

IUB RESEARCH LAB RENOVATIONS

CLIENT PROJECT NO. - 20240397

INDIANA UNIVERSITY BLOOMINGTON

BL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
BL027 SWAIN WEST
729 E 3RD ST, BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

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| M501 HVAC SCHEDULES | |
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| M701 PIPING RELATED DETAILS | |
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BSA

BSA LifeStructures
9365 Counselors Row, Suite 300
Indianapolis, IN 46240-1478
ph 317.819.7878 fx 317.819.7288

| MARK | DATE | DESCRIPTION |
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BIDDING SET
JANUARY 9, 2025

COVER SHEET

BL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
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GENERAL NOTES AND SYMBOLS

A000

NEW GRIDLINE

GRID DESIGNATION

EXISTING GRIDLINE

EXTERIOR ELEVATION SYMBOL

BUILDING SECTION SYMBOL

WALL SECTION SYMBOL

INTERIOR ELEVATION SYMBOL (MULTIPLE)

INTERIOR ELEVATION SYMBOL

INTERIOR SECTION SYMBOL

DETAIL SECTION SYMBOL

ENLARGED PLAN AND PLAN DETAIL CALLOUT

ARCHITECTURAL GENERAL NOTES

- | | |
|----|--|
| A. | VERIFY WITH OWNER REQUIREMENTS FOR EQUIPMENT (MOUNTING HEIGHTS, LOCATIONS AND SIZES) INCLUDING OWNER FURNISHED OWNER INSTALLED ITEMS. |
| B. | VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION. IF EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN, NOTIFY ARCHITECT/ENGINEER IMMEDIATELY. |
| C. | VERIFY ALL FRAMING, BRACING AND CONNECTIONS SHALL BE FIREPROOFED IN ACCORDANCE WITH SPECIFICATION SECTION 07 8100. |
| D. | ADVISE ARCHITECT WHERE 18" MINIMUM ADA REQUIRED CLEARANCE ADJACENT TO STRIKES OF DOOR OR SWING SIDE OF DOOR > 12" MINIMUM ON OPPOSITE SIDE OF DOOR CANNOT BE PROVIDED. |
| E. | REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATES AND LOCATIONS OF EQUIPMENT PADS. |
| F. | VERIFY FINAL LOCATION OF PUSH PADS, CARD READERS AND TOUCHLESS ACTUATORS WITH OWNER BEFORE INSTALLATION. |
| G. | VERIFY LOCATIONS ABOVE AND BELOW CEILING, WALL, CEILING IN ISOLATION AND PROCEDURE ROOMS. |

NOTE: NOT ALL ABBREVIATIONS USED ON PROJECT

| | | | | | |
|--------|---|--------|---|-------|----------------------------|
| ACT | ARCHITECT/ENGINEER | | | RB | RESILIENT BASE |
| ADA | ACOUSTICAL CEILING TILE | GA | GAUGE | RCP | REFLECTED CEILING PLAN |
| ADH | ADHERENTS WITH DISABILITIES ACT | GLV | GALVANIZED | RCPTN | RECEPTION |
| ADJ | ADJACENT | GLT | GLASS TILE | ROF | ROOF DRAIN |
| AF | ACCESS FLOORING | GLZ | GLAZING | REBAR | REINFORCING STEEL BARS |
| AFB | ABOVE FINISH FLOOR | GYP | GYP BOARD | REC | RECESSED |
| AHU | AIR HANDLING UNIT | GYP BD | | RECPT | RECEPTACLE |
| ALT | ALTERNATE | | | REF | REFERENCE (REFER TO) |
| AL | ALUMINUM | H | HIGH | REG | REGISTER |
| ALUM | ALUMINUM | HAZ | HAZARD | REINF | REINFORCEMENT |
| ANOD | ANODIZED | HCP | HANDICAPPED | REQD | REQUIRED |
| APPROX | APPROXIMATE(LY) | HDW | HARDWARE | REST | RESTROOM |
| ARCH | ARCHITECTURAL | HM | HOLLOW METAL | REV | REVISION |
| AUTO | AUTOMATIC | HO | HOLD OPEN | RF | ROUGH FLOORING |
| | | HORIZ | HORIZONTAL | RFI | REQUEST FOR INFORMATION |
| | | HR | HOUR(S) [FIRE RESISTANCE RATING], OR HANDRAIL | ROOM | ROOM |
| | | HSKPG | HOUSEKEEPING | RO | ROUGH OPENING |
| | | HT | HEIGHT | RS | ROLLER SHADE |
| | | | | RST | RESILIENT STAIR TREAD |
| BL | BLINDS | | | | |
| BLKGD | BUILDING | | | | |
| BLKHD | BULKHEAD | | | | |
| BOT | BOTTOM | IBC | INTERNATIONAL BUILDING CODE | | |
| BR | BRAMP RAIL | ID | INSIDE DIAMETER (DIMENSION) | S | SOUTH |
| BSMT | BASEMENT | IDEN | IDENTIFICATION | SC | SEALED CONCRETE |
| BTWN | BETWEEN | INFO | INFORMATION | SCWD | SOLID CORE WOOD DOOR |
| | | INSUL | INSULATION | SDT | STATIC DISSIPATIVE TILE |
| | | INT | INTERIOR | SF | SQUARE FOOT (FEET) |
| | | | | SGD | SLIDING GLASS DOOR |
| | | | | SGL | SINGLE |
| CC | CUBICLE CURTAIN | LAV | LAVATORY | SHR | SHOWER |
| CFCI | CONTRACTOR FURNISHED/CONTRACTOR INSTALLED | LBS | POUNDS | SIM | SIMILAR |
| CFOI | CONTRACTOR FURNISHED/OWNER INSTALLED | LED | LIGHT EMITTING DIODE | SPEC | SPECIFICATION |
| CG | CORNER GUARD | LSF | LINOLEUM SHEET FLOORING | SPKR | SPEAKER |
| CJ | CONTROL JOINT | LTF | LINOLEUM TILE FLOORING | SQ | SQUARE |
| CL | CENTER LINE | LL | LEAD LINE | SS | SOLID SURFACE |
| CLB | CEILING | LVT | LUXURY VINYL TILE | SST | STAINLESS STEEL |
| CLR | CLEAR(ANCE) | LWC | LIGHTWEIGHT CONCRETE | STC | SOUND TRANSMISSION CLASS |
| CMU | CONCRETE MASONRY UNIT | | | STD | STANDARD |
| COL | COLUMN | MATL | MATERIAL | STL | STEEL |
| CONC | CONCRETE | MAX | MAXIMUM | STOR | STORAGE |
| CONST | CONSTRUCTION | MB | MARKER BOARD | STRUC | STRUCTURE(AL) |
| CONT | CONTINUOUS | MECH | MECHANICAL | SUB | SUBSTITUTE |
| COORD | COORDINATE | MEP | MECHANICAL, ELECTRICAL AND PLUMBING | SV | SHEET VINYL |
| CORR | CORRIDOR | MANF | MANUFACTURED | | |
| CORPT | CARPET | MFG | MANUFACTURING | | |
| CR | CARD READER, CRASH RAIL OR CHAIR RAIL | MFR | MANUFACTURER | T/ | TOP OF |
| CS | CAST STONE OR CULTURED STONE | MIN | MINIMUM | TA | TOUCHLESS ACTUATOR |
| CT | CERAMIC TILE | MISC | MISCELLANEOUS | TB | TACKBOARD |
| CTB | CERAMIC TILE BASE | MO | MASONRY OPENING | TEL | TELEPHONE |
| CTR | CENTER | MT | MOSAIC TILE | TEMP | TEMPORARY (TEMPERATURE) |
| CURT | CURTAIN | MTD | MOUNTED | TF | TACKABLE FABRIC |
| CWT | CERAMIC WALL TILE | MTL | METAL | THK | THICKNESS |
| | | | | THRU | THROUGH |
| | | | | TOC | TOP OF CONCRETE |
| D | DEPTH (DEEP) | N | NORTH | TOS | TOP OF STEEL |
| DAFS | DIRECT APPLIED FINISH SYSTEM | NOM | NOMINAL | TS | TUBE STEEL |
| DEMO | DEMOLITION | NTS | NOT TO SCALE | TSTAT | THERMOSTAT |
| DEPT | DEPARTMENT | | | TV | TELEVISION |
| DI | DRINKING FOUNTAIN | | | TYP | TYPICAL |
| DG | DECORATIVE GLASS | | | TZ | TERRAZZO FLOORING |
| DA | DIAMETER | OC | ON CENTER | T2B | TERRAZZO BASE |
| DAG | DIAGONAL | OD | OUTSIDE DIAMETER (DIMENSION) | | |
| DM | DIMENSION | OFCI | OWNER FURNISHED/CONTRACTOR INSTALLED | | |
| DISP | DISPENSER | OF/OI | OWNER FURNISHED/OWNER INSTALLED | UL | UNDERWRITER'S LABORATORIES |
| DOW | DOWN | OP | OPPOSITE HAND | | UNLESS NOTED OTHERWISE |
| DP | DECORATIVE PANEL | OH DR | OVERHEAD (COILING) DOOR | UNL | UTILITY |
| DR | DOOR | OPNG | OPENING | | |
| DTL | DETAIL | OPP | OPPOSITE | | |
| DWG | DRAWING | OR | OPERATING ROOM | | |
| DWGS | DRAWINGS | ORIG | ORIGINAL | VAR | VARIABLES |
| | | OVHD | OVERHEAD | VB | VINYL BASE |
| | | | | VCT | VINYL COMPOSITION TILE |
| E | EAST | | | VERT | VERTICAL |
| EA | EACH | P | PAINT | VEST | VESTIBULE |
| EOT | ET CETERA (AND SO FORTH) | PB | PUSH BUTTON | VET | VINYL ENHANCED TILE |
| EIFS | EXTERIOR INSULATION AND FINISH SYSTEM | PERF | PERFORATED | VIF | VINYL FIELD |
| EJ | EXPANSION JOINT | PL | PROPERTY LINE, OR PLASTIC LAMINATE | VWC | VINYL WALL COVERING |
| EL | ELEVATION | PLM | PLASTIC LAMINATE | | |
| ELEC | ELECTRIC(AL) | PLBG | PLUMBING | | |
| ELEV | ELEVATOR | PLYWD | PLYWOOD | | |
| EMER | EMERGENCY | PME | PAINT OR PATCH TO MATCH EXISTING | W | WEST (WIDE) |
| ENGR | ENGINEER | PNEU | PNEUMATIC | W/ | WITH |
| EOS | EDGE OF SLAB | PP | PAIR | W/O | WITHOUT |
| EP | EPOXY PAINT | PREFAB | PREFABRICATE | WOOD | WOOD |
| EPO | EMERGENCY POWER OFF | PREP | PREPARATION | WDW | WINDOW |
| EQ | EQUAL | PREV | PREVIOUS | WF | WIDE FLANGE |
| EQUIP | EQUIPMENT | PSI | POUNDS PER SQUARE INCH | WM | WALK-OFF MAT |
| ETR | EXISTING TO REMAIN | PT | PORCELAIN TILE | WPT | WORKING POINT |
| EWG | ELECTRIC WATER COOLER | PTB | PORCELAIN TILE BASE | WR | WEATHER RESISTANT |
| EWS | EYE WASH STATION | PTN | PARTITION | WT | WEIGHT |
| EXH | EXHAUST | PWR | POWER | WW | WOOD VENEER WALLCOVERING |
| EXIST | EXISTING | | | WWF | WELDED WIRE FABRIC |
| EXT | EXTERIOR | | | | |
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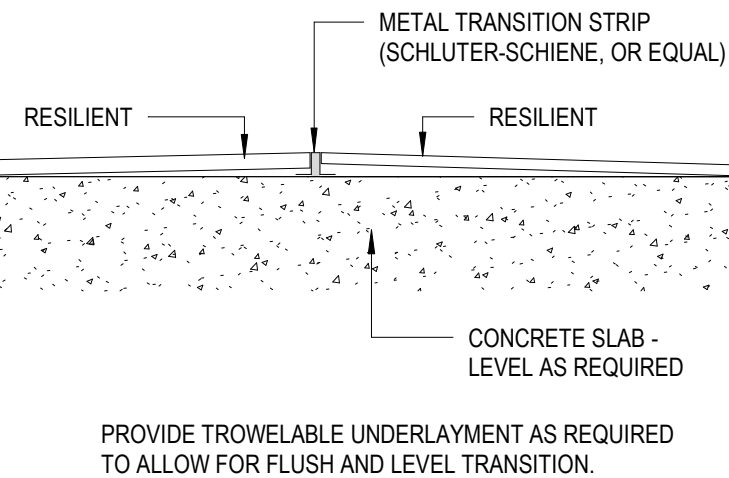
FINISH SCHEDULE - INTERIOR

| SPECIFICATION SECTION | MARK | DESCRIPTION | MANUFACTURER | STYLE/MODEL | COLOR | SIZE | COMMENTS | CONTACT |
|-----------------------|------|--|--------------------------|---------------------------------|----------------------------|---|---|---|
| CONCRETE FLOOR FINISH | | | | | | | | |
| | SC1 | CONCRETE FLOOR FINISH, HIGH GLOSS CLEAR SEALER | | | | | | |
| PAINTS AND COATINGS | | | | | | | | |
| 09 9000 | P1 | PAINT | SHERWIN WILLIAMS | SW 7042 | SHOJI WHITE | | | KAREN GALVIN KAREN.E.GALVIN@SHERWIN.COM |
| 09 9000 | P2 | PAINT | SHERWIN WILLIAMS | SW 7005 | PURE WHITE | | | KAREN GALVIN KAREN.E.GALVIN@SHERWIN.COM |
| 09 9000 | P3 | PAINT | BENJAMIN MOORE | HC-176 | ANNAPOLIS GRAY | | OR SHERWIN WILLIAMS TO MATCH | KAREN GALVIN KAREN.E.GALVIN@SHERWIN.COM |
| 09 9000 | P4 | PAINT | SHERWIN WILLIAMS | SW 7046 | ANCHORHOU | | | KAREN GALVIN KAREN.E.GALVIN@SHERWIN.COM |
| 09 9000 | P5 | PAINT | SHERWIN WILLIAMS | SW 7675 | SEALSKIN | | | KAREN GALVIN KAREN.E.GALVIN@SHERWIN.COM |
| 09 9000 | P6 | PAINT | | MATCH ADJACENT WALL FINISH | MATCH ADJACENT WALL FINISH | MATCH ADJACENT WALL FINISH | | KAREN GALVIN KAREN.E.GALVIN@SHERWIN.COM |
| RESILIENT BASE | | | | | | | | |
| 09 6500 | RB1 | RESILIENT BASE | ROPPE | THERMOSET RUBBER COVE BASE | 129 DOLPHIN | 4"H | | JOE TUFFNER: 630.947.6654 |
| 09 6500 | RB2 | RESILIENT BASE | TARKETT | THERMOSET RUBBER COVE BASE | 63 BURNT UMBER | 4"H | | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| 09 6500 | RB3 | RESILIENT BASE | MARLEY | FLEXCO FLEXTONES | 03 CHARCOAL | 4"H | | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| 09 6500 | LV1 | LUXURY VINYL TILE | MANNINGTON | KURA | FENNEL ARCSKU04 | 12" X 12" | | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| 09 6500 | RF1 | RUBBER SHEET FLOORING | KORK SYSTEMS | 10 OPTIMA | CASHMERE | 2.0MM THICK, 2M WIDE SHEET | | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| 09 6500 | RF2 | VINYL SHEET FLOORING | TARKETT | GERFLOR | 205 SOFT WARM WHITE | 2.0MM THICK, 2M WIDE SHEET | | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| 09 6500 | RF3 | VINYL SHEET FLOORING | GERFLOR | MIPOLAM ELEGANCE 290 | FEILD, D137 OPAL | | MIMIC EXISTING PATTERN | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| 09 6500 | SDT1 | STATIC DISSIPATIVE TILE | TARKETT | 10 GRANIT SD | 0396 LIGHT GREY | 24" X 24" | | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| 09 6500 | VCT1 | VINYL COMPOSITION TILE | TARKETT | VCT II | 326 DUNES CB | 12" X 12" | | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| TILE CARPETING | | | | | | | | |
| 09 6813 | CPT1 | CARPET TILE | TARKETT | ACCENTUATE SERIES 04119 ESPARTO | 45206 BARK CLOTH | 24" X 24" | MONOLITHIC INSTALLATION, RUNNING NORTH/SOUTH U.N.O. | DOUG EDWARDS DOUG.EDWARDS@TARKETT.COM |
| WALL PROTECTION | | | | | | | | |
| 10 2600 | CG1 | CORNER GUARD | CONSTRUCTION SPECIALTIES | CO-8 | STAINLESS STEEL | 2" MIN. 7-2" TO TOP (6-10" UNIT HEIGHT) | | AMY BAKER FENRIBACH Amy@wfbakergroup.com, 317.407.2534 |

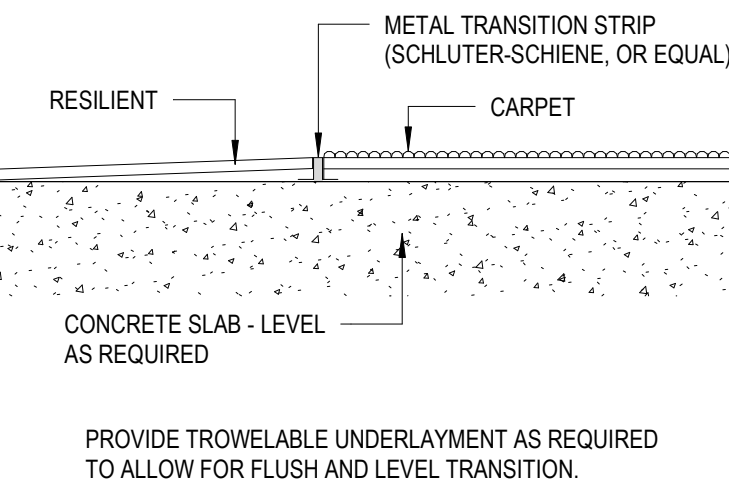
CEILING SCHEDULE

| TYPE MARK | DESCRIPTION | BASIS OF DESIGN MANUFACTURER | CEILING TYPE | | | | SUSPENSION SYSTEM | | | |
|--------------|--------------------------------|------------------------------|----------------|---------|--------|-------|--------------------------|--|--------|-------|
| | | | STYLE NAME | MODEL # | SIZE | COLOR | GRID SYSTEM | | SIZE | COLOR |
| ACT-1 | ACOUSTICAL TILE CEILING SYSTEM | ARMSTRONG WORLD INDUSTRIES | CIRRUS REGULAR | 555 | 12 X 2 | WHITE | ARMSTRONGS PRELUDE 15/16 | | 12 X 2 | WHITE |

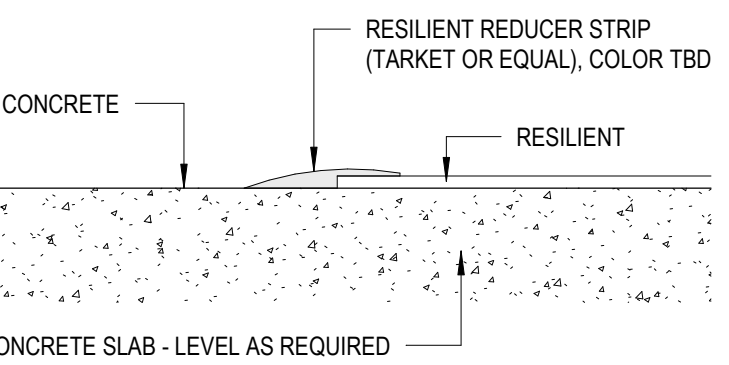
4 BASE DETAIL - INTEGRAL COVE
A000 3" = 1'-0"



3 FLOOR TRANSITION - RESILIENT TO RESILIENT 03
A000 6" = 1'-0"



2 FLOOR TRANSITION - RESILIENT TO CARPET 02
6" = 1'-0"



1 FLOOR TRANSITION - CONCRETE TO RESILIENT 01
6" = 1'-0"

IUB
RESEARCH
LAB
RENOVATIONSBL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
BL027 SWAIN HALL
729 E 3RD ST, BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

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| MARK | DATE | DESCRIPTION |
|------|----------|-------------|
| 2 | 01/29/25 | ADDENDUM 3 |

*Bob A. Chen*BL027 SWAIN -
DEMOLITION PLAN -
BASEMENT/SUB-BASEMENT
LEVELDATE JANUARY 9, 2025
BSALS PROJECT NO. 00360477

AD100

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DEMOLITION PLAN LEGEND

DEMOLITION NOTES

- A. ALL ITEMS SHOWN IN A BOLD DASHED LINE AND NOT OTHERWISE CALLED OUT, INDICATE EXISTING ITEMS OR WALLS TO BE CALLED OUT. REMOVE SUCH ITEMS TOTALLY AND COMPLETELY. DEMOLISHED. REMOVE SUCH ITEMS TOTALLY AND COMPLETELY. REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMIT AREA WHICH ARE NOT NOTED TO REMAIN. DISPOSE OF THESE ITEMS AFTER INSPECTION BY THE OWNER DETERMINES THEY ARE NOT TO BE SALVAGED. IF ITEMS ARE REMOVED FROM WALLS THAT ARE TO REMAIN, PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND/OR SURFACES. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION.
- D. ALL EXISTING BUMP RAILS SHALL BE REMOVED FROM THE WALLS THAT ARE MARKED AS TO BE REMOVED OR SCHEDULED TO RECEIVE NEW FINISHES. SALVAGE FOR POSSIBLE REUSE OR TRANSFER TO OWNER.
- E. REMOVE EXISTING CEILING FINISHES, INCLUDING BULKHEADS, AS APPLICABLE IN ALL AREAS WITHIN THE PROJECT LIMITS THAT ARE SCHEDULED TO RECEIVE NEW CEILINGS.
- F. WHERE PENETRATIONS THROUGH EXISTING RATED WALL PARTITIONS ARE REMOVED, PATCH AND REPAIR SUCH WALLS TO MAINTAIN THE RATING.

MatterPort Scans

Swain West

S20: <https://my.matterport.com/show/?m=cbDohQ7pZAB>011: <https://my.matterport.com/show/?m=FKBg75qHyL>013: <https://my.matterport.com/show/?m=avq6XBkX1bb>014: <https://my.matterport.com/show/?m=btEWUGa4d>

Chemistry

A103's: <https://my.matterport.com/show/?m=YDh3tCFLGb>A102/104: <https://my.matterport.com/show/?m=UYzVEnyTP6K>A122: <https://my.matterport.com/show/?m=ZG5m22e9eGb>A140's: <https://my.matterport.com/show/?m=ZJTvHPC86kG>A150's: <https://my.matterport.com/show/?m=ZE2horKeGKT>A251/252: <https://my.matterport.com/show/?m=8bjMJSR5EdS>

DEMOLITION SYMBOLS

ROOM NAME
101

EXISTING ROOM NAME AND NUMBER

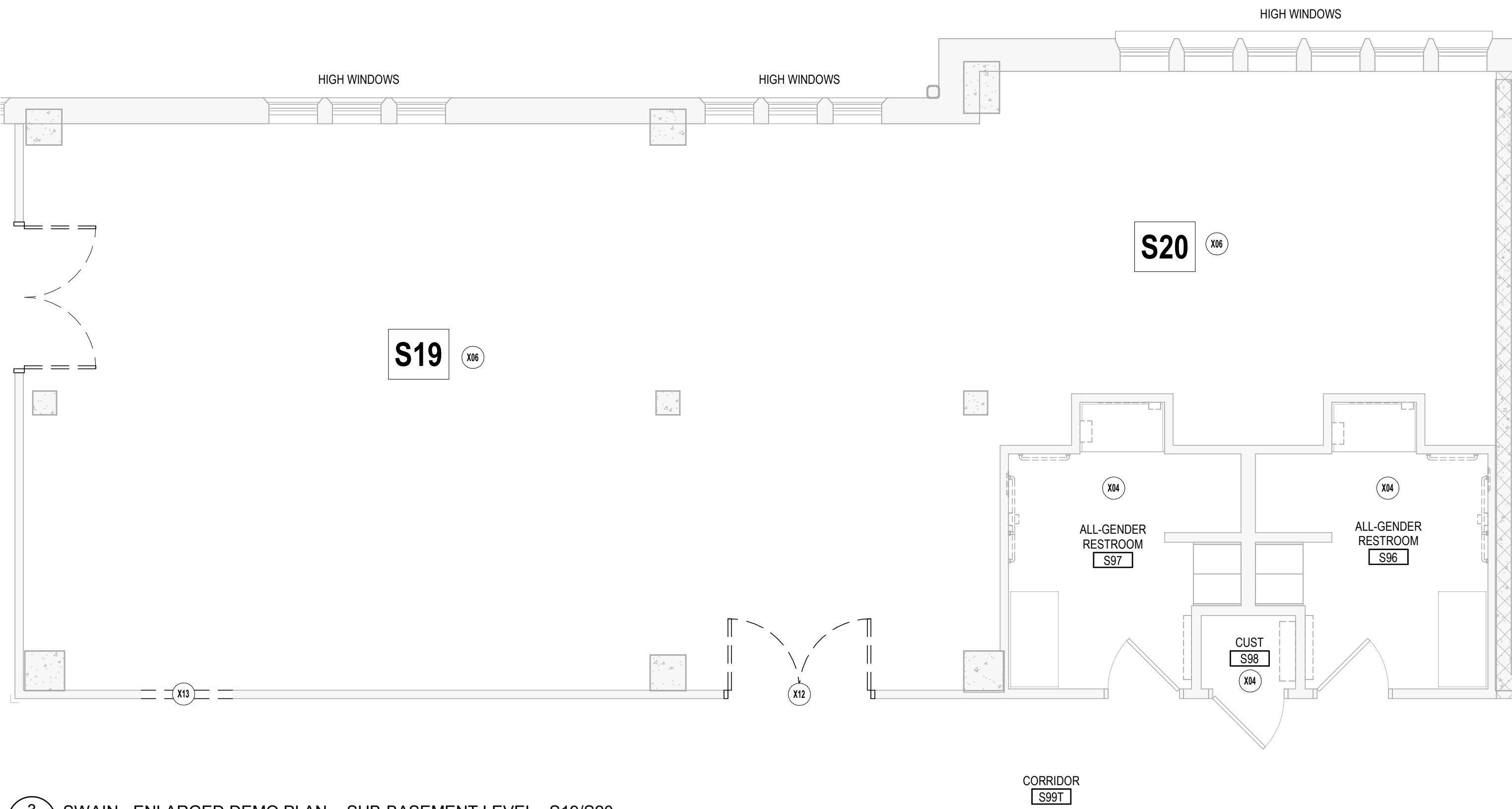
EXISTING WALL/PARTITION TO REMAIN

EXISTING WALL/PARTITION TO BE REMOVED

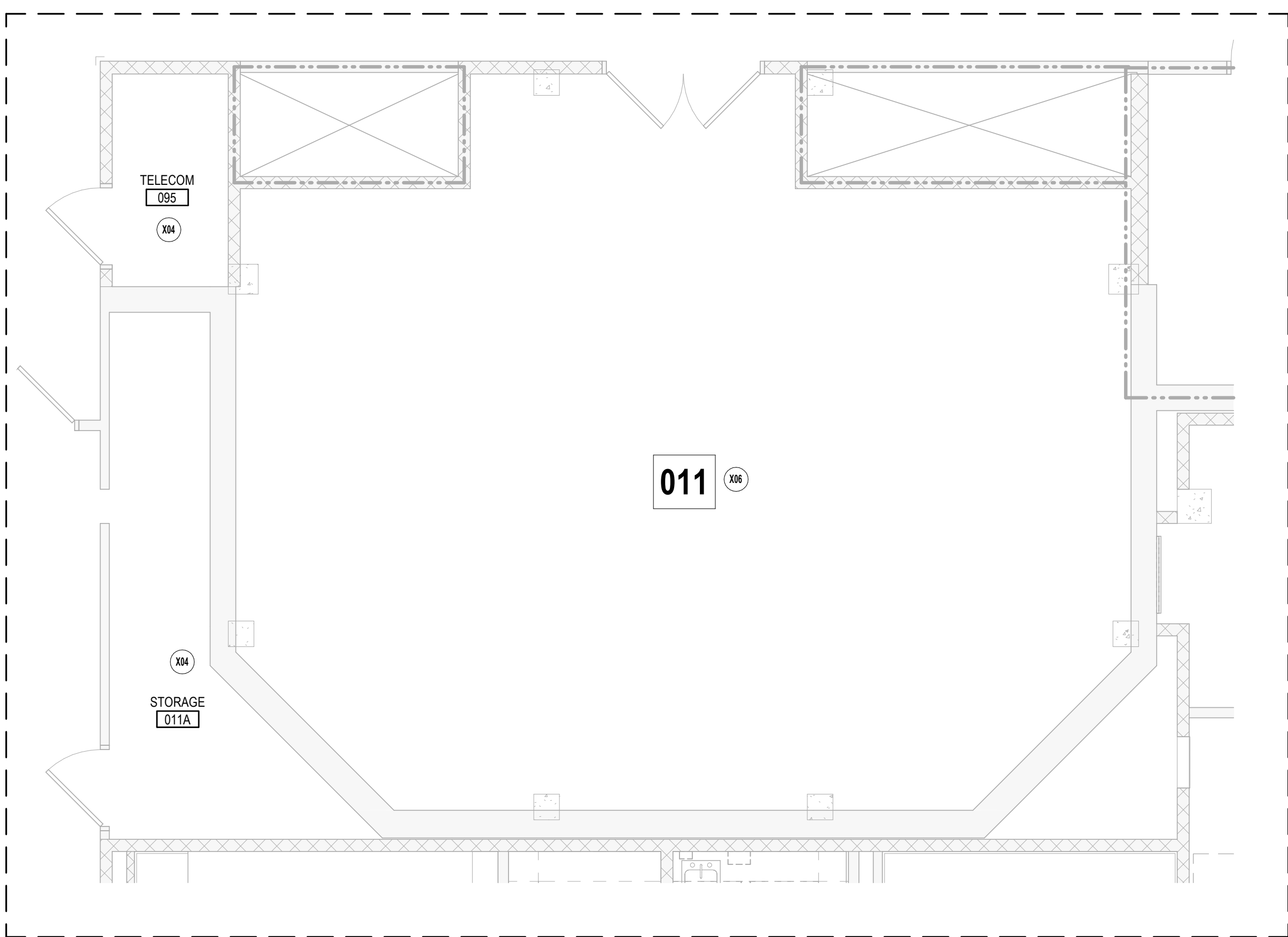
EXISTING ELEMENT TO BE REMOVED

KEYNOTE SCHEDULE

| NUMBER | TEXT |
|--------|--|
| X04 | EXISTING TO REMAIN. |
| X06 | REMOVE EXISTING FLOORING AND BASE IN THEIR ENTIRETY. PREPARE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION. |
| X12 | REMOVE DOOR, DOOR FRAME, & ALL ASSOCIATED DOOR HARDWARE. PREPARE FOR NEW CONSTRUCTION. |
| X13 | PORTION OF EXISTING WALL TO BE REMOVED TO RECEIVE NEW OPENING. SEE ARCHITECTURAL PLANS. PREPARE OPENING TO RECEIVE NEW DOOR, FRAME, AND HARDWARE. COORDINATE DIMENSIONS OF OPENING WITH DOOR SCHEDULE. |

3 SWAIN - ENLARGED DEMO PLAN - SUB-BASEMENT LEVEL - S19/S20
AD100 1/4" = 1'-0"

ALTERNATE #1



DEMOLITION PLAN LEGEND

DEMOLITION NOTES

A.

ALL ITEMS SHOWN IN A BOLD DASHED LINE AND NOT OTHERWISE CALLED OUT, INDICATE EXISTING ITEMS OR WALLS TO BE DEMOLISHED. REMOVE SUCH ITEMS TOTALLY AND COMPLETELY. REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMIT AREA WHICH ARE NOT NOTED TO REMAIN. DISPOSE OF THESE ITEMS AFTER INSPECTION BY THE OWNER DETERMINES THEY ARE NOT TO BE SALVAGED. IF ITEMS ARE REMOVED FROM WALLS THAT ARE TO REMAIN, PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND/OR SURFACES.

B.

REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION. ALL EXISTING BUMP RAILS SHALL BE REMOVED FROM THE WALLS THAT ARE MARKED AS TO BE REMOVED OR SCHEDULED TO RECEIVE NEW FINISHES. SALVAGE FOR POSSIBLE REUSE OR TRANSFER TO OWNER.

C.

REMOVE EXISTING CEILING FINISHES, INCLUDING BULKHEADS, AS APPLICABLE IN ALL AREAS WITHIN THE PROJECT LIMITS THAT ARE SCHEDULED TO RECEIVE NEW CEILINGS.

D.

WHERE PENETRATIONS THROUGH EXISTING RATED WALL PARTITIONS ARE REMOVED, PATCH AND REPAIR SUCH WALLS TO MAINTAIN THE RATING.

MatterPort Scans

Swain West

S20: <https://my.matterport.com/show/?m=cbDohQ7pZAB>

O11: <https://my.matterport.com/show/?m=FKBq75qHylL>

O13: <https://my.matterport.com/show/?m=avq6XBkX1bb>

O14: <https://my.matterport.com/show/?m=b1TEWUGa4d>

Chemistry

A103's: <https://my.matterport.com/show/?m=YDh3tcCFLGb>

A102/104: <https://my.matterport.com/show/?m=UY2vEryTP6K>

A122: <https://my.matterport.com/show/?m=ZG5m22e9eGb>

A140's: <https://my.matterport.com/show/?m=2JTVhPC86kG>

A150's: <https://my.matterport.com/show/?m=ZE2horKeGkT>

A251/252: <https://my.matterport.com/show/?m=BbjMJSR5EdS>

ROOM NAME

101

EXISTING ROOM NAME AND NUMBER

EXISTING WALL/PARTITION TO REMAIN

EXISTING WALL/PARTITION TO BE REMOVED

EXISTING ELEMENT TO BE REMOVED

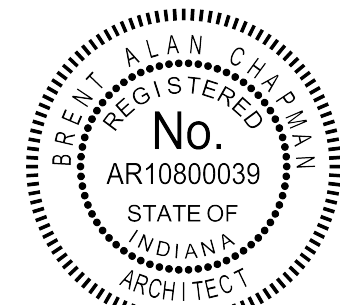
| KEYNOTE SCHEDULE | |
|------------------|--|
| NUMBER | TEXT |
| A21 | REPAIR EXISTING DOOR LEVER. |
| X02 | REMOVE EXISTING FUME HOOD AND ASSOCIATED CASEWORK BELOW. PREPARE LOCATION FOR NEW CONSTRUCTION. |
| X06 | REMOVE EXISTING FLOORING AND BASE IN THEIR ENTIRETY. PREPARE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION. |
| X07 | REMOVE EXISTING CASEWORK, FIXTURES, EQUIPMENT, FURNISHINGS IN THEIR ENTIRETY AND PREPARE SURFACES FOR NEW CASEWORK/FINISHES. |
| X12 | REMOVE EXISTING VENTILATED CABINET AND ASSOCIATED DUCTWORK IN ITS ENTIRETY. |
| X14 | REMOVE DOOR, DOOR FRAME, & ALL ASSOCIATED DOOR HARDWARE. PREPARE SURFACES FOR NEW CONSTRUCTION. |
| X19 | PORTION OF EXISTING WALL TO BE REMOVED TO RECEIVE NEW OPENING. SEE ARCHITECTURAL PLANS. PREPARE OPENING TO RECEIVE NEW DOOR, FRAME, AND HARDWARE. COORDINATE DIMENSIONS OF OPENING WITH DOOR SCHEDULE. |

IUB
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LAB
RENOVATIONSBL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
BL027 SWAIN WEST
729 E 3RD ST, BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

CLIENT PROJECT NO. - 20240397

BIDDING SET
JANUARY 9, 2025

| MARK | DATE | DESCRIPTION |
|------|----------|-------------|
| 3 | 01/29/25 | ADDENDUM 3 |

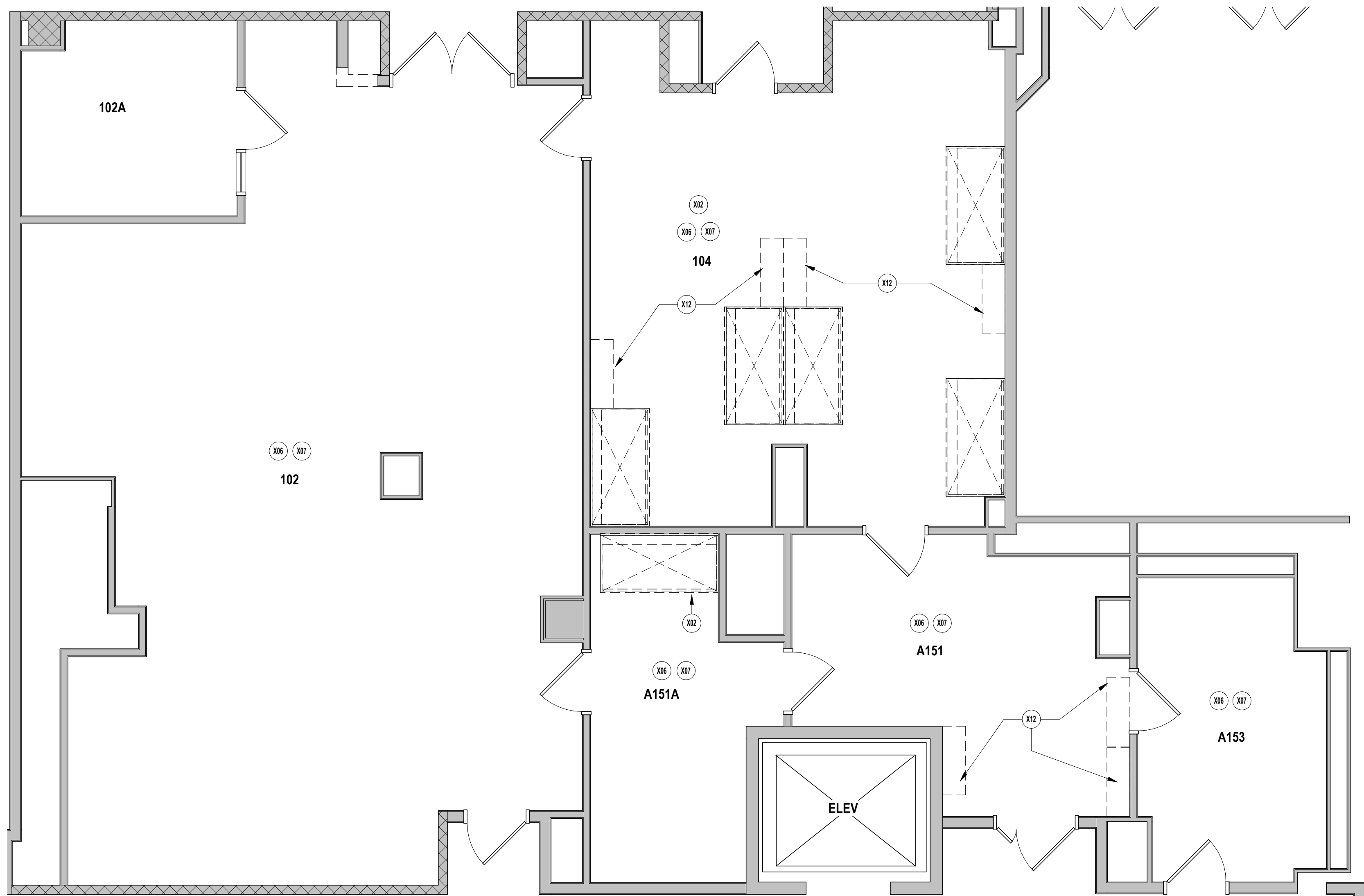
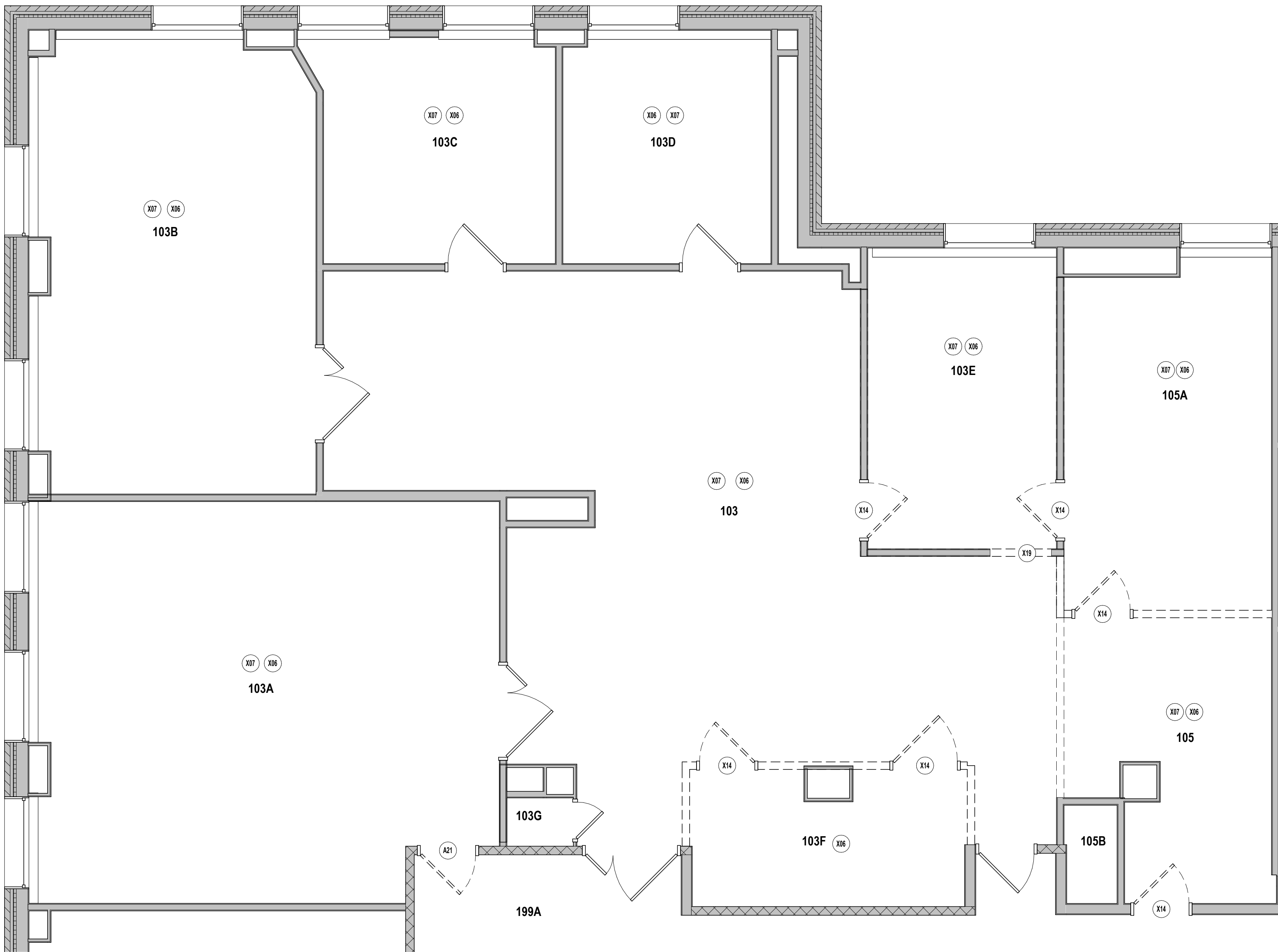


Brett A. Ch...

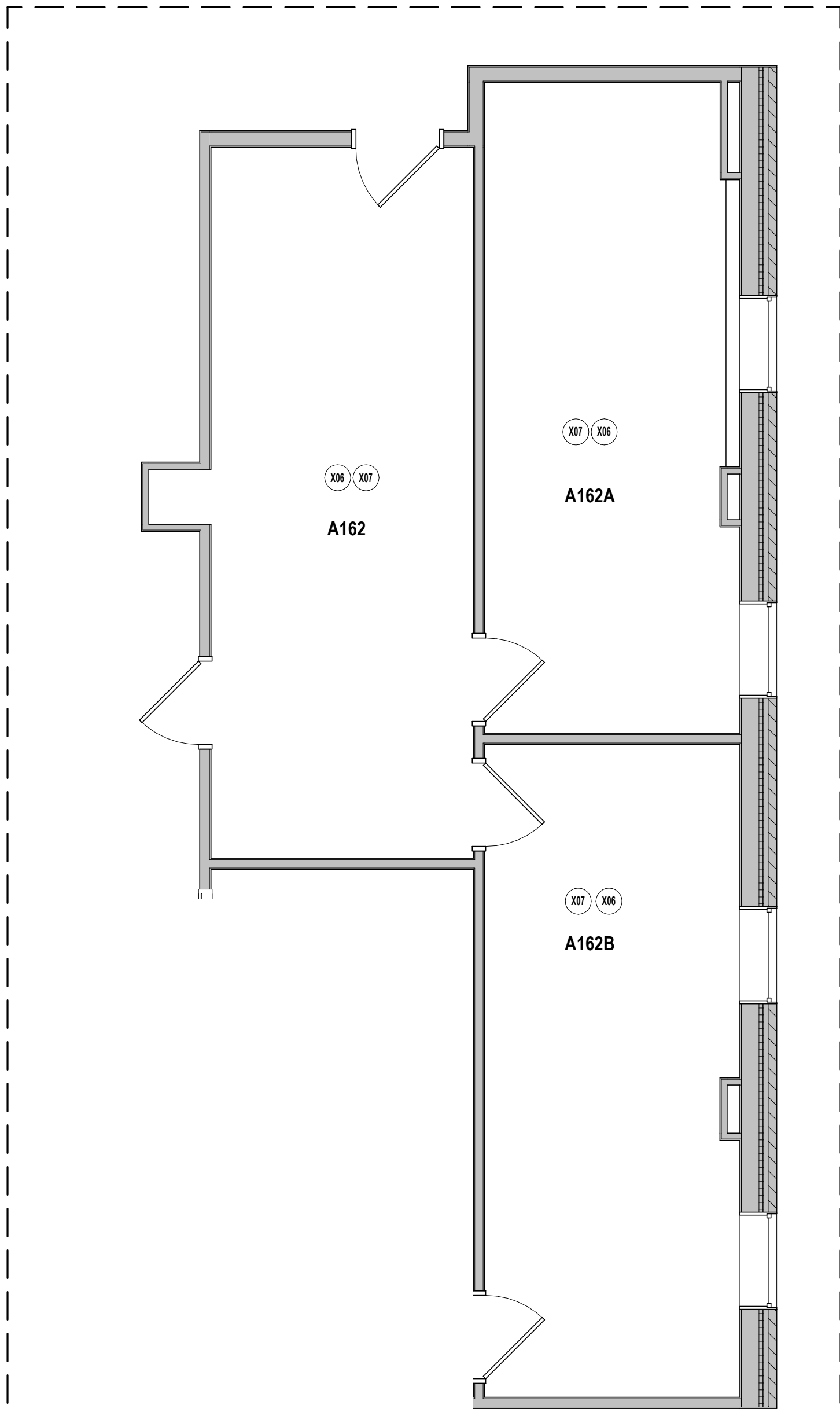
BL072 CHEMISTRY -
DEMOLITION PLAN - LEVEL
1DATE
BSALS PROJECT NO. 00360477

AD101A

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1 DEMOLITION FLOOR PLAN - FIRST FLOOR - 102/104/A151
AD101A 1/4" = 1'-0"2 DEMOLITION FLOOR PLAN - FIRST FLOOR - 103/105
AD101A 1/4" = 1'-0"

ALTERNATE #3

3 DEMOLITION FLOOR PLAN - FIRST FLOOR - 162 SUITE
AD101A 1/4" = 1'-0"

DEMOLITION PLAN LEGEND

DEMOLITION NOTES

A. ALL ITEMS SHOWN IN A BOLD DASHED LINE AND NOT OTHERWISE CALLED OUT, INDICATE EXISTING ITEMS OR WALLS TO BE DEMOLISHED. REMOVE SUCH ITEMS TOTALLY AND COMPLETELY. REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMIT AREA WHICH ARE NOT NOTED TO REMAIN. DISPOSE OF THESE ITEMS AFTER INSPECTION BY THE OWNER DETERMINES THEY ARE NOT TO BE SALVAGED. IF ITEMS ARE REMOVED FROM WALLS THAT ARE TO REMAIN, PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND/OR SURFACES.

B. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION. ALL EXISTING BUMP RAILS SHALL BE REMOVED FROM THE WALLS THAT ARE MARKED AS TO BE REMOVED OR SCHEDULED TO RECEIVE NEW FINISHES. SALVAGE FOR POSSIBLE REUSE OR TRANSFER TO OWNER.

C. REMOVE EXISTING CEILING FINISHES, INCLUDING BULKHEADS, AS APPLICABLE IN ALL AREAS WITHIN THE PROJECT LIMITS THAT ARE SCHEDULED TO RECEIVE NEW CEILINGS.

D. WHERE PENETRATIONS THROUGH EXISTING RATED WALL PARTITIONS ARE REMOVED, PATCH AND REPAIR SUCH WALLS TO MAINTAIN THE RATING.

MatterPort Scans

Swain West
S20: <https://my.matterport.com/show/?m=cbDohQ7pZAB>
011: <https://my.matterport.com/show/?m=FKBg75qHylL>
013: <https://my.matterport.com/show/?m=avq6XBkX1bb>
014: <https://my.matterport.com/show/?m=b1TEWUGa4d>

Chemistry
A103's: <https://my.matterport.com/show/?m=YDh3tcCFLGb>
A102/104: <https://my.matterport.com/show/?m=UY2vEryTP6K>
A122: <https://my.matterport.com/show/?m=ZG5m22e9eGb>
A140's: <https://my.matterport.com/show/?m=2JTVhPC86kG>
A150's: <https://my.matterport.com/show/?m=ZE2horkGKT>
A251/252: <https://my.matterport.com/show/?m=8bjMJSR5EdS>

ROOM NAME

101

EXISTING ROOM NAME AND NUMBER

EXISTING WALL/PARTITION TO REMAIN

EXISTING WALL/PARTITION TO BE REMOVED

EXISTING ELEMENT TO BE REMOVED

| KEYNOTE SCHEDULE | |
|------------------|--|
| NUMBER | TEXT |
| X02 | REMOVE EXISTING FUME HOOD AND ASSOCIATED CASEWORK BELOW. PREPARE LOCATION FOR NEW CONSTRUCTION. |
| X04 | EXISTING TO REMAIN. |
| X06 | REMOVE EXISTING FLOORING AND BASE IN THEIR ENTIRETY. PREPARE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION. |
| X07 | REMOVE EXISTING CASEWORK, FIXTURES, EQUIPMENT, FURNISHINGS IN THEIR ENTIRETY AND PREPARE SURFACES FOR NEW CASEWORK/FINISHES. |
| X14 | REMOVE DOOR, DOOR FRAME, & ALL ASSOCIATED DOOR HARDWARE. PREPARE SURFACES FOR NEW CONSTRUCTION. |
| X16 | REMOVE EXISTING FIN TUBE ENCLOSURE. |
| X18 | REMOVE EXISTING WINDOW SILL IN ITS ENTIRETY. PREPARE TO RECEIVE NEW FINISHES. |
| X19 | PORTION OF EXISTING WALL TO BE REMOVED TO RECEIVE NEW OPENING. SEE ARCHITECTURAL PLANS. PREPARE OPENING TO RECEIVE NEW DOOR, FRAME, AND HARDWARE. COORDINATE DIMENSIONS OF OPENING WITH DOOR SCHEDULE. |

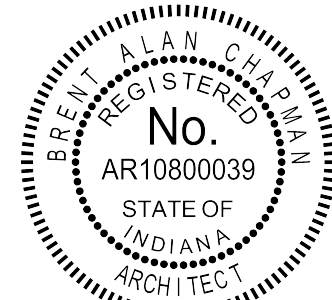
IUB
RESEARCH
LAB
RENOVATIONS

BL072 CHEMISTRY
800 E KIRKWOOD AVE., BLOOMINGTON, IN 47405
BL027 SWAIN WEST
729 E 3RD ST., BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR., BLOOMINGTON, IN 47405

CLIENT PROJECT NO. - 20240397

BIDDING SET
JANUARY 9, 2025

| MARK | DATE | DESCRIPTION |
|------|----------|-------------|
| 3 | 01/29/25 | ADDENDUM 3 |

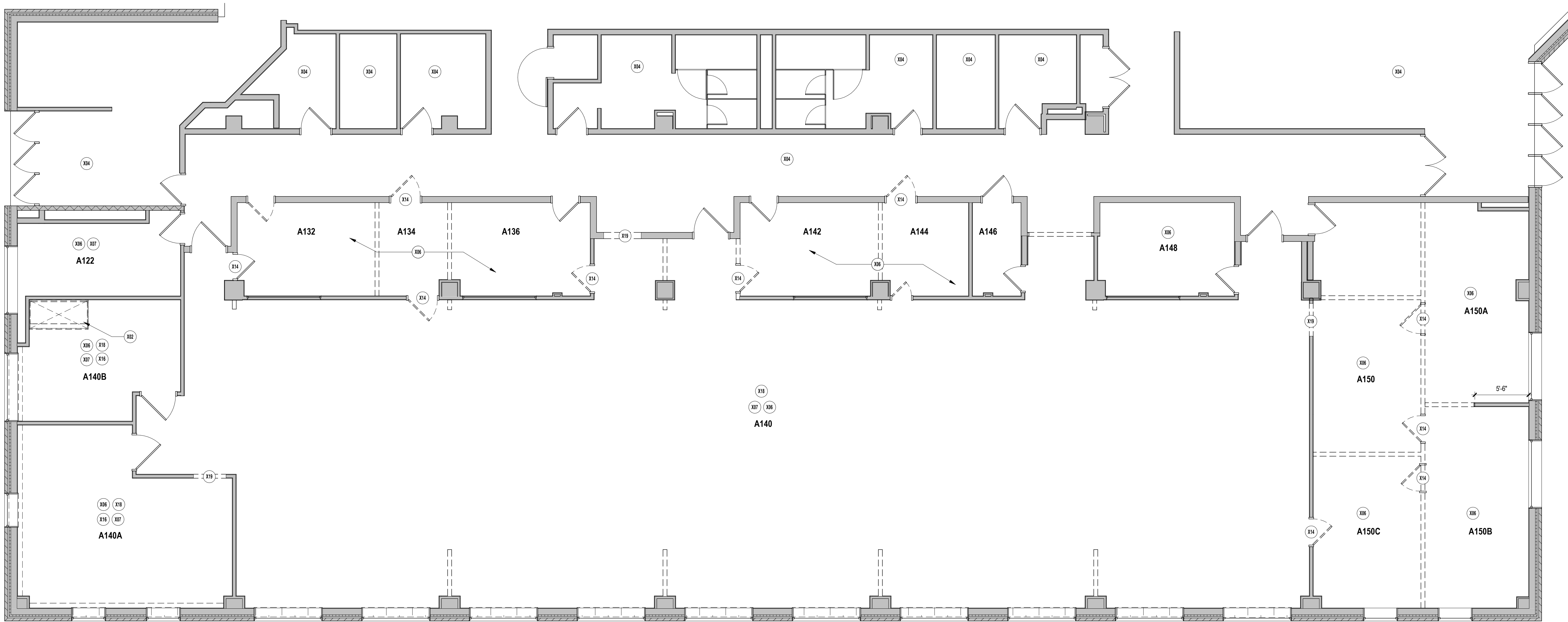


Barry A. Ch...

BL072 CHEMISTRY -
DEMOLITION PLAN - LEVEL
1

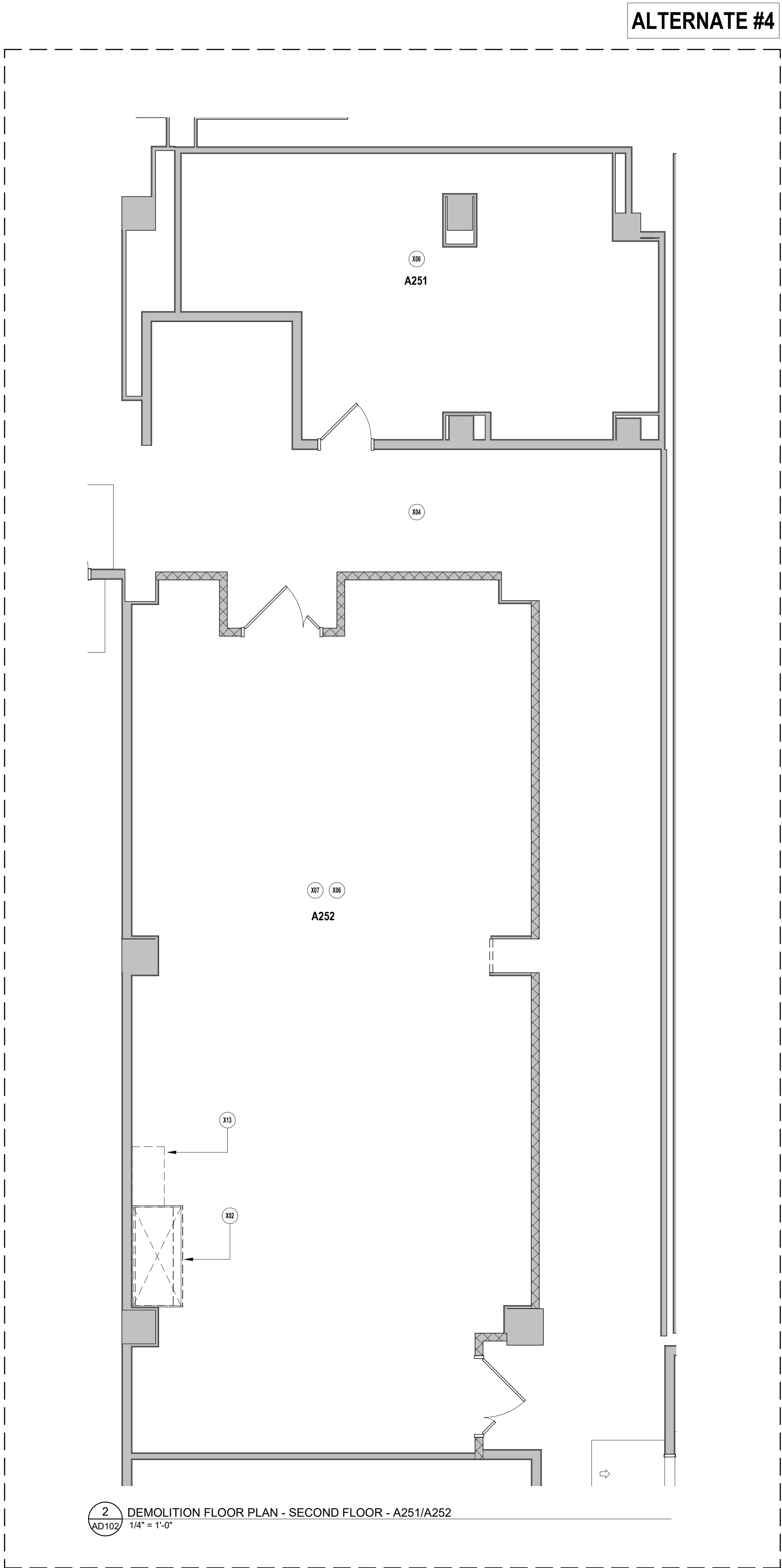
DATE
BSALS PROJECT NO. 00360477

AD101B



1 DEMOLITION FLOOR PLAN - FIRST FLOOR - A140/A150
AD101B 3/16" = 1'-0"

1/29/2025 1:13:28 PM
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DEMOLITION PLAN LEGEND

DEMOLITION NOTES

A. ALL ITEMS SHOWN IN A BOLD DASHED LINE AND NOT OTHERWISE CALLED OUT, INDICATE EXISTING ITEMS OR WALLS TO BE DEMOLISHED. REMOVE SUCH ITEMS TOTALLY AND COMPLETELY.

B. REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMIT AREA WHICH ARE NOT NOTED TO REMAIN. DISPOSE OF THESE ITEMS AFTER INSPECTION BY THE OWNER DETERMINES THEY ARE NOT TO BE SALVAGED. IF ITEMS ARE REMOVED FROM WALLS THAT ARE TO REMAIN, PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND/OR SURFACES.

C. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION.

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F. WHERE PENETRATIONS THROUGH EXISTING RATED WALL PARTITIONS ARE REMOVED, PATCH AND REPAIR SUCH WALLS TO MAINTAIN THE RATING.

MatterPort Scans

Swain West
S20: <https://my.matterport.com/show/?m=cbDohQ7pZAB>
011: <https://my.matterport.com/show/?m=FKBq75qHylL>
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014: <https://my.matterport.com/show/?m=b1TEWUGa4d>

Chemistry
A103's: <https://my.matterport.com/show/?m=YDh3tcCFLGb>
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A122: <https://my.matterport.com/show/?m=ZG5m22e9eGb>
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A150's: <https://my.matterport.com/show/?m=ZE2horkGKT>
A251/252: <https://my.matterport.com/show/?m=BbjMJSR5EdS>

ROOM NAME
101

EXISTING ROOM NAME AND NUMBER

EXISTING WALL/PARTITION TO REMAIN

EXISTING WALL/PARTITION TO BE REMOVED

EXISTING ELEMENT TO BE REMOVED

| KEYNOTE SCHEDULE | |
|------------------|--|
| NUMBER | TEXT |
| X02 | REMOVE EXISTING FUME HOOD AND ASSOCIATED CASEWORK BELOW. PREPARE LOCATION FOR NEW CONSTRUCTION. |
| X04 | EXISTING TO REMAIN. |
| X06 | REMOVE EXISTING FLOORING AND BASE IN THEIR ENTIRETY. PREPARE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION. |
| X07 | REMOVE EXISTING CASEWORK, FIXTURES, EQUIPMENT, FURNISHINGS IN THEIR ENTIRETY AND PREPARE SURFACES FOR NEW CASEWORK/FINISHES. |
| X13 | REMOVE EXISTING FULL HEIGHT CHEMICAL STORAGE CABINET AND ASSOCIATED DUCTWORK IN ITS ENTIRETY. |

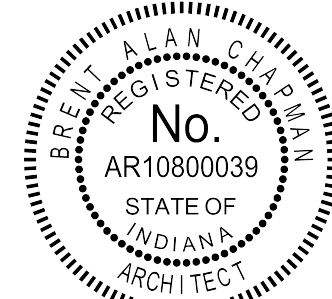
IUB RESEARCH LAB RENOVATIONS

BL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
BL027 SWAIN WEST
729 E 3RD ST, BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

CLIENT PROJECT NO. - 20240397

BIDDING SET
JANUARY 9, 2025

| MARK | DATE | DESCRIPTION |
|------|----------|-------------|
| 3 | 01/29/25 | ADDENDUM 3 |



Robert A. Chapman

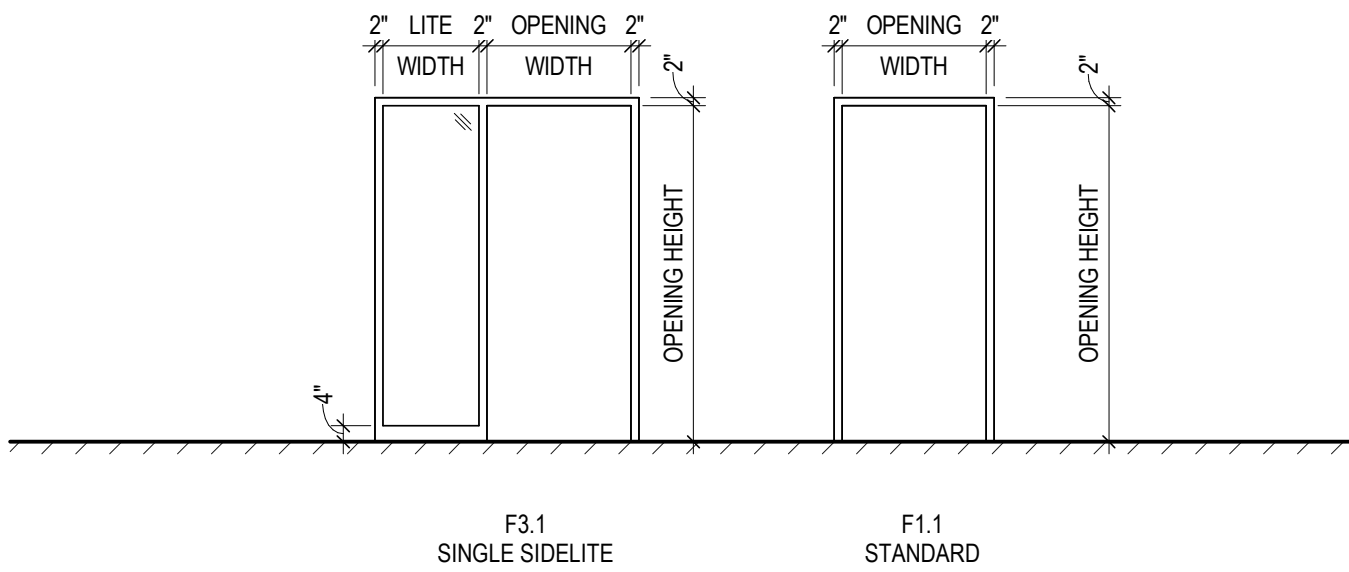
BL072 CHEMISTRY -
DEMOLITION PLAN - LEVEL
2

DATE
BSALS PROJECT NO. 00360477

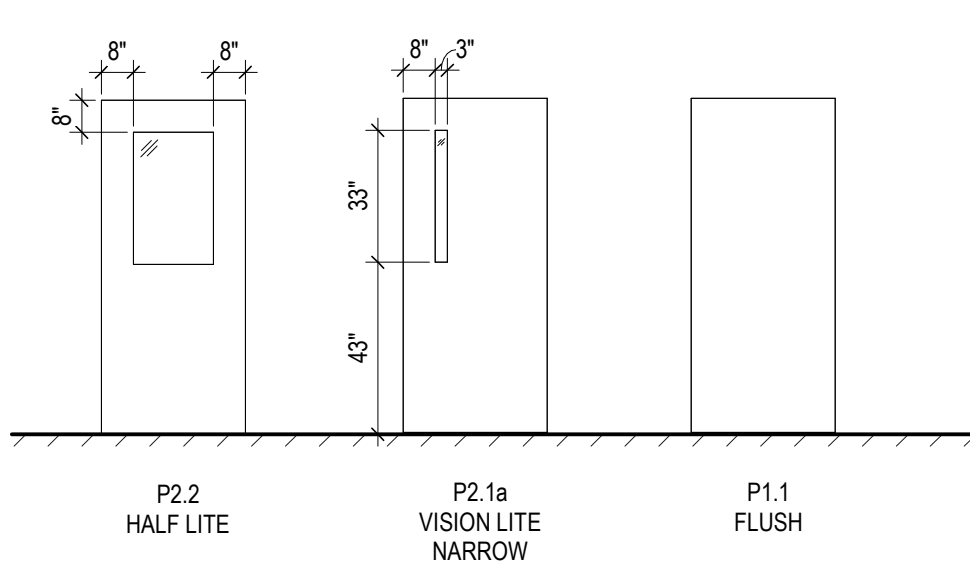
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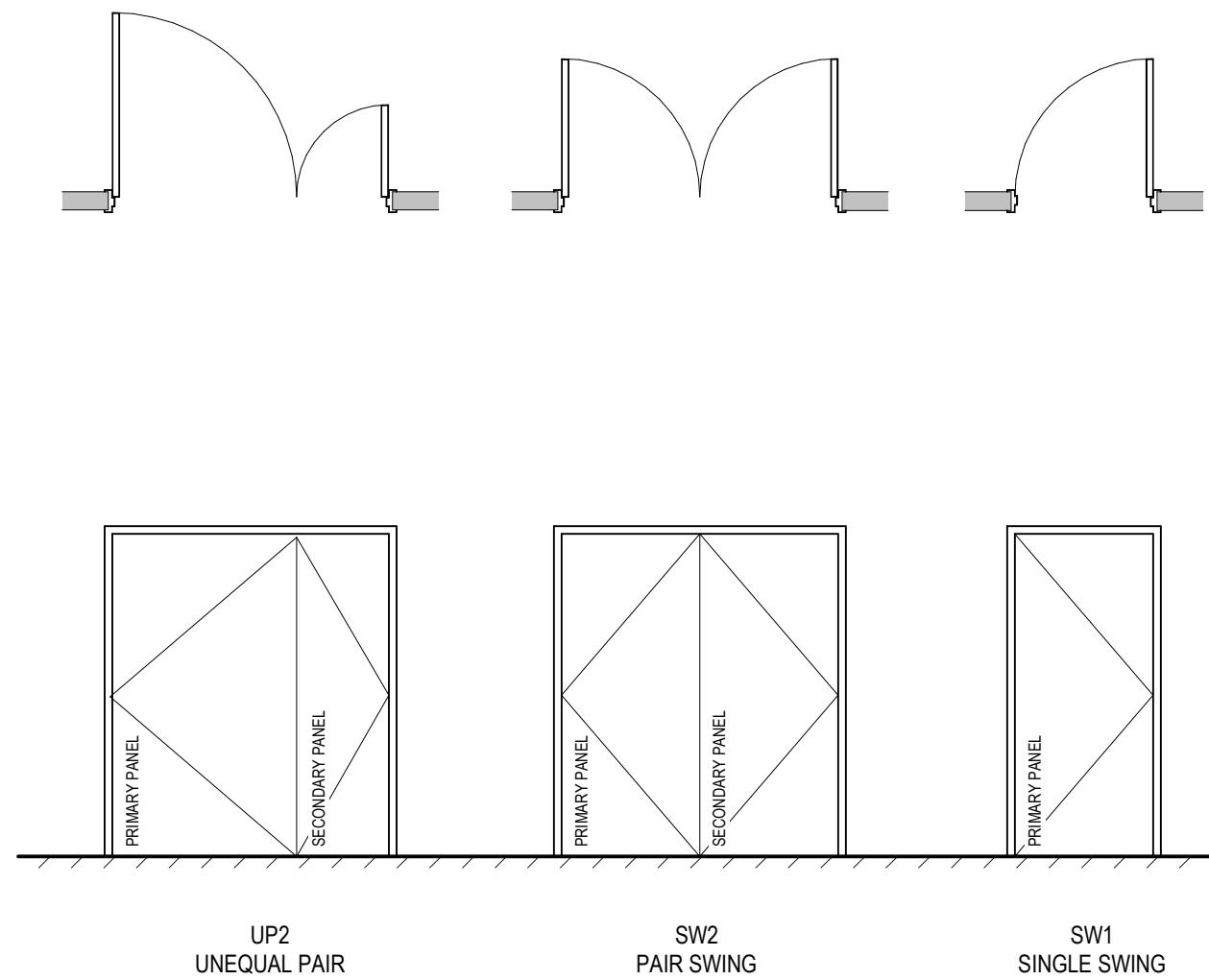
| OPENING SCHEDULE | | | | | | | | | | | | | | | | | | |
|------------------|-----------------|--------------------|---------|-------|--------|----------|---------|-----------|----------------------------|----------------------------|----------|-----------------------------|----------------|------------|------------|----------|--|--|
| OPENING NUMBER | ROOMS | | OPENING | | | | PANEL | | | | FRAME | | | | GLASS TYPE | COMMENTS | | |
| | ROOM A | ROOM B | TYPE | WIDTH | HEIGHT | MATERIAL | WIDTH | | TYPE | | MATERIAL | TYPE | SIDELITE WIDTH | | | | DETAIL SET | |
| | | | | | | | PRIMARY | SECONDARY | PRIMARY | SECONDARY | | | HINGE SIDE | LATCH SIDE | | | | |
| 103E | GRAD OFFICE | OFFICE | SW1 | 3'-0" | 7'-0" | WD | 3'-0" | 0" | P2.1a : VISION LITE NARROW | -- | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | | |
| 105 | GRAD OFFICE | LAB SPACE | SW1 | 3'-6" | 7'-0" | WD | 3'-6" | 0" | P2.1a : VISION LITE NARROW | -- | HM | F3.1b : SIDELITE LATCH SIDE | 0" | 2'-0" | 4/A500 | G1 | | |
| 140-1 | LAB SPACE | CORRIDOR | SW1 | 3'-6" | 7'-0" | WD | 3'-6" | 0" | P2.1a : VISION LITE NARROW | -- | HM | F1.1 : STANDARD | 0" | 0" | 3/A500 | G1 | | |
| 140-2 | LAB SPACE | CORRIDOR | SW2 | 6'-0" | 7'-0" | WD | 3'-0" | 3'-0" | P2.1a : VISION LITE NARROW | P2.1a : VISION LITE NARROW | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | | |
| 140A | LAB SPACE | LAB SUPPLY/SUPPORT | SW1 | 3'-0" | 7'-0" | WD | 3'-0" | 0" | P2.1a : VISION LITE NARROW | -- | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | | |
| 150 | LAB SPACE | CONFERENCE ROOM | SW1 | 3'-0" | 7'-0" | WD | 3'-0" | 0" | P2.1a : VISION LITE NARROW | -- | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | | |
| 150A | CONFERENCE ROOM | OFFICE | SW1 | 3'-0" | 7'-0" | WD | 3'-0" | 0" | P2.1a : VISION LITE NARROW | -- | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | | |
| 150B | CONFERENCE ROOM | OFFICE | SW1 | 3'-0" | 7'-0" | WD | 3'-0" | 0" | P2.1a : VISION LITE NARROW | -- | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | | |
| 150C | CONFERENCE ROOM | OFFICE | SW1 | 3'-0" | 7'-0" | WD | 3'-0" | 0" | P2.1a : VISION LITE NARROW | -- | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | | |
| S20 | LASER LAB | VESTIBULE | SW2 | 6'-0" | 7'-0" | HM | 3'-0" | 3'-0" | P2.2 : HALF LITE | P2.2 : HALF LITE | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | CARD READER. MATCH EXISTING DOOR SLAB DESIGN | |
| S20A | CORRIDOR | VESTIBULE | SW2 | 6'-0" | 7'-0" | HM | 3'-0" | 3'-0" | P2.2 : HALF LITE | P2.2 : HALF LITE | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | | |
| S20B | CORRIDOR | MECHANICAL | SW1 | 3'-6" | 7'-0" | HM | 3'-6" | 0" | P1.1 : FLUSH | -- | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | -- | MATCH EXISTING DOOR SLAB DESIGN | |
| S20C | LAB SPACE | CORRIDOR | SW2 | 9'-0" | 7'-0" | HM | 2'-6" | 2'-6" | P2.2 : HALF LITE | P2.2 : HALF LITE | HM | F1.1 : STANDARD | 0" | 0" | 4/A500 | G1 | CARD READER. MATCH EXISTING DOOR SLAB DESIGN. ALTERNATE #1 | |



○ FRAME TYPES
1/4" = 1'-0"



○ PANEL TYPES
1/4" = 1'-0"



○ OPENING TYPE
1/4" = 1'-0"

| OPENING LEGEND | |
|---|--|
| GENERAL OPENING NOTES | |
| 1. REFER TO SPECIFICATION SECTION 087100 FOR DOOR HARDWARE INFORMATION | |
| OPENING SCHEDULE NOTES | |
| A. PANEL MATERIAL: | HM = HOLLOW METAL WD = WOOD AL = ALUMINUM FG = FIBERGLASS |
| B. FRAME MATERIAL: | HM = HOLLOW METAL SF = ALUMINUM STOREFRONT CW = ALUMINUM CURTAIN WALL AG = ALL GLASS SSF = SPECIALTY STOREFRONT FSF = FIRE-RATED STOREFRONT |
| C. HOLLOW METAL FRAMES TO BE 2" WIDE x 5 7/8" DEEP FRAMES, UNLESS NOTED OTHERWISE | |
| D. FRAME TYPES ARE SHOWN AS SEEN FROM THE PUBLIC APPROACH SIDE OF FRAME | |
| DOOR FRAME LOCATION | |
| | |

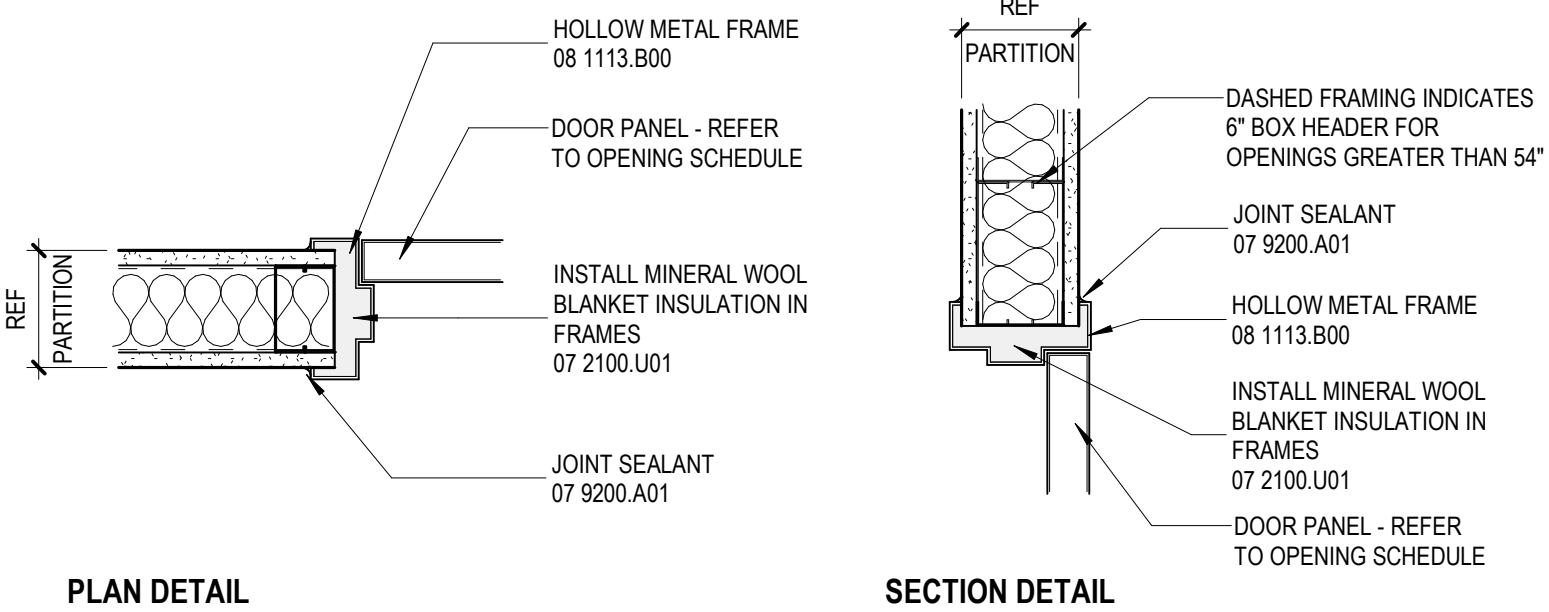
IUB RESEARCH LAB RENOVATIONS

BL072 CHEMISTRY
800 E KIRKWOOD AVE., BLOOMINGTON, IN 47405
BL027 SWAIN WEST
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BL070 SIMON HALL
212 S HAWTHORNE DR., BLOOMINGTON, IN 47405

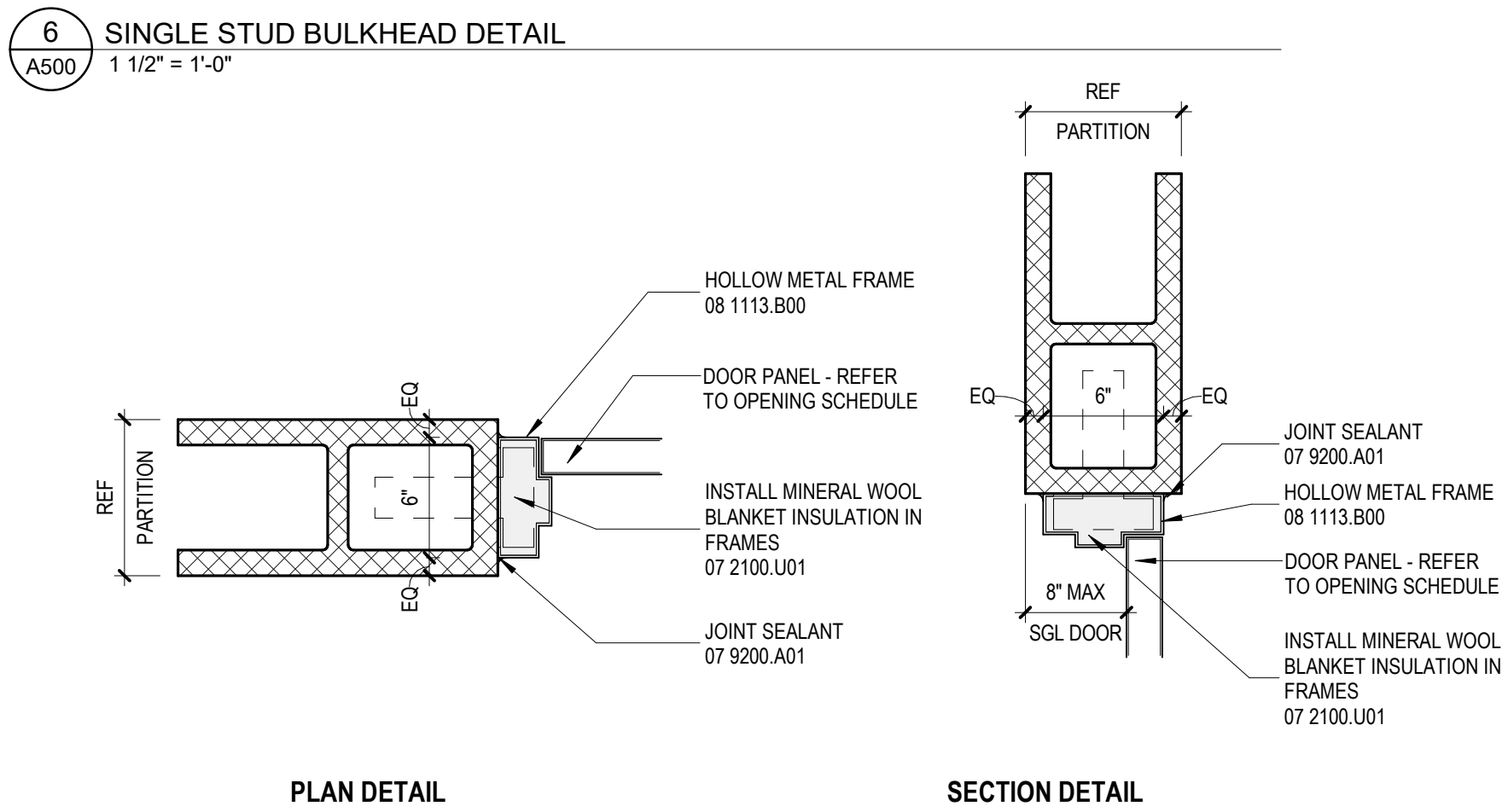
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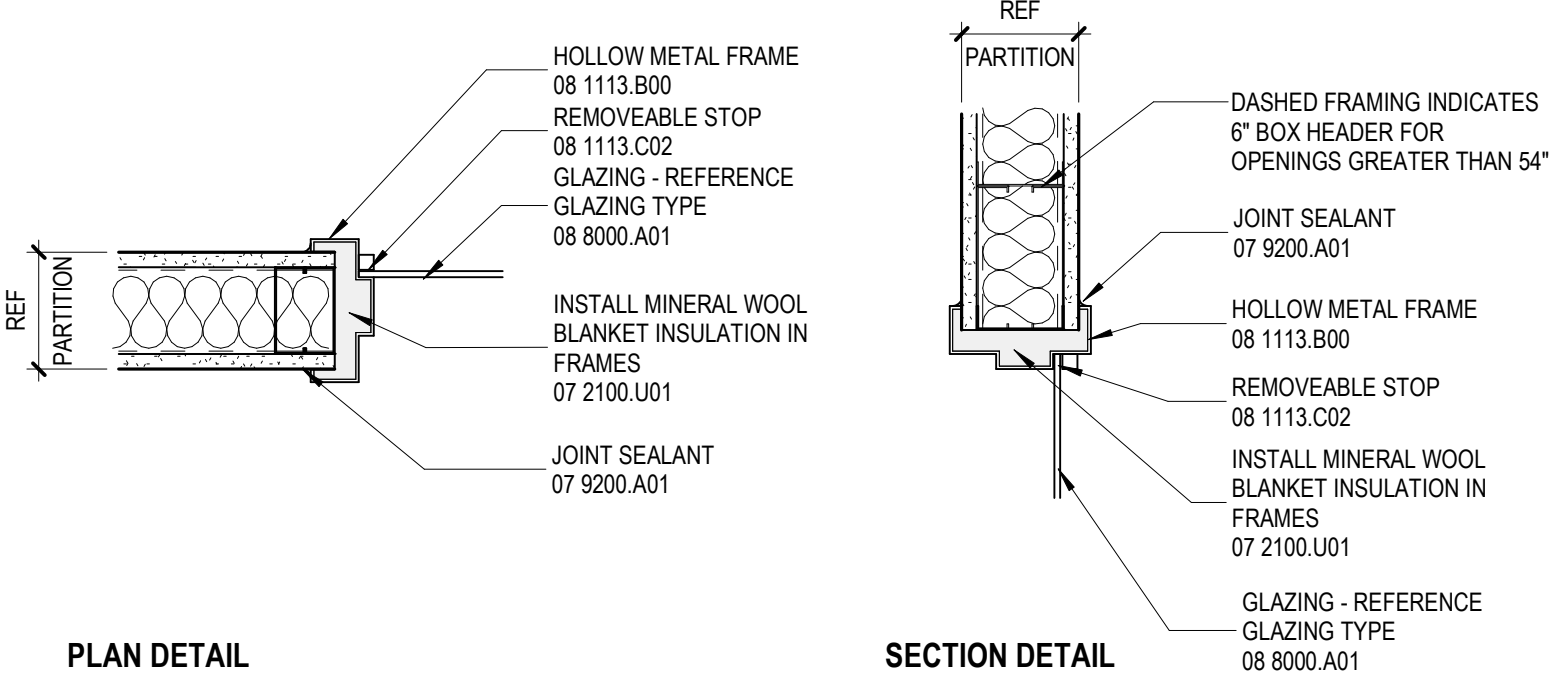
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| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |



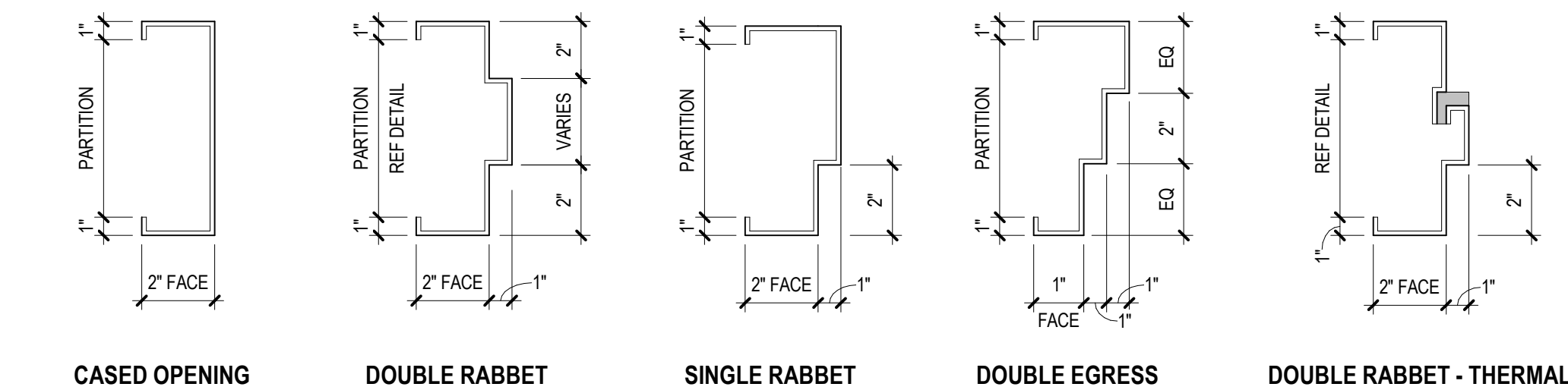
4 TYPICAL HM FRAME AT GYPSUM PARTITION DETAIL SET
A500 1 1/2" = 1'-0"



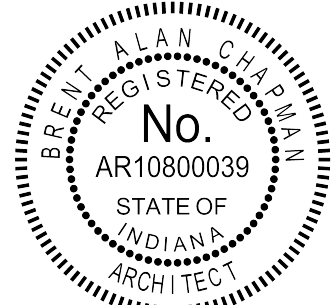
3 TYPICAL HM FRAME AT CMU PARTITION DETAIL SET
A500 1 1/2" = 1'-0"



2 BORROWED LITE HM FRAME AT GLAZED OPENING DETAIL SET
A500 1 1/2" = 1'-0"



1 HOLLOW METAL FRAME TYPES
A500 3" = 1'-0"



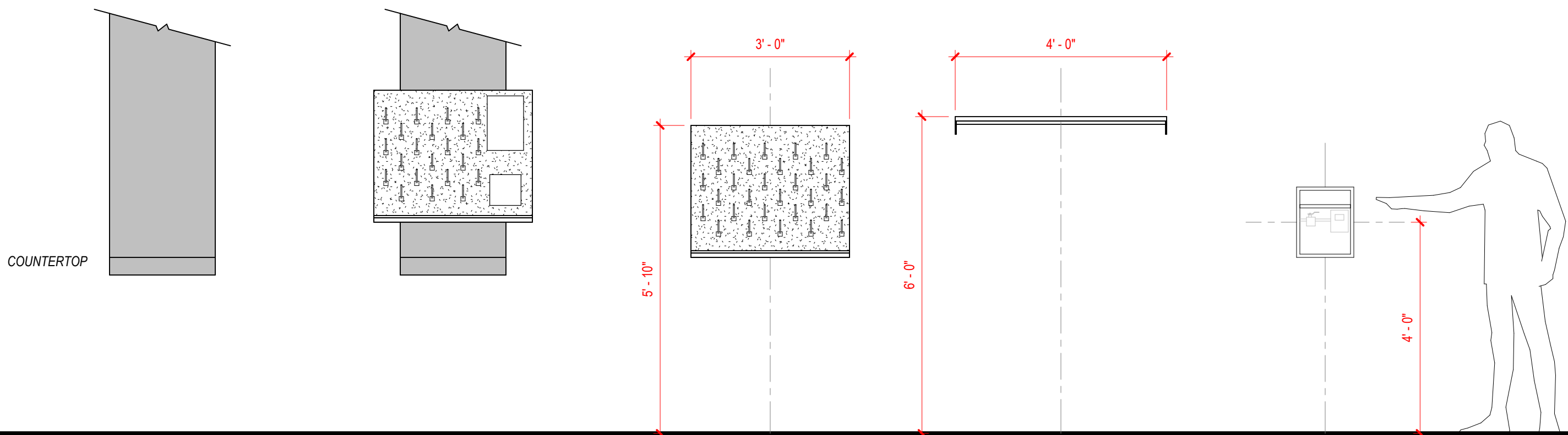
OPENING SCHEDULES,
OPENING DETAILS &
ELEVATIONS

DATE
BSALS PROJECT NO. 00360477

A500

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UTL.DRP.
24" W LAB UTILITY DROP
(EXTERIOR WALLS, AND ISLANDS)
MATCH LAB CASEWORK COLOR

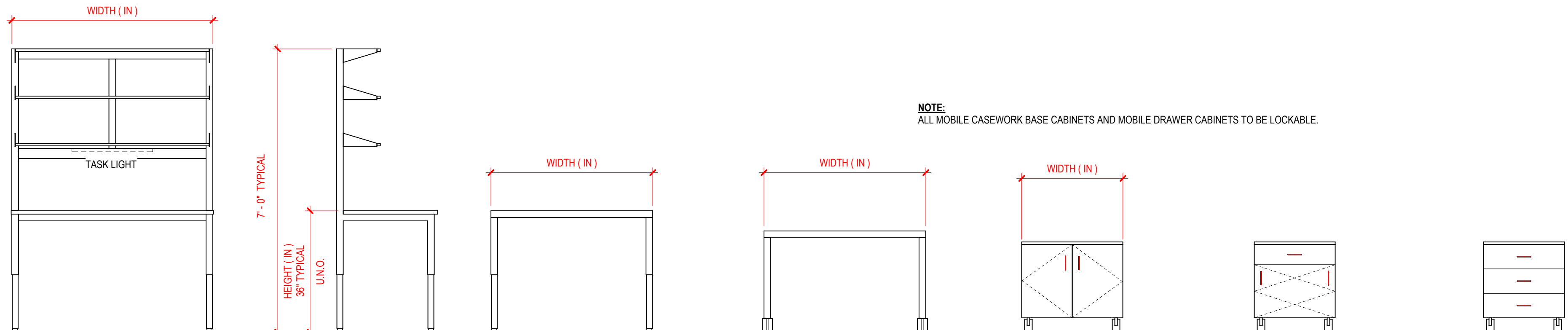
PIPE.DRP.
LAB UTILITY DROP WITH
DRYING RACK
(EXTERIOR WALLS)
MATCH LAB CASEWORK COLOR

xxxx.DRY.R
36"x30" DRYING RACK

xxxx.ST.SH
STAINLESS STEEL
SHELF 48"X10"

GEC
GAS EMERGENCY CABINET
(SHUT OFF VALVE)
AT +48" A.F.F.

LAB ACCESSORIES



LMBA
LAB MOBILE BENCH
WITH ADJUSTABLE SHELVING
(3 TURRETS.)

LMTA
LAB MOBILE TABLE

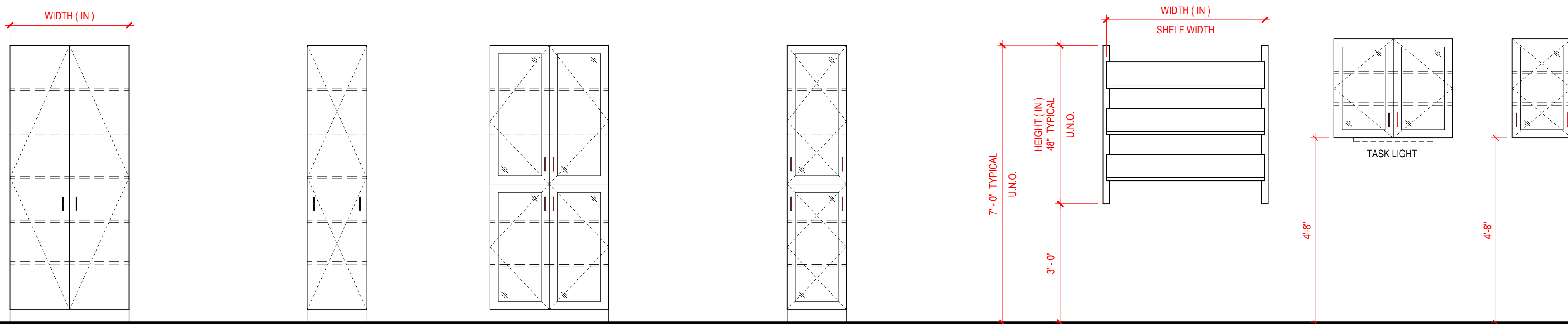
LMTB
LAB MOBILE TABLE
ON LOCKING CASTERS AT +30"

LMCA
MOBILE CASEWORK WITH
ANTI-TIP MECHANISM
DOUBLE DOOR

LMCBL or LMCBR
MOBILE CASEWORK WITH
ANTI-TIP MECHANISM
SINGLE DOOR SINGLE DRAWER

LMCC
MOBILE CASEWORK WITH
ANTI-TIP MECHANISM
3-DRAWER UNIT

LAB CASEWORK - MOBILE BENCHES AND TABLES



LTA
DBL DOOR -
TALL STORAGE CABINET
ADJUSTABLE SHELVES
PROVIDE LOCKS

LTAL or LTAR
SGL DOOR -
TALL STORAGE CABINET
ADJUSTABLE SHELVES
PROVIDE LOCKS

LTE
DBL DOOR WITH GLASS - SPLIT
TALL STORAGE CABINET
ADJUSTABLE SHELVES
PROVIDE LOCKS

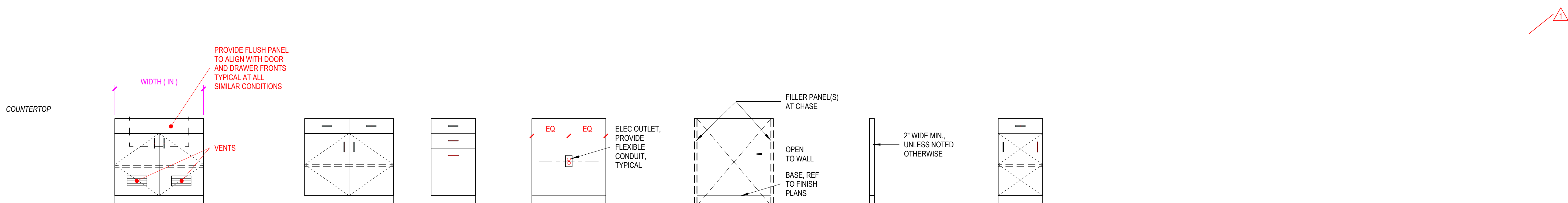
LTLEL or LTER
SGL DOOR WITH GLASS - SPLIT
TALL STORAGE CABINET
ADJUSTABLE SHELVES
PROVIDE LOCKS

LWSA

LWB
DOUBLE DOOR
WALL CABINET
WITH GLASS DOORS
PROVIDE LOCKS

LWBL or LWBR
DOUBLE DOOR
WALL CABINET
PROVIDE LOCKS

LAB CASEWORK - FULL HEIGHT CABINETS



LBSS
DBL DOOR SINK - VENTED
BASE CABINET
PROVIDE LOCKS

LBFB
DBL DOOR - DBL DRAWER
BASE CABINET
ADJUSTABLE HT SHELF
PROVIDE LOCKS

LBH
(3) DRAWER UNIT
BASE CABINET
PROVIDE LOCKS

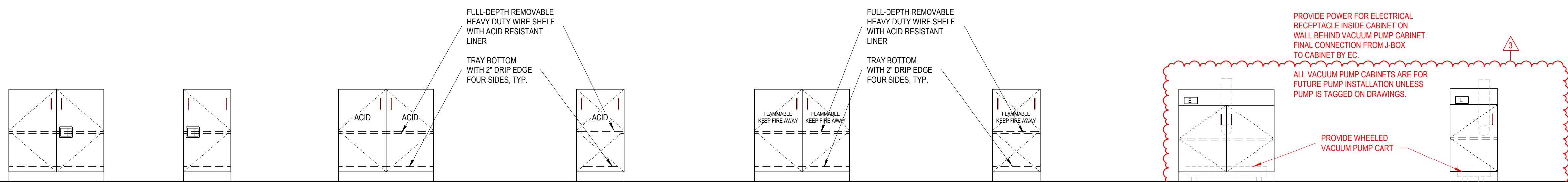
LBKS
KNEE SPACE
REMOVABLE PANEL

LBOS
OPEN SPACE
NO PANEL

LBEP
FINISHED END PANEL

LBEL or LBER
SGL DOOR - SGL DRAWER
LEFT / RIGHT
BASE CABINET
ADJUSTABLE HT SHELF
PROVIDE LOCKS

LAB CASEWORK - BASE CABINETS - TYPICAL



LBSS
DBL DOOR VENTED
SOLVENT STORAGE
CABINET BELOW FUME
HOOD. PROVIDE LOCKS

LBSSL/LBSSR
DBL DOOR VENTED
SOLVENT STORAGE
CABINET BELOW FUME
HOOD. PROVIDE LOCKS

LBAC
DBL DOOR VENTED
ACID STORAGE CABINET
BELOW FUME HOOD
PROVIDE LOCKS

LBACL or LBACR
SGL DOOR VENTED
ACID STORAGE CABINET
BELOW FUME HOOD
PROVIDE LOCKS

LBFL
DBL DOOR
FLAMMABLE STORAGE CABINET
BELOW FUME HOOD
PROVIDE LOCKS

LBFL or LBFLR
SGL DOOR
FLAMMABLE STORAGE CABINET
BELOW FUME HOOD
PROVIDE LOCKS

LBVC
DOUBLE DOOR
VACUUM PUMP CABINET
BELOW FUME HOOD
PROVIDE LOCKS

LBVCL or LBVCR
SINGLE DOOR
VACUUM PUMP CABINET
BELOW FUME HOOD
PROVIDE LOCKS

**GENERAL NOTES:
LAB FURNISHING (LF)**

- ALL WALL BENCHTOPS AND MOVABLE TABLES SHALL BE 30" DEEP INCLUDING WALL BENCH BACK SPLASH (UNLESS OTHERWISE NOTED).
- ALL ISLAND BENCHTOPS SHALL BE 60" DEEP (UNLESS OTHERWISE NOTED).
- ALL BENCHES AND TABLES SHALL BE 36" HIGH (UNLESS OTHERWISE NOTED).
- ALL BENCHTABLE TOPS TO BE 3/4" LAB GRADE SOLID PHENOLIC (UNLESS OTHERWISE NOTED).
- ALL BACK AND SIDE SPLASHES TO BE BE 3/4" THICK AND 4" HIGH. PIPEDROP CURBS TO BE 3/4" THICK AND 5" HIGH (UNLESS OTHERWISE NOTED).
- PROVIDE SIDESPLASHES AT ALL BENCHTOPS AGAINST FUME HOODS AND/OR ADJACENT WALLS.
- OVERALL LENGTH OF BENCHTOPS SHALL BE DETERMINED BY CASEWORK SIZES AND DIMENSIONS AS INDICATED ON PLANS. TOPS SHALL OVERHANG 1/2" AT EACH END AND 1" FROM FRONT OF BASE CABINETS AND TABLES. WHEN OVERALL DIMENSIONS ARE GIVEN, 1/2" OVERHANG IS NOT INCLUDED.
- ALL CASEWORK, FUME HOODS AND ANY OTHER FURNISHINGS WITH EXPOSED TO VIEW BACKS AND SIDES SHALL BE FINISHED.
- INSTALL CLOSURE PANELS BETWEEN BACK OF CABINETS OR HOODS AND WALLS AT EXPOSED ENDS AND BETWEEN BASE CABINETS AND/OR HOODS THAT ARE SET BACK TO BACK.
- ALL PENETRATIONS THROUGH BENCHTOP SHALL BE SEALED WITH SEALANT.
- BACKS OF COUNTERTOPS AND SPLASHES AGAINST WALLS SHALL BE SEALED TO THE WALL WITH SEALANT.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATIONS.
- COLORS FOR ALL COMPONENTS OF THE PROJECT INDICATED ON THESE DRAWINGS ARE AS INDICATED IN THE SPECIFICATIONS.
- FREE STANDING SHELVING AND CASEWORK LESS THAN 18" DEEP SHALL BE SECURED TO PREVENT TIPPING. SUBMIT SHOP DRAWINGS OF ATTACHMENT PRIOR TO INSTALLATION.
- SAFETY SHOWER / EYEWASH UNITS SHALL COMPLY WITH ANSI STANDARDS FOR LIABILITY BY THE PHYSICALLY DISABLED. SAFETY SHOWER / EYEWASH UNITS SHALL BE FURNISHED UNDER SECTION 123000 FOR INSTALLATION UNDER DIVISION 22.
- FOR LABORATORY SERVICE FITTING TYPES, LOCATIONS AND ORDER, SEE LABORATORY FURNISHING PLANS. THESE FITTINGS SHALL BE PROVIDED UNDER SECTION 123000 FOR INSTALLATION UNDER DIVISION 22.
- WHERE NO FUME HOOD OCCURS ADJACENT TO CORROSIVE STORAGE CABINETS, ROUTE VENT PIPE (IN PIPE CHASE) TO FURNEST PIPE DROP ENCLOSURE TO EXHAUST DUCT SYSTEM FOR CONNECTION UNDER DIVISION 23.
- WHERE FUME HOOD OCCURS ADJACENT TO CORROSIVE STORAGE CABINETS, ROUTE VENT PIPE (IN PIPE CHASE) TO FUME HOOD AND EXTEND 4" ABOVE FUME HOOD WORK SURFACE BEHIND BAFFLE.
- ALL SNORKEL EXHAUST SHOWN ON THESE DRAWINGS, INCLUDING FLEXIBLE DUCT HOSE, SHALL BE PROVIDED UNDER SECTION 123000. DIVISION 23 SHALL MAKE FINAL CONNECTION TO SNORKEL.
- INSTALLATION OF EQUIPMENT, SUPPORTS OR ANY OTHER ITEMS THAT MAY INTERFERE WITH LIGHTING, STRUCTURAL OR MECHANICAL SYSTEMS, SHALL BE CAREFULLY COORDINATED. NOTIFY OWNERS REPRESENTATIVE OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
- UNLESS OTHERWISE NOTED, ALL MISCELLANEOUS CHANNELS, BRACKETS AND FITTINGS INDICATED ON ALL LABORATORY FURNISHING DRAWINGS SHALL BE SUPPLIED, INSTALLED, AND PAINTED UNDER SECTION 123000.
- CONTRACTOR SHALL EXAMINE ALL LABORATORY FURNISHING PLANS AND COORDINATE WITH RELEVANT CEILING PLANS FOR PROPER VERTICAL SERVICE COLUMN & PIPE DROP ENCLOSURE HEIGHTS.
- HEAVY DUTY UNSTRUT AND OTHER STRUCTURALLY ANCHORED AND SUSPENDED DEVICES REQUIRE COORDINATION WITH OTHER TRADES SHALL BE THE RESPONSIBILITY OF SECTION 123553 (UNLESS OTHERWISE NOTED). ADDITIONAL FRAMING MAY BE REQUIRED TO ACCOMMODATE ANCHORAGE AROUND DUCTWORK OR OTHER OBSTRUCTIONS.
- ALL MARKER BOARDS, COAT RACKS, AND FIRE EXTINGUISHERS ARE INDICATED ON THE "LF" DRAWINGS FOR COORDINATION ONLY.
- SERVICE FITTING SHOWN ON THE "LF" PLAN DRAWINGS ARE FOR LOCATION ONLY. REFER TO DETAILS AND SPECIFICATIONS FOR ACTUAL FITTINGS.
- ELECTRICAL DEVICES SHALL BE PROVIDED UNDER DIVISION 26. ELECTRICAL DEVICES SHOWN ON THE "LF" DRAWINGS ARE FOR THE LOCATION OF CASEWORK CUTOUTS. DEVICES SHOWN AT CONSTANT TEMPERATURE ROOMS, FUME HOODS, VERTICAL SERVICE COLUMNS, VACUUM PUMP CABINETS, ACID CABINETS AND FLEXIBLE LABORATORY FURNITURE SYSTEM SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER.
- ALL WALL MOUNTED RACKS SHALL BE MOUNTED (40" A.F.F.) TO THE BOTTOM OF THE RACEWAY (UNLESS OTHERWISE NOTED).
- ALL CASEWORK, SINKS, SHELVING, AND SUPPORTS INSIDE CONSTANT TEMPERATURE ROOMS SHALL BE STAINLESS STEEL CONSTRUCTION (UNLESS OTHERWISE NOTED).
- FOR CSP - CEILING SERVICE PANELS, CONTRACTOR SHALL REVIEW ALL REFLECTED CEILING PLANS.

TYPICAL LAB ABBREVIATIONS

| | |
|-----------|---|
| ADA | AMERICAN DISABILITIES ACT |
| APP | ABOVE FINISHED FLOOR |
| ARCH | ARCHITECTURAL DOCUMENTS |
| BSC | BIO SAFETY CABINET |
| CPCI | CONTRACTOR FURNISHED / CONTRACTOR INSTALLED |
| CFM | CUBIC FEET PER MINUTE |
| CLNG | CEILING |
| CLR | CLEAR OR CLEARANCE |
| CR-TCP | COLD ROOM - TEMPERATURE CONTROL PANEL |
| DIA | DIAMETER |
| DIV | DIVISION |
| EM | EMERGENCY POWER OUTLET |
| EQUIP | EQUIPMENT |
| EP | ELECTRICAL PANEL |
| FEB | FIRE EXTINGUISHER ON BRACKET |
| FEC | FIRE EXTINGUISHER CABINET |
| FH | FUME HOOD |
| FHCP | FUME HOOD CLOSER PANEL |
| FHFP | FUME HOOD FILLER PANEL |
| FP | FILLER PANEL |
| GA | GAUGE |
| GC | GENERAL CONTRACTOR |
| HD | HEAVY DUTY |
| HRV | HOSE REEL VALVE CABINET |
| HWCV | HOT WATER - COLD WATER |
| KS | KNEE SPACE |
| L EXH # | EQUIPMENT EXHAUST (DIAMETER) |
| L HK# | LAB COAT HOOKS (COUNT) |
| L DRK # | LAB DRYING RACK (DIMENSIONS) |
| L SK # | LAB SINK (P) |
| L SNKL | LAB SNORKEL |
| L SSS # | LAB STAINLESS STEEL SHELF (DIMENSIONS) |
| L UTD # | LAB UTILITY DROP (DIMENSIONS) |
| LB | LAB BENCH |
| LT | LAB TABLE |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| MMB | MARKERBOARD |
| MTD | MOUNTED |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OFCI | OWNER FURNISHED / OWNER INSTALLED |
| OFCL | OWNER FURNISHED / CONTRACTOR INSTALLED |
| OH | OPPOSITE HAND |
| O/H | OVERHEAD |
| PHEN (PH) | PHENOLIC |
| REF | REFRIGERATOR |
| S | LIGHT SWITCH |
| SIM | SIMILAR |
| SK | SINK |
| SPEC | SPECIFICATIONS |
| STS (SS) | STAINLESS STEEL |
| TEMP | TEMPERATURE |
| TYP | TYPICAL |
| UC | UNDER COUNTER |
| UNO | UNLESS NOTED OTHERWISE |

TYPICAL LAB SERVICE ABBREVIATIONS

| | |
|-------|---------------------------|
| CA | LABORATORY COMPRESSED AIR |
| CO2 | CARBON DIOXIDE |
| CW | POTABLE COLD WATER |
| EW | EYEWASH |
| HW | POTABLE HOT WATER |
| HWCV | HOT WATER - COLD WATER |
| LA | LABORATORY AIR (15 PSI) |
| LA100 | LABORATORY AIR (100 PSI) |
| N | NITROGEN |
| RO | REVERSE OSMOSIS |
| RSS | RECESSED SAFETY STATION |
| SPR | SPRAYER / PRE-RINSE UNIT |

BSA

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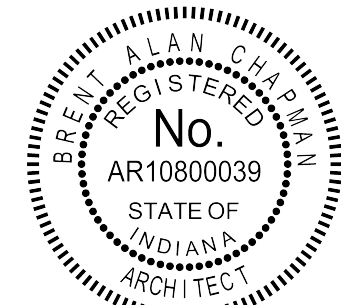
**IUB
RESEARCH
LAB
RENOVATIONS**

BL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
BL027 SWAIN WEST
729 E 3RD ST, BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

CLIENT PROJECT NO. - 20240397

**BIDDING SET
JANUARY 9, 2025**

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| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |

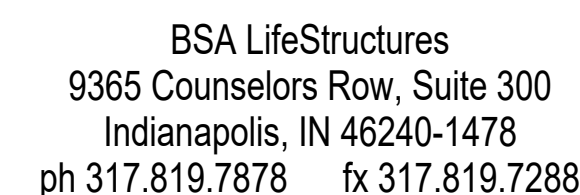


But 9. dm

LAB CASEWORK MENU

DATE
BSALS PROJECT NO. 00360477

LF001.Y



| | |
|-----|--|
| A13 | GENERIC EQUIPMENT FOR REFERENCE PURPOSE ONLY. OWNER FURNISHED AND INSTALLED. |
| A17 | ALIGN |
| A19 | CEILING SERVICE PANEL - 1. SEE LAB DETAILS LFD03.X |

| | | | |
|-----|---------------------------|---------|--|
| 061 | POWER CONDITIONER | O.F.O.I | |
| 062 | HELIUM RECOVERY MANIFOLD | C.F.C.I | |
| 063 | NANACALY UHP-C | O.F.O.I | |
| 064 | HEAT EXCHANGER | O.F.O.I | |
| 065 | FLAMMABLES CABINET | O.F.O.I | |
| 066 | AGILENT 6500 | O.F.O.I | |
| 067 | TIMSTOPF | O.F.O.I | |
| 068 | BRUKER HCT | O.F.O.I | |
| 069 | SCIX 6500 | O.F.O.I | |
| 020 | CONTROL CONSOLE | O.F.O.I | |
| 030 | MAGNET MONITOR | O.F.O.I | |
| 040 | CRYOREFRIGERATOR | O.F.O.I | |
| 050 | AGILENT 1290 | O.F.O.I | |
| 080 | 40 FZR | O.F.O.I | |
| 090 | 30 FZR | O.F.O.I | |
| 110 | FRIDGE FZR | O.F.O.I | |
| 329 | BRUKER SOLARIX SERIES | O.F.O.I | |
| 600 | LOCAL VACUUM NETWORK PUMP | C.F.C.I | |
| 900 | GENERIC EQUIPMENT | O.F.O.I | |
| 950 | MARKERBOARD 48X72 | O.F.O.I | |

| LAB FURNISHINGS SCHEDULE | | | | REMARK |
|--------------------------|-------------------|-----------------------|--|--------|
| NUMBER | NAME | DESCRIPTION | | |
| L 2.TNK | 2.TNK | GAS CYLINDER TANK | | |
| L C.HKS | (2) TRIPLE C.HKS. | COAT HOOKS | | |
| L DRY.R 3630 | 3630 DRY.R. | PEG BOARD DRYING RACK | | |
| L FEB | FEB | FIRE EXTINGUISHER | | |
| L FH T2 | FH T2 | FLUME HOOD FH T2 | | |
| L PTD | PTD | PAPER TOWEL DISPENSER | | |
| L SD | SD | SOAP DISPENSER | | |
| L SSS#810 | SSS#810 | STAINLESS STEEL SHELF | | |

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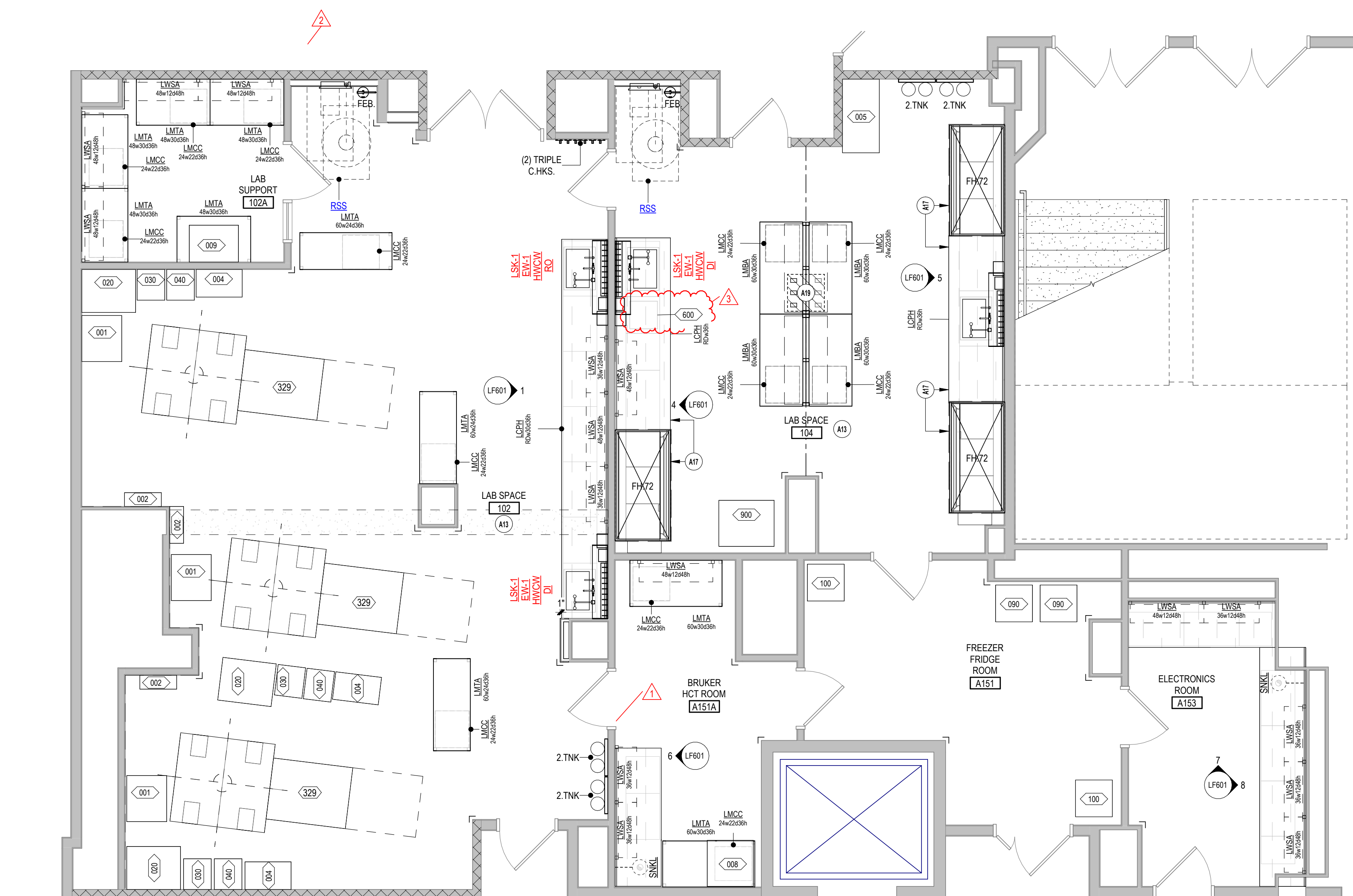


BL072 CHEMISTRY -
ENLARGED LAB
FURNISHING PLAN - LEVEL
1

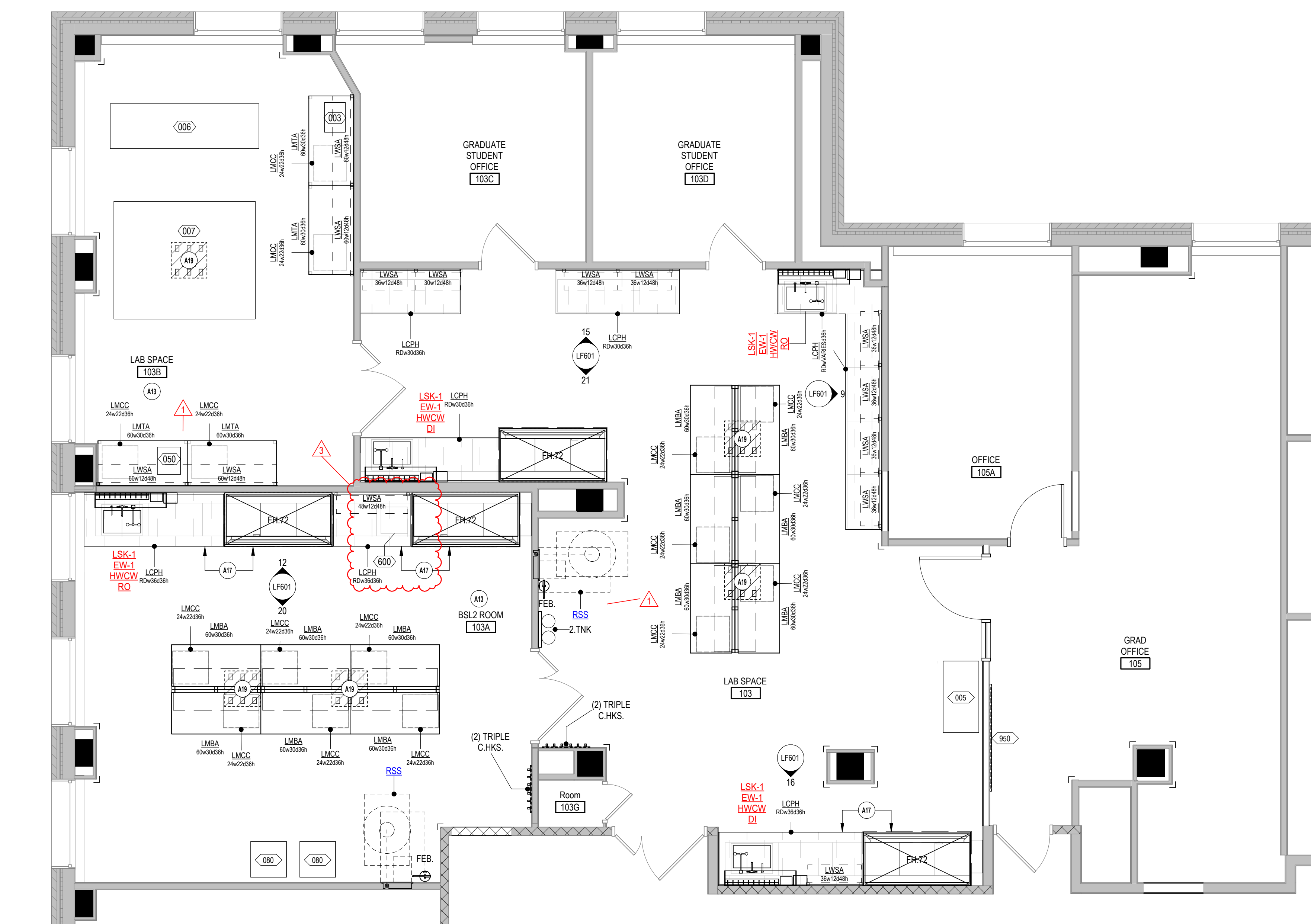
| | |
|------------------|--------|
| DATE | |
| BSA'S PROJECT NO | 003604 |

LF411A

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1 CHEMISTRY - LAB FURNISHING PLAN - FIRST FLOOR - 102/104/A15
E411A 1/4" = 1'-0"



2 CHEMISTRY - LAB FURNISHING PLAN - FIRST FLOOR - 103/105

| KEYNOTE SCHEDULE | |
|------------------|--|
| NUMBER | TEXT |
| A13 | GENERIC EQUIPMENT FOR REFERENCE PURPOSE ONLY. OWNER FURNISHED AND INSTALLED. |
| A17 | ALIGN |
| A19 | CEILING SERVICE PANEL - 1. SEE LAB DETAILS LFD03.X |
| A20 | CEILING SERVICE PANEL - 2. SEE LAB DETAILS LFD03.X |

| EQUIPMENT SCHEDULE | | | |
|--------------------|---------------------------|----------|----------|
| # | NAME | SCOPE | COMMENTS |
| 600 | MONITOR WALL MOUNTED PC | O.F.O.I. | |
| 600 | LOCAL VACUUM NETWORK PUMP | O.F.O.I. | |
| 600 | GENERIC EQUIPMENT | O.F.O.I. | |
| 600 | 30" x 32" x 16" | O.F.O.I. | |
| 600 | MARKERBOARD 48X72 | O.F.O.I. | |

| LAB FURNISHINGS SCHEDULE | | | |
|--------------------------|-------------------|-----------------------|---------|
| NUMBER | NAME | DESCRIPTION | REMARKS |
| L2.TNK | 2.TNK | GAS CYLINDER TANK | |
| L.C.HKS | (2) TRIPLE C.HKS. | COAT HOOKS | |
| L.DRY.R.3630 | 3630 DRY.R. | PEG BOARD DRYING RACK | |
| L.FEB. | FEB. | FIRE EXTINGUISHER | |
| L.FH.72 | FH.72 | FUME HOOD FH.72 | |
| L.PTD. | PTD. | PAPER TOWEL DISPENSER | |
| L.SD. | SD. | SOAP DISPENSER | |
| L.SS4810 | SS4810 | STAINLESS STEEL SHELF | |

IUB RESEARCH LAB RENOVATIONS

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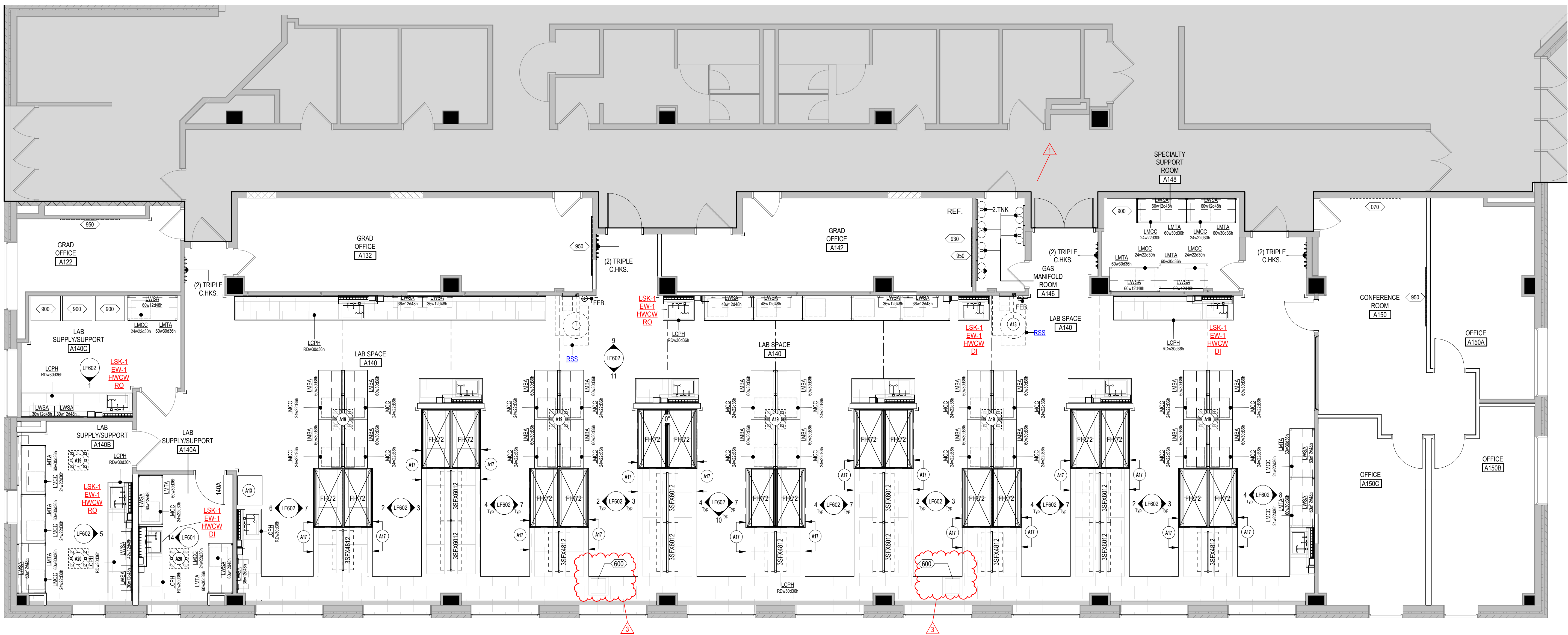
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BL072 CHEMISTRY -
ENLARGED LAB
FURNISHING PLAN - LEVEL
1

DATE
BSALS PROJECT NO. 00360477

LF411B

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1 CHEMISTRY - LAB FURNISHING PLAN - FIRST FLOOR - A140/A150
LF411B 3/16" = 1'-0"

| KEYNOTE SCHEDULE | |
|------------------|--|
| NUMBER | TEXT |
| A19 | CEILING SERVICE PANEL - 1. SEE LAB DETAILS LFD03.X |

| LAB FURNISHINGS SCHEDULE | | | |
|--------------------------|-------------------|-----------------------|---------|
| NUMBER | NAME | DESCRIPTION | REMARKS |
| L.2.NK | 2.TNK | Gas CYLINDER TANK | |
| C.HKS | (2) TRIPLE C.HKS. | COAT HOOKS | |
| L.DRY R 3630 | 3630.DRY R. | PEG BOARD DRYING RACK | |
| L.FEB | FEB. | FIRE EXTINGUISHER | |
| L.FH.72 | FH.72 | FUME HOOD FH.72 | |
| L.PTD | PTD | PAPER TOWEL DISPENSER | |
| L.SD | SD | SOAP DISPENSER | |
| L.SSS4810 | SSS4810 | STAINLESS STEEL SHELF | |

| EQUIPMENT SCHEDULE | | | |
|--------------------|---------------------------|---------|----------|
| # | NAME | SCOPE | COMMENTS |
| 600 | LOCAL VACUUM NETWORK PUMP | C.F.C.I | |



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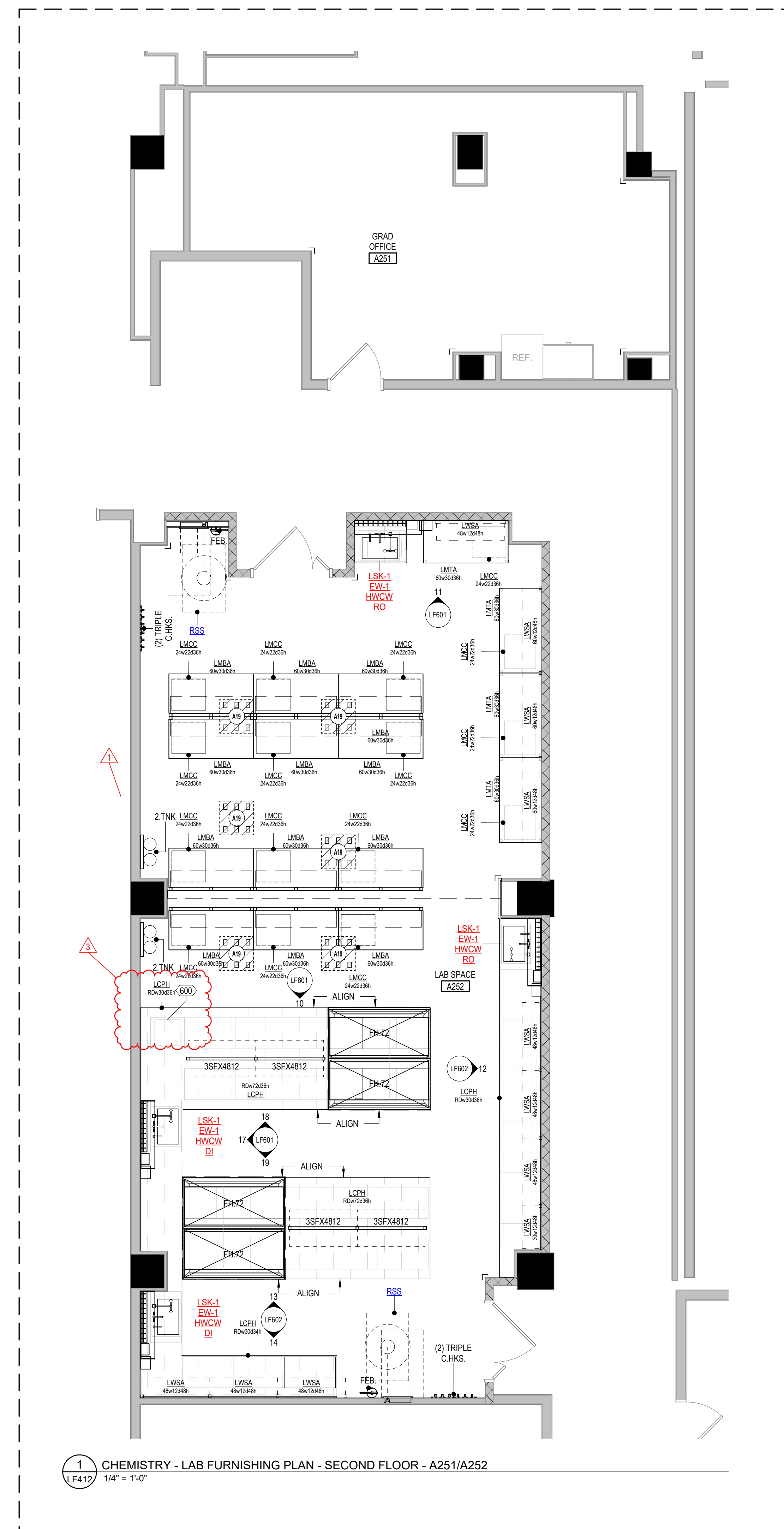
BL072 CHEMISTRY -
ENLARGED LAB
FURNISHING PLAN - LEVEL
2

| | |
|-------------------|--------|
| DATE | |
| BSALS PROJECT NO. | 003604 |

LF412

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ALTERNATE #4



1/29/2025 10:30:28 AM Autodesk Docs://00360477 - IUB Research Lab Renovations/00360477-CHEM ARCH BSALS v24.rvt

- A. REFER TO FLOOR PLANS AND THE EQUIPMENT SCHEDULE FOR EQUIPMENT. COORDINATE CONNECTIONS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- B. ALL DIMENSIONS ARE TAKEN TO THE FACE OF FINISHED MATERIAL, UNLESS NOTED OTHERWISE
- C. REFER TO PLUMBING DRAWINGS FOR LAVATORIES AND SINK TYPES.
- D. REFER TO ARCHITECTURAL AND/OR INTERIOR DRAWINGS FOR SOLID SURFACE SINK TYPES.

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CABINTRY.
- B. CONSTRUCT CURSOM BOARD BULKHEADS ABOVE UPPER CABINETRY TO BE "T" DEEPER AND LONGER THAN CABINERY BULKHEADS. UNLESS NOTED AT 24" DEEP.
- C. COORDINATE ALL WALL DEVICES TO AVOID CONFLICT WITH CASEWORK AND COUNTERTOPS.
- D. UNLESS SUPPORT BORDERS LOCATIONS WITH UNDER COUNTER EQUIPMENT INDICATED ELSEWHERE IN CONTRACT DOCUMENTS.
- E. ALL CASEWORK SHALL BE FINISHED IN PLASTIC LAMINATE, UNLESS NOTED OTHERWISE.
- F. PROVIDE 1" MINIMUM FILLER PANELS AT ALL LOCATIONS WHERE CABINETRY ADJUTS A WALL.
- G. PROVIDE A 4" HIGH INTEGRAL BACK SPLASH ON ALL COUNTERTOPS WITH RECESSED SINKS. INSTALL DISCRETE SPLASHES WHERE THESE COUNTERTOPS ADJUT A WALL.
- H. PROVIDE ADJUSTABLE SHELVING WITH ALL WALL AND BASE BORDERS AS SHOWN BY DASHED LINE.
- I. BOTTOM OF UPPER CABINETS TO BE FINISHED TO MATCH VERTICAL FACES.
- J. ALL BASE CABINETS SHALL BE 24" DEEP UNLESS NOTED OTHERWISE.
- K. PROVIDE 12" CLEAR INTERIOR DIMENSION ON ALL UPPER WALL CABINETS. UNLESS NOTED OTHERWISE.
- L. ALL DETACHABLE WORK PULLS TO BE TYPE ____ UNLESS NOTED OTHERWISE.

Diagram illustrating the structure of a CDS (Coded Data Stream) with a width of 36 bits:

- WIDTH**: 36 bits
- Pl 1**: 24 bits (CDS DESIGNATION)
- EXTRA SHELF**: 4 bits (DEPTH)
- HEIGHT**: 4 bits
- MODIFICATION DESCRIPTION**: 4 bits

CPT-11 ← MATERIAL TAG, REFERENCE FINISH SCHEDULES

BL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
BL027 SWAIN WEST
729 E 3RD ST, BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

CLIENT PROJECT NO. - 20240397

| | | | |
|-----|---------------------------|---------|--|
| 005 | FLAMMABLES CABINET | O.F.O.I | |
| 007 | TIMSTOFF | O.F.O.I | |
| 050 | AGILENT 1290 | O.F.O.I | |
| 080 | -80 FZR | O.F.O.I | |
| 329 | BRINER SOLARIX SERIES | O.F.O.I | |
| 600 | LOCAL VACUUM NETWORK PUMP | C.F.C.I | |
| 900 | GENERIC EQUIPMENT | O.F.O.I | |
| 950 | MARKERBOARD 48X72 | O.F.O.I | |

BIDDING SET
JANUARY 9, 2025

| MARK | DATE | DESCRIPTION |
|------|----------|-------------|
| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |

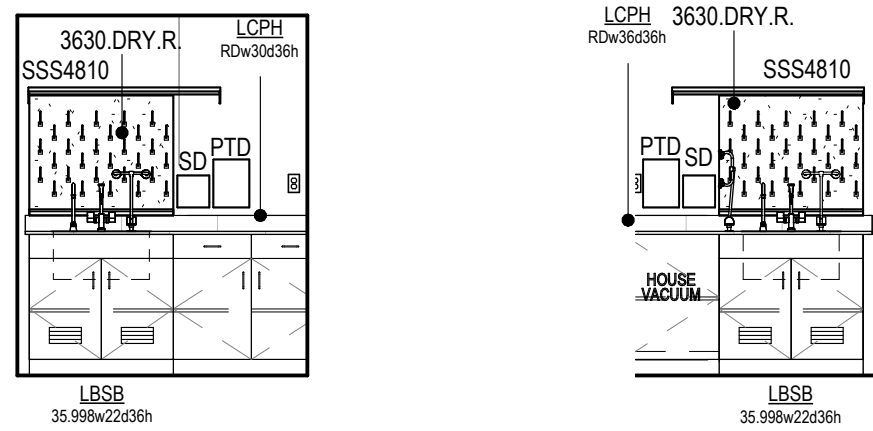
BL072 CHEMISTRY - LAB
INTERIOR ELEVATIONS

| | |
|-------------------|----------|
| DATE | |
| BSA'S PROJECT NO. | 00360473 |

© RSA LifeStructures, Inc.

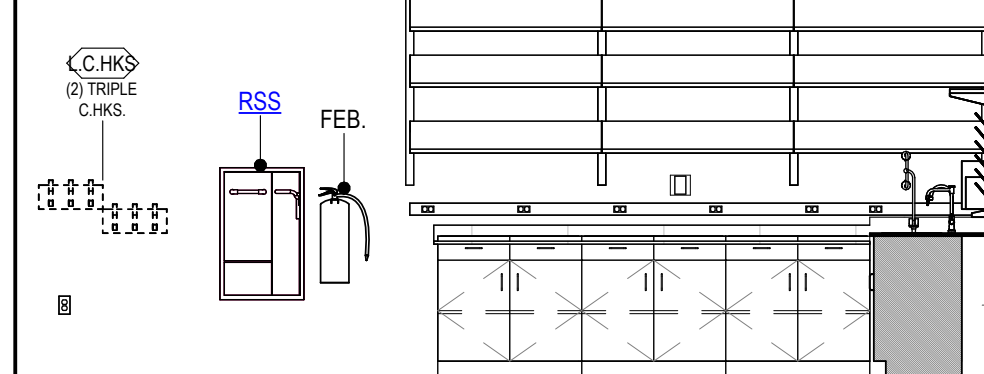


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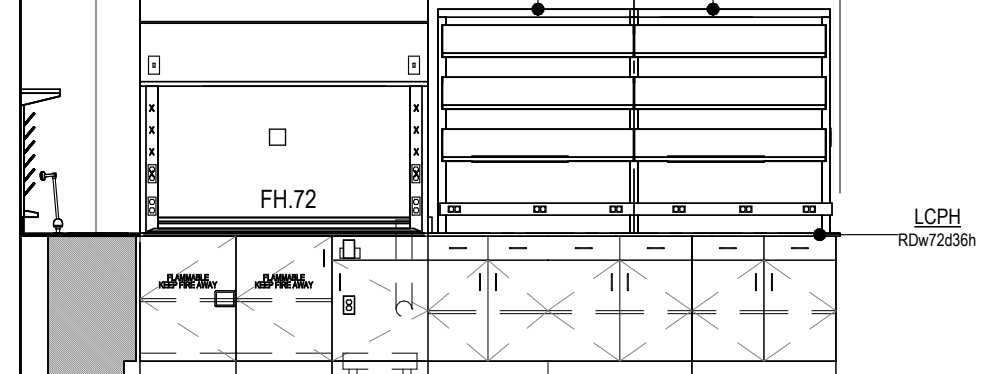


16 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"

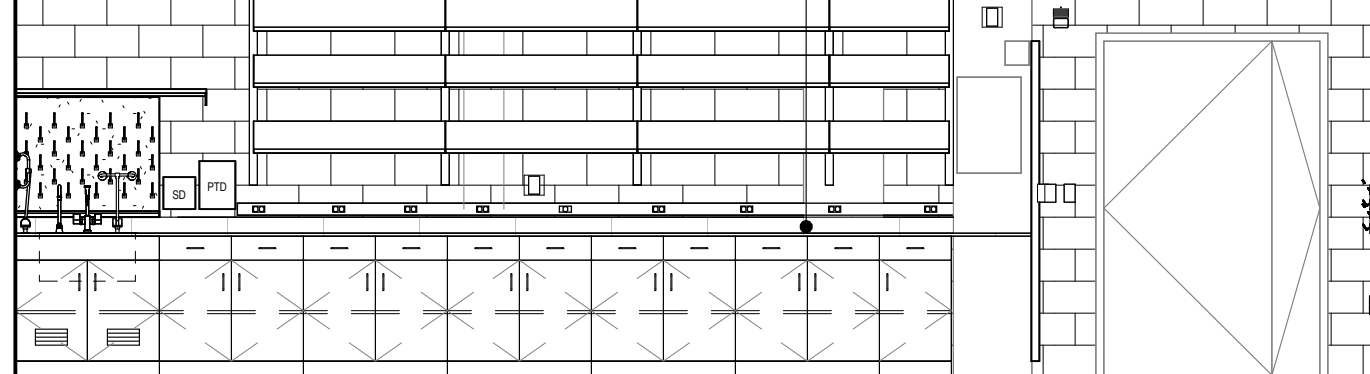
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1/4" = 1'-0"



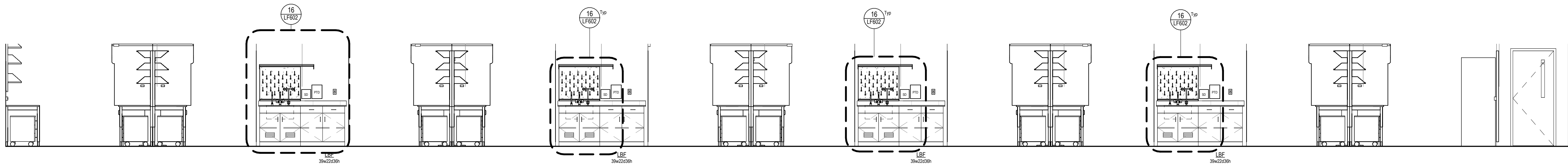
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1/4" = 1'-0"



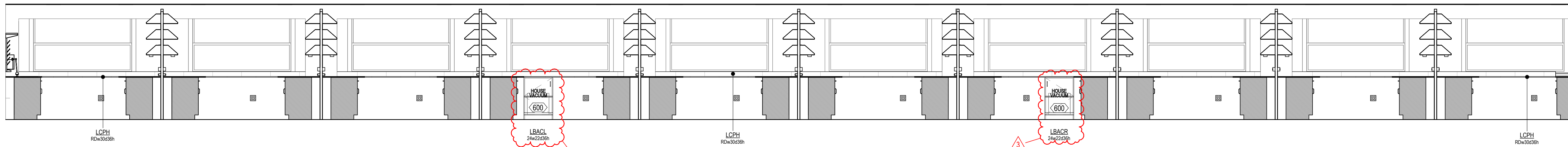
13 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



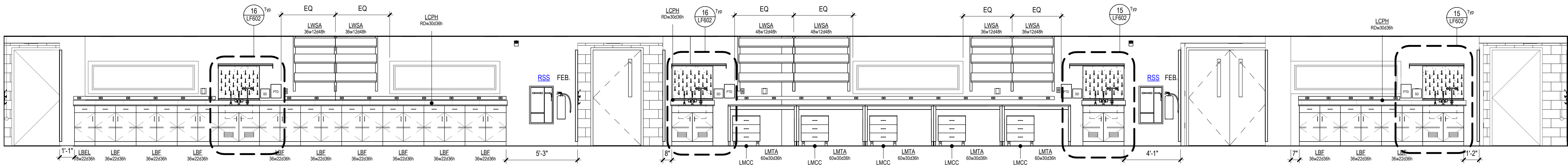
12 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



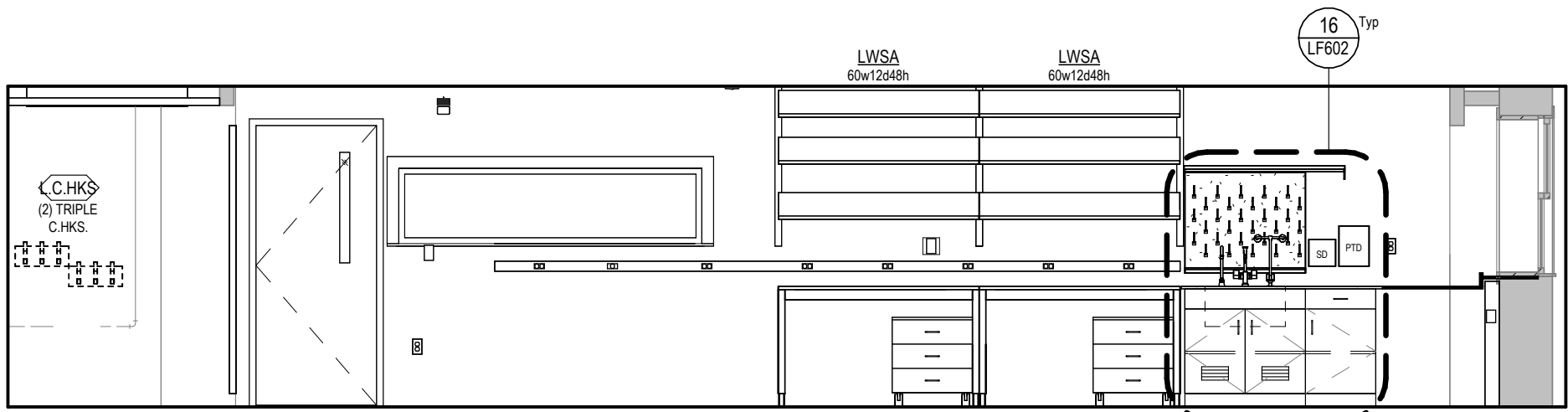
11 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



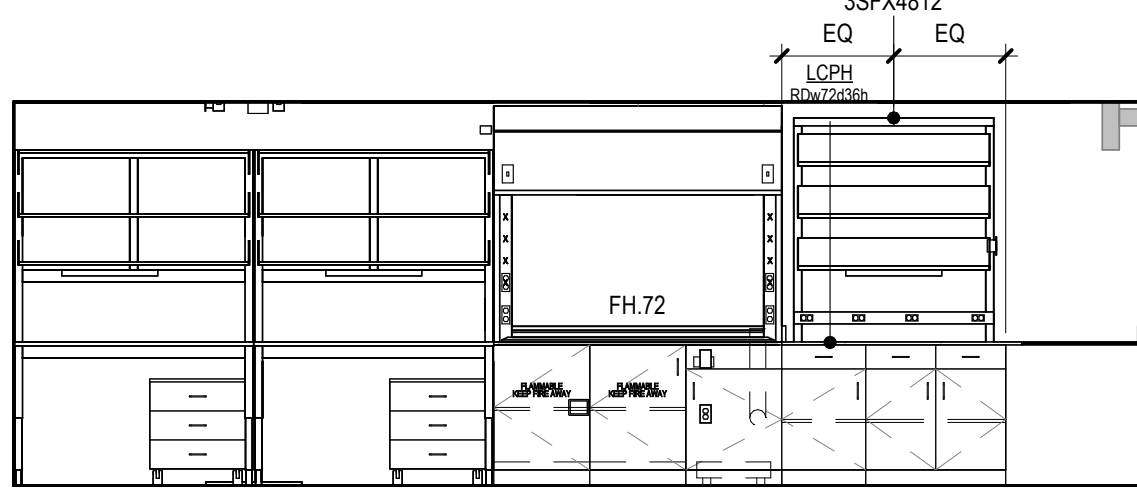
10 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



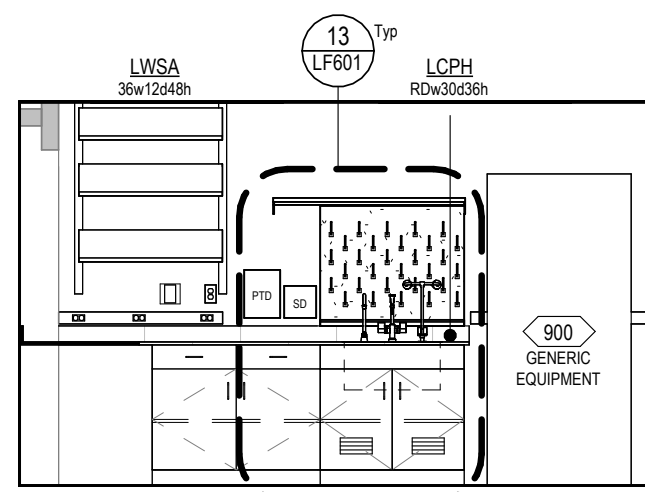
9 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



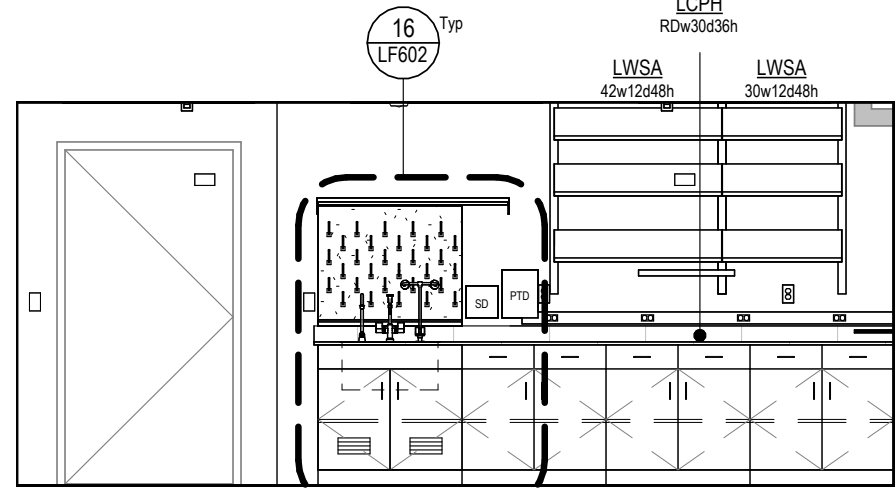
8 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



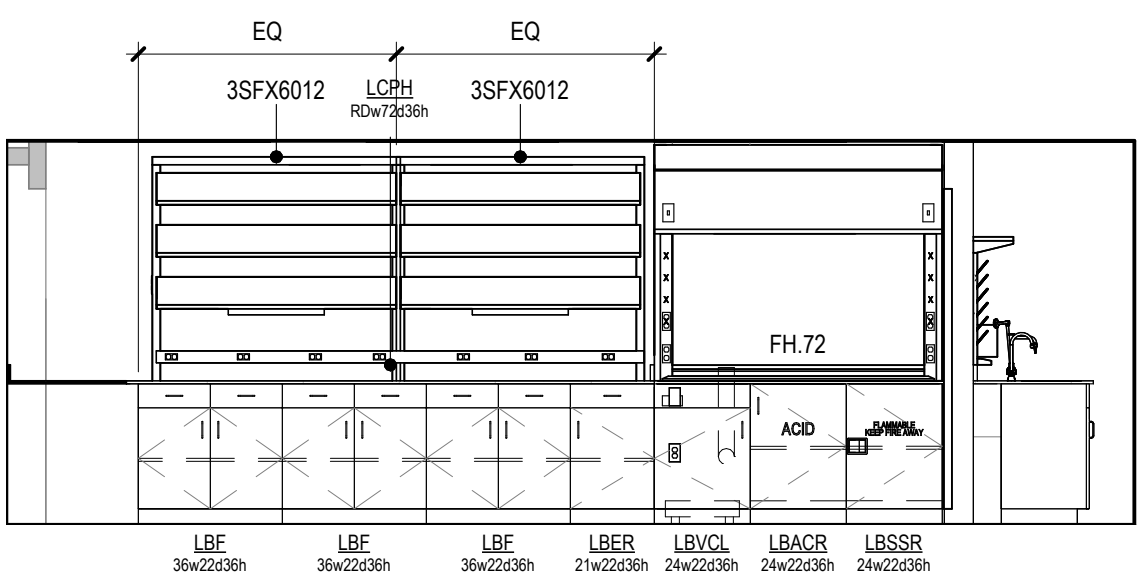
7 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



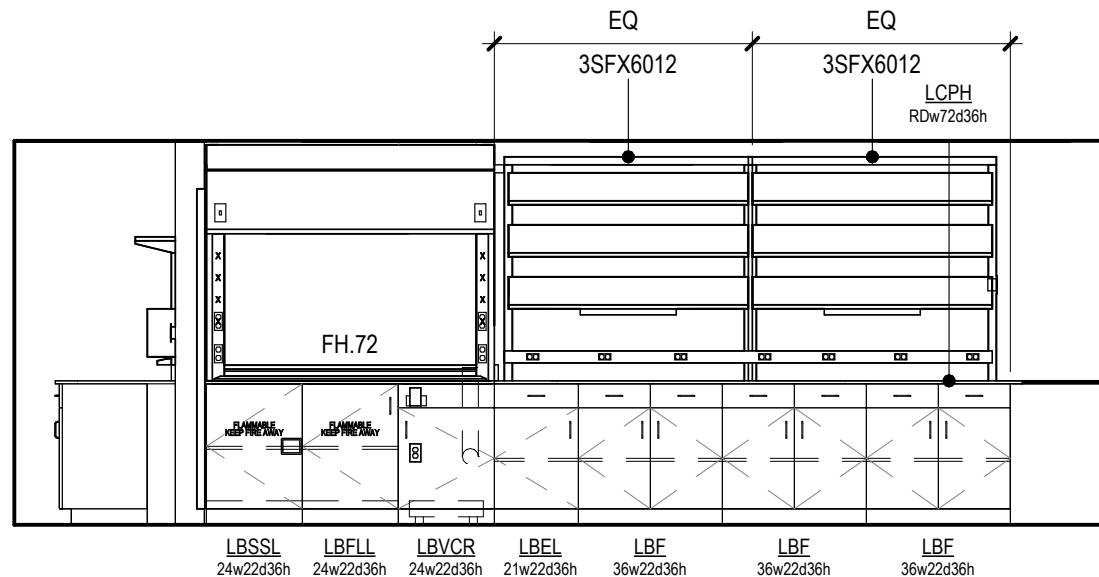
6 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



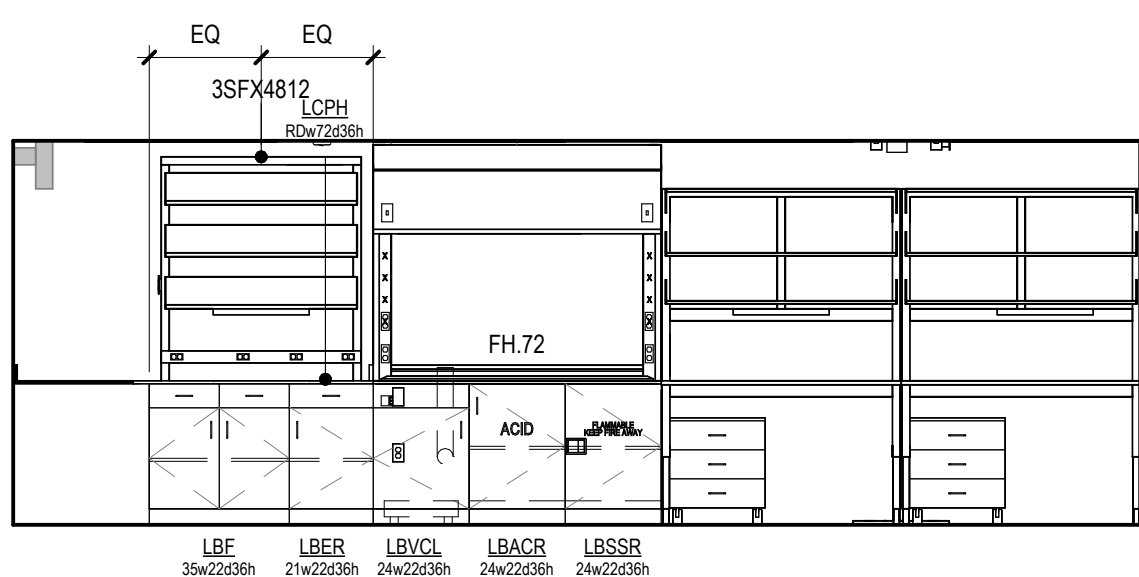
5 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



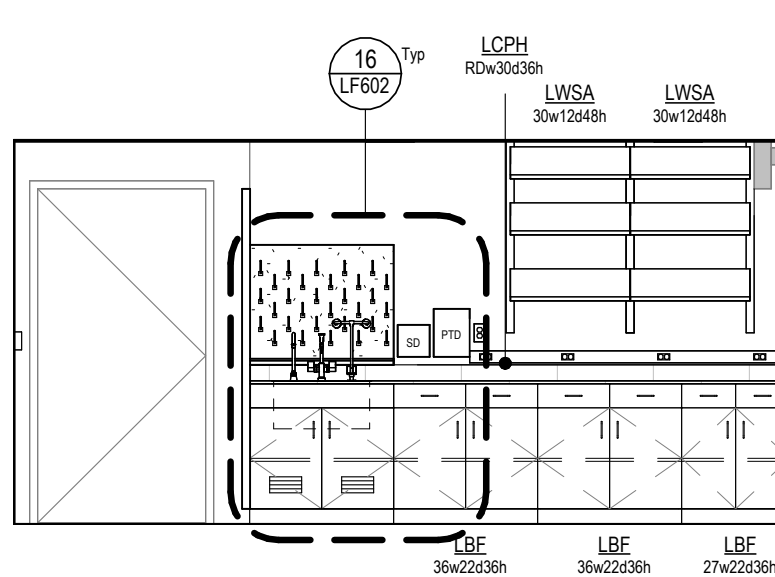
4 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



3 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



2 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"



1 LAB INTERIOR ELEVATIONS
1/4" = 1'-0"

INTERIOR ELEVATION LEGEND

INTERIOR ELEVATION NOTES

- A. REFER TO FLOOR PLANS AND THE EQUIPMENT SCHEDULE FOR EQUIPMENT. COORDINATE CONNECTIONS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- B. ALL DIMENSIONS ARE TAKEN TO THE FACE OF FINISHED MATERIAL, UNLESS NOTED OTHERWISE.
- C. REFER TO PLUMBING DRAWINGS FOR LAVATORIES AND SINK TYPES. REFER TO ARCHITECTURAL AND/OR INTERIOR DRAWINGS FOR SOLID SURFACE SINK TYPES.

CASEWORK NOTES

- A. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CABINETS.
- B. CONSTRUCT GYPSUM BOARD BULKHEADS ABOVE UPPER CABINETS TO BE 1" DEEPER AND LONGER THAN CABINETS BELOW, UNLESS NOTED OTHERWISE.
- C. COORDINATE ALL WALL DEVICES TO AVOID CONFLICT WITH CASEWORK AND COUNTERTOPS.
- D. COORDINATE SUPPORT BRACKET LOCATIONS WITH UNDER COUNTER EQUIPMENT INDICATED ELSEWHERE IN CONTRACT DOCUMENTS.
- E. ALL CASEWORK SHALL BE FINISHED IN PLASTIC LAMINATE, UNLESS NOTED OTHERWISE.
- F. PROVIDE 1" MINIMUM FILLER PANELS AT ALL LOCATIONS WHERE CABINETS ABUT A WALL.
- G. PROVIDE A 4" HIGH INTEGRAL BACK SPLASH ON ALL COUNTERTOPS WITH RECESSED SINKS. INSTALL SIDE/END SPLASHES WHERE THESE COUNTERS ABUT A WALL.
- H. PROVIDE ADJUSTABLE SHELVING WITHIN ALL WALL AND BASE CABINETS AS SHOWN BY DASHED LINE.
- I. BOTTOM OF UPPER CABINETS TO BE FINISHED TO MATCH VERTICAL FACES.
- J. ALL BASE CABINETS SHALL BE 24" DEEP UNLESS NOTED OTHERWISE.
- K. PROVIDE 12" CLEAR INTERIOR DIMENSION ON ALL UPPER WALL CABINETS, UNLESS NOTED OTHERWISE.
- L. ALL CABINET/CASEWORK PULLS TO BE TYPE ____ UNLESS NOTED OTHERWISE.

CASEWORK DESIGN SERIES TAG

- WIDTH → CDS DESIGNATION
DEPTH →
HEIGHT →
MODIFICATION DESCRIPTION

INTERIOR ELEVATION SYMBOLS

- CPT-1 → MATERIAL TAG, REFERENCE FINISH SCHEDULES

| EQUIPMENT SCHEDULE | | | |
|--------------------|---------------------------|----------|----------|
| # | NAME | SCOPE | COMMENTS |
| 600 | LOCAL VACUUM NETWORK PUMP | C.F.C. | |
| 800 | GENERIC EQUIPMENT | O.F.O.I. | |
| 900 | 30" x 32" RH | O.F.O.I. | |
| 950 | MARKERBOARD 48X72 | O.F.O.I. | |

BSA

BSA LifeStructures
9365 Counselors Row, Suite 300
Indianapolis, IN 46240-1478
ph 317.819.7878 fx 317.819.7288

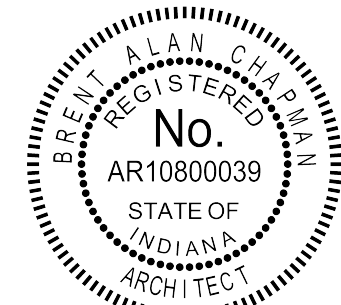
IUB RESEARCH LAB RENOVATIONS

BL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
BL027 SWAIN WEST
729 E 3RD ST, BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

CLIENT PROJECT NO. - 20240397

BIDDING SET
JANUARY 9, 2025

| MARK | DATE | DESCRIPTION |
|------|----------|-------------|
| 3 | 01/29/25 | ADDENDUM 3 |
| 1 | 01/17/25 | ADDENDUM 1 |



But q. du

BL072 CHEMISTRY - LAB
INTERIOR ELEVATIONS

DATE
BSALS PROJECT NO. 00360477

LF602

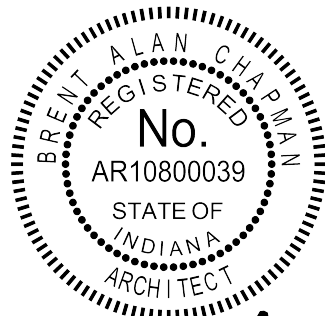
IUB
RESEARCH
LAB
RENOVATIONS

BL072 CHEMISTRY
800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
BL027 SWAIN WEST
729 E 3RD ST, BLOOMINGTON, IN 47405
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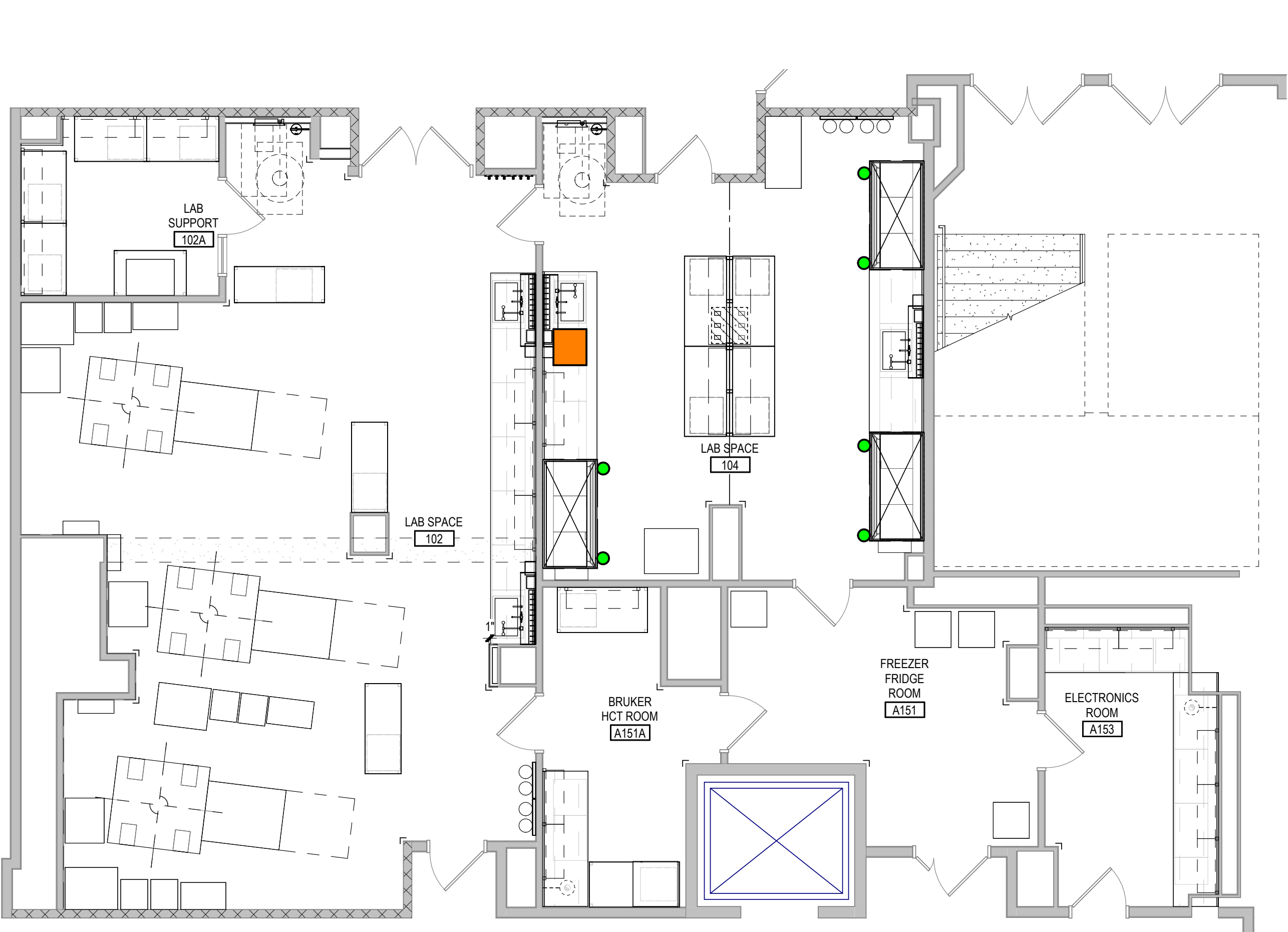


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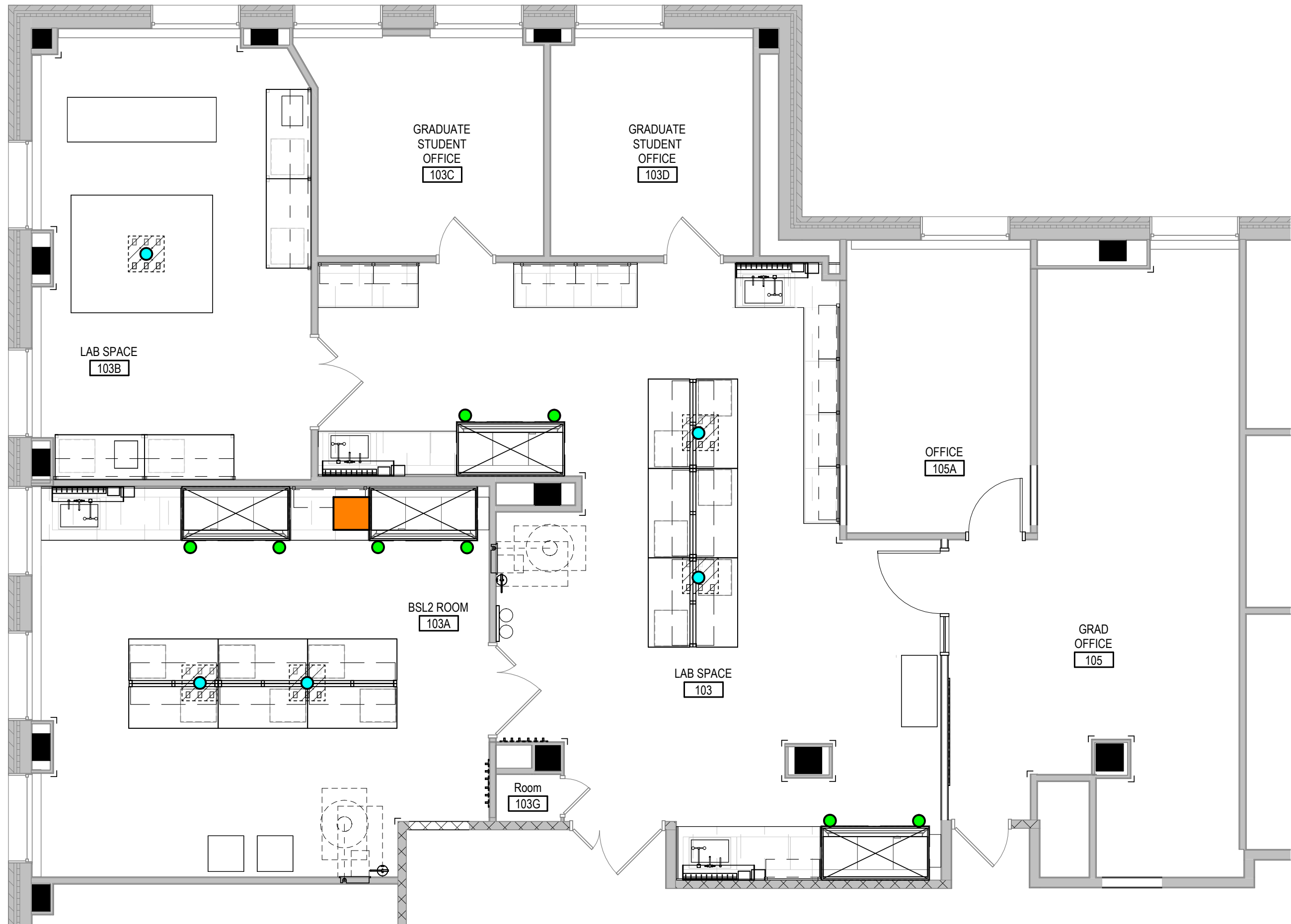
LAB VACUUM ZONES PLAN

DATE
BSALS PROJECT NO. 00360477

LFD05.X



4 CHEMISTRY - LAB VACUUM ZONES PLAN - FIRST FLOOR - 102/104/A151
LFD05.X 3/16" = 1'-0"



3 CHEMISTRY - LAB VACUUM ZONES PLAN - FIRST FLOOR - 103/105
LFD05.X 3/16" = 1'-0"



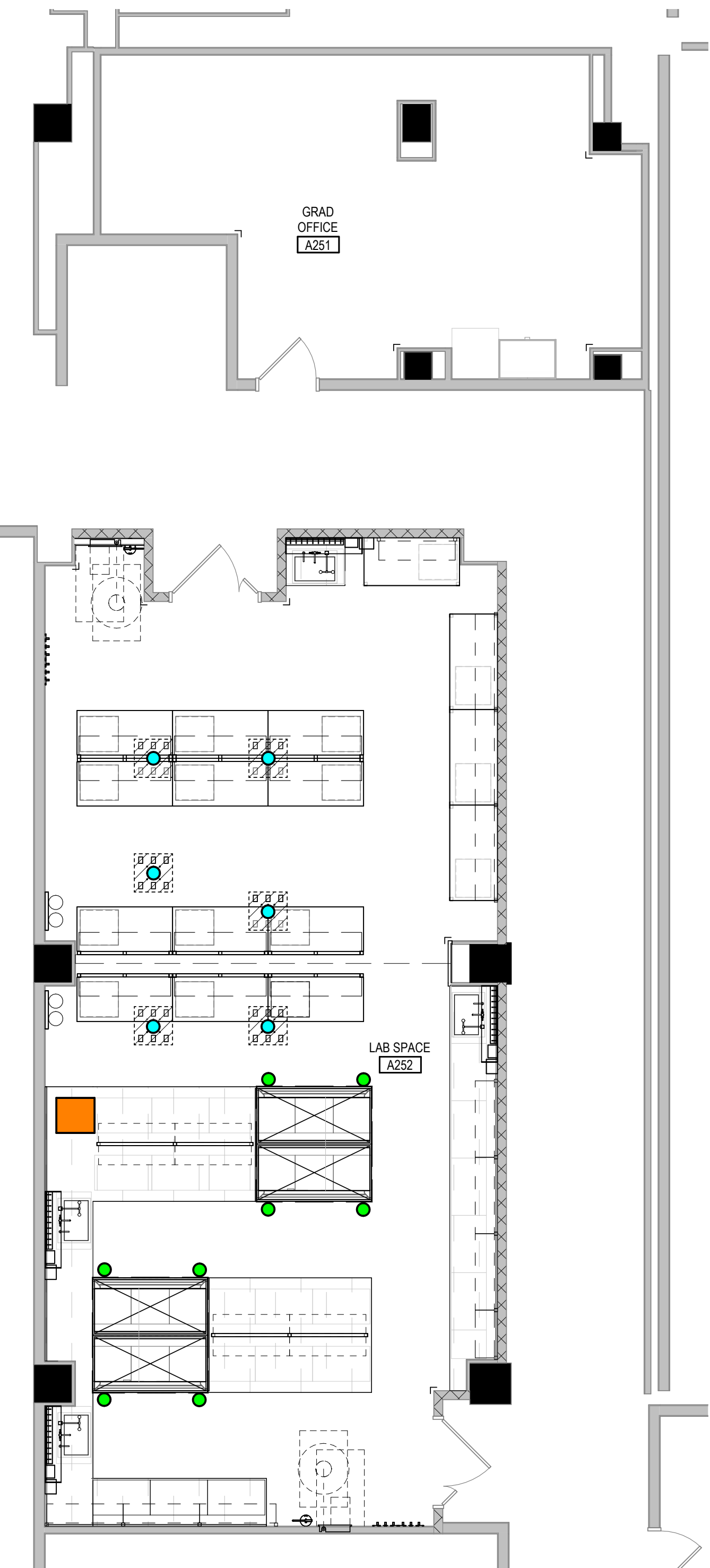
VACUUM PUMP



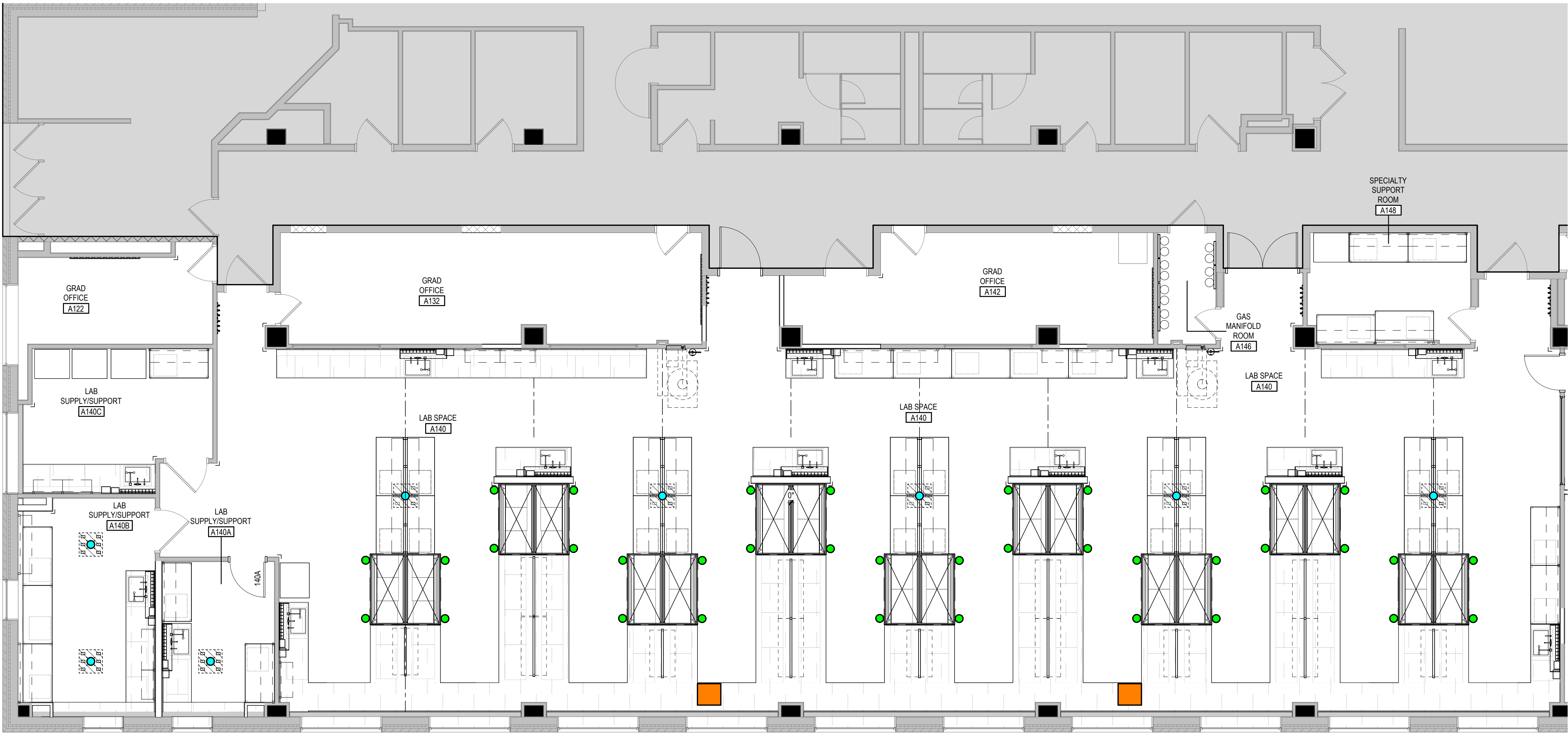
VACUUM FIXTURE ON FUME HOOD



VACUUM FIXTURE ON CEILING SERVICE PANEL

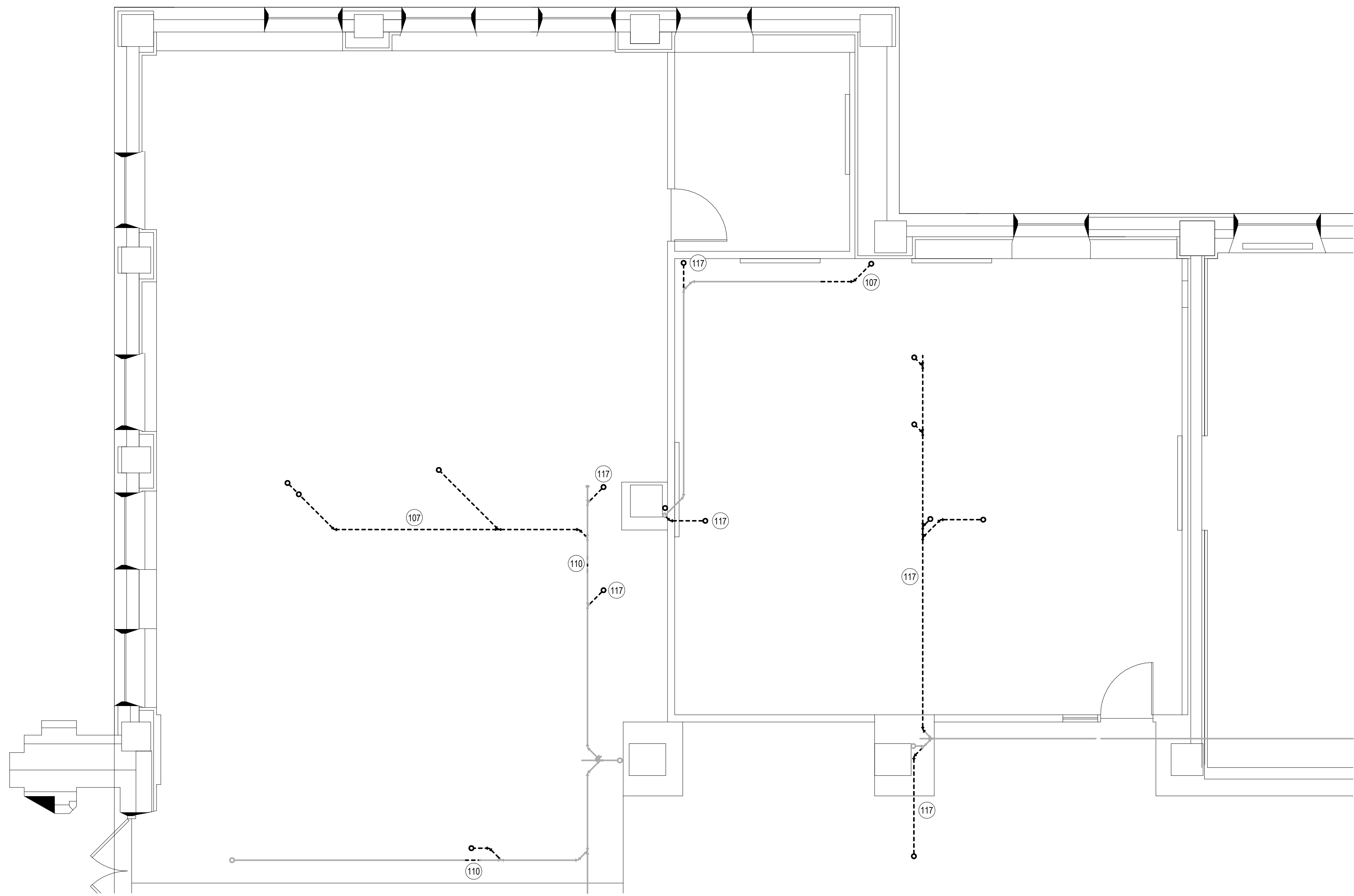


2 CHEMISTRY - LAB VACUUM ZONES PLAN - SECOND FLOOR - A251/A252
LFD05.X 3/16" = 1'-0"

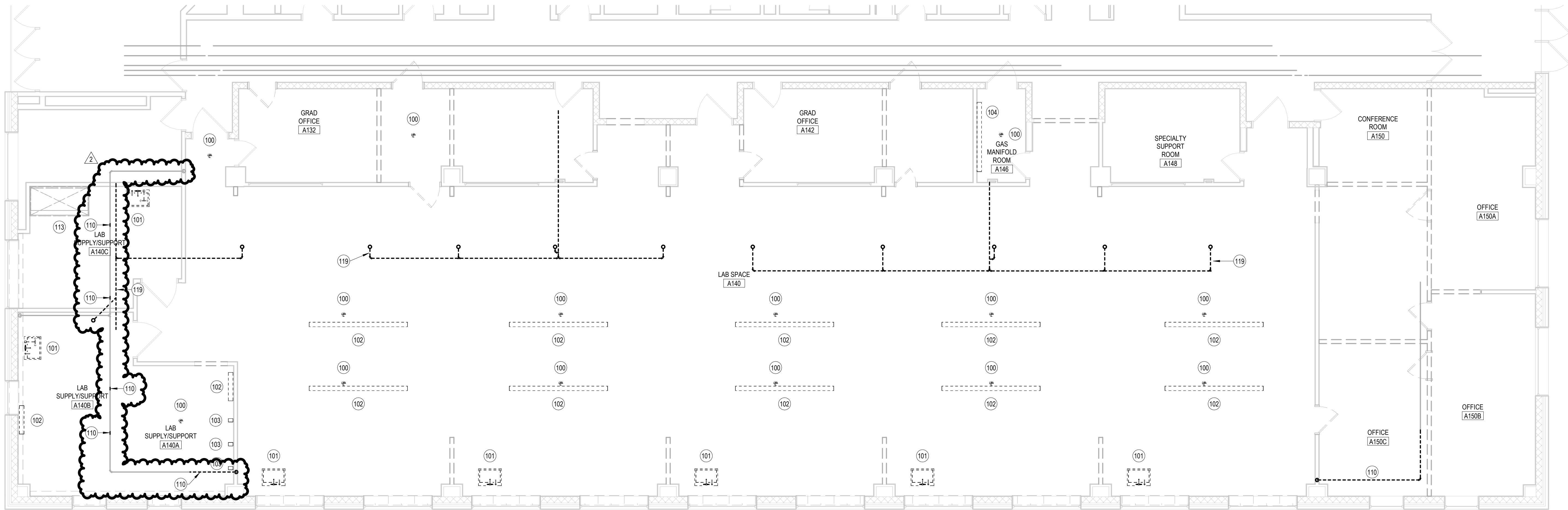


1 CHEMISTRY - LAB VACUUM ZONES PLAN - FIRST FLOOR - A140/A150
LFD05.X 3/16" = 1'-0"

| X00 | PLAN NOTES |
|-----|---|
| 100 | REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED SANITARY PIPING BACK TO MAIN AND CAP. PATCH INFILL TO MATCH EXISTING CONCRETE. |
| 101 | REMOVE EXISTING SINK AND ALL ASSOCIATED TRIM BACK TO MAIN. PREPARE PIPE FOR NEW CONNECTION. |
| 102 | REMOVE EXISTING LAB GAS PIPING BACK TO MANIFOLD AND ALL ASSOCIATED TRIM ON BRACKET. REMOVE EXISTING COLD WATER PIPING BACK TO MAIN AND CAP. |
| 103 | REMOVE EXISTING LAB GAS BOX CONNECTION AND ALL ASSOCIATED PIPING BACK TO MAIN AND CAP. |
| 104 | REMOVE EXISTING LAB GAS MANIFOLD AND ALL ASSOCIATED PIPING TO EXISTING GAS BRACKETS AND TRIM. |
| 107 | REMOVE EXISTING SPECIAL WASTE PIPE AND FITTINGS AND PREPARE EXISTING PIPE FOR FUTURE CONNECTION. |
| 110 | REMOVE SEGMENT OF PIPE AND PREPARE PIPE FOR FUTURE CONNECTION. |
| 113 | REMOVE EXISTING SPECIAL WASTE ABOVE/BELOW FLOOR, LAB GASSES, WATER AND VENT PIPING FROM FUME HOOD BACK TO MAIN AND CAP. |
| 117 | REMOVE EXISTING SPECIAL WASTE PIPE BACK TO MAIN AND CAP. |
| 119 | REMOVE EXISTING SPECIAL WASTE PIPING, FITTINGS, AND HANGERS COMPLETE. |



1 PLUMBING DEMOLITION PLAN - LEVEL OG
1/4" = 1'-0"



2 PLUMBING DEMOLITION PLAN - A140 AREA
3/16" = 1'-0"

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BL070 SIMON HALL
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CLIENT PROJECT NO. - 20240397

BIDDING SET
JANUARY 9, 2025

| MARK | DATE | DESCRIPTION |
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| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |

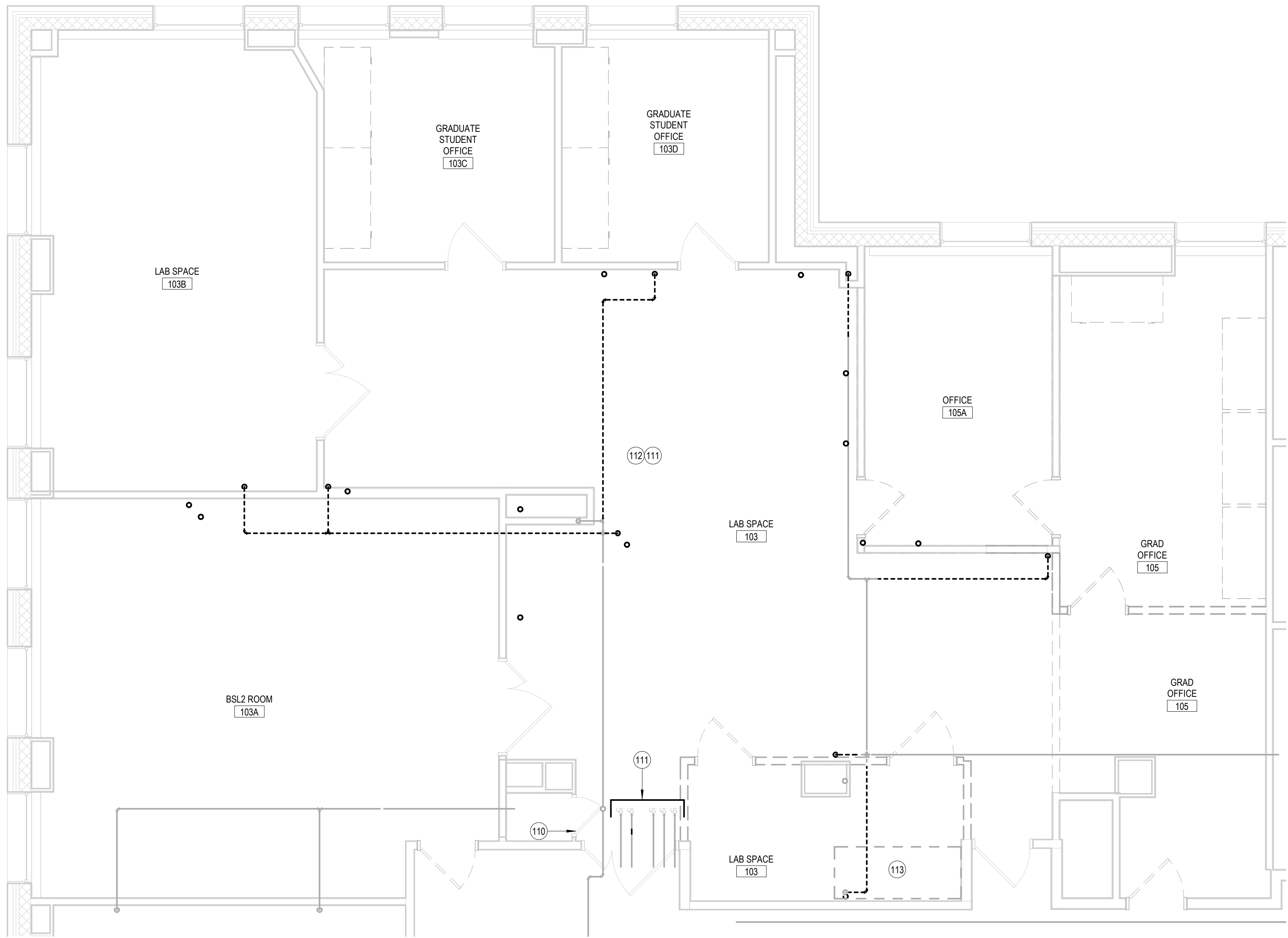


BL072 CHEMISTRY -
PLUMBING DEMOLITION
PLANS

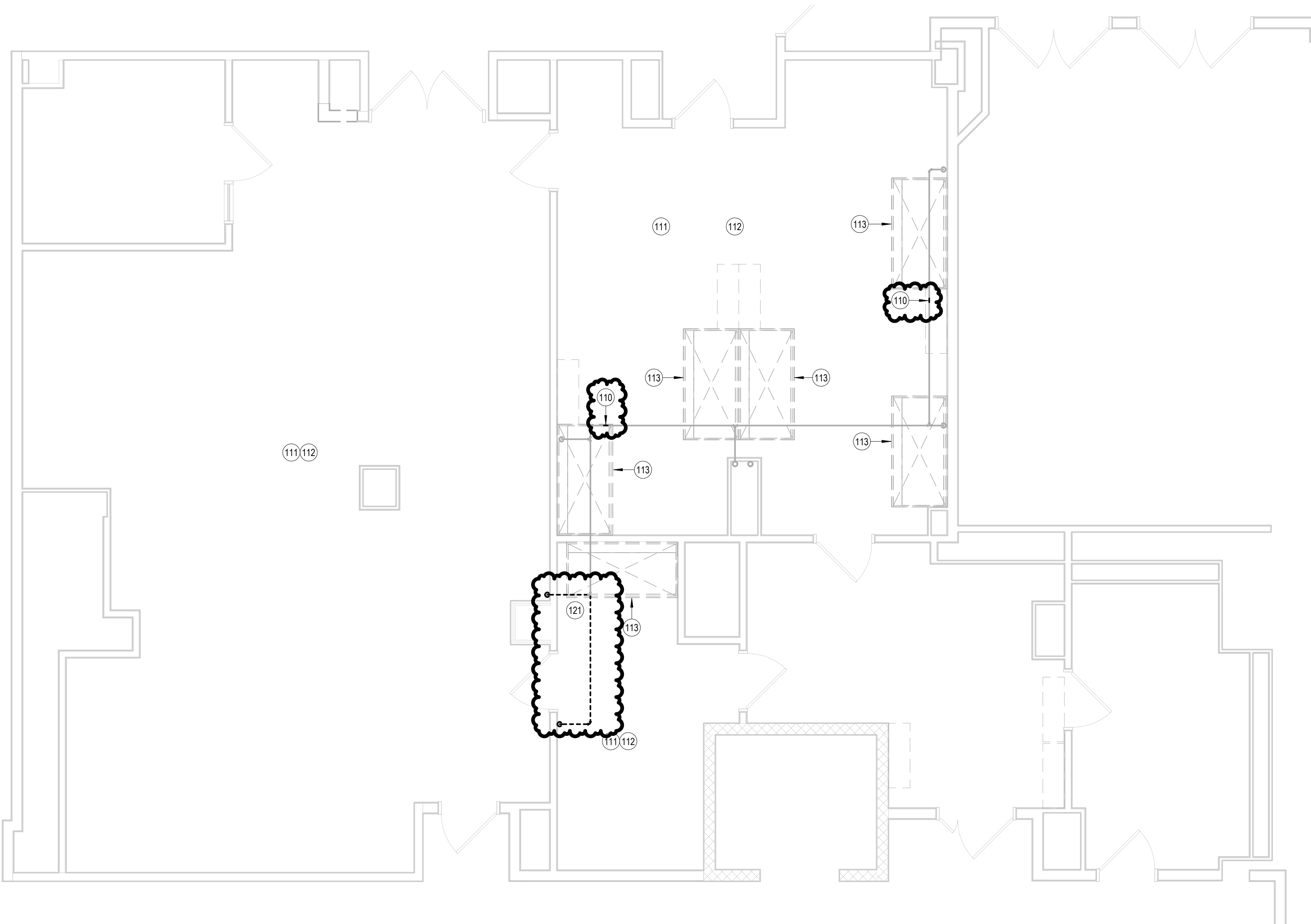
DATE JAN 1, 2017
BSALS PROJECT NO. 00360477

P100

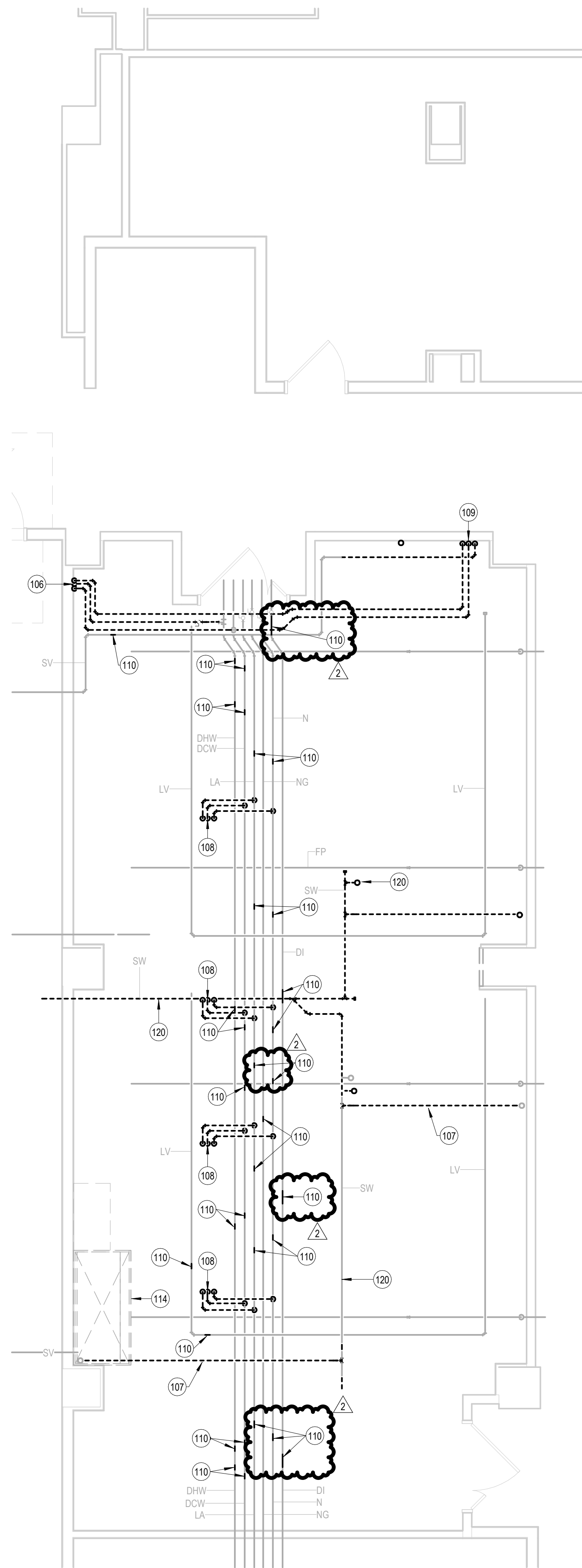
| X00 | PLAN NOTES |
|-----|--|
| 106 | REMOVE EXISTING COLD, HOT AND LAB AIR BACK TO POINT INDICATED ON DRAWINGS. PREPARE COLD AND HOT WATER F FOR FUTURE CONNECTION. |
| 107 | REMOVE EXISTING SPECIAL WASTE PIPE AND FITTINGS AND PREPARE EXISTING PIPE FOR FUTURE CONNECTION. |
| 108 | REMOVE EXISTING LAB AIR, COLD WATER AND NITROGEN BACK TO MAIN AND CAP. |
| 109 | REMOVE COLD WATER AND LAB AIR PIPING BACK TO MAIN AND CAP. |
| 110 | REMOVE SEGMENT OF PIPE AND PREPARE PIPE FOR FUTURE CONNECTION. |
| 111 | REMOVE ALL COLD WATER, HOT WATER, LAB AIR AND NITROGEN BACK TO MAIN VALVES AND PREPARE PIPE FOR FUTURE CONNECTION. |
| 112 | REMOVE ALL EXISTING SPECIAL WASTE AND VENT ALONG WITH ALL ASSOCIATED TRIM BACK TO MAIN AND PREPARE PIPE FOR NEW CONNECTION. |
| 113 | REMOVE EXISTING SPECIAL WASTE ABOVE/BELOW FLOOR, LAB GASSES, WATER AND VENT PIPING FROM FUME HOOD BACK TO MAIN AND CAP. |
| 114 | REMOVE EXISTING SPECIAL WASTE ABOVE/BELOW FLOOR, VENT, LAB GASSES AND WATER PIPING FROM FUME HOOD BACK TO MAIN AND CAP. |
| 121 | REMOVE SEGEMENT OF SPECIAL VENT PIPING AND CAP AT MAIN. |



3 PLUMBING DEMOLITION PLAN - 103/105 AREA
1/4" = 1'-0"



1 PLUMBING DEMOLITION PLAN - 102/104 AREA
1/4" = 1'-0"



2 PLUMBING DEMOLITION PLAN - A251 / A252 AREA
1/4" = 1'-0"

IUB RESEARCH LAB RENOVATIONS

BL072 CHEMISTRY
800 E KIRKWOOD AVE., BLOOMINGTON, IN 47405
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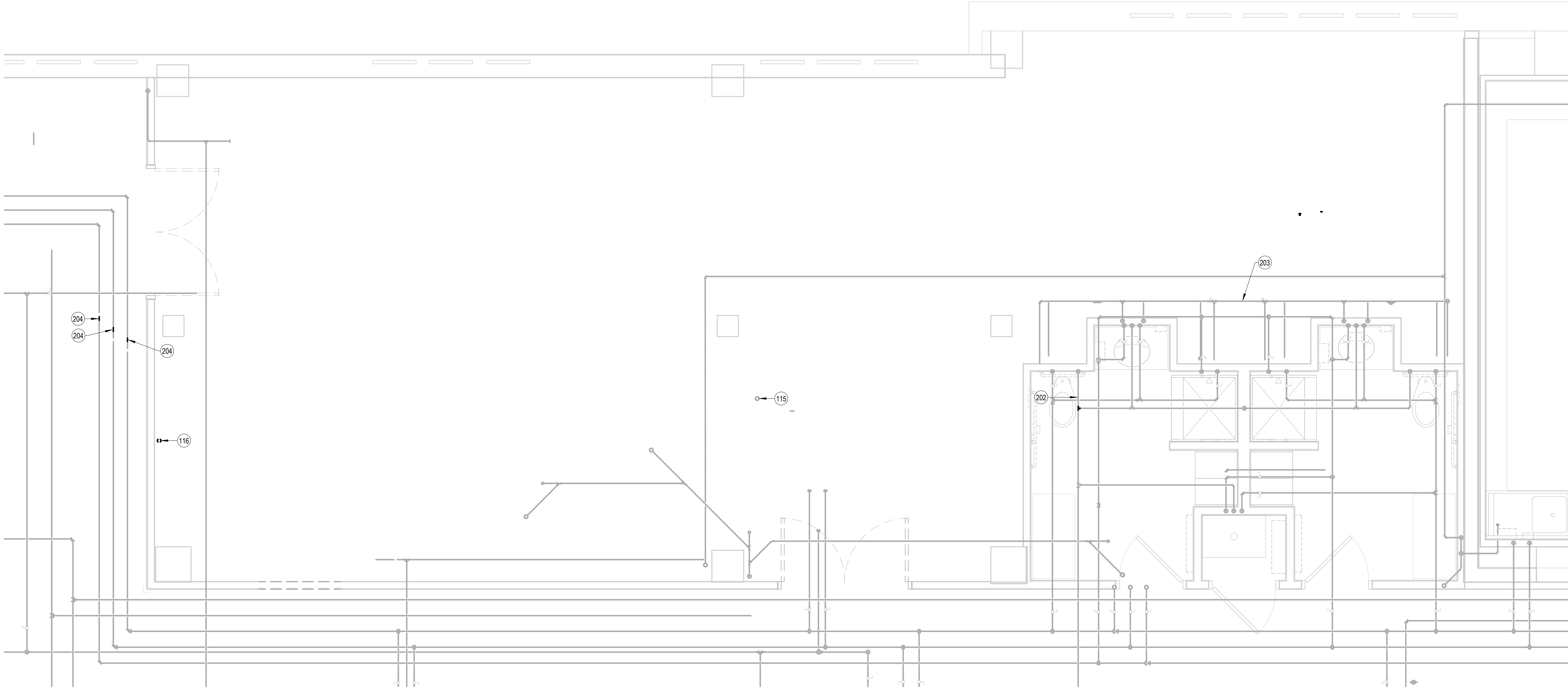


BL072 CHEMISTRY -
PLUMBING DEMOLITION
PLANS

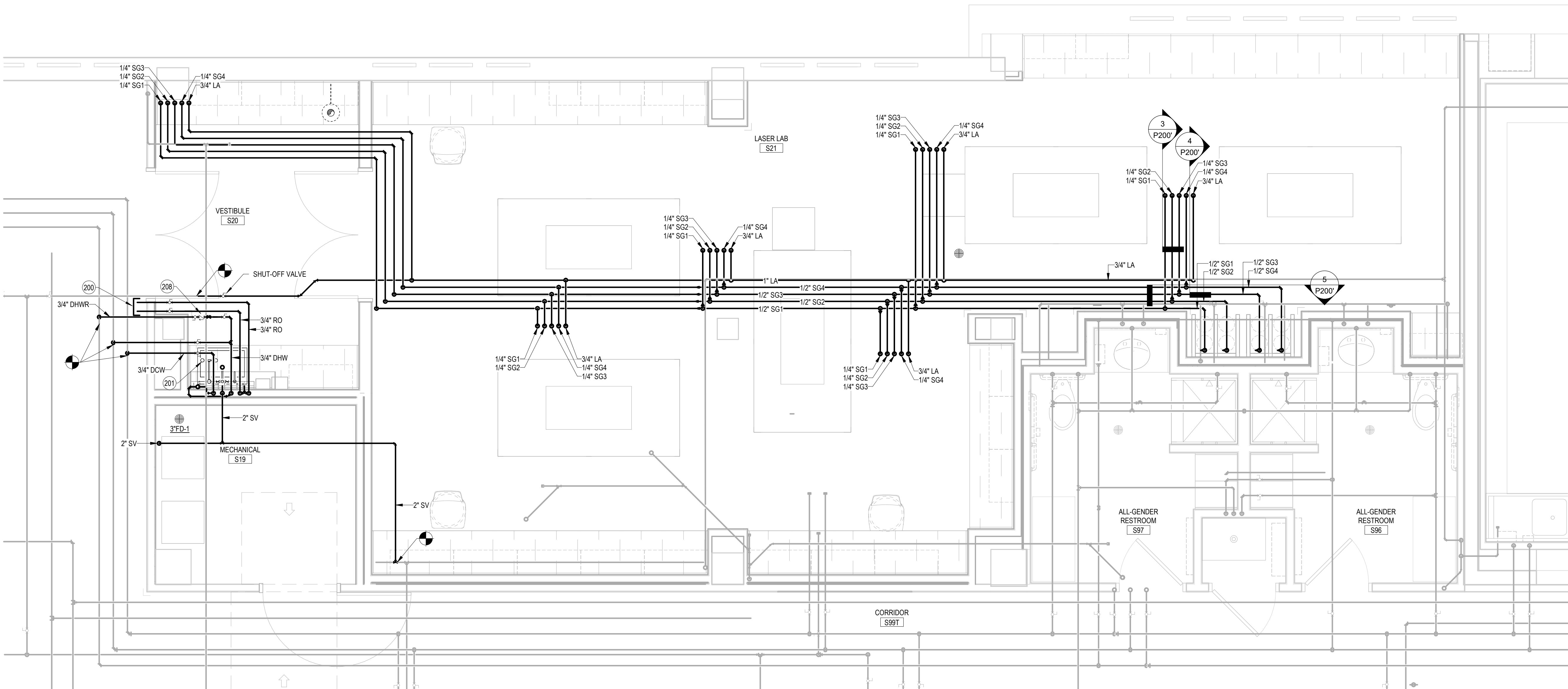
DATE JAN 1, 2017
BSALS PROJECT NO. 00360477

P101

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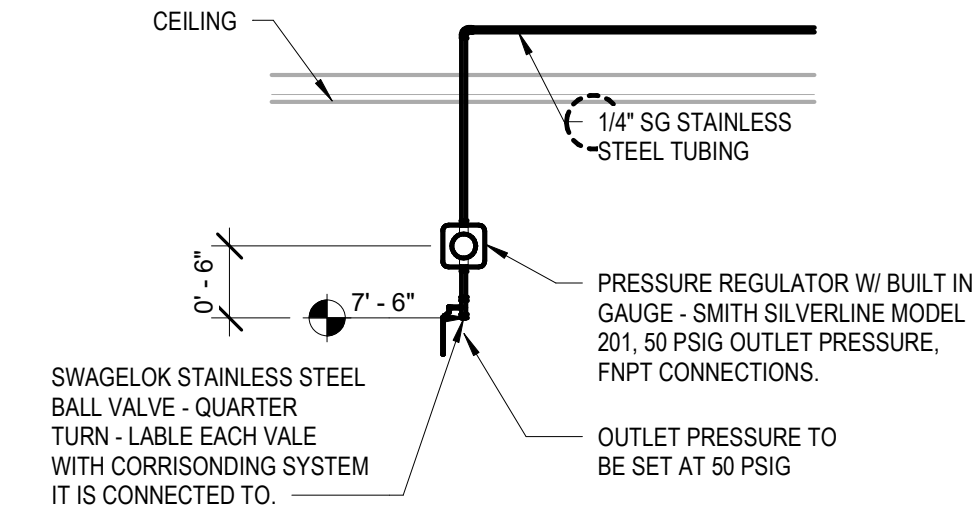


1 PLUMBING DEMOLITION SUB-BASEMENT PLAN - ROOM S19/S20 AREA
3/8" = 1'-0"

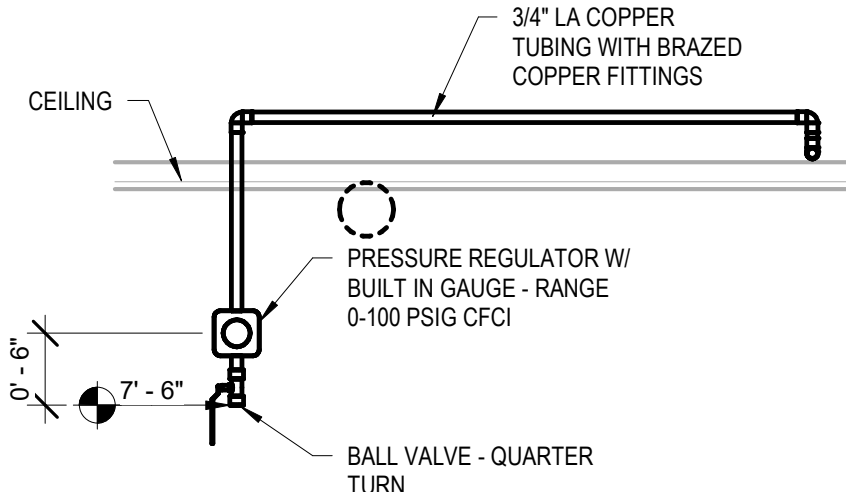


2 PLUMBING SUB-BASEMENT PLAN - ROOM S19/S20 AREA
3/8" = 1'-0"

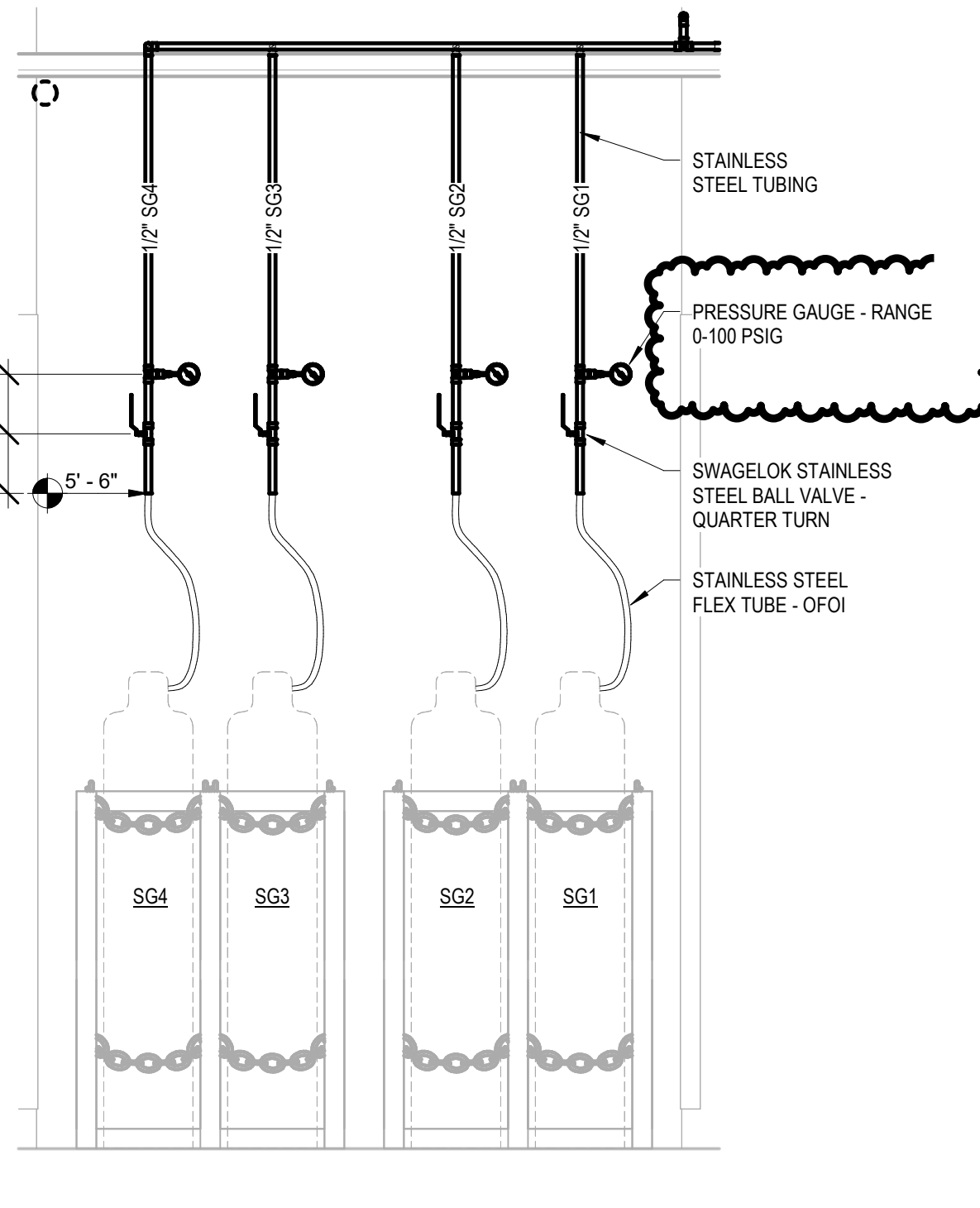
| X00 | PLAN NOTES |
|-----|--|
| 115 | REMOVE EXISTING STUB UP BELOW SLAB AND CAP. PATCH CONCRETE TO MATCH EXISTING CONCRETE. |
| 116 | REMOVE EXISTING STUB UP BELOW FLOOR AND PREPARE PIPE FOR FUTURE CONNECTION. PATCH CONCRETE TO MATCH EXISTING CONCRETE. |
| 200 | CONNECT NEW 3/4" RO WATER LOOP TO EXISTING RO SYSTEM. |
| 201 | PROVIDE NEW THERMO MIXING VALVE UNDER SINK TO EMERGENCY EYE WASH. SET THERMO MIXING VALVE AT 72 DEGREE AT 3 GPM. |
| 202 | REMOVE EXISTING VENT TEE AND PREPARE PIPE FOR FUTURE CONNECTION. |
| 203 | RAISE EXISTING HOT/COLD WATER PIPING AS NEEDED TO AVOID NEW CEILING. |
| 204 | REMOVE SECTION OF EXISTING PIPING AND PREPARE PIPE FOR FUTURE CONNECTION. |
| 208 | PROVIDE CIRCUIT SETTER ASSEMBLY AND SET AT 1.0 GPM. |



3 TYPICAL SG PIPE SECTION - TWENTY-FOUR LOCATIONS
3/4" = 1'-0"



4 LA CEILING SECTION - TYPICAL SIX LOCATIONS
3/4" = 1'-0"



5 SG TANKS CONNECTIONS
3/4" = 1'-0"

| MARK | DATE | DESCRIPTION |
|------|----------|-------------|
| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |



BL027 SWAIN -
SUB-BASEMENT PLANS SW
S19-S21 AREA

DATE NOV 27, 2024
BSALS PROJECT NO. 00360477

P200'

BSA

BSA LifeStructures
9365 Counselors Row, Suite 300
Indianapolis, IN 46240-1478
ph 317.819.7878 fx 317.819.7288

IUB RESEARCH LAB RENOVATIONS

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BL027 SWAIN WEST
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IUB
RESEARCH
LAB
RENOVATIONS

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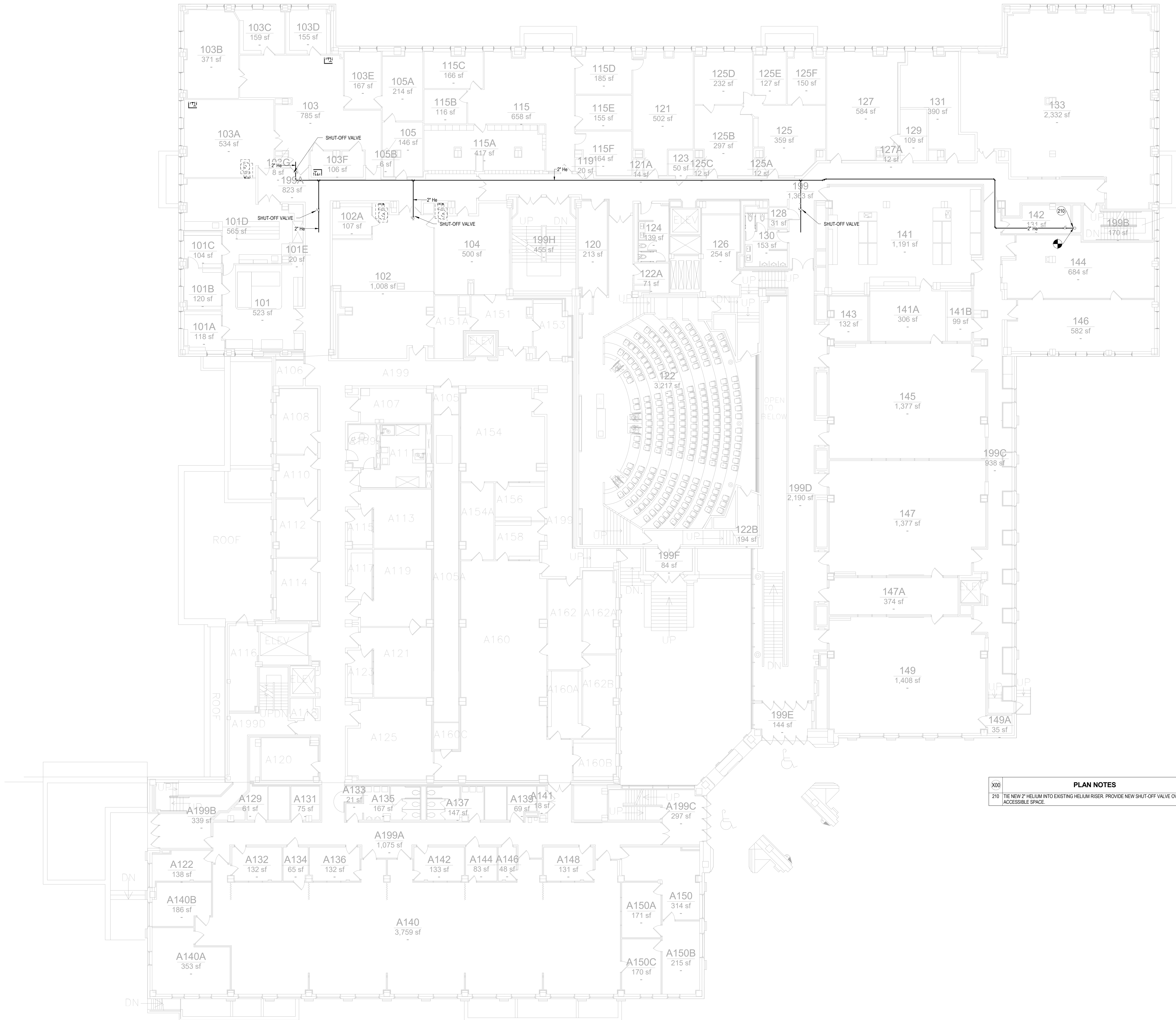
CLIENT PROJECT NO. - 20240397

BIDDING SET
JANUARY 9, 2025

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| 1 | 01/17/25 | ADDENDUM 1 |

BL072 CHEMISTRY -
OVERALL FLOOR PLAN -
LEVEL 1

DATE JAN 1, 2017
BSALS PROJECT NO. 00060472



PLAN NOTES

- 401 PROVIDE 3/8" NITROGEN AND 3/8" LAB AIR TO CEILING SERVICE PANEL.
402 PROVIDE COLD WATER, NATURAL GAS, NITROGEN, LAB AIR AND SPECIAL GAS TO FUME HOOD.
403 PROVIDE RO WATER, HOT/COLD WATER, SANITARY AND VENT ROUTE VENT TO NEAREST VENT.
404 PROVIDE NEW TAPPING FOR NITROGEN AND FLOW OF 5 GPM.
405 PROVIDE NITROGEN, SPECIAL GAS, AND LAB AIR TO FUME HOODS.
406 PROVIDE EMERGENCY SHUT OFF BUTT AND SOL ENCLOSE VALVE FOR NATURAL GAS.
PROVIDE WIRE AND CONDUIT COMPLETE FROM POWER SOURCE TO BUTT TO VALVE.
COORDINATE POWER SOURCE VOLTAGE AND LOCATION WITH ELECTRICAL TRADES.
MANUFACTURER BURNABY - MODEL MESO AUXILIARY SHUT-OFF AND ASCO GAS SHUT-OFF VALVE (ALUMINUM BODY, 2-WAY NORMALLY CLOSED). MOUNT BUTT ON 4'-0" AFF AND PROVIDE WALL MOUNTED STORAGE "NATURAL GAS SHUT-OFF".
412 PROVIDE ALCAT MAS FLOW METER MCS SERIES FOR NITROGEN GAS PIPING.
413 PROVIDE SPECIAL WASTE PIPING AND VENT TO TWO CUP SINKS. ROUTE PIPING BEHIND HOOD AND CONNECT TO WASTE PIPE FROM SINK.
416 PROVIDE 1" BACKFLOW PREVENTER FOR NPW CONNECTION TO FUME HOODS. CONNECT COMPLETE TO EACH HOOD'S WATER CONNECTION (TWO CUP SINK FIXTURES). SEE BACKFLOW PREVENTION DETAIL FOR ADDITIONAL REQUIREMENTS.
423 PROVIDE A SINGLE STAINLESS SG TUBE RUNNING DOWN THE WALL AT THE TANK. THE TUBE WOULD END AT 5'-6" AFF WITH A BALL VALVE AT 6'-0" AFF AND A 0-100 PSIG PRESSURE GAUGE AT 6'-6" AFF. CYLINDERS AND PRESSURE REGULATORS AND HOISING ARE THEN OFCI.

LAB VACUUM SYSTEM

A LOCAL ROOM-LEVEL LAB VACUUM SYSTEM(S) HAS BEEN IDENTIFIED IN THE 119000 SPECIFICATION AND ON THE LAB FURNISHINGS DRAWINGS. THE PLUMBING TRADESPEOPLE AND DIVISION 22 CONTRACTOR SHALL PHYSICALLY INSTALL THE 119000 SYSTEMS VACUUM PUMP, TUBING AND FITTINGS, AND TUBING HANGERS WHICH ARE FURNISHED BY THE 119000 SUPPLIER. THE PLUMBING TRADESPEOPLE AND DIVISION 22 CONTRACTOR SHALL PROVIDE ADDITIONAL TUBING HANGERS AND OTHER INSTALLATION HARDWARE WHICH ARE NOT FURNISHED BY THE 119000 SUPPLIER. COORDINATE CLOSELY WITH THE 119000 SUPPLIER SUCH THAT THE FINISHED COMPLETED VACUUM SYSTEM INSTALLATION MEETS THE 119000 SUPPLIER WRITTEN INSTALLATION INSTRUCTIONS.

IUB
RESEARCH
LAB
RENOVATIONS

BL072 CHEMISTRY
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BL027 SWAIN WEST
729 E 3RD ST., BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

CLIENT PROJECT NO. - 20240397

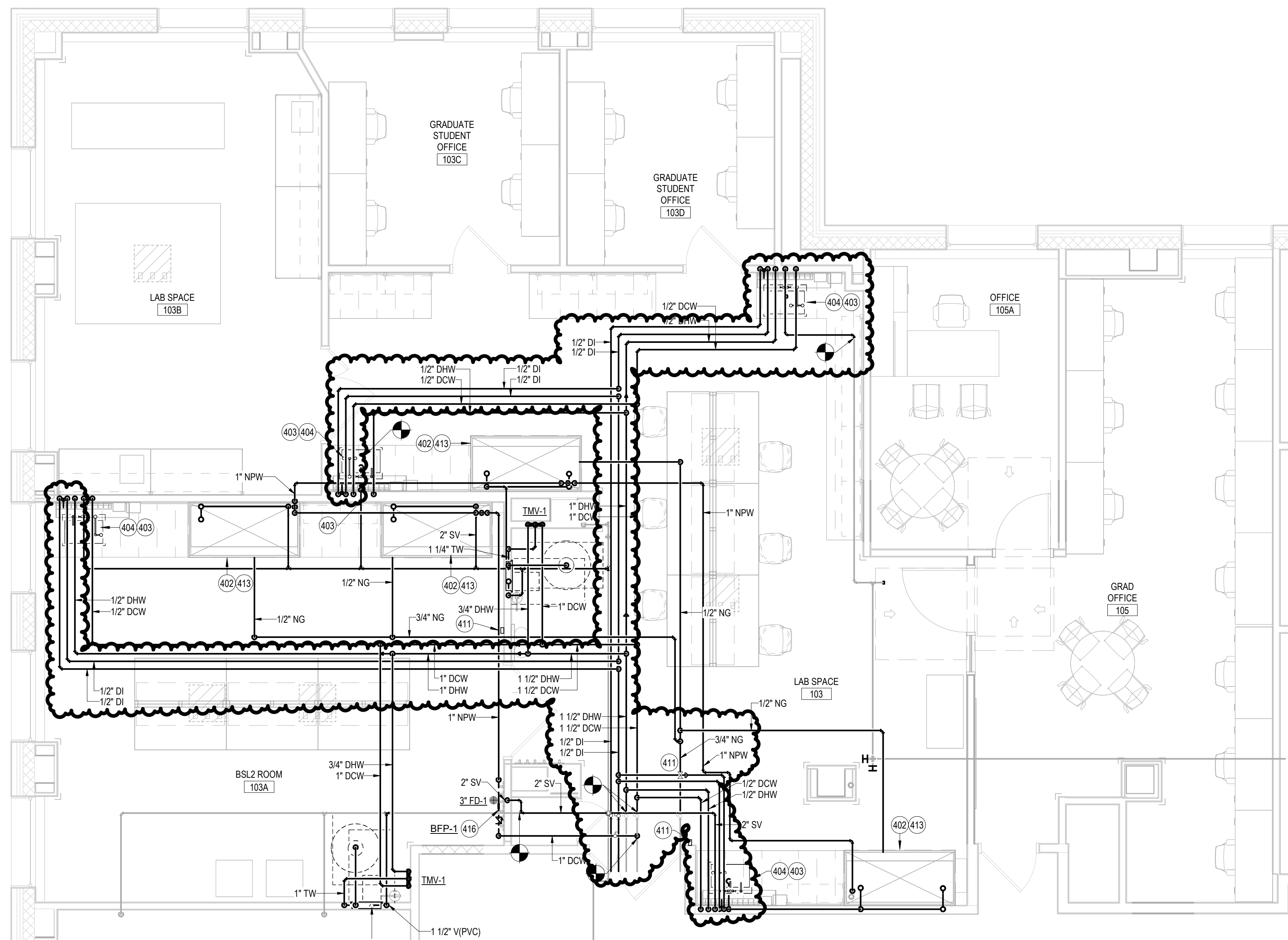
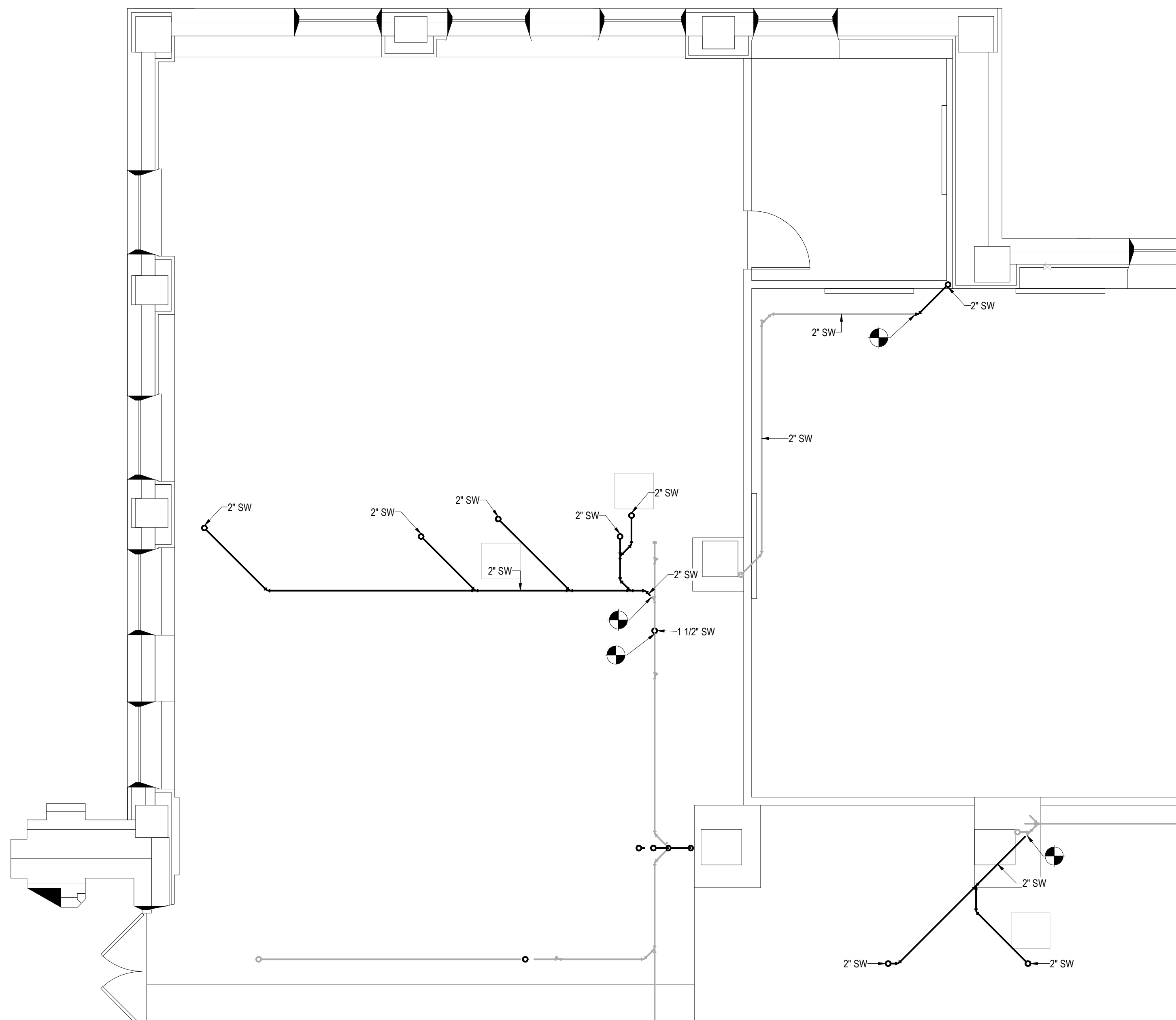
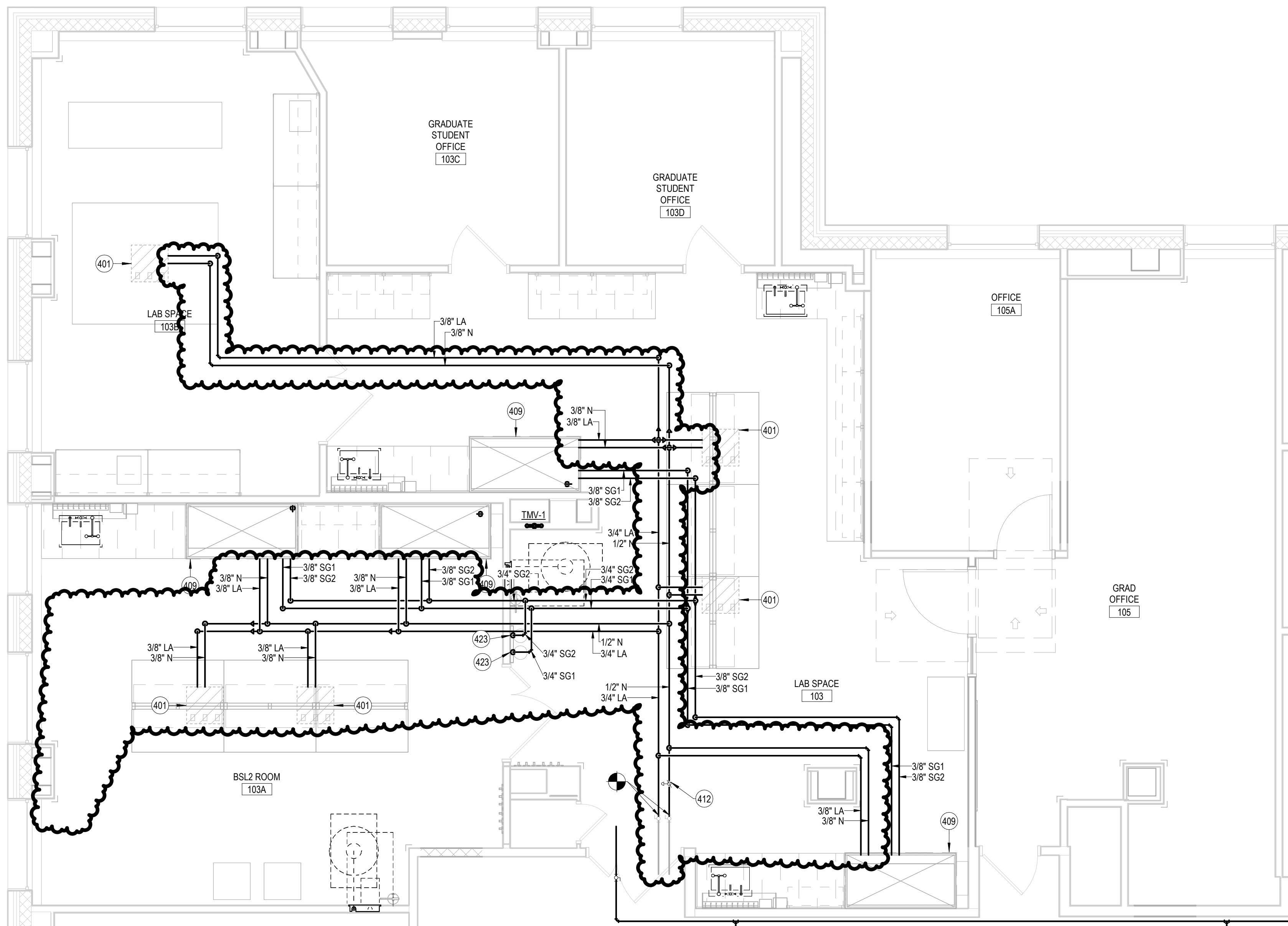
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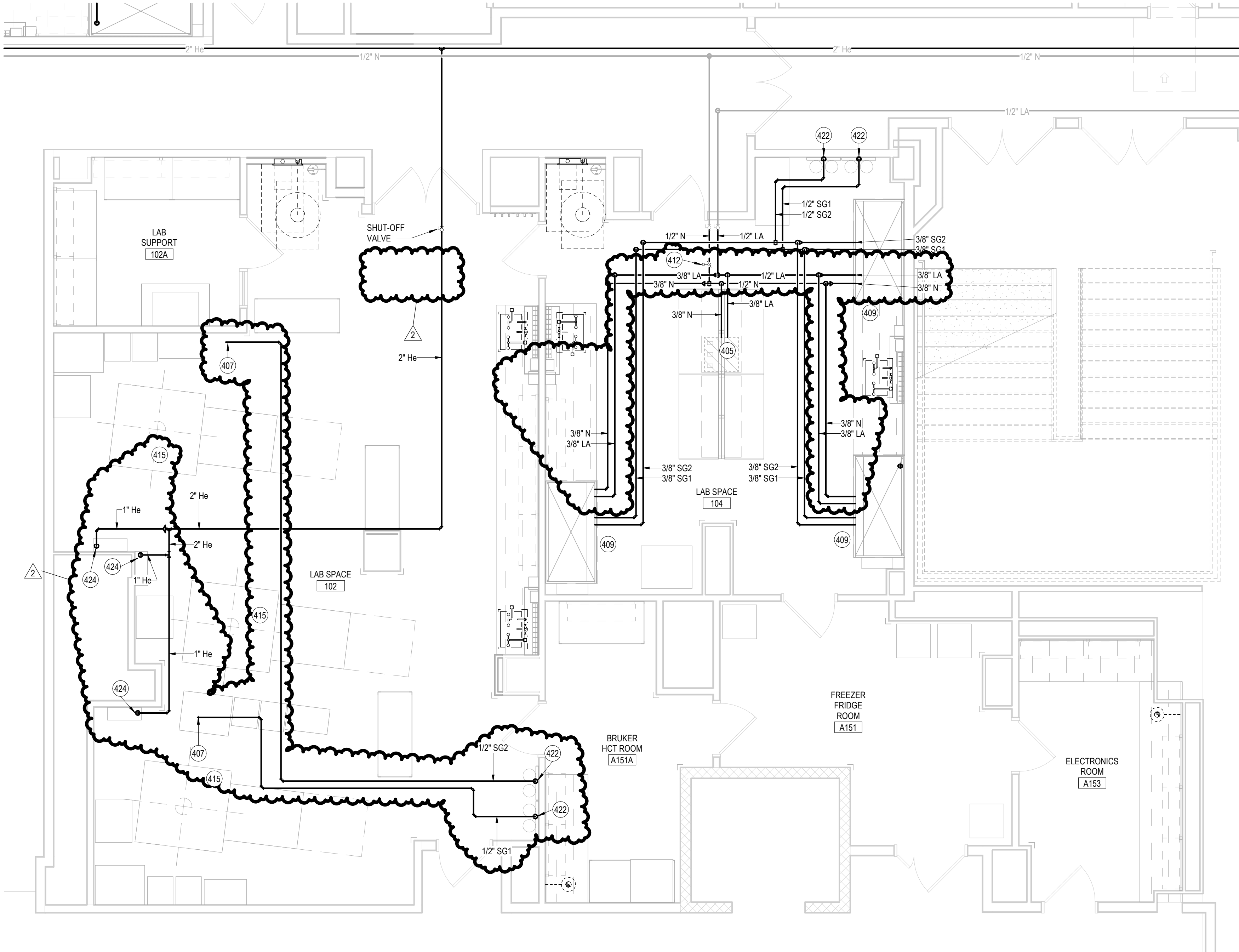
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|------|----------|-------------|
| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |

REGISTERED
No.
PE19500446
STATE OF
INDIANA
PLUMBING*P. Hays*BL072 CHEMISTRY -
PLUMBING PLAN - CH
103/105 AREADATE JAN 1, 2017
BSALS PROJECT NO. 00360477

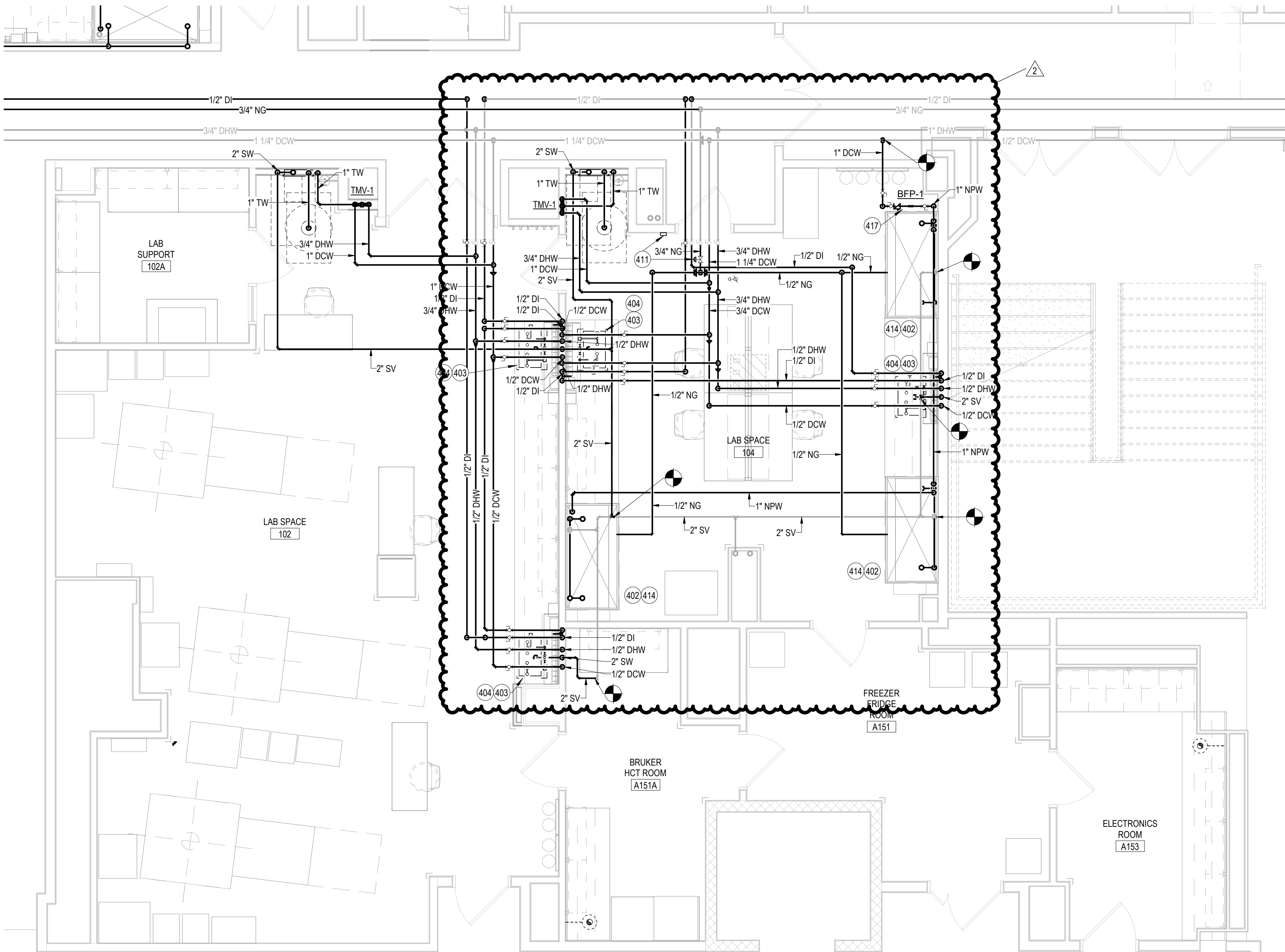
P210

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1 PLUMBING PLAN - 103/105 AREA
1/4" = 1'-0"2 PLUMBING PLAN - LEVEL OG
1/4" = 1'-0"3 LAB GAS PLAN - 103/105 AREA
1/4" = 1'-0"



2 LAB GAS PLAN - 102/104 AREA
1/4" = 1'-0"

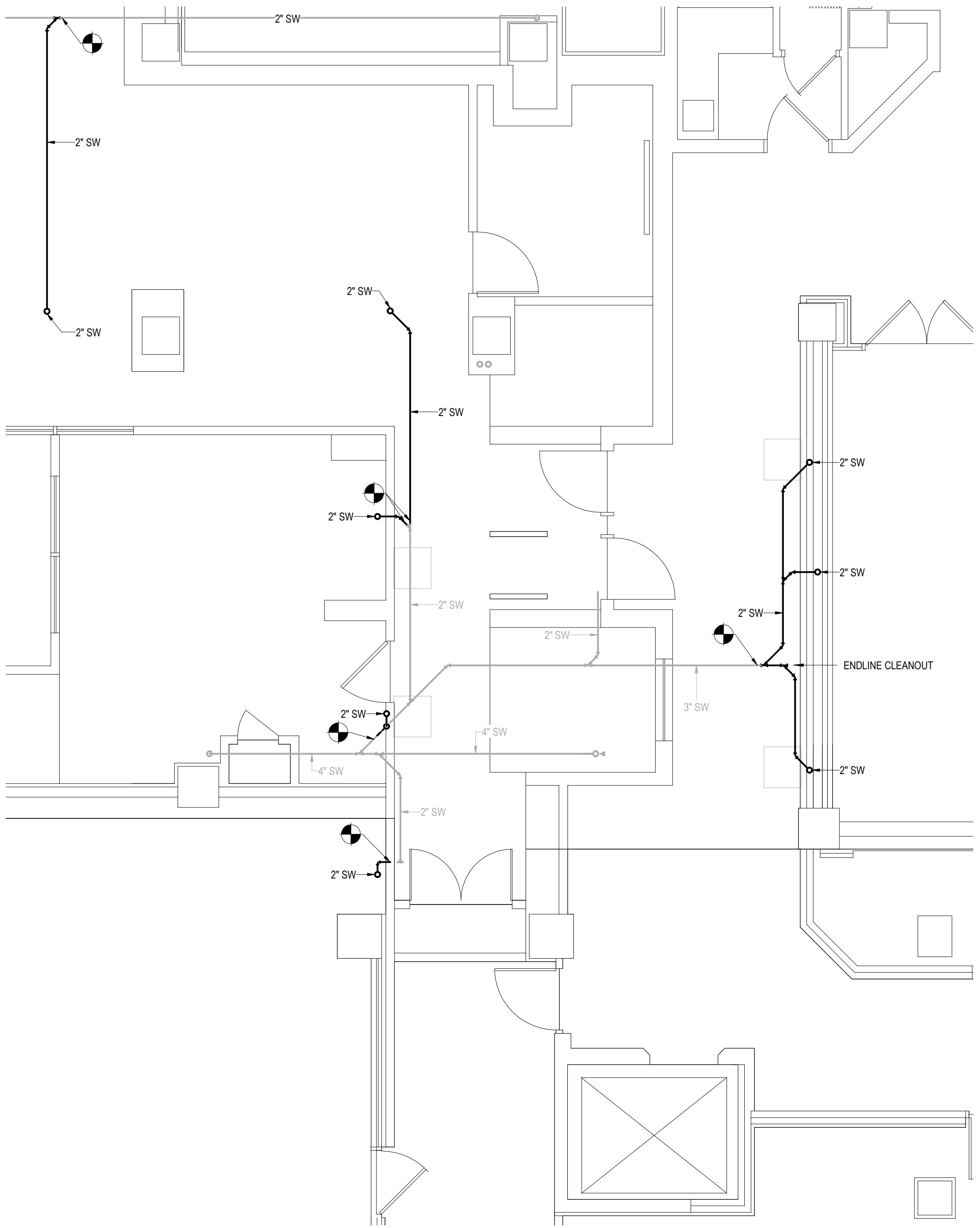


1 PLUMBING PLAN - 102/104 AREA
1/4" = 1'-0"

- PLAN NOTES**
- 402 PROVIDE COLD WATER, NATURAL GAS, NITROGEN, LAB AIR AND SPECIAL GAS TO FUME HOOD.
 - 404 PROVIDE NEW THERMO MIXING VALVE UNDER SINK TO EMERGENCY EYE WASH. SET THERMO MIXING VALVE AT 72 DEGREE AND FLOW OF 3 GPM.
 - 407 TERMINATE SG WITH THREADED CAP ABOVE CEILING AT THIS LOCATION.
 - 409 PROVIDE NITROGEN, SPECIAL GAS, AND LAB AIR TO FUME HOODS.
 - 414 PROVIDE NITROGEN, SPECIAL GAS, AND LAB AIR TO FUME HOODS.
 - 412 PROVIDE ALICAT MAS FLOW METER MCS SERIES FOR NITROGEN GAS PIPING.
 - 415 COORDINATE WITH ALL TRADES SO THAT THE BOTTOM OF EVERY PIPE, CONDUIT, AND DUCT (INCLUDING PIPE HANGERS AND DUCT HANGERS) LOCATED DIRECTLY ABOVE THIS 6'X6' AREA WHERE THERE IS NO CEILING GRID NOR CEILING TILE IS NO LOWER THAN 10'-1" AFF.
 - 422 PROVIDE A SINGLE STAINLESS SG TUBE RUNNING DOWN THE WALL AT THE TANKS. THE TUBE WOULD END AT 5'-6" AFF WITH A BALL VALVE AT 6'-0" AFF AND A 0-100 PSIG PRESSURE GAUGE AT 6'-6" AFF. CYLINDERS AND PRESSURE REGULATORS AND HOISING ARE WHEN ORDERED.
 - 424 PROVIDE A HELIUM RECOVERY MANIFOLD AT THIS LOCATION PER THE DETAIL.

LAB VACUUM SYSTEM

A LOCAL ROOM-LEVEL LAB VACUUM SYSTEM(S) HAS BEEN IDENTIFIED IN THE 119000 SPECIFICATION AND ON THE LAB FURNISHINGS DRAWINGS. THE PLUMBING TRADESPEOPLE AND DIVISION 22 CONTRACTOR SHALL PHYSICALLY INSTALL THE 119000 SYSTEM'S VACUUM PUMP, TUBING AND FITTINGS, AND TUBING HANGERS WHICH ARE FURNISHED BY THE 119000 SUPPLIER. THE PLUMBING TRADESPEOPLE AND DIVISION 22 CONTRACTOR SHALL PROVIDE ADDITIONAL TUBING HANGERS AND OTHER INSTALLATION HARDWARE WHICH ARE NOT FURNISHED BY THE 119000 SUPPLIER. COORDINATE CLOSELY WITH THE 119000 SUPPLIER SUCH THAT THE FINISHED COMPLETED VACUUM SYSTEM INSTALLATION MEETS THE 119000 SUPPLIER WRITTEN INSTALLATION INSTRUCTIONS.



3 PLUMBING PLAN - LEVEL OG-AREA 102/104
1/4" = 1'-0"

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Indianapolis, IN 46240-1478
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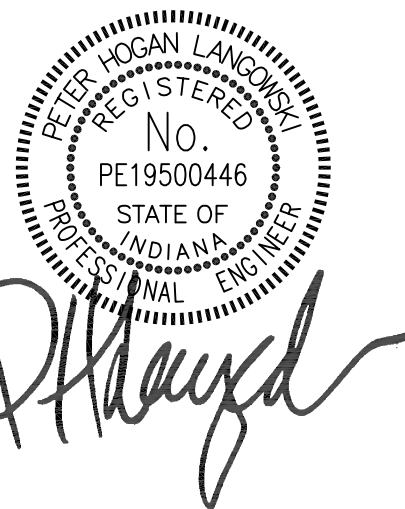
**IUB
RESEARCH
LAB
RENOVATIONS**

BL072 CHEMISTRY
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BL027 SWAIN WEST
729 E 3RD ST., BLOOMINGTON, IN 47405
BL070 SIMON HALL
212 S HAWTHORNE DR, BLOOMINGTON, IN 47405

CLIENT PROJECT NO. - 20240397

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JANUARY 9, 2025**

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| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |



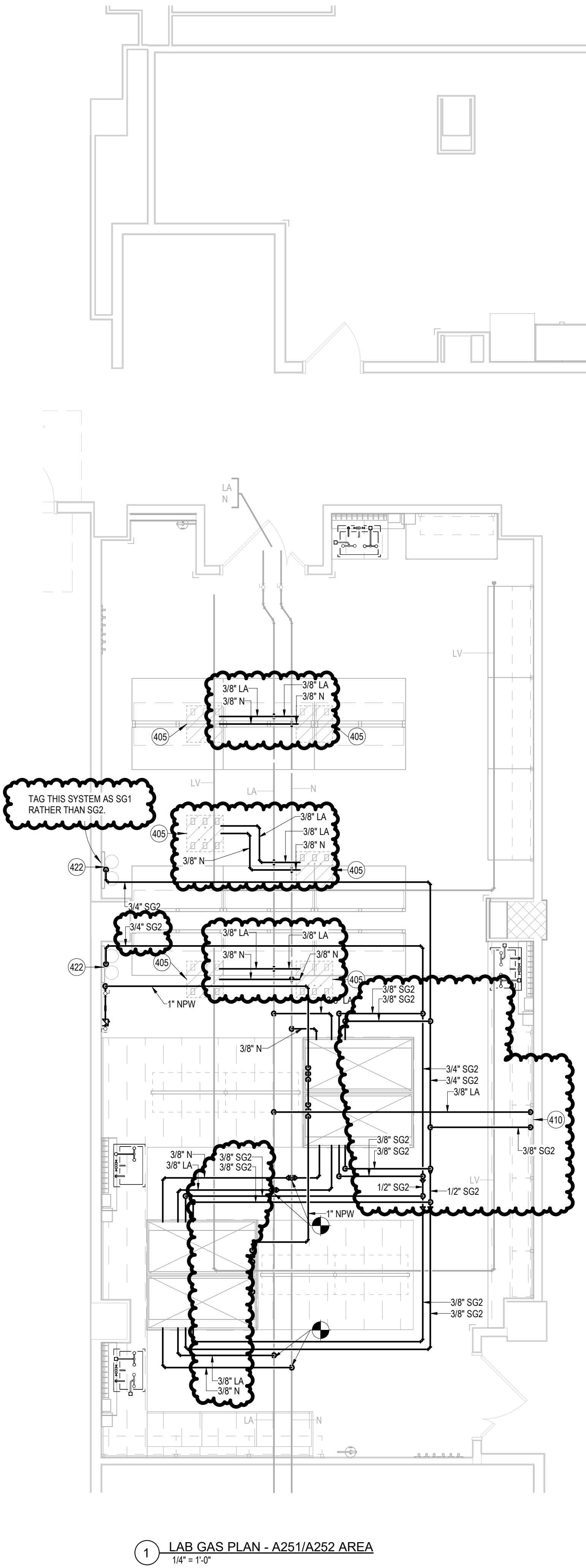
**BL072 CHEMISTRY -
PLUMBING PLAN - CH
102/104 AREA**

DATE JAN 1, 2017
BSALS PROJECT NO. 00360477

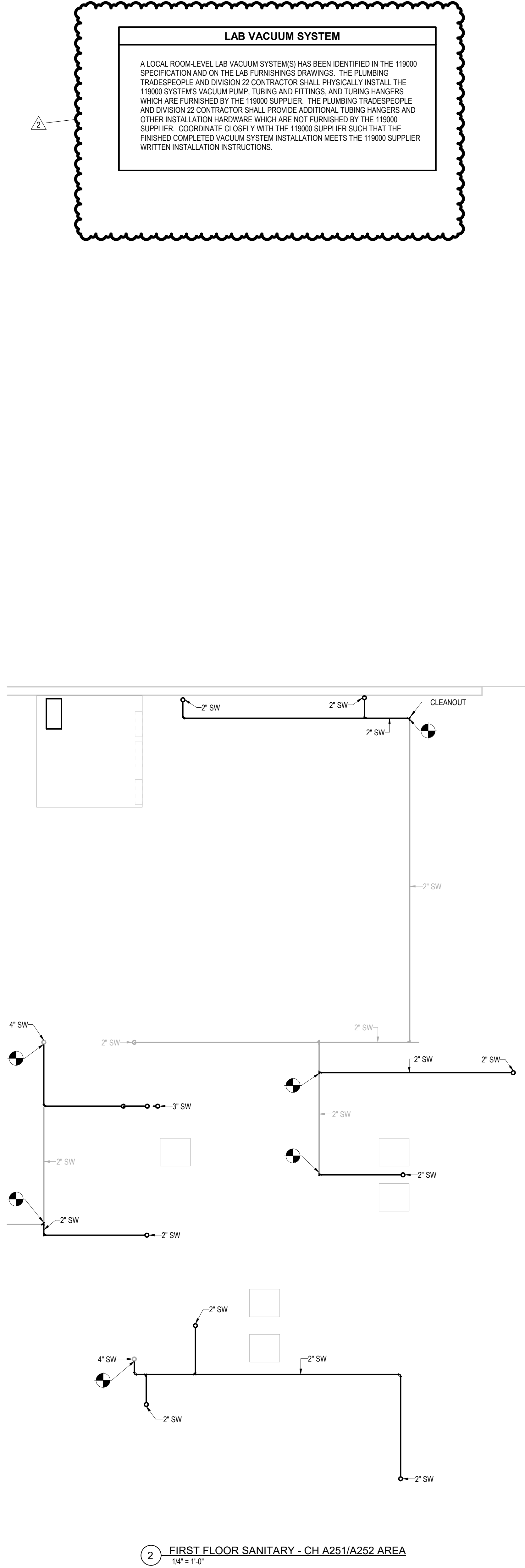
P211

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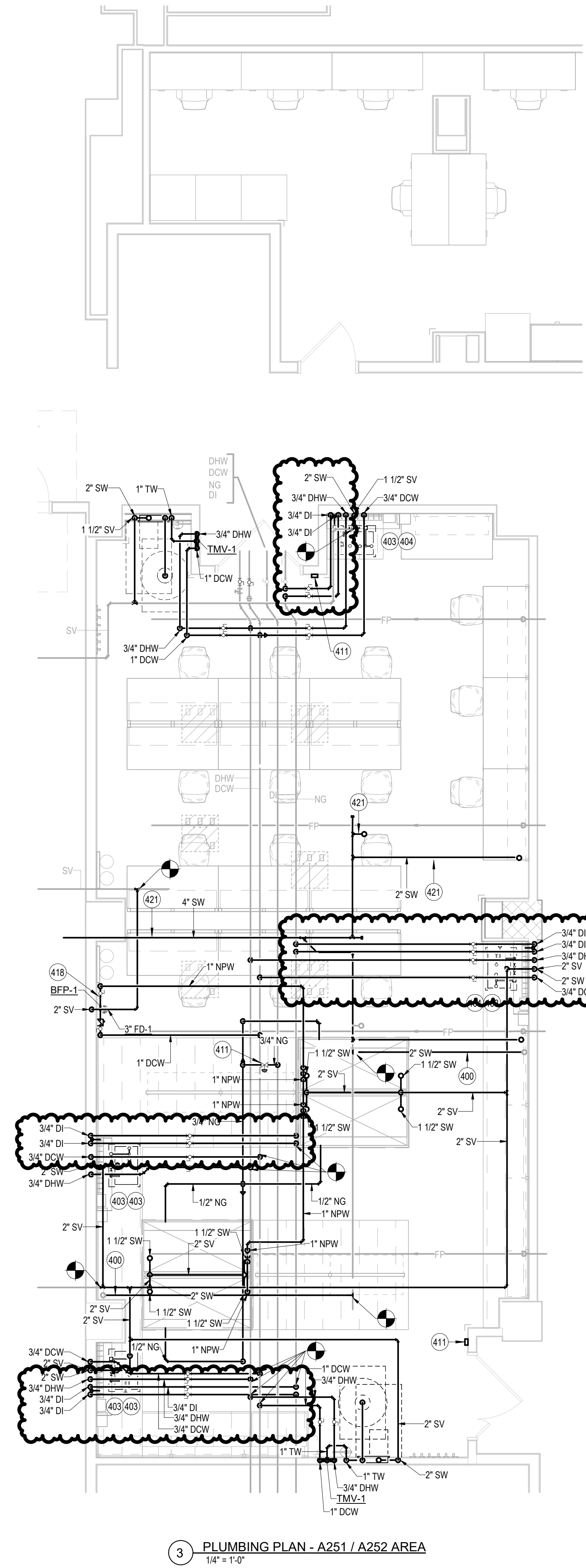


1 LAB GAS PLAN - A251/A252 AREA
1/4" = 1'-0"



2 FIRST FLOOR SANITARY - CH A251/A252 AREA
1/4" = 1'-0"

| X00 | PLAN NOTES |
|-----|---|
| 400 | REROUTE NEW WASTE PIPING TO AVOID MECHANICAL DUCT WORK AND HYDRONIC PIPING. |
| 403 | PROVIDE RO WATER, HOT/COLD WATER, SANITARY AND VENT. ROUTE VENT TO NEAREST VENT UP. |
| 404 | PROVIDE NEW THERMO MIXING VALVE UNDER SINK TO EMERGENCY EYE WASH. SET THERMO MIXING VALVE AT 72 DEGREE AND FLOW OF 3 GPM. |
| 405 | PROVIDE 3/4\"/> |
| 410 | PROVIDE NITROGEN AND LAB AIR WITH BALL VALVE 6'-6\"/> |



3 PLUMBING PLAN - A251 / A252 AREA
1/4" = 1'-0"

| X00 | PLAN NOTES |
|-----|--|
| 418 | PROVIDE 1\"/> |
| 421 | PROVIDE SPECIAL WASTE PIPING, FITTINGS, AND HANGERS FROM PENETRATION OF THIRD FLOOR SLAB ABOVE TO THE CONNECTION TO THE STACK. COORDINATE ROUTING WITH ALL NEW INSTALLATIONS (DUCTWORK, PIPING, CONDUIT, ETC.) AND ANY EXISTING INSTALLATIONS TO REMAIN. |
| 422 | PROVIDE A SINGLE STAINLESS SG TUBE RUNNING DOWN THE WALL AT THE TANKS. THE TUBE WOULD END AT 5'-6\"/> |

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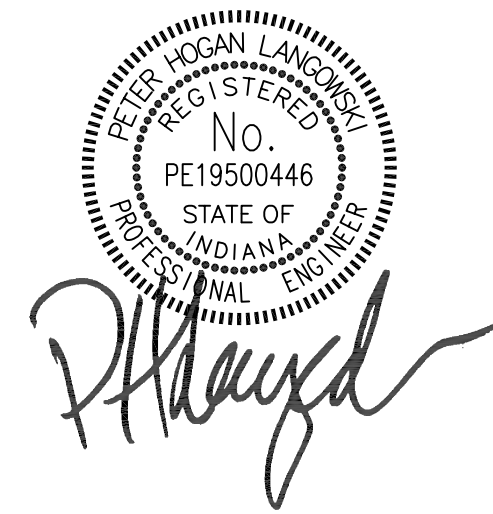
IUB RESEARCH LAB RENOVATIONS

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729 E 3RD ST., BLOOMINGTON, IN 47405
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JANUARY 9, 2025

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|------|----------|-------------|
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| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |



BL072 CHEMISTRY -
PLUMBING PLAN - CH
A251/A252 AREA

DATE JAN 5, 2017
BSALS PROJECT NO. 00360477

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LAB VACUUM SYSTEM

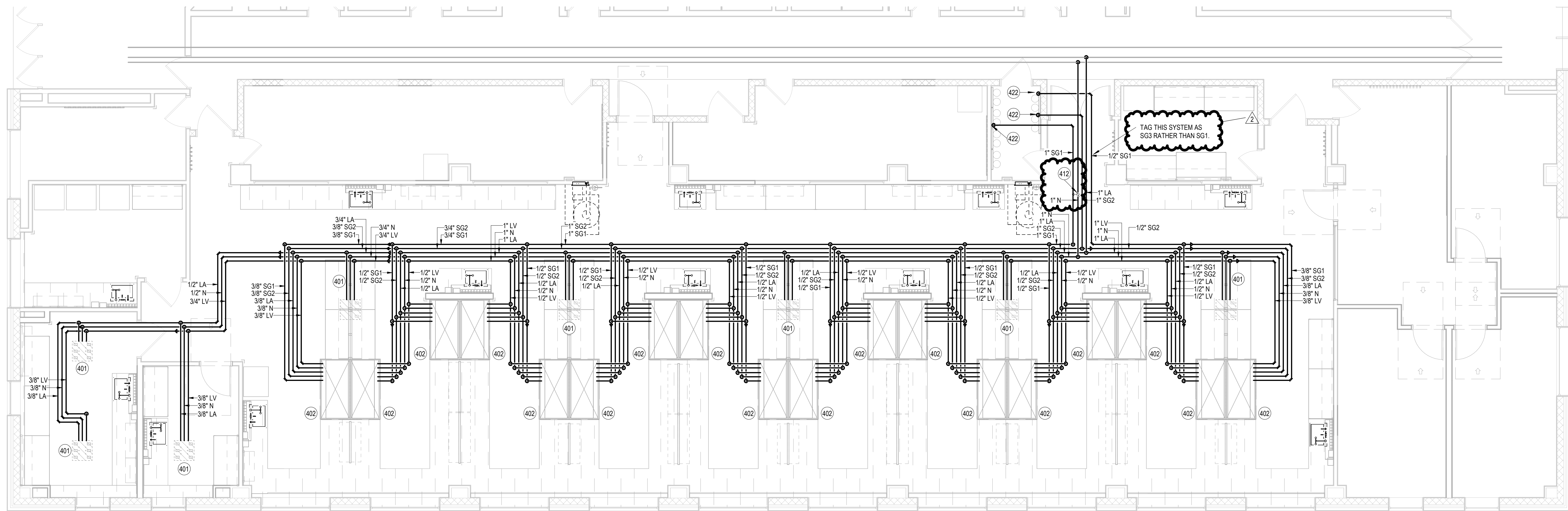
A LOCAL ROOM-LEVEL LAB VACUUM SYSTEM(S) HAS BEEN IDENTIFIED IN THE 119000 SPECIFICATION AND ON THE LAB FURNISHINGS DRAWINGS. THE PLUMBING TRADESPEOPLE AND DIVISION 22 CONTRACTOR SHALL PHYSICALLY INSTALL THE 119000 SYSTEM'S VACUUM PUMP, TUBING AND FITTINGS, AND TUBING HANGERS WHICH ARE FURNISHED BY THE 119000 SUPPLIER. THE PLUMBING TRADESPEOPLE AND DIVISION 22 CONTRACTOR SHALL PROVIDE ADDITIONAL TUBING HANGERS AND OTHER INSTALLATION HARDWARE WHICH ARE NOT FURNISHED BY THE 119000 SUPPLIER. COORDINATE CLOSELY WITH THE 119000 SUPPLIER SUCH THAT THE FINISHED COMPLETED VACUUM SYSTEM INSTALLATION MEETS THE 119000 SUPPLIER WRITTEN INSTALLATION INSTRUCTIONS.

PLAN NOTES

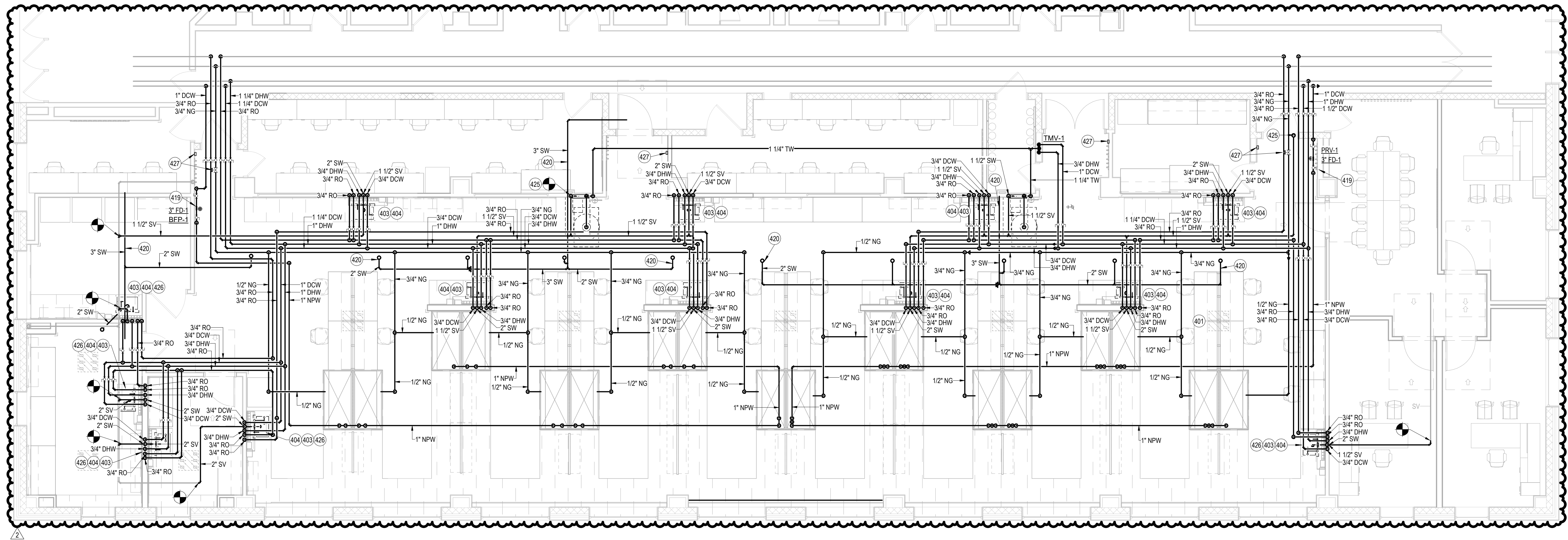
- 401 PROVIDE 3/8" NITROGEN AND 3/8" LAB AIR TO CEILING SERVICE PANEL.
402 PROVIDE COLD WATER, NATURAL GAS, NITROGEN, LAB AIR AND SPECIAL GAS TO FUME HOOD.
403 PROVIDE FLOW THERM PIPING VALVE UNDER SINK TO DEPRESSURE FIVE WASH SET.
404 PROVIDE ALCAT MAS FLOW METER MCS SERIES FOR NITROGEN GAS PIPING.
405 PROVIDE EMERGENCY SHUT-OFF BUTTON AND SOLENOID VALVE FOR NATURAL GAS. PROVIDE WIRE AND CONDUIT COMPLETE FROM POWER SOURCE TO BUTTON TO VALVE. COORDINATE POWER SOURCE VOLTAGE AND LOCATION WITH ELECTRICAL TRADES. MANUFACTURE BURNER - MODEL M850 AUXILIARY SHUT-OFF AND ASO GAS SHUT-OFF VALVE (ALUMINUM BODY, 2-WAY NORMALLY CLOSED). MOUNT BUTTON AT 4'-0" AFF AND PROVIDE WALL MOUNTED SIGNAGE "NATURAL GAS SHUTOFF". FOR A140 WIRE ALL FOUR AUXILIARY SHUT-OFFS AND BOTH SOLENOID VALVES TOGETHER SUCH THAT DEPRESSING ANY OF THE FOUR SHUTOFFS CLOSED BOTH OF THE SOLENOID VALVES.

PLAN NOTES

- 422 PROVIDE A SINGLE STAINLESS SG TUBE RUNNING DOWN THE WALL AT THE TANKS. THE TUBE WOULD END AT 5'-6" AFF WITH A BALL VALVE AT 6'-0" AFF AND A 0-100 PSIG PRESSURE GAUGE AT 6'-6" AFF. CYLINDERS AND PRESSURE REGULATORS AND HOSES ARE THEN OFOL.
425 CONNECT TO EXISTING 1 1/2" SV UP.
427 PROVIDE EMERGENCY SHUT-OFF BUTTON AND SOLENOID VALVE FOR NATURAL GAS. PROVIDE WIRE AND CONDUIT COMPLETE FROM POWER SOURCE TO BUTTON TO VALVE. COORDINATE POWER SOURCE VOLTAGE AND LOCATION WITH ELECTRICAL TRADES. MANUFACTURE BURNER - MODEL M850 AUXILIARY SHUT-OFF AND ASO GAS SHUT-OFF VALVE (ALUMINUM BODY, 2-WAY NORMALLY CLOSED). MOUNT BUTTON AT 4'-0" AFF AND PROVIDE WALL MOUNTED SIGNAGE "NATURAL GAS SHUTOFF". FOR A140 WIRE ALL FOUR AUXILIARY SHUT-OFFS AND BOTH SOLENOID VALVES TOGETHER SUCH THAT DEPRESSING ANY OF THE FOUR SHUTOFFS CLOSED BOTH OF THE SOLENOID VALVES.



1 LAB GAS PLAN - A140 AREA
3/16" = 1'-0"



2 PLUMBING PLAN - A140 AREA
3/16" = 1'-0"

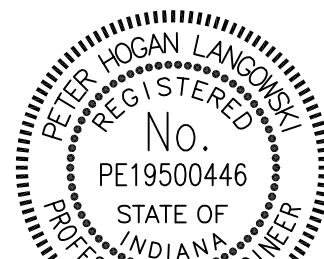
IUB
RESEARCH
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RENOVATIONS

BL072 CHEMISTRY
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729 E 3RD ST., BLOOMINGTON, IN 47405
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BL072 CHEMISTRY -
PLUMBING PLANS -
CH A140 AREA

DATE JAN 1, 2017
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P213

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JANUARY 9, 2025

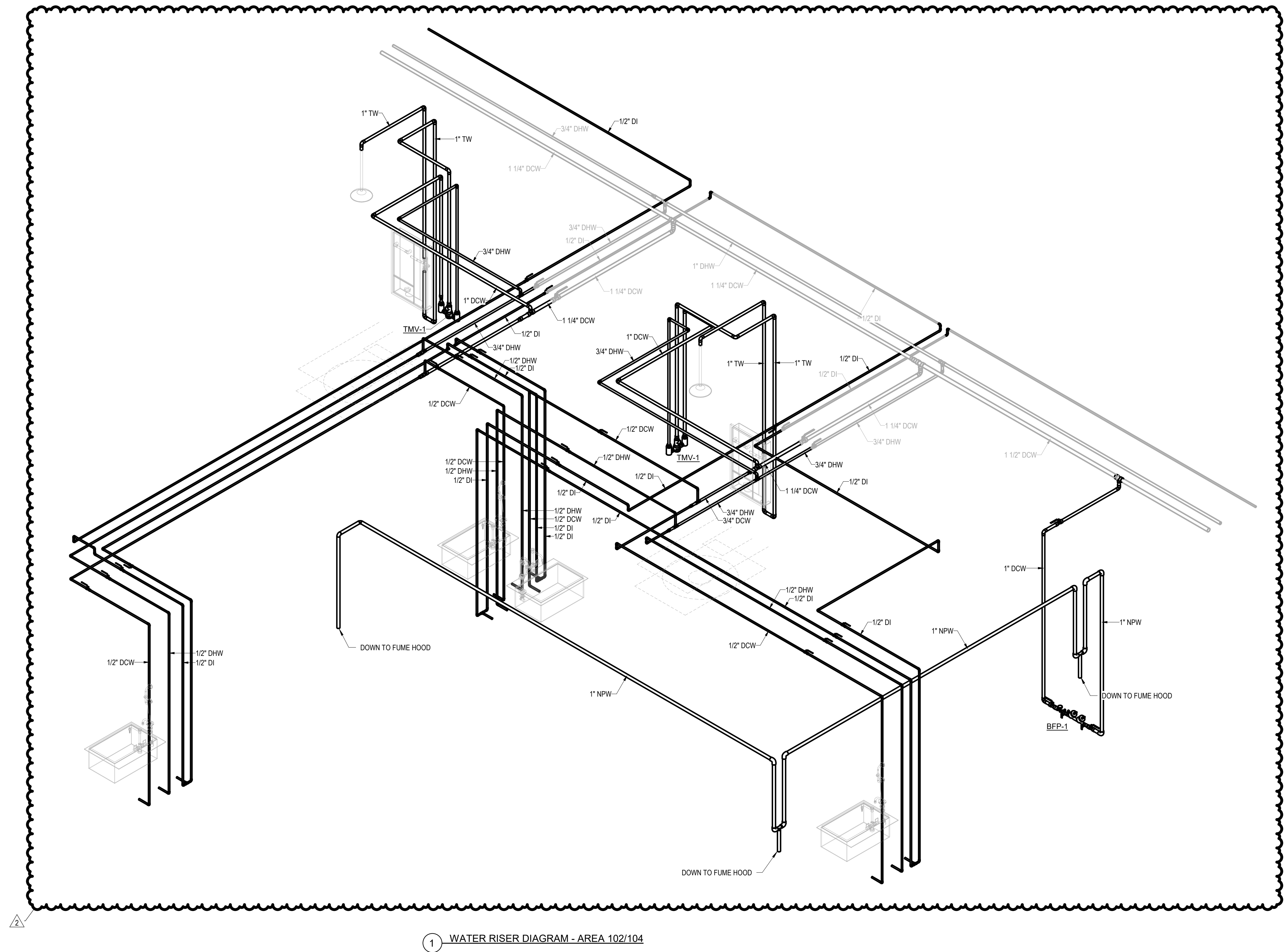
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| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |

BL072 CHEMISTRY -
WATER RISER DIAGRAM

| | |
|-------------------|-------------|
| DATE | JAN 1, 2017 |
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P402

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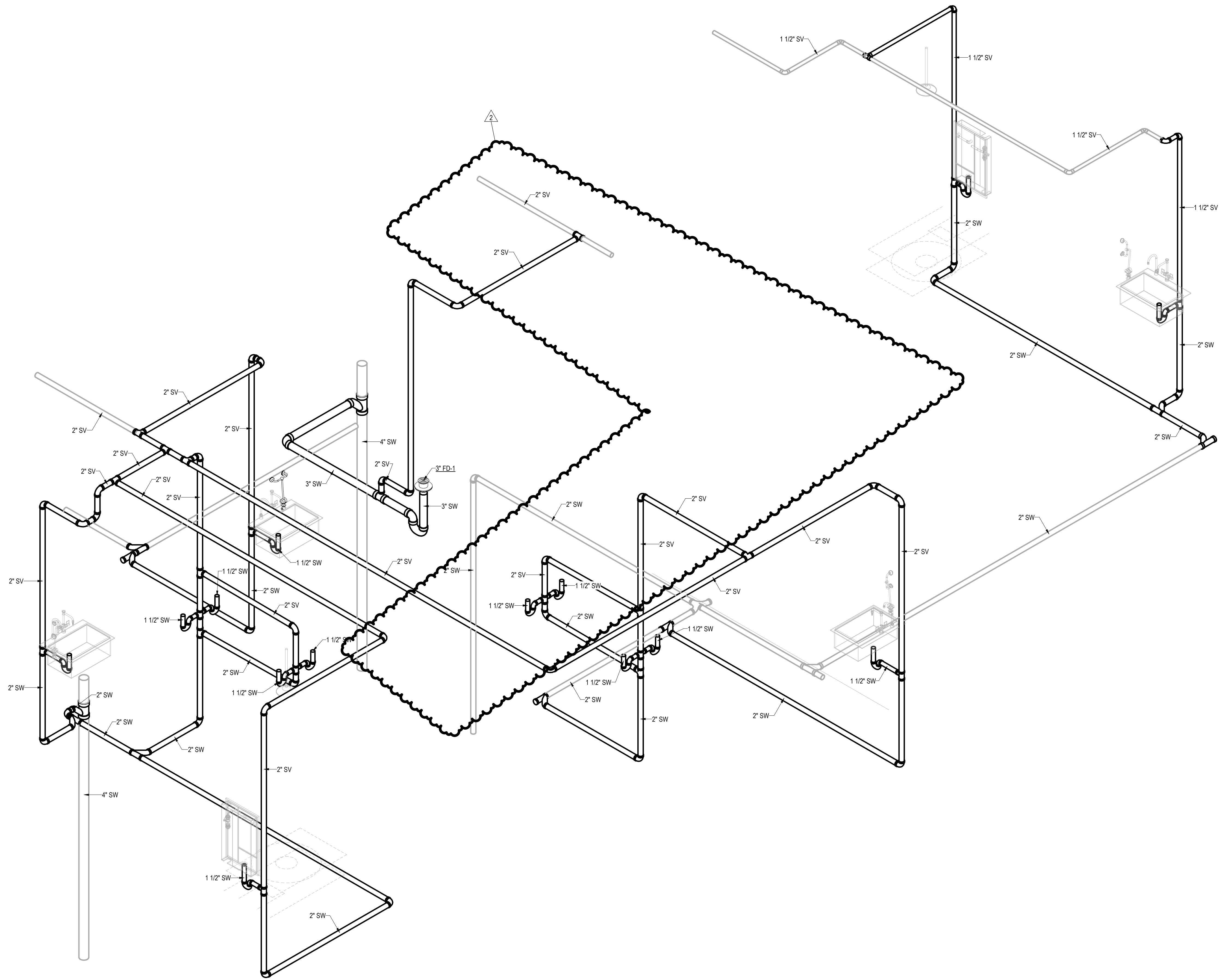


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BL027 SWAIN WEST
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BL070 SIMON HALL
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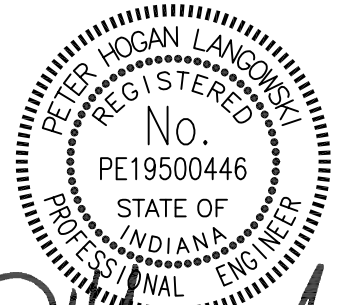
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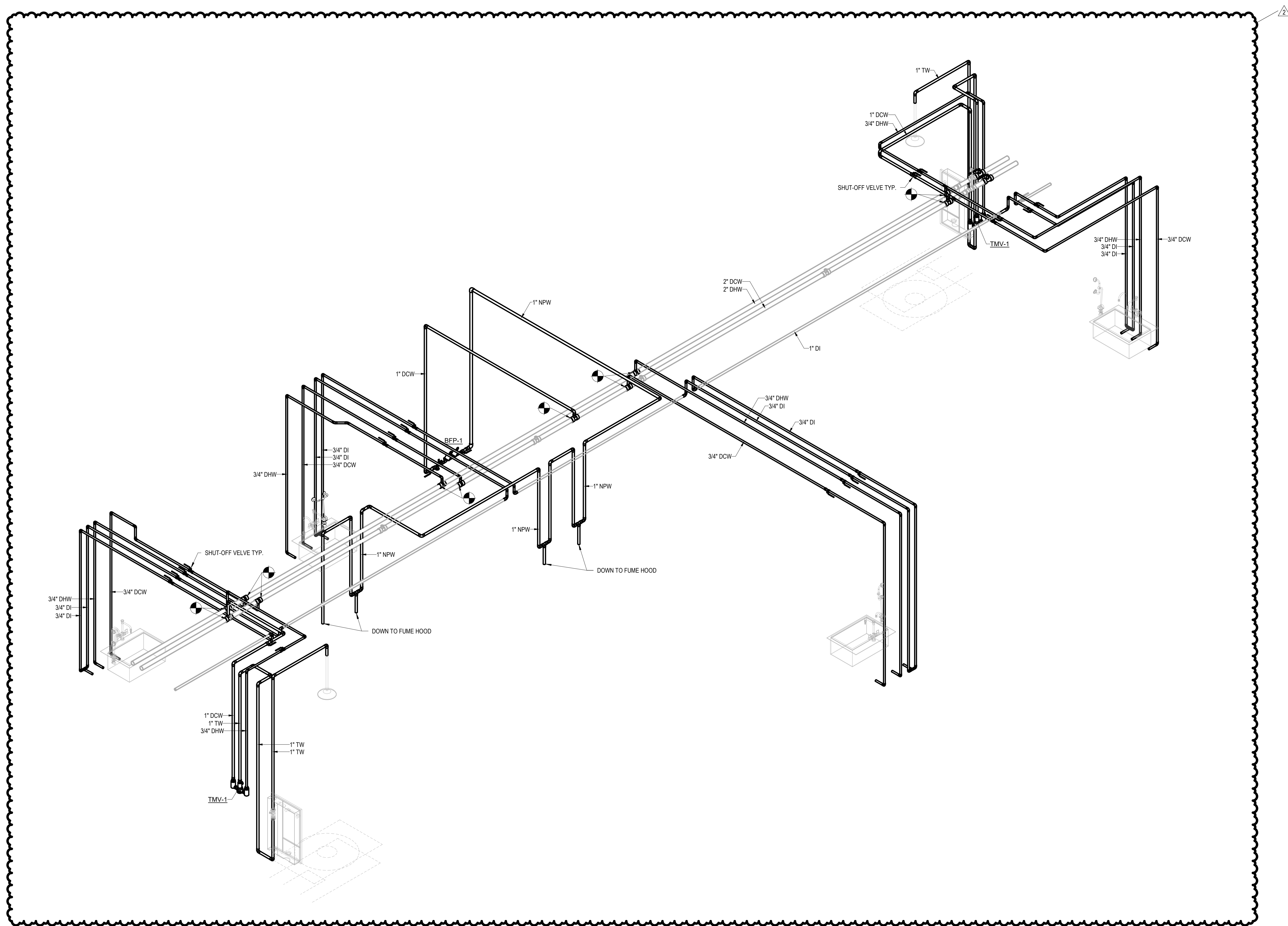
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| 3 | 01/29/25 | ADDENDUM 3 |
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1 SANITARY RISER DIAGRAM A251/A252

BL072 CHEMISTRY -
PLUMBING RISER DIAGRAMDATE JAN 1, 2017
BSALS PROJECT NO. 00360477

P403



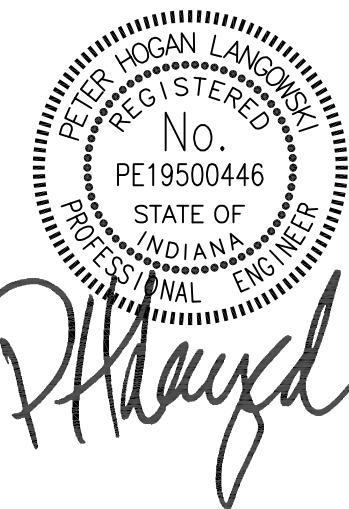
1 WATER RISER DIAGRAM - AREA A251/A25255

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800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
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BL072 CHEMISTRY -
PLUMBING RISER DIAGRAMDATE JAN 1, 2017
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P404

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800 E KIRKWOOD AVE, BLOOMINGTON, IN 47405
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JANUARY 9, 2025

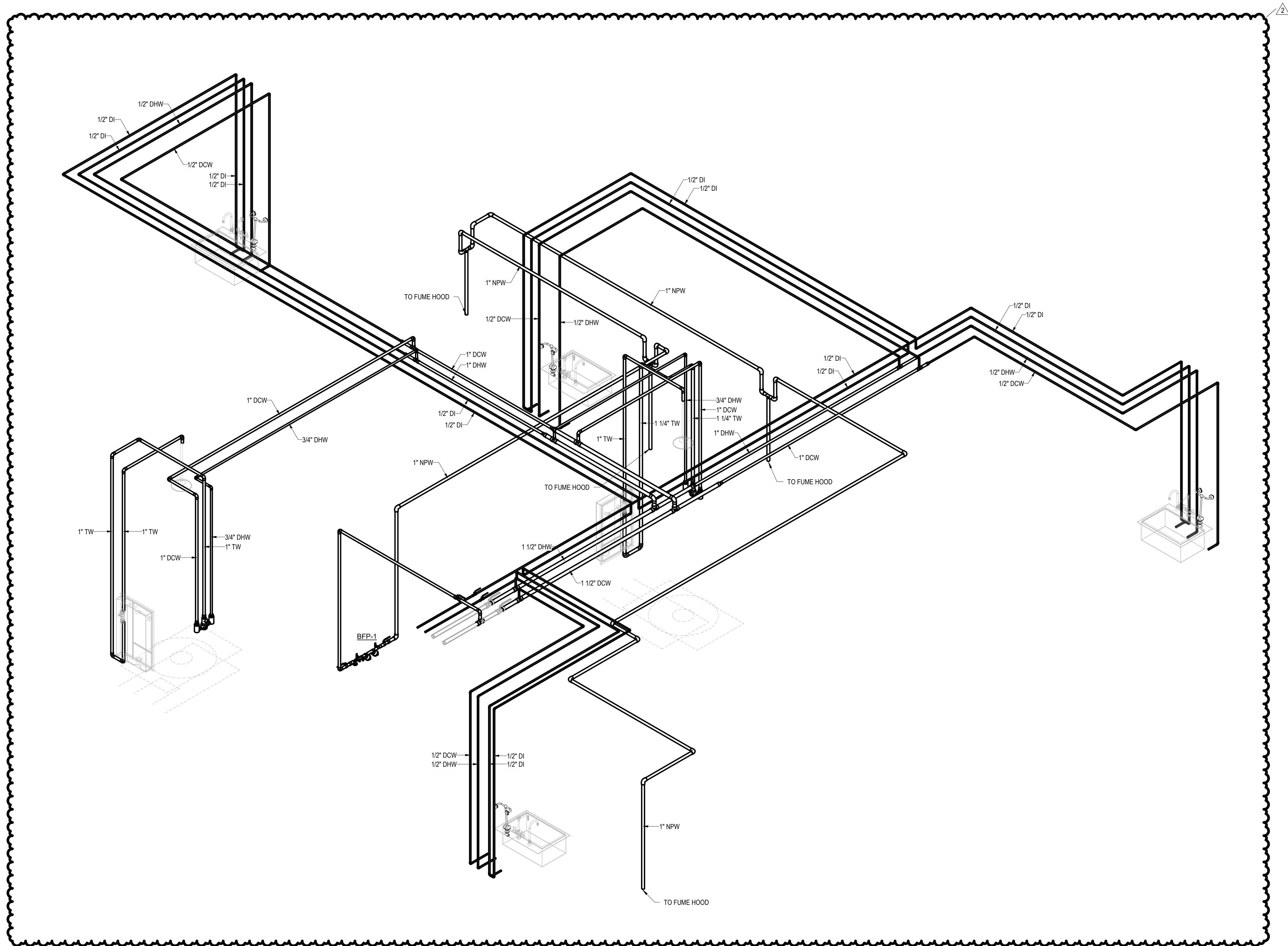
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| 3 | 01/29/25 | ADDENDUM 3 |
| 2 | 01/27/25 | ADDENDUM 2 |
| 1 | 01/17/25 | ADDENDUM 1 |



| | |
|-------------------|-------------|
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1 WATER RISER DIAGRAM - AREA 103/105

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BL027 SWAIN WEST
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BL070 SIMON HALL
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JANUARY 9, 2025

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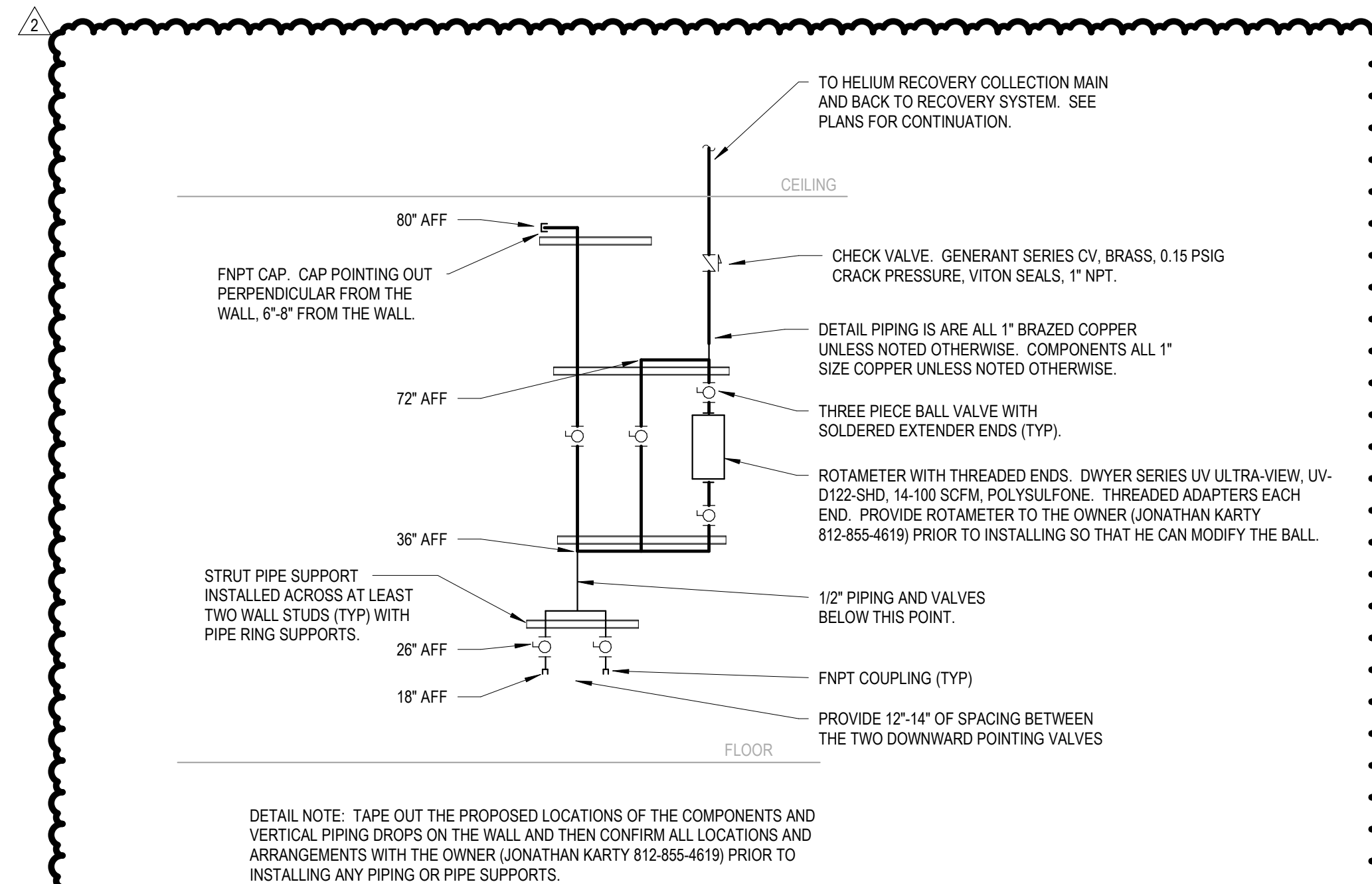


Jonathan L. Laxman

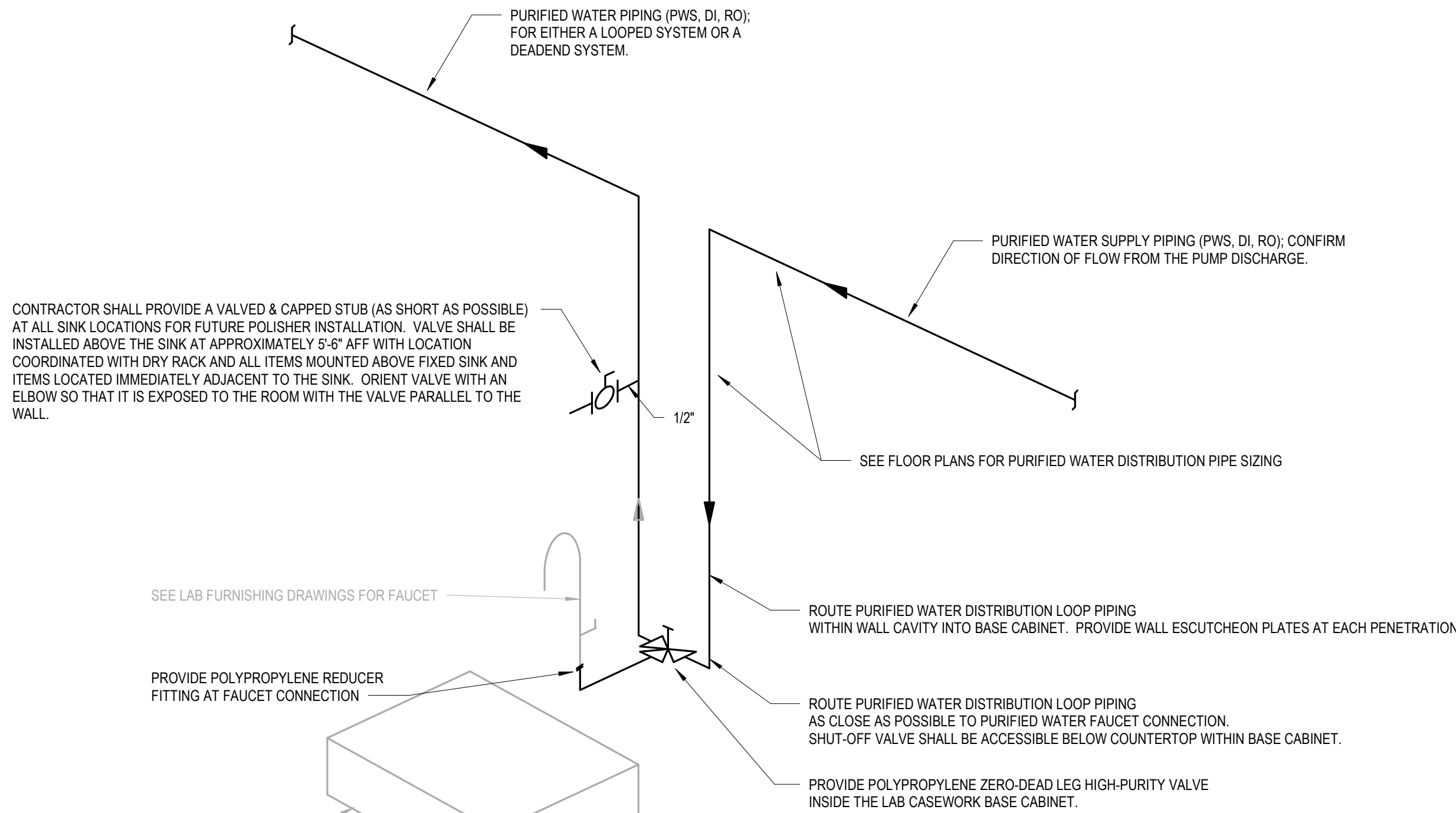
PLUMBING DETAILS

DATE JAN 1, 2017
BSALS PROJECT NO. 00360477

P501



2 HELIUM RECOVERY MANIFOLD DETAIL
NO SCALE



1 PURE WATER PIPING DROP AT FIXTURE DETAIL
NO SCALE