ARCHITECT	**GOODY CLANCY** 420 Boylston Street, Boston MA 02116
CODE	**ARUP** 60 State Street, Boston MA 02109
COST ESTIMATING	**NASCO** 200 Business Park Drive, Armonk NY 10504
HAZARDOUS MATERIALS	**WATTS ARCHITECTURE AND ENGINEERING** 95 Perry Street, Suite 300, Buffalo, NY 14203
LOW VOLTAGE AND AV/IT	**ENSIGN ENGINEERING** 1111 Calhoun Avenue, Bronx NY 10465
MECHANICAL, ELECTRICAL, FIRE ALARM, PLUMBING AND FIRE PROTECTION	**DM ENGINEERS PLLC** 45-08 40th Street Suite 1A, Sunnyside, NY 11104
SPECIFICATIONS	**SUE MCCLYMONDS ARCHITECT** 200 Robb Road, Amsterdam, NY 12010

SUNY State University Construction Fund

291029-04 REHABILITATE NATURAL SCIENCE BUILDING - BOOKSTORE SURGE RENOVATION

STATE UNIVERSITY COLLEGE AT PURCHASE

735 ANDERSON HILL RD, PURCHASE, NY 10577
SUCF PROJECT: 291029-04

FOR CONSTRUCTION

JANUARY 10, 2025

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LV1.00	LOW VOLTAGE LOWER LEVEL PLAN
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AV1.01	UPPER LEVEL FLOOR PLAN AV CONDUIT, BOXES, PROTECTOR MOUNT & SCREEN

* SHEET TO BE PRINTED IN COLOR

"To the best of my knowledge, information, and belief, the construction documents for this project are in conformance with the Building Code of New York State and all other applicable Federal and State laws and regulations, all as currently amended.

Todd Symonds	043749	12/31/2026
Name of Registered Professional who sealed Docs in the Set	*NYS Registration No.*	*Date*

REGISTERED ARCHITECT ALFRED TODD SYMONDS 043749 STATE OF NEW YORK

Goody Clancy

Purchase College STATE UNIVERSITY OF NEW YORK

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_ABBREVIATIONS

A	
A/C	AIR CONDITION (ER, ING)
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN, ACCESS DOOR
ADA	AMERICANS W/ DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJUSTABLE / ADJACENT
ADMIN	ADMINISTRATION
AF	ACCESS FLOORING
AFF	ABOVE FINISHED FLOOR
AFP	ACOUSTIC FABRIC PANEL
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE, ALTERATION
ALUM	ALUMINUM
AMP	AMPERES
ANCH	ANCHOR
AP	ACCESS PANEL
APPVD	APPROVED
APROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASSY	ASSEMBLY
ATR	ATRIUM
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AVB	AIR VAPOR BARRIER
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
B	
B.O.	BOTTOM OF
BB	BULLETIN BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BENCHMARK, BEAM
BRKT	BRACKET
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTW	BETWEEN
BYND	BEYOND
C	
CAB	CABINET
CB	CATCH BASIN, CHALKBOARD
CCP	COMPACT CAR PARKING
CCTV	CLOSED CIRCUIT TV
CFB	CEMENT FIBER BOARD
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CHEM	CHEMICAL, CHEMISTRY
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTERLINE, CLEARANCE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR, COLOR
CMPTR	COMPUTER
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITE(ION), COMPOSED
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CP	CONTROL PANEL
CPT	CARPET
CPTT	CARPET TILE
CSK	COUNTERSUNK, COUNTERSINK
CT	CERAMIC TILE
CTRL	CONTROL
CUH	CABINET UNIT HEATER
CW	COLD WATER, CLOCKWISE
D	
D	DEEP, DATA (OUTLET)
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVISION, DIVIDER
DN	DOWN
DP	DAMP PROOFING
DR	DOOR
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
E	
E	EAST, ELECTRICAL (OUTLET)
EA	EACH
EC	ELECTRICAL CABINET
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION (GRADE)
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR, ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSED, ENCLOSURE
EP	ELECTRICAL PANEL
EPOX	EPOXY

_ABBREVIATIONS

EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
ETR	EXISTING TO REMAIN
EW	EYE WASH, EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXAM	EXAMINATION
EXC	EXCAVATED, EXCAVATION, EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXIST	EXISTING
EXP	EXPOSED, EXPANSION
EXT	EXTERIOR
F	
F.D.	FLOOR DRAIN
FA	FIRE ALARM
FACIL	FACILITY
FC	FIRE CODE
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FUME HOOD
FHC	FIRE HOSE CABINET
FHEC	FIRE HOSE & EXTINGUISHER CABINET
FIN	FINISH(ED)
FL	FLOOR LINE, FLOOR
FLEX	FLEXIBLE
FLR	FLOOR(ING)
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIREPROOF(ING)
FREQ	FREQUENCY
FRMG	FRAMING
FS	FULL SIZE, FLOOR SINK
FT	FOOT, FEET
FTG	FOOTING
FTR	FIN TUBE RADIATION
FURN	FURNITURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
G	
G	GAS (OUTLET)
GA	GAUGE, GAGE
GAL	GALLON
GALV	GALVANIZE(D)
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING, GLAZED
GLU LAM	GLUE LAMINATED
GOVT	GOVERMENT
GRN	GRANITE
GWB	GYPSUM WALLBOARD
GYP BD	GYPSUM BOARD
H	
H	HIGH, HEIGHT
H.P.	HIGH POINT
HB	HOSE BIB
HC	HANDICAP ACCESSIBLE / PERSON
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HANDICAP PARKING
HPC	HIGH PERFORMANCE COATING
HR	HOUR
HT	HEIGHT
HTR	HEATER
HVAC	HEATING/VENTILATION/AIR COND.
HW	HOT WATER
I	
IBC	INTERNATIONAL BUILDING CODE
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE(ING)
INFO	INFORMATION
INSUL	INSULATE(D)(ING)(ION)
INT	INTERIOR
INV	INVERT
J	
J-BOX	JUNCTION BOX
JAN	JANITOR
JT	JOINT
K	
KIT	KITCHEN
KPL	KICK PLATE
L	
L.O.W.	LIMIT OF WORK
L.P.	LOW POINT
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LMF	LIGHT GAUGE METAL FRAMING
LT	LIGHT
LTG	LIGHTING
LVL	LEVEL
LVR	LOUVER
M	
M.O.	MASONRY OPENING
MACH	MACHINE
MAINT	MAINTENANCE

_ABBREVIATIONS

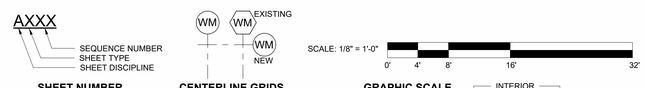
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MBL	MARBLE
MBR	MEMBER
MC	MEDICINE CABINET, MINERAL CORE
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MGR	MANAGER
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MLDG	MOULDING
MP	METAL PANEL
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING, MEETING
MTL	METAL
N	
N	NORTH
N/A	NOT APPLICABLE
NC	NON-CORROSIVE
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	
O.C.	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAM.,OUTSIDE DIMENSION
OFF	OFFICE
OH	OPPOSITE HAND
OPER	OPERATING
OPN(G)	OPEN(ING)
OPP	OPPOSITE
OZ	OUNCE
P	
PA	PUBLIC ADDRESS
PAT	PATTERN(ED)
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	PRECAST CONCRETE PANEL
PERF	PERFORATED
PERIM	PERIMETER
PG	PLATE GLASS
PH	PENTHOUSE, PHASE
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLEX	PLEXIGLASS
PLYWD	PLYWOOD
PNL(G)	PANEL(ING)
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT, PTD	PAINT(ED)
PTD	PAINT(ED)
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWC	PROTECTIVE WALL COVERING
PWR	POWER
Q	
QT	QUARRY TILE
QTY	QUANTITY
R	
R	RADIUS, RISER
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
RA	RETURN AIR
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RECIRC	RECIRCULATION
REF	REFERENCE
REFG	REFRIGERATOR
REINF	REINFORCE(D)(ING)
REQD	REQUIRED
RES	RESINOUS (WALL OR FLOORING)
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RFG	ROOFING
RH	RIGHT HAND, ROOF HATCH
RM	ROOM
RTU	ROOF TOP UNIT
RWL	RAINWATER LEADER
S	
S	SOUTH
SA	SUPPLY AIR
SALV	SALVAGE(D)
SAN	SANITARY
SC	SOLID CORE

_ABBREVIATIONS

SCHED	SCHEDULE
SCONC	SEALED CONCRETE
SCR	SCREEN, SHOWER CURTAIN ROD
SD	STORM DRAIN, SMOKE DETECTOR
SECT	SECTION
SF	SQUARE FEET
SFP	SPRAY-ON FIREPROOFING
SGL	SPANDREL GLAZING
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SK	SKETCH
SKLT	SKYLIGHT
SL, SLNT	SEALANT
SP	STANDPIPE
SPEC	SPECIFICATION, SPECIFIED
SPKLR	SPRINKLER
SPKR	SPEAKER
SPLY	SUPPLY
SQ	SQUARE
SS	STAINLESS STEEL, STANDING SEAM
ST	STREET
ST, STR	STAIR
STD	STANDARD
STL	STEEL
STL JST	STEEL JOIST
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMBOL
SYS	SYSTEM
T	
T	TREAD
T&G	TONGUE AND GROOVE
T.D.	TRENCH DRAIN
T.O.	TOP OF...
T.O.C.	TOP OF CURB, TOP OF CONCRETE
T.O.S.	TOP OF STEEL, TOP OF SLAB
T.O.W.	TOP OF WALL
T/D	TELEPHONE/DATA
TB	TACK BOARD, TOWEL BAR
TEMP	TEMPORARY, TEMPERATURE
TERR	TERRAZZO, TERRACE
TG	TEMPERED GLASS
THK	THICK(NESS)
THRU	THROUGH
TLT	TOILET
TMPD	TEMPERED
TPTN	TOILET PARTITION
TS	TUBE STEEL
TSTAT	THERMOSTAT
TV	TELEVISION
TWC	TEXTILE WALL COVERING
TYP	TYPICAL
U	
UCL	UNDER CABINET LIGHT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY, INC.
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
V	
VAR	VARIES
VB	VAPOR BARRIER, VINLY BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION, VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VOL	VOLUME
VP	VENEER PLASTER
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	
W	WEST, WIDE, WATER
W.P.	WORKING POINT
W/	WITH
W/O	WITHOUT
WB	WHITE BOARD, WOOD BASE
WC	WATER CLOSET, WALL COVERING
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE (STEEL), WOOD FLR
WGL	WIRE GLASS
WH	WALL HUNG
WP	WATERPROOF, WEATHERPROOF
WPM	WATERPROOF MEMBRANE
WPNL	WOOD PANELING
WR	WASTE RECEPTACLE, WATER REPELLANT, WATER RESISTANT
WS	WEATHERSTRIP, WALL SCONCE
WSCT	WAINSCOT
WT	WEIGHT, WINDOW TREATMENT
WWF	WELDED WIRE FABRIC
Y	
YD	YARD, YARD DRAIN
Z	
ZCC	ZINC COATED COPPER
ZCM	ZINC COMPOSITE MATERIAL

SYMBOLS LEGEND

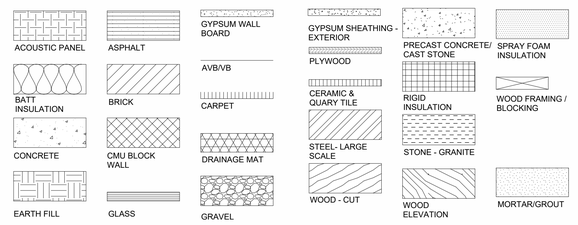
SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS



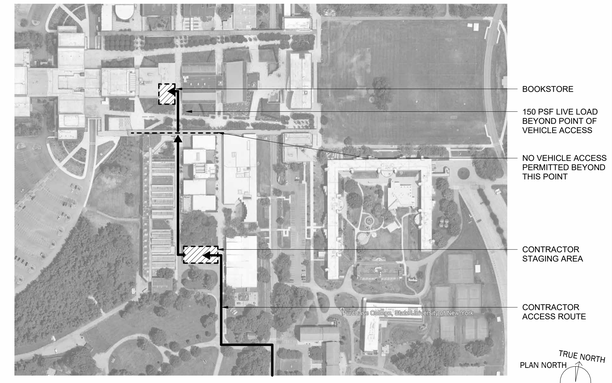
SYMBOL TITLES

SHEET NUMBER | CENTERLINE GRIDS | GRAPHIC SCALE | VIEW TITLE W/ SHEET | VIEW TITLE W/ SHEET & REFERENCE | VIEW TITLE INTERIOR ELEVATIONS | VIEW TITLE W/O SHEET | VIEW TITLE W/O SHEET, W/ BACK REFERENCE | BUILDING SECTION REFERENCE | WALL SECTION REFERENCE | DETAIL SECTION REFERENCE | DETAIL CALLOUT REFERENCE | EXTERIOR ELEVATION REFERENCE | INTERIOR ELEVATION REFERENCE | PROPERTY LINE DISTANCE TAG | PROPERTY LINE RADIUS TAG | ROOM NAME SMALL/LARGE & W/ROOM NUMBER | ROOM & AREA & VOLUME & OCCUPANCY | REVISION CALLOUT / CLOUD | REVISION TAG | FLOW ARROW REF. | FIRE EXIT SYMBOLS | FIRE EXTINGUISHER SYMBOLS | WINDOW TAG | GLAZING TAG | WALL TAG | WALL TAG W/MODIFIERS | DOOR TAG | CEILING TAG | CASEWORK TAG | FINISH TAG | KEYNOTE TAG | EQUIPMENT TAG | FURNITURE TAG | MATCHLINE REFERENCE | CENTERLINE TAG | ALIGN SYMBOL | SPOT ELEVATION | LEVEL HEADS | OCCUPANCY TAG | AREA OCCUPANCY TAG | NORTH ARROWS

MATERIALS LEGEND



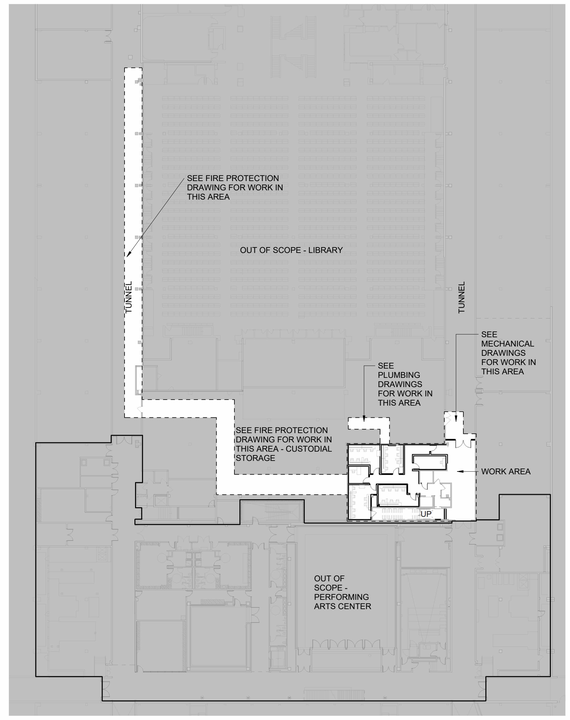
CAMPUS CONTEXT PLAN



LOCATION PLAN - LOWER LEVEL



2 UPPER LEVEL CONTRACTOR WORK AREA
Scale: 1" = 20'-0"



1 LOWER LEVEL CONTRACTOR WORK AREA
Scale: 1/32" = 1'-0"

TRUE NORTH
PLAN NORTH

SUNY State University Construction Fund

Purchase College
STATE UNIVERSITY OF NEW YORK

291029-04 REHABILITATE NATURAL SCIENCES BUILDING - BOOKSTORE SURGE RENOVATION

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REGISTRATION

REGISTERED ARCHITECT ALFRED TODD SYMONDS 043749-01 STATE OF NEW YORK

TRUE NORTH
PLAN NORTH

BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

REVISIONS

ISSUE

ARCHITECTURAL LEGEND, SYMBOLS, & ABBREVIATIONS

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GOODY CLANCY PROJECT NUMBER: 24006

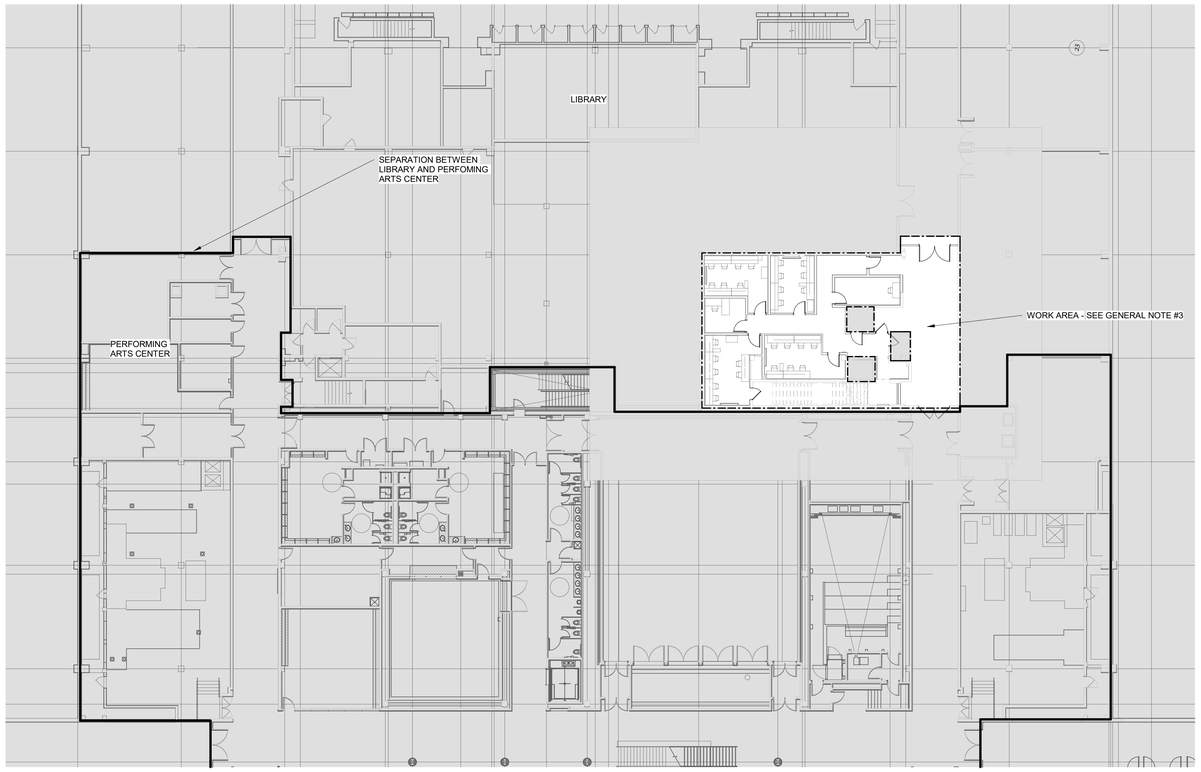
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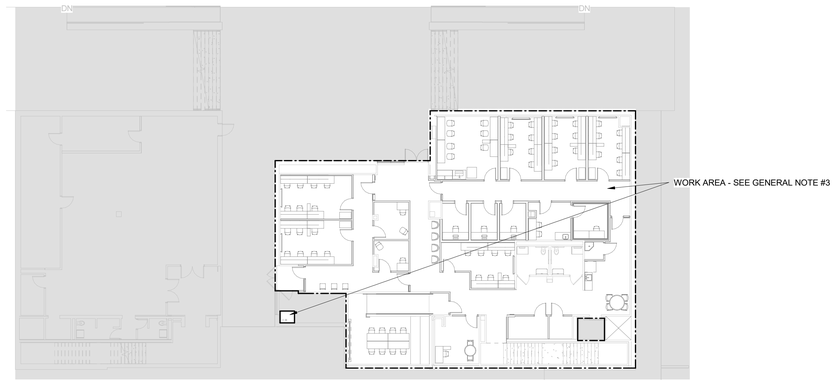
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1 LOWER LEVEL WORK AREA
1/16" = 1'-0"



2 UPPER LEVEL WORK AREA
1/16" = 1'-0"

GENERAL NOTES:
1. PROJECT WORK AREAS ARE ENCLOSED WITH DARK DASHED LINES.
2. AREAS SHADED IN GRAY DO NOT CONTRIBUTE TO THE WORK AREA OF THE PROJECT.
3. WORK AREAS SHOWN ARE AS DEFINED BY EBCNYS - SEE ARCHITECTURAL AND OTHER TRADE DRAWINGS FOR COMPLETE SCOPE OF WORK.

EXISTING BUILDING CODE COMPLIANCE APPROACH:
1. THE PROJECT IS REQUIRED TO COMPLY WITH THE WORK AREA PROVISIONS OF THE EXISTING BUILDING CODE OF NEW YORK STATE.
2. THE SCOPE OF THIS PROJECT IS A RENOVATION OF THE LOWER LEVEL AND UPPER LEVEL OF THE EXISTING BOOKSTORE. THE BOOKSTORE IS PART OF THE LARGER ADJACENT LIBRARY BUILDING.
3. THE WORK IS CLASSIFIED AS ALTERATION LEVEL 2 FOR BOTH WORK AREAS, AND A CHANGE OF OCCUPANCY FOR THE WORK AREA ON THE LOWER LEVEL.
4. REFER TO LS SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

LIFE SAFETY DRAWING LIST	
DRG NO.	**DRAWING TITLE**
LS.00	LIFE SAFETY WORK AREAS AND SHEET LIST
LS.01	CODE SHEET
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LS.10	LIFE SAFETY LOWER LEVEL PLAN
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REGISTRATION

STATE OF NEW YORK · ROBERT FRANCIS ACCOLA JR · 093193 · LICENSED PROFESSIONAL ENGINEER
01/10/2025

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TRUE NORTH
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BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

REVISIONS

ISSUE

LIFE SAFETY WORK AREAS AND SHEET LIST

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GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN:	WD	DATE:	01/10/2025
CHECKED:	EB	SCALE:	1/16" = 1'-0"

DRAWING NO.:

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BUILDING CODE INFORMATION

THE RENOVATION SHALL COMPLY WITH ALL THE REQUIREMENTS AS DESCRIBED HEREIN.

APPLICABLE CODES

- 2020 BUILDING CODE OF NEW YORK STATE (BCNYS)
- 2020 FIRE CODE OF NEW YORK STATE (FCNYS)
- 2020 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
- 2020 FUEL GAS CODE OF NEW YORK STATE (FGCNYS)
- 2020 PLUMBING CODE OF NEW YORK STATE (PCNYS)
- 2020 MECHANICAL CODE OF NEW YORK STATE (MCNYS)
- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)
  - 2020 VERSION 1.0 NYSTRETCH ENERGY CODE
- ICC A117.1, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, 2009 EDITION, AS ADOPTED AND AMENDED BY CHAPTER 11 OF BCNYS.
- AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS

NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS AS REFERENCED IN THE ABOVE CODES:
- NFPA 10 – STANDARD FOR PORTABLE FIRE EXTINGUISHING SYSTEMS, 2018 EDITION
- NFPA 13 – STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION
- NFPA 14 – INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2016 EDITION
- NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2016 EDITION
- NFPA 25 – STANDARD FOR INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS, 2017 EDITION
- NFPA 70 – NATIONAL ELECTRICAL CODE, 2017 EDITION
- NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE, 2016 EDITION
- NFPA 110 – STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2016 EDITION

BUILDING DESCRIPTION AND DATA

THE EXISTING PURCHASE COLLEGE BOOKSTORE IS BEING RENOVATED FOR USE BY THE PSYCHOLOGY DEPARTMENT AS SURGE SPACE DURING THE PHASED RENOVATION OF THE NATURAL SCIENCE BUILDING AT SUNY PURCHASE COLLEGE. THE EXISTING BOOKSTORE IS CONNECTED TO THE NEARBY LIBRARY AND EINSTEIN BAGEL BROS VIA THE LOWER LEVEL AND ARE COLLECTIVELY CONSIDERED AS ONE BUILDING. THIS RENOVATION INCLUDES APPROXIMATELY 7,500FT² OF PRIMARILY OFFICES AND DRY LAB SPACE AT UPPER LEVEL AND THE LOWER LEVEL. THE RENOVATION IS CLASSIFIED AS AN ALTERATION LEVEL 2 ON THE LOWER LEVEL AND UPPER LEVEL, AND A CHANGE IN OCCUPANCY OF THE LOWER LEVEL FROM S-1 TO B AND SHALL COMPLY WITH THE RELEVANT REQUIREMENTS OF THE EBCNYS. IT IS UNDERSTOOD THAT HAZARDOUS MATERIALS POSING A PHYSICAL HAZARD (AS DEFINED IN SECTION 307 OF BCNYS) ARE NOT PRESENT WITHIN THE WORK AREA.

BUILDING AGGREGATE DATA	253,783 GROSS SQUARE FEET
WORK AREA	7,500 GROSS SQUARE FEET, 3% OF THE TOTAL BUILDING AREA
BUILDING HEIGHT	59'-6"
NUMBER OF STORIES	3
FIRE PROTECTION	WORK AREA TO BE FULLY SPRINKLERED AS PART OF THIS RENOVATION

TENANT SPACE USE AND OCCUPANCY

USE & OCCUPANCY CLASSIFICATION (SECTION 302)	NON-SEPARATED MIXED USE B: RESEARCH / OFFICE / LABORATORY / CIRCULATION / ASSEMBLY SPACES WITH < 50 OCCUPANTS S-1: MEP / STORAGE (MODERATE-HAZARD)

FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS

CONSTRUCTION CLASSIFICATION	TYPE IB***
PRIMARY STRUCTURAL FRAME	2 HOUR
INTERIOR BEARING WALLS	2 HOUR
INTERIOR NON-BEARING WALLS AND PARTITIONS	0 HOURS
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	2 HOUR
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1 HOUR

***THE STATED EQUIVALENT CONSTRUCTION TYPE IS BASED ON AVAILABLE DOCUMENTATION AND SUCF DIRECTION FOR ASSUMPTIONS OF THE CURRENT STRUCTURE CONDITION.

FIRE RESISTANCE RATINGS FOR INTERIOR COMPARTMENTATION AND OPENING PROTECTION

SHAFTS CONNECTING THREE OR FEWER STORIES	1 HOUR
CORRIDORS SERVING GROUP B WITH >30 OCCUPANTS	1 HOUR
<u>OPENING PROTECTION</u>	
2-HR FIRE RATED ASSEMBLIES	90 MINUTES OPENING PROTECTION
1-HR RATED SHAFTS	60 MINUTES OPENING PROTECTION
OTHER 1-HR RATED ASSEMBLIES	45 MINUTES OPENING PROTECTION
1-HR RATED CORRIDOR WALLS	20 MINUTES OPENING PROTECTION

INTERIOR FINISHES

INTERIOR WALL AND CEILING FINISHES	WALL AND CEILING FINISHES SHALL HAVE MINIMUM INTERIOR FINISH RATINGS MEETING THOSE OF THE MOST RESTRICTIVE OCCUPANCY.
<u>GROUP B</u>	
EXIT ACCESS STAIRS AND CORRIDORS	CLASS B
ROOMS AND ENCLOSED SPACES	CLASS C
<u>GROUP S-1</u>	
EXIT ACCESS STAIRS AND CORRIDORS	CLASS B
ROOMS AND ENCLOSED SPACES	CLASS C

FIRE PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEM	AN AUTOMATIC WET-SPRINKLER SYSTEM WILL BE INSTALLED IN THE WORK AREAS AS PART OF THIS RENOVATION, AS REQUIRED BY THE EBCNYS SECTION 803.2.3 FOR WINDOWLESS STORIES. SPRINKLER CONTROL VALVES ARE CURRENTLY ASSUMED TO BE EQUIPPED WITH SUPERVISORY INITIATING DEVICES AND WATERFLOW INITIATING DEVICES WILL BE PROVIDED AT EACH FLOOR. AREAS SUBJECT TO FREEZING (BELOW 40 DEGREES F) ARE ASSUMED TO UTILIZE A DRY SPRINKLER SYSTEM.
STANDPIPE SYSTEM	A STANDPIPE SYSTEM IS NOT REQUIRED TO BE INSTALLED WITHIN THE WORK AREA.
FIRE ALARM SYSTEM	THE EXISTING FIRE ALARM SYSTEM WILL BE MAINTAINED AND MODIFIED FOR BOTH LEVELS IN ORDER TO PROVIDE ADEQUATE PROTECTION FOR THE NEWLY CREATED SPACES. THE MODIFIED SYSTEM SHALL COMPLY WITH NFPA 72.

MEANS OF EGRESS

OCCUPANT LOAD	REFER TO LS.10 AND LS.11 FOR OCCUPANT LOADS.
OCCUPANT LOAD FACTORS (SQ. FT. PER OCCUPANT)	ACCESSORY STORAGE AND MECHANICAL ROOMS: 300 GROSS ASSEMBLY - UNCONCENTRATED (TABLES AND CHAIRS): 15 NET BUSINESS: 150 GROSS BUSINESS - CONCENTRATED: 50 GROSS
EGRESS WIDTH	EXIT STAIRS: 0.2 INCHES PER OCCUPANT SERVED OTHER EGRESS ELEMENTS: 0.15 INCHES PER OCCUPANT SERVED AS PERMITTED FOR THE ORIGINAL BUILDING CONSTRUCTION STAIRS - 44 INCHES, OR 36 INCHES WHEN SERVING < 50 OCCUPANTS DOORS - 32 INCHES (NO MINIMUM FOR DOORS SERVING STORAGE CLOSETS LESS THAN 10 SQ. FT.) RAMPS - 48 INCHES CLEAR WIDTH BETWEEN RAILINGS CORRIDORS - 44 INCHES, OR 36 INCHES WHEN SERVING < 50 OCCUPANTS, OR 24 INCHES FOR ACCESS TO MEP SYSTEMS
MINIMUM NUMBER OF EXITS	FLOOR AND SPACE OCCUPANT LOAD < 50 - 1 EXIT FLOOR AND SPACE OCCUPANT LOAD > 50, <501 - 2 EXITS
MAXIMUM LENGTH OF EXIT ACCESS TRAVEL (WITH SPRINKLERS)	GROUP B - 300 FEET GROUP S-1 - 250 FEET
MAXIMUM COMMON PATH OF TRAVEL	GROUPS B, S - 100 FEET
CORRIDOR FIRE-RESISTANCE RATING	1-HR RATED, WHERE SERVING GROUP B WITH >30 OCCUPANTS
DEAD END CORRIDORS	GROUPS B, S - 50 FEET OR 2.5 TIMES THE WIDTH OF THE CORRIDOR, WHICHEVER IS GREATER.
EXIT ACCESS	EGRESS THROUGH INTERVENING ROOMS SHALL BE PERMITTED, PROVIDED THEY ARE OF EQUAL OR LESSER HAZARD, THEY ARE ROOMS THAT CANNOT LOCK AND ARE NOT KITCHENS, STORAGE ROOMS, CLOSETS, OR SIMILAR SPACES.
EXIT DISCHARGE	THE RENOVATION PROJECT WILL NOT MODIFY EXIT DISCHARGES
RAMPS	MINIMUM WIDTH - 36 INCHES BETWEEN HANDRAILS; *OR MIN 48 INCHES MAXIMUM RISE - 30 INCHES MAXIMUM SLOPE - 1:12 MINIMUM LANDING WIDTH - NOT LESS THAN THE WIDTH OF THE RAMP ADJOINING THE LANDING MINIMUM LANDING WIDTH - 60 INCHES WHERE TRAVEL IS IN A STRAIGHT RUN
SEPARATION OF EXITS	TWO REQUIRED EXITS MUST BE SEPARATED BY A DISTANCE EQUAL TO MORE THAN ONE-THIRD THE MAXIMUM DIAGONAL DIMENSION OF THE AREA SERVED. WHERE THREE EXITS ARE REQUIRED, AT LEAST TWO EXITS MUST BE SEPARATED BY A DISTANCE EQUAL TO MORE THAN ONE-THIRD THE MAXIMUM DIAGONAL DIMENSION OF THE AREA SERVED.
ILLUMINATED EGRESS SIGNS	INTERNALLY-ILLUMINATED EXIT SIGNS SHALL BE PROVIDED IN ALL SPACES THAT REQUIRE MORE THAN ONE EXIT, OR WHERE THE EXIT PATH IS NOT IMMEDIATELY VISIBLE AND CLEAR, AND THROUGHOUT CORRIDORS SUCH THAT THE LOCATION OF EXIT SIGNS ARE READILY VISIBLE AND LOCATED WITHIN 100 FT. FROM ANY POINT.
HORIZONTAL EXITS	THE EXISTING HORIZONTAL EXIT WILL NOT BE MODIFIED AS PART OF THIS RENOVATION.
DOOR SWING	DOOR WILL SWING IN THE DIRECTION OF EXIT TRAVEL WHERE SERVING 50 OR MORE OCCUPANTS.
PANIC / FIRE EXIT HARDWARE	PANIC HARDWARE WILL BE PROVIDED ON DOORS SERVING GROUP A OCCUPANCIES WITH 50 OR MORE OCCUPANTS.

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291029-04 REHABILITATE NATURAL SCIENCES BUILDING - BOOKSTORE SURGE RENOVATION

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BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

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CODE SHEET

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PLUMBING CODE INFORMATION

REQUIRED FIXTURE COUNTS

SINCE THE OCCUPANT LOAD IS INCREASING BY MORE THAN 20% FOR THE PSYCH SURGE SPACE AND THERE IS A CHANGE OF OCCUPANCY ON THE LOWER LEVEL, THE PLUMBING FIXTURE COUNTS MUST COMPLY WITH THE PCNYS (EBNYS 809.1 AND 1009.1). THE STRATEGY FOR THIS RENOVATION INVOLVES COMBINING THE OCCUPANT LOADS OF THE LOWER LEVEL, UPPER LEVEL, AND THE EINSTEIN BROS BAGEL STORE TO PROVIDE THE REQUIRED FIXTURE COUNTS.

OCCUPANTS FROM THE PSYCH SURGE SPACE HAVE ACCESS TO FOUR GENDER NEUTRAL BATHROOMS. TWO ARE EXISTING WITHIN THE PSYCH SURGE SPACE, AND TWO ARE SHARED WITH AN EINSTEIN BROS BAGEL STORE WHICH RESIDES IN THE SAME BUILDING (AND INCLUDES THE ADJACENT LIBRARY). AT THE DIRECTION OF SUCF, OCCUPANTS IN THE SURGE SPACE WILL REQUIRE THE USE OF BATHROOMS WITHIN THE EINSTEIN BROS BAGEL STORE AND AS SUCH, THE CAMPUS HAS CONFIRMED THAT THESE OCCUPANTS WILL HAVE 24/7 ACCESS TO THE BATHROOMS IN THE EINSTEIN BROS BAGEL STORE PORTION OF THE BUILDING.

SINCE THE OCCUPANTS WILL BE SHARING BATHROOMS, THE REQUIRED FIXTURE COUNTS AND OCCUPANT LOADS FOR EACH SPACE NEEDS TO BE CONSIDERED. THE OCCUPANT LOAD OF THE EINSTEIN BROS BAGELS SHALL NOT BE MORE THAN 61 TO PROVIDE SUFFICIENT FIXTURES FOR BOTH GROUPS. SUCF & THE CAMPUS SHALL MAKE FINAL DECISION AND ENFORCE AN OCCUPANT LOAD OF LESS THAN 61 FOR THE SPACE. THE OCCUPANT LOAD OF THE PSYCH SURGE SPACE IS 109 TOTAL BETWEEN THE LOWER LEVEL AND UPPER LEVEL.

EINSTEIN BROS BAGEL STORE IS CONSIDERED AN ASSEMBLY OCCUPANCY, SIMILAR TO RESTAURANTS, BANQUET HALLS, OR FOOD COURTS AS DEFINED BY THE PCNYS. THE REQUIRED NUMBER OF FIXTURES IS AS FOLLOWS:
- WATER CLOSETS: 1 PER 75 OCCUPANTS
- LAVATORY: 1 PER 200 OCCUPANTS
- DRINKING FOUNTAINS: 1 PER 500, NOT REQUIRED IN RESTAURANTS IF THEY PROVIDE WATER IN A CONTAINER FREE OF CHARGE (PCNYS 410.4)
- SERVICE SINKS: 1 REQUIRED

NOTE: THE EINSTEIN BROS BAGEL STORE IS AN EXISTING OCCUPANCY, ONLY THE FIXTURE COUNTS FOR WATER CLOSETS AND LAVATORIES ARE BEING CONSIDERED FOR THIS ANALYSIS.

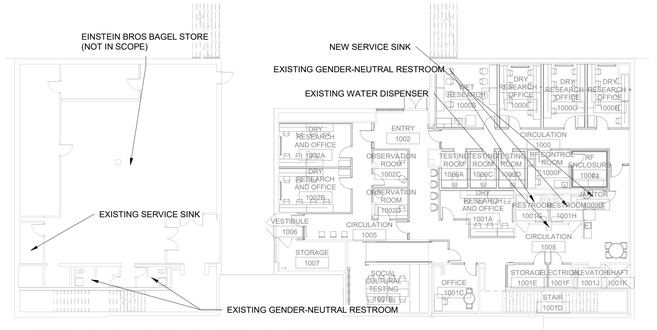
THE PSYCH SURGE SPACE IS CONSIDERED A BUSINESS OCCUPANCY. THE REQUIRED NUMBER OF FIXTURES IS AS FOLLOWS:
- WATER CLOSETS: 1 PER 25 FOR THE FIRST 50 OCCUPANTS, THEN 1 PER 50 FOR THE REMAINING
- LAVATORIES: 1 PER 40 FOR THE FIRST 80 OCCUPANTS, THEN 1 PER 80 FOR THE REMAINING
- DRINKING FOUNTAINS: 1 PER 100, NOT REQUIRED IF PUBLIC DRINKING FOUNTAINS ARE WITHIN 500 FT TRAVEL DISTANCE (PCNYS 403.5)
- SERVICE SINKS: 1 REQUIRED

SECTION 410.4 OF THE PCNYS ALLOWS FOR WATER DISPENSERS TO BE SUBSTITUTED FOR NOT MORE THAN 50 PERCENT OF THE REQUIRED NUMBER OF DRINKING FOUNTAINS. PSYCH SURGE SPACE OCCUPANTS WILL HAVE ACCESS TO DRINKING FOUNTAINS WITHIN THE LIRBARY LOCATED WITHIN 500 FT OF THE PSYCH SURGE SPACE.

THE CALCULATION FOR THE REQUIRED NUMBER OF FIXTURES COMPARED TO THE REQUIRED NUMBER OF FIXTURES IS SHOWN IN THE FOLLOWING TABLE:

REQUIRED (R) VS. PROVIDED (P) PLUMBING FIXTURE COUNTS

UNISEX WATER CLOSETS		UNISEX LAVATORIES		DRINKING FOUNTAINS		SERVICE SINKS	
R	**P**	R	**P**	R	**P**	R	**P**
4	**4**	4	**4**	2	**2**	1	**1**



1 UPPER LEVEL PLUMBING FIXTURES
1/16" = 1'-0"

NOTE: THERE ARE NO PLUMBING FIXTURES LOCATED AT THE LOWER LEVEL. PSYCH SURGE SPACE OCCUPANTS WILL HAVE 24/7 ACCESS TO THE PLUMBING FIXTURES IN THE EINSTEIN BROS BAGEL STORE AND TO DRINKING FOUNTAINS WITHIN THE LIBRARY LOCATED WITHIN 500 FT OF THE PSYCH SURGE SPACE.

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PLUMBING FIXTURE STRATEGY

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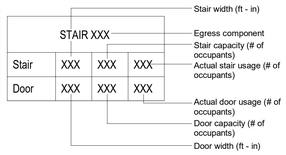
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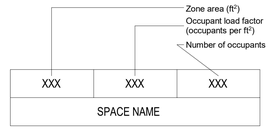
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LIFE SAFETY SYMBOLS

SYMBOL	DESCRIPTION
	COMMON PATH OF TRAVEL
	EXIT ACCESS TRAVEL DISTANCE
	DEAD END CORRIDOR DISTANCE
	EXIT SEPARATION DISTANCE
	BUILDING DIAGONAL DISTANCE



EXIT TAG



OCCUPANCY LOAD TAG

USE OF SPACE LEGEND

SYMBOL	DESCRIPTION
	ASSEMBLY - CONCENTRATED (7 SQ FT/PERSON)
	ASSEMBLY - UNCONCENTRATED (15 SQ FT/PERSON)
	BUSINESS - CONCENTRATED (50 SQ FT/PERSON)
	BUSINESS (150 SQ FT/PERSON)
	STORAGE / MECHANICAL SPACE (300 SQ FT/PERSON)

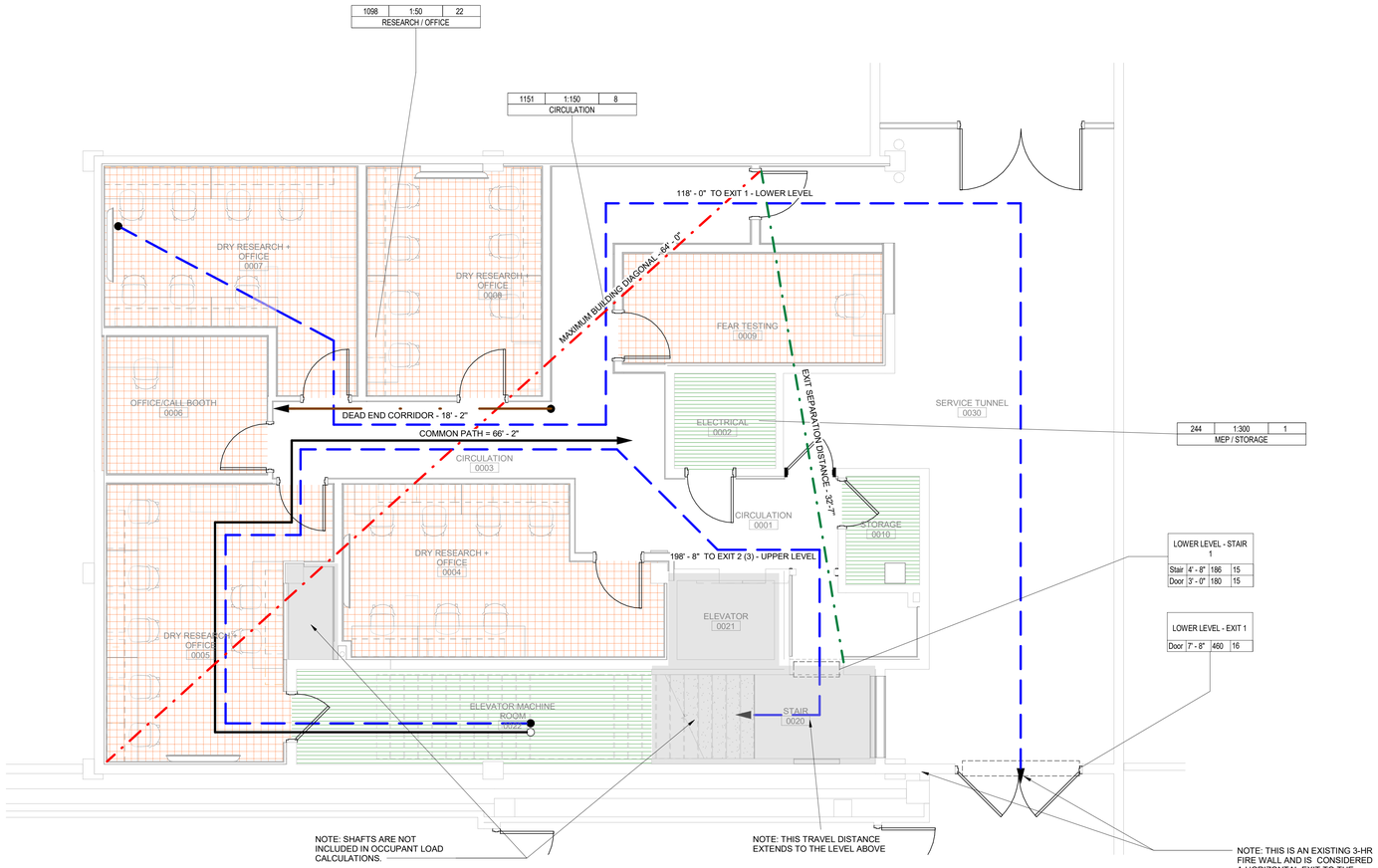
OCCUPANCY LOAD SCHEDULE - LOWER LEVEL

SPACE NAME	USE GROUP	USE OF SPACE	AREA (SQ FT)	OCCUPANT LOAD FACTOR (SQ FT/PERSON)	NUMBER OF OCCUPANTS
RESEARCH / OFFICE	B	Business - Concentrated	1099 ft²	50	22
CIRCULATION	B	Business	1152 ft²	150	8
MEP / STORAGE	S-1	Group S-1, Moderate Hazard Storage	244 ft²	300	1
Total			2494 ft²		31

EXIT CAPACITY SCHEDULE - LOWER LEVEL

EGRESS TAG	DOOR WIDTH	DOOR CAPACITY FACTOR	DOOR CAPACITY	STAIR WIDTH	STAIR CAPACITY FACTOR	STAIR CAPACITY	EXIT CAPACITY	ACTUAL EGRESS
LOWER LEVEL - EXIT 1	7' - 8"	0.2	460	-	-	-	460	16
LOWER LEVEL - STAIR 1	3' - 0"	0.2	180	4' - 8"	0.3	186	180	15
Total							640	31

GENERAL NOTES:
1. THE CAPACITY FACTORS ARE 0.30 INCHES PER OCCUPANT SERVED FOR STAIRS AND 0.20 INCHES PER OCCUPANT SERVED FOR DOORS BECAUSE THE ENTIRE BUILDING IS NOT PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM. THE WORK AREA WILL BE PROTECTED BY AN NFPA 13 COMPLIANT SPRINKLER SYSTEM AS PART OF THIS RENOVATION.
2. ALL DOORS IN THE DIRECTION OF EGRESS ARE TO BE UNLOCKED.
3. STAIR 1 ACTS AS AN INTERIOR EXIT ACCESS STAIR. THE TRAVEL DISTANCE SHOWN ON THIS SHEET EXTENDS ON SHEET LS.11 TO REACH AN EXTERIOR EXIT.
4. THE 15 OCCUPANTS WHO USE STAIR 1 AS AN EXIT ACCESS STAIR ARE ACCOUNTED FOR ON THE EXIT CAPACITY SCHEDULE FOR THE UPPER LEVEL.



1 LOWER LEVEL
1/4" = 1'-0"

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LIFE SAFETY LOWER LEVEL PLAN

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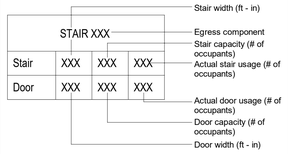
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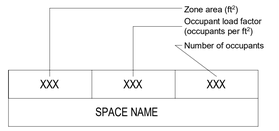
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LIFE SAFETY SYMBOLS

SYMBOL	DESCRIPTION
	COMMON PATH OF TRAVEL
	EXIT ACCESS TRAVEL DISTANCE
	DEAD END CORRIDOR DISTANCE
	EXIT SEPARATION DISTANCE
	BUILDING DIAGONAL DISTANCE



EXIT TAG



OCCUPANCY LOAD TAG

USE OF SPACE LEGEND

SYMBOL	DESCRIPTION
	ASSEMBLY - CONCENTRATED (7 SQ FT/PERSON)
	ASSEMBLY - UNCONCENTRATED (15 SQ FT/PERSON)
	BUSINESS - CONCENTRATED (50 SQ FT/PERSON)
	BUSINESS (150 SQ FT/PERSON)
	STORAGE / MECHANICAL SPACE (300 SQ FT/PERSON)

OCCUPANCY LOAD SCHEDULE - UPPER LEVEL

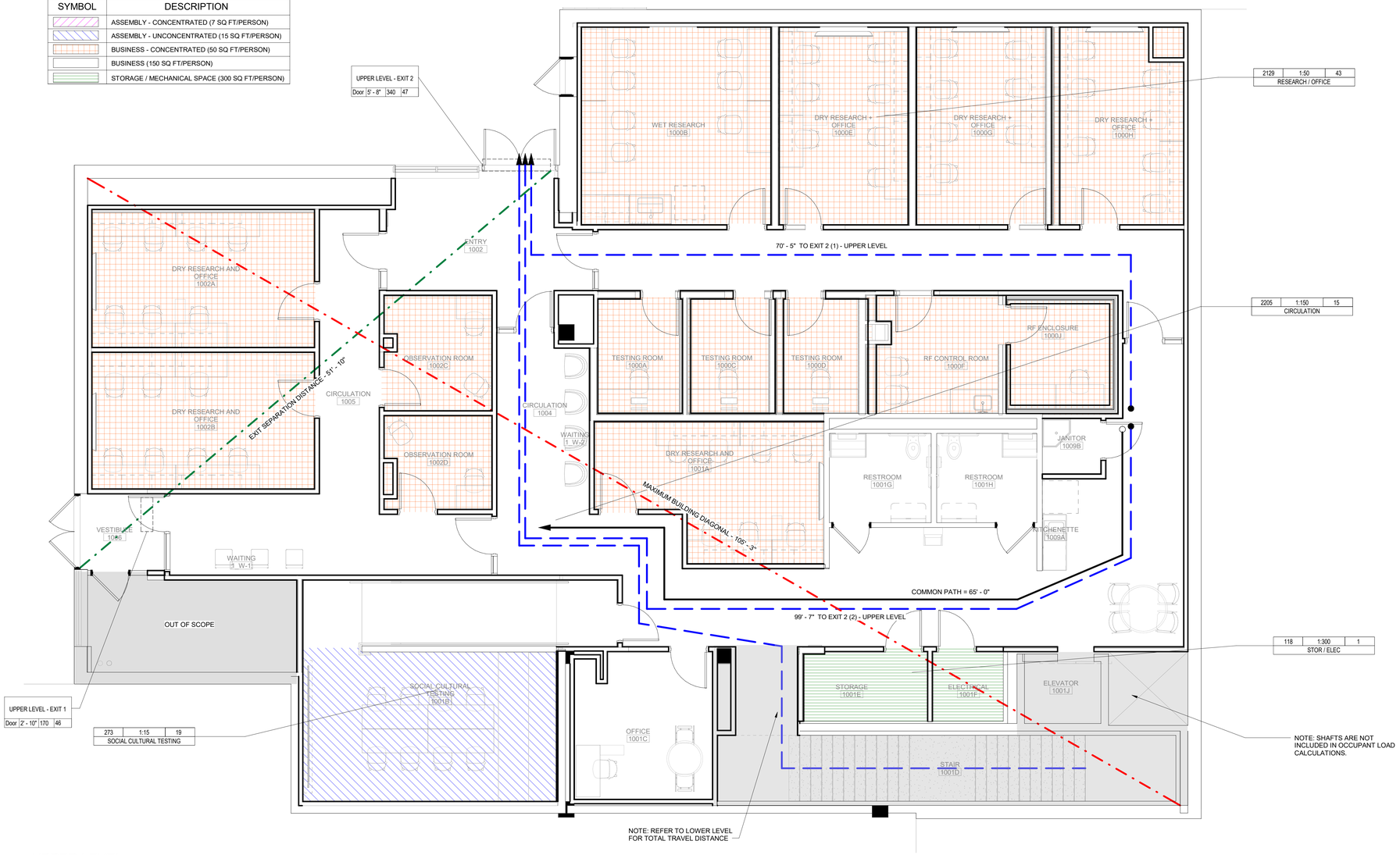
SPACE NAME	USE GROUP	USE OF SPACE	AREA (SQ FT)	OCCUPANT LOAD FACTOR (SQ FT/PERSON)	NUMBER OF OCCUPANTS
SOCIAL CULTURAL TESTING	B	Asssembly - Unconcentrated (Tables and Chairs)	273 ft²	15	19
RESEARCH / OFFICE	B	Business - Concentrated	2129 ft²	50	43
CIRCULATION	B	Business	2205 ft²	150	15
STOR / ELEC	S-1	Group S-1, Moderate Hazard Storage	118 ft²	300	1
Total			4725 ft²		78

EXIT CAPACITY SCHEDULE - UPPER LEVEL

EGRESS TAG	DOOR WIDTH	DOOR CAPACITY FACTOR	DOOR CAPACITY	STAIR WIDTH	STAIR CAPACITY FACTOR	STAIR CAPACITY	EXIT CAPACITY	ACTUAL EGRESS
UPPER LEVEL - EXIT 1	2' - 10"	0.2	170	-	-	-	170	46
UPPER LEVEL - EXIT 2	5' - 8"	0.2	340	-	-	-	340	47
Total							510	93

NOTE: AN ADDITONAL 15 OCCUPANTS FROM THE LOWER LEVEL EGRESS ON THIS LEVEL.

GENERAL NOTES:
1. THE CAPACITY FACTORS ARE 0.30 INCHES PER OCCUPANT SERVED FOR STAIRS AND 0.20 INCHES PER OCCUPANT SERVED FOR DOORS BECAUSE THE ENTIRE BUILDING IS NOT PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM. THE WORK AREA WILL BE PROTECTED BY AN NFPA 13 COMPLIANT SPRINKLER SYSTEM AS PART OF THIS RENOVATION.
2. ALL DOORS IN THE DIRECTION OF EGRESS ARE TO BE UNLOCKED.
3. THE TOTAL EXIT CAPACITY USE EXCEEDS THE OCCUPANT LOAD OF THIS FLOOR BECAUSE 15 OCCUPANTS FROM THE LOWER LEVEL EXIT ON THIS FLOOR BY USING STAIR 1.



1 UPPER LEVEL
1/4" = 1'-0"

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STATE UNIVERSITY OF NEW YORK

291029-04 REHABILITATE NATURAL SCIENCES BUILDING - BOOKSTORE SURGE RENOVATION

Purchase College
735 Anderson Hill Rd, Purchase, NY 10577

Goody Clancy

420 Boylston Street
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STATE OF NEW YORK · ANTHONY FRANCIS ACCONCIA JR · 093193 · LICENSED PROFESSIONAL ENGINEER · 01/10/2025

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BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

REVISIONS

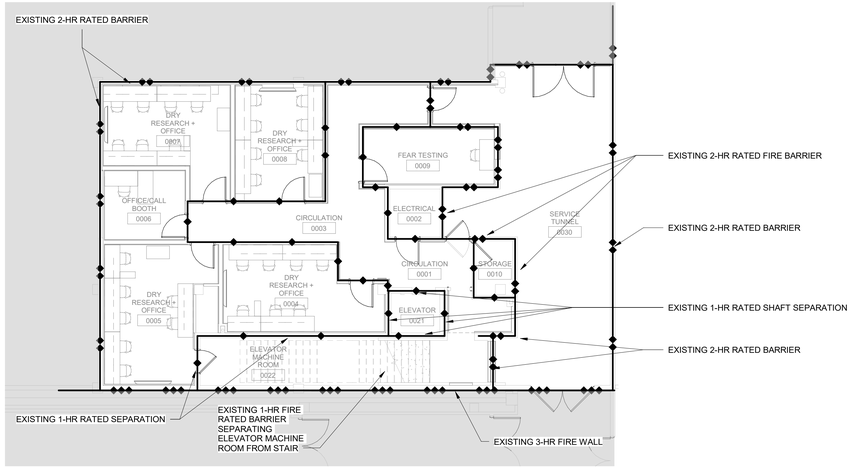
ISSUE

LIFE SAFETY UPPER LEVEL PLAN

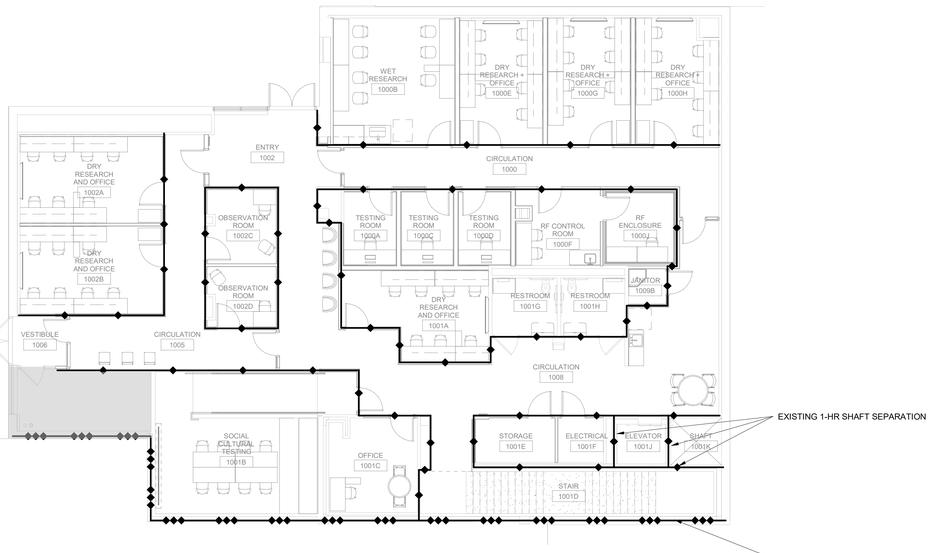
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GOODY CLANCY PROJECT NUMBER: 24006
FILE NAME:
DRAWN: WD | DATE: 01/10/2025
CHECKED: EB | SCALE: As indicated
DRAWING NO.:

LS.11



1 LOWER LEVEL FIRE RATINGS
1/8" = 1'-0"



2 UPPER LEVEL FIRE RATINGS
1/8" = 1'-0"

RATED WALL LEGEND

SYMBOL	DESCRIPTION
◆	1-HOUR FIRE-RATED BARRIERS
◆◆	2-HOUR FIRE-RATED BARRIERS
◆◆◆	3-HOUR FIRE-RATED BARRIERS

FIRE RATING NOTES.
1. ONLY THOSE FIRE-RATED BARRIERS LOCATED WITHIN THE SCOPE OF WORK OF THE PROJECT HAVE BEEN INDICATED ON THESE DRAWINGS. IT IS THE EXPECTATION THAT ANY EXISTING FIRE-RATED BARRIER LOCATED IN OUT-OF-SCOPE AREAS THAT MAY NOT BE INDICATED ON THESE DRAWINGS WILL REMAIN.
2. REFER TO ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF NEW VS EXISTING FIRE RATED WALLS.
3. WALLS THAT ARE NOT INDICATED AS EXISTING FIRE BARRIERS ARE TO BE PROVIDED NEW WITHIN THE SCOPE OF THE PROJECT.

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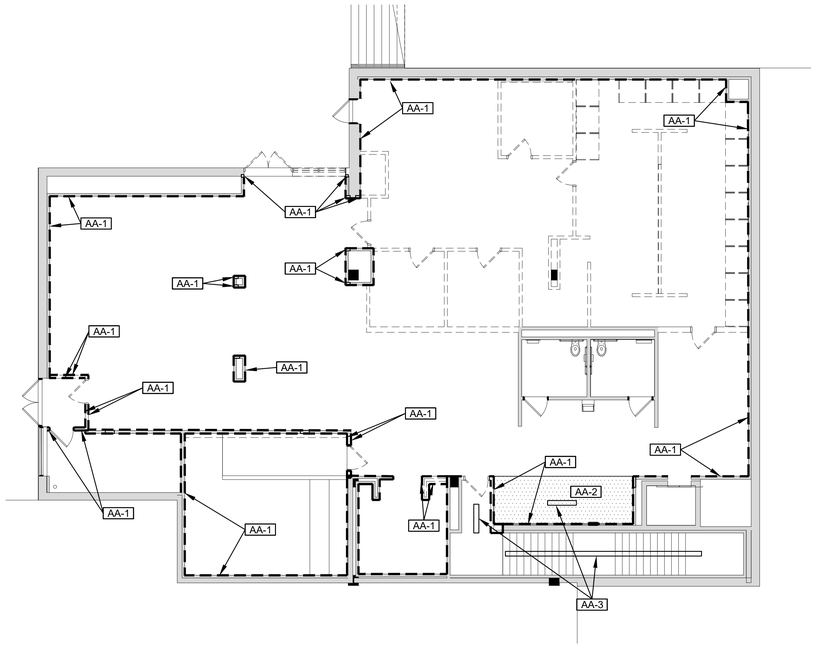
FIRE RATING PLAN

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FILE NAME:
DRAWN: WD | DATE: 01/10/2025
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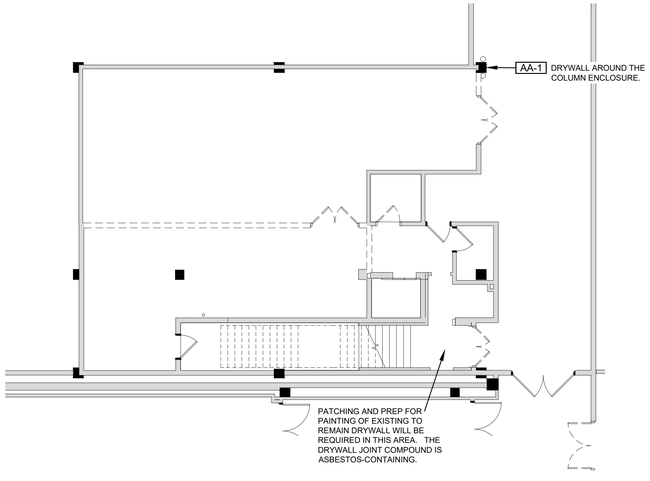
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1 UPPER LEVEL HAZARDOUS MATERIALS REMOVAL PLAN

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

N



2 LOWER LEVEL HAZARDOUS MATERIALS REMOVAL PLAN

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

N

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, GUIDELINES, VARIANCES, AND THE CONTRACT DOCUMENTS.

B. ALL MATERIAL MEASUREMENTS AND/OR QUANTITIES AND LOCATIONS ARE FOR BIDDING PURPOSES ONLY.

C. ANY SITE-SPECIFIC VARIANCE(S) PETITION PREPARED BY THE CONTRACTOR MAY NOT BE SUBMITTED UNTIL APPROVAL IS GIVEN BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

D. IF UNANTICIPATED SUSPECT MATERIALS ARE IDENTIFIED DURING CONSTRUCTION (I.E. SUSPECT ACM, PCBs, ETC.), CEASE OPERATIONS AND NOTIFY THE OWNER OR THEIR REPRESENTATIVE FOR FURTHER DIRECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COLLECT AND/OR ANALYZE BULK SAMPLES OF SUSPECT MATERIALS WITHOUT THE APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE.

E. THE LOCATION OF SITE STORAGE OF ALL MATERIAL, EQUIPMENT, DECONTAMINATION UNITS, AND THE WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

F. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER/OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.

G. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA(S) IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL AND/OR UNAUTHORIZED VISITORS DO NOT ENTER THE REGULATED ABATEMENT WORK AREA(S) OR THE ADJACENT RESTRICTED CONSTRUCTION AREA. CAREFULLY PERFORM WORK TO PREVENT DAMAGE TO FINISHES/MATERIALS SCHEDULED TO REMAIN. REPAIR OF DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION OR CONTRACTOR ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

H. ALL PROJECT-RELATED REMOVAL/DEMOLITION ACTIVITIES SHALL BE PERFORMED BY THE ABATEMENT CONTRACTOR INSIDE THE REGULATED ABATEMENT WORK AREA AS PART OF THE ASBESTOS ABATEMENT PROJECT, FOLLOWED BY A THOROUGH CLEANING OF ALL ACCESSIBLE SURFACES/CAVITIES. COORDINATE ALL WORK ACTIVITIES WITH THE CONTRACT DOCUMENTS AND THE OWNER/OWNER'S REPRESENTATIVE TO ENSURE REMOVAL ACTIVITIES ARE SUFFICIENT TO ACCOMMODATE THE PROJECT OBJECTIVES.

I. COORDINATE THE PROPER SHUTDOWN AND/OR ISOLATION OF ELECTRICAL AND MECHANICAL EQUIPMENT LOCATED WITHIN THE REGULATED WORK AREAS WITH THE OWNER/OWNER'S REPRESENTATIVE. REVIEW CIRCUITS AND EQUIPMENT THAT MUST REMAIN ENERGIZED AND ACCESSIBLE TO FACILITY MAINTENANCE STAFF INSIDE THE REGULATED ABATEMENT WORK AREA THAT WILL REQUIRE PROTECTION DURING WORK AREA PREPARATION.

J. ALL ASBESTOS-CONTAINING MATERIAL SHALL BE PROPERLY PACKAGED PRIOR TO BEING REMOVED FROM THE REGULATED WORK AREA(S). ASBESTOS WARNING LABELS SHALL BE APPLIED TO THE ASBESTOS WASTE BAGS. ALL ASBESTOS MATERIALS THAT ARE REMOVED FROM THE SITE SHALL BE ACCOMPANIED BY A WASTE SHIPMENT RECORD AND SIGNED ASBESTOS WASTE MANIFEST. COMPLETED WASTE SHIPMENT RECORDS MUST BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AS PART OF THE CLOSEOUT DOCUMENTATION. ALL ORIGINAL WASTE SHIPMENT RECORDS MUST BE PROVIDED WITHIN 30 DAYS OF THE WASTE LEAVING THE SITE.

K. CONTRACTOR SHALL PROVIDE ALL SCAFFOLDING, LIFTS, ETC. REQUIRED TO REMOVE ALL MATERIALS.

L. CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION TO KEEP THE WORK AREAS AND BUILDING IN A SECURE AND WATERTIGHT CONDITION AT ALL TIMES DURING THE PERFORMANCE OF THE CONTRACT WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO ANY AREAS OF THE BUILDING AS A RESULT OF IMPROPER TEMPORARY PROTECTION.

ASBESTOS AWARENESS NOTE

ASBESTOS-CONTAINING MATERIALS HAVE BEEN IDENTIFIED IN VARIOUS AREAS THROUGHOUT THE BUILDING. ALL CONTRACTORS SHALL MAKE THEIR WORKERS AWARE OF THE PRESENCE OF THIS ACM. IF ANY WORK ACTIVITIES ARE REQUIRED THAT ARE NOT INDICATED FOR ABATEMENT AS PART OF THIS PROJECT, INFORM THE OWNER OR THE OWNER'S REPRESENTATIVE FOR ADDITIONAL INFORMATION AND COORDINATION. IN PARTICULAR, THE FOLLOWING MATERIALS ARE PRESENT:

- PACM DAMP PROOFING IS ASSUMED TO BE PRESENT BEHIND THE EXTERIOR MASONRY FAÇADE OF THE BOOKSTORE BUILDING.
- DRYWALL JOINT COMPOUND.
- PACM WATERPROOFING TAR IS ASSUMED TO BE PRESENT ON BELOW GRADE FOUNDATION WALLS OF THE BOOKSTORE BUILDING.

ASBESTOS ABATEMENT NOTES

AA-1 PROPERLY REMOVE AND DISPOSE OF THE ENTIRE GYPSUM WALL BOARD SYSTEM WITH ASBESTOS-CONTAINING JOINT COMPOUND - REFER TO DRAWING AD1.00 FOR ADDITIONAL INFORMATION. THE ENTIRE WALL SYSTEM SHALL BE REMOVED BACK TO THE METAL STUDS WHICH WILL REMAIN. CAREFULLY CUT DRYWALL AT EDGES OF REMOVAL TO MAINTAIN A STRAIGHT EDGE. ENCAPSULATE EDGES OF EXPOSED DRYWALL.

AA-2 CONTRACTOR SHALL REMOVE AND DISPOSE OF THE GYPSUM CEILING BOARD SYSTEM WITH ASBESTOS-CONTAINING JOINT COMPOUND, AS INDICATED. COORDINATE PRECISE LOCATIONS WITH THE GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION DRAWINGS. ALL REMAINING GYPSUM BOARD SHALL BE LEFT WITH A STRAIGHT EDGE TO FACILITATE PATCHING. ENCAPSULATE EDGES OF EXPOSED DRYWALL.

AA-3 CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF THE LIGHT FIXTURES ATTACHED TO DRYWALL CEILINGS WITH ASBESTOS-CONTAINING JOINT COMPOUND.

LEAD AWARENESS NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION; INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD. REFER TO SECTION 028304 HANDLING OF LEAD-CONTAINING MATERIALS.

2. PRIOR TO THE PREPARATION OF THE CONTRACT DOCUMENTS, TESTING HAS BEEN PERFORMED ON REPRESENTATIVE BUILDING COMPONENTS THAT WILL BE IMPACTED BY THIS PROJECT. IN GENERAL, THE FOLLOWING BUILDING COMPONENTS WERE IDENTIFIED TO BE COATED WITH LEAD-BASED PAINT OR LEAD-CONTAINING:

   - STAIRCASE RISERS
   - STAIRCASE TREADS
   - COVE BASE MOLDING IN BASEMENT ELEVATOR VESTIBULE

3. FURNISHING OF THIS INFORMATION IS NOT INTENDED TO RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITIES UNDER OSHA TO DETERMINE THE PRESENCE, LOCATION, AND QUANTITY OF EXISTING LEAD-CONTAINING MATERIALS THAT THEIR EMPLOYEES AND SUBCONTRACTORS MAY BE EXPOSED TO, AND TO WARN THEIR EMPLOYEES OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.

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UPPER AND LOWER LEVEL HAZARDOUS MATERIALS REMOVAL PLAN

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GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

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

DRAWING NO.:

H1.00

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DEMOLITION PLAN NOTES

1. ALL DIMENSIONS AND CONFIGURATIONS OF EXISTING ELEMENTS SHALL BE VERIFIED IN THE FIELD.
2. ALL WALLS, FLOORS, WINDOWS, DOORS, STAIRS, FIXTURES, AND FINISHES INDICATED TO REMAIN SHALL BE FULLY PROTECTED FROM DEMOLITION AND SUBSEQUENT CONSTRUCTION.
3. REFER TO HAZARDOUS BUILDING MATERIALS NARRATIVE AND DRAWINGS FOR SCOPE OF ABATEMENT. NOTIFY OWNER IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED BEYOND THOSE IDENTIFIED IN THE DESIGN DOCUMENTS.
4. REFER TO M/ E/ P DRAWINGS FOR EXTENT OF RELATED DEMOLITION.
5. REMOVE ALL EXISTING FLOORING, FINISHES AND CEILINGS UNLESS OTHERWISE NOTED.
6. REMOVE ALL EXISTING WALL MOUNTED CHALKBOARDS, WHITEBOARDS, TACKBOARDS, SIGNAGE AND RACEWAY.

DEMOLITION LEGEND

AREA NOT IN SCOPE

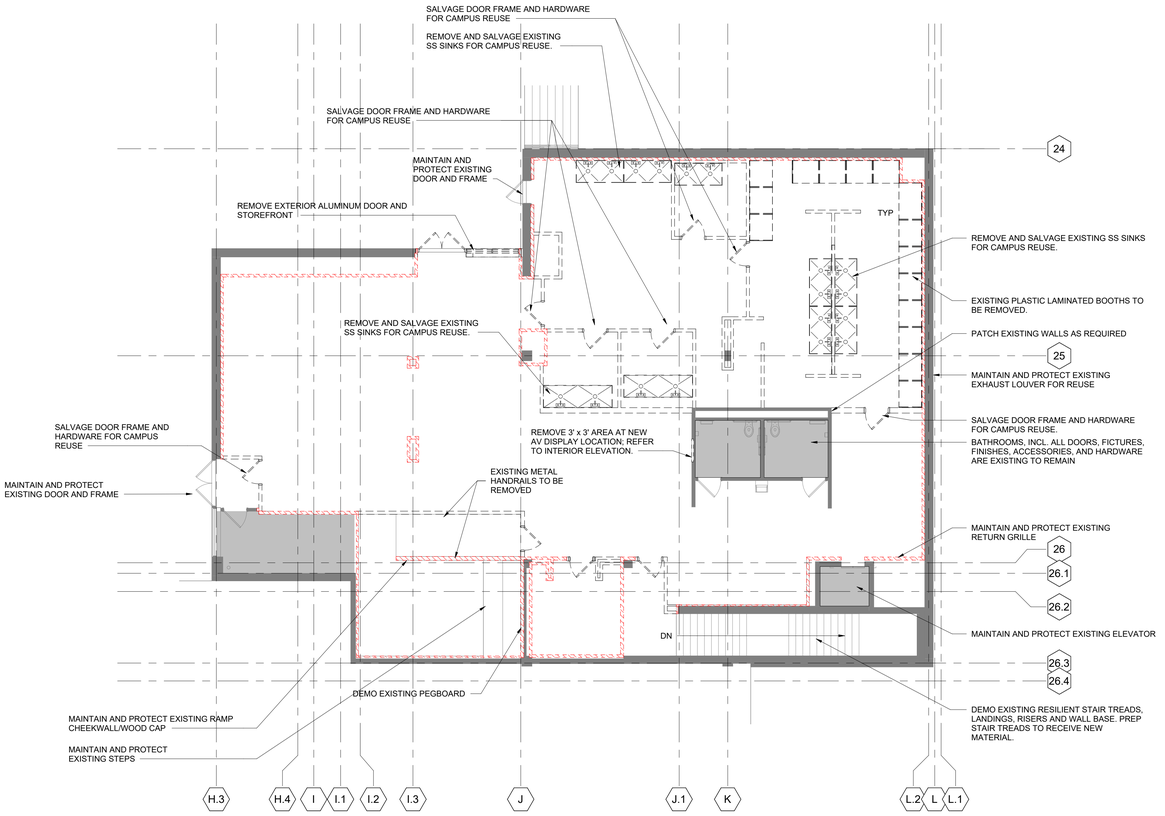
EXISTING PARTITION TO REMAIN

EXISTING GWB PARTITION TO BE REMOVED

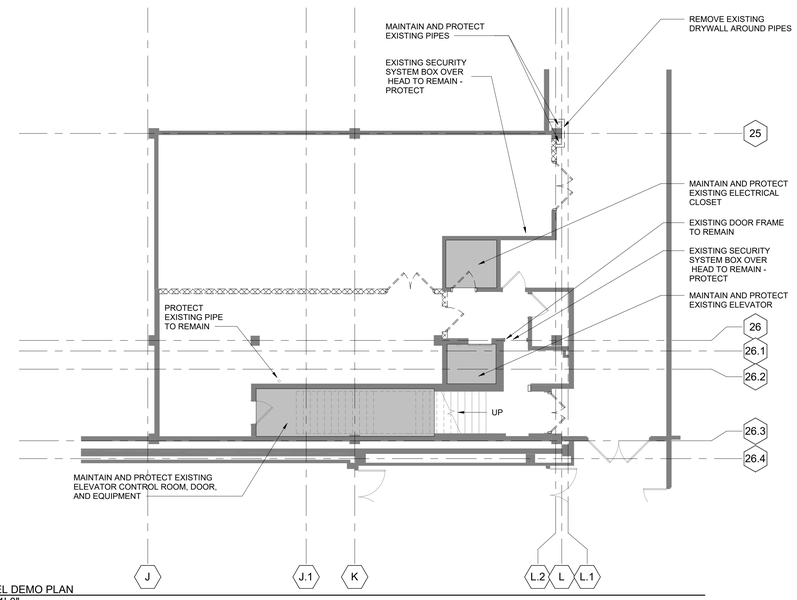
EXISTING CMU PARTITION TO BE REMOVED

EXISTING DOOR AND FRAME TO BE REMOVED
SALVAGE DOORS AS NOTED

REMOVE EXISTING DRYWALL, EXISTING METAL STUDS TO REMAIN, REFER TO HAZARDOUS BUILDING MATERIALS DRAWINGS FOR MORE INFORMATION. NEW DRYWALL TO BE INSTALLED IN PLACE AND TO MATCH PARTITION TYPE 20 ON A8.00. PRIOR TO INSTALLATION OF NEW DRYWALL COORDINATE LOCATIONS NEW AV AND POWER DEVICES.



1 UPPER LEVEL DEMO PLAN
Scale: 1/8" = 1'-0"



2 LOWER LEVEL DEMO PLAN
Scale: 1/8" = 1'-0"

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DEMO PLANS

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DEMOLITION REFLECTED CEILING PLAN NOTES

1. ALL DIMENSIONS AND CONFIGURATIONS OF EXISTING ELEMENTS SHALL BE VERIFIED IN THE FIELD.
2. DEMOLISH ALL EXISTING CEILINGS, GRIDS, SUSPENSION SYSTEMS, LIGHT FIXTURES, AND ASSOCIATED FASTENERS UNLESS OTHERWISE NOTED. PROTECT ALL OTHER EXISTING ELEMENTS TO REMAIN. CONTRACTOR IS TO PROVIDE TEMPORARY LIGHTING IN AREAS WHERE EXISTING LIGHTING HAS BEEN REMOVED.
3. REFER TO HAZARDOUS BUILDING MATERIALS SPECIFICATIONS AND DRAWINGS FOR SCOPE OF ABATEMENT. NOTIFY OWNER IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED BEYOND THOSE IDENTIFIED IN THE DESIGN DOCUMENTS.
4. REFER TO M/ E/ P DRAWINGS FOR EXTENT OF RELATED DEMOLITION.

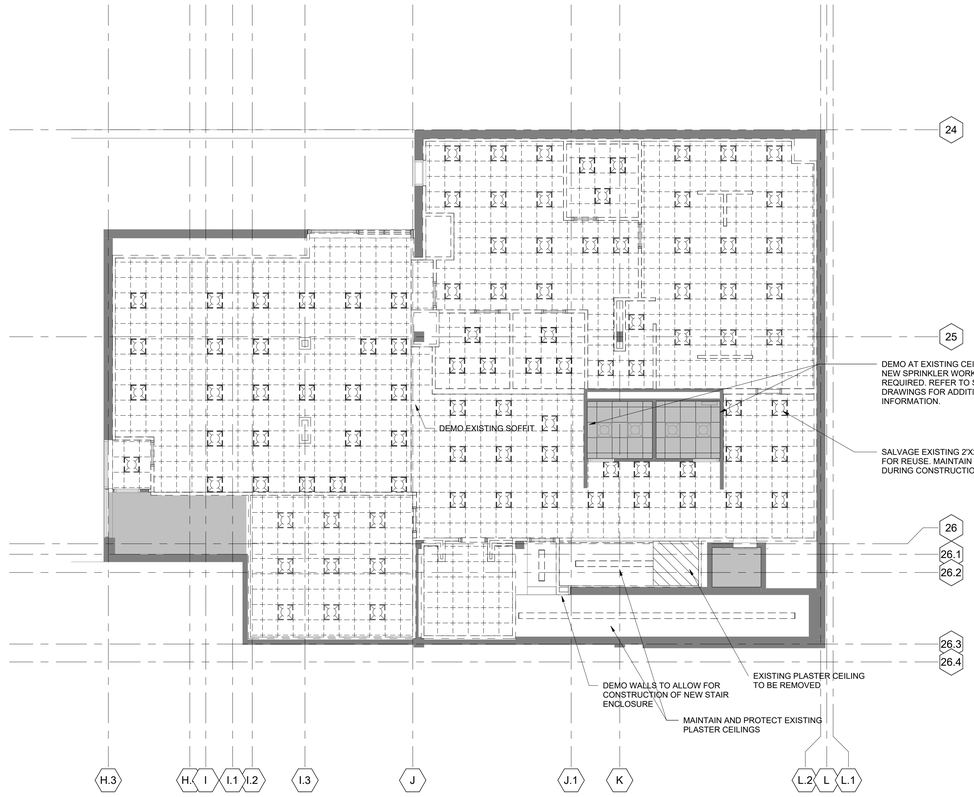
DEMOLITION LEGEND

AREA NOT IN SCOPE

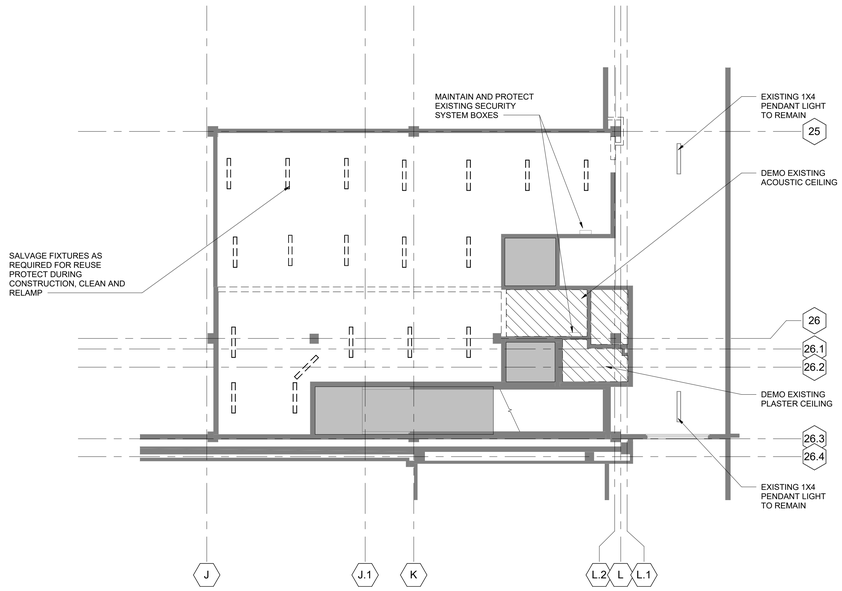
EXISTING ACT TO BE REMOVED

EXISTING GWB / PLASTER CEILING TO BE REMOVED

NO CEILING PRESENT/EXISTING CEILING TO REMAIN



2 UPPER LEVEL DEMO REFLECTED CEILING PLAN
Scale: 1/8" = 1'-0"



1 LOWER LEVEL DEMO REFLECTED CEILING PLAN
Scale: 1/8" = 1'-0"

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DEMO REFLECTED CEILING PLANS

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LEGEND

AREA NOT IN SCOPE

EXISTING WALL TO REMAIN

PARTITION

DOOR AND FRAME

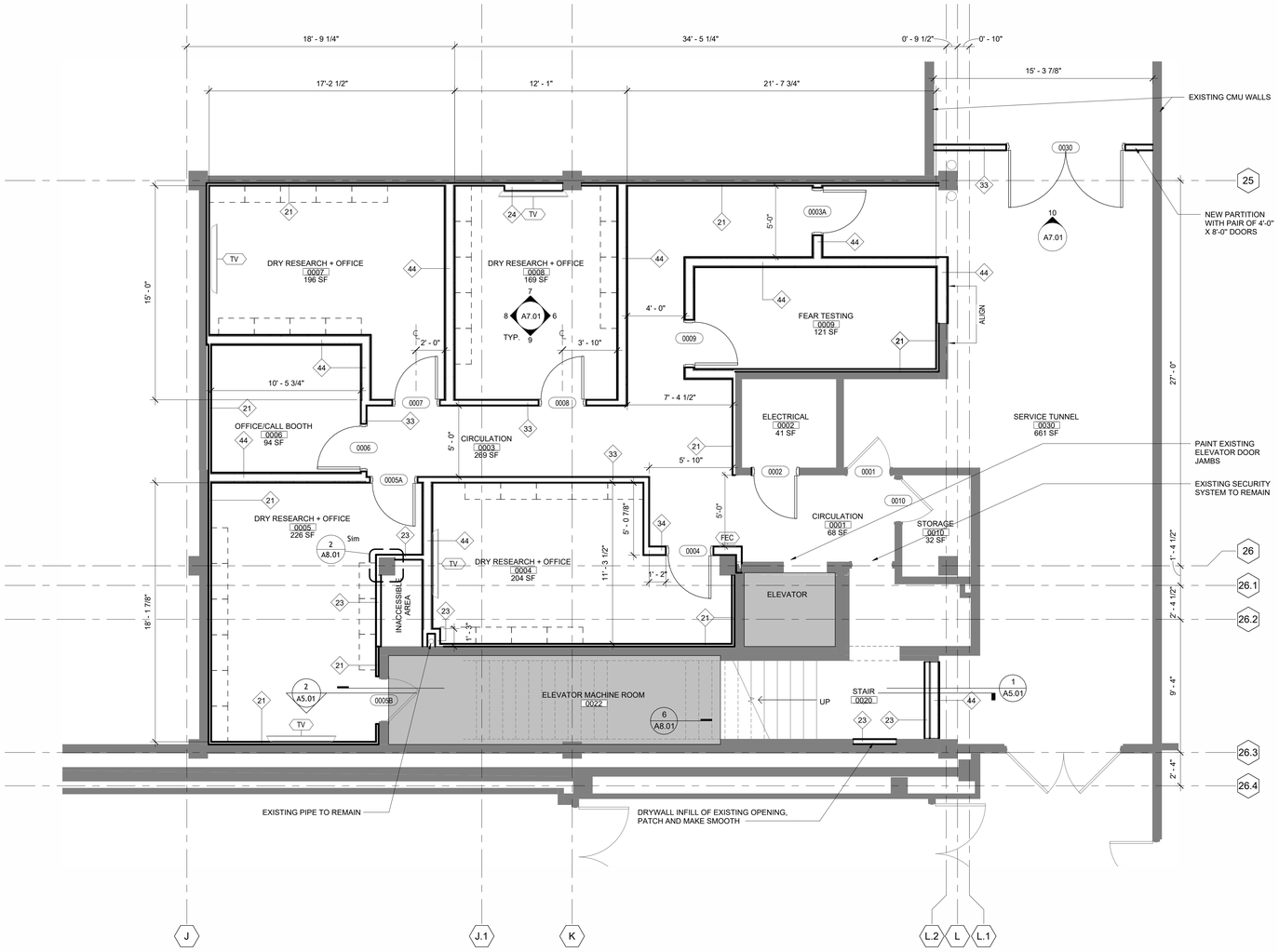
DRY RESEARCH SHELVES (WS2)
14" x 30"

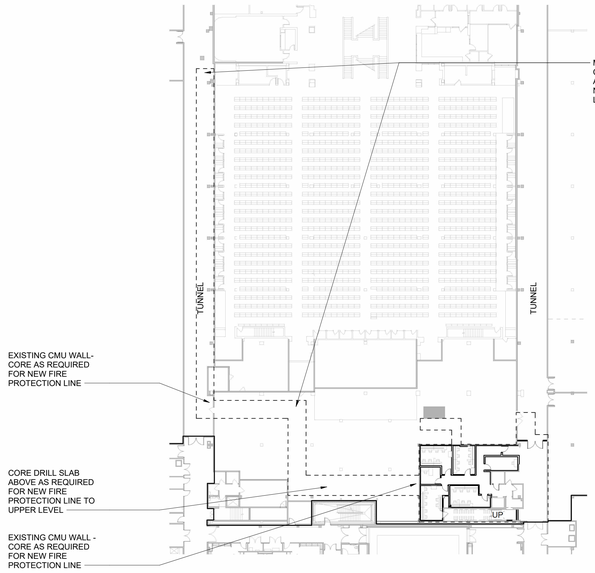
WET RESEARCH CABINETS
12" x 24"

ELECTRICAL RACEWAYS

FLOOR PLAN GENERAL NOTES

1. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING ELEMENTS IN FIELD. NOTIFY ARCHITECT OF DISCREPANCIES THAT AFFECT REQUIRED CLEARANCES OR DESIGN INTENT.
2. REFER TO A7 SERIES FOR TYPICAL INTERIOR ELEVATIONS.
3. REFER TO A8.00 FOR PARTITION TYPES AND TYPICAL DETAILS. FIRE RATINGS ARE NOTED ON THE LIFE SAFETY DRAWINGS.
4. REFER TO A8.10 FOR TYPICAL DOOR TYPES AND SCHEDULE.
5. REFER TO A9 SERIES FOR REFLECTED CEILING PLANS.
6. REFER TO A10 SERIES FOR FINISHES.
7. FOR CLARITY, ACOUSTICAL INSULATION IN WALLS IS NOT SHOWN IN FLOOR PLANS. SEE PARTITION TYPES FOR LOCATIONS.
8. TYPICAL INTERIOR WALLS ARE AS FOLLOWS, U.N.O.:
   - TYPICAL INTERIOR WALL – TYPE 33
   - TYPICAL WALL ACCESSIBLE FROM ONE SIDE ONLY – TYPE 23
   - TYPICAL MECHANICAL SHAFT WALLS – TYPE 64, 2HR RATED
9. INTERIOR PARTITIONS THAT FALL ON COLUMN LINES SHALL BE CENTERED ON THE COLUMN LINE, UNLESS NOTED OTHERWISE
10. ALL DIMENSIONS ARE TO FACE OF FINISH, UNLESS NOTED OTHERWISE.
11. DOORS ARE TO BE LOCATED 4" FROM CORNER OF ROOM, UNLESS NOTED OTHERWISE.
12. SEPARATE ALL RECEPTACLES AND BACK BOXES BY AT LEAST ONE STUD BAY - DO NOT LOCATE BOXES BACK-TO-BACK OR WITHIN THE SAME STUD BAY. PROVIDE ACOUSTICAL BACKER BOXES AT OUTLETS LOCATED IN SOUND-RATED PARTITIONS. REFER TO SHEET A8.00.
13. EXTEND FLOOR FINISH UNDER ALL CASEWORK, APPLY SPECIFIED BASE TO ALL EXPOSED SIDES OF CASEWORK, INCLUDING KNEE SPACES.
14. FURNITURE IS SHOWN FOR COORDINATION ONLY, NOT IN CONTRACT. SEE FURNITURE PLANS FOR FURNITURE LOCATIONS.
15. SEE A10.00 TACK BOARD AND MARKER BOARD LOCATIONS
16. PROVIDE SOLID WOOD BLOCKING AT ALL WALL MOUNTED DOOR STOP LOCTIONS, CASEWORK MOUNTING LOCATIONS, AV DISPLAY LOCATIONS, AND OTHER LOCATIONS AS NOTED ON THE DRAWINGS AND SPECIFICATIONS.





2 LOWER LEVEL EXTENT OF WORK
Scale: 1/32" = 1'-0"

1 LOWER LEVEL FLOOR PLAN
Scale: 1/4" = 1'-0"

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LOWER LEVEL FLOOR PLAN

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DRAWING NO.:

A1.00

LEGEND

AREA NOT IN SCOPE

EXISTING WALL TO REMAIN

PARTITION

DOOR AND FRAME

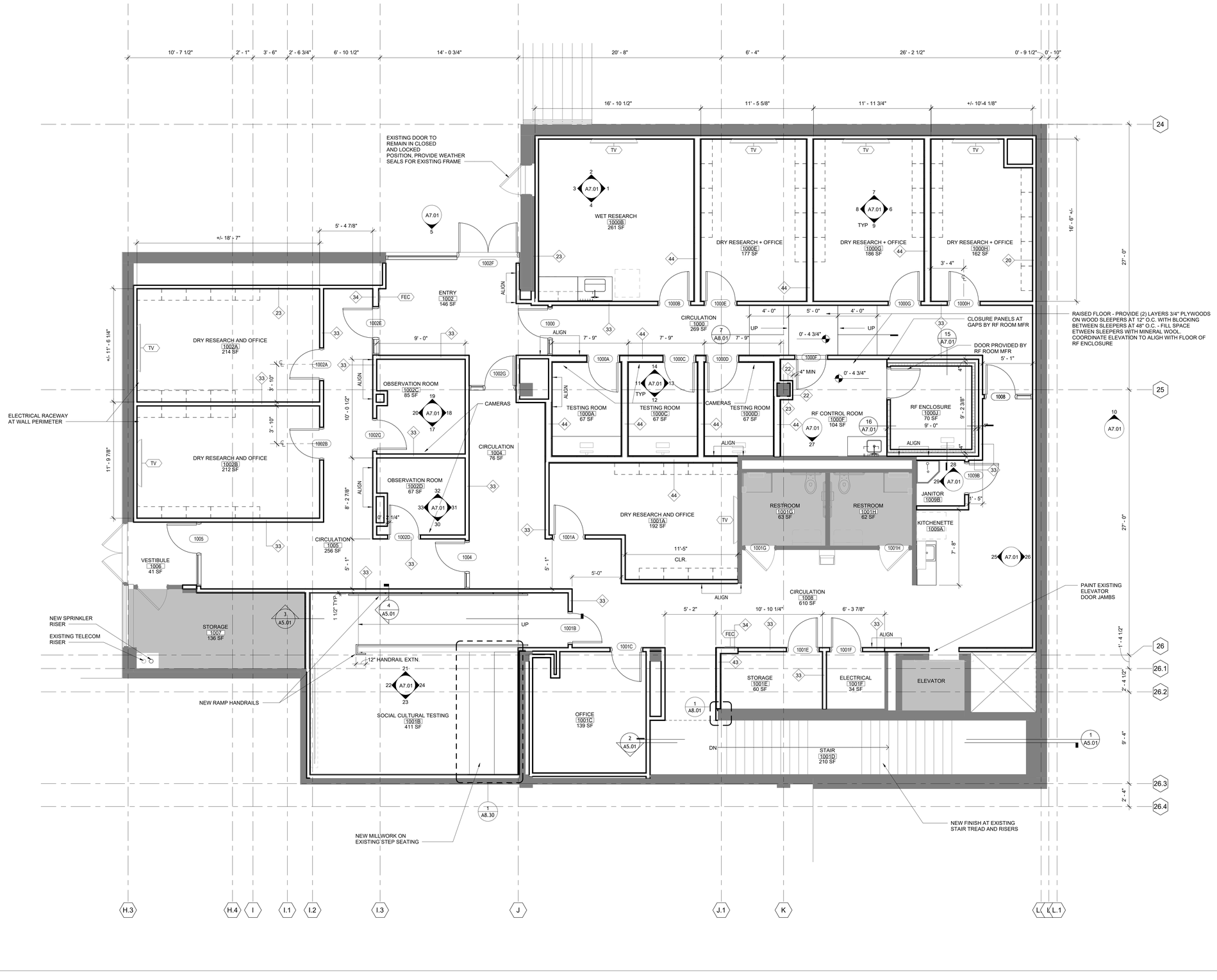
DRY RESEARCH SHELVES (WS2)
14" x 30"

WET RESEARCH CABINETS (CB1)
12" x 24"

ELECTRICAL RACEWAYS

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   - TYPICAL WALL ACCESSIBLE FROM ONE SIDE ONLY – TYPE 23
   - TYPICAL MECHANICAL SHAFT WALLS – TYPE 64, 2HR RATED
9. INTERIOR PARTITIONS THAT FALL ON COLUMN LINES SHALL BE CENTERED ON THE COLUMN LINE, UNLESS NOTED OTHERWISE
10. ALL DIMENSIONS ARE TO FACE OF FINISH, UNLESS NOTED OTHERWISE.
11. DOORS ARE TO BE LOCATED 4" FROM CORNER OF ROOM, UNLESS NOTED OTHERWISE.
12. SEPARATE ALL RECEPTACLES AND BACK BOXES BY AT LEAST ONE STUD BAY - DO NOT LOCATE BOXES BACK-TO-BACK OR WITHIN THE SAME STUD BAY. PROVIDE ACOUSTICAL BACKER BOXES AT OUTLETS LOCATED IN SOUND-RATED PARTITIONS.
13. EXTEND FLOOR FINISH UNDER ALL CASEWORK. APPLY SPECIFIED BASE TO ALL EXPOSED SIDES OF CASEWORK, INCLUDING KNEE SPACES.
14. FURNITURE IS SHOWN FOR COORDINATION ONLY, NOT IN CONTRACT. SEE FURNITURE PLANS FOR FURNITURE LOCATIONS.
15. SEE A10.00 TACK BOARD AND MARKER BOARD LOCATIONS
16. PROVIDE SOLID WOOD BLOCKING AT ALL WALL MOUNTED DOOR STOP LOCTIONS, CASEWORK MOUNTING LOCATIONS, AV DISPLAY LOCATIONS, AND OTHER LOCATIONS AS NOTED ON THE DRAWINGS AND SPECIFICATIONS.



State University Construction Fund

Purchase College
STATE UNIVERSITY OF NEW YORK

291029-04 REHABILITATE NATURAL SCIENCES BUILDING - BOOKSTORE SURGE RENOVATION

Purchase College
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arch@goodyclancy.com
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REGISTRATION

REGISTERED ARCHITECT ALFRED TODD SYMONDS STATE OF NEW YORK 043749-01

TRUE NORTH
PLAN NORTH

BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

REVISIONS

ISSUE

UPPER LEVEL FLOOR PLAN

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GOODY CLANCY PROJECT NUMBER: 24006

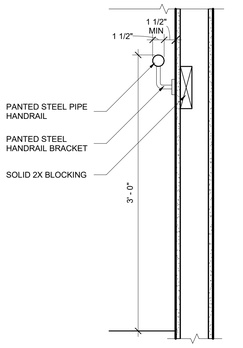
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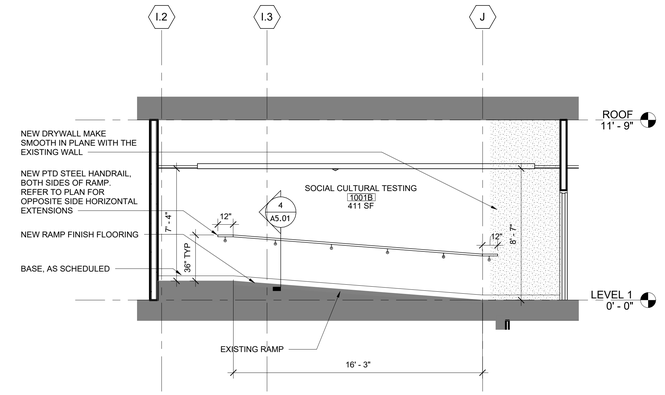
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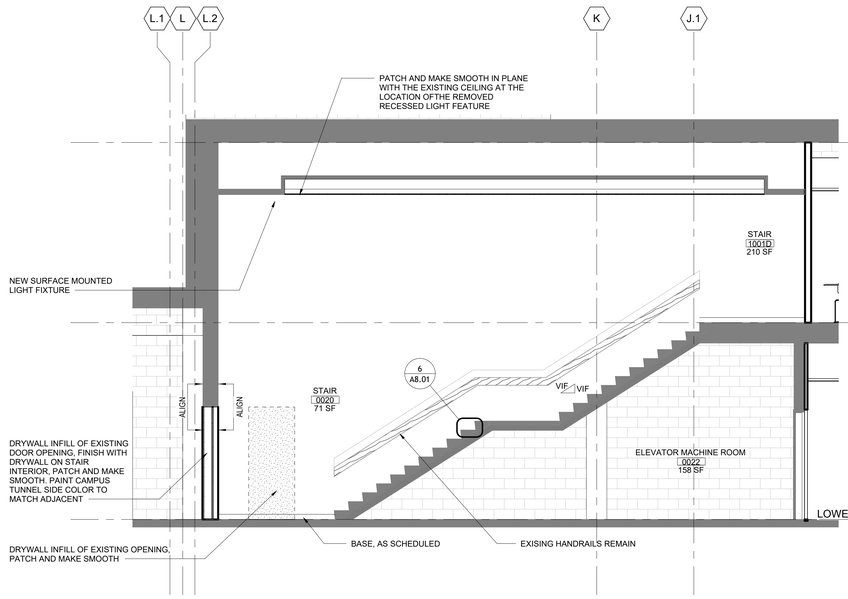
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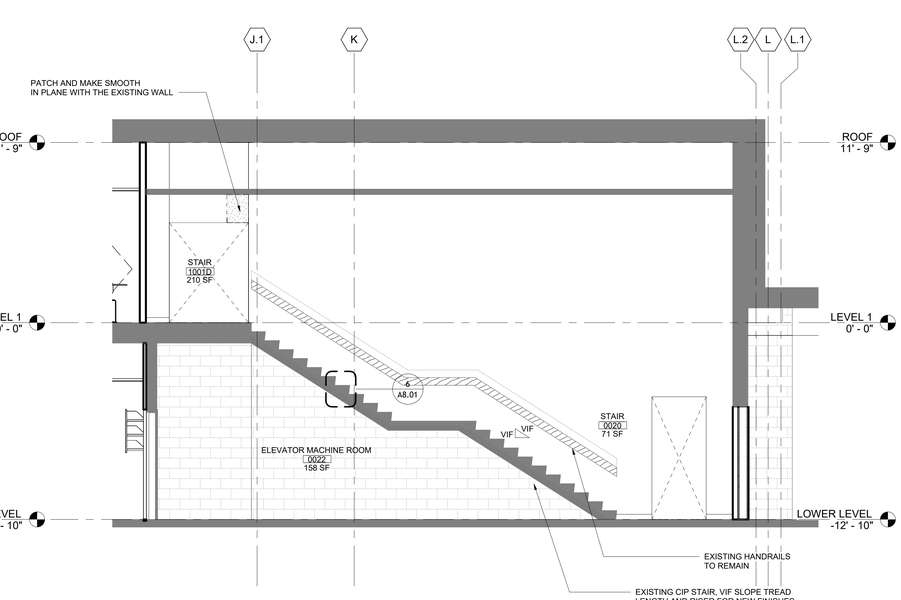
4 RAILING DETAIL
Scale: 1 1/2" = 1'-0"



3 SOCIAL CULTURAL TESTING RAMP SECTION - EAST
Scale: 1/4" = 1'-0"



2 STAIR SECTION - WEST
Scale: 1/4" = 1'-0"



1 STAIR SECTION - EAST
Scale: 1/4" = 1'-0"

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043749-01
STATE OF NEW YORK

TRUE NORTH
PLAN NORTH

BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

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STAIR & RAMP SECTIONS AND DETAILS

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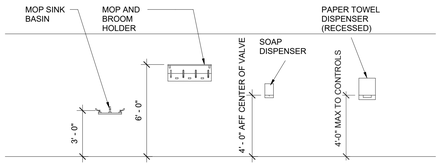
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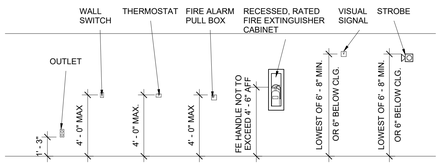
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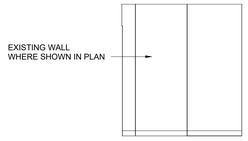
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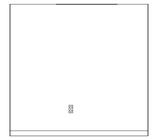




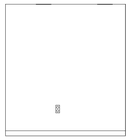
24006 TYP MOUNTING HEIGHTS (ANSI)
Scale: 1/4" = 1'-0"



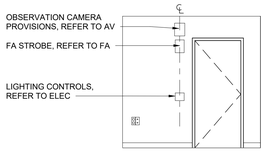
33 OBSERVATION ROOM2 - WALL D
Scale: 1/4" = 1'-0"



32 OBSERVATION ROOM2 - WALL C
Scale: 1/4" = 1'-0"

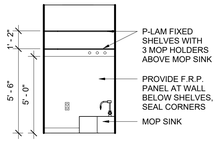


31 OBSERVATION ROOM2 - WALL B
Scale: 1/4" = 1'-0"

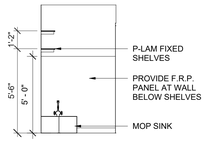


30 OBSERVATION ROOM2 - WALL A
Scale: 1/4" = 1'-0"

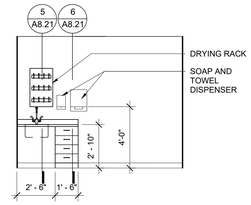
ENLARGED ELEVATION GENERAL NOTES
1. REFER TO A10.00 FOR FINISH SCHEDULE.
2. REFER TO A8.10 FOR DOOR SCHEDULE, TYPES AND DETAILS.
3. REFER TO A8.20 FOR LAB CASEWORK TYPES AND DETAILS.
4. REFER TO A8.21 FOR TYPICAL CASEWORK DETAILS.
5. REFER TO A8.01 FOR INTERIOR DETAILS.
6. REFER TO A10.00 FOR ACCENT PAINT FINISH LOCATIONS ON WALL



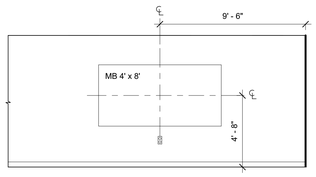
29 JANITORS CLOSET ELEVATION - NORTH
Scale: 1/4" = 1'-0"



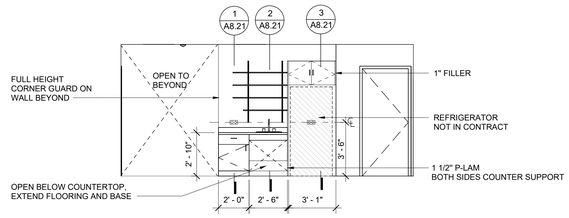
28 JANITORS CLOSET ELEVATION - EAST
Scale: 1/4" = 1'-0"



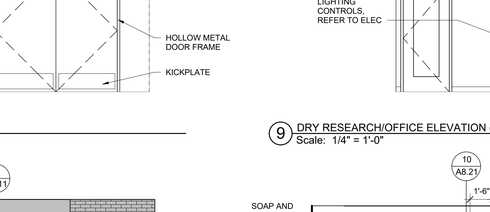
27 RF CONTROL ROOM - WEST
Scale: 1/4" = 1'-0"



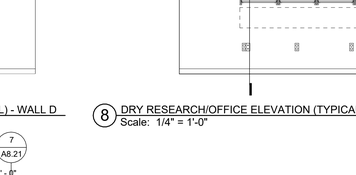
26 KITCHENETTE AREA ELEVATION
Scale: 1/4" = 1'-0"



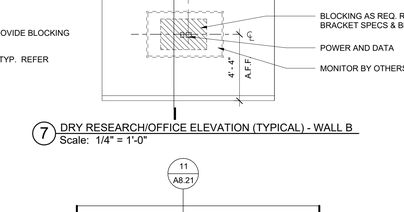
25 KITCHENETTE ELEVATION
Scale: 1/4" = 1'-0"



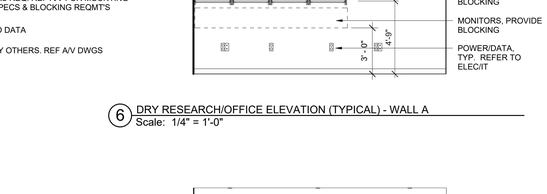
24 SOCIAL CULTURAL TESTING - WALD D
Scale: 1/4" = 1'-0"



23 SOCIAL CULTURAL TESTING - WALL C
Scale: 1/4" = 1'-0"



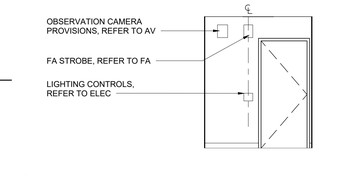
22 SOCIAL CULTURAL TESTING - WALL B
Scale: 1/4" = 1'-0"



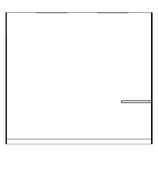
21 SOCIAL CULTURAL TESTING - WALL A
Scale: 1/4" = 1'-0"

16 RF CONTROL AND ENCLOSURE ROOM
Scale: 1/4" = 1'-0"

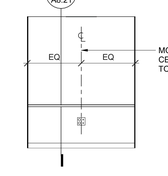
15 RF ENCLOSURE ROOM
Scale: 1/4" = 1'-0"



20 OBSERVATION ROOM - WALL D
Scale: 1/4" = 1'-0"

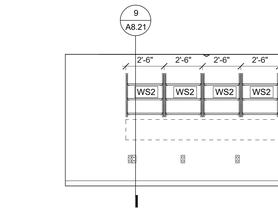


19 OBSERVATION ROOM - WALL C
Scale: 1/4" = 1'-0"

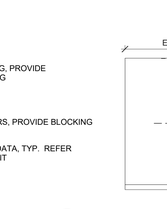


18 OBSERVATION ROOM - WALL B
Scale: 1/4" = 1'-0"

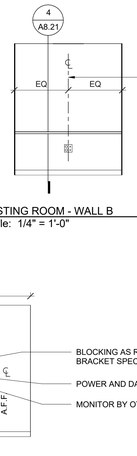
17 OBSERVATION ROOM - WALL A
Scale: 1/4" = 1'-0"



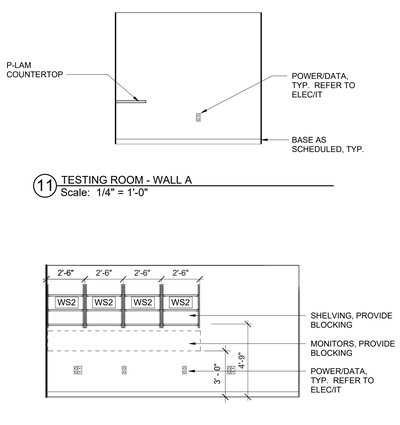
14 TESTING ROOM - WALL D
Scale: 1/4" = 1'-0"



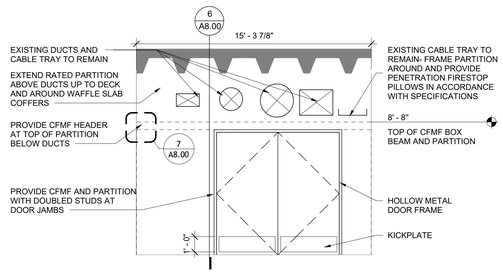
13 TESTING ROOM - WALL C
Scale: 1/4" = 1'-0"



12 TESTING ROOM - WALL B
Scale: 1/4" = 1'-0"



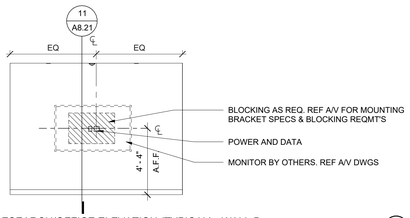
11 TESTING ROOM - WALL A
Scale: 1/4" = 1'-0"



10 LOWER FLOOR TUNNEL DOOR
Scale: 1/4" = 1'-0"

9 DRY RESEARCH/OFFICE ELEVATION (TYPICAL) - WALL D
Scale: 1/4" = 1'-0"

8 DRY RESEARCH/OFFICE ELEVATION (TYPICAL) - WALL C
Scale: 1/4" = 1'-0"



7 DRY RESEARCH/OFFICE ELEVATION (TYPICAL) - WALL B
Scale: 1/4" = 1'-0"

6 DRY RESEARCH/OFFICE ELEVATION (TYPICAL) - WALL A
Scale: 1/4" = 1'-0"

5 ENTRY ELEVATION
Scale: 1/4" = 1'-0"

4 WET RESEARCH ELEVATION - WEST
Scale: 1/4" = 1'-0"

3 WET RESEARCH ELEVATION - NORTH
Scale: 1/4" = 1'-0"

2 WET RESEARCH ELEVATION - EAST
Scale: 1/4" = 1'-0"

1 WET RESEARCH ELEVATION - SOUTH
Scale: 1/4" = 1'-0"

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TYPICAL INTERIOR ELEVATIONS

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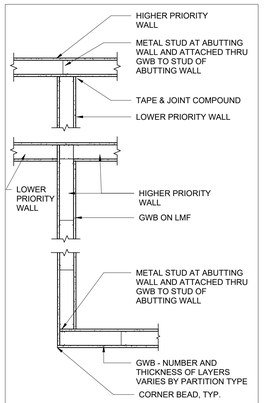
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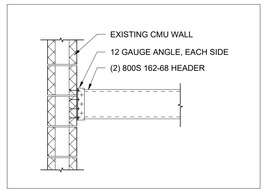
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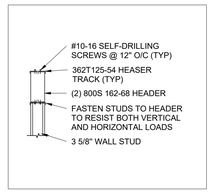
NOTE: MAINTAIN CONTINUITY OF ALL LAYERS OF HIGHER PRIORITY WALL AT INTERSECTION WITH LOWER PRIORITY WALL AS INDICATED. FOR WALL PRIORITIES REFERENCE PARTITION PRIORITY LEGEND.

PARTITION PRIORITY LEGEND	
TWO HR FIRE & SMOKE PARTITION	PRIORITY 1 - HIGHEST
TWO HR FIRE PARTITION	PRIORITY 2
TWO HR SHAFT PARTITION	PRIORITY 2
ONE HR FIRE & SMOKE PARTITION	PRIORITY 3
ONE HR FIRE PARTITION	PRIORITY 4
NON RATED PARTITION	PRIORITY 5 - LOWEST
* TABLE DOES NOT INCLUDE 3 AND 4 HR RATED PARTITIONS	

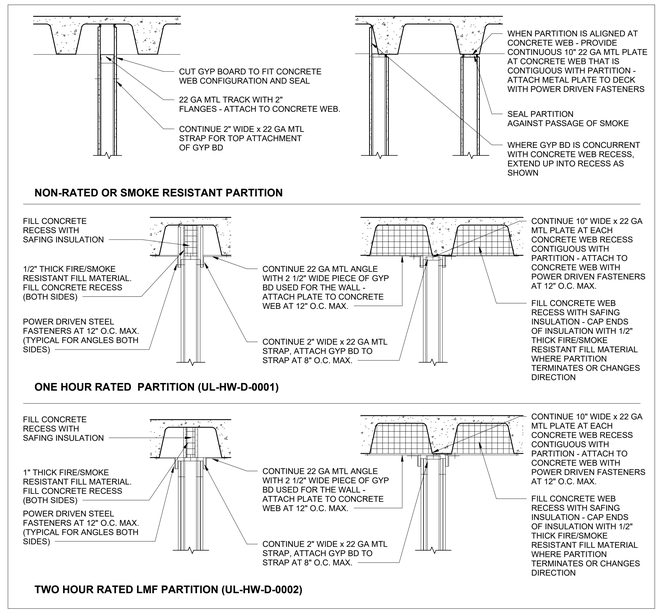
5 STANDARDS - RATED WALL INTERSECTIONS
Scale: 3/4" = 1'-0"



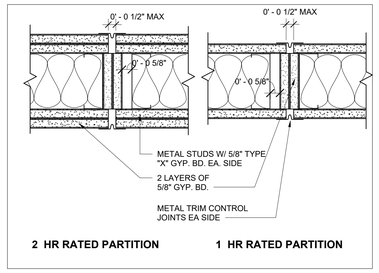
7 CFMF PARTITION HEADER
Scale: 3/4" = 1'-0"



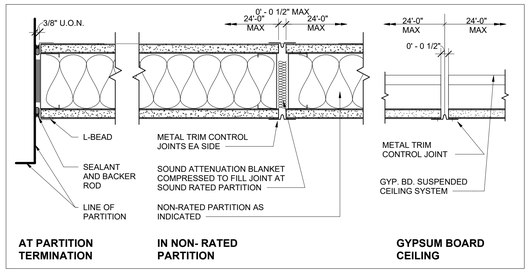
6 CFMF PARTITION
Scale: 3/4" = 1'-0"



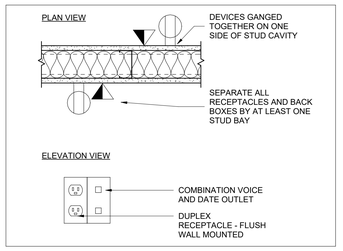
4 STANDARDS - PARTITION HEAD DETAILS
Scale: 3/4" = 1'-0"



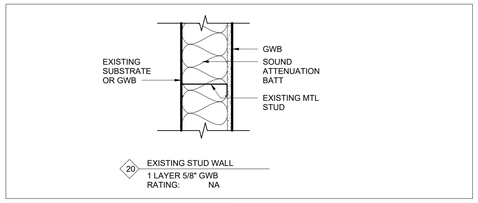
3 STANDARDS - RATED PARTITION CONTROL JOINT DETAILS
Scale: 3" = 1'-0"



2 STANDARDS - NON-RATED PARTITION CONTROL JOINT DETAILS
Scale: 3" = 1'-0"

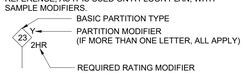


8 TYPICAL DEVICE DIAGRAM
Scale: 1 1/2" = 1'-0"



1 INTERIOR PARTITION TYPES AND NOTES
Scale: 1 1/2" = 1'-0"

PARTITION TYPE REFERENCE
THE FOLLOWING IS AN EXAMPLE OF A PARTITION TYPE REFERENCE, AS IT IS USED ON A FLOOR PLAN, WITH SAMPLE MODIFIERS.



REQUIRED RATING MODIFIER
REFER TO LIFE SAFETY PLANS FOR REQUIRED RATING. IN CASE OF DISCREPANCEY BETWEEN LIFE SAFETY PLANS AND ARCHITECTURAL PLANS, LIFE SAFETY PLAN SHALL PREVAIL.

RATED CONSTRUCTION IS REQUIRED WHERE PARTITION TYPE IS MODIFIED AS NOTED BELOW:
- 30M: PROVIDE 30 MINUTE RATED WALL
- 1HR: PROVIDE 1 HOUR RATED WALL
- 2HR: PROVIDE 2 HOUR RATED WALL
- 3HR: PROVIDE 3 HOUR RATED WALL

PARTITION HEIGHT MODIFIER
ALL PARTITIONS SHALL EXTEND FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURAL SLAB ABOVE EXCEPT WHERE OTHERWISE SPECIFICALLY NOTED. EXTEND ALL LAYERS OF GWB TO DECK, EXCEPT THAT SPECIALTY BOARD MAY BE REPLACED WITH NORMAL BOARD FROM 6" ABOVE CEILING UP.

- Y EXTEND STUDS AND GWB TO 6" ABOVE FINISH CEILING ONLY
- Z PARTIAL HEIGHT PARTITION OR SPECIAL HEIGHT CONDITION - REFER TO PLAN NOTES AND INTERIOR ELEVATIONS FOR SPECIFICS

NOTES
1. REFER TO LIFE SAFETY PLANS AND FLOOR PLANS FOR LOCATIONS OF FIRE RATED PARTITIONS. WHERE FIRE RATING IS CALLED FOR IN LIFE SAFETY PLAN OR BY PARTITION TYPE CALL OUT ON PLANS, PROVIDE FIRE RATED ASSEMBLY IN FULL COMPLIANCE WITH REFERENCED UNDERWRITERS LABORATORIES, WARNOCK HERSEY, OR FACTORY MUTUAL TESTED SYSTEM.
2. SLEEVE AND SEAL ALL WALL PENETRATIONS. REFER TO SPECIFICATIONS FOR EXECUTION REQUIREMENTS.
3. PROVIDE DECK FILLER AND SEALANT AT INTERSECTIONS OF PARTITIONS AND UNDERSIDE OF STRUCTURE. FOR HEAD CONDITIONS AT RATED WALLS SEE DETAIL 4.
4. REFER TO SPECIFICATION REQUIREMENTS FOR ADDITIONAL REQUIREMENTS FOR SEALANT AND TREATMENT OF WALL PENETRATIONS AT SPECIALTY AREAS INCLUDING BUT NOT LIMITED TO VIVARIUMS, SPECIALTY LABS, MECHANICAL AREAS, AND SPECIAL CONTAINMENT AREAS.
5. REFER TO FINISH SCHEDULE FOR LOCATIONS OF FINISHES INCLUDING CERAMIC TILE, WOODWORK, AND FRP. "OVERALL WIDTH" SHOWN FOR PARTITION TYPES IS EXCLUSIVE OF THICKNESS OF APPLIED FINISH MATERIALS.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR CROSS-BRIDGING HORIZONTAL BRACING AND OTHER REQUIREMENTS FOR PARTITIONS.
7. PROVIDE DOUBLE STUD JAMBS UP TO STRUCTURE ABOVE AT ALL OPENINGS. REINFORCE OPENING HEADS AND SILLS AS REQUIRED TO MEET DEFLECTION CRITERIA
8. UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS, PROVIDE 5/8" TYPE 'X' FIRE RATED GWB AT ALL PARTITIONS.
9. PROVIDE SEALANT JOINT BETWEEN BOTTOM OF GWB AND FLOOR SLAB AT ALL PARTITIONS.
10. PROVIDE WOOD BLOCKING PER SPECIFICATION REQUIREMENTS FOR ALL CLOSETS, CASEWORK, COUNTERS, CABINETS, SHELVES ,DOOR STOPS, RAILINGS, GRAB BARS, SPECIALTIES, MILLWORK, AND OTHER ITEMS ATTACHED TO AND SUPPORTED FROM WALLS TO PROVIDE SOLID ATTACHMENT. PROVIDE ADDITIONAL BLOCKING AT ANY LOCATIONS INDICATED IN PLANS, SPECIFICATIONS OR DETAILS.
11. REFER TO PARTITION TYPES FOR STC RATINGS. WHERE TWO RATINGS ARE SHOWN, THE FIRST IS FOR THE PARTITION WITHOUT INSULATION, AND THE SECOND IS WITH.

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REGISTRATION

REGISTERED ARCHITECT ALFRED TODD SYMONDS 043749 STATE OF NEW YORK

TRUE NORTH
PLAN NORTH

BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

REVISIONS

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INTERIOR PARTITION TYPES & WALL ASSEMBLIES

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GOODY CLANCY PROJECT NUMBER:24006

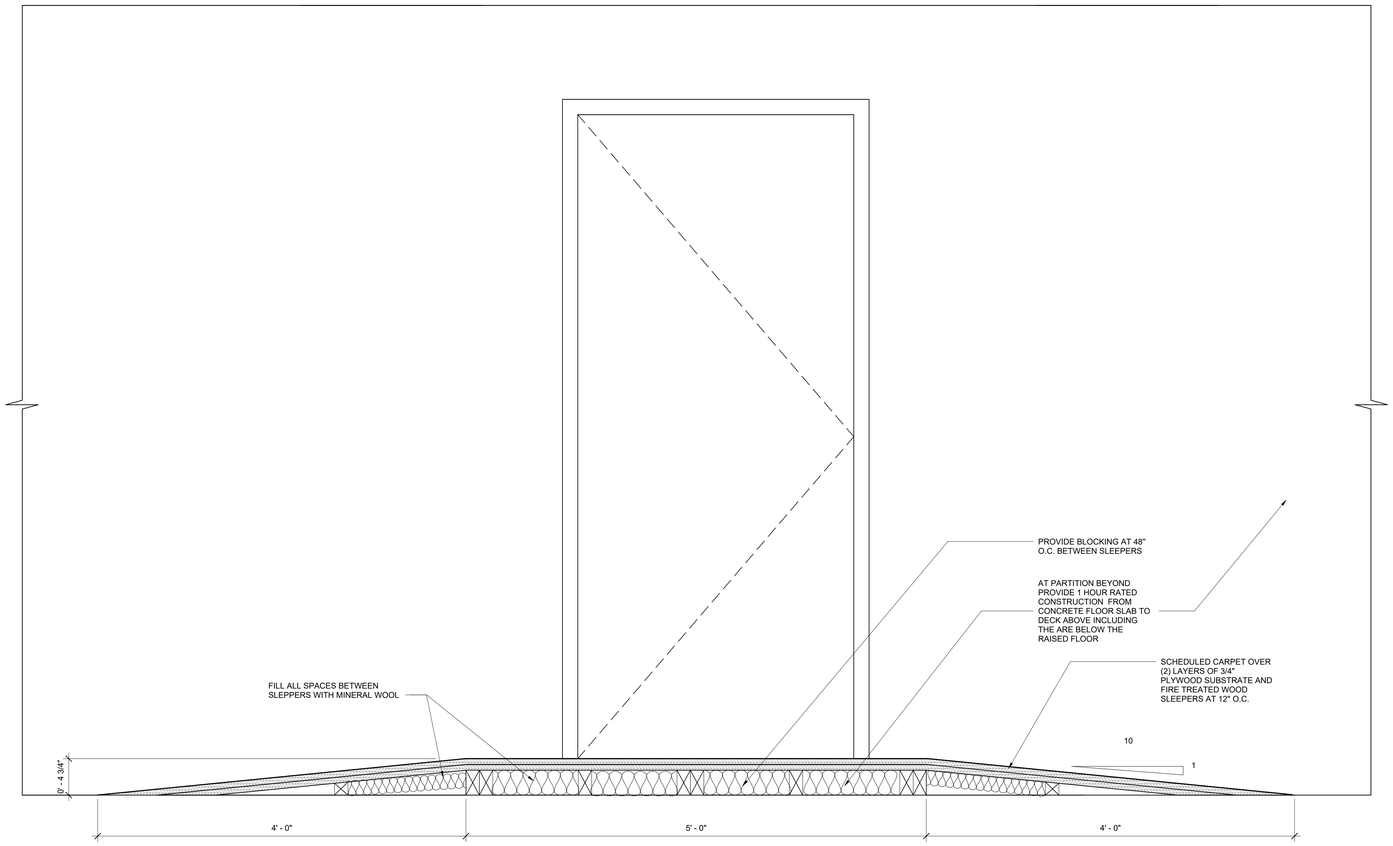
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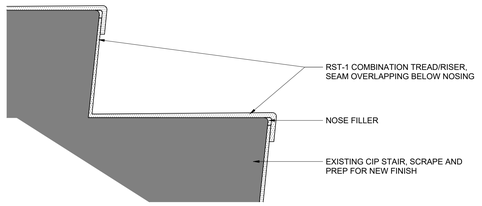
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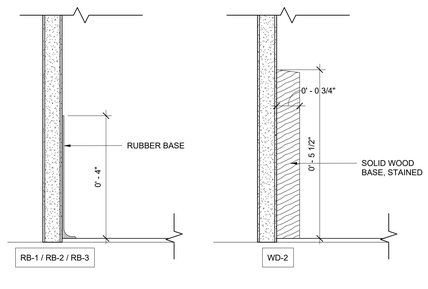
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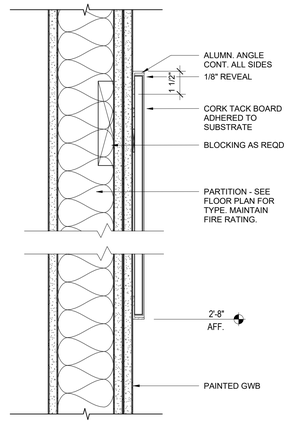
7 RAMP TO RF CONTROL ROOM
Scale: 1 1/2" = 1'-0"



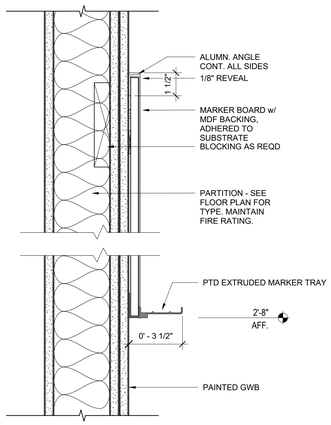
6 FLOOR TRANSITION - STAIR TREAD/RISER
Scale: 3" = 1'-0"



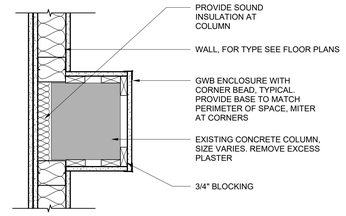
5 TYPICAL BASE DETAILS
Scale: 6" = 1'-0"



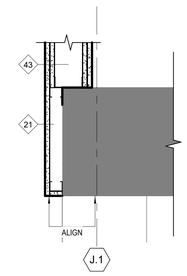
4 TACK BOARD SECTION
Scale: 3" = 1'-0"



3 MARKER BOARD SECTION
Scale: 3" = 1'-0"



2 WALL AT EXISTING COLUMN - GWB ENCLOSURE TYP
Scale: 1 1/2" = 1'-0"



1 PLAN DETAIL - NEW PARTITION AT STAIR
Scale: 1 1/2" = 1'-0"

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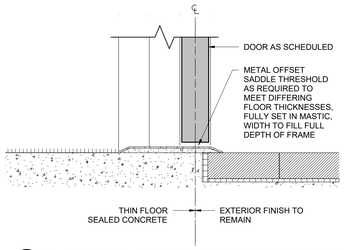
DOOR AND FRAME SCHEDULE

DOOR NO.	ROOM NAME	ROOM NO.	DOOR SIZE			DOOR INFORMATION					FRAME INFORMATION				DETAIL LOCATION			HDWR	LABEL	REMARKS
			W	HT	THK	TYPE	PAIR	MATL	FINISH	GLAZ	TYPE	MATL	FINISH	GLAZ	HEAD	JAMB	SILL			
LOWER LEVEL																				
0001	CIRCULATION	0001	3' - 0"	7' - 0"	0' - 1 3/4"	ETR	(1)	HM	PTD	-	ETR	HM	PTD	-	ETR	ETR	14	10	20 MIN	
0002	ELECTRICAL	0002	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	14	4	20 MIN	
0003A	CIRCULATION	0003	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	7	3/8	14	3	20 MIN	CARD READER, ALARM, PANIC HARDWARE
0004	DRY RESEARCH + OFFICE	0004	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	6	20 MIN	
0005A	DRY RESEARCH + OFFICE	0005	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	6	20 MIN	
0005B	ELEVATOR MACHINE ROOM	0022	3' - 0"	7' - 0"	0' - 1 3/4"	ETR	(1)	HM	PTD	-	ETR	HM	PTD	-	ETR	ETR	14	10	60 MIN	
0006	OFFICE/CALL BOOTH	0006	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	1	HM	PTD	-	3	11	12	5	20 MIN	
0007	DRY RESEARCH + OFFICE	0007	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	5	20 MIN	
0008	DRY RESEARCH + OFFICE	0008	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	6	20 MIN	
0009	FEAR TESTING	0009	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	12	9	20 MIN	
0010	STORAGE	0010	3' - 0"	7' - 0"	0' - 1 3/4"	ETR	(1)	HM	PTD	-	ETR	HM	PTD	-	ETR	ETR	14	10		
0030	SERVICE TUNNEL	0030	8' - 0"	8' - 0"	0' - 1 3/4"	AA	(2)	HM	PTD	-	1	HM	PTD	-	3	11	14	2		PROVIDE 14 GAUGE FRAME, PANIC HARDWARE, CARD ACCESS AND KICK PLATE
LEVEL 1																				
1000	CIRCULATION	1000	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	GL-1	2	HM	PTD	GL-1	3	11	12	8		PROVIDE 14 GAUGE FRAME
1000A	TESTING ROOM	1000A	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	15	11	20 MIN	CARD READER
1000B	WET RESEARCH	1000B	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	5	HM	PTD	-	3	11	15	7	20 MIN	
1000C	TESTING ROOM	1000C	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	15	11	20 MIN	CARD READER
1000D	TESTING ROOM	1000D	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	15	11	20 MIN	CARD READER
1000E	DRY RESEARCH + OFFICE	1000E	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	6	20 MIN	
1000F	RF CONTROL ROOM	1000F	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	15	12	20 MIN	CARD READER
1000G	DRY RESEARCH + OFFICE	1000G	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	6	20 MIN	
1000H	DRY RESEARCH + OFFICE	1000H	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	6	20 MIN	
1001A	DRY RESEARCH AND OFFICE	1001A	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	5	20 MIN	
1001B	SOCIAL CULTURAL TESTING	1001B	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	1	HM	PTD	-	3	11	12	11	20 MIN	CARD READER

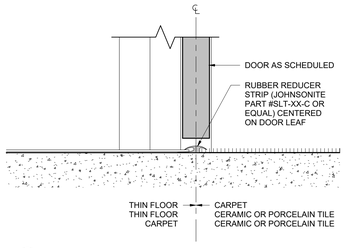
DOOR AND FRAME SCHEDULE

DOOR NO.	ROOM NAME	ROOM NO.	DOOR SIZE			DOOR INFORMATION					FRAME INFORMATION				DETAIL LOCATION			HDWR	LABEL	REMARKS
			W	HT	THK	TYPE	PAIR	MATL	FINISH	GLAZ	TYPE	MATL	FINISH	GLAZ	HEAD	JAMB	SILL			
1001C	OFFICE	1001C	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	1	HM	PTD	-	3	11	12	5	20 MIN	
1001E	STORAGE	1001E	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	15	4	20 MIN	
1001F	ELECTRICAL	1001F	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	15	4	20 MIN	
1001G	RESTROOM	1001G	3' - 0"	7' - 0"	0' - 1 3/4"	ETR	(1)	HM	PTD	-	ETR	HM	PTD	-	ETR	ETR	18	10	20 MIN	
1001H	RESTROOM	1001H	3' - 0"	7' - 0"	0' - 1 3/4"	ETR	(1)	HM	PTD	-	ETR	HM	PTD	-	ETR	ETR	18	10	20 MIN	
1002A	DRY RESEARCH AND OFFICE	1002A	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	6	20 MIN	
1002B	DRY RESEARCH AND OFFICE	1002B	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	-	5	HM	PTD	-	3	11	12	6	20 MIN	
1002C	OBSERVATION ROOM	1002C	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	15	11	20 MIN	CARD READER
1002D	OBSERVATION ROOM	1002D	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD	-	1	HM	PTD	-	3	11	15	12	20 MIN	CARD READER
1002E	CIRCULATION	1005	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	GL-1	2	HM	PTD	GL-1	3	11	12	8		PROVIDE 14 GAUGE FRAME
1002F	ENTRY	1002	6' - 0"	7' - 0"	0' - 1 3/4"	SS	(2)	AL		GL-2	4	AL		GL-2	2/A8.11	2/A8.11	2/A8.11	13		CARD READER, AUTOMATIC OPERATOR, MATCH EXISTING ANODIZED BRONZE FINISH, PANIC HARDWARE
1002G	CIRCULATION	1004	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	GL-1	2	HM	PTD	GL-1	3	11	12	8		PROVIDE 14 GAUGE FRAME
1004	CIRCULATION	1008	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	GL-1	2	HM	PTD	GL-1	3	11	12	8		PROVIDE 14 GAUGE FRAME
1005	VESTIBULE	1006	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	GL-1	3	HM	PTD	GL-1	3	11	12	1		PANIC HARDWARE, AUTOMATIC OPERATOR, PROVIDE 14 GAUGE FRAME
1008	CIRCULATION	1008	3' - 0"	7' - 0"	0' - 1 3/4"	E	(1)	HM	PTD	GL-1	2	HM	PTD	GL-1	3	11	12	8		PROVIDE 14 GAUGE FRAME
1009B	JANITOR	1009B	3' - 0"	7' - 0"	0' - 1 3/4"	A	(1)	HM	PTD		1	HM	PTD		3	11	16	4	20 MIN	

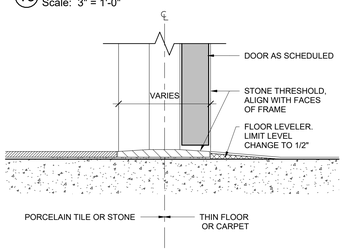
DOOR SCHEDULE GENERAL NOTES
1. SEE SPECIFICATIONS FOR GLASS TYPES
2. SEE DOOR AND FRAME TYPES ON THIS SHEET FOR ADDITIONAL INFORMATION
3. SEE ABBREVIATION ON G0.01 FOR ABBREVIATIONS USED ON THIS SCHEDULE
4. COAT HOOKS TO BE PROVIDED ON THE INSIDE OF OFFICE DOORS. (1) ADA HEIGHT AND (1) STANDARD HEIGHT.



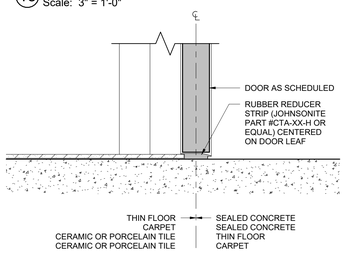
19 SILL TRANSITION - CARPET/WALK OFF MAT TO EXTERIOR
Scale: 3" = 1'-0"



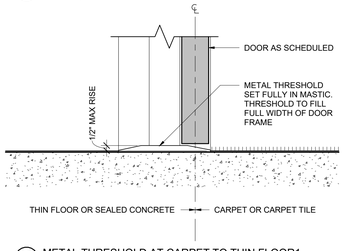
15 SILL TRANS - RUBBER REDUCER TYPE B
Scale: 3" = 1'-0"



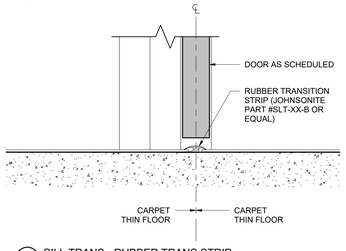
18 STONE THRESHOLD WITH FLOOR LEVELER
Scale: 3" = 1'-0"



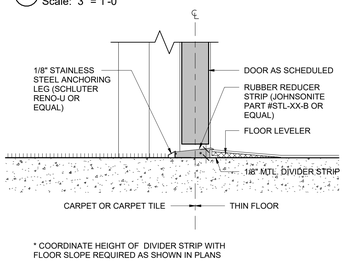
14 SILL TRANS - RUBBER REDUCER TYPE A
Scale: 3" = 1'-0"



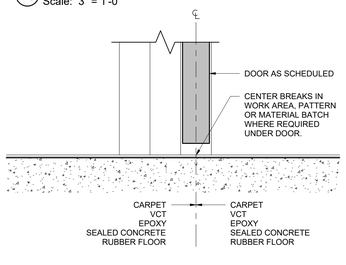
17 METAL THRESHOLD AT CARPET TO THIN FLOOR1
Scale: 3" = 1'-0"



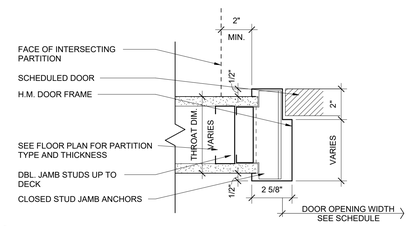
13 SILL TRANS - RUBBER TRANS STRIP
Scale: 3" = 1'-0"



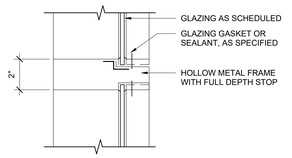
16 THRESHOLD - CARPET TO FLOOR LEVELER
Scale: 3" = 1'-0"



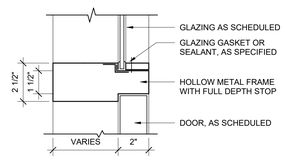
12 SILL TRANSITION - NO THRESHOLD
Scale: 3" = 1'-0"



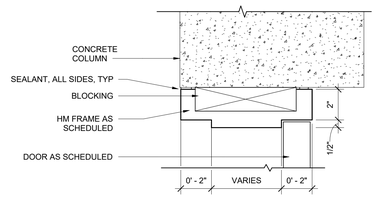
11 TYP. JAMB
Scale: 3" = 1'-0"



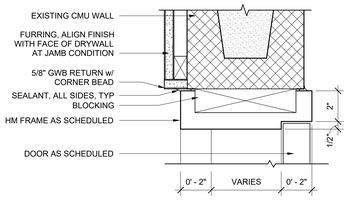
10 HM SIDELITE - INTERIM MULLION
Scale: 3" = 1'-0"



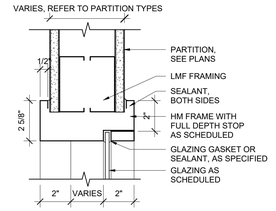
9 HM SIDELITE - MULLION AT DOOR
Scale: 3" = 1'-0"



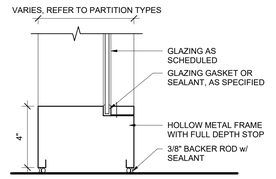
8 HOLLOW METAL JAMB AT CONCR. COLUMN
Scale: 3" = 1'-0"



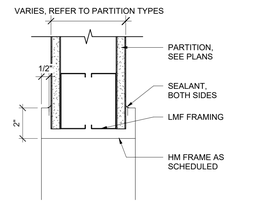
7 HOLLOW METAL HEAD AT CMU
Scale: 3" = 1'-0"



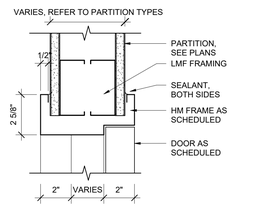
6 HM SIDELITE HEAD (JAMB SIMILAR)
Scale: 3" = 1'-0"



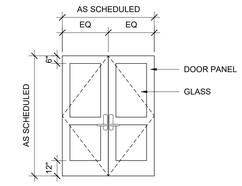
5 HM SIDELITE SILL - WIDE
Scale: 3" = 1'-0"



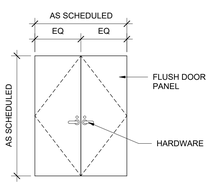
4 HM CASED OPENING HEAD (JAMB SIMILAR)
Scale: 3" = 1'-0"



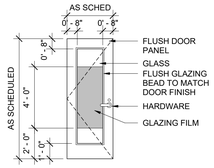
3 HM DOOR HEAD AT LMF WALL (JAMB SIMILAR)
Scale: 3" = 1'-0"



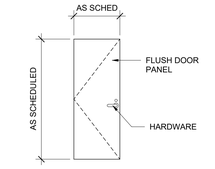
SS FULL GLASS DOUBLE



AA DOUBLE FLUSH

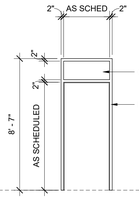


E FULL GLASS

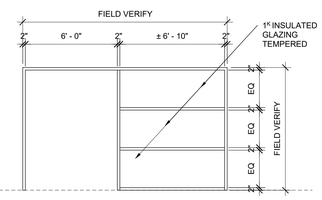


A FLUSH

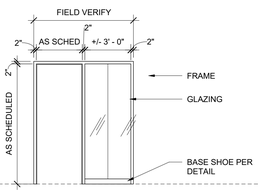
2 DOOR TYPE ELEVATIONS
Scale: 1/4" = 1'-0"



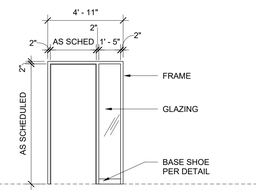
5 FRAME 5



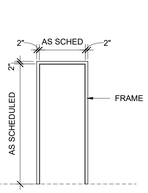
4 FRAME 4



3 FRAME 3



2 FRAME 2



1 FRAME 1

1 DOOR FRAME TYPE ELEVATIONS
Scale: 1/4" = 1'-0"

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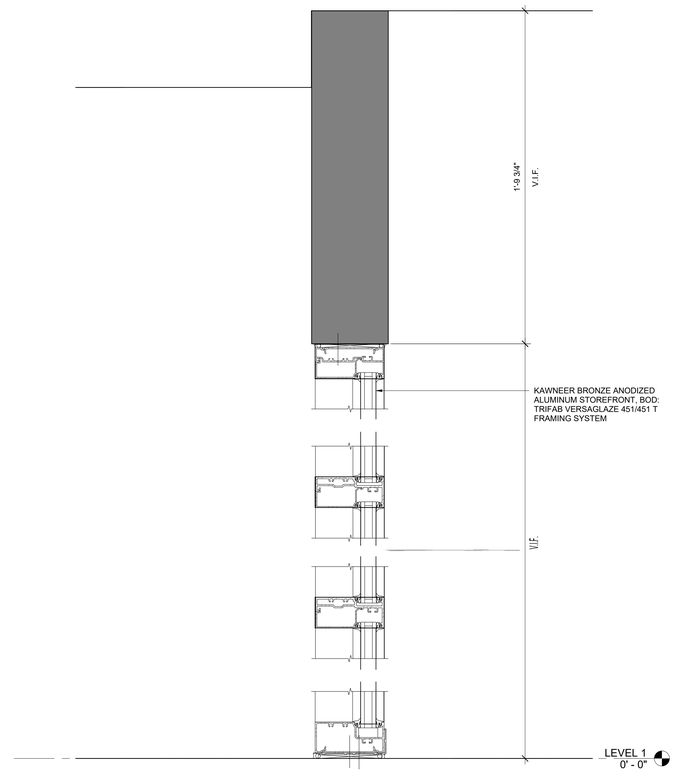
DOOR SCHEDULE, TYPES, FRAME TYPES & DETAILS

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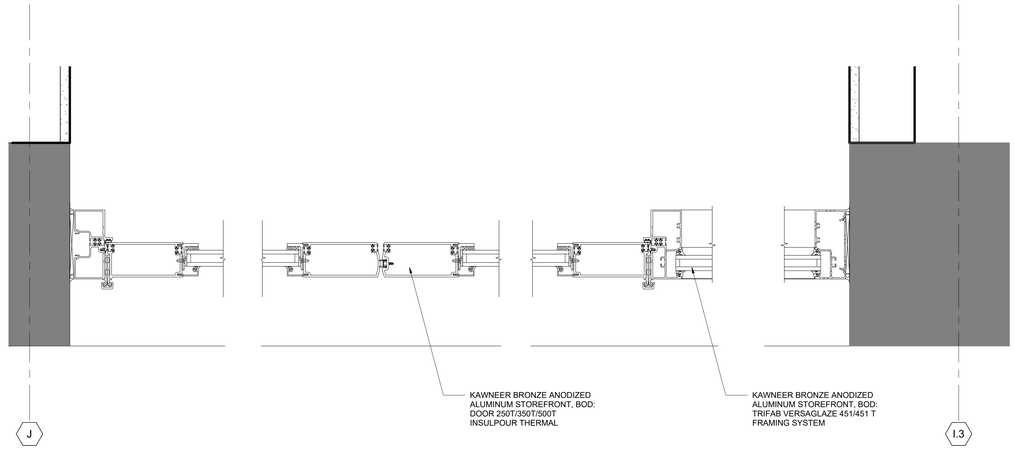
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2 SECTION THROUGH ENTRY STOREFRONT 2
Scale: 3" = 1'-0"



1 SECTION THROUGH ENTRY STOREFRONT
Scale: 3" = 1'-0"

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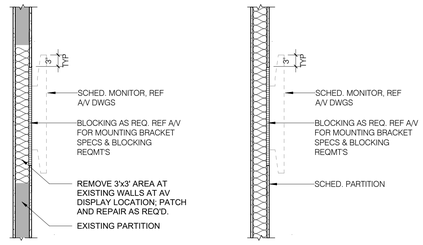
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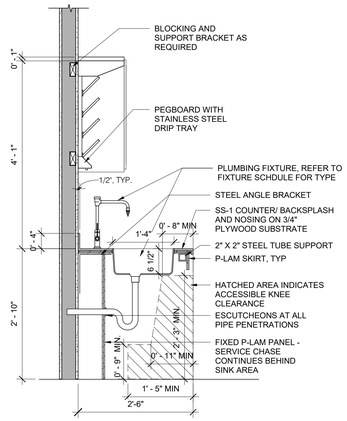
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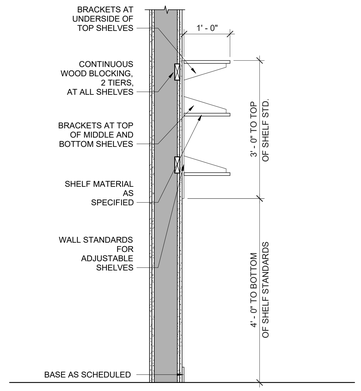
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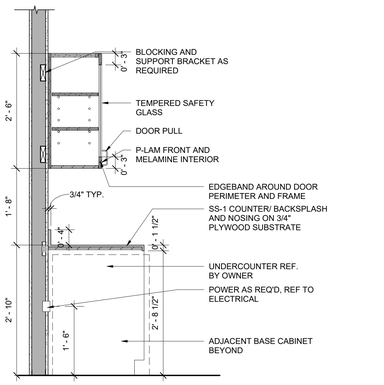
11 SECTION DETAIL - AV DISPLAY
Scale: 3/4" = 1'-0"



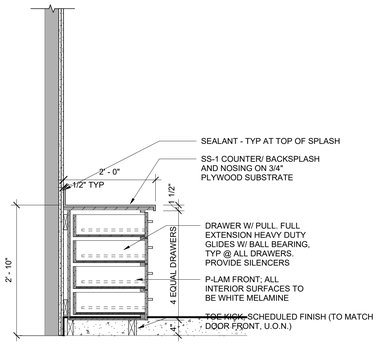
10 SECTION DETAIL - LAB ACCESSIBLE SINK
Scale: 3/4" = 1'-0"



9 SECTION DETAIL - WALL SHELVES
Scale: 3/4" = 1'-0"

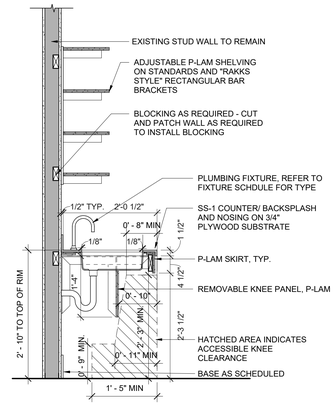


8 SECTION DETAIL - LAB BASE CABINET W/ APPLIANCE AND WALL CABINET
Scale: 3/4" = 1'-0"



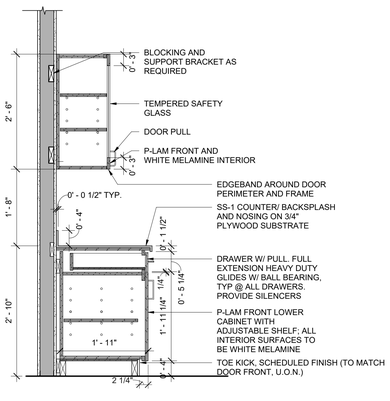
6 SECTION DETAIL - BASE CABINET
Scale: 3/4" = 1'-0"

4 SECTION DETAIL - TESTING ROOM COUNTER
Scale: 3/4" = 1'-0"

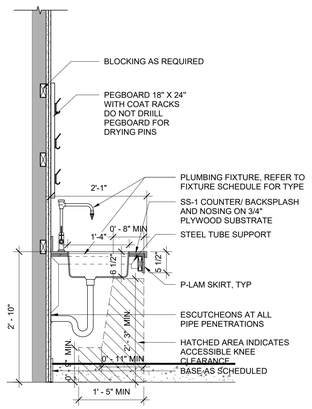


FOR TYPICAL NOTES AND DIMENSION SEE 1/B-A8.21

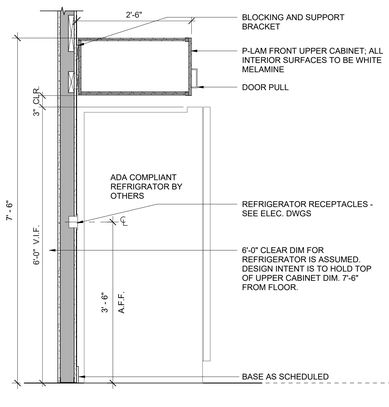
2 SECTION DETAIL - ACCESSIBLE SINK WITH WALL CABINET
Scale: 3/4" = 1'-0"



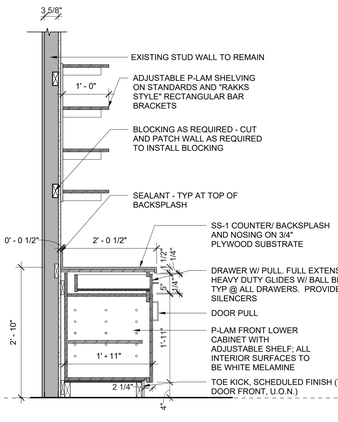
7 SECTION DETAIL - LAB BASE AND WALL CABINET
Scale: 3/4" = 1'-0"



5 SECTION DETAIL - ACCESSIBLE SINK WITH PEGBOARD
Scale: 3/4" = 1'-0"



3 SECTION DETAIL - WOOD SURROUND AT FRIDGE
Scale: 3/4" = 1'-0"



1 SECTION DETAIL - TYPICAL BASE AND ADJUSTABLE SHELVING
Scale: 3/4" = 1'-0"

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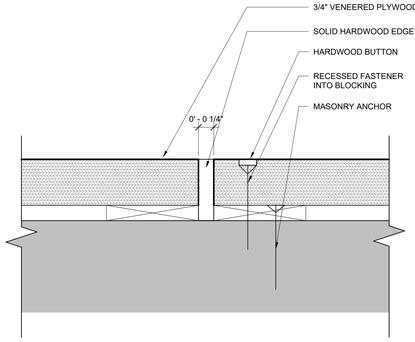
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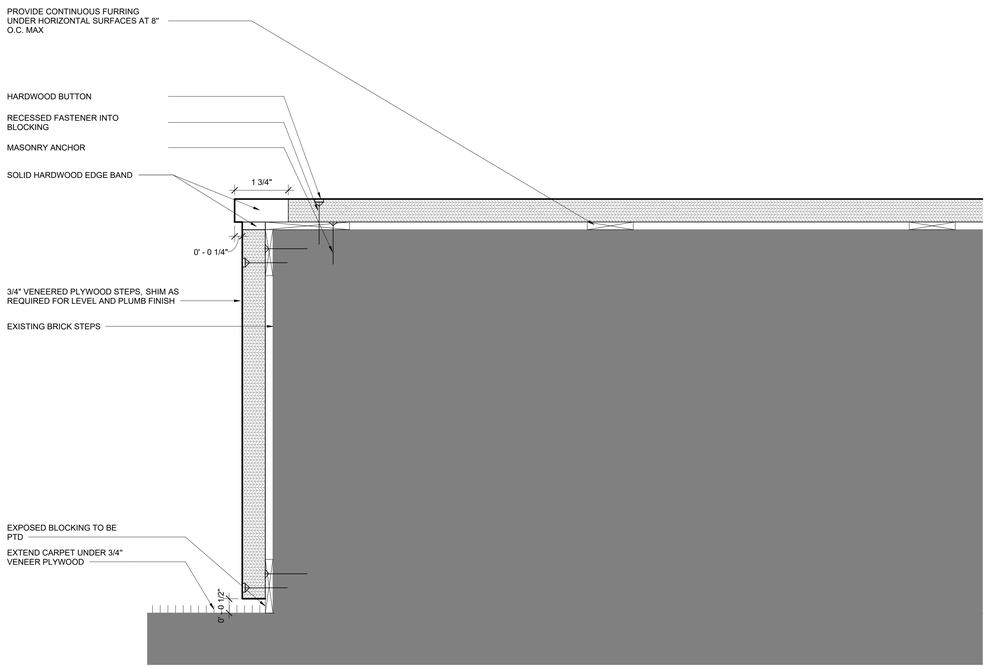
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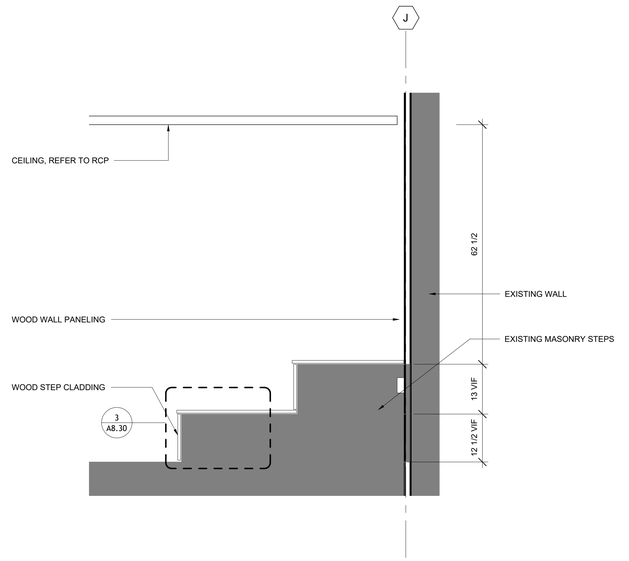
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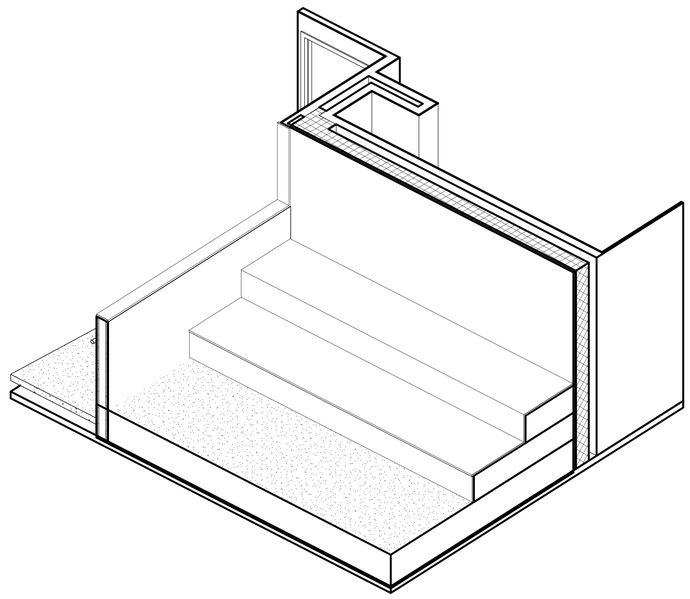
5 MODULAR SEAT SEAM DETAIL
Scale: 12" = 1'-0"



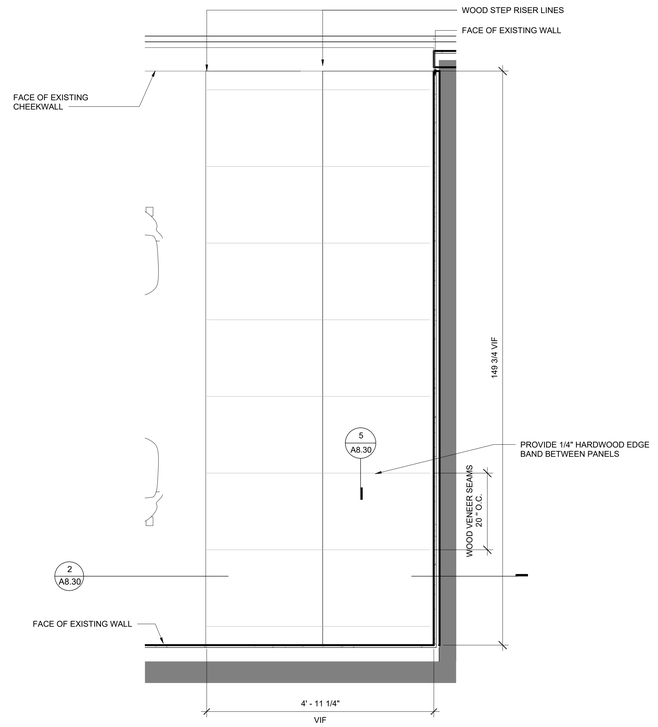
3 MODULAR SEAT TYPICAL DETAIL
Scale: 6" = 1'-0"



2 SOCIAL CULTURAL TESTING ROOM MILLWORK STEP - SECTION
Scale: 3/4" = 1'-0"



4 SOCIAL CULTURAL TESTING ROOM MILLWORK - AXON
Scale:



1 SOCIAL CULTURAL TESTING ROOM MILLWORK STEP - PLAN
Scale: 3/4" = 1'-0"

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LIGHTING FIXTURE LEGEND

LR-1
RECESSED LINEAR

LR-2
RECESSED LINEAR

LS-1
SURFACE
MOUNTED LINEAR

LS-2
SUSPENDED LINEAR

SAL-1
SALVAGED FOR REUSE
RECESSED 2X2 TROFFER

SAL-2
SALVAGED FOR REUSE
SUSPENDED UTILITY FIXTURE

R1
RECESSED 1X4 TROFFER

CEILING LEGEND

EXIT SIGN

SUPPLY DIFFUSER

OCCUPANCY DETECTOR

SMOKE DETECTOR

SPRINKLER HEAD

CEILING FINISH LEGEND

AREA NOT IN SCOPE

ACT-1
ACOUSTIC PANEL CEILING
2X2

CLGB-1
GWB PAINTED

EXISTING TO REMAIN/(NO CEILING)
PAINTED EXISTING METAL DECK/ STEEL STRUCTURE AND FIREPROOFING.
EXISTING CONCRETE STRUCTURE LEFT UNFINISHED. NOTE: NOT ALL BEAMS ARE DEPICTED. SKIMCOAT AND PAINT ALL EXISTING DRYWALL

REFLECTED CEILING PLAN NOTES

1. SUSPENDED CEILING GRID SHALL BE CENTERED IN ROOM UNLESS INDICATED OTHERWISE.
2. ALL DOWN LIGHTS, REGISTERS, EQUIPMENT, DEVICES, EXIT SIGNAGE ETC SHALL BE INSTALLED CENTERED IN EACH CEILING TILE UNLESS INDICATED OTHERWISE. WHERE GRAPHICALLY INDICATED, DEVICES MAY BE CENTERED ON THE HALF- OR THIRD- TILE POINTS.
3. LOCATION AND ORIENTATION OF LIGHT FIXTURES, DIFFUSERS, SPRINKLERS AND OTHER DEVICES SHALL BE AS SHOWN ON ARCHITECTURAL RCPS. WHERE DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OBTAIN CLARIFICATIONS PRIOR TO COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CLEARANCE PROBLEMS W/ LIGHT FIXTURES AND SHALL NOT MOVE, RELOCATE OR ADJUST THE LOCATION OF ANY LIGHT FIXTURE W /OUT THE ARCHITECTS APPROVAL.
5. IN SPACES WITHOUT FINISHED ARCHITECTURAL CEILINGS (MECHANICAL, ELECTRICAL, TEL/DATA, UTILITY, ETC.), REFER TO MEP/FP DRAWINGS FOR ALL LIGHTING, SPRINKLERS, MECHANICAL AND OTHER REQUIRED CEILING DEVICE LOCATIONS.
6. SUPPLY AND RETURN AIR DIFFUSERS ARE DIAGRAMMATIC ON ARCHITECTURAL REFLECTED CEILING PLANS. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER SCHEDULE AND SIZES.
7. SPRINKLER HEADS ARE NOT TYPICALLY SHOWN. REFER TO FIRE PROTECTION DRAWINGS FOR REQUIREMENTS. CENTER HEADS IN TILES.
8. SUPPORT PENDANT LIGHT FIXTURES FROM STRUCTURE ABOVE, AND PROVIDE ALL APPROPRIATE SUPPORTS, STEMS, FASTENERS, ESCUTCHEONS, ETC, FOR SUBSTRATE CONDITIONS.
9. CEILING MOUNTED WORK SHOWN ON MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AUDIOVISUAL, SECURITY, AND TEL/DATA DRAWINGS SHALL BE INCORPORATED INTO THE CEILING WHETHER EXPLICITLY SHOWN ON CEILING PLANS OR NOT.



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LOWER LEVEL REFLECTED CEILING PLAN

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FOR REFLECTED CEILING PLAN GENERAL NOTES AND LEGEND, SEE B-A9.00

GWB CEILING

EXISTING STUCCO SOFFIT TO REMAIN

SHELVES UNDERNEATH

REMOVE AND REINSTALL EXISTING ACOUSTIC CEILING THIS AREA AS REQUIRED TO INSTALL NEW FIRE PROTECTION RISER

PROJECTION SCREEN BY CONTRACTOR

CEILING, DIFFUSERS AND LIGHTING PROVIDED BY ROOM MFR

SPRINKLER HEAD WITH FLEX CONNECTION AND NEOPRENE RUBBER GASKET AT PENETRATION; COORDINATE WITH RF ENCLOSURE MFR

EXISTING CEILINGS AND FIXTURES TO REMAIN IN BATHROOMS; PATCH AND REPAIR CEILING AT LOCATIONS OF NEW SPRINKLERS. REFER TO SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.

PATCH AND MAKE SMOOTH IN PLANE WITH THE EXISTING CEILING AT THE LOCATION OF THE REMOVED RECESSED LIGHT FEATURE

PATCH AND MAKE SMOOTH IN PLANE WITH THE EXISTING CEILING

24 25 26 26.1 26.2 26.3 26.4

H.3 H.4 I I.1 I.2 I.3 J J.1 K L.2 L L.1

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BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

REVISIONS

ISSUE

UPPER LEVEL REFLECTED CEILING PLAN

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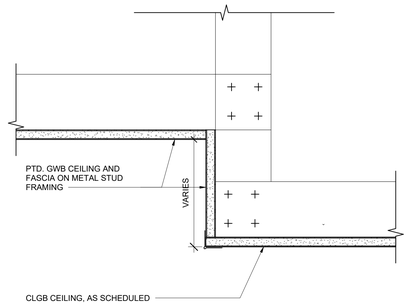
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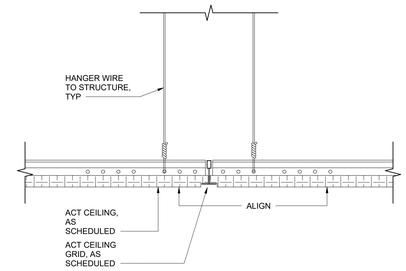
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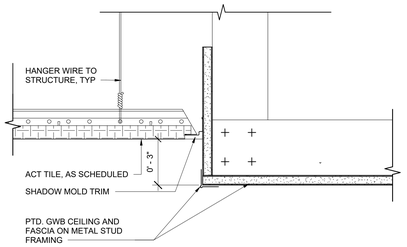
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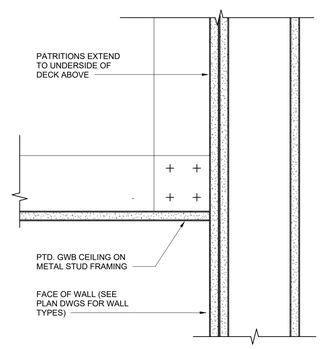
6 CLGB CEILING AT CLGB FASCIA
Scale: 3" = 1'-0"



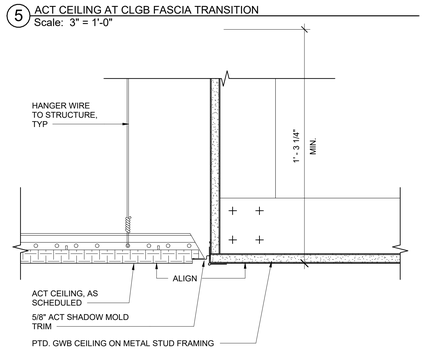
3 ACT CEILING - GRID
Scale: 3" = 1'-0"



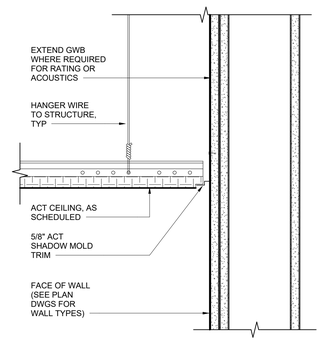
5 ACT CEILING AT CLGB FASCIA TRANSITION
Scale: 3" = 1'-0"



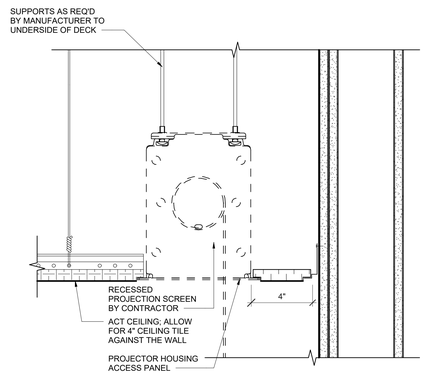
2 CLGB CEILING ASSEMBLY - TYP AT WALL
Scale: 3" = 1'-0"



4 ACT CEILING - FLUSH TRANSITION TO CLGB
Scale: 3" = 1'-0"



1 ACT CEILING ASSEMBLY - TYP AT WALL
Scale: 3" = 1'-0"



7 RECESSED PROJECTION SCREEN - ACT
Scale: 3" = 1'-0"

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TYPICAL CEILING DETAILS

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MATERIAL AND FINISH SELECTIONS

FINISH DESIGNATION	SPEC SECTION	MATERIAL TYPE	MANUFACTURER	PRODUCT	COLOR	TYPICAL LOCATIONS	REMARKS
FLOOR FINISH							
CPT-1	096813	CARPET TILE	TARKETT	ELECTRI EDIT 11611	ARMOR 22402	CIRCULATION	-
CPT-2	096813	CARPET TILE	TARKETT	FLAME EDIT 11612	ARMOR 22402	DRY RESEARCH, OFFICE, SOCIAL CULTURAL TESTING	-
RSF-1	096500	RESILIENT SHEET FLOORING	TARKETT	21020 967 MELODIA	Nimbus	TESTING ROOMS, WET RESEARCH	-
RST-1	096500	RESILIENT STAIR TREADS	TARKETT	JOHNSONITE ANGLE FIT RUBBER STAIR TREAD WITH INTEGRATED RISER	38 Pewter	STAIR	-
BASE FINISH							
RB-1	096500	RUBBER	ROPPE	PINNACLE - TYPE TS	150 DARK GREY	CIRCULATION	-
RB-2	096500	RUBBER	ROPPE	PINNACLE - TYPE TS	-	DRY RESEARCH, OFFICE, TESTING, WET RESEARCH, OBSERVATION	-
RB-3	096500	RUBBER	ROPPE	PINNACLE - TYPE TS	-	STAIR, STORAGE, ELECTRICAL	-
WD-1	064020	HARDWOOD	-	-	-	SOCIAL CULTURAL TESTING	-
WALL FINISH							
PT-1	099100	PAINTING	SHERWIN WILLIAMS	-	-	-	-
PT-2	099100	PAINTING	SHERWIN WILLIAMS	SW 6840	EXUBERANT PINK	-	-
PT-3	099100	PAINTING	SHERWIN WILLIAMS	SW 6825	IZMIR PURPLE	-	-
PT-4	099100	PAINTING	SHERWIN WILLIAMS	SW 7074	SOFTWARE	-	-
PT-5	099100	PAINTING	BENJAMIN MOORE	133	NEW DAWN	-	-
CEILING FINISH							
ACT-1	095113	ACOUSTICAL PANEL CEILINGS	-	-	-	-	-
GWB	092900	GYPSUM WALL BOARD	-	-	-	-	-

WALL FINISHES LEGEND

ACCENT COLORS

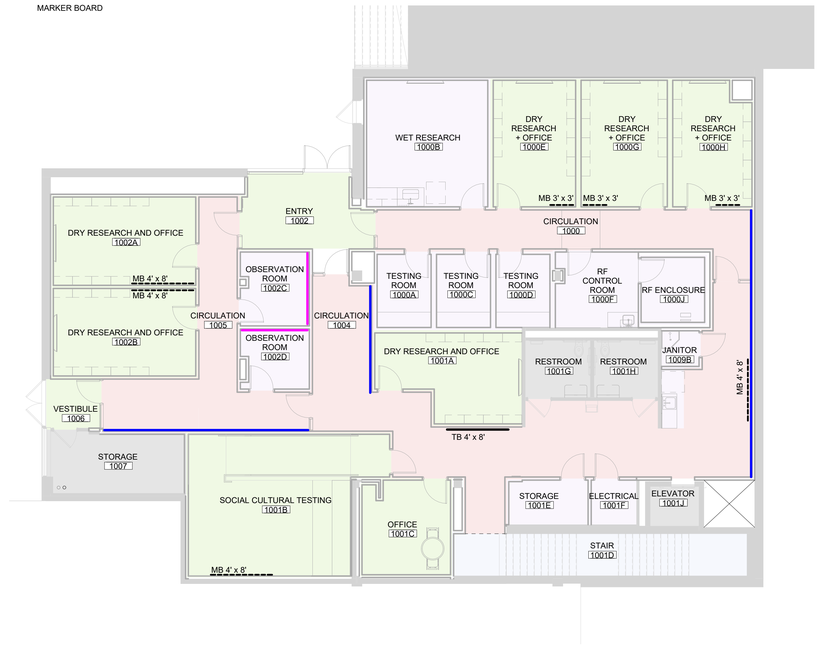
	PT-3	ACCENT PAINT TYPE 3, FULL HEIGHT
	PT-3	ACCENT PAINT TYPE 3, PARTIAL HEIGHT
	PT-4	ACCENT PAINT TYPE 4, FULL HEIGHT
	PT-4	ACCENT PAINT TYPE 4, PARTIAL HEIGHT
	PT-5	ACCENT PAINT TYPE 5, FULL HEIGHT
	PT-5	ACCENT PAINT TYPE 5, PARTIAL HEIGHT

WALL ACCESSORIES

	TB	TACK BOARD
	MB	MARKER BOARD

FLOORING LEGEND

- CPT-1
- CPT-2
- ETR
- RSF-1
- RST-1

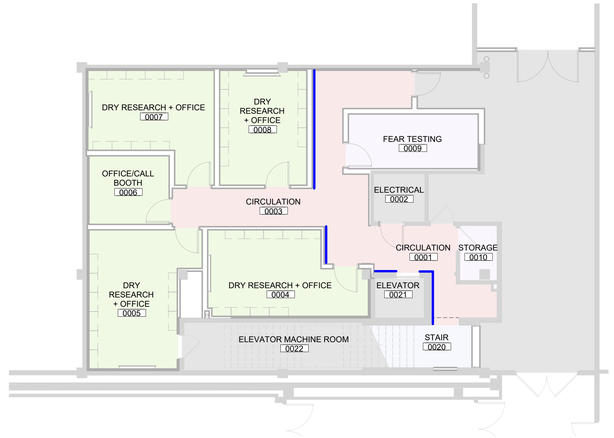


1 LOWER LEVEL FINISH PLAN
Scale: 1/8" = 1'-0"

2 UPPER LEVEL FINISH PLAN
Scale: 1/8" = 1'-0"

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR MATL	BASE MATL	WALL MATL	RFS_CEILING CODE	REMARKS
LOWER LEVEL						
0001	CIRCULATION	CPT-1	RB-1	PT-1/PT-4	ACT-1	
0002	ELECTRICAL	ETR	ETR	ETR	ETR	
0003	CIRCULATION	CPT-1	RB-1	PT-1/PT-4	ACT-1	
0004	DRY RESEARCH + OFFICE	CPT-2	RB-2	PT-1	ACT-1	
0005	DRY RESEARCH + OFFICE	CPT-2	RB-2	PT-1	ACT-1	
0006	OFFICE/CALL BOOTH	CPT-2	RB-2	PT-1	ACT-1	
0007	DRY RESEARCH + OFFICE	CPT-2	RB-2	PT-1	ACT-1	
0008	DRY RESEARCH + OFFICE	CPT-2	RB-2	PT-1	ACT-1	
0009	FEAR TESTING	RSF-1	RB-3	PT-1	NONE	
0010	STORAGE	RSF-1	RB-3	PT-1	NONE	
0011	CIRCULATION	CPT-1	RB-1	PT-1/PT-4	ACT-1	
0020	STAIR	RST-1	RB-3	PT-1	GWB-2	
0021	ELEVATOR	ETR	ETR	ETR	ETR	
0022	ELEVATOR MACHINE ROOM	ETR	ETR	ETR	ETR	
0030	SERVICE TUNNEL	ETR	ETR	ETR	ETR	
LEVEL 1						
1000	CIRCULATION	CPT-1	RB-1	PT-1/PT-4	ACT-1	
1000A	TESTING ROOM	RSF-1	RB-2	PT-1	ACT-1	
1000B	WET RESEARCH	RSF-1	RB-2	PT-1	ACT-2	
1000C	TESTING ROOM	RSF-1	RB-2	PT-1	ACT-1	
1000D	TESTING ROOM	RSF-1	RB-2	PT-1	ACT-1	
1000E	DRY RESEARCH + OFFICE	CPT-2	RB-2	PT-1	ACT-1	
1000F	RF CONTROL ROOM	RSF-1	RB-2	PT-1	ACT-1	
1000G	DRY RESEARCH + OFFICE	CPT-2	RB-2	PT-1	ACT-1	
1000H	DRY RESEARCH + OFFICE	CPT-2	RB-2	PT-1	ACT-1	
1000J	RF ENCLOSURE	RSF-1	RB-2	BY MFR.	BY MFR.	
1001A	DRY RESEARCH AND OFFICE	CPT-2	RB-2	PT-1	ACT-1	
1001B	SOCIAL CULTURAL TESTING	CPT-2	WD-1	PT-1	ACT-1	
1001C	OFFICE	CPT-2	RB-2	PT-1	ACT-1	
1001D	STAIR	RST-1	RB-3	PT-1	GWB-2	
1001E	STORAGE	RSF-1	RB-3	PT-1	NONE	
1001F	ELECTRICAL	RSF-1	RB-3	PT-1	NONE	
1001G	RESTROOM	ETR	ETR	ETR	ETR	
1001H	RESTROOM	ETR	ETR	ETR	ETR	
1001J	ELEVATOR	ETR	ETR	ETR	ETR	
1002	ENTRY	CPT-2	RB-2	PT-1	ACT-1	
1002A	DRY RESEARCH AND OFFICE	CPT-2	RB-2	PT-1	ACT-1	
1002B	DRY RESEARCH AND OFFICE	CPT-2	RB-2	PT-1	ACT-1	
1002C	OBSERVATION ROOM	RSF-1	RB-2	PT-1/PT-5	ACT-1	
1002D	OBSERVATION ROOM	RSF-1	RB-2	PT-1/PT-5	ACT-1	
1004	CIRCULATION	CPT-1	RB-1	PT-1/PT-4	ACT-1	
1005	CIRCULATION	CPT-1	RB-1	PT-1/PT-4	ACT-1	
1006	VESTIBULE	CPT-2	RB-2	PT-1	ACT-1	
1007	STORAGE	ETR	ETR	ETR	ETR	
1008	CIRCULATION	CPT-1	RB-1	PT-1/PT-4	ACT-1	PROVIDE PT-2 AT SOUTH WALL
1009A	KITCHENETTE	RSF-1		PT-1	ACT-1	PROVIDE PT-2 AT SOUTH WALL
1009B	JANITOR	RSF-1	RB-2	PT-1	ACT-1	



1 LOWER LEVEL FINISH PLAN
Scale: 1/8" = 1'-0"

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FINISH PLANS AND SCHEDULE

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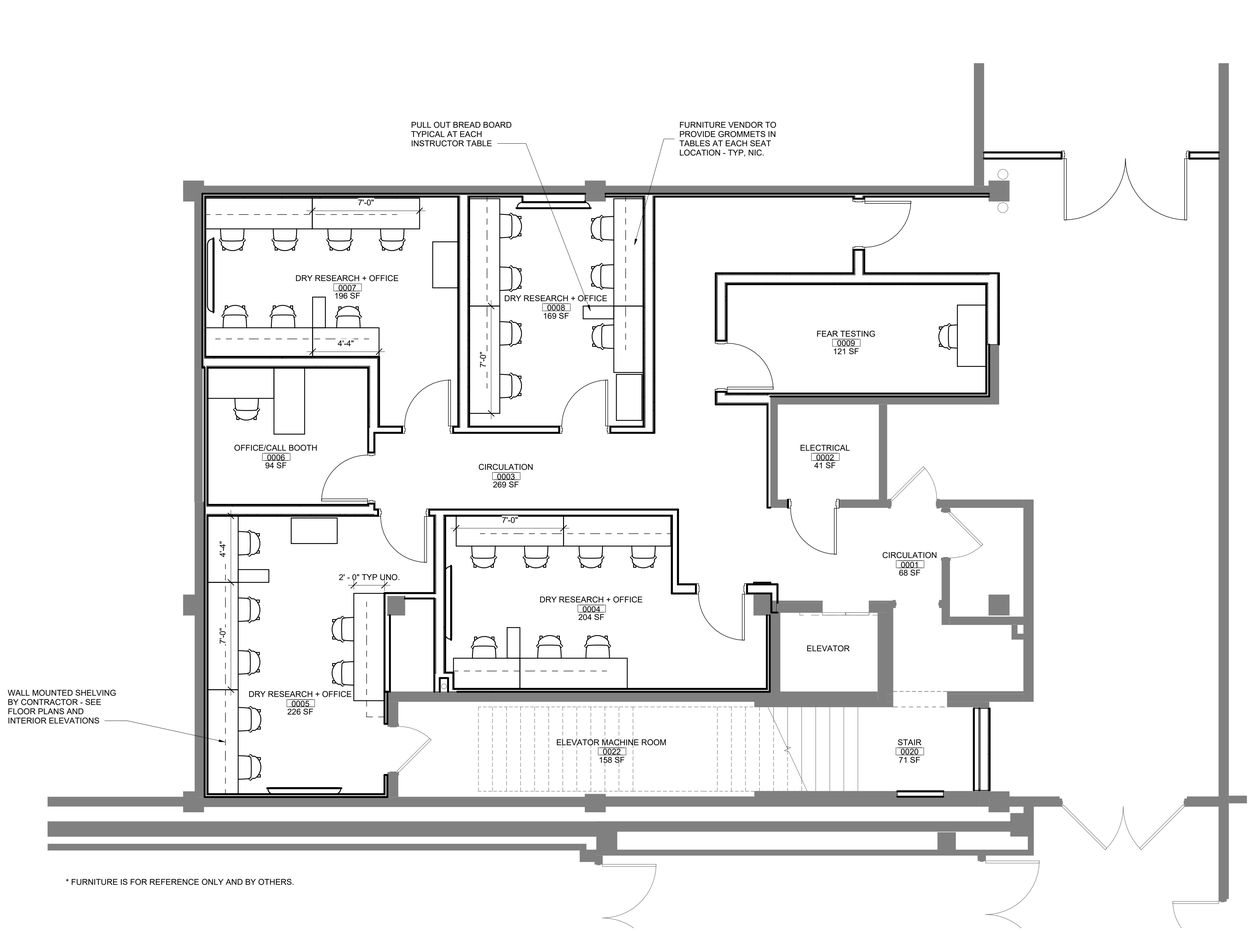
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LOWER LEVEL FURNITURE PLAN

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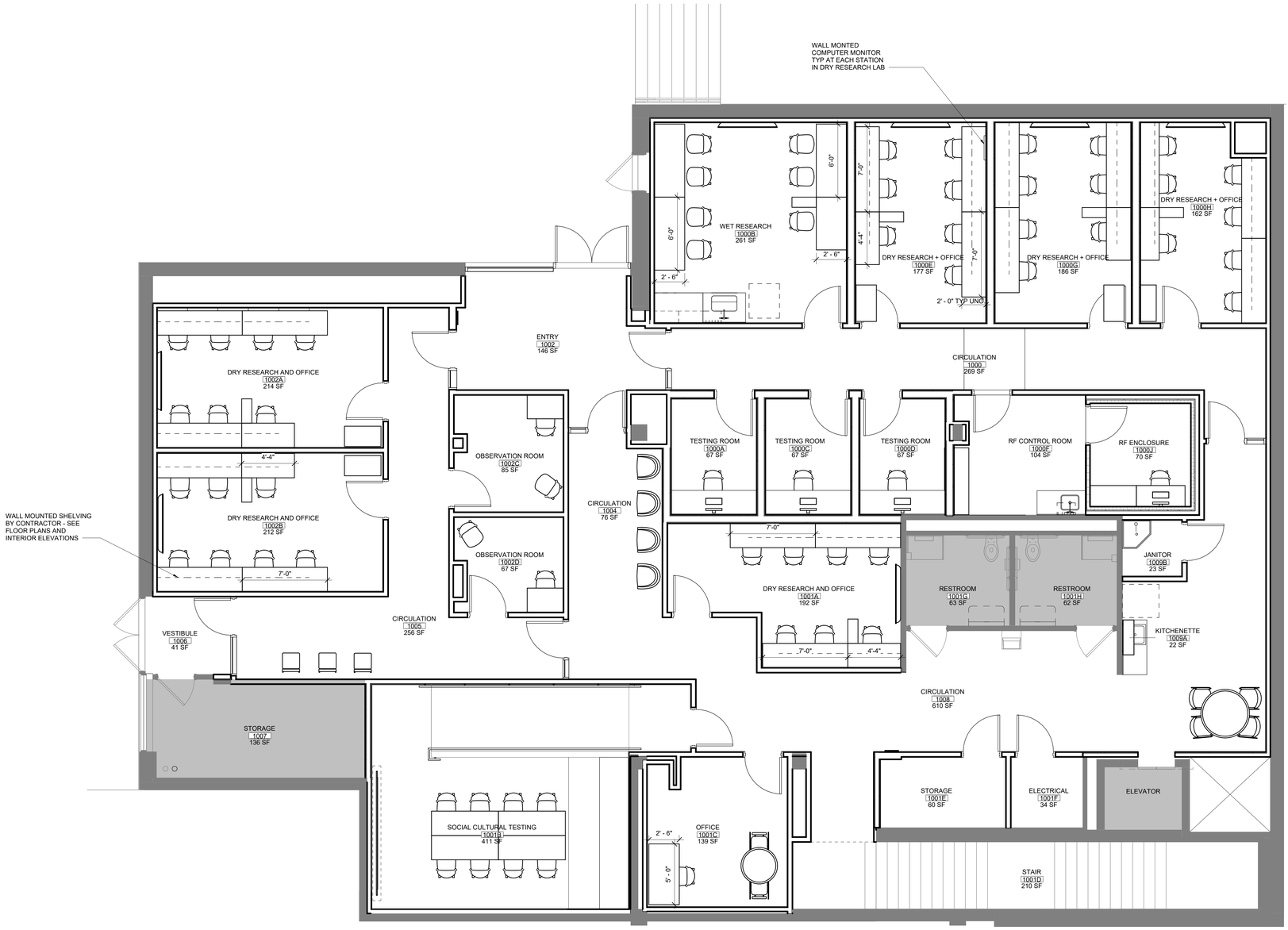
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GENERAL FIRE PROTECTION NOTES

GENERAL

FIRE PROTECTION PLANS ARE INTENDED TO INDICATE TOTAL COVERAGE AND MAY OR MAY NOT INDICATE ALL SPRINKLER HEADS. SPRINKLER HEADS INDICATED ON DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE NOT BE COUNTED FOR BID. THE CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEM WITH COMPLETE SPRINKLER COVERAGE, INDICATED OR NOT. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE, IN ACCORDANCE WITH NFPA, INSURANCE COMPANY REQUIREMENTS AND OWNERS, READY FOR OPERATION, SHALL BE PROVIDED AND INSTALLED.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUBCONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

THE DESIGN OF ALL FIRE SUPPRESSION SYSTEMS WILL BE IN ACCORDANCE WITH NFPA 13, LOCAL, STATE AND THE OWNER'S INSURANCE COMPANY REQUIREMENTS. USE ONLY UL/FM APPROVED SPRINKLERS, MATERIALS AND DEVICES, UNLESS NOTED OTHERWISE.

CONTRACTORS ARE WELCOMED TO VISIT THE SITE AT THE TIME OF BID, TO EXAMINE CONDITIONS AND BECOME FAMILIAR WITH THE JOB, NOTING DEGREE OF DIFFICULTY IN GETTING EQUIPMENT (INCLUDING LIFTS AND SCAFFOLDS) IN AND OUT OF THE BUILDING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING PRIOR TO SUBMITTING A BID.

NOTIFY PROPER AUTHORITIES (INCLUDING BUT NOT LIMITED TO: THE LOCAL A.H.J., INSURANCE COMPANY, ETC.) OF ANY FIRE PROTECTION "SHUT DOWNS". SCHEDULE ALL WORK TO MINIMIZE THE LENGTH OF TIME THAT THE FIRE PROTECTION SYSTEM(S) WILL BE OUT OF SERVICE. RETURN THE SPRINKLER SYSTEM BACK IN SERVICE AT THE END OF EACH WORKING DAY. IF A FIRE WATCH IS REQUIRED BY THE LOCAL A.H.J. BUILDING MANAGER, ETC. IT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. FIRE WATCH SCHEDULING AND PERSONNEL SHALL BE COORDINATED WITH THE LOCAL A.H.J., BUILDING MANAGER AND INSURANCE COMPANY.

ARRANGE PIPING TO FACILITATE FLUSHING. PROVIDE READILY ACCESSIBLE DRAIN AND FLUSHING CONNECTIONS AS REQUIRED BY NFPA 13. PROVIDE AND INSTALL AUXILIARY DRAINS WITH PROVISIONS FOR COMPLETE DRAINAGE. PIPE ALL DRAINS AS SHOWN IN BID DRAWINGS.

INSPECTOR'S TEST CONNECTIONS, DRAIN VALVES AND CONTROL VALVES SHALL BE READILY ACCESSIBLE AND INSTALLED NOT OVER +/-7'-0" ABOVE THE FINISHED FLOOR. PROVIDE ALL VALVES WITH IDENTIFICATION SIGNS. SUPERVISORY SWITCHES SHALL BE ON ALL CONTROL VALVES.

INSTALL A PRESSURE GAUGE WITH A BLEEDER MAINTENANCE VALVE AT THE TOP OF ALL RISERS.

DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT INDICATED. REFER TO ARCHITECT FOR RESOLUTION FOR ANY DIMENSIONS NOT INDICATED.

PROVIDE A HEAD GUARD ON SPRINKLERS IN AREAS SUBJECT TO MECHANICAL DAMAGE (I.E. SPRINKLERS IN: MECHANICAL ROOMS, ETC.)

THE CONTRACTOR SHALL COORDINATE SPRINKLER WORK WITH THE OWNER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF ANY WORK. ALL PHASED SECTIONS OF WORK SHALL COMPLY WITH THE OWNERS SCHEDULE AND BE TESTED, INSPECTED, READY FOR OPERATION IN ACCORDANCE WITH NFPA, OWNERS INSURANCE COMPANY AND A.H.J. REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE COMPLETE SIGNED AND SEALED DRAWINGS INDICATING ALL PIPING AND SPRINKLER HEADS.

INSTALL SPRINKLERS BELOW DUCTS, AND/OR COMBINATIONS OF DUCTS/EQUIPMENT IN ACCORDANCE WITH THE OBSTRUCTION REQUIREMENTS OF NFPA 13.

PROVIDE SPRINKLER PROTECTION IN ORDER TO AVOID ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13, INCLUDING: LIGHTING, CEILING FIXTURES, STRUCTURAL MEMBERS, ETC. WITHIN ALL HAZARD OCCUPANCIES.

ALL DRAIN PIPING AND ANY PIPING SUBJECT TO ALTERNATE WETTING AND DRYING SHALL BE GALVANIZED.

THE CONTRACTOR SHALL SEAL AROUND ALL NEW PENETRATIONS THROUGHOUT THE BUILDING WITH SEALANT OF FIRE AND/OR SMOKE RETARDANT TYPE EQUAL IN FIRE RATING TO THE STRUCTURE BEING PENETRATED. SEALANT SHALL BE A UL LISTED ASSEMBLY.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.

WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM..

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

ALTERATION WORK AND DEMOLITION

EXISTING PIPING AND SPRINKLERS SHOWN DO NOT NECESSARILY REFLECT EXACT FIELD CONDITIONS. FIELD VERIFY EXTENT AND LOCATION OF WORK TO BE REMOVED.

ALL EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, PIPING, DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.

NO EXISTING PIPE MAY BE CUT OR DAMAGED WHEN ENCOUNTERED ALONG THE ROUTE DESIGNED FOR NEW SERVICE. ANY EXISTING PIPING SEVERED OR DAMAGED SHALL BE REPLACED INCLUDING DAMAGED AREAS.

UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.

REMOVE & REPLACE ANY EXISTING SPRINKLER PIPING WHICH DOES NOT PASS THE REQUIRED HYDROSTATIC PRESSURE TESTS CONDUCT VISUAL INTERNAL INSPECTIONS ON AT LEAST 5% OF ANY EXISTING PIPING TO REMAIN.

NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.

EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.

ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.

ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.

RE-ROUTE OR REMOVE ALL EXISTING PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.

COORDINATION DRAWINGS

DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHERS TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:

PLUMBING CONTRACTOR
ELECTRICAL WORK
MECHANICAL PIPING
SPRINKLER PIPING

PRIOR TO INCLUSION OF SPRINKLER PIPING AND EQUIPMENT, CONTRACTOR SHALL HAVE SUBMITTED SPRINKLER PLANS AND CALCULATIONS TO ENGINEER FOR REVIEW AND TO OWNERS INSURANCE COMPANY AND RATING BUREAU FOR REVIEW, AND HAVE ADDRESSES ALL COMMENTS.

AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.

THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW FOR ACCEPTABILITY OF INSTALLATIONS.

ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.

THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

AS BUILT DRAWINGS

PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED AND TURNED OVER IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION) VERSION TO THE MMA. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.

PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:

INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.

MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.

EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.

SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

HOUSEKEEPING PADS

PROVIDE CONCRETE HOUSEKEEPING PADS FOR FLOOR-MOUNTED EQUIPMENT. COORDINATE EXACT LOCATIONS, DIMENSIONS, PIPING LOCATIONS, AND ANCHOR BOLT REQUIREMENTS. PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT. PADS SHALL BE CONSTRUCTED OF 3,000 PSI CONCRETE. PADS SHALL BE 4 INCHES HIGH, AND 4 INCHES WIDER THAN THE EQUIPMENT IN BOTH DIRECTIONS.

HANGERS AND SUPPORT

PROVIDE RESTRAINT AND EXPANSION OF ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS, OWNERS INSURANCE COMPANY, STATE, FEDERAL AND LOCAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.

PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT PIPING, EQUIPMENT AND TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED.

PROVIDE ADDITIONAL SUPPORT FOR PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.

BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE PERMITTED ONLY WHEN PROVIDED WITH RESTRAINING STRAP. BAR JOIST HANGERS SHOULD BE UTILIZED WHEN HANGING FROM BAR JOIST CONSTRUCTION.

PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

CODES AND STANDARDS

2020	NEW YORK STATE BUILDING CODE
2020	NEW YORK STATE FIRE CODE
2016	NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

DESIGN CRITERIA

1. ORDINARY 1 HAZARD OCCUPANCY - STORAGES, MECHANICAL ROOMS, PANTRY, COPY ROOMS, CONFERENCE ROOMS, DENSITY 0.15 GPM PER SQ. FT OVER MOST HYDRAULICALLY REMOTE 1500 SQ. FT., MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQ. FT.
2. LIGHT HAZARD OCCUPANCY - OFFICE SPACE AND ALL OTHER AREAS: DENSITY 0.10 GPM PER SQ. FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ. FT., MAXIMUM COVERAGE PER SPRINKLER HEAD 225 SQ. FT.
3. CLOSELY SPACED SPRINKLER HEADS LOCATED 6'-0" O.C. AND LOT LINE SPRINKLERS SHALL DISCHARGE MINIMUM 3 GPM PER LINEAR FOOT OF PROTECTED LINE. NUMBER OF CLOSELY SPACED SPRINKLERS INCLUDED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 PARAGRAPH 11.3.3.
4. MINIMUM PRESSURE AT SPRINKLER HEAD - 7 PSI.
5. WHENEVER ROLL GROOVED CONNECTIONS ARE USED, ALLOWANCE FOR ADDITIONAL PRESSURE LOSS AT GROOVES SHALL BE MADE AS FOLLOWS:
   5.1. FOR EACH COUPLING ON STRAIGHT RUN INCLUDING STRAIGHT FLOW THROUGH TEE OR CROSS: ADD 1 EQUIVALENT FOOT OF PIPE.
   5.2. FOR EACH COUPLING AT ELBOW, TEE OR CROSS WHERE DIRECTION OF FLOW CHANGES: ADD 2 EQUIVALENT FEET OF PIPE.
6. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13
   6.1. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH LIGHTWALL PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA-13, SHALL BE INCREASED BY 30%
7. DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA NO. 13.
8. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY FIRE STANDPIPE RISER.
9. PRELIMINARY WATER SUPPLY INFORMATION: AT EXISTING FLOOR CONTROL ASSEMBLY INDICATED ON THE RISER DIAGRAM.
10. SYSTEMS SHALL BE BALANCED TO MAINTAIN MINIMUM 30 MINUTES FIRE RESERVE FOR LIGHT HAZARD AND 60 MIN FOR ORDINARY.
11. EXPOSED UPRIGHT SPRINKLERS IN OCCUPIED AREAS TO BE CHROME FINISH
12. CONCEALED SPRINKLER PLATE COLOR BY OWNER/ARCHITECT OR TO MATCH EXISTING CONDITION.
13. CONTRACTOR SHALL INCLUDE REQUIRED ADDITIONAL SPRINKLERS AND ADDITIONAL BRANCH PIPING/FITTINGS TO COVER FURTHER COORDINATION.
14. CONTRACTOR TO PROVIDE ANY REQUIRED ACCESS DOOR REQUIRED FOR INSPECTION AND MAINTENANCE.
15. MAXIMUM WATER VELOCITY MUST NOT EXCEED 30 FT/SEC
16. PROVIDE REQUIRED SPRINKLER UNDER DUCTWORK OR OBSTRUCTIONS 48 INCH OR WIDER.
17. PROVIDE SPRINKLERS GUARDS IN ALL SPRINKLER INSTALLED AT 7 FT AFF OR LOWER.
18. ALL SPRINKLERS IN SPACES WITH FINISHED CEILINGS SHALL BE INSTALLED CENTER OF TILE OR ALIGNED WITH CEILING COMPONENTS WITH NO VISIBLE DEVIATION IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
19. ALL PIPING SHALL BE ARRANGED TO DRAIN BACK TO CONTROL VALVE ASSEMBLY. WHERE PIPING CANNOT DRAIN BACK TO CONTROL VALVE ASSEMBLY PROVIDE ADDITIONAL DRAIN CONNECTIONS IN ACCORDANCE WITH NYC CODE AND NFPA 13 REQUIREMENTS.
20. MAINTAIN REQUIRED CLEARANCES FROM INCLUDING BUT NOT LIMITED TO STRUCTURAL MEMBERS AND CEILING MOUNTED EQUIPMENT IN ACCORDANCE WITH NYC CODE AND NFPA 13 REQUIREMENTS.
21. MINIMUM 18" CLEARANCE SHALL BE MAINTAINED BETWEEN SPRINKLER DEFLECTOR AND TOP OF STORAGE AND SHELVING.
22. PROVIDED ELEVATED TEMPERATURE RATED SPRINKLERS WHERE REQUIRED BY NYC CODE AND NFPA 13 OR WHERE AMBIENT TEMPERATURE MAY EXCEED SPRINKLER MAXIMUM AMBIENT TEMPERATURE RATING.
23. ALL PAINTED OR OTHERWISE DAMAGED SPRINKLERS OR COVER PLATES SHALL BE REPLACED WITH NEW.
24. FLOOR CONTROL VALVE ASSEMBLY SHALL BE INSTALLED AT NO MORE THAN 7 FT FROM FLOOR OR ACCESIBLE PER CODE.

FIRE SPRINKLER DRAWING LIST

DRAWING NUMBER	DRAWING DESCRIPTION
SP-001	SPRINKLER - GENERAL NOTES, SYMBOL LIST & DRAWING LIST
SP-200	SPRINKLER - LOWER LEVEL PLAN NEW WORK
SP-201	SPRINKLER - UPPER & LOWER LEVEL PART PLANS NEW WORK
SP-300	SPRINKLER - RISER DIAGRAM
SP-400	SPRINKLER - DETAILS & SCHEDULES

2020 NEW YORK STATE SPRINKLER NOTES

REFERENCES:
- LATEST BUILDING CODE OF NEW YORK STATE (BC-NYS 2020), CHAPTER 9.
- LATEST UNIFORM FIRE PREVENTION CODE OF NEW YORK STATE.
- NFPA-13 "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION.

1. AUTOMATIC SPRINKLER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH BC-NYS 903.3 AND NFPA 13.
2. EXEMPT LOCATIONS IN ACCORDANCE WITH BC-NYS 903.2 (EXCEPTIONS) AND 903.3.1.1.1.
3. SPRINKLER SYSTEM MONITORING AND ALARMS SHALL COMPLY WITH BC-NYS 903.4.
4. ALARM, SUPERVISORY AND TROUBLE SIGNALS IN ACCORDANCE WITH BC-NYS 903.4.1.
5. ALARMS SHALL CONFORM WITH BC-NYS 903.4.2.
6. SPRINKLER SYSTEMS SHALL BE TESTED AND MAINTAINED IN ACCORDANCE WITH THE FIRE CODE OF NEW YORK STATE.
7. CLASSIFICATION OF OCCUPANCIES IN ACCORDANCE WITH NFPA 13 CHAPTER 5.
8. SPRINKLER TEMPERATURE RATINGS SHALL COMPLY WITH NFPA 13 SECTION 8.3.2.
9. POSITION, LOCATION, SPACING, AND USE OF SPRINKLERS SHALL COMPLY WITH NFPA 13 SECTIONS 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.11, 8.12, AND 8.13.
10. HANGER AND SUPPORTS SHALL BE IN ACCORDANCE WITH NFPA 13 CHAPTER 9.

SPRINKLER SHOP DRAWING NOTE:

THE CONTRACTOR SHALL SUBMIT COORDINATED SHOP DRAWINGS OF THE SPRINKLER SYSTEM FOR REVIEW. THIS SHALL BE DONE BEFORE THE INSTALLATION OF ANY PIPING OR EQUIPMENT. THE SHOP DRAWING SHALL INCLUDE PIPE ROUTING, SIZES, ELEVATIONS, SLEEVES LOCATIONS AND SIZES. THE DRAWINGS SHALL CONTAIN ALL THE INFORMATION NECESSARY FOR THE PROPER INSTALLATION OF THE JOB. THE SHOP DRAWINGS SHALL BE COORDINATED WITH OTHER TRADES AND OR EXISTING PIPING OR EQUIPMENT THAT MIGHT AFFECT THE INSTALLATION. THE DRAWING SHALL BE SUBMITTED AT A MINIMUM 3/8" SCALE OR AT SCALE THAT IS EASILY LEGIBLE. THE DESIGN DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO BE USED AS A SHOP DRAWING THEREFORE A COPY OF THE DESIGN DRAWING IS NOT ACCEPTABLE AS A SHOP DRAWING.

OCCUPANT SAFETY NOTES:

1. CONSTRUCTION WORK WILL BE CONFINED TO THE ITEMS AS INDICATED IN THE DRAWING, AND WILL NOT CREATE DUST, DIRT OR OTHER SUCH INCONVENIENCE TO THE OTHER TENANTS WITHIN THE BUILDING.
2. CONSTRUCTION OPERATION WILL NOT BLOCK HALLWAYS OR MEANS OF EGRESS FOR THE TENANTS OF THE BUILDING.
3. CONSTRUCTION OPERATION WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER, OR OTHER ELECTRICAL SERVICES TO OTHER TENANTS OF THE BUILDING.
4. THERE WILL BE NO ONE OCCUPYING THE WORK AREA DURING THE CONSTRUCTION WORK THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATIONS SHEET, ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED. AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICATION CODES.
5. NO STRUCTURAL WORK SHALL BE DONE THAT MAY ENDANGER THE OCCUPANTS.
6. CONSTRUCTION OPERATION SHALL COMPLY WITH APPLICABLE PROVISIONS OF LAW RELATING TO LEAD AND ASBESTOS.

FIRE SPRINKLER LEGEND

SYMBOL	DESCRIPTION
	NEW CONCEALED PENDENT SPRINKLER HEAD
	NEW EXPOSED PENDENT SPRINKLER HEAD
	NEW EXPOSED UPRIGHT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	NEW SPRINKLER PIPING
	NEW GALVANIZED DRAIN PIPING
	NEW UNDERGROUND SUPPLY PIPING
	ELBOW UP OR DOWN
	PIPING / RISER UP
	BOTTOM TAP
	TOP TAP
	CONTROL VALVE WITH TAMPER SWITCH
	CHECK VALVE
	DIRECTIONAL WATERFLOW INDICATOR
	WATER FLOW SWITCH
SPK	SPRINKLER PIPING
DR	GALVANIZED DRAIN PIPING
VIF	VERIFY IN FIELD
TS	TAMPER SWITCH
FS	FLOW SWITCH
	CONNECT TO EXISTING
	BACKFLOW PREVENTOR
	EXPOSED SPRINKLER CONTROL ASSEMBLY
	3" x 3" x 4" FLUSH FIRE DEPARTMENT CONNECTION
NUMBER / SHEET	DETAIL DESIGNATION SYMBOL

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STATE UNIVERSITY OF NEW YORK

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SPRINKLER - GENERAL NOTES, SYMBOL LIST & DRAWING LIST

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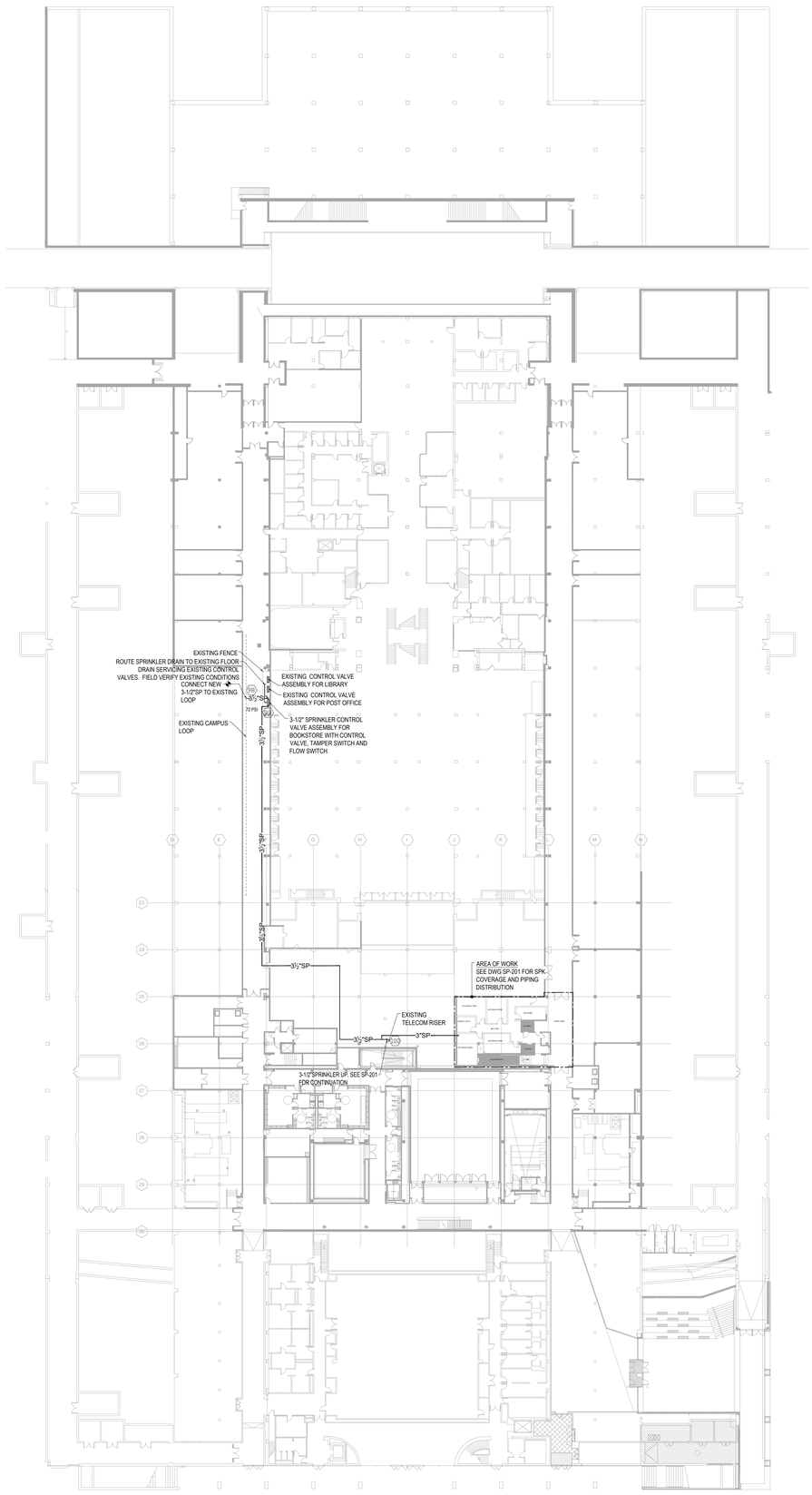
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DRAWING NO.:

SP-001



1 PLUMBING - LOWER LEVEL PLAN NEW WORK
Scale: 1/32" = 1'-0"

1 CONSTRUCTION PLAN - PLUMBING

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SPRINKLER - LOWER LEVEL PLAN NEW WORK

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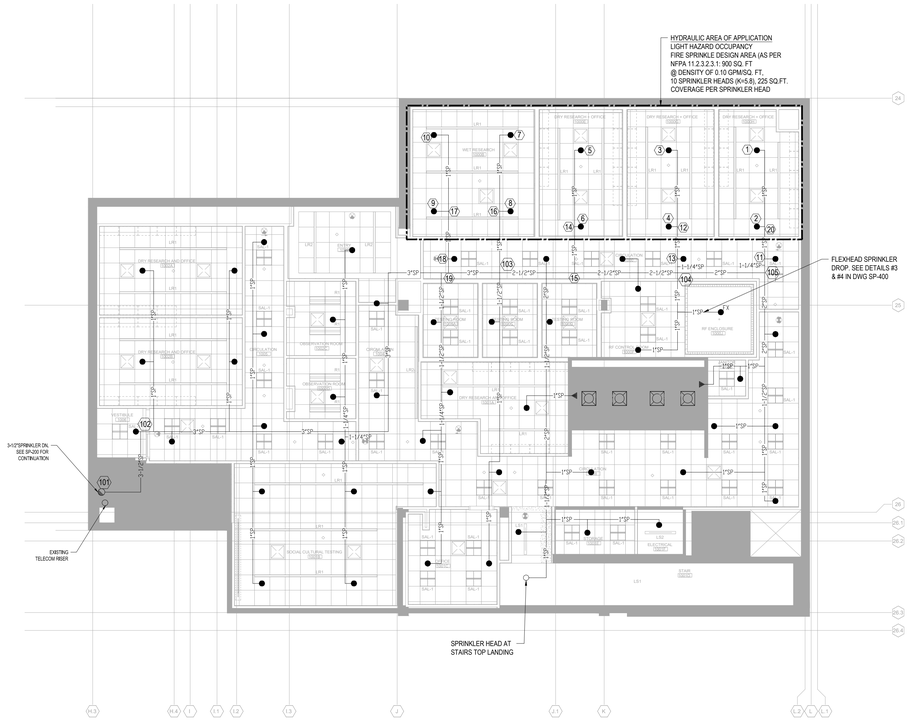
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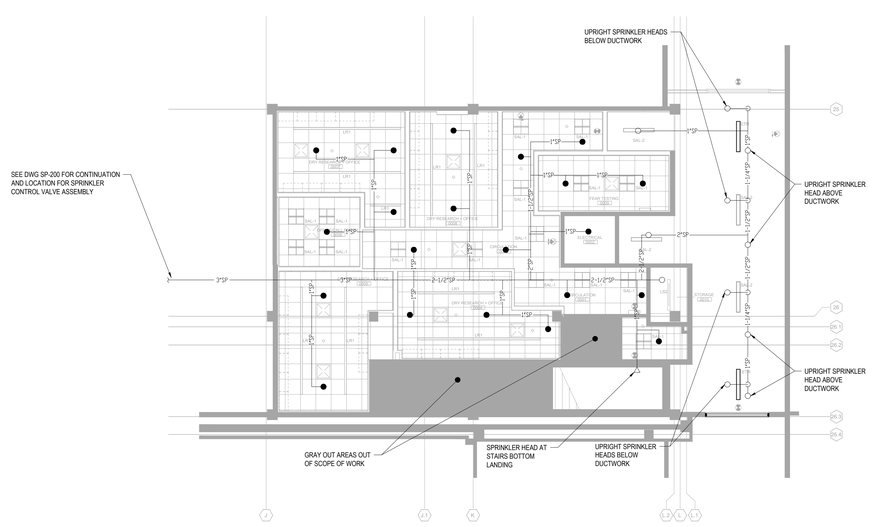
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DRAWING NO.:

SP-200



1 SPRINKLER - UPPER LEVEL PART PLAN NEW WORK
Scale: 1/8" = 1'-0"



2 SPRINKLER - LOWER LEVEL PART PLAN NEW WORK
Scale: 1/8" = 1'-0"

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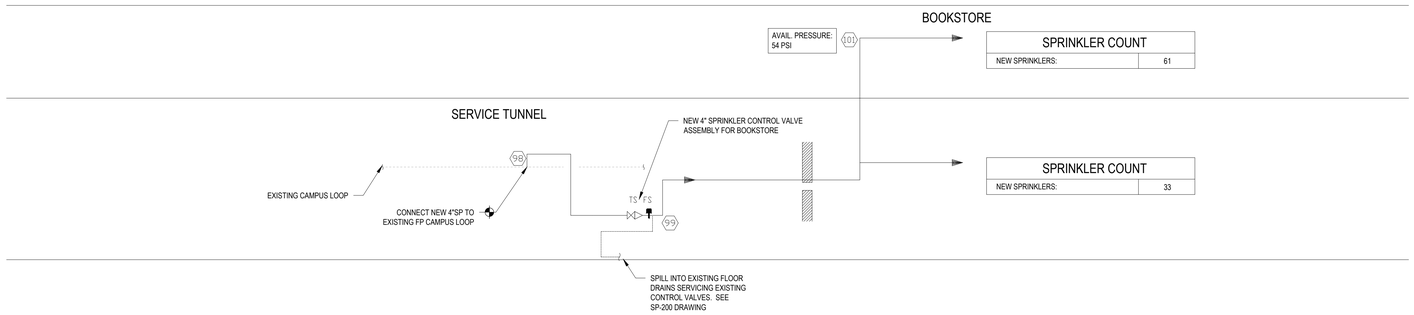
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SPRINKLER RISER DIAGRAM

NOT TO SCALE

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SPRINKLER - RISER DIAGRAM

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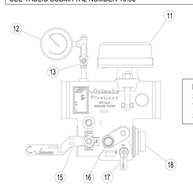
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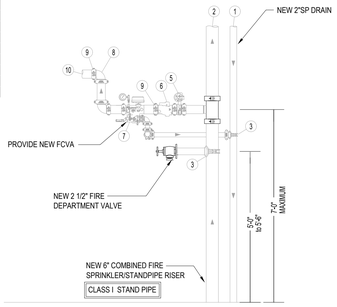
SP-300

PRODUCT LEGEND	
1	DRAIN RISER
2	6" COMBINED SPRINKLER/STANDPIPE RISER
3	MECHANICAL TEE STYLE 920N
4	NOT USED
5	FIRELOCK BUTTERFLY VALVE SERIES 705W
6	FIRELOCK CHECK VALVE SERIES 717
7	FIRELOCK ZONE CONTROL RISER MODULE SERIES 747M
8	FIRELOCK 90 DEG ELBOW NO. 001
9	FIRELOCK EZ RIGID COUPLING STYLE 009N (OR) RIGID COUPLING STYLE 005
10	TO SPRINKLER SYSTEM
11	UL LISTED FM APPROVED FLOW SWITCH (SYSTEM SENSOR MODEL WFD)
12	PRESSURE GAUGE
13	ISOLATION VALVE FOR GAUGE
14	NOT USED
15	SHUT OFF VALVE (OFFSET HANDLE FOR ACCESS ON BOTH SIDES)
16	SITE GLASS (VISIBLE FROM BOTH SIDES)
17	TEST AND DRAIN VALVE (HANDLE ON BOTH SIDES)
18	GROOVED DRAIN CONNECTION
SEE TAULIC SUBMITTAL NUMBER 10.96	

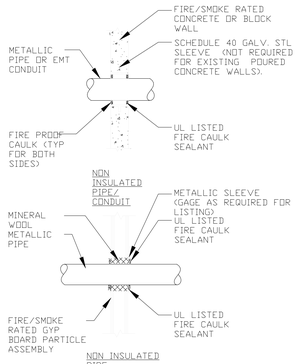


FIRELOCK ZONE CONTROL RISER MODULE

PROVIDE CUSTOM SIGNAGE INDICATING WHAT ZONE / AREA VALVE SERVES



1 NEW TYPICAL FLOOR CONTROL VALVE ASSEMBLY
SP-400 NOT TO SCALE

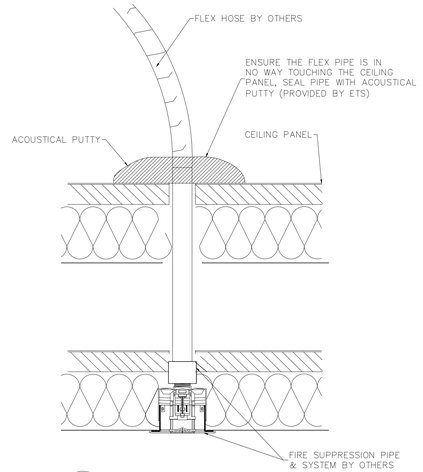


GENERAL NOTES:

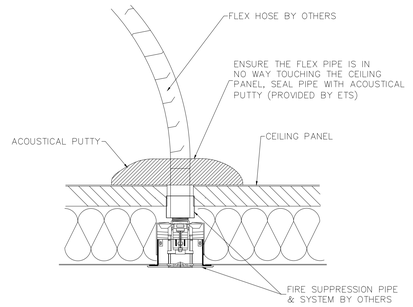
PROVIDE UL LISTED, FM APPROVED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE AND INSULATION THICKNESS INSTALLED.

FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATING AND LOCATIONS

3 PIPE PENETRATION WITH FIRE/SMOKE SEAL
SP-400 NOT TO SCALE

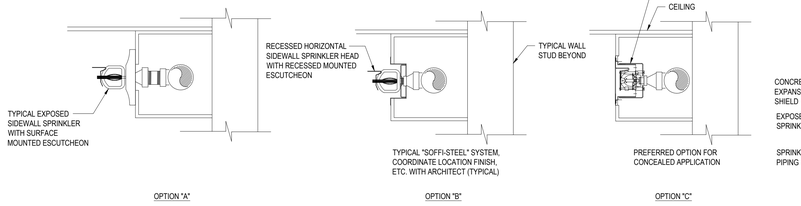


3 DOUBLE CEILING PANEL SPRINKLER DETAIL
SP-400 NOT TO SCALE



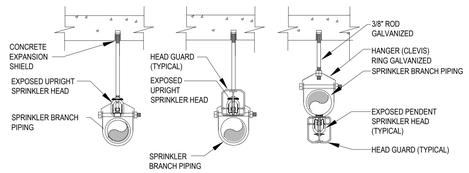
4 SINGLE CEILING PANEL SPRINKLER DETAIL
SP-400 NOT TO SCALE

CONTRACTOR SHALL PROVIDE LISTED HEAD GUARDS FOR USE WITH SPRINKLERS IN AREAS SUBJECT TO MECHANICAL DAMAGE. COORDINATE AREAS WITH OWNER, PRIOR TO INSTALLATION



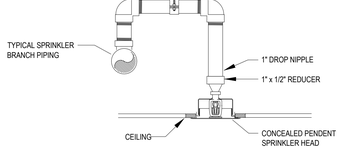
5 TYPICAL SIDEWALL SPRINKLER HEAD IN SOFFIT ENCLOSURE
SP-400 NOT TO SCALE

ALL HANGERS MUST IN ACCORDANCE WITH NFPA 13 AND BE SECURED TO STRUCTURAL MEMBERS UNLESS ENGINEERING DATA IS PROVIDED FOR ALTERNATE METHODS.



6 TYPICAL EXPOSED SPRINKLER HEADS
SP-400 NOT TO SCALE

CONTRACTOR SHALL PROVIDE LISTED HEAD GUARDS FOR USE WITH SPRINKLERS IN AREAS SUBJECT TO MECHANICAL DAMAGE. COORDINATE AREAS WITH OWNER, PRIOR TO INSTALLATION



7 TYPICAL CONCEALED PENDENT SPRINKLER HEAD ON RETURN BEND
SP-400 NOT TO SCALE

SPRINKLER HEAD SCHEDULE

SYMBOL	TYPE	STYLE	RESPONSE	COVERAGE	COLOR	DISCHARGE COEFFICIENT (K)	ORIFICE	TEMPERATURE	MINIMUM OPERATING PRESSURE	MAXIMUM OPERATING PRESSURE	MAXIMUM SPACING:	MINIMUM SPACING:	MINIMUM FLOW:	MINIMUM FLOW DENSITY:	MANUFACTURER MODEL	MANUFACTURER SIN	REMARKS
●	PENDENT	CONCEALED	QUICK	STANDARD	WHITE	5.8 K	1/2"	165 F° (ORDINARY)	7.6 PSI	175 PSI	16'-0" X 16'-0"	6'-0" X 6'-0"	16 GPM	0.05 GPM/SQ FT	VIKING		
															FREEDOM	VK474	QUICK RESPONSE TYPE CONCEALED
○	UPRIGHT	EXPOSED	QUICK	STANDARD	BRASS	5.6 K	1/2"	155 F° (ORDINARY)	7 PSI	175 PSI	15'-0" X 15'-0"	6'-0" X 6'-0"	23 GPM	0.1 GPM/SQ FT	VIKING		
															MICROFAST	VK300	QUICK RESPONSE TYPE UPRIGHT
●FX	PENDENT	CONCEALED	QUICK	STANDARD	WHITE	5.8 K	1/2"	165 F° (ORDINARY)	7.6 PSI	175 PSI	16'-0" X 16'-0"	6'-0" X 6'-0"	16 GPM	0.05 GPM/SQ FT	FLEXHEAD INDUSTRIES		
															LEXHEAD	AS-A504	QUICK RESPONSE TYPE CONCEALED FLEX PIPING
◄	SIDEWALL	CONCEALED	QUICK	STANDARD	WHITE	4.0 K	1/2"	165 F° (ORDINARY)	10.6 PSI	175 PSI	14'-0" X 14'-0"	8'-0" X 8'-0"	13 GPM	0.05 GPM/SQ FT	VIKING		
															FREEDOM	VK480	CONCEALED HORIZONTAL SIDEWALL SPRINKLER (RESIDENTIAL TYPE)
◁	SIDEWALL	EXPOSED	QUICK	EXTENDED	WHITE	5.8 K	1/2"	165 F° (ORDINARY)	15.7 PSI	175 PSI	16-0" X 20'-0"	8'-0" X 8'-0"	23 GPM	0.05 GPM/SQ FT	VIKING		
															FREEDOM	VK490	CONCEALED HORIZONTAL EXTENDED SIDEWALL SPRINKLER (RESIDENTIAL TYPE)

NOTE:
FINAL COLOR SELECTION TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION

FLUSHING BALL VALVE SCHEDULE

PIPE SIZE	BALL VALVE SIZE
1" THRU 2-1/2"	LINE-SIZE FULL-PORT BALL VALVE
3"	ONE (1) 2-1/2"
4"	TWO (2) 2-1/2".
6"	THREE (3) 2-1/2"
8"	FOUR (4) 2-1/2"

NOTE :

FLUSHING FULL-PORT BALL VALVES SHALL BE PROVIDED ON UNDERGROUND MAINS (INSIDE THE BUILDING) AND ABOVE-GROUND MAINS, CROSS-MAINS, BRANCH LINES AND RUN OUTS OF NEW SPRINKLER SYSTEMS (WET AND DRY), TO FACILITATE ANY FUTURE PERIODIC INTERNAL INSPECTIONS, OBSTRUCTION INVESTIGATIONS AND AS-NEEDED FLUSHING WORK.

FIRE PROTECTION PIPE AND FITTING SCHEDULE

DESCRIPTION	SIZE	PIPE TYPE	PIPE SCHEDULE	FITTING TYPE	FITTING RATING	REMARKS
WET SPRINKLER PIPING	2" AND BELOW	STL-BLK	40	MIT	STD	--
WET SPRINKLER PIPING	2-1/2" AND LARGER	STL-BLK	40	GRV	STD	--
DRAIN PIPING	ALL	STL-BLK	40	MIT/GRV	STD	--

ABBREV.	DESCRIPTION
CI	CAST IRON
CLDI	CEMENT-LINED DUCTILE IRON
FL	FLANGE
STL-BLK	BLACK STEEL SEAMLESS
STD	STANDARD
GRV	GROOVED JOINT SYSTEM FITTINGS/COUPLINGS
GALV	GALVANIZED STEEL
MIT	MALLEABLE IRON THREADED

VALVE SCHEDULE

DESCRIPTION	SIZE	TYPE OS&Y	TYPE BUTTERFLY	TYPE CHECK	TYPE BALL	TYPE CLASS	REMARKS
WET SPRINKLER PIPING	2" AND BELOW	OS&YT	BFVT	CVT	BVT	175 PSI	--
WET SPRINKLER PIPING	2-1/2" AND LARGER	OS&YG	BFVG	CVG	BVG	175 PSI	--
DRAIN PIPING	ALL	--	--	--	BVT	175 PSI	--

ABB.	DESCRIPTION
BFVG	BUTTERFLY VALVE GROOVED
BFVT	BUTTERFLY VALVE THREADED
BVG	BUTTERFLY VALVE GROOVED - FULL PORT
BVT	BUTTERFLY VALVE THREADED - 2 - PIECE, FULL PORT, 400PSI
CVG	CHECK VALVE GROOVED
CVT	CHECK VALVE THREADED
OS&YG	OS&Y RISING STEM VALVE GROOVED
OS&YT	OS&Y RISING STEM VALVE THREADED

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BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

REVISIONS

GENERAL PLUMBING NOTES

1. THE GENERAL NOTES ON THIS SHEET APPLY TO ALL PLUMBING DRAWINGS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ASPECTS OF THE DESIGN, TO INCLUDE THE WORK OF SUB-TRADES.
3. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, ALTHOUGH NO ATTEMPT WAS MADE TO SHOW EVERY OFFSET, FITTING, BEAM, PIPE SUPPORT, CLEARANCE, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SURVEY ALL WORK AREAS AND SUBMIT FINAL, DETAILED COORDINATED SHOP DRAWINGS FOR REVIEW BY THE DESIGNER OF RECORD TO ENSURE THAT THE DESIGN INTENT WILL BE MET AND THAT ALL TRADES ARE PROPERLY COORDINATED. CHANGES REQUIRED TO FIT EQUIPMENT, AND PIPING SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
4. THE WORK INCLUDES ALL ITEMS OF THE SPECIFICATIONS THAT ARE WRITTEN SEPARATELY IN A SPECIFICATIONS BOOK.
5. ALL WORK SHALL BE DONE WITH COMPLETE COMPLIANCE WITH THE PUBLISHED EDITIONS OF THE APPLICABLE CODES AND STANDARDS WHETHER STATUTORY OR NOT. ALL WORK SHALL BE INSTALLED TO COMPLY WITH THE NEW YORK STATE BUILDING, PLUMBING, AND FIRE CODES, UNDERWRITER'S LABORATORY, INC., AMERICAN NATIONAL STANDARD INSTITUTE, INC., AND CODES AND STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). IF ANY PART OF THE INSTALLATION DOES NOT MEET CODE, NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING THE INSTALLATION. IF ANY PART OF THE PROJECT CANNOT BE INSTALLED TO CONFORM WITH THE PLANS AND/OR SPECIFICATIONS, NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING THE INSTALLATION.
6. UNLESS STATED OTHERWISE, ALL EXISTING MATERIAL AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE PROJECT OWNER.
7. THE CONTRACTOR SHALL DEVELOP AND PRESENT A CONSTRUCTION PLAN AND WORK SCHEDULE WITH ALL PHASING, STAGING, AND SEQUENCING OF WORK FOR APPROVAL PRIOR TO THE COMMENCEMENT AND BEGINNING IMPLEMENTATION OF HIS WORK. THE CONTRACTOR SHALL DETERMINE PRIOR TO SUBMITTING HIS WORK SCHEDULE, THE SPECIFIC TIME AVAILABILITY OF ALL AREAS AND SPACES AND DETERMINE WHAT WORK MUST BE DONE DURING "OFF HOURS".
8. WITH THE EXCEPTION OF SIGNIFICANT NOISE GENERATING ACTIVITIES SUCH AS CORE DRILLING, ETC., WORK OUTSIDE OF THE OCCUPIED SPACES, SUCH AS ON THE ROOF, ETC., MAY BE PERFORMED DURING NORMAL WORKING HOURS.
9. UNLESS SPECIFICALLY NOTED AS EXISTING, ALL ITEMS, EQUIPMENT, AND WORK SHOWN IS NEW AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
10. DURING THE EXECUTION OF THIS CONTRACT, THE SITE AND BUILDINGS WILL BE OCCUPIED AND IN USE. WORK DONE UNDER THIS CONTRACT SHALL BE PERFORMED WITHOUT INCONVENIENCE TO THE OWNER INSOFAR AS POSSIBLE. ALL WORK SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND IS SUBJECT TO THEIR CONTINUOUS APPROVAL.
11. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ALL CHARACTERISTICS OF THE EQUIPMENT THAT HE INTENDS TO INSTALL AND MUST FOLLOW MANUFACTURER RECOMMENDATIONS FOR PROPER INSTALLATION. IF THERE ARE ANY DIFFERENCES IN THE EQUIPMENT SHOWN ON THE DESIGN DRAWINGS AND THE EQUIPMENT TO BE INSTALLED, THE CONTRACTOR SHALL MAKE ALL CHANGES AND ADJUSTMENTS TO ACCOMMODATE THE PROPOSED EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. THIS APPLIES TO ALL SUPPORT SERVICES AND FACILITIES NECESSARY TO PROPERLY INSTALL THE EQUIPMENT TO FUNCTION ADEQUATELY AS PART OF THE SYSTEMS FOR WHICH THEY WERE DESIGNED AND SELECTED. THESE CHARACTERISTICS INCLUDE SUCH THINGS AS WEIGHT, CLEARANCE, DIMENSIONS, ELECTRICAL, MECHANICAL, PLUMBING, AND UTILITY SERVICES, ETC. ACCOMMODATING SERVICES INCLUDE SUCH THINGS AS DIMENSIONS, LOCATIONS, AND SIZES OF SUPPORTING MEMBERS, PIPE, CONNECTION SIZES, ELECTRICAL SERVICE SIZE AND PROTECTION, ELECTRICAL CONNECTION LOCATION, UTILITY AND PLUMBING CONNECTION SIZES AND LOCATIONS, ETC. ALL CHANGES SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT A/E AND THE OWNER'S REPRESENTATIVE.
12. BEFORE ANY DEMOLITION OR CONSTRUCTION WORK IS BEGUN, THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL SURVEY THE EXISTING BUILDING AREA TO BE MODIFIED AND/OR REPLACED TO ACCURATELY DOCUMENT EXISTING CONDITIONS. THIS SURVEY WILL BE USED BY THE OWNER'S REPRESENTATIVE AT JOB COMPLETION TO DETERMINE WHICH BUILDING/SITE COMPONENTS MUST BE REPLACED WITH NEW.
13. UNLESS STATED OTHERWISE, REQUEST APPROVAL FROM THE OWNER'S REPRESENTATIVE SEVEN DAYS IN ADVANCE FOR THE SHUTDOWN OF ANY EXISTING SYSTEM.
14. UNLESS STATED OTHERWISE, FINAL ADVANCE NOTICE OF 48 HOURS SHALL BE GIVEN TO THE OWNER'S REPRESENTATIVE PRIOR TO THE PROPOSED SHUTDOWN OF ANY SYSTEM.
15. THE CLOSING AND OPENING OF VALVES SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE; NOTIFY LOCAL AUTHORITIES AS REQUIRED.
16. THE CONTRACTOR SHALL NOT PENETRATE OR CUT ANY STRUCTURAL MEMBERS NOT SPECIFICALLY SHOWN ON THE DRAWINGS (E.G., JOISTS, BEAMS, ETC.). IF STRUCTURAL MEMBERS CONFLICT WITH ROUTING, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING. EXERCISE CAUTION IN CUTTING CONCRETE FLOORS AND WALLS TO AVOID EXISTING UTILITIES WHICH MAY BE LOCATED IN AND UNDER CONCRETE SURFACES.
17. THE CONTRACTOR SHALL PROVIDE NEW OPENINGS IN WALLS, FLOOR, AND ROOF, AND PATCH EXISTING OPENINGS IN CONJUNCTION WITH THE DEMOLITION ANDINSTALLATION OF THE NEW BUILDING COMPONENTS, INCLUDING MECHANICAL, PLUMBING, ELECTRICAL, AND GENERAL CONTRACTOR'S ITEMS. ALL NECESSARY FRAMING, COUNTER-FLASHING, ETC. SHALL BE INCLUDED.
18. FOR ALL FLOOR, WALL, AND ROOF PENETRATION, VERIFY THE LOCATION OF THE EXISTING STRUCTURAL MEMBERS PRIOR TO DRILLING AND CUTTING, RELOCATE OPENINGS AS REQUIRED AND OFFSET DUCTS, PIPES, CONDUIT, ETC.
19. FOR EACH PHASE AND BEFORE INTERRUPTING EACH EXISTING UTILITY, DETERMINE, IN ADVANCE, IF ANY DOWNSTREAM SERVICE BEYOND THE CONSTRUCTION AREA OF THE PHASE, WILL BE INTERRUPTED AND PROVIDE A TEMPORARY SERVICE BYPASSING THE CONSTRUCTION AREA. PREPARE A DETAILED SHOP DRAWING SHOWING ALL OF THE EXISTING UTILITIES IN THEIR RELOCATED LOCATION AND ALL NEW PLUMBING SYSTEMS.
20. EXISTING DUCTWORK, DOMESTIC COLD WATER PIPING, DOMESTIC HOT WATER PIPING, CHILLED AND HEATING HOT WATER PIPING, WASTE, VENT, FIRE SPRINKLER LINES, FIRE ALARM EQUIPMENT, ELECTRICAL CONDUIT, TELEPHONE CONDUIT, COMMUNICATION CONDUIT, PNEUMATIC TUBING, ETC., MAY HAVE TO BE RELOCATED TO FACILITATE THE INSTALLATION OF THE NEW WORK. THERE WILL BE NO EXTRA COMPENSATION TO THE CONTRACTOR FOR THIS WORK.
21. THE CONTRACTOR SHALL PAY FOR ALL DAMAGE, INCLUDING WATER DAMAGE, TO PROPERTY AND EQUIPMENT CAUSED BY HIS WORK THROUGHOUT THE CONSTRUCTION AND WARRANTEE PERIOD.
22. ANY DEVICE THAT REQUIRES ACCESS FOR ADJUSTMENT OR ROUTINE MAINTENENANCE, SUCH AS BUT NOT LIMITED TO VALVES, CONTROL DEVICES, ETC. SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
23. ALL UL LISTED EQUIPMENT SHALL BE INSTALLED AS PER LISTING OR LABELING.
24. PATCH AND PAINT TO MATCH EXISTING, ALL SURFACES DAMAGED BY THE DEMOLITION AND ALL OPENINGS NOT TO BE REUSED.
25. REPAIR DAMAGE TO CEILING, WALLS, ETC. TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
26. WHEN A DETAIL OR NOTE IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THE DETAIL OR NOTE TO EVERY SIMILAR CONDITION, WHETHER OR NOT THE REFERENCED DETAIL OR NOTE IS REPEATED OR REFERENCED.
27. WHERE NO CONSTRUCTION DETAIL IS INDICATED, SUCH WORK SHALL BE SIMILAR TO COMPARABLE WORK DETAILED OR NOTED ELSEWHERE OR TO MATCH EXISTING CONDITIONS, SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
28. ALL HOLES, VOIDS, AND DAMAGED OR UNEVEN SURFACES WHICH ARE CAUSED BY THE CONTRACTOR'S WORK AND WHICH REMAIN EXPOSED IN THE WALL, FLOOR, CEILING, OR OTHER SURFACES SHALL BE PATCHED, REPAIRED, AND BROUGHT FLUSH WITH THE ADJACENT CONSTRUCTION. SUCH SURFACES, NOT CONCEALED BY THE NEW CONSTRUCTION, SHALL MATCH IN EVERY RESPECT THE EXISTING NON-DAMAGED CONSTRUCTION. REMOVE EXISTING UTILITIES BACK BEHIND EXISTING SURFACES AND CAP SO AS NOT TO INTERFERE WITH NEW PATCHES.
29. WHEREVER NEW WALL, FLOOR, OR CEILING FINISHES ARE INDICATED, THE CONTRACTOR SHALL BRING EXISTING PLUMBING, AND OTHER BUILDING COMPONENTS FLUSH WITH THE NEW FINISHED SURFACES IF APPROPRIATE.
30. THE DEMOLITION SHALL INCLUDE ALL ASSOCIATED ANCHORAGES, HANGERS, SUPPORTS, BRACES, FASTENERS, MASTIC, MORTAR, LATH, AND RELATED ITEMS. THE EXISTING SUBSTRATE, INCLUDING CONCRETE, MASONRY, METAL FRAMING AND FURRING SHALL BE REPAIRED WHERE DAMAGE BY THE CONTRACTOR'S WORK.
31. PROVIDE ALL VALVES, INSTRUMENTS, FITTINGS, ETC. AS SHOWN ON THE PIPING DIAGRAMS, SCHEMATICS, ETC. IT IS NOT POSSIBLE TO SHOW ALL VALVES, INSTRUMENTS, ETC. ON THE PLANS, HOWEVER, SELECTED VALVES HAVE BEEN SHOWN FOR REFERENCE. ALL VALVES SHALL BE ACCESSIBLE FROM THE FLOOR OR FROM FIXED PLATFORMS.
32. ALL EQUIPMENT AND MATERIALS SUBJECT TO THE WEATHER THAT ARE NOT FACTORY PAINTED SHALL BE FIELD PAINTED AND WEATHER PROOFED WITH PRIMER, AND TWO COATS OF EXTERIOR PAINT. MATCH THE COLOR OF THE EXISTING BUILDING EXTERIOR. THE COLOR AND QUANTITY OF THE PAINT IS SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE. SUBMITTAL REQUIRED.
33. INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS. COMPLY WITH REQUIREMENTS FOR SLEEVES SPECIFIED IN SECTION 220517 "SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING."
34. INSTALL SLEEVE SEALS FOR PIPING PENETRATIONS OF CONCRETE WALLS AND SLABS. COMPLY WITH REQUIREMENTS FOR SLEEVE SEALS SPECIFIED IN SECTION 220517 "SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING."
35. FOR FIRE-RESISTANCE-RATED PENETRATIONS, HORIZONTAL ASSEMBLY PENETRATIONS, AND SMOKE BARRIER PENETRATIONS, MAINTAIN INDICATED FIRE OR SMOKE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRE- AND SMOKE-STOP MATERIALS. COMPLY WITH REQUIREMENTS FOR FIRESTOPPING AND FILL MATERIALS SPECIFIED IN SECTION 078413 "PENETRATION FIRESTOPPING."

PLUMBING LEGEND

SYMBOL OR ABBREVIATION	DESCRIPTION
	EXISTING PIPE/EQUIPMENT TO REMAIN
	EXISTING PIPE/EQUIPMENT TO BE REMOVED
S	SANITARY PIPING ABOVE FINISHED FLOOR/SLAB (S, SAN.)
W	WASTE PIPING ABOVE FINISHED FLOOR/SLAB (W)
S	SANITARY PIPING UNDER FINISHED FLOOR/SLAB (S, SAN.)
W	WASTE PIPING UNDER FINISHED FLOOR/SLAB (W)
V	VENT PIPING (V)
CW	DOMESTIC COLD WATER PIPING (CW)
HW	DOMESTIC HOT WATER PIPING (HW)
HWC	DOMESTIC HOT WATER RECIRC. PIPING (HWC)
FCW	FILTERED COLD WATER PIPING (FCW)
	PIPE DROP/DOWN (DN)
	PIPE RISE/UP
CO	BALL VALVE
	BALANCING VALVE
	CHECK VALVE
	MIXING VALVE
	CLEANOUT (CO), WALLPLATE CLEANOUT (WPCO)
	DECKPLATE CLEANOUT (DPCO)
	NON-FREEZE WALL HYDRANT (FPHB)
	HOSE BIBB (HB)
	CONNECT TO EXISTING
	POINT OF DISCONNECT

BLDG.	BUILDING	L#	LAVATORY - TYPE
C.I.	CAST IRON	M1	MOP SINK
CONN.	CONNECT	S#	SINK - TYPE
CO	CLEANOUT	STK.	STACK
D#	FLOOR DRAIN - TYPE	T.P.	TRAP PRIMER
EXIST.	EXISTING	TYP.	TYPICAL
FPHB	FREEZEPROOF HOSE BIBB	V.I.F.	VERIFY IN FIELD
GALV.	GALVANIZED	V.T.R.	VENT THROUGH ROOF
HB	HOSE BIBB	W#	WATER CLOSET - TYPE

NO. / SHEET — DETAIL DESIGNATION SYMBOL

PLUMBING DRAWING LIST

DRAWING NUMBER	DRAWING DESCRIPTION	SHEET #
P-001	PLUMBING - SYMBOLS, LEGEND AND NOTES	1 OF 6
P-100	PLUMBING - UPPER LEVEL & LOWER LEVEL PART PLANS DEMOLITION WORK	2 OF 6
P-200	PLUMBING - UPPER LEVEL & LOWER LEVEL PART PLANS NEW WORK	3 OF 6
P-300	PLUMBING - DETAILS AND PARTIAL RISER DIAGRAMS	4 OF 6
P-400	PLUMBING - SCHEDULES	5 OF 6

GENERAL DEMOLITION NOTES

1. ALL EQUIPMENT, FIXTURES, PIPING ETC. TO BE REMOVED SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, FIXTURES, PIPING, DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITH OUT THE OWNER'S APPROVAL.
2. ALL ABANDONED PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL ABANDONED SYSTEMS ARE PROPERLY CONCEALED, AND THAT EXISTING SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
3. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.
4. EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED. CONTRACTOR SHALL VERIFY PRIOR TO REMOVAL.
5. ALL SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
6. ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.
7. REROUTE OR REMOVE ALL EXISTING PIPING, AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.
8. COORDINATE PLUMBING SERVICES SHUT DOWNS (H&CW, WASTE, VENT SYSTEMS) WITH THE BUILDING MANAGER AND UTILITY COMPANY.
9. REMOVE ALL EXISTING INDIRECT WASTE UNDER EXISTING MILLWORK

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REVISIONS

ISSUE

PLUMBING - SYMBOLS, LEGEND AND NOTES

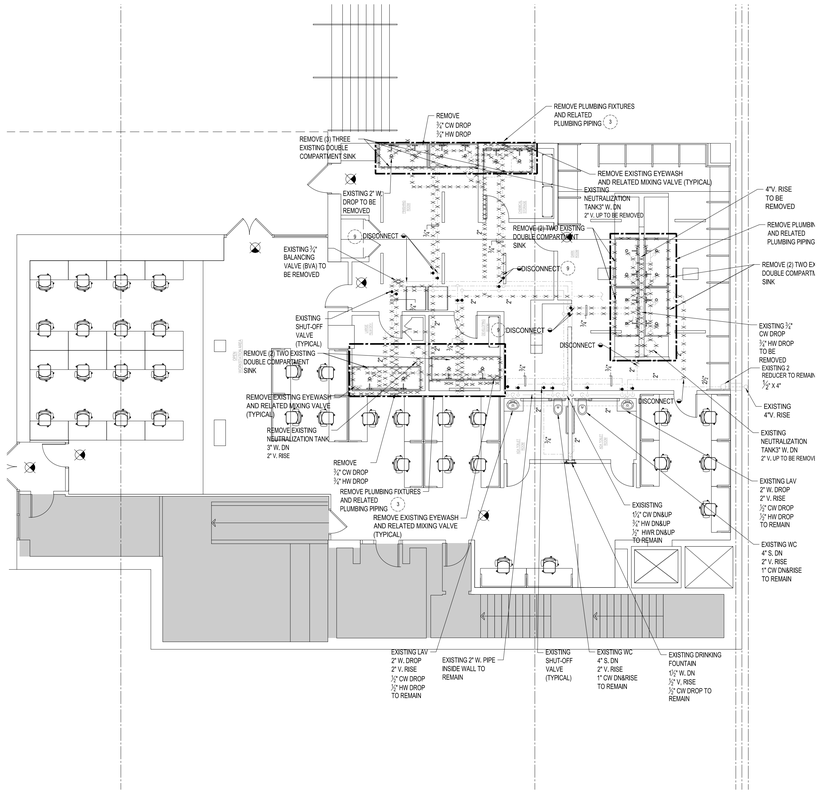
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GOODY CLANCY PROJECT NUMBER: 24006
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CHECKED: A.A | SCALE: 1/8" = 1'-0"
DRAWING NO.:

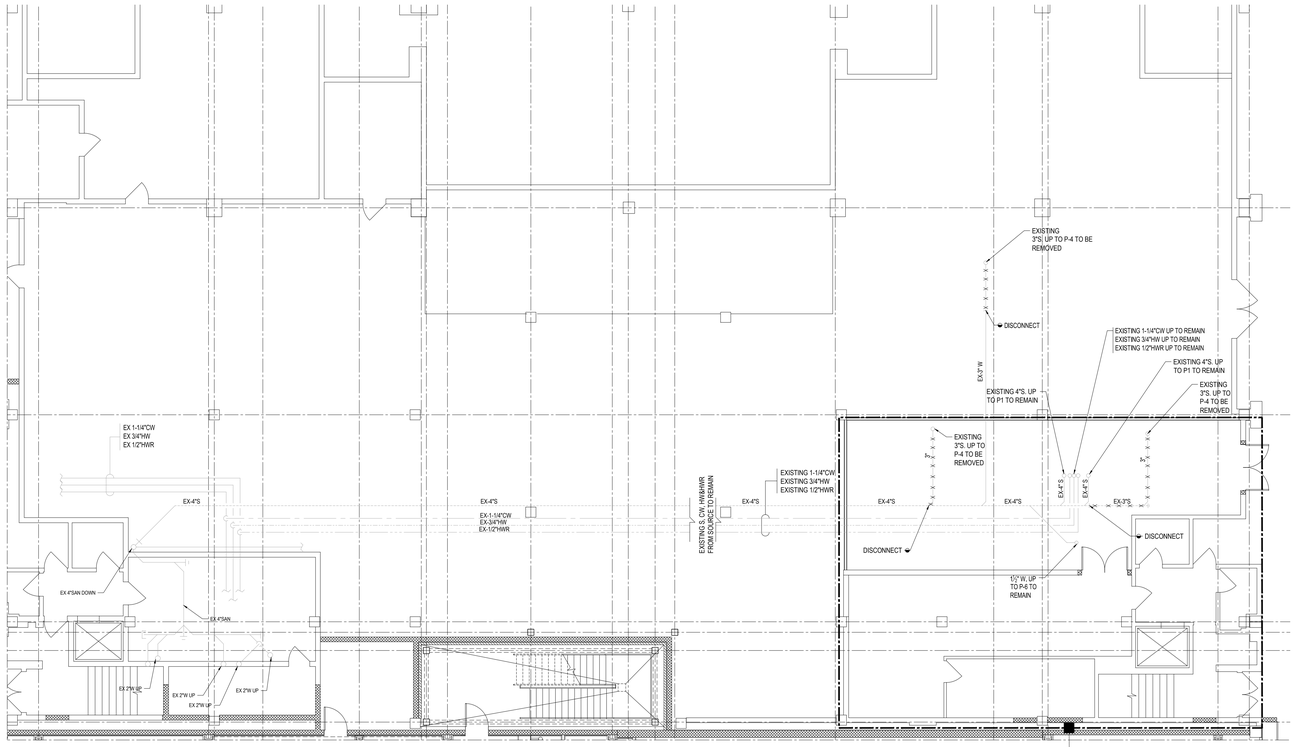
P-001

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL NOTIFY THE CAMPUS PRIOR TO THE REMOVAL OF ALL EQUIPMENT, FIXTURES, AND PIPING AND SHALL COORDINATE WITH THE CAMPUS FOR THE SALVAGE OF ANY EQUIPMENT, FIXTURES, OR PIPING BY THE CAMPUS. REMOVAL OF SALVAGED MATERIALS FROM THE PROJECT AREA TO A POINT OF STORAGE OR USE WILL BE CONDUCTED BY THE CAMPUS.
2. ALL ABANDONED PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL ABANDONED SYSTEMS ARE PROPERLY CONCEALED, AND THAT EXISTING SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
3. REMOVED PLUMBING PIPING UP TO SOURCE, TRIM AND CAP.
4. EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED. CONTRACTOR SHALL VERIFY PRIOR TO REMOVAL.
5. ALL SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
6. ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.
7. REROUTE OR REMOVE ALL EXISTING PIPING, AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.
8. COORDINATE PLUMBING SERVICES SHUT DOWNS (H&CW, WASTE, VENT SYSTEMS) WITH THE BUILDING MANAGER AND UTILITY COMPANY.
9. DISCONNECT EXISTING PIPING AS CLOSE AS POSSIBLE TO THE SOURCE. CAP ALL OPEN ENDS SECURELY TO PREVENT LEAKS, CONTAMINATION, AND PRESSURE LOSS



1 PLUMBING - UPPER LEVEL PART PLAN DEMOLITION WORK
Scale: 1/8" = 1'-0"



2 PLUMBING - LOWER LEVEL PART PLAN DEMOLITION WORK
Scale: 1/8" = 1'-0"

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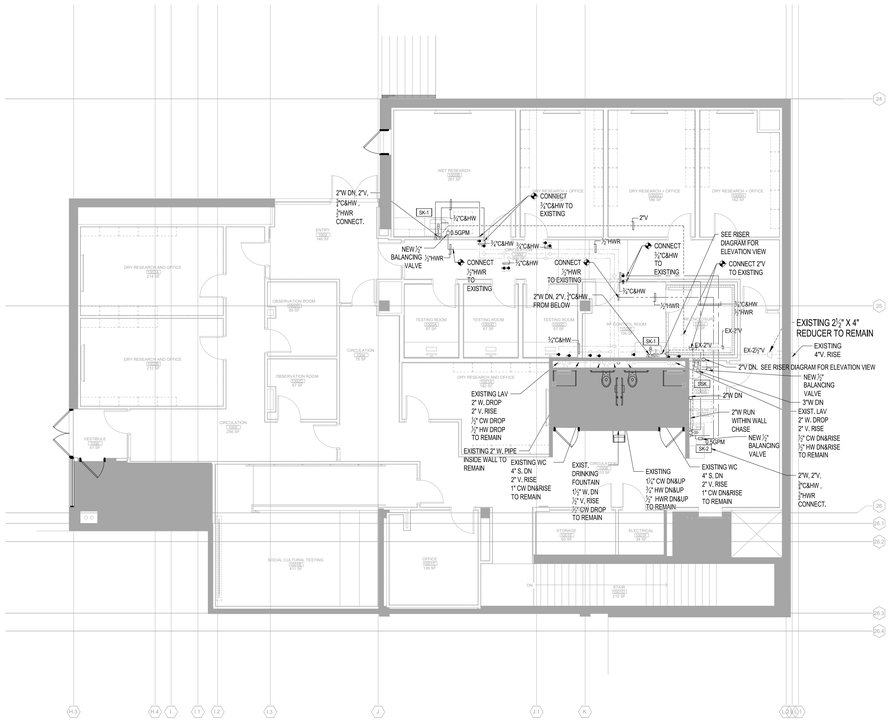
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PLUMBING - UPPER LEVEL & LOWER LEVEL PART PLANS DEMOLITION WORK

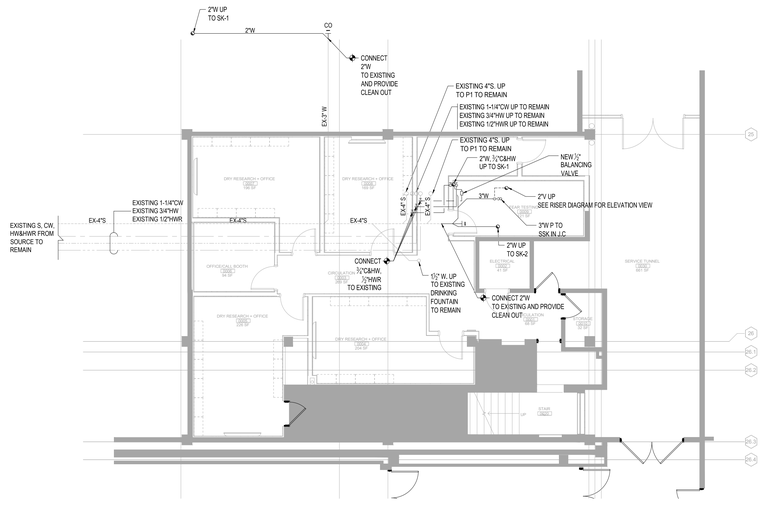
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1 PLUMBING - UPPER LEVEL PART PLAN NEW WORK
Scale: 1/8" = 1'-0"



2 PLUMBING - LOWER LEVEL PART PLAN NEW WORK
Scale: 1/8" = 1'-0"

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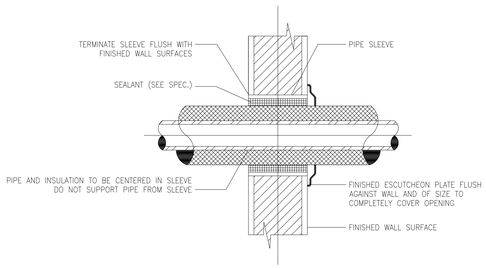
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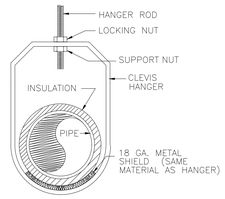
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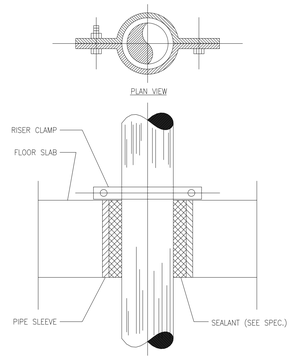
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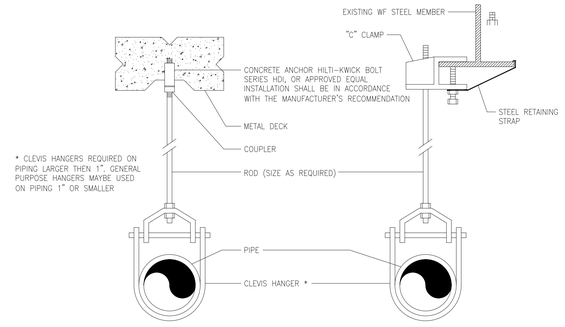
1 PIPE SLEEVE THRU INTERIOR WALL



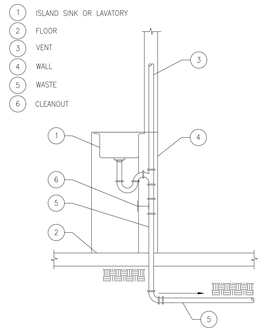
2 TYPICAL HANGER DETAIL



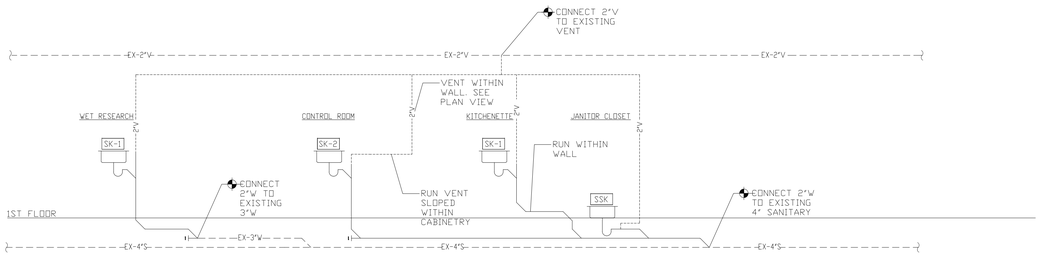
3 PIPE SLEEVE THRU FLOOR SLAB



4 TYPICAL HANGER DETAIL



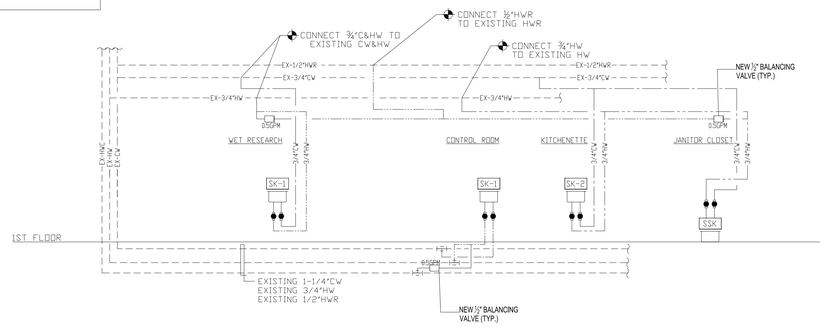
5 SINK DETAIL



BASEMENT

1 P-300 SANITARY PARTIAL RISER DIAGRAM

N.T.S



BASEMENT

1 P-300 DOMESTIC WATER PARTIAL RISER DIAGRAM

N.T.S

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PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	FIXTURE TYPE	FIXTURE MANUFACTURER MODEL, MODEL NO.	MATERIAL	DESCRIPTION	SUPPLY SIZE	TRAP SIZE	MINIMUM BRANCH SIZES WASTE/ SANITARY	VENT	COLD WATER	HOT WATER	REMARKS
SK-1	SINGLE COMP. LAB SINK	LAB SINK W/. WATER SAVER FAUCET MODEL #L414VB-BH	304 STAINLESS STEEL 18 GAUGE	SINGLE COMPARTMENT DROP IN LAB SINK, WITH WATER SAVER L414VB-BH SWING GOOSENECK FAUCET WITH HOSE CONNECTION AND VACUUM BREAKER. SEE ARCHITECTURAL DRAWINGS FOR BASIN DIMENSIONS.	1/2"	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	-
SK-2	SINGLE COMP. UNDER-MOUNT SINK	ELKAY MODEL # ELUHAD211550PD W/. FAUCET ELKAY MODEL #LK2500	304 STAINLESS STEEL 18 GAUGE	23.5"LX18.25"LX4.9"D SINGLE BOWL UNDERMOUNT SINK, REAR CENTER OUTLET. UTILITY FAUCET, DECK MOUNTED, FLEXIBLE SPOUT, SINGLE HANDLE WITH AERATOR. 1.5 GPM MAX. FLOW.	1/2"	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	-
SSK	ONE COMP. FLOOR MOP SINK	REGENCY MODEL # 600SM16206 WITH WATERLOO SERVICE FAUCET MODEL # 750FSS8	304 STAINLESS STEEL 16 GAUGE	16 GAUGE STAINLESS STEEL ONE COMPARTMENT FLOOR MOP SINK - 20" X 16" X 6" BOWL WITH WATERLOO WALL-MOUNTED SERVICE SINK FAUCET WITH 8" CENTERS	1/2"	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	-

REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND FINISHES

VALVE SCHEDULE

DESCRIPTION	SIZE	TYPE GATE	GLOBE	CHECK	BALL	PLUG	BALAN.	CLASS	REMARKS
DOMESTIC COLD WATER	2" AND SMALLER	GVT	GLVT	CVT	BVT	--	--	125 PSI	--
DOMESTIC HOT WATER	2" AND SMALLER	GVT	GLVT	CVT	BVT	--	CBV	125 PSI	--

SOLENOID VALVE: UL LISTED, FM APPROVED FOR GAS SERVICE, EXPLOSION PROOF, TWO-WAY NORMALLY CLOSED. SOLENOID VALVE: ASCO 8044 SERIES W/ MANUAL RESET. (EMERGENCY GAS SHUT-OFF VALVE ASSEMBLY)

ABBREVIATIONS ABB.	DESCRIPTION
BVA	BALL VALVE COMPRESSED AIR - 3-PIECE, 600 PSI, FULL PORT, BRONZE
BVF	BALL VALVE FLANGED - FULL PORT, BRONZE
BVM	BALL VALVE MEDICAL - CLEANED FOR OXYGEN SERVICE, 3-PIECE, 600 PSI, FULL PORT, BRONZE
BVT	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE
CBV	CALIBRATED BALANCING VALVE, BRONZE
CVF	CHECK VALVE FLANGED - IBBM
CVT	CHECK VALVE THREADED - BRONZE
GVF	GATE VALVE FLANGED - IBBM
GVT	GATE VALVE THREADED - BRONZE
GLVT	GLOBE VALVE THREADED - BRONZE
PGVF	PLUG VALVE FLANGED - AGA APPROVED
PGVT	PLUG VALVE THREADED - AGA APPROVED

PIPE AND FITTING SCHEDULE

DESCRIPTION	SIZE	PIPE TYPE	PIPE SCHEDULE	FITTING TYPE	FITTING RATING	REMARKS
SOIL, WASTE AND VENT ABOVE GROUND	ALL	CI - NH	SV	CI	SV	-
DOMESTIC COLD WATER WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC HOT WATER PIPING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC HOT WATER RECIRCULATION PIPING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
INDIRECT WASTE AND CONDENSATE PIPING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED

NOTE: NO-HUB OR TRANSITION COUPLINGS ARE NOT PERMITTED BELOW GRADE, BELOW SLABS OR BURIED IN CONTACT WITH EARTH.

ABBREV.	DESCRIPTION
AWWA	AMERICAN WATER WORKS ASSOCIATION
CI	CAST IRON
CLDI	CEMENT-LINED DUCTILE IRON
CPVC	CHLORINATED POLYVINYL CHLORIDE
CUS	WROUGHT COPPER SOLDER (95/5)
DI	DUCTILE IRON
DIMJ	DUCTILE IRON MECHANICAL JOINT
GES	GROOVED END STEEL
GJ	GROOVED JOINT SYSTEM FITTINGS/COUPLINGS
GS	GALVANIZED STEEL
H&S	HUB AND SPIGOT
MJ	MECHANICAL JOINT
MIT	MALLEABLE IRON THREADED
NH	NO HUB W/HEAVY DUTY 4-BAND HUSKY CLAMP
PEX	PEX PIPING
PF	PRESSURE FITTINGS
STD	STANDARD
STL-BLK	BLACK STEEL SEAMLESS
SV	SERVICE WEIGHT
TJ	THREADED JOINTS
WE	BUTT WELD

INSULATION SCHEDULE

SYSTEM	PIPE SIZE	PIPE INSULATION TYPE	PIPE INSULATION THICKNESS	FITTINGS, VALVES, FLANGES - INSULATION TYPE	REMARKS
DOMESTIC COLD WATER	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER PVC JACKET	TYPE I
DOMESTIC HOT WATER	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER PVC JACKET	TYPE I
KITCHEN WASTE ABOVE GROUND	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER PVC JACKET	TYPE I

NOTE 1: FIBERGLASS INSULATION: THERMAL CONDUCTIVITY .22 TO .28 BTU x IN./H x FT x °F W/ 100°F MEAN TEMP. THICKNESS BASED ON ASHRAE 90.1, 2007, TABLE 6.8.3
NOTE 2: PROVIDE INSULATION ON FLOOR DRAIN TRAPS COLLECTING COLD CONDENSATE
NOTE 3: REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

POTABLE-WATER PIPING AND COMPONENTS SHALL COMPLY WITH NSF 14, NSF 61, AND NSF 372

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PLUMBING - SCHEDULES

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GENERAL DEMOLITION NOTES

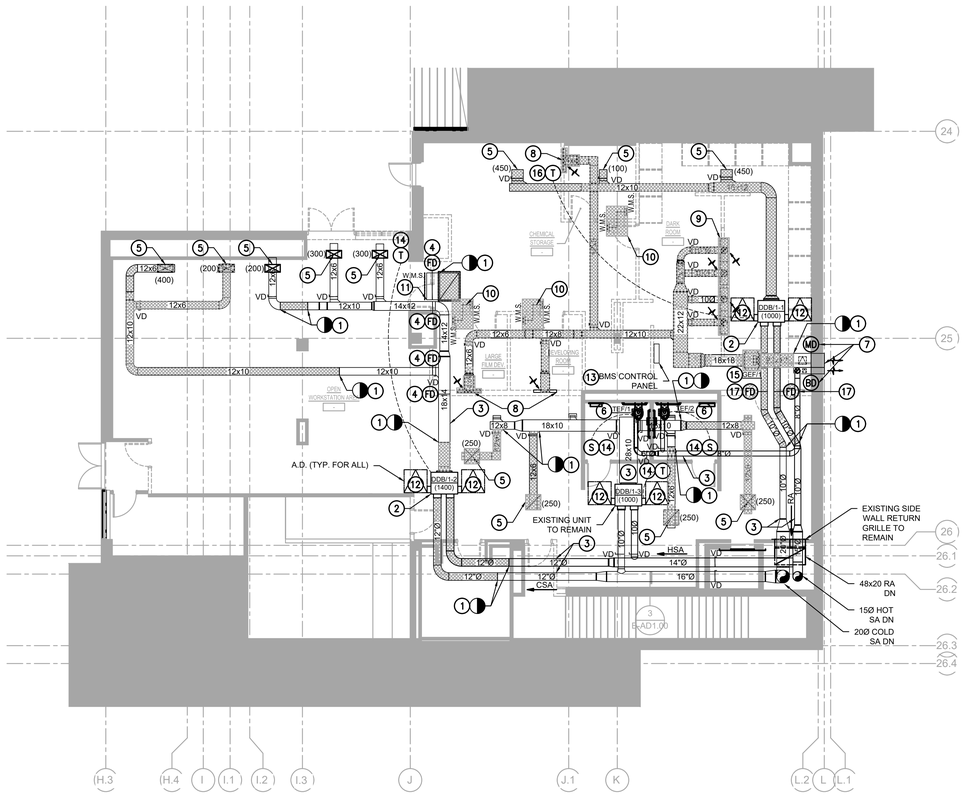
1. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VISIT THE AND VERIFY AND BECOME FAMILIAR WITH RELATIVE LOCATIONS AND EXISTING CONDITIONS. SUBMITTED BIDS WILL BE INTERPRETED TO MEAN THE CONTRACTOR VISITED THE SITE, AND ALL COST AND CHARGES MADE NECESSARY BY THE EXISTING CONDITIONS ARE INCLUDED.
2. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, AND SERVICES FOR THE PROPER EXECUTION OF DEMOLITION WORK. ANY LABOR, MATERIAL, EQUIPMENT AND SERVICE NECESSARY SHALL BE PROVIDED AS IF CALLED FOR.
3. PROVIDE LADDERS, TOOLS AND OTHER EQUIPMENT AND SERVICES FOR THE MECHANICAL WORK. REMOVE IT UPON COMPLETION OF WORK.
4. WORK SHALL CONFORM TO THE LATEST EDITION OF ALL APPLICABLE LAWS, CODES AND REGULATIONS HAVING JURISDICTION.
5. SECURE ALL PERMITS, INSPECTIONS AND CERTIFICATED REQUIRED, AND PAY ALL FEES OR CHARGES FOR THE SAME.
6. WHEN WORK INVOLVES ASBESTOS, PCB OR OTHER TOXIC MATERIALS, CONTRACTOR SHALL NOTIFY OWNER WHO WILL RETAIN AN INDUSTRIAL HYGIENIST TO ESTABLISH STANDARD PROCEDURES FOR WORKING WITH/OR REMOVING TOXIC MATERIALS.
7. PROVIDE SUITABLE WRAPPING AND OTHER PROTECTION NECESSARY TO PREVENT DAMAGE TO MECHANICAL EQUIPMENT AND MATERIAL. REMOVE ALL SUCH PROTECTIVE DEVICES WHEN THEIR USE BECOMES UNNECESSARY.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF ALL EXISTING STRUCTURAL ELEMENTS DURING ALL PHASES OF HIS/HER WORK.
9. PROVIDE WEATHER TIGHT AND SECURE CLOSURES FOR ANY BUILDING OPENING LEFT OVERNIGHT. THE CONTRACTOR IS RESPONSIBLE FOR ANY BREACHED OF SECURITY OR DAMAGE CAUSED AS A RESULT OF INSUFFICIENT PROTECTION.
10. PROVIDE APPROPRIATE SEPARATION BETWEEN THE CONSTRUCTION AREA AND ADJACENT OCCUPIED SPACES TO PREVENT MIGRATION OF DUST, ODORS AND SUBSTANCES HAZARDOUS TO HUMAN HEALTH.
11. AT ALL TIMES KEEP PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL AND RUBBISH CAUSED BY AGENTS AND EMPLOYEES OF THE CONTRACTOR. RUBBISH IS TO BE REMOVED FROM THE SITE BY THE GENERAL CONTRACTOR; THE MECHANICAL CONTRACTOR SHALL ON A WEEKLY BASIS GATHER THE RUBBISH HE CREATED AND PILE IT AT THE LOCATION DESIGNATED BY THE GENERAL CONTRACTOR. IN THE EVENT OF DISPUTE OR REFUSAL TO COMPLY WITH REQUIREMENTS OF THE ABOVE PARAGRAPHS, THE OWNER SHALL HAVE THE OPTION OF REMOVING SUCH RUBBISH FROM THE PREMISES, AND BACK-CHARGING THE CONTRACTOR FOR DOING SUCH WORK.
12. REMOVED EQUIPMENT AND MATERIAL NOT DESIRED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL PROMPTLY REMOVED FROM THE SITE. EQUIPMENT AND MATERIAL DESIRED BY THE OWNER SHALL BE DELIVERED BY THE CONTRACTOR TO LOCATION DESIGNATED BY THE OWNER. OWNER WILL TAG OR OTHERWISE INDICATE THE EQUIPMENT AND MATERIAL HE DESIRES TO KEEP.
13. PROVIDE SUITABLE FIRE RATED PATCHING FOR MECHANICAL SYSTEMS AND EQUIPMENT OPENINGS CREATED BY DEMOLITION.
14. EXISTING MECHANICAL WORK THAT IS TO REMAIN, WHEN EXISTING STRUCTURE IN WHICH IT IS INSTALLED IS TO BE REMOVED, SHALL BE TEMPORARY SUPPORTED IN PLACE.
15. ALL EXISTING DEVICES AND CONTROLS INDICATED TO BE RELOCATED SHALL BE REMOVED WITH CARE AND STORED UNTIL RE-INSTALLATION.
16. REMOVAL OF EQUIPMENT, DUCTWORK, AND PIPING SHALL INCLUDE REMOVAL OF ALL ASSOCIATED VALVES, FITTINGS, HANGERS, SUPPORTS, CONTROLS, AND APPURTENANCES.
17. INFILL ALL OPENINGS LEFT BY REMOVED DUCTWORK AND PIPING. COORDINATE THIS WORK WITH GENERAL CONTRACTOR.
18. CAN AND SEAL AIR TIGHT, OPENINGS IN EXISTING DUCTWORK TO REMAIN LEFT BY REMOVAL OF DUCT BRANCHES. CAP FLUSH TO EDGE OF MAIN DUCT. REMOVAL OF ALL EXISTING DUCT COLLARS FROM EXISTING DUCTS TO REMAIN AND CAP FLUSH TO EDGE OF MAIN DUCT.
19. PLUG ALL TAPS AT MAINS WHERE BRANCH PIPING HAS BEEN REMOVED. WHERE EXISTING VALES ARE TO REMAIN, THE VALVES SHALL BE CLOSED AND CAPPED.

KEY NOTES

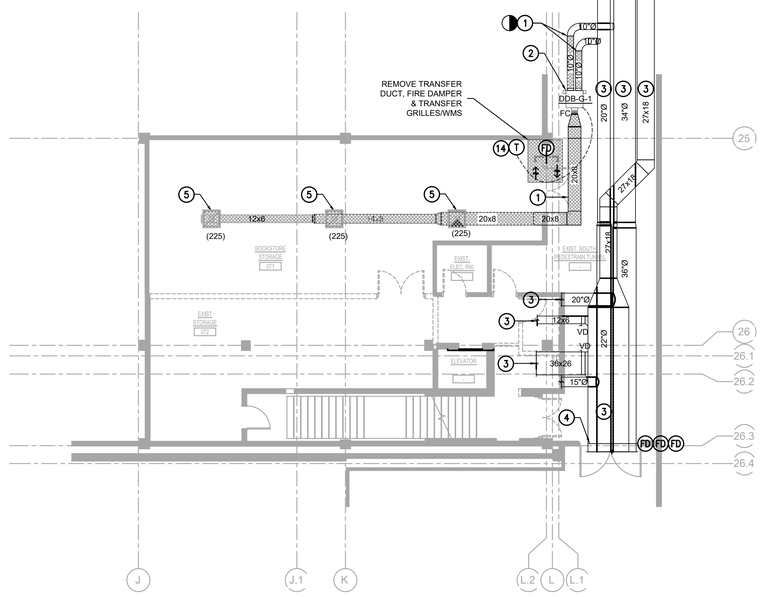
1. REMOVE EXISTING DUCTWORK UP TO POINT OF DISCONNECTION. PROVIDE AIR TIGHT CAP FOR FUTURE USE/DURING CONSTRUCTION.
2. EXISTING AHU AND ALL ASSOCIATED ACCESSORIES TO REMAIN AND TO BE RELOCATED. RELOCATE EXISTING UNIT AND ACCESSORIES TO AVOID ANY CONFLICT WITH NEW WALLS (SEE DWG M101 FOR NEW LOCATION). PROVIDE A REPORT TO THE CLIENT'S REPRESENTATIVE AND/OR EOR TO INFORM THE STATUS OF THE EXISTING UNIT AND ITS WORKING CONDITIONS PREVIOUS TO ANY DEMO WORK. IF CONTRACTOR FAIL TO PROVIDE REPORT, CONTRACTOR SHOULD BE RESPONSIBLE FOR ANY UNIT DAMAGED AFTER DEMO WORK HAS BEGUN.
3. EXISTING DUCTWORK TO REMAIN.
4. EXISTING FIRE DAMPER AND ACCESS DOOR TO REMAIN.
5. CONTRACTOR TO TAKE READINGS OF SA FLOW (CFM VALUE) PRIOR TO DEMOLITION WORK. PROVIDE PRE-CONSTRUCTION AIR BALANCING REPORT TO EOR.
6. EXISTING TOILET EXHAUST FAN , DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN.
7. EXISTING EA PLENUM, MOTORIZED DAMPER, BACK-DRAFT DAMPER AND OUTDOOR LOUVER TO REMAIN. MOTORIZED TO BE LEFT IN NORMALLY CLOSED POSITION.
8. REMOVED EXISTING CONCEALED DUCT ALONG WITH SIDEWALL AIR TERMINAL.
9. REMOVED EXISTING DUCT ALONG WITH CEILING AIR TERMINAL.
10. REMOVE EXISTING TRANSFER AIR DUCT/GRILLES.
11. EXISTING TRANSFER DUCT, FIRE DAMPER AND ACCESSORIES TO REMAIN.
12. EQUIPMENT SERVICE ACCESS SHALL BE MAINTAINED AT AT TIMES (BEFORE AND AFTER CONSTRUCTION).
13. EXISTING BMS CONTROL PANEL SHALL BE RELOCATED. VERIFY IN FIELD IF CONTROL PANEL CAN BE RELOCATED WITHOUT AFFECTING ITS PERFORMANCE. REPORT TO CLIENT'S REPRESENTATIVE AND EOR FIELD CONDITIONS FOR APPROVAL BEFORE ANY REMOVAL. PROVIDE TEMPORARY SUPPORT AND PROTECT PANEL AS REQUIRED DURING CONSTRUCTION. SEE PROPOSED NEW LOCATION ON DWG BM-101.
14. RELOCATE EXISTING THERMOSTAT TO NEW LOCATION SHOWN ON DWG. BM-101. EXTEND WIRING CONTROL TO ACHIEVE A COMPLETE INSTALLATION. PROTECT THERMOSTAT/SENSOR DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE.
15. REMOVE EXISTING GENERAL EXHAUST FAN GEF/1 AND ALL ASSOCIATED ACCESSORIES.
16. RELOCATE EXISTING THERMOSTAT TO NEW LOCATION SHOWN ON DWG. BM-101. EXTEND WIRING CONTROL TO ACHIEVE A COMPLETE INSTALLATION. PROTECT THERMOSTAT/SENSOR DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE.
17. REMOVE EXISTING FIRE DAMPERS ALONG WITH DUCTWORK AND ASSOCIATED ACCESSORIES.

CONTROL EXISTING DEVICES/WIRING PHASING DEMOLITION NOTES

1. DURING THE EXECUTION OF THE WORK, REQUIRED RELOCATION OF EXISTING EQUIPMENT AND SYSTEMS IN THE EXISTING AREAS WHERE NEW WORK AND CONNECTIONS ARE SCHEDULED TO BE MADE SHALL BE PERFORMED BY EACH CONTRACTOR AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE JOB CONDITIONS AND AS DETERMINED BY THE GC/CM IN CLOSE COOPERATION WITH THE ARCHITECT AND OWNER'S DESIGNATED REPRESENTATIVE TO FACILITATE THE INSTALLATION OF THE NEW SYSTEMS AND COMPLETION OF THIS CONTRACT. THE OWNER WILL REQUIRE THE CONTINUOUS OPERATION OF ALL EXISTING SYSTEMS WHILE DEMOLITION AND RELOCATION WORK OF NEW TIE-INS ARE BEING PERFORMED. OUTAGES REQUIRED FOR CONSTRUCTION PURPOSES SHALL BE SCHEDULED FOR THE SHORTEST PRACTICAL PERIODS OF TIME, IN COORDINATION WITH THE OWNER'S DESIGNATED REPRESENTATIVE FOR SPECIFIC, MUTUALLY AGREEABLE PERIODS OF TIME AFTER EACH OF WHICH THE INTERRUPTION SHALL CEASE AND SERVICE SHALL BE RESTORED. THIS PROCEDURE SHALL BE REPEATED TO SUIT THE OWNER'S WORKING SCHEDULE AS MANY TIMES AS REQUIRED UNTIL ALL WORK IS COMPLETED.
2. PRIOR TO ANY DEACTIVATION AND RELOCATION, CAPPING, VALVING, TIE-IN OR DEMOLITION WORK, CONSULT THE DRAWINGS AND ARRANGE A CONFERENCE WITH THE ARCHITECT AND THE OWNER'S REPRESENTATIVE IN THE FIELD TO INSPECT EACH OF THE ITEMS TO BE DEACTIVATED, REMOVED OR RELOCATED. CARE SHALL BE TAKEN TO PROTECT ALL EQUIPMENT DESIGNATED TO BE RELOCATED AND REUSED. GIVE NOTICE TO ALL PARTIES, WITH A MINIMUM OF (5) WORKING DAYS IN ADVANCE.
3. ALL DRAINING OF EXISTING SYSTEMS, FILLING AND VENTING REQUIRED TO REMOVE AND RELOCATE EXISTING PIPING SYSTEMS SHALL BE INCLUDED AND PROVIDED UNDER THIS CONTRACT AS REQUIRED TO PERFORM THE VARIOUS EQUIPMENT OR PIPING RELOCATIONS OR NEW TIE-INS.
4. EXCEPT AS OTHERWISE NOTED, ALL DEACTIVATION, SAFE CAPPING, VALVING, ETC., OF SYSTEMS DESIGNATED TO BE DEMOLISHED SHALL BE PROVIDED BY EACH TRADE, AS APPLICABLE, AND ALL DEMOLITION, REMOVAL AND DISPOSAL OF DEMOLISHED MATERIALS SHALL BE PERFORMED BY THE GC / CM. ALL EQUIPMENT SCHEDULED TO BE REMOVED SHALL BE INSPECTED BY THE OWNER, AND, IF HE DECIDES THAT SUCH EQUIPMENT IS TO BE SALVAGED, EACH CONTRACTOR SHALL DELIVER SAID EQUIPMENT TO AN AREA WITHIN THE SITE BOUNDARIES AS DETERMINED BY THE OWNER AND ARCHITECT.
5. THE PHASING OF THE WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE GC / CM CONSTRUCTION SCHEDULE. THE NEW SYSTEMS WILL BE INSTALLED AND COMPLETELY COMMISSIONED PRIOR TO OCCUPANCY. COORDINATE REQUIREMENTS FOR TEMPORARY HEAT OR REROUTING OF EXISTING SERVICES AS REQUIRED TO ACCOMPLISH THE CONSTRUCTION SCHEDULE.
6. FOR CONTROLS DEVICES & WIRING RELATED DEMOLITION SCOPE OF WORK, SEE KEY NOTES 2, 13,14 & 16 IN THIS DWG.



1 MECHANICAL - UPPER LEVEL PART PLAN DEMOLITION WORK
1/8" = 1' 0"



2 MECHANICAL - LOWER LEVEL PART PLAN DEMOLITION WORK
1/8" = 1' 0"

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291029-04 REHABILITATE NATURAL SCIENCES BUILDING - BOOKSTORE SURGE RENOVATION

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MECHANICAL - UPPER & LOWER LEVEL PART PLANS DEMOLITION WORK

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GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN:	AA, PE	DATE:	01/10/2025
CHECKED:	MM, PE	SCALE:	AS NOTED

DRAWING NO.:

DM101

HVAC DESIGN CRITERIA

COOLING & HEATING SYSTEM CAPACITY IS BASED ON THE FOLLOWING DESIGN CONDITIONS. (AS PER THE LATEST ASHRAE STANDARD 170)

INSIDE AMBIENT DESIGN PARAMETERS:		OUTSIDE AMBIENT DESIGN PARAMETERS:	
SUMMER:	72°F(DB)/55% RH	SUMMER:	95°F(DB)/75°F(WB)
WINTER:	70°F(DB)/30% RH	WINTER:	13.5°F(DB)

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE THE WORK SHOWN ON THESE DRAWINGS WITH ALL OTHER TRADES.
2. ALL WORK TO COMPLY WITH THE PROVISIONS OF THE:
   LOCAL BUILDING CODE
   LOCAL ENERGY CODE
   NFPA
   ASHRAE
3. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE AND/OR BUILDING.
4. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR THE REQUIRED CONSTRUCTION PERMIT(S), FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK. APPLICATION FOR CONSTRUCTION PERMITS SHALL BE PROCESSED THRU THE DOB.
5. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
6. PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
7. ADEQUATELY BRACE AND PROTECT ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, WRECKAGE, COLLAPSE, DISTORTIONS AND ALL ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
8. PATCH REPAIR ALL FLOORS, WALLS, CEILINGS, ETC. DAMAGED OR EXPOSED DUE TO WORK OR REMOVALS AND FINISH TO MATCH ADJOINING SURFACES.
9. WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON THE DRAWINGS IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHING OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL MANUFACTURED PRODUCTS ARE TO BE ENGINEER/ARCHITECT APPROVED. ALL PRODUCTS MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
10. FIRE STOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTION AS PER SPECIFICATIONS.
11. ADDITIONAL NOTES WHICH ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DRAWINGS.
12. NO DOB VIOLATIONS ARE BEING CORRECTED IN THIS APPLICATION.
13. THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR REQUIRED INSPECTIONS, PERMIT(S), FEES, LICENSE AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
14. ALL NEW EQUIPMENT SHALL BE SET OR MOUNTED ON A LEVEL BASE CAPABLE OF SUPPORTING AND DISTRIBUTING THE WEIGHT CONTAINED THEREON. ALL EQUIPMENT SHALL BE SECURED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NYS ENERGY CODE 2020 (IECC 2018)

TO THE BEST OF APPLICANT KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT PLANS AND APPLICATIONS ARE IN COMPLIANCE WITH THE NYS ENERGY CODE 2020 (BASED ON IECC 2018).

MECHANICAL DRAWING LIST

Dwg. No.	Drawing Title
M001	MECHANICAL - SYMBOLS, LEGENDS & NOTES
M002	MECHANICAL - EQUIPMENT SCHEDULES
DM101	MECHANICAL - 1ST & BASEMENT FLOOR PART PLANS DEMOLITION WORK
M101	MECHANICAL - 1ST & BASEMENT FLOOR PART PLANS NEW WORK
M401	MECHANICAL - AIR FLOW DIAGRAM
M501	MECHANICAL - DETAILS

MECHANICAL GENERAL NOTES

1. THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE MECHANICAL CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE MECHANICAL/ELECTRICAL/PLUMBING PLANS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
2. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK" OR "WORK" SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND LABOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED ON THE DESIGN DOCUMENTS.
4. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS RECOMMENDATIONS.
5. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
6. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE OWNER/ENGINEER OF ANY DISCREPANCIES PRIOR TO AWARDING OF BID.
7. COORDINATE HVAC SYSTEM INSTALLATION WITH EXISTING CONDITIONS. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND INVESTIGATE REQUIREMENTS FOR HVAC SYSTEM INSTALLATION. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8. ALL CHANGES MADE IN THE FIELD SHALL BE RECORDED ON AS-BUILT DRAWINGS, SHOP DRAWINGS, AND MAINTENANCE MANUALS. PROVIDE FINAL AS-BUILT CONDITIONS IN AUTOCAD FORMAT.
9. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
10. CONTRACTOR SHALL OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS PRIOR TO CONSTRUCTION, AND PAY ALL RELATED FEES. OWNER WILL HIRE AND PAY FOR EXPEDITOR FEES. ALL PERMIT FEES ARE BY CONTRACTOR.
11. ALL MATERIALS, EQUIPMENT AND INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE BUILDING AND MECHANICAL CODES, SMACNA, UL, MANUFACTURERS' RECOMMENDATIONS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
12. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
13. CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED BY MECHANICAL INSPECTOR AND/OR ARCHITECT /ENGINEER. CONTRACTOR SHALL NOTIFY A/E OF A SCHEDULED INSPECTION TIME WITHIN 72 HOURS.
GENERAL CONTRACTOR SHALL NOT CONCEAL WORK UNTIL APPROVED, REGARDLESS OF SCHEDULE.
14. REFER TO SPECIFICATIONS ON DRAWINGS, DETAILS AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION.
15. ALL EQUIPMENT, PIPING AND VALVES SHALL HAVE SPECIFIED IDENTIFICATION LABELS AND AS INDICATED.
16. CONTRACTOR AND HIS SUBCONTRACTORS SHALL WORK WITH A FULL SET OF LATEST MECHANICAL DRAWINGS. IT IS CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
18. EACH TRADE CONTRACTOR SHALL RECEIVE ALL DRAWINGS AND SPECIFICATION SECTIONS ISSUED AS PART OF THE OVERALL BID PACKAGE. ALL CONTRACTORS ARE TO RECEIVE, REVIEW, AND COORDINATE ALL OF THEIR WORK AS SHOWN OR REFERENCED ON THE OTHER TRADE DOCUMENTS. ALL WORK SHOWN OR REFERENCED ON THE OTHER TRADE DOCUMENTS SHALL BE INCLUDED AS PART OF THE OVERALL PROJECT SCOPE FOR THAT PARTICULAR DISCIPLINE AND TRADE.
19. SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
20. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
21. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
22. REVIEW ALL DISCIPLINES DRAWINGS INCLUDING ARCHITECTURAL AND STRUCTURAL, AND COORDINATE IN FIELD ALL WORK WITH OTHER TRADES AND WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ANY WORK. REPORT ALL CONFLICTS IMMEDIATELY TO ARCHITECT AND/OR ENGINEER.
23. VERIFY THE ACTUAL LOCATIONS AND EXACT DIMENSIONS OF ALL EQUIPMENT, CASEWORK, DEVICES, FIXTURES, SWITCHES, SENSORS, ETC. DURING FIELD VISITS AND PRIOR TO PERFORMING ANY ROUGH-IN WORK FOR THE UTILITIES AND DUCTWORK. REPORT DISCREPANCIES IMMEDIATELY TO ARCHITECT AND/OR ENGINEER.
24. ALL ADJUSTABLE THERMOSTATS AND TEMPERATURE SENSORS SHALL BE MOUNTED 46" ABOVE FINISHED FLOOR.
25. COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.
26. COORDINATE THE LOCATIONS OF ALL EQUIPMENT AND REGISTERS WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO PERFORMING AND ROUGH-IN WORK FOR THE UTILITIES.
27. SCHEDULE ALL WORK, CUTTING AND BUILDING SERVICE INTERRUPTIONS WITH BUILDING OWNER AND CONSTRUCTION MANAGER PRIOR TO COMMENCING WITH THE WORK.
28. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
29. PROVIDE ALL ROOFING OPENINGS AND FLASHINGS REQUIRED FOR THE INSTALLATION OF ROOF MOUNTED EQUIPMENT.
30. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. ALL WIRING SHALL BE NON COMBUSTIBLE OR SHALL BE ENCLOSED IN METAL CONDUIT OR PROTECTED BY A SHEET METAL COVER SECURED WITH METAL FASTENERS.
31. INSULATION, FITTINGS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
32. PROVIDE ACCESS PANELS AS REQUIRED FOR ALL VALVES, DAMPERS, CONTROLS, OR OTHER EQUIPMENT.
33. ALL ROOFING WORK SHALL BE PERFORMED BY AUTHORIZED ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.
34. SUPPORT ALL EQUIPMENT, PIPING AND DUCTWORK FROM BUILDING STRUCTURE TO PROVIDE A VIBRATION FREE INSTALLATION. OTHERWISE ADHERE TO THE DETAILS IN THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT AND/OR STRUCTURAL ENGINEER OF ALL WEIGHTS AND METHODS OF SUPPORT. PROVIDE DETAILS TO COORDINATE CONCRETE PADS AND STEEL PLATFORMS REQUIRED FOR MECHANICAL WORK.
35. CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
36. CONTRACTOR SHALL PROTECT ALL SURFACES DURING RIGGING AND CONSTRUCTION INCLUDING BUT NOT LIMITED TO THE LOBBY AND HALLWAY FLOORS AND WALLS. CONTRACTOR SHALL RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
37. REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
38. PROVIDE ACCESS PANELS IN NON LAY-IN-CEILINGS FOR SERVICE AND MAINTENANCE OF ALL CONCEALED EQUIPMENT AND DEVICES, SUCH AS HEAT PUMPS, ELECTRIC DUCT HEATERS, COILS, SMOKE DETECTORS, BALANCING DAMPERS AND FIRE DAMPERS.
39. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
40. COORDINATE LOCATION OF NEW DUCTWORK, AIR DEVICES AND EQUIPMENT WITH LIGHT FIXTURES, SPRINKLER PIPING AND HYDRONIC PIPING.
41. SHEETMETAL FITTINGS SHOWN SHALL BE PROVIDED. NO SUBSTITUTES WILL BE ALLOWED WITHOUT PRIOR CONSENT FROM ENGINEER.
42. PROVIDE BALANCING DAMPERS IN ALL DUCT BRANCHES TO AIR DEVICES.
43. EQUIPMENT INDICATED ON THE DRAWINGS, TOGETHER WITH ITS BASE AND /OR SUPPORT, DUCTWORK CONNECTIONS, SERVICE CLEARANCES, WALL, FLOOR AND ROOF PENETRATIONS, AND ELECTRICAL REQUIREMENTS IS BASED ON THE MODEL INDICATED IN THE SCHEDULES. IF CONTRACTOR FURNISHES AN EQUIVALENT SUBSTITUTION, THE CONTRACTOR SHALL MAKE THE REQUIRED MODIFICATIONS IN THE WORK WITHOUT THE CHANGE IN CONTRACT AMOUNT.
44. DUCTWORK SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR DUCTWORK SHALL NOT COVER OR LIMIT ACCESS TO EXISTING J-BOXES.
45. INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES.
46. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT AND PIPE TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
47. PROVIDE VIBRATION ISOLATION FOR ROTATING, REVOLVING OR RECIPROCATING EQUIPMENT, INCLUDING DUCTWORK CONNECTIONS TO THIS EQUIPMENT TO PREVENT TRANSMISSION OF NOISE AND VIBRATION TO BUILDING STRUCTURE AND OCCUPIED SPACES. VIBRATION ISOLATION DEVICES SHALL INCLUDE SPRING VIBRATION ISOLATORS, NEOPRENE PADDING AND DUCT /PIPE FLEXIBLE CONNECTIONS.
48. PROVIDE FLEXIBLE CONNECTIONS AT ALL FANS INLET AND OUTLET CONNECTIONS.
49. EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM DUST, DIRT AND DAMAGE UNTIL FINAL ACCEPTANCE CLOSE ALL DUCT AND EQUIPMENT OPENINGS DURING CONSTRUCTION WITH SUITABLE PROTECTIVE COVERING BEFORE, DURING AND FOLLOWING INSTALLATION.
50. REMOVE TEMPORARY AIR FILTERS AND PROVIDE NEW FILTERS IN ALL AIR CONDITIONING EQUIPMENT WITHIN THE SCOPE OF WORK UPON COMPLETION OF CONSTRUCTION AND BEFORE BALANCING.
51. CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND ELECTRICAL SPECIFICATIONS.
52. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED.
53. PROVIDE SELECTIVE CEILING DEMOLITION TO PLACE NEW DUCTWORK AND DIFFUSERS. REPLACE DAMAGED CEILING TILES AND GRIDS RESULTING FROM DEMOLITION. NEW CEILING TILES SHALL MATCH WITH EXISTING.
54. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND COORDINATION WITH ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO STRUCTURAL, LIGHTING, ELECTRICAL, PLUMBING, AND OTHER EXISTING AND NEW WORK. VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO PURCHASING EQUIPMENT. ALL DISCREPANCIES OR POTENTIAL PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING. PROVIDE ADDITIONAL MATERIALS AND LABOR TO RELOCATE OR REPLACE MECHANICAL WORK AS REQUIRED TO ALLOW SPACE FOR THE WORK OF ALL TRADES.
55. THE WORK INCLUDES CONNECTION TO AN EXISTING MECHANICAL, ELECTRICAL, FIRE ALARM, AND CONTROL SYSTEMS ON THE PROJECT. CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ANY LABOR AND MATERIALS NECESSARY TO UNCOVER, TRACE, TEST, FIELD VERIFY, AND MEASURE ANY EXISTING EQUIPMENT OR SYSTEMS THAT ARE AFFECTED BY THE WORK UNDER THIS CONTRACT.
56. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS.
57. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS RELATED TO REMOVING AND REPLACING ALL CEILINGS AS REQUIRED FOR THE MECHANICAL AND ELECTRICAL WORK ON THIS PROJECT.
58. THE CONTRACTOR SHALL INCLUDE IN THE BID THE RELOCATION OF ANY EXISTING JUNCTION BOXES (OF ANY KIND) THAT WILL BE INACCESSIBLE DUE TO THE WORK IN THIS PROJECT.
59. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.
60. THE CONTRACTOR SHALL INCLUDE IN THEIR BID COSTS REQUIRED TO RELOCATE EXISTING CONDUITS OF ANY KIND IN ORDER TO INSTALL NEW EQUIPMENT, DUCTWORK, AND PIPING. .
61. SEISMIC REQUIREMENTS AS SPECIFICATIONS.

DUCT SYMBOLS

- NEW WORK
- RETURN DUCTWORK
- REMOVE EXISTING DUCTWORK
- ACCESS DOOR (SIZES VARY AS SHOWN ON DRAWINGS)
- INDICATES SUPPLY AIR
- INDICATES EXHAUST AIR
- FD — FIRE DAMPER
- SD — COMBINATION FIRE-SMOKE DAMPER
- S — SMOKE DAMPER
- VD — VOLUME DAMPER AND ACCESS DOOR
- MD — MOTORIZED DAMPER AND ACCESS DOOR
- DOOR UNDERCUT
- POINT OF DISCONNECTION
- POINT OF NEW CONNECTION

CONTROL SYMBOLS

- CONTROL VALVE
- PNEUMATIC THERMOSTAT
- EP — ELECTRO-PNEUMATIC SWITCH
- SW — MANUAL SWITCH
- T — DIGITAL THERMOSTAT
- CO_2 — CARBON DIOXIDE SENSOR
- SD — DUCT SMOKE DETECTOR

ABBREVIATIONS

A.D.- ACCESS DOOR
A.A.D. - AUTOMATIC AIR OPERATED LOUVER DAMPER
C.F.M. - CUBIC FEET PER MINUTE
C.C. - COOLING COIL
C.O.D. - CLEAN OUT DOOR
D.N. - DRAIN
(E) - EXISTING
EA. - EXHAUST AIR (CFM)
EX. - EXHAUST
F.D. - FIRE DAMPER
GR. - GRILLE (WITH VOLUME DAMPER)
M.A.D. - MANUAL AIR OPERATED LOUVER DAMPER
MUA - MAKE-UP AIR (CFM)
O.A.I. - OUTSIDE AIR INTAKE (FRESH AIR INLET)
RA. - RETURN AIR (CFM)
SA. - SUPPLY AIR (CFM)
TA. - TRANSFER AIR (CFM)
VENT. - VENTILATION
WMS - WIRE MESH SCREEN

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MECHANICAL - SYMBOLS, LEGEND & NOTES

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GOODY CLANCY PROJECT NUMBER: 24006
FILE NAME:
DRAWN: AA, PE | DATE: 01/10/2025
CHECKED: MM, PE | SCALE: N.T.S.
DRAWING NO.:

M001

CEILING MOUNTED SUPPLY AIR DIFFUSERS SCHEDULE

TAG	CFM RANGE	NECK SIZE INCHES	MAX. DUCT VELOCITY FPM	NOMINAL LOUVERED AREA SIZE W X H INCHES	MAX. NOISE RATING. NC	MANUFACTURER	MODEL NO.	LOCATION	REMARKS
CD-1	0-100	6ø	500	24X24	<20	ANEMOSTAT	EPL	CEILING MOUNTED	SEE NOTES 1 TO 3
CD-2	101-175	8ø	500	24X24	<20	ANEMOSTAT	EPL	CEILING MOUNTED	SEE NOTES 1 TO 3
CD-3	0-120	6ø	600	12X12	20	ANEMOSTAT	EPL	CEILING MOUNTED	SEE NOTES 1 TO 3

NOTES:

1. ALL DIFFUSERS SHALL BE PROVIDED WITH BACKPAN FOR FULL LOUVERED FACE APPEARANCE; NO EXCEPTIONS.
2. CONTRACTOR SHALL COORDINATE DIFFUSER'S FRAME TYPE WITH APPROVED CEILING TYPE.
3. CONTRACTOR SHALL COORDINATE DIFFUSER'S COLOR WITH ARCHITECT.

CEILING MOUNTED RETURN/EXHAUST AIR GRILLES SCHEDULE

TAG	CFM RANGE	NOMINAL SIZE WxH INCHES	MAX DUCT VELOCITY FPM	CORE AREA (SQ.FT)	MAX NOISE RAITING NC	MANUFACTURER	MODEL NO.	REMARKS
CR-1	0-150	8x8	300	0.37	<20	TITUS	3FL-45	SEE NOTES 1 TO 3
CR-2	151-264	12x12	300	0.88	<20	TITUS	3FL-45	
CR-3	0-1500	24x24	400	3.75	32	TITUS	3FL-45	

NOTES
1. CONTRACTOR SHALL COORDINATE REGISTER'S COLOR WITH ARCHITECT.
2. FOR SHEET ROCK APPLICATION PROVIDE PLASTER FRAME.
3. CONTRACTOR SHALL COORDINATE REGISTER'S BORDER TYPE WITH APPROVED CEILING TYPE.

WALL MOUNTED RETURN AIR GRILLES & REGISTERS SCHEDULE

TAG	CFM RANGE	NOMINAL SIZE W X H INCHES	MAXIMUM DUCT VELOCITY FPM	CORE AREA (SQ.FT)	MAX. NOISE RATING. NC	MANUFACTURER	MODEL NO.	REMARKS
TG-1	0-148	8X8	400	0.37	22	TITUS	3FL-45	SEE NOTES 1 TO 3
TG-2	149-228	12X8	400	0.57	24	TITUS	3FL-45	SEE NOTES 1 TO 3
TG-3	229-728	24X12	400	1.82	29	TITUS	3FL-45	SEE NOTES 1 TO 3

NOTES:

1. CONTRACTOR SHALL COORDINATE GRILLE'S COLOR WITH ARCHITECT.
2. CONTRACTOR SHALL COORDINATE GRILLE'S FRAME TYPE WITH APPROVED CEILING TYPE.
3. GRILLE LAYOUT IS FOR CONTINUOUS RUN (APPEARANCE), PROVIDE GRILLES WITH CONCEALED KEY-WAYS AND ALIGNMENT STRIPS FOR EXACT ALIGNMENT AND CLEAN, NEAT APPEARANCE.

FAN SCHEDULE

			EXTERNAL			OPER.	MOTOR									TOTAL WEIGHT	
TAG	QTY.	CFM	SP (in. wg)	FRPM	MCA	BHP	WATTS	DBA	SONES	DRIVE TYPE	VOLTS	PHASE	HERTZ	MANUFACTURER	MODEL	LBS	REMARKS
MDFX-1	1	100	0.125	650	0.3	0.04	30		2.5	DIRECT	115	1	60 CYCLE	GREENHECK	SP-B110ES	10	SEE NOTES 1, 2, 3, 4 & 6
MDFX-2	1	100	0.125	650	0.3	0.04	30	-	2.5	DIRECT	115	1	60 CYCLE	GREENHECK	SP-B110ES	10	SEE NOTES 1, 2, 3, 5 & 6

NOTES: -

1. REFER TO SPECIFICATIONS FOR ADDITIONAL FAN REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR VIBRATION ISOLATION.
3. ALL FANS SHALL BE PROVIDED WITH DISCONNECT SWITCH.
4. INTERLOCK MDFX-1 WITH THERMOSTAT. THERMOSTAT SETPOINT TO 80F (ADJUSTABLE).
5. INTERLOCK MDFX-2 WITH THERMOSTAT. THERMOSTAT SETPOINT TO 80F (ADJUSTABLE).
6. PROVIDE OPERATION AND MAINTENANCE MANUALS AS PER 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (2018 IECC AMENDED).

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (2018 IECC AMENDED).

TO THE BEST OF APPLICANT KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT PLANS AND APPLICATIONS ARE IN COMPLIANCE WITH THE NYS ENERGY CODE 2020 (BASED ON IECC 2018).

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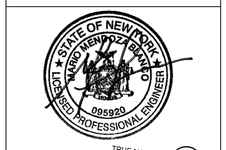
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MECHANICAL - EQUIPMENT SCHEDULES

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GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN: AA, PE | DATE: 01/10/2025

CHECKED: MM, PE | SCALE: N.T.S.

DRAWING NO.:

M002

NEW WORK NOTES

1. PROVIDE COMPLETE AND PROPERLY FUNCTIONING HVAC SYSTEM FOR THIS PROJECT. CONTRACTOR SHALL VISIT THE PROJECT SITE, EXAMINE THESE PLANS AND ALL EXISTING DRAWINGS RELATING TO THE AREA OF WORK AND REPORT ANY DISCREPANCIES OR OMISSIONS IN THIS PLAN SET TO THE ENGINEER FOR A RESOLUTION AND CLARIFICATION PRIOR TO SUBMISSION FOR BIDS.
2. RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENT FOR THESE ITEMS.
3. ALL DUCT DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS. ACCOUNT FOR INSULATION THICKNESS FOR COORDINATION WITH OTHER TRADES.
4. PROVIDE ALL 90-DEGREE SQUARE ELBOW WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
5. LOCATE ALL MECHANICAL EQUIPMENT (RTU'S, RETURN/EXHAUST FANS, DUCTWORK) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.
6. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS , FANS, AND OTHER EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
7. CONTROL WIRING OF SMOKE DETECTORS IS BY THE AWARDED GENERAL CONTRACTOR.
8. SAFETY DEVICES SHALL BE HARDWIRED TO THE FAN STARTER CIRCUIT, IN ADDITION TO THE DDC SYSTEM.
9. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF AN EXISTING DUCTWORK OR STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
10. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
11. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, VOLUME DAMPERS, COILS AND OTHER ITEMS LOCATED IN THE DUCTWORK THAT REQUIRE SERVICE AND/ OR INSPECTION.
12. PROVIDE ACCESS DOORS IN DUCTWORK FOR THE OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, AND MECHANICAL EQUIPMENT.
13. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS.
14. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
15. SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER REQUIREMENTS.
16. DIVISION 26 FIRE ALARM CONTRACTOR SHALL FURNISH FIRE ALARM COMPLIANT SMOKE DETECTOR TO THE SHEET METAL CONTRACTOR FOR FIELD DUCTWORK INSTALLATION, AS APPLICABLE. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL SIGNAL AND CONTROL POWER WIRING.
17. SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH NOT LESS THAN R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH NOT LESS THAN R-8 INSULATION IN CLIMATE ZONES 1 THROUGH 4.
18. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION DOCUMENTS TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY. THOSE DOCUMENTS INCLUDE: DRAWINGS, MANUALS, AND SYSTEM BALANCING REPORTS.
19. HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS. AIR AND WATER FLOW RATES SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN TOLERANCES PROVIDED IN PRODUCT SPECIFICATIONS. TEST AND BALANCING ACTIVITIES SHALL INCLUDE AIR SYSTEM BALANCING. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COPY OF TESTING AND BALANCING OF AIR REPORT.
20. DUCT RUNNING THROUGH FIRE-RATED CORRIDORS WALLS SHALL BE AT LEAST 0.019 IN THICK.

(#) KEY NOTES

1. PROVIDE SEAL AIR TIGHT DUCT END CAP.
2. PROVIDE NEW SA DUCTWORK FROM NEW AIR TERMINALS TO EXISTING MAIN DUCTS. PROVIDE SEAL AIR TIGHT CONNECTIONS.
3. RE-LOCATE EXISTING BMS CONTROL PANEL. EXTEND CONTROL WIRING AS REQUIRED TO ACHIEVE FULL CONTROL OF EXISTING UNITS. RELOCATION SHALL BE PERFORMED ONLY AFTER CLIENTS' REPRESENTATIVE AND EOR APPROVAL.
4. PROVIDE NEW RA DUCTWORK BETWEEN CEILING RETURN GRILLE AND TRANSFER GRILLE ABOVE CEILING GRID. RA DUCT SIZE TO MATCH TRANSFER GRILLE SIZE. SEE DETAIL ON DWG M501.
5. PROVIDE THERMOSTAT 80°F SET POINT (ADJUSTABLE). INTERLOCK MDFX WITH THERMOSTAT.
6. COORDINATE LOCATION AND INSTALLATION OF AIR TERMINALS WITH RF HVAC WAVEGUIDE, RF ENCLOSURE LAYOUT AND RF SHIELDING CONSTRUCTION GUIDELINES FOR HVAC. CONNECTIONS MUST BE MADE WITH FLEXIBLE DUCT. SYSTEMS DESIGNED TO BE CONNECTED TO A SOUND BOOTH SHOULD BE DESIGNED FOR AN NC 30-35 ENVIRONMENT. PROVIDE 6" COLLAR CONNECTION TO SUPPLY SILENCER ABOVE RF ENCLOSURE.
7. RE-LOCATE EXISTING AHU AND ASSOCIATED ACCESSORIES AND EXTEND CONTROL WIRING FROM THERMOSTAT. PROVIDE NEW DUCTWORK TO MATCH EXISTING SIZE FROM AHU TO EXISTING DUCTWORK (ALL DUCTWORK CONNECTIONS TO BE AIR SEAL TIGHT). PROVIDE FLEXIBLE CONNECTIONS BETWEEN NEW DUCTWORK AND EXISTING AHU. PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION. RELOCATION SHALL BE PERFORMED ONLY AFTER CLIENTS' REPRESENTATIVE AND EOR APPROVAL.
8. PROVIDE A 32X16 WALL PENETRATION FOR ACCESS TO EXISTING AHU. PROVIDE FIRE DAMPER AND SLEEVE TO MATCH OPENING SIZE.
9. PROVIDE SA DUCTWORK FROM EXISTING AHU TO MAIN DUCTS. PROVIDE SEAL AIR TIGHT CONNECTIONS.
10. PROVIDE NEW DUCT WITH FIRE DAMPER AND ACCESS DOOR. PROVIDE SEAL AIR TIGHT CONNECTIONS. SEE DETAILS FOR FIRE DAMPER AND ACCESS DOOR ON DWG M501.

AIR BALANCING NOTES

1- EXISTING PRE-CONSTRUCTION AIR BALANCING REPORT SHALL BE PROVIDED PREVIOUSLY TO ANY MODIFICATION TO THE EXISTING DUCTWORK SYSTEM.

2- BALANCE NEW AND EXISTING AIR TERMINALS WITH FLOW AIR CAPACITIES SHOWN ON PLAN.

CONTROL DEVICES/WIRING NEW WORK NOTES & PECIFICATIONS

1. THE AUTOMATED TEMPERATURE CONTROL (ATC) CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK WIRING FOR ALL SYSTEMS PROVIDED UNDER THE HVAC CONTRACTS.
2. ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT AND IN ACCORDANCE WITH THE RESPECTIVE EQUIPMENT MANUFACTURER'S REQUIREMENTS, AND ALL CONNECTIONS SHALL BE PROVIDED BY THE ATC CONTRACTOR. ALL CONDUIT AND WIRING PROVIDED BY THESE CONTRACTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 26 OF THE SPECIFICATIONS.
3. PROVIDE BACNET PROGRAMMABLE THERMOSTATS AS FOLOOWS:
   a. 7-DAY PROGRAMMABLE THERMOSTATS SHALL BE USED IN ALL BUILDING AREAS7-DAY PROGRAMMABLE THERMOSTATS SHALL HAVE A LOCAL DISPLAY AND ALLOW FOR 7-DAY SCHEDULE CONFIGURATION WITH LOCAL BUTTONS.
   b. 7-DAY PROGRAMMABLE THERMOSTAT SHALL PROVIDE A 7-DAY PROGRAMMING CLOCK, UP TO THREE HEAT OR COOL OUTPUTS, FAN OUTPUT, ALLOW REMOTE TEMPERATURE SENSOR INPUT AND PROVIDE A DISPLAY IN DEGREE F.
   c. THERMOSTAT SHALL BE POWERED FROM 24 VAC.
   d. THERMOSTAT SHALL INCORPORATE BACNET STANDARD PROFILES.
   e. ACCEPTABLE MANUFACTURERS INCLUDE DISTECH EC-STAT, SCHNEIDER ELECTRIC, HONEYWELL, JOHNSON CONTROLS, AND VICONICS.
4. TEMPERATURE SENSORS AND THERMOSTATS SHALL REQUIRE NO FIELD CALIBRATIONS.
5. TEMPERATURE SENSOR AND THERMOSTATS ASSEMBLIES SHALL BE READILY ACCESSIBLE AND ADAPTABLE TO EACH TYPE OF APPLICATION IN SUCH MANNER AS TO ALLOW FOR QUICK, EASY REPLACEMENT AND SERVICING WITHOUT SPECIAL TOOLS OR SKILLS.
6. FOR CONTROLS DEVICES & WIRING RELATED NEW SCOPE OF WORK, SEE KEY NOTES 3, 5 & 7 IN THIS DWG.

(FD) FIRE DAMPER NOTES

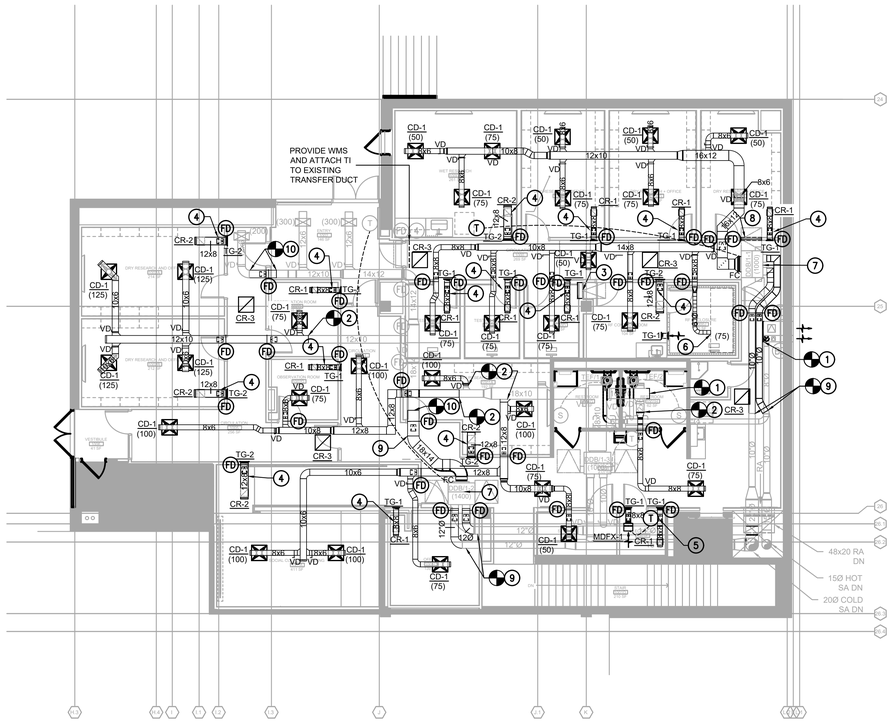
1- PROVIDE NEW FIRE DAMPER WITH ACCESS DOOR IN ALL LOCATIONS SHOWN IN THIS PLAN.

2- FOR FIRE DAMPER AND ACCESS DOOR DETAILS, REFER TO DETAILS SHOWN ON DWG. M501

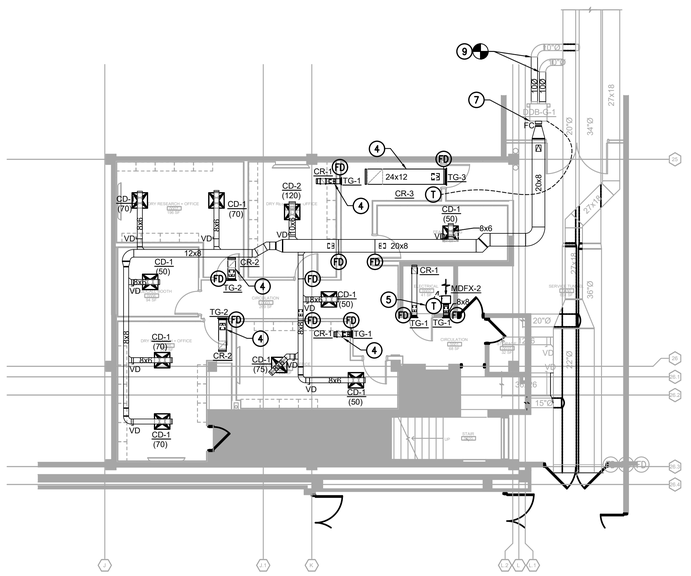
SEQUENCE OF OPERATIONS:

1- EXISTING DUAL DUCT BOX TERMINALS (SEQUENCE OF OPERATION BASED ON ORIGINAL DESIGN INTENT)
   a. THE DUAL DUCT BOX SHALL SEQUENCE AS CONSTANT VOLUME DISCHARGE & BLENDING SYSTEM . IT SHALL MODULATE ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES WITH LOCAL OVERRIDE OPTION PER ZONE.
      OCCUPIED MODE: THE UNIT SHALL MAINTAIN
      - A 72°F (ADJ.) COOLING SETPOINT
      - A 70°F (ADJ.) HEATING SETPOINT

      UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
      - A 85°F (ADJ.) COOLING SETPOINT.
      - A 65°F (ADJ.) HEATING SETPOINT.
2. EXHAUST FAN:
   a. THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE THERMOSTAT AND SHALL OPERATE ENABLED TO MAINTAIN A 80°F (ADJ.) SETPOINT. UPON CALL TO START, THE EXHAUST FAN MOTORIZED SHALL BE ENERGIZED AND START OPERATION.



1 MECHANICAL - UPPER LEVEL PART PLAN NEW WORK
1/8" = 1' 0"



2 MECHANICAL - LOWER LEVEL PART PLAN NEW WORK
1/8" = 1' 0"

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MECHANICAL - UPPER & LOWER LEVEL PART PLANS NEW WORK

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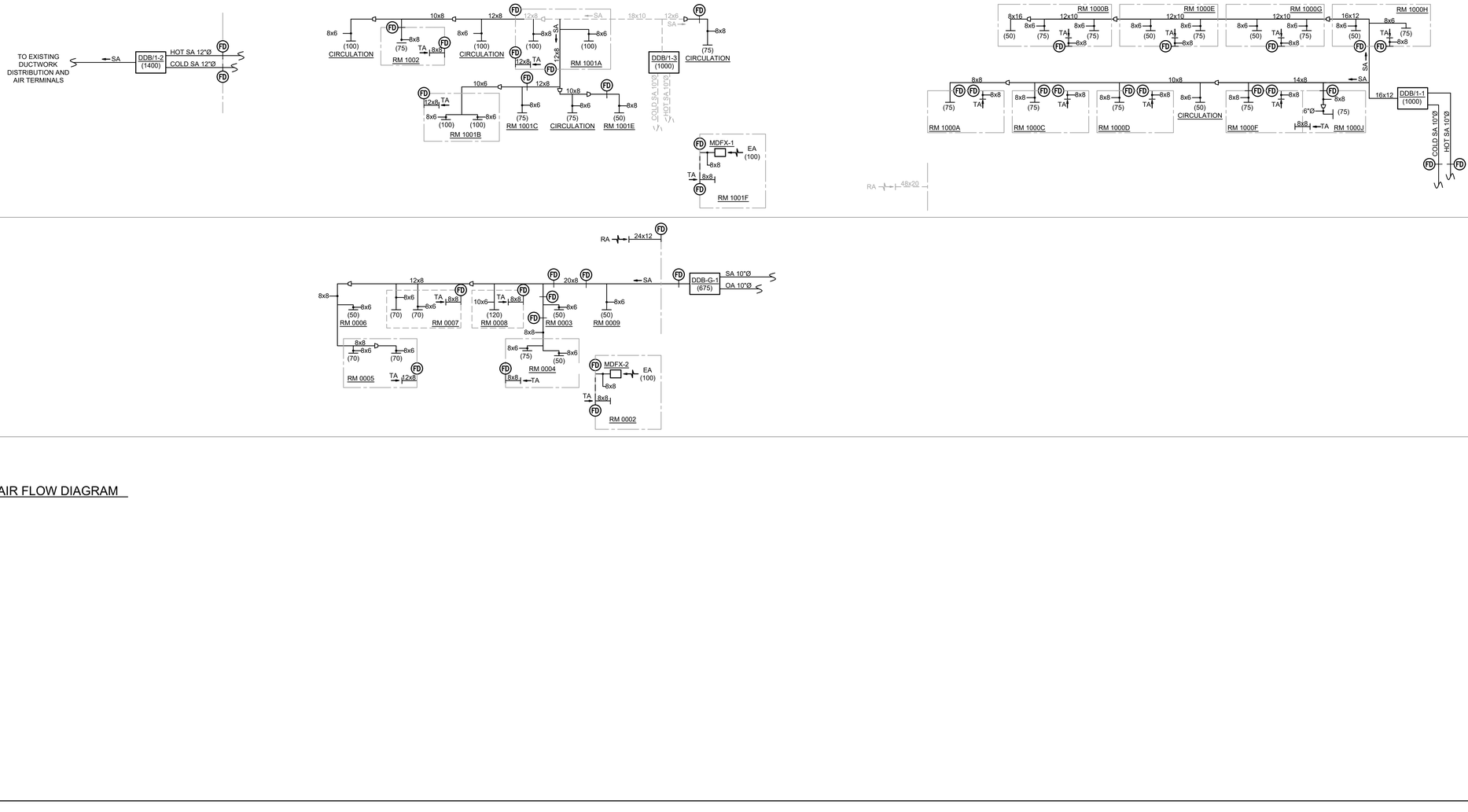
GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN: AA, PE	DATE: 01/10/2025
CHECKED: MM, PE	SCALE: AS NOTED

DRAWING NO.:

M101



UPPER LEVEL

LOWER LEVEL

1 MECHANICAL - AIR FLOW DIAGRAM
N.T.S.

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MECHANICAL - AIR FLOW DIAGRAM

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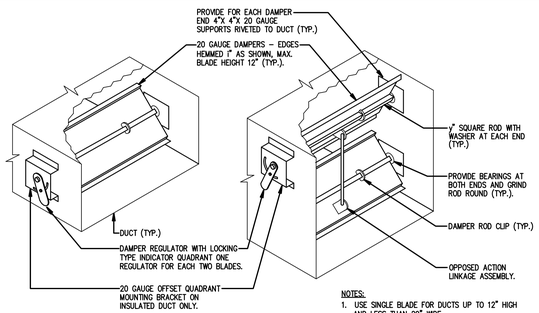
GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN: AA, PE	DATE: 01/10/2025
CHECKED: MM, PE	SCALE: N.T.S.

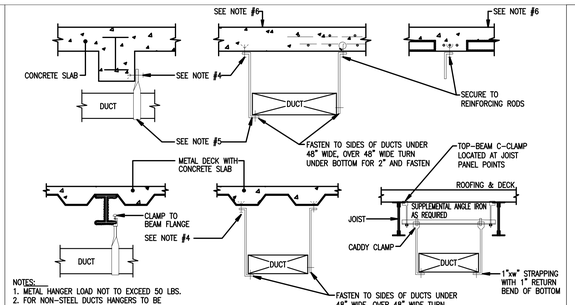
DRAWING NO.:

M401



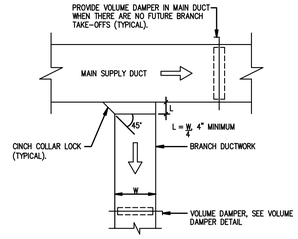
NOTES:
1. USE SINGLE BLADE FOR DUCTS UP TO 12" HIGH AND LESS THAN 29" WIDE.
2. USE MULTIPLE BLADES FOR DUCTS GREATER THAN OR EQUAL TO 29" AND/OR OVER 12" HIGH.

1. LOW PRESSURE BALANCING DAMPER
NOT TO SCALE



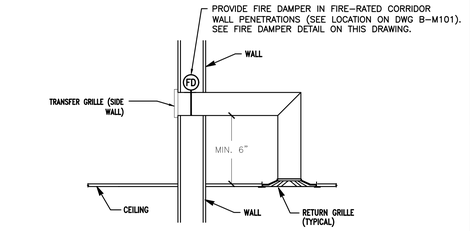
NOTES:
1. METAL HANGER LOAD NOT TO EXCEED 50 LBS.
2. FOR NON-STEEL DUCTS HANGERS TO BE ISOLATED TO PREVENT GALVANIC ACTION.
3. HANGERS SHALL BE SAME MATERIALS AS DUCTWORK BEING SUPPORT.
4. EXPANSION BOLT MINIMUM SIZE ¼" (B.S.&A. FILE #390-58-SM OR #480-64-SM OR #481-64-SM) FOR STONE CONCRETE ONLY.
5. w" x 1" GALVANIZED IRON HANGERS 8'-0" ON ON CENTER FOR DUCTS 4 SQ. FT. AND UNDER, 4'-0"ON CENTER FOR DUCTS OVER 4 SQ. FT. IN AREA.
6. IN CINDER CONCRETE SLABS OR IN REPUBLIC ARCH. USE APPROVE SCISSOR TYPE HANGER HOOK (B.S.&A. FILE #A-61-63 SM).

2. TYPICAL DUCT HANGING DETAILS
NOT TO SCALE



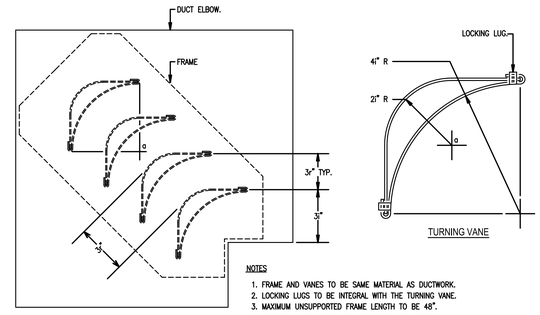
NOTES:
1. SEE PLANS FOR DUCT SIZES.

3. TYPICAL RECTANGULAR SUPPLY DUCTWORK -BRANCH DUCT CONNECTIONS
NOT TO SCALE



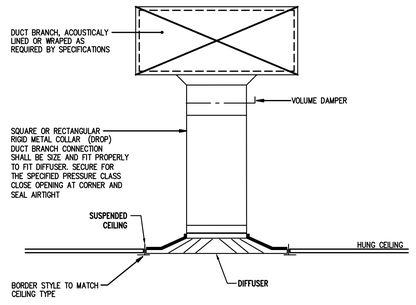
NOTES:
- TYPICAL IN TRANSFER DUCT BETWEEN INTERIOR SPACE AND CORRIDOR
- DUCT SIZE TO MATCH TRANSFER GRILLE SIZE. SEE AIR TERMINAL SCHEDULES ON DWG. M002.
- PROVIDE FIRE DAMPER AS SHOWN ON PLAN M101.
- FIRE DAMPER TO MATCH DUCT SIZE AS PER NOTE ABOVE.

4 TRANSFER DUCT DETAIL
NOT TO SCALE

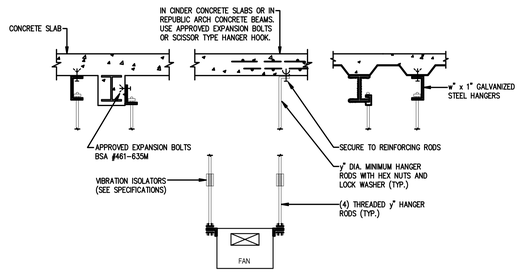


NOTES
1. FRAME AND VANES TO BE SAME MATERIAL AS DUCTWORK.
2. LOCKING LUGS TO BE INTEGRAL WITH THE TURNING VANE.
3. MAXIMUM UNSUPPORTED FRAME LENGTH TO BE 48".
4. FRAMES TO BE BOLTED OR RIVETED TO THE ELBOW.
5. VANES AND FRAMES TO BE SAME GAUGE AS THE ELBOW. (MINIMUM 20 GAUGE)
6. SQUARE ELBOWS ARE TO BE USED ONLY WHEN SPECIFICALLY INDICATED ON THE DESIGN DRAWINGS.

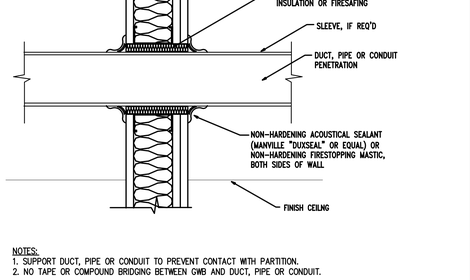
5. MITERED ELBOWS WITH DOUBLE THICKNESS TURNING VANES
NOT TO SCALE



6. TYPICAL RIGID DIFFUSER CONNECTION TO DUCTWORK
NOT TO SCALE

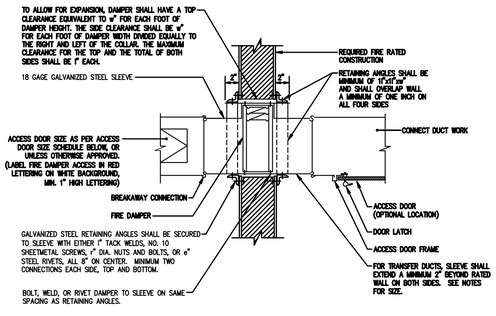


7. INLINE CABINET FAN HANGING SUPPORT DETAIL
NOT TO SCALE



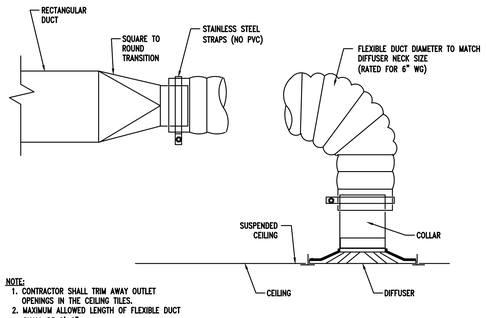
NOTES:
1. SUPPORT DUCT, PIPE OR CONDUIT TO PREVENT CONTACT WITH PARTITION.
2. NO TAPE OR COMPOUND BRIDGING BETWEEN GWB AND DUCT, PIPE OR CONDUIT.

8. PENETRATION OF GWB PARTITION
NOT TO SCALE



NOTES:
1. DAMPERS SHALL BE CONSTRUCTED, TESTED, LABELED, AND INSTALLED IN ACCORDANCE WITH UL 555, UL 555-S, NFPA 90A, NFPA 92A.
2. LEAKAGE RATINGS – CLASS II.
3. ALL FIRE DAMPERS SHALL BE RATED TO MAINTAIN THE RATING OF THE FIRE SEPARATION. THE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED INSTRUCTIONS.
4. FACTORY SLEEVE TO BE 24" LENGTH UNLESS OTHERWISE SPECIFIED.
5. ALL DUCT-SLEEVE CONNECTIONS SHALL COMPLY WITH UL 555, ASHRAE & SMACNA.
6. CONNECTIONS BETWEEN SLEEVE AND DUCTWORK SHALL BE BREAKAWAY TYPE SUCH AS "S" SLIP, CRIMP, OR OTHER SLIP TYPE IN ACCORDANCE WITH UL 555.
7. WHERE THE HUNG CEILING DOES NOT HAVE REMOVABLE TILES AN ACCESS DOOR (FIRE RATED WHERE REQUIRED) SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED IN CEILING NEAR LOCATION OF FIRE DAMPER.
8. ALL DUCT ACCESS DOORS SHALL BE LOCATED SO THAT THERE WILL NOT BE ANY INTERFERANCES FOR MAINTENANCE AND INSPECTION OF DAMPER.
9. CONTRACTOR SHALL INSTALL FIRE DAMPERS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

9. TYPE "B" FIRE DAMPER DETAIL AND NOTES
NOT TO SCALE



NOTE:
1. CONTRACTOR SHALL TRIM AWAY OUTLET OPENINGS IN THE CEILING TILES.
2. MAXIMUM ALLOWED LENGTH OF FLEXIBLE DUCT SHALL BE 2'-0".
3. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.

10. FLEXIBLE DUCT CONNECTION TO CEILING DIFFUSER
NOT TO SCALE

ACCESS DOOR SIZES

DUCT HEIGHT \ DUCT WIDTH	8	10	12	14	16	20	24	28	32	36	40	44	48	52	56	58	62	66
8	10X6	10X8	10X8	10X8	10X8	10X8	10X8	12X10	12X10									
10		10X8	10X8	10X8	10X8	10X8	10X8	12X12	12X12	12X12	14X12							
12			12X10	12X10	12X10	12X10	12X10	14X12	14X12	14X12	14X14	14X14	14X14					
14				12X12	12X12	12X12	12X12	14X12	14X12	14X12	14X14	14X14	14X14	16X14	16X14			
16					14X12	14X18	14X12	14X12	14X12	14X12	14X14	14X14	14X14	16X14	16X14	20X14	20X14	
20						14X12	14X12	14X12	14X12	14X12	16X14	16X14	16X14	16X14	16X14	20X14	20X14	20X14
24							14X14	14X12	14X14	14X14	16X16	16X16	16X16	18X16	18X16	20X18	20X18	20X18

11. ACCESS DOOR SIZE SCHEDULE
NOT TO SCALE

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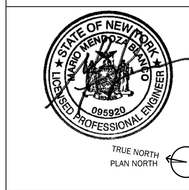
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BOOKSTORE PSYCHOLOGY SWING SPACE FOR CONSTRUCTION

REVISIONS

ISSUE

MECHANICAL - DETAILS

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GOODY CLANCY PROJECT NUMBER: 24006
FILE NAME:
DRAWN: AA, PE | DATE: 01/10/2025
CHECKED: MM, PE | SCALE: N.T.S.
DRAWING NO.:

M501

ELECTRICAL SYMBOLS LIST

5, 3, 1	HOMERUN–NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY. PROVIDE SEPARATE NEUTRALS FOR EACH CIRCUIT. 2#12+1#12G–3/4"C FOR ONE CKT. HOMERUN, U.O.N. 4#12+1#12G–3/4"C FOR TWO CKT. HOMERUN, U.O.N. 6#12+1#12G–3/4"C FOR THREE CKT. HOMERUN, U.O.N.
1	HOMERUN – NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY
	EXISTING CONDUIT/EQUIPMENT TO REMAIN
	EXISTING CONDUIT/EQUIPMENT TO BE DISCONNECTED AND REMOVED
	NEW CONDUIT
S^{3}_{a}	SINGLE POLE SWITCH a = CONTROLLING FIXTURE 'a' 3 = THREE–WAY P = PROJECTION SCREEN SWITCH
S_{T}	DISCONNECT SWITCH – TOGGLE TYPE WITH THERMAL OVERLOAD – 277V HP RATED
S_{m}	DISCONNECT SWITCH – TOGGLE TYPE MOTOR RATED, 20A, 1P, U.O.N.
S^{D}_{a}	SINGLE POLE DIMMER a = CONTROLLING FIXTURE 'a' 3 = THREE–WAY
	20A, 125V DUPLEX RECEPTACLE – FLUSH WALL MOUNTED FL = FLOOR MOUNTED S.C. = ON SEPARATE CIRCUIT WP = WEATHERPROOF
GFI	20A, 125V DUPLEX RECEPTACLE – FLUSH WALL MOUNTED, GFI TYPE
GFI	20A, 125V QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED. GFI DENOTES QUAD GFI.
	20A, 125V QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED. ON SEPARATE CIRCUIT.
	20A, 125V DUPLEX RECEPTACLE – FLUSH WALL MOUNTED. ON SEPARATE CIRCUIT.
	20A, 125V DUPLEX RECEPTACLE – FLUSH WALL MOUNTED. ON EMERGENCY CIRCUIT.
	SPECIAL APPLIANCE RECEPTACLE – FLUSH WALL MOUNTED. TYPE AS REQUIRED PER EQUIPMENT SPECS.
J	JUNCTION BOX.
	COMBINATION VOICE AND DATA OUTLET LOCATION WITH EMPTY CONDUIT TERMINATED 6" ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE AND INSTALL BUSHED OPENING. REFER TO AV/IT CONSULTANT'S PLANS FOR ALL CONDUIT/RACEWAY DIMENSIONS AND REQUIREMENTS.
30/3	UNFUSED DISCONNECT SWITCH SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED
100/60/3	FUSED DISCONNECT SWITCH; SWITCH AMPS/FUSE AMPS/ # OF POLES, VOLTAGE RATING AS REQUIRED
	FLUSH MOUNTED PANELBOARD
M	MOTOR
MD	MOTORIZED DAMPER WITH THERMAL ON/OFF SWITCH
	EXISTING WALL MOUNTED EXIT SIGN TO BE REMOVED
	EXISTING CEILING MOUNTED EXIT SIGN TO BE REMOVED
S	EXISTING LIGHT SWITCH TO BE REMOVED

ABBREVIATIONS

(E)	EXISTING TO REMAIN
S.C.	DENOTES ON SEPARATE CIRCUIT
WP	DENOTES WEATHERPROOF
(ER)	DENOTES EXISTING TO BE RELOCATED
(RE)	DENOTES EXISTING RELOCATED
EM/NL	DENOTES EMERGENCY/NIGHT LIGHT FIXTURE

ELECTRICAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF ELECTRICAL WORK AS DESCRIBED IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS IN FULL COORDINATION WITH THE ARCHITECT'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE–ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY.
3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
5. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUITS, ETC., FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD.
6. ALL RACEWAYS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
7. ALL UNUSED OUTLET BOXES OR CAPPED FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.
8. EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.
9. PORTIONS OF FEEDER RUNS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS, CABLE TYPE, CONDUCTOR AMPACITY, CONDUIT SIZES, ETC.
10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW CLOSELY THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR, AS DIRECTED BY THE OWNER.
12. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
13. ANY SHUTDOWN OF EXISTING BUILDING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

ELECTRICAL GENERAL NOTES

1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL ELECTRICAL DRAWINGS.
2. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN NEC REQUIRED CLEARANCES, HEADROOM AND SPACE CONDITIONS.
4. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
5. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVERS).
6. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
7. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS, IN 2 INCH SLABS OR IN TERRAZZO FLOOR FINISH.
8. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.
9. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
10. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
11. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
12. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
13. PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
14. EMPTY RACEWAY RUNS: PROVIDE PULLBOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
15. JUNCTION AND PULLBOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.
16. SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
17. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
18. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
19. PROVIDE 2#14 INDICATING PILOT LIGHT WIRES FROM PILOT LIGHT IN CONTROLLER TO LOAD SIDE OF DISCONNECT SWITCH. RUN WIRES IN BRANCH CIRCUIT CONDUIT AND INCREASE CONDUIT SIZE AS REQUIRED.
20. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
21. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. COMMON BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
22. WIRE COLOR CODING: AS PER CODE. WHERE COLOR–CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
23. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
24. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
25. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONTROL WIRING REQUIREMENTS WITH THE MECHANICAL CONTRACTOR TO ENSURE A COMPLETE WORKING SYSTEM. WHERE REQUIRED, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONTROL WIRING NOT IN MECHANICAL CONTRACTOR'S SCOPE.

LIST OF DRAWINGS

DWG NUMBER	DESCRIPTION
E001	ELECTRICAL NOTES AND SYMBOL LIST
EN002.00	NYSECCC COMPLIANCE PLAN, LIGHTING
EN003.00	NYSECCC COMPLIANCE REPORT, LIGHTING
ED101	ELECTRICAL - UPPER & LOWER LEVEL PART PLANS LIGHTING DEMOLITION WORK
ED102	ELECTRICAL - UPPER & LOWER LEVEL PART PLANS POWER & TELDATA DEMOLITION WORK
E101	ELECTRICAL - UPPER & LOWER LEVEL PART PLANS LIGHTING NEW WORK
E102	ELECTRICAL - UPPER & LOWER LEVEL PART PLANS POWER & TELDATA NEW WORK
E200	ELECTRICAL RISER AND PANEL SCHEDULES

SUNY State University Construction Fund

Purchase College
STATE UNIVERSITY OF NEW YORK

291029-04 REHABILITATE NATURAL SCIENCES BUILDING - BOOKSTORE SURGE RENOVATION

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ELECTRICAL - SYMBOLS, LEGEND & NOTES

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GOODY CLANCY PROJECT NUMBER: 24006
FILE NAME:
DRAWN: PP | DATE: 01/10/2025
CHECKED: MM, PE | SCALE: NONE
DRAWING NO.:

E001

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	LUMENS	KELVIN (K)	CRI	WATTS	DIM/%	VOLT	FINISH	DIMENSIONS	NOTES/COMMENT
LR1	LITECONTROL (BOD) ELITE BIRCHWOOD	3L-LG-D-X'-SOF-C1-35K9-D60-D01-1C-UNV (BOD) OLS-R-LED JAK-LED-325	600/FT	3500	90	5.5/FT	0-10V	UNV	WHITE	3" x LENGTH	REFER TO ARCH RCP FOR LENGTH AND MOUNTING SYSTEM.
LR2	LITECONTROL (BOD) ELITE BIRCHWOOD	3L-LG-D-X'-SOF-C1-35K9-D40-D01-1C-UNV (BOD) OLS-R-LED JAK-LED-325	400/FT	3500	90	3.5/FT	0-10V	UNV	RAL	3" x LENGTH	REFER TO ARCH RCP FOR LENGTH AND MOUNTING SYSTEM. HOUSING COLOR TO MATCH SURROUNDING CEILING.
LS1	LITECONTROL (BOD) ELITE BIRCHWOOD	3L-P-D-X'-X-SOF-C1-35K9-D060-D01-1C-UNV-FA1 OLS-D-LED COL-LED	600/FT	3500	90	5.25/FT	0-10V	UNV	WHITE	3" x LENGTH	REFER TO ARCH RCP FOR LENGTH AND MOUNTING SYSTEM.
LS2	LITHONIA (BOD) METALUX LUXRITE	ZLIN-L48-SMR-3500LM-FST-MVOLT-35K-90CRI-WH 4SNX-48SL-LN-UNV-L935-CD1-U LR25195-LED48/WLINEAR/3CCT/3WO/UNV/D/HO		3500	90			UNV	WHITE	48"	REFER TO ARCH RCP FOR LENGTH AND MOUNTING SYSTEM.
R1	LIFESHIELD METALUMEN VISA LIGHTING	MDMB-24-8-35-G-U TC6-2L35K-24 CM1885-W	3900	3500	80	45	0-10V	UNV	WHITE	1' x 4	
X1	DUALLITE LCD EXITRONIX	CCEL-X-X-X-X-X XTL-AL S900U	-	-	-	-	-	-	SATIN ALUMINUM	-	FACE QUANTIY AND CHEVRONS AS NOTED ON THE ELECTRICAL PLANS. LETTERING COLOER PER ARCH ALL EXIT SIGNS SHALL HAVE A MIRROR BACKGROUND
ETR	N/A	N/A								VARIES	EXISTING LIGHT FIXTURE TO REMAIN
SAL-2	N/A	N/A								2' X 2'	EXISTING 2'X2' TROFFER LINEARS SALVAGED FOR REUSE.
SAL-T	N/A	N/A								1'X4'	EXISTING 1'X4' SUSPENDED LINEARS SALVAGED FOR REUSE.

CONTROLS SYMBOL LEGEND

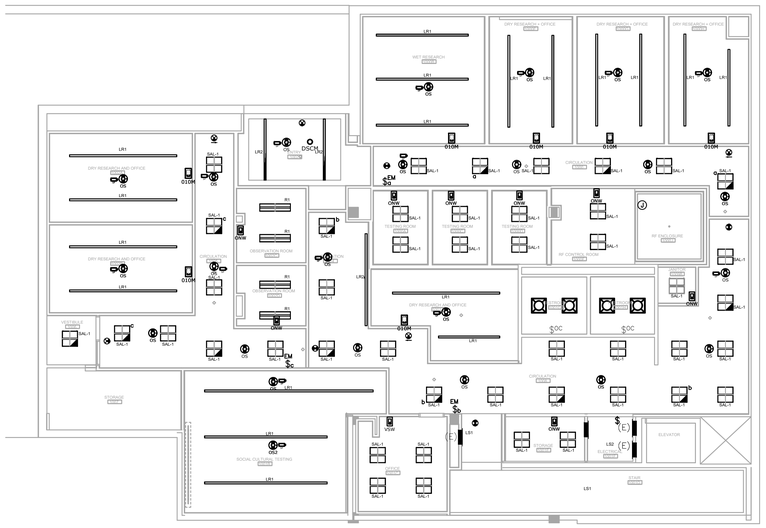
(BASIS OF DESIGN IS GREENGATE SERIES AS MANUFACTURED BY COOPER LIGHTING OR APPROVED EQUAL. ACCEPTABLE ALTERNATE MANUFACTURERS ARE LUTRON AND WATTSTOPPER)

010M	WBSD-010M-C1	0-10v Preset Slide Dimmer
GMDS	GMDS-W	Greengate momentary decorator switch
SP	SP20-RD4	120/277V Switchpack
ONW	ONW-D-1001-MV-W	Wall Mount, Dual Technology Occupancy Sensor
VSW	VSW-P-0801-W	Wall Mount, Vacancy Sensor
OS	OAC-DT-1000	Ceiling Mount, Dual Tech Occupancy Sensor. 1000 sq. ft. Range
	RC-3TLB-Z1D-W 3 Large Button Zone Station Pre Engraved	Room Controller Wallstation
	RC-3TLB-Z2D-W 3 Large Button Zone Station Pre Engraved	Room Controller Wallstation
RC3D-PL	RC3D-PL	3 Relay + 3 Dimmer Room Controller 120/277V
	OCC-RJ45	Occupancy Coupler RJ45 Connector
OS2	OAC-DT-2000	Ceiling Mount, Dual Tech Occupancy Sensor. 2000 sq. ft. Range
DSCM	DSCM-FMOIR	Open loop Daylight Sensor/IR Receiver

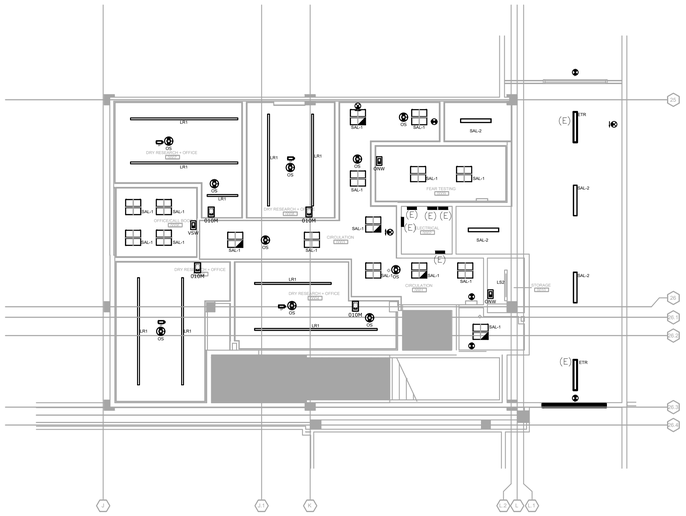
NOTES:
1. COORDINATE ALL WIRING WITH GREENGATE/COOPER VENDOR TO ENSURE A COMPLETE AND OPERATIONAL LIGHTING CONTROLS PACKAGE.
2. COORDINATE WITH GREENGATE/COOPER VENDOR FOR LOCATIONS AND SETTINGS OF ALL DEVICES/SENSORS TO ENSURE PROPER AND EFFICIENT OPERATION PER OWNER AND OCCUPANCY REQUIREMENTS.
3. COORDINATE WITH GREENGATE/COOPER VENDOR FOR COLOR, FINISH, AND ENGRAVING/LABELING OF ALL BUTTON CONTROLLER WALLSTATIONS.

GENERAL NOTES LIGHTING:

1. REFER TO DRAWING E001 FOR SYMBOLS LIST, GENERAL NOTES, GENERAL DEMOLITION NOTES, AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT DIMENSIONED LOCATIONS OF ALL LIGHTING FIXTURES.
3. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E101 FOR LIGHTING FIXTURE SPECIFICATIONS AND MANUFACTURERS.
4. REFER TO DRAWING E-200 FOR PANEL SCHEDULES AND RISER.



1 ELECTRICAL - UPPER LEVEL PART PLAN LIGHTING NEW WORK
1/8" = 1' 0"



2 ELECTRICAL - LOWER LEVEL PART PLAN LIGHTING NEW WORK
1/8" = 1' 0"

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REVISIONS

ISSUE

NYS ENERGY COMPLIANCE PLAN, LIGHTING

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GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN: PP	DATE: 01/10/2025
CHECKED: MM, PE	SCALE: AS NOTED

DRAWING NO.:

EN002

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2020 NYStretch Energy Code - 90.1 (2016) Standard
Project Title: Purchase College Bookstore
Project Type: Alteration

Construction Site:
735 Anderson Hill Rd.
Purchase, New York 10577

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Lower Level (Common Space Types:Conference/Meeting/Multipurpose)	2038	0.93	1895
2-Upper Level (Common Space Types:Conference/Meeting/Multipurpose)	5119	0.93	4761
		Total Allowed Watts =	6656

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Lower Level (Common Space Types: Conference/Meeting/Multipurpose, 2038 sq.ft.)				
LED: SAL-1: 2X2 RECESSED: Other:	1	16	43	688
LED: LR-1 14FT: STRIP FIXTURE: Other:	1	4	77	308
LED: LR-1 10FT: STRIP FIXTURE: Other:	1	2	55	110
LED: LR-1 16FT: STRIP FIXTURE: Other:	1	1	88	88
LED: LR-1 12FT: STRIP FIXTURE: Other:	1	2	66	132
LED: SAL-2: 1X4 PENDANT: Other:	1	2	43	86
Upper Level (Common Space Types: Conference/Meeting/Multipurpose, 5119 sq.ft.)				
LED: SAL-1: 2X2 RECESSED: Other:	1	45	43	1935
LED: LR-1 8FT: STRIP FIXTURE: Other:	1	3	44	132
LED: LR-1 14FT: STRIP FIXTURE: Other:	1	5	77	385
LED: LR-1 20FT: STRIP FIXTURE: Other:	1	1	110	110
LED: LR-1 16FT: STRIP FIXTURE: Other:	1	2	88	176
LED: LR-1 12FT: STRIP FIXTURE: Other:	1	8	66	528
LED: LR-1 10FT: STRIP FIXTURE: Other:	1	1	55	55
LED: LS-1 4FT: STRIP FIXTURE: Other:	1	2	14	28
LED: LS-1 30FT: STRIP FIXTURE: Other:	1	1	105	105
			Total Proposed Watts =	4866

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 NYStretch Energy Code - 90.1 (2016) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2020 NYStretch Energy Code - 90.1 (2016) Standard

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 5%.	☐Complies ☐Does Not ☐Not Observable ■Not Applicable	
4.2.2, 9.4.3, 9.7 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	■Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
8.4.3 [EL11][2]	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
9.4.1.1 [EL1][2]	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1 [EL2][2]	Irdependent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1f [EL13][1]	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
9.4.1.3 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.6.2 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16][3]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ■Not Observable ☐Not Applicable	Requirement will be met.
8.7.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ■Not Observable ☐Not Applicable	Requirement will be met.
9.2.2.3 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	■Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
9.4.4 [FI20][1]	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	☐Complies ☐Does Not ☐Not Observable ■Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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NYS ENERGY COMPLIANCE REPORT, LIGHTING

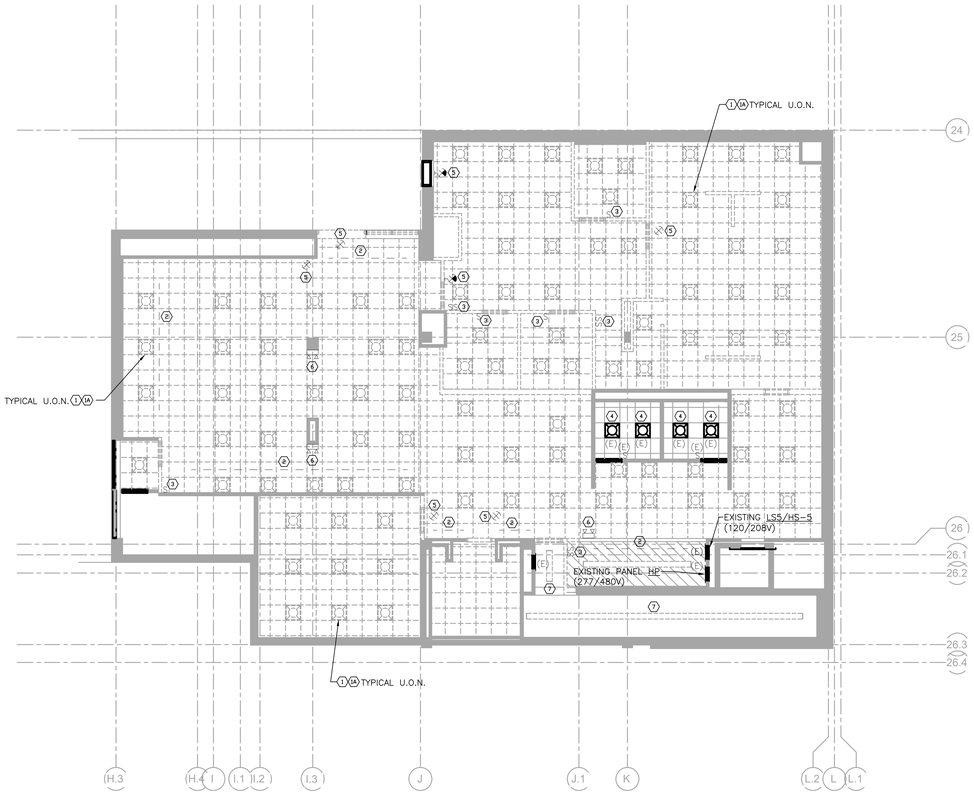
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GOODY CLANCY PROJECT NUMBER: 24006
FILE NAME:
DRAWN: PP DATE: 01/10/2025
CHECKED: MM, PE SCALE: NONE
DRAWING NO.:

EN003

GENERAL NOTES POWER:

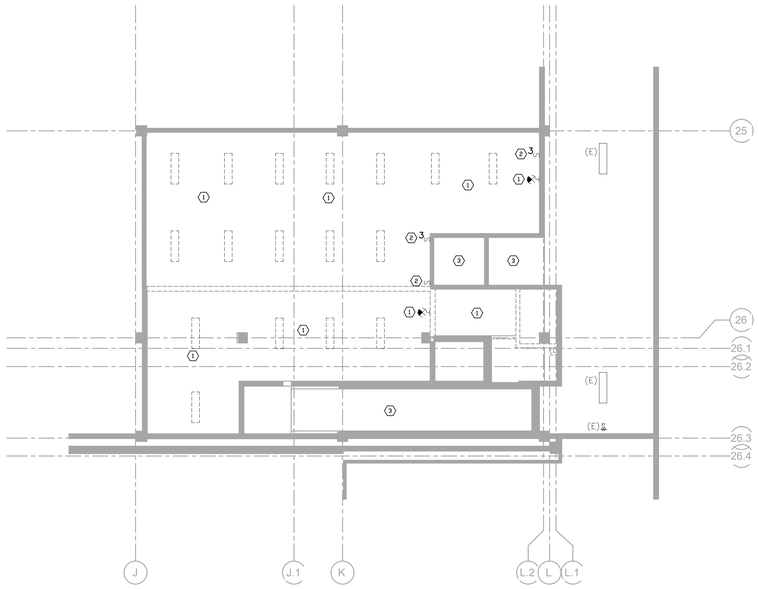
1. REFER TO DRAWING E001 FOR SYMBOLS LIST, GENERAL NOTES, GENERAL DEMOLITION NOTES, AND ABBREVIATIONS.



1 ELECTRICAL - UPPER LEVEL PART PLAN LIGHTING DEMOLITION
1/8" = 1' 0"

UPPER LEVEL LIGHTING DEMO NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING 2'X2' LIGHTING FIXTURES IN SCOPE AREAS OF RENOVATION, ALONG WITH ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL.
2. STORE ALL EXISTING 2X2 LIGHTING FIXTURES IN SCOPE AREAS OF RENOVATION AS REQUIRED FOR REINSTALLATION. PROTECT DURING CONSTRUCTION. CLEAN, REFURBISH AND RELAMP AS REQUIRED PRIOR TO REINSTALLATION. COORDINATE IN FIELD.
3. DISCONNECT AND REMOVE ALL EXISTING TRACK LIGHTING AND FIXTURES IN SCOPE AREAS OF RENOVATION, ALONG WITH ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL. COORDINATE IN FIELD.
4. DISCONNECT AND REMOVE EXISTING SWITCHES/OCCUPANCY SENSORS, ALONG WITH WIRING AND CONDUIT. COORDINATE IN FIELD.
5. MAINTAIN EXISTING LIGHTING, CIRCUITING AND MOTION SENSORS IN BATHROOMS. RECONNECT IF INTERRUPTED. CLEAN AND RELAMP FIXTURES AS REQUIRED. COORDINATE IN FIELD.
6. DISCONNECT AND REMOVE EXISTING EXIT SIGNS. COORDINATE IN FIELD.
7. DISCONNECT AND REMOVE EXISTING EMERGENCY FIXTURE AND BATTERY PACKS. COORDINATE IN FIELD.
8. EXISTING LIGHTING FIXTURES IN STAIRS SHALL BE REPLACED WITH NEW. MAINTAIN EXISTING CIRCUITING FOR CONNECTION TO NEW FIXTURES. COORDINATE IN FIELD.



2 ELECTRICAL - LOWER LEVEL PART PLAN LIGHTING DEMOLITION
1/8" = 1' 0"

LOWER LEVEL LIGHTING DEMO NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES IN SCOPE AREAS OF RENOVATION, ALONG WITH ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL. SALVAGE AND STORE EXISTING 1X4 PENDANT FIXTURES IN SCOPE AREA OF RENOVATION FOR REINSTALLATION. PROTECT DURING CONSTRUCTION. TWO (2) 1X4 PENDANT FIXTURES SHALL BE RELOCATED TO TUNNEL. COORDINATE IN FIELD.
2. DISCONNECT AND REMOVE EXISTING SWITCHES/OCCUPANCY SENSORS, ALONG WITH WIRING AND CONDUIT. COORDINATE IN FIELD.
3. MAINTAIN EXISTING LIGHTING, CIRCUITING AND SWITCHING TO AREAS NOT PART OF ALTERATIONS. RECONNECT IF INTERRUPTED. COORDINATE IN FIELD.

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ELECTRICAL - UPPER & LOWER LEVEL PART PLANS LIGHTING DEMOLITION WORK

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GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

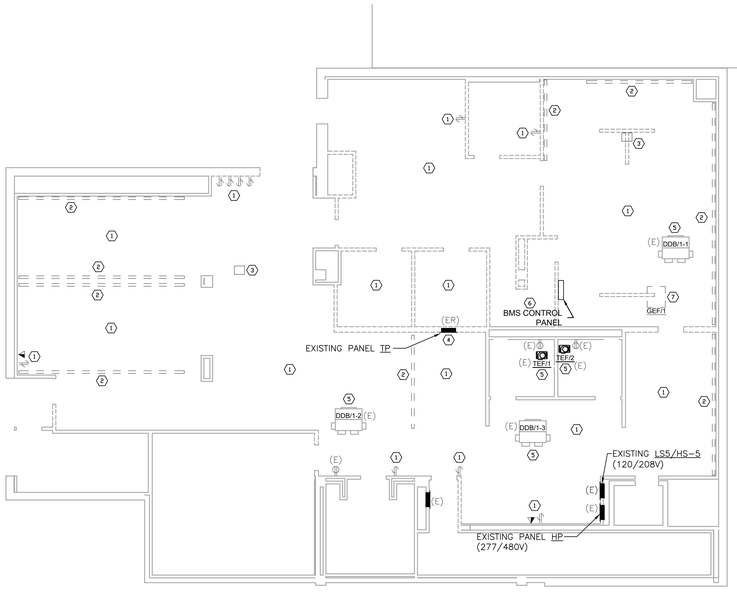
DRAWN: PP	DATE: 01/10/2025
CHECKED: MM, PE	SCALE: AS NOTED

DRAWING NO.:

ED101

GENERAL NOTES POWER:

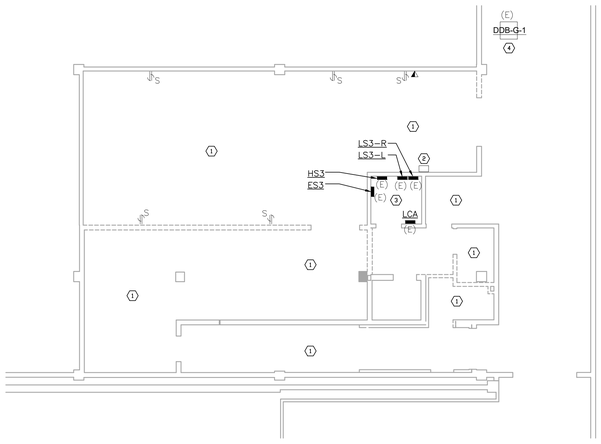
1. REFER TO DRAWING E001 FOR SYMBOLS LIST, GENERAL NOTES, GENERAL DEMOLITION NOTES, AND ABBREVIATIONS.



1 ELECTRICAL - UPPER LEVEL PART PLAN POWER & TELDATA DEMOLITION
1/8" = 1' 0"

UPPER LEVEL POWER & TELDATA DEMO NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, TELDATA OUTLETS, AND EQUIPMENT IN AREAS BEING RENOVATED, ALONG WITH ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE. REMOVALS SHALL NOT BE LIMITED TO DEVICES SHOWN ON PLAN. COORDINATE ALL REMOVALS IN FIELD.
2. DISCONNECT AND REMOVE ALL EXISTING FLOOR MOUNTED AND WALL MOUNTED RACEWAYS, TELDATA OUTLETS, AND EQUIPMENT IN AREAS BEING RENOVATED, ALONG WITH ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE. REMOVALS SHALL NOT BE LIMITED TO DEVICES SHOWN ON PLAN. COORDINATE ALL REMOVALS IN FIELD.
3. DISCONNECT AND REMOVE ALL EXISTING POWER POLES IN AREAS BEING RENOVATED, ALONG WITH ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE. REMOVALS SHALL NOT BE LIMITED TO DEVICES SHOWN ON PLAN. COORDINATE ALL REMOVALS IN FIELD.
4. DISCONNECT, REMOVE AND RELOCATE EXISTING ELECTRICAL PANEL TP AS SHOWN ON DRAWING E102. EXISTING FEEDER AND ALL EXISTING BRANCH CIRCUITS WIRING AND CONDUIT SHALL BE DISCONNECTED AND REMOVED IN THEIR ENTIRETY. COORDINATE IN FIELD.
5. EXISTING HVAC EQUIPMENT TO REMAIN. EXISTING CIRCUIT WIRING AND CONDUIT TO EXISTING PANEL TP SHALL BE REMOVED IN THEIR ENTIRETY. EQUIPMENT SHALL BE RECONNECTED TO PANEL TP BEING RELOCATED AND TO BMS PANEL BEING RELOCATED. COORDINATE IN FIELD.
6. EXISTING BMS CONTROL PANEL TO BE RELOCATED. COORDINATE WITH MECHANICAL PLANS.
7. EXISTING EXHAUST FAN TO BE DISCONNECTED AND REMOVED AS SHOWN ON MECHANICAL PLANS. REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE PANEL. COORDINATE IN FIELD.



2 ELECTRICAL - LOWER LEVEL PART PLAN POWER & TELDATA DEMOLITION
1/8" = 1' 0"

LOWER LEVEL POWER & TELDATA DEMO NOTES:

1. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, TELDATA OUTLETS, AND EQUIPMENT IN AREA BEING RENOVATED, ALONG WITH ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE. REMOVALS SHALL NOT BE LIMITED TO DEVICES SHOWN ON PLAN. COORDINATE ALL REMOVALS IN FIELD.
2. DISCONNECT, REMOVE AND RELOCATE EXISTING TELDATA EQUIPMENT CABINET. COORDINATE WITH CAMPUS IT REPRESENTATIVE IN FIELD.
3. EXISTING ELECTRICAL ROOM AND PANELS TO REMAIN.
4. EXISTING HVAC EQUIPMENT TO REMAIN. MAINTAIN EXISTING FEEDER. COORDINATE IN FIELD.

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FILE NAME:

DRAWN: PP	DATE: 01/10/2025
CHECKED: MM, PE	SCALE: AS NOTED

DRAWING NO.:

ED102

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	LUMENS	KELVIN (K)	CRI	WATTS	DIM/%	VOLT	FINISH	DIMENSIONS	NOTES/COMMENT
LR1	LITECONTROL (BOD) ELITE BIRCHWOOD	3L-LG-D-X'-SOF-C1-35K9-D60-D01-1C-UNV (BOD) OLS-R-LED JAK-LED-325	600/FT	3500	90	5.5/FT	0-10V	UNV	WHITE	3" x LENGTH	REFER TO ARCH RCP FOR LENGTH AND MOUNTING SYSTEM.
LR2	LITECONTROL (BOD) ELITE BIRCHWOOD	3L-LG-D-X'-SOF-C1-35K9-D40-D01-1C-UNV (BOD) OLS-R-LED JAK-LED-325	400/FT	3500	90	3.5/FT	0-10V	UNV	RAL	3" x LENGTH	REFER TO ARCH RCP FOR LENGTH AND MOUNTING SYSTEM. HOUSING COLOR TO MATCH SURROUNDING CEILING.
LS1	LITECONTROL (BOD) ELITE BIRCHWOOD	3L-P-D-X'-X-SOF-C1-35K9-D060-D01-1C-UNV-FA1 OLS-D-LED COL-LED	600/FT	3500	90	5.25/FT	0-10V	UNV	WHITE	3" x LENGTH	REFER TO ARCH RCP FOR LENGTH AND MOUNTING SYSTEM.
LS2	LITHONIA (BOD) METALUX LUXRITE	ZLIN-L48-SMR-3500LM-FST-MVOLT-35K-90CRI-WH 4SNX-48SL-LN-UNV-L935-CD1-U LR25195-LED48/WLINEAR/3CCT/3WO/UNV/D/HO		3500	90			UNV	WHITE	48"	REFER TO ARCH RCP FOR LENGTH AND MOUNTING SYSTEM.
R1	LIFESHIELD METALUMEN VISA LIGHTING	MDMB-24-8-35-G-U TC6-2L35K-24 CM1885-W	3900	3500	80	45	0-10V	UNV	WHITE	1' x 4	
X1	DUALLITE LCD EXITRONIX	CCEL-X-X-X-X-X XTL-AL S900U	-	-	-	-	-	-	SATIN ALUMINUM	-	FACE QUANTIY AND CHEVRONS AS NOTED ON THE ELECTRICAL PLANS. LETTERING COLOER PER ARCH ALL EXIT SIGNS SHALL HAVE A MIRROR BACKGROUND
ETR	N/A	N/A								VARIES	EXISTING LIGHT FIXTURE TO REMAIN
SAL-2	N/A	N/A								2' X 2'	EXISTING 2'X2' TROFFER LINEARS SALVAGED FOR REUSE.
SAL-T	N/A	N/A								1'X4'	EXISTING 1'X4' SUSPENDED LINEARS SALVAGED FOR REUSE.

CONTROLS SYMBOL LEGEND

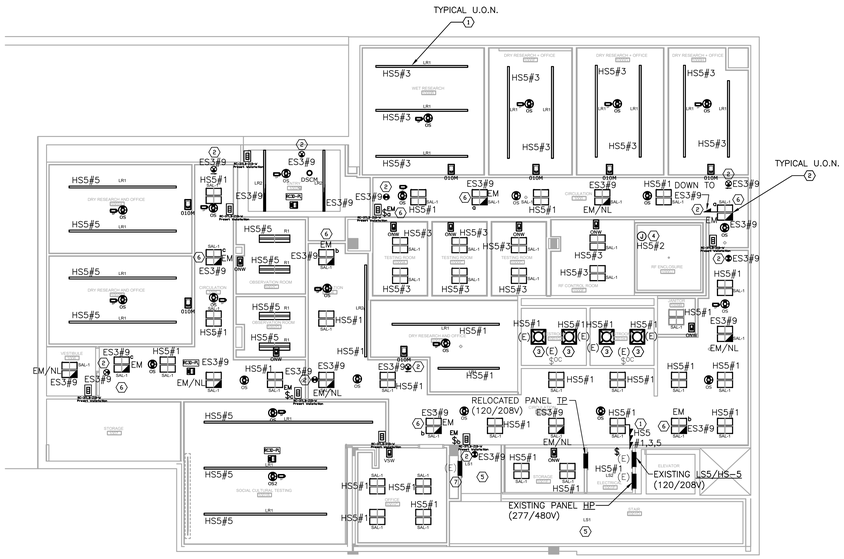
(BASIS OF DESIGN IS GREENGATE SERIES AS MANUFACTURED BY COOPER LIGHTING OR APPROVED EQUAL. ACCEPTABLE ALTERNATE MANUFACTURERS ARE LUTRON AND WATTSTOPPER)

010M	WBSD-010M-C1	0-10v Preset Slide Dimmer
GMDS	GMDS-W	Greengate momentary decorator switch
SP	SP20-RD4	120/277V Switchpack
ONW	ONW-D-1001-MV-W	Wall Mount, Dual Technology Occupancy Sensor
VSW	VSW-P-0801-W	Wall Mount, Vacancy Sensor
OS	OAC-DT-1000	Ceiling Mount, Dual Tech Occupancy Sensor. 1000 sq. ft. Range
	RC-3TLB-Z1D-W 3 Large Button Zone Station Pre Engraved	Room Controller Wallstation
	RC-3TLB-Z2D-W 3 Large Button Zone Station Pre Engraved	Room Controller Wallstation
RC3D-PL	RC3D-PL	3 Relay + 3 Dimmer Room Controller 120/277V
	OCC-RJ45	Occupancy Coupler RJ45 Connector
OS2	OAC-DT-2000	Ceiling Mount, Dual Tech Occupancy Sensor. 2000 sq. ft. Range
DSCM	DSCM-FMOIR	Open loop Daylight Sensor/IR Receiver

NOTES:
1. COORDINATE ALL WIRING WITH GREENGATE/COOPER VENDOR TO ENSURE A COMPLETE AND OPERATIONAL LIGHTING CONTROLS PACKAGE.
2. COORDINATE WITH GREENGATE/COOPER VENDOR FOR LOCATIONS AND SETTINGS OF ALL DEVICES/SENSORS TO ENSURE PROPER AND EFFICIENT OPERATION PER OWNER AND OCCUPANCY REQUIREMENTS.
3. COORDINATE WITH GREENGATE/COOPER VENDOR FOR COLOR, FINISH, AND ENGRAVING/LABELING OF ALL BUTTON CONTROLLER WALLSTATIONS.

GENERAL NOTES LIGHTING:

1. REFER TO DRAWING E001 FOR SYMBOLS LIST, GENERAL NOTES, GENERAL DEMOLITION NOTES, AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT DIMENSIONED LOCATIONS OF ALL LIGHTING FIXTURES.
3. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E101 FOR LIGHTING FIXTURE SPECIFICATIONS AND MANUFACTURERS.
4. REFER TO DRAWING E-200 FOR PANEL SCHEDULES AND RISER.

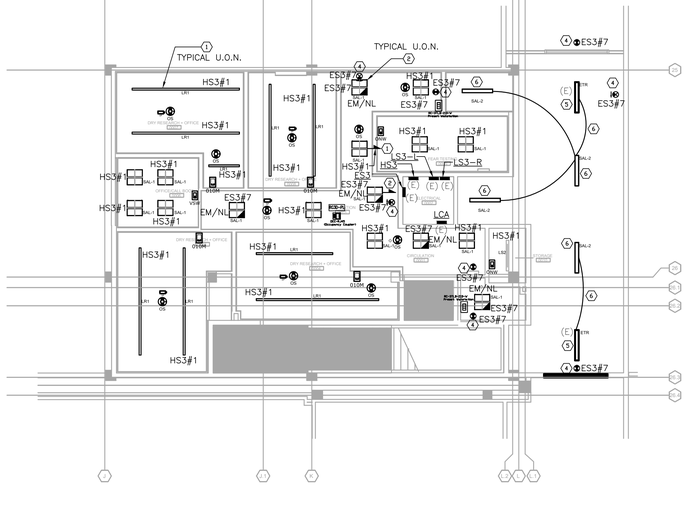


1 ELECTRICAL - UPPER LEVEL PART PLAN LIGHTING NEW WORK

1/8" = 1' 0"

UPPER LEVEL LIGHTING PLAN NOTES:

1. CONNECT NEW LIGHTING FIXTURES TO EXISTING PANEL HS5, AND NEW SWITCH/SENSORS. UTILIZE SPARE CIRCUIT BREAKERS/SPACES IN PANEL HS5 FOR NEW CIRCUITS. CIRCUIT BREAKERS SHALL BECOME AVAILABLE DUE TO DEMOLITION OF EXISTING LIGHTING. COORDINATE IN FIELD.
2. CONNECT NEW EMERGENCY/NIGHT LIGHTING FIXTURES AND EXIT SIGNS TO EXISTING 120/208V EMERGENCY PANEL ES3. FIXTURES SHALL BE UNSWITCHED. UTILIZE EXISTING SPACE IN PANEL ES3 FOR NEW CIRCUIT. PROVIDE AND INSTALL NEW 1P-20A CIRCUIT BREAKER FOR NEW CIRCUIT. COORDINATE IN FIELD.
3. EXISTING LIGHTING FIXTURES AND OCCUPANCY SENSORS TO REMAIN.
4. PROVIDE AND INSTALL J.BOX WITH CIRCUIT FOR CONNECTION TO RF ENCLOSURE LIGHTING. LIGHTING AND CONTROLS PROVIDED BY ENCLOSURE MANUFACTURER. COORDINATE IN FIELD.
5. CONNECT NEW STAIR FIXTURES TO EXISTING STAIR LIGHTING CIRCUITING. COORDINATE IN FIELD.
6. FIXTURES DENOTED AS EM SHALL BE CONTROLLED VIA ON/OFF SWITCH. PROVIDE RED COVER PLATE AND LABEL "EMERGENCY LIGHTS".
7. EXISTING STAIR PANEL TO REMAIN.



2 ELECTRICAL - LOWER LEVEL PART PLAN LIGHTING NEW WORK

1/8" = 1' 0"

LOWER LEVEL LIGHTING PLAN NOTES:

1. CONNECT NEW CIRCUIT TO EXISTING 277/480V PANEL HS3 LOCATED IN EXISTING LOWER LEVEL ELECTRICAL ROOM, AND NEW SWITCH/SENSORS, UNLESS OTHERWISE SHOWN. CIRCUIT NUMBER SHOWN ON PLAN IS FOR REFERENCE ONLY. UTILIZE SPARE CIRCUIT BREAKER IN PANEL HS3 FOR NEW CIRCUIT. CIRCUIT BREAKER SHALL BECOME AVAILABLE DUE TO DEMOLITION OF EXISTING LIGHTING. COORDINATE IN FIELD.
2. CONNECT NEW EMERGENCY/NIGHT LIGHTING FIXTURES AND EXIT SIGNS TO EXISTING 120/208V EMERGENCY PANEL ES3. FIXTURES SHALL BE UNSWITCHED. UTILIZE EXISTING SPACE IN PANEL ES3 FOR NEW CIRCUIT. PROVIDE AND INSTALL NEW 1P-20A CIRCUIT BREAKER FOR NEW CIRCUIT. COORDINATE IN FIELD.
3. NOT USED.
4. NEW EXIT SIGN. CONNECT TO EMERGENCY CIRCUIT AS SHOWN.
5. EXISTING 1X4 PENDANT LIGHT FIXTURE TO REMAIN. MAINTAIN EXISTING CIRCUITING.
6. SALVAGED AND RELOCATED 1X4 PENDANT LIGHTING FIXTURE. CONNECT TO EXISTING LIGHTING CIRCUIT. COORDINATE IN FIELD.

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FILE NAME:

DRAWN: PP	DATE: 01/10/2025
CHECKED: MM, PE	SCALE: AS NOTED

DRAWING NO.:

E101

POWER AND TELDATA OUTLETS LOCATION NOTES (TYPICAL FOR UPPER AND LOWER LEVELS):

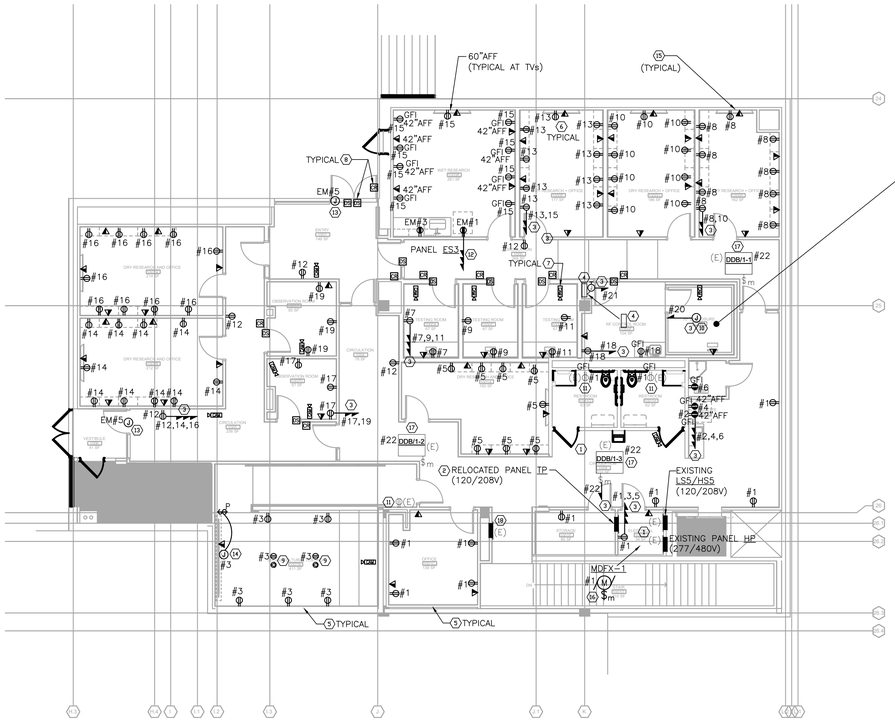
1. OUTLETS AND DEVICES SHOWN ARE NOT TO BE DIMENSIONED OFF THE ENGINEER'S PLANS. COORDINATE EXACT LOCATIONS OF ALL SURFACE RACEWAYS, POWER AND TELDATA OUTLETS, CAMERAS, CARD READERS AND DOOR STRIKES WITH THE ARCHITECT, INCLUDING ALL MOUNTING HEIGHTS.
2. IN AREAS WHERE SURFACE RACEWAY IS BEING PROVIDED, ALL POWER AND TELDATA OUTLETS SHALL BE LOCATED ON RACEWAY AT LOCATIONS SHOWN, UNLESS DIRECTED BY ARCHITECT.
3. IN AREAS WHERE NO SURFACE RACEWAY IS BEING PROVIDED, ALL POWER AND TELDATA OUTLETS SHALL BE MOUNTED ON THE WALL 18"AFF, UNLESS SHOWN OTHERWISE.
4. REFER TO, AND COORDINATE WITH, AV/IT CONSULTANT'S DRAWINGS FOR ALL AV/IT CONDUIT/RACEWAYS DIMENSIONS AND REQUIREMENTS.

GENERAL NOTES POWER:

1. REFER TO DRAWING E001 FOR SYMBOLS LIST, GENERAL NOTES, GENERAL DEMOLITION NOTES, AND ABBREVIATIONS.
2. REFER TO DRAWING E-200 FOR PANEL SCHEDULES AND RISER.

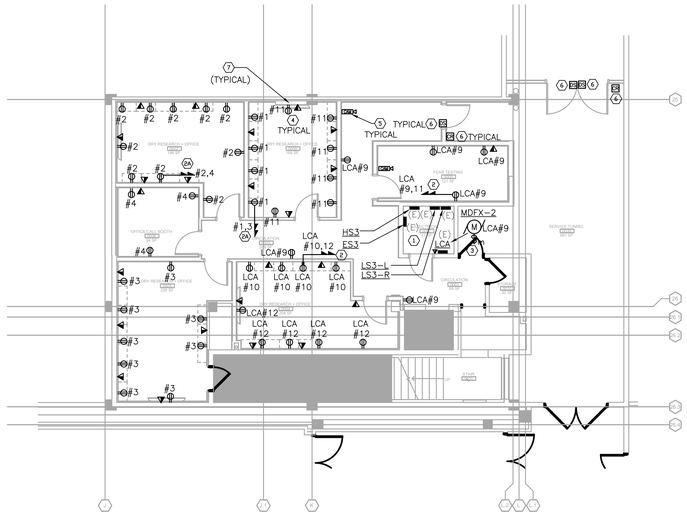
RF ENCLOSURE COORDINATION NOTES:

1. PROVIDE AND INSTALL ONE (1) 20A, 120V DEDICATED CIRCUIT TO THE ENCLOSURE WITH CONNECTION VIA A FLEXIBLE CONDUIT TO THE PROVIDED JUNCTION BOX ON THE ROOF OF THE ENCLOSURE.
2. PROVIDE AND CONNECT A DEDICATED GROUND WIRE TO THE ENCLOSURE IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED BY THE MANUFACTURER.
3. ELECTRICAL DEVICES AND LIGHTING WITHIN THE RF ENCLSOURE TO BE PROVIDED BY THE ENCLOSURE MANUFACTURER. POWER SHALL BE PROVIDED TO THE TOP OF THE ENCLOSURE.
4. REFER TO DETAILS ON DRAWING E200.



1 ELECTRICAL - UPPER LEVEL PART PLAN POWER & TELDATA NEW WORK

1/8" = 1' 0"



2 ELECTRICAL - LOWER LEVEL PART PLAN POWER & TELDATA NEW WORK

1/8" = 1' 0"

UPPER LEVEL POWER & TELDATA PLAN NOTES:

(1) EXISTING ELECTRICAL PANELS AND ASCO RELAYS LOCATED IN THIS AREA ARE TO REMAIN. COORDINATE IN FIELD.

(2) EXISTING ELECTRICAL PANEL TP SHALL BE RELOCATED TO NEW ELECTRICAL ROOM. PROVIDE AND INSTALL NEW FEEDER CONSISTING OF 4#4+1#8G-1 1/4"C AND CONNECT TO EXISTING 3P-70AT CIRCUIT BREAKER IN EXISTING PANEL LS-5. COORDINATE EXACT LOCATION IN FIELD.

(3) ALL NEW CIRCUITS SHALL BE CONNECTED TO EXISTING RELOCATED 120/208V PANEL TP IN NEW ELECTRICAL ROOM, UNLESS SHOWN OTHERWISE. NEW CIRCUIT BREAKERS SHALL BE PROVIDED AS REQUIRED. COORDINATE IN FIELD.

(4) RELOCATED BMS CONTROL PANEL. EXTEND EXISTING WIRING AND PROVIDE NEW WIRING AND CONDUITS AS REQUIRED TO MAINTAIN CONTINUITY OF BMS PANEL AND DATA. COORDINATE WITH MECHANICAL PLANS AND CAMPUS ENGINEER.

(5) PROVIDE AND INSTALL SURFACE-MOUNTED DUAL COMPARTMENT RACEWAY FOR POWER AND TELDATA CABLING, WITH 20A-125V DUPLEX RECEPTACLES LOCATED AS SHOWN AND AS SPECIFIED BY ARCHITECT. PROVIDE TELDATA OPENINGS AT LOCATIONS SHOWN ON PLAN AND AS SPECIFIED BY ARCHITECT. TELDATA JACKS AND CABLING PROVIDED BY CAMPUS IT VENDOR. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL RACEWAYS WITH ARCHITECT. RACEWAY AS MANUFACTURED BY WIREMOLD/LEGRAND SERIES ALA4800 OR AS APPROVED EQUAL.

(6) POWER, TELDATA AND AV CABLING SHALL BE ROUTED DOWN FROM THE CEILING. PROVIDE AND INSTALL 1 1/4"E.C. (EMT) WITH DRAG LINE UP TO HUNG CEILING WITH BUSHED OPENING FOR TELDATA AND AV CABLING. COORDINATE EXACT LOCATIONS, HEIGHTS AND MOUNTING DETAILS WITH ARCHITECT'S PLANS.

(7) CEILING-MOUNTED CAMERA. PROVIDED, INSTALLED AND WIRED BY AV/SECURITY SYSTEM VENDOR. COORDINATE EXACT LOCATIONS AND MOUNTING REQUIREMENTS WITH ARCHITECT AND AV/SECURITY SYSTEM VENDOR.

(8) CARD READER AND ELECTRIC DOOR STRIKE. PROVIDED, INSTALLED AND WIRED BY AV/SECURITY SYSTEM VENDOR. PROVIDE AND INSTALL 120V CONNECTION. COORDINATE EXACT LOCATIONS AND MOUNTING REQUIREMENTS WITH ARCHITECT AND AV/SECURITY SYSTEM VENDOR.

(9) CEILING POWER AND TELDATA OUTLETS FOR PROJECTOR. COORDINATE EXACT LOCATIONS AND MOUNTING REQUIREMENTS WITH ARCHITECT AND AV SYSTEM VENDOR.

(10) PROVIDE AND INSTALL SEPARATE CIRCUIT CONSISTING OF 2#12+1#12 GROUND FOR RF ENCLOSURE POWER. GROUND WIRE SHALL BE ROUTED FROM THE PANEL GROUND BUS TO THE ENCLOSURE GROUND STUD. THE GROUND WIRE MAY RUN INSIDE THE POWER SUPPLY LINE CONDUIT AND INTO THE POWER INPUT COMPARTMENT OF THE POWER FILTER. THE GROUND WIRE SHOULD THEN CONTINUE THROUGH AN EXTRA HOLE ADDED TO THE FILTER CAN AND BE CONNECTED TO THE ENCLOSURE GROUND STUD. COORDINATE INSTALLATION WITH ENCLOSURE MANUFACTURER.

(11) EXISTING RECEPTACLES TO REMAIN. MAINTAIN CIRCUITING. RECONNECT IF DISCONNECTED. COORDINATE IN FIELD.

(12) ROUTE NEW EMERGENCY CIRCUITS TO NEW 1P-20AT CIRCUIT BREAKERS IN EXISTING EMERGENCY PANEL ES3 LOCATED IN LOWER LEVEL ELECTRIC ROOM. UTILIZE EXISTING SPACES FOR NEW CIRCUIT BREAKERS. COORDINATE IN FIELD.

(13) PROVIDE J.BOX AND 120V EMERGENCY POWER FOR AUTOMATIC DOOR. COORDINATE WITH ARCHITECT.

(14) PROVIDE J.BOX AND 120V POWER FOR PROJECTION SCREEN. COORDINATE WITH ARCHITECT.

(15) COORDINATE WITH ASBESTOS ABATEMENT CONTRACTOR FOR MOUNTING OF ELECTRICAL DEVICES AND BOXES ON ALL EXISTING WALLS.

(16) CONNECT NEW EXHAUST FAN TO EXISTING 120V PANEL. REFER TO MECHANICAL PLANS AND SCHEDULES.

(17) EXISTING HVAC EQUIPMENT TO REMAIN. EQUIPMENT SHALL BE RECONNECTED TO PANEL TP BEING RELOCATED. PROVIDE AND INSTALL NEW WIRING AND CONDUIT. ALSO PROVIDE AND INSTALL 1" EMPTY CONDUIT WITH DRAG WIRE FOR CONNECTION TO EXISTING BMS PANEL BEING RELOCATED. COORDINATE IN FIELD.

(18) EXISTING STAIR PANEL TO REMAIN.

LOWER LEVEL POWER & TELDATA PLAN NOTES:

(1) EXISTING ELECTRICAL ROOM AND PANELS TO REMAIN.

(2) CONNECT NEW CIRCUITS SHOWN TO EXISTING 120/208V PANEL LCA IN EXISTING LOWER LEVEL ELECTRICAL ROOM. UTILIZE EXISTING AVAILABLE SPARE CIRCUIT BREAKERS/SPACES IN PANEL. NEW 1P-20A CIRCUIT BREAKERS SHALL BE PROVIDED FOR NEW CIRCUITS. COORDINATE IN FIELD.

(2A) CONNECT NEW CIRCUITS SHOWN TO EXISTING 120/208V PANEL(S) LS3-R AND LS3-L IN EXISTING LOWER LEVEL ELECTRICAL ROOM. CIRCUIT NUMBERS SHOWN ON PLAN ARE FOR REFERENCE ONLY. UTILIZE EXISTING SPARE CIRCUIT BREAKERS/SPACES IN PANELS. CIRCUIT BREAKERS SHALL BECOME AVAILABLE DUE TO DEMOLITION OF EXISTING RECEPTACLES. COORDINATE IN FIELD.

(3) CONNECT NEW EXHAUST FAN TO EXISTING 120V PANEL. REFER TO MECHANICAL PLANS AND SCHEDULES.

(4) POWER, TELDATA AND AV CABLING SHALL BE ROUTED DOWN FROM THE CEILING. PROVIDE AND INSTALL 1 1/4"E.C. (EMT) WITH DRAG LINE UP TO HUNG CEILING WITH BUSHED OPENING FOR TELDATA AND AV CABLING. COORDINATE EXACT LOCATIONS, HEIGHTS AND MOUNTING DETAILS WITH ARCHITECT.

(5) CEILING-MOUNTED CAMERA. PROVIDED, INSTALLED AND WIRED BY AV/SECURITY SYSTEM VENDOR. COORDINATE EXACT LOCATIONS AND MOUNTING REQUIREMENTS WITH ARCHITECT AND AV/SECURITY SYSTEM VENDOR.

(6) CARD READER AND ELECTRIC DOOR STRIKE. PROVIDED, INSTALLED AND WIRED BY AV/SECURITY SYSTEM VENDOR. PROVIDE AND INSTALL 120V CONNECTION. COORDINATE EXACT LOCATIONS AND MOUNTING REQUIREMENTS WITH ARCHITECT AND AV/SECURITY SYSTEM VENDOR.

(7) ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ASBESTOS ABATEMENT CONTRACTOR FOR MOUNTING OF ELECTRICAL DEVICES AND BOXES ON ALL EXISTING WALLS.

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REVISIONS

ISSUE

ELECTRICAL - UPPER & LOWER LEVEL PART PLANS POWER & TELDATA NEW WORK

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GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN:	PP	DATE:	01/10/2025
CHECKED:	MM, PE	SCALE:	AS NOTED

DRAWING NO.:

E102

PANELBOARD SCHEDULE

MAIN PROTECTIVE DEVICE: **MCB** | MOUNTING: **SURFACE** | PANEL DESIGNATION: **ES3 (EXISTING-EMERG)**
MAIN BUS RATING: **100 AMPS** | AIC: **EXISTING** | VOLTS: **120/208** | PHASE: **3** | WIRE: **4+G**

CKT. NO.	TRIP AMPS	LOAD DESCRIPTION	CAT	VA	A	B	C	VA	CAT	LOAD DESCRIPTION	TRIP AMPS	CKT. NO.
1	20	EXISTING		EXIST	0			EXIST		EXISTING	20	2
3	20	EXISTING		EXIST		0		EXIST		EXISTING	20	4
5	20	EXISTING		EXIST			0	EXIST		EXISTING	20	6
7	20	NEW LOWER LEVEL EM/EMNL/EXIT LIGHTING	LTG	400	400					EXISTING SPACE	20	8
9	20	NEW UPPER LEVEL EM/EMNL/EXIT LIGHTING	LTG	350		350				EXISTING SPACE	20	10
11	20	EXISTING SPACE					0	EXIST		EXISTING	20	12
13	20	EXISTING SPACE			0			EXIST		EXISTING	20	14
15	20	EXISTING		EXIST		0		EXIST		EXISTING	20	16
17	20	EXISTING		EXIST			0	EXIST		EXISTING	20	18
19	20	EXISTING		EXIST	0			EXIST		EXISTING	20	20
21	20	EXISTING		EXIST		0		EXIST		EXISTING	20	22
23	20	EXISTING		EXIST			0	EXIST		EXISTING	20	24
25	20	EXISTING		EXIST	0			EXIST		EXISTING	20	26
27	20	EXISTING		EXIST		0		EXIST		EXISTING	20	28
29	20	EXISTING		EXIST			0	EXIST		EXISTING	20	30
31	20	EXISTING		EXIST	0			EXIST		EXISTING	20	32
33	20	EXISTING SPACE				0				EXISTING SPACE	20	34
35	20	EXISTING SPACE					0			EXISTING SPACE	20	36
37				EXIST	0			EXIST		EXISTING	20	38
39	100	MAIN		EXIST		0		EXIST		EXISTING	20	40
41				EXIST				EXIST		EXISTING	20	42

PANELBOARD SCHEDULE

MAIN PROTECTIVE DEVICE: **MLO** | MOUNTING: **SURFACE** | PANEL DESIGNATION: **HS3 (EXISTING)**
MAIN BUS RATING: **100 AMPS** | AIC: **EXISTING** | VOLTS: **277/480** | PHASE: **3** | WIRE: **4+G**

CKT. NO.	TRIP AMPS	LOAD DESCRIPTION	CAT	VA	A	B	C	VA	CAT	LOAD DESCRIPTION	TRIP AMPS	CKT. NO.
1	20	NEW LOWER LEVEL LIGHTING	LTG	400	400			EXIST	EXIST	EXISTING	20	2
3	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	4
5	20	EXISTING	EXIST	EXIST			0	EXIST	EXIST	EXISTING	20	6
7	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	8
9	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	10
11	20	EXISTING	EXIST	EXIST			0	EXIST	EXIST	EXISTING	20	12
13	20	SPARE			0					SPARE	20	14
15	20	SPARE				0				SPARE	20	16
17	20	SPARE					0			SPARE	20	18
19	20	SPARE			0					SPARE	20	20
21	20	SPARE				0				SPARE	20	22
23	20	SPARE					0			SPARE	20	24
25	20	SPARE			0					SPARE	20	26
27	20	SPARE				0				SPARE	20	28
29	20	SPARE					0			SPARE	20	30
31	20	SPARE			0					SPARE	20	32
33	20	SPARE				0				SPARE	20	34
35	20	SPARE					0			SPARE	20	36
37	20	SPARE			0					SPARE	20	38
39	20	SPARE				0				SPARE	20	40
41	20	SPARE								SPARE	20	42

PANELBOARD SCHEDULE

MAIN PROTECTIVE DEVICE: **MLO** | MOUNTING: **RECESSED** | PANEL DESIGNATION: **TP (EXIST. RELOCATED)**
MAIN BUS RATING: **125 AMPS** | AIC: **EXISTING** | VOLTS: **120/208** | PHASE: **3** | WIRE: **4+G**

CKT. NO.	TRIP AMPS	LOAD DESCRIPTION	CAT	VA	A	B	C	VA	CAT	LOAD DESCRIPTION	TRIP AMPS	CKT. NO.
1	20	RECEPTACLES	RCPT	1260	2260			1000	RCPT	KITCHENETTE S.C.	20	2
3	20	RECEPTACLES	RCPT	1080		2080		1000	RCPT	KITCHENETTE S.C.	20	4
5	20	RECEPTACLES	RCPT	1440			2440	1000	RCPT	KITCHENETTE S.C.	20	6
7	20	RECEPTACLES	RCPT	360	1980			1620	RCPT	RECEPTACLES	20	8
9	20	RECEPTACLES	RCPT	360		1980		1620	RCPT	RECEPTACLES	20	10
11	20	RECEPTACLES	RCPT	360			1260	900	RCPT	RECEPTACLES	20	12
13	20	RECEPTACLES	RCPT	1620	3420			1800	RCPT	RECEPTACLES	20	14
15	20	RECEPTACLES	RCPT	1260		3060		1800	RCPT	RECEPTACLES	20	16
17	20	RECEPTACLES	RCPT	540			0	540	RCPT	RECEPTACLES	20	18
19	20	RECEPTACLES	RCPT	540	1740			1200	PWR	RF ENCLOSURE	20	20
21	20	BMS CONTROL PANEL	PWR	300		300				SPARE	20	22
23	20	SPARE					0			SPARE	20	24
25	20	SPARE			0					SPARE	20	26
27	20	SPARE				0				SPARE	20	28
29	20	SPARE					0			SPARE	20	30

CONNECTED KVA: 21.6
DEMAND KVA: 15.8
DEMAND AMPS: 43.9

PANELBOARD SCHEDULE

MAIN PROTECTIVE DEVICE: **100A MCB** | MOUNTING: **SURFACE** | PANEL DESIGNATION: **HS5 (EXISTING)**
MAIN BUS RATING: **100 AMPS** | AIC: **EXISTING** | VOLTS: **120/208** | PHASE: **3** | WIRE: **4+G**

CKT. NO.	TRIP AMPS	LOAD DESCRIPTION	CAT	VA	A	B	C	VA	CAT	LOAD DESCRIPTION	TRIP AMPS	CKT. NO.
1	20	NEW UPPER LEVEL LIGHTING	LTG	720	1000			280	LTG	NEW RF ENCLOSURE LIGHTING	20	2
3	20	NEW UPPER LEVEL LIGHTING	LTG	751		751		EXIST	EXIST	EXISTING	20	4
5	20	NEW UPPER LEVEL LIGHTING	LTG	685			685	EXIST	EXIST	EXISTING	20	6
7	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	8
9	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	10
11	20	EXISTING	EXIST	EXIST			0	EXIST	EXIST	EXISTING	20	12
13	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	14
15	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	16
17	20	EXISTING	EXIST	EXIST			0	EXIST	EXIST	EXISTING	20	18
19	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	20
21	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	22
23	20	EXISTING	EXIST	EXIST			0	EXIST	EXIST	EXISTING	20	24
25	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	26
27	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	28
29	20	EXISTING	EXIST	EXIST			0	EXIST	EXIST	EXISTING	20	30
31	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	32
33	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	34
35	20	EXISTING	EXIST	EXIST			0	EXIST	EXIST	EXISTING	20	36
37	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	38
39	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	40
41	20	EXISTING	EXIST	EXIST				EXIST	EXIST	EXISTING	20	42

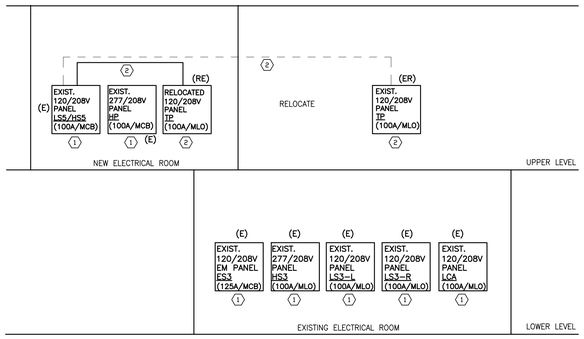
PANELBOARD SCHEDULE

MAIN PROTECTIVE DEVICE: **MLO** | MOUNTING: **SURFACE** | PANEL DESIGNATION: **LCA (EXISTING)**
MAIN BUS RATING: **100 AMPS** | AIC: **EXISTING** | VOLTS: **120/208** | PHASE: **3** | WIRE: **4+G**

CKT. NO.	TRIP AMPS	LOAD DESCRIPTION	CAT	VA	A	B	C	VA	CAT	LOAD DESCRIPTION	TRIP AMPS	CKT. NO.
1	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	2
3	20	EXISTING	EXIST	EXIST		0		EXIST	EXIST	EXISTING	20	4
5	20	EXISTING	EXIST	EXIST			0	EXIST	EXIST	EXISTING	20	6
7	20	EXISTING	EXIST	EXIST	0			EXIST	EXIST	EXISTING	20	8
9	20	CIRCULATION/FEAR TESTING RECS.	RCPT	1080		1800		720	RCPT	DRY RESEARCH/OFFICE RECS.	20	10
11	20	DRY RESEARCH/OFFICE RECS.	RCPT	1080			1980	900	RCPT	DRY RESEARCH/OFFICE RECS.	20	12

GENERAL NOTES POWER:

1. REFER TO DRAWING E001 FOR SYMBOLS LIST, GENERAL NOTES, GENERAL DEMOLITION NOTES, AND ABBREVIATIONS.
2. REFER TO DRAWING E-200 FOR PANEL SCHEDULES AND RISER.



ELECTRIC RISER DIAGRAM-MODIFICATIONS

(NOT TO SCALE)

NEW WORK RISER NOTES

1. EXISTING PANELS TO REMAIN. MAINTAIN EXISTING FEEDERS. PROVIDE AND INSTALL NEW CIRCUIT BREAKERS AS REQUIRED FOR NEW WORK.
2. DISCONNECT, REMOVE AND RELOCATE EXISTING PANEL TP TO NEW ELECTRICAL ROOM. REMOVE EXISTING FEEDER AND PROVIDE AND INSTALL NEW FEEDER CONSISTING OF 4#4+1#8G-1 1/4"C. CONNECT TO EXISTING 3P-70A CIRCUIT BREAKER IN EXISTING PANEL LS5/HS5. COORDINATE IN FIELD.

ETS-LINDGREN ACOUSTIC SYSTEMS

Ventilation, Electrical, and Clearance Requirements
Model RE-142 Single Wall Test Booth

Ventilation Requirements:

Option #1: Integrated ambient air circulation fans

Booth will be provided with variable speed air circulation fans to circulate ambient air through the booth at a rate of one complete exchange every two to ten minutes (variable).

Customer is responsible for ensuring the air space above and behind the booth is well-conditioned.

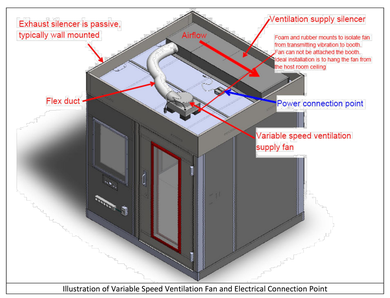


Illustration of Variable Speed Ventilation Fan and Electrical Connection Point

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ETS-LINDGREN ACOUSTIC SYSTEMS

Option #2: Direct connection to your building's HVAC system (recommended). Flow rate determination and connection to the booth are the responsibility of the customer or HVAC contractor. Connections must be made with flexible duct. Systems designed to be connected to a sound booth should be designed for an NC 30-35 environment.

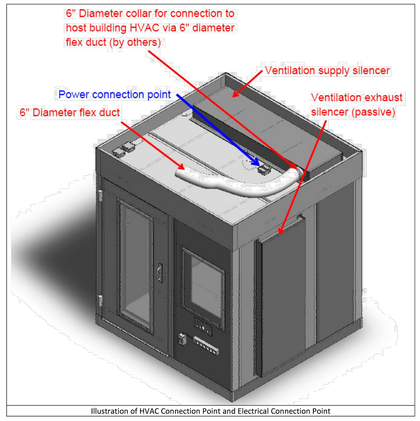


Illustration of HVAC Connection Point and Electrical Connection Point

- Supply connection: 6" diameter duct collar located on the roof of the booth
- Maximum flow rate: 200 cfm
- Recommended flow rate: 70 cfm at approximately .25" static pressure (in. water) of *conditioned* (55 degree) air for an air exchange every 6 minutes

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ETS-LINDGREN ACOUSTIC SYSTEMS

- Exhaust: Passive into the space around the booth.

Electrical Requirements:

Please provide a 20 amp dedicated circuit for the enclosure. Connection is made via a junction box on the located on the roof of the enclosure. The exact location will be shown on project approval drawings, connection to building power is the responsibility of the owner.

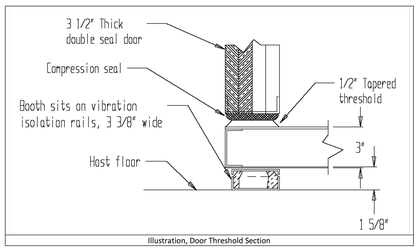
Additional dedicated circuits may be required if additional interior power outlets are selected.

Clearance Requirements:

Please allow a *minimum* 4" clearance between the booth and your host walls. With the ventilation silencer located on the roof, the overall height of the booth is 8'-2 5/8", requiring a minimum ceiling height of 9'-0" for installation. Overall height includes roof mounted variable speed fan and roof soffit extensions.

Pit Recess / Step Up:

Please ensure the host slab is level to within 1/8" over 10' for installation of the sound booth. If the booth is to be recessed in a pit the pit for the audiometric booth must be a minimum 2" larger than the footprint of the booth. The depth must be 4 3/4" (+1/8" / -0") from the bottom of the pit to the top of your finished floor, level to within 1/8" over 10'.



Illustration, Door Threshold Section

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RF ENCLOSURE DETAILS

(COORDINATE INSTALLATION AND REQUIREMENTS WITH VENDOR))

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ELECTRICAL - RISER AND PANEL SCHEDULES

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GOODY CLANCY PROJECT NUMBER: 24006
FILE NAME:
DRAWN: PP | DATE: 01/10/2025
CHECKED: MM, PE | SCALE: NONE
DRAWING NO.:

E200

FIRE ALARM SYMBOLS LIST

CONTROL UNITS (PANELS)

FST	FIRE ALARM STROBE BOOSTER PANEL

SIGNAL INITIATING DEVICE & ACTIVATION SWITCH

F	BUILDING STANDARD MANUAL PULL STATION
S	BUILDING STANDARD CEILING SMOKE DETECTOR
H	BUILDING STANDARD CEILING HEAT DETECTOR
WF	BUILDING STANDARD WATER FLOW SWITCH
TS	BUILDING STANDARD VALVE TAMPER SWITCH

NOTIFICATION APPLIANCES

	BUILDING STANDARD STROBE
F	BUILDING STANDARD COMBINATION HORN/STROBE

ABBREVIATIONS

(ERL)	EXISTING TO BE RELOCATED/RELOCATED TO NEW LOCATION
(ERM)	EXISTING TO BE DISCONNECTED AND REMOVED
(RL)	EXISTING DEVICE RELOCATED
(N)	NEW DEVICE
(E)	EXISTING DEVICE TO REMAIN

LIST OF DRAWINGS

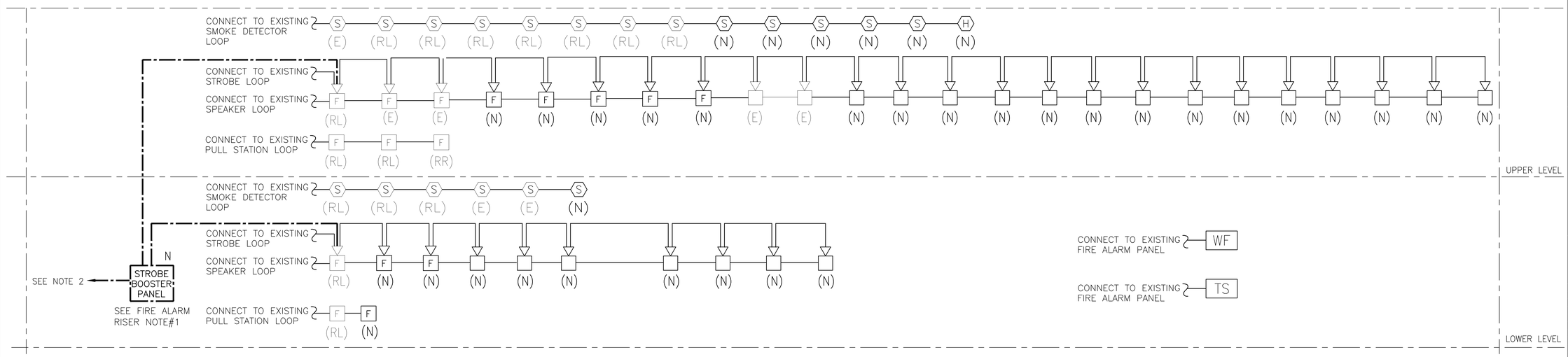
DWG NUMBER	DESCRIPTION
FA001	FIRE ALARM - SYMBOLS, NOTES, RISER AND SEQUENCE OF OPERATIONS/MATRIX
FA101	FIRE ALARM - UPPER & LOWER LEVEL PART PLANS DEMOLITION WORK
FA102	FIRE ALARM - UPPER & LOWER LEVEL PART PLANS NEW WORK

DEMOLITION NOTES

1. ALL FIRE ALARM CIRCUITS IN AREAS NOT PART OF ALTERATIONS SHALL BE MAINTAINED ACTIVE. IF INTERRUPTED DURING DEMOLITION, CIRCUITS SHALL BE REACTIVATED TO RE-ESTABLISH SERVICE. PROVIDE AND INSTALL NEW WIRING AND CONDUIT AS REQUIRED TO RE-ESTABLISH CIRCUITS. COORDINATE IN FIELD.

FIRE ALARM NOTES

1. CONTACT EXISTING SYSTEM VENDOR FOR ALL FIRE ALARM WORK.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE NYS BUILDING CODE AND IN ACCORDANCE WITH NFPA 72.
3. ALL NEW FIRE ALARM DEVICES SHALL BE FULLY COMPATIBLE WITH EXISTING SYSTEM.
4. CONTRACTOR SHALL PAY ALL FILING AND INSPECTION FEES.
5. SEE FLOOR PLANS FOR QUANTITY OF DEVICES, PROVIDE ZONING AS PER FIRE ALARM VENDOR.
6. PROVIDE ALL LIFE SAFETY DEVICES, WIRING AND CONNECTIONS AS PER FIRE ALARM VENDOR.
8. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS, APPROVED WIRE NUTS (APPROVED TEMPERATURE), OR SCOTCH LOCKS.
9. ALL EXISTING LIFE SAFETY SHALL REMAIN IN WORKING CONDITIONS AT ALL TIMES.
10. ALL EXISTING LIFE SAFETY AND WIRING SHALL REMAIN IN SERVICE DURING DEMOLITION WORK. PROVIDE TEMPORARY SUPPORTS FOR EXISTING DEVICES AND WIRING IF SUPPORTING STRUCTURES (WALL, CEILING, ETC.) ARE TO BE DEMOLISHED. WHERE EXISTING DEVICES ARE REQUIRED TO REMAIN OR RELOCATED & IS REMOVED, THESE DEVICES SHALL BE STORED IN A DRY LOCATION TO BE REUSED.
11. WHERE DUCT SMOKE DETECTORS ARE INSTALLED IN HUNG CEILING PROVIDE REMOTE LED INDICATOR BELOW CEILING.
12. ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION.
13. NEW STROBES SHALL BE PROVIDED WITH AUTOMATIC SYNCHRONIZATION.
14. ALL NEW FIRE ALARM CABLES, INCLUDING EXISTING FIRE ALARM CABLES BEING REROUTED SHALL BE SUPPORTED AND INSTALLED TIGHT TO THE UNDERSIDE OF THE DECK AND INSTALLED STRAIGHT AS POSSIBLE, AND IS SUBJECT TO THE ARCHITECT & OWNER'S APPROVAL.
15. ALL FIRE ALARM CABLES SHALL BE INSTALLED IN EMT CONDUIT.
16. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
17. GENERAL CONTRACTOR TO COORDINATE PATHWAY OF ALL CABLING (DATA, FIRE ALARM, BASE BUILDING DEVICE CABLING, ETC.). ALL FIRE ALARM CABLING SHALL BE INSTALLED IN EMT CONDUIT.
18. WHERE EXISTING WIRING IS BEING REUSED, THE CONTRACTOR SHALL TEST INTEGRITY OF THE CABLE TO VERIFY CABLE IS FREE OF ALL DEFECTS. WHERE CABLES ARE DEFECTIVE, REPLACE WITH NEW.
19. WHERE WIRING IS INSTALLED IN AREAS WITH NO CEILING, NEW & EXISTING CABLES SHALL BE INSTALLED IN A NEAT MANNER, COORDINATE CABLE ROUTING WITH GENERAL CONTRACTOR, ARCHITECT & ENGINEER PRIOR TO INSTALLATION. (CONTRACTOR TO INCLUDE ALLOWANCE IN THE BASE BID FOR ADDITIONAL CABLING AS REQUIRED).
20. DISCONNECT & REMOVE ALL FIRE ALARM CABLE NO LONGER IN USE & ABANDON.
21. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, ALL ALARM NOTIFICATION DEVICES, SUPERVISORY SIGNALS POWER SUPPLIES, ETC SHALL BE TESTED IN ACCORDANCE WITH NFPA 72 STANDARDS.
22. SUBMIT A CERTIFIED RECORD OF COMPLETION IN ACCORDANCE WITH NFPA 72
23. ALL FIRE ALARM DEVICES ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. PRIOR TO BID, CONTACT THE CAMPUS FIRE ALARM VENDOR, WILLIAM NUGENT –WILLIAMNUGENT@EVERONSOLUTIONS.COM AND NICHOLAS DELFICO – NICHOLASDELFICO@EVERONSOLUTIONS.COM.
24. ALL WORK ASSOCIATED WITH FIRE ALARM SYSTEM SHALL BE COORDINATED WITH FIRE ALARM VENDOR.
25. ALL FIRE ALARM WORK AND REPROGRAMMING OF FIRE ALARM PANEL SHALL BE PERFORMED BY THE BUILDING FIRE ALARM VENDOR, WILLIAM NUGENT –WILLIAMNUGENT@EVERONSOLUTIONS.COM AND NICHOLAS DELFICO – NICHOLASDELFICO@EVERONSOLUTIONS.COM.



LINETYPE DENOTES ADD ALERNATE SCOPE. PROVIDE SEPARATE PRICE.

FIRE ALARM MODIFICATION RISER DIAGRAM

(NOT TO SCALE)

FIRE ALARM MATRIX/SEQUENCE OF OPERATIONS

1. NEW FIRE ALARM DEVICES SHALL BE PROGRAMMED TO CONFORM WITH THE BUILDING'S EXISTING FIRE ALARM SYSTEM MATRIX AND SEQUENCE OF OPERATIONS. ALL NEW WORK SHALL BE COORDINATED WITH THE BUILDING'S EXISTING FIRE ALARM SYSTEM VENDOR, WILLIAM NUGENT –WILLIAMNUGENT@EVERONSOLUTIONS.COM AND NICHOLAS DELFICO – NICHOLASDELFICO@EVERONSOLUTIONS.COM.

FIRE ALARM RISER NOTES

1. ADD ALTERNATE:

   IF REQUIRED, PROVIDE AND INSTALL NEW STROBE BOOSTER PANEL AND SYNCHRONIZATION MODULES. COORDINATE EXACT REQUIREMENTS AND LOCATION OF BOOSTER PANEL, AND QUANTITY/LOCATION OF MODULES WITH BUILDING FIRE ALARM VENDOR, WILLIAM NUGENT – WILLIAMNUGENT@EVERONSOLUTIONS.COM AND NICHOLAS DELFICO – NICHOLASDELFICO@EVERONSOLUTIONS.COM.

2. ADD ALTERNATE:

   IF STROBE BOOSTER PANEL IS REQUIRED, CONNECT TO 1P-20A CIRCUIT BREAKER IN EXISTING EMERGENCY PANEL ES3. COORDINATE WITH BUILDING FIRE ALARM VENDOR, WILLIAM NUGENT – WILLIAMNUGENT@EVERONSOLUTIONS.COM AND NICHOLAS DELFICO – NICHOLASDELFICO@EVERONSOLUTIONS.COM.

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FIRE ALARM - SYMBOLS, NOTES, RISER AND SEQUENCE OF OPERATIONS/MATRIX

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GOODY CLANCY PROJECT NUMBER: 24006

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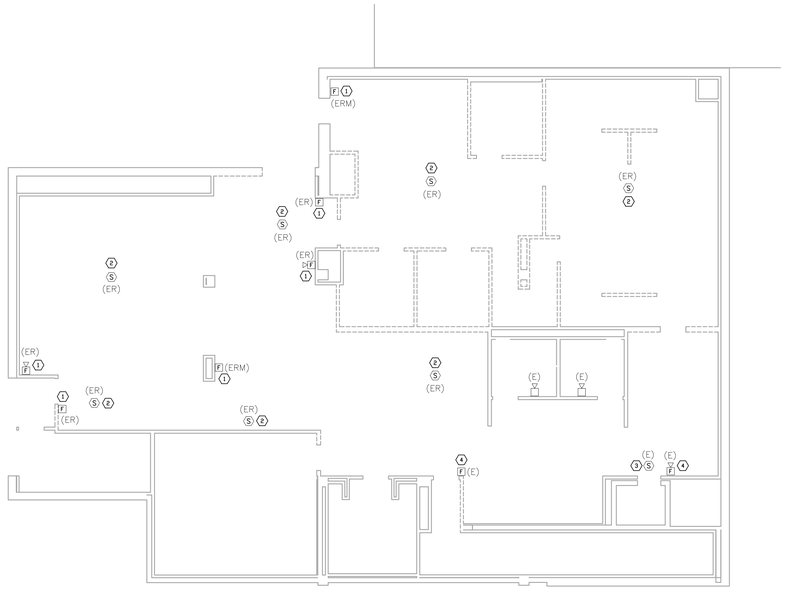
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CHECKED: MM, PE	SCALE: NONE

DRAWING NO.:

FA001

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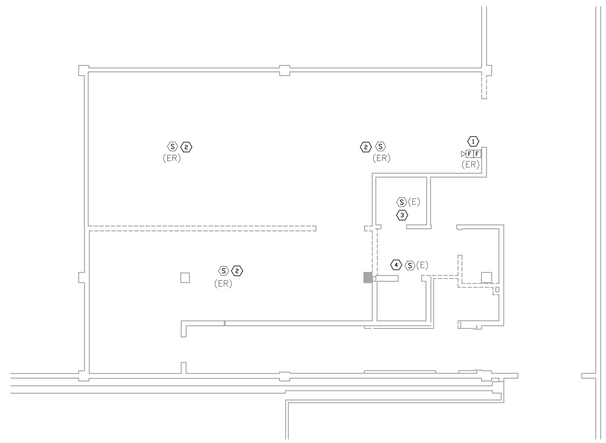
1. REFER TO DRAWING B-FA001 FOR SYMBOLS LIST, NOTES, AND RISER.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONED LOCATIONS OF ALL FIRE ALARM DEVICES.
3. ALL FIRE ALARM WORK SHALL BE COORDINATED WITH THE CAMPUS FIRE ALARM VENDOR.
4. ALL FIRE ALARM WIRING MUST BE ROUTED IN EMT CONDUIT.



2 FIRE ALARM - UPPER LEVEL PART PLAN DEMOLITION
1/8" = 1' 0"

UPPER LEVEL FIRE ALARM DEMO NOTES:

1. DISCONNECT, REMOVE AND RELOCATE EXISTING FIRE ALARM PULL STATION AND AUDIO/VISUAL NOTIFICATION DEVICE AS SHOWN ON NEW WORK PLANS. MODIFY/REMOVE EXISTING WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
2. DISCONNECT, REMOVE AND RELOCATE EXISTING SMOKE DETECTOR AS SHOWN ON NEW WORK PLANS. MODIFY/REMOVE EXISTING WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
3. EXISTING ELEVATOR SMOKE DETECTOR TO REMAIN. MAINTAIN EXISTING WIRING.
4. EXISTING FIRE ALARM DEVICES TO REMAIN. REMOVE AND REINSTALL AS REQUIRED TO ACCOMMODATE NEW WALL FINISHES. MAINTAIN EXISTING WIRING. COORDINATE IN FIELD.



1 FIRE ALARM - LOWER LEVEL PART PLAN DEMOLITION
1/8" = 1' 0"

LOWER LEVEL FIRE ALARM DEMO NOTES:

1. DISCONNECT, REMOVE AND RELOCATE EXISTING FIRE ALARM PULL STATION AND AUDIO/VISUAL NOTIFICATION DEVICE AS SHOWN ON NEW WORK PLANS. MODIFY/REMOVE EXISTING WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
2. DISCONNECT, REMOVE AND RELOCATE EXISTING SMOKE DETECTOR AS SHOWN ON NEW WORK PLANS. MODIFY/REMOVE EXISTING WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
3. EXISTING ELECTRICAL ROOM SMOKE DETECTOR TO REMAIN. MAINTAIN EXISTING WIRING.
4. EXISTING ELEVATOR SMOKE DETECTOR TO REMAIN. MAINTAIN EXISTING WIRING.

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FIRE ALARM - UPPER & LOWER LEVEL PART PLANS DEMOLITION WORK

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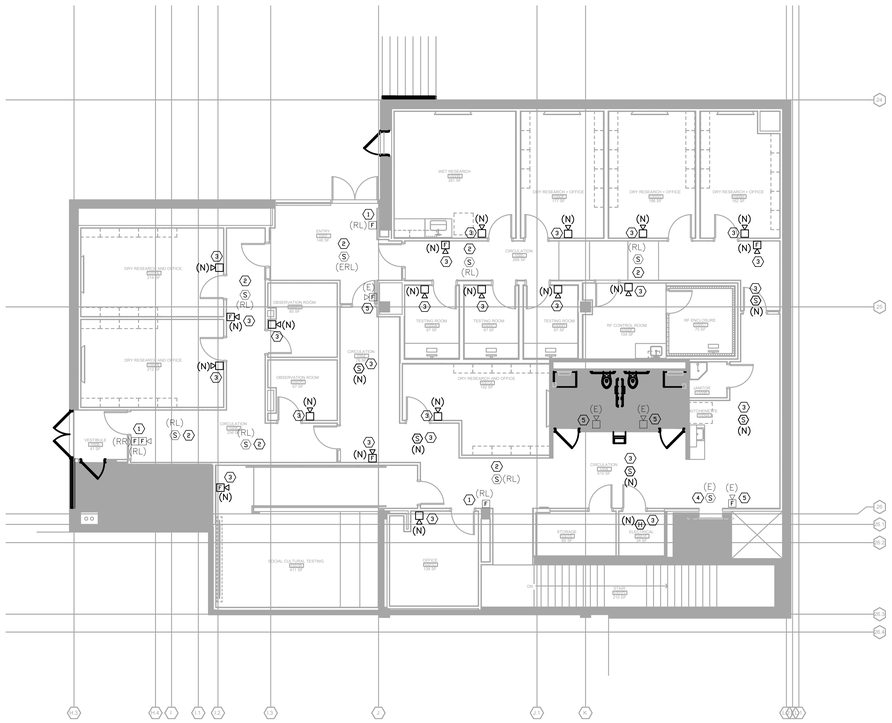
GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN: PP	DATE: 01/10/2025
CHECKED: MM, PE	SCALE: AS NOTED

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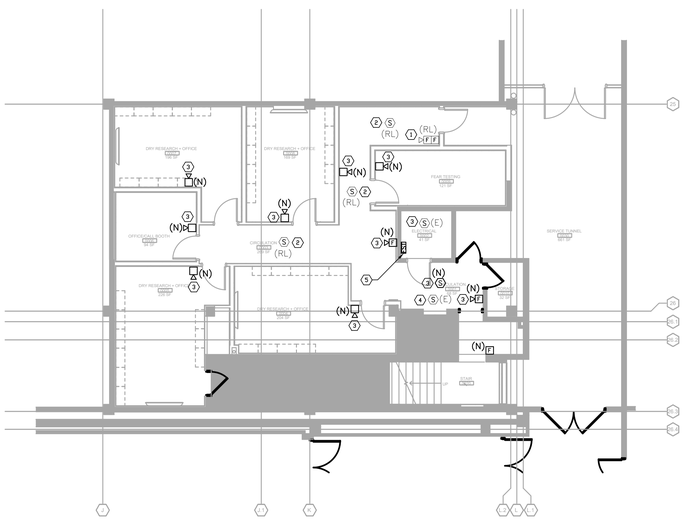
FA101



1 FIRE ALARM - UPPER LEVEL PLAN NEW WORK
1/8" = 1' 0"

UPPER LEVEL FIRE ALARM NEW WORK NOTES:

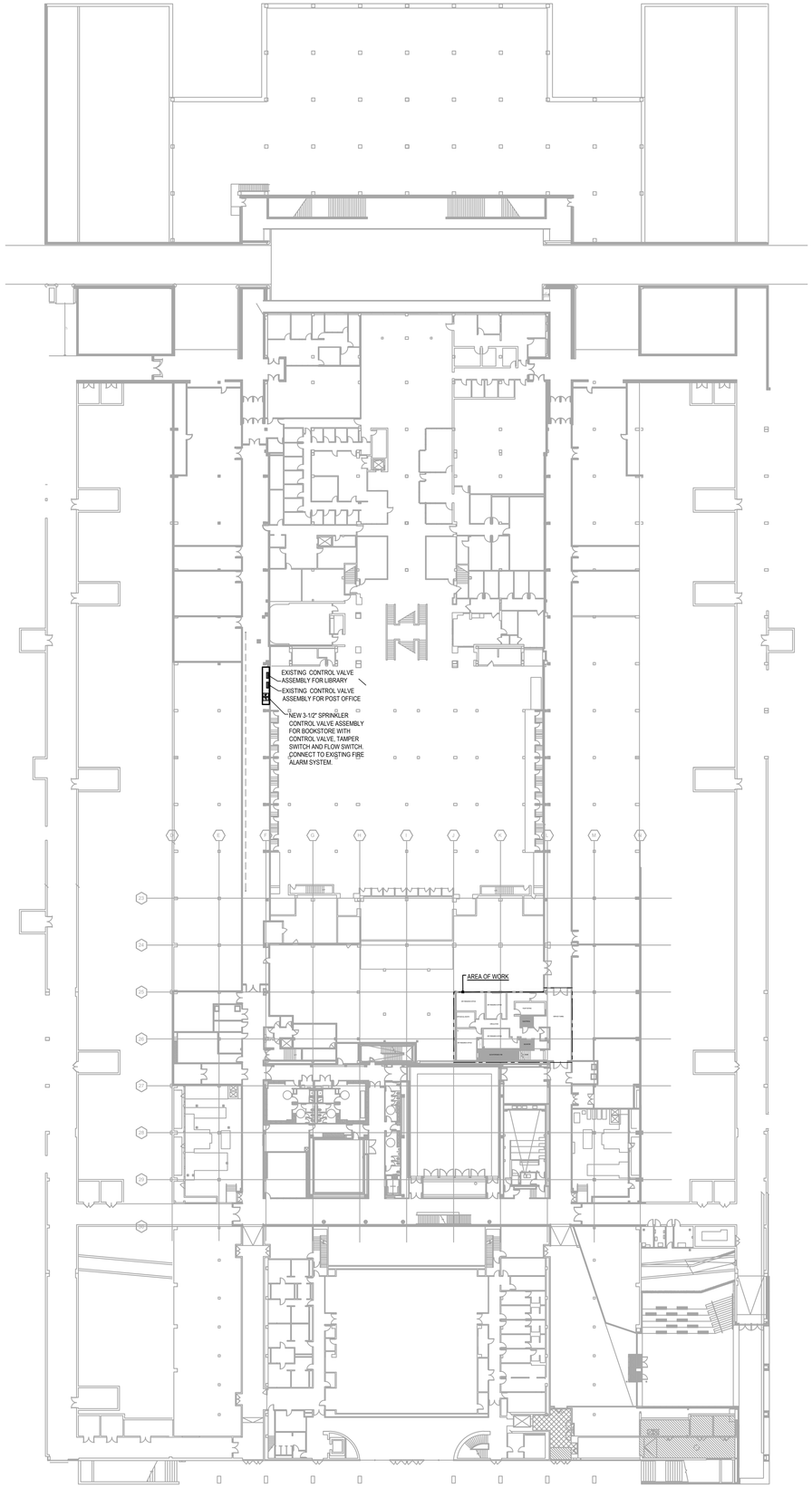
1. RELOCATED EXISTING FIRE ALARM PULL STATION AND AUDIO/VISUAL NOTIFICATION DEVICE. PROVIDE AND INSTALL NEW WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
2. RELOCATED EXISTING SMOKE DETECTOR. PROVIDE AND INSTALL NEW WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
3. NEW CAMPUS STANDARD FIRE ALARM DEVICES. PROVIDE AND INSTALL NEW WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
4. EXISTING ELEVATOR SMOKE DETECTOR TO REMAIN. MAINTAIN EXISTING WIRING.
5. EXISTING FIRE ALARM DEVICES TO REMAIN. REMOVE AND REINSTALL AS REQUIRED TO ACCOMMODATE NEW WALL FINISHES. MAINTAIN EXISTING WIRING. COORDINATE IN FIELD.



2 FIRE ALARM - LOWER LEVEL PART PLAN NEW WORK
1/8" = 1' 0"

LOWER LEVEL FIRE ALARM NEW WORK NOTES:

1. RELOCATED EXISTING FIRE ALARM PULL STATION AND AUDIO/VISUAL NOTIFICATION DEVICE. PROVIDE AND INSTALL NEW WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
2. RELOCATED EXISTING SMOKE DETECTOR. PROVIDE AND INSTALL NEW WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
3. NEW CAMPUS STANDARD FIRE ALARM DEVICES. PROVIDE AND INSTALL NEW WIRING AS REQUIRED. COORDINATE WITH CAMPUS FIRE ALARM VENDOR IN FIELD.
4. EXISTING ELEVATOR SMOKE DETECTOR TO REMAIN. MAINTAIN EXISTING WIRING.
5. PROVIDE AND INSTALL NEW FIRE ALARM STROBE PANEL AND CONNECT TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE 120V EMERGENCY POWER. COORDINATE WITH CAMPUS FIRE ALARM VENDOR.



3 FIRE ALARM - LOWER LEVEL PLAN NEW WORK
Scale: 1/32" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING B-FA001 FOR SYMBOLS LIST, NOTES, AND RISER.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONED LOCATIONS OF ALL FIRE ALARM DEVICES.
3. ALL FIRE ALARM WORK SHALL BE COORDINATED WITH THE CAMPUS FIRE ALARM VENDOR.
4. ALL FIRE ALARM WIRING MUST BE ROUTED IN EMT CONDUIT.

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FIRE ALARM - UPPER & LOWER LEVEL PART PLANS NEW WORK

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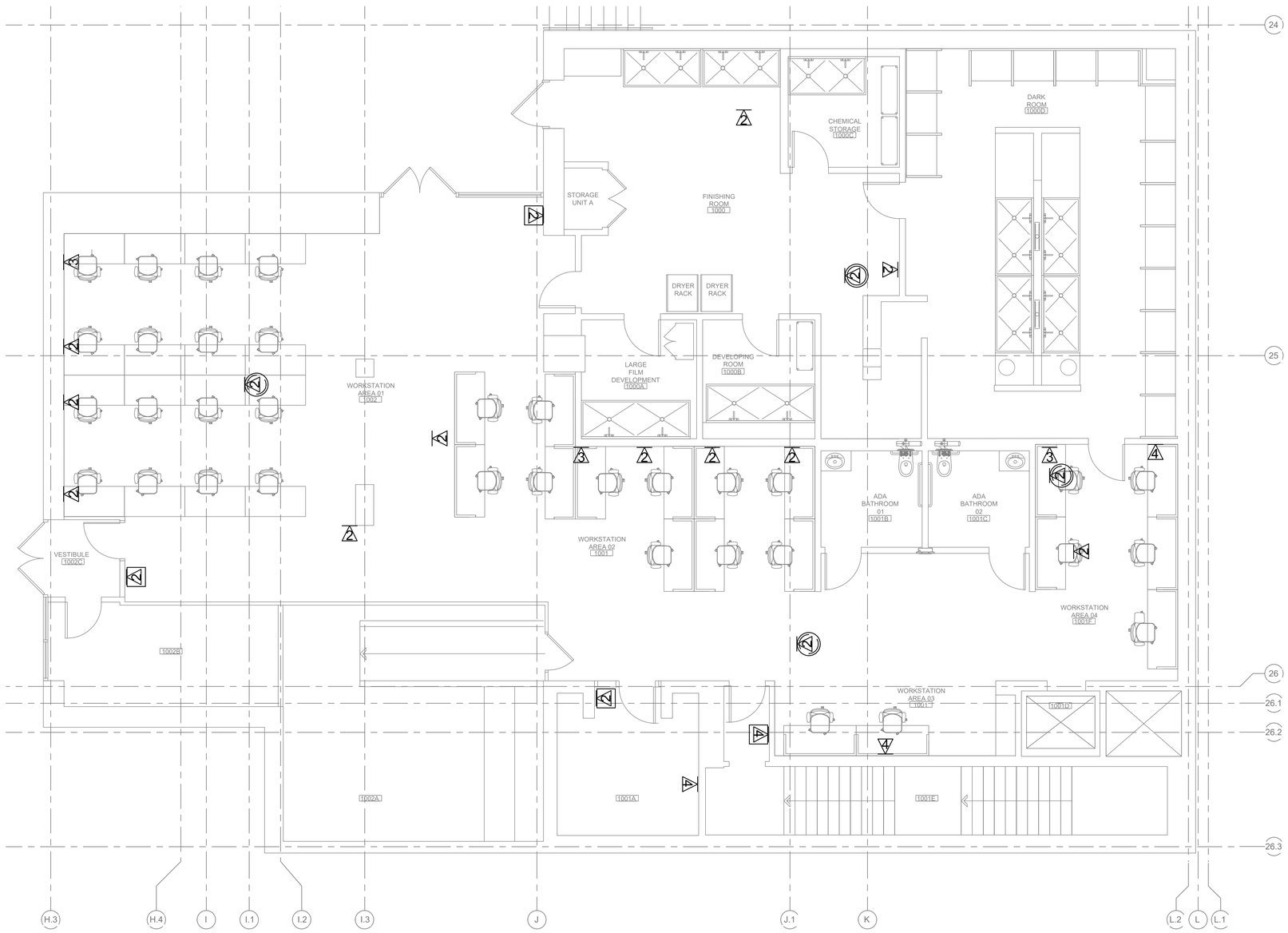
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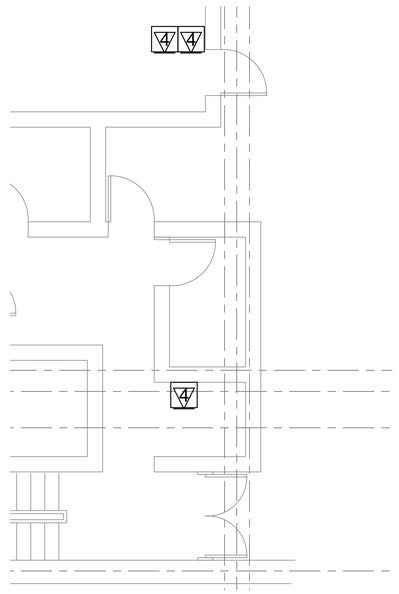
DRAWN: PP	DATE: 01/10/2025
CHECKED: MM, PE	SCALE: AS NOTED

DRAWING NO.:

FA102



1 FIRST FLOOR LOW VOLTAGE REMOVAL PLAN
Scale: 1/4" = 1'-0"



2 LOWER LEVEL LOW VOLTAGE REMOVAL PLAN
Scale: 1/4" = 1'-0"

ELECTRICAL LOW VOLTAGE REMOVAL SYMBOLS

3 OUTLET: WALL

4 OUTLET: IN ENCLOSURE OR FURNITURE

2 OUTLET: WIRELESS ACCESS POINT

DEMOLITION NOTES

1. REMOVE ALL DATA JACK, PLATES
2. REMOVE CABLING IN ITS ENTIRETY FROM JACK LOCATION TO MDF PATCH PANEL
3. AT PATCH PANEL UPON CABLE REMOVAL, REMOVE JACK LABELLING AT PATCH PANEL
4. AT JACK LOCATION, INSTALL FINISHED WHITE BLANK PLATE

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LOW VOLTAGE DEMOLITION PLAN LOWER LEVEL & UPPER LEVEL

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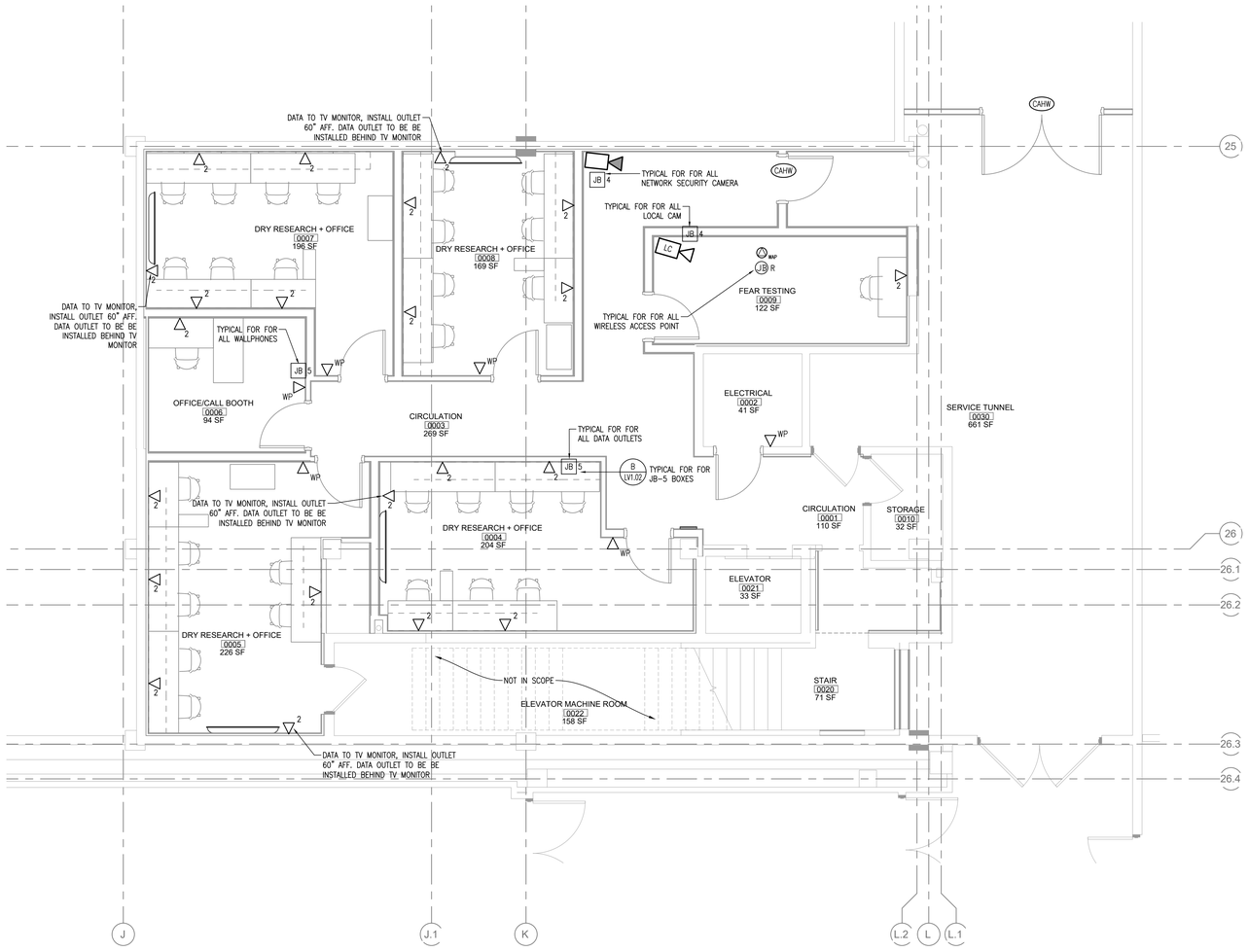
GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN:	JV	DATE:	01/10/2025
CHECKED:	RGM	SCALE:	1/4" = 1'-0"

DRAWING NO.:

LV0.01



1 LOWER LEVEL LOW VOLTAGE NEW PLAN
Scale: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL OUTLET LOCATIONS AND HEIGHTS.
2. ALL CABLING TO BE INSTALLED FROM MDF/IDF FLOOR LOCATION TO INDIVIDUAL JACK, AV, SECURITY LOCATIONS BY OTHERS.
3. SUPPORT ALL CABLES AS REQUIRED BY NEC. USE OF COMMUNICATIONS CABLE SUPPORTS CABLE TRAY TO BE INSTALLED PER NEC, BY OTHERS.
4. FLOOR BOXES, BACKBOXES, SLEEVES AND REQUIRED CONDUITS TO BE INSTALLED PER NEC.
5. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR ALL DEVICE AND FACEPLATE COLORS.
6. ALL CONDUIT RUNS SHALL BE COORDINATED WITH THE ARCHITECTURAL INTENT OF THE DESIGN. CONDUIT FOR DEVICES ON NEW GYPSUM BOARD WALLS SHALL BE CONCEALED. CONDUIT FOR DEVICES ON EXPOSED MASONRY WALLS OR STRUCTURAL CEILINGS SHALL BE RUN EXPOSED AND PAINTED TO MATCH THE WALL COLOR OF WALL OR CEILING. CONDUITS RUN IN EXPOSED CEILINGS SHALL BE PAINTED TO MATCH THE COLOR OF THE CEILING.
7. AS PER NFPA 101 REQUIREMENT, ALL EXIT EGRESS DOORS ARE REQUIRED TO REMAIN OPEN UPON FIRE ALARM SYSTEM ACTIVATION.
8. ADHERENCE TO THE PROJECT SPECIFICATIONS IS REQUIRED TO ENSURE A COMPLETE DATA, A.V. AND SECURITY INSTALLATION.

CONSTRUCTION NOTES

1. ALL CAT-6 CABLE FOR LOCAL CAMERAS IN ROOMS ORIGINATE AT POE SWITCH IN DESIGNATED CLOSET. CABLE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.
2. ALL GENETECH CAMERAS AND EQUIPMENT ORIGINATE FROM MDF LOCATION. CAMERAS TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.
3. ALL TV MONITORS REQUIRED TWO (2) CAT-6 CALBES FROM MDF TO MONITOR LOCATION. CABLE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.
4. FOR DOOR ACCESS CONTROL ALL CAT-6 CABLE TO BE INSTALLED AT HINGE SIDE OF DOOR (CAHW). CABLE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.
5. LOCAL CAMERA SPECIFIC TO OBSERVATION AND TESTING ROOM SHOULD TERMINATE AT A LOCAL DVR. LOCATION BY DEPT. CABLE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.

DEMOLITION NOTES

1. REMOVE ALL EXISTING CABLE FROM JACK TO PATCH PANEL.

ELECTRICAL, AV & LOW VOLTAGE SYMBOLS / LEGEND / ABBREVIATION

- C — CONDUIT
- G — GROUND
- N — DENOTES NEW
- 2 — WALL MOUNTED OUTLET, SUBSCRIPT DENOTES THE NUMBER OF CAT6 CABLES **(BY OTHERS)**
- 2 — CEILING MOUNTED OUTLET, SUBSCRIPT DENOTES THE NUMBER OF CAT6 CABLES **(BY OTHERS)**
- WAP — WIRELESS ACCESS POINT **(BY OTHERS)** ONE CAT6 CABLE
- WP — WALL PHONE **(BY OTHERS)** ONE CAT6 CABLE
- NEW ACCESS CONTROL PANEL **(BY OTHERS)**
- 4 — FLOOR BOX OUTLET
- MULTI-MEDIA JACK **(BY OTHERS)** (1) HDMI CALBE & (2) CAT6E
- DC — DOOR CLOSER
- JB 4 — CEILING J-BOX ABOVE EACH ACCESS CONTROLLED DOOR LOCATION **(BY CONTRACTOR)**
  NOTES:
  1. CAMERA BOX LOCATION TO BE 6" BELOW FINISH CEILING HEIGHT
  2. ALL ACCESS CONTROL BOXES FOR DEVICES TO BE INSTALLED SHALL DETERMINED BY ACCESS CONTROL INSTALLER.
- JB 5 — J-BOX, 4 11/16 METAL BOX TO BE WITH 1" CONDUIT **(BY CONTRACTOR)**
- JB R — J-BOX, 4" ROUND BOX
- TV MONITOR **(BY OTHERS)**
- SCREEN, DRAPER ACCESS V MODEL MATT WHITE XT1000VD, 8'X14' OR APPROVED EQUAL **(BY CONTRACTOR)**
- PROJECTOR **(BY OTHERS)**
- PROJECTOR MOUNT, DYNAVISTA UNIVERSAL MOUNT OR EQUAL **(BY CONTRACTOR)**
- A / M605 — **DETAIL CALL-OUT** DENOTES DETAIL NUMBER OR LETTER, DENOTES DRAWING NUMBER

SYMBOLS / LEGEND - DOOR SECURITY PROPOSED & CAMERAS

- ETR — EXISTING HARDWARE TO REMAIN
- CAHW — NEW CARD ACCESS HARDWARE (HARDWIRED)
- PB — PANIC BAR
- REX — REQUEST TO EXIT
- MAG — MAG
- NETWORK SECURITY CAMERA GENETECH **(BY OTHERS)**
- LC — LOCAL CAM **(BY OTHERS)** LOCAL NETWORK CAMERA TO BE CABLED TO POE SWITCH, DVR AND MONITOR LOCATION BY COLLEGE

"TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT ARE IN CONFORMANCE WITH THE BUILDING CODE OF NEW YORK STATE AND OTHER APPLICABLE FEDERAL AND STATE LAWS AND REGULATION, ALL AS CURRENTLY AMENDED."

REGINA G. MARENGO PE.		664463	11/27/2024
NAME	SIGNATURE	NYS REGISTRATION NO.	DATE

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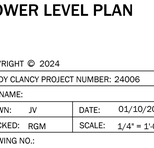
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LOW VOLTAGE LOWER LEVEL PLAN

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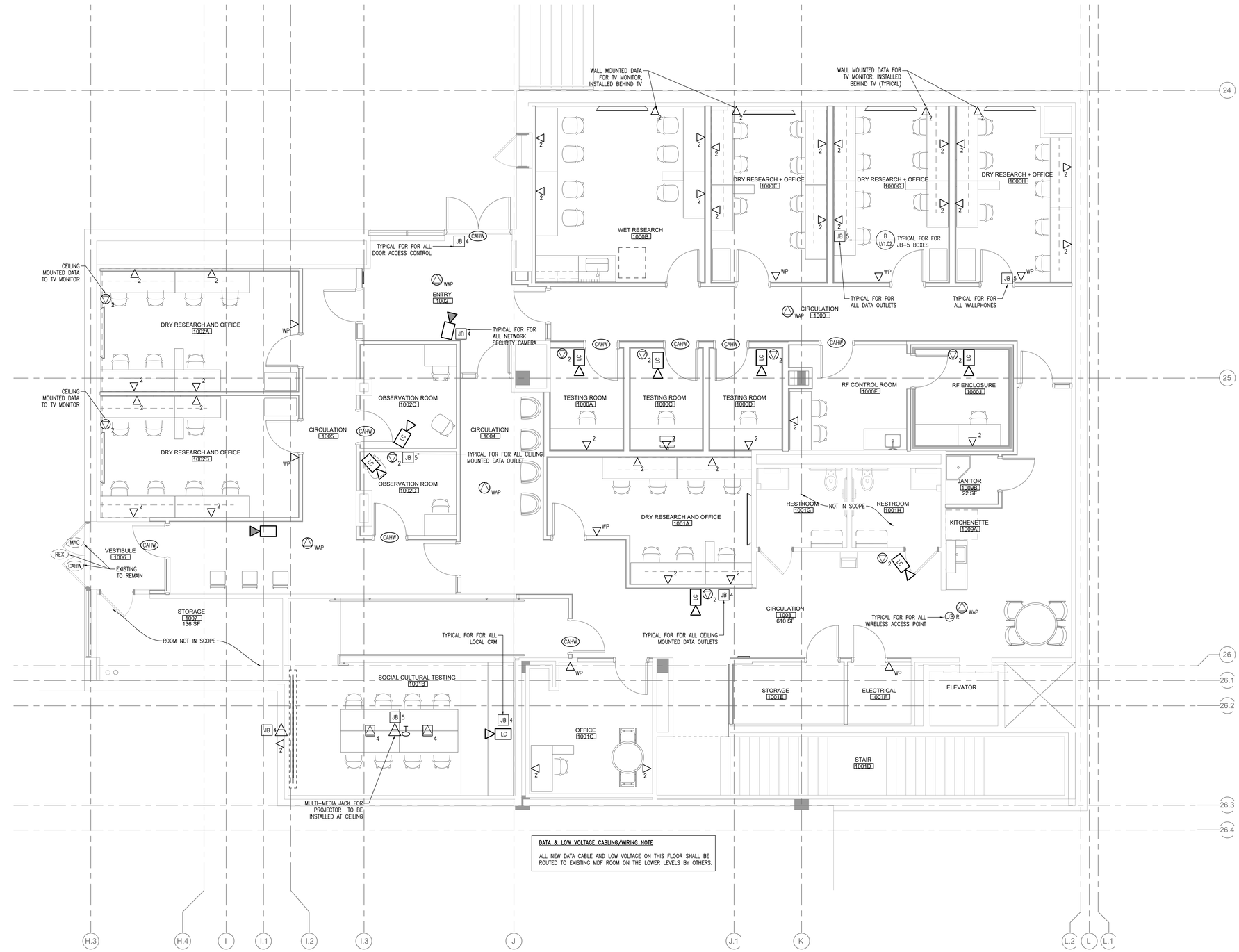
GOODY CLANCY PROJECT NUMBER: 24006

FILE NAME:

DRAWN:	JV	DATE:	01/10/2025
CHECKED:	RGM	SCALE:	1/4" = 1'-0"

DRAWING NO.:

LV1.00



1 FIRST FLOOR LOW VOLTAGE NEW PLAN
Scale: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL OUTLET LOCATIONS AND HEIGHTS.
2. ALL CABLING TO BE INSTALLED FROM MDF/IDF FLOOR LOCATION TO INDIVIDUAL JACK, AV, SECURITY LOCATIONS BY OTHERS.
3. SUPPORT ALL CABLES AS REQUIRED BY NEC. USE OF COMMUNICATIONS CABLE SUPPORTS CABLE TRAY TO BE INSTALLED PER NEC, BY OTHERS.
4. FLOOR BOXES, BACKBOXES, SLEEVES AND REQUIRED CONDUITS TO BE INSTALLED PER NEC.
5. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR ALL DEVICE AND FACEPLATE COLORS.
6. ALL CONDUIT RUNS SHALL BE COORDINATED WITH THE ARCHITECTURAL INTENT OF THE DESIGN. CONDUIT FOR DEVICES ON NEW GYPSUM BOARD WALLS SHALL BE CONCEALED. CONDUIT FOR DEVICES ON EXPOSED MASONRY WALLS OR STRUCTURAL CEILINGS SHALL BE RUN EXPOSED AND PAINTED TO MATCH THE WALL COLOR OF WALL OR CEILING. CONDUITS RUN IN EXPOSED CEILINGS SHALL BE PAINTED TO MATCH THE COLOR OF THE CEILING.
7. AS PER NFPA 101 REQUIREMENT, ALL EXIT EGRESS DOORS ARE REQUIRED TO REMAIN OPEN UPON FIRE ALARM SYSTEM ACTIVATION.
8. ADHERENCE TO THE PROJECT SPECIFICATIONS IS REQUIRED TO ENSURE A COMPLETE DATA, A.V. AND SECURITY INSTALLATION.
9. JB4 BOX IS FOR ALL ACCESS CONTROL DEVICES TO BE INSTALLED ABOVE EACH DOOR REQUIRING ACCESS CONTROL.

CONSTRUCTION NOTES

1. ALL CAT-6 CABLE FOR LOCAL CAMERAS IN ROOMS ORIGINATE AT POE SWITCH IN DESIGNATED CLOSET. CABLE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.
2. ALL GENETECH CAMERAS AND EQUIPMENT ORIGINATE FROM MDF LOCATION. CAMERAS TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.
3. ALL TV MONITORS REQUIRED TWO (2) CAT-6 CALBES FROM MDF TO MONITOR LOCATION. CABLE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.
4. FOR DOOR ACCESS CONTROL ALL CAT-6 CABLE TO BE INSTALLED AT HINGE SIDE OF DOOR (CAHW). CABLE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.
5. LOCAL CAMERA SPECIFIC TO OBSERVATION AND TESTING ROOM SHOULD TERMINATE AT A LOCAL DVR. LOCATION BY DEPT. CABLE TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE ROUTE OF CONDUIT PATHS.

DEMOLITION NOTES

1. REMOVE ALL EXISTING CABLE FROM JACK TO PATCH PANEL.

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- N — DENOTES NEW
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- CEILING MOUNTED OUTLET, SUBSCRIPT DENOTES THE NUMBER OF CAT6 CABLES **(BY OTHERS)**
- WAP — WIRELESS ACCESS POINT **(BY OTHERS)** ONE CAT6 CABLE
- WP — WALL PHONE **(BY OTHERS)** ONE CAT6 CABLE
- NEW ACCESS CONTROL PANEL **(BY OTHERS)**
- FLOOR BOX OUTLET
- MULTI-MEDIA JACK **(BY OTHERS)** (1) HDMI CALBE & (2) CAT6E
- DC — DOOR CLOSER
- JB — CEILING J-BOX ABOVE EACH ACCESS CONTROLLED DOOR LOCATION **(BY CONTRACTOR)**
  NOTES:
  1. CAMERA BOX LOCATION TO BE 6" BELOW FINISH CEILING HEIGHT
  2. ALL ACCESS CONTROL BOXES FOR DEVICES TO BE INSTALLED SHALL DETERMINED BY ACCESS CONTROL INSTALLER.
- JB — J-BOX, 4 11/16" METAL BOX TO BE WITH 1" CONDUIT **(BY CONTRACTOR)**
- JB — J-BOX, 4" ROUND BOX
- TV MONITOR **(BY OTHERS)**
- SCREEN, DRAPER ACCESS V MODEL MATT WHITE XT1000VD, 8'X14' OR APPROVED EQUAL **(BY CONTRACTOR)**
- PROJECTOR **(BY OTHERS)**
- PROJECTOR MOUNT, DYNAVISTA UNIVERSAL MOUNT OR EQUAL **(BY CONTRACTOR)**
- DETAIL CALL-OUT — DENOTES DETAIL NUMBER OR LETTER; DENOTES DRAWING NUMBER

SYMBOLS / LEGEND - DOOR SECURITY PROPOSED & CAMERAS

- ETR — EXISTING HARDWARE TO REMAIN
- CAHW — NEW CARD ACCESS HARDWARE (HARDWIRED)
- PB — PANIC BAR
- REX — REQUEST TO EXIT
- MAG — MAG
- NETWORK SECURITY CAMERA GENETECH **(BY OTHERS)**
- LC — LOCAL CAM **(BY OTHERS)** LOCAL NETWORK CAMERA TO BE CABLED TO POE SWITCH, DVR AND MONITOR LOCATION BY COLLEGE

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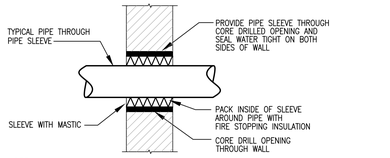
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DRAWN: JV | DATE: 01/10/2025

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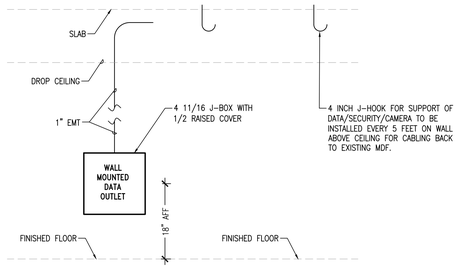
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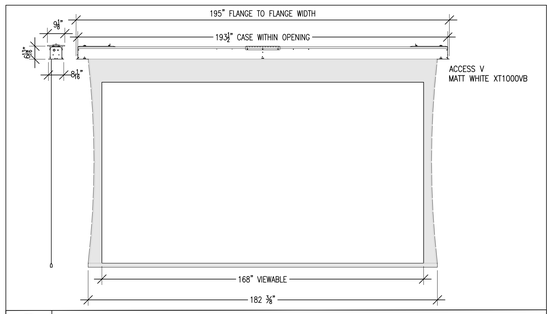


NOTE:
FOR PIPE SIZES THROUGH 1-1/2", PROVIDE SEPARATE SLEEVE FOR EACH PIPE. FOR PIPE SIZES UNDER 1-1/2", MULTIPLE PIPES MAY PENETRATE WALL THROUGH A COMMON SLEEVE – SEAL SPACE BETWEEN MULTIPLE PIPES WATER TIGHT WITH MASTIC AND PACK SPACE BETWEEN PIPES WITH FIRE STOPPING INSULATION.
VAPOR LINE SHOULD BE INSULATED WITH GLUE TIGHT.

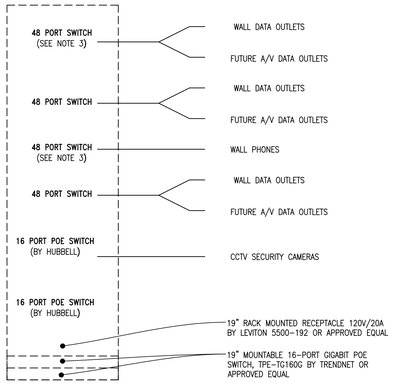
A PIPE PENETRATION DETAIL FOR INTERIOR WALLS
NOT TO SCALE



B WALL MOUNTED DATA OUTLET TYPICAL DETAIL
NOT TO SCALE

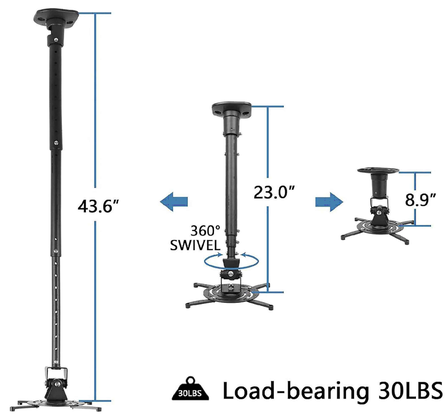


C PROJECTOR SCREEN MOUNTING DETAIL
NOT TO SCALE



NOTES:
1. ALL PATHWAY, CONDUCTOR, TESTING OF CONDUCTOR, AND TERMINATIONS: (CFCI).
2. RACKS: (CFCI) – CONTRACTOR TO COORDINATE WITH CONSULTANT AND CAMPUS TO ENSURE COMPATIBILITY FOR DEPTH, CLEARANCES AND FUTURE EXPANSION.
3. RACK MOUNTED PATCH PANELS:(CFCI).
   ACCEPTABLE MANUFACTURER:
   A. HUBBEL
   B. PANDUIT
   C. LEVITON.
4. RACK MOUNTED EXTREME NETWORK SWITCHES: (OFOI).
5. RACK MOUNTED EATON POWERWARE UPS: (OFCI) – CONTRACTOR TO COORDINATE WITH CONSULTANT AND CAMPUS FOR COMPATIBILITY WITH RACK AND POWER.
6. APPURTENANCES AND POWER: CFCI.
7. ALL PUNCH DOWNS: BY CONTRACTOR.
8. PATCH CABLES: (CFOI) – CONNECTION FROM PATCH PANEL TO NETWORK SWITCH VIA PATCH CABLING BY CAMPUS.
9. PORT ACTIVATION: BY CAMPUS – CONTRACTOR TO PROVIDE MAC ADDRESSES TO CAMPUS SO DEVICES CAN BE ASSIGNED IP ADDRESSES.
10. IDENTIFICATION AND LABELING AT EACH END VIA LABEL MAKER: BY CONTRACTOR.
11. WIRELESS APS: (OFCI)
12. VOIP PHONES: (OFOI)

D LOCAL AREA NETWORK (LAN) DETAIL - 1
NOT TO SCALE



E PROJECTOR MOUNT DETAIL
NOT TO SCALE

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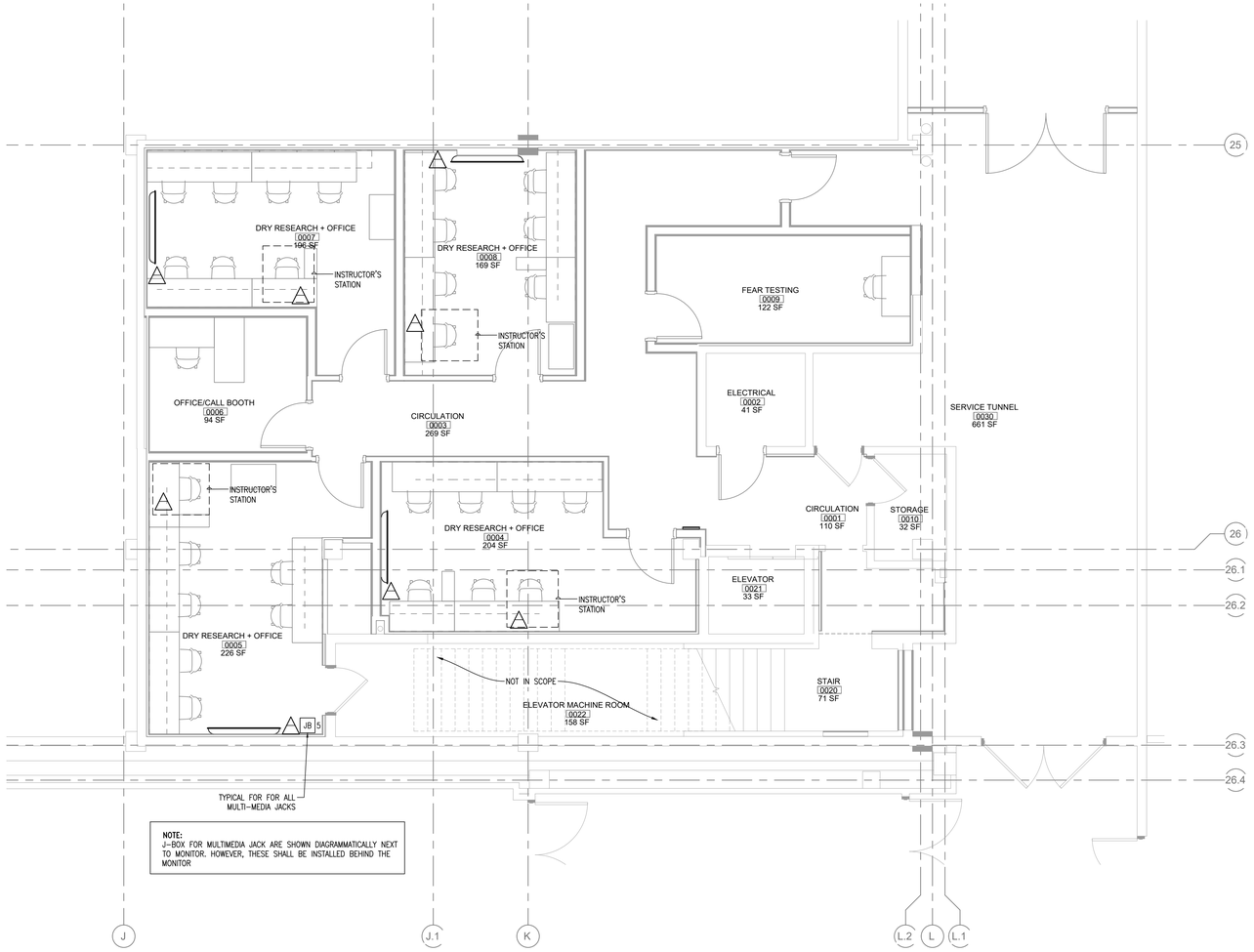
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LV1.02



NOTE:
J-BOX FOR MULTIMEDIA JACK ARE SHOWN DIAGRAMMATICALLY NEXT TO MONITOR. HOWEVER, THESE SHALL BE INSTALLED BEHIND THE MONITOR

1 LOWER LEVEL AUDIO VISUAL NEW PLAN
Scale: 1/4" = 1'-0"

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  M605 — DENOTES DRAWING NUMBER

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LOWER LEVEL FLOOR PLAN - AV CONDUIT & BOXES

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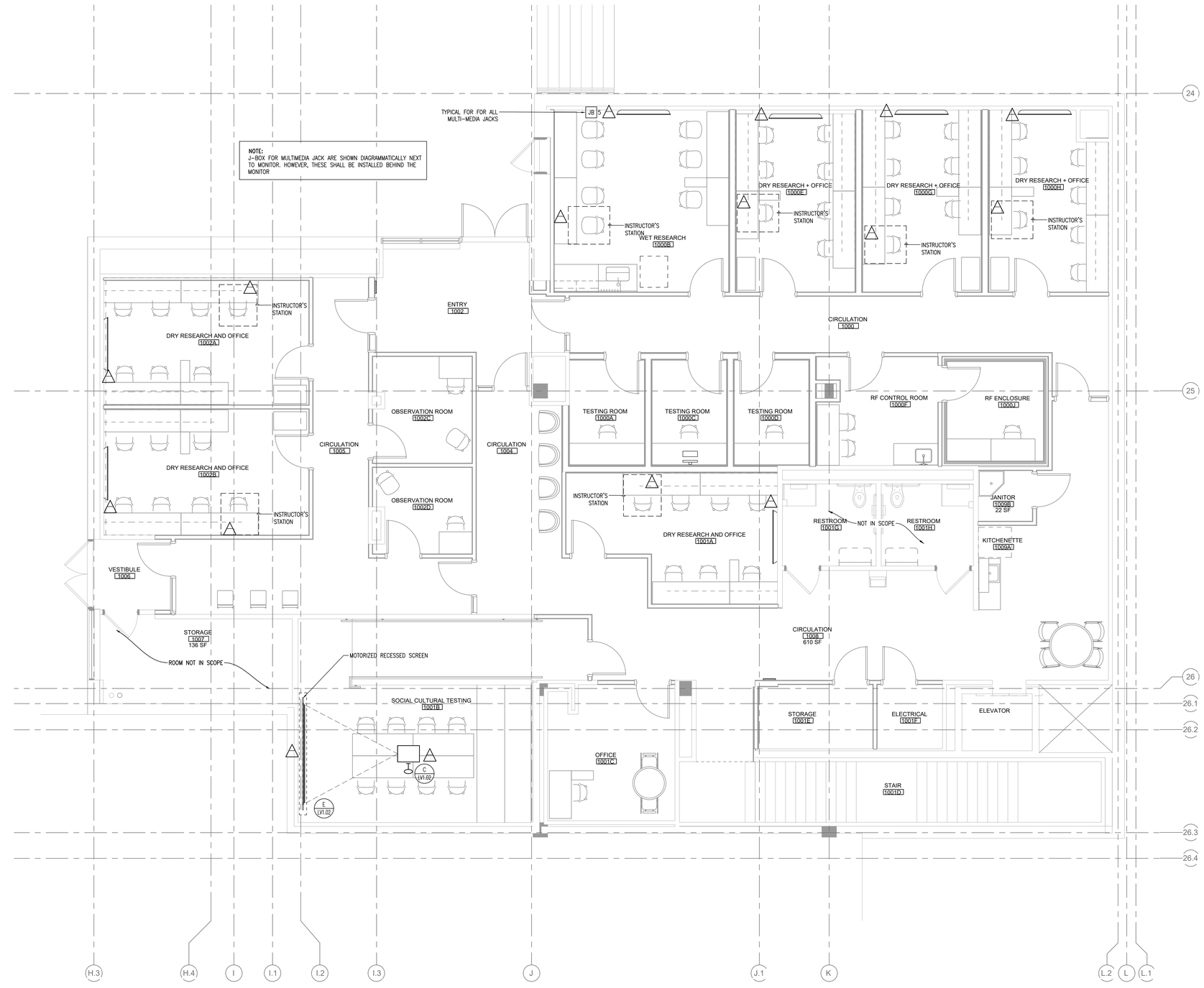
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DRAWING NO.:

AV1.00



1 FIRST FLOOR LOW VOLTAGE NEW PLAN
Scale: 1/4" = 1'-0"

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UPPER LEVEL FLOOR PLAN AV CONDUIT, BOXES, PROTECTOR MOUNT & SCREEN

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