CHEM LAB RENOVATIONS | SCIENCE INNOVATION CENTER

WESTMORELAND COUNTY COMMUNITY COLLEGE

161 COMMUNITY COLLEGE DRIVE YOUNGWOOD, WESTMORELAND COUNTY, PA, 15697

DRAWING INDEX - VOLUME 1

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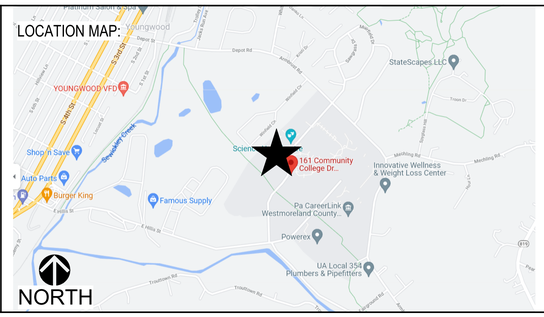
LOCATION MAP:



PROJECT / CLIENT INFO:

PROJECT ADDRESS:
161 COMMUNITY COLLEGE DRIVE
YOUNGWOOD, PA, 15697

CLIENT INFO:
WESTMORELAND COUNTY COMMUNITY COLLEGE
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YOUNGWOOD, PA, 15697

REVISIONS

DRAW COLLECTIVE

CHEM LAB RENOVATIONS | SCIENCE INNOVATION CENTER
WESTMORELAND COUNTY COMMUNITY COLLEGE

COVER SHEET

CS100

Proj No. 21-U04-01
Issue Date 01/20/2025

CODE - BUILDING SUMMARY

BUILDING CODE ANALYSIS / SUMMARY

GOVERNING CODES
PENNSYLVANIA UNIFORM CONSTRUCTION CODE (PA UCC)
INTERNATIONAL EXISTING BUILDING CODE - 2018 EDITION (IEBC-2018)
INTERNATIONAL BUILDING CODE - 2018 EDITION (IBC-2018)
INTERNATIONAL FIRE CODE - 2018 EDITION (IFC-2018) - WHERE REFERENCED
ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - 2009 EDITION (ICC A117.1-2009)

BUILDING / WORK AREA INFORMATION
WORK AREA USE AND OCCUPANCY CLASSIFICATION: BUSINESS GROUP B
TYPE OF CONSTRUCTION - IIB
AUTOMATIC SPRINKLER SYSTEMS: FULL COVERAGE IN BUILDING - NFPA 13, PER ORIGINAL 1992 DRAWINGS
FIRE ALARM AND DETECTION SYSTEMS: THROUGHOUT BUILDING

EXISTING BUILDING CODE (IEBC) ANALYSIS OF ALTERATIONS:
SEE PLANS THIS SHEET FOR CLASSIFICATION OF WORK AND WORK AREAS
NO CHANGE OF OCCUPANCY OR USE
NO ADDITIONS OR CHANGES TO BUILDING AREA
NOT A RELOCATED BUILDING

IEBC CHAPTER CHAPTER HEADING

3 PROVISIONS FOR ALL COMPLIANCE METHODS
305 ACCESSIBILITY FOR EXISTING BUILDINGS
305.7 ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION. WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA SHALL INCLUDE TOILET FACILITIES AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION.

SEE THE PLAN FOR THE ACCESSIBLE ROUTE LOCATIONS AND THE EXISTING ACCESSIBLE TOILET AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION.

4 REPAIRS
403.1 REPAIRS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED

404.1 REPAIRS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED FOR THE MEANS OF EGRESS

6 CLASSIFICATION OF WORK
SEE PLAN FOR AREAS WITH ALTERATIONS AND CLASSIFICATION OF WORK

602.1 LEVEL 1 ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE.

603.1 LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIRMATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION IF ANY EQUIPMENT.

604.1 WORK AREA DOES NOT EXCEED 50% OF THE BUILDING AREA; NO LEVEL 3 ALTERATIONS

7 ALTERATIONS - LEVEL 1
702.1 ALL NEWLY INSTALLED INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH CHAPTER 8 OF THE INTERNATIONAL BUILDING CODE.

703.1 ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.

704.1 ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED FOR THE MEANS OF EGRESS.

8 ALTERATIONS - LEVEL 2
801.2 IN ADDITION TO THE REQUIREMENTS OF THIS CHAPTER, ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 7.

802.4 THE INTERIOR FINISH OF WALLS AND CEILINGS IN EXITS AND CORRIDORS AND IN WORK AREA SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

803.1 THE REQUIREMENTS OF THIS SECTION SHALL BE LIMITED TO WORK AREAS IN WHICH LEVEL 2 ALTERATIONS ARE BEING PERFORMED, AND WHERE SPECIFIED THEY SHALL APPLY THROUGHOUT THE FLOOR ON WHICH THE WORK AREAS ARE LOCATED OR OTHERWISE BEYOND THE WORK AREA.

805.8.1MEANS OF EGRESS IN ALL WORK AREAS SHALL BE PROVIDED WITH EXIT SIGNS IN ACCORDANCE WITH THE IBC

810 LEVEL 2 ALTERATIONS TO EXISTING BUILDINGS OR STRUCTURES ARE PERMITTED WITHOUT REQUIRING THE ENTIRE BUILDING OR STRUCTURE TO COMPLY WITH THE ENERGY REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE. THE ALTERATIONS SHALL CONFORM TO THE ENERGY REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE AS THEY RELATE TO NEW CONSTRUCTION ONLY.

10 CHANGE OF OCCUPANCY
NO CHANGE OF OCCUPANCY

BUILDING CODE (IBC) ANALYSIS

IBC CHAPTERCHAPTER HEADING

3 USE AND OCCUPANCY CLASSIFICATION
304.1 BUSINESS GROUP B - EDUCATIONAL OCCUPANCIES FOR STUDENTS ABOVE THE 12TH GRADE

4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY
HIGHER EDUCATION LABORATORIES COMPLYING WITH SECTION 428 SHALL BE PERMITTED TO EXCEED THE MAXIMUM ALLOWABLE QUANTITIES OF HAZARDOUS MATERIALS SET FORTH IN TABLES 307.1(1) AND 307.1(2) WITHOUT REQUIRING CLASSIFICATION AS A GROUP H OCCUPANCY. ENTIRE RENOVATED SUITE IS CLASSIFIED AS A SINGLE HIGHER EDUCATION LABORATORY SUITE (NO INTERNAL SEPARATIONS) AND THE QUANTITIES SET FORTH IN TABLES 307.1(1) AND 307.1(2) WILL NOT BE EXCEEDED WITHIN THE LABORATORY SUITE.

A HAZARDOUS MATERIALS INVENTORY STATEMENT HAS BEEN PREPARED FOR THE ANTICIPATED USE OF THE RENOVATED SUITE.

5 GENERAL BUILDING HEIGHTS AND AREAS
NO CHANGE TO EXISTING BUILDING HEIGHT OR AREA

6 TYPE OF CONSTRUCTION
TYPE IIB CONSTRUCTION

TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

PRIMARY STRUCTURAL FRAME:	0 HRS.
BEARING WALLS - EXTERIOR:	0 HRS.
BEARING WALLS - INTERIOR:	0 HRS.
NONBEARING WALLS AND PARTITIONS - EXTERIOR:	0 HRS.
NONBEARING WALLS AND PARTITIONS - INTERIOR:	0 HRS.
FLOOR CONSTRUCTION AND SECONDARY MEMBERS:	0 HRS.
ROOF CONSTRUCTION AND SECONDARY MEMBERS:	0 HRS.

7 FIRE AND SMOKE PROTECTION FEATURES

707 FIRE BARRIERS	
- AT SEPARATION OF LABORATORY AND NON-LABORATORY AREAS:	1 HR.
- AT EXIT ENCLOSURES:	1 HR.
- AT EXIT PASSAGEWAYS:	1 HR.
- AT HORIZONTAL EXIT:	2 HRS.
- FIRE AREA SEPARATION:	2 HRS.
708 FIRE PARTITIONS:	1 HR.
713.4 SHAFT ENCLOSURES:	1 HR. (LESS THAN 4 STORIES)
716 OPENING PROTECTIVES: PER TABLE 716.1(2):	
- AT FIRE WALLS:	1 1/2 HR.
- AT OTHER 2 HR. RATED WALLS:	1 1/2 HR.
- AT 1HR FIRE BARRIERS:	1 HR.
- AT EXIT ENCLOSURES:	1 HR.
- AT CORRIDOR WALLS:	1/3 HR. (WHERE WALLS ARE RATED)

BUILDING CODE (IBC) ANALYSIS

IBC CHAPTERCHAPTER HEADING

8 INTERIOR FINISHES
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE DEVELOPED INDEXES.

CLASS A: FLAME SPREAD INDEX: 0-25; SMOKE DEVELOPED INDEX: 0-450
CLASS B: FLAME SPREAD INDEX: 26-75; SMOKE DEVELOPED INDEX: 0-450
CLASS C: FLAME SPREAD INDEX: 76-200; SMOKE DEVELOPED INDEX: 0-450

TABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

	GROUP B - SPRINKLERED
EXIT ENCLOSURES AND PASSAGEWAYS:	B
CORRIDORS:	C
ROOMS AND ENCLOSED SPACES:	C

9 FIRE PROTECTION SYSTEMS
903.1 AUTOMATIC SPRINKLER SYSTEMS SHALL COMPLY WITH THE SECTION

906.1 PORTABLE FIRE EXTINGUISHERS REQUIRED IN GROUP B OCCUPANCY

906.1 PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ALL OF THE FOLLOWING LOCATIONS:
1. IN GROUP B OCCUPANCIES
3. IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED, OR DISPENSED
6. SPECIAL HAZARD AREAS, INCLUDING LABORATORIES

TABLE 906.3.1
CLASS 2-A FIRE EXTINGUISHERS REQUIRED PER 11,250 SF MAX. AND WITHIN A 75' MAX. TRAVEL DISTANCE

907.2.2 A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP B OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXIST: 1. THE COMBINED GROUP B OCCUPANT LOAD OF ALL FLOORS IS 500 OR MORE.

10 MEANS OF EGRESS
1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT - TABLE 1004.5
(NOTE: NO CHANGE TO OCCUPANCY, AREAS, OR OCCUPANT LOAD)

BUILDING CODE (IBC) ANALYSIS

IBC CHAPTERCHAPTER HEADING

10 MEANS OF EGRESS (CONTINUED)

FIRST FLOOR RENOVATED SPACES

EXISTING TO REMAIN BUSINESS GROUP B SPACES

#3308 INORGANIC CHEMISTRY LAB: 1,218 SF @ 50 SF / OCCUPANT =	25 OCCUPANTS
#3400 INORGANIC CHEMISTRY LAB: 1,228 SF @ 50 SF / OCCUPANT =	25 OCCUPANTS
#3401 ORGANIC CHEMISTRY LAB: 1,262 SF @ 50 SF / OCCUPANT =	26 OCCUPANTS
#3402 ORGANIC CHEMISTRY STORAGE: 521 SF @ 300 SF / OCCUPANT =	2 OCCUPANTS
#3403 INSTRUMENT ROOM: 561 SF @ 50 SF / OCCUPANCY =	12 OCCUPANTS
#3404 INORGANIC CHEMISTRY LAB STORAGE: 668 SF @ 300 SF / OCCUPANT =	3 OCCUPANTS
TOTAL FIRST FLOOR RENOVATED SPACES OCCUPANT LOAD:	**93 OCCUPANTS**

1005.3 MINIMUM REQUIRED EGRESS WIDTH:
-STAIRWAYS: 0.3" PER OCCUPANT
-DOORS, RAMPS, AISLES:0.2" PER OCCUPANT

1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
NOTE: NO CHANGES TO TYPE, NUMBER, WIDTH, OR CAPACITY OF EXISTING EXITS

1008.2.1 THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE (11 LUX) AT THE WALKING SURFACE.

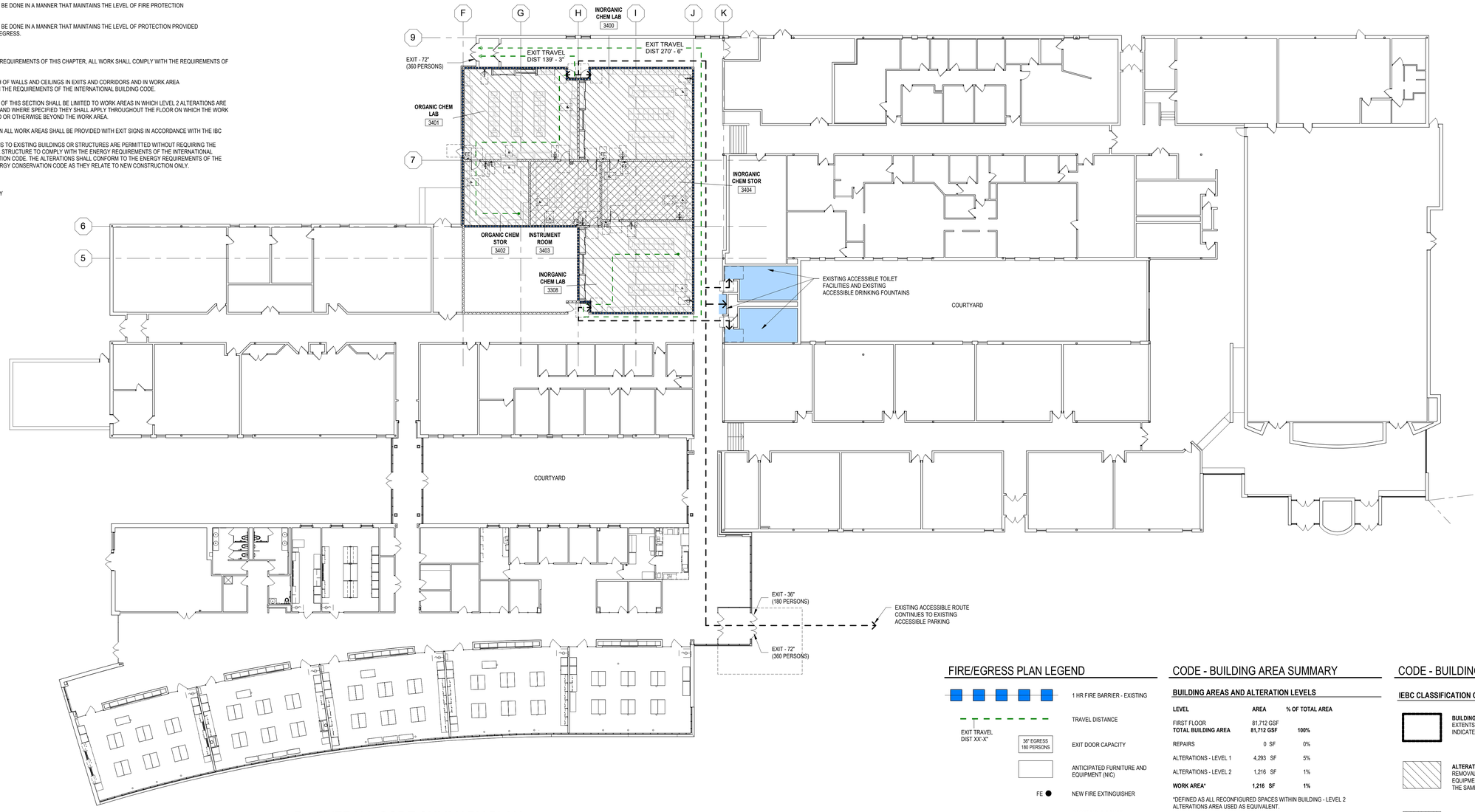
1009.1 ACCESSIBLE SPACES SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS. PER EXCEPTION 1, ACCESSIBLE MEANS OF EGRESS ARE NOT REQUIRED IN EXISTING BUILDINGS.

1017.2 EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2 FOR TYPE 'B' OCCUPANCIES: 300' WITH SPRINKLER SYSTEM

1020.1 CORRIDOR FIRE RESISTANCE RATING PER TABLE 1020.1 FOR TYPE 'B' OCCUPANCY WITH AN OCCUPANT LOAD OF GREATER THAN 30: 1 HOUR WITHOUT SPRINKLER SYSTEM, 0 HOURS WITH SPRINKLER SYSTEM

11 ACCESSIBILITY
1102.1 DESIGN - BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO E ACCESSIBLE IN ACCORDANCE WITH THIS CODE AND IIC A117.1

17 STRUCTURAL TESTS AND INSPECTIONS
NONE



1 BC101 OVERALL CODE SUMMARY PLAN
SCALE: 1/16" = 1'-0"

FIRE/EGRESS PLAN LEGEND

- 1 HR FIRE BARRIER - EXISTING
- TRAVEL DISTANCE (EXIT TRAVEL DIST XX'-X")
- 36" EGRESS 180 PERSONS — EXIT DOOR CAPACITY
- ANTICIPATED FURNITURE AND EQUIPMENT (NIC)
- FE — NEW FIRE EXTINGUISHER
- **ACCESSIBLE ROUTE** ACCESSIBLE ROUTE FROM AN ACCESSIBLE BUILDING ENTRANCE TO AREAS OF PRIMARY FUNCTION, ACCESSIBLE TOILET FACILITIES AND ACCESSIBLE DRINKING FOUNTAINS.

CODE - BUILDING AREA SUMMARY

BUILDING AREAS AND ALTERATION LEVELS

LEVEL	AREA	% OF TOTAL AREA
FIRST FLOOR	81,712 GSF	
TOTAL BUILDING AREA	**81,712 GSF**	**100%**
REPAIRS	0 SF	0%
ALTERATIONS - LEVEL 1	4,293 SF	5%
ALTERATIONS - LEVEL 2	1,216 SF	1%
WORK AREA*	**1,216 SF**	**1%**

*DEFINED AS ALL RECONFIGURED SPACES WITHIN BUILDING - LEVEL 2 ALTERATIONS AREA USED AS EQUIVALENT.

CODE - BUILDING PLAN LEGEND

IEBC CLASSIFICATION OF WORK

- **BUILDING AREA** EXTENTS OF BUILDING. NO WORK UNLESS INDICATED BY CATEGORIES BELOW
- **ALTERATIONS - LEVEL 1 (CHAPTER 7)** REMOVAL AND REPLACEMENT OF EXISTING EQUIPMENT WITH NEW EQUIPMENT TO SERVE THE SAME PURPOSE.
- **ALTERATIONS - LEVEL 2 (CHAPTER 8)** RECONFIGURATION OF SPACE OR RECONFIGURATION / EXTENSION OF ANY SYSTEM OR INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

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BUILDING CODE SUMMARY

Proj No. 21-U04-01
Issue Date 01/20/2025

BC101

A	
<	ANGLE
@	AT
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ACM	ASBESTOS CONTAINING MATERIALS
ACOUS	ACOUSTIC
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADJ	ADJUSTABLE
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPRO X	APPROXIMATE(LY)
ARCH	ARCHITECT OR ARCHITECTURAL
ASPH	ASPHALT
ASST	ASSISTANT
AUTO	AUTOMATIC
AVG	AVERAGE
B	
B/	BOTTOM OF
B/C	BOTTOM OF CURB
BC	BASE CABINET
BD	BOARD
BET	BETWEEN
BEV	BEVELED
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BMK	BENCH MARK
BOT	BOTTOM
BR	BRICK
BRG	BEARING
BRKT	BRACKET
BSMT	BASEMENT
BUR	BUILT-UP ROOF
C	
[	CHANNEL
CAB	CABINET
CB	CATCH BASIN
CC	CENTER TO CENTER
CEM PL	CEMENT PLASTER
CF	COMPOSITION FLOORING, OR CUBIC FOOT
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLO	CLOSET
CLR	CLEAR
CLRM	CLASSROOM
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CP	COPIER
CRSE	COURSE
CS	CONCRETE W/SEALER
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	COUNTER
CY	CUBIC YARD

D	
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DIR	DIRECTOR
DN	DOWN
DR	DOOR
DW	DISHWASHER
DWG	DRAWING
E	
E	EAST
EA	EACH
EB	EDGE BANDING
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL SHT	ELASTIC SHEET
ELE	ELEVATOR
ELEC	ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSE(URE)
ENGR	ENGINEER
ENT	ENTRANCE
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXCL	EXCLUDE(ING)
EXIST	EXISTING
EXP BLT	EXPANSION BOLT
EXT	EXTERIOR
F	
F	FABRIC
F/F	FACE TO FACE
FAX	FACSIMILE
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET W/ FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
FIN	FINISH OR FINISHED
FL	FLOOR
FL CO	FLOOR CLEAN OUT
FLSH	FLASH OR FLASHING
FP	FIRE PROTECTION
FPRF	FIREPROOF OR FIREPROOFING
FR	FIRE RATED OR FRAME
FRP	FIBERGLASS REINFORCED PLASTER
FRSG	FIRE RATED SAFTEY GLAZING
FRT	FIRE RETARDANT - TREATED WOOD
FT	FOOT / FEET
FTG	FOOTING
FURN	FURNISH
G	
GA	GAUGE
GALV	GALVANIZED
GD	GRADE(ING)
GL	GLASS OR GLAZING
GPBD	GYPSUM DRYWALL BOARD
GRAN	GRANITE
GRAV	GRAVEL
GRD	GROUND
GRT	GROUT

H	
HB	HOSE BIBB
HC	HANDICAP(PED)
HOWD	HOLLOW-CORE WOOD
HD	HEAD
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HR HOUR OR HANDRAIL
HT	HT HEIGHT
HTR	HTR HEATER
HVAC	HVACHEATING/VENTILATION/AIR CONDITIONING
I	
ICRA	INFECTION CONTROL RISK ASSESSMENT
ID	INSIDE DIAMETER
IN	INCH OR INCHES
IN	INVERT
INCL	INCLUDE, INCLUDED, OR INCLUDING
INSUL	INSULATION
INT	INTERIOR
J	
JAN	JANITOR
JB	JAMB
JST	JOIST
JT	JOINT
K	
KIT	KITCHEN
L	
LAM	LAMINATE OR LAMINATED
LAN	LOCAL AREA NETWORK CONNECTION
LAV	LAVATORY
LB	POUND
LF	LINEAL FOOT
LGT	LIGHT
LKR	LOCKER
LL	LEAD LINED
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT	LIGHT
LTL	LINTEL
LVR	LOUVER
LWOD	LESS WIDTH OF DOOR
M	
MAS	MASONRY
MAX	MAXIMUM
MBL	MARBLE
MCT	MOSAIC CERAMIC TILE
MDF	MEDIUM DENSITY FIBREBOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MF	MICROFICHE
MFR	MANUFACTURE OR MANUFACTURE
MH	MANHOLE
MICRO	MICROWAVE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOULDING
MLTP	MULTIPLE
MO	MASONRY OPENING
MON	MONITOR
MTD	MOUNTED EL
MTL	METAL
N	
N	NORTH
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NM	NORMAL
NOM	NOMINAL
NTS	NOT TO SCALE
NUM	NUMBER

O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
P	
PART	PARTITION
PC	PERSONAL COMPUTER
PED	PEDESTAL
PERF	PERFORATED
PERM	PERIMETER
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLAST	PLASTIC
PLB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POS	POINT OF SALE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PREML	PREMOLDED
D	
PRI	PRINTER
PROP	PROPERTY
PROT	PROTECT, PROTECTED, OR PROTECTION
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	POINT
PTD	PAINTED
PVC	POLY VINYL CHLORIDE
Q	
QUAL	QUALITY
R	
R	RISER OR RODS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
REF	REFER / REFERENCE
REFL	REFLECTED
REG	REGISTER
REINF	REINFORCING
REQ'D	REQUIRED
RES	RESILIENT
RF	ROOF
RFG	REFRIGERATOR
RFT	RUBBERIZED FABRIC TILE
RG	RANGE
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RSF	RUBBER SHEET FLOORING
RT	RIGHT
RTS	RUBBER TRANSITION STRIP
RWC	RAIN WATER CONDUCTOR
S	
S	SOUTH
SAN	SANITARY
SC	SPECIAL COATING
SCHD	SCHEDULE
SCVC	SOLID-CORE VINYL CLAD
SCWD	SOLID-CORE WOOD
SEC	SECTION
SERV	SERVICE
SF	SQUARE FOOT
SFC	STORE FIXTURE CONTRACTOR
SHT	SHEET
SHTH	SHEATHING
SI	SQUARE INCH

SIM	SIMILAR
SLD	SOLID
SPEC	SPECIFY, SPECIFIED OR SPECIFICATIONS
SPKLR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STREET
STD	STANDARD
STL	STEEL
STN	STONE
STOR	STORAGE
STRUC	STRUCTURAL
SUPPT	SUPPORT(RING)
SURF	SURFACE
SUSP	SUSPEND, SUSPENDED, OR SUSPENSION
SY	SQUARE YARD
SYN	SYNTHETIC
SYS	SYSTEM
T	
"T"	TEE (BAR OR W)
T	TREAD
T/	TOP OF
T/C	TOP OF CURB
TB	TACKBOARD
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPERED OR TEMPERATURE
TERM	TERMINATE / TERMINAL
TERR	TERRAZZO
THRESH	THRESHOLD
TLT	TOILET
TRTD	TREATED
TV	TELEVISION
TYP	TYPICAL
U	
U/S	UNDERSIDE
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UMCT	UNGLAZED MOSAIC CERAMIC TILE
UNO	UNLESS NOTED OTHERWISE
V	
VASF	VINYL ATHLETIC SHEET FLOORING
VERT	VERTICAL
VEST	VESTIBULE
W	
W	WEST
W/	WITH
WC	WATER CLOSET OR WALL CABINET
WCM	WALL COVERING MATERIAL
WD	WOOD
WF	WOOD FLOORING
WN	WINDOW
WP	WATERPROOF(ING)
WS	WORKSTATION
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
Y	
YR	YEAR
Z	
"Z"	ZEE

ARCH - GRAPHIC SYMBOLS LEGEND

BUILDING SECTION — 1 / A101 — SIM

WALL SECTION — 1 / A101 — SIM

EXTERIOR ELEVATION — 1 / A101 — SIM

INTERIOR/CASEWORK ELEVATION — 2 / A300

DETAIL OR ENLARGED PLAN REFERENCE — SIM — 1 / A101

FLOOR ELEVATION WORK POINT

FLOOR TRANSITION — VCT | CPT

FIRE EXTINGUISHER — FE

FIRE EXTINGUISHER CABINET — FEC

NEW COLUMN GRID MARKER — #

EXISTING COLUMN GRID MARKER — #

CABINET MARKER — Cab_Type_Num / W. H. D

CEILING TAG W/ELEVATION — 1'-0" / 1t

CODE TAG, ROOM NAME, AREA & OCCUPANCY — ROOM / 150 SF / X — Type AREA: Adjusted Area

DOOR TAG — A101.1

REVISION CLOUD

REVISION TAG — 1

ROOM NAME & NUMBER — ROOM / XF999

SPECIALTY EQUIPMENT TAG — SE-#

WALL TYPES — C6a

WINDOW TAG — W99

WINDOW TREATMENT — WT-# / X — X

ARCH - GRAPHIC CONVENTIONS LEGEND

SECTIONS/ SECTIONAL DETAILS

- CONCRETE BLOCK
- CAST-IN-PLACE-CONCRETE
- STRUCTURAL/MISCELLANEOUS STEEL
- EARTH
- GRAVEL/ENGINEERED FILL
- STONE, OR NATURAL BUILDING STONE
- PLASTER OR GYPSUM BOARD, OR EXTERIOR SHEATHING
- BATT INSULATION
- ROOF, TAPERED, CAVITY OR RIGID INSULATION
- FINISHED WOOD TRIM
- PLYWOOD
- CAVITY DRAINAGE MATERIAL

PLANS/ PLAN DETAIL GRAPHICS

- BRICK WALLS, OR PORTIONS OF WALLS
- CONCRETE BLOCK WALLS
- CAST-IN-PLACE-CONCRETE WALLS
- METAL STUD WALLS
- NEW CONCRETE SLABS AND/OR CONCRETE SIDEWALKS
- SPECIAL MASONRY WALLS, OR PORTIONS OF WALLS - SGFT, OR GROUND-FACED - ETC.

ACCESSIBLE HEIGHTS AND REACH RANGES OF OPERABLE ELEMENTS

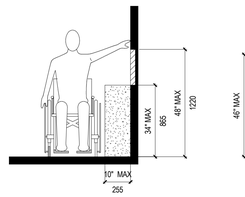


FIG. 308.3.2
OBSTRUCTED HIGH SIDE REACH

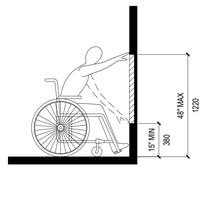


FIG. 308.2.1
UNOBSTRUCTED HIGH FORWARD REACH

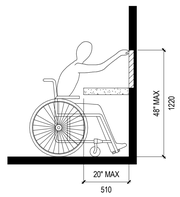


FIG. 308.2.2
OBSTRUCTED HIGH FORWARD REACH

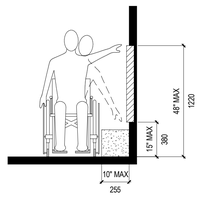
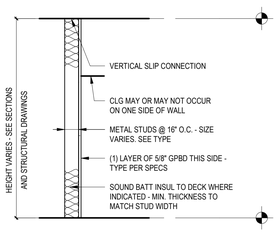


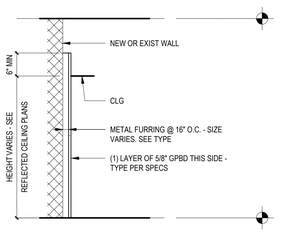
FIG. 308.3.1
UNOBSTRUCTED SIDE REACH

NOTE: ALL OPERABLE ELEMENTS SHALL BE MOUNTED WITHIN THE REACH RANGES NOTED ABOVE. OPERABLE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO THERMOSTATS, LIGHT SWITCHES, WINDOW CONTROLS, INTERCOMS POWER AND DATA RECEPTACLES, SECURITY ALARM CONTROLS, GARAGE DOOR OPENERS, ACCESSIBLE MAILBOXES A/V CONTROLS, FIRE ALARM PULL STATIONS, APPLIANCES, SOAP DISPENSERS, FIRE EXTINGUISHERS, VENDING MACHINES, ETC.

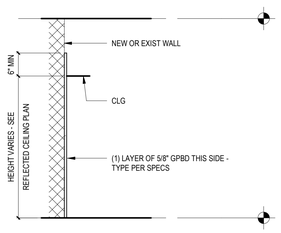
SEE DRAWINGS & SPECIFICATIONS FOR SPECIFIC MOUNTING HEIGHTS OF OPERABLE ELEMENTS INCLUDING BUT NOT LIMITED TO ELECTRICAL SWITCHES, CARD READERS, PULL STATIONS, VOLUME CONTROLS, ETC.



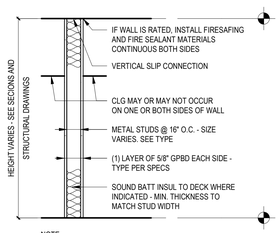
H2 — 2 1/2" MTL STUD & GPBD PARTITION TO DECK (3 1/8")
H2a — 2 1/2" MTL STUD & GPBD PARTITION TO DECK W/ BATTS (3 1/8")
H2b — 2 1/2" MTL STUD & GPBD PARTITION TO ABOVE CEILING (3 1/8")
H3 — 3 5/8" MTL STUD & GPBD PARTITION TO DECK (4 1/4")
H3a — 3 5/8" MTL STUD & GPBD PARTITION TO DECK W/ BATTS (4 1/4")
H3b — 3 5/8" MTL STUD & GPBD PARTITION TO ABOVE CEILING (4 1/4")
H6 — 6" MTL STUD & GPBD PARTITION TO DECK (6 5/8")
H6a — 6" MTL STUD & GPBD PARTITION TO DECK W/ BATTS (6 5/8")
H6b — 6" MTL STUD & GPBD PARTITION TO ABOVE CEILING (6 5/8")



J1 — 7/8" MTL FURRING & GPBD ONE SIDE TO ABOVE DECK (1 1/2")
J2 — 1 1/2" MTL FURRING & GPBD ONE SIDE TO ABOVE DECK (2 1/8")



K1 — LAMINATED GPBD ONE SIDE TO ABOVE CEILING (5/8")



NOTE:
WHERE 1 HR RATED WALLS OCCUR ON PLANS, PROVIDE UL #U419

C2 — 2 1/2" MTL STUD & GPBD PARTITION TO DECK (3 3/4")
C2a — 2 1/2" MTL STUD & GPBD PARTITION TO DECK W/ BATTS (3 3/4")
C3 — 3 5/8" MTL STUD & GPBD PARTITION TO DECK (4 7/8")
C3a — 3 5/8" MTL STUD & GPBD PARTITION TO DECK W/ BATTS (4 7/8")
C6 — 6" MTL STUD & GPBD PARTITION TO DECK (7 1/4")
C6a — 6" MTL STUD & GPBD PARTITION TO DECK W/ BATTS (7 1/4")

ARCH - PLAN COMPONENTS LEGEND

WALL DESIGNATIONS

- EXISTING WALL TO REMAIN
- DEMOLISHED WALL
- NEW STUD WALL
- NEW STUD WALL - W/ SOUND BATT INSULATION
- NEW BRICK WALL OR PORTION OF WALL
- NEW MASONRY WALL OR PORTION OF WALL
- CAST-IN-PLACE CONCRETE WALL OR PORTION OF WALL
- SPECIAL MASONRY WALLS, OR PORTIONS OF WALLS - SGFT, OR GROUND FACED - ETC

FIRE RATING DESIGNATIONS

- 2 HR FIRE WALL
- 2 HR FIRE WALL - EXISTING
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER - EXISTING
- 1 HR FIRE PARTITION
- 1 HR FIRE PARTITION - EXISTING
- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER - EXISTING

DOOR DESIGNATIONS

- EXISTING DOOR AND/OR FRAME TO REMAIN - SEE DOOR SCHEDULE FOR ANY ADDITIONAL WORK
- NEW DOOR AND/OR FRAME TO BE PROVIDED - SEE DOOR SCHEDULE
- EXISTING DOOR AND/OR FRAME TO BE REMOVED - SEE DEMO PLAN/NOTES

CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING ALL FIRE PARTITIONS TO MEET IBC 2018 REQUIREMENTS. ALL FIRE PARTITIONS SHALL BE CONSTRUCTED TO FLOOR OR ROOF DECK ABOVE AND SEALED AIR-TIGHT WITH DEFLECTION HEADS AND FIRE SAFING. ALL FIRE PARTITIONS SHALL BE PER ASSEMBLIES NOTED ON WALL TYPES LEGEND, AND EXTEND BEYOND BUILDING ENVELOPE AND BE SEPARATE FROM STRUCTURE AS PER IBC 2018. SEE PLANS FOR LOCATIONS.

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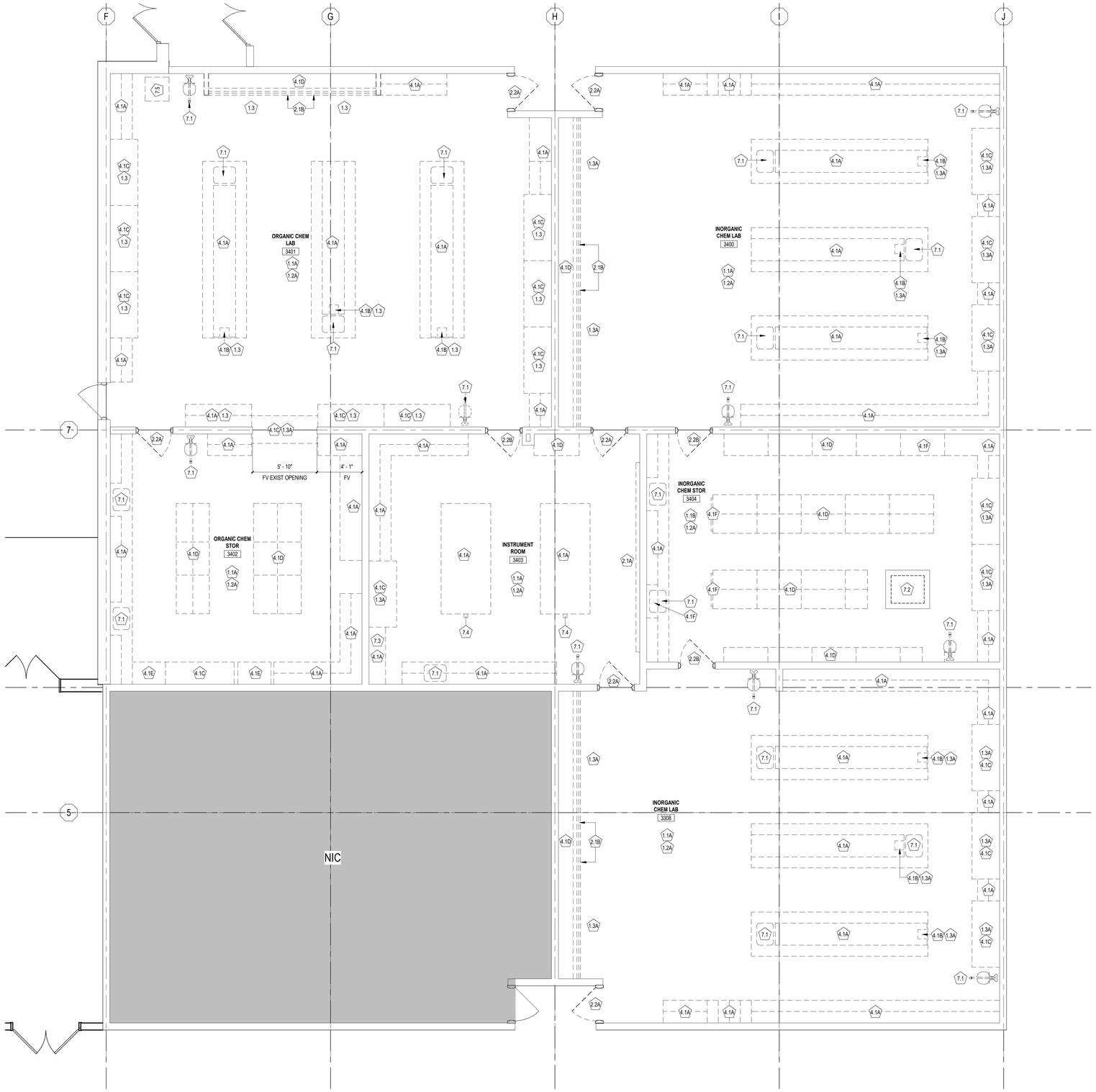
YOUNGWOOD, PA, 15697

GEN ABBREV, SYMBOLS, AND WALL TYPES

Proj No. 21-U04-01
Issue Date 01/20/2025

A001



1 AD101 FIRST FLOOR - DEMO PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES

EXISTING ROOM NUMBER KEY

"EA-126" - "E" Denotes existing rooms
"A" Denotes area
"126" Denotes room numbers assigned for field survey

1. THE DEMOLITION PLANS ARE SCHEMATIC AND SHALL SERVE AS A GENERAL GUIDE AND ARE NOT INTENDED TO BE TOTALLY INCLUSIVE. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. COORDINATE DEMOLITION ACTIVITIES WITH ALL OTHER CONSTRUCTION IDENTIFIED ON CONSTRUCTION DOCUMENTS.
3. ITEMS SHOWN DASHED ON THE DEMOLITION PLANS SHALL BE REMOVED, TYPICAL, UNO. KEYNOTES / ARROWS POINT TO A REPRESENTATIVE AMOUNT OF THE DEMOLITION WORK BUT ARE NOT INTENDED TO BE ALL INCLUSIVE.
4. THE FOLLOWING APPLIES TO MASONRY WALLS IDENTIFIED TO BE REMOVED:

   IF WALL RESTS ON FLOOR SLAB, SCRAPE FLOOR CLEAN TO RECEIVE NEW FINISH FLOORING. IF WALL EXTENDS BELOW FLOOR SLAB, REMOVE WALL TO 8" BELOW FLOOR SURFACE AND PATCH FLOOR TO MATCH ADJACENT SURFACES UNO

   NOTE: FLOOR SLAB ELEVATIONS MAY VARY ON EACH SIDE OF WALL. GC SHALL PATCH / FILL FLOOR SURFACES TO OBTAIN A MAXIMUM 1/8" PER FOOT SLOPE BETWEEN FLOOR SURFACES

5. LINTELS SHALL BE INSTALLED IN NEW OPENINGS IN EXISTING MASONRY WALLS. SEE STRUCTURAL DRAWINGS FOR SIZES.
6. REFER TO SPEC SECTION DIVISION 01 "SELECTIVE DEMOLITION" FOR SPECIFIC REQUIREMENTS REGARDING DEMOLITION SHOWN ON THIS DRAWING.
7. REFER TO SPEC SECTION DIVISION 01 "EXECUTION" FOR SPECIFIC REQUIREMENTS REGARDING CUTTING AND PATCHING SHOWN ON THIS DRAWING.
8. ALL MONITORS, ARTWORK, CLOCKS AND SIGNAGE IN THE WAY OF NEW WORK TO BE SALVAGED AND TURNED OVER TO THE OWNER.
9. GENERAL CONTRACTOR SHALL PATCH/REPAIR EXISTING SURFACES DAMAGED BY REMOVAL OF EXISTING EQUIPMENT, EXISTING CABINETRY, EXISTING WALLS, EXISTING ACCESSORIES AND/OR EXISTING SHELVING. CONTRACTOR TO PROVIDE SMOOTH/FLUSH SURFACES IN PREPARATIONS OF NEW FINISH MATERIALS.
10. IF ANY HAZARDOUS MATERIALS OR FINISHES SUSPECT OF HAZARDOUS MATERIAL ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY AND CEASE WORK IN THE SUSPECTED AREA.
11. ALL FIRE PROTECTION SYSTEM COMPONENTS ARE TO REMAIN AND PROTECTED DURING CONSTRUCTION.

NUMBERED DEMOLITION NOTES (#)

NOTE:	NOT ALL NOTES APPEAR ON ALL SHEETS
1 - FINISHES	
1.1A	REMOVE VINYL COMPOSITION FLOOR TILE & MASTIC. PREP AND PREPARE FOR NEW FINISH
1.1B	EXISTING PAINT ON CONC. SLAB. CLEAN AND PREP PER MANUFACTURER'S WRITTEN INSTRUCTIONS FOR VAPOR CONTROL FOR FLOORING PRODUCT.
1.2A	REMOVE RUBBER BASE & MASTIC. PREP AND PREPARE FOR NEW FINISH
1.3	REMOVE EXISTING ACT CEILING AND FRAMING TO COORDINATE WITH NEW WORK. PREP TO PATCH CEILING SYSTEM AT NEW WORK.
1.3A	EXISTING ACT TO REMAIN. PATCH AND REPAIR CEILING SYSTEM AT NEW WORK.
2 - INTERIOR CONSTRUCTION	
2.1A	REMOVE EXISTING CHALKBOARD
2.1B	REMOVE SLIDING MARKERBOARD DOOR AND ASSOCIATED TRACK
2.2A	REMOVE DOOR; FRAME TO REMAIN - SALVAGE DOOR, HARDWARE AND TURN OVER TO OWNER
2.2B	REMOVE DOOR AND FRAME - SALVAGE DOOR/FRAME, HARDWARE AND TURN OVER TO OWNER
4 - SPECIALTIES & EQUIPMENT	
4.1A	REMOVE PLASTIC LAMINATE/ WOOD/ METAL CASEWORK, COUNTERTOPS, BLOCKING & ASSOCIATED SUPPORTS
4.1B	CAREFULLY REMOVE RESTEK PIPE CHASE AS TO NOT DAMAGE EXISTING CEILING.
4.1C	REMOVE FUME HOOD, METAL CASEWORK BELOW, COUNTERTOP, BLOCKING & ASSOCIATED SUPPORTS; DISCONNECT PLUMBING AND CAP FOR NEW HOOD AND SINK; COORDINATE MEP CAP/DISCONNECT WITH MEP CONTRACTORS
4.1D	REMOVE WOOD/METAL SHELVING AND ASSOCIATED HARDWARE
4.1E	REMOVE EXISTING CORROSIVE AND FLAMMABLE STORAGE AND ASSOCIATED VENT PIPING
4.1F	REMOVE EXISTING MISC WALL MOUNTED SHELVING AND TACKBOARDS
7 - MEP COMPONENTS (COORD W/ MEP SERIES DRAWINGS)	
7.1	REMOVE PLUMBING FIXTURES
7.2	REMOVE EXISTING STEAM BOILER, CONCRETE PAD TO REMAIN
7.3	REMOVE EXISTING SNORKEL EXHAUST VENT UNIT
7.4	REMOVE EXISTING POWER POLE
7.5	SALVAGE EXISTING ICE MAKER FOR RELOCATION

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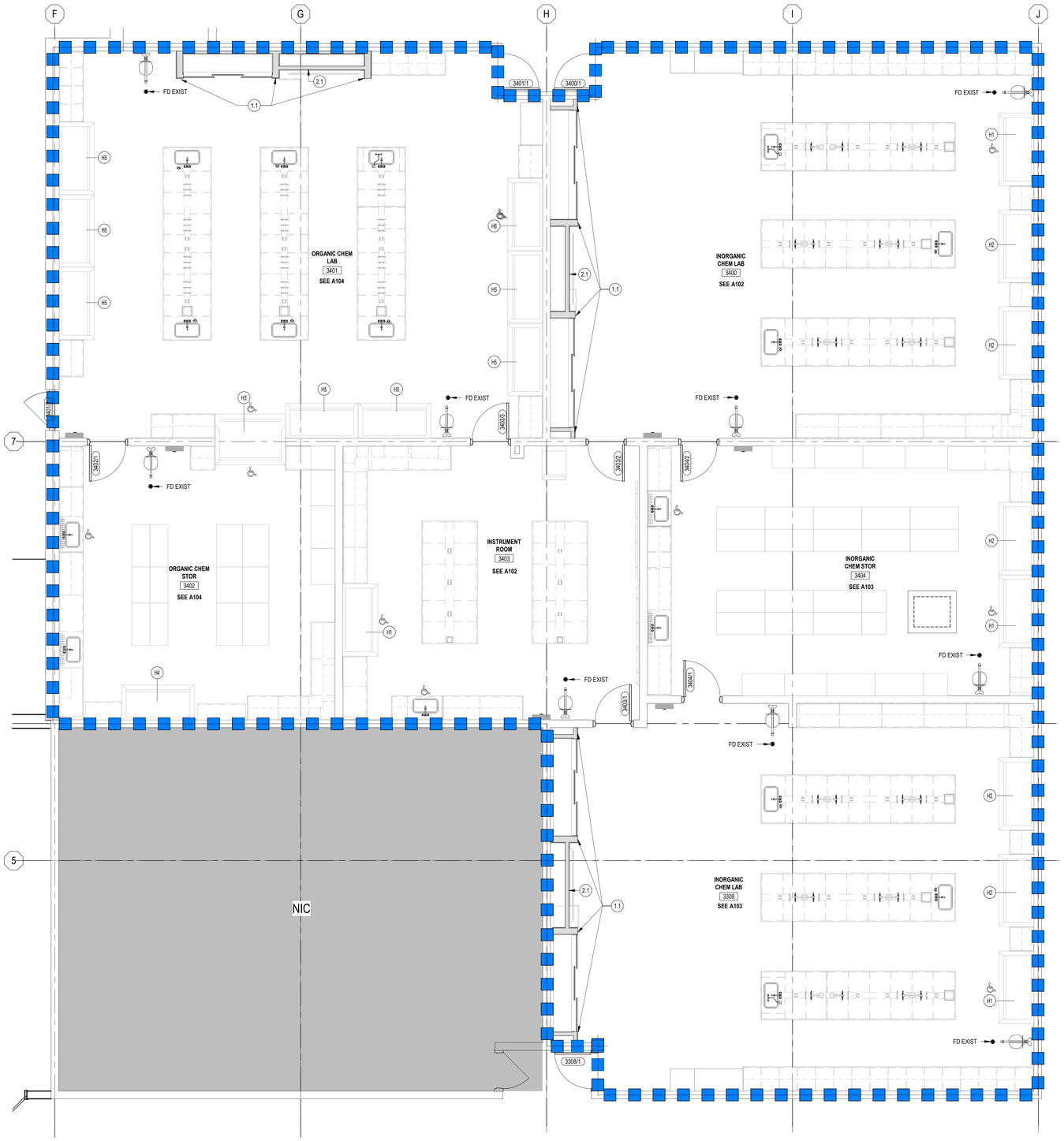
FIRST FLOOR - DEMO PLAN

Proj No. 21-U04-01
Issue Date 01/20/2025

AD101

1/21/2025 2:55:18 PM Autodesk Docs://U04-21-01 Westmoreland CCC - Chem Lab Renovation/21-U04-01 WCCC Chem Lab Renovation CENTRAL R23.rvt



1 A101 FIRST FLOOR - NEW WORK PLAN

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

GENERAL PROJECT NOTES

1. REFER TO A102 THROUGH A104 FOR ENLARGED PLANS AND CASEWORK ELEVATIONS.
2. REFER TO A601 FOR FINISH INFORMATION.
3. REFER TO A900 SERIES FOR LAB BENCH DETAILS FOR LAB EQUIPMENT AND FIXTURE TYPES, AND FUME HOOD DETAILS.
4. LAB CASEWORK AND FUME HOODS ARE TO BE SOLE SOURCED FROM ONE MANUFACTURER'S PRODUCT OFFERINGS. DRAWINGS HEREIN PROVIDE GENERAL OVERALL REQUIREMENTS. REFER TO PRODUCT SPECIFICATIONS SECTIONS 11 6100 FUME HOODS AND 12 3553.19 WOOD LABORATORY CASEWORK FOR MORE DETAILED BASIS OF DESIGN PRODUCT INFORMATION.
5. EXISTING ACOUSTICAL PANEL CEILING IS TO REMAIN. PATCH CEILINGS AS NEEDED IN AREAS OF NEW WORK. SEE A601 / MATERIALS LIST FOR CEILING PANEL AND GRID TYPE.
6. SEE LAB BENCH DETAILS FOR LAB EQUIPMENT AND LAB FIXTURE TYPES AND LOCATIONS AT LAB BENCHES.
7. SEE LABORATORY FUME HOOD SCHEDULE AND SPECIFICATIONS FOR LAB FIXTURE TYPES AND LOCATIONS AT FUME HOODS.
8. EXISTING FLOOR DRAINS TO REMAIN. SLOPE NEW FLOOR AS REQ'D TO BE COMPLAINT WITH IIC A117.1.
9. TYPICAL WALL TYPE INDICATORS DISPLAYED ON THE PLANS INDICATE THAT THE PARTITION TYPE IS CONTINUOUS TO A CORNER OR TO AN INTERSECTING PARTITION, UNO.
10. WHERE DIFFERENT FLOOR MATERIAL MEET, THEY SHALL MEET UNDER THE CENTERLINE OF THE DOOR, UNLESS OTHERWISE NOTED.
11. ALL INTERIOR DIMENSION LINES ARE TO THE FINISH FACE, UNO.
12. ALL INTERIOR GPBD FINISH TO BE LEVEL (4), UNO.
13. ALL EXISTING GPBD IDENTIFIED FOR NEW FINISH TO BE REPAIRED AND FINISHED THE SAME AS NEW GPBD, SEE SPECIFICATION SECTION 09 91 00.
14. ALL EXISTING MASONRY IDENTIFIED FOR NEW FINISH TO BE REPAIRED, SEE SPECIFICATION SECTION 09 91 00.
15. EXISTING FIRE PROTECTION SYSTEM COMPONENTS ARE TO REMAIN AND PROTECTED DURING CONSTRUCTION.

(#) CONSTRUCTION NOTES

NUM	DESCRIPTION
1.1	ALIGN FINISH FACES
2.1	PROVIDE AND INSTALL BLOCKING FOR OWNER PROVIDED MONITOR AND MOUNT. COORDINATE LOCATION WITH ARCHITECT

FUME HOOD COMPONENTS BY TYPE

ITEM NO.	SERVICE						CUP SINK	WORKSURFACE HEIGHT	OVERALL SIZE	OPERATION	CEILING ENCLOSURE	FAN / BLOWER SWITCH
	AIR	VAC	CW	GAS	STEAM	DUPLEX REC						
H1	NONE	R	L	L	NONE	L/R	MIDDLE REAR - SEE A902	ADA - 32" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H2	NONE	L	L	L	NONE	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H3	L/R	L/R	NONE	L/R	NONE	L/R	EACH SIDE	ADA - 32" TO UNDERSIDE OF HOOD	70" W W/PASS THROUGH, 30" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H4	L	L	L	L	R	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H5	L/R	L/R	L/R	L/R	L/R	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H6	L/R	L/R	L/R	L/R	L/R	L/R	MIDDLE REAR - SEE A902	ADA - 32" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES

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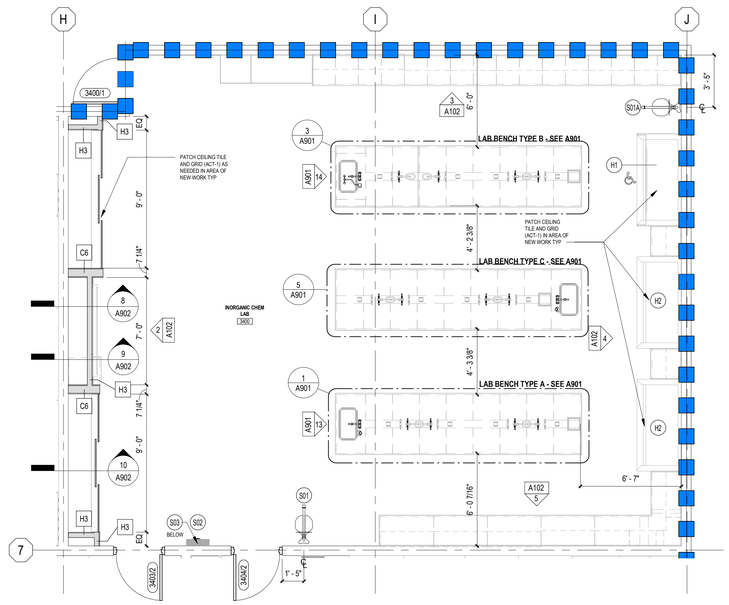
FIRST FLOOR - NEW WORK PLAN

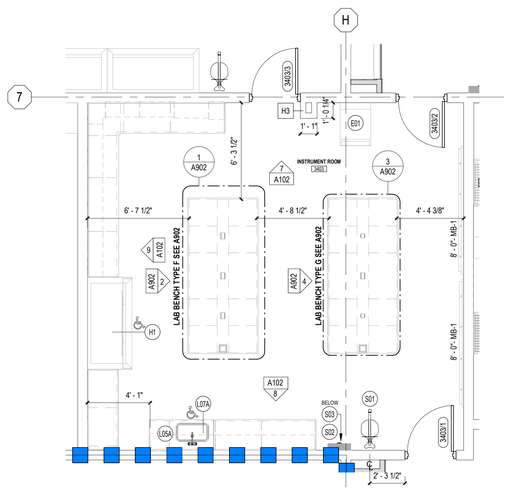
Proj No. 21-U04-01
Issue Date 01/20/2025

A101

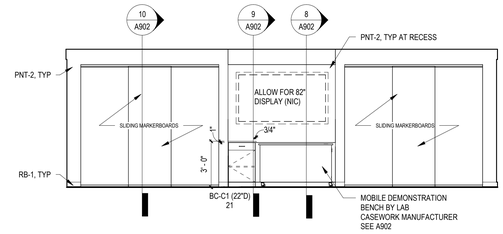
1/21/2025 2:55:20 PM Autodesk Docs://U04-21-01 Westmoreland CCC - Chem Lab Renovation/21-U04-01 WCCC Chem Lab Renovation CENTRAL R23.rvt



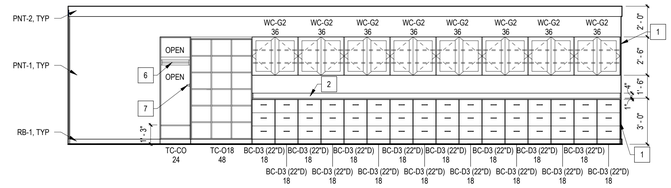
1 A102 ENLARGED FLOOR PLAN - RM 3400
SCALE: 1/4" = 1'-0"



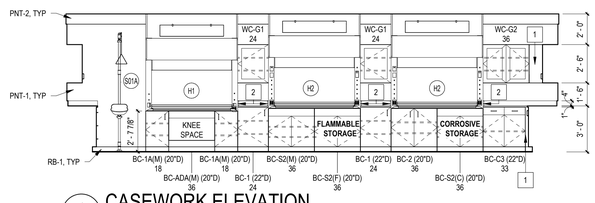
6 A102 ENLARGED FLOOR PLAN - RM 3403
SCALE: 1/4" = 1'-0"



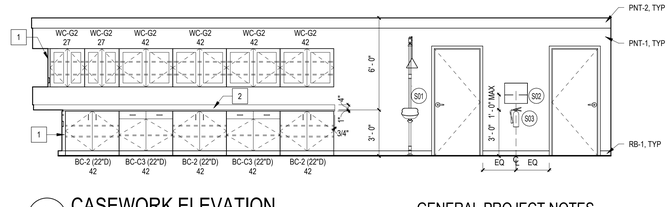
2 A102 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



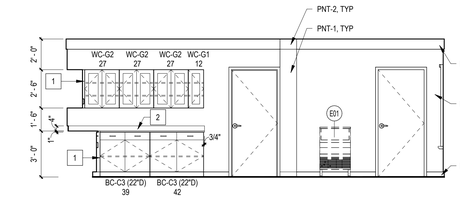
3 A102 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



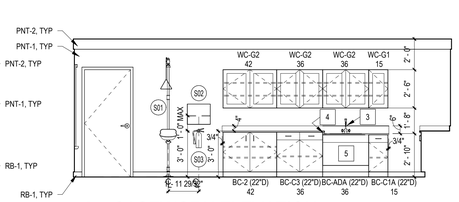
4 A102 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



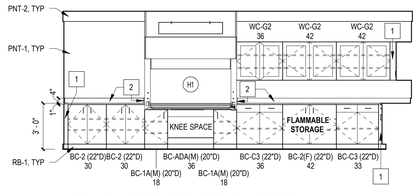
5 A102 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



7 A102 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



8 A102 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



9 A102 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"

TYPICAL CASEWORK DESIGNATION NOTES

DESIGNATES CABINET CATEGORY (SEE A601) — XX - XX — # DESIGNATES CABINET TYPE (SEE A601)
X
DESIGNATES CASEWORK WIDTH (SEE ELEVATIONS)

(C) = CORROSIVE
(F) = FLAMMABLE
(M) = METAL
* IF NO DESIGNATION, CABINET TO BE WOOD

CASEWORK SCHEDULE

TAG	DESCRIPTION
BC-1 (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1 (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1(C) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1(F) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1(M) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1A (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1A(M) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2 (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2 (22"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-2(C) (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2(F) (22"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2(M) (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2A (22"D)	DOUBLE DOOR CABINET WITH 2 ADJ. SHELVES
BC-5 (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-ADA (22"D)	ADA COMPLIANT SINK APRON
BC-ADA(M) (20"D)	ADA COMPLIANT SINK APRON - METAL (20"D)
BC-C1 (22"D)	SINGLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND ONE 6"H DRAWER
BC-C1A (22"D)	SINGLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND ONE 6"H DRAWER
BC-C3 (22"D)	DOUBLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND 2 6" H DRAWERS
BC-C3A (22"D)	DOUBLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND 2 6" H DRAWERS
BC-D3 (20"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-D3 (22"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-D3A (20"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-L (22"D)	BASE CABINET WITH 4 EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-S2 (22"D)	DOUBLE DOOR SINK CABINET WITH A 6" HIGH FIXED PANEL AT THE TOP AND A REMOVABLE BACK
BC-S2(C) (20"D)	DOUBLE DOOR BASE CABINET -CORROSIVE STORAGE - METAL
BC-S2(F) (20"D)	DOUBLE DOOR BASE CABINET - FLAMMABLE STORAGE - METAL
BC-S2(M) (20"D)	DOUBLE DOOR BASE CABINET WITH TWO ADJUSTABLE SHELVES - METAL
TC-CO	FULL HEIGHT WARDROBE WITH STORAGE SHELF
TC-O18	OPEN STORAGE CUBBIES WITH 18 COMPARTMENTS
TO-3 (24"D)	OPEN TALL CABINET WITH 3 ADJ. SHELVES
TO-5 (18"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (22"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (24"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (26"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TS-2(C) (18"D)	DOUBLE DOOR TALL CABINET WITH 5 ADJ. SHELVES - METAL
TS-2(F) (16"D)	DOUBLE DOOR TALL CABINET WITH 5 ADJ. SHELVES - METAL
WC-G1	SINGLE DOOR WALL CABINET WITH 2 ADJ. SHELVES WITH GLAZING
WC-G2	DOUBLE DOOR WALL CABINET WITH 2 ADJ. SHELVES WITH GLAZING
WC-S1	42" WIDE FIXED OPEN SHELF (INCLUDE MOUNTING BRACKETS)

NUMBERED INTERIOR/CASEWORK NOTES

NOTE:	NOT ALL NOTES APPEAR ON EACH SHEET
1	FILLER PANEL - SCRIBE TO ADJACENT WALLS; FINISH TO MATCH CASEWORK
2	BACKSPLASH TO MATCH COUNTERTOP, 4" HIGH
3	PROVIDE 6" BACKSPLASH TO MATCH COUNTERTOP AT ACCESSIBLE HEIGHT LOCATIONS - ALIGN TOP W/ ADJACENT 4" BACKSPLASH
4	WATERFALL EDGE AT TRANSITION TO ACCESSIBLE HEIGHT COUNTER - SEE TYPICAL DETAIL
5	KNEE SPACE AT ACCESSIBLE SINK LOCATION TO BE REMOVEABLE - SEE TYPICAL DETAIL
6	HANGER ROD AND SHELF
7	COAT HOOK - 46" AFF

FUME HOOD COMPONENTS BY TYPE

ITEM NO.	SERVICE						CUP SINK	WORKSURFACE HEIGHT	OVERALL SIZE	OPERATION	CEILING ENCLOSURE	FAN / BLOWER SWITCH
	AIR	VAC	CW	GAS	STEAM	DUPLEX REC						
H1	NONE	R	L	L	NONE	L/R	MIDDLE REAR - SEE A902	ADA - 32" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H2	NONE	L	L	L	NONE	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H3	L/R	L/R	NONE	L/R	NONE	L/R	EACH SIDE	ADA - 32" TO UNDERSIDE OF HOOD	70" W W/PASS THROUGH, 30" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H4	L	L	L	L	R	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H5	L/R	L/R	L/R	L/R	L/R	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H6	L/R	L/R	L/R	L/R	L/R	L/R	MIDDLE REAR - SEE A902	ADA - 32" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES

GENERAL PROJECT NOTES

1. REFER TO A102 THROUGH A104 FOR ENLARGED PLANS AND CASEWORK ELEVATIONS.
2. REFER TO A601 FOR FINISH INFORMATION.
3. REFER TO A900 SERIES FOR LAB BENCH DETAILS FOR LAB EQUIPMENT AND FIXTURE TYPES, AND FUME HOOD DETAILS.
4. LAB CASEWORK AND FUME HOODS ARE TO BE SOLE SOURCED FROM ONE MANUFACTURER'S PRODUCT OFFERINGS. DRAWINGS HEREIN PROVIDE GENERAL OVERALL REQUIREMENTS. REFER TO PRODUCT SPECIFICATIONS SECTIONS 11 6100 FUME HOODS AND 12 3553.19 WOOD LABORATORY CASEWORK FOR MORE DETAILED BASIS OF DESIGN PRODUCT INFORMATION.
5. EXISTING ACOUSTICAL PANEL CEILING IS TO REMAIN. PATCH CEILINGS AS NEEDED IN AREAS OF NEW WORK. SEE A601 / MATERIALS LIST FOR CEILING PANEL AND GRID TYPE.
6. SEE LAB BENCH DETAILS FOR LAB EQUIPMENT AND LAB FIXTURE TYPES AND LOCATIONS AT LAB BENCHES.
7. SEE LABORATORY FUME HOOD SCHEDULE AND SPECIFICATIONS FOR LAB FIXTURE TYPES AND LOCATIONS AT FUME HOODS.
8. EXISTING FLOOR DRAINS TO REMAIN. SLOPE NEW FLOOR AS REQ'D TO BE COMPLAINT WITH IIC A117.1.
9. TYPICAL WALL TYPE INDICATORS DISPLAYED ON THE PLANS INDICATE THAT THE PARTITION TYPE IS CONTINUOUS TO A CORNER OR TO AN INTERSECTING PARTITION, UNO.
10. WHERE DIFFERENT FLOOR MATERIAL MEET, THEY SHALL MEET UNDER THE CENTERLINE OF THE DOOR, UNLESS OTHERWISE NOTED.
11. ALL INTERIOR DIMENSION LINES ARE TO THE FINISH FACE, UNO.
12. ALL INTERIOR GPBD FINISH TO BE LEVEL (4), UNO.
13. ALL EXISTING GPBD IDENTIFIED FOR NEW FINISH TO BE REPAIRED AND FINISHED THE SAME AS NEW GPBD, SEE SPECIFICATION SECTION 09 91 00.
14. ALL EXISTING MASONRY IDENTIFIED FOR NEW FINISH TO BE REPAIRED, SEE SPECIFICATION SECTION 09 91 00.
15. EXISTING FIRE PROTECTION SYSTEM COMPONENTS ARE TO REMAIN AND PROTECTED DURING CONSTRUCTION.

GENERAL INTERIOR / CASEWORK NOTES

1. PROVIDE STANDARD LOCKS AT ALL CABINETS UNLESS NOTED OTHERWISE. KEY ALIKE PER ROOM AND MASTER KEY FOR PROJECT.
2. VERIFY EQUIPMENT SIZES, WEIGHTS, AND CLEARANCES AND ADJUST CASEWORK ACCORDINGLY.
3. PROVIDE FILLER PANELS FOR ALL CASEWORK AND SCRIBE TO WALL.
4. ALL COUNTERTOPS TO BE 1" EPOXY RESIN UNLESS NOTED OTHERWISE. PROVIDE 4" HIGH MATCHING EPOXY RESIN BACKSPLASH AGAINST ALL WALLS AND AS NOTED.
5. REFER TO SPECIFICATIONS FOR WOOD CASEWORK SPECIES, FINISH, AND HARDWARE TYPES.
6. INSTALL RB-1 RESILIENT BASE ON THE BASE OF ALL CASEWORK.
7. PAPER TOWEL DISPENSERS AND SOAP DISPENSERS AT EACH SINK LOCATION TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
8. FOR CASEWORK DEPTHS NOT SHOWN IN ELEVATION, SEE A601.
9. GC TO VERIFY EXACT MOUNTING LOCATIONS OF ALL ACCESSORIES IN THE FIELD WITH THE ARCHITECT PRIOR TO INSTALLATION.
10. GC SHALL PROVIDE AND INSTALL ADDITIONAL FRAMING AND BLOCKING AS REQUIRED FOR ACCESSORY INSTALLATIONS IN STUD WALL AND GPBD PARTITIONS PER THE ACCESSORY MANUFACTURER'S RECOMMENDATIONS.
11. PROVIDE FINISHED END PANELS WHERE EXPOSED TO VIEW.

EQUIPMENT AND FITTINGS LEGEND

NOTE:	NOT ALL ITEMS APPEAR ON ALL SHEETS
E - LABORATORY EQUIPMENT	
E01	EXISTING FREESTANDING, SELF-CONTAINED NUGGET ICE MAKER - NIC
E02	UNDERCOUNTER LABORATORY GLASSWARE WASHER - LABCONCO STEAMSCRUBBER MODEL # 401001000 OR APPROVED EQUAL
E03	WALL-MOUNTED LABORATORY PEGBOARD W/ DRIP TROUGH (32"W X 30"H) - SEE 5A/A902
E04	AUTOMATIC WATER DISTILLER - 8 GALLONS PER DAY W/ 4 GALLON RESERVE TANK - DURASTILL MODEL 30J OR APPROVED EQUAL
E05	STEAM BOILER (BY PLUMBING CONTRACTOR) EXIST CONCRETE PAD TO REMAIN
L - LABORATORY DECK-MOUNTED FITTINGS AND SINKS (COORD CONNECTIONS W/ MEP CONTRACTORS)	
L01A	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X AIR SERVICE
L01G	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X GAS SERVICE
L01V	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X VACUUM SERVICE
L02A	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, SINGLE WIDE PEDESTAL W/ GFCI RECEPTACLES. RECEPTACLES TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02B	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02C	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS. PROVIDE BLANK AT SECOND FIXTURE EACH SIDE FOR OWNER'S DATA CONNECTION
L03	DECK MOUNTED COMBINATION WATER AND GAS FITTING, FAUCET W/ 6" SPREAD GOOSENECK AND REMOVEABLE AERATOR, TWO WAY TURRET W/ GAS OUTLET EACH SIDE.
L04	DECK-MOUNTED EMERGENCY EYE WASH AND DRENCH HOSE.
L04A	DECK-MOUNTED ACCESSIBLE EMERGENCY EYE WASH
L05	DECK-MOUNTED MIXING FAUCET
L05A	DECK-MOUNTED MIXING FAUCET W/ ACCESSIBLE BLADE HANDLES
L06	INTEGRAL EPOXY RESIN CUP SINK (5" x 3" x 7.5")
L07	INTEGRAL EPOXY RESIN SINK (25" x 15" x 10")
L07A	INTEGRAL EPOXY RESIN ACCESSIBLE SINK (25" x 15" x 4.5-11" HIGH-LOW)
S - SAFETY EQUIPMENT	
S01	DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR
S01A	ACCESSIBLE DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR
S02	FIRE BLANKET CABINET W/ FIRE BLANKET
S03	TYPE A-B-C FIRE EXTINGUISHER W/ BRACKET MOUNT
S04	GAS CYLINDER WALL BRACKET - 8"L X 2"D X 4"H (1 CYLINDER CAPACITY)

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REVISIONS

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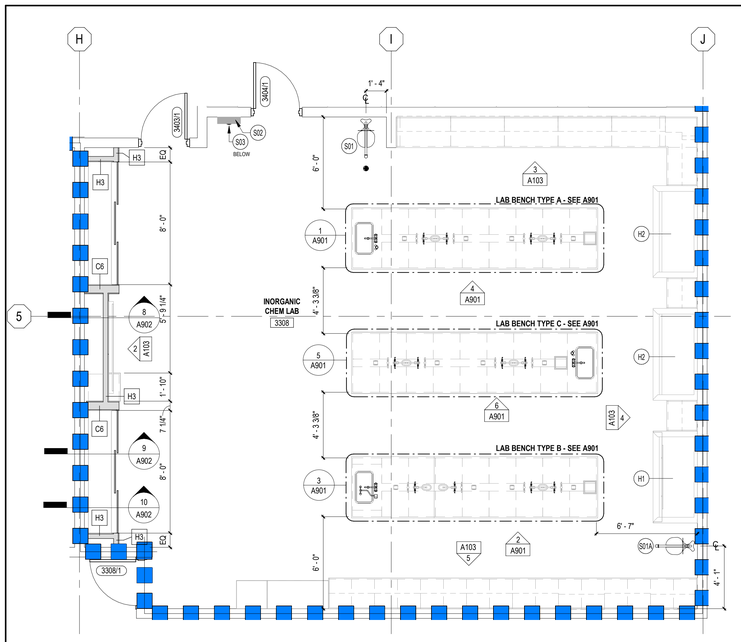
ENLARGED PLAN - RM 3400 & RM 3403

Proj No. 21-U04-01
Issue Date 01/20/2025

A102



1 A103 ENLARGED FLOOR PLAN - RM 3308
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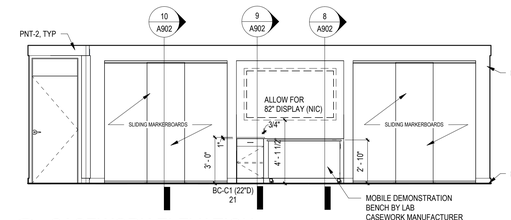
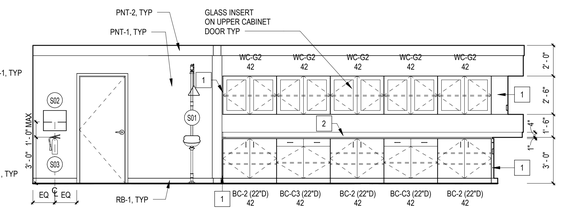


2 A103 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



3 A103 CASEWORK ELEVATION
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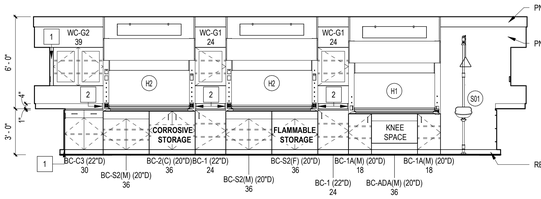
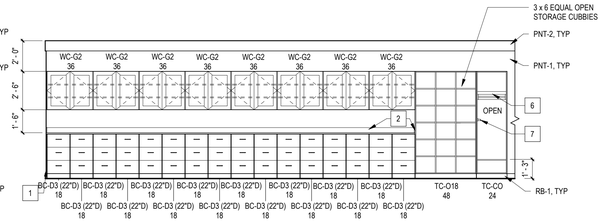


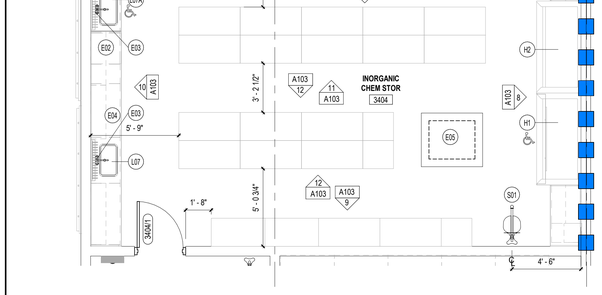
4 A103 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



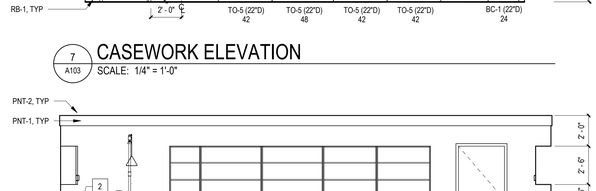
5 A103 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL PROJECT NOTES

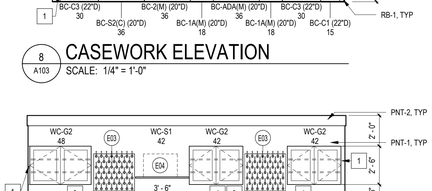
1. REFER TO A102 THROUGH A104 FOR ENLARGED PLANS AND CASEWORK ELEVATIONS.
2. REFER TO A601 FOR FINISH INFORMATION.
3. REFER TO A900 SERIES FOR LAB BENCH DETAILS FOR LAB EQUIPMENT AND FIXTURE TYPES, AND FUME HOOD DETAILS.
4. LAB CASEWORK AND FUME HOODS ARE TO BE SOLE SOURCED FROM ONE MANUFACTURER'S PRODUCT OFFERINGS. DRAWINGS HEREIN PROVIDE GENERAL OVERALL REQUIREMENTS. REFER TO PRODUCT SPECIFICATIONS SECTIONS 11 6100 FUME HOODS AND 12 3553.19 WOOD LABORATORY CASEWORK FOR MORE DETAILED BASIS OF DESIGN PRODUCT INFORMATION.
5. EXISTING ACOUSTICAL PANEL CEILING IS TO REMAIN. PATCH CEILINGS AS NEEDED IN AREAS OF NEW WORK. SEE A601 / MATERIALS LIST FOR CEILING PANEL AND GRID TYPE.
6. SEE LAB BENCH DETAILS FOR LAB EQUIPMENT AND LAB FIXTURE TYPES AND LOCATIONS AT LAB BENCHES.
7. SEE LABORATORY FUME HOOD SCHEDULE AND SPECIFICATIONS FOR LAB FIXTURE TYPES AND LOCATIONS AT FUME HOODS.
8. EXISTING FLOOR DRAINS TO REMAIN. SLOPE NEW FLOOR AS REQ'D TO BE COMPLAINT WITH IIC A117.1.
9. TYPICAL WALL TYPE INDICATORS DISPLAYED ON THE PLANS INDICATE THAT THE PARTITION TYPE IS CONTINUOUS TO A CORNER OR TO AN INTERSECTING PARTITION, UNO.
10. WHERE DIFFERENT FLOOR MATERIAL MEET, THEY SHALL MEET UNDER THE CENTERLINE OF THE DOOR, UNLESS OTHERWISE NOTED.
11. ALL INTERIOR DIMENSION LINES ARE TO THE FINISH FACE, UNO.
12. ALL INTERIOR GPBD FINISH TO BE LEVEL (4), UNO.
13. ALL EXISTING GPBD IDENTIFIED FOR NEW FINISH TO BE REPAIRED AND FINISHED THE SAME AS NEW GPBD, SEE SPECIFICATION SECTION 09 91 00.
14. ALL EXISTING MASONRY IDENTIFIED FOR NEW FINISH TO BE REPAIRED, SEE SPECIFICATION SECTION 09 91 00.
15. EXISTING FIRE PROTECTION SYSTEM COMPONENTS ARE TO REMAIN AND PROTECTED DURING CONSTRUCTION.



6 A103 ENLARGED FLOOR PLAN - RM 3404
SCALE: 1/4" = 1'-0"

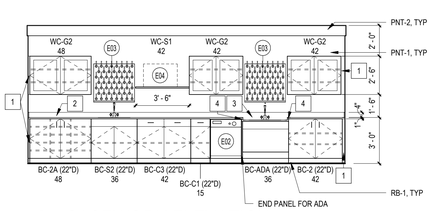


7 A103 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



8 A103 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"

9 A103 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



10 A103 CASEWORK ELEVATION
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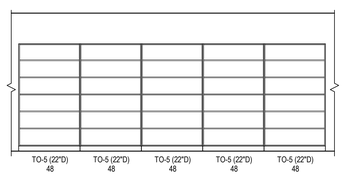
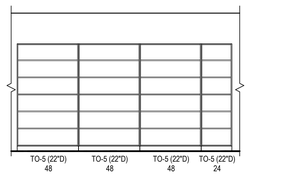


11 A103 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



12 A103 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL INTERIOR / CASEWORK NOTES

1. PROVIDE STANDARD LOCKS AT ALL CABINETS UNLESS NOTED OTHERWISE. KEY ALIKE PER ROOM AND MASTER KEY FOR PROJECT.
2. VERIFY EQUIPMENT SIZES, WEIGHTS, AND CLEARANCES AND ADJUST CASEWORK ACCORDINGLY.
3. PROVIDE FILLER PANELS FOR ALL CASEWORK AND SCRIBE TO WALL.
4. ALL COUNTERTOPS TO BE 1" EPOXY RESIN UNLESS NOTED OTHERWISE. PROVIDE 4" HIGH MATCHING EPOXY RESIN BACKSPLASH AGAINST ALL WALLS AND AS NOTED.
5. REFER TO SPECIFICATIONS FOR WOOD CASEWORK SPECIES, FINISH, AND HARDWARE TYPES.
6. INSTALL RB-1 RESILIENT BASE ON THE BASE OF ALL CASEWORK.
7. PAPER TOWEL DISPENSERS AND SOAP DISPENSERS AT EACH SINK LOCATION TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
8. FOR CASEWORK DEPTHS NOT SHOWN IN ELEVATION, SEE A601.
9. GC TO VERIFY EXACT MOUNTING LOCATIONS OF ALL ACCESSORIES IN THE FIELD WITH THE ARCHITECT PRIOR TO INSTALLATION.
10. GC SHALL PROVIDE AND INSTALL ADDITIONAL FRAMING AND BLOCKING AS REQUIRED FOR ACCESSORY INSTALLATIONS IN STUD WALL AND GPBD PARTITIONS PER THE ACCESSORY MANUFACTURER'S RECOMMENDATIONS.
11. PROVIDE FINISHED END PANELS WHERE EXPOSED TO VIEW.

TYPICAL CASEWORK DESIGNATION NOTES

(C) = CORROSIVE
(F) = FLAMMABLE
(M) = METAL
* IF NO DESIGNATION, CABINET TO BE WOOD

NUMBERED INTERIOR/CASEWORK NOTES

NOTE:	NOT ALL NOTES APPEAR ON EACH SHEET
1	FILLER PANEL - SCRIBE TO ADJACENT WALLS; FINISH TO MATCH CASEWORK
2	BACKSPLASH TO MATCH COUNTERTOP. 4" HIGH
3	PROVIDE 6" BACKSPLASH TO MATCH COUNTERTOP AT ACCESSIBLE HEIGHT LOCATIONS - ALIGN TOP W/ ADJACENT 4" BACKSPLASH
4	WATERFALL EDGE AT TRANSITION TO ACCESSIBLE HEIGHT COUNTER - SEE TYPICAL DETAIL
5	KNEE SPACE AT ACCESSIBLE SINK LOCATION TO BE REMOVEABLE - SEE TYPICAL DETAIL
6	HANGER ROD AND SHELF
7	COAT HOOK - 46" AFF

CASEWORK SCHEDULE

TAG	DESCRIPTION
BC-1 (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1 (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1(C) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1(F) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1(M) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1A (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1A(M) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2 (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2 (22"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-2(C) (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2(F) (22"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2(M) (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2A (22"D)	DOUBLE DOOR CABINET WITH 2 ADJ. SHELVES
BC-S (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-ADA (22"D)	ADA COMPLIANT SINK APRON
BC-ADA(M) (20"D)	ADA COMPLIANT SINK APRON - METAL (20"D)
BC-C1 (22"D)	SINGLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND ONE 6"H DRAWER
BC-C1A (22"D)	SINGLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND ONE 6"H DRAWER
BC-C3 (22"D)	DOUBLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND 2 6" H DRAWERS
BC-C3A (22"D)	DOUBLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND 2 6" H DRAWERS
BC-D3 (20"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-D3 (22"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-D3A (20"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-L (22"D)	BASE CABINET WITH 4 EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-S2 (22"D)	DOUBLE DOOR SINK CABINET WITH A 6" HIGH FIXED PANEL AT THE TOP AND A REMOVABLE BACK
BC-S2(C) (20"D)	DOUBLE DOOR BASE CABINET -CORROSIVE STORAGE - METAL
BC-S2(F) (20"D)	DOUBLE DOOR BASE CABINET - FLAMMABLE STORAGE - METAL
BC-S2(M) (20"D)	DOUBLE DOOR BASE CABINET WITH TWO ADJUSTABLE SHELVES - METAL
TC-CO	FULL HEIGHT WARDROBE WITH STORAGE SHELF
TC-O18	OPEN STORAGE CUBBIES WITH 18 COMPARTMENTS
TO-3 (24"D)	OPEN TALL CABINET WITH 3 ADJ. SHELVES
TO-5 (18"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (22"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (24"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (26"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TS-2(C) (18"D)	DOUBLE DOOR TALL CABINET WITH 5 ADJ. SHELVES - METAL
TS-2(F) (18"D)	DOUBLE DOOR TALL CABINET WITH 5 ADJ. SHELVES - METAL
WC-G1	SINGLE DOOR WALL CABINET WITH 2 ADJ. SHELVES WITH GLAZING
WC-G2	DOUBLE DOOR WALL CABINET WITH 2 ADJ. SHELVES WITH GLAZING
WC-S1	42" WIDE FIXED OPEN SHELF (INCLUDE MOUNTING BRACKETS)

EQUIPMENT AND FITTINGS LEGEND

NOTE:	NOT ALL ITEMS APPEAR ON ALL SHEETS
E - LABORATORY EQUIPMENT	
E01	EXISTING FREESTANDING, SELF-CONTAINED NUGGET ICE MAKER - NIC
E02	UNDERCOUNTER LABORATORY GLASSWARE WASHER - LABCONCO STEAMSCRUBBER MODEL # 40100100 OR APPROVED EQUAL
E03	WALL-MOUNTED LABORATORY PEGBOARD W/ DRIP TROUGH (32"W X 30"H) - SEE 5A/A902
E04	AUTOMATIC WATER DISTILLER - 8 GALLONS PER DAY W/ 4 GALLON RESERVE TANK - DURASTILL MODEL 30J OR APPROVED EQUAL
E05	STEAM BOILER (BY PLUMBING CONTRACTOR) EXIST CONCRETE PAD TO REMAIN
L - LABORATORY DECK-MOUNTED FITTINGS AND SINKS (COORD CONNECTIONS W/ MEP CONTRACTORS)	
L01A	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X AIR SERVICE
L01G	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X GAS SERVICE
L01V	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X VACUUM SERVICE
L02A	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, SINGLE WIDE PEDESTAL W/ GFCI RECEPTACLES. RECEPTACLES TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02B	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02C	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS. PROVIDE BLANK AT SECOND FIXTURE EACH SIDE FOR OWNER'S DATA CONNECTION
L03	DECK MOUNTED COMBINATION WATER AND GAS FITTING, FAUCET W/ 6" SPREAD GOOSENECK AND REMOVEABLE AERATOR. TWO WAY TURRET W/ GAS OUTLET EACH SIDE.
L04	DECK-MOUNTED EMERGENCY EYE WASH AND DRENCH HOSE
L04A	DECK-MOUNTED ACCESSIBLE EMERGENCY EYE WASH
L05	DECK-MOUNTED MIXING FAUCET
L05A	DECK-MOUNTED MIXING FAUCET W/ ACCESSIBLE BLADE HANDLES
L06	INTEGRAL EPOXY RESIN CUP SINK (6" x 3" x 7.5")
L07	INTEGRAL EPOXY RESIN SINK (25" x 15" x 10")
L07A	INTEGRAL EPOXY RESIN ACCESSIBLE SINK (25" x 15" x 4.5-11" HIGH-LOW)
S - SAFETY EQUIPMENT	
S01	DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR.
S01A	ACCESSIBLE DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR.
S02	FIRE BLANKET CABINET W/ FIRE BLANKET
S03	TYPE A-B-C FIRE EXTINGUISHER W/ BRACKET MOUNT
S04	GAS CYLINDER WALL BRACKET - 8L X 2D X 4"H (1 CYLINDER CAPACITY)

FUME HOOD COMPONENTS BY TYPE

ITEM NO.	SERVICE						CUP SINK	WORKSURFACE HEIGHT	OVERALL SIZE	OPERATION	CEILING ENCLOSURE	FAN / BLOWER SWITCH
	AIR	VAC	CW	GAS	STEAM	DUPLEX REC						
H1	NONE	R	L	L	NONE	L/R	MIDDLE REAR - SEE A902	ADA - 32" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H2	NONE	L	L	L	NONE	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H3	L/R	L/R	NONE	L/R	NONE	L/R	EACH SIDE	ADA - 32" TO UNDERSIDE OF HOOD	70" W W/PASS THROUGH, 30" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H4	L	L	L	L	R	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H5	L/R	L/R	L/R	L/R	L/R	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H6	L/R	L/R	L/R	L/R	L/R	L/R	MIDDLE REAR - SEE A902	ADA - 32" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES

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REVISIONS

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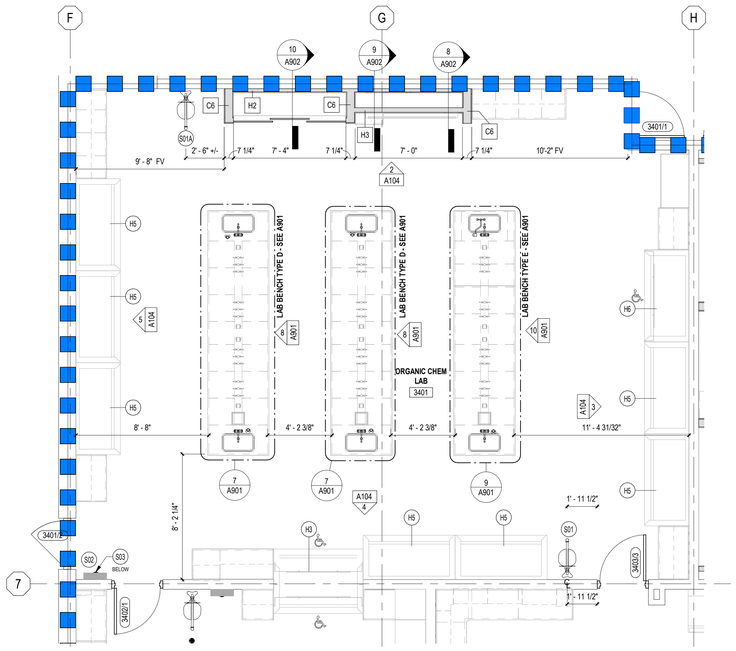
161 COMMUNITY COLLEGE DRIVE YOUNGWOOD, PA, 15697
WESTMORELAND COUNTY COMMUNITY COLLEGE 145 PAVILLION LANE
YOUNGWOOD, PA, 15697

ENLARGED PLAN - RM 3308 & RM 3404

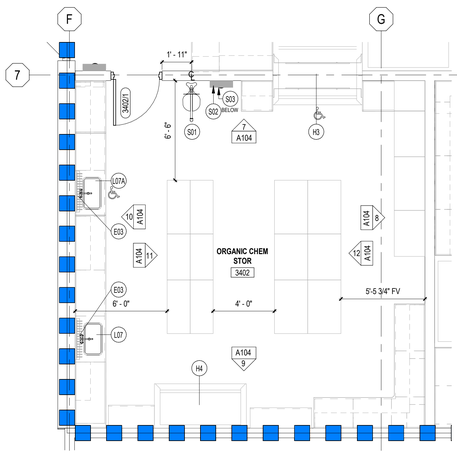
Proj No. 21-U04-01
Issue Date 01/20/2025

A103



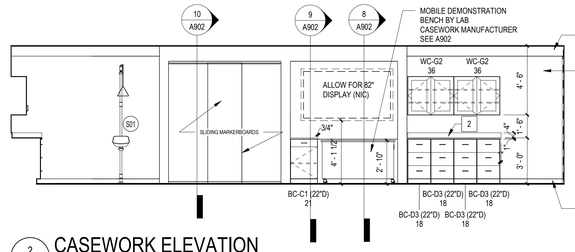
1 A104 ENLARGED FLOOR PLAN - RM 3401

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



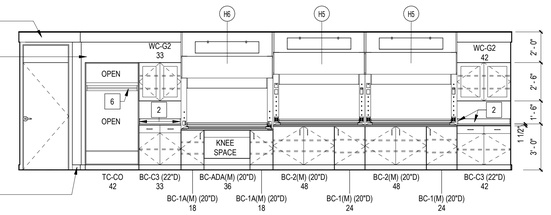
6 A104 ENLARGED FLOOR PLAN - RM 3402

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



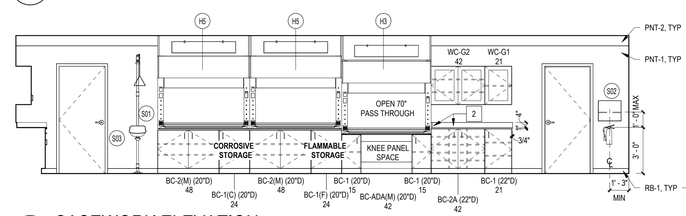
2 A104 CASEWORK ELEVATION

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



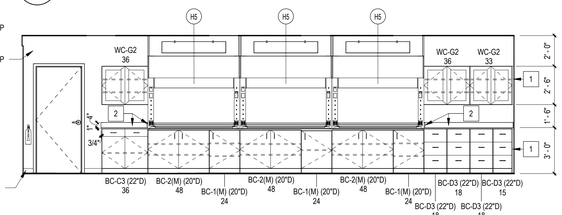
3 A104 CASEWORK ELEVATION

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



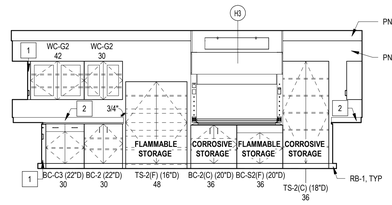
4 A104 CASEWORK ELEVATION

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



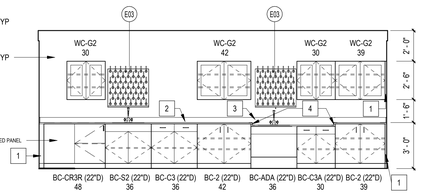
5 A104 CASEWORK ELEVATION

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



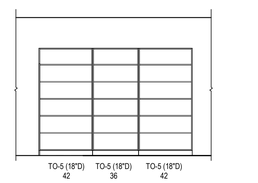
9 A104 CASEWORK ELEVATION

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



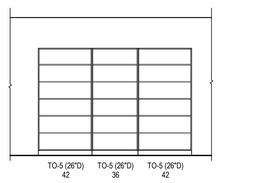
10 A104 CASEWORK ELEVATION

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



11 A104 CASEWORK ELEVATION

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



12 A104 CASEWORK ELEVATION

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

GENERAL INTERIOR / CASEWORK NOTES

1. PROVIDE STANDARD LOCKS AT ALL CABINETS UNLESS NOTED OTHERWISE. KEY ALIKE PER ROOM AND MASTER KEY FOR PROJECT.
2. VERIFY EQUIPMENT SIZES, WEIGHTS, AND CLEARANCES AND ADJUST CASEWORK ACCORDINGLY.
3. PROVIDE FILLER PANELS FOR ALL CASEWORK AND SCRIBE TO WALL.
4. ALL COUNTERTOPS TO BE 1" EPOXY RESIN UNLESS NOTED OTHERWISE. PROVIDE 4" HIGH MATCHING EPOXY RESIN BACKSPLASH AGAINST ALL WALLS AND AS NOTED.
5. REFER TO SPECIFICATIONS FOR WOOD CASEWORK SPECIES, FINISH, AND HARDWARE TYPES.
6. INSTALL RB-1 RESILIENT BASE ON THE BASE OF ALL CASEWORK.
7. PAPER TOWEL DISPENSERS AND SOAP DISPENSERS AT EACH SINK LOCATION TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
8. FOR CASEWORK DEPTHS NOT SHOWN IN ELEVATION, SEE A601.
9. GC TO VERIFY EXACT MOUNTING LOCATIONS OF ALL ACCESSORIES IN THE FIELD WITH THE ARCHITECT PRIOR TO INSTALLATION.
10. GC SHALL PROVIDE AND INSTALL ADDITIONAL FRAMING AND BLOCKING AS REQUIRED FOR ACCESSORY INSTALLATIONS IN STUD WALL AND GPBD PARTITIONS PER THE ACCESSORY MANUFACTURER'S RECOMMENDATIONS.
11. PROVIDE FINISHED END PANELS WHERE EXPOSED TO VIEW.

GENERAL PROJECT NOTES

1. REFER TO A102 THROUGH A104 FOR ENLARGED PLANS AND CASEWORK ELEVATIONS.
2. REFER TO A601 FOR FINISH INFORMATION.
3. REFER TO A900 SERIES FOR LAB BENCH DETAILS FOR LAB EQUIPMENT AND FIXTURE TYPES, AND FUME HOOD DETAILS.
4. LAB CASEWORK AND FUME HOODS ARE TO BE SOLE SOURCED FROM ONE MANUFACTURER'S PRODUCT OFFERINGS. DRAWINGS HEREIN PROVIDE GENERAL OVERALL REQUIREMENTS. REFER TO PRODUCT SPECIFICATIONS SECTIONS 11 6100 FUME HOODS AND 12 3553.19 WOOD LABORATORY CASEWORK FOR MORE DETAILED BASIS OF DESIGN PRODUCT INFORMATION.
5. EXISTING ACOUSTICAL PANEL CEILING IS TO REMAIN. PATCH CEILINGS AS NEEDED IN AREAS OF NEW WORK. SEE A601 / MATERIALS LIST FOR CEILING PANEL AND GRID TYPE.
6. SEE LAB BENCH DETAILS FOR LAB EQUIPMENT AND LAB FIXTURE TYPES AND LOCATIONS AT LAB BENCHES.
7. SEE LABORATORY FUME HOOD SCHEDULE AND SPECIFICATIONS FOR LAB FIXTURE TYPES AND LOCATIONS AT FUME HOODS.
8. EXISTING FLOOR DRAINS TO REMAIN. SLOPE NEW FLOOR AS REQ'D TO BE COMPLAINT WITH IIC A117.1.
9. TYPICAL WALL TYPE INDICATORS DISPLAYED ON THE PLANS INDICATE THAT THE PARTITION TYPE IS CONTINUOUS TO A CORNER OR TO AN INTERSECTING PARTITION, UNO.
10. WHERE DIFFERENT FLOOR MATERIAL MEET, THEY SHALL MEET UNDER THE CENTERLINE OF THE DOOR, UNLESS OTHERWISE NOTED.
11. ALL INTERIOR DIMENSION LINES ARE TO THE FINISH FACE, UNO.
12. ALL INTERIOR GPBD FINISH TO BE LEVEL (4), UNO.
13. ALL EXISTING GPBD IDENTIFIED FOR NEW FINISH TO BE REPAIRED AND FINISHED THE SAME AS NEW GPBD, SEE SPECIFICATION SECTION 09 91 00.
14. ALL EXISTING MASONRY IDENTIFIED FOR NEW FINISH TO BE REPAIRED, SEE SPECIFICATION SECTION 09 91 00.
15. EXISTING FIRE PROTECTION SYSTEM COMPONENTS ARE TO REMAIN AND PROTECTED DURING CONSTRUCTION.

NUMBERED INTERIOR/CASEWORK NOTES

NOTE:	NOT ALL NOTES APPEAR ON EACH SHEET
1	FILLER PANEL - SCRIBE TO ADJACENT WALLS; FINISH TO MATCH CASEWORK
2	BACKSPLASH TO MATCH COUNTERTOP, 4" HIGH
3	PROVIDE 6" BACKSPLASH TO MATCH COUNTERTOP AT ACCESSIBLE HEIGHT LOCATIONS - ALIGN TOP W/ ADJACENT 4" BACKSPLASH
4	WATERFALL EDGE AT TRANSITION TO ACCESSIBLE HEIGHT COUNTER - SEE TYPICAL DETAIL
5	KNEE SPACE AT ACCESSIBLE SINK LOCATION TO BE REMOVEABLE - SEE TYPICAL DETAIL
6	HANGER ROD AND SHELF
7	COAT HOOK - 46" AFF

CASEWORK SCHEDULE

TAG	DESCRIPTION
BC-1 (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1 (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1(C) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1(F) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1(M) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-1A (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-1A(M) (20"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2 (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2 (22"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-2(C) (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2(F) (22"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2(M) (20"D)	DOUBLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES - METAL
BC-2A (22"D)	DOUBLE DOOR CABINET WITH 2 ADJ. SHELVES
BC-5 (22"D)	SINGLE DOOR BASE CABINET WITH 2 ADJUSTABLE SHELVES
BC-ADA (22"D)	ADA COMPLIANT SINK APRON
BC-ADA(M) (20"D)	ADA COMPLIANT SINK APRON - METAL (20"D)
BC-C1 (22"D)	SINGLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND ONE 6"H DRAWER
BC-C1A (22"D)	SINGLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND ONE 6"H DRAWER
BC-C3 (22"D)	DOUBLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND 2 6" H DRAWERS
BC-C3A (22"D)	DOUBLE DOOR BASE CABINET WITH ONE ADJUSTABLE SHELF AND 2 6" H DRAWERS
BC-D3 (20"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-D3 (22"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-D3A (22"D)	BASE CABINET WITH THREE EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-L (22"D)	BASE CABINET WITH 4 EQUAL DRAWERS - INCLUDE PADLOCK HASPS
BC-S2 (22"D)	DOUBLE DOOR SINK CABINET WITH A 6" HIGH FIXED PANEL AT THE TOP AND A REMOVABLE BACK
BC-S2(C) (20"D)	DOUBLE DOOR BASE CABINET -CORROSIVE STORAGE - METAL
BC-S2(F) (20"D)	DOUBLE DOOR BASE CABINET - FLAMMABLE STORAGE - METAL
BC-S2(M) (20"D)	DOUBLE DOOR BASE CABINET WITH TWO ADJUSTABLE SHELVES - METAL
TC-CO	FULL HEIGHT WARDROBE WITH STORAGE SHELF
TC-O18	OPEN STORAGE CUBBIES WITH 18 COMPARTMENTS
TO-3 (24"D)	OPEN TALL CABINET WITH 3 ADJ. SHELVES
TO-5 (18"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (22"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (24"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TO-5 (26"D)	OPEN TALL CABINET WITH 5 ADJ. SHELVES
TS-2(C) (18"D)	DOUBLE DOOR TALL CABINET WITH 5 ADJ. SHELVES - METAL
TS-2(F) (16"D)	DOUBLE DOOR TALL CABINET WITH 5 ADJ. SHELVES - METAL
WC-G1	SINGLE DOOR WALL CABINET WITH 2 ADJ. SHELVES WITH GLAZING
WC-G2	DOUBLE DOOR WALL CABINET WITH 2 ADJ. SHELVES WITH GLAZING
WC-S1	42" WIDE FIXED OPEN SHELF (INCLUDE MOUNTING BRACKETS)

TYPICAL CASEWORK DESIGNATION NOTES

(C) = CORROSIVE
(F) = FLAMMABLE
(M) = METAL
* IF NO DESIGNATION, CABINET TO BE WOOD

FUME HOOD COMPONENTS BY TYPE

ITEM NO.	SERVICE						CUP SINK	WORKSURFACE HEIGHT	OVERALL SIZE	OPERATION	CEILING ENCLOSURE	FAN / BLOWER SWITCH
	AIR	VAC	CW	GAS	STEAM	DUPLEX REC						
H1	NONE	R	L	L	NONE	L/R	MIDDLE REAR - SEE A902	ADA - 32" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H2	NONE	L	L	L	NONE	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H3	L/R	L/R	NONE	L/R	NONE	L/R	EACH SIDE	ADA - 32" TO UNDERSIDE OF HOOD	70" W W/PASS THROUGH, 30" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H4	L	L	L	L	R	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H5	L/R	L/R	L/R	L/R	L/R	L/R	MIDDLE REAR - SEE A902	35" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES
H6	L/R	L/R	L/R	L/R	L/R	L/R	MIDDLE REAR - SEE A902	ADA - 32" TO UNDERSIDE OF HOOD	72" W, 24" DEPTH, 28" VERTICAL SASH OPENING	CONSTANT VOLUME CFM 785	TO 6" ABOVE EXISTING CEILING	YES

EQUIPMENT AND FITTINGS LEGEND

NOTE:	NOT ALL ITEMS APPEAR ON ALL SHEETS
E - LABORATORY EQUIPMENT	
E01	EXISTING FREESTANDING, SELF-CONTAINED NUGGET ICE MAKER - NIC
E02	UNDERCOUNTER LABORATORY GLASSWARE WASHER - LABCONCO STEAMSCRUBBER MODEL # 401001000 OR APPROVED EQUAL
E03	WALL-MOUNTED LABORATORY PEGBOARD W/ DRIP TROUGH (32"W X 30"H) - SEE 5A/A902
E04	AUTOMATIC WATER DISTILLER - 8 GALLONS PER DAY W/ 4 GALLON RESERVE TANK - DURASTILL MODEL 30J OR APPROVED EQUAL
E05	STEAM BOILER (BY PLUMBING CONTRACTOR) EXIST CONCRETE PAD TO REMAIN
L - LABORATORY DECK-MOUNTED FITTINGS AND SINKS (COORD CONNECTIONS W/ MEP CONTRACTORS)	
L01A	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X AIR SERVICE
L01G	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X GAS SERVICE
L01V	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X VACUUM SERVICE
L02A	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, SINGLE WIDE PEDESTAL W/ GFCI RECEPTACLES. RECEPTACLES TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02B	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02C	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS. PROVIDE BLANK AT SECOND FIXTURE EACH SIDE FOR OWNER'S DATA CONNECTION
L03	DECK MOUNTED COMBINATION WATER AND GAS FITTING; FAUCET W/ 6" SPREAD GOOSENECK AND REMOVEABLE AERATOR. TWO WAY TURRET W/ GAS OUTLET EACH SIDE.
L04	DECK-MOUNTED EMERGENCY EYE WASH AND DRENCH HOSE
L04A	DECK-MOUNTED ACCESSIBLE EMERGENCY EYE WASH
L05	DECK-MOUNTED MIXING FAUCET
L05A	DECK-MOUNTED MIXING FAUCET W/ ACCESSIBLE BLADE HANDLES
L06	INTEGRAL EPOXY RESIN CUP SINK (6" x 3" x 7.5")
L07	INTEGRAL EPOXY RESIN SINK (25" x 15" x 10")
L07A	INTEGRAL EPOXY RESIN ACCESSIBLE SINK (25" x 15" x 4.5-11" HIGH-LOW)
S - SAFETY EQUIPMENT	
S01	DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR.
S01A	ACCESSIBLE DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR.
S02	FIRE BLANKET CABINET W/ FIRE BLANKET
S03	TYPE A-B-C FIRE EXTINGUISHER W/ BRACKET MOUNT
S04	GAS CYLINDER WALL BRACKET - 8"L X 2"D X 4"H (1 CYLINDER CAPACITY)

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REVISIONS

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WESTMORELAND COUNTY COMMUNITY COLLEGE 145 PAVILLION LANE
YOUNGWOOD, PA. 15697

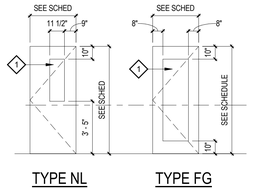
ENLARGED PLAN - RM 3401 & RM 3402

Proj No. 21-U04-01
Issue Date 01/20/2025

A104

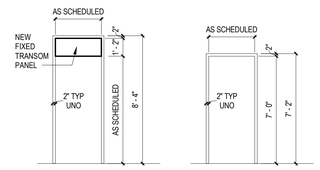
DOOR SCHEDULE

DOOR NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR PANEL			FRAME			RATING	HARDWARE SET	REMARKS
				TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	GLAZING			
3308/1	3' - 0"	7' - 0"	1 3/4"	FG	WD	1	1 (EXIST)	EXIST	---	90 MIN	1	NEW TRANSOM PANEL IN EXISTING HOLLOW METAL FRAME. EXISTING DOOR FRAME TO BE PAINTED.
3400/1	3' - 0"	7' - 0"	1 3/4"	FG	WD	1	1 (EXIST)	EXIST	---	90 MIN	1	NEW TRANSOM PANEL IN EXISTING HOLLOW METAL FRAME. EXISTING DOOR FRAME TO BE PAINTED.
3401/1	3' - 0"	7' - 0"	1 3/4"	FG	WD	1	1 (EXIST)	EXIST	---	90 MIN	1	NEW TRANSOM PANEL IN EXISTING HOLLOW METAL FRAME. EXISTING DOOR FRAME TO BE PAINTED.
3401/2	3' - 0"	7' - 0"	1 3/4"	EXIST	EXIST	EXIST	2 (EXIST)	EXIST	---	EXIST	4	EXISTING DOOR AND FRAME TO BE PAINTED
3402/1	3' - 0"	7' - 0"	1 3/4"	NL	WD	1	2 (EXIST)	EXIST	---	90 MIN	3	EXISTING DOOR FRAME TO BE PAINTED
3403/1	3' - 0"	7' - 0"	1 3/4"	NL	WD	1	2 (EXIST)	EXIST	---	90 MIN	3	EXISTING DOOR FRAME TO BE PAINTED
3403/2	3' - 0"	7' - 0"	1 3/4"	NL	WD	1	2 (EXIST)	EXIST	---	90 MIN	3	EXISTING DOOR FRAME TO BE PAINTED
3403/3	3' - 0"	7' - 0"	1 3/4"	NL	WD	1	3 (NEW)	HM	---	90 MIN	2	
3404/1	3' - 0"	7' - 0"	1 3/4"	NL	WD	1	3 (NEW)	HM	---	90 MIN	3	
3404/2	3' - 0"	7' - 0"	1 3/4"	NL	WD	1	3 (NEW)	HM	---	90 MIN	3	



TYPE NL TYPE FG

ARCH - DOOR TYPES



1 (EXIST)
EXIST FRAME WITH NEW FIXED WOOD TRANSOM PANEL (FINISH PANEL AND RATING TO MATCH DOOR)

2 (EXIST)
EXIST FRAME

3 (NEW)
NEW HM FRAME

ARCH - FRAME TYPES

LIST OF DOOR ABBREVIATIONS

ALUM	ALUMINUM
BD	BARN DOOR
ELEV	ELEVATION(S)
EXIST	EXISTING
F	FLUSH
FAC	FACTORY
FG	FULL GLASS
(FV)	FIELD VERIFY
FR	FIRE RATED
FRSG	FIRE RATED SAFETY GLAZING
GL	GLAZING
HM	HOLLOW METAL
HR	HOUR
INSUL	INSULATED
PR	PAIR
PNT	PAINT
PNL	PANEL
TEMP	TEMPERED
SCWD	SOLID CORE WOOD
SD	SLIDING DOOR
S + V	STAIN AND VARNISH
WFC	WOOD-FRAMED CURTAINWALL SYSTEM

NOTES - GENERAL DOOR NOTES

1. ALL NEW WOOD DOORS TO MATCH EXISTING WITH A CUSTOM STAIN. ARCHITECT TO SELECT A SAMPLE DOOR FOR GC TO MATCH.
2. EXISTING DOORS AND FRAMES TO REMAIN TO BE REPAIRED, FILLED, FILED, SANDED, PRIMED, AND PAINTED, PNT-3.
3. APPLIED STOPS SHALL BE ON INTERIOR/LOCKED (ROOM) SIDE OF HOLLOW METAL FRAME - TYPICAL.
4. ALL RATED OPENINGS SHALL HAVE MATCHING RATED FRAMES, AND HAVE UL LISTED DOOR HARDWARE. LABELED TAGS SHALL NOT BE PAINTED.
5. GENRAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
6. DOOR HARDWARE SET TYPES LISTED TO INDICATE DOOR OPERATION AND ANY SPECIAL CONDITIONS FOR THE DOOR TYPE. FOR EACH HARDWARE SET TYPE PROVIDE ALL REQUIRED DOOR HARDWARE FOR A FULLY FUNCTIONAL DOOR - INCLUDING LATCH SETS, LEVERS, HINGES, CLOSERS, LOCK AND LATCH STRIKES, DOOR STOPS, GASKETING AND TRIM, ETC.
7. DOOR HARDWARE MAKE, MODEL, STYLE, AND FINISHES TO MATCH EXISTING STANDARDS.
8. ALL NEW HM DOOR FRAMES TO BE PAINTEED , PNT-3.

ARCH - GLAZING LEGEND

TYP INTERIOR UNO

1 1/4" TEMPERED GLASS - 90 MIN

MATERIALS LIST

ACOUSTICAL CEILING TILE

ACT-1 = ARMSTRONG
STYLE: CALLA
SIZE: 2' x 4' w/ 9/16" GRID
FOR PATCHING / MATCH EXISTING

RUBBER BASE

RB-1 = JOHNSONITE/TARKETT
TRADITIONAL COVE
SIZE: 4"
COLOR: CHARCOAL
OUTSIDE CORNERS: PREMOLDED

RUBBER FLOORING

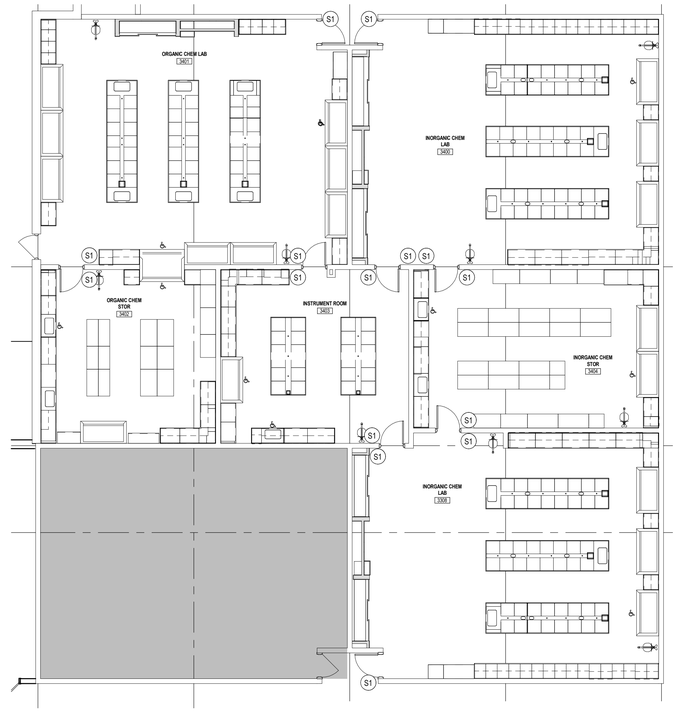
RF-1 = NORA FLOORING
NORAPLAN ENVIRONCARE
COLOR: 7037 FUN RUN
SIZE: 24" X 24"
THICKNESS: 3MM
*NOTE - APPLY VAPOR CONTROL TO EXISTING CONCRETE SLAB PRIOR TO FLOORING INSTALLATION. SEE SPECIFICATIONS FOR MORE DETAIL.

PAINT

PNT-1 = SHERWIN WILLIAMS
COLOR: HERON PLUME SW 6070
LOCATION: FIELD

PNT-2 = SHERWIN WILLIAMS
COLOR: REGATTA SW 6517
LOCATION: ACCENT

PNT-3 = SHERWIN WILLIAMS
COLOR: DOVETAIL SW 7018
LOCATION: HOLLOW METAL DOORS/ FRAMES

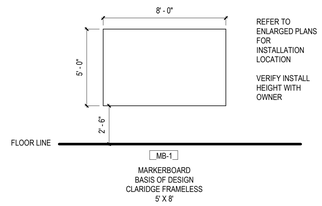


3 A601 FIRST FLOOR - SIGNAGE PLAN
SCALE: 1/8" = 1'-0"

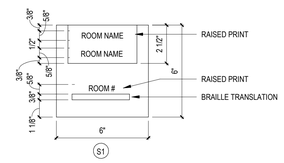
ROOM FINISH SCHEDULE

ROOMS				WALLS					
NUM	NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING	COMMENTS
3308	INORGANIC CHEM LAB	RF-1	RB-1	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	ACT-1/ PATCH AS NEEDED	
3400	INORGANIC CHEM LAB	RF-1	RB-1	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	ACT-1/ PATCH AS NEEDED	
3401	ORGANIC CHEM LAB	RF-1	RB-1	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	ACT-1/ PATCH AS NEEDED	
3402	ORGANIC CHEM STOR	RF-1	RB-1	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	ACT-1/ PATCH AS NEEDED	
3403	INSTRUMENT ROOM	RF-1	RB-1	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	ACT-1/ PATCH AS NEEDED	
3404	INORGANIC CHEM STOR	RF-1	RB-1	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	PNT-1/PNT-2	ACT-1/ PATCH AS NEEDED	

1 A601 TYPICAL WALL FINISH ELEVATION
SCALE: 3/8" = 1'-0"



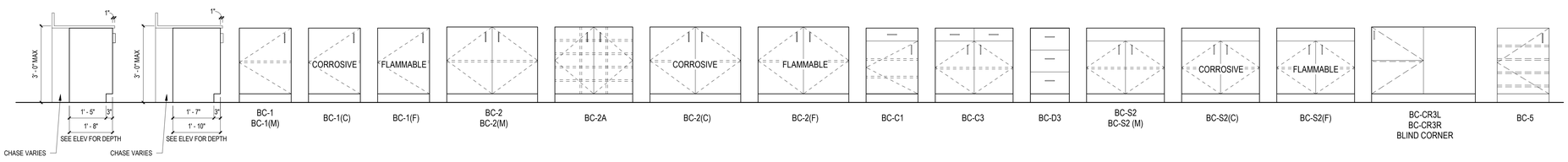
2 A601 TYPICAL VISUAL DISPLAY BOARDS
SCALE: 1/4" = 1'-0"



4 A601 SIGNAGE TYPE
SCALE: 3" = 1'-0"

GENERAL SIGNAGE NOTES

1. PROVIDE BACKER PLATES WHERE SIGNS ARE MOUNTED ON GLASS.
2. COORDINATE IN THE FIELD, ALL SIGNAGE PLACEMENT WITH THE ARCHITECT.
3. MOUNTING HEIGHT TO BE 60" ABOVE FLOOR MAX TO BASELINE OF HIGHEST TACTILE CHARACTER; MOUNT ON LATCH SIDE; SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18" MIN X 18" MIN, CENTERED ON THE TACTILE CHARACTERS. IF MIN. CLEAR FLOOR AREA IS NOT AVAILABLE AT LATCH SIDE, LOCATE SIGN ON NEAREST ADJACENT WALL WITH CLEAR FLOOR AREA.
4. SIGN LAYOUT, SIZE, AND COLOR TO BE APPROVED BY ARCHITECT.
5. FOR FINISH SELECTION SEE COLOR SCHEDULE, TBD BY ARCHITECT.
6. SIGNS TO BE FABRICATED AND INSTALLED IN COMPLIANCE WITH ICC A117.1. 2009.
7. ALL TEXT AND SYMBOLS TO BE RAISED UNO.
8. ALL SIGNAGE TYPE, ROOM NAME, AND ROOM NUMBER TO BE COORDINATED WITH THE ARCHITECT.



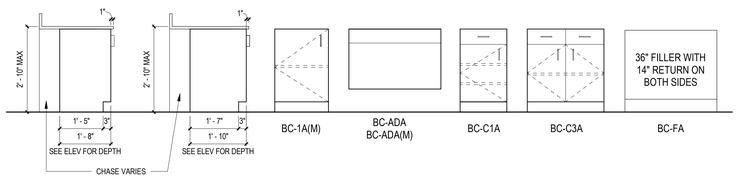
TYPICAL CASEWORK DESIGNATION NOTES

DESIGNATES CABINET CATEGORY (SEE A601) — XX - XX — # DESIGNATES CABINET TYPE (SEE A601)
DESIGNATES CASEWORK WIDTH (SEE ELEVATIONS) — X

(C) = CORROSIVE
(F) = FLAMMABLE
(M) = METAL
* IF NO DESIGNATION, CABINET TO BE WOOD

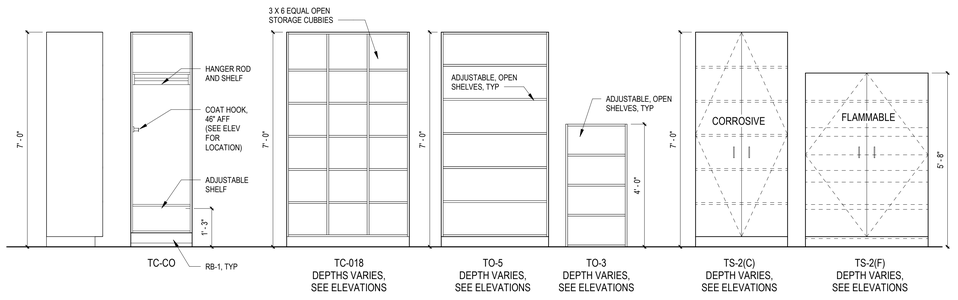
BASE CABINETS (STANDARD HEIGHT)

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



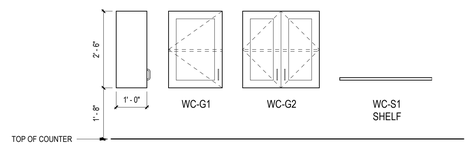
BASE CABINETS (ACCESSIBLE HEIGHT)

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



TALL CABINETS

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



WALL CABINETS

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

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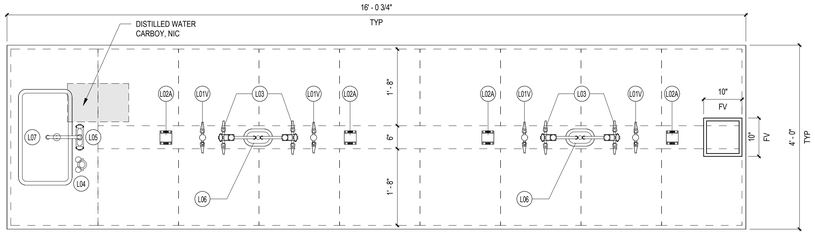
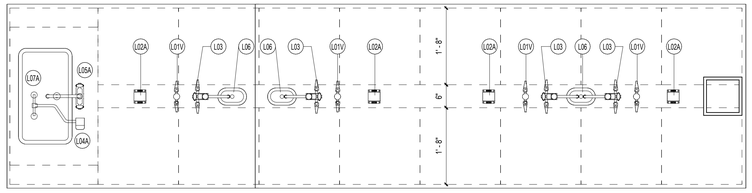
DOOR & FINISH SCHEDULE AND DETAILS

Proj No. 21-U04-01
Issue Date 01/20/2025

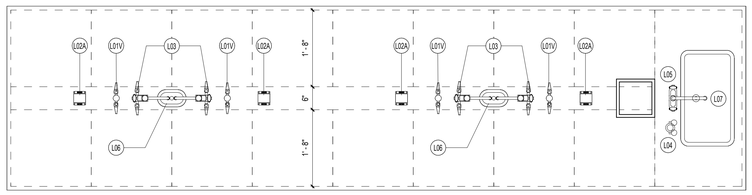
A601



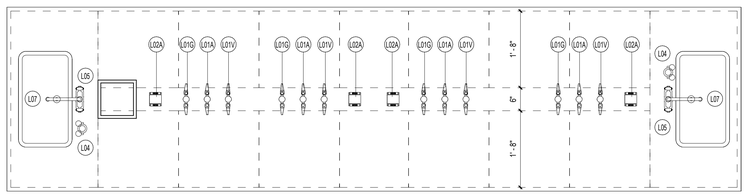
1 A901 PLAN - LAB BENCH TYPE A
SCALE: 3/4" = 1'-0"



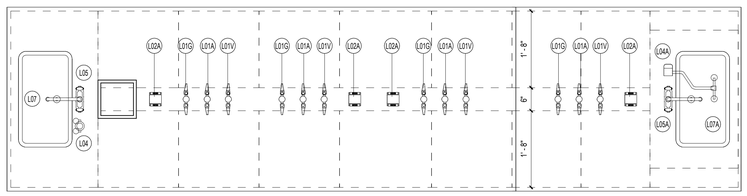
3 A901 PLAN - LAB BENCH TYPE B (ACCESSIBLE)
SCALE: 3/4" = 1'-0"



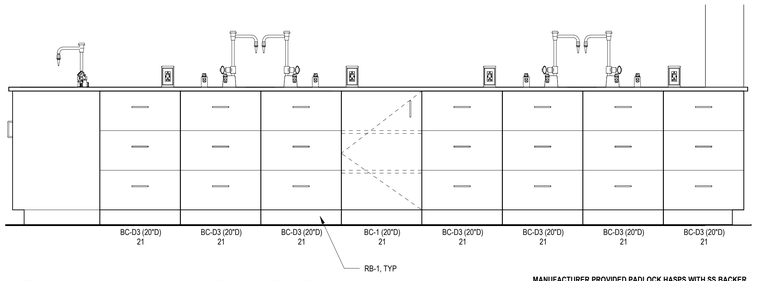
5 A901 PLAN - LAB BENCH TYPE C
SCALE: 3/4" = 1'-0"



7 A901 PLAN - LAB BENCH TYPE D
SCALE: 3/4" = 1'-0"

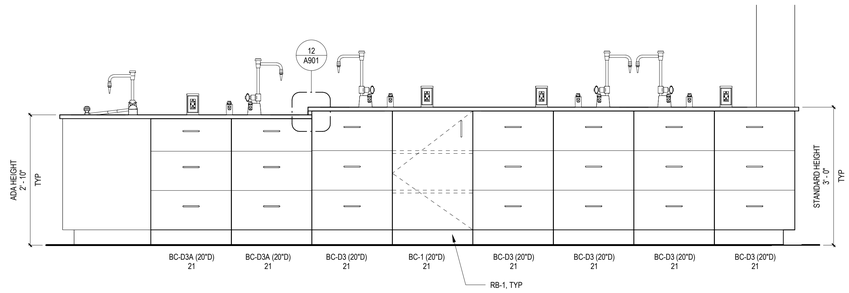


9 A901 PLAN - LAB BENCH TYPE E (ACCESSIBLE)
SCALE: 3/4" = 1'-0"



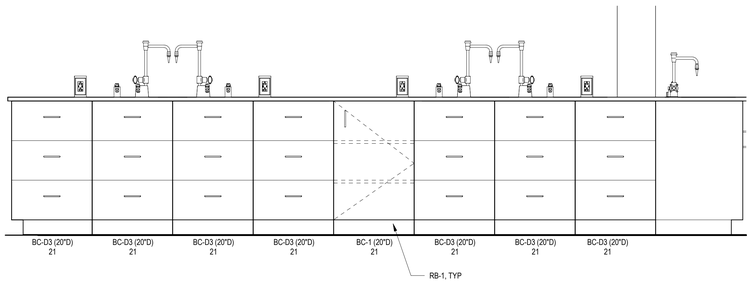
4 A901 ELEVATION - LAB BENCH TYPE A
SCALE: 3/4" = 1'-0"

MANUFACTURER PROVIDED PADLOCK HASPS WITH SS BACKER PLATE AT ALL BASE CABINET DRAWERS THIS ELEVATION

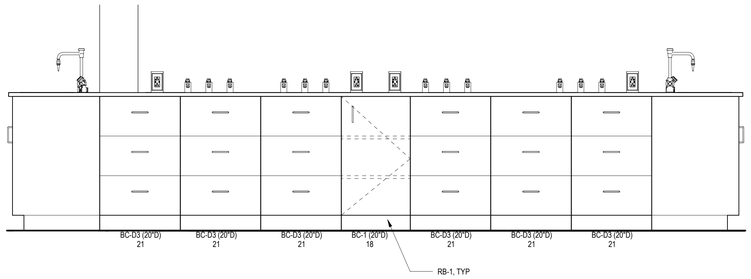


2 A901 ELEVATION - LAB BENCH TYPE B (ACCESSIBLE)
SCALE: 3/4" = 1'-0"

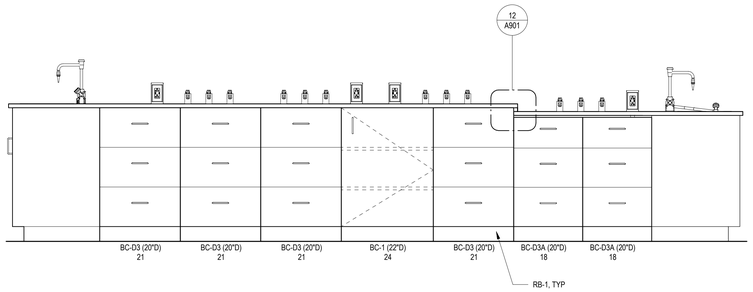
MANUFACTURER PROVIDED PADLOCK HASPS WITH SS BACKER PLATE AT ALL BASE CABINET DRAWERS THIS ELEVATION



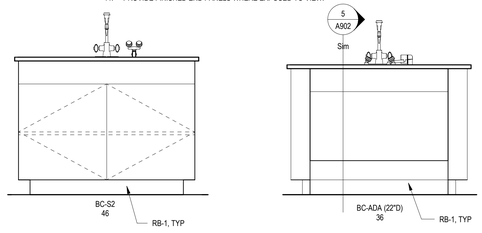
6 A901 ELEVATION - LAB BENCH TYPE C
SCALE: 3/4" = 1'-0"



8 A901 ELEVATION - LAB BENCH TYPE D
SCALE: 3/4" = 1'-0"

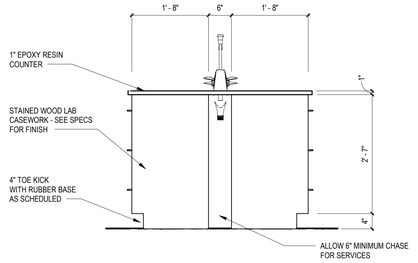


10 A901 ELEVATION - LAB BENCH TYPE E (ACCESSIBLE)
SCALE: 3/4" = 1'-0"

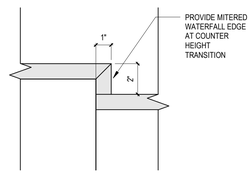


13 A901 ELEVATION - 1
SCALE: 3/4" = 1'-0"

14 A901 ELEVATION 1 - A1
SCALE: 3/4" = 1'-0"



11 A901 TYPICAL LAB BENCH SECTION DETAIL
SCALE: 3/4" = 1'-0"



12 A901 TYPICAL COUNTER EDGE PROFILE DETAIL
SCALE: 3" = 1'-0"

EQUIPMENT AND FITTINGS LEGEND

NOTE:	NOT ALL ITEMS APPEAR ON ALL SHEETS
E - LABORATORY EQUIPMENT	
E01	EXISTING FREESTANDING, SELF-CONTAINED NUGGET ICE MAKER - NIC
E02	UNDERCOUNTER LABORATORY GLASSWARE WASHER - LABCONCO STEAMSCRUBBER MODEL # 401001000 OR APPROVED EQUAL
E03	WALL-MOUNTED LABORATORY PEGBOARD W/ DRIP TROUGH (32"W X 30"H) - SEE 5A/A902
E04	AUTOMATIC WATER DISTILLER - 8 GALLONS PER DAY W/ 4 GALLON RESERVE TANK - DURASTILL MODEL 30J OR APPROVED EQUAL
E05	STEAM BOILER (BY PLUMBING CONTRACTOR) EXIST CONCRETE PAD TO REMAIN
L - LABORATORY DECK-MOUNTED FITTINGS AND SINKS (COORD CONNECTIONS W/ MEP CONTRACTORS)	
L01A	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X AIR SERVICE
L01G	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X GAS SERVICE
L01V	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X VACUUM SERVICE
L02A	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, SINGLE WIDE PEDESTAL W/ GFCI RECEPTACLES. RECEPTACLES TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02B	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02C	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS. PROVIDE BLANK AT SECOND FIXTURE EACH SIDE FOR OWNER'S DATA CONNECTION
L03	DECK MOUNTED COMBINATION WATER AND GAS FITTING; FAUCET W/ 6" SPREAD GOOSENECK AND REMOVEABLE AERATOR. TWO WAY TURRET W/ GAS OUTLET EACH SIDE.
L04	DECK-MOUNTED EMERGENCY EYE WASH AND DRENCH HOSE
L04A	DECK-MOUNTED ACCESSIBLE EMERGENCY EYE WASH
L05	DECK-MOUNTED MIXING FAUCET
L05A	DECK-MOUNTED MIXING FAUCET W/ ACCESSIBLE BLADE HANDLES
L06	INTEGRAL EPOXY RESIN CUP SINK (6" x 3" x 7.5")
L07	INTEGRAL EPOXY RESIN SINK (25" x 15" x 10")
L07A	INTEGRAL EPOXY RESIN ACCESSIBLE SINK (25" x 15" x 4.5-11" HIGH-LOW)
S - SAFETY EQUIPMENT	
S01	DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR.
S01A	ACCESSIBLE DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR.
S02	FIRE BLANKET CABINET W/ FIRE BLANKET
S03	TYPE A-B-C FIRE EXTINGUISHER W/ BRACKET MOUNT
S04	GAS CYLINDER WALL BRACKET - 8"L X 2"D X 4"H (1 CYLINDER CAPACITY)

GENERAL INTERIOR / CASEWORK NOTES

1. PROVIDE STANDARD LOCKS AT ALL CABINETS UNLESS NOTED OTHERWISE. KEY ALIKE PER ROOM AND MASTER KEY FOR PROJECT.
2. VERIFY EQUIPMENT SIZES, WEIGHTS, AND CLEARANCES AND ADJUST CASEWORK ACCORDINGLY.
3. PROVIDE FILLER PANELS FOR ALL CASEWORK AND SCRIBE TO WALL.
4. ALL COUNTERTOPS TO BE 1" EPOXY RESIN UNLESS NOTED OTHERWISE. PROVIDE 4" HIGH MATCHING EPOXY RESIN BACKSPLASH AGAINST ALL WALLS AND AS NOTED.
5. REFER TO SPECIFICATIONS FOR WOOD CASEWORK SPECIES, FINISH, AND HARDWARE TYPES.
6. INSTALL RB-1 RESILIENT BASE ON THE BASE OF ALL CASEWORK.
7. PAPER TOWEL DISPENSERS AND SOAP DISPENSERS AT EACH SINK LOCATION TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
8. FOR CASEWORK DEPTHS NOT SHOWN IN ELEVATION, SEE A601.
9. GC TO VERIFY EXACT MOUNTING LOCATIONS OF ALL ACCESSORIES IN THE FIELD WITH THE ARCHITECT PRIOR TO INSTALLATION.
10. GC SHALL PROVIDE AND INSTALL ADDITIONAL FRAMING AND BLOCKING AS REQUIRED FOR ACCESSORY INSTALLATIONS IN STUD WALL AND GPBD PARTITIONS PER THE ACCESSORY MANUFACTURER'S RECOMMENDATIONS.
11. PROVIDE FINISHED END PANELS WHERE EXPOSED TO VIEW.

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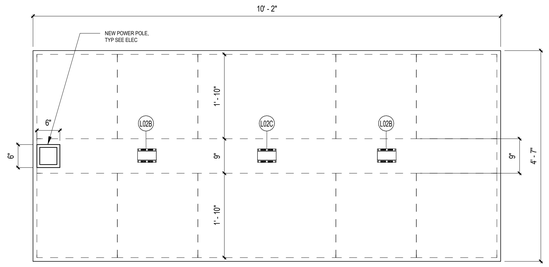
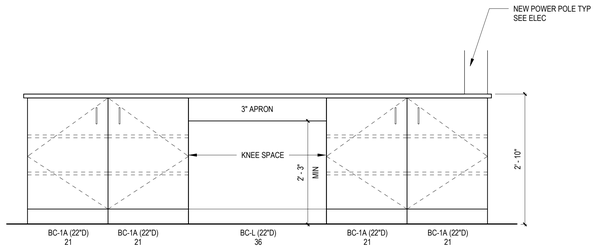
ENLARGED PLANS - LAB BENCH

Proj No. 21-U04-01
Issue Date 01/20/2025

A901

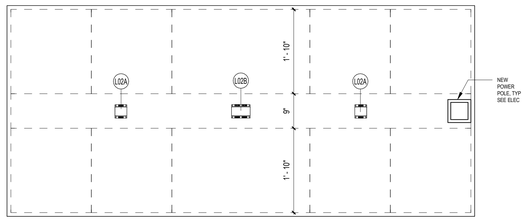


1 A902 INSTRUMENT BENCH TYPE F
SCALE: 3/4" = 1'-0"

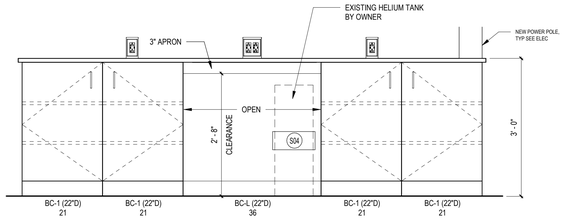


2 A902 ELEVATION - LAB BENCH TYPE F
SCALE: 3/4" = 1'-0"

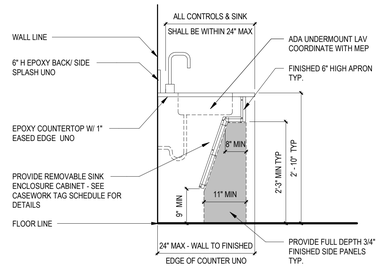
EQUIPMENT AND FITTINGS LEGEND	
NOTE:	NOT ALL ITEMS APPEAR ON ALL SHEETS
E - LABORATORY EQUIPMENT	
E01	EXISTING FREESTANDING, SELF-CONTAINED NUGGET ICE MAKER - NIC
E02	UNDERCOUNTER LABORATORY GLASSWARE WASHER - LABCONCO STEAMSCRUBBER MODEL # 40100100 OR APPROVED EQUAL
E03	WALL-MOUNTED LABORATORY PEGBOARD W/ DRIP TROUGH (32"W X 30"H) - SEE 5A/A902
E04	AUTOMATIC WATER DISTILLER - 8 GALLONS PER DAY W/ 4 GALLON RESERVE TANK - DURASTILL MODEL 30J OR APPROVED EQUAL
E05	STEAM BOILER (BY PLUMBING CONTRACTOR) EXIST CONCRETE PAD TO REMAIN
L - LABORATORY DECK-MOUNTED FITTINGS AND SINKS (COORD CONNECTIONS W/ MEP CONTRACTORS)	
L01A	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X AIR SERVICE
L01G	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X GAS SERVICE
L01V	DECK-MOUNTED LABORATORY BALL VALVES - 2-WAY 180 DEG. OUTLET TURRET W/ 2X VACUUM SERVICE
L02A	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, SINGLE WIDE PEDESTAL W/ GFCI RECEPTACLES. RECEPTACLES TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02B	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS
L02C	DECK-MOUNTED ELECTRICAL FIXTURE - DOUBLE-FACED, DOUBLE WIDE PEDESTAL W/ GFCI RECEPTACLES. 1 RECEPTACLE EACH FACE TO INCLUDE USB-A AND USB-C POWER CONNECTIONS. PROVIDE BLANK AT SECOND FIXTURE EACH SIDE FOR OWNERS DATA CONNECTION
L03	DECK MOUNTED COMBINATION WATER AND GAS FITTING; FAUCET W/ 6" SPREAD GOOSENECK AND REMOVEABLE AERATOR. TWO WAY TURRET W/ GAS OUTLET EACH SIDE.
L04	DECK-MOUNTED EMERGENCY EYE WASH AND DRENCH HOSE
L04A	DECK-MOUNTED ACCESSIBLE EMERGENCY EYE WASH
L05	DECK-MOUNTED MIXING FAUCET
L05A	DECK-MOUNTED MIXING FAUCET W/ ACCESSIBLE BLADE HANDLES
L06	INTEGRAL EPOXY RESIN CUP SINK (6" x 3" x 7.5")
L07	INTEGRAL EPOXY RESIN SINK (25" x 15" x 10")
L07A	INTEGRAL EPOXY RESIN ACCESSIBLE SINK (25" x 15" x 4.5-11" HIGH-LOW)
S - SAFETY EQUIPMENT	
S01	DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR.
S01A	ACCESSIBLE DRENCH SHOWER AND EYE WASH COMBINATION. COORD CONNECTIONS W/ PLUMBING CONTRACTOR.
S02	FIRE BLANKET CABINET W/ FIRE BLANKET
S03	TYPE A-B-C FIRE EXTINGUISHER W/ BRACKET MOUNT
S04	GAS CYLINDER WALL BRACKET - 8'L X 2'D X 4'H (1 CYLINDER CAPACITY)



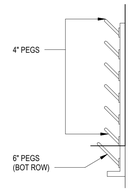
3 A902 INSTRUMENT BENCH TYPE G
SCALE: 3/4" = 1'-0"



4 A902 ELEVATION - LAB BENCH TYPE G
SCALE: 3/4" = 1'-0"



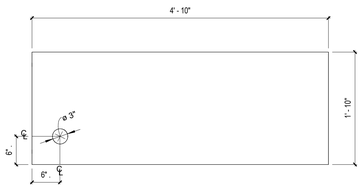
5 A902 TYP ADA SINK DETAIL
SCALE: 3/4" = 1'-0"



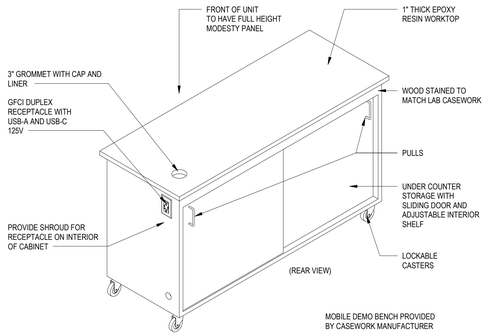
5A A902 DRAINING RACK
SCALE: 1" = 1'-0"

GENERAL INTERIOR / CASEWORK NOTES

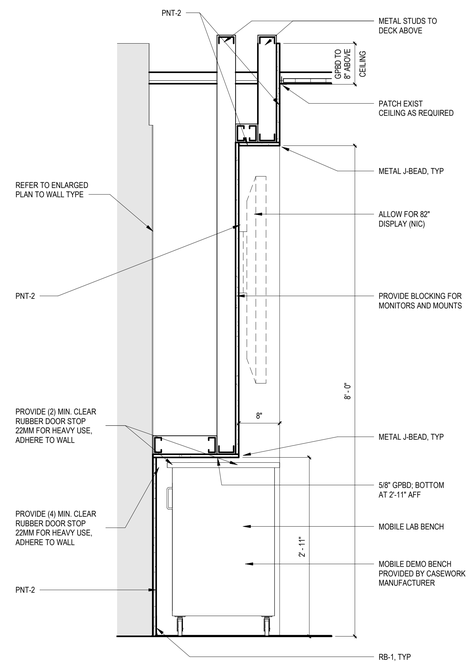
1. PROVIDE STANDARD LOCKS AT ALL CABINETS UNLESS NOTED OTHERWISE. KEY ALIKE PER ROOM AND MASTER KEY FOR PROJECT.
2. VERIFY EQUIPMENT SIZES, WEIGHTS, AND CLEARANCES AND ADJUST CASEWORK ACCORDINGLY.
3. PROVIDE FILLER PANELS FOR ALL CASEWORK AND SCRIBE TO WALL.
4. ALL COUNTERTOPS TO BE 1" EPOXY RESIN UNLESS NOTED OTHERWISE. PROVIDE 4" HIGH MATCHING EPOXY RESIN BACKSPLASH AGAINST ALL WALLS AND AS NOTED.
5. REFER TO SPECIFICATIONS FOR WOOD CASEWORK SPECIES, FINISH, AND HARDWARE TYPES.
6. INSTALL RB-1 RESILIENT BASE ON THE BASE OF ALL CASEWORK.
7. PAPER TOWEL DISPENSERS AND SOAP DISPENSERS AT EACH SINK LOCATION TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
8. FOR CASEWORK DEPTHS NOT SHOWN IN ELEVATION, SEE A601.
9. GC TO VERIFY EXACT MOUNTING LOCATIONS OF ALL ACCESSORIES IN THE FIELD WITH THE ARCHITECT PRIOR TO INSTALLATION.
10. GC SHALL PROVIDE AND INSTALL ADDITIONAL FRAMING AND BLOCKING AS REQUIRED FOR ACCESSORY INSTALLATIONS IN STUD WALL AND GPBD PARTITIONS PER THE ACCESSORY MANUFACTURER'S RECOMMENDATIONS.
11. PROVIDE FINISHED END PANELS WHERE EXPOSED TO VIEW.



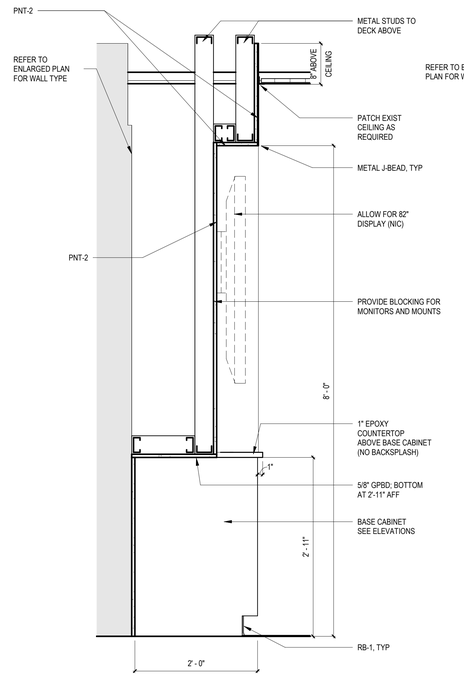
6 A902 MOBILE DEMO BENCH- PLAN
SCALE: 1" = 1'-0"



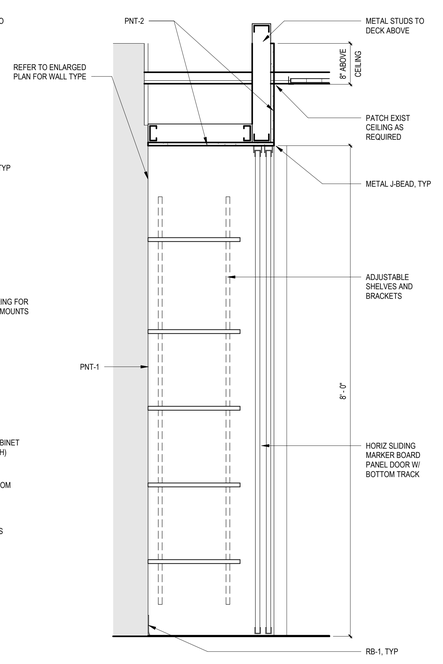
7 A902 MOBILE DEMO BENCH - ISOMETRIC
NOT TO SCALE



8 A902 SECTION AT DISPLAY ABOVE MOBILE CART
SCALE: 1" = 1'-0"



9 A902 SECTION AT DISPLAY ABOVE CABINET
SCALE: 1" = 1'-0"



10 A902 SECTION AT MARKERBOARD
SCALE: 1" = 1'-0"

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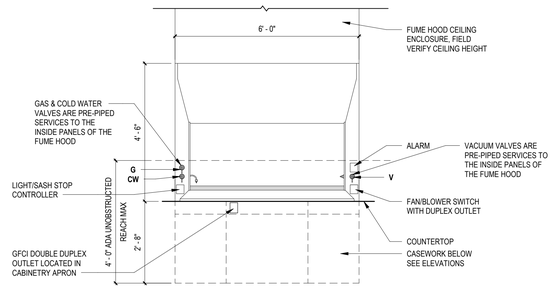
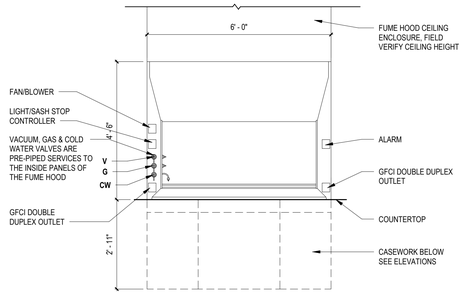
ENLARGED PLANS - LAB BENCH

Proj No. 21-U04-01
Issue Date 01/20/2025

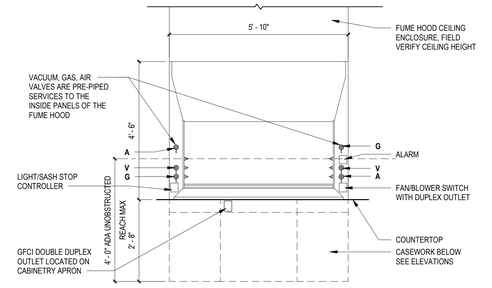
A902



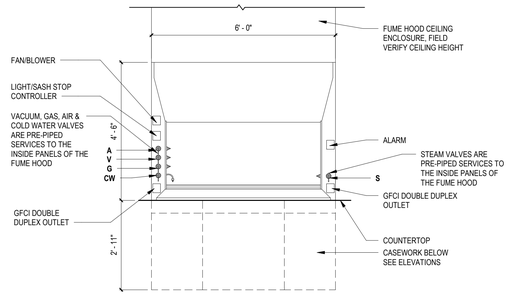
1 A903 **H1 - ADA FUME HOOD ELEVATION**
SCALE: 1/2" = 1'-0"



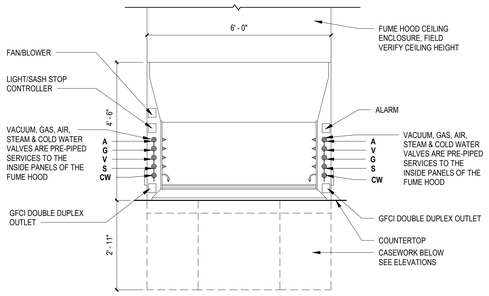
2 A903 **H2 - FUME HOOD ELEVATION**
SCALE: 1/2" = 1'-0"



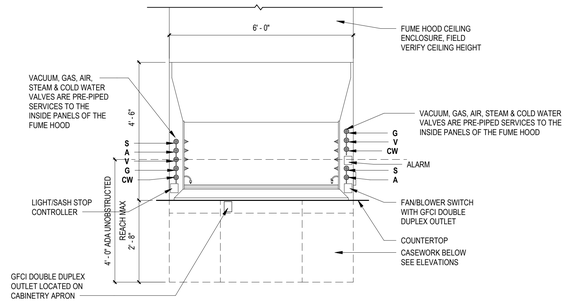
3 A903 **H3 - ADA FUME HOOD ELEVATION**
SCALE: 1/2" = 1'-0"



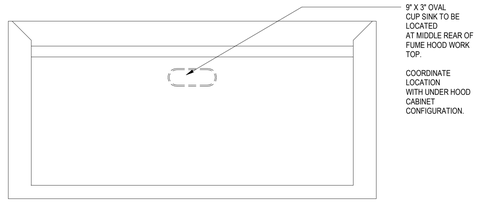
4 A903 **H4 - FUME HOOD ELEVATION**
SCALE: 1/2" = 1'-0"



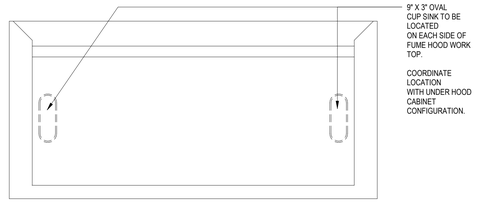
5 A903 **H5 - FUME HOOD ELEVATION**
SCALE: 1/2" = 1'-0"



6 A903 **H6 - ADA FUME HOOD ELEVATION**
SCALE: 1/2" = 1'-0"



7 A903 **TYPICAL FUME HOOD CUP SINK LOCATION**
SCALE: 1" = 1'-0"



8 A903 **H3 FUME HOOD CUP SINK LOCATION**
SCALE: 1" = 1'-0"

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FUME HOOD PLAN & ELEVATIONS

Proj No. 21-U04-01
Issue Date 01/20/2025

A903

HVAC SYMBOLS & ABBREVIATIONS

SHEET METAL SYMBOLS

- SUPPLY AIR DUCT TURNED UP
- SUPPLY AIR DUCT TURNED DOWN
- RETURN, EXHAUST OR RELIEF AIR DUCT TURNED UP
- RETURN, EXHAUST OR RELIEF AIR DUCT TURNED DOWN
- RETURN, EXHAUST OR RELIEF AIR DUCT PENETRATION THRU ROOF
- SUPPLY AIR DUCT PENETRATION THRU ROOF
- DIRECTION OF AIR FLOW ARROW
- 24/12 — RECTANGULAR DUCT. DIMENSION IS FREE AREA. REFER TO PROJECT MANUAL FOR DUCT LINER REQUIREMENTS. ADD LINER THICKNESS TO EACH DIMENSION TO GET OUTSIDE DIMENSION OF SHEET METAL. (1ST FIGURE, SIDE SHOWN; 2ND FIGURE, SIDE NOT SHOWN.)
- RECTANGULAR MAIN DUCT WITH 45° CLINCH COLLAR, AND VOLUME DAMPER IN SUB-DUCT. (PER SMACNA DUCT CONSTRUCTION STANDARDS)
- 12"Ø — ROUND DUCT. SINGLE WALL. FOR DOUBLE WALL DUCT REQUIREMENTS, SEE SPECIFICATION AND/OR SEE CODED NOTES ON PLANS.
- ROUND MAIN DUCT WITH 90° TAP OR 90° SADDLE TAP AND VOLUME DAMPER IN SUB-DUCT. (PER SMACNA DUCT CONSTRUCTION STANDARDS)
- 16/12, 24/12 — TRANSITIONS. GIVE SIZES. NOTE F.O.T. (FLAT ON TOP), OR F.O.B. (FLAT ON BOTTOM) IF APPLICABLE.
- OR — ACCESS DOOR (AD) OR ACCESS PANEL (AP) AS NOTED.
- UP (or DN) — INCLINED RISE (UP) OR DROP (DN). ARROW IN DIRECTION OF AIR FLOW.
- DD — DUCT MOUNTED SMOKE DETECTOR
- VOLUME DAMPER
- BDD CBBDD — BACKDRAFT DAMPER (BDD) COUNTER BALANCED BACKDRAFT DAMPER (CBBDD)
- AAD — AUTOMATIC AIR DAMPER
- FD F/SD SD — FIRE DAMPER (FD) FIRE/SMOKE DAMPER (F/SD) SMOKE DAMPER (SD)
- FLEXIBLE DUCT CONNECTION TO FAN (OR EQUIP. WITH FAN)
- FLEXIBLE DUCT
- FLEXIBLE DUCT CONNECTION, WITH EQUIVALENT 90° ELBOW, TO ROUND DIFFUSER.
- FLEXIBLE DUCT OR ROUND HARD METAL DUCT CONNECTION, WITH NO 90° ELBOW, TO ROUND DIFFUSER.
- FLEXIBLE DUCT CONNECTION, WITH ONE EQUIVALENT 90° TURN OR OFFSET, TO SQUARE DIFFUSER.
- FLEXIBLE DUCT OR ROUND HARD METAL DUCT CONNECTION, WITH NO 90° ELBOW, TO SQUARE DIFFUSER.
- DIRECTION DIFFUSER (SLD). DARKENED QUADRANT(S) NO AIR FLOW. 3-WAY BLOW SHOWN.
- ROUND DUCT
- FLAT OVAL DUCT
- DIRECTION OF AIR FLOW IN OR OUT OF EQUIPMENT OR AN AIR TERMINAL DEVICE.

PIPING SYMBOLS

Symbol	Description
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CW	COLD (CITY) WATER PIPING
CD	COIL CONDENSATE DRAIN
D	DRAIN
G	NATURAL GAS PIPING
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
LPG	LIQUID PROPANE GAS PIPING
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM
PD	PUMPED DISCHARGE PIPING (FROM CONDENSATE PUMP)
RG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	PIPING TURNED UP
	PIPING TURNED DOWN
	90° RISE OR DROP IN PIPE
	45° RISE OR DROP IN PIPE
	PIPE TAKEOFF FROM TOP OF MAIN
	PIPE TAKEOFF FROM BOTTOM OF MAIN
	PIPE TAKEOFF FROM SIDE OF MAIN
GV / GV	GATE VALVE
BV	BALL VALVE
GV	GLOBE VALVE
PV	PLUG VALVE
	BUTTERFLY VALVE
	DRAIN VALVE WITH HOSE CONNECTION
	CHECK VALVE
GPM	FLOW CONTROL VALVE WITH GPM INDICATED WHEN LOCATED IN MAINS OR SERVING MULTIPLE UNITS. WHEN SERVING SINGLE-UNIT, REFER TO EQUIPMENT SCHEDULES.
PRV	PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE WITH BUILT-IN CHECK VALVE
	UNION
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AIR VENT. INSTALL AT ALL HIGH POINTS IN SYSTEM. AAV-AUTOMATIC. MAV-MANUAL. EXTEND DRAIN LINE FROM ALL AUTOMATIC AIR VENTS TO NEAREST CONDENSATE DRAIN LINE OR SAFEWASTE.
PG	PRESSURE GAUGE AND COCK
	THERMOMETER
	WELL IN PIPING
	PRESSURE/TEMPERATURE TEST PORT
	HOSE BIBB
	HOSE BIBB W/CAP
	STRAINER
	STRAINER WITH BLOWDOWN AND HOSE CONNECTION (HOSE BIBB)
	STRAINER WITH BLOWDOWN, BALL VALVE W/NIPPLE & CAP.
	PIPE REDUCER
	FLEXIBLE PIPE CONNECTIONS
	DIRECTION OF PIPE SLOPE (DOWN)
	DIRECTION OF FLOW IN PIPE
	EXPANSION COMPENSATOR AND GUIDES
	PIPE ANCHOR
FS	FLOW SWITCH
	FLOW CONTROL VALVE
	TEST PLUG
	WATER FLOW MEASURING DEVICE

GENERAL DRAWING SYMBOLS

- POINT OF CONNECTION - NEW TO EXISTING
- DEMOLITION LIMIT
- NO — CODED NOTE
  'NO' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION
- ID-NO — EQUIPMENT TAG
  (REFER TO APPROPRIATE SCHEDULE)
  'ID' DENOTES EQUIPMENT TYPE (I.E. EF=EXHAUST FAN)
  'NO' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION
- S / ID / CFM — DIFFUSER, REGISTER, GRILLE TAG
  (REFER TO APPROPRIATE SCHEDULE)
  'ID' DENOTES DIFFUSER, REGISTER, GRILLE TYPE
  (I.E. SCD=SQUARE CONE DIFFUSER)
  'S' DENOTES NECK SIZE AND BLOW PATTERN
  (I.E. 123=12" Ø OR 12"x12" NECK WITH 3-WAY BLOW PATTERN)
  'CFM' INDICATES AIR FLOW RATE IN CFM
- NO / D1 D2 — SECTION INDICATOR
  'NO' DENOTES SEQUENTIAL ALPHABETIC DESIGNATION
  'D1' DENOTES DRAWING ON WHICH SECTION CUT
  'D2' DENOTES DRAWING ON WHICH SECTION IS LOCATED
- NO / DWG — DETAIL INDICATOR
  'NO' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION
  'DWG' DENOTES DRAWING ON WHICH DETAIL IS LOCATED
- NO/DWG — ELEVATION/VIEW INDICATOR
  'NO' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION
  'D' DENOTES DRAWING ON WHICH ELEVATION/VIEW IS LOCATED
- # — REVISION INDICATOR
  'NO' DENOTES REVISION LEVEL

CONTROL SYMBOLS

Symbol	Description
$\$_F$	PILOT SWITCH (FAN CONTROL)
C	VARIABLE SPEED CONTROLLER
P	PUSH BUTTON CONTROLLER WITH PILOT LIGHT
H	HUMIDISTAT OR HUMIDITY SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR
T_N	NIGHT THERMOSTAT
S	COMBINATION SENSOR, REFER TO ATC SPEC FOR DETAILS
CO_2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR

GENERAL NOTES: (ALL DRAWINGS)

A. UNLESS CONDITIONS DO NOT PERMIT, ALL RECTANGULAR ELBOWS SHALL BE THE RADIUSED TYPE USED. WHERE CONDITIONS DO NOT PERMIT, MITERED RECTANGULAR ELBOWS WITH TURNING VANES MAY BE PROVIDED IN LIEU OF RADIUSED ELBOWS. THE RADIUSED RECTANGULAR ELBOWS SHALL HAVE A RADIUSED HEEL AND A RADIUSED THROAT, AND SHALL HAVE A CENTERLINE RADIUS NOT LESS THAN 1.5 TIMES THE DUCT WIDTH.

B. ALL MITERED RECTANGULAR DUCT ELBOWS HAVING AN ANGLE GREATER THAN 45° SHALL BE PROVIDED WITH TURNING VANES.

C. DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE DUCTWORK WITH ELECTRICAL CONTRACTOR.

D. FINAL THERMOSTAT, SENSOR, AND EXHAUST FAN SWITCH LOCATIONS MUST BE APPROVDED BY THE ARCHITECT AND OWNER PRIOR TO INSTALLATION.

E. DUCT DETECTORS SHALL BE PROVIDED BY THE E.C. AND MOUNTED BY THE H.C. THE E.C. SHALL PROVIDE ALL POWER WIRING AND FIRE ALARM CONTROL WIRING FOR THE DETECTOR. THE H.C. SHALL PROVIDE ALL FAN SHUTDOWN CONTROL WIRING.

F. REFERENCES MADE TO THE CONTRACTOR, THE HEATING CONTRACTOR, THE HVAC CONTRACTOR, AND THE MECHANICAL CONTRACTOR SHALL MEAN ONE AND THE SAME.

G. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL MEASURE AIR AND WATER FLOW RATES ON THE EXISTING AIR AND WATER SYSTEMS AND EQUIPMENT MODIFIED UNDER THIS PROJECT. SUBMIT BALANCE REPORT FOR REVIEW.

H. NOTE: THE DATA OBTAINED FROM THIS PRE-CONSTRUCTION AIR AND WATER BALANCE SHALL BE USED TO BALANCE THE AIR AND WATER SYSTEMS AT THE CONCLUSION OF EACH PHASE OF CONSTRUCTION WORK.

DEMOLITION PLAN SYMBOLS

- EXISTING DUCT TO BE REMOVED
- EXISTING EQUIPMENT TO BE REMOVED
- EXISTING DUCT OR PIPE TO BE REMOVED

ABBREVIATIONS

AAD	AUTOMATIC AIR DAMPER
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
ACC	AIR COOLED CHILLER
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADC	AIR DIFFUSION COUNCIL
ADJ.	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGA	AMERICAN GAS ASSOCIATION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
AP	ACCESS PANEL
A.P.D.	AIR PRESSURE DROP
ARI	AIR-CONDITIONING AND REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BCU	BLOWER COIL UNIT
BDD	BACK-DRAFT DAMPER
BFP	BACK-FLOW PREVENTER
BFV	BUTTERFLY VALVE
BHP	BREAK HORSE POWER
BJ	BETWEEN JOISTS
BL STL	BLACK STEEL
BLDG	BUILDING
BTUH	BRITISH THERMAL UNITS/HOUR
BV	BALL VALVE
C	CHILLER
CAU	COMBUSTION AIR UNIT
CAV	CONSTANT AIR VOLUME
CBBDD	COUNTER BALANCED BACKDRAFT DAMPER
CC	COOLING COIL
CD	COIL CONDENSATE DRAIN OR CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEAN OUT
CONN	CONNECTION
CP	CONTROL PANEL
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CS	CIRCUIT SETTER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	HOT WATER CONVECTOR
CW	COLD WATER OR CITY WATER
DB	DRY BULB
dB	DECIBEL
DC	DUST COLLECTOR
DCW	DOMESTIC COLD WATER
°F	DEGREE FAHRENHEIT
DD	DUCT MOUNTED SMOKE DETECTOR
DDG	DOUBLE DEFLECTION GRILLE
DEMO	DEMOLITION
DF	DUCT FURNACE (GAS FIRED)
DIA.	DIAMETER
DL	DRUM LOUVER
DSCH.	DISCHARGE
DTR	DUAL TEMPERATURE RETURN
DTS	DUAL TEMPERATURE SUPPLY
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE (°F)
EC	ELECTRICAL CONTRACTOR
ECG	EGG CRATE GRILLE
ECH	ELECTRIC CEILING HEATER
ECUH	ELECTRIC CABINET UNIT HEATER
EDC	ELECTRIC DUCT COIL
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE OR ETHYLENE GLYCOL
EJ	EXPANSION JOINT
ER	EXHAUST REGISTER
ERCP	ELECTRIC RADIANT CEILING PANEL
ERV	ENERGY RECOVERY VENTILATOR
E.S.P.	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK ELECTRIC
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
FD	FIRE DAMPER
F/SD	FIRE AND SMOKE DAMPER
FC	FLUID COOLER
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FO	FLAT OVAL DUCTWORK
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FT	FEET
FTR	FINNED TUBE RADIATION
FURN	FURNISH
G	GAS (NATURAL OR REFRIGERANT)
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GFU	GLYCOL FEED UNIT
GMRU	GROUND MOUNTED ROOFTOP UNIT
GPM	GALLONS PER MINUTE
GRV	GRAVITY ROOF VENTILATOR
GUH	GAS FIRED UNIT HEATER
GV	GATE VALVE
H	HUMIDISTAT
HB	DRAIN VALVE WITH HOSE CONNECTION (HOSE BIBB)
HC	HVAC CONTRACTOR
HD	KITCHEN/LAB HOOD
HDGG	HEAVY DUTY GYM GRILLE
HI	HYDRONICS INSTITUTE
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR OR HUMIDITY RATIO
HRU	HEAT RECOVERY UNIT
HTX	HEAT EXCHANGER
HU	HUMIDIFIER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HVU	HEATING AND VENTILATING UNIT
HWC	HOT WATER COIL
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IDF	INDUCED DRAFT FAN
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCH
IPLV	INTEGRATED PART LOAD VALUE
IWG	INCHES WATER GAUGE
JSD	JET SLOT DIFFUSER
KH	KITCHEN HOOD
KSU	KITCHEN SUPPLY UNIT
KW	KILOWATT
L	LOUVER OR LIQUID (REFRIGERANT)
LAT	LEAVING AIR TEMPERATURE (°F)
LBG	LINEAR BAR GRILLE
LBS	POUNDS
LFD	LAMINAR FLOW DIFFUSER
LH	LAB HOOD
LRG	LOUVERED RETURN GRILLE
LRR	LOUVERED RETURN REGISTER
LSD	LINEAR SLOT DIFFUSER
LSR	LINEAR SLOT RETURN
LWT	LEAVING WATER TEMPERATURE
MANUF.	MANUFACTURER
MAU	MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	1000 BTUH
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
NC	NOISE COEFFICIENT
N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N.O.	NORMALLY OPEN
NO.	NUMBER
NPLV	NON-STANDARD PART LOAD VALUE
NPW	NON POTABLE WATER
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OAT	OUTSIDE AIR TEMPERATURE (°F)
OBD	OPPOSED BLADE DAMPER
OCC	OCCUPANCY
OS&Y	OUTSIDE STEM AND YOKE GATE VALVE
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP OR PUMPED DISCHARGE
PDU	POOL DEHUMIDIFICATION UNIT
PG	PRESSURE GAUGE OR PROPYLENE GLYCOL
PH	PHASE
PRV	PRESSURE RELIEF VALVE
PRS	PRESSURE REDUCING STATION
PSI	POUNDS PER SQUARE INCH
P/T	PRESSURE/TEMPERATURE PORT
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PV	PLUG VALVE
RA	RETURN AIR
RAD.	RADIATED (SOUND)
RAT	RETURN AIR TEMPERATURE (°F)
RCD	ROUND CONE DIFFUSER
RCP	RADIANT CEILING PANEL (HOT WATER)
REFRIG.	REFRIGERANT
REGEN.	REGENERATE
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
R/L A	RELIEF AIR
RM.	ROOM
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	ROOF VENTILATOR
S	SUCTION (REFRIGERANT)
S.A.	SOUND ATTENUATOR
SA	SUPPLY AIR
SAN	SANITARY
SAT	SUPPLY AIR TEMPERATURE (°F)
SCCR	SHORT CIRCUIT CURRENT RATING
SCD	SQUARE CONE DIFFUSER (4-WAY BLOW PATTERN)
SD	SMOKE DAMPER
SDG	SPIRAL DUCT GRILLE
SENS.	SENSIBLE
SF	SUPPLY FAN
SFC	SPLIT FAN COIL UNIT
SG	SUPPLY GRILLE
SLD	SQUARE DIRECTIONAL DIFFUSER
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SMR	SNOWMELT RETURN
SMS	SNOWMELT SUPPLY
SPD	SQUARE PLAQUE DIFFUSER
SQ	SQUARE
SR	SUPPLY REGISTER
ST STL	STAINLESS STEEL
T	THERMOSTAT OR THERMOMETER
TB	TERMINAL BOX
TBD	T-BAR DIFFUSER
TDV	TRIPLE DUTY VALVE
TEMP	TEMPERATURE
TFD-x	TRANSFER DUCT - SIZE PER DETAIL
TJ	THREAD JOISTS
T.P.	TOTAL PRESSURE
TPD	THERMALLY POWERED DIFFUSER
T.S.P.	TOTAL STATIC PRESSURE
T STAT	THERMOSTAT
TYP	TYPICAL
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VOLTAGE
VAV	VARIABLE AIR VOLUME
VAVD	VARIABLE AIR VOLUME DIFFUSER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VOC	VOLATILE ORGANIC COMPOUNDS
VOL D	VOLUME DAMPER
WB	WET BULB
WCC	WATER COOLED CHILLER
WG	WATER GAUGE
W.P.D.	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
x	EXISTING
xCD	EXISTING CONDENSATE DRAIN
xCHWR	EXISTING CHILLED WATER RETURN
xCHWS	EXISTING CHILLED WATER SUPPLY
xHWR	EXISTING HOT WATER RETURN
xHWS	EXISTING HOT WATER SUPPLY

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JAMES N. KOSINSKI PE-045741-E
01/20/2025

REVISIONS

100% CONSTRUCTION DOCUMENTS

CHEM LAB RENOVATIONS | SCIENCE INNOVATION CENTER
161 COMMUNITY COLLEGE DRIVE YOUNGWOOD, PA, 15697
WESTMORELAND COUNTY COMMUNITY COLLEGE 145 PAVILLION LANE
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HVAC SYMBOLS AND ABBREVIATIONS

Proj No. 21-U04-01
Issue Date 1/20/2025

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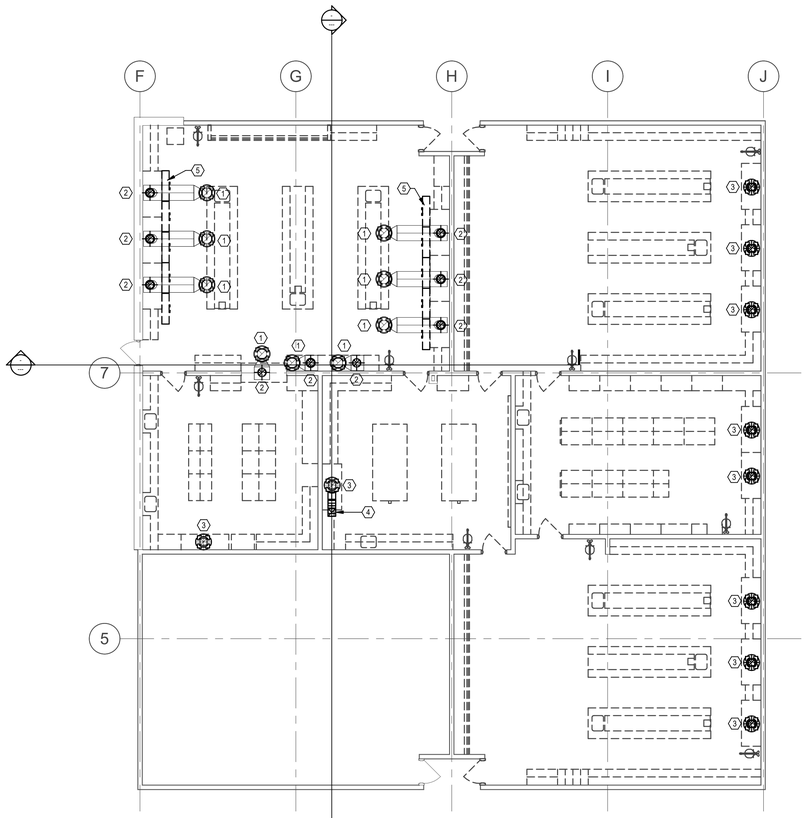
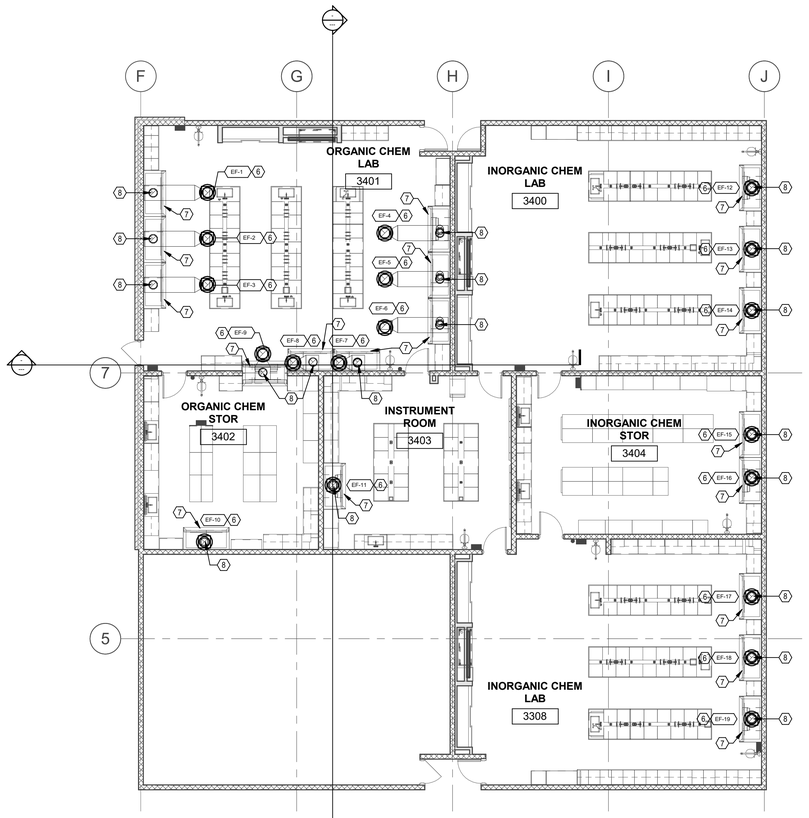


1 H101 HVAC FIRST FLOOR DEMO

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



2 H101 HVAC FIRST FOOR NEW WORK

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

CODED NOTES H101

1 REMOVE EXHAUST FAN ON ROOF ABOVE. DISCONNECT POWER WIRING AND CONTROL WIRING. EXISTING CURB TO REMAIN. REMOVE EXISTING BACKDRAFT DAMPER IN DUCTWORK.

2 REMOVE DUCT DROP DOWN TO FUME HOOD. REMOVE ANY STORAGE CABINET VENT PIPES AND PATCH DUCT AS NEEDED.

3 REMOVE EXHAUST FAN. DISCONNECT POWER WIRING AND CONTROL WIRING. EXISTING CURB TO REMAIN. REMOVE DUCT DROP DOWN TO FUME HOOD. REMOVE ANY STORAGE CABINET VENT PIPES AND PATCH.

4 REMOVE SNORKLE DUCTWORK BACK TO WHERE IT CONNECTS TO THE MAIN. PATCH MAIN DUCTWORK.

5 REMOVE SLOT DIFFUSERS AND BAFFLE COVERS TO ACCOMODATE NEW FUME HOOD INSTALLATION. RETAIN AND REINSTALL DIFFUSERS AND BAFFLES AFTER THE FUME HOOD IS INSTALLED.

6 PROVIDE NEW EXHAUST FAN. MOUNT FAN TO EXISTING CURB USING ADAPTER CURB. CONNECT CONTROL WIRING FOR FAN TO FAN SWITCH LOCATED ON FACE OF FUME HOOD. PROVIDE NEW MOTORIZED DAMPER IN THE SAME LOCATION AS THE PREVIOUSLY REMOVED BACKDRAFT DAMPER.

7 FUME HOOD FACE VELOCITY MONITOR PROVIDED BY OTHERS. BALANCE HOODS TO THE MANUFACTURER'S INDICATED AIRFLOW AT 18" SASH POSITION.

8 12"Ø DUCT DOWN AND CONNECT TO FUME HOOD. TRANSITION AND OFFSET AS REQUIRED.

EXHAUST FAN SCHEDULE

UNIT NO.	AREA SERVED	TYPE	TOTAL AIRFLOW (CFM)	FAN RPM	E.S.P. (IN WG)	MOTOR					CONTROL	INLET dBA (dB)	BASED ON		REMARKS
						RPM	HP	BHP	V	P			MANUF.	MODEL	
EF-1	ORGANIC CHEM LAB 3401	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-2	ORGANIC CHEM LAB 3401	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-3	ORGANIC CHEM LAB 3401	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-4	ORGANIC CHEM LAB 3401	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-5	ORGANIC CHEM LAB 3401	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-6	ORGANIC CHEM LAB 3401	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-7	ORGANIC CHEM LAB 3401	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-8	ORGANIC CHEM LAB 3401	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-9	ORGANIC CHEM LAB 3401	UPBLAST - BELT	950	1577	0.75	1725	1/3	0.27	120	1	SWITCH	58	GREENHECK	CUBE-100	1 - 4
EF-10	ORGANIC CHEM STOR 3402	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-11	INSTRUMENT ROOM 3403	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-12	INORGANIC CHEM LAB 3400	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-13	INORGANIC CHEM LAB 3400	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-14	INORGANIC CHEM LAB 3400	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-15	INORGANIC CHEM STOR 3404	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-16	INORGANIC CHEM STOR 3404	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-17	INORGANIC CHEM LAB 3308	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-18	INORGANIC CHEM LAB 3308	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4
EF-19	INORGANIC CHEM LAB 3308	UPBLAST - BELT	785	1671	0.75	1725	1/4	0.23	120	1	SWITCH	60	GREENHECK	CUBE-099	1 - 4

REMARKS:

1. INTEGRAL DISCONNECT.
2. MOTORIZED DAMPER.
3. ADAPTER CURB.
4. EXPLOSION PROOF MOTOR AND SPARK PROOF FAN.

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Project Number: 2021161

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JAMES N. KOSINSKI ENGINEER PE-042414-E 1/20/2025

REVISIONS

100% CONSTRUCTION DOCUMENTS

CHEM LAB RENOVATIONS | SCIENCE INNOVATION CENTER

161 COMMUNITY COLLEGE DRIVE YOUNGWOOD, PA. 15697
WESTMORELAND COUNTY COMMUNITY COLLEGE 145 PAVILLION LANE
YOUNGWOOD, PA. 15697

HVAC DEMO AND NEW WORK PLANS

Proj No. 21-UD4-01
Issue Date 1/20/2025

H101

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PLUMBING GENERAL NOTES

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.

B. THE CONTRACTOR SHALL VERIFY AND CORRECT, AS REQUIRED TO MEET ALL CODES AND REGULATIONS, ANY AND ALL POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTIONS SPECIFIED IN THE PLUMBING FIXTURE SCHEDULES AND FIXTURES ACTUALLY INSTALLED.

C. VALVES AND FITTING SHALL BE OF THE SAME SIZE AS THE PIPING OF WHICH THEY ARE INSTALLED.

D. THE DRAWINGS ARE DIAGRAMMATIC, THE CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS AT THE SITE PRIOR TO ANY INSTALLATION.

E. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS.

F. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND ACID WASTE PIPING AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.

G. INSTALL WATER HAMMER ARRESTORS ON HOT AND COLD WATER PIPING TO EACH FIXTURE OR BATTERY OF FIXTURES. ARRESTORS SHALL BE FACTORY FABRICATED, SIZED AND PLACED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. INSTALL WATER HAMMER ARRESTORS IN AN ACCESSIBLE LOCATION.

H. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS.

I. ALL PIPING SHALL BE INSTALLED AS CLOSE TO DRAWINGS AS POSSIBLE WITH NO CHANGES IN SIZING.

J. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN THE CONTRACT DRAWINGS AND AS SPECIFIED.

K. CONTRACTOR SHALL GIVE SUITABLE NOTICE TO ALL APPLICABLE UTILITY COMPANIES AND OWNER PRIOR TO PERFORMING WORK INVOLVING UTILITIES.

L. ALL PIPING SHALL BE ROUTED CONCEALED ABOVE CEILINGS, WITHIN WALLS OR IN CHASES EXCEPT FINAL CONNECTIONS TO FIXTURES, OR IN MECHANICAL ROOMS AND AS SPECIFICALLY NOTED OTHERWISE.

M. PROVIDE ACCESS PANELS FOR ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

N. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS AND DIMENSIONS.

O. PRIOR TO THE INSTALLATION OF NEW SANITARY AND ACID WASTE PIPING, THE CONTRACTOR SHALL VERIFY EXACT INVERT ELEVATIONS OF THE EXISTING SEWERS TO WHICH NEW SEWER PIPING IS TO BE CONNECTED.

P. ALL VENTS THROUGH ROOF SHALL BE A MINIMUM OF FIFTEEN (15) FEET FROM MECHANICAL ROOFTOP AIR INTAKES.

Q. CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLY PIPING TO SPECIAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURES APPROVED SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED AND INCLUDE VACUUM BREAKERS WHERE REQUIRED BY CODE.

R. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATIONS) TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT.

S. THE CONTRACTOR SHALL BASE HIS/HER PROPOSAL UPON THE EQUIPMENT, FIXTURES, ETC. SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURER IS SPECIFIED, ANY ONE OF THE MANUFACTURERS MAY BE USED IN THE PROPOSAL. IF THE CONTRACTOR WISHES TO USE EQUIPMENT, FIXTURES, ETC. NOT SPECIFIED, HE MUST SUBMIT ON LETTERHEAD STATIONERY, THE EQUIPMENT, FIXTURES, ETC. SUBSTITUTED AND RECEIVE ARCHITECT/ENGINEER APPROVAL 10 DAYS BEFORE THE BID IS DUE.

T. THE CONTRACTOR SHALL ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.

U. PIPING SHALL NOT PENETRATE ANY WALL FOOTINGS, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND THE LOCATION BE APPROVED BY THE STRUCTURAL ENGINEER.

V. EXPOSED PIPING IN FINISHED SPACES SHALL BE CHROME PLATED.

W. WATER, GAS, AIR, VACUUM, ACID VENT AND STEAM PIPING IS ABOVE THE CEILING UNLESS OTHERWISE NOTED.

X. MINIMUM SIZE FOR SANITARY AND ACID WASTE PIPING BELOW GRADE IS 4" DIAMETER

Y. SANITARY AND STORM PIPING IS BELOW THE FLOOR UNLESS OTHERWISE NOTED.

Z. PROVIDE SLEEVES AND FIRE STOP SEALANTS AT ALL PIPE PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS. COMPLY WITH ASTM E-814 AND UL 1479.

PLUMBING DEMOLITION NOTES

A. COORDINATE DEMOLITION WORK WITH OTHER TRADES AND EXISTING CONDITIONS.

B. THE DRAWINGS ARE DIAGRAMMATIC. VERIFY ACTUAL CONDITIONS AT THE SITE BEFORE PROCEEDING WITH WORK.

C. OWNER RETAINS THE RIGHTS TO ALL ITEMS AND EQUIPMENT SCHEDULED FOR REMOVAL.

D. COORDINATE STAGING OF DEMOLITION AND NEW CONSTRUCTION TO AVOID INTERRUPTION OF BUILDING UTILITIES AND SERVICES.

E. DISCONNECT AND REMOVE FIXTURES, PIPING, AND EQUIPMENT TO ACCOMPLISH DEMOLITION SHOWN. SALVAGED ITEMS NOT SCHEDULED FOR REUSE ARE TO BE TURNED OVER TO THE OWNER.

F. COORDINATE DEMOLITION DRAWINGS WITH FLOOR PLANS FOR CONNECTION LOCATIONS OF NEW WORK WITH EXISTING SYSTEMS.

G. FIXTURES, PIPING AND EQUIPMENT WITHIN THE CONSTRUCTION AREAS ARE NOT AFFECTED BY THE WORK OF THIS CONTRACT SHALL BE PROTECTED PRIOR TO COMMENCEMENT AND UNTIL THE COMPLETION OF THE WORK.

H. PROTECT (OR REMOVE AND STORE) EXISTING FIXTURES, FITTINGS, AND EQUIPMENT TO BE REUSED OR RELOCATED, THROUGH OUT ALL STAGES OF DEMOLITION AND CONSTRUCTION. REINSTALL AS INDICATED ON FLOOR PLANS.

I. REFER TO CODED NOTES FOR ADDITIONAL INFORMATION FOR DEMOLITION WORK.

PLUMBING ABBREVIATIONS

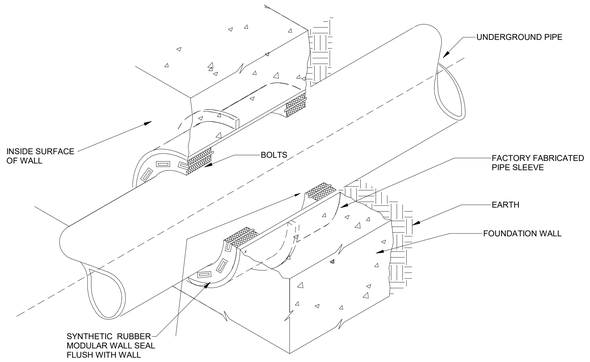
A	AIR
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BFP	BACKFLOW PREVENTER
BTUH	BRITISH THERMAL UNIT
CFH	CUBIC FOOT PER HOUR
CAI	COMBUSTION AIR INTAKE
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONT	CONTINUED, CONTINUATION
CW	COLD WATER
DI	DISTILLED
DIA	DIAMETER
DS	DOWNSPOUT
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
EW	EYEWASH STATION
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FT	FEET/FOOT
G	NATURAL GAS
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HC	HEATING CONTRACTOR
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HR	DOMESTIC HOT WATER RETURN
ID	INSIDE DIAMETER
INV	INVERT
MB	MOP BASIN
MAX	MAXIMUM
MBH	THOUSAND BTUH
MIN	MINIMUM
NC	NORMALLY CLOSED
NIPC	NOT IN PLUMBING CONTRACT
NO	NORMALLY OPEN
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PRESS	PRESSURE
PVC	POLY VINYL CHLORIDE
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
S	SINK
SAN	SANITARY
SPEC	SPECIFICATION
SSEW	SAFETY SHOWER/EYEWASH
▲T	TEMPERATURE DIFFERENTIAL
TEMP	TEMPERATURE
TR	THRU ROOF
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VAC	VACUUM
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
X	EXISTING

PLUMBING PIPE LEGEND

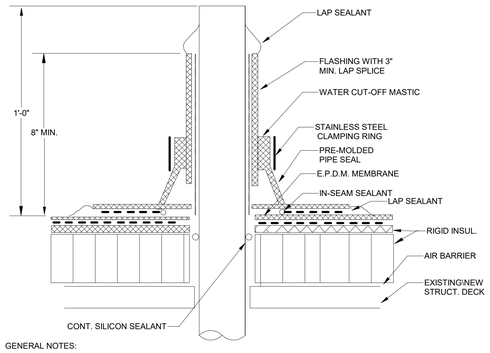
- EXISTING PIPING
- DEMOLISHED PIPING
- CW — DOMESTIC COLD WATER
- HW — DOMESTIC HOT WATER
- HR — DOMESTIC HOT WATER RETURN
- TW — TEMPERED WATER
- RWC — RAIN WATER CONDUCTOR
- SAN — SANITARY PIPING
- VENT PIPING
- AW — ACID WASTE
- AV — ACID VENT
- G — NATURAL GAS
- A — COMPRESSED AIR
- V — VACUUM
- FLUE — FLUE
- CAI — COMBUSTION AIR INTAKE
- ST — STEAM PIPING

PLUMBING LEGEND

- BALL VALVE
- GATE VALVE
- ANGLE VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- GLOBE VALVE
- CHECK VALVE
- GAUGE COCK
- HOSE BIBB
- UNION
- DROP/RISE
- CAP
- SOLENOID VALVE
- OS&Y GATE VALVE
- STRAINER, WYE TYPE
- PRESSURE REDUCING VALVE
- GAS TURRET
- CLEANOUT VERTICAL/HORIZONTAL
- BREAK/CONTINUATION
- FLOW DIRECTION
- WATER HAMMER ARRESTOR
- THERMOMETER
- PRESSURE GAUGE
- FLOOR DRAIN
- WALL HYDRANT
- DEMOLITION LIMIT
- POINT OF CONNECTION
- CODED NOTE
- CODED NOTE



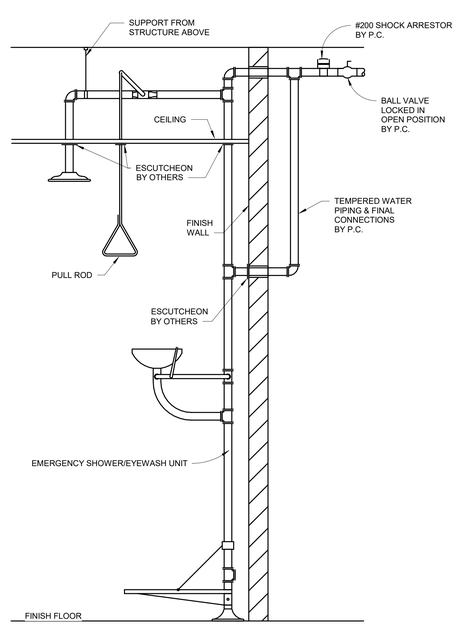
1 Below Grade Pipe Seal
NOT TO SCALE



GENERAL NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHINGS.
2. PRE-MOLDED PIPE SEAL CANNOT BE CUT VERTICALLY TO BE INSTALLED
3. DECK FLANGE CANNOT BE TRIMMED
4. WHEN PRE- FABRICATED PIPE SEAL CANNOT BE INSTALLED, USE FIELD FABRICATED PIPE SEAL.
5. PRE-MOLDED PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE REGARDLESS OF PIPE DIAMETER
6. EXTEND VENT PIPE IF REQUIRED.

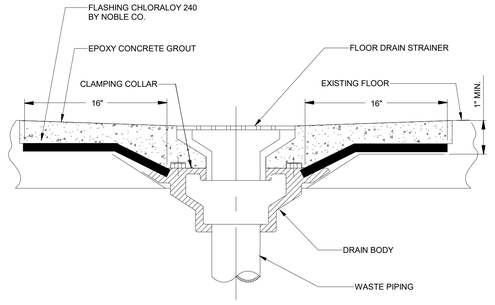
2 Vent Pipe Flashing
NOT TO SCALE



3 Emergency Shower/Eyewash Detail (P.C. to supply all piping, valves, fittings, etc.)
NOT TO SCALE

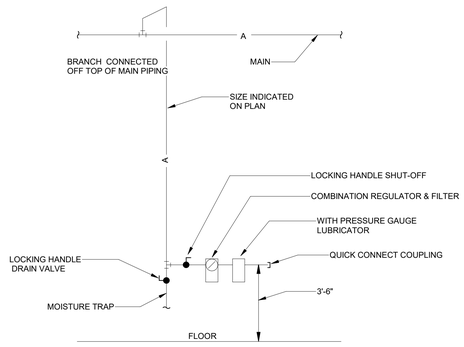
FIXTURE CONNECTION SCHEDULE

TAG NO.	CW	HW	TRAP	VENT	REMARKS
LAB SINK	1/2"	1/2"	1 1/2" AW	1 1/2" AV	SINK
FD-1	- - - - -	- - - - -	4"	2"	ACID RESISTANT W/ TRAP GUARD
SSEW-1	1"	1" & 1" TW	1 1/2"	1 1/2"	COMBINATION SAFETY SHOWER/EYEWASH BY OTHERS
EW-1	1/2"	1/2" & 1/2" TW	- - - - -	- - - - -	EYEWASH BY OTHERS



NOTE
CUT EXISTING FLOOR AS REQUIRED FOR NEW FLOOR DRAIN AND FLASHING

4 Floor Drain In Existing Floor
NOT TO SCALE



5 Compressed Air Outlet
NOT TO SCALE

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Project Number: 2021161

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JAMES N. KOSINSKI ENGINEER PE-042414-E

REVISIONS

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PLUMBING NOTES, SCHEDULES, & DETAILS

Proj No. 21-U04-01
Issue Date 01/20/2025

P001

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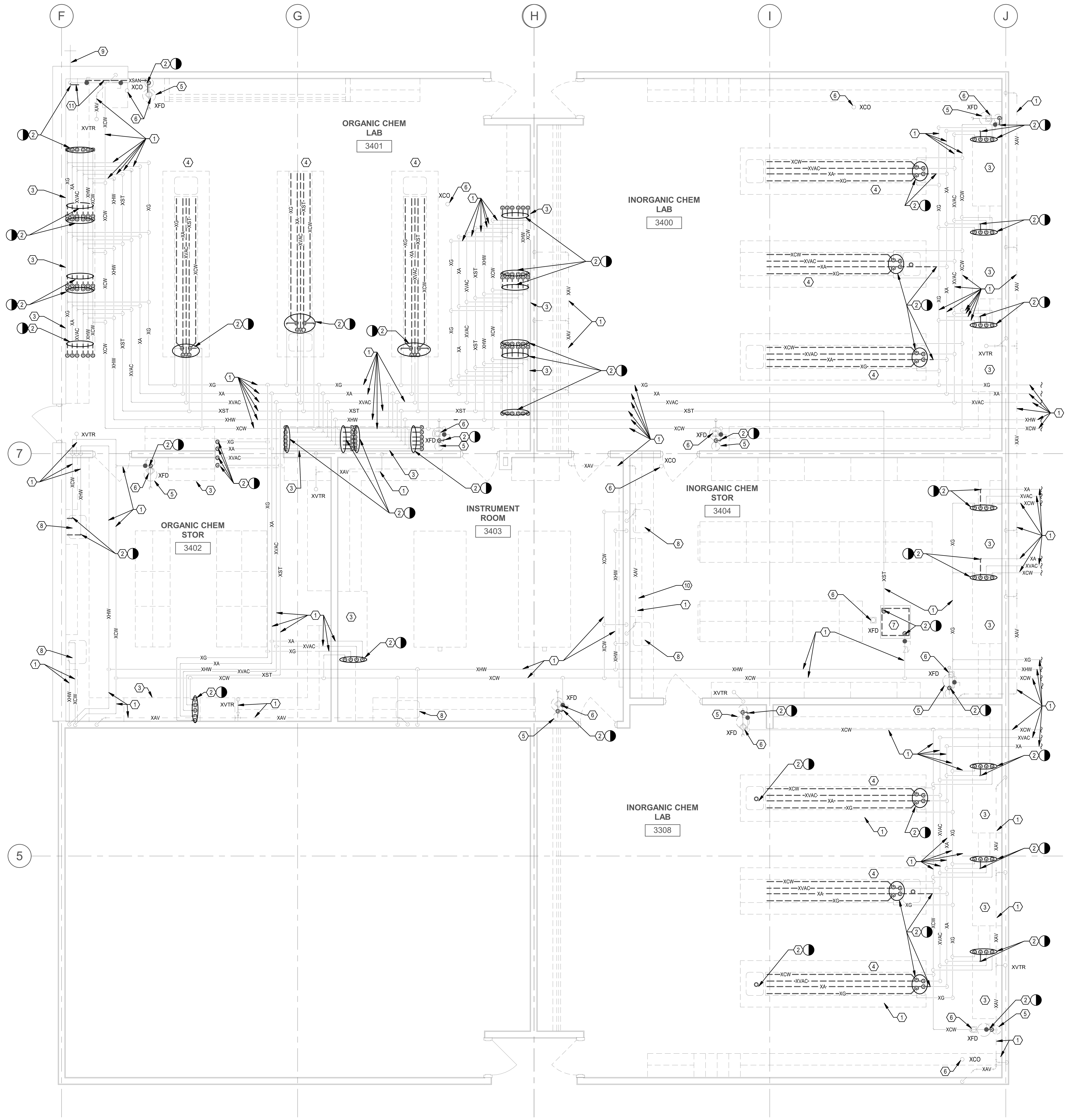

1 PD101 PLUMBING FIRST FLOOR DEMOLITION PLAN

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

CODED NOTES_SHEET PD101

1 EXISTING PLUMBING PIPING AND ASSOCIATED VALVES, FITTINGS, ETC. TO REMAIN.

2 REMOVE EXISTING PLUMBING PIPING UP TO THIS POINT.

3 EXISTING FUME HOOD TO BE REMOVED AND REPLACED BY G.C. REMOVE ALL ASSOCIATED PLUMBING PIPING, VALVES, FITTINGS, ETC. TO ABOVE CEILING OR AT FLOOR AND TEMPORARILY CAP UNTIL NEW FUME HOOD IS INSTALLED IN APPROXIMATELY SAME LOCATION. SEE NEW WORK PLANS FOR MORE INFORMATION.

4 EXISTING LAB TABLE AND SINK TO BE REMOVED AND REPLACED BY G.C. REMOVE ALL ASSOCIATED PLUMBING PIPING, VALVES, FITTINGS, ETC. TO ABOVE CEILING OR BELOW FLOOR AND TEMPORARILY CAP UNTIL NEW LAB TABLE IS INSTALLED IN APPROXIMATELY SAME LOCATION. SEE NEW WORK PLANS FOR MORE INFORMATION.

5 EXISTING COMBINATION SAFETY SHOWER/EYEWASH TO BE REMOVED AND REPLACED BY G.C. REMOVE ALL ASSOCIATED PLUMBING PIPING, VALVES, FITTINGS, ETC. TO ABOVE CEILING OR BELOW FLOOR AND TEMPORARILY CAP UNTIL NEW COMBINATION SAFETY SHOWER/EYEWASH IS INSTALLED IN APPROXIMATELY SAME LOCATION. SEE NEW WORK PLANS FOR MORE INFORMATION.

6 EXISTING FLOOR DRAIN/CLEANOUT TO REMAIN.

7 EXISTING STEAM BOILER TO BE REMOVED AND REPLACED BY P.C. REMOVE ALL ASSOCIATED PIPING, VALVES, FITTINGS, CONTROLS, ETC. TO ABOVE CEILING OR BELOW FLOOR AND TEMPORARILY CAP UNTIL NEW BOILER IS INSTALLED IN APPROXIMATELY SAME LOCATION. SEE NEW WORK PLANS FOR MORE INFORMATION.

8 EXISTING SINK TO BE REMOVED AND REPLACED BY G.C. TEMPORARILY CAP ASSOCIATED PLUMBING ROUGH-INS UNTIL NEW SINK IS INSTALLED IN APPROXIMATELY THE SAME LOCATION. SEE NEW WORK PLANS FOR MORE INFORMATION.

9 EXISTING WALL HYDRANT TO REMAIN.

10 TEMPORARILY CAP EXISTING WATER LINE SERVING DISTILLER TO BE REPLACED IN APPROXIMATELY THIS AREA. SEE NEW WORK PLANS FOR MORE INFORMATION.

11 REMOVE EXISTING PLUMBING PIPING SERVING THE ICE MACHINE. CAP PIPING BELOW FLOOR/ABOVE CEILING.

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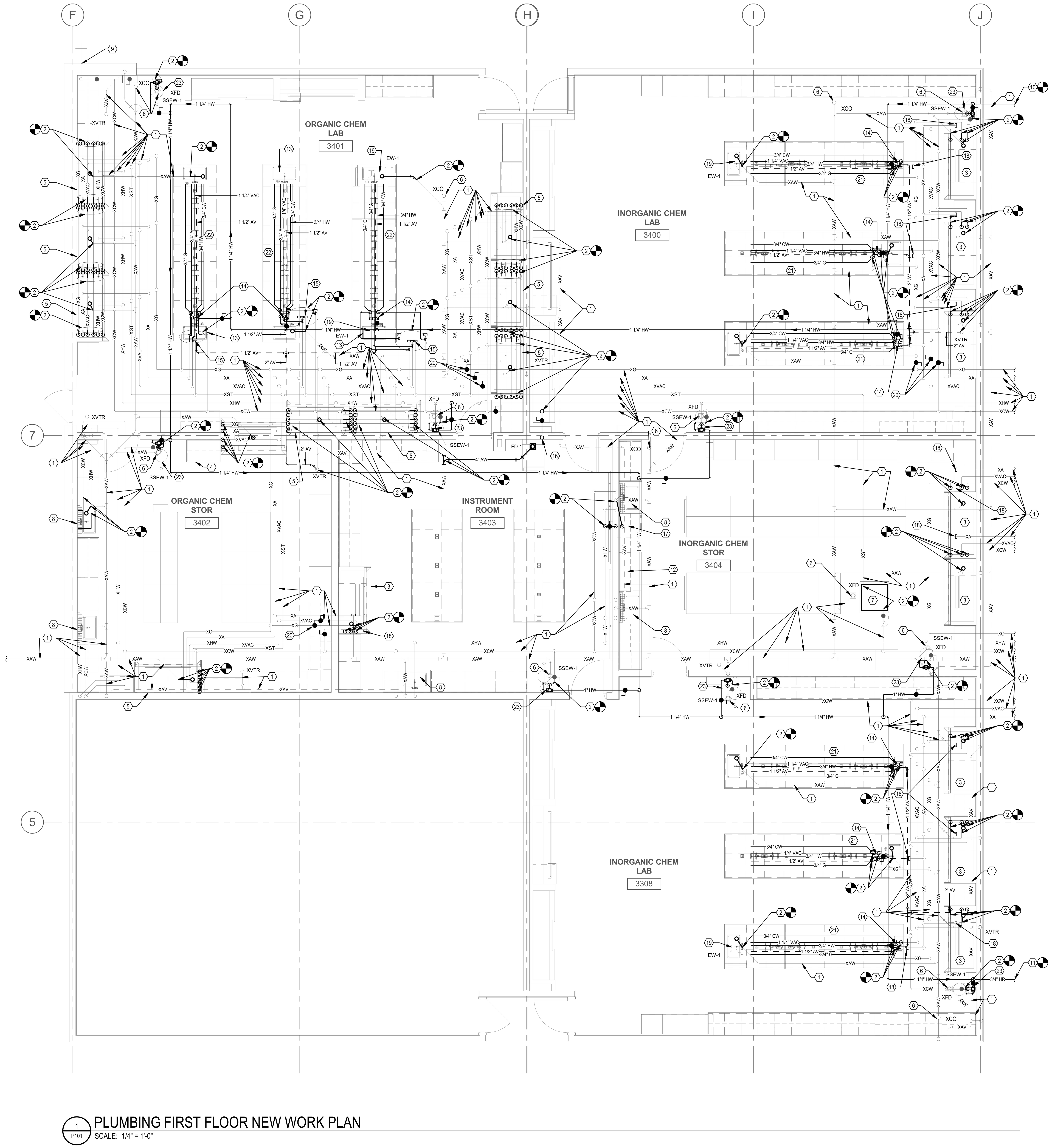
PLUMBING FIRST FLOOR DEMO PLAN

Proj No. 21-U04-01
Issue Date 01/20/2025

PD101



1 P101 PLUMBING FIRST FLOOR NEW WORK PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES (THIS SHEET)

A. REFER TO ALL ARCHITECTURAL DRAWINGS, ELEVATION PLANS & SPECIFICATIONS FOR PLUMBING CONNECTION REQUIREMENTS TO EACH LAB TABLE, FUME HOOD AND EACH PIECE OF LAB EQUIPMENT.

CODED NOTES_SHEET P101

1 EXISTING PLUMBING PIPING AND ASSOCIATED VALVES, FITTINGS, ETC. TO REMAIN.

2 CONNECT NEW PLUMBING PIPING INTO EXISTING PLUMBING PIPING IN THIS AREA. FIELD VERIFY EXACT CONNECTION LOCATION AND INVERT AND MATCH EXISTING SIZE.

3 NEW FUME HOOD TO BE PROVIDED BY G.C. EXTEND NEW VAC, CW, & G PIPING DOWN INTO FUME HOOD AND MAKE THE FINAL CONNECTIONS REQUIRED. CONNECT HOOD SINK INTO EXISTING SANITARY PIPING. COORDINATE WITH G.C. IN FIELD.

4 NEW FUME HOOD TO BE PROVIDED BY G.C. EXTEND NEW AIR, VAC, & G PIPING DOWN INTO FUME HOOD AND MAKE THE FINAL CONNECTIONS REQUIRED. CONNECT HOOD SINK INTO EXISTING SANITARY PIPING. COORDINATE WITH G.C. IN FIELD.

5 NEW FUME HOOD TO BE PROVIDED BY G.C. EXTEND NEW AIR, VAC, CW, G, AND STEAM PIPING DOWN INTO FUME HOOD AND MAKE THE FINAL CONNECTIONS REQUIRED. CONNECT HOOD SINK INTO EXISTING SANITARY PIPING. COORDINATE WITH G.C. IN FIELD.

6 EXISTING FLOOR DRAIN/CLEANOUT TO REMAIN.

7 NEW STEAM BOILER BY P.C. PROVIDE ALL NEW BRANCH PIPING, VALVES, FITTINGS, ETC. AND CONNECT BACK INTO THE EXISTING PIPING. INSTALL NEW BOILER ONTO EXISTING CONCRETE PAD. MODIFY PAD, IF REQUIRED.

8 NEW SINK TO BE PROVIDED BY G.C. CONNECT NEW BRANCH PIPING INTO EXISTING PLUMBING ROUGH-INS. COORDINATE WITH G.C. IN FIELD.

9 EXISTING WALL HYDRANT TO REMAIN.

10 CONNECT NEW 1-1/4" HW LINE INTO EXISTING HW LINE ABOVE CORRIDOR CEILING. FIELD VERIFY EXACT CONNECTION LOCATION AND INVERT.

11 CONNECT NEW 3/4" HR LINE INTO EXISTING HR LINE ABOVE CORRIDOR CEILING. FIELD VERIFY EXACT CONNECTION LOCATION AND INVERT. PROVIDE A CHECK VALVE, BALL VALVE AND BALANCING VALVE ON THIS LINE AND UPSTREAM OF THE LINE YOU ARE CONNECTING INTO.

12 NEW DISTILLER TO BE PROVIDED BY OTHERS IN APPROXIMATELY THIS LOCATION. EXTEND EXISTING CW LINE AND MAKE FINAL CONNECTION.

13 NEW SINK LOCATION. ROUTE SANITARY LINE THRU LAB TABLE AND CONNECT TO EXISTING SANITARY.

14 NEW 1/2" HW LINE DOWN IN CHASE TO SERVE SINKS.

15 CAP STEAM PIPING ABOVE CEILING.

16 1/2" CW DOWN TO ICEMAKER OUTLET BOX. COORDINATE EXACT LOCATION WITH OWNER AND MAKE FINISHED CONNECTIONS TO ICEMAKER.

17 1/2" HW DOWN TO NEW DISHWASHER. ROUTE DRAIN LINE OVER TO SINK TRAP.

18 CAP AIR PIPING ABOVE CEILING.

19 NEW EYEWASH BY G.C. ROUTE NEW 1/2" CW AND HW PIPING TO EMERGENCY MIXING VALVE IN CABINETRY AND ROUTE 1/2" TEMPERED WATER LINE OVER TO EYEWASH.

20 ADD SHUT-OFF VALVES TO EXISTING LINES TO ASSIST WITH PHASING OF THE WORK AREAS.

21 NEW LAB TABLE AND SINK TO BE PROVIDED BY G.C. DROP 3/4” CW, 3/4” HW, 1-1/4” VAC, 3/4” G, & 1-1/2" V PIPING DOWN IN COLUMN INTO CASEWORK AND ROUTE TO ALL OUTLETS, TURRETS AND SINK REQUIRING PLUMBING CONNECTIONS. CONNECT SINK INTO EXISTING SANITARY PIPING. COORDINATE WITH G.C. IN FIELD.

22 NEW LAB TABLE AND SINK TO BE PROVIDED BY G.C. DROP 3/4” CW, 3/4” HW, 3/4” AIR, 1-1/4” VAC, 3/4” G, & 1-1/2" V PIPING DOWN IN COLUMN INTO CASEWORK AND ROUTE TO ALL OUTLETS, TURRETS AND SINK REQUIRING PLUMBING CONNECTIONS. CONNECT SINK INTO EXISTING SANITARY PIPING. COORDINATE WITH G.C. IN FIELD.

23 NEW COMBINATION SAFETY SHOWER/EYEWASH BY G.C. ROUTE EXISTING 1" CW AND NEW 1" HW PIPING TO EMERGENCY MIXING VALVE IN CEILING AND DROP 1-1/4" TEMPERED WATER LINE DOWN TO COMBINATION SAFETY SHOWER/EYEWASH.

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P101

ELECTRICAL SYMBOL LEGEND

ELECTRICAL GENERAL NOTES

A. **BRANCH CIRCUITING:**
1. ALL ELECTRICAL DEVICES HAVE BRANCH CIRCUIT NUMBERS AND PANELS INDICATED ADJACENT TO THE POWER CONNECTION SYMBOL ON THE PLANS. ALTHOUGH THE INTERCONNECTING BRANCH CIRCUITING IS NOT SHOWN, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRE AND CONDUIT REQUIRED FOR A COMPLETE AND OPERATION POWER DISTRIBUTION SYSTEM.
2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL BRANCH CIRCUITING SHALL BE INSTALLED CONCEALED IN EMT, 3/4" MINIMUM.
3. ALL CONDUIT SHALL BE 3/4" EMT, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. ALL BRANCH CIRCUIT WIRING SHALL BE #12AWG THHN COPPER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. THE MAXIMUM NUMBER OF CURRENT CARRYING WIRING (DOES NOT INCLUDE GROUND WIRE) IN ANY ONE CONDUIT SHALL NOT EXCEED SIX (6), UNLESS NOTED OTHERWISE ON THE DRAWINGS.

B. **GROUNDING:**
1. PROVIDE A SEPARATE INSULATED GROUND WIRE IN EACH CONDUIT RUN. MINIMUM WIRE SIZE SHALL BE #12AWG. GROUND WIRE IS TYPICALLY NOT SHOWN.

C. **LOCATION OF ALL EQUIPMENT AND DEVICES:**
1. OBTAIN WRITTEN APPROVAL OF LOCATIONS OF ALL ELECTRICAL DEVICES FROM THE OWNER AND THE ARCHITECT PRIOR TO ROUGH-IN. THE OWNER RESERVES THE RIGHT TO MOVE ANY OR ALL ELECTRICAL DEVICES PRIOR TO ROUGH-IN, AT NO ADDITIONAL COST.
2. COORDINATE THE LOCATION AND SERVICE REQUIREMENTS OF ALL HVAC AND PLUMBING EQUIPMENT WITH THE RESPECTIVE CONTRACTORS. INFORM THE ARCHITECT OF ANY CONFLICTS IMMEDIATELY.
3. THE ELECTRICAL CONTRACTOR SHALL CHECK ALL ARCHITECTURAL, HVAC, AND PLUMBING DRAWINGS FOR THE LOCATION OF SINKS. RECEPTACLES SHALL BE LOCATED A MINIMUM OF 1'-0" FROM THE EDGE OF ANY SINK. EVEN IF SHOWN CLOSER TO THE SINK ON THE ELECTRICAL DRAWINGS.

D. **EQUIPMENT LABELING:**
1. UNDER ALTERNATE BID, PROVIDE NAMEPLATE LABELS ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH DETAIL 2/E100.
2. PROVIDE ARC FLASH HAZARD LABELING ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH SPECIFICATION SECTION 260573.

E. **LIGHTING FIXTURE SCHEDULE**:
1. REFERENCE SPECIFICATION SECTIONS 265100 (INTERIOR LIGHTING) FOR DETAILED LAMP, DRIVER AND FIXTURE SPECIFICATIONS.
2. BID PRICES SHALL BE BASED ON INFORMATION IN ALL COLUMNS. WHERE A CONFLICT EXISTS, THE PRICE SHALL INCLUDE THE MORE EXPENSIVE OPTION. COORDINATE CONFLICTS WITH ENGINEER PRIOR TO SUBMITTING BID.
3. THE FIXTURE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LAMP-DRIVER COMPATIBILITY.
4. NOMINAL LUMEN OUTPUT IS LISTED FOR LED FIXTURE TYPES. SUBMITTED FIXTURE SHALL BE CAPABLE OF PROVIDING LISTED LUMEN OUTPUT WITHIN 10% OF LISTED LUMEN OUTPUT.
5. NO SUBSTITUTIONS SHALL BE ACCEPTED UNLESS LISTED.
6. PRICING FOR LIGHT FIXTURE TYPES SHALL BE THROUGH LOCAL LIGHTING REP LISTED ONLY.

F. **SWITCHING:**
1. CHECK ALL DRAWINGS FOR WALL SWITCHES. SWITCHES ARE SHOWN ON LIGHTING, POWER, AND SYSTEM PLANS.
2. WHERE ONE OR MORE WALL SWITCHES APPEAR IN THE SAME GENERAL LOCATION, SWITCHES SHALL BE GROUPED AND INSTALLED IN ONE WALL BOX WITH ONE CONTINUOUS COMMON COVER PLATE, WHEREEVER POSSIBLE. WHERE GROUPING IS NOT POSSIBLE DUE TO SIZE OR TYPE OF DEVICE, GROUP DEVICES CLOSE TOGETHER AND AT THE EXACT SAME MOUNTING HEIGHT.
3. ALL SWITCHES SHALL BE INSTALLED SUCH THAT ALL TOGGLES ARE IN THE DOWN POSITION WHERE THE LIGHTS THEY CONTROL ARE OFF.

G. **CUTTING AND PATCHING:**
1. ALL OPENINGS IN EXISTING STRUCTURAL ELEMENTS, REQUIRED FOR COMPLETION OF THE CONTRACT (SUCH AS FLOORS, WALLS, CEILINGS, AND ROOFS), SHALL BE CUT AND/OR PATCHED BY THE ELECTRICAL CONTRACTOR.

H. **EXISTING FIRE ALARM SYSTEM:**
1. THE EXISTING FIRE ALARM SYSTEM (SIMPLEX 4100ES) SHALL REMAIN. ALL RELOCATED AND NEW DEVICES SHOWN ON DRAWINGS SHALL BE CONNECTED TO THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL CONNECTIONS REQUIRED TO INTEGRATE NEW DEVICES TO THE EXISTING SYSTEM. PROVIDE A MINIMUM OF 4 HOURS OF TECHNICIAN LABOR FROM LOCAL MANUFACTURER'S REPRESENTATIVE TO CONNECT DEVICES AND PROGRAM DEVICES INTO SYSTEM.

I. **EXISTING PANELBOARD SCHEDULES:**
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TYPE-WRITTEN PANELBOARD DIRECTORIES IN ALL EXISTING PANELBOARDS WHERE CIRCUITS HAVE BEEN ADDED OR DELETED. THE INFORMATION FOR EACH CIRCUIT SHALL INCLUDE TYPE OF LOAD AND LOCATION OF CIRCUITING. THE ROOM NUMBERS USED TO CREATE THESE PANELBOARD DIRECTORIES WILL BE BASED ON THE AS-BUILT ROOM NUMBERS, IF DIFFERENT THAN THE ROOM NUMBERS ON DRAWINGS. COORDINATE THE ROOM NUMBERS WITH OWNER AND ARCHITECT PRIOR TO CREATING DIRECTORIES. AFTER ALL DIRECTORIES HAVE BEEN INSTALLED IN PANELBOARDS, THE CONTRACTOR WILL PROVIDE ALL DIRECTORIES ON A FLASH DRIVE LISTING SOFTWARE USED TO CREATE THE FILES FOR USE BY THE OWNER.

J. **EXISTING CIRCUIT NUMBERS:**
1. THE CIRCUIT NUMBERS SHOWN ON THE DRAWINGS ARE BASED ON THE ORIGINAL CONTRACT DOCUMENTS AND EXISTING PANELBOARD SCHEDULES. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUIT NUMBERS IN FIELD PRIOR COMMENCING WORK.

GENERAL ABBREVIATIONS

A	AMPERE	NA	NOT APPLICABLE
AC	ABOVE COUNTER	NIC	NOT IN THIS CONTRACT
AFF	ABOVE FINISHED FLOOR	NO	NUMBER
AWG	AMERICAN WIRE GAUGE	NTS	NOT TO SCALE
C	CONDUIT	OC	ON CENTER
CB	CIRCUIT BREAKER	OEM	ORIGINAL EQUIPMENT MANUFACTURER
CKT	CIRCUIT	P	POLE
CLG	CEILING	PB	PUSH BUTTON
CONN	CONNECTION	PH	PHASE
CU	COPPER	PNL	PANELBOARD
DISC	DISCONNECT	POS	POSITION
DWG	DRAWING	PRI	PRIMARY
E	EMERGENCY OR EMERGENCY SYSTEM	PWR	POWER
EMT	ELECTRIC METALLIC TUBING	REC	RECESSED
EQUIP	EQUIPMENT	RECPT	RECEPTACLE
EX	EXISTING	REQ	REQUIRED
FA	FIRE ALARM	RMC	RIGID GALVANIZED METAL CONDUIT
FBO	FURNISHED BY OTHERS WITH ALL RELATED ELECTRICAL WORK BY ELECTRICAL CONTRACTOR	SCCR	SHORT CIRCUIT CURRENT RATING
		SCH	SCHEDULE
FDR	FEEDER	SEC	SECONDARY
FH	FUME HOOD	SM	SURFACE MOUNTED
FT	FEET	SPD	SURGE PROTECTIVE DEVICE
FTL	FEED THROUGH LUGS	TYP	TYPICAL
GND	GROUND OR GROUNDED	UNO	UNLESS NOTED OTHERWISE
GRD	GROUND OR GROUNDED	V	VOLT
HP	HORSEPOWER	W	WATT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	W/	WITH
IN	INCH	W/O	WITHOUT
JB	JUNCTION BOX	X	EXISTING TO REMAIN
KW	KILOWATT	XA	EXISTING TO BE REMOVED COMPLETELY
LTG	LIGHTING	XR	RELOCATED EXISTING EQUIPMENT
MCB	MAIN CIRCUIT BREAKER	XRN	EXISTING TO BE REMOVED AND REPLACED WITH NEW DEVICE
MFR	MANUFACTURER		
MLO	MAIN LUG ONLY	XRR	EXISTING TO BE REMOVED AND RELOCATED
MTD	MOUNTED	Y	STAR OR WYE DISTRIBUTION SYSTEM
MTG	MOUNTING		

CONTRACTOR ABBREVIATIONS

EC	ELECTRICAL CONTRACTOR	HC	HVAC CONTRACTOR
GC	GENERAL CONTRACTOR	PC	PLUMBING CONTRACTOR

GENERAL DRAWING SYMBOLS

DETAIL INDICATOR. '#' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION. 'DWG' DENOTES DRAWING NUMBER WHERE DETAIL IS DRAWN.

COLUMN LINE OR GRID INDICATOR. '#' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION.

REVISION INDICATOR. '#' DENOTES REVISION LEVEL.

CODED NOTE. '#' DENOTES SEQUENTIAL ALPHANUMERIC DESIGNATION.

LIGHTING

CEILING MOUNTED | WALL MOUNTED

INDIVIDUAL LIGHTING FIXTURE. WALL MOUNT AT 6'-8" AFF TO BOTTOM OR CEILING MOUNT UNO.

UNIT BATTERY EMERGENCY LIGHT. MOUNT 1'-0" BELOW CEILING UNO.

X01 a

NOMENCLATURE:
- 'G01' DENOTES FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE).
- 'a' DENOTES SWITCH CONTROL.

NOTES:
1. ADJACENT FIXTURES WITHOUT TAGS TO BE SAME TYPE AS TAGGED FIXTURES.
2. REFER TO LIGHTING FIXTURE SCHEDULE FOR LIGHTING FIXTURE DESCRIPTIONS.
3. WHERE POSSIBLE, LIGHTING FIXTURES ARE SHOWN AS ACTUAL SIZE AND CONFIGURATION.

LIGHTING CONTROLS

WALL SWITCH. MOUNT 48" AFF TO TOP OF BOX UNO.

NOMENCLATURE:
- LOWER CASE LETTER ADJACENT TO SYMBOL DESIGNATES SWITCH TAG.
- '3' DENOTES 3-WAY SWITCH.
- '4' DENOTES 4-WAY SWITCH.

POWER

CEILING MTD | FLOOR MTD | WALL MTD

JUNCTION BOX. MOUNT 18" AFF UNO.

DUPLEX OUTLET RECEPTACLE. MOUNT 18" AFF UNO

DOUBLE DUPLEX RECEPTACLE OUTLET (2 DUPLEX OUTLETS WITH COMMON FACEPLATE). MOUNT 18" AFF UNO.

POWER POLE. PROVIDE RECEPTACLE AND OUTLETS AS INDICATED.

1 IC

NOMENCLATURE:
- '1' DENOTES CIRCUIT NUMBER. TWO NUMBERS SEPARATED BY A COMMA (e.g. 31,33) INDICATES A 2-POLE CIRCUIT TO BE CONNECTED TO POSITIONS 31 AND 33 IN THE PANELBOARD. THREE NUMBERS SEPARATED BY A COMMA (e.g. 31,33,35) INDICATES A 3-POLE CIRCUIT IN THE PANELBOARD.
- 'IC' DENOTES PANELBOARD.
- 'AC' DENOTES RECEPTACLE MOUNTED ABOVE COUNTER. MOUNT 6" ABOVE TOP OF BACKSPLASH.
- 'GFI' DENOTES GROUND FAULT INTERRUPTING RECEPTACLE.
- 'IM' DENOTES GROUND FAULT INTERRUPTING RECEPTACLE FOR ICE MACHINE.
- 'TV' DENOTES THREE-GANG RECESSED TV BOX, LEGRAND MODEL NO. TV3WTVSSW OR EQUAL. IN ADDITION TO CONDUIT FOR POWER, PROVIDE 1" EMT CONDUIT FROM BOX AND STUB ABOVE ACCESSIBLE CEILING FOR CABLING BY OTHERS. PROVIDE PULL STRING IN CONDUIT.
- '+XX' DENOTES RECEPTACLE MOUNTED AT SPECIFIC MOUNTING HEIGHT WHERE 'XX' IS INCHES AFF TO CENTER OF DEVICE.

PUSHBUTTON.

NON-FUSED SAFETY DISCONNECT SWITCH. MOUNT 6'-0" AFF TO TOP OF ENCLOSURE UNO.

FUSED SAFETY DISCONNECT SWITCH. MOUNT 6'-0" AFF TO TOP OF ENCLOSURE UNO.

PANELBOARD. MOUNT 6'-0" AFF TO TOP CIRCUIT BREAKER.

PANEL IC
208V, 3PH, 4W

PANELBOARD DESIGNATION.

SURFACE RACEWAY.

DEVICES INSTALLED IN SURFACE RACEWAY.

FIRE ALARM SYSTEM

CEILING MOUNTED

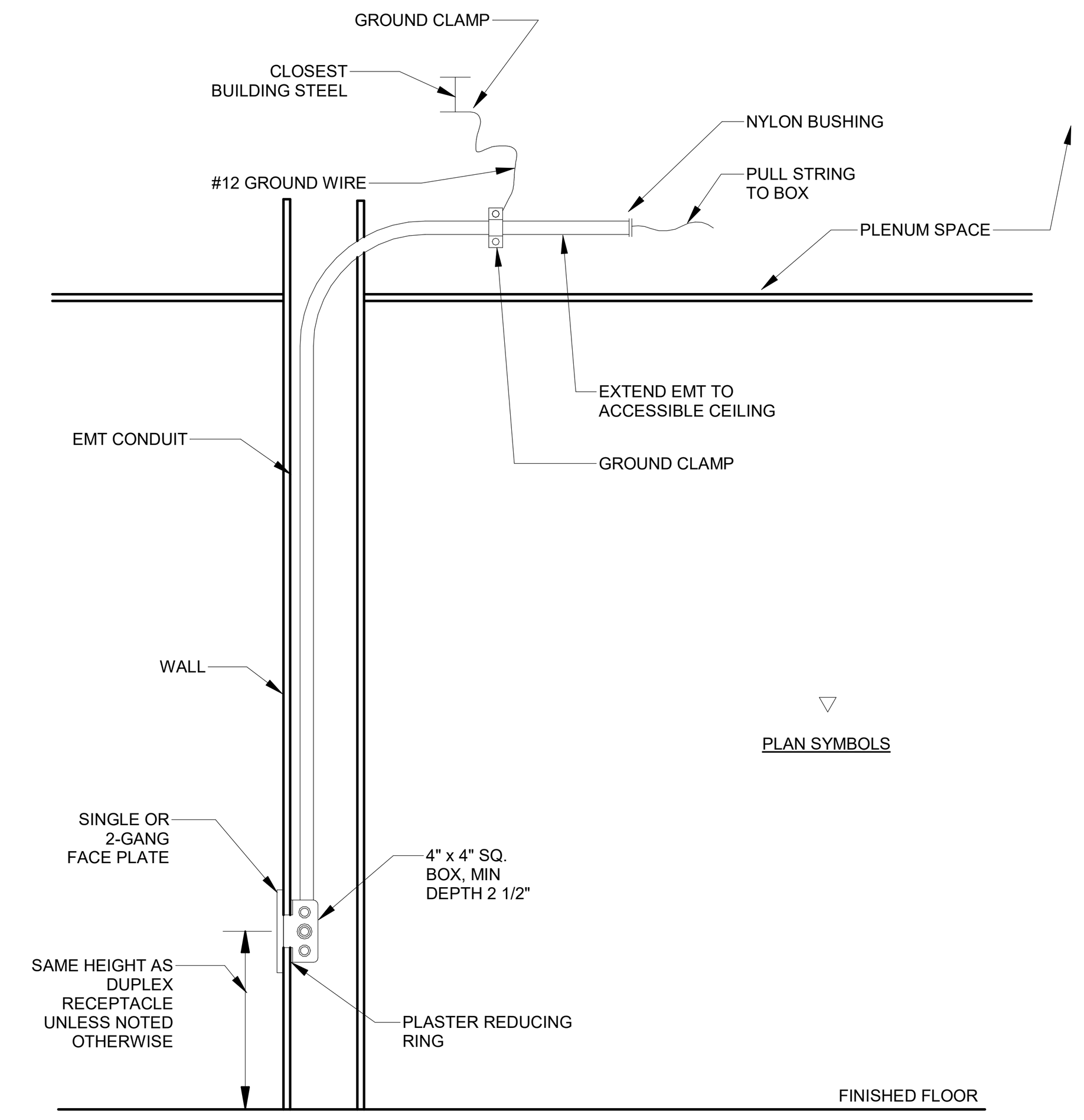
SV EXISTING STROBE/SPEAKER COMBINATION.

PD PHOTOELECTRIC TYPE SMOKE DETECTOR, CEILING MOUNTED UNLESS NOTED OTHERWISE.

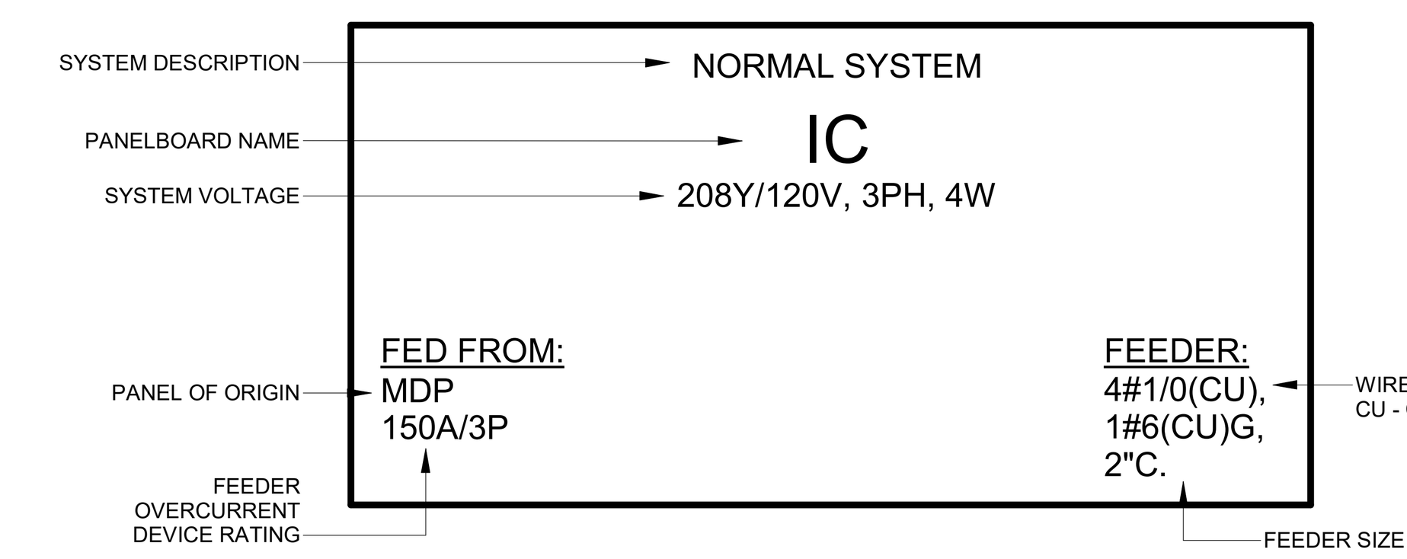
TELE/DATA COMMUNICATION SYSTEM (ROUGH-IN)

WALL MTD

COMBINATION TELEPHONE/DATA OUTLET. MOUNT AT LOCATION OF ADJACENT RECEPTACLE. REFER TO DETAIL 1/E100 FOR ROUGH-IN REQUIREMENTS.

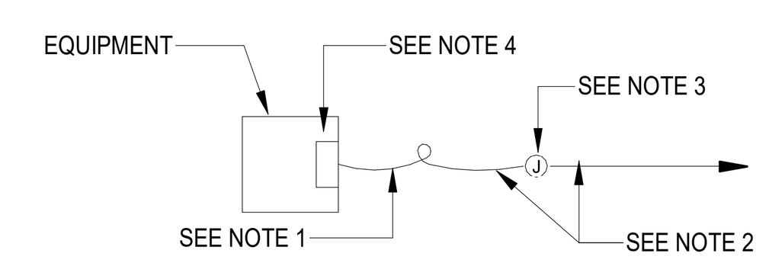


1 VOICE/DATA OUTLET ROUGH-IN REQUIREMENTS
NOT TO SCALE



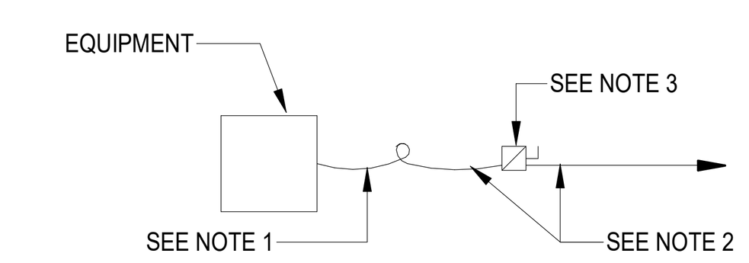
NOTES:
A. NAMEPLATE SHALL BE 5" WIDE BY 2-1/2" HIGH.
B. 'EQUIPMENT NAME' SHALL BE 1/4" TALL.
C. ALL OTHER TEXT SHALL BE 1/8" TALL
D. WHERE PANELBOARD IS LOCATED IN AN ELECTRICAL/MECHANICAL ROOM, INSTALL NAMEPLATE ON FACE OF PANELBOARD AND SECURE NAMEPLATE TO EQUIPMENT WITH TWO SHEET METAL SCREWS.
E. WHERE PANELBOARD IS LOCATED IN AN OCCUPIED SPACE OR CORRIDOR, INSTALL NAMEPLATE ON INSIDE OF DOOR AND SECURE NAMEPLATE TO EQUIPMENT WITH DOUBLE-SIDED TAPE. PROVIDE SECOND NAMEPLATE ON FACE OF PANELBOARD WITH PANELBOARD NAME ONLY SECURED WITH TWO METAL SCREWS. SECOND NAMEPLATE SHALL BE 3/4" HIGH WITH 1/2" TALL TEXT.

2 NAMEPLATE DETAIL - PANELBOARDS
NOT TO SCALE



NOTES:
1. PROVIDE FLEXIBLE CONDUIT IN ACCORDANCE WITH THE SPECIFICATION.
2. PROVIDE WIRING IN ACCORDANCE WITH EQUIPMENT SCHEDULE.
3. PROVIDE A JUNCTION BOX ADJACENT TO EQUIPMENT.
4. CONNECT TO INTEGRAL DISCONNECT SWITCH OR CONTROL PANEL IN UNIT

3 EQUIPMENT CONNECTION (Integral Disconnect)
NOT TO SCALE



NOTES:
1. PROVIDE FLEXIBLE CONDUIT IN ACCORDANCE WITH THE SPECIFICATION.
2. PROVIDE WIRING IN ACCORDANCE WITH EQUIPMENT SCHEDULE.
3. EXISTING DISCONNECT SWITCH.

4 EQUIPMENT CONNECTION (Fused Disconnect Switch)
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION: GENERAL	COLOR	MOUNTING	LUMEN OUTPUT	LOAD	VOLTAGE	MANUFACTURER / MODEL SERIES: LAFACE & McGOVERN	REPCO ii	ARCHITECTURAL LIGHTING SALES	PAOLICELLI ONESOURCE	GORMLEY FARRINGTON
EMERGENCY LIGHTING FIXTURES											
E01	BATTERY PACK, DUAL LAMP, THERMOPLASTIC HOUSING	WHITE	SURFACE	LED 1000 LUMENS	10.6W	120/277	LITHONIA ELM6L	CHLORIDE TPU LM7	EXITRONIX NFT-HO	DUAL LITE EVHC12	LIGHTALARMS LCA-2RHL
EXISTING LIGHT FIXTURES											
X01	EXISTING 2x4 TROFFER, FLAT PANEL	WHITE	RECESSED								

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SYMBOLS, ABBREVIATIONS, AND DETAILS

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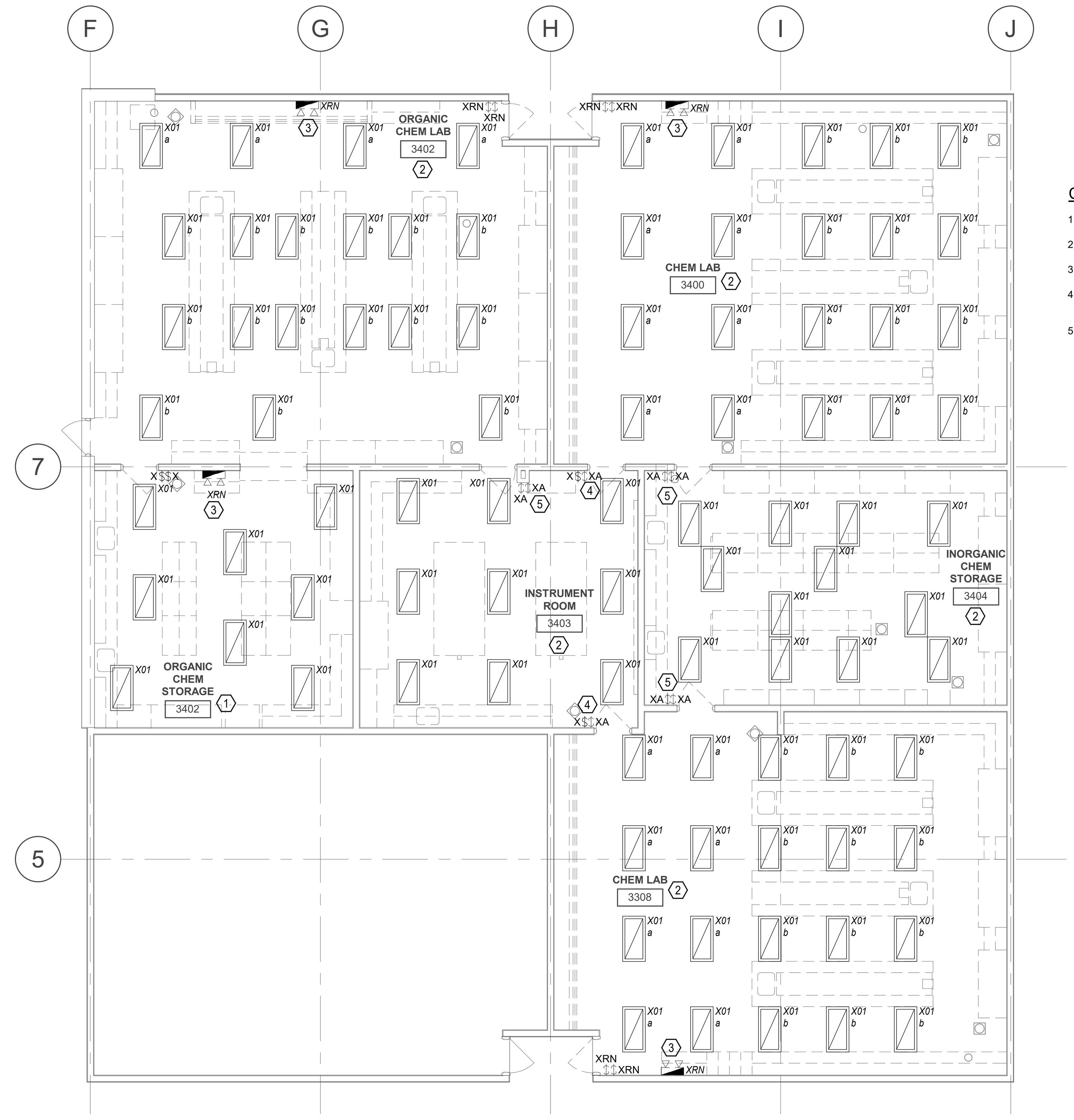
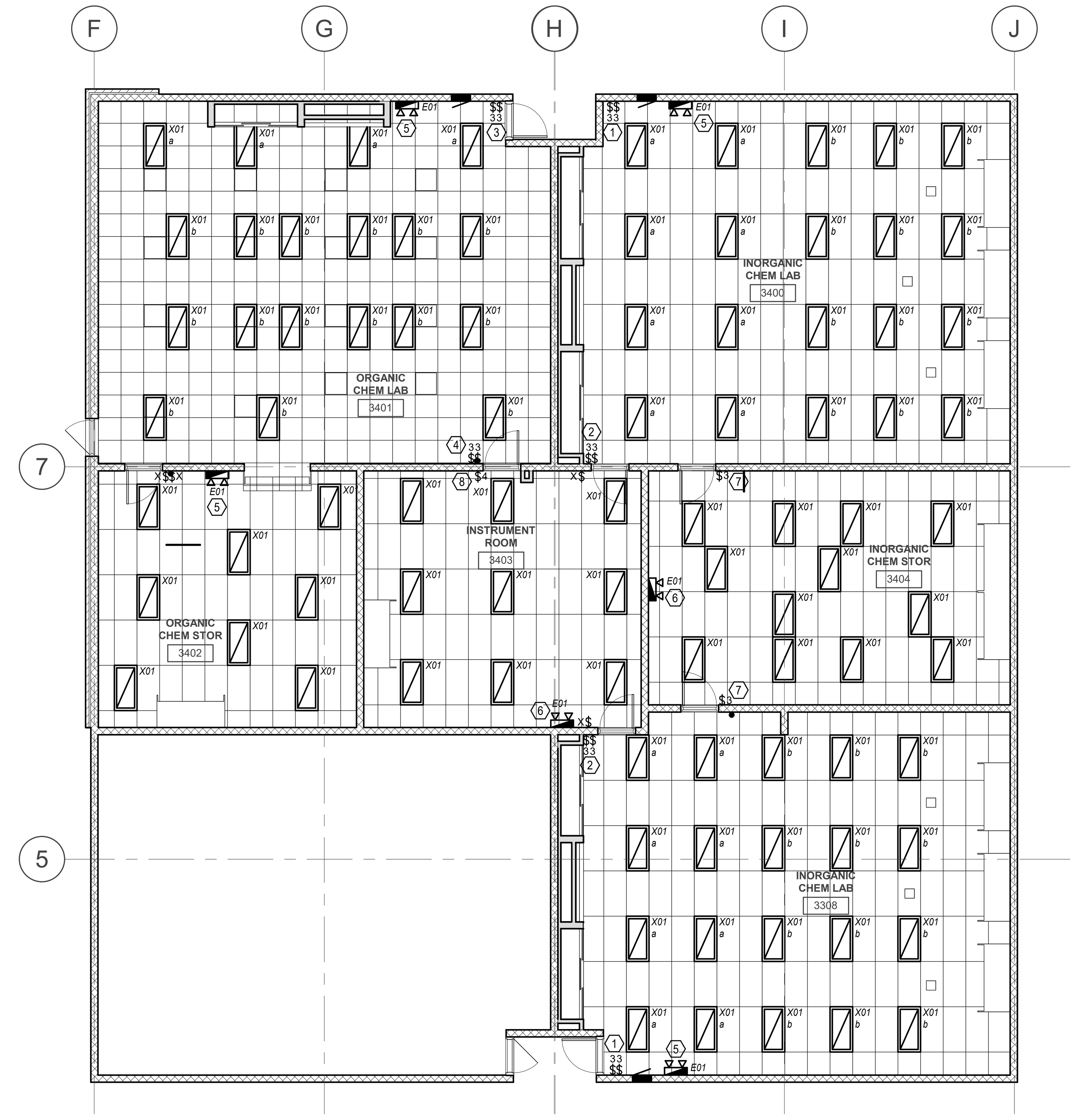
E100



1 CHEMISTRY DEPARTMENT ELECTRICAL DEMOLITION PLAN - LIGHTING
1/8" = 1'-0"

CODED NOTES - ELECTRICAL DEMOLITION PLAN - LIGHTING

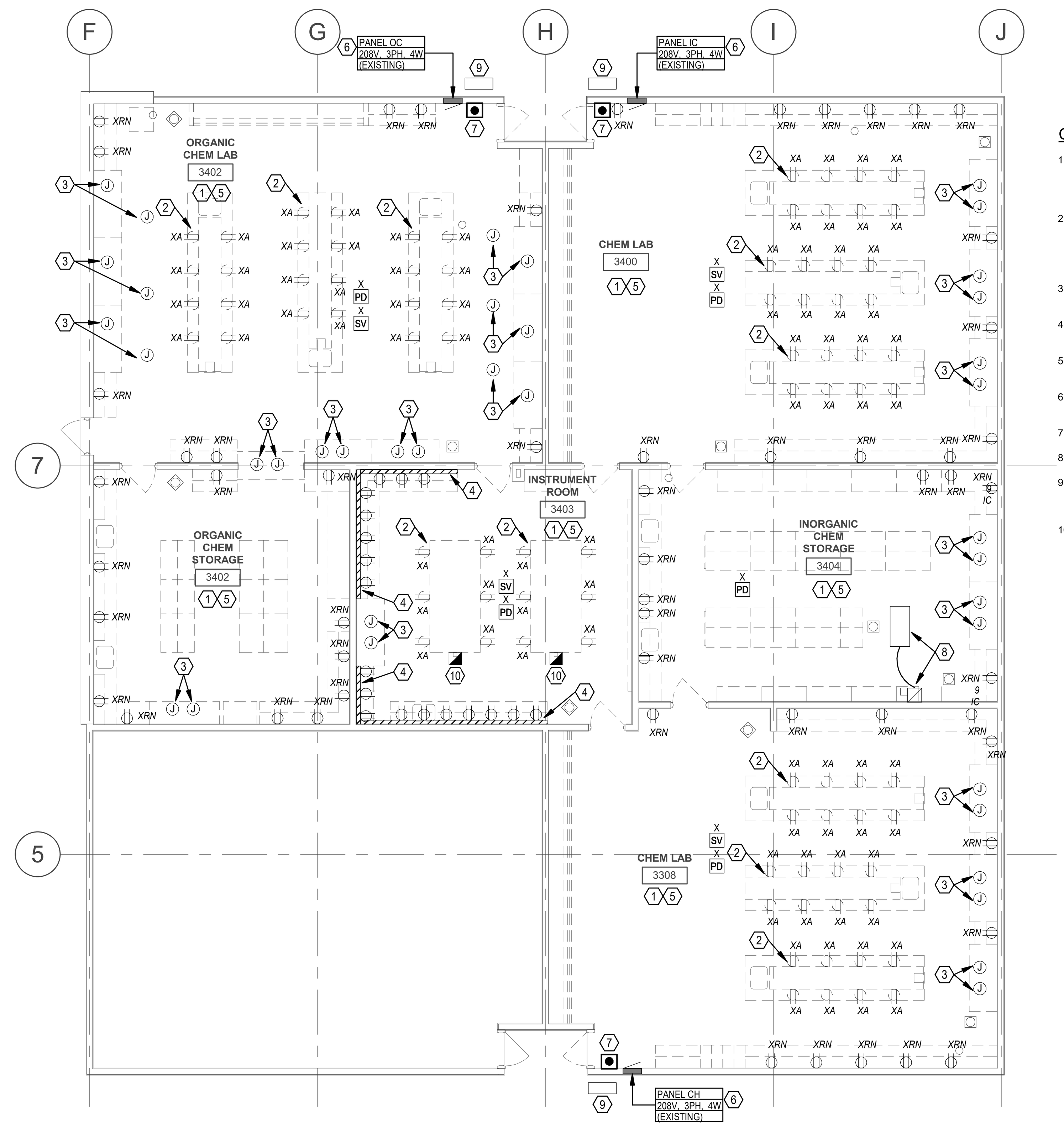
1. UNLESS NOTED OTHERWISE, EXISTING LIGHT FIXTURES, SWITCHES, AND ALL ASSOCIATED WIRING IN THIS ROOM TO REMAIN.
2. UNLESS NOTED OTHERWISE, EXISTING LIGHT FIXTURES IN THIS ROOM TO REMAIN. REVISE SWITCHES AND ASSOCIATED WIRING AS SHOWN ON NEW WORK PLAN.
3. REMOVE EXISTING EMERGENCY BATTERY UNIT AND REPLACE WITH NEW AS SHOWN ON NEW WORK PLAN. EXISTING WIRING TO REMAIN FOR RECONNECTION TO NEW FIXTURE.
4. REMOVE EXISTING LIGHT SWITCH AT THIS LOCATION THAT IS CURRENTLY NOT CONTROLLING ANYTHING. PROVIDE NEW COVERPLATE ON DOUBLE-GANG JUNCTION BOX WITH SINGLE OPENING FOR THE ONE ACTIVE SWITCH.
5. REMOVE BOTH SWITCHES AT THIS LOCATION AND PULL WIRING BACK TO ABOVE THE ACCESSIBLE CEILING. EXTEND ACTIVE SWITCH WIRING TO NEW SWITCH LOCATION SHOWN ON NEW WORK PLAN.



2 CHEMISTRY DEPARTMENT NEW WORK PLAN - LIGHTING
1/8" = 1'-0"

CODED NOTES - ELECTRICAL NEW WORK PLAN - LIGHTING

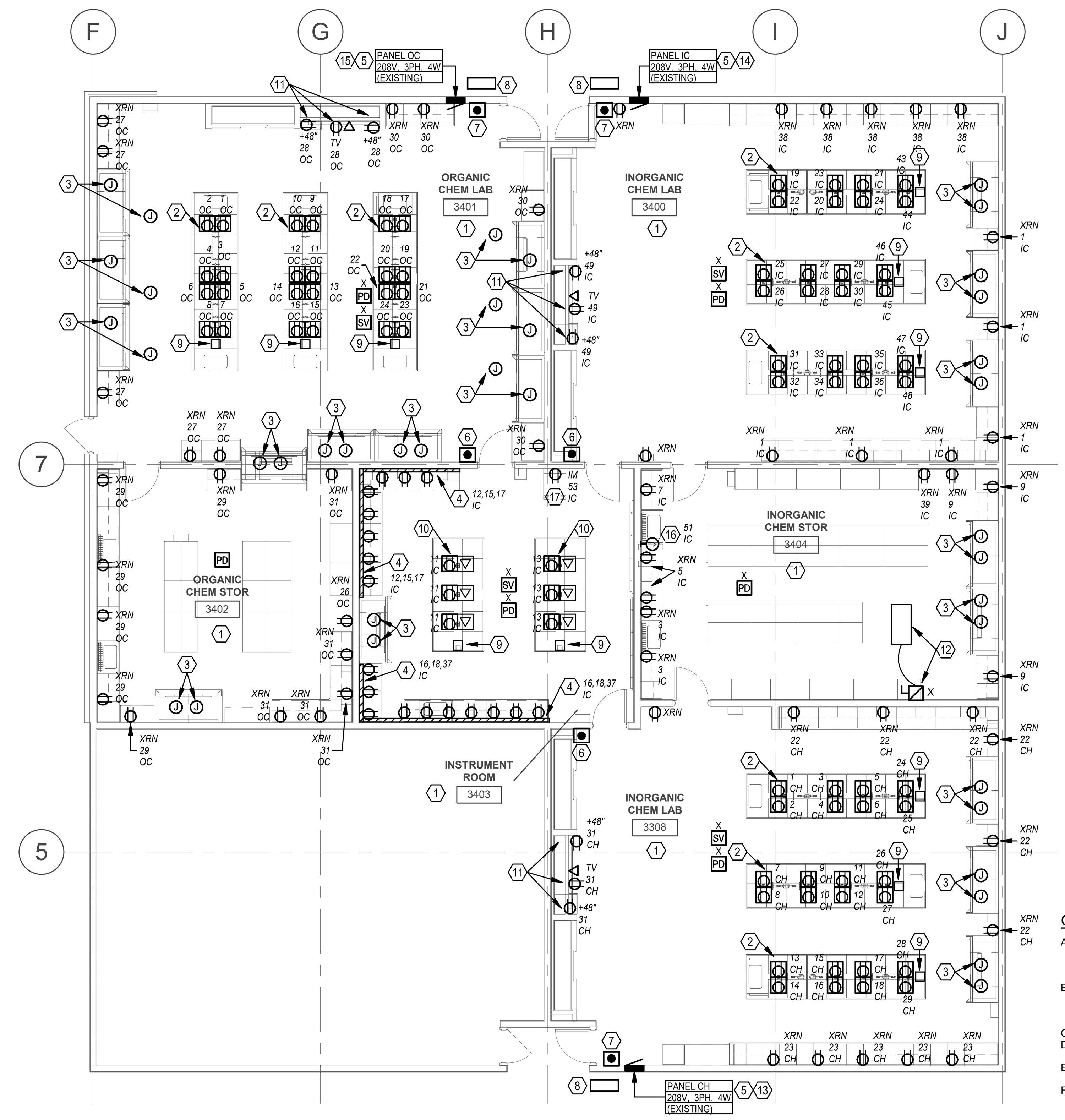
1. REPLACE TWO SWITCHES AT THIS LOCATION WITH TWO THREE-WAY SWITCHES FOR CONTROL OF LIGHTING AT THIS LOCATION AND AT THE LOCATION DESIGNATED BY CODED NOTE NO. 2. SWITCHES SHALL CONTROL LIGHTING ZONES AS THEY ARE CURRENTLY ZONED (ONE SWITCH CONTROLS FIXTURES WITH DESIGNATION ‘a’ AND THE OTHER SWITCH CONTROLS FIXTURE WITH DESIGNATION ‘b’.)
2. PROVIDE TWO NEW THREE-WAY SWITCHES AT THIS LOCATION TO CONTROL LIGHTING IN THIS ROOM AS DESCRIBED IN CODED NOTE NO. 1. PROVIDE SINGLE-CHANNEL SURFACE RACEWAY FOR NEW SWITCH AND ASSOCIATED WIRING, WIREMOLD 3000 SERIES OR EQUAL.
3. REPLACE TWO SWITCHES AT THIS LOCATION WITH TWO THREE-WAY SWITCHES FOR CONTROL OF LIGHTING AT THIS LOCATION AND AT THE LOCATION DESIGNATED BY CODED NOTE NO. 4. REVISE SWITCH WIRING IN THIS ROOM SO THAT ONE SWITCH CONTROLS FIXTURES WITH DESIGNATION ‘a’ AND THE OTHER SWITCH CONTROLS FIXTURE WITH DESIGNATION ‘b’.
4. PROVIDE TWO NEW THREE-WAY SWITCHES AT THIS LOCATION TO CONTROL LIGHTING IN THIS ROOM AS DESCRIBED IN CODED NOTE NO. 3. PROVIDE SINGLE-CHANNEL SURFACE RACEWAY FOR NEW SWITCH AND ASSOCIATED WIRING, WIREMOLD 3000 SERIES OR EQUAL.
5. PROVIDE NEW EMERGENCY BATTERY PACK AND CONNECT TO EXISTING CIRCUITING AT THIS LOCATION. EXTEND EXISTING WIRING AS REQUIRED TO ACCOMMODATE NEW LOCATION.
6. PROVIDE NEW EMERGENCY BATTERY PACK AS SHOWN. CIRCUIT BATTERY BACK TO SAME CIRCUIT FEEDING LIGHTING IN THIS ROOM AHEAD OF ANY LOCAL SWITCHING.
7. PROVIDE NEW THREE-WAY SWITCH AT THIS LOCATION AND EXTEND EXISTING SWITCH WIRING TO NEW SWITCH LOCATION. PROVIDE SINGLE-CHANNEL SURFACE RACEWAY FOR NEW SWITCH AND ASSOCIATED WIRING, WIREMOLD 3000 SERIES OR EQUAL.
8. PROVIDE NEW FOUR-WAY SWITCH AT THIS LOCATION AND EXTEND EXISTING SWITCH WIRING TO NEW SWITCH LOCATION. PROVIDE SINGLE-CHANNEL SURFACE RACEWAY FOR NEW SWITCH AND ASSOCIATED WIRING, WIREMOLD 3000 SERIES OR EQUAL.



3 CHEMISTRY DEPARTMENT ELECTRICAL DEMOLITION PLAN - POWER & SYSTEMS
1/8" = 1'-0"

CODED NOTES - ELECTRICAL DEMO PLAN - POWER & SYSTEMS

1. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL DEVICES TO REMAIN, INCLUDING BUT NOT LIMITED TO, RECEPTACLES, RACEWAYS, OUTLET BOXES, CONTACTORS, POWER CONNECTIONS TO EQUIPMENT, FIRE ALARM DEVICES, TELEPHONE/DATA JACKS, AND ALL ASSOCIATED WIRING AND CONDUIT. REFER TO GENERAL NOTE F FOR ADDITIONAL INFORMATION REGARDING RECEPTACLES DESIGNATED AS ‘XRN’.
2. REMOVE EXISTING RECEPTACLE MOUNTED IN CASEWORK. UNDER BASE BID, REMOVE EXISTING WIRING AND CONDUIT BACK TO ABOVE CEILING AND LEAVE FOR RECONNECTION TO NEW DEVICES AS SHOWN ON NEW WORK PLAN (EACH RECEPTACLE IS A DEDICATED CIRCUIT. CIRCUITING SHOWN ON NEW WORK PLAN MATCHES EXISTING CIRCUIT NUMBERS.) UNDER ALTERNATE BID, REMOVE EXISTING WIRING AND CONDUIT BACK TO PANELBOARD OF ORIGIN. TYPICAL FOR ALL RECEPTACLES SHOWN IN THIS PIECE OF CASEWORK.
3. EXISTING FUME HOOD TO BE REMOVED AND REPLACED WITH NEW BY GC. EC TO DISCONNECT POWER TO EXISTING FUME HOOD AND EXISTING EXHAUST FAN. EXISTING WIRING TO REMAIN FOR RECONNECTION TO NEW EQUIPMENT.
4. UNDER BASE BID, EXISTING SURFACE MOUNTED RACEWAY AND ASSOCIATED RECEPTACLES, WIRING, AND CONDUIT TO REMAIN. UNDER ALTERNATE BID, REPLACE WITH NEW AS DESCRIBED ON NEW WORK PLAN.
5. UNDER ALTERNATE BID, REMOVE ALL EXISTING RECEPTACLES IN THIS ROOM AND REPLACE WITH NEW AS DESCRIBED ON NEW WORK PLAN AND REMOVE ALL ASSOCIATED WIRING BACK TO PANELBOARD OF ORIGIN.
6. UNDER BASE BID, EXISTING PANELBOARD FEEDING RECEPTACLES WITHIN THIS ROOM TO REMAIN. UNDER ALTERNATE BID, REPLACE EXISTING PANELBOARD INTERIOR AND PORTION OF FEEDER BACK TO ASSOCIATED CONTACTOR AS DESCRIBED ON NEW WORK PLAN.
7. REMOVE EMERGENCY PUSH BUTTON AND ASSOCIATED CONTROL CABLING BACK TO ASSOCIATED CONTACTOR AND REPLACE WITH NEW AS SHOWN ON NEW WORK PLAN.
8. EXISTING STEAM GENERATOR TO BE REMOVED AND REPLACED WITH NEW BY PC. EC TO DISCONNECT POWER. EXISTING DISCONNECT SWITCH AND WIRING TO REMAIN FOR RECONNECTION TO NEW UNIT.
9. EXISTING 208V, 150A/3P ASCO 911 REMOTE CONTROL SWITCH (CONTACTOR) MOUNTED IN ENCLOSURE LOCATED ABOVE CEILING. CONTACTOR IS USED TO DISCONNECT POWER TO ADJACENT PANELBOARD UPON ACTIVATION OF ASSOCIATED EMERGENCY PUSH BUTTON. REPLACE EXISTING CONTACTOR WITH NEW AS SHOWN ON NEW WORK PLANS.
10. REMOVE EXISTING POWER POLE IN ITS ENTIRETY. REMOVE ALL BRANCH CIRCUIT WIRING BACK TO SOURCE. REMOVE DATA CABLING TO ABOVE ACCESSIBLE CEILING, COIL, AND LABEL FOR REUSE OR REMOVAL BY OWNER.



4 CHEMISTRY DEPARTMENT NEW WORK PLAN - POWER & SYSTEMS
1/8" = 1'-0"

CODED NOTES - ELECTRICAL NEW WORK PLAN - POWER & SYSTEMS

1. PROVIDE NEW GFCI RECEPTACLES TO REPLACE ALL EXISTING RECEPTACLES IN THIS ROOM AND CONNECT TO EXISTING WIRING. UNDER ALTERNATE BID, PROVIDE NEW WIRING TO DEVICES FROM SAME CIRCUIT BREAKER AS EXISTING DEVICE IS FED FROM. REFER TO GENERAL NOTE F FOR ADDITIONAL INFORMATION REGARDING RECEPTACLES DESIGNATED AS ‘XRN’.
2. PROVIDE POWER TO RECEPTACLES MOUNTED IN CASEWORK. EC TO INSTALL AND WIRE RECEPTACLE, FURNISHED WITH CASEWORK (TWO DUPLEX RECEPTACLES PER COUNTER-MOUNTED DOGHOUSE). UNDER BASE BID, EXTEND EXISTING CIRCUITING FROM ABOVE CEILING INTO CASEWORK AND PROVIDE FINAL CONNECTION AT EACH DEVICE. UNDER ALTERNATE BID, PROVIDE NEW CIRCUITING AS SHOWN FROM DESIGNATED PANELBOARD. TYPICAL FOR ALL RECEPTACLES SHOWN IN THIS PIECE OF CASEWORK.
3. EXTEND EXISTING CIRCUITING AND PROVIDE FINAL CONNECTION TO NEW FUME HOOD AND EXHAUST FAN. REFER TO DETAIL 3/E100 FORCONNECTION REQUIREMENTS. COORDINATE CONNECTIONS WITH GC AND HC.
4. UNDER ALTERNATE BID, PROVIDE NEW SINGLE-CHANNEL SURFACE-MOUNTED RACEWAY (WIREMOLD 3000 OR EQUAL) AND ASSOCIATED RECEPTACLES. PROVIDE NEW WIRING TO DEVICES FROM DESIGNATED CIRCUIT.
5. UNDER ALTERNATE BID, REPLACE EXISTING PANELBOARD INTERIOR WITH NEW AND REPLACE EXISTING PORTION OF FEEDER FROM ASSOCIATED CONTACTOR TO PANELBOARD (4-#1/0 AND 1-#6 GROUND IN 2” CONDUIT).
6. PROVIDE KEY-OPERATED EMERGENCY POWER AND GAS SHUT-OFF CONTROL STATION, ASCO #173C17 AND ASSOCIATED CONTROL WIRING BETWEEN CONTROL STATION, SECOND CONTROL STATION (PUSHBUTTON) LOCATION WITHIN ROOM, AND ASSOCIATED CONTACTOR. PROVIDE ENGRAVED NAMEPLATE AT CONTROL STATION LOCATION.
7. PROVIDE MUSHROOM PUSHBUTTON EMERGENCY POWER AND GAS SHUT-OFF CONTROL STATION, ASCO #173A19 AND ASSOCIATED CONTROL WIRING BETWEEN CONTROL STATION, SECOND CONTROL STATION (KEY-OPERATED) LOCATION WITHIN ROOM, AND ASSOCIATED CONTACTOR. PROVIDE ENGRAVED NAMEPLATE AT PUSHBUTTON LOCATION.
8. PROVIDE 208V, 150A/3P ASCO 911 REMOTE CONTROL SWITCH (CONTACTOR) MOUNTED IN ENCLOSURE LOCATED ABOVE CEILING TO DISCONNECT POWER TO ADJACENT PANELBOARD UPON ACTIVATION OF ASSOCIATED EMERGENCY PUSH BUTTONS DESCRIBED IN CODED NOTES 6 AND 7. PROVIDE ALL CONTROL WIRING AS REQUIRED FOR COMPLETE OPERATION.
9. LOCATION OF SERVICE CHASE. UTILIZE SERVICE CHASE TO EXTEND POWER FROM ABOVE ACCESSIBLE CEILING INTO CASEWORK AND TO RECEPTACLE LOCATIONS.
10. PROVIDE POWER TO RECEPTACLES AND RACEWAY FOR FUTURE DATA JACKS MOUNTED IN CASEWORK. EC TO INSTALL AND WIRE RECEPTACLE, FURNISHED WITH CASEWORK (ONE DUPLEX RECEPTACLE IN ONE GANG OF COUNTER-MOUNTED DOGHOUSE). UNDER BASE BID, EXTEND EXISTING CIRCUITING FROM ABOVE CEILING INTO CASEWORK AND PROVIDE FINAL CONNECTION AT EACH DEVICE. UNDER ALTERNATE BID, PROVIDE NEW CIRCUITING AS SHOWN FROM DESIGNATED PANELBOARD. PROVIDE FLEXIBLE NON-METALLIC CONDUIT FROM ABOVE THE ACCESSIBLE CEILING TO SECOND GANG AT EACH DOGHOUSE LOCATION FOR DATA CABLING BY OTHERS. PROVIDE PULL WIRE IN CONDUIT. TYPICAL FOR ALL RECEPTACLES SHOWN IN THIS PIECE OF CASEWORK.
11. CIRCUIT RECEPTACLES TO SPARE CIRCUIT BREAKER IN DESIGNATED PANEL.
12. EXTEND EXISTING CIRCUITING AND PROVIDE FINAL CONNECTION TO NEW STEAM GENERATOR. REFER TO DETAIL 4/E100 FOR CONNECTION REQUIREMENTS. COORDINATE CONNECTION REQUIREMENTS WITH PC.
13. EXISTING PANEL 'CH' IS A 225A, 120/208V, 3PH, 4W MLO PANEL WITH (42) 20A/1P CIRCUIT BREAKERS.
14. EXISTING PANEL ‘IC’ CONSISTS OF TWO 225A, 120/208V, 3PH, 4W MLO PANELS. SECTION ONE HAS (1) 20A/2P CIRCUIT BREAKER, (1) 20A/1P GFCI BREAKER, AND (27) 20A/1P CIRCUIT BREAKERS. SECTION TWO HAS (22) 20A/1P CIRCUIT BREAKERS.
15. EXISTING PANEL ‘OC’ CONSISTS OF TWO 225A, 120/208V, 3PH, 4W MLO PANELS. SECTION ONE HAS (30) 20A/1P CIRCUIT BREAKERS. SECTION TWO HAS (1) 20A/2P CIRCUIT BREAKER AND (16) 20A/1P CIRCUIT BREAKERS.
16. PROVIDE POWER CONNECTION TO GLASSWARE WASHER. ROUTE 2-#12 AND 1-#12 GROUND IN 3/4” CONDUIT TO SPARE CIRCUIT BREAKER IN DESIGNATED PANELBOARD. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER’S WRITTEN RECOMMENDATIONS AND PROVIDE COMPLETE CONNECTION AS REQUIRED.
17. PROVIDE GFCI RECEPTACLE MOUNTED AT 48" AFF FOR NEW ICEMAKER.

GENERAL NOTES - SHEET E101

A. WHERE EXISTING DEVICES ARE REMOVED FROM EXISTING-TO-REMAIN WALLS, THE ELECTRICAL CONTRACTOR SHALL DO ONE OF THE FOLLOWING: IN DRYWALL WALLS, PATCH WALL TO MATCH EXISTING; IN BRICK/MASONRY WALLS, PROVIDE STAINLESS STEEL COVERPLATE ON EXISTING ABANDONED BOX. PAINT COVER TO MATCH ADJACENT WALL.
B. WHERE BLANK COVER PLATES ARE REQUIRED BY GENERAL AND/OR CODED NOTES, PROVDE PLATES THAT MEET THE FOLLOWING REQUIREMENTS: FABRICATED FROM FLAT STAINLESS STEEL WITH BEVELED EDGES AND A FINE BRUSHED FINISH TO MATCH RECEPTACLE FACEPLATES. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS.
C. COORDINATE DISCONNECTION AND REMOVAL OF ALL EQUIPMENT AND DEVICES WITH PHASING SCHEDULE.
D. CIRCUIT ALL EMERGENCY BATTERY UNITS LISTED AS 'EMERGENCY LIGHT FIXTURES' AHEAD OF ANY LOCAL SWITCHING/CONTROLS.
E. PROVIDE LABEL ON FACEPLATE OF ALL ELECTRICAL DEVICE FACEPLATES INDICATING PANELBOARD OF ORIGIN AND CIRCUIT NUMBER.
F. WHERE RECEPTACLES ARE NOTES AS 'XRN':
   a. UNDER BASE BID, REMOVE EXISTING RECEPTACLE AND REPLACE WITH NEW GFCI RECEPTACLE IN EXISTING BACKBOX. CONNECT NEW DEVICE TO EXISTING BRANCH CIRCUIT WIRING. PROVIDE NEW FACEPLATE.
   b. UNDER ALTERNATE BID, REPLACE EXISTING RECEPTACLE AND ASSOCIATED BRANCH CIRCUIT WIRING BACK TO PANELBOARD. REPLACE WITH NEW GFCI TYPE RECEPTACLE IN EXISTING BACKBOX AND PROVIDE NEW BRANCH CIRCUIT WIRING (2-#12 AND 1-#12 GROUND) IN EXISTING CONDUIT. PROVIDE NEW FACEPLATE.
G. ALL NEW DUPLEX RECEPTACLES SHOWN ABOVE COUNTERTOPS SHALL BE GFCI TYPE.
H. UNLESS NOTED OTHERWISE, INSTALL NEW DEVICES AND CABLING CONCEALED IN WALLS. IN AREAS OF RENOVATION, WHERE POSSIBLE, UTILIZE EXISTING CONDUIT OR WALL CAVITY AS RACEWAY. WHERE EXISTING WALL CANNOT BE FISHED, PROVIDE SURFACE MOUNTED BACKBOX AND SURFACE METAL RACEWAY. WHERE RACEWAY FEEDS ONLY ONE TYPE OF CABLING, PROVIDE SINGLE-CHANNEL RACEWAY, WIREMOLD 3000 SERIES. IN ORDER TO MAINTAIN A NEAT INSTALLATION. COORDINATE EXACT LOCATIONS OF ALL SURFACE RACEWAY INSTALLATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

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REGISTERED PROFESSIONAL ENGINEER
T STEFFANIE BAKO
PE-061041
01/20/2025

REVISIONS

100% CONSTRUCTION DOCUMENTS

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WESTMORELAND COUNTY COMMUNITY COLLEGE 145 PAVILLION LANE
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ELECTRICAL DEMOLITION AND NEW WORK

Proj No. 21-U04-01
Issue Date 01/20/2025

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