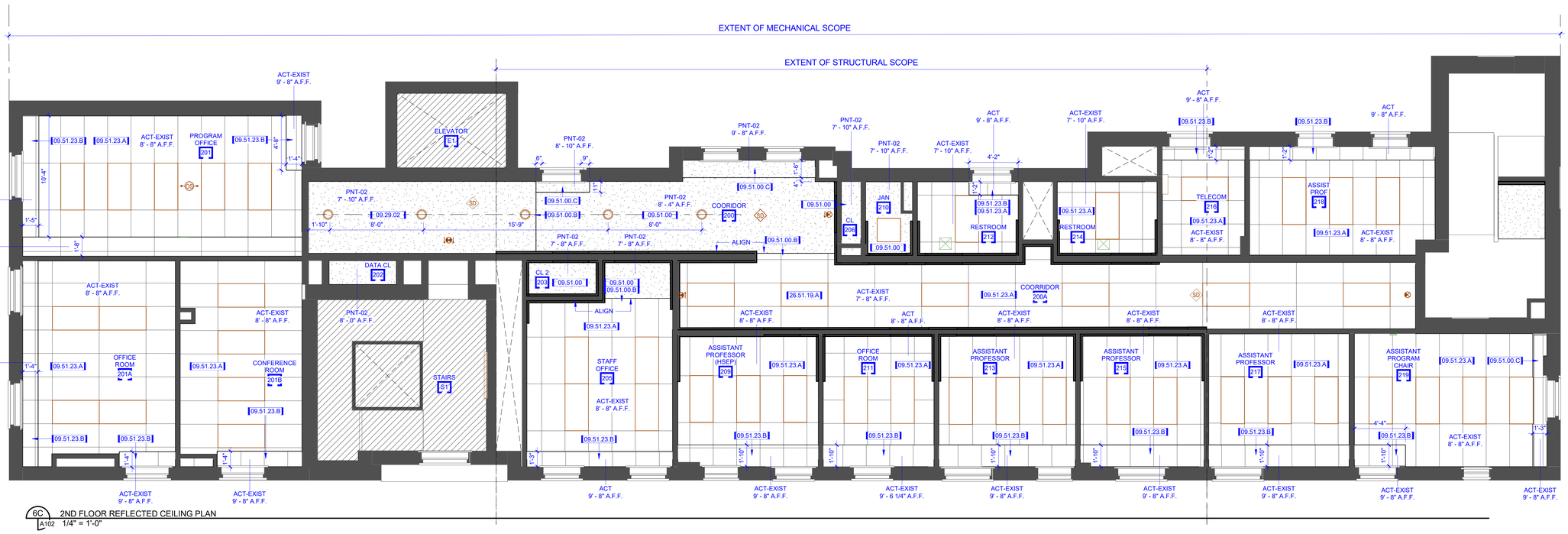
- CPT-03
- VCT-01

KEYNOTES

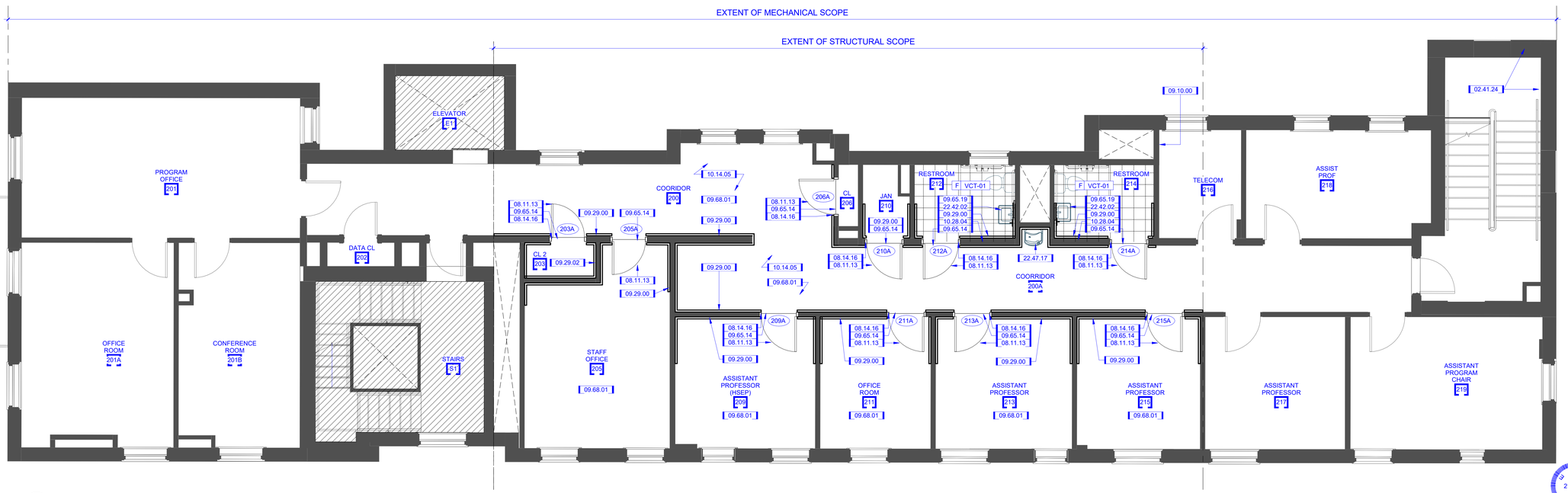
02.41.24	LIMITED SCOPE OF WORK TO INCLUDE PAINT ONLY AS INDICATED BY STRUCTURAL DRAWINGS
08.11.13	NEW WOOD DOOR IN EXISTING DOOR FRAME. REF. DOOR SCHEDULE. RE-USE HARDWARE SAVED FROM DEMOLITION.
08.14.16	RE-INSTALL DOOR FRAME SAVED FROM DEMOLITION, LEVEL AND PLUMB SO REVEAL AROUND DOOR IS EVEN. RE- USE EXISTING HARDWARE.
09.10.00	2-HR FIRE RATED DUCT SHAFT WITH UL DESIGN U438 PER 1990 STATE REVIEWED RECORD DRAWINGS BY BALLOU JUSTICE UPTON ASSOCIATES ARCHITECTS
09.29.00	REPLACE ALL REMOVED DRYWALL WITH NEW 5/8" GYP. BD. INSTALL GYP. BD AS REQUIRED FOR FLUSH SURFACES IN ALL NEW FINISHED SPACE. TAPE, PRIME AND PAINT TO MATCH EXISTING ADJACENT WALLS. ONCE GYP IS INSTALLED, REPLACE WALL BASE SALVAGED FROM DEMOLITION BACK INTO PLACE.
09.29.02	PROVIDE NEW GYPSUM BOARD CEILING, PAINT AND FINISH TO MATCH EXISTING. COORDINATE WITH ELECTRICAL FOR LIGHT FIXTURE LOCATIONS.
09.51.00	NEW SUSPENDED CEILING: 5/8" GYPSUM BOARD ON SUSPENDED METAL STUD FRAMING. FINISH AND PAINT TO MATCH EXISTING, PNT-02 FLAT.
09.51.00.B	NEW BULKHEAD - REFER TO DETAIL AS CALLED OUT.
09.51.00.C	WINDOW POCKET - NEW DRYWALL SOFFIT TO MATCH HEIGHT AND SIZE OF EXISTING. REFER TO DETAIL AS CALLED OUT.
09.51.23.A	RE- INSTALL CEILING GRID AND PANELS SALVAGED FROM DEMOLITION. CEILING WILL BE RE-INSTALLED IN SAME ROOM REMOVED FROM DURING DEMO. COORDINATE WITH ELECTRICAL FOR LIGHT FIXTURE LAYOUT. IF NEEDED REPLACE DAMAGED PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.

KEYNOTES

09.51.23.B	RE-INSTALL SUSPENDED CEILING SYSTEM ABOVE WINDOW POCKETS. RE USE GRID AND PANELS FROM DEMOLITION. IF NEEDED PROVIDE NEW GRID TO MATCH EXISTING AND REPLACE PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.
09.65.14	RE-INSTALL FLOORING TRANSITION STRIPS SALVAGED DURING DEMOLITION BACK INTO PLACE. REFER TO FLOOR TRANSITION DETAILS ON SHEET A600.
09.65.19	RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PROVIDE AND INSTALL NEW RESILIENT FLOORING, VCT-01. REFER TO FINISH SCHEDULE.
09.68.01	RE-INSTALL SALVAGED CARPET AND PAD IN SAME INSTALLATION DIRECTION, QUARTER TURN, AND SAME ROOMS AS EXISTING. IF NEEDED REPLACE DAMAGED CARPET WITH ATTIC STOCK RESERVED FROM DEMOLITION OF ROOM 401. RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PATCH AND REPAIR TO MATCH EXISTING IF NEEDED.
10.14.05	RE-INSTALL EXISTING SIGNAGE. SIGNAGE WILL BE AT SAME HEIGHT AND SAME LOCATIONS AS PREVIOUS INSTALLATION. COORDINATE WITH ELECTRICAL PLANS.
10.28.04	RE-INSTALL ALL TOILET ACCESSORIES SALVAGED AND STORED DURING CONSTRUCTION BACK INTO PLACE. CONFIRM THAT ACCESSORY LOCATIONS MEET ADA REQUIREMENTS. REFER TO ENLARGED PLANS AND MOUNTING HEIGHT DIAGRAMS ON A610.
22.42.02	RE-INSTALL SALVAGED SINK AND FAUCET. CONNECT TO EXISTING PIPING. RE-INSTALL COMPLETE WITH SALVAGED P-TRAP, ANGLE VALVES AND FLEXIBLE CONNECTIONS. PROVIDE COMPLETE WITH ASSE 1070 THERMOSTATIC MIXING VALVE SET AT 95 DEG. F. DISCHARGE TEMPERATURE.
22.47.17	RE-INSTALL WATER COOLER. CONNECT TO EXISTING PIPING. PROVIDE COMPLETE WITH NEW P-TRAP, ANGLE VALVES AND FLEXIBLE CONNECTIONS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
26.51.19.A	ALL 2X4 LIGHTING SECURED TO STRUCTURE DURING DEMO TO BE PLACED BACK INTO GRID AS SHOWN ON PLANS. COORDINATE WITH ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



6C A102 2ND FLOOR REFLECTED CEILING PLAN 1/4" = 1'-0"



6A A102 2ND FLOOR NEW WORK PLAN 1/4" = 1'-0"

DUNBAR
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0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

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2ND FLOOR NEW WORK PLAN & RCP

A102

REFLECTED CEILING PLAN LEGEND

- 2'x2' LIGHT FIXTURE
- 2'x4' LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- STRIP FLUORESCENT LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EMERGENCY WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACKUP - REFER TO ELEC.
- EXIT SIGN
- SPRINKLER
- EXHAUST GRILLE
- RETURN GRILLE
- SUPPLY DIFFUSER
- SUSPENDED CEILING SYSTEM
- NOT IN CONTRACT

PARTITION INDICATIONS LEGEND

- EXISTING PARTITION TO REMAIN
- NEW DRYWALL

FINISH LEGEND

- CPT-03
- VCT-01

KEYNOTES

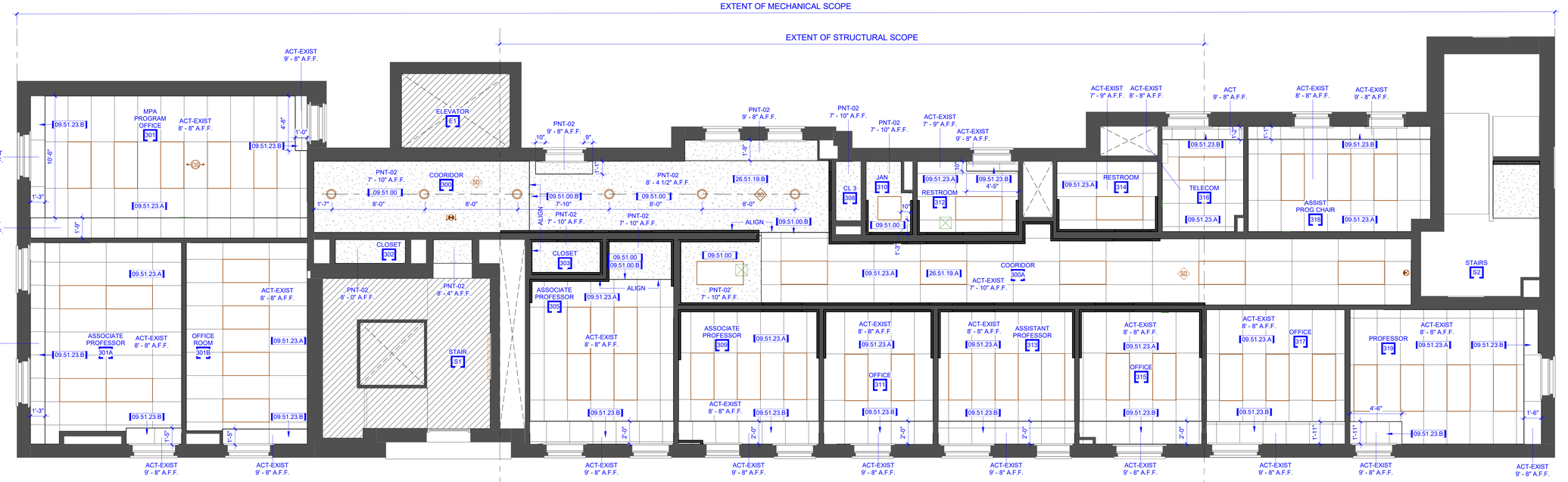
02.41.24	LIMITED SCOPE OF WORK TO INCLUDE PAINT ONLY AS INDICATED BY STRUCTURAL DRAWINGS
08.11.13	NEW WOOD DOOR IN EXISTING DOOR FRAME. REF. DOOR SCHEDULE. RE-USE HARDWARE SAVED FROM DEMOLITION.
08.14.16	RE-INSTALL DOOR FRAME SAVED FROM DEMOLITION, LEVEL AND PLUMB SO REVEAL AROUND DOOR IS EVEN. RE- USE EXISTING HARDWARE.
09.10.00	2-HR FIRE RATED DUCT SHAFT WITH UL DESIGN U438 PER 1990 STATE REVIEWED RECORD DRAWINGS BY BALLOU JUSTICE UPTON ASSOCIATES ARCHITECTS
09.29.00	REPLACE ALL REMOVED DRYWALL WITH NEW 5/8" GYP. BD. INSTALL GYP. BD AS REQUIRED FOR FLUSH SURFACES IN ALL NEW FINISHED SPACE. TAPE, PRIME AND PAINT TO MATCH EXISTING ADJACENT WALLS. ONCE GYP IS INSTALLED, REPLACE WALL BASE SALVAGED FROM DEMOLITION BACK INTO PLACE.
09.51.00	NEW SUSPENDED CEILING: 5/8" GYPSUM BOARD ON SUSPENDED METAL STUD FRAMING. FINISH AND PAINT TO MATCH EXISTING, PNT-02 FLAT.
09.51.00.B	NEW BULKHEAD - REFER TO DETAIL AS CALLED OUT.
09.51.23.A	RE- INSTALL CEILING GRID AND PANELS SALVAGED FROM DEMOLITION. CEILING WILL BE RE-INSTALLED IN SAME ROOM REMOVED FROM DURING DEMO. COORDINATE WITH ELECTRICAL FOR LIGHT FIXTURE LAYOUT. IF NEEDED REPLACE DAMAGED PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.

KEYNOTES

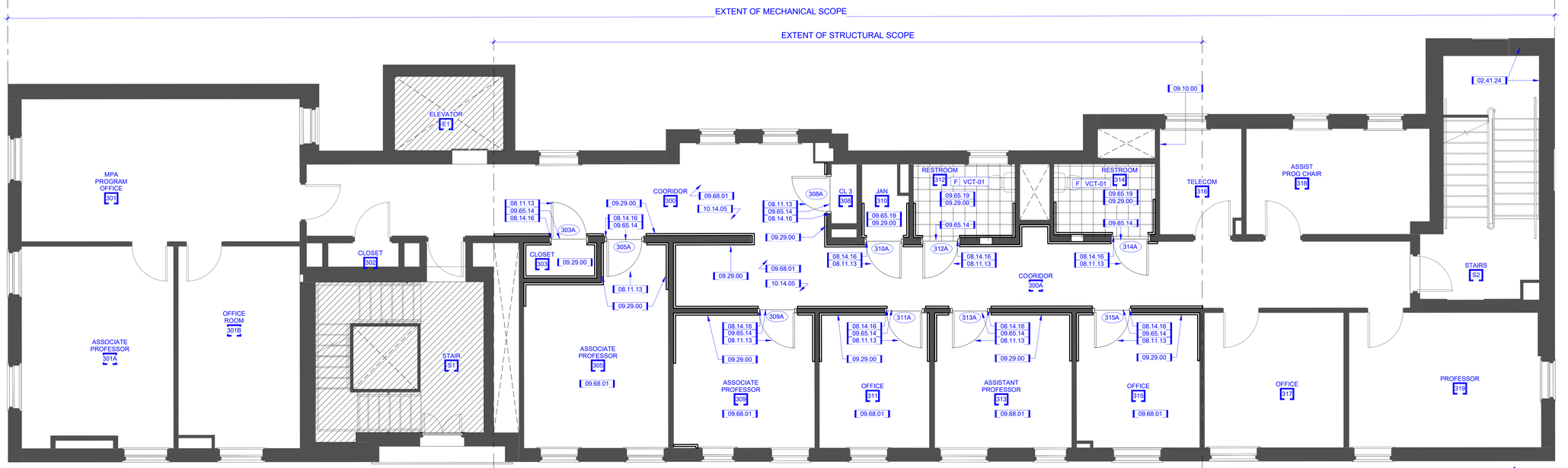
09.51.23.B	RE-INSTALL SUSPENDED CEILING SYSTEM ABOVE WINDOW POCKETS. RE USE GRID AND PANELS FROM DEMOLITION. IF NEEDED PROVIDE NEW GRID TO MATCH EXISTING AND REPLACE PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.
09.65.14	RE-INSTALL FLOORING TRANSITION STRIPS SALVAGED DURING DEMOLITION BACK INTO PLACE. REFER TO FLOOR TRANSITION DETAILS ON SHEET A600.
09.65.19	RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PROVIDE AND INSTALL NEW RESILIENT FLOORING, VCT-01. REFER TO FINISH SCHEDULE.
09.68.01	RE-INSTALL SALVAGED CARPET AND PAD IN SAME INSTALLATION DIRECTION, QUARTER TURN, AND SAME ROOMS AS EXISTING. IF NEEDED REPLACE DAMAGED CARPET WITH ATTIC STOCK RESERVED FROM DEMOLITION OF ROOM 401. RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PATCH AND REPAIR TO MATCH EXISTING IF NEEDED.
10.14.05	RE-INSTALL EXISTING SIGNAGE. SIGNAGE WILL BE AT SAME HEIGHT AND SAME LOCATIONS AS PREVIOUS INSTALLATION. COORDINATE WITH ELECTRICAL PLANS.

KEYNOTES

26.51.19.A	ALL 2X4 LIGHTING SECURED TO STRUCTURE DURING DEMO TO BE PLACED BACK INTO GRID AS SHOWN ON PLANS. COORDINATE WITH ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26.51.19.B	ALL RECESSED DOWNLIGHTS REMOVED AND STORED DURING DEMO TO BE RELOCATED INTO NEW GYP CEILINGS WHERE SHOWN. COORDINATE WITH ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



6C A103 3RD FLOOR REFLECTED CEILING PLAN(1/4" = 1'-0"



6A A103 3RD FLOOR NEW WORK PLAN 1/4" = 1'-0"

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

Baskerville

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COMMONWEALTH OF VIRGINIA
JAY L. WOODBURN
Lic. No. 10752
01/26/2024
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PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

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RICHMOND, VA 23284

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01/26/2024 - WORKING DRAWINGS 4

3RD FLOOR NEW WORK PLAN & RCP

A103

REFLECTED CEILING PLAN LEGEND

- 2'x2' LIGHT FIXTURE
- 2'x4' LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- STRIP FLUORESCENT LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EMERGENCY WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACKUP - REFER TO ELEC.
- EXIT SIGN
- SPRINKLER
- EXHAUST GRILLE
- RETURN GRILLE
- SUPPLY DIFFUSER
- SUSPENDED CEILING SYSTEM
- NOT IN CONTRACT

PARTITION INDICATIONS LEGEND

- EXISTING PARTITION TO REMAIN
- NEW DRYWALL

FINISH LEGEND

- CPT-03
- VCT-01

KEYNOTES

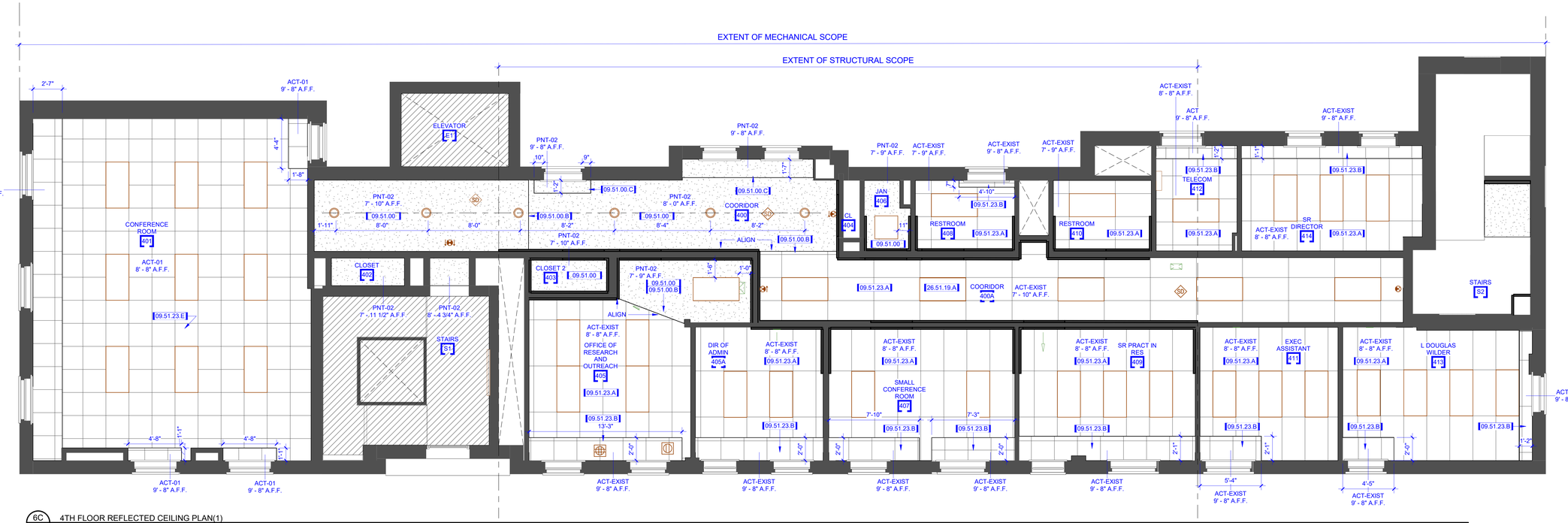
02.41.24	LIMITED SCOPE OF WORK TO INCLUDE PAINT ONLY AS INDICATED BY STRUCTURAL DRAWINGS
08.11.13	NEW WOOD DOOR IN EXISTING DOOR FRAME. REF. DOOR SCHEDULE. RE-USE HARDWARE SAVED FROM DEMOLITION.
08.14.16	RE-INSTALL DOOR FRAME SAVED FROM DEMOLITION, LEVEL AND PLUMB SO REVEAL AROUND DOOR IS EVEN. RE- USE EXISTING HARDWARE.
09.10.00	2-HR FIRE RATED DUCT SHAFT WITH UL DESIGN U438 PER 1990 STATE REVIEWED RECORD DRAWINGS BY BALLOU JUSTICE UPTON ASSOCIATES ARCHITECTS
09.29.00	REPLACE ALL REMOVED DRYWALL WITH NEW 5/8" GYP. BD. INSTALL GYP. BD AS REQUIRED FOR FLUSH SURFACES IN ALL NEW FINISHED SPACE. TAPE, PRIME AND PAINT TO MATCH EXISTING ADJACENT WALLS. ONCE GYP IS INSTALLED, REPLACE WALL BASE SALVAGED FROM DEMOLITION BACK INTO PLACE.
09.51.00	NEW SUSPENDED CEILING: 5/8" GYPSUM BOARD ON SUSPENDED METAL STUD FRAMING. FINISH AND PAINT TO MATCH EXISTING, PNT-02 FLAT.
09.51.00.B	NEW BULKHEAD - REFER TO DETAIL AS CALLED OUT.
09.51.00.C	WINDOW POCKET - NEW DRYWALL SOFFIT TO MATCH HEIGHT AND SIZE OF EXISTING. REFER TO DETAIL AS CALLED OUT.
09.51.23.A	RE- INSTALL CEILING GRID AND PANELS SALVAGED FROM DEMOLITION. CEILING WILL BE RE-INSTALLED IN SAME ROOM REMOVED FROM DURING DEMO. COORDINATE WITH ELECTRICAL FOR LIGHT FIXTURE LAYOUT. IF NEEDED REPLACE DAMAGED PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.

KEYNOTES

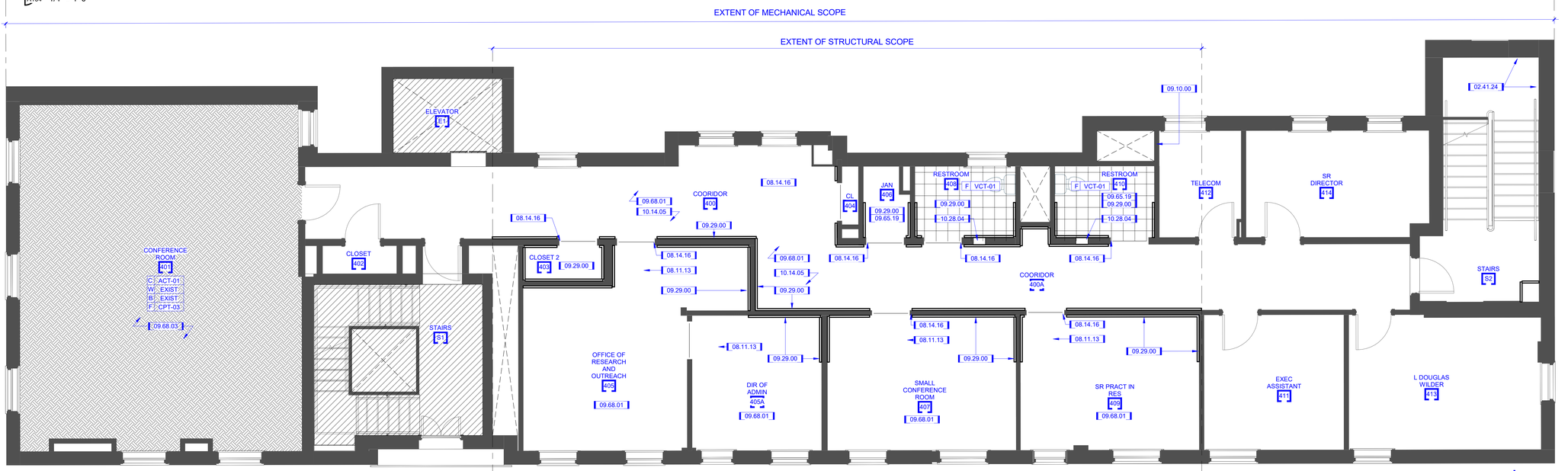
09.51.23.B	RE-INSTALL SUSPENDED CEILING SYSTEM ABOVE WINDOW POCKETS. RE USE GRID AND PANELS FROM DEMOLITION. IF NEEDED PROVIDE NEW GRID TO MATCH EXISTING AND REPLACE PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.
09.51.23.E	ROOM 401 TO RECEIVE NEW ACT CEILING AND GRID. REFER TO FINISH LEGEND. REUSE EXISTING ACT CEILING AND GRID SALVAGED FROM DEMOLITION TO INFILL AND PATCH REMAINDER OF BUILDING AS NEEDED.
09.65.19	RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PROVIDE AND INSTALL NEW RESILIENT FLOORING, VCT-01. REFER TO FINISH SCHEDULE.
09.68.01	RE-INSTALL SALVAGED CARPET AND PAD IN SAME INSTALLATION DIRECTION, QUARTER TURN, AND SAME ROOMS AS EXISTING. IF NEEDED REPLACE DAMAGED CARPET WITH ATTIC STOCK RESERVED FROM DEMOLITION OF ROOM 401. RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PATCH AND REPAIR TO MATCH EXISTING IF NEEDED.
09.68.03	ROOM 401 TO RECEIVE NEW CARPET. REFER TO FINISH LEGEND FOR SPEC. REUSE EXISTING CARPET SALVAGED DURING DEMOLITION TO INFILL AND PATCH IN KIND OTHER AREAS OF BUILDING AS NEEDED.
10.14.05	RE-INSTALL EXISTING SIGNAGE. SIGNAGE WILL BE AT SAME HEIGHT AND SAME LOCATIONS AS PREVIOUS INSTALLATION. COORDINATE WITH ELECTRICAL PLANS.

KEYNOTES

10.28.04	RE-INSTALL ALL TOILET ACCESSORIES SALVAGED AND STORED DURING CONSTRUCTION BACK INTO PLACE. CONFIRM THAT ACCESSORY LOCATIONS MEET ADA REQUIREMENTS. REFER TO ENLARGED PLANS AND MOUNTING HEIGHT DIAGRAMS ON A610.
26.51.19.A	ALL 2X4 LIGHTING SECURED TO STRUCTURE DURING DEMO TO BE PLACED BACK INTO GRID AS SHOWN ON PLANS. COORDINATE WITH ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



6C A104 4TH FLOOR REFLECTED CEILING PLAN(1) 1/4" = 1'-0"



6A A104 4TH FLOOR NEW WORK PLAN 1/4" = 1'-0"

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

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4TH FLOOR NEW WORK PLAN & RCP

A104

REFLECTED CEILING PLAN LEGEND

- 2'x2' LIGHT FIXTURE
- 2'x4' LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- STRIP FLUORESCENT LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EMERGENCY WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACKUP - REFER TO ELEC.
- EXIT SIGN
- SPRINKLER
- EXHAUST GRILLE
- RETURN GRILLE
- SUPPLY DIFFUSER
- SUSPENDED CEILING SYSTEM
- NOT IN CONTRACT

PARTITION INDICATIONS LEGEND

- EXISTING PARTITION TO REMAIN
- NEW DRYWALL

KEYNOTES

02.41.24	LIMITED SCOPE OF WORK TO INCLUDE PAINT ONLY AS INDICATED BY STRUCTURAL DRAWINGS
08.11.13	NEW WOOD DOOR IN EXISTING DOOR FRAME. REF. DOOR SCHEDULE. RE-USE HARDWARE SAVED FROM DEMOLITION.
08.14.16	RE-INSTALL DOOR FRAME SAVED FROM DEMOLITION, LEVEL AND PLUMB SO REVEAL AROUND DOOR IS EVEN. RE- USE EXISTING HARDWARE.
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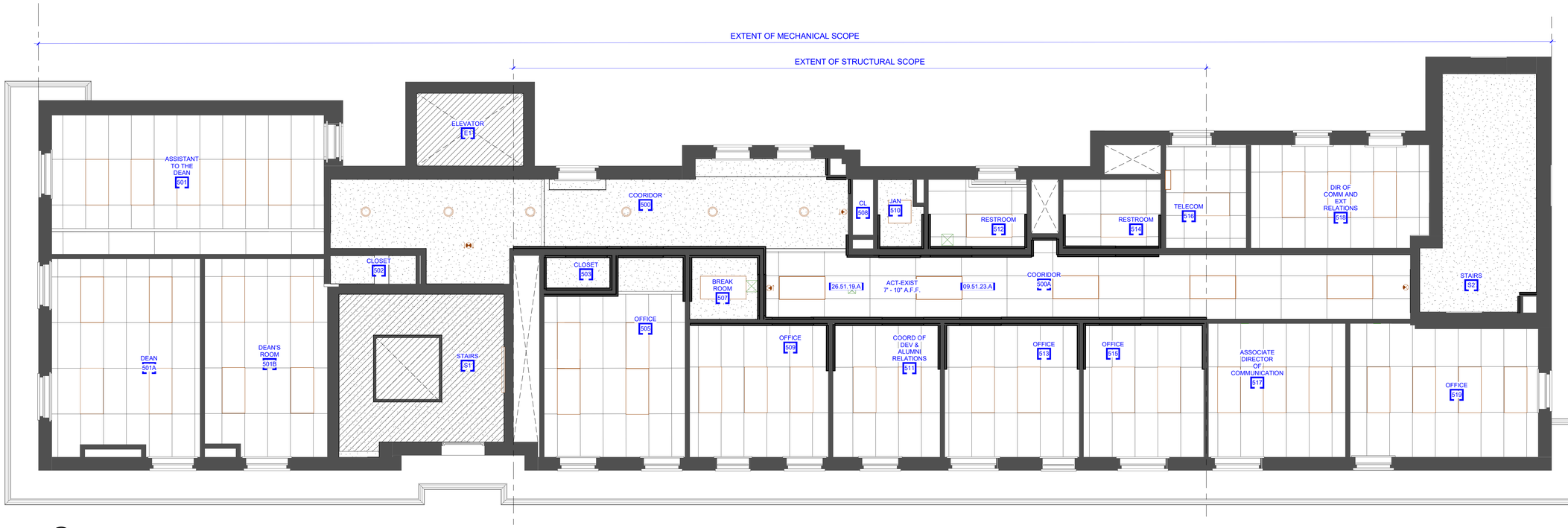
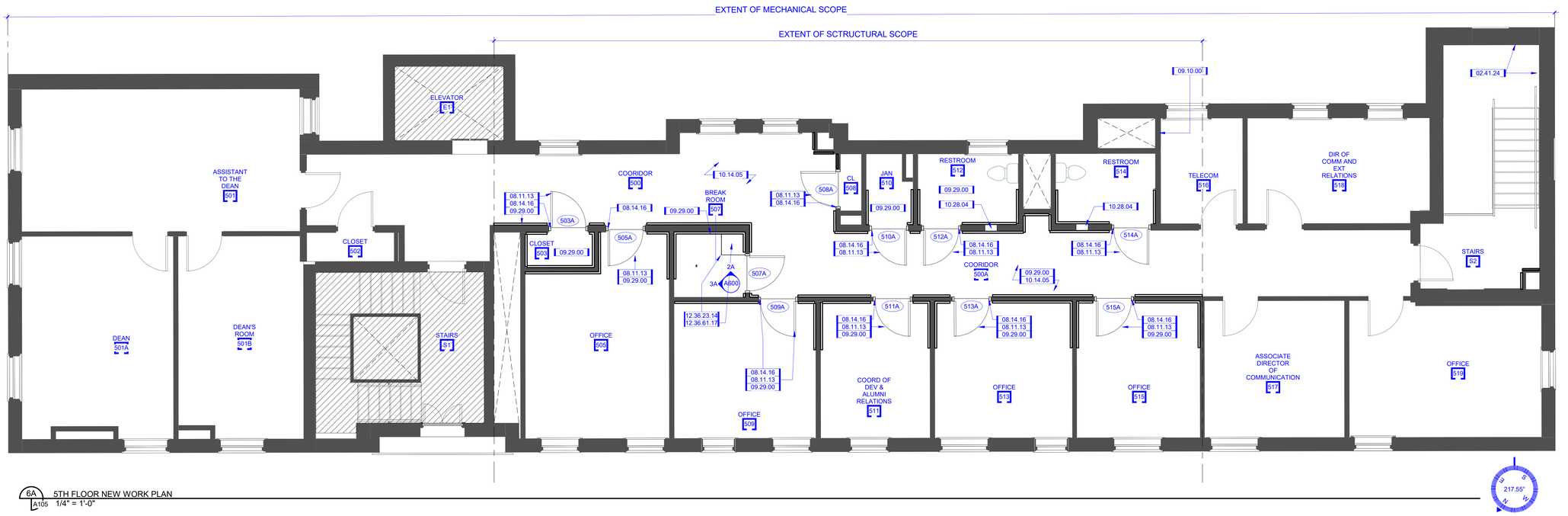
09.29.00	REPLACE ALL REMOVED DRYWALL WITH NEW 5/8" GYP. BD. INSTALL GYP. BD AS REQUIRED FOR FLUSH SURFACES IN ALL NEW FINISHED SPACE. TAPE, PRIME AND PAINT TO MATCH EXISTING ADJACENT WALLS. ONCE GYP IS INSTALLED, REPLACE WALL BASE SALVAGED FROM DEMOLITION BACK INTO PLACE.
09.51.23.A	RE- INSTALL CEILING GRID AND PANELS SALVAGED FROM DEMOLITION. CEILING WILL BE RE-INSTALLED IN SAME ROOM REMOVED FROM DURING DEMO. COORDINATE WITH ELECTRICAL FOR LIGHT FIXTURE LAYOUT. IF NEEDED REPLACE DAMAGED PANELS WITH PANELS RESERVED FROM DEMOLITION OF ROOM 401.
10.14.05	RE-INSTALL EXISTING SIGNAGE. SIGNAGE WILL BE AT SAME HEIGHT AND SAME LOCATIONS AS PREVIOUS INSTALLATION. COORDINATE WITH ELECTRICAL PLANS.

KEYNOTES

10.28.04	RE-INSTALL ALL TOILET ACCESSORIES SALVAGED AND STORED DURING CONSTRUCTION BACK INTO PLACE. CONFIRM THAT ACCESSORY LOCATIONS MEET ADA REQUIREMENTS. REFER TO ENLARGED PLANS AND MOUNTING HEIGHT DIAGRAMS ON A610.
26.51.19.A	ALL 2X4 LIGHTING SECURED TO STRUCTURE DURING DEMO TO BE PLACED BACK INTO GRID AS SHOWN ON PLANS. COORDINATE WITH ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



6C A105 5TH FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



6A A105 5TH FLOOR NEW WORK PLAN
1/4" = 1'-0"

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FISHER ENGINEERING

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400

COMMONWEALTH OF VIRGINIA
JAY L. WOODBURN
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01/26/2024
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5TH FLOOR NEW WORK PLAN & RCP

A105

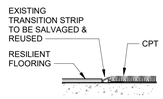
INTERIOR FINISH LEGEND

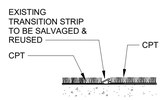
FINISH NO.	MATERIAL	MANUFACTURER	STYLE NAME / NO.	COLOR	SIZE	DESCRIPTION / REMARKS
ACOUSTIC CEILING TILE						
ACT-01	ACOUSTIC CEILING TILE	ROCKFON	EDUCATION STANDARD - SQUARE TEGULAR NARROW	WHITE	24X24	ROOM 401 NEW CEILING ONLY
ACT-EXIST	ACOUSTIC CEILING TILE	ETR	ETR	ETR	ETR	FOR PUT BACK IN PRIOR LOCATION
CARPET						
CPT-01	CARPET TILE	J&J FLOORING	ENERGY	7997		ETR. INSTALLATION - QUARTER TURN
CPT-02	BROADLOOM CARPET	J&J FLOORING	IMPULSE III	2433/8400		ETR. BROADLOOM FOR OFFICES
CPT-03	CARPET TILE	SHAW CONTRACT	DISPERSE 59576	NAVIGATION 75760	24X24	ROOM 401 ONLY. INSTALL - QUARTER TURN
LUXURY VINYL TILE						
LVT-01	LUXURY VINYL TILE	PATCRAFT	142IV TIMBER GROVE	07003 PERGOLA-V2	5.96" X 48"	ETR. PATCH AND REPAIR WITH NEW AS NEEDED.
PAINT						
PNT-01	PAINT	SHERWIN WILLIAMS	SW7056	RESERVED WHITE		GENERAL PAINT, EGGSHELL FINISH
PNT-02	PAINT	SHERWIN WILLIAMS	SW7006	EXTRA WHITE		DOOR FRAMES - SEMI GLOSS, CEILINGS - FLAT
PNT-03	PAINT	SHERWIN WILLIAMS	SW7106	HONIED WHITE		LEVEL 5 BREAK ROOM
PLASTIC LAMINATE						
PLAM-01	PLASTIC LAMINATE	FORMICA	NEUTRAL WEFT			ETR. BREAK AREA
PLAM-02	PLASTIC LAMINATE	FORMICA	WHITE SHALESTONE			ETR. 5TH FLOOR PANTRY
RUBBER BASE						
RB-01	RUBBER BASE	ROPPE	700 SERIES WALL BASE	197 ICEBERG	4" H CONTINUOUS ROLLED GOODS	ETR. GENERAL WALL BASE
RB-02	RUBBER BASE	ROPPE	700 SERIES WALL BASE	195 LIGHT GRAY	4" H CONTINUOUS ROLLED GOODS	ETR. RESTROOMS
RB-03	RUBBER BASE	ROPPE	700 SERIES WALL BASE	137 CINNABAR	4" H CONTINUOUS ROLLED GOODS	ETR. OFFICES
RUBBER SHEET FLOORING						
RF-001	RUBBER	ROPPE				BASIS OF DESIGN: ROPPE ENVIRE. FINAL PRODUCT TO BE CONFIRMED WITH OWNER PRIOR TO INSTALLATION
SOLID SURFACE MATERIAL						
SMM-01	SOLID SURFACE MATERIAL	CORIAN		AURORA		ETR. BREAK AREA
VINYL COMPOSITION TILE						
VCT-01	VINYL COMPOSITION TILE	ARMSTRONG	IMPERIAL TEXTURE	51906 TEAL		NEW IN RESTROOMS AS NOTED. REFER TO PLANS

INTERIOR FINISH NOTES

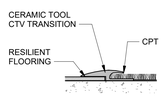
1. ALL FINISHES ARE EXISTING TO REMAIN AND SUBJECT TO DEMOLITION, SALVAGE, LABEL AND STORE FOR PUT BACK IN PRIOR LOCATION UNLESS OTHERWISE NOTED.
2. REFER TO PLANS FOR AREAS TO RECIEVE NEW FINISHES.
3. PAINT REFINISHED GYP WALLS IN EGGSHELL FINISH TO MATCH ADJACENT EXISTING WALLS.
4. PAINT GYP CEILING FLAT FINISH.
5. PAINT INTERIOR HM DOOR FRAMES WITH PNT-02 IN SEMI GLOSS FINISH UNLESS OTHERWISE NOTED.
6. ALL MECHANCIAL/FIRE PROTECTION PIPING, CONDUIT, AND EQUIPMENT ON A PAINTED CEILING SHALL BE PAINTED TO MATCH CEILING COLOR. UON. DO NOT PAINT SPRINKLER HEADS.
7. PROVIDE ADA COMPLIANT TRANSITION STRIPS WHERE DIFFERENT FLOOR MATERIALS MEET PER TYPICAL TRANSITION STRIP DETAILS. REUSE EXISTING TRANSITION STRIPS SALVAGED DURING DEMO WHERE POSSIBLE.
8. ALL FLOORING TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOORS OR CENTER OF WALL OPENS, UON.
9. TRANSITION STRIPS TO MATCH HEIGHT OF ADJACENT FLOORING FINISH.

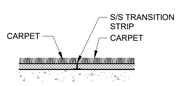
FLOOR TRANSITIONS





WHERE NO LONGER POSSIBLE TO REUSE EXISTING TRANSITION STRIP, REFER TO THE DETAILS BELOW



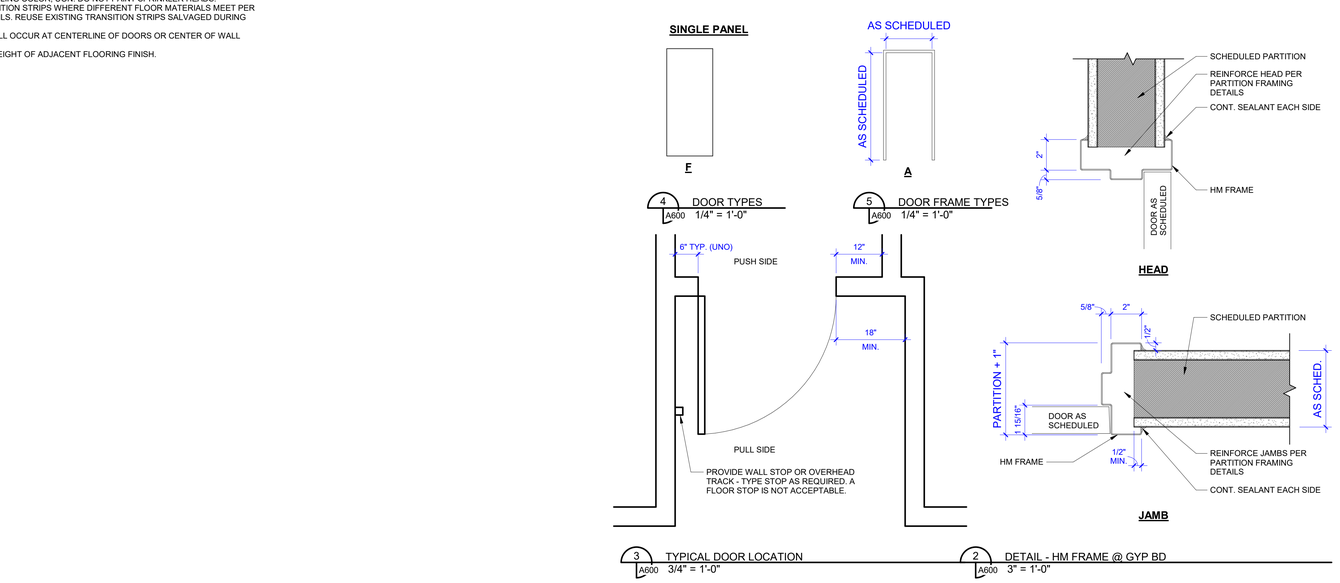


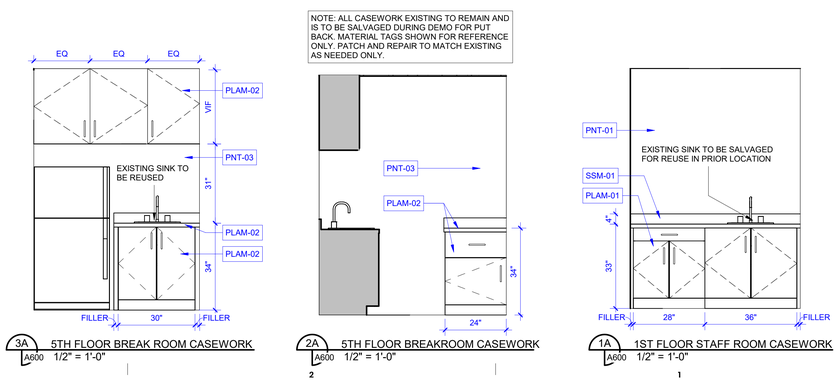
DOOR SCHEDULE

DOOR NO.	DOOR PANEL	DOOR SIZE (WxH)	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME DETAIL	HARDWARE TYPE	RATING	COMMENTS
1ST FLOOR PLAN											
105A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
107A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
108A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
109A	(2)F	6' - 0" x 7' - 0"	WD	STN	A	HM	PNT		SEE SPEC		180 DEGREE SWING AT DOUBLE DOORS
110A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
111A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
112A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
114A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
2ND FLOOR PLAN											
203A	F	2' - 10" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
205A	F	2' - 10" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
206A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
209A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
210A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
211A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
212A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
213A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
214A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
215A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
3RD FLOOR PLAN											
303A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
305A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
308A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
309A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
310A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
311A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
312A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
313A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
314A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
315A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
4TH FLOOR PLAN											
403A		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
404A		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
405A		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
405AA		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
406A		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
407A		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
408A		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
409A		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
410A		3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
5TH FLOOR PLAN											
503A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
505A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
507A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
508A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
509A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
510A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
511A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
512A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
513A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
514A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE
515A	F	3' - 0" x 6' - 8"	WD	STN	EXIST	HM	PNT		EXIST		RE- USE EXIST. FRAME AND HARDWARE

DOOR SCHEDULE NOTES

1. PROVIDE EITHER WALL-STOPS OR TRACK TYPE OVERHEAD STOPS AS REQUIRED. FLOOR STOPS ARE NOT ACCEPTABLE.
2. DOORS SHOULD NOT BE UNDERCUT MORE THAN 3/4" ABOVE NEW FINISHED SURFACES.
3. DOOR FRAMES AT INSULATED PARTITIONS SHALL RECEIVE INSULATION IN JAMB & HEAD CAVITY.
4. ALL FRAMES & ANCHORS TO BE INSTALLED ACCORDING TO FRAME MANUFACTURER'S INSTRUCTIONS.
5. ALL HM FRAMES TO BE FULLY WELDED, UNO.
6. OPENINGS IN LEAD LINED PARTITIONS SHALL RECIEVE LEAD LINED DOORS & FRAMES.





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FISHER ENGINEERING

0' 0.125' 0.25' 0.375' 0.5' 0.625' 0.75' 0.875' 1'
3" =1'-0"

0' 0.5' 1' 1.5' 2' 2.5' 3' 3.5' 4'
3/4" =1'-0"

0' 1' 2' 3' 4' 5' 6'
1/2" =1'-0"

0' 2' 4' 6' 8' 10' 12'
1/4" =1'-0"

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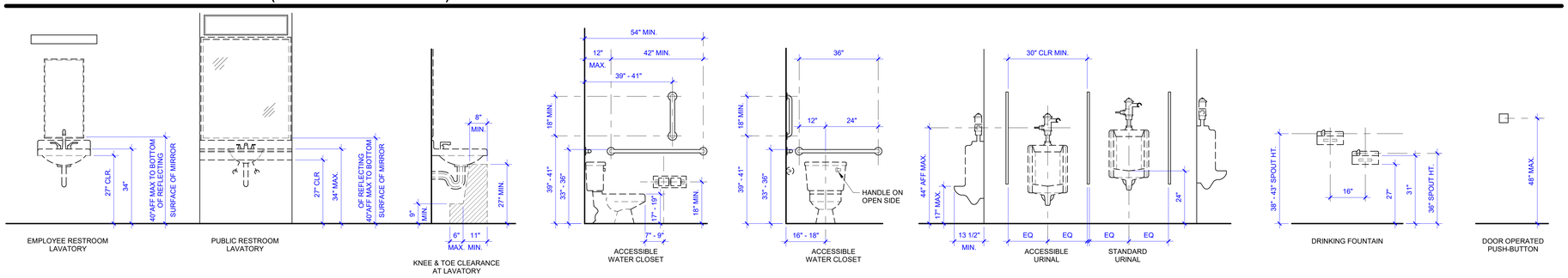
DOOR SCHEDULE & INTERIOR FINISHES

A600

TOILET FIXTURE MOUNTING DIAGRAM (ANSI 2009 306 & 602 - 606)1

NOTE: EQUIPMENT AND TYPE INDICATED IN DIAGRAM MAY OR MAY NOT BE USED ON THIS PROJECT AND SHOWN FOR ILLUSTRATION PURPOSES ONLY. REFER TO EQUIPMENT PLAN(S), INTERIOR ELEVATIONS, ETC. FOR LOCATION AND QUANTITIES OF ITEMS.

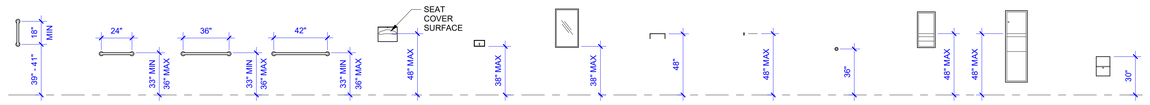


EMPLOYEE RESTROOM LAVATORY | PUBLIC RESTROOM LAVATORY | KNEE & TOE CLEARANCE AT LAVATORY | ACCESSIBLE WATER CLOSET | ACCESSIBLE WATER CLOSET | ACCESSIBLE URINAL | STANDARD URINAL | DRINKING FOUNTAIN | DOOR OPERATED PUSH-BUTTON

TOILET ACCESSORY MOUNTING DIAGRAM (ANSI 2009 604)1

NOTE: EQUIPMENT INDICATED IN DIAGRAM MAY OR MAY NOT BE USED ON THIS PROJECT. REFER TO EQUIPMENT PLAN(S), INTERIOR ELEVATIONS, ETC. FOR LOCATION AND QUANTITIES OF ITEMS. CONFIRM WITH OWNER ALL REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI) ITEMS.

ILLUSTRATION



TOILET ACCESSORY#	TA-1	TA-2	TA-3	TA-4	TA-5	TA-6	TA-7	TA-8	TA-9	TA-10	TA-11	TA-12	TA-13	TA-14	TA-15	TA-16
ACCESSORY ITEM	GRAB BAR - 18"	GRAB BAR - 24"	GRAB BAR - 36"	GRAB BAR - 42"	SEAT COVER DISPENSER	WALL MOUNTED SOAP DISPENSER	MIRROR	SHELF	HOOK	WALL BUMP	PAPER TOWEL DISPENSER	COMBINATION PAPER TOWEL DISPENSER	SANITARY NAPKIN DISPOSAL UNIT	NOT USED	TOILET TISSUE DISPENSER	NOT USED
RESPONSIBILITY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLOCKING TYPE	C2	C2	C2	C2	A1	A1	C1		C1 (OR DOOR MOUNTED)	A1	A1	A2	A1		C1	A1
MANUFACTURER	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	--	ETR	--
MODEL NUMBER	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	--	ETR	--

PARTITION TYPE SCHEDULE

TYPE	CONSTRUCTION DATA: FRAMING / CORE SIZE	CONSTRUCTION DATA: OVERALL PARTITION WIDTH	FIRE PARTITIONS: RATING	FIRE PARTITIONS: UL DESIGNATION	STC RATING
A4a					
A4a	Metal Stud	4 3/8"	UNKNOWN		

PARTITION TYPE DESIGNATIONS LEGEND

PARTITION DESIGNATOR **A 4 b**

PARTITION TYPE
DESIGNATION AS NOTED ON PARTITION TYPE BELOW

NOMINAL WIDTH
SEE NOMINAL WIDTH SCHEDULE BELOW

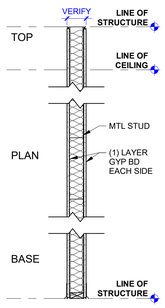
FIRE / SMOKE RATING
SEE PARTITION DESIGNATIONS LEGEND BELOW

NOMINAL WIDTH SCHEDULE

#	'U' WIDTH RANGE	STEEL	WOOD STUD	CMU STUD
0	0" - 99"	N/A	N/A	N/A
1	1" - 1.99"	7/8"	N/A	N/A
2	2" - 2.99"	1 5/8"	N/A	N/A
3	3" - 3.99"	2 1/2"	N/A	N/A
4	4" - 4.99"	3 5/8"	3 1/2"	3 5/8"
5	5" - 5.99"	4"	N/A	N/A
6	6" - 6.99"	6"	5 1/2"	5 5/8"
7	7" - 7.99"	N/A	N/A	N/A
8	8" - 8.99"	N/A	7 1/4"	7 5/8"
9	9" - 9.99"	N/A	N/A	N/A
10	10" - 10.99"	N/A	N/A	9 5/8"
11	11" - 11.99"	N/A	N/A	N/A
12	12" - 12.99"	N/A	N/A	11 5/8"

PARTITION TYPE

A = MTL STUD; DECK TO DECK; (1) LAYER GYP BD EA SIDE



A PARTITION TYPE
SCALE: 3/4" = 1'-0"

PARTITION TYPE NOTES

GENERAL
1. THE PARTITION TYPE SCHEDULE INCLUDES ONLY NEW PARTITIONS WITHIN THE SCOPE OF WORK.
2. PARTITION SYMBOL INDICATIONS ON FLOOR PLANS DESIGNATE THE ENTIRE LENGTH OF WALL INDICATED UNLESS INTERRUPTED BY ANOTHER SYMBOL.

DELEGATED DESIGN
1. ALL STUD SPACING SHALL BE 16" OC, UNO.
2. WHERE STUD GAGES ARE INDICATED ON THIS SHEET, MIN GAGES ARE TO BE VERIFIED WITH MANUF STUD CHARTS.
3. PROVIDE DOUBLED STUDS AROUND ALL DOOR, WINDOW OR CASED OPENINGS, UNO.
4. CONTRACTOR SHALL ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN METAL STUD FRAMING PARTITIONS SUPPORTING WALL MOUNTED CASEWORK OR EQUIPMENT, AND PARTITIONS EXCEEDING 10'-0" IN HEIGHT.
5. NON-LOAD BEARING METAL STUD PARTITIONS THAT ARE 10'-0" HIGH OR LESS SHALL HAVE 20 GA (33 MIL) MIN STUDS AT 24" OC MAXIMUM WITH AN ALLOWABLE DEFLECTION OF L/240.

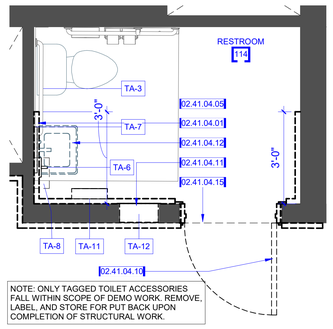
BLOCKING
1. PROVIDE FIRE BLOCKING FOR ALL PARTITIONS OPEN TO CEILING CAVITY. UTILIZE GYPSUM WALLBOARD WITH STEEL FRAMING WHERE SPACE IS TOO WIDE FOR SOLID STEEL OR INSULATION TYPE FIRE BLOCKING, UNLESS OTHERWISE INDICATED. PROVIDE IMPALING CLIPS WHERE REQUIRED TO SUPPORT INSULATION FIRE BLOCKING.
2. PROVIDE WOOD OR METAL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO CASEWORK, GRAB BARS, SHELVING, HANDRAILS, TOILET PARTITIONS, ETC. REF BLOCKING DIAGRAMS.

CONTROL JOINTS
1. PROVIDE CONTROL JOINTS IN ALL GYPSUM WALLBOARD PARTITIONS AT 30'-0" OC MAXIMUM OR AS INDICATED ON FLOOR PLANS.

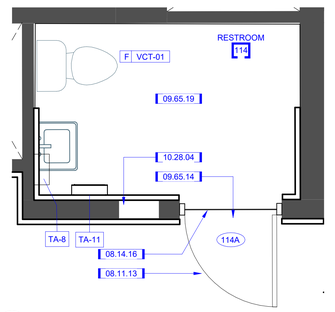
SEALANT
1. PROVIDE CONTINUOUS SEALANT UNDER METAL TRACKS AND AT PERIMETER OF GYPSUM BOARD PANELS AT SMOKE RATED, STC RATED OR FIRE RATED ASSEMBLIES, AND ALL FULL-HEIGHT PARTITIONS.

THICKNESS
1. ALL GYPSUM BOARDS SHALL BE 5/8" THICK AND HELD OFF 1/2" FROM FLOOR SURFACE AND 1" OFF ROOF SURFACE, UNO.

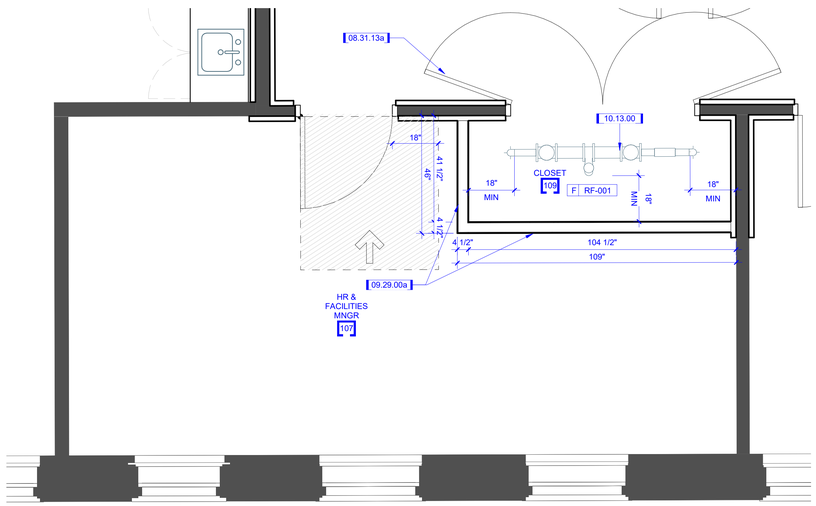
FINISH
1. ALL INTERIOR PARTITIONS SHALL RECEIVE BASE FINISH AS SCHEDULED, UNO.
2. AT PARTITIONS RECEIVING TILE FINISH, PROVIDE METAL STUD FRAMING IN ACCORDANCE WITH CURRENT TCNA "HANDBOOK FOR CERAMIC, GLASS, AND STONE TILE INSTALLATION".
3. SUBSTITUTE MOISTURE RESISTANT BOARD (PURPLE BOARD) FOR WET LOCATIONS (RESTROOMS, KITCHENS, ETC) OR WHERE SCHEDULED TO RECEIVE CERAMIC TILE OR STONE. FOR OTHER WET APPLICATIONS (SHOWERS, ETC), USE CEMENTITIOUS TILE BACKER BOARDS.



3C A610 ENLARGED RESTROOM - DEMO 1/2" = 1'-0"



2C A610 ENLARGED RESTROOM PLAN 1/2" = 1'-0"



3A A610 BACKFLOW PREVENTER - CLOSET 1/2" = 1'-0"

KEYNOTES

02.41.04.01	CUT AND REMOVE PORTION OF DRYWALL, FULL HEIGHT AS INDICATED ON PLAN. STUD FRAMING, WALL INSULATION (IF ANY) TO REMAIN DURING CONSTRUCTION. REMOVE, SALVAGE, LABEL, AND STORE RUBBER WALL BASE FOR REUSE IN SAME LOCATION AFTER CONSTRUCTION. LOCATE, IDENTIFY AND PROTECT ALL ELECTRICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE OF DEMOLITION LIMITS. MAINTAIN ELECTRICAL SERVICE TO AREAS OUTSIDE OF DEMOLITION LIMITS. COORDINATE WITH ELECTRICAL PLANS.
02.41.04.05	REMOVE VINYL FLOORING IN ITS ENTIRETY. REMOVE ALL GLUES AND PREPARE SUBFLOOR AS REQUIRED TO RECEIVE NEW FLOOR FINISHES WHEN REPAIRS ARE COMPLETED.
02.41.04.10	REMOVE EXISTING DOOR AND DOOR FRAME. PROTECT AND SALVAGE DOOR FRAME AND ALL HARDWARE FOR RE-USE. PATCH AND REPAIR OPENING FOR NEW DOOR AS SCHEDULED.
02.41.04.11	REMOVE ALL TOILET ACCESSORIES WITHIN SCOPE OF DEMOLITION. STORE, SAVE AND RE-INSTALL IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED. REFER TO ENLARGED TOILET PLANS ON A610.
02.41.04.12	REMOVE EXISTING SINK, FAUCET AND ASSOCIATED PIPING AND ACCESSORIES BACK TO WALL AND TEMPORARILY CAP FOR NEW SINK AND FAUCET UNDER NEW WORK. LABEL AND STORE ALL SINKS, FAUCETS AND ASSOCIATED PIPING AND ACCESSORIES FOR PUT BACK IN PRIOR LOCATION UPON COMPLETION OF STRUCTURAL REPAIRS. REFER TO ENLARGED TOILET PLANS ON A610.
02.41.04.15	REMOVE AND SALVAGE FLOORING TRANSITION STRIPS FOR REUSE IN SAME LOCATIONS AFTER REPAIRS ARE COMPLETED.
08.11.13	NEW WOOD DOOR IN EXISTING DOOR FRAME. REF. DOOR SCHEDULE. RE-USE HARDWARE SAVED FROM DEMOLITION.
08.14.16	RE-INSTALL DOOR FRAME SAVED FROM DEMOLITION, LEVEL AND PLUMB SO REVEAL AROUND DOOR IS EVEN. RE- USE EXISTING HARDWARE.
08.31.13a	180 DEGREE DOOR SWING. SEE DOOR SCHEDULE FOR DETAILS
09.29.00a	PRIME AND PAINT TO MATCH EXISTING ADJACENT WALLS.
09.65.14	RE-INSTALL FLOORING TRANSITION STRIPS SALVAGED DURING DEMOLITION BACK INTO PLACE. REFER TO FLOOR TRANSITION DETAILS ON SHEET A600.
09.65.19	RE-INSTALL WALL BASE SALVAGED FROM DEMOLITION. PROVIDE AND INSTALL NEW RESILIENT FLOORING, VCT-01. REFER TO FINISH SCHEDULE.
10.13.00	BACKFLOW PREVENTER SYSTEM. PROVIDE SUPPORTS FOR SYSTEM AS REQUIRED BY THE CROSS CONNECTION AND BACKFLOW PREVENTION MANUAL. SEE MECHANICAL DRAWINGS FOR DETAILS
10.28.04	RE-INSTALL ALL TOILET ACCESSORIES SALVAGED AND STORED DURING CONSTRUCTION BACK INTO PLACE. CONFIRM THAT ACCESSORY LOCATIONS MEET ADA REQUIREMENTS. REFER TO ENLARGED PLANS AND MOUNTING HEIGHT DIAGRAMS ON A610.

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FISHER ENGINEERING

0' 1' 2' 3' 4' 5' 6'
1/2" =1'-0"

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2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

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ISSUE
01/26/2024 - WORKING DRAWINGS 4

ENLARGED PLANS & TOILET ACCESSORIES

A610

GENERAL STRUCTURAL NOTES

GENERAL/BUILDING CODE

GBC-1: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ***2018 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC), EFFECTIVE JULY 1, 2021***.

A. NEW CONSTRUCTION - ***PART 1 OF VUSBC - "VIRGINIA CONSTRUCTION CODE"***

B. RENOVATION/ ALTERATION - ***PART II OF THE VUSBC - "VIRGINIA EXISTING BUILDING CODE"***

1. CLASSIFICATION OF WORK FOR THIS PROJECT = ALTERATION LEVEL 2

GBC-2: THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS, DIMENSIONS, SECTIONS, AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO INSTALLING TEMPORARY SHORING AND PERFORMING JACKING OPERATIONS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO DUNBAR IN ORDER THAT THE CONDITION MAY BE RESOLVED.

GBC-3: NO LOADS IN EXCESS OF THE DESIGN LIVE LOADS LISTED SHALL BE IMPOSED UPON ANY AREA DURING CONSTRUCTION, UNLESS ADEQUATE SHORING OR OTHER MEANS IS PROVIDED TO SUPPORT THE EXCESSIVE LOADS.

GBC-4: THE ENGINEER SHALL NOT HAVE THE AUTHORITY OR RESPONSIBILITY TO SUPERVISE OR DIRECT THE CONSTRUCTION WORK.

GBC-5: ALL SECTIONS AND DETAILS, WHETHER EXPLICITLY CUT ON PLAN OR NOT, SHALL BE CONSIDERED TYPICAL AND SHALL APPLY AT SIMILAR CONDITIONS.

GBC-6: THE CONTRACTOR SHALL ABIDE AND BE HELD IN STRICT COMPLIANCE TO OSHA AND ALL OTHER APPLICABLE RULES AND REGULATIONS.

GBC-7: MATERIAL STORAGE, STAGING, ETC. ARE NOT PERMITTED ON SHORED AREAS UNLESS NOTED OTHERWISE.

GBC-8: ALTERATIONS TO THE EXISTING BUILDING DO NOT INCREASE THE DEMAND/CAPACITY RATIO OF ANY EXISTING STRUCTURAL LATERAL FORCE RESISTING ELEMENT BY MORE THAN 10%; THEREFORE, AN ENGINEERING EVALUATION AND ANALYSIS OF THE ALTERED EXISTING STRUCTURE IS NOT REQUIRED.

EXISTING CONSTRUCTION

EC-1: INFORMATION REGARDING STRUCTURAL MEMBERS INDICATED TO BE EXISTING WAS OBTAINED DURING LIMITED FIELD OBSERVATIONS AND FROM LIMITED AVAILABLE EXISTING DRAWINGS. ACTUAL CONDITIONS MAY DIFFER FROM THAT WHICH IS INDICATED. IF THE CONTRACTOR UNCOVERS EXISTING CONDITIONS THAT DIFFER FROM THAT WHICH IS INDICATED ON PLAN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF THE DISCREPANCY IN ORDER THAT THE CONDITION MAY BE RESOLVED.

EC-2: FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE FABRICATION AND CONSTRUCTION OF ANY NEW STRUCTURAL MEMBERS. AT ALL LOCATIONS WHERE NEW ROOFS AND FLOORS ADJOIN EXISTING ROOFS AND FLOORS, EMPLOY A LICENSED SURVEYOR TO VERIFY EXISTING DIMENSIONS, FLOOR ELEVATIONS, AND FLOOR-TO-FLOOR HEIGHTS BEFORE ORDERING, DETAILING, FABRICATING, OR ERECTING ANY NEW STRUCTURAL MEMBERS.

EC-3: EXISTING CONSTRUCTION IS DENOTED USING SLANTED LETTERING, PHANTOM LINETYPE (DASH DOUBLE DOT), AND HALFTONE.

SPECIAL INSPECTIONS

SI-1: SPECIAL INSPECTIONS ARE REQUIRED BY THE BUILDING CODE (CHAPTER 17). REFER TO SECTION 014000 OF THE SPECIFICATIONS FOR THE GENERAL INSPECTION REQUIREMENTS. THE FOLLOWING IS A LIST OF ITEMS THAT REQUIRE SPECIAL INSPECTION. REFER TO THE REFERENCED SPECIFICATION SECTION FOR THE SPECIFIC REQUIREMENTS FOR EACH ITEM.

A. ROUGH CARPENTRY SECTION 061000

DESIGN LOADS AND PARAMETERS

DL-1: BUILDING RISK CATEGORY (TABLE 1604.5) = CATEGORY II

DL-2: LIVE LOADS

LIVE LOADS (1989 RENOVATION):
THE FOLLOWING DESIGN LIVE LOADS WERE OBTAINED FROM 1989 STRUCTURAL DRAWINGS BY SAINT CLAIR, CALLOWAY AND FRYE STRUCTURAL ENGINEERS DATED DECEMBER 28, 1989:

SNOW (STAIR AND ELEVATOR SHAFT)	20 PSF	(1989 RENOVATION DESIGN LOAD)
WIND	80 MPH	(1989 RENOVATION DESIGN LOAD)
OFFICE	50 PSF	(1989 RENOVATION DESIGN LOAD)
CORRIDOR (1ST FLOOR)	100 PSF	(1989 RENOVATION DESIGN LOAD)
CORRIDORS (ABOVE FIRST FLOOR)	80 PSF	(1989 RENOVATION DESIGN LOAD)
CONFERENCE ROOM	100 PSF	(1989 RENOVATION DESIGN LOAD)
STAIRS	100 PSF	(1989 RENOVATION DESIGN LOAD)

LIVE LOADS (CURRENT RENOVATION):

CONSTRUCTION LIVE LOAD	20 PSF	
OFFICE	50 PSF	(REFER TO NOTE *DL-6*)
CORRIDORS (ABOVE FIRST FLOOR)	80 PSF	(REFER TO NOTE *DL-6*)

DL-3: SNOW LOADS

P_g=20 PSF (GROUND SNOW)
C_e=1.0 (SNOW EXPOSURE FACTOR)
C_t=1.0 (THERMAL FACTOR)
I_s=1.0 (SNOW LOAD IMPORTANCE FACTOR: ASCE 7-16 TABLE 1.5-2)
P_f (SNOW LOAD FOR LOW-SLOPE ROOF)=0.7X(C_e)X(C_t)X(I_s)X(P_g) = 0.7X1.0X1.0X1.0X20 = 14.0 PSF
RAIN-ON-SNOW SURCHARGE (LOW-SLOPE ROOFS ONLY WHERE P_g<= 20 PSF)= 5.0 PSF
TOTAL (LOW-SLOPE ROOF) = 14.0 PSF + 5.0 PSF = 19.0 PSF
MINIMUM P_f (LOW-SLOPE ROOF WHERE P_g≤ 20.0 PSF) = P_m = (P_g)X(I_s) = 20.0X1.0 = 20.0 PSF (USE 20 PSF MINIMUM)

DL-4: WIND LOADS

V=115 MPH (BUILDING RISK CATEGORY: II) (BASIC WIND SPEED: 3-SECOND GUST)
V_{asd} = 89 MPH
EXPOSURE B
K_d=0.85 (WIND DIRECTIONALITY FACTOR)
K_{zt}=1.0 (TOPOGRAPHIC FACTOR)
K_h=1.0 (GROUND ELEVATION FACTOR)
GC_{pi}=±0.18 (PARTIALLY OPEN BUILDING)

WIND LOAD DETERMINATION BY: ASCE 7-16, CHAPTERS 26, 27, 29, 30 (DIRECTIONAL PROCEDURE)

DL-5: SEISMIC LOADS

I_e=1.0 (ASCE 7-16 TABLE 1.5-2)
SEISMIC SITE CLASS = D (ASSUMED)

S_{DS}=24.0%G — S_{mod}=(F_a)X(S_s)=(1.6)X(24.0) = 38.4%G
S_1=5.6%G — S_{m1}=(F_v)X(S_1)=(2.4)X(5.6) = 13.4%G
F_a=1.6 — S_{ds}=(2/3)X(S_{ms}) = 25.6%G
F_v=2.4 — S_{d1}=(2/3)X(S_{m1}) = 8.9%G

SEISMIC DESIGN CATEGORY = B

BASIC STRUCTURAL SYSTEM: BEARING WALL SYSTEMS

SEISMIC- FORCE- RESISTING SYSTEM: ORDINARY PLAIN MASONRY SHEAR WALLS
R= (RESPONSE MODIFICATION FACTOR) = 1.5
Ω_o= (SYSTEM OVERSTRENGTH FACTOR) = 2.5
C_d= (DEFLECTION AMPLIFICATION FACTOR) = 1.25

THIS WORK DOES NOT ALTER OR IMPACT THE EXISTING LATERAL FORCE RESISTING SYSTEM.

DL-6: THE ORIGINAL 1910 APARTMENT BUILDING WAS RENOVATED INTO AN OFFICE BUILDING IN 1989. THE STRUCTURAL ENGINEER OF RECORD FOR THIS RENOVATION WAS SAINT CLAIR, CALLOWAY AND FRYE STRUCTURAL ENGINEERS. IT IS DUNBAR'S OPINION THAT THE 1989 STRUCTURAL DESIGN REMAINS UNCHANGED FOR THE CURRENT RENOVATION AND THAT THE EXISTING FLOOR FRAMING REMAINS STRUCTURALLY ADEQUATE TO SUPPORT THE DESIGN LIVE LOADS LISTED BELOW:

- OFFICE 50 PSF
- CORRIDORS (ABOVE 1ST FLOOR) 80 PSF

TEMPORARY SHORING/ BRACING SUBMITTAL

SH-1: PROVIDE TEMPORARY SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. WHERE SHORING AND BRACING MEMBERS ARE NOT SPECIFICALLY SPECIFIED, SHORING MEMBERS SUPPORTING CONSTRUCTION TO REMAIN SHALL BE DESIGNED TO L/480 DEFLECTION CRITERIA FOR TOTAL LOAD SUPPORTED. PROVIDE ANALYSIS DATA FOR ALL SHORING AND BRACING NOT SPECIFICALLY SPECIFIED, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN THE JURISDICTION OF THE PROJECT, RESPONSIBLE FOR THEIR PREPARATION. SUBMIT PRODUCT DATA FOR SHORING AND BRACING MEMBERS.

CONCRETE

C-1: ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

CONCRETE CLASS	PROJECT LOCATION	EXPOSURE CLASS	CONC WT	MIN F'c (PSI)	MAX W/CM RATIO	AIR CONTENT
A	INTERIOR SOG	F0	NW	3500	NA	≤ 3.0%

C-2: SCOPE OF CONCRETE WORK INCLUDES MECHANICAL EQUIPMENT HOUSEKEEPING PADS IN THE BASEMENT.

C-3: STEEL REINFORCING OF CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS.

- ASTM A615 GRADE 60 (TYPICAL REINFORCING STEEL)
- ASTM A1064 (PLAIN WELDED WIRE FABRIC - USE FLAT SHEETS ONLY)

STRUCTURAL MASONRY

M-1: ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF TMS 402/602-16 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES."

- ASTM C90 (BLOCK)
- ASTM C270 (MORTAR) - TYPE S (CMU)
- ASTM C476 (GROUT) - 2000 PSI MINIMUM COMPRESSIVE STRENGTH
- f'_m=2000 PSI

STRUCTURAL STEEL

SS-1: ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

- ASTM A36 (ANGLES, PLATE, AND BAR) F_y = 36 KSI
- E70XX (SMAW PROCESS WELDING)

SS-2: ALL FIELD WELDING TO EXISTING STRUCTURAL STEEL SHALL COMPLY WITH AISC AND AWS D1.1 FOR WELDING PROCEDURES TO EXISTING STEEL. EXISTING STEEL SHALL BE PROPERLY PRE-HEATED AND ALLOWED TO COOL DOWN BETWEEN PASSES TO LIMIT STEEL BEAM DISTORTION. ALL UNDERCUTS, NOTCHES, AND GOUGES SHALL BE FILLED AND GROUND OUT. ALL EXISTING STEEL SHALL BE CLEANED TO REMOVE ALL RUST, FIREPROOFING, PAINT OR CONTAMINANTS TO EXPOSE BARE METALS FOR A DISTANCE OF 2 INCHES FROM EACH SIDE OF WELD. EXISTING STEEL BEAMS SHALL BE TEMPORARILY SHORED AS REQUIRED DURING FIELD WELDING PROCESS.

ROUGH CARPENTRY

RC-1: ALL ROUGH CARPENTRY SHALL CONFORM TO THE REQUIREMENTS OF THE NDS-2018 "NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION WITH 2018 SUPPLEMENT".

RC-2: PROVIDE NO. 2 SOUTHERN PINE WITH 19% MAXIMUM MOISTURE CONTENT FOR ALL FRAMING LUMBER INCLUDING, LINTELS, JOISTS, RAFTERS, AND BEAMS UNLESS NOTED OTHERWISE. WALL STUDS AND PLATES MAY BE S-P-F No. 1 / 2 UNO ON PROJECT SPECIFIC DETAILS AND NOTES.

RC-3: ALL FRAMING CONNECTIONS NOT SPECIFICALLY INDICATED ON THESE CONSTRUCTION DOCUMENTS SHALL COMPLY WITH THE MINIMUMS ESTABLISHED BY TABLE 2304.10.1 OF THE VUSBC.

RC-4: ALL NAILED CONNECTIONS (OF TWO 2x MEMBERS) SPECIFICALLY INDICATED ON THESE CONSTRUCTION DOCUMENTS ARE ASSUMED TO BE DONE USING A MINIMUM NAIL SIZE OF 0.131" DIAMETER x 3" LONG UNLESS NOTED OTHERWISE.

RC-5: ALL COLD-FORMED STEEL PRE-FORMED CONNECTORS SHALL BE INSTALLED USING THE NUMBER OF NAILS AND NAIL TYPE LISTED FOR THAT CONNECTOR BY THE MANUFACTURER IN THEIR PUBLISHED LITERATURE. ALL NAILS LISTED AS 1 1/2" LONG SHALL BE MADE BY THE MANUFACTURER OF THAT CONNECTOR. HANGERS OR CONNECTORS USED WITH PRESSURE TREATED LUMBER SHALL HAVE G185 MINIMUM ZINC COATING (I.E. SIMPSON ZMAX G185).

RC-6: PROVIDE A MINIMUM OF THREE INCHES OF BEARING FOR ENGINEERED LUMBER BEAMS, UNLESS OTHERWISE NOTED.

RC-7: ALL BEAMS SHALL BE LATERALLY SUPPORTED BY BLOCKING OR OTHER MEANS AT ALL POINTS OF BEARING.

RC-8: NAILS INSTALLED PARALLEL TO THE GLUE LINES ON THE NARROW FACE OF ENGINEERED LUMBER BEAMS SHALL NOT BE SPACED CLOSER THAN FOUR INCHES FOR 10d COMMON NAILS AND THREE INCHES FOR 8d COMMON NAILS.

RC-9: DO NOT DRILL, NOTCH, CUT (EXCEPT TO LENGTH), OR ALTER ENGINEERED LUMBER BEAMS OR JOISTS WITHOUT WRITTEN APPROVAL OF FABRICATOR AND REVIEW BY STRUCTURAL ENGINEER.

RC-10: THE FOLLOWING ALLOWABLE STRESSES WERE USED IN DESIGN OF WOOD FRAMING MEMBERS.

NO.1/NO.2 SPRUCE-PINE-FIR:

F_b =	875 PSI
F_t =	450 PSI
F_v =	135 PSI
$F_{c\perp}$ =	425 PSI
F_c =	1,150 PSI
E =	1,400,000 PSI

NO.2 SOUTHERN PINE:

	F_b	F_c	F_v	$F_{c\perp}$	F_t	E
2"-4" WIDE	1,100 PSI	675 PSI	175 PSI	565 PSI	1,450 PSI	1,400,000 PSI
5"-6" WIDE	1,000 PSI	600 PSI	175 PSI	565 PSI	1,400 PSI	1,400,000 PSI
8" WIDE	925 PSI	550 PSI	175 PSI	565 PSI	1,350 PSI	1,400,000 PSI
10" WIDE	800 PSI	475 PSI	175 PSI	565 PSI	1,300 PSI	1,400,000 PSI
12" WIDE	750 PSI	450 PSI	175 PSI	565 PSI	1,250 PSI	1,400,000 PSI

POST-INSTALLED ANCHORS

PA-1: ALL POST-INSTALLED ANCHORS (IN CONCRETE OR CMU) ARE TO BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (INCLUDING BUT NOT LIMITED TO DRILL BIT SIZE, PROPER CLEANING OF HOLES, INSTALLATION TORQUE, AND TEMPERATURE CONSTRAINTS).

PA-2: WHEN A SPECIFIC PRODUCT AND MANUFACTURER IS REFERENCED IN THE CONTRACT DOCUMENTS, THAT SPECIFIC PRODUCT SHALL BE USED UNLESS AN ALTERNATE PRODUCT IS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CODE COMPLIANT STRENGTH DESIGN CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC - ES REPORT SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

PA-3: THE ANCHOR MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT DURING THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR TO REVIEW AND APPROVE OF THE CONTRACTOR'S INSTALLATION PROCEDURES. SUBMIT REPORT FROM MANUFACTURER'S REPRESENTATIVE FOR DUNBAR REVIEW. INSTALLATION OF ALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUIVALENT. SUBMIT CREDENTIALS OF CERTIFIED INSTALLERS. CONTINUOUS INSPECTION IS REQUIRED FOR ALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS. REMOVE AND REPLACE MISPLACED OR MALFUNCTIONING ANCHORS. FILL EMPTY ANCHOR HOLES AND PATCH FAILED ANCHOR LOCATIONS WITH HIGH-STRENGTH, NONMETALLIC GROUT.

PA-4: FASTENERS REFERRED TO AS "SCREW ANCHOR" ON THE DRAWINGS SHALL BE ONE OF:

- TITEN HD BY SIMPSON STRONG-TIE
- KWIK HUS-EZ (KH-EZ) BY HILTI
- SCREW-BOLT+ BY DEWALT

FOR THESE SCREW ANCHORS LISTED, USE STANDARD ANSI DRILL BIT (NO SPECIAL BIT REQUIRED). PROVIDE HOLES IN STEEL MEMBERS 1/8" LARGER THAN NOMINAL DIAMETER OF ANCHOR. PROVIDE STD ZINC-PLATED CARBON STEEL ANCHOR UNLESS MECHANICAL GALVANIZED FINISH OR STAINLESS STEEL ANCHOR IS INDICATED ON DRAWINGS.

POST-INSTALLED ANCHORS (CONTINUED)

PA-5: CHEMICAL ADHESIVE ANCHORING SYSTEMS USED IN HOLLOW MASONRY GENERICALLY REFERRED TO AS ADHESIVE ANCHORING SYSTEMS SHALL BE ONE OF:

- HIT-HY 270 BY HILTI
- SET XP SYSTEM BY SIMPSON STRONG-TIE
- AC100+ GOLD BY DEWALT

USE SCREEN TUBES BY THE SAME MANUFACTURER WHEN USING THESE ADHESIVES IN MASONRY WITH VOIDS OR HOLLOW CMU. INSTALL USING DRILL IN ROTATION-ONLY MODE TO KEEP FROM DAMAGING INSIDE OF FACE SHELL.

PA-6: CHEMICAL ADHESIVE ANCHORING SYSTEMS USED IN SOLID OR GROUTED MASONRY GENERICALLY REFERRED TO AS ADHESIVE ANCHORING SYSTEMS SHALL BE ONE OF:

1. SET XP BY SIMPSON STRONG TIE
2. HIT-HY 270 BY HILTI
3. AC100+ GOLD BY DEWALT

PA-7: CHEMICAL ADHESIVE ANCHORING SYSTEMS USED IN CONCRETE GENERICALLY REFERRED TO AS "ADHESIVE ANCHORS" SHALL BE ONE OF :

- SET - 3G BY SIMPSON STRONG-TIE
- HIT-RE 500-V3 BY HILTI
- HIT-HY 200-V3 BY HILTI
- PURE 110+ BY DEWALT
- AC 200+ BY DEWALT

THREADED ROD ANCHORS USED WITH THESE SYSTEMS SHALL BE PROVIDED BY THE ADHESIVE MANUFACTURER AND HAVE A MINIMUM STEEL STRENGTH OF F_y = 36 KSI UNLESS NOTED OTHERWISE.

PA-8: CHEMICAL ADHESIVE ANCHOR SYSTEMS FOR USE WITH REINF STEEL IN CONCRETE SHALL BE ONE OF:

- SET-3G BY SIMPSON STRONG-TIE
- HIT-RE 500-V3 BY HILTI
- HIT-HY 200 BY HILTI

UNLESS NOTED OTHERWISE, REINFORCING STEEL USED WITH THESE SYSTEMS SHALL BE ASTM A615 GRADE 60.

PA-9: FASTENERS REFERRED TO AS "EXPANSION ANCHORS" OR "WEDGE ANCHORS" SHALL BE ONE OF:

- KWIK BOLT 1 (KB1) BY HILTI
- STRONG-BOLT 2 BY SIMPSON STRONG-TIE
- POWER- STUD+SD2 BY DEWALT, POWER-STUD+SD6 BY DEWALT (STAINLESS)
- KWIK BOLT TZ2 (KB-TZ2) BY HILTI

WHEN STAINLESS STEEL ANCHOR IS CALLED OUT, PROVIDE TYPE 316. IF KB-TZ2 PRODUCT IS CALLED OUT SPECIFICALLY ON SECTIONS AND DETAILS, ANY PROPOSED SUBSTITUTIONS REQUIRE AN ENGINEERED SOLUTION INDICATING A LARGER QUANTITY OF ANCHORS REQUIRED TO PROVIDE THE SAME CAPACITY AS THE SPECIFIED PRODUCT.

PA-10: FASTENERS GENERICALLY REFERRED TO AS "CONCRETE/MASONRY SCREWS" SHALL BE ONE OF:

1. TITEN TURBO BY SIMPSON STRONG-TIE
2. KWIK-CON II+ BY HILTI
3. TAPPER+ BY DEWALT

PA-11: ANCHORS OR REINFORCING STEEL SHALL BE INSTALLED ONLY IN DRY CONCRETE A MINIMUM OF 21 DAYS OLD. DRILL AND INSTALL BY ONE OF THE FOLLOWING METHODS:

- USE ONLY A CARBIDE BIT (NO CORE DRILLING) AND CLEAN HOLE FOLLOWING MANUFACTURER'S INSTRUCTIONS USING AIR COMPRESSOR WITH NOZZLE AND WIRE BRUSH PROVIDED BY ADHESIVE MANUFACTURER.
- USE HOLLOW DRILL BIT SYSTEM WITH ACCOMPANYING VACUUM PROVIDED BY THE ADHESIVE MANUFACTURER.

FOR ADHESIVE ANCHORS, OVERHEAD HOLES AND ANY HOLES GREATER THAN 10 INCHES DEEP REQUIRE THE USE OF A PISTON PLUG AT THE END OF THE ADHESIVE APPLICATOR. USE ADHESIVE RETAINING CAP AT OVERHEAD CONDITIONS.

PA-12: FASTENERS GENERICALLY REFERRED TO AS "PAF" (POWER ACTUATED FASTENERS) SHALL BE ONE OF :

PAF INTO CONCRETE OR STRUCTURAL STEEL:

ANCHOR	MANUF	SHANK DIAMETER
1. X-U	HILTI	0.157"
2. 8 mm HEAD SPIRAL CSI PIN	DEWALT FASTENERS	0.157"
3. PDPA	SIMPSON	0.157"

USE ONLY HILTI X-U PAF IN STRUCTURAL STEEL GREATER THAN 1/2" THICK. 1/2" MINIMUM POINT PENETRATION IS REQUIRED IN STRUCTURAL STEEL GREATER THAN 1/2" THICK.

PROVIDE MINIMUM 1 1/4" EMBEDMENT OF PAF INTO CONCRETE.

PA-13: OTHER MANUFACTURER'S PRODUCTS MAY BE SUBMITTED AS A FORMAL REQUEST FOR SUBSTITUTION IF REQUIREMENTS ABOVE ARE MET. SIZES AND EMBEDMENTS OF SUBSTITUTE ANCHORS SHALL BE INCREASED AS NECESSARY TO ACHIEVE SHEAR AND TENSION VALUES PUBLISHED FOR LISTED ANCHORS. CONTRACTOR SHALL SUBMIT A COMPLETE SUBSTITUTION LIST FOR ALL ANCHOR SIZES AND SUBSTRATES. DUE TO HIGH VARIABILITY BETWEEN NOMINAL SIZES AND ACTUAL SIZES OF SCREW ANCHORS (AND HOLES REQUIRED), THIS SUBSTITUTION REQUEST SHALL BE SUBMITTED PRIOR TO STEEL SHOP DRAWINGS. ANY PRODUCTS SUBMITTED AS A REQUEST FOR SUBSTITUTION IN CONCRETE SHALL BE COMPLIANT WITH ACI 318-14 CHAPTER 17 AND APPROVED FOR USE IN CRACKED CONCRETE. PROPOSED SUBSTITUTE PRODUCTS SHALL HAVE AN ICC-ES REPORT WHICH CONSIDERS EQUIVALENT EDGE AND SPACING REQUIREMENTS AS THE SPECIFIED PRODUCTS.

ABBREVIATIONS

AB = ANCHOR BOLT
AFF = ABOVE FINISHED FLOOR
APC = ARCHITECTURAL PRECAST CONCRETE
ARCH = ARCHITECTURAL
BLDG = BUILDING
BM = BEAM
BOT = BOTTOM
BRG = BEARING
CANT = CANTILEVER
CFS-S = COLD-FORMED STEEL- STRUCTURAL
CFS-NS= COLD-FORMED STEEL- NON STRUCTURAL
CFST = COLD-FORMED STEEL TRUSS
CIP = CAST-IN-PLACE
CJ = CONTROL JOINT
CL = CENTERLINE
CLG = CEILING
CLR = CLEAR
CLSM = CONTROLLED LOW-STRENGTH MATERIAL
CMU = CONCRETE MASONRY UNIT
COL = COLUMN
CONC = CONCRETE
CONN = CONNECTION
CONT = CONTINUOUS
COORD = COORDINATE
CSP = CONCRETE SURFACE PROFILE
DBA = DEFORMED BAR ANCHOR
DET = DETAIL
DFT = DRY FILM THICKNESS
DIA = DIAMETER
DIAG = DIAGONAL
DIM = DIMENSION
DL = DEAD LOAD
DN = DOWN
DWGS= DRAWINGS
EA = EACH
EJ = EXPANSION JOINT
EL = ELEVATION
ELEV = ELEVATOR
EOS = EDGE OF SLAB
EQ = EQUAL
EQUIP = EQUIPMENT
EXIST = EXISTING
EW = EACH WAY
EXP = EXPANSION
EXT = EXTERIOR
FFE = FINISHED FLOOR ELEVATION
FLR = FLOOR
FLT = FLAT BAR
FRT = FIRE RETARDANT TREATED
FTG = FOOTING
GA = GAUGE
GALV = GALVANIZED
GC = GENERAL CONTRACTOR
GT = GIRDER TRUSS
HK = HOOK
HORIZ = HORIZONTAL
HS = HIGH STRENGTH
HT = HEIGHT
INT = INTERIOR
JBE = JOIST BEARING ELEVATION
JT = JOINT
LBS = POUNDS
LL = LIVE LOAD
LLH = LONG LEG HORIZONTAL
LLV = LONG LEG VERTICAL
LSH = LONG SIDE HORIZONTAL
LSV = LONG SIDE VERTICAL
LVL = LAMINATED VENEER LUMBER
LW = LIGHT WEIGHT
MAS = MASONRY
MAX = MAXIMUM
MECH = MECHANICAL
MFR = MANUFACTURER
MISC = MISCELLANEOUS
MIN = MINIMUM
[NC] = NON-COMPOSITE
NO. = NUMBER
NIC = NOT IN CONTRACT
NTS = NOT TO SCALE
NW = NORMAL WEIGHT
OC = ON CENTER
OPP = OPPOSITE
OH = OPPOSITE HAND
OWSJ = OPEN WEB STEEL JOIST
PAF = POWDER ACTUATED FASTENER
PL = PLATE
PLF = POUNDS PER LINEAR FOOT
POJ = PLANE OF JOIST
PSF = POUNDS PER SQUARE FOOT
PSI = POUNDS PER SQUARE INCH
REF = REFERENCE
REINF = REINFORCING
REQD = REQUIRED
SECT = SECTION
SIM = SIMILAR
SOG = SLAB-ON-GROUND
SPA = SPACE
STD = STANDARD
STIFF = STIFFENER
TBE = TRUSS BEARING ELEVATION
T&B = TOP AND BOTTOM
T&G = TONGUE AND GROOVE
TOB = TOP OF BEAM
TOC = TOP OF CONCRETE
TOS = TOP OF STEEL
TYP = TYPICAL
UNO = UNLESS NOTED OTHERWISE
VERT = VERTICAL
WCJ = WALL CONTROL JOINT
WT = WEIGHT
WWF = WELDED WIRE FABRIC
(H) = HIGH
(L) = LOW

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PROFESSIONAL ENGINEER

PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

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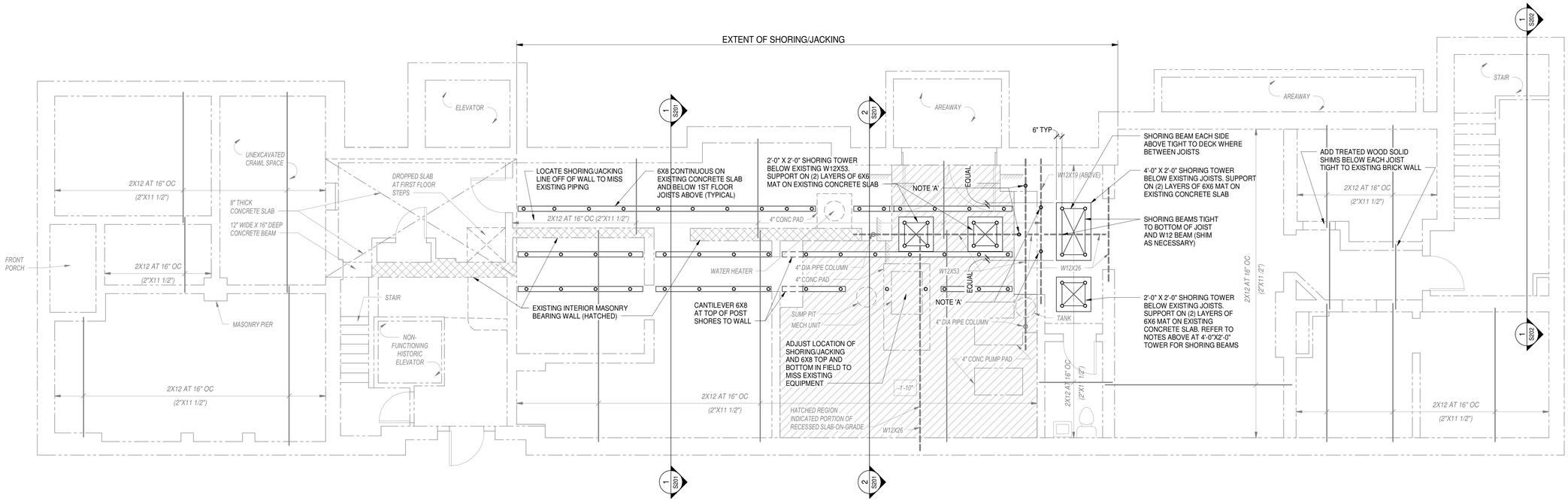
ISSUE
01/26/2024 - WORKING DRAWINGS 4

GENERAL STRUCTURAL NOTES

S001



N

B S100

BASEMENT SHORING/JACKING SUPPORT PLAN (1ST FLOOR FRAMING PLAN)

1/4"=1'-0"

1. EXISTING BASEMENT FLOOR ELEVATION = (-8'-1 1/2" ±) MEASURED RELATIVE TO EXISTING 1ST FLOOR ELEVATION = (+0'-0") UNLESS NOTED THUS ±X'-X" RELATIVE TO EXISTING BASEMENT FLOOR.
2. REFERENCE DRAWING S301 FOR TYPICAL SHORING DETAILS.
3. FLOOR LIVE LOADING USED FOR DESIGN:
   - 20 PSF CONSTRUCUION LOAD TYPICAL UNO
4. ALL LUMBER SHOWN SHALL BE NO. 2 SOUTHERN PINE.
5. PERIODICALLY INSPECT SHORING FOR DAMAGE OR MOVEMENT.
6. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE FABRICATION AND CONSTRUCTION OF ANY NEW STRUCTURAL MEMBERS.
7. EXISTING STRUCTURAL INFORMATION SHOWN ON THESE DRAWINGS IS FROM ORIGINAL 1910 DRAWINGS, 1989 SCHERER HALL RENOVATION DRAWINGS AND FIELD OBSERVATIONS. FIELD VERIFY ACTUAL CONDITIONS THAT AFFECT THE WORK ONCE FINISHES ARE REMOVED.

SHORING NOTES:

A. AS 550 POST SHORE BELOW EXISTING BEAM AND DOWN TO EXISTING CONCRETE SLAB

SCALE: 1/4" = 1' - 0"
0' 2' - 0" 4' - 0" 8' - 0"

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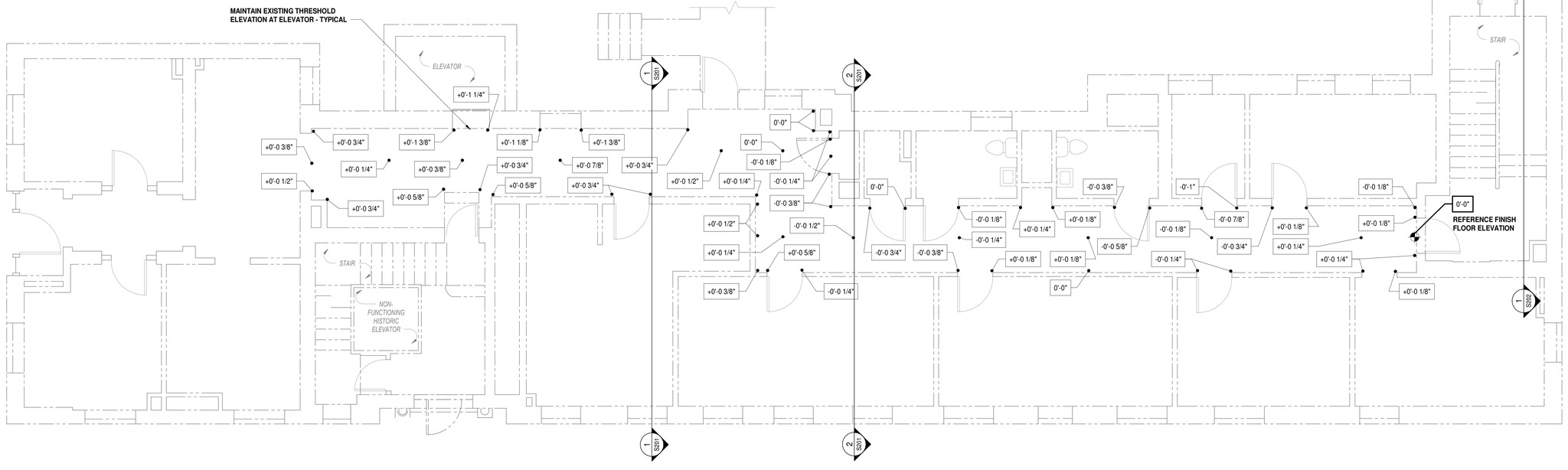
BASEMENT SHORING/JACKING SUPPORT PLAN (1ST FLOOR FRAMING PLAN)

S100



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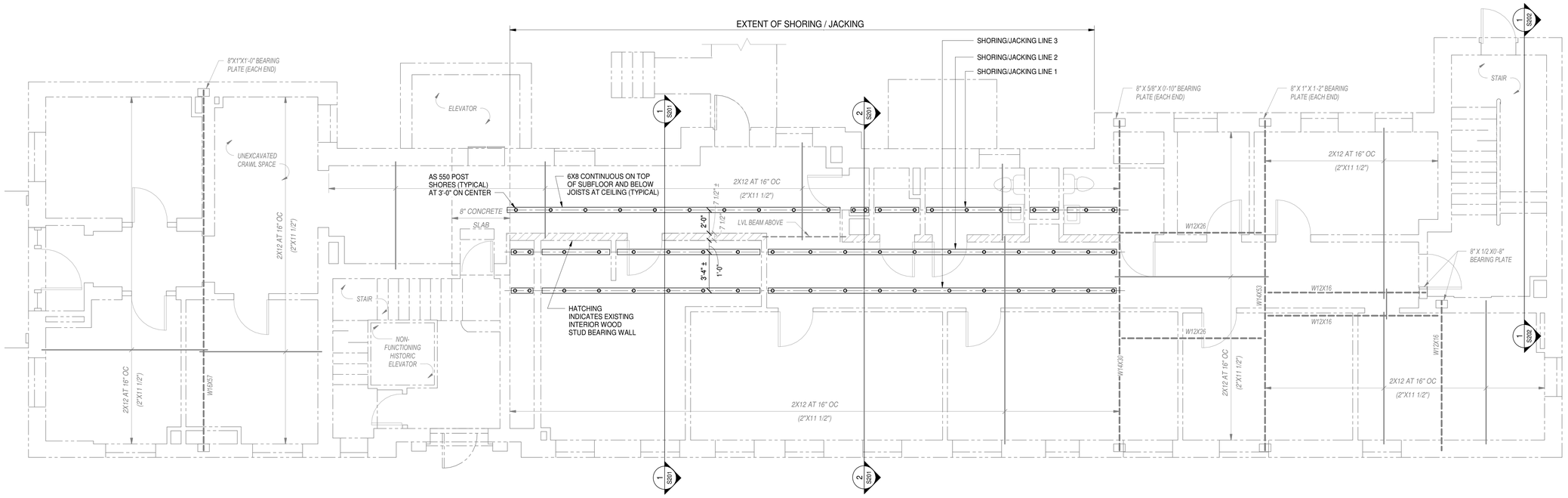
1A S101

1ST FLOOR EXISTING SPOT ELEVATIONS PLAN

1/4"=1'-0"

1. EXISTING 1ST FLOOR ELEVATION = (+0'-0").
2. EXISTING SPOT ELEVATIONS SHOWN ARE INDICATED THUS ±X'-X" RELATIVE TO REFERENCE FINISH FLOOR ELEVATION = 0'-0" AT SOUTH END OF THE CORRIDOR.
3. EXISTING SPOT ELEVATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING FLOOR ELEVATIONS.
4. THE CONTRACTOR SHALL KEEP AN AS-BUILT RECORD OF NEW ELEVATIONS FOR THE FINAL LEVELING THAT CORRESPOND TO EACH OF THE EXISTING SPOT ELEVATIONS BY DUNBAR THAT ARE SHOWN ON THE EXISTING SPOT ELEVATIONS PLAN.



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1B S101

1ST FLOOR SHORING/JACKING SUPPORT PLAN (2ND FLOOR FRAMING PLAN)

1/4"=1'-0"

1. REFERENCE DRAWING S301 FOR TYPICAL SHORING DETAILS.
2. FLOOR LIVE LOADING USED FOR SHORING/JACKING DESIGN:
   - 20 PSF CONSTRUCTION LOAD TYPICAL UNO
3. ALL LUMBER SHOWN SHALL BE NO. 2 SOUTHERN PINE.
4. PERIODICALLY INSPECT SHORING FOR DAMAGE OR MOVEMENT.
5. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE FABRICATION AND CONSTRUCTION OF ANY NEW STRUCTURAL MEMBERS.
6. EXISTING STRUCTURAL INFORMATION SHOWN ON THESE DRAWINGS IS FROM ORIGINAL 1910 DRAWINGS, 1989 SCHERER HALL RENOVATION DRAWINGS, AND LIMITED FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS THAT AFFECT THE WORK ONCE FINISHES ARE REMOVED.

SCALE: 1/4" = 1' - 0"
0' 2' - 0" 4' - 0" 8' - 0"

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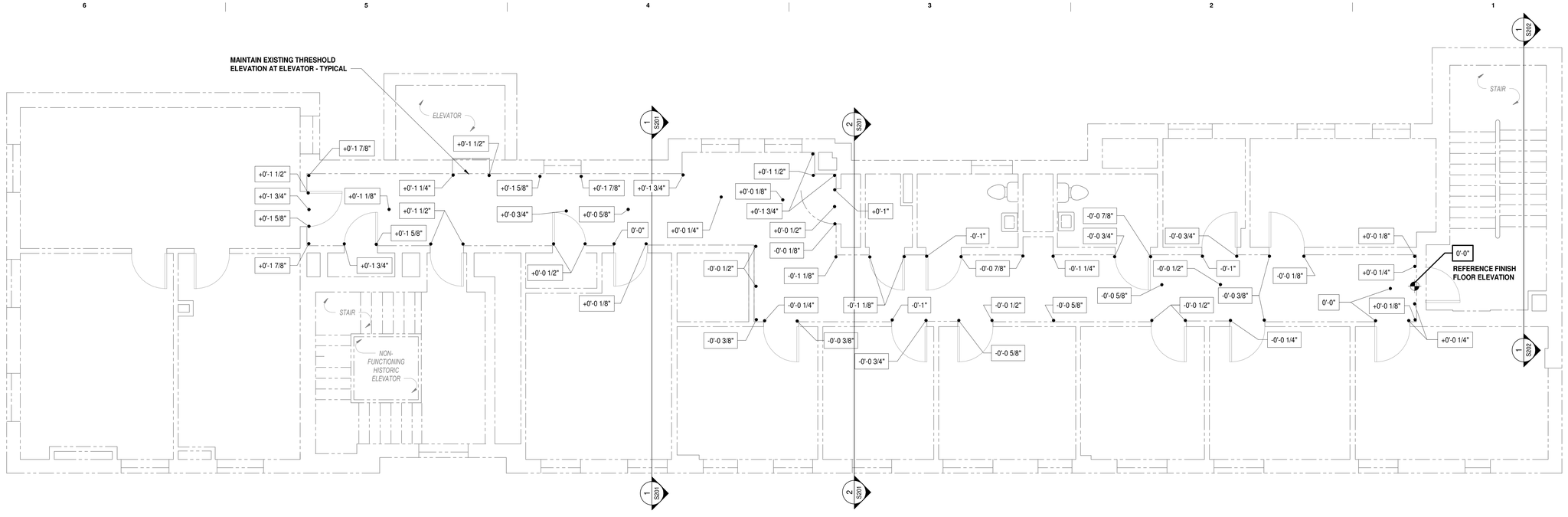
1ST FLOOR EXISTING SPOT ELEVATIONS PLAN AND SHORING/JACKING SUPPORT PLAN (2ND FLOOR FRAMING PLAN)

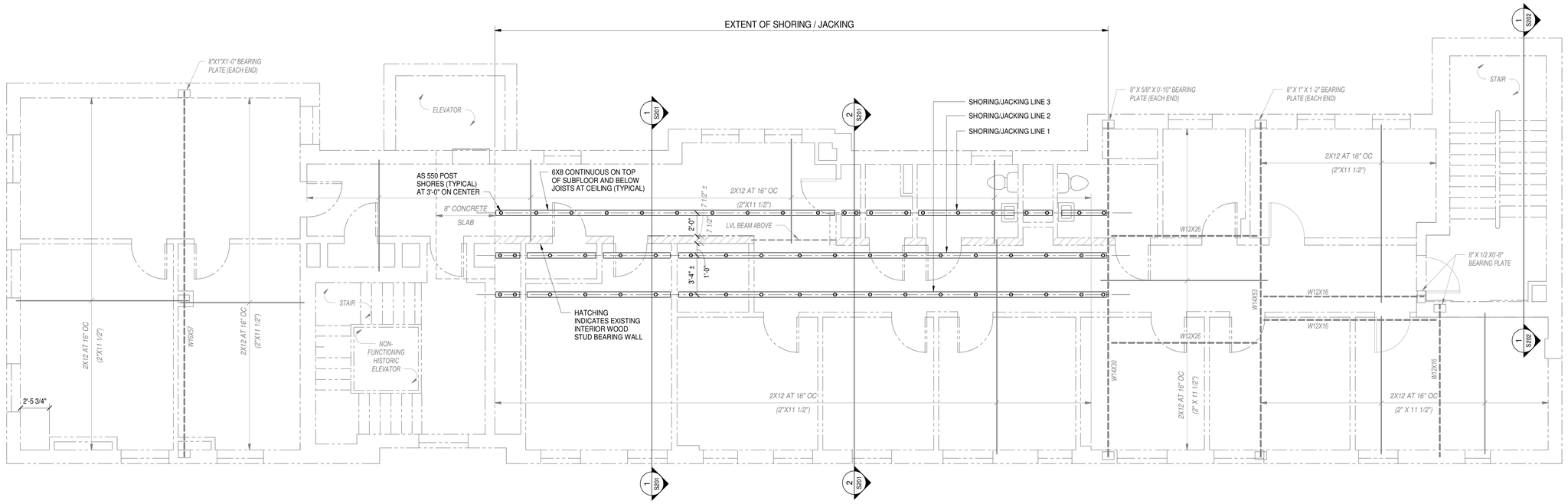
S101



N 2A S102 **2ND FLOOR EXISTING SPOT ELEVATIONS PLAN**

1/4"=1'-0"

1. EXISTING 2ND FLOOR ELEVATION = (+11'-9" ±) MEASURED RELATIVE TO EXISTING 1ST FLOOR ELEVATION (+0'-0").
2. EXISTING SPOT ELEVATIONS SHOWN ARE INDICATED THUS ±X'-X" RELATIVE TO REFERENCE FINISH FLOOR ELEVATION = 0'-0" AT SOUTH END OF THE CORRIDOR.
3. EXISTING SPOT ELEVATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING FLOOR ELEVATIONS.
4. THE CONTRACTOR SHALL KEEP AN AS-BUILT RECORD OF NEW ELEVATIONS FOR THE FINAL LEVELING THAT CORRESPOND TO EACH OF THE EXISTING SPOT ELEVATIONS BY DUNBAR THAT ARE SHOWN ON THE EXISTING SPOT ELEVATIONS PLAN.



N 2B S102 **2ND FLOOR SHORING/JACKING SUPPORT PLAN (3RD FLOOR FRAMING PLAN)**

1/4"=1'-0"

1. REFERENCE DRAWING S301 FOR TYPICAL SHORING DETAILS.
2. FLOOR LIVE LOADING USED FOR SHORING/JACKING DESIGN:
   - 20 PSF CONSTRUCTION LOAD TYPICAL UNO
3. ALL LUMBER SHOWN SHALL BE NO. 2 SOUTHERN PINE.
4. PERIODICALLY INSPECT SHORING FOR DAMAGE OR MOVEMENT.
5. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE FABRICATION AND CONSTRUCTION OF ANY NEW STRUCTURAL MEMBERS.
6. EXISTING STRUCTURAL INFORMATION SHOWN ON THESE DRAWINGS IS FROM ORIGINAL 1910 DRAWINGS, 1989 SCHERER HALL RENOVATION DRAWINGS, AND LIMITED FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS THAT AFFECT THE WORK ONCE FINISHES ARE REMOVED.

SCALE: 1/4" = 1' - 0"
0" 2' - 0" 4' - 0" 8' - 0"

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01/26/2024
PROFESSIONAL ENGINEER

PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

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ISSUE
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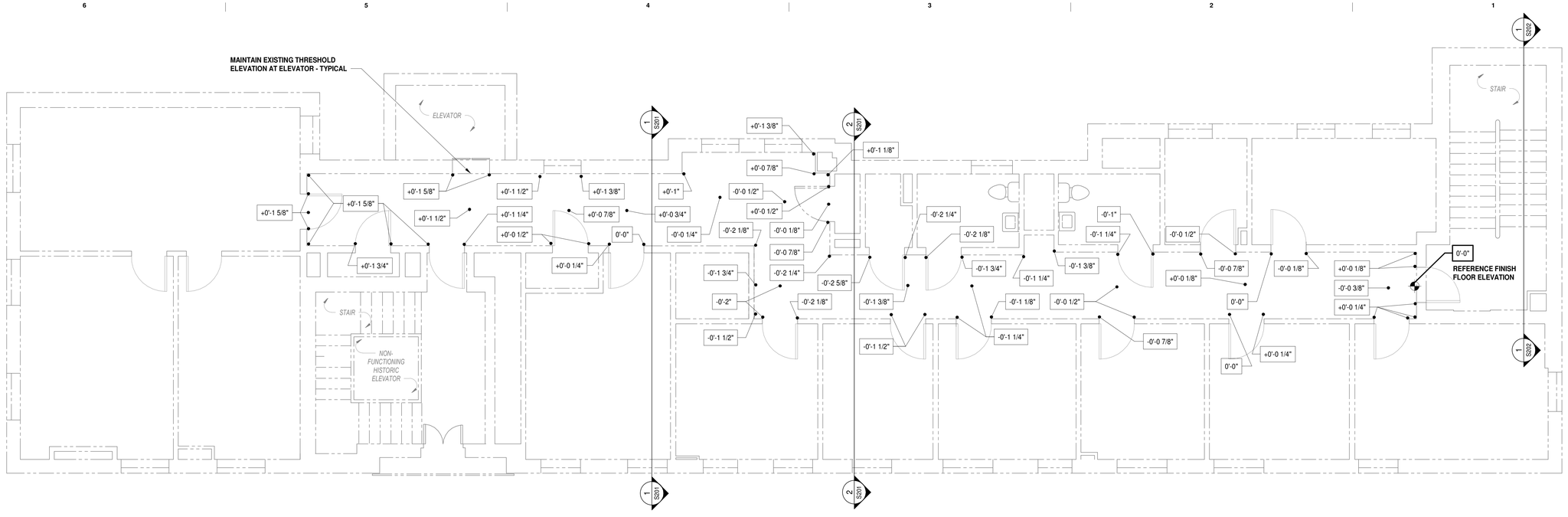
2ND FLOOR EXISTING SPOT ELEVATIONS PLAN AND SHORING/JACKING SUPPORT PLAN (3RD FLOOR FRAMING PLAN)

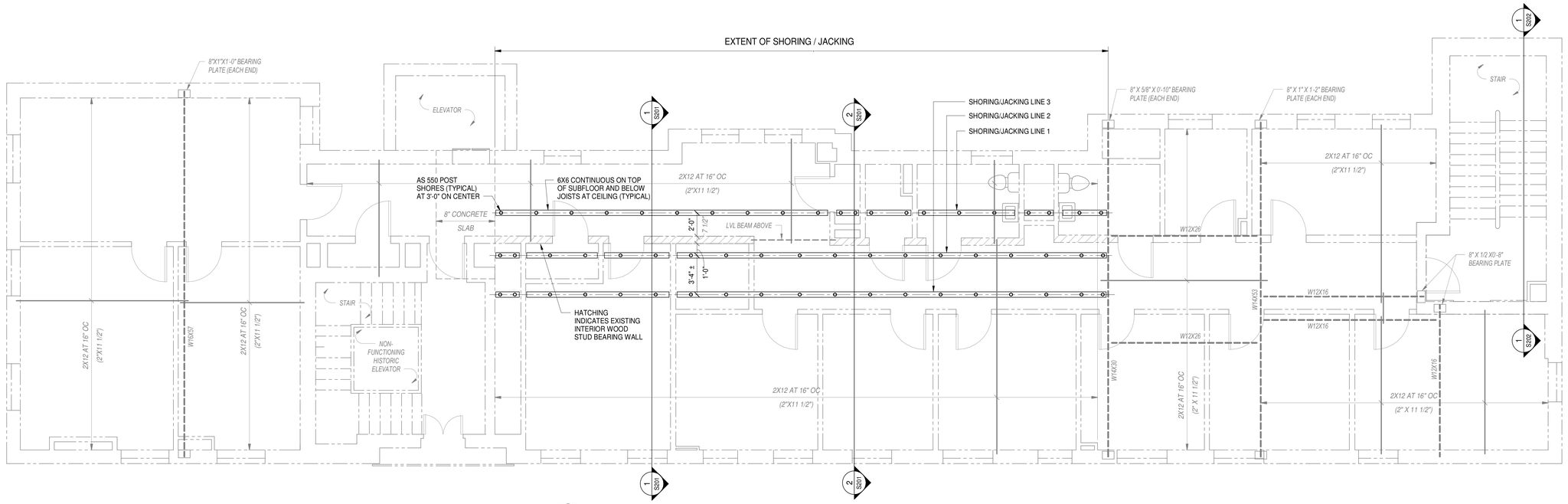
S102



N 3A S103 **3RD FLOOR EXISTING SPOT ELEVATIONS PLAN**

1/4"=1'-0"

1. EXISTING 3RD FLOOR ELEVATION = (+23'-0" ±) MEASURED RELATIVE TO EXISTING 1ST FLOOR ELEVATION (+0'-0").
2. EXISTING SPOT ELEVATIONS SHOWN ARE INDICATED THUS [±X'-X"] RELATIVE TO REFERENCE FINISH FLOOR ELEVATION = [0'-0"] AT SOUTH END OF THE CORRIDOR.
3. EXISTING SPOT ELEVATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING FLOOR ELEVATIONS.
4. THE CONTRACTOR SHALL KEEP AN AS-BUILT RECORD OF NEW ELEVATIONS FOR THE FINAL LEVELING THAT CORRESPOND TO EACH OF THE EXISTING SPOT ELEVATIONS BY DUNBAR THAT ARE SHOWN ON THE EXISTING SPOT ELEVATIONS PLAN.



N 3B S103 **3RD FLOOR SHORING/JACKING SUPPORT PLAN (4TH FLOOR FRAMING PLAN)**

1/4"=1'-0"

1. REFERENCE DRAWING S301 FOR TYPICAL SHORING DETAILS.
2. FLOOR LIVE LOADING USED FOR SHORING/JACKING DESIGN:
   - 20 PSF CONSTRUCTION LOAD TYPICAL UNO
3. ALL LUMBER SHOWN SHALL BE NO. 2 SOUTHERN PINE.
4. PERIODICALLY INSPECT SHORING FOR DAMAGE OR MOVEMENT.
5. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE FABRICATION AND CONSTRUCTION OF ANY NEW STRUCTURAL MEMBERS.
6. EXISTING STRUCTURAL INFORMATION SHOWN ON THESE DRAWINGS IS FROM ORIGINAL 1910 DRAWINGS, 1989 SCHERER HALL RENOVATION DRAWINGS, AND LIMITED FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS THAT AFFECT THE WORK ONCE FINISHES ARE REMOVED.

SCALE: 1/4" = 1' - 0"
0' 2' - 0" 4' - 0" 8' - 0"

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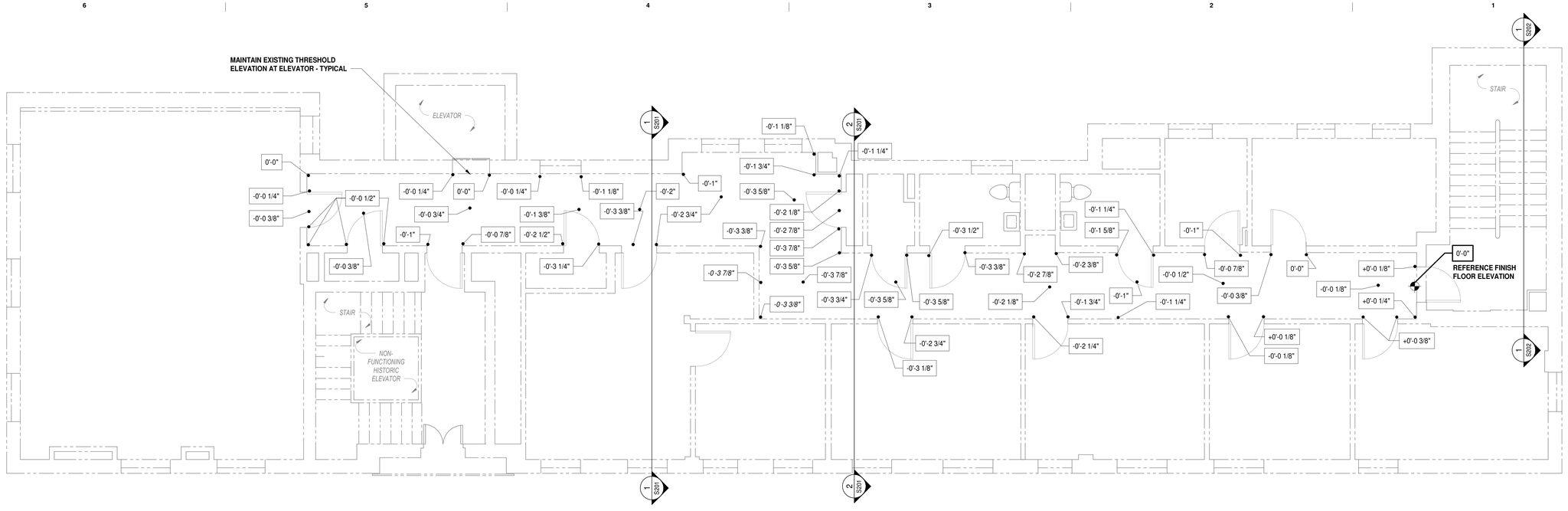
3RD FLOOR EXISTING SPOT ELEVATIONS PLAN AND SHORING/JACKING SUPPORT PLAN (4TH FLOOR FRAMING PLAN)

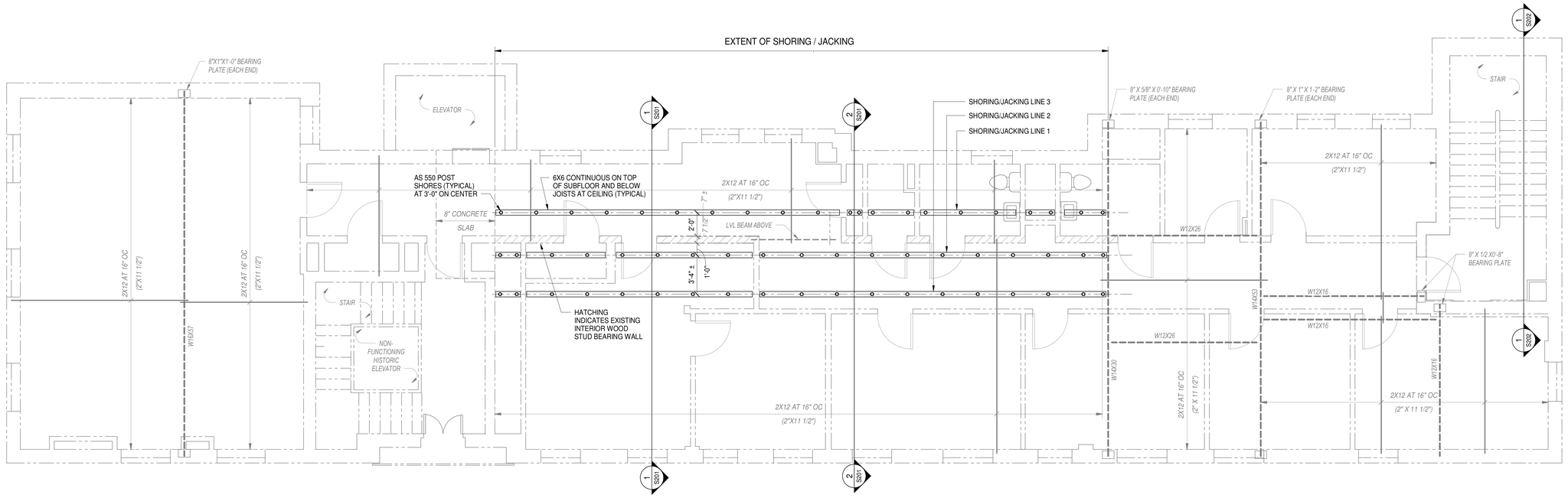
S103



N 4A S104 **4TH FLOOR EXISTING SPOT ELEVATIONS PLAN**

1/4"=1'-0"

1. EXISTING 4TH FLOOR ELEVATION = (+34'-2 1/2" ±) MEASURED RELATIVE TO EXISTING 1ST FLOOR ELEVATION (+0'-0").
2. EXISTING SPOT ELEVATIONS SHOWN ARE INDICATED THUS ±X'-X" RELATIVE TO REFERENCE FINISH FLOOR ELEVATION = 0'-0" AT SOUTH END OF THE CORRIDOR.
3. EXISTING SPOT ELEVATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING FLOOR ELEVATIONS.
4. THE CONTRACTOR SHALL KEEP AN AS-BUILT RECORD OF NEW ELEVATIONS FOR THE FINAL LEVELING THAT CORRESPOND TO EACH OF THE EXISTING SPOT ELEVATIONS BY DUNBAR THAT ARE SHOWN ON THE EXISTING SPOT ELEVATIONS PLAN.



N 4B S104 **4TH FLOOR SHORING/JACKING SUPPORT PLAN (5TH FLOOR FRAMING PLAN)**

1/4"=1'-0"

1. REFERENCE DRAWING S301 FOR TYPICAL SHORING DETAILS.
2. FLOOR LIVE LOADING USED FOR SHORING/JACKING DESIGN:
   - 20 PSF CONSTRUCTION LOAD TYPICAL UNO
3. ALL LUMBER SHOWN SHALL BE NO. 2 SOUTHERN PINE.
4. PERIODICALLY INSPECT SHORING FOR DAMAGE OR MOVEMENT.
5. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE FABRICATION AND CONSTRUCTION OF ANY NEW STRUCTURAL MEMBERS.
6. EXISTING STRUCTURAL INFORMATION SHOWN ON THESE DRAWINGS IS FROM ORIGINAL 1910 DRAWINGS, 1989 SCHERER HALL RENOVATION DRAWINGS, AND LIMITED FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS THAT AFFECT THE WORK ONCE FINISHES ARE REMOVED.

SCALE: 1/4" = 1' - 0"
0' 2' - 0" 4' - 0" 8' - 0"

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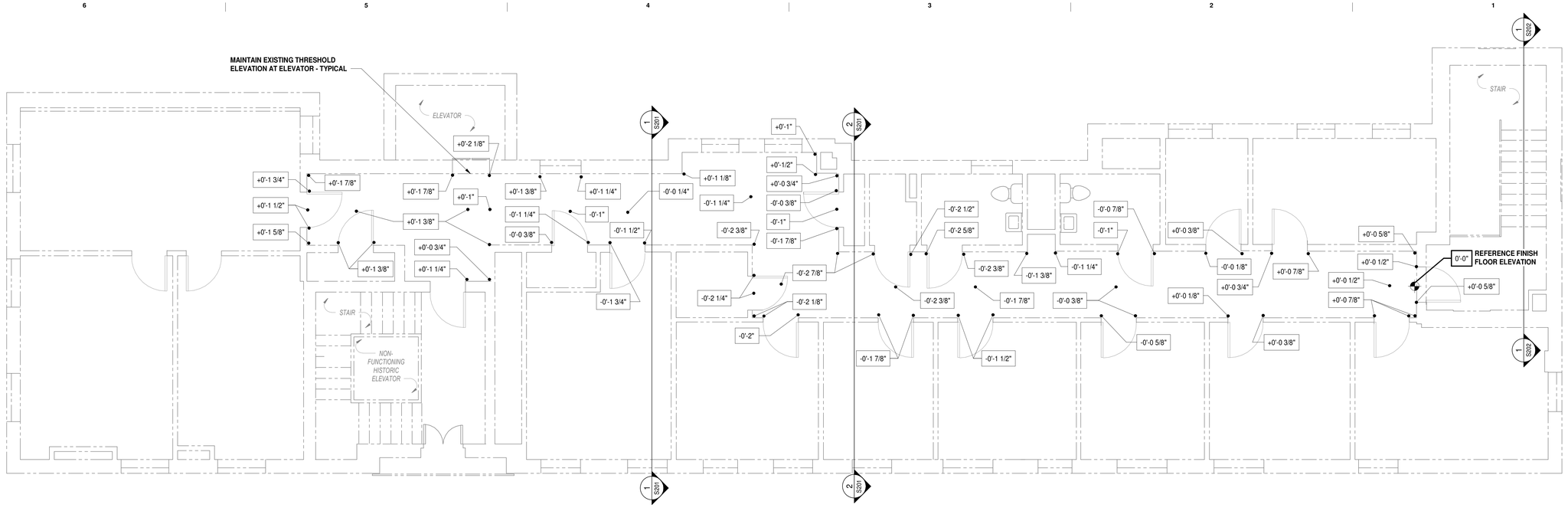
4TH FLOOR EXISTING SPOT ELEVATIONS PLAN AND SHORING/JACKING SUPPORT PLAN (5TH FLOOR FRAMING PLAN)

S104



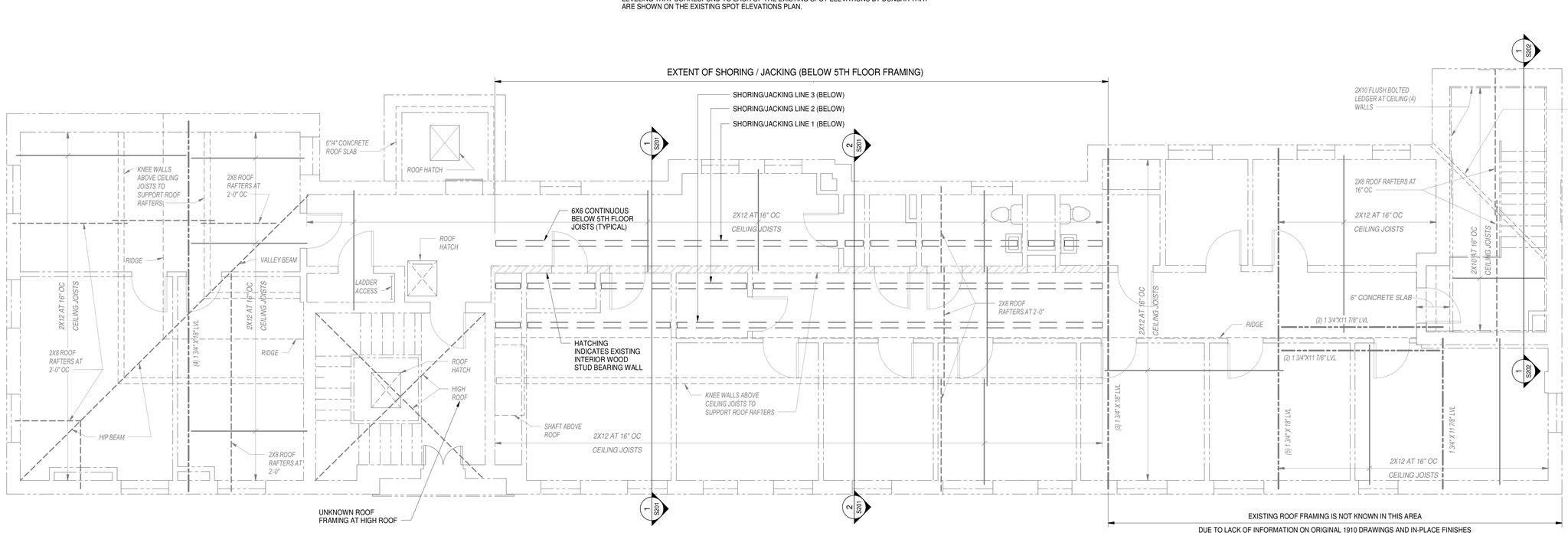
N

5A / S105

5TH FLOOR EXISTING SPOT ELEVATIONS PLAN

1/4"=1'-0"

1. EXISTING 5TH FLOOR ELEVATION = (+45'-5" ±) MEASURED RELATIVE TO EXISTING 1ST FLOOR ELEVATION (+0'-0").
2. EXISTING SPOT ELEVATIONS SHOWN ARE INDICATED THUS ±X'-X" RELATIVE TO REFERENCE FINISH FLOOR ELEVATION = 0'-0" AT SOUTH END OF THE CORRIDOR.
3. EXISTING SPOT ELEVATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING FLOOR ELEVATIONS.
4. THE CONTRACTOR SHALL KEEP AN AS-BUILT RECORD OF NEW ELEVATIONS FOR THE FINAL LEVELING THAT CORRESPOND TO EACH OF THE EXISTING SPOT ELEVATIONS BY DUNBAR THAT ARE SHOWN ON THE EXISTING SPOT ELEVATIONS PLAN.



N

5B / S105

5TH FLOOR SHORING/JACKING SUPPORT PLAN (CEILING AND ROOF FRAMING PLAN)

1/4"=1'-0"

1. REFERENCE DRAWING S301 FOR TYPICAL SHORING DETAILS.
2. FLOOR LIVE LOADING USED FOR SHORING/JACKING DESIGN:
   - 20 PSF CONSTRUCTION LOAD TYPICAL UNO
3. ALL LUMBER SHOWN SHALL BE NO. 2 SOUTHERN PINE.
4. PERIODICALLY INSPECT SHORING FOR DAMAGE OR MOVEMENT.
5. FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE FABRICATION AND CONSTRUCTION OF ANY NEW STRUCTURAL MEMBERS.
6. EXISTING STRUCTURAL INFORMATION SHOWN ON THESE DRAWINGS IS FROM ORIGINAL 1910 DRAWINGS, 1989 SCHERER HALL RENOVATION DRAWINGS, AND LIMITED FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS THAT AFFECT THE WORK ONCE FINISHES ARE REMOVED.

SCALE: 1/4" = 1' - 0"
0' 2' - 0" 4' - 0" 8' - 0"

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5TH FLOOR EXISTING SPOT ELEVATIONS PLAN AND SHORING/JACKING SUPPORT PLAN (CEILING AND ROOF FRAMING PLAN)

S105

SHORING / JACKING NOTES

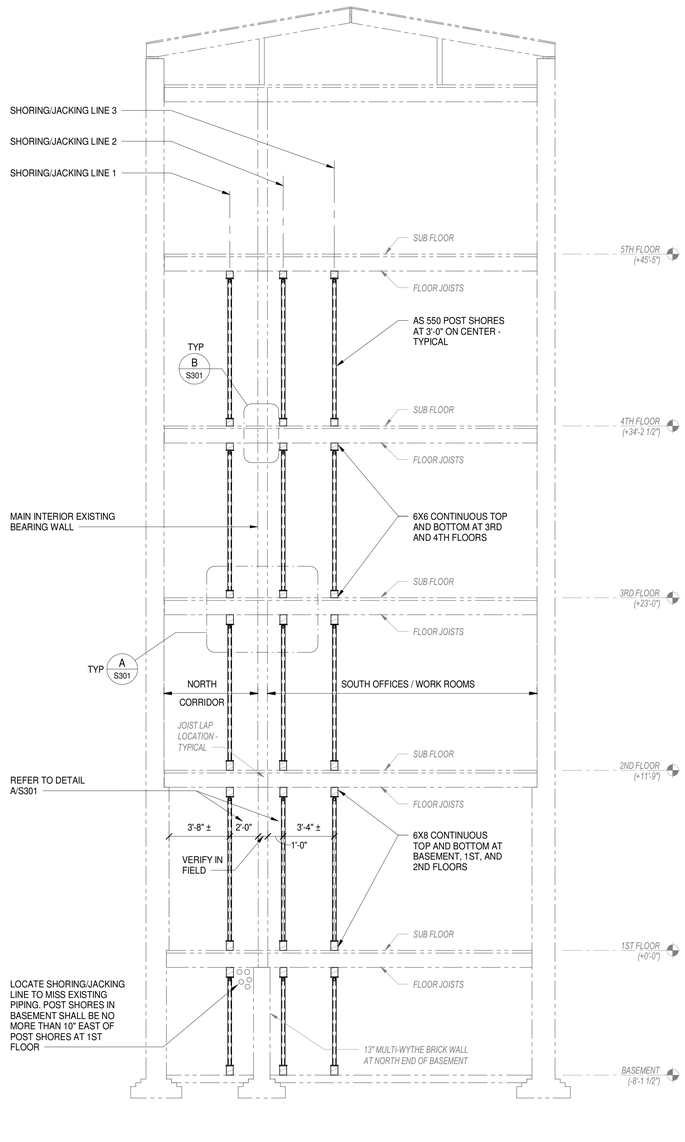
1. SHORING / JACKING SHOWN ON THESE DRAWINGS IS REQUIRED DUE TO UNLEVEL FLOORS 2-5 THAT HAVE SAGGED BEYOND AN ACCEPTABLE LEVEL AS SHOWN ON THE EXISTING SPOT ELEVATION PLANS.
2. THE ORIGINAL DRAWINGS, DATED JANUARY 1910, INDICATE IT WAS AN APARTMENT BUILDING. IT APPEARS VCU ACQUIRED THE BUILDING IN THE 1970's BASED ON DOCUMENTS IN THEIR ARCHIVES. A MAJOR RENOVATION WAS DONE IN 1989 WHEN THE BUILDING WAS RENOVATED TO AN OFFICE BUILDING. BASED UPON DUNBAR INVESTIGATIONS, IT APPEARS THAT THE INTERIOR CORRIDOR BEARING WALL WAS DISTURBED DURING CONSTRUCTION, RESULTING IN THE CURRENT UNLEVEL FLOORS IN THE CORRIDOR. IT ALSO APPEARS THAT CONTINUED MINOR DOWNWARD MOVEMENT OF THE FLOORS HAS OCURRED SINCE THE RENOVATION, RESULTING IN REPAIRS TO DOORS AND WALLS.
3. ERECT SHORING / JACKING LINES AS SHOWN ON THE DRAWINGS. SHORING / JACKING LINES AND DETAILS MAY HAVE TO BE ADJUSTED ONCE EXISTING FINISHES ARE REMOVED. INSTALL SHORING / JACKING LINES IN THE BASEMENT DOWN TO THE EXISTING CONCRETE SLAB-ON-GRADE TO ALLOW JACKING ABOVE THE FIRST FLOOR. TIGHTEN JACKS IN PLACE. LOCATE SHORING / JACKING LINES TO MINIMIZE REMOVAL OF EXISTING EQUIPMENT, DUCTWORK, PIPING, AND ELECTRICAL CONDUIT. REFER TO SHORING / JACKING DETAILS FOR MINIMIZING DEMOLITION.
4. ERECT SHORING / JACKING LINES BEGINNING AT THE SECOND FLOOR AND PROCEEDING UPWARD TO EACH SUCCESSIVE FLOOR THROUGH THE FOURTH FLOOR. CENTER OF SHORING / JACKING POSTS CAN BE OFFSET FROM FLOOR-TO-FLOOR NO MORE THAN 11" TO MINIMIZE DEMOLITION AND REMOVAL OF EXISTING MEP ELEMENTS.
5. ERECT SHORING / JACKING AND HAND TIGHTEN TO STRUCTURE ABOVE. USE 'AS 550' POST SHORE SCREW JACKS AS SHOWN.
6. REFER TO SHORING / JACKING LOAD TABLE THIS SHEET.
7. BEGIN JACKING THE SECOND FLOOR BY USE OF SCREW JACKS IN COMBINATION WITH HYDRAULIC JACKS SIMILAR TO BUCKINGHAM JACKING-SHORING POSTS AS NECESSARY TO RAISE THE STRUCTURE FROM THE SECOND FLOOR UP TO AND INCLUDING THE ROOF. JACK CAUTIOUSLY AND GRADUALLY TO PREVENT UNNECESSARY DAMAGE TO THE STRUCTURE. MONITOR THE FLOOR AND ROOF LEVELS ABOVE TO DETERMINE HOW MUCH JACKING SHOULD BE DONE FROM THE SECOND FLOOR. SINCE ALL FLOOR AND ROOF LEVELS HAVE NOT SETTLED EQUALLY, THIS MAY REQUIRE SUBSEQUENT JACKING ABOVE THE SECOND FLOOR. IF A FLOOR LEVEL IS OVER-JACKED UPWARD AND PROUD, THIS LEVEL MAY REQUIRE CUTTING THE TOP OF THE EXISTING STUD WALL AND LOWERING THE FLOOR LEVEL. THE INTENTION OF THE JACKING IS TO RAISE THE FLOOR LEVELS TO WITHIN 1/2" OF LEVEL. EXISTING ARCHITECTURAL FINISHES WILL BE REMOVED TO PROVIDE ACCESS FOR JACKING AND WILL BE REPLACED AFTER JACKING AND STABILIZING IS COMPLETE AND APPROVED BY ARCHITECT, ENGINEER, AND OWNER.
8. PROVIDE PERMANENT SUPPORT FOR EXISTING FLOOR JOISTS, INCLUDING BLOCKING AND SHIMS, AS SPECIFIED IN DETAIL B ON SHEET S301 (TYPICAL JOIST SUPPORT DETAIL).
9. AFTER ALL PERMANENT SUPPORT IS INSTALLED AND LEVEL STABILIZATION IS COMPLETE, REMOVE SHORING / JACKING.

SHORING / JACKING LOADS

LINE	SECOND (DL/LL) - PLF	THIRD (DL/LL) - PLF	FOURTH (DL/LL) - PLF	FIFTH (DL/LL) - PLF	ROOF (DL/LL) - PLF	TOTAL (DL/LL) - PLF
LINE #1	90/90	90/90	90/90	90/90	68/68	428/428
LINE #2	175/175	175/175	175/175	175/175	131/131	831/831
LINE #3	175/175	175/175	175/175	175/175	131/131	831/831

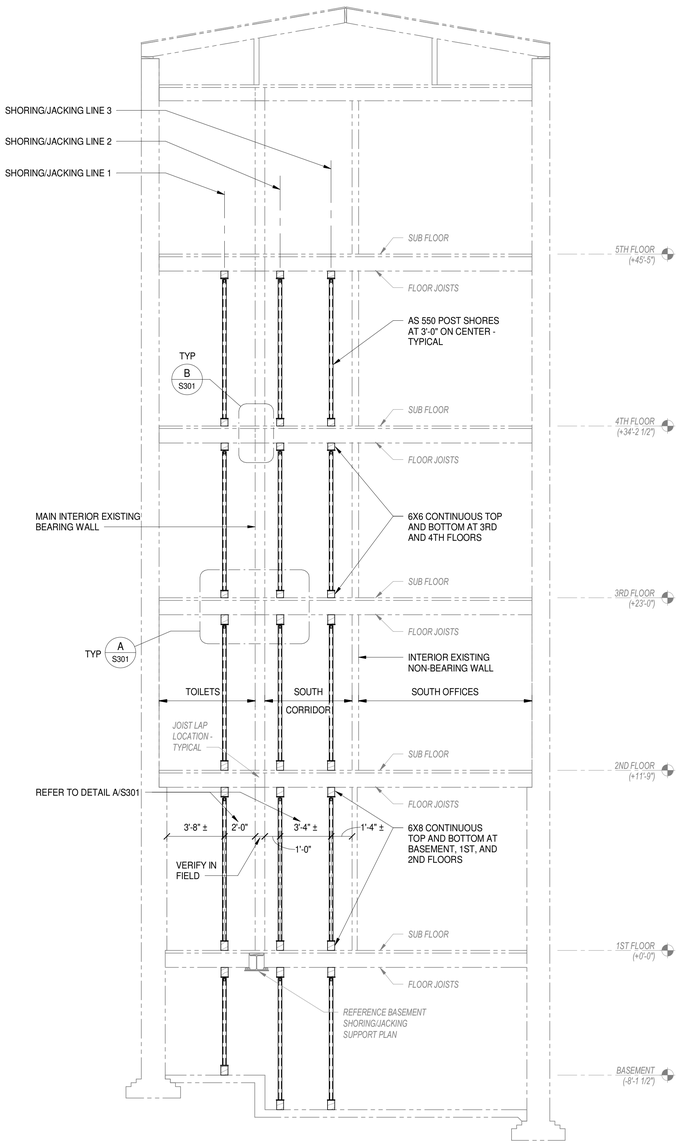
SHORING / JACKING LOADS NOTES:

1. LOADS AT FLOORS ARE BASED ON 20 PSF DEAD LOAD AND A CONSTRUCTION LIVE LOAD OF 20 PSF.
2. LOADS AT ROOF ARE BASED ON 15 PSF DEAD LOAD AND A LIVE LOAD OF 15 PSF.



TYPICAL SHORING/JACKING SECTION AT NORTH CORRIDOR

SECTION 1 — S100 | S201
1/4" = 1'-0"



TYPICAL SHORING/JACKING SECTION AT SOUTH CORRIDOR

SECTION 2 — S100 | S201
1/4" = 1'-0"

SCALE: 1/4" = 1'-0"
0" 2'-0" 4'-0" 8'-0"

TYPICAL SHORING/JACKING SECTIONS

S201

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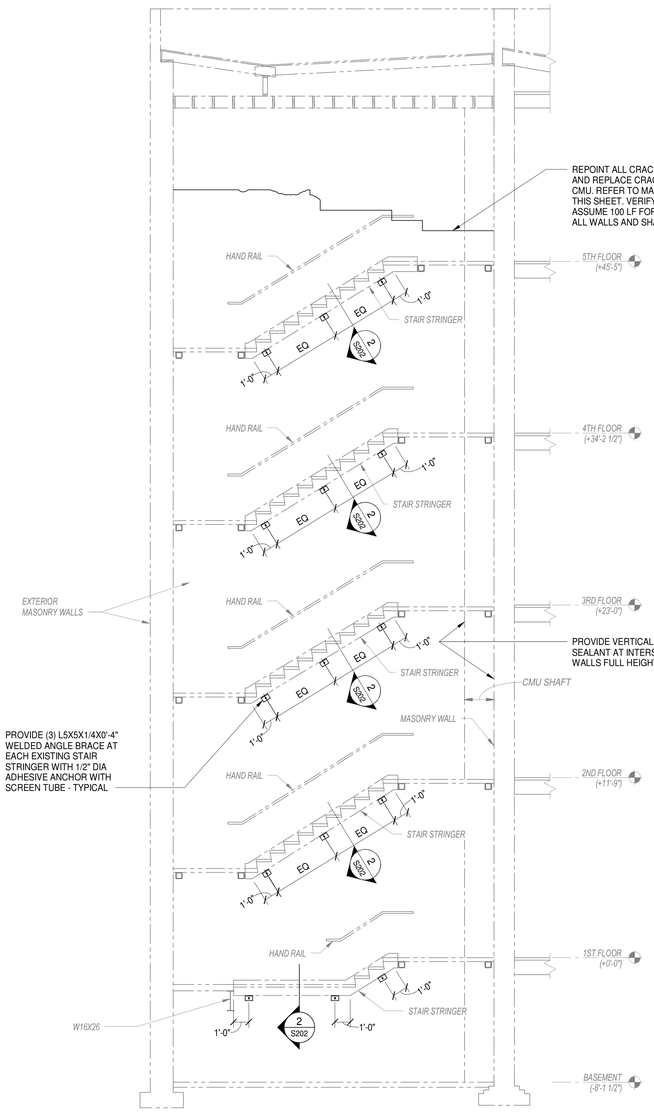
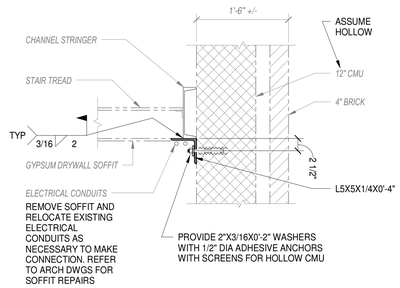


SECTION 1
1/4" = 1'-0"
S100 | S202



SECTION 2
1" = 1'-0"
S202 | S202

MASONRY REPAIR NOTES

1. ALL MASONRY REPAIRS SHALL BE MADE BY A MASONRY REPAIR SPECIALIST WITH EXPERIENCE IN SIMILAR REPAIR WORK.
2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING TO COMPLETE MASONRY REPAIRS. ALL SHORING SHALL BE IN PLACE PRIOR TO PERFORMING DEMOLITION AND REPAIRS.
3. REPAIR ALL VISIBLE CRACKS IN MORTAR JOINTS AS FOLLOWS:
   - A. RAKE OUT MORTAR FROM JOINTS TO DEPTHS EQUAL TO 2 1/2 TIMES THEIR WIDTHS BUT NOT LESS THAN 1/2 INCH NOR LESS THAN THAT REQUIRED TO EXPOSE SOUND, UNDAMAGED MORTAR. CUT OUT DAMAGED MORTAR BY HAND WITH A CHISEL AND MALLET.
   - B. REMOVE MORTAR FROM MASONRY SURFACES WITHIN RAKED-OUT JOINTS TO PROVIDE REVEALS WITH SQUARE BACKS AND TO EXPOSE MASONRY FOR CONTACT WITH POINTING MORTAR. BRUSH, VACUUM OR FLUSH JOINTS TO REMOVE DIRT AND LOOSE DEBRIS.
   - C. DO NOT SPALL EDGES OF MASONRY UNITS OR WIDEN JOINTS. REPLACE DAMAGED MASONRY JOINTS.
   - D. CLEAN MASONRY JOINT SURFACES WITH WATER TO REMOVE DUST AND MORTAR PARTICLES. TIME THE RINSING APPLICATION SO THAT AT THE TIME OF POINTING EXCESS WATER HAS EVAPORATED OR RUN OFF AND JOINT SURFACES ARE DAMP BUT FREE OF STANDING WATER.
   - E. PREHYDRATE MORTAR TO REDUCE EXCESSIVE SHRINKAGE. MIX ALL DRY INGREDIENTS THOROUGHLY. ADD ONLY ENOUGH CLEAN WATER TO THE DRY MIX TO PRODUCE A DAMP, UNWORKABLE CONSISTENCY WHICH WILL RETAIN ITS SHAPE WHEN FORMED INTO A BALL. LET THE MORTAR STAND IN THIS DAMPENED CONDITION FOR 1 TO 11/2 HRS THEN ADD WATER TO BRING IT TO A WORKABLE CONSISTENCY (SOMEWHAT DRIER THAN CONVENTIONAL MORTAR). USE MORTAR WITHIN 30 MINUTES OF FINAL MIXING. DO NOT RETEMPER OR USE PARTIALLY HARDENED MATERIAL.
   - F. APPLY THE FIRST LAYER OF POINTING MORTAR TO AREAS WHERE EXISTING MORTAR WAS REMOVED TO DEPTHS GREATER THAN SURROUNDING AREAS. APPLY IN LAYERS NOT GREATER THAN 3/8 INCH UNTIL A UNIFORM DEPTH IS FORMED. COMPACT EACH LAYER THOROUGHLY AND ALLOW IT TO BECOME THUMBPRINT HARD BEFORE APPLYING THE NEXT LAYER.
   - G. AFTER JOINTS HAVE BEEN FILLED TO A UNIFORM DEPTH, PLACE REMAINING POINTING MORTAR IN THREE LAYERS WITH EACH OF FIRST AND SECOND LAYERS FILLING APPROXIMATELY TWO FIFTHS OF JOINT DEPTH AND THIRD LAYER THE REMAINING ONE FIFTH. FULLY COMPACT EACH LAYER AND ALLOW TO BECOME THUMBPRINT HARD BEFORE APPLYING NEXT LAYER. TAKE CARE NOT TO SPREAD MORTAR OVER EDGES ONTO EXPOSED MASONRY SURFACES OR TO FEATHEREDGE MORTAR.
   - H. WHEN MORTAR IS THUMBPRINT HARD, TOOL JOINTS TO MATCH ORIGINAL APPEARANCE OF JOINTS. REMOVE EXCESS MORTAR FROM EDGE OF JOINT BY BRUSHING.
   - I. CURE MORTAR BY MAINTAINING IN A DAMP CONDITION FOR NOT LESS THAN 72 HOURS.
4. REMOVE ALL MASONRY UNITS (CMU) THAT ARE DAMAGED, SPALLED OR DETERIORATED AS FOLLOWS:
   - A. CUT OUT FULL UNITS BY HAND FROM JOINT TO JOINT AND IN A MANNER TO PERMIT REPLACEMENT WITH FULL SIZE UNITS WITHOUT DAMAGING SURROUNDING MASONRY. FOR EASE OF REMOVAL, THE UNITS TO BE REMOVED CAN BE BROKEN.
   - B. SUPPORT AND PROTECT REMAINING MASONRY SUPPORTED BY REMOVED UNITS.
   - C. REMOVE MORTAR, LOOSE PARTICLES AND DEBRIS FROM EXISTING MASONRY SURROUNDING EXISTING UNITS IN PREPARATION FOR REPLACEMENT. CLEAN WITH STIFF BRUSHES OR BY FLUSHING WITH WATER AND COMPRESSED AIR. DO NOT ALLOW DEBRIS TO FALL INTO THE CAVITY.
5. REPLACE DAMAGED MASONRY UNITS AS FOLLOWS:
   - A. SET REPLACEMENT UNITS IN A FULL BED OF MORTAR WITH BOTH HORIZONTAL AND VERTICAL JOINTS OF SAME WIDTH AS EXISTING UNITS.
   - B. POINT NEW MORTAR JOINTS TO COMPLY WITH REQUIREMENTS FOR REPOINTING EXISTING MASONRY AS NOTED IN NOTE 3 ABOVE.
   - C. WHEN MORTAR IS THUMBPRINT HARD, TOOL JOINT TO MATCH ORIGINAL PROFILE. REMOVE EXCESS MORTAR BY BRUSHING.
6. TOOTH NEW MASONRY INTO EXISTING WALL JAMB CONSTRUCTION AT ALL INFILL CONDITIONS AT EXISTING DOORS AND WINDOWS

SCALE: 1/4" = 1' - 0"
0' 2' - 0" 4' - 0" 8' - 0"

SCALE: 1" = 1' - 0"
0' 0' - 6" 1' - 0" 2' - 0"

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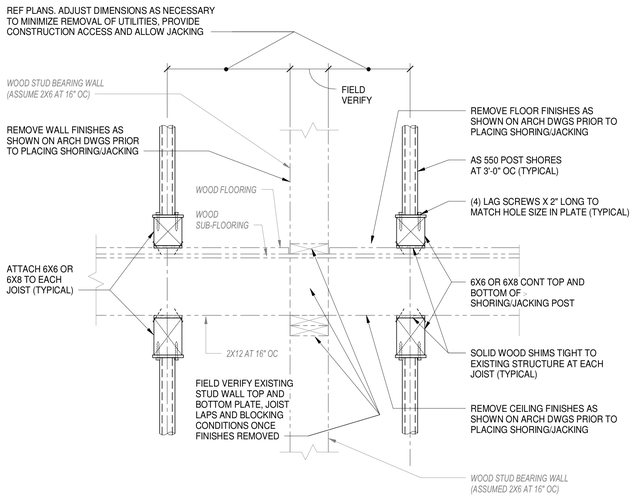
SOUTH STAIR WALL ELEVATION, SECTION AND MASONRY REPAIR NOTES

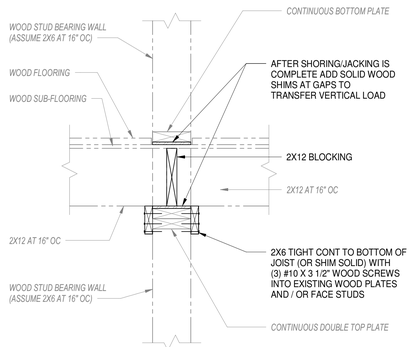
S202



TYPICAL SHORING/JACKING DETAIL

DETAIL A — 1" = 1'-0" — S201 | S301

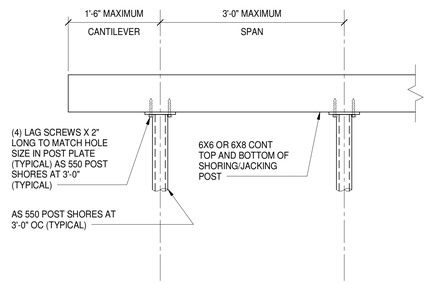
NOTES:
1. THIS DETAIL IS SIMILAR AT THE SOUTH CORRIDOR NON-BEARING WALL.



TYPICAL JOIST SUPPORT DETAIL

DETAIL B — 1" = 1'-0" — S201 | S301

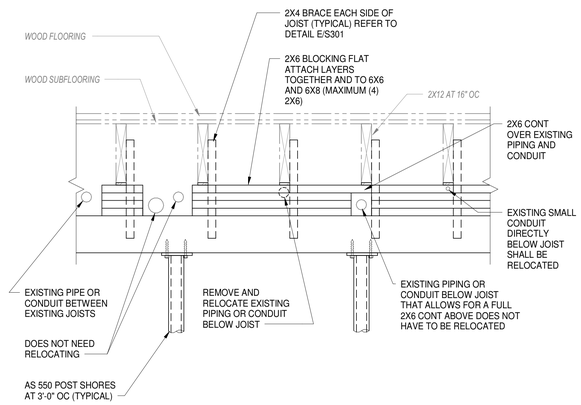
NOTES:
1. THIS DETAIL SHALL BE DONE AFTER SHORING/JACKING IS COMPLETE TO LEVEL FLOORS AND PRIOR TO REMOVING SHORING.
2. THIS DETAIL IS SIMILAR AT THE SOUTH CORRIDOR NON-BEARING WALL.



TYPICAL 6X6 OR 6X8 DETAIL

DETAIL C — 1" = 1'-0" — S301

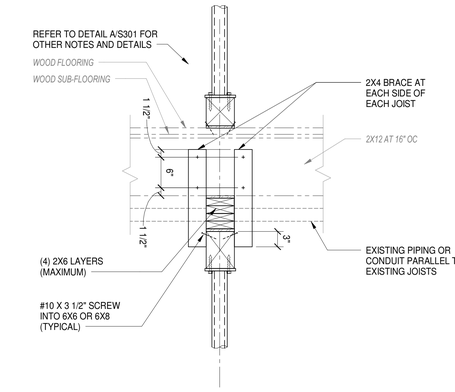
NOTES:
1. THIS DETAIL IS TO SHOW THAT 6X6 OR 6X8 CAN BE ERECTED IN SHORTER SECTION TO MISS EXISTING UTILITY INTERFERENCE.
2. SHORTER THAN 3'-0" SPAN CAN BE USED AT THE MIDDLE WITH (2) POSTS AND SHORTER CANTILEVER EACH END WHERE SHOWN ON PLANS.



TYPICAL SHORING/JACKING DETAIL AT PIPING AND CONDUIT

DETAIL D — 1" = 1'-0" — S301

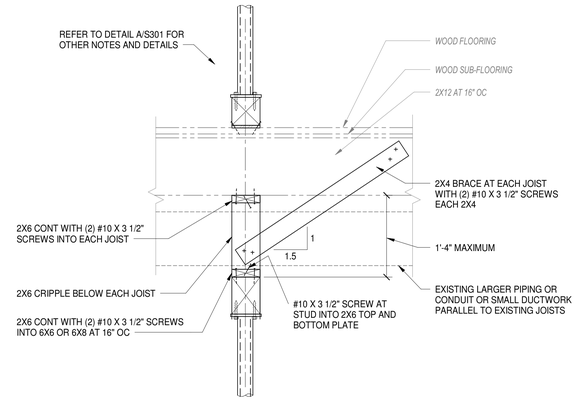
NOTES:
1. THIS DETAIL IS WHERE EXISTING PIPING AND CONDUIT RUNS PARALLEL TO EXISTING JOIST AND IS INTENDED TO REDUCE PIPING AND CONDUIT REMOVAL TO ERECT SHORING/JACKING.



TYPICAL SHORING/JACKING LINE BRACING DETAIL

DETAIL E — 1" = 1'-0" — S301

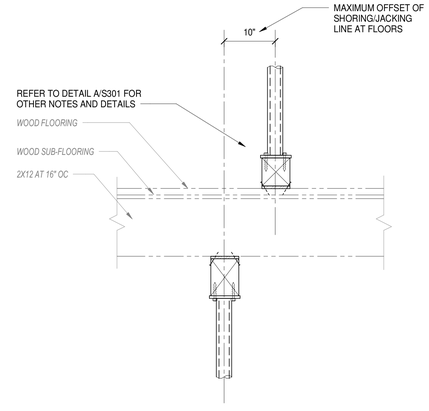
NOTES:
1. THIS DETAIL IS REQUIRED WITH DETAIL D/S301 TO PROVIDE LATERAL BRACING TO THE TOP OF THE SHORING/JACKING LINE.



TYPICAL SHORING/JACKING LINE AT LARGER UTILITIES

DETAIL F — 1" = 1'-0" — S301

NOTES:
1. THIS DETAIL IS WHERE EXISTING LARGER PIPING AND SMALL DUCTS RUN PARALLEL TO EXISTING JOISTS AND PROVIDES SPACE ABOVE LOWERED TOP OF SHORING/JACKING



TYPICAL SHORING/JACKING LINE OFFSET DETAIL

DETAIL G — 1" = 1'-0" — S301

NOTES:
1. THIS DETAIL IS TO SHOW WHERE SHORING/JACKING LINES CAN BE OFFSET AT FLOORS TO HELP MINIMIZE REMOVAL OF UTILITIES

SCALE: 1" = 1'-0"
0" 0'-6" 1'-0" 2'-0"

TYPICAL SHORING/JACKING DETAILS

S301

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PC: 236-B2236-038

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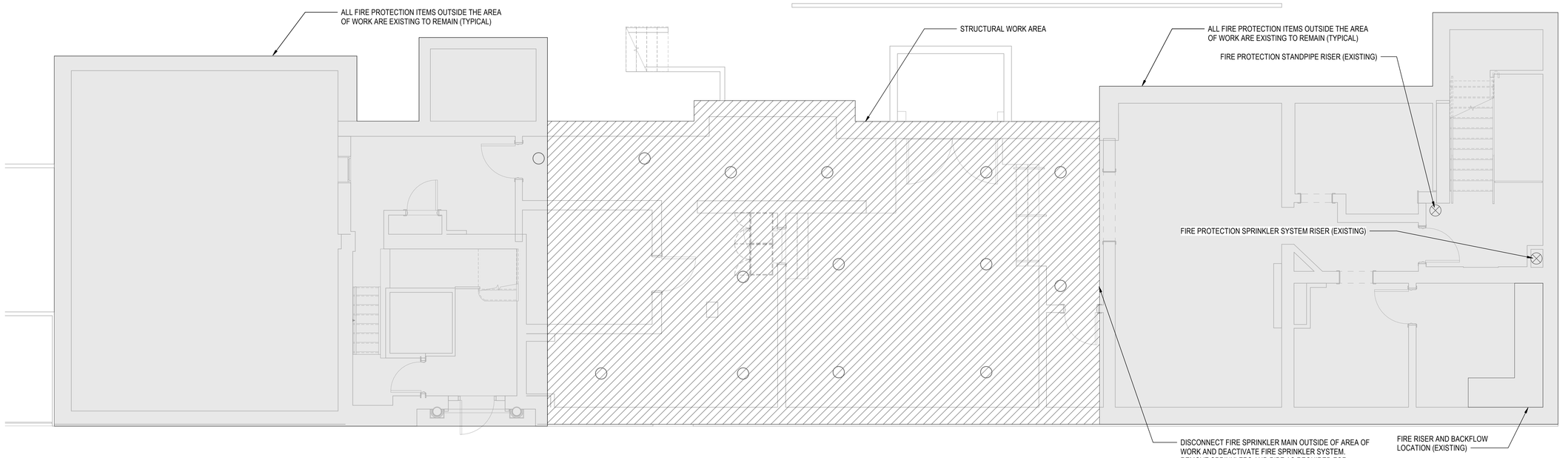
FIRE PROTECTION LEGEND

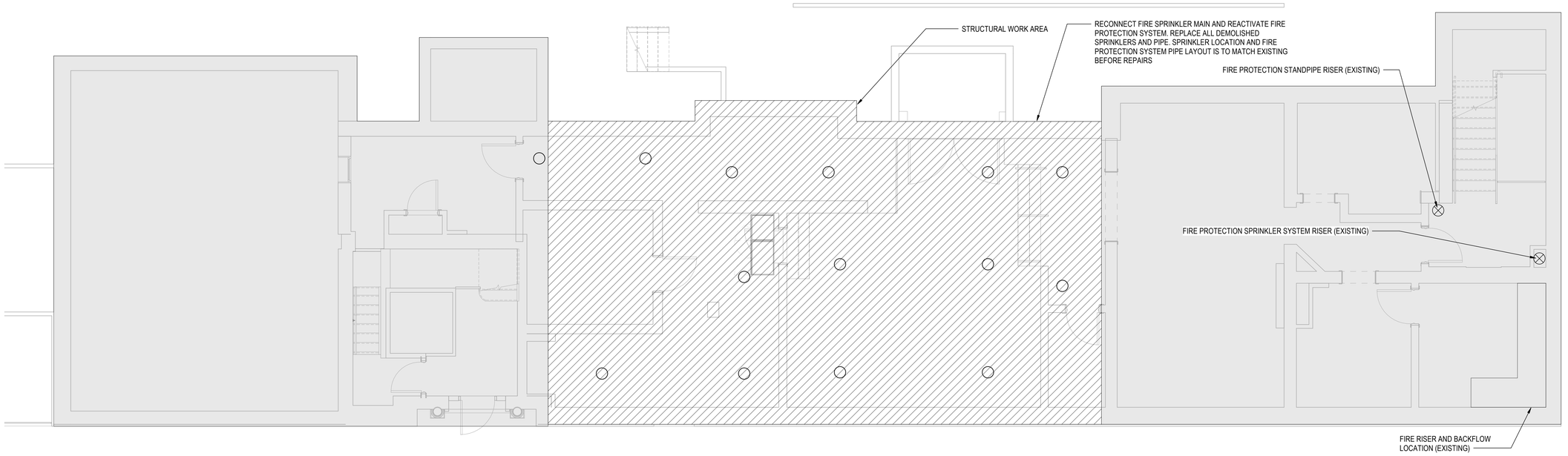
- PENDENT SPRINKLER
- UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER

FIRE PROTECTION NOTES

1. THE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATICAL IN NATURE. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING FIRE PROTECTION SYSTEM EQUIPMENT.
2. THE FIRE PROTECTION SYSTEM MUST BE HYDROSTATICALLY TESTED AT SYSTEM WORKING PRESSURE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 AT THE COMPLETION OF THE PROJECT. THE STATE FIRE MARSHALL'S OFFICE SHALL WITNESS THE TEST AND PROVIDE WRITTEN VERIFICATION OF ACCEPTANCE.



2 FP101 FIRE PROTECTION BASEMENT DEMOLITION PLAN
1/4" = 1'-0"



1 FP101 FIRE PROTECTION BASEMENT FLOOR PLAN
1/4" = 1'-0"

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FIRE PROTECTION BASEMENT FLOOR PLANS

FP101

FIRE PROTECTION LEGEND

- PENDENT SPRINKLER
- UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER

FIRE PROTECTION NOTES

1. THE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATICAL IN NATURE. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING FIRE PROTECTION SYSTEM EQUIPMENT.
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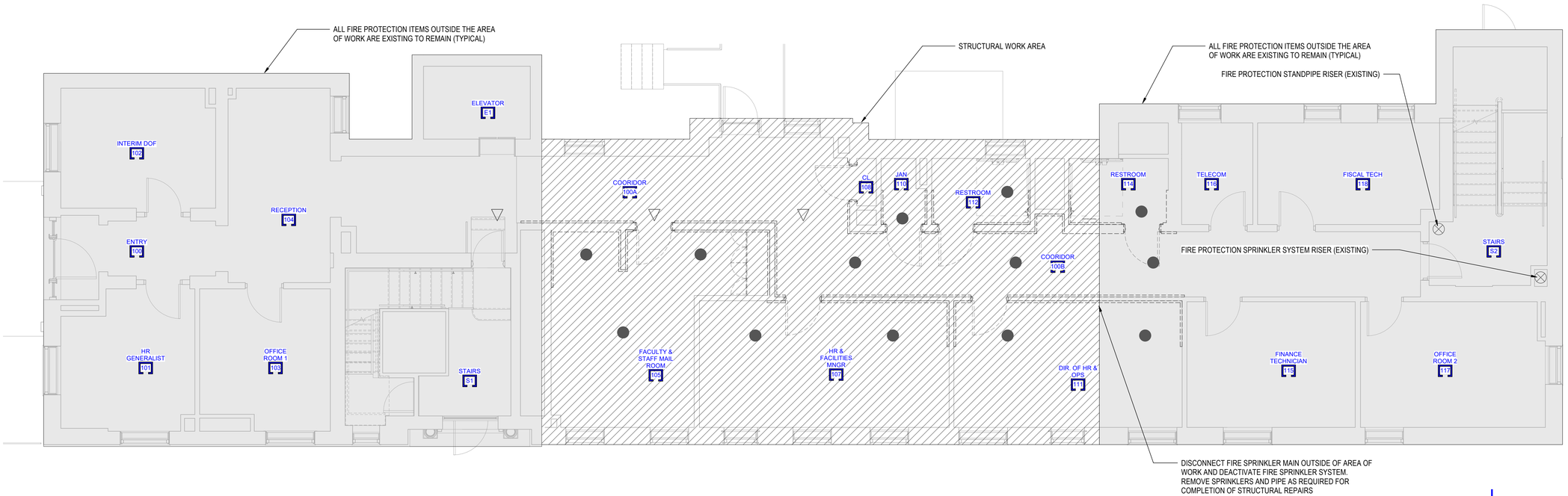
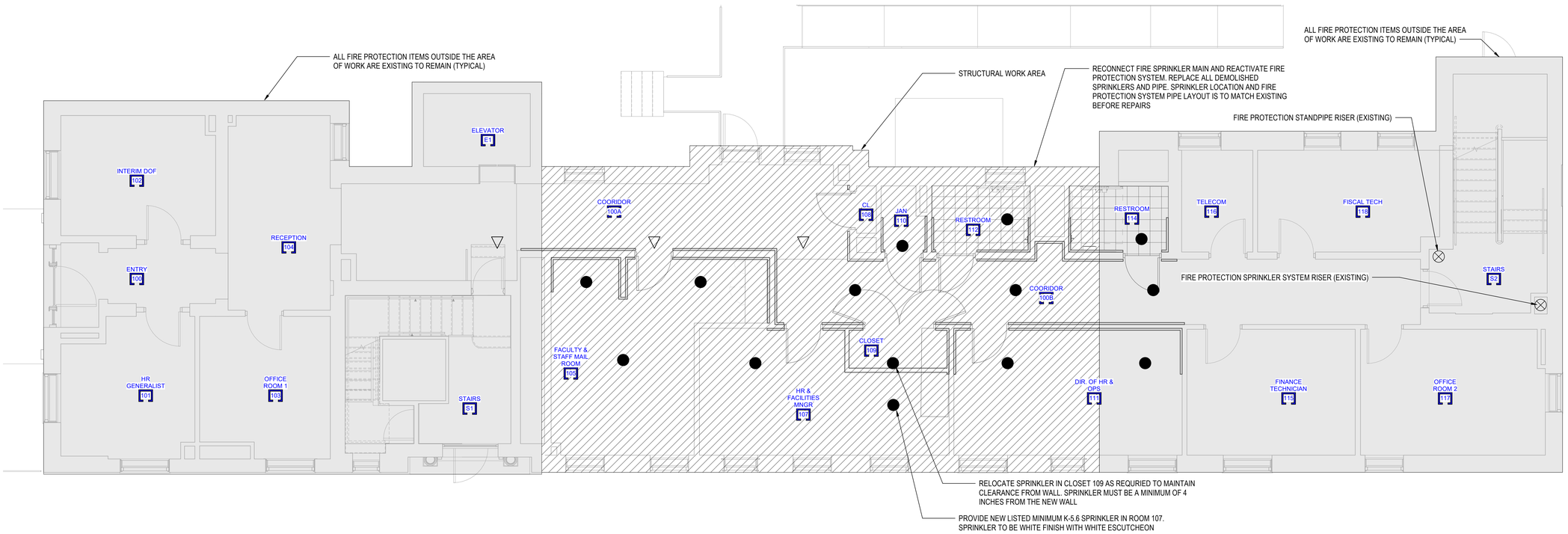


2 FP102 FIRE PROTECTION 1ST FLOOR DEMOLITION PLAN
1/4" = 1'-0"



1 FP102 FIRE PROTECTION 1ST FLOOR PLAN
1/4" = 1'-0"

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FIRE PROTECTION 1ST FLOOR PLAN

FP102

FIRE PROTECTION LEGEND

- PENDENT SPRINKLER
- UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER

FIRE PROTECTION NOTES

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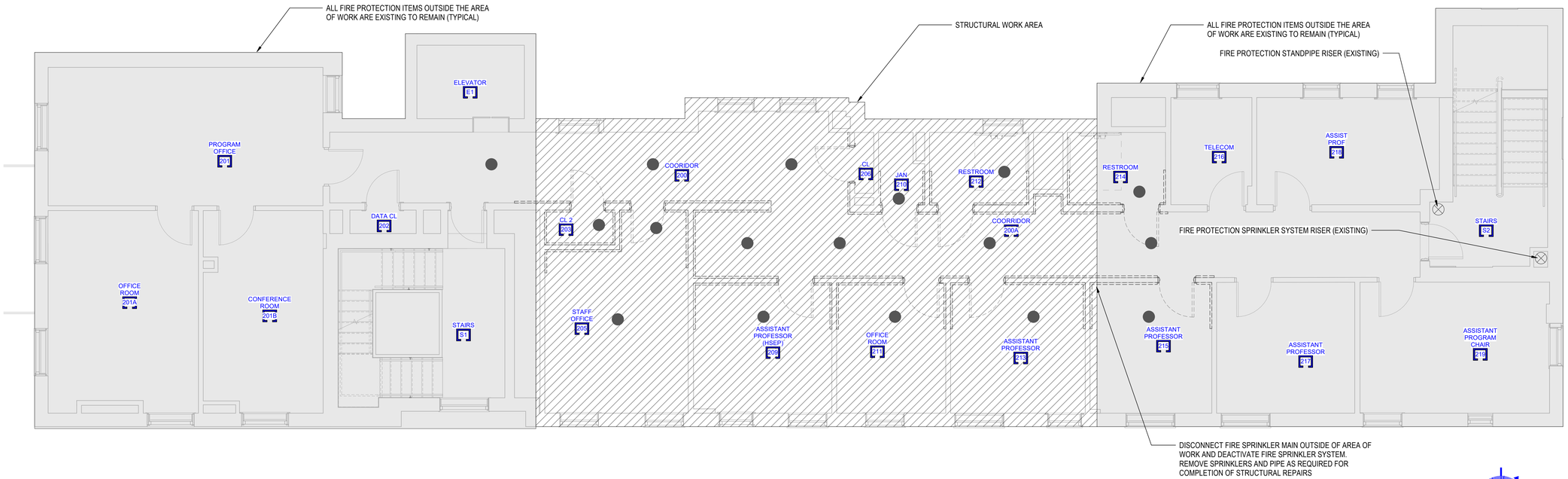
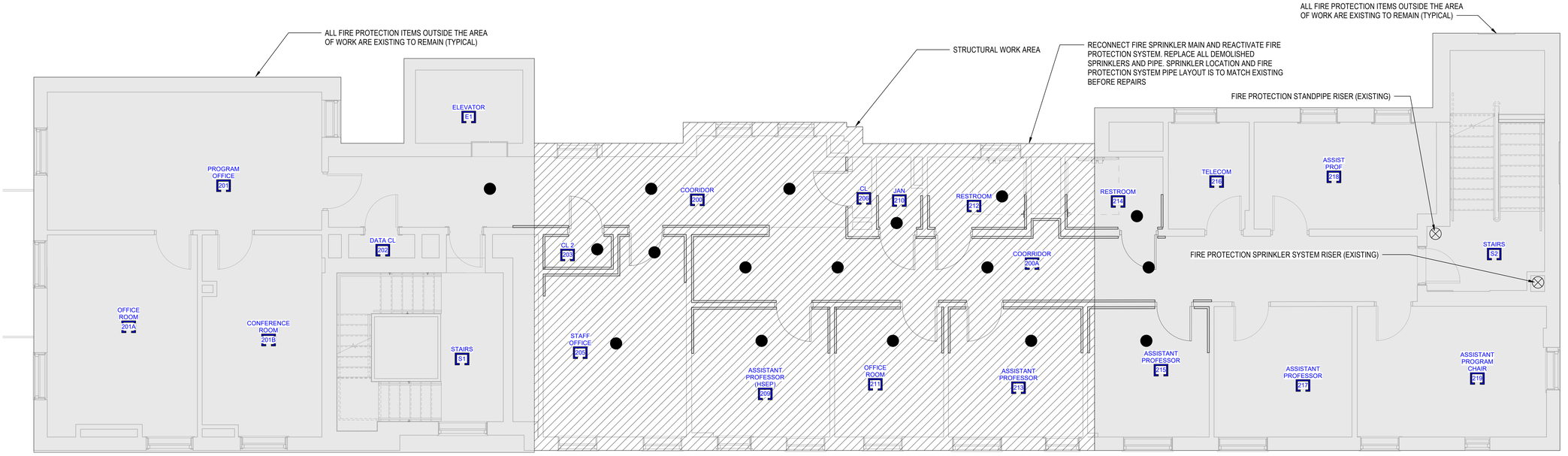


2 FP103 FIRE PROTECTION 2ND FLOOR DEMOLITION PLAN
1/4" = 1'-0"



1 FP103 FIRE PROTECTION 2ND FLOOR PLAN
1/4" = 1'-0"

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FIRE PROTECTION 2ND FLOOR PLAN

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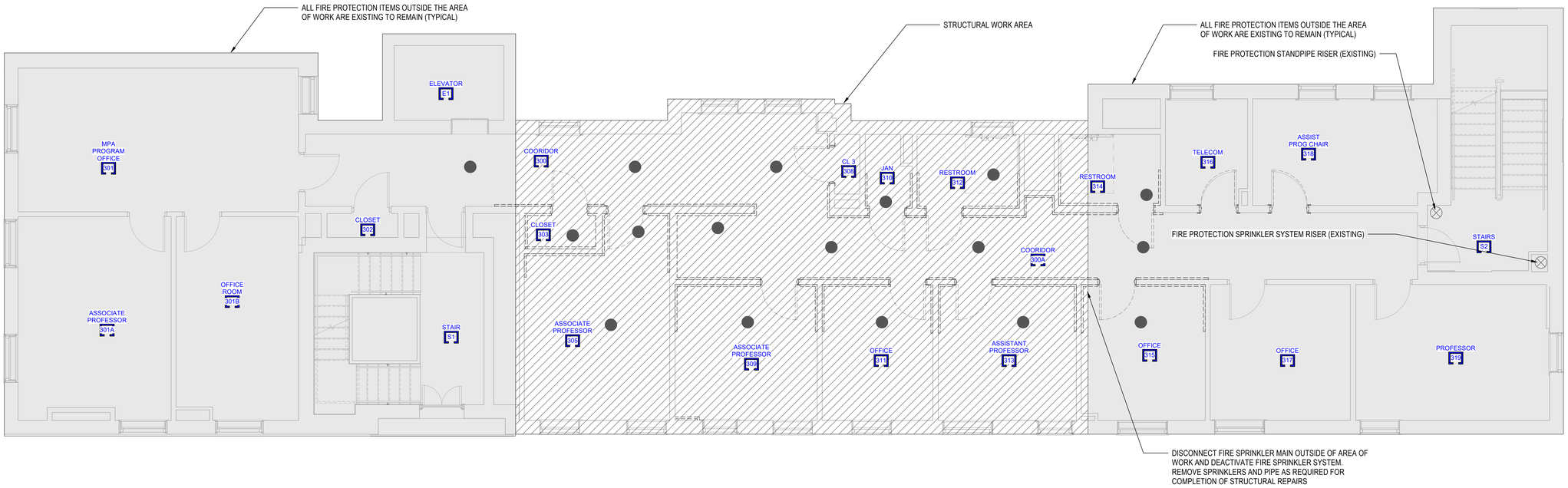
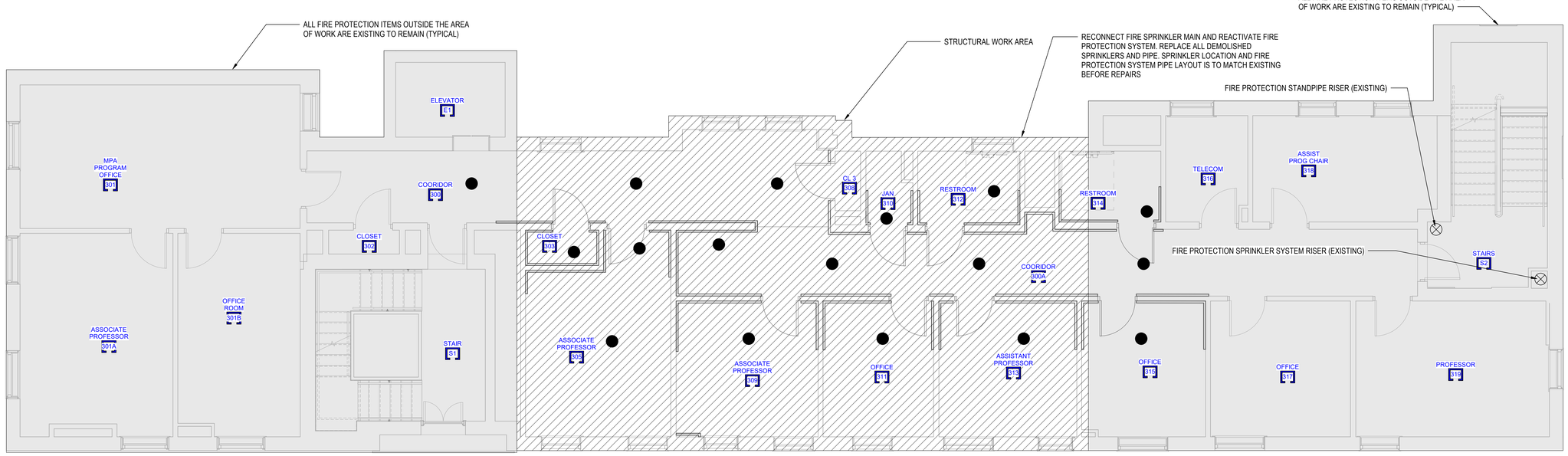


2 FIRE PROTECTION 3RD FLOOR DEMOLITION PLAN
FP104 1/4" = 1'-0"



1 FIRE PROTECTION 3RD FLOOR PLAN
FP104 1/4" = 1'-0"

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FIRE PROTECTION 3RD FLOOR PLAN

FP104

FIRE PROTECTION LEGEND

- PENDENT SPRINKLER
- UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER

FIRE PROTECTION NOTES

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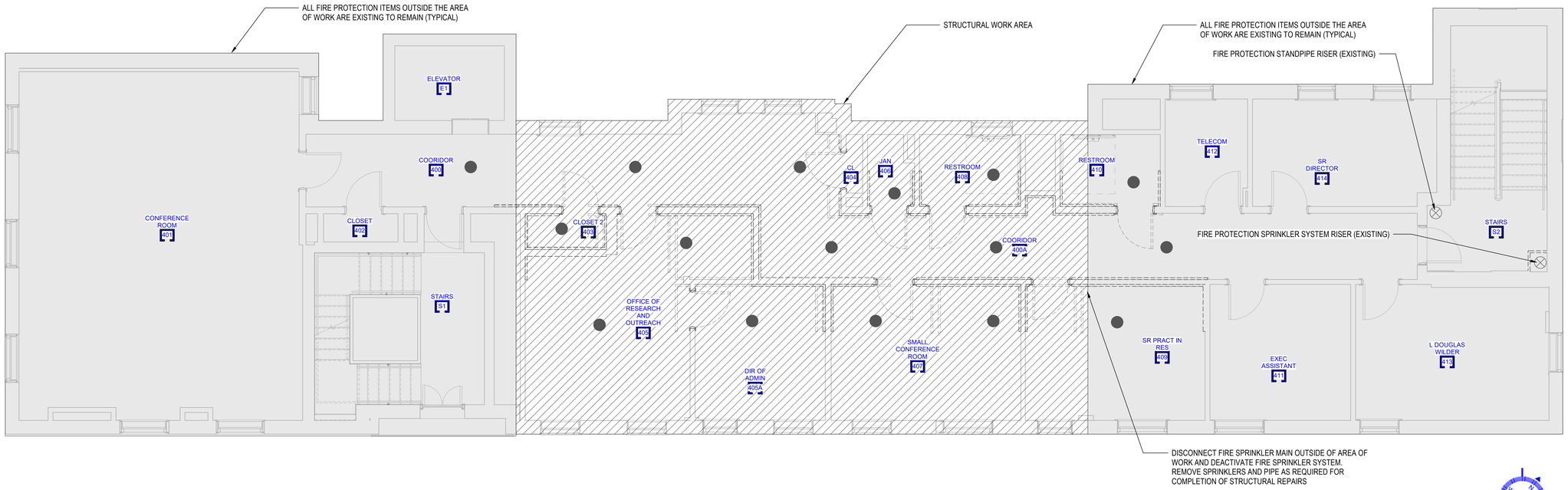
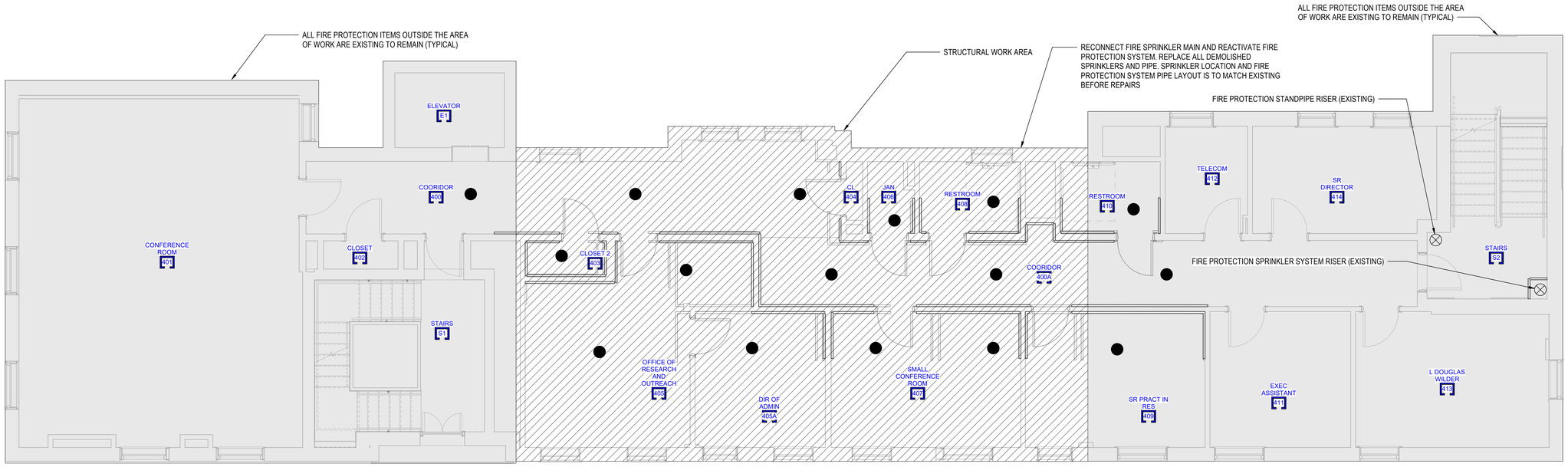


2 FP105 FIRE PROTECTION 4TH FLOOR DEMOLITION PLAN
1/4" = 1'-0"



1 FP105 FIRE PROTECTION 4TH FLOOR PLAN
1/4" = 1'-0"

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FIRE PROTECTION 4TH FLOOR PLAN

FP105

FIRE PROTECTION LEGEND

- PENDENT SPRINKLER
- UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER

FIRE PROTECTION NOTES

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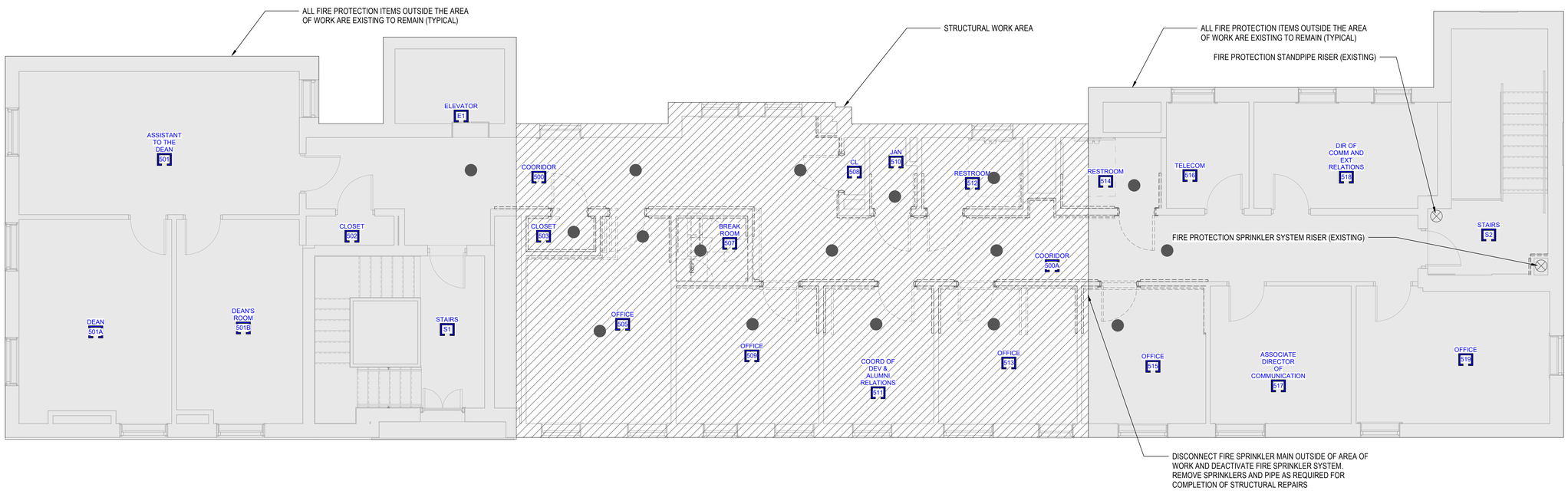
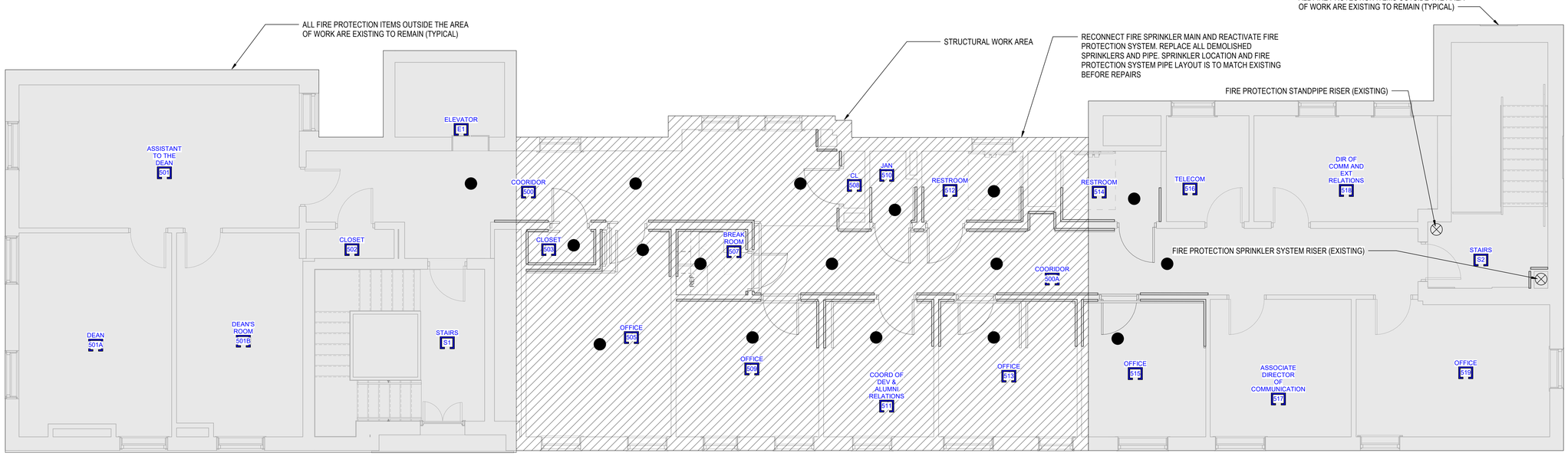


2 FIRE PROTECTION 5TH FLOOR DEMOLITION PLAN
FP106 1/4" = 1'-0"



1 FIRE PROTECTION 5TH FLOOR PLAN
FP106 1/4" = 1'-0"

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FIRE PROTECTION 5TH FLOOR PLAN

FP106

LEGEND - RATED WALLS

WALL & CEILING BARRIERS

- NON-RATED PARTITION
- NON-RATED SMOKE RESISTIVE PARTITION
- 1 HR FIRE BARRIER
- 1 HR SMOKE COMPARTMENT BARRIER
- 2 HR FIRE BARRIER
- 2 HR SMOKE COMPARTMENT BARRIER
- 3 HR FIRE BARRIER
- 3 HR SMOKE COMPARTMENT BARRIER

(FOR REFERENCE ONLY. SEE ARCH DRAWINGS FOR BARRIER DETAILS)

LEGEND - MECHANICAL SYMBOLS

- DUCT SECTION - RISE / DROP SUPPLY MPS
- DUCT SECTION - RISE / DROP SUPPLY LPS
- DUCT SECTION - RISE / DROP SUPPLY HPS
- DUCT SECTION - RISE / DROP OUTSIDE AIR
- DUCT SECTION - RISE / DROP MAKEUP AIR
- DUCT SECTION - RISE / DROP RETURN
- DUCT SECTION - RISE / DROP TRANSFER
- DUCT SECTION - RISE / DROP EXHAUST
- DUCT SECTION - RISE / DROP RELIEF

GENERAL NOTES - MECHANICAL

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
4. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS PRIOR TO FABRICATION.
5. WORK SHALL BE ACCURATELY LAID OUT WITH REFERENCE TO THE ARCHITECTURAL DRAWINGS AND IN COOPERATION WITH OTHER TRADES. WHICH SHALL AFFORD MAXIMUM ACCESSIBILITY FOR OPERATION, MAINTENANCE AND HEADROOM. FAILURE TO COORDINATE WORK WITH OTHER TRADES SHALL NOT BE CONSIDERED AS A BASIS FOR EXTRA COST CHANGES.
6. WHERE PLENUMS ARE USED FOR SUPPLY, RETURN, EXHAUST, RELIEF OR VENTILATION SYSTEMS, MATERIALS WITHIN THE PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
7. DIMENSIONS SHOWN ON DRAWINGS FOR DUCTWORK ARE INSIDE CLEAR.
8. ALL DUCTWORK, INCLUDING FIRE DAMPERS, SHALL BE SEALED AND TESTED FOR LEAKS PRIOR TO COVERING WORK.
9. PATCH ALL CUTTING OR DRILLING OF FINISHED WALLS, CEILINGS AND FLOORS.
10. DIFFUSER AND GRILLE LOCATIONS TO BE COORDINATED WITH ARCHITECTURAL CEILING PLAN. ANY CEILING MOUNTED DIFFUSERS OR GRILLES WHICH DO NOT MATCH CEILING TILE SIZES ARE TO BE MOUNTED IN CENTER OF TILE.
11. CONTRACTOR SHALL INSTALL ANY BALANCING DEVICE NECESSARY TO ACHIEVE PROPER ADJUSTING AND BALANCING OF MECHANICAL SYSTEMS.
12. RUNOUTS TO DIFFUSERS / GRILLES SHALL BE THE SAME SIZE AS THE DIFFUSER / GRILLE NECK SIZE UNLESS OTHERWISE NOTED.
13. REFER TO SPECIFICATION SECTION 230800 - HVAC SYSTEMS COMMISSIONING FOR PROJECT COMMISSIONING SCOPE.

GENERAL NOTES - DEMOLITION

1. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
2. PATCH ALL CUTTING OR DRILLING OF FINISHED WALLS, CEILINGS AND FLOORS.
3. UNLESS SPECIFICALLY NOTED, REMOVE ALL HVAC SYSTEMS IN THEIR ENTIRETY. THIS INCLUDES BUT IS NOT LIMITED TO EQUIPMENT, THERMOSTATS, TERMINAL UNITS, DUCTWORK, PIPING, AIR DEVICES, AND ALL ASSOCIATED COMPONENTS AND SUPPORTS. PATCH AND REPAIR ALL AREAS THAT ARE TO REMAIN WHERE ITEMS WERE ATTACHED OR SUPPORTED.
4. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK IN ALL LOCATIONS WHERE MECHANICAL COMPONENTS ARE TO REMAIN.
5. CONTRACTOR TO REMOVE ANY MECHANICAL COMPONENTS WITHIN WALLS INDICATED TO BE DEMOLISHED ON ARCHITECTURAL DEMOLITION PLANS.
6. PROTECT ALL EQUIPMENT TO REMAIN FROM DAMAGE DURING DEMOLITION. PROVIDE TEMPORARY COVERS AND CAP ENDS OF ALL PIPING AND DUCTWORK AT COMPLETION OF PARTIAL DEMOLITION.
7. COORDINATE WITH ELECTRICAL DEMOLITION BEFORE REMOVING DUCTWORK CONTAINING SMOKE DETECTORS OR EQUIPMENT, DEVICES, AND SYSTEMS HAVING ELECTRICAL CONNECTIONS.

MECHANICAL ABBREVIATIONS

Abbrev	Definition
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFMS	AIRFLOW MEASURING STATION
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
BDD	(COUNTERBALANCED) BACKDRAFT DAMPER
BFW	BOILER FEEDWATER
CD	CONDENSATE DRAIN
CFM	CUBIC FEET (AIR) PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CVD	(REMOTE) CABLE-CONTROLLED VOLUME DAMPER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DSD	DUCT SMOKE DETECTOR
EX	EXISTING
EXH	EXHAUST (AIR SYSTEM)
FD	FIRE DAMPER
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HPS	HIGH PRESSURE STEAM / HIGH PRESSURE SUPPLY (AIR SYSTEM)
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING
HWR	(HEATING) HOT WATER RETURN
HWS	(HEATING) HOT WATER SUPPLY
LPS	LOW PRESSURE STEAM / LOW PRESSURE SUPPLY (AIR SYSTEM)
MPS	MEDIUM PRESSURE STEAM / MEDIUM PRESSURE SUPPLY (AIR SYSTEM)
NA or N/A	NOT APPLICABLE
OA	OUTSIDE AIR (SYSTEM)
PCR	PUMPED CONDENSATE RETURN
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR (SYSTEM)
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RV	RELIEF VALVE
SA	SUPPLY AIR (SYSTEM)
SD	SMOKE DAMPER
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
TYP.	TYPICAL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE

MECHANICAL SCOPE SUMMARY

THE BUILDING 2-PIPE DUAL TEMPERATURE SYSTEM WILL BE CONVERTED TO A 4-PIPE HOT AND CHILLED WATER SYSTEM. THE EXISTING FAN COIL UNITS WILL BE REPLACED TO ACCOMMODATE THE 4-PIPE SYSTEM. THE EXISTING BOILER AND CHILLER WILL REMAIN. THE EXISTING PIPING WILL BE USED TO CONVEY HEATING HOT WATER. NEW CHILLED WATER PIPING WILL BE RUN VERTICALLY THROUGH THE BUILDING IN TWO SETS OF PIPE RISERS. BRANCH PIPING FROM THE RISERS WILL FEED THE NEW FAN COILS FROM UNDERNEATH EACH FLOOR.

ALL OF THE CONDENSATE DRAINAGE PIPING IN THE BUILDING WILL HAVE THE EXISTING INSULATION REMOVED AND REPLACED WITH NEW. A PORTION OF THE HEATING HOT WATER PIPING INSULATION IN THE BASEMENT WILL BE REMOVED AND REPLACED WITH NEW.

STRUCTURAL REINFORCING OF THE EXISTING BUILDING WILL ALSO OCCUR AS PART OF THIS PROJECT. THE STRUCTURAL JACKING OF THE BUILDING WILL AFFECT THE EXISTING PIPE RISERS. THE EXISTING PIPING SYSTEM SHALL BE COMPLETELY DRAINED AND THE PIPE RISERS SHALL BE CUT WHERE THEY PENETRATE THROUGH THE FIRST FLOOR AND THROUGH THE FOURTH FLOOR. AFTER THE JACKING IS COMPLETE, THE PIPES SHALL BE RECONNECTED WITH FLEX CONNECTIONS. THE NEW CHILLED WATER PIPING WILL BE INSTALLED AFTER STRUCTURAL JACKING IS FINISHED. TEMPORARY HEATING OF THE BUILDING WILL BE REQUIRED DURING THE STRUCTURAL REPAIR PORTION OF THE PROJECT.

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS, INCLUDING, BUT NOT LIMITED TO:

- 2022 CONSTRUCTION & PROFESSIONAL SERVICES MANUAL (REVISION 0; 8/1/2022)
- 2018 VIRGINIA UNIFORM STATEWIDE BUILDING CODE
- 2018 VIRGINIA CONSTRUCTION CODE
- 2018 VIRGINIA EXISTING BUILDING CODE
- 2018 VIRGINIA MECHANICAL CODE
- 2018 VIRGINIA FUEL GAS CODE
- 2018 VIRGINIA ENERGY CONSERVATION CODE
  - IN ACCORD WITH THE VIRGINIA ENERGY CONSERVATION CODE (VECC), THE BUILDING SHALL COMPLY WITH VECC SECTIONS C402 THROUGH C405 AND C408.
  - SECTION C406 DOES NOT APPLY AS PROJECT IS A RENOVATION OF AN EXISTING BUILDING.
- 2016 ASHRAE 90.1
- 2016 ASHRAE 62.1
- LATEST SMACNA STANDARDS
- ALL NEW EQUIPMENT MEETS OR EXCEEDS ENERGY AND EFFICIENCY STANDARDS.

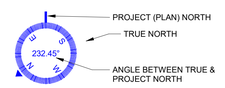
MECHANICAL SHEET LIST

SHEET NUMBER	NAME
M001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
M002	SCHEDULES
M102	FLOW DIAGRAMS
M200	BASEMENT FLOOR PIPING- DEMOLITION PLAN
M201	1ST FLOOR PIPING - DEMOLITION PLAN
M202	2ND FLOOR PIPING - DEMOLITION PLAN
M203	3RD FLOOR PIPING - DEMOLITION PLAN
M204	4TH FLOOR PIPING - DEMOLITION PLAN
M205	5TH FLOOR PIPING - DEMOLITION PLAN
M210	BASEMENT FLOOR PIPING - NEW WORK PLAN
M211	1ST FLOOR PIPING - NEW WORK PLAN
M212	2ND FLOOR PIPING - NEW WORK PLAN
M213	3RD FLOOR PIPING - NEW WORK PLAN
M214	4TH FLOOR PIPING - NEW WORK PLAN
M215	5TH FLOOR PIPING - NEW WORK PLAN
M300	MECHANICAL ROOM 3D VIEW
M301	SECTIONS
M401	DETAILS
M402	DETAILS

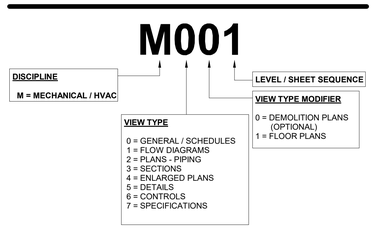
GRAPHIC SCALES

0' 4' 8' 12' 16' 20' 24'
1/8" = 1'-0"

0' 2' 4' 6' 8' 10' 12'
1/4" = 1'-0"



SHEET NUMBERING



LEGEND - MECHANICAL SYMBOLS

- PHASE WORK - EXISTING DUCTWORK, PIPING OR EQUIPMENT TO REMAIN. (THIN, LIGHT)
- PHASE WORK - EXISTING DUCTWORK, PIPING OR EQUIPMENT MARKED FOR DEMOLITION. (DASHED LINE TYPE)
- PHASE WORK - NEW DUCTWORK, PIPING OR EQUIPMENT.
- PHASE WORK - TEMPORARY DUCTWORK, PIPING OR EQUIPMENT.
- SENSOR, DUCT SMOKE DETECTOR
- SENSOR, AIR FLOW MEASURING
- ACCESS DOOR
- DAMPER, MOTORIZED
- DAMPER, VOLUME (BALANCING)
- DAMPER, BACK DRAFT
- DAMPER, FIRE - RECTANGULAR / ROUND
- DAMPER, SMOKE - RECTANGULAR / ROUND
- DAMPER, COMBINATION FIRE SMOKE - RECTANGULAR / ROUND
- TURNING VANES
- DUCT SECTION - RISE / DROP SUPPLY, MAKEUP AIR, OUTSIDE AIR
- DUCT SECTION - RISE / DROP RETURN, TRANSFER
- DUCT SECTION - RISE / DROP EXHAUST, RELIEF
- DUCTWORK WITH LINER
- DUCTWORK (SHOWING INSULATION)
- TRANSITION, FLAT ON TOP
- TRANSITION, FLAT ON BOTTOM
- SPLITTER DAMPER
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- SUPPLY DIFFUSER WITH BLANK-OFF
- 12x12 S-1 300 CFM — SUPPLY AIR DEVICE
- 12x12 R-1 300 CFM — RETURN AIR DEVICE
- 12x12 E-1 300 CFM — EXHAUST AIR DEVICE
- DOOR UNDERCUT
- GATE VALVE SCREWED OR SOLDERED
- GATE VALVE FLANGED
- HOSE BIBB DRAIN VALVE
- BALL VALVE
- GLOBE VALVE
- CHECK VALVE
- UNION
- BALANCING VALVE
- AUTOMATIC VALVE, 3-WAY, PNUEMATIC
- AUTOMATIC VALVE, 3-WAY, ELECTRIC/ELECTRONIC
- FLEXIBLE PIPE CONNECTOR
- AUTOMATIC VALVE, 2-WAY, PNUEMATIC
- AUTOMATIC VALVE, 2-WAY, ELECTRIC/ELECTRONIC
- RELIEF VALVE
- STRAINER
- BUTTERFLY VALVE
- WATER PRESSURE REDUCING VALVE
- STEAM PRESSURE REGULATING VALVE
- STEAM DRIP TRAP ASSEMBLY
- ELBOW, TURNING DOWN
- ELBOW, TURNING UP
- TEE OFF TOP
- TEE OFF BOTTOM
- FLOW CONTROL VALVE
- DIRECTION OF FLOW
- PITCH DOWN IN DIRECTION OF ARROW
- AAV MAV — AUTOMATIC / MANUAL AIR VENT (SEE DETAIL)
- CONCENTRICC / ECCENTRIC REDUCER
- PIPE GUIDE
- PIPE ANCHOR
- FLOW METER
- PIPE CAP
- DP — DIFFERENTIAL PRESSURE SWITCH
- C — CARBON DIOXIDE SENSOR (MOUNT 4'-0" A.F.F.)
- CO — CARBON MONOXIDE SENSOR (MOUNT 4'-0" A.F.F.)
- H — HUMIDITY SENSOR (MOUNT 4'-0" A.F.F.)
- TS — TEMPERATURE SENSOR (MOUNT 4'-0" A.F.F.)
- T — THERMOSTAT (MOUNT 4'-0" A.F.F.)
- H — HUMIDISTAT (MOUNT 4'-0" A.F.F.)
- POINT OF CONNECTION, NEW TO EXISTING
- REMOVE TO THIS POINT

Baskervill
VCU VIRGINIA COMMONWEALTH UNIVERSITY
DUNBAR
1025 BOULDERS PKWY, SUITE 310
RICHMOND, VIRGINIA 23225
(804) 323-0656
Project No.: 2107-17.WR
FISHER ENGINEERING

BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400

COMMONWEALTH OF VIRGINIA
ERIC M. HALEY
Lic. No. 048838
01/26/2024
PROFESSIONAL ENGINEER

PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

ISSUE
01/26/2024 - WORKING DRAWINGS 4

LEGEND, ABBREVIATIONS AND GENERAL NOTES

M001

SPACE VENTILATION SCHEDULE - 2018 VMC TABLE 403.3.1.1

SPACE IDENTITY			PEOPLE COUNT			CALCULATED OUTDOOR AIR			
NUMBER	NAME	OCCUPANCY CLASSIFICATION	AREA PER PERSON	SPACE AREA	PEOPLE	PER PERSON	BY AREA	MINIMUM OA	SCHEDULED OA
1ST FLOOR PLAN									
100	ENTRY	Corridor/Transition	108 ft²	83 ft²	0	0 CFM	0.06 CFM/SF	5 CFM	10 CFM
100A	COORIDOR	Corridor/Transition	108 ft²	314 ft²	1	0 CFM	0.06 CFM/SF	19 CFM	25 CFM
100B	COORIDOR	Corridor/Transition	108 ft²	316 ft²	1	0 CFM	0.06 CFM/SF	19 CFM	25 CFM
101	HR GENERALIST	Office - Enclosed	200 ft²	133 ft²	1	5 CFM	0.06 CFM/SF	11 CFM	25 CFM
102	INTERIM DOF	Office - Enclosed	200 ft²	142 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
103	OFFICE ROOM 1	Office - Open Plan	200 ft²	135 ft²	1	5 CFM	0.06 CFM/SF	11 CFM	25 CFM
104	RECEPTION	Office - Open Plan	200 ft²	155 ft²	1	5 CFM	0.06 CFM/SF	13 CFM	25 CFM
105	FACULTY & STAFF MAIL ROOM	Active Storage	359 ft²	245 ft²	1	0 CFM	0.12 CFM/SF	29 CFM	25 CFM
107	HR & FACILITIES MNGR	Office - Open Plan	200 ft²	205 ft²	1	5 CFM	0.06 CFM/SF	17 CFM	25 CFM
111	DIR. OF HR & OPS	Office - Open Plan	200 ft²	216 ft²	1	5 CFM	0.06 CFM/SF	18 CFM	25 CFM
112	RESTROOM	Corridor/Transition	108 ft²	48 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	25 CFM
114	RESTROOM	Corridor/Transition	108 ft²	48 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	25 CFM
115	FINANCE TECHNICIAN	Office - Enclosed	200 ft²	161 ft²	1	5 CFM	0.06 CFM/SF	14 CFM	25 CFM
116	TELECOM	Active Storage	359 ft²	55 ft²	0	0 CFM	0.12 CFM/SF	7 CFM	15 CFM
117	OFFICE ROOM 2	Office - Enclosed	200 ft²	175 ft²	1	5 CFM	0.06 CFM/SF	15 CFM	25 CFM
118	FISCAL TECH	Office - Enclosed	200 ft²	139 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
1ST FLOOR PLAN: 16								209 CFM	375 CFM
2ND FLOOR PLAN									
200	COORIDOR	Corridor/Transition	108 ft²	293 ft²	1	0 CFM	0.06 CFM/SF	18 CFM	25 CFM
200A	COORRIDOR	Corridor/Transition	108 ft²	359 ft²	2	0 CFM	0.06 CFM/SF	22 CFM	25 CFM
201	PROGRAM OFFICE	Office - Enclosed	200 ft²	286 ft²	1	5 CFM	0.06 CFM/SF	24 CFM	30 CFM
201A	OFFICE ROOM	Office - Enclosed	200 ft²	222 ft²	1	5 CFM	0.06 CFM/SF	19 CFM	30 CFM
201B	CONFERENCE ROOM	Conference Meeting/Multipurpose	20 ft²	177 ft²	1	5 CFM	0.06 CFM/SF	55 CFM	55 CFM
205	STAFF OFFICE	Office - Enclosed	200 ft²	193 ft²	1	5 CFM	0.06 CFM/SF	16 CFM	30 CFM
209	ASSISTANT PROFESSOR (HSEP)	Office - Enclosed	200 ft²	132 ft²	1	5 CFM	0.06 CFM/SF	11 CFM	30 CFM
211	OFFICE ROOM	Office - Enclosed	200 ft²	105 ft²	1	5 CFM	0.06 CFM/SF	9 CFM	30 CFM
212	RESTROOM	Office - Enclosed	200 ft²	52 ft²	0	5 CFM	0.06 CFM/SF	4 CFM	5 CFM
213	ASSISTANT PROFESSOR	Office - Enclosed	200 ft²	129 ft²	1	5 CFM	0.06 CFM/SF	11 CFM	30 CFM
214	RESTROOM	Corridor/Transition	108 ft²	52 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	5 CFM
215	ASSISTANT PROFESSOR	Office - Enclosed	200 ft²	117 ft²	1	5 CFM	0.06 CFM/SF	10 CFM	30 CFM
216	TELECOM	Office - Enclosed	200 ft²	65 ft²	0	5 CFM	0.06 CFM/SF	5 CFM	5 CFM
217	ASSISTANT PROFESSOR	Office - Enclosed	200 ft²	136 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	30 CFM
218	ASSIST PROF	Office - Enclosed	200 ft²	145 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	30 CFM
219	ASSISTANT PROGRAM CHAIR	Office - Enclosed	200 ft²	186 ft²	1	5 CFM	0.06 CFM/SF	16 CFM	30 CFM
2ND FLOOR PLAN: 16								247 CFM	420 CFM
3RD FLOOR PLAN									
300	COORIDOR	Corridor/Transition	108 ft²	293 ft²	1	0 CFM	0.06 CFM/SF	18 CFM	20 CFM
300A	COORIDOR	Corridor/Transition	108 ft²	348 ft²	1	0 CFM	0.06 CFM/SF	21 CFM	20 CFM
301	MPA PROGRAM OFFICE	Office - Enclosed	200 ft²	291 ft²	1	5 CFM	0.06 CFM/SF	25 CFM	25 CFM
301A	ASSOCIATE PROFESSOR	Office - Enclosed	200 ft²	219 ft²	1	5 CFM	0.06 CFM/SF	19 CFM	25 CFM
301B	OFFICE ROOM	Office - Enclosed	200 ft²	177 ft²	1	5 CFM	0.06 CFM/SF	15 CFM	25 CFM
305	ASSOCIATE PROFESSOR	Office - Enclosed	200 ft²	192 ft²	1	5 CFM	0.06 CFM/SF	16 CFM	25 CFM
309	ASSOCIATE PROFESSOR	Office - Enclosed	200 ft²	136 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
311	OFFICE	Office - Enclosed	200 ft²	106 ft²	1	5 CFM	0.06 CFM/SF	9 CFM	25 CFM
312	RESTROOM	Corridor/Transition	108 ft²	53 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	10 CFM
313	ASSISTANT PROFESSOR	Office - Enclosed	200 ft²	133 ft²	1	5 CFM	0.06 CFM/SF	11 CFM	25 CFM
314	RESTROOM	Corridor/Transition	108 ft²	50 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	10 CFM
315	OFFICE	Office - Enclosed	200 ft²	118 ft²	1	5 CFM	0.06 CFM/SF	10 CFM	25 CFM
316	TELECOM	Office - Enclosed	200 ft²	62 ft²	0	5 CFM	0.06 CFM/SF	5 CFM	5 CFM
317	OFFICE	Office - Enclosed	200 ft²	138 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
318	ASSIST PROG CHAIR	Office - Enclosed	200 ft²	140 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
319	PROFESSOR	Office - Enclosed	200 ft²	189 ft²	1	5 CFM	0.06 CFM/SF	16 CFM	25 CFM
3RD FLOOR PLAN: 16								206 CFM	340 CFM
4TH FLOOR PLAN									
400	COORIDOR	Corridor/Transition	108 ft²	297 ft²	0	0 CFM	0.06 CFM/SF	18 CFM	25 CFM
400A	COORIDOR	Corridor/Transition	108 ft²	308 ft²	0	0 CFM	0.06 CFM/SF	18 CFM	25 CFM
401	CONFERENCE ROOM	Conference Meeting/Multipurpose	20 ft²	702 ft²	3	5 CFM	0.06 CFM/SF	218 CFM	225 CFM
405	OFFICE OF RESEARCH AND OUTREACH	Office - Open Plan	200 ft²	207 ft²	1	5 CFM	0.06 CFM/SF	18 CFM	25 CFM
405A	DIR OF ADMIN	Office - Enclosed	200 ft²	123 ft²	1	5 CFM	0.06 CFM/SF	10 CFM	25 CFM
407	SMALL CONFERENCE ROOM	Conference Meeting/Multipurpose	20 ft²	180 ft²	1	5 CFM	0.06 CFM/SF	56 CFM	60 CFM
408	RESTROOM	Corridor/Transition	108 ft²	50 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	5 CFM
409	SR PRACT IN RES	Office - Enclosed	200 ft²	169 ft²	1	5 CFM	0.06 CFM/SF	14 CFM	25 CFM
410	RESTROOM	Corridor/Transition	108 ft²	50 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	5 CFM
411	EXEC ASSISTANT	Office - Enclosed	200 ft²	138 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
412	TELECOM	Office - Enclosed	200 ft²	63 ft²	0	5 CFM	0.06 CFM/SF	5 CFM	5 CFM
413	L DOUGLAS WILDER	Office - Enclosed	200 ft²	187 ft²	1	5 CFM	0.06 CFM/SF	16 CFM	25 CFM
414	SR DIRECTOR	Office - Enclosed	200 ft²	141 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
4TH FLOOR PLAN: 13								403 CFM	500 CFM
5TH FLOOR PLAN									
500	COORIDOR	Corridor/Transition	108 ft²	317 ft²	1	0 CFM	0.06 CFM/SF	19 CFM	25 CFM
500A	COORIDOR	Corridor/Transition	108 ft²	310 ft²	1	0 CFM	0.06 CFM/SF	19 CFM	25 CFM
501	ASSISTANT TO THE DEAN	Office - Enclosed	200 ft²	290 ft²	1	5 CFM	0.06 CFM/SF	25 CFM	25 CFM
501A	DEAN	Office - Enclosed	200 ft²	219 ft²	1	5 CFM	0.06 CFM/SF	19 CFM	25 CFM
501B	DEAN'S ROOM	Office - Enclosed	200 ft²	182 ft²	1	5 CFM	0.06 CFM/SF	15 CFM	25 CFM
505	OFFICE	Office - Enclosed	200 ft²	188 ft²	1	5 CFM	0.06 CFM/SF	16 CFM	25 CFM
507	BREAK ROOM	Lounge/Recreation	33 ft²	32 ft²	1	5 CFM	0.06 CFM/SF	7 CFM	25 CFM
509	OFFICE	Office - Enclosed	200 ft²	139 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
511	COORD OF DEV & ALUMNI RELATIONS	Office - Enclosed	200 ft²	104 ft²	1	5 CFM	0.06 CFM/SF	9 CFM	25 CFM
512	RESTROOM	Corridor/Transition	108 ft²	50 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	5 CFM
513	OFFICE	Office - Enclosed	200 ft²	131 ft²	1	5 CFM	0.06 CFM/SF	11 CFM	25 CFM
514	RESTROOM	Corridor/Transition	108 ft²	49 ft²	0	0 CFM	0.06 CFM/SF	3 CFM	5 CFM
515	OFFICE	Office - Enclosed	200 ft²	119 ft²	1	5 CFM	0.06 CFM/SF	10 CFM	25 CFM
516	TELECOM	Office - Enclosed	200 ft²	63 ft²	0	5 CFM	0.06 CFM/SF	5 CFM	5 CFM
517	ASSOCIATE DIRECTOR OF COMMUNICATION	Office - Enclosed	200 ft²	140 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
518	DIR OF COMM AND EXT RELATIONS	Office - Enclosed	200 ft²	139 ft²	1	5 CFM	0.06 CFM/SF	12 CFM	25 CFM
519	OFFICE	Office - Enclosed	200 ft²	188 ft²	1	5 CFM	0.06 CFM/SF	16 CFM	25 CFM
5TH FLOOR PLAN: 17								212 CFM	365 CFM
								1277 CFM	2000 CFM

AIR BALANCE SUMMARY

AIR HANDLING UNIT NUMBER	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	CONTINUOUS EXHAUST (CFM)
(E)-ERU/(E)-AHU/(E)-EF	2000 CFM	2000 CFM	1100 CFM

1. EXISTING UNITS TO BE RE-BALANCED TO AIRFLOW SHOWN ABOVE

MECHANICAL EQUIPMENT SCHEDULE - FIN TUBE HEATERS

DESIGNATION	SERVICE TO	HEATER LENGTH	CAPACITY PER FOOT	FINS PER FOOT	AVG WATER TEMP	MANUFACTURER	MODEL	REMARKS
FTH-1	RESTROOM	2' - 0"	680.0 Btu/h	50	170.0 °F	STERLING	LB-2	ALL

SPECIFICATION SECTIONS:
23 82 33 - CONVECTORS

1. PROVIDE TAMPER RESISTANT DAMPER
2. 3/4" COPPER CONNECTION, 3-3/4" X 2-3/4" FIN SIZE, BALANCE 3-WAY VALVE FLOW TO 1 GPM.
3. CONVECTOR PERFORMANCE BASED ON 180F EWT AND 65F EAT.

MECHANICAL EQUIPMENT SCHEDULE - AIR SEPARATORS

		SIZE			CONNECTION			
DESIGNATION	TYPE	DIAMETER	HEIGHT	VOLUME	SIZE	TYPE	FLOW RATE	REMARKS
AS-2	TANGENTIAL VORTEX	12 3/4"	31 7/16"	13 gal	4"	FLANGE	140.0 GPM	ALL

SPECIFICATION SECTION:
232100 - HYDRONIC PIPING AND PUMPS
232116 - HYDRONIC SPECIALTIES

REMARKS:
1. MAXIMUM WORKING PRESSURE: 125 PSIG (862 kPa)
2. MAXIMUM OPERATING TEMPERATURE: 350°F (177°C)

MECHANICAL EQUIPMENT SCHEDULE - EXPANSION TANK

		SIZE			CONNECTION		SELECTION BASED ON		
DESIGNATION	TYPE	DIAMETER	LENGTH	VOLUME	SIZE	TYPE	MANUFACTURER	MODEL	REMARKS
ET-2	DIAPHRAGM TANK	20"	38"	45 gal	1"	THREADED	Bell & Gossett	D-80	ALL

REMARKS:
1. PROVIDE A DRAIN WITH VALVE AT THE BOTTOM OF THE TANK.
2. PROVIDE A BELL & GOSSETT TANK PURGE VALVE AT THE TOP OF THE TANK.

MECHANICAL EQUIPMENT SCHEDULE - EXISTING PUMPS

IDENTITY DATA				PERFORMANCE DATA		CONNECTION SIZES		MOTOR DATA						
DESIGNATION	SERVICE TO	LOCATION	TYPE	FLOW	HEAD	SUCTION	DISCHARGE	POWER	RPM	VOLTS	PHASE	VFD	STARTER/DISCONNECT	REMARKS
(E)P-3	HOT WATER	MECHANICAL ROOM	BASE MOUNTED END SUCTION	144.0 GPM	55.00 ftH2O	3"	1 1/2"	3.00 hp	1750	208 V	3	X	X	1, 3
(E)P-4	HOT WATER	MECHANICAL ROOM	BASE MOUNTED END SUCTION	144.0 GPM	55.00 ftH2O	3"	1 1/2"	3.00 hp	1750	208 V	3	X	X	1, 3
(E)PHWP-1	HOT WATER	MECHANICAL ROOM	CENTRIFUGAL IN-LINE	64.0 GPM	7.00 ftH2O	1 1/2"	1 1/2"	0.25 hp	1750	208 V	1	-	-	2.
(E)SHWP-2	HOT WATER	MECHANICAL ROOM	CENTRIFUGAL IN-LINE	27.0 GPM	15.00 ftH2O	1 1/2"	1 1/2"	0.25 hp	1750	208 V	1	-	-	2.

SPECIFICATION SECTION:
232123 - HYDRONIC PUMPS

REMARKS:
1. PROVIDE WALL MOUNTED VFDS.
2. EXISTING TO REMAIN; SHOWN FOR REFERENCE ONLY.
3. EXISTING PUMP TO REMAIN; REBALANCE TO FLOWS SHOWN.

INSULATION SCHEDULE

APPLICATION	LOCATION	THICKNESS (IN.)	INSULATION TYPE	REMARKS
HYDRONIC PIPING SYSTEMS				
CHILLED WATER - (42°F AND ABOVE)	1" AND LESS	1"	CLOSED CELL ELASTOMERIC OR CELLULAR GLASS	1-1/2" THICK OUTDOORS OR IN UNCONDITIONED AREAS
CHILLED WATER - (42°F AND ABOVE)	BETWEEN 1-1/4" AND 2"	1-1/2"	CLOSED CELL ELASTOMERIC OR CELLULAR GLASS	2" THICK OUTDOORS OR IN UNCONDITIONED AREAS
CHILLED WATER - (42°F AND ABOVE)	LARGER THAN 2"	1-1/2"	CELLULAR GLASS	2" THICK OUTDOORS OR IN UNCONDITIONED AREAS
CHILLED WATER - COLD PIPE HANGER SUPPORT BLOCK		MATCH	FOAMGLASS	
COIL CONDENSATE	ALL SIZES	1/2"	CLOSED CELL ELASTOMERIC	REPLACE ALL EXISTING CONDENSATE INSULATION WITH NEW
HEATING WATER - (250°F AND BELOW)	2" NPS AND LESS	2"	RIGID FIBERGLASS	
HEATING WATER - (250°F AND BELOW)	2-1/2" NPS TO 14" NPS	2"	RIGID FIBERGLASS	
EQUIPMENT INSULATION REQUIREMENTS				
CHILLED WATER PUMPS	COLD SURFACE	1-1/2"	CLOSED CELL ELASTOMERIC OR CELLULAR GLASS	REMOVABLE COVER

SPECIFICATION SECTIONS:
230716 - HVAC EQUIPMENT INSULATION
230719 - HVAC PIPING INSULATION

MECHANICAL EQUIPMENT SCHEDULE - PUMPS

IDENTITY DATA				PERFORMANCE DATA			CONNECTION SIZES		MOTOR DATA									
DESIGNATION	SERVICE TO	LOCATION	TYPE	FLOW	HEAD	DUTY POINT EFFICIENCY	SUCTION	DISCHARGE	POWER	RPM	VOLTS	PHASE	MCA	MOCP	VFD	STARTER/DISCONNECT	FURNISHED BY	REMARKS
PCHWP-1	CHILLED WATER	BASEMENT	BASE MOUNTED END SUCTION	140.0 GPM	72.00 ftH2O	71%	3"	1 1/2"	7.50 hp	1800	208 V	3	20.9 A	30 A	X	--	DIV. 23	ALL
PCHWP-2	CHILLED WATER	BASEMENT	BASE MOUNTED END SUCTION	140.0 GPM	72.00 ftH2O	71%	3"	1 1/2"	7.50 hp	1800	208 V	3	20.9 A	30 A	X	--	DIV. 23	ALL

SPECIFICATION SECTION:
232123 - HYDRONIC PUMPS

REMARKS:
1. PROVIDE TEFC MOTORS WITH WALL MOUNTED VFDS.
2. "X" IN THE SCHEDULE CELL INDICATES THIS ITEM SHALL BE PROVIDED.
3. PUMP IMPELLER SIZE - 9.5 IN. NPSHR 3.71FT. MIN. FLOW 35.2 GPM.

MECHANICAL EQUIPMENT SCHEDULE - GRILLES, REGISTERS AND DIFFUSERS

	TYPE			SERVICE TO				MOUNTING DATA			CONSTRUCTION DATA									SELECTION BASED ON		
														ACCESSORIES		PATTERN						
UNIT TAG	G	R	D	SA	RA	EA	TA	CEILING	DUCT	WALL	SHAPE	MATERIAL	COLOR	VOLUME DAMPER	REMOTE CABLE OPERATOR	1-W	2-W	3-W	4-W	E/R	MANUFACTURER	MODEL	COMMENTS
S-1	X			X				X		X	RECTANGULAR	STEEL	PER ARCH.	X			X				TITUS	300RS	ALL

SPECIFICATION SECTIONS:
233713 - DIFFUSERS, REGISTERS, AND GRILLES

REMARKS:
1. FINAL COLOR SELECTION BY ARCHITECT. VENDOR TO SUBMIT FULL COLOR CHART.

MECHANICAL EQUIPMENT SCHEDULE - FAN COIL UNIT SCHEDULE

	HYDRONIC HEATING COIL DATA												COOLING COIL DATA										FAN MOTOR DATA										
	AIR			CONTROL VALVE			WATER						AIR		CONTROL VALVE			WATER						MOTOR DATA										
DESIGNATION	FLOWRATE	CAPACITY	LAT	TYPE	MIN.dP (FT. H2O)	MAX.dP (FT. H2O)	FLOWRATE	EWT(°F DB)	LWT(°F DB)	WATERSIDE dP (MAX. FT.H2O)	ROWS	FINS/IN. (MAX)	FACE AREA (MIN. SF)	FLOWRATE (CFM)	CAPACITY (MBH)	LAT (°F DB)	TYPE	MIN. dP (FT.H2O)	MAX. dP (FT.H2O)	FLOWRATE (GPM)	EWT (°F)	LWT (°F)	WATERSIDE dP (MAX FT. H2O)	ROWS	FINS/IN. (MAX. SF)	FACE AREA (MIN.SF)	VOLT	PHASE	MCA	FLA	TYPE	STARTER / DISCONNECT	FURNISHED BY	MANUFACTURER	MODEL	REMARKS
FCU-A	200 CFM	7800 Btu/h	100.0 °F	CV, BALL	2.30 ftH2O	3.45 ftH2O	1.0 GPM	130.0 °F	114.0 °F	1.50 ftH2O	2	10	0.75 SF	200 CFM	5300 Btu/h	58.6 °F	CV, BALL	2.30 ftH2O	6.44 ftH2O	1.0 GPM	44.0 °F	54.4 °F	2.80 ftH2O	3	10	0.75 SF	115 V	1	1.5 A	1.2 A	ECM	YES	DIV. 23	IEC	FXA02	1, 2, 3
FCU-B	210 CFM	8800 Btu/h	102.6 °F	CV, BALL	2.30 ftH2O	9.90 ftH2O	2.0 GPM	130.0 °F	121.1 °F	4.30 ftH2O	2	10	0.75 SF	210 CFM	6600 Btu/h	54.7 °F	CV, BALL	2.30 ftH2O	10.00 ftH2O	2.0 GPM	44.0 °F	50.5 °F	8.30 ftH2O	3	10	0.75 SF	115 V	1	1.5 A	15.0 A	ECM	YES	DIV. 23	IEC	FXA02	1, 2, 3
FCU-C	270 CFM	9900 Btu/h	98.0 °F	CV, BALL	2.30 ftH2O	3.90 ftH2O	1.0 GPM	130.0 °F	110.2 °F	1.70 ftH2O	2	10	1.00 SF	270 CFM	6600 Btu/h	59.3 °F	CV, BALL	2.30 ftH2O	7.13 ftH2O	1.0 GPM	44.0 °F	57.1 °F	3.10 ftH2O	3	10	1.00 SF	115 V	1	1.8 A	1.4 A	ECM	YES	DIV. 23	IEC	FXA03	1, 2, 3
FCU-D	270 CFM	11000 Btu/h	101.9 °F	CV, BALL	2.30 ftH2O	10.00 ftH2O	2.0 GPM	130.0 °F	118.9 °F	4.90 ftH2O	2	10	1.00 SF	270 CFM	8100 Btu/h	57.4 °F	CV, BALL	2.30 ftH2O	10.00 ftH2O	2.0 GPM	44.0 °F	52.0 °F	9.30 ftH2O	3	10	1.00 SF	115 V	1	1.8 A	1.4 A	ECM	YES	DIV. 23	IEC	FXA03	1, 2, 3
FCU-E	350 CFM	12300 Btu/h	96.7 °F	CV, BALL	2.30 ftH2O	4.60 ftH2O	1.0 GPM	130.0 °F	105.4 °F	2.00 ftH2O	2	10	1.08 SF	350 CFM	8200 Btu/h	59.7 °F	CV, BALL	2.30 ftH2O	8.30 ftH2O	1.0 GPM	44.0 °F	60.3 °F	3.60 ftH2O	3	10	1.08 SF	115 V	1	1.9 A	1.5 A	ECM	YES	DIV. 23	IEC	FXA04	1, 2, 3
FCU-F	350 CFM	14000 Btu/h	101.2 °F	CV, BALL	2.30 ftH2O	10.00 ftH2O	2.0 GPM	130.0 °F	115.9 °F	5.80 ftH2O	2	10	1.08 SF	350 CFM	10100 Btu/h	57.8 °F	CV, BALL	2.30 ftH2O	10.00 ftH2O	2.0 GPM	44.0 °F	54.0 °F	10.80 ftH2O	3	10	1.08 SF	115 V	1	1.9 A	1.5 A	ECM	YES	DIV. 23	IEC	FXA04	1, 2, 3
FCU-G	520 CFM	18700 Btu/h	97.4 °F	CV, BALL	2.30 ftH2O	2.76 ftH2O	2.0 GPM	130.0 °F	111.2 °F	1.20 ftH2O	2	10	2.00 SF	520 CFM	12400 Btu/h	59.6 °F	CV, BALL	2.30 ftH2O	5.06 ftH2O	2.0 GPM	44.0 °F	56.3 °F	2.20 ftH2O	3	10	2.00 SF	115 V	1	2.8 A	2.2 A	ECM	YES	DIV. 23	IEC	FXA06	1, 2, 3
FCU-H	750 CFM	17900 Btu/h	86.6 °F	CV, BALL	2.30 ftH2O	10.00 ftH2O	2.0 GPM	130.0 °F	112.0 °F	4.60 ftH2O	2	10	3.61 SF	750 CFM	16600 Btu/h	59.4 °F	CV, BALL	2.30 ftH2O	1.61 ftH2O	2.0 GPM	44.0 °F	60.5 °F	0.70 ftH2O	4	10	3.61 SF	115 V	1	4.4 A	3.9 A	ECM	YES	DIV. 23	IEC	FXA10	1, 2, 3
FCU-I	840 CFM	20400 Btu/h	86.9 °F	CV, BALL	2.30 ftH2O	10.00 ftH2O	3.0 GPM	130.0 °F	116.3 °F	8.70 ftH2O	2	10	3.61 SF	840 CFM	21500 Btu/h	58.3 °F	CV, BALL	2.30 ftH2O	3.22 ftH2O	3.0 GPM	44.0 °F	58.2 °F	1.40 ftH2O	4	10	3.61 SF	115 V	1	4.4 A	3.9 A	ECM	YES	DIV. 23	IEC	FXA10	1, 2, 3
FCU-J	200 CFM	11900 Btu/h	105.0 °F	CV, BALL	2.30 ftH2O	4.60 ftH2O	1.0 GPM	180.0 °F	160.0 °F	2.00 ftH2O	2	10	0.75 SF														115 V	1	1.5 A	1.2 A	ECM	YES	DIV. 23	IEC	GXY02	4.

SPECIFICATION SECTIONS:
238219 FAN COIL UNITS
238233 CONVECTORS

1. PROVIDE EC MOTORS WITH UNIT MOUNTED THERMOSTAT.
2. FAN COIL UNITS INSTALLED ON THE 5TH FLOOR SHALL HAVE A 3-WAY VALVE FOR THE COOLING COILS, UNITS INSTALLED ON THE 4TH AND 5TH FLOORS SHALL HAVE 3-WAY VALVES FOR HEATING COILS TO ENSURE MINIMUM FLOW BYPASS TO PUMPS. ALL OTHER COILS ARE 2-WAY VALVES.
3. CONTRACTOR TO PROVIDE UNIT MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT WITH 2-HOUR MANUAL OVERRIDE CAPABILITY (IEC VENTURE OR EQUAL).
4. PROVIDE 3-WAY VALVES FOR UNITS.

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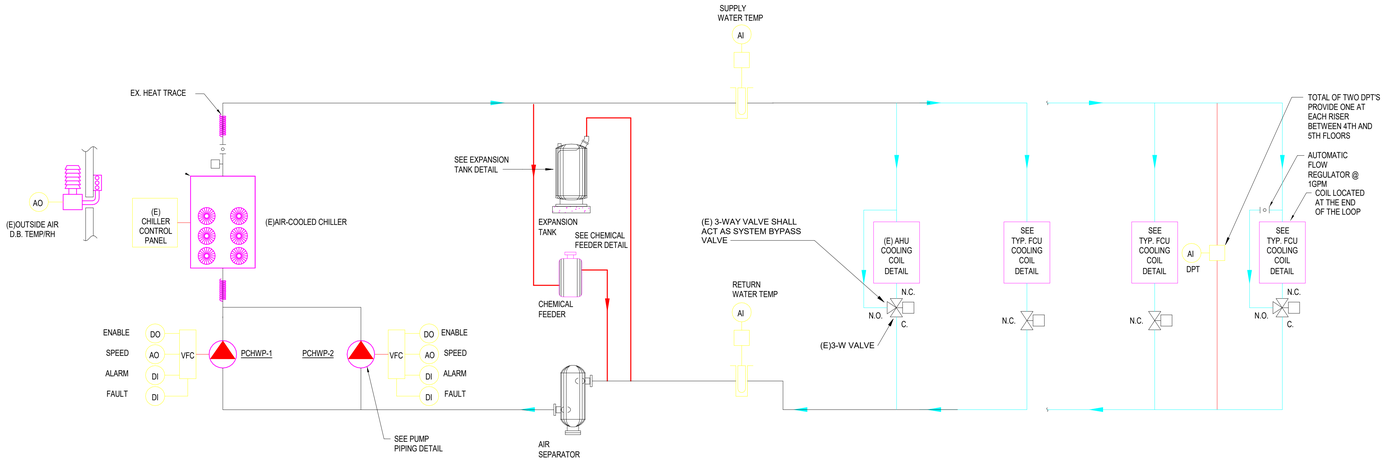
SCHEDULES
M002



CHILLED WATER SYSTEM CONTROL DIAGRAM

SEQUENCE OF OPERATION

CHILLED WATER SYSTEM (UNDER NORMAL POWER CONDITION):

GENERAL:

CHILLED WATER SYSTEM IS DESIGNED AS A VARIABLE PRIMARY FLOW SYSTEM . IT CONSISTS OF ONE EX. AIR-COOLED CHILLER. TWO CHILLED WATER PUMPS (PRIMARY/STANDBY) AND TERMINAL UNITS.

CHILLED WATER PUMP PRIMARY/STANDBY DUTY SHALL BE ROTATED ON A WEEKLY BASIS. ROTATION ORDER SHALL BE BASED ON EQUIPMENT RUNTIME.

WHENEVER THE PRIMARY PUMP FAILS, THE STANDBY PUMP SHALL BE ENERGIZED AUTOMATICALLY AND AN ALARM SHALL BE SENT TO THE BAS SYSTEM.

ONCE ENERGIZED, CHILLER(S) AND PUMP(S) SHALL RUN AT MINIMUM 10 MINUTES UNLESS THERE IS AN ALARM CONDITION THAT REQUIRES IMMEDIATE SHUT-DOWN.

EX. CHILLER CONTROL SEQUENCE SHALL REMAIN UNLESS NOTED BELOW.

UNDER ANY ONE OF THE FOLLOWING CONDITIONS, CHILLED WATER SYSTEM SHALL BE ENABLED:

- OUTDOOR AIR TEMPERATURE REACHES 70°F, WITH 4°F CYCLE DIFFERENTIAL.
- THERE IS CALL FOR COOLING (CHW VALVE ON UNIT OPEN TO THE COIL - CALL WHEN ANY ONE VALVE COMMAND RISES TO 30% OPEN, STOP CALLING WHEN ALL VALVE COMMANDS FALL TO LESS THAN 5%).

UPON A FAILURE OF NETWORK COMMUNICATIONS THAT PREVENTS THE SHARING OF LOAD VALVE COMMANDS, AN OUTDOOR AIR TEMPERATURE ENABLE SETPOINT OF 55°F (ADJUSTABLE), WITH 4°F CYCLE DIFFERENTIAL, SHALL BE USED,

WHEN CHILLED WATER SYSTEM IS ENABLED, PRIMARY CHILLED WATER PUMP SHALL BE ENERGIZED AND RAMP UP TO SPEED AT A RATE OF 1 HZ/SECOND UNTIL DIFFERENTIAL PRESSURE SETTING IS MET.

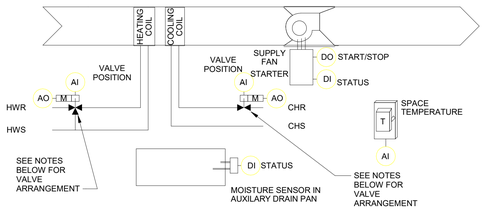
DIFFERENTIAL PRESSURE SETTING SHALL BE DENAMICALLY ADJUSTED TO MAINTAIN TWO CHILLED WATER CONTROL VALVES ARE OPEN GREATER THAN 90% TO THE COIL.

AFTER EVAPORATOR WATER FLOW HAS BEEN PROVED BY THE FLOW SWITCH, LEAD CHILLER SHALL BE ENERGIZED. ONCE STARTED, CHILLER SHALL MAINTAIN 44°F SUPPLY WATER TEMPERATURE. CHILLED WATER PUMP SHALL CONTINUE TO RUN FOR 60 SECONDS AFTER CHILLER SHUTDOWN.

MIN. FLOW THRU THE CHILLER SHALL BE MAINTAIN AT ALL TIMES.

6B CHILLED WATER / HOT WATER CONTROL DIAGRAMS

M101 12" = 1'-0"



SEQUENCE OF OPERATION (FOUR-PIPE FCU)

ON A RISE IN SPACE TEMPERATURE, THE COOLING COIL VALVE SHALL BE MODULATED TO OPEN TO MAINTAIN SETPOINT IN THE SPACE (MAINTAIN 75°F, ADJ.). ON A FALL IN SPACE TEMPERATURE, COOLING COIL VALVE SHALL BE MODULATED TO CLOSE. ON A CONTINOUS FALL IN SPACE TEMPERATURE, HEATING COIL VALVE SHALL BE MODULATED TO OPEN TO MAINTAIN 70°F, ADJ. THERE SHALL BE A 5°F DEADBAND BETWEEN HEATING AND COOLING.

THE BAS SHALL CONSTANTLY MONITOR SPACE TEMPERATURE, 2-WAY / 3-WAY VALVE POSITION HEATING/COOLING COILS.

AN ALARM SHALL BE SENT TO THE BAS SYSTEM WHEN MOISTURE SENSOR IN THE AUXILIARY DRAIN PAN SENSES MOISTURE LEVEL EXCEEDING ITS SETPOINT.

CHW COILS GET 3-WAY VALES ON THE 5TH FLOOR. ALL OTHER FLOORS TO RECEIVE 2-WAY VALVE

HW COILS GET 3-WAY VALES ON THE 4TH AND 5TH FLOOR. ALL OTHER FLOORS TO RECEIVE 2-WAY VALVE.

THERMOSTATIC SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C).

PROGRAMABLE CONTOLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS.

6A FAN COIL UNIT CONTROL DIAGRAM W/2-W OR 3-W VALVES

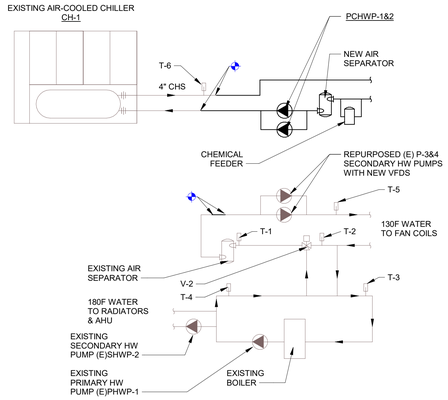
M101 12" = 1'-0"

HEATING HOT WATER - GENERAL NOTES

1. HEATING HOT WATER SYSTEM IS WATER (NO GLYCOL).
2. WHERE A PRESSURE TRANSDUCER OR TEMPERATURE SENSOR IS LOCATED, PROVIDE A LOCAL INDICATION (PRESSURE GAUGE OR THERMOMETER) ADJACENT.
3. MODULATING CONTROL VALVES 1-1/2" AND SMALLER SHALL BE ACTUATED BALL VALVE TYPE.
4. MODULATING CONTROL VALVES LARGER THAN 1-1/2" SHALL BE ACTUATED HIGH-PERFORMANCE BUTTERFLY TYPE.
5. ALL MOTORIZED TWO POSITION AND MODULATION VALVES IN THE BUILDING SHALL BE POWERED FROM DIN RAILS LOCATED IN THE CONTROL PANELS. PROVIDE INDIVIDUAL CIRCUIT PROTECTION FOR EACH VALVE CIRCUIT.
6. EXISTING WATER LINES WILL BECOME THE PRIMARY HOT WATER LINES.

CHILLED WATER - GENERAL NOTES

1. CHILLED WATER SYSTEM IS WATER (NO GLYCOL).
2. WHERE A PRESSURE TRANSDUCER OR TEMPERATURE SENSOR IS LOCATED, PROVIDE A LOCAL INDICATION (PRESSURE GAUGE OR THERMOMETER) ADJACENT.
3. MODULATING CONTROL VALVES 1-1/2" AND SMALLER SHALL BE ACTUATED BALL VALVE TYPE.
4. MODULATING CONTROL VALVES LARGER THAN 1-1/2" SHALL BE ACTUATED HIGH-PERFORMANCE BUTTERFLY TYPE.
5. ALL MOTORIZED TWO POSITION AND MODULATION VALVES IN THE BUILDING SHALL BE POWERED FROM DIN RAILS LOCATED IN THE CONTROL PANELS. PROVIDE INDIVIDUAL CIRCUIT PROTECTION FOR EACH VALVE CIRCUIT.



PCHWP-1&2 DOWNSTREAM PRESSURE SENSOR TO CONTROL PUMP VFD. TYPICAL OF 2 SENSORS.

(E)SHWP-1&2 DOWNSTREAM PRESSURE SENSOR TO CONTROL PUMP VFD. TYPICAL OF 4 SENSORS.

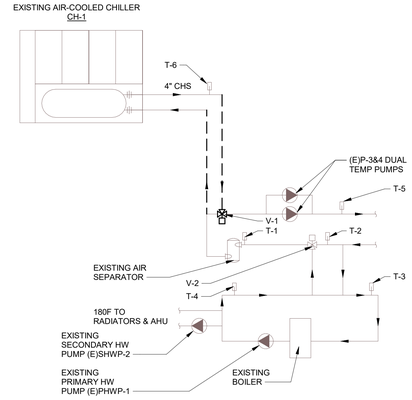
AI
DP

NOTES:

1. PROVIDE ALL VALVES AND PIPING SPECIALTIES SHOWN ON THIS DIAGRAM. SEE DETAIL SHEETS FOR ADDITION VALVES AND PIPING SPECIALTIES REQUIRED. SEE CONTROL DIAGRAMS FOR ADDITIONAL CONTROL DEVICES REQUIRED. VERIFY ALL PIPE SIZES SHOWN WITH FLOOR PLANS. WHERE DISCREPANCIES EXIST, PIPES SHALL BE SIZED PER THE FLOOR PLANS.
2. PCHWP-1&2 VFDS ARE CONTROLLED BY THE DOWNSTREAM PRESSURE SENSORS. ONE SENSOR IS INSTALLED IN EACH NEW RISER. THE ACTIVE PUMP SHALL BE CONTROLLED BY THE SENSOR READING THE LOWEST PRESSURE ("LOW SELECT OPERATION")
3. CONNECT NEW CONTROLS TO EXISTING AUTOMATION SYSTEM INSTALLED IN BASEMENT CONTROL PANEL.
4. (E)P-3&4 VFDS ARE CONTROLLED BY THE DOWNSTREAM PRESSURE SENSORS. ONE SENSOR SHALL BE INSTALLED IN EACH EXISTING RISER. THE ACTIVE PUMP SHALL BE CONTROLLED BY THE SENSOR READING THE LOWEST PRESSURE ("LOW SELECT OPERATION.")

2C NEW FOUR PIPE SYSTEM FLOW DIAGRAM

M101 12" = 1'-0"



NOTES:

1. EXISTING BOILER SUPPLIES WATER AT 180F AND THIS IS DISTRIBUTED TO THE RADIATORS AND EXISTING AHU. V-2 MIXES THE WATER DOWN TO 130F WHEN SYSTEM IS IN HEATING MODE.

2A EXISTING DUAL TEMPERATURE SYSTEM FLOW DIAGRAM

M101 12" = 1'-0"

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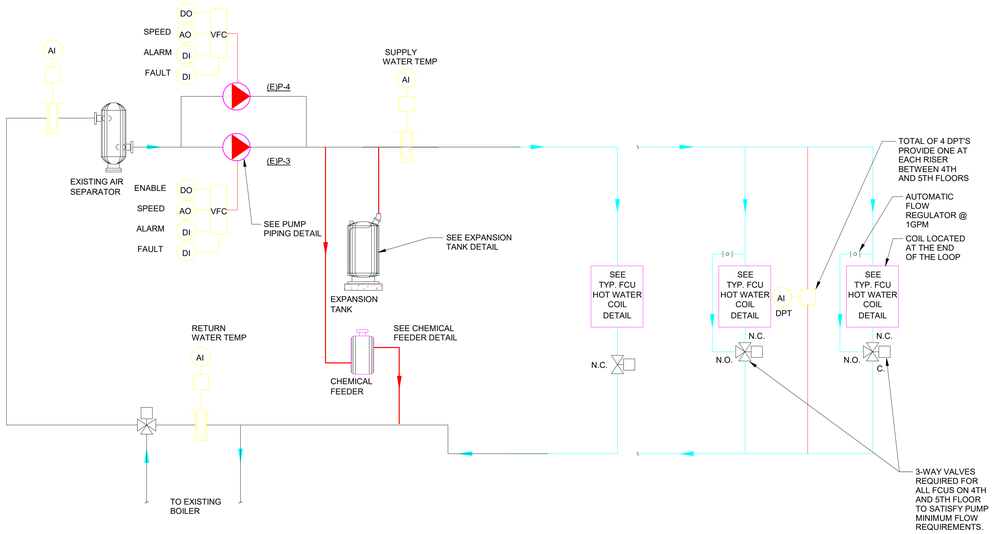
FLOW DIAGRAMS
M101



HOT WATER WATER SYSTEM CONTROL DIAGRAM

SEQUENCE OF OPERATION

HOT WATER SYSTEM (UNDER NORMAL POWER CONDITION):

GENERAL:

NEW VFDS ARE ADDED TO EX. DUAL TEMPERATURE WATER PUMP #3 AND #4. THEY BECOME THE NEW SECONDARY HW PUMPS AS REFERRED BELOW.

SECONDARY HOT WATER PUMP PRIMARY/STANDBY DUTY SHALL BE ROTATED ON A WEEKLY BASIS. ROTATION ORDERS SHALL BE BASED ON EQUIPMENT RUNTIME.

WHENEVER THE PRIMARY PUMP FAILS, THE STANDBY PUMP SHALL BE ENERGIZED AUTOMATICALLY AND AN ALARM SENT TO THE BAS SYSTEM.

EX. BOILER CONTROL SEQUENCE SHALL REMAIN UNLESS NOTED BELOW.

UNDER ANY OF THE FOLLOWING CONDITIONS, CHILLED WATER SYSTEM SHALL BE ENABLED:
OUTDOOR AIR TEMPERATURE REACHES 55F, WITH A 4F CYCLE DIFFERENTIAL
THERE IS A CALL FOR HEATING (HW VALVE ON UNIT OPEN TO THE COIL - CALL WHEN ANY ONE VALVE COMMAND RISES TO 30% OPEN, STOP CALLING WHEN ALL VALVE COMMANDS FALL TO LESS THAN 5%.

UPON A FAILURE OF NETWORK COMMUNICATIONS THAT PREVENTS THE SHARING OF LOAD VALVE COMMANDS, AN OUTDOOR AIR TEMPERATURE ENABLE SETPOINT OF 55F (ADJUSTABLE) WITH 4F CYCLE DIFFERENTIAL SHALL BE USED.

DIFFERENTIAL PRESSURE SETTING SHALL BE DYNAMICALLY ADJUSTED TO MAINTAIN TWO HOT WATER CONTROL VALVES ARE OPEN GREATER THAN 90% TO THE COIL.

ONCE ENERGIZED, PUMP(S) SHALL RUN AT MINIMUM 10 MINUTES UNLESS THERE IS AN ALARM CONDITION THAT REQUIRES IMMEDIATE SHUT-DOWN. WHEN SECONDARY HOT WATER SYSTEM IS ENABLED, SECONDARY HOT WATER PUMP (PRIMARY) SHALL BE ENERGIZED AND RAMP UP TO SPEED AT A RATE OF 1 HZ/SECOND UNTIL DIFFERENTIAL PRESSURE SETTING IS MET. DIFFERENTIAL PRESSURE SETTING SHALL BE BASED ON LOWEST MEASUREMENT OF THE FOUR SENSORS.

1 M102 HOT WATER CONTROL DIAGRAM
12" = 1'-0"

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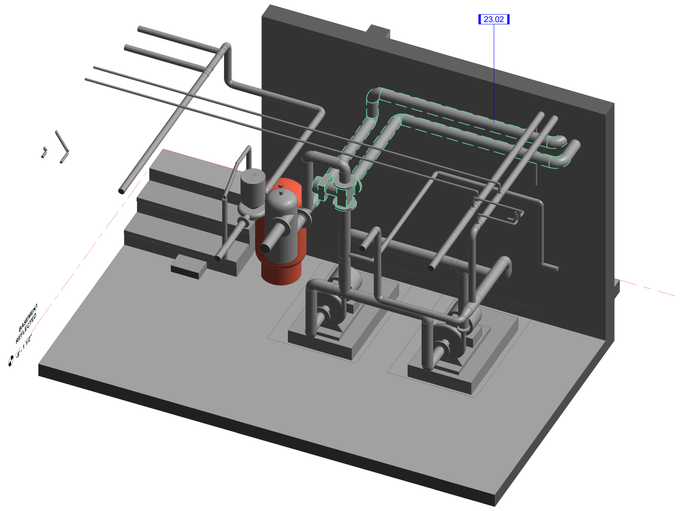
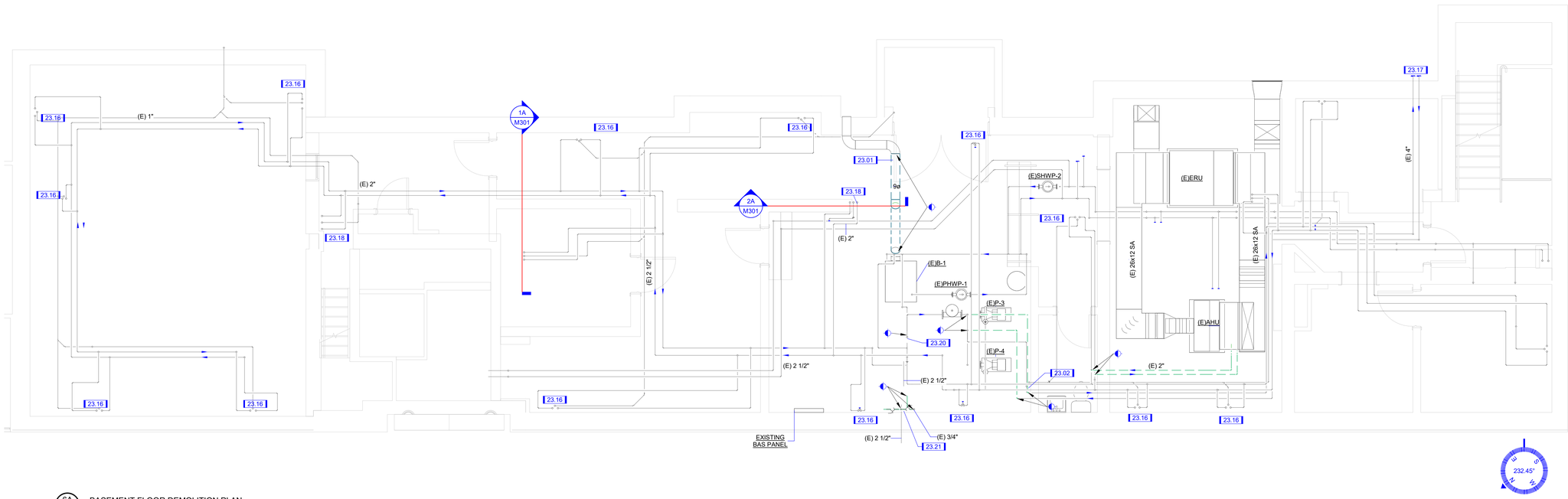
FLOW DIAGRAMS
M102

KEYNOTE LEGEND

23.01	REMOVE BOILER FLUE DUCT (B VENT) TO ALLOW FOR TEMPORARY STRUCTURAL SUPPORT INSTALLATION. CONTRACTOR TO PROVIDE TEMPORARY HEAT SOURCE FOR THE BUILDING IF CONSTRUCTION OCCURS DURING HEATING SEASON.
23.02	DISCONNECT AND REMOVE CHILLED WATER PIPING WHERE INDICATED. REFERENCE FLOW DIAGRAMS ON M601.
23.16	3/4" EXISTING PIPES UP TO FAN COILS ON FLOOR ABOVE.
23.17	EXISTING PIPES TO AIR-COOLED CHILLER.
23.18	EXISTING PIPES UP IN RISER. DRAIN SYSTEM AND CUT RISER AT 1ST FLOOR AND 4TH FLOOR PRIOR TO STRUCTURAL REPAIR.
23.20	REPLACE 3-WAY VALVE.
23.21	REMOVE ALL DOMESTIC WATER PIPING FROM AND INCLUDING MAIN SHUT OFF VALVE TO POINT SHOWN ON PLANS, CAP OPENINGS. EXISTING 3/4" BRANCH PIPE TO BE TEMPORARY CAPPED.



2C M200 PIPE DEMOLITION 3D VIEW



6A M200 BASEMENT FLOOR DEMOLITION PLAN
1/4" = 1'-0"

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BASEMENT FLOOR PIPING- DEMOLITION PLAN

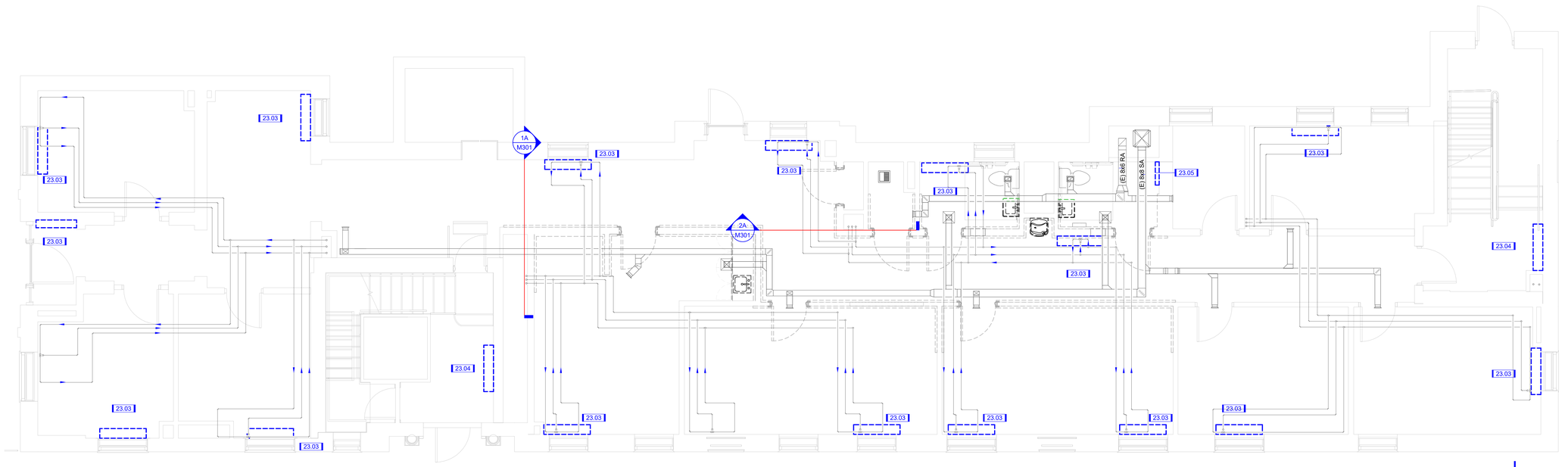
M200

GENERAL SHEET NOTES

1. EXISTING PIPING, DUCT, AND GRILLES/REGISTERS ON THIS FLOOR ARE NOT SHOWN BECAUSE IT IS ALL EXISTING TO REMAIN.

KEYNOTE LEGEND

23.03 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED APPURTENANCES.
23.04 DISCONNECT AND REMOVE EXISTING CABINET UNIT HEATER AND ASSOCIATED APPURTENANCES.
23.05 DISCONNECT AND REMOVE EXISTING FIN TUBE HEATER AND ASSOCIATED APPURTENANCES.



6A
M201 1ST FLOOR DEMOLITION PLAN
1/4" = 1'-0"

BASKERVILL, P.O. BOX 400, RICHMOND, VA 23218-0400

COMMONWEALTH OF VIRGINIA
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(804) 323-0656
Project No.: 2107-17.WR

FISHER ENGINEERING

PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

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1ST FLOOR PIPING - DEMOLITION PLAN

M201

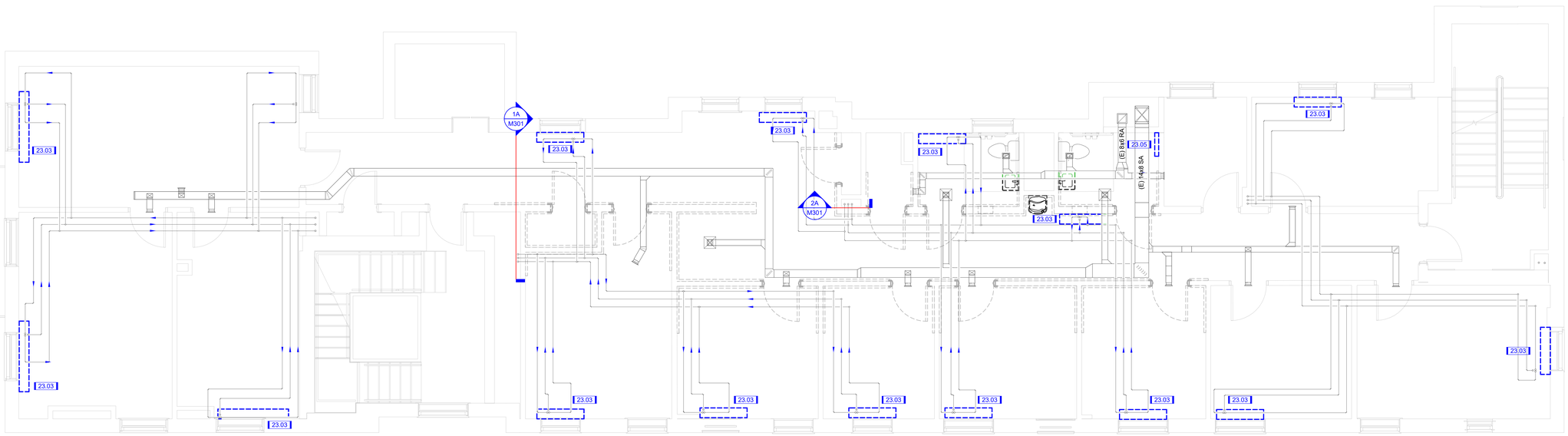
GENERAL SHEET NOTES

1. EXISTING PIPING, DUCT, AND GRILLES/REGISTERS ON THIS FLOOR ARE NOT SHOWN BECAUSE IT IS ALL EXISTING TO REMAIN.

KEYNOTE LEGEND

23.03 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED APPURTENANCES.

23.05 DISCONNECT AND REMOVE EXISTING FIN TUBE HEATER AND ASSOCIATED APPURTENANCES.



6A
M202 2ND FLOOR DEMOLITION PLAN
1/4" = 1'-0"

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2ND FLOOR PIPING - DEMOLITION PLAN

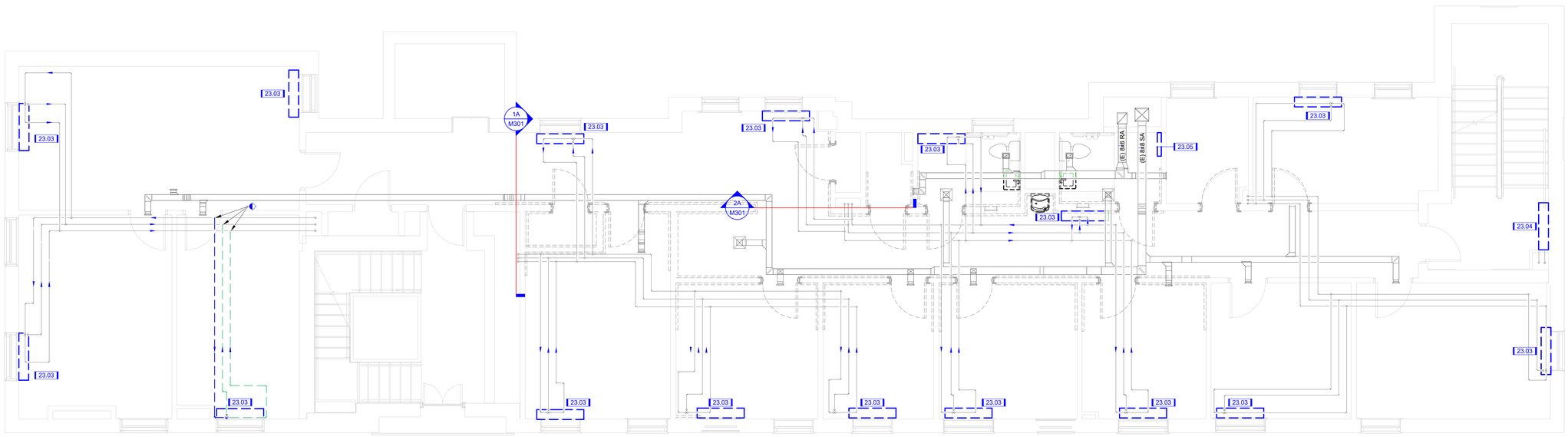
M202

GENERAL SHEET NOTES

1. EXISTING PIPING, DUCT, AND GRILLES/REGISTERS ON THIS FLOOR ARE NOT SHOWN BECAUSE IT IS ALL EXISTING TO REMAIN.

KEYNOTE LEGEND

23.03 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED APPURTENANCES.
23.04 DISCONNECT AND REMOVE EXISTING CABINET UNIT HEATER AND ASSOCIATED APPURTENANCES.
23.05 DISCONNECT AND REMOVE EXISTING FIN TUBE HEATER AND ASSOCIATED APPURTENANCES.



6A M203 3RD FLOOR DEMOLITION PLAN
1/4" = 1'-0"

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3RD FLOOR PIPING - DEMOLITION PLAN

M203

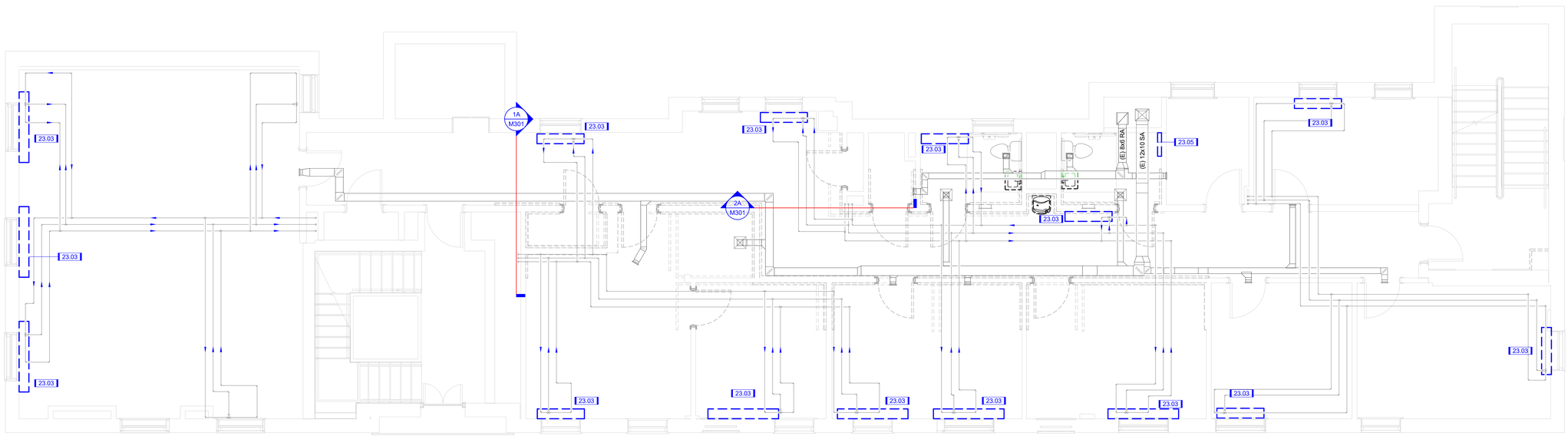
GENERAL SHEET NOTES

1. EXISTING PIPING, DUCT, AND GRILLES/REGISTERS ON THIS FLOOR ARE NOT SHOWN BECAUSE IT IS ALL EXISTING TO REMAIN.

KEYNOTE LEGEND

23.03 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED APPURTENANCES.

23.05 DISCONNECT AND REMOVE EXISTING FIN TUBE HEATER AND ASSOCIATED APPURTENANCES.



6A M204 4TH FLOOR DEMOLITION PLAN
1/4" = 1'-0"

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4TH FLOOR PIPING - DEMOLITION PLAN

M204

GENERAL SHEET NOTES

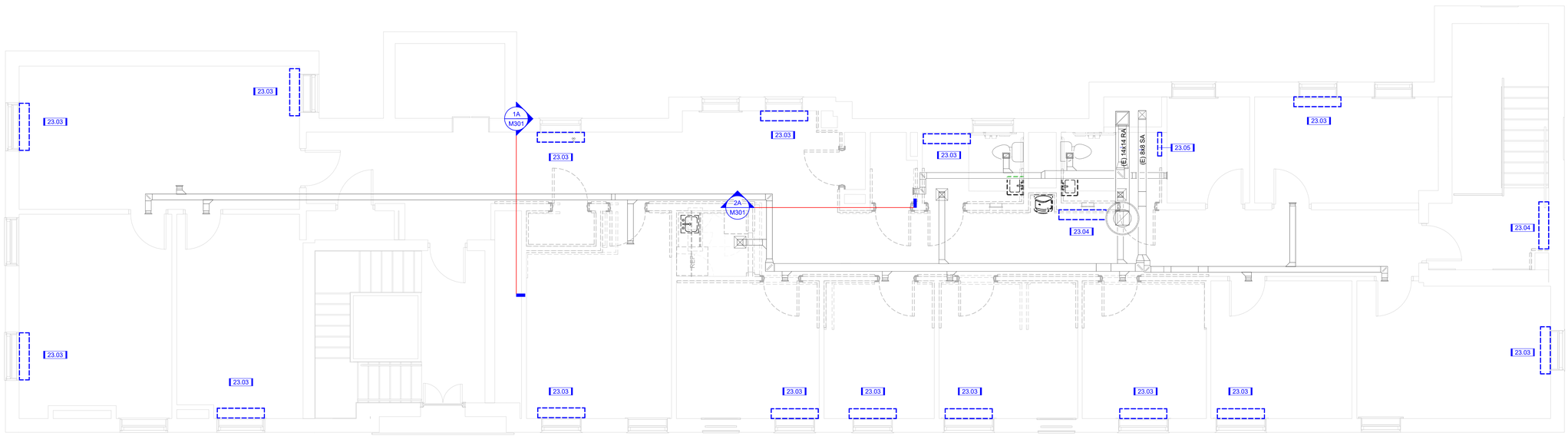
1. EXISTING DUCT AND GRILLES/REGISTERS ON THIS FLOOR ARE NOT SHOWN BECAUSE IT IS ALL EXISTING TO REMAIN.

KEYNOTE LEGEND

23.03 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED APPURTENANCES.

23.04 DISCONNECT AND REMOVE EXISTING CABINET UNIT HEATER AND ASSOCIATED APPURTENANCES.

23.05 DISCONNECT AND REMOVE EXISTING FIN TUBE HEATER AND ASSOCIATED APPURTENANCES.



6A M205 5TH FLOOR DEMOLITION PLAN
1/4" = 1'-0"

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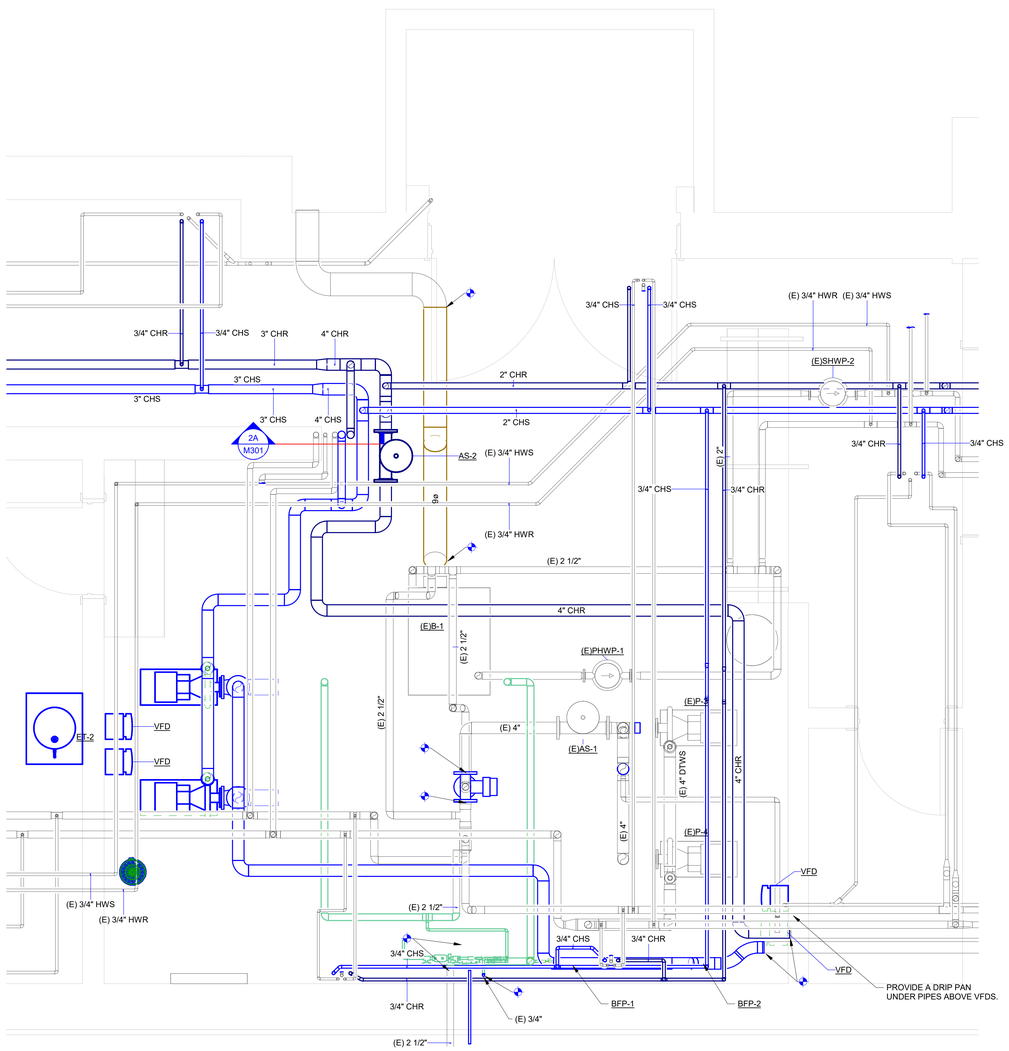
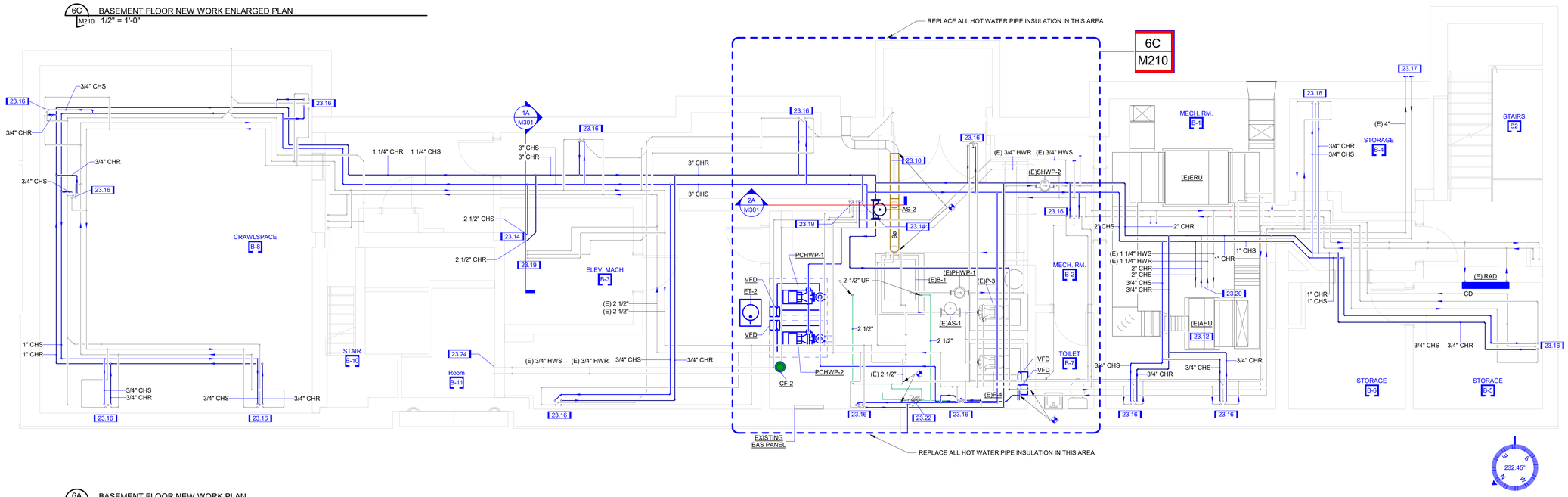
5TH FLOOR PIPING - DEMOLITION PLAN

M205



6C M210 BASEMENT FLOOR NEW WORK ENLARGED PLAN
1/2" = 1'-0"



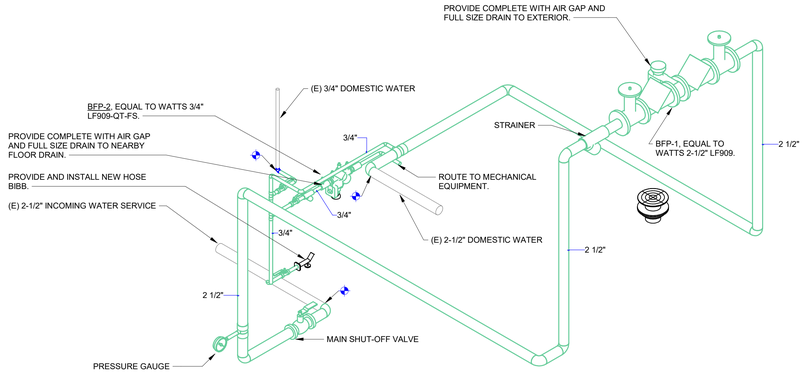
6A M210 BASEMENT FLOOR NEW WORK PLAN
1/4" = 1'-0"

GENERAL SHEET NOTES

1. EXISTING PIPING ON FLOOR PLAN SERVES FAN COIL UNITS ON LEVEL ABOVE.
2. REPLACE ALL CONDENSATE INSULATION.

KEYNOTE LEGEND

23.10	REINSTALL BOILER FLUE PERMANENT FLUE PIPING ONCE STRUCTURAL REPAIRS ARE COMPLETE. SCHEDULE WORK SO THAT BOILER IS AVAILABLE TO HEAT BUILDING DURING PROJECT DURATION.
23.12	EXTEND NEW CHILLED WATER PIPING TO CONNECT TO EXISTING 3-WAY VALVE TO FEED CHILLED WATER COIL. 3-WAY VALVE SHALL REMAIN TO PROVIDE SUFFICIENT MINIMUM SPEED PUMP FLOW RATE.
23.14	NEW SUPPLY AND RETURN PIPE RISER UP. PROVIDE FIRE RATED CAULK SEALANT AROUND EACH PIPE SHAFT PENETRATION.
23.16	3/4" EXISTING PIPES UP TO FAN COILS ON FLOOR ABOVE.
23.17	EXISTING PIPES TO AIR-COOLED CHILLER.
23.19	EXISTING PIPES UP IN RISER. RE-ATTACH RISER AT 1ST FLOOR AND 4TH FLOOR AFTER STRUCTURAL REPAIR IS COMPLETE. PROVIDE FIRE RATED CAULK SEALANT AROUND EACH PIPE SHAFT PENETRATION.
23.20	REPLACE 3-WAY VALVE.
23.22	PROVIDE AND INSTALL NEW 3/4" BACKFLOW PREVENTER FOR MECHANICAL MAKE-UP. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
23.24	PIPING TO BE CONNECTED TO NEW FAN COIL UNIT IN STAIRWELL. REFER TO PLAN M211.



NOTE:
ALL BACKFLOW PREVENTERS SHALL BE INSTALLED PER REQUIREMENTS OF THE CITY OF RICHMOND.

3C DOMESTIC WATER SERVICE RISER DIAGRAM
NOT TO SCALE

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SCHERER HALL RENOVATION

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BASEMENT FLOOR PIPING - NEW WORK PLAN

M210

GENERAL SHEET NOTES

1. EXISTING PIPING ON FLOOR PLAN SERVES FAN COIL UNITS ON LEVEL ABOVE.
2. REPLACE ALL CONDENSATE INSULATION.

KEYNOTE LEGEND

23.06 ROUTE NEW CHILLED WATER PIPING DOWN HALLWAY, ABOVE CEILING. BRANCH PIPING WILL FEED FAN COILS LOCATED ON THE FLOOR ABOVE. SPACE ABOVE CEILING IS CONGESTED WITH BUILDING SERVICES. CONTRACTOR TO ADJUST PIPING ACCORDINGLY BASED ON EXISTING CONDITIONS. PUMP STATIC PRESSURE CALCULATIONS HAVE ACCOMMODATED 6 SETS OF ELBOWS ON MAIN PIPING.

23.07 INSTALL NEW FAN COIL UNIT. CONNECT UNIT TO EXISTING HOT WATER AND NEW CHILLED WATER PIPING ENTERING FROM FLOOR BELOW.

23.08 INSTALL NEW CABINET UNIT HEATER. CONNECT UNIT TO EXISTING HOT WATER PIPING.

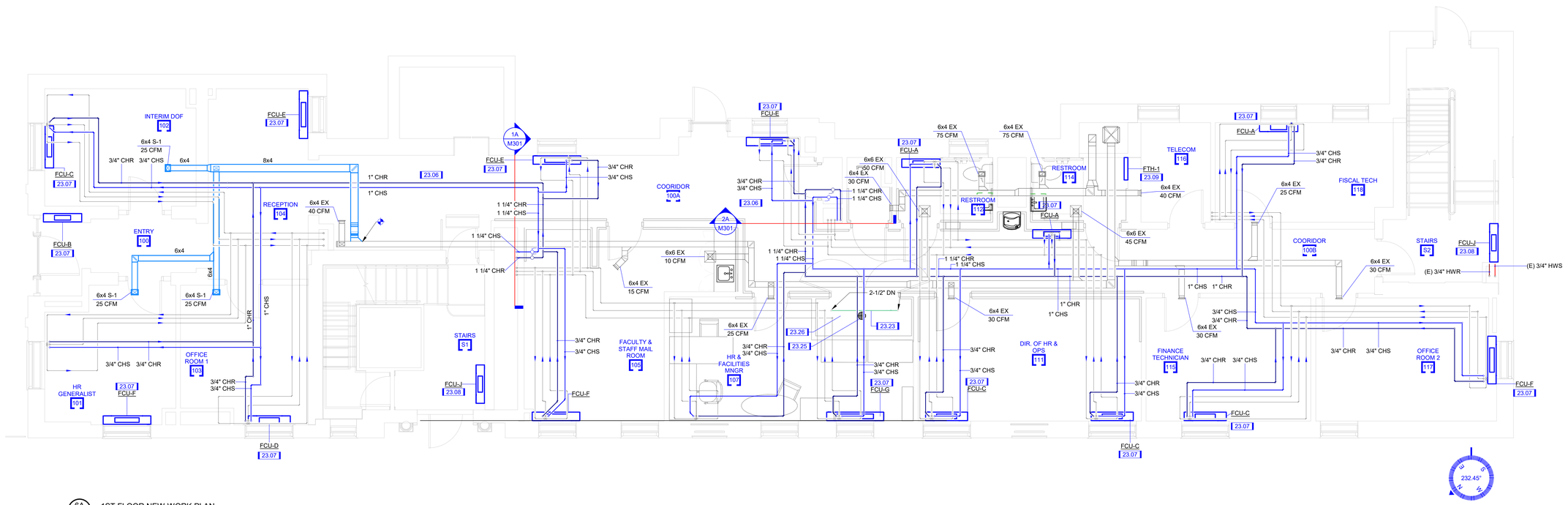
23.09 INSTALL NEW CONVECTOR HEATER. CONNECT UNIT TO EXISTING HOT WATER PIPING.

23.14 NEW SUPPLY AND RETURN PIPE RISER UP. PROVIDE FIRE RATED CAULK SEALANT AROUND EACH PIPE SHAFT PENETRATION.

23.23 PROVIDE AND INSTALL NEW 2-1/2" BACKFLOW PREVENTER COMPLETE WITH STRAINER. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE WITH AIR-GAP AND INDIRECTLY DISCHARGE DRAIN TO FLOOR DRAIN. ROUTE DRAIN TO BASEMENT CEILING, ROUTE ALONG CEILING AND DISCHARGE OUT EXTERIOR WALL. INSTALL PER CITY OF RICHMOND REQUIREMENTS.

23.25 NEW 4" FLOOR DRAIN EQUAL TO J.R. SMITH 2010 WITH 8" STRAINER. PROVIDE COMPLETE WITH P-TRAP AND CODE COMPLIANT TRAP GUARD. ROUTE DRAIN TO BASEMENT CEILING, ROUTE ALONG CEILING AND DISCHARGE OUT EXTERIOR WALL. PROVIDE A 2" VENT WITHIN 16'-0" OF P-TRAP AND CONNECT TO EXISTING VENT SYSTEM.

23.26 PROVIDE A FIELD FABRICATED STAINLESS STEEL DRAIN PAN WITH 2" LIP. DRAIN PAN SHALL COVER THE ENTIRE FLOOR AREA IN THE CLOSET. PROVIDE 6" OPENING WHERE FLOOR DRAIN IS LOCATED TO ALLOW THE FLOW OF DRAIN PAN INTO FLOOR DRAIN. PROVIDE COMPLETE WITH AUDIBLE FLOAT ALARM.



6A M211 1ST FLOOR NEW WORK PLAN
1/4" = 1'-0"

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FISHER ENGINEERING
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1ST FLOOR PIPING - NEW WORK PLAN

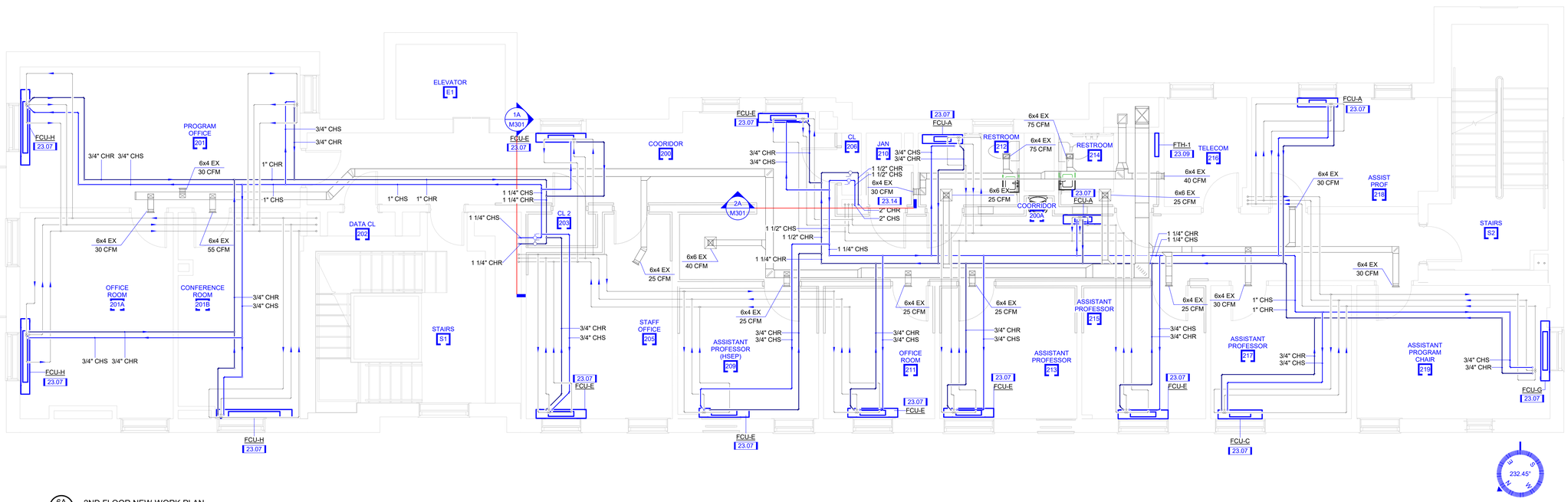
M211

GENERAL SHEET NOTES

1. EXISTING PIPING ON FLOOR PLAN SERVES FAN COIL UNITS ON LEVEL ABOVE.
2. REPLACE ALL CONDENSATE INSULATION.

KEYNOTE LEGEND

23.07 INSTALL NEW FAN COIL UNIT. CONNECT UNIT TO EXISTING HOT WATER AND NEW CHILLED WATER PIPING ENTERING FROM FLOOR BELOW.
23.09 INSTALL NEW CONVECTOR HEATER. CONNECT UNIT TO EXISTING HOT WATER PIPING.
23.14 NEW SUPPLY AND RETURN PIPE RISER UP. PROVIDE FIRE RATED CAULK SEALANT AROUND EACH PIPE SHAFT PENETRATION.



6A M212 2ND FLOOR NEW WORK PLAN
1/4" = 1'-0"

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2ND FLOOR PIPING - NEW WORK PLAN

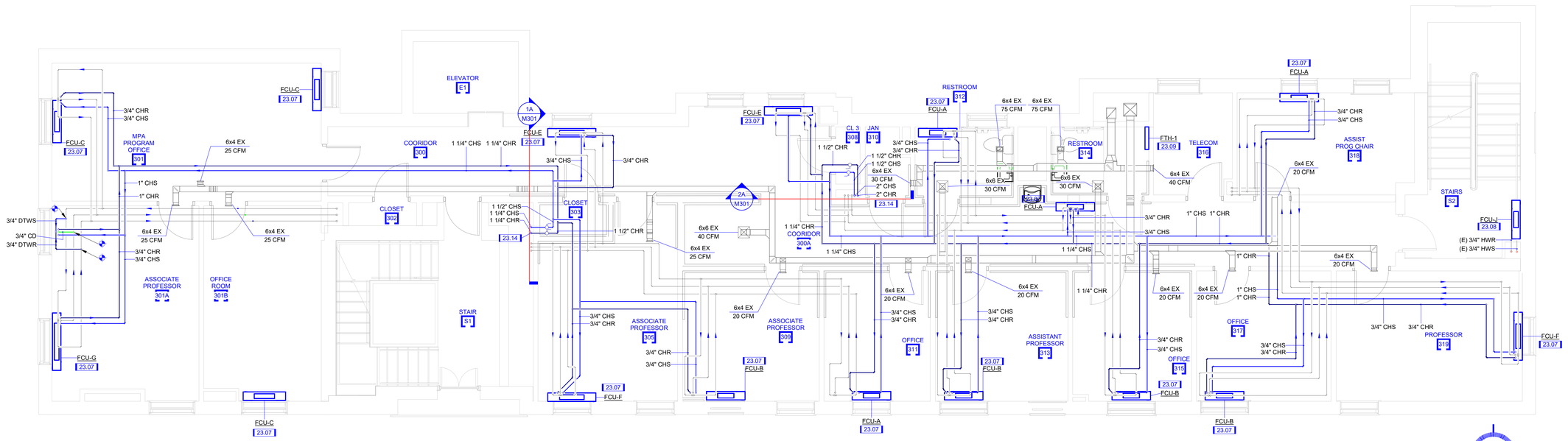
M212

GENERAL SHEET NOTES

1. EXISTING PIPING ON FLOOR PLAN SERVES FAN COIL UNITS ON LEVEL ABOVE.
2. REPLACE ALL CONDENSATE INSULATION.

KEYNOTE LEGEND

23.07 INSTALL NEW FAN COIL UNIT. CONNECT UNIT TO EXISTING HOT WATER AND NEW CHILLED WATER PIPING ENTERING FROM FLOOR BELOW.
23.08 INSTALL NEW CABINET UNIT HEATER. CONNECT UNIT TO EXISTING HOT WATER PIPING.
23.09 INSTALL NEW CONVECTOR HEATER. CONNECT UNIT TO EXISTING HOT WATER PIPING.
23.14 NEW SUPPLY AND RETURN PIPE RISER UP. PROVIDE FIRE RATED CAULK SEALANT AROUND EACH PIPE SHAFT PENETRATION.



6A M213 3RD FLOOR NEW CONSTRUCTION PLAN
1/4" = 1'-0"

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3RD FLOOR PIPING - NEW WORK PLAN
M213

GENERAL SHEET NOTES

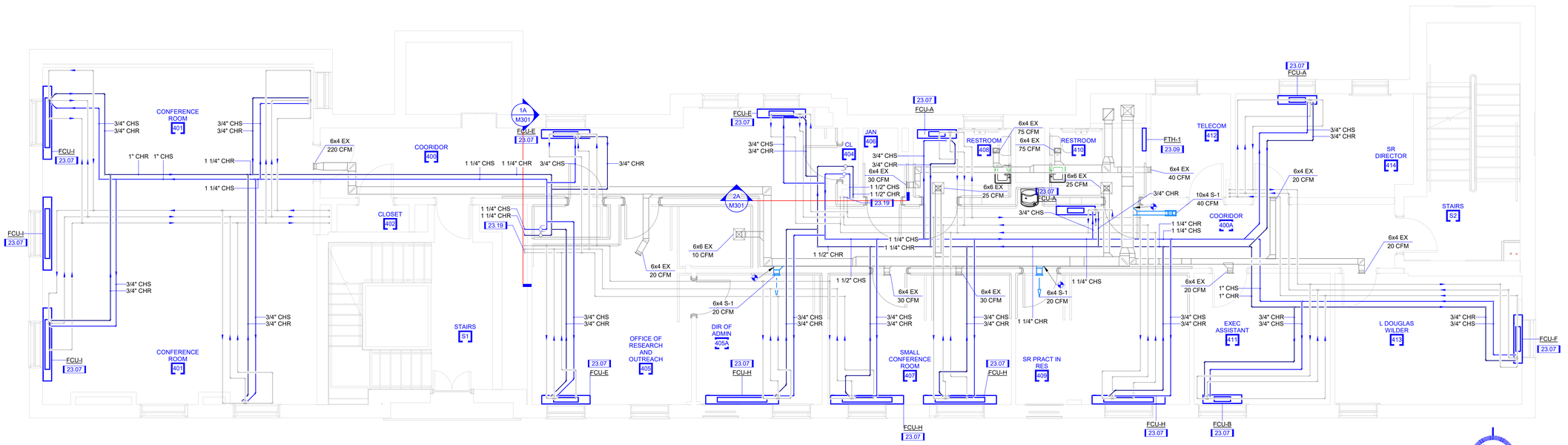
1. EXISTING PIPING ON FLOOR PLAN SERVES FAN COIL UNITS ON LEVEL ABOVE.
2. REPLACE ALL CONDENSATE INSULATION.

KEYNOTE LEGEND

23.07 INSTALL NEW FAN COIL UNIT. CONNECT UNIT TO EXISTING HOT WATER AND NEW CHILLED WATER PIPING ENTERING FROM FLOOR BELOW.

23.09 INSTALL NEW CONVECTOR HEATER. CONNECT UNIT TO EXISTING HOT WATER PIPING.

23.19 EXISTING PIPES UP IN RISER. RE-ATTACH RISER AT 1ST FLOOR AND 4TH FLOOR AFTER STRUCTURAL REPAIR IS COMPLETE. PROVIDE FIRE RATED CAULK SEALANT AROUND EACH PIPE SHAFT PENETRATION.



6A M214 4TH FLOOR NEW WORK PLAN
1/4" = 1'-0"

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4TH FLOOR PIPING - NEW WORK PLAN

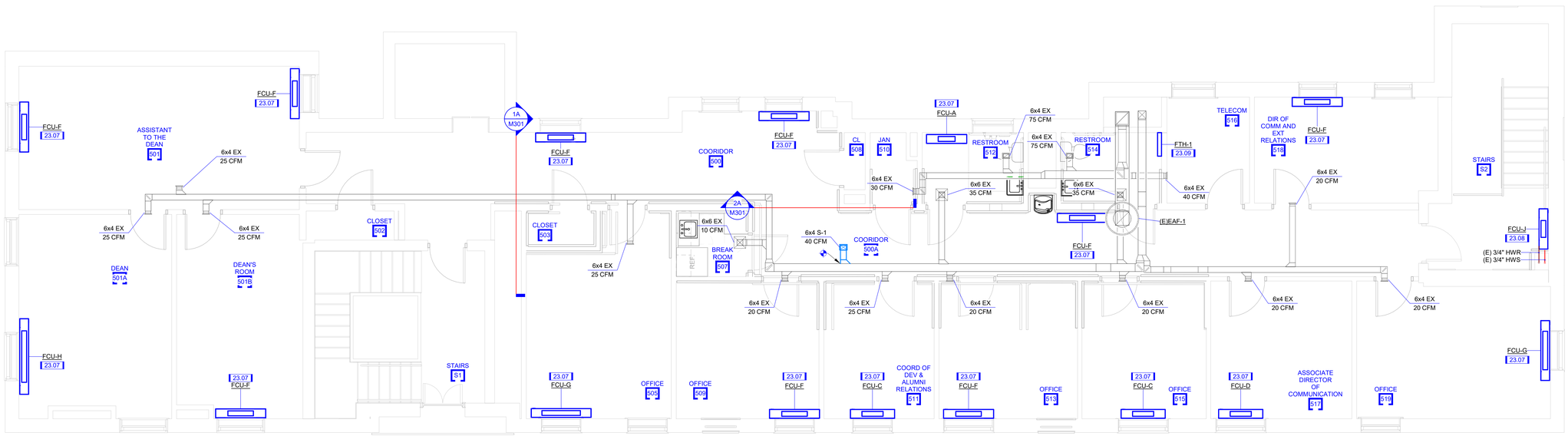
M214

GENERAL SHEET NOTES

1. REPLACE ALL CONDENSATE INSULATION.

KEYNOTE LEGEND

23.07 INSTALL NEW FAN COIL UNIT. CONNECT UNIT TO EXISTING HOT WATER AND NEW CHILLED WATER PIPING ENTERING FROM FLOOR BELOW.
23.08 INSTALL NEW CABINET UNIT HEATER. CONNECT UNIT TO EXISTING HOT WATER PIPING.
23.09 INSTALL NEW CONVECTOR HEATER. CONNECT UNIT TO EXISTING HOT WATER PIPING.



6A M215 5TH FLOOR NEW WORK PLAN
1/4" = 1'-0"

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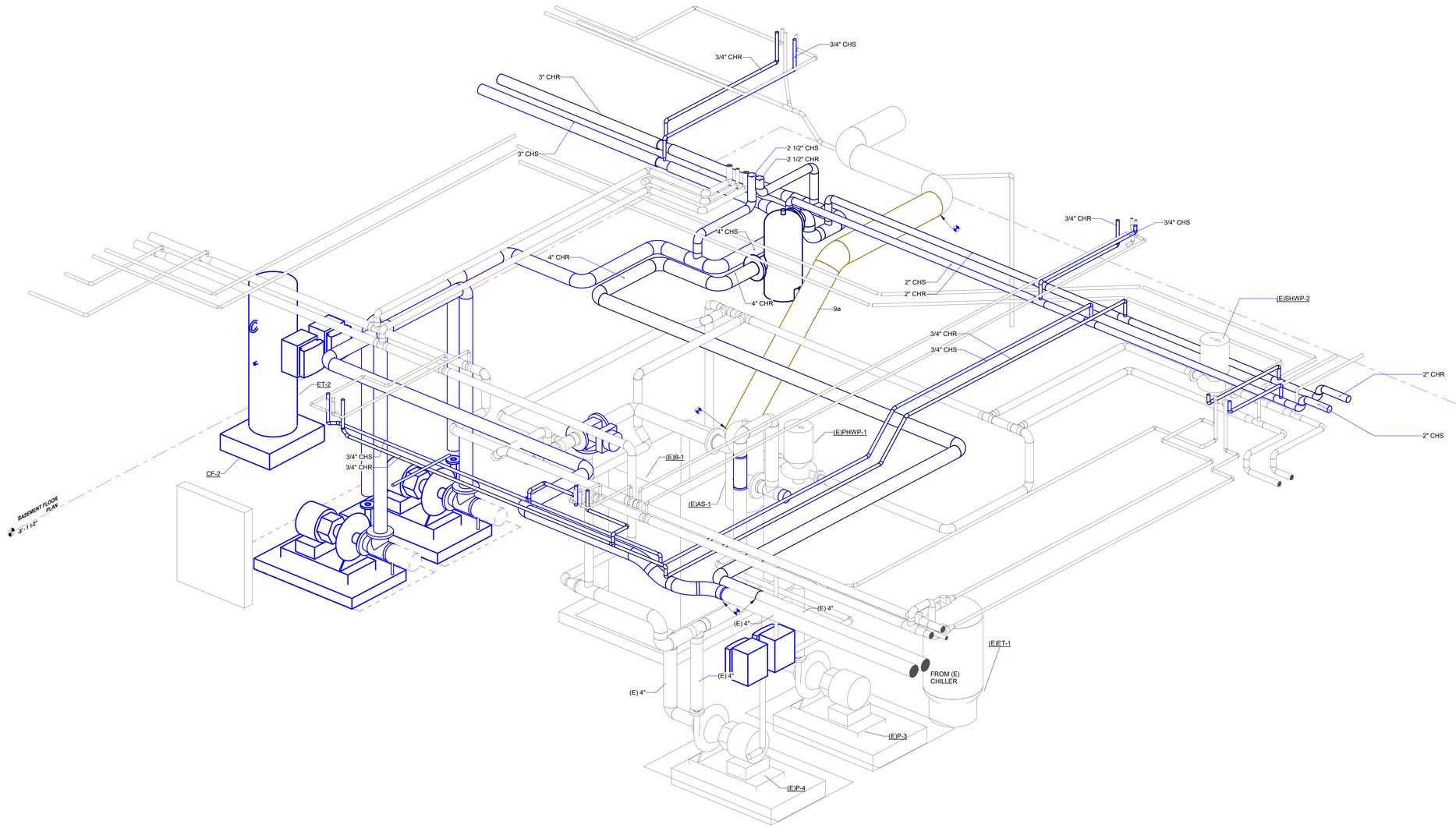
5TH FLOOR PIPING - NEW WORK PLAN

M215



6A M300 MECHANICAL ROOM - 3D VIEW

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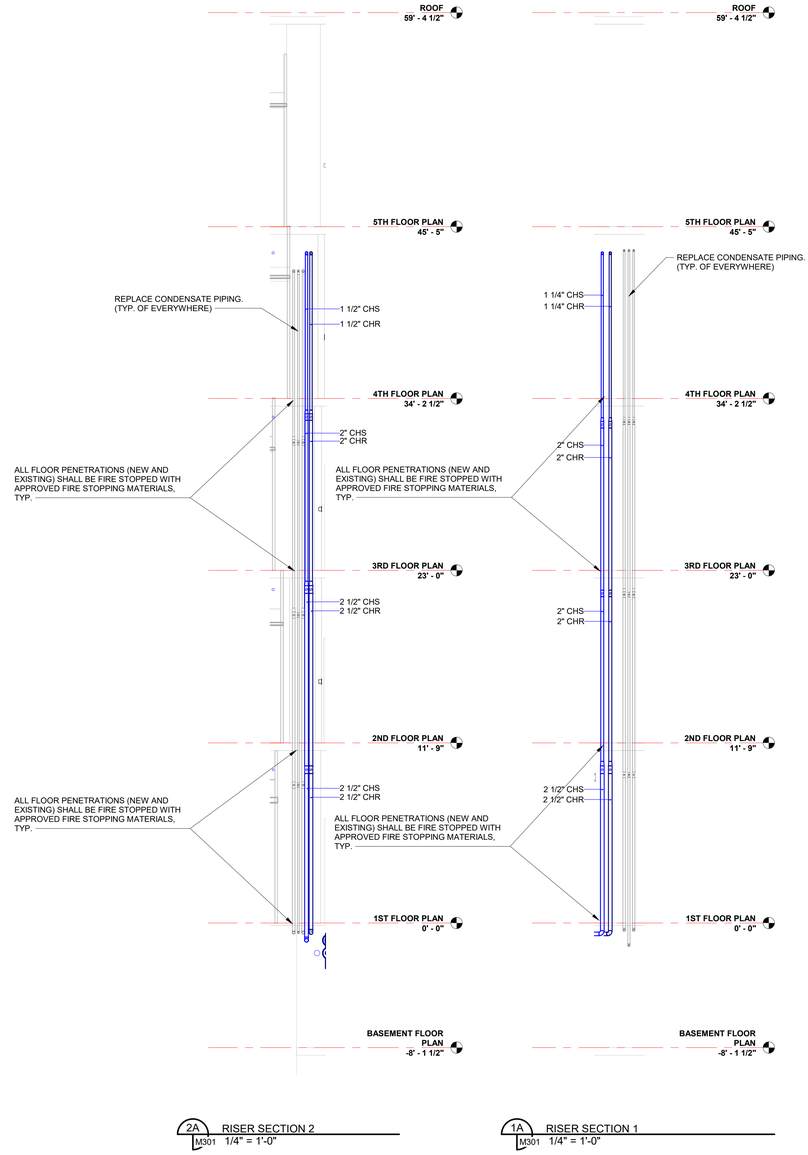
MECHANICAL ROOM 3D VIEW
M300



2A M301 RISER SECTION 2
1/4" = 1'-0"

1A M301 RISER SECTION 1
1/4" = 1'-0"

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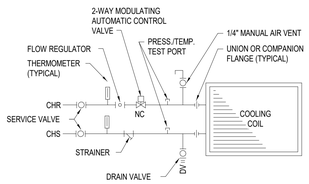
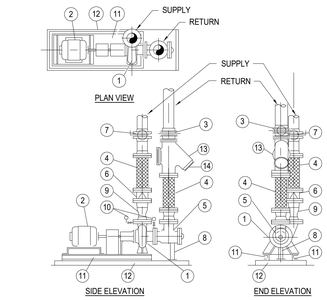
SECTIONS
M301

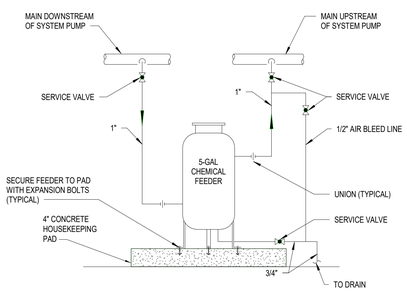


CHW COIL WITH 2-W CONTROL VALVE PIPING DETAIL - FCU UNITS

CHW COIL WITH 3-W CONTROL VALVE PIPING DETAIL - FCU UNITS ON FIFTH FLOOR

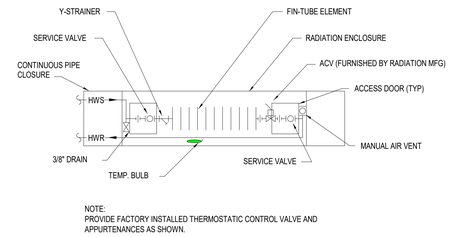


BASE MOUNTED END-SUCTION PUMP DETAIL



CHEMICAL FEEDER DETAIL

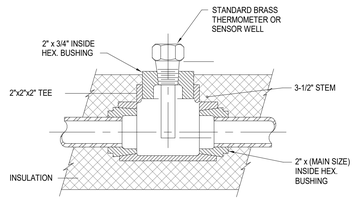
NOTE: COORDINATE WITH FLOOR PLANS



NOTE:
PROVIDE FACTORY INSTALLED THERMOSTATIC CONTROL VALVE AND APPURTENANCES AS SHOWN.

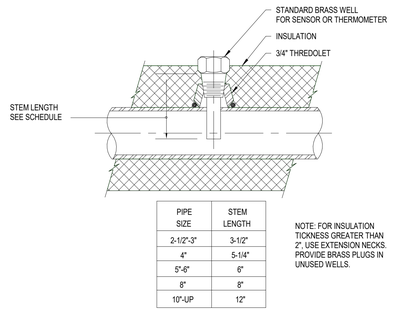
HW BASEBOARD RADIATOR W/T-STAT PIPING DETAIL

NOTE: COORDINATE WITH MANUFACTURER'S INSTALLATION GUIDE



SENSOR/THERMOMETER WELL INSTALLATION DETAIL

NOTE: FOR PIPE SIZES 1" THRU 2"

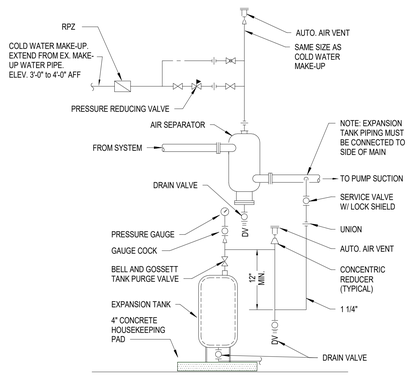


PIPE SIZE	STEM LENGTH
2-1/2"-3"	3-1/2"
4"	5-1/4"
5"-6"	6"
8"	8"
10"-UP	12"

NOTE: FOR INSULATION TICKNESS GREATER THAN 2", USE EXTENSION NECKS. PROVIDE BRASS PLUGS IN UNUSED WELLS.

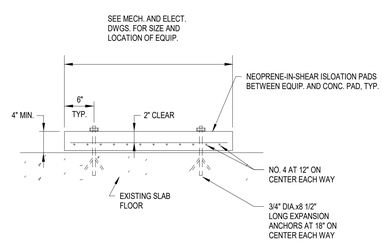
SENSOR/THERMOMETER WELL INSTALLATION DETAIL

NOTE: FOR PIPE SIZES 2-1/2" AND ABOVE



EXPANSION TANK PIPING DETAIL

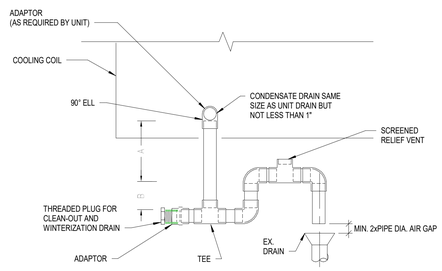
NOTE: COORDINATE WITH FLOOR PLANS



DESIGNER NOTE: CHECK WITH STRUCTURAL ENG. FOR PROPER SIZING. USE ONLY FOR LARGE BOILERS AND CHILLERS.

HEAVY EQUIPMENT PAD ON EXISTING SLAB DETAIL

NOTE: COORDINATE WITH STRUCTURAL DRAWINGS



"A" = SUPPLY FAN TOTAL STATIC PRESSURE (IN INCHES) + 1" MIN.
"B" = 1/2 x "A" (IN INCHES)

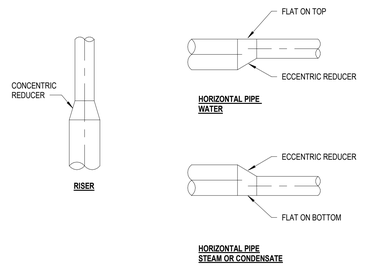
REMARKS:

1. SIZE DRAIN PIPE TO ACCOMMODATE PEAK COIL CONDENSATE FLOW, BUT DRAIN PIPE SIZE SHALL BE NO LESS THAN 1".

2. DRAIN PANS AND CURBS MUST BE HIGH ENOUGH TO OVERCOME NEGATIVE SYSTEM PRESSURE.

COOLING COIL CONDENSATE DRAIN DETAIL

NOTE: APPLIED TO DRAW-THROUGH COIL



PIPE REDUCER INSTALLATION DETAIL

NOTE: COORDINATE WITH FLOOR PLANS

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Project No.: 2107-17.WR

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COMMONWEALTH OF VIRGINIA
ERIC M. HALEY
Lic. No. 048838
01/26/2024
PROFESSIONAL ENGINEER

PROJECT NUMBER
2.220318.0
PC: 236-B2236-038

SCHERER HALL RENOVATION

923 W FRANKLIN ST,
RICHMOND, VA 23284

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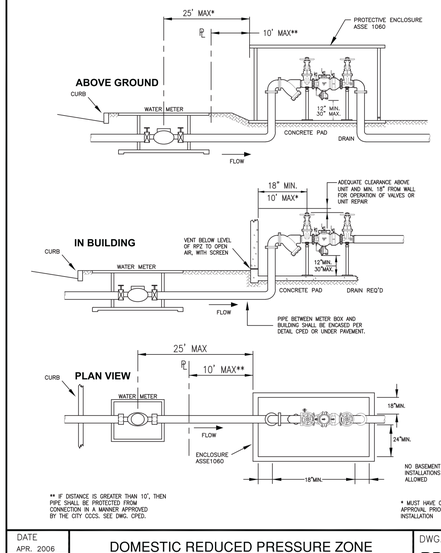
DETAILS
M401

CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES



DATE	DOMESTIC REDUCED PRESSURE ZONE ASSEMBLIES - ALTERNATE INSTALLATIONS*	DWG. NO.
APR. 2006		RPZ-A
REVISIONS SEP. 2014		

CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES

TYPICAL INSTALLATION PROCEDURES

1. REFER TO ALL APPLICABLE CODES AND MANUALS DURING DESIGN.

2. THE BFP ASSEMBLY'S SHUTOFF VALVES SHALL BE THE ONES APPROVED BY THE MANUFACTURER FOR THAT BFP ASSEMBLY.

3. SUBMIT PLANS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER TO CROSS CONNECTION DEPT.

4. APPLY FOR A PLUMBING PERMIT FROM BUILDING INSPECTIONS OFFICE.

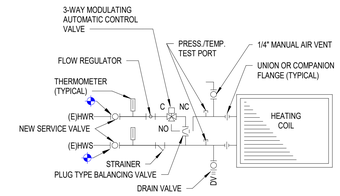
5. APPLY FOR A WATER SERVICE PERMIT FROM DPU DEVELOPMENT OFFICE.

6. INSTALL PIPING AND BACKFLOW PREVENTER, INCLUDING TEST COCKS ADAPTERS – (4) STRAIGHT HOSE ADAPTER FITTINGS, 1/4" S.A.E. 45° FLARE TUBE X 1/4" NPT, FOR CONNECTION TO TEST DEVICE. BACKFLOW PREVENTION DEVICES WILL BE INSTALLED OUTSIDE (OR INSIDE OF A BUILDING WITH APPROVAL OF THE CROSS CONNECTION CONTROL SPECIALIST). REFER TO PLANS FOR TYPICAL INSTALLATION DETAILS. NO TAP–INS WILL BE PERMITTED FOR ANY PURPOSE UPSTREAM OF THE BACKFLOW PREVENTION DEVICE.

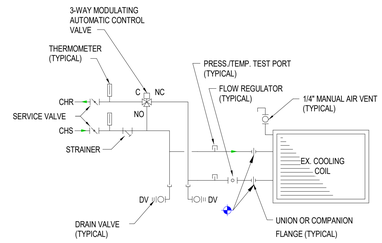
7. CALL CROSS CONNECTION CONTROL SPECIALIST FOR INSPECTION OF THE BACKFLOW PREVENTER. INSPECTION AND APPROVAL IS REQUIRED BEFORE ANY METER WILL BE INSTALLED. [804–646–8544]

8. CALL PLUMBING INSPECTOR FOR INSPECTION OF ALL PIPING AND PLUMBING WORK DOWNSTREAM OF THE METER. CALL MECHANICAL INSPECTOR FOR INSPECTION OF ALL WORK DOWNSTREAM OF THE DETECTOR CHECK METER.

DATE	TYPICAL INSTALLATION PROCEDURES	DWG. NO.
APR. 2006		RPZ-IP
REVISIONS SEP. 2014		



HW COIL WITH 3-W CONTROL VALVE PIPING DETAIL - FCU UNIT



EX. AHU CHW COIL WITH 3-WAY VALVE

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ABBREVIATIONS

Electrical Abbreviation	Electrical Definitions
1P	SINGLE POLE
1PH	SINGLE PHASE
2P	TWO POLE
3P	THREE POLE
3PH	THREE PHASE
A	AMPERES
A/V	AUDIO / VISUAL
AFCI	ARC-FAULT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
C	CONDUIT
C/T	CURRENT TRANSFORMER
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CU	COPPER
DEMO	DEMOLITION
DISC	DISCONNECT
ELEC	ELECTRICAL
ELTG	EXTERIOR LIGHTING
EM	EMERGENCY
EQ	EQUIPMENT
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FT	FEET
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
HP	HORSEPOWER
IAW	IN ACCORDANCE WITH
ILTG	INTERIOR LIGHTING
IN	INCHES
KCMIL	KILO CIRCULAR MILLS
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MCC	MOTOR CONTROL CENTER
MISC	MISCELLANEOUS
MTD	MOUNTED
MTR	MOTOR
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO	NUMBER
P/BD	PANELBOARD
PR	PRESENT TO REMAIN
PRI	PRIMARY
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCPT	RECEPTACLE
REL	RELOCATED
SEC	SECURITY
SW	SWITCH
SWBD	SWITCHBOARD
TELECOM	TELECOMMUNICATIONS
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPRESSOR
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTAGE
W/	WITH
XFER	TRANSFER
XFMR	TRANSFORMER

POWER LEGEND

DESCRIPTION
DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT +18" AFF
BRANCH CIRCUIT HOMERUN, HATCH MARKS INDICATE TYPE AND NUMBER OF CONDUCTORS, DASHED LINES INDICATE UNDER FLOOR/GROUND ROUTING, PROVIDE 3#12 IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED. INDICATES PHASE CONDUCTOR INDICATES NEUTRAL CONDUCTOR INDICATES GROUNDING CONDUCTOR
NON-FUSED DISCONNECT SWITCH
RECESSED DUPLEX FLOOR BOX
RECESSED QUAD FLOOR BOX
PANELBOARD, SURFACE MOUNT
PANELBOARD, RECESS MOUNT

LIGHTING LEGEND

VARIES	DESCRIPTION
	LIGHT FIXTURE
	EXIT SIGN, SHADED SIDE INDICATES FACE(S) OF SIGN, DIRECTIONAL CHEVRONS AS INDICATED
	EXIT SIGN WITH DUAL EMERGENCY LIGHTING HEADS, SHADED SIDE INDICATES FACE(S) OF SIGN, DIRECTIONAL CHEVRONS AS INDICATED
	EGRESS EXIT LIGHT WITH BATTERY PACK, WALL MOUNT +90" AFF
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, CEILING MOUNT, OMNI-DIRECTIONAL AND DIRECTIONAL
	LIGHT SWITCH, LOW VOLTAGE, MOUNT +46" AFF

FIRE ALARM LEGEND

DESCRIPTION
FIRE ALARM VISIBLE NOTIFICATION APPLIANCE, MOUNT STROBE LENS NOT LESS THAN +80" AFF AND NOT MORE THAN +96" AFF. STROBE CANDELA RATING AS INDICATED
FIRE ALARM VISIBLE/AUDIBLE NOTIFICATION APPLIANCE, MOUNT STROBE LENS NOT LESS THAN +80" AFF AND NOT MORE THAN +96" AFF. STROBE CANDELA RATING AS INDICATED
MANUAL PULL STATION, MOUNT +46" AFF
SMOKE DETECTOR, CEILING MOUNT

GENERAL DEMOLITION NOTES

1. DEMOLITION DRAWINGS ARE PROVIDED AS REFERENCE ONLY. DEMOLITION DRAWINGS ARE BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND EXISTING DRAWINGS.
2. VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH EXISTING FIELD CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
3. CLEAN AND REPAIR ALL EQUIPMENT INDICATED FOR REUSE OR SALVAGE.
4. DISPOSE OF, IN A LEGAL MANNER, ALL MATERIALS INDICATED FOR REMOVAL AND NOT INDICATED FOR REUSE OR SALVAGE.
5. MAINTAIN CONTINUITY OF EXISTING BRANCH CIRCUITS AND FEEDERS NOT INDICATED FOR REMOVAL BUT MAY BE DISTURBED BY THE WORK. REROUTE CIRCUITS AS REQUIRED DUE TO THE WORK.
6. EXISTING CONDUIT MAY BE ABANDONED IN THE WALLS, FLOOR SLAB, AND BELOW GRADE ONLY. REMOVE CONDUITS TO THE SURFACE OF THE WALL/FLOOR AND PATCH.
7. REMOVE UNUSED CABLING AND CONDUCTORS ALL THE WAY BACK TO THE SOURCE.
8. SUPPORT ALL EXISTING RECESSED FLUORESCENT 2X2 AND 2X4 LIGHT FIXTURES INDEPENDENTLY OF SUSPENDED CEILING COMPONENTS PRIOR TO REMOVAL OF FINISHED CEILINGS. PROTECT LIGHT FIXTURES FROM DAMAGE DURING CONSTRUCTION. CLEAN AND RE-LAMP AS REQUIRED.
9. DISCONNECT, REMOVE, AND STORE ALL EXISTING RECESSED DOWNLIGHT FIXTURES MOUNTED WITHIN GYPSUM CORRIDOR CEILINGS, DURING DEMOLITION. REINSTALL IN SAME LOCATIONS WITHIN NEW CEILINGS. PROVIDE TEMPORARY LIGHTING DURING DEMOLITION IN CORRIDORS AS REQUIRED.

SHEET LAYOUT

	6	5	4	3	2	1
E	6E	5E	4E	3E	2E	1E
D	6D	5D	4D	3D	2D	1D
C	6C	5C	4C	3C	2C	1C
B	6B	5B	4B	3B	2B	1B
A	6A	5A	4A	3A	2A	1A

SHEET NUMBERS - STANDARD

E001

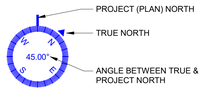
DISCIPLINE
E = ELECTRICAL

SHEET TYPE
0 = GENERAL / RISERS
1 = FLOOR PLAN
2 = SECTIONS
3 = ELEVATIONS & DETAILS
4 = ENLARGED PLANS
5 = DETAILS / DIAGRAMS
6 = SCHEDULES

LEVEL/SHEET SEQUENCE

VIEW TYPE
0 = DEMOLITION PLANS
1 = LIGHTING
2 = POWER
3 = MECHANICAL
4 = TELECOM / SYSTEMS
5 = FIRE ALARAM
6 = PHOTOMETRICS

PROJECT NORTH, TRUE NORTH



RATED WALL LEGEND

SYMBOL	DESCRIPTION
	NON-RATED PARTITION
	NON-RATED SMOKE RESISTIVE PARTITION
	1 HOUR FIRE BARRIER
	1 HOUR SMOKE COMPARTMENT BARRIER
	2 HOUR FIRE BARRIER
	2 HOUR SMOKE COMPARTMENT BARRIER
	3 HOUR FIRE BARRIER
	3 HOUR SMOKE COMPARTMENT BARRIER

PROJECT INFORMATION

1. PROJECT DESCRIPTION:
   SELECTIVE DEMOLITION OF INTERIOR WALLS AND FLOORS TO ACCOMMODATE STRUCTURAL AND MECHANICAL RENOVATION OF THE ROUGHLY 17,000 SF BUILDING. ELECTRICAL SYSTEMS UPGRADE WILL BE LIMITED TO WHAT IS REQUIRED AS PART OF THE MECHANICAL UPGRADE.
2. APPLICABLE CODES:
   VIRGINIA UNIFORM STATEWIDE BUILDING CODE: VUSBC, 2018
   CONSTRUCTION AND PROFESSIONAL SERVICES MANUAL - CHAPTER 4 ONLY: CPSM, 2022, REV 0
   VCU HIGHER EDUCATION CAPITAL OUTLAY (HECO) MANUAL, 2014
   NATIONAL ELECTRICAL CODE: NFPA 70, 2017
   AMERICANS WITH DISABILITIES ACT: ASAD, SEPTEMBER 15, 2010
   NATIONAL FIRE ALARM AND SIGNALING CODE: NFPA 72, 2016
   VIRGINIA ENERGY CONSERVATION CODE (VECC): 2018
   VEES: INTERNATIONAL GREEN CONSTRUCTION CODE (IgCC) 2018, MODIFIED BY CPSM APPENDIX V

1.	YEAR CONSTRUCTED:	1989
2.	EXISTING USE GROUP:	B
3.	CONSTRUCTION CLASSIFICATION:	3B (PROTECTED)
4.	NUMBER OF STORIES:	5
5.	BUILDING HEIGHT:	59'-4"
6.	TOTAL BUILDING AREA:	17,000 SQFT
7.	PROJECT:	NOT IN A FLOOD PLAIN
8.	FIRE RESISTANCE RATING:	NO FIRE PENETRATIONS
9.	OCCUPANCY:	147
10.	CHANGE OF USE:	NO

ENGINEER OF RECORD

THOMAS K. FARLEIGH, PE
TFARLEIGH@BASKERVILL.COM
(804)343-1010
1051 E. CARY STREET, SUITE 200
RICHMOND, VA 23219

GENERAL NOTES

1. PROVIDE LABOR, MATERIAL, AND OTHER SERVICES AS MAY BE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
2. NOTIFY THE ARCHITECT/ENGINEER AND RESOLVE ANY ISSUES EXPERIENCED DURING THE COURSE OF THE WORK PRIOR TO EXECUTION OF THE WORK.
3. SHOP DRAWINGS MUST BE APPROVED BY ENGINEER PRIOR TO PURCHASE. IF A SUBSTITUTION IS PROPOSED, BE PREPARED TO PROVIDE SAMPLES FOR EVALUATION.
4. PROVIDE MATERIAL WITHIN ONE YEAR OF MANUFACTURE, BEARING A U.L. LABEL, AND LISTED FOR ITS INSTALLED APPLICATION.
5. PROVIDE "AS-BUILT" DRAWINGS TO THE OWNER AT CONTRACT CLOSEOUT.
6. PROVIDE MAJOR COMPONENTS OF THE ELECTRICAL SYSTEM BY THE SAME MANUFACTURER.
7. IN FINISHED SPACES: FLUSH MOUNT LIGHT SWITCHES, RECEPTACLES, AND TELECOMMUNICATIONS OUTLETS, ROUTE RACEWAYS CONCEALED.
8. PROVIDE WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
9. USE MOUNTING HEIGHTS INDICATED ON THE LEGEND EXCEPT WHERE INDICATED ON THE DRAWINGS. MOUNTING HEIGHTS ARE MEASURED FROM THE MIDDLE OF WALL MOUNTED DEVICES AND FROM THE BOTTOM OF PENDENT MOUNTED DEVICES.
10. ASSEMBLE, HANG, AND CONNECT LIGHTING FIXTURES FURNISHED COMPLETE WITH SOCKETS, TRIM HANGERS, SUPPORTS, ETC, AS REQUIRED FOR A COMPLETE INSTALLATION. MOUNT LIGHT FIXTURES SUPPORTED INDEPENDENTLY OF SUSPENDED CEILING COMPONENTS.
11. PROVIDE MOTOR OVERLOAD DEVICES IN STARTERS BASED ON NAMEPLATE RATING ON THE MOTORS BEING INSTALLED.
12. PROVIDE "HACR" TYPE CIRCUIT BREAKERS FOR CIRCUITS THAT SERVE HEATING, AIR CONDITIONING, OR REFRIGERATION EQUIPMENT.
13. PROVIDE SPLICES IN OUTLET OR JUNCTION BOXES ONLY.
14. GUARANTEE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER OWNER ACCEPTANCE.
15. PERFORM ALL WORK IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (2017), VIRGINIA UNIFORM STATEWIDE BUILDING CODE (2018), ADA STANDARDS FOR ACCESSIBLE DESIGN (2018), AND CONSTRUCTION AND PROFESSIONAL SERVICES MANUAL, REV 0 (2018).
16. CONTRACTOR SHALL COMPLY WITH AND MAINTAIN A COPY OF VIRGINIA STATE FIRE PROTECTION CODE (2018) AND NFPA 241-2000 "STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS" ON SITE.
17. NOTIFY CONSTRUCTION MANAGER, OWNER , FIRE DEPARTMENT, AND AUTHORITY HAVING JURISDICTION A MINIMUM OF SEVEN DAYS PRIOR TO ANY FIRE ALARM OR SPRINKLER SYSTEM SERVICE INTERRUPTION.
18. CONTRACTOR SHALL DISCONNET AND REMOVE CONDUITS IN CONFLICT WITH STRUCTURAL BRACING. REMOVE CONDUIT IN CONFLICT AND DISCONNECT WIRE FROM PANEL, AND PULL BACK PAST AREA OF WORK. ONCE STRUCTURAL WORK IS COMPLETE, REPLACE CONDUIT AND WIRE AND RECONNECT TO PANEL.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	VOLTAGE	LAMP		MOUNTING	COMMENTS
				WATTS	TYPE		
A	MATCH BUILDING STANDARD	MATCH BUILDING STANDARD	120 V	2 W	LED	CEILING	NEW CEILING MOUNTED EXIT SIGN WITH BATTERY BACK-UP
B	MATCH BUILDING STANDARD	MATCH BUILDING STANDARD	120 V	0 W	LED	RECESSED	NEW RECESSED 2X2 LED
C	LITHONIA	CSS L48 4000LM MVOLT 35K 80CRI	120 V	36 W	LED	SURFACE	NEW WALL MOUNTED LED STRIP
EM	MATCH BUILDING STANDARD	MATCH BUILDING STANDARD	120 V	3 W	LED	WALL	NEW EMERGENCY WALL PACK

ELECTRICAL DRAWING LIST

SHEET NO	SHEET TITLE	REV NO	REV DATE
E001	LEGEND, FIXTURE SCHEDULE & GENERAL NOTES		
E002	SINGLE-LINE DIAGRAM & PANEL SCHEDULES		
E100	BASEMENT DEMOLITION & NEW WORK PLANS		
E101	1ST FLOOR DEMOLITION & NEW WORK PLANS		
E102	2ND FLOOR DEMOLITION & NEW WORK PLANS		
E103	3RD FLOOR DEMOLITION & NEW WORK PLANS		
E104	4TH FLOOR DEMOLITION & NEW WORK PLANS		
E105	5TH FLOOR DEMOLITION & NEW WORK PLANS		

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COMMONWEALTH OF VIRGINIA
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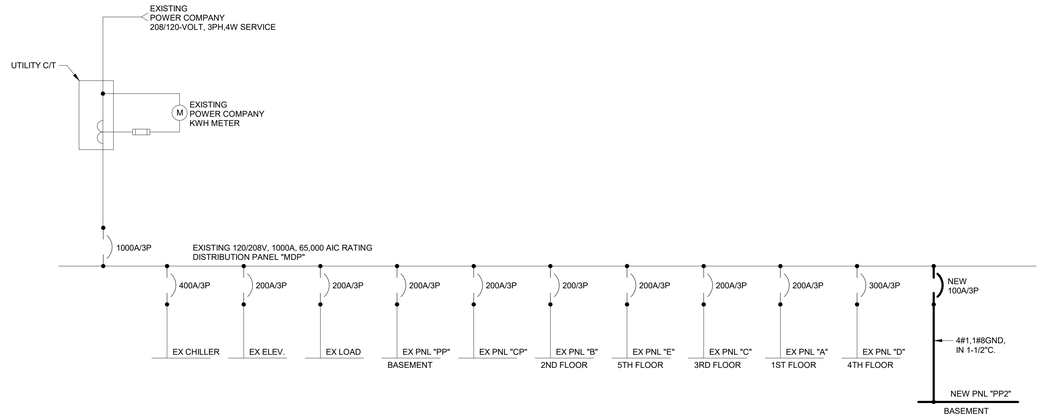
LEGEND, FIXTURE SCHEDULE & GENERAL NOTES

E001



EXISTING SINGLE-LINE DIAGRAM

PANELBOARD: PP2

LOCATION: MECH. RM. B-2
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18,000
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				2.5	0.0								2
3	PCHWP-1, BASEMENT	35 A	3			2.5	0.0			3	35 A	PCHWP-2 (REDUNDANT), BASEMENT	4
5								2.5	0.0				6
7	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	8
9	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	10
11	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	12
13	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	14
15	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	16
17	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	18
19	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	20
21	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	22
23	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	24
		Total Load:		2.5 kVA		2.5 kVA		2.5 kVA					
		Total Amps:		21 A		21 A		21 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	7500 VA	100.00%	7500 VA		
				Total Conn. Load:	7.5 kVA
				Total Est. Demand:	7.5 kVA
				Total Conn. Current:	21 A
				Total Est. Demand...	21 A

Notes:

DIST. PANEL: MDP

LOCATION: STORAGE B-4
SUPPLY FROM: C/T
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 65,000
MAINS TYPE: MAIN SWITCH
MAINS RATING: 1000 A
MCB RATING: 1000 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				32.0	--					1	--	UNAVAILABLE SPACE	2
3	EX CHILLER	400 A	3			32.0	--			1	--	UNAVAILABLE SPACE	4
5								32.0	--	1	--	UNAVAILABLE SPACE	6
7				15.0	7.0								8
9	EX ELEVATOR	200 A	3			15.0	7.0			3	200 A	EX LOAD	10
11								15.0	7.0				12
13				9.0	9.0								14
15	EX PNL "PP", BASEMENT	200 A	3			8.9	8.9			3	200 A	EX PNL "CP"	16
17								8.9	8.9				18
19				7.0	9.0								20
21	EX PNL "B", 2ND FL	200 A	3			6.9	8.9			3	200 A	EX PNL "E", 5TH FL	22
23								6.9	8.9				24
25				7.0	8.0								26
27	EX PNL "C", 3RD FL	200 A	3			6.9	8.0			3	200 A	EX PNL "A", 1ST FL	28
29								6.9	8.0				30
31				7.0	2.5								32
33	EX PNL "D", 4TH FL	200 A	3			6.9	2.5			3	100 A	NEW PNL "PP2", BASEMENT	34
35								6.9	2.5				36
37	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	38
39	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	40
41	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	42
		Total Load:		112.5 kVA		111.9 kVA		111.9 kVA					
		Total Amps:		938 A		933 A		933 A					

Legend:

Notes:
REFER TO LOAD CALCULATIONS BELOW

**EXISTING LOADS BASED ON DATA FROM 1993 DRAWINGS. FIELD MEASURE CONNECTED LOAD WHEN BUILDING IS OCCUPIED

LOAD CALCULATION (MDP)

EX LIGHTING LOAD:	51.4 KVA
EX RECEPTACLE LOAD:	83.0 KVA
EX ELEVATOR LOAD:	63.0 KVA
EX CHILLER LOAD:	104.8 KVA
EX HEATING LOAD:	1.8 KVA
EX PUMP LOAD:	10.8
EX AIR COMPRESSOR LOAD:	4.0 KVA
EX FAN COIL UNIT LOAD:	28.8 KVA
EX EXH. FAN LOAD:	0.7 KVA
TOTAL EXISTING LOAD:	= 348.3 KVA
NEW PUMP LOAD PCHWP-1 (FROM PANEL "PP2"); (PCHWP-2 IS REDUNDANT)	7.5 KVA
	= 7.5 KVA
TOTAL EST. DEMAND LOAD:	= 355.8KVA
TOTAL EST. DEMAND CURRENT:	= 985.5 A

VOLTAGE DROP & FAULT CURRENT CALCULATION

CIRCUIT DESCRIPTION		FEEDER OR				LOAD	DISTANCE		PHASE		NEUTRAL		GROUND		CONDUIT		Vdrop CALCULATION			FAULT CURRENT CALCULATION	
FROM	TO	BRANCH	CU or AL	VOLTAGE	PHASE	(KVA)	(FEET)	# OF SETS	NUMBER	SIZE	NUMBER	SIZE	NUMBER	SIZE	SIZE	TYPE	ALLOWED	CALCULATED	PERCENT	START	END
MDP	PP2	FEEDER	COPPER	208	3	12	70	1	3	1	1	1	1	8	1-1/2"	EMT	4.16	0.62	0.30%	65000	10492

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SINGLE-LINE DIAGRAM & PANEL SCHEDULES

E002

KEYNOTES

26.2 PROVIDE NEW 120/208V, 3PH, 4W, 100A MCB PANEL. COORDINATE EXACT LOCATION WITH OWNER IN FIELD AND MAINTAIN NEC 110.26 CLEARANCE REQUIREMENTS. INSTALL NEW FEEDER IN EXPOSED CONDUIT TIGHT TO STRUCTURE. AVOID OBSTRUCTED PATHS AND STRUCTURAL SUPPORTS.

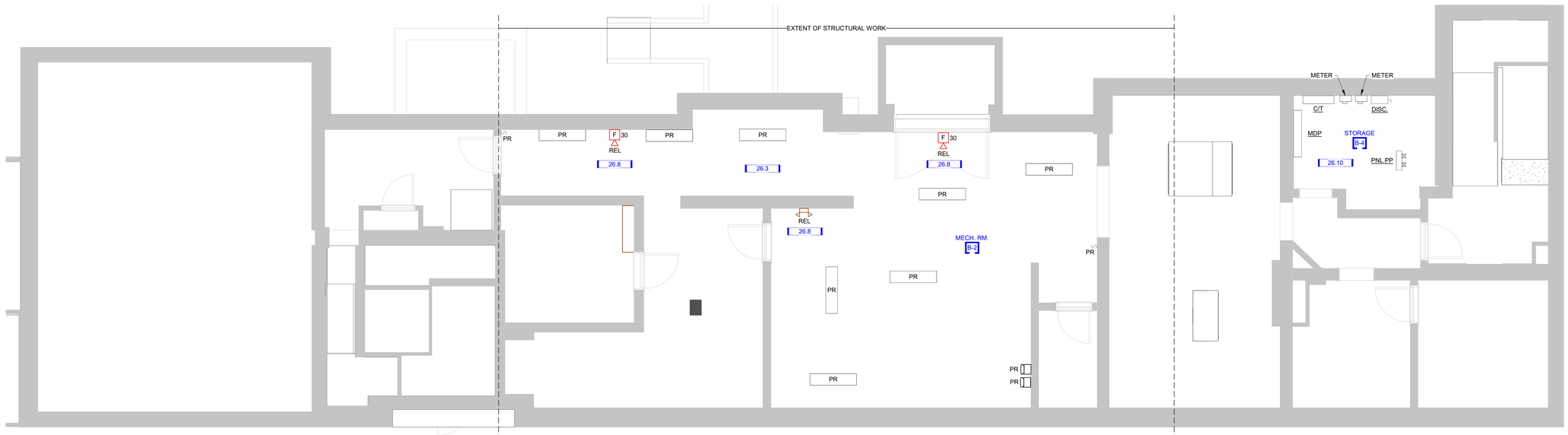
26.3 AREA OF WORK WITH EXISTING CONDUIT IN CONFLICT WITH STRUCTURAL BRACING. DISCONNECT AND REMOVE CONDUIT ON THE BOTTOM OF JOISTS. DISCONNECT WIRE FROM PANEL AND PULL BACK TO AN ACCESSIBLE AREA. OUT OF AREA OF WORK. ONCE STRUCTURAL WORK IS COMPLETE, REPLACE CONDUIT AND RECONNECT WIRING.

26.7 PCHWP-1 & PCHWP-2: 208V, 3PH, MCA = 20.9, MOCP = 30. DISCONNECTS AND LOCATION OF DISCONNECTS PROVIDED BY MECHANICAL CONTRACTOR. MAINTAIN 36" CLEARANCE IN FRONT OF SWITCH. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

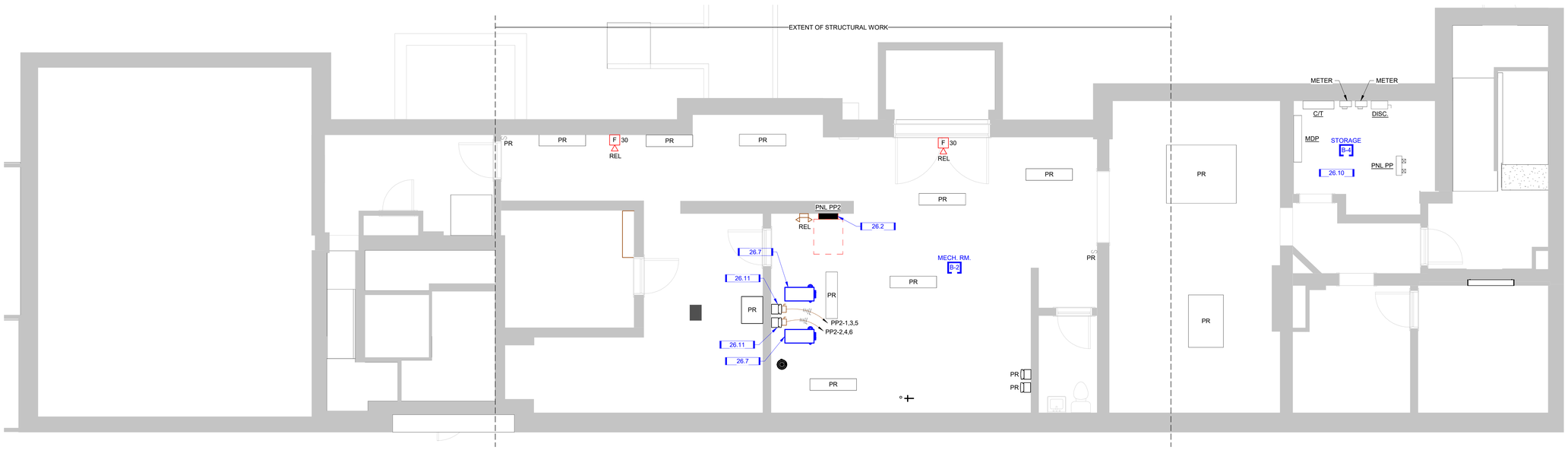
26.8 WHERE EXISTING DEVICES ARE TO BE REMOVED DUE TO STRUCTURAL BRACING. DISCONNECT AND REMOVE ASSOCIATED CONDUIT, BOXES, AND WIRE PAST AREA OF WORK. DEVICES SHALL BE RECONNECTED AFTER STRUCTURAL SCOPE HAS BEEN COMPLETED.

26.10 ALL ELECTRICAL EQUIPMENT IN THIS ROOM IS EXISTING TO REMAIN.

26.11 PCHWP VFD. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.



6C BASEMENT DEMOLITION PLAN
E100 1/4" = 1'-0"



6A BASEMENT NEW WORK PLAN
E100 1/4" = 1'-0"

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BASEMENT DEMOLITION & NEW WORK PLANS

E100

GENERAL NOTES

1. EXISTING LIGHT FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM CEILING GRID AND SHALL REMAIN IN PLACE DURING DEMOLITION. UON. CONTRACTOR SHALL PROTECT FIXTURES FROM PHYSICAL DAMAGE WHEREVER POSSIBLE. PROVIDE TEMPORARY LIGHTING IN AREAS LIGHTING CIRCUITS NEED TO BE INTERRUPTED.
2. EXISTING RECESSED DOWNLIGHTS TO BE DISCONNECTED, REMOVED, AND THEN PUT BACK IN PLACE AND RECONNECTED WITHIN NEW GYPSUM CEILINGS. PROVIDE TEMPORARY LIGHTING WHERE FIXTURES ARE REMOVED.

KEYNOTES

26.1	IN THIS AREA, PULL BACK WIRING IN EXISTING HORIZONTAL CONDUITS IN CEILING TO POINT OUTSIDE AREA OF STRUCTURAL WORK. COORDINATE LIMITS OF CONSTRUCTION PRIOR TO PULLING WIRE.
26.5	DISCONNECT AND REMOVE MECHANICAL UNIT; WIRING AND CONDUIT TO REMAIN. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
26.6	NEW MECHANICAL UNIT. CONNECT TO EXISTING WIRING PREVIOUSLY FEEDING DEMOLISHED UNIT IN SAME LOCATION. CONTRACTOR TO VERIFY EXISTING WIRING HAS CAPACITY FOR NEW UNIT PRIOR TO INSTALLATION. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
26.9	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THE AREA, CONNECT ON THE LINE SIDE AHEAD OF SWITCH/CONTROL PER NEC 700.12(F).
26.12	CONNECT TO EXISTING LIGHTING CIRCUIT / CONTROL SERVING THE AREA. CIRCUIT NOT TO EXCEED 1920W.
26.13	CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THE AREA. CIRCUIT NOT TO EXCEED 1920W.

6C E101 1ST FLOOR DEMOLITION PLAN
1/4" = 1'-0"

6A E101 1ST FLOOR NEW WORK PLAN
1/4" = 1'-0"

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1ST FLOOR DEMOLITION & NEW WORK PLANS

E101

GENERAL NOTES

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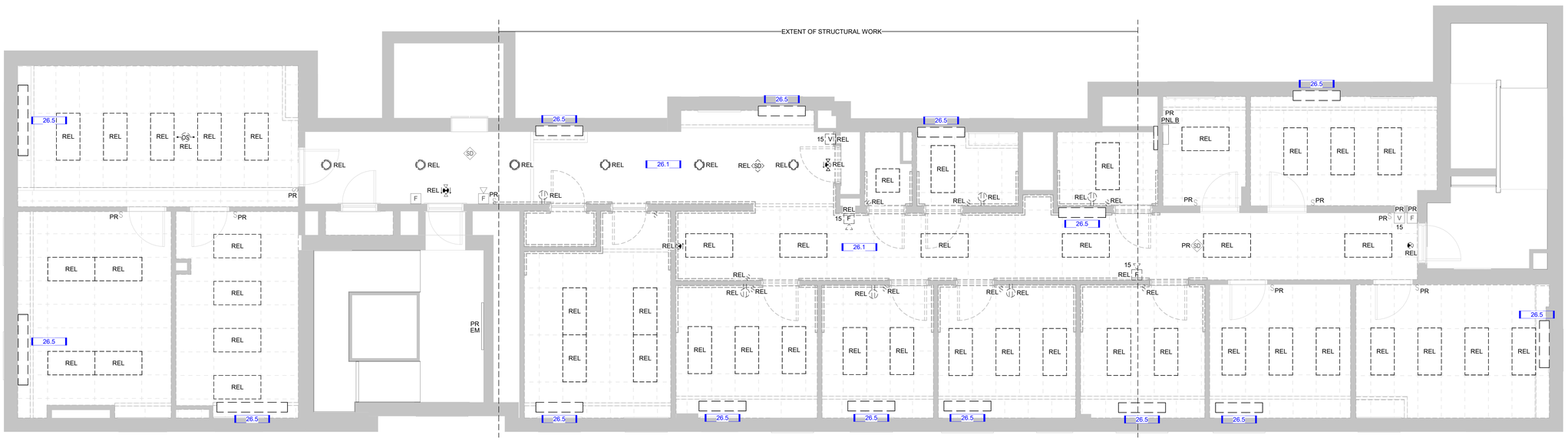
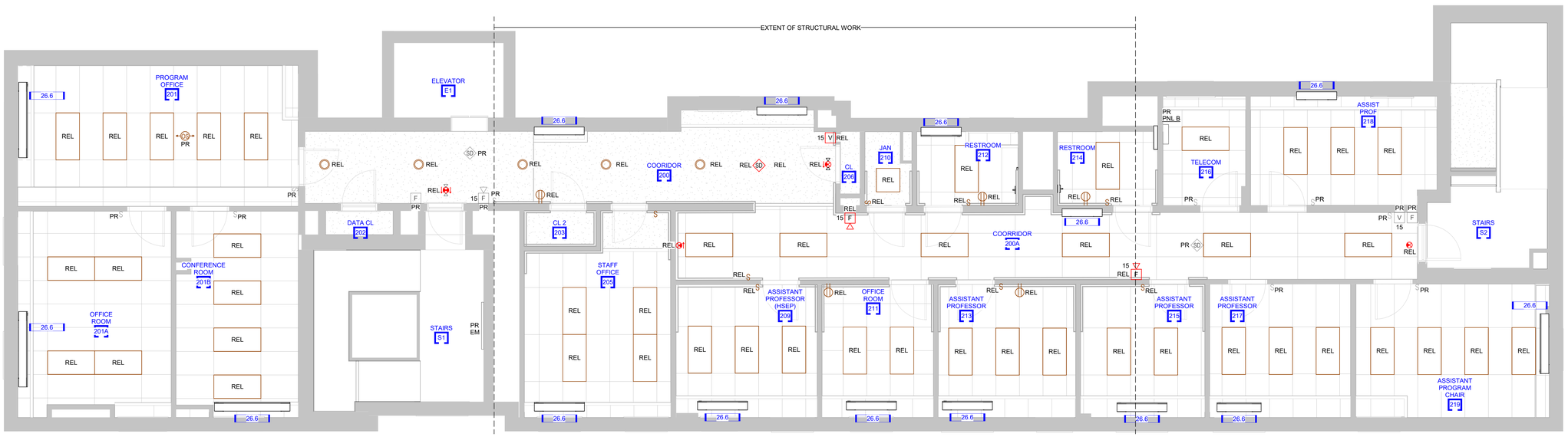


6C E102 2ND FLOOR DEMOLITION PLAN
1/4" = 1'-0"



6A E102 2ND FLOOR NEW WORK PLAN
1/4" = 1'-0"

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2ND FLOOR DEMOLITION & NEW WORK PLANS

E102

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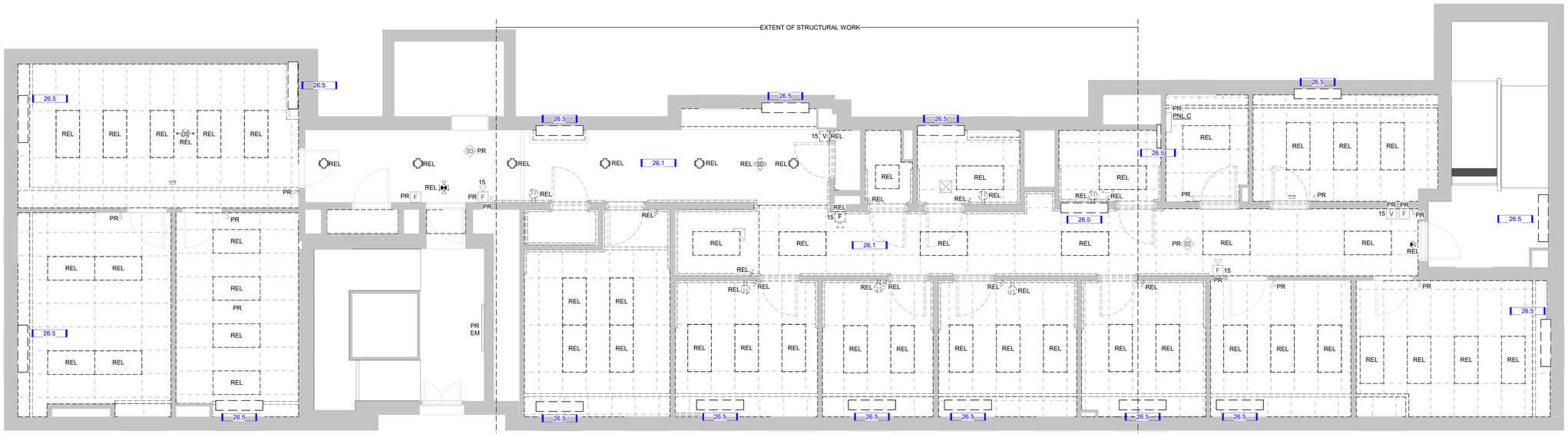
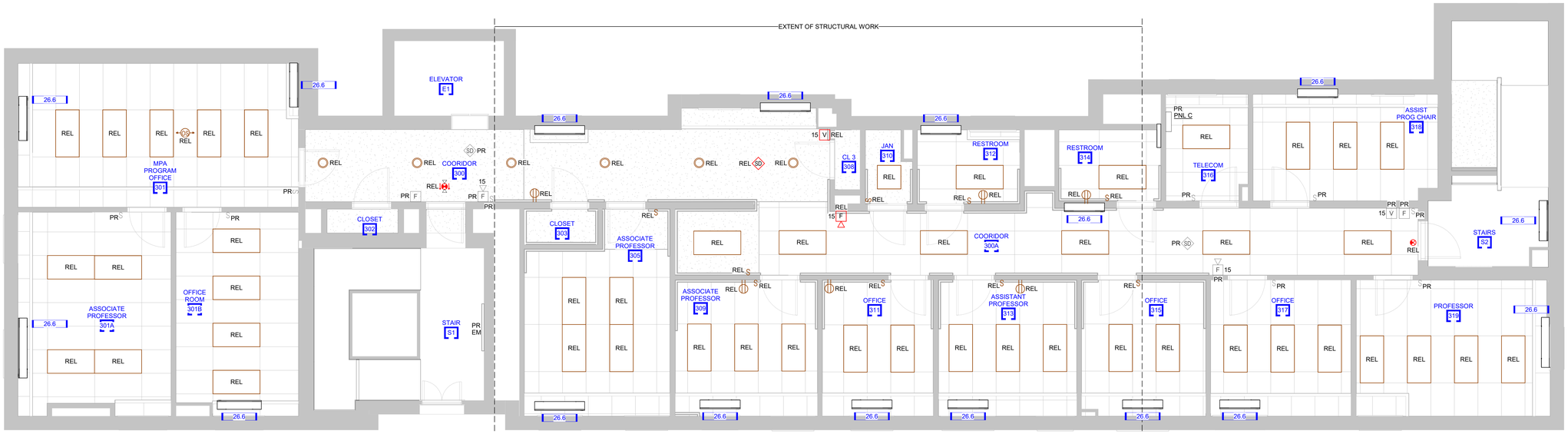


6C E103 3RD FLOOR DEMOLITION PLAN
1/4" = 1'-0"



6A E103 3RD FLOOR NEW WORK PLAN
1/4" = 1'-0"

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3RD FLOOR DEMOLITION & NEW WORK PLANS

E103

GENERAL NOTES

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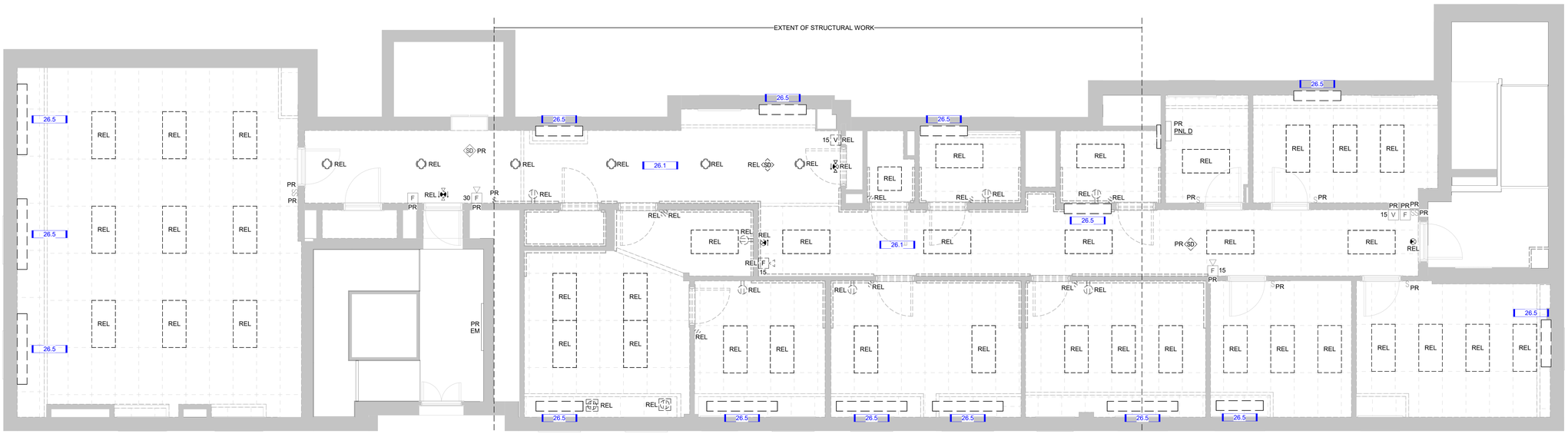
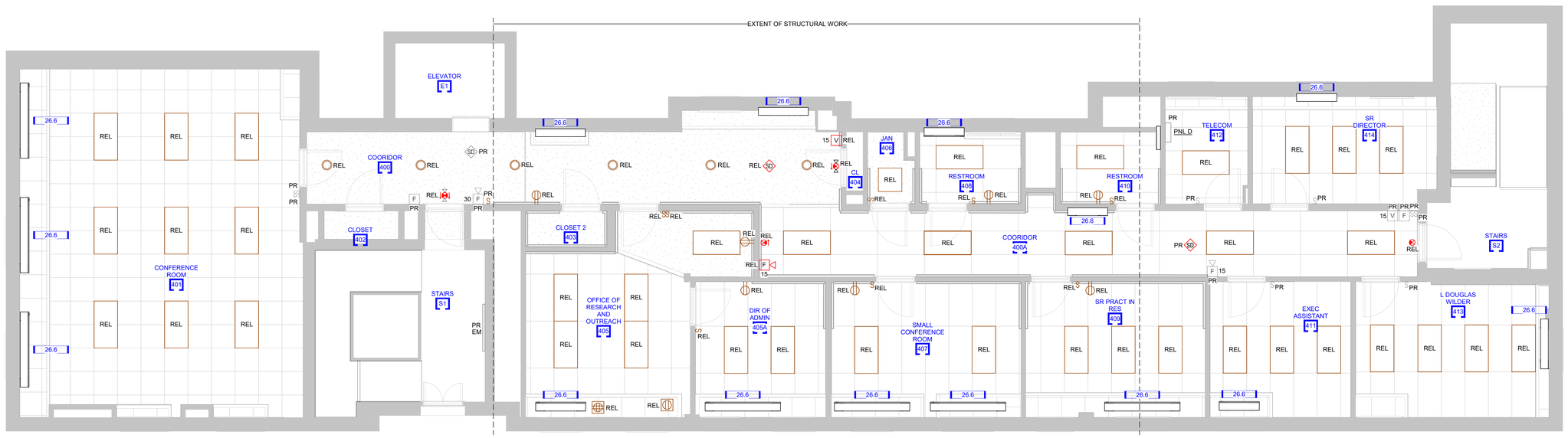


6C 4TH FLOOR DEMOLITION PLAN
E104 1/4" = 1'-0"



6A 4TH FLOOR NEW WORK PLAN
E104 1/4" = 1'-0"

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4TH FLOOR DEMOLITION & NEW WORK PLANS

E104

GENERAL NOTES

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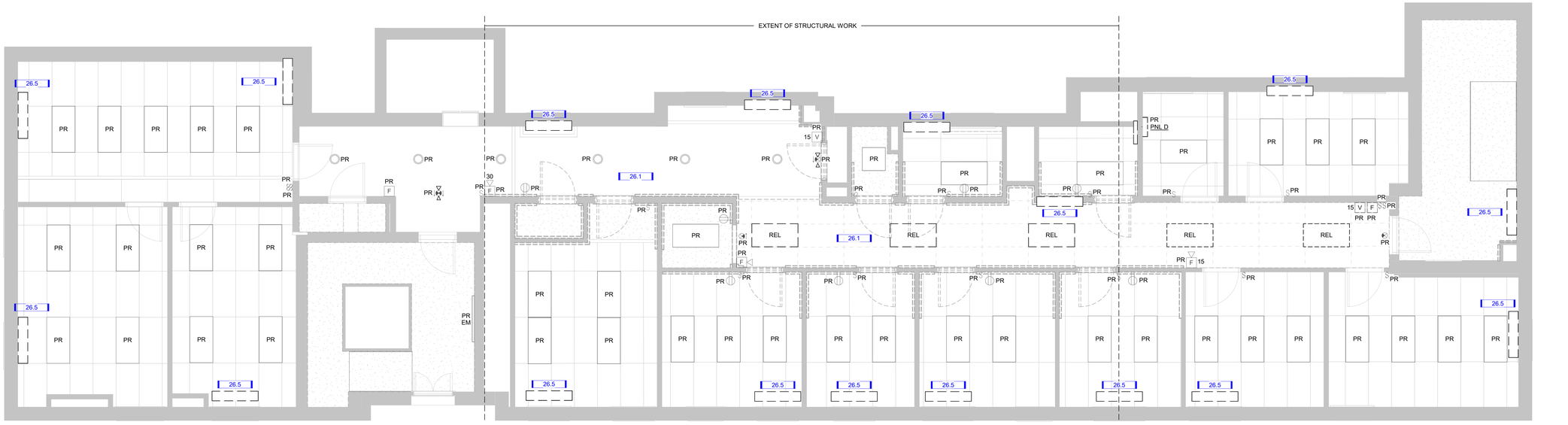
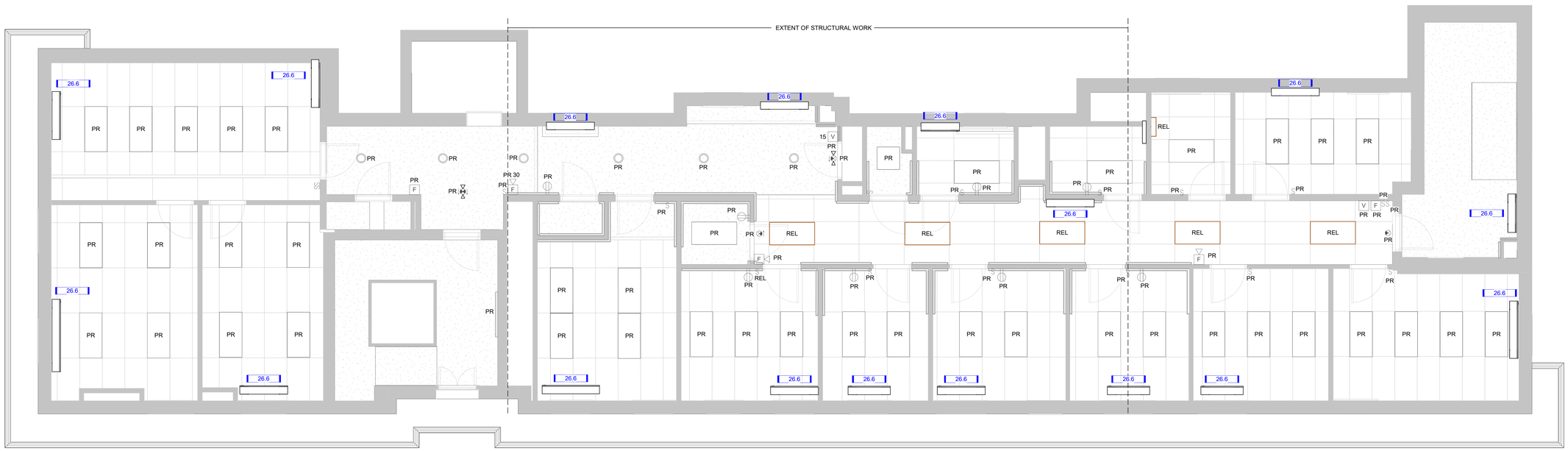


6C 5TH FLOOR DEMOLITION PLAN
E105 1/4" = 1'-0"



6A 5TH FLOOR NEW WORK PLAN
E105 1/4" = 1'-0"

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5TH FLOOR DEMOLITION & NEW WORK PLANS

E105