

Approved

State of Idaho

DOPL

PA#: 1623597

Date: 6/6/2025

These plans are approved contingent on the compliance with the mark-ups and notes applied.

This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.

DOPL

DIVISION OF OCCUPATIONAL & PROFESSIONAL LICENSES

These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found, to be, substantially compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector.

See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPL) plan review notes and approved, stamped plans on site.

Construction Safeguards
Construction safeguards shall be required for any and all demolition and or construction to ensure public safety. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure. All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.

Sprinkler Note
In tenant renovations and reconfigurations the installation, deletion, or movement of any walls may affect the sprinkler performance. A sprinkler evaluation by a licensed sprinkler contractor should be made to ensure that any modification to the sprinkler system is warranted. Any alteration deletions or additions to the system shall be by a licensed sprinkler contractor and be approved by the Fire Marshal through plan review and inspection.

LCSC MLT LAB TECH RENOVATION

LEWIS-CLARK STATE COLLEGE | SAM GLENN COMPLEX 500 4TH ST

PROJECT TEAM



Architect
KNIT
512 S Main Street
Moscow, Idaho 83843
Phone: (208) 410-0402



MEP Engineer
RESOLUT
101 W Cataldo Ave
Suite 205
Spokane, WA 99201
Phone: (509) 919-3403

PROJECT NARRATIVE

DESCRIPTION

APPROXIMATELY 2,040 SF REMODEL OF EXISTING CLASSROOMS LOCATED AT LEWIS CLARK STATE COLLEGE IN THE SAM GLENN BUILDING LEVEL 1 ROOMS 125 AND 126. SCOPE OF WORK TO INCLUDE NEW FINISHES ON THE FLOOR, CEILING, WALLS WITH MECHANICAL PLUMBING AND ELECTRICAL UPGRADES. SMALL AMOUNTS OF DEMO WILL OCCUR THROUGHOUT THE PROJECT.

OCCUPANCY AND LOADS WILL REMAIN AS EXISTING. THERE WILL BE NO LIFE SAFETY OR STRUCTURAL ALTERATION. THERE ARE NO BUILDING ENVELOPE CHANGES.

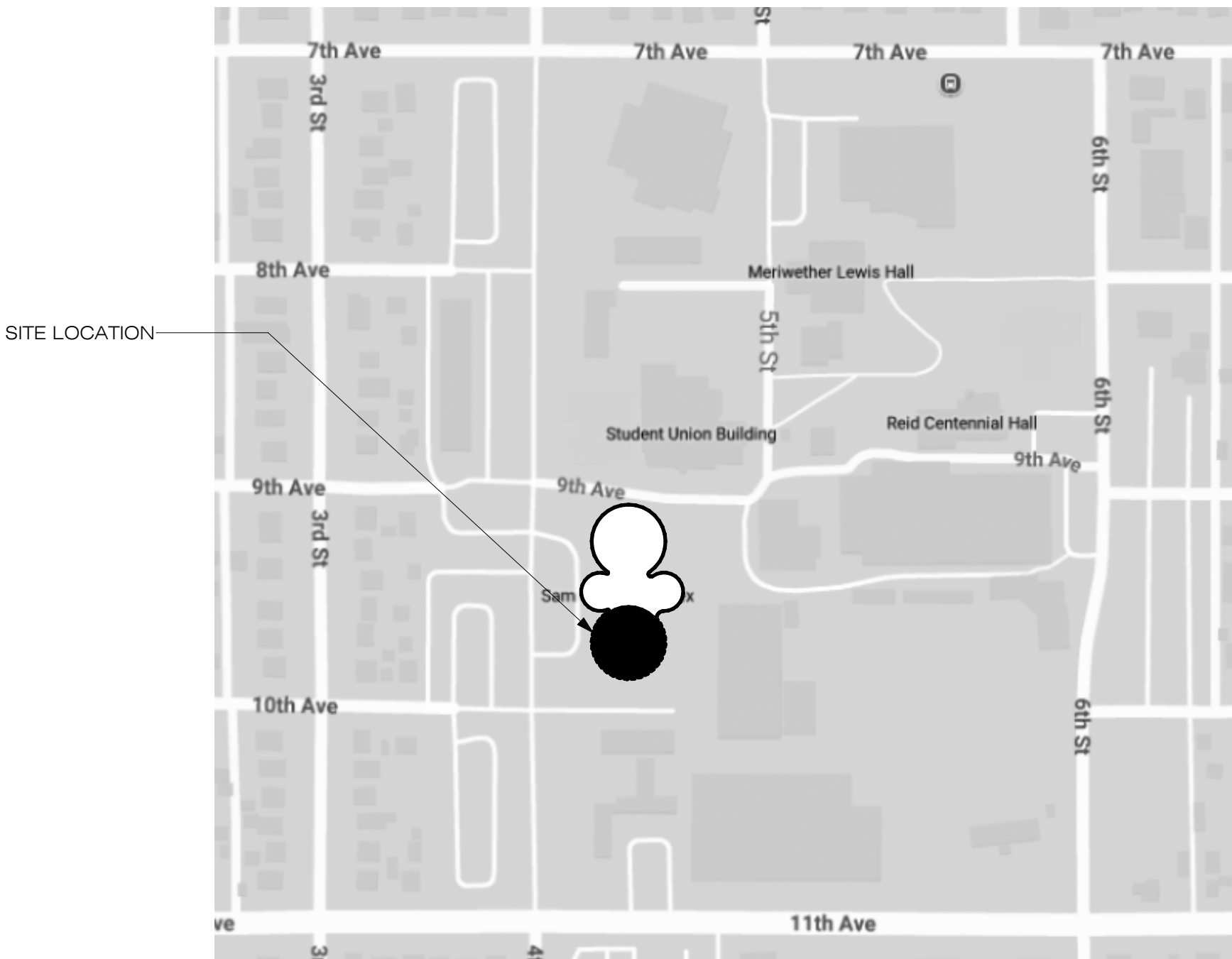
LIST OF ALTERNATES:

ALTERNATE NO.1: CUSTOM STUDENT WORK BENCH CASEWORK IN THE MLT LAB

ALTERNATE NO.2: UPPER AND LOWER CABINETS IN THE MICRO/EQUIP ROOM

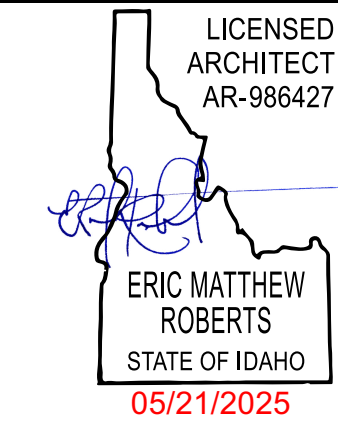
*BASE BID TO ONLY BE COUNTER TOP AND SUPPORTS. SEE DETAIL 1/A12-10

VICINITY MAP



ISSUE DATE: 05.20.2025

REV DATE COMMENT



COVER SHEET

LCSC MLT LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

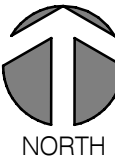
TITLE

PROJECT

CLIENT

JOB NO: 240128

G0-00



Approved
State of Idaho

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APPLICABLE BUILDING CODES

PA#: 1623597
Date: 6/6/2025

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APPLICABLE BUILDING CODES

BUILDING CODE:
EXISTING BUILDING CODE:
ELECTRICAL CODE:
MECHANICAL CODE:
FIRE CODE:
PLUMBING CODE:
ENERGY CODE:
CURRENT CODE: 2018 IBC

2018 IBC
2018 IEBC
2017 NEC
2018 IMC
2015 UPC
2018 IFC
2018 IECC
2009 A-117.1

GROUP B

NONE REQUIRED

NONE

TYPE III B

CLASS D

YES

YES

FIRE RESISTANCE REQUIREMENTS PER IBC SECTION 601

STRUCTURAL FRAME
BEARING WALLS - EXTERIOR
BEARING WALLS - INTERIOR
NON BEARING WALLS
FLOOR CONSTRUCTION
ROOF CONSTRUCTION

0 HR
2 HR
0 HR
0 HR
0 HR
0 HR

PROJECT DESCRIPTION

APPROXIMATELY 2,040 SF REMODEL OF EXISTING CLASSROOMS LOCATED AT LEWIS CLARK STATE COLLEGE IN THE SAM GLENN BUILDING LEVEL 1 ROOMS 125 AND 126. SCOPE OF WORK TO INCLUDE NEW FINISHES ON THE FLOOR CEILING, WALLS WITH MECHANICAL PLUMBING AND ELECTRICAL UPGRADES. SMALL AMOUNTS OF DEMO WILL OCCUR THROUGHOUT THE PROJECT.

2023 NEC with Idaho Amendments.

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LS1-10	CODE AND EXITING PLAN	
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05 ARCHITECTURAL DEMO		
AD2-10	DEMOLITION FLOOR PLAN LEVEL 1 & RCP	
06 ARCHITECTURAL NEW CONSTRUCTION		
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ISSUE DATE: 05.20.2025

REV DATE COMMENT

LICENSED ARCHITECT
AR-866427



ERIC MATTHEW ROBERTS
STATE OF IDAHO
05/21/2025

CODE ANALYSIS AND DRAWING INDEX

LCSC MLT LAB
Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

G0-01

Approved

State of Idaho

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PA#: 1623597

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Division of Occupational Professional Licenses

DOPL

DIVISION 02 - EXISTING CONDITIONS

SECTION 020442

REMOVAL AND SALVAGE OF PERIOD CONSTRUCTION MATERIALS

PART 1 GENERAL

1.01 SUBMITTALS

Work Plan, Detail, and/or construction for each type of operation of structures to be demolished or reconstructed work, including detailed drawings and specifications, to be used and sequence of operations. The work plan shall include the following:

Extent of demolition, removal sequences, temporary and permanent bracing and shoring and location and construction of barricades and fences. Ensure coordination with other work. Coordinate with the utility disconnect and reconnection of utility services project.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

GENERAL PROCEDURES AND PROJECT CONDITIONS

1.01 GENERAL PROCEDURES AND PROJECT CONDITIONS

DEBRIS AND WASTE REMOVAL

1.01 DEBRIS AND WASTE REMOVAL

END OF SECTION

DIVISION 08 - OPENINGS

SECTION 081213

HOLLOW METAL FRAMES

PART 1 GENERAL

1.01 SUBMITTALS

DELIVERY, STORAGE, AND HANDLING

1.01 DELIVERY, STORAGE, AND HANDLING

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

HOLLOW METAL DOOR FRAMES WITH APPLIED CASINGS

1.01 HOLLOW METAL DOOR FRAMES WITH APPLIED CASINGS

END OF SECTION

SECTION 081416

FLUSH WOOD DOORS

PART 1 GENERAL

1.01 SUBMITTALS

QUALITY ASSURANCE

1.01 QUALITY ASSURANCE

WARRANTY

1.01 WARRANTY

PART 2 PRODUCTS

2.01 DOORS AND PANELS

B. Interior Doors: 1-3/4 inches (44 mm) thick unless otherwise indicated; flush construction.

1. Provide solid core doors at each location.

2. Fire Rated Doors: Tested to ratings indicated on drawings in accordance with UL, ICC - Positive Pressure, Underwriters Laboratories Inc (UL) or Intertek/Warnock Hersey (WH) labeled.

3. High pressure decorative laminate (HPDL) finish as indicated on drawings.

2.02 DOOR AND PANEL CORES

1. Non-Rated Solid Core and 20 Minute Rated Doors: Type staved lumber core (S.L.C.) plies and faces as indicated per manufacturer's instructions.

2. Fire-Rated Doors: Mineral core type, with a fire resistant composite core (FD), plies and faces as indicated above, with core blocking as required to provide adequate anchorage of hardware without through-bolting.

2.03 DOOR FACINGS

1. High Pressure Decorative Laminate (HPDL) Facing for Fire Doors: NEMA LD 3, VGS, color(s) as indicated; satin finish.

2. High Pressure Decorative Laminate (HPDL) Facing for Non-Fire-Rated Doors: NEMA LD 3, VGS, color(s) as indicated; satin finish.

2.04 DOOR CONSTRUCTION

1. Fabricate doors in accordance with door quality standard specified.

2. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

3. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

2.05 FINISHES - WOOD VENEER DOORS

1. Finish work in accordance with AIA/AIA/MAC/MI (AWS) or AIA/MAC/MI (NAAWS), Section 5 - Finishing for grade specified and as follows:

2.06 ACCESSORIES

1. Door Window Frames: Door window frames with glazing securely fastened within door opening.

2. Frame Material: 18 gauge, 0.0478 inch (1.21 mm), galvanized steel.

3. Glazing Stops: Wood, of same species as door facing, butted corners; prepared for countersink style tamper proof screws.

PART 3 EXECUTION

1.01 INSTALLATION

END OF SECTION

DIVISION 09 - FINISHES

SECTION 092116

GYPSPUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 SUBMITTALS

PART 2 PRODUCTS

2.01 GYPSPUM BOARD ASSEMBLIES

2.02 METAL FRAMING MATERIALS

1. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in AISI S220 or equivalent.

2. Nonstructural Framing System Components: AISI S220; galvanized steel sheet, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/120 or 5 pcf (L/120 at 240 Pa).

3. Studs: C-shaped with knurled or embossed faces.

4. Runners: U-shaped, sized to match studs.

5. Furring Members: Hat-shaped sections, minimum depth of 7/8 inch (22 mm).

6. Furring Members: U-shaped sections, minimum depth of 3/4 inch (19 mm).

7. Furring Members: Zee-shaped sections, minimum depth of 1 inch (25 mm).

8. Resilient Furring Channels: Single or double leg configuration; 1/2 inch (13 mm) channel depth.

9. Resilient Sound Isolation Clips: Steel resilient clips with molded rubber isolators, attaches to framing; improves noise isolation performance of wall and floor-ceiling assemblies.

10. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection and prevent rotation of studs while maintaining structural performance of partition.

11. Structural Performance: Maintain lateral load resistance and vertical movement capacity and stiffness by applicable code, when evaluated in accordance with AISI S100.

2.03 BOARD MATERIALS

1. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.

2. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.

3. Glass mat faced gypsum panels, as defined in ASTM C1658/C1658M, suitable for paint finish, of the same core type and thickness may be substituted for paper-faced board.

4. AI Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.

5. Thickness:

a. Vertical Surfaces: 5/8 inch (16 mm).

b. Ceilings: 5/8 inch (16 mm).

6. Gypsum Wallboard - Moisture & Mold Resistant: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.

7. Glass mat faced gypsum panels, as defined in ASTM C1658/C1658M, suitable for paint finish, of the same core type and thickness may be substituted for paper-faced board.

8. Unfaced fiber-reinforced gypsum panels as defined in ASTM C1278/C1278M, suitable for paint finish, of the same core type and thickness may be substituted for paper-faced board.

9. AI Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.

10. Thickness:

a. Vertical Surfaces: 5/8 inch (16 mm).

b. Ceilings: 5/8 inch (16 mm).

11. Backing Board For Wet Areas: One of the following products:

1. Application: Surfaces behind tile in wet areas, including tub and shower surrounds and shower ceilings.

2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.

3. Glass Mat Faced Board: Coated glass mat water-resistant gypsum backing panel as defined in ASTM C1178/C1178M.

4. Backing Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square cut.

5. Application: Vertical surfaces behind thinsit tile, except in wet areas.

6. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.

7. AI Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.

8. Type X Thickness: 5/8 inch (16 mm).

9. Type C Thickness: 5/8 inch (16 mm).

10. Regular Board Thickness: 5/8 inch (16 mm).

7. Edges: Tapered.

8. Exterior Sheathing Board: Sizes to minimize joints in place; ends square cut.

9. Application: Exterior sheathing, unless otherwise indicated.

10. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.

11. Glass Mat Faced Sheathing: Glass mat faced gypsum substrate as defined in ASTM C1177/C1177M.

12. AI Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.

13. Core Type: Regular and Type X, as indicated.

14. Type X Thickness: 5/8 inch (16 mm).

15. Regular Board Thickness: 5/8 inch (16 mm).

16. Edges: Square.

2.04 GYPSPUM BOARD ACCESSORIES

1. Acoustic Insulation: ASTM C665; preformed mineral-fiber, friction fit type, unfaced; thickness as required for STC.

2. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.

3. Beads, Joint Accessories, and Other Trim: ASTM C1047, galvanized steel or rolled zinc, unless noted otherwise.

4. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.

5. High Build Drywall Surface: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.

6. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches (0.84 mm) in Thickness and Wood Members: ASTM C1002;

self-piercing tapping screws, corrosion-resistant.

7. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch (0.84 to 2.84 mm) in Thickness: ASTM C954; steel drill screws, corrosion-resistant.

8. Adhesive for Attachment to Wood, ASTM C557 and Metal:

PART 3 EXECUTION

3.01 SHAFT WALL INSTALLATION

3.02 FRAMING INSTALLATION

1. Metal Framing: Install in accordance with ASTM C1007/AISI S220 and manufacturer's instructions.

3.03 ACOUSTIC ACCESSORIES INSTALLATION

1. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and light to items passing through partitions.

2. Fire-Resistance-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.

3. Exterior Sheathing: Comply with ASTM C1280. Install sheathing vertically, with edges butted tight and ends occurring over firm bearing.

3.04 BOARD INSTALLATION

1. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

2. Fire-Resistance-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.

3. Exterior Sheathing: Comply with ASTM C1280. Install sheathing vertically, with edges butted tight and ends occurring over firm bearing.

3.05 JOINT TREATMENT

1. Glass Mat Faced Gypsum Board and Exterior Glass Mat Faced Sheathing: Use fiberglass joint tape, embed and finish with setting type joint compound.

2. Paper Faced Gypsum Board: Use paper joint tape, embed with drying type joint compound and finish with drying type joint compound.

3. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:

1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.

2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.

3. Level 3: Walls to receive textured wall finish.

4. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.

5. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

3.06 TEXTURE FINISH

1. Apply finish texture coating by means of spraying apparatus in accordance with manufacturer's instructions.

END OF SECTION

SECTION 095100

ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SUBMITTALS

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

2.02 ACOUSTICAL UNITS

1. Acoustical Panels: Painted mineral fiber, with the following characteristics:

1. Classification: ASTM E1264 Type III.

a. Form: 2, water felled.

2. Size: 24 by 48 inches (610 by 1219 mm).

3. Thickness: 1/2 inch (19 mm).

4. Light Reflectance: 79 percent, determined in accordance with ASTM E1264.

5. Ceiling Attenuation Class (CAC): 35, determined in accordance with ASTM E1264.

6. Panel Edge: Square.

7. Color: White.

8. Suspension System: Exposed grid.

2.03 SUSPENSION SYSTEM(S)

1. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.

2. Materials:

a. Steel Grid: ASTM A653/A653M, G30 coating, unless otherwise indicated.

B. Exposed Suspension System: Hot-dipped galvanized steel grid with steel cap.

3. Structural Classification: Heavy-duty, when tested in accordance with ASTM C635/C635M.

4. Finish: Baked enamel.

5. Color: White.

2.04 ACCESSORIES

1. Support Channels and Hangers: Galvanized steel, size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

2. Hanger Wire: 12 gauge, 0.08 inch (2 mm) galvanized steel wire.

3. Perimeter Moldings: Same metal and finish as grid.

4. Size: As required for installation conditions and specified Seismic Design Category.

PART 3 EXECUTION

3.01 PREPARATION

3.02 HANGER WIRE SUPPORT REQUIREMENTS

1. Structural Attachment Requirements

2. Attachment to roof deck, metal decking, or non-structural framing is prohibited.

3. Supplemental Structural Support

1. Where direct attachment to the primary structure is not feasible, provide supplemental steel angles, unistrut channels, or structural framing members for proper hanger wire support.

2. All supplemental support members shall be:

a. Minimum 1-1/2" x 1-1/2" x 12-gauge steel angles or 1-5/8" Unistrut channel.

b. Spaced between structural members at intervals not exceeding 48 inches on center.

c. securely fastened to the primary structure using welds, mechanical fasteners, or approved expansion anchors.

3. Hanger Wire Installation

a. Hanger wires shall be 12-gauge galvanized wire (or stronger where required) and installed plumb within 1 in 8 deviation.

b. Wires shall be wrapped a minimum of three (3) full turns around the supporting structure or supplemental framing member.

c. Hanger wires shall be spaced at a maximum of 4'-0" on center along main runners.

d. Seismic bracing shall be provided in accordance with ASTM E580 and ASCE 7-16, including four-way spay wires where required.

3.03 INSTALLATION - SUSPENSION SYSTEM

1. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.

2. Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size.

3.04 INSTALLATION - ACOUSTICAL UNITS

1. Install acoustical units in accordance with manufacturer's instructions.

2. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

END OF SECTION

SECTION 096500

RESILIENT FLOORING

PART 1 GENERAL

1.01 SUBMITTALS

PART 2 PRODUCTS

2.01 TILE FLOORING

END OF SECTION

DIVISION 12 - FURNISHINGS

SECTION 123100

MANUFACTURED METAL CASEWORK

PART 2 PRODUCTS

1.01 FABRICATION

END OF SECTION

SECTION 123553.19

WOOD LABORATORY CASEWORK

PART 2 PRODUCTS

1.01 WOOD LABORATORY CASEWORK

1.02 COUNTERTOPS

1. Countertops: See Section 123600.

2. Countertops:

1. Types: More than one type is required, as specified below. See drawings for location of each type of countertop.

2. Epoxy Resin Countertops: Filled epoxy resin molded into homogeneous, non-porous sheets; no surface coating and color and pattern consistent throughout thickness; with integral or adhesively seamed components.

a. Flat Surface Thickness: 1 inch (25 mm), nominal.

b. Surface Finish: Smooth, non-glare.

c. Color: Black.

d. Back and End Splashes: Same material, same thickness; separate for field attachment.

e. Fabricate in accordance with AIA/AIA/MAC/MI (AWS) or AIA/MAC/MI (NAAWS), Section 11 - Countertops, Premium Grade.

f. Fabricate in accordance with manufacturer's standard requirements.

END OF SECTION

PART 2 PAINTS AND FINISHES - GENERAL

1. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.

2. Where MPI paint numbers are specified, provide products listed in Master Painters Institute Approved Product List, current edition available at www.paintinfo.com, for specified MPI categories, except as otherwise indicated.

3. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.

4. Provide materials that are compatible with one another and the substrates indicated under service and application, as demonstrated by manufacturer based on testing and field experience.

5. Supply each paint material in quantity required to complete entire projects work from a single production run.

6. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

7. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application.

8. Colors: As indicated on drawings.

2.03 PAINT SYSTEMS - INTERIOR

1. Paint I-OP - Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board, concrete, concrete masonry units, brick, wood, plaster, uncoated steel, shop primed steel, galvanized steel, aluminum, and acoustical ceilings.

2. Two top coats and one coat primer.

3. Top Coat(s): Interior Latex, MPI #43, 44, 52, 53, 54, or 114.

4. Primer: As recommended by top coat manufacturer for specific substrate.

2.04 PRIMERS

1. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.

2. Alkali Resistant Water Based Primer, MPI #3.

3. Interior Latex Primer Sealer, MPI #50.

4. Interior Water Based Primer for Galvanized Metal, MPI #134 or #134 X-Green.

5. Bonding Primer, Water Based, MPI #17.

PART 3 EXECUTION

3.01 EXAMINATION

1. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:

1. Gypsum Wallboard: 12 percent.

2. Plaster and Stucco: 12 percent.

3. Masonry, Concrete, and Concrete Masonry Units: 12 percent.

4. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

1. Clean surfaces thoroughly and correct defects prior to application.

2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 APPLICATION

1. Apply primer to all surfaces unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

2. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to top coat manufacturers.

3. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

4. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

5. Apply coatings at spread rate required to achieve manufacturer's recommended dry film thickness.

END OF SECTION

DIVISION 12 - FURNISHINGS

SECTION 123100

MANUFACTURED METAL CASEWORK

PART 2 PRODUCTS

1.01 FABRICATION

1. Assembly: Shop assemble casework items for delivery to site in units easily handled and to permit passage through building openings.

2. Casework: Die-formed metal sheet, each unit self-contained and not dependent on adjacent units or building structure for rigidity; factory-fabricated, factory-assembled, and factory-finished.

3. Style: Flush overlay - square edge.

4. Steel Sheet Metal:

a. Gables, Front and Back Panels, Gusset Plates, Aprons, and Rails: 18 gauge, 0.0478 inch (1.21 mm) minimum thickness.

90520225

05/21/2025

ISSUE DATE: 05.20.2025

REV DATE COMMENT

LICENSED ARCHITECT AR-866427

ERIC MATTHEW ROBERTS

STATE OF IDAHO

05/21/2025

TITLE

PROJECT

CUSTOMER

JOB NO: 240128

G0-10

LCSC MLT LAB

Sam Glenn Complex 500 4th St. Lewiston, ID 83501

Lewis Clark State College

PA#: 1623597
Date: 6/6/2025

These plans are approved contingent on the compliance with the mark-ups and notes applied.

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[illegible]

	DATUM POINT
101	DOOR NUMBER
	WINDOW TAG
	ROOM NUMBER
	WALL TAG
	ACCESSORY/ EQUIPMENT TAG
	KEYNOTE
	TILTUP TAG
	NORTH ARROW
NORTH	
5	PITCH
	CEILING TAG
<u>OPT.</u> = <u>VCT.</u>	FLOORING TAG
	ELEVATION TAG
T.O. FIN. FLR. ELEV. 100'-0"	
	GRID BUBBLE AND LINE
	EXISTING GRID BUBBLE AND LINE
	MATCH BUBBLE AND LINE
	INTERIOR ELEVATION TAG
	EXTERIOR ELEVATION TAG
	REVISION TAG
	BUILDING SECTION TAG
	WALL SECTION TAG

DEMOLISH: DISMANTLE, RAZE, DESTROY, OR WRECK ANY BUILDING OR STRUCTURE OR ANY PART THEREOF.
REMOVE: DETACH OR DISMANTLE ITEMS FROM EXISTING CONSTRUCTION AND DISPOSE OF THEM OFF SITE, UNLESS ITEMS ARE INDICATED TO BE SALVAGED OR REINSTALLED.
REMOVE AND SALVAGE: DETACH OR DISMANTLE ITEMS FROM EXISTING CONSTRUCTION IN A MANNER TO PREVENT DAMAGE. CLEAN, PACKAGE, LABEL AND DELIVER SALVAGED ITEMS TO THE OWNER IN READY-FOR-REUSE CONDITION.
REMOVE AND REINSTALL: DETACH OR DISMANTLE ITEMS FROM EXISTING CONSTRUCTION IN A MANNER TO PREVENT DAMAGE. CLEAN AND PREPARE FOR REUSE AND REINSTALL WHERE INDICATED.
EXISTING TO REMAIN: DESIGNATION FOR EXISTING ITEMS THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE SALVAGED OR REINSTALLED.

LICENSED
ARCHITECT
AR-986427

[Signature]

ERIC MATTHEW
ROBERTS
STATE OF IDAHO

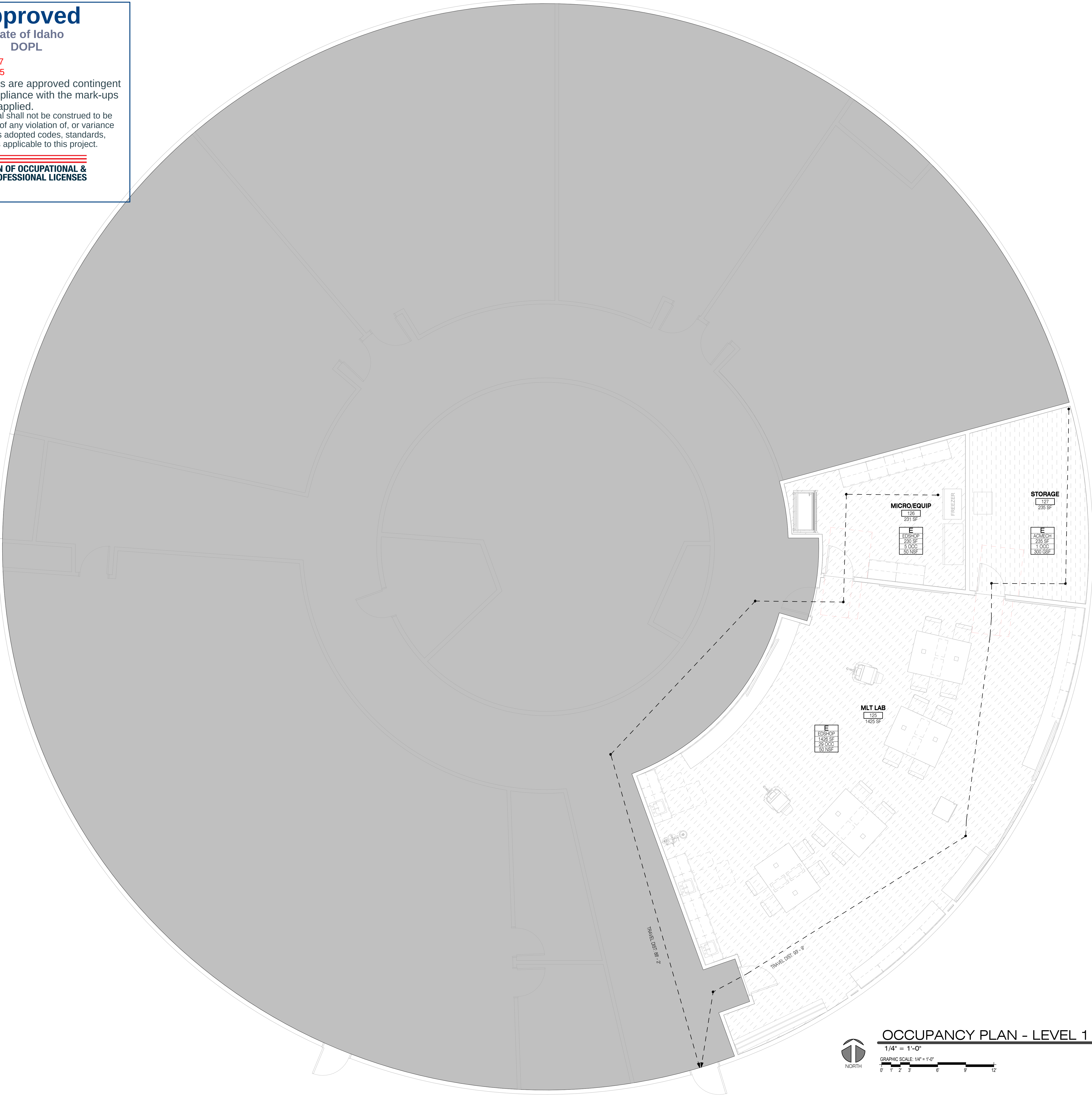
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DIVISION OF OCCUPANTIAL & PROFESSIONAL LICENSES

DOPL



SHEET NOTES

1. CONTRACTOR SHALL MAINTAIN ALL REQUIRED MEANS OF EGRESS CLEAR, UNOBSTRUCTED, AND READILY ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION. NO CONSTRUCTION MATERIALS, DEBRIS, EQUIPMENT, OR TEMPORARY BARRIERS SHALL BLOCK EXIT ACCESS, EXIT DOORS, OR EXIT DISCHARGE PATHS. ANY TEMPORARY RE-ROUTING OF EGRESS SHALL BE CLEARLY MARKED, APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHL), AND COORDINATED IN ADVANCE WITH THE OWNER.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
EXIT WIDTH REQUIRED EXIT WIDTH PROVIDED	OCCUPANT SERVED EXIT DOOR CAPACITY
EXIT WIDTH REQUIRED EXIT WIDTH PROVIDED	OCCUPANT CAPACITY EXIT STAIR CAPACITY
TRAVEL DISTANCE: #'-#"	MEANS OF EGRESS PATH OF TRAVEL
OCCUPANCY USE FUNCTION OF SPACE SQAURE FOOTAGE OCCUPANCY OCCUPANCY FACTOR	OCCUPANCY TAG
F.E. SEP. DIST: #'-#"	FIRE EXTINGUISHER SEPARATION DISTANCE

OCCUPANCY USE LEGEND

ACMECH - ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM 200 GSF	EDSHOP - EDUCATIONAL (SHOPS AND OTHER VOCATIONAL ROOM 50 NSF
--	---

OCCUPANCY CALCULATION

ABBREV	GROSS NET	AREA	OCCUPANT LOAD	# OCCUPANTS
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM				
ACMECH	GROSS	235 SF	300	1
EDUCATIONAL (SHOPS AND OTHER VOCATIONAL ROOM)				
EDSHOP	NET	230 SF	50	5
EDSHOP	NET	1426 SF	50	29
				35

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AR-866427
ERIC MATTHEW ROBERTS
STATE OF IDAHO
05/21/2025

CODE AND EXITING PLAN
LCSC MLT LAB
Sam Glenn Complex 500 4th St. Lewiston, ID 83501
Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240128

LS1-10

OCCUPANCY PLAN - LEVEL 1

1/4" = 1'-0"
GRAPHIC SCALE: 1/4" = 1'-0"
0 1 2 3 6 9 12

Approved

State of Idaho

DOPL

PA#: 1623597

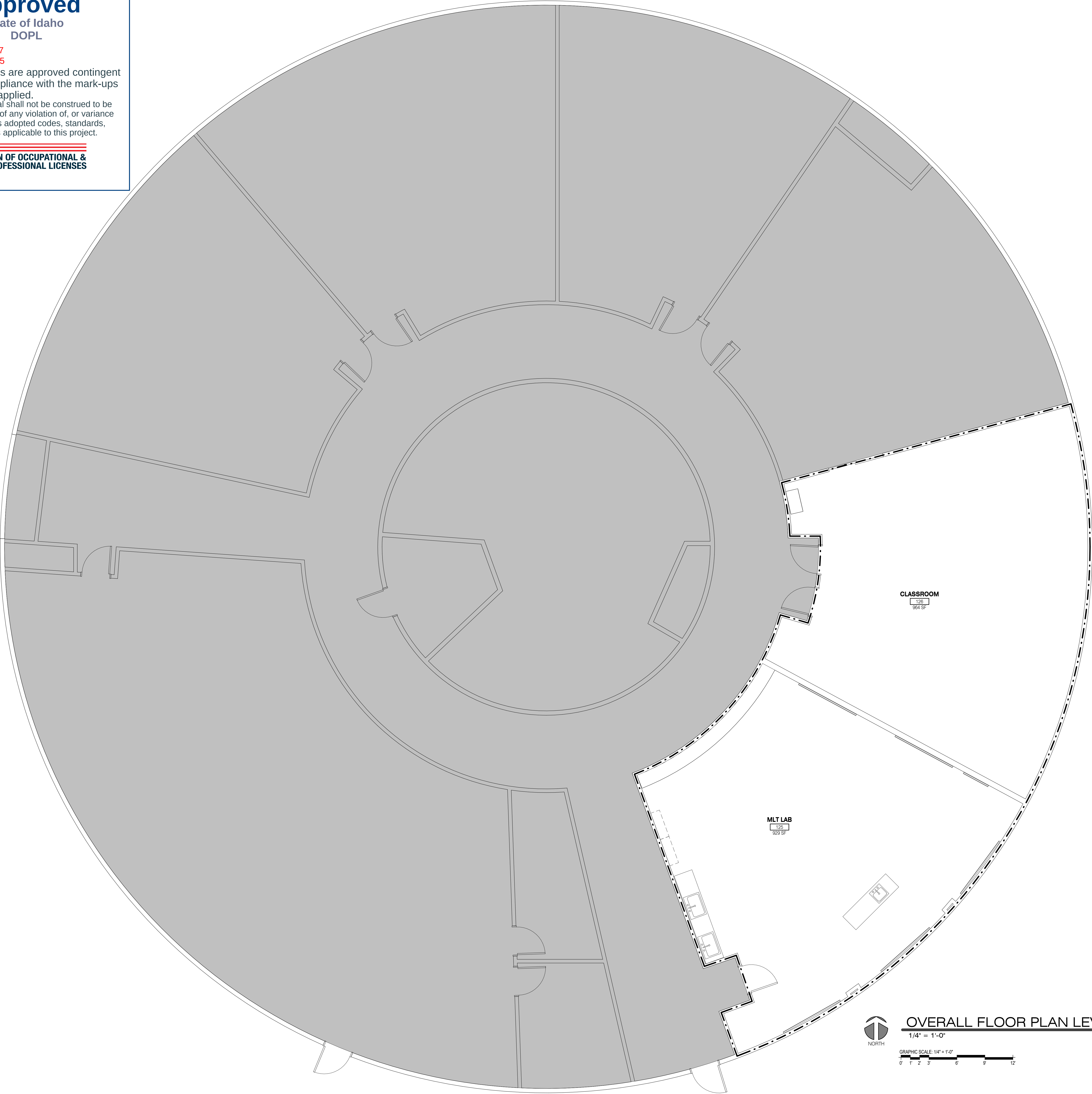
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DOPL

DIVISION OF OCCUPATIONAL & PROFESSIONAL LICENSES



PLAN LEGEND

- AREA NOT IN SCOPE
- AREA OF WORK

KNIT

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LICENSED ARCHITECT
AR-866427

ERIC MATTHEW ROBERTS
STATE OF IDAHO

05/21/2025

OVERALL FLOOR PLAN LEVEL 1

LCSC MLT LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

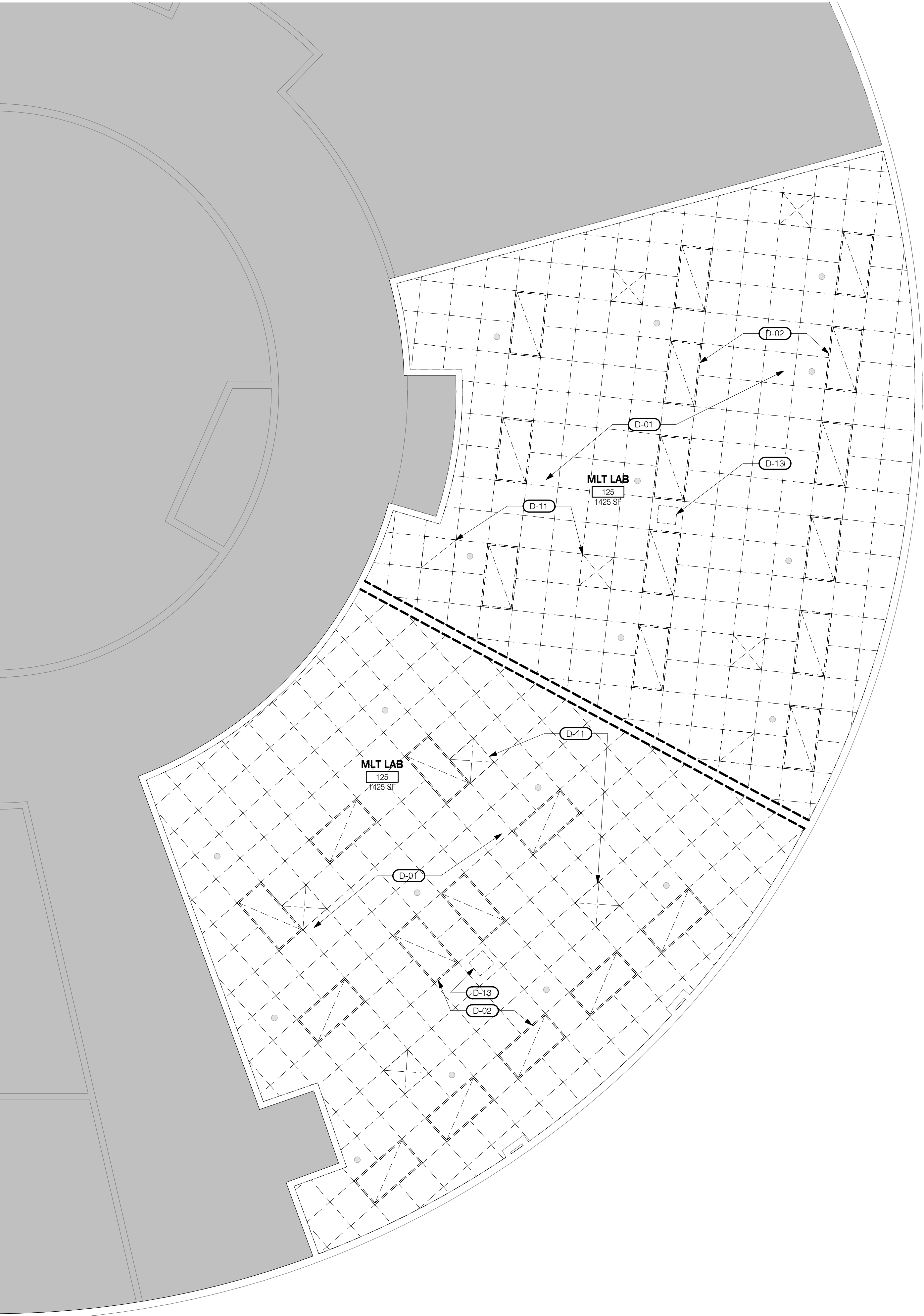
TITLE	PROJECT	CLIENT
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JOB NO: 240128

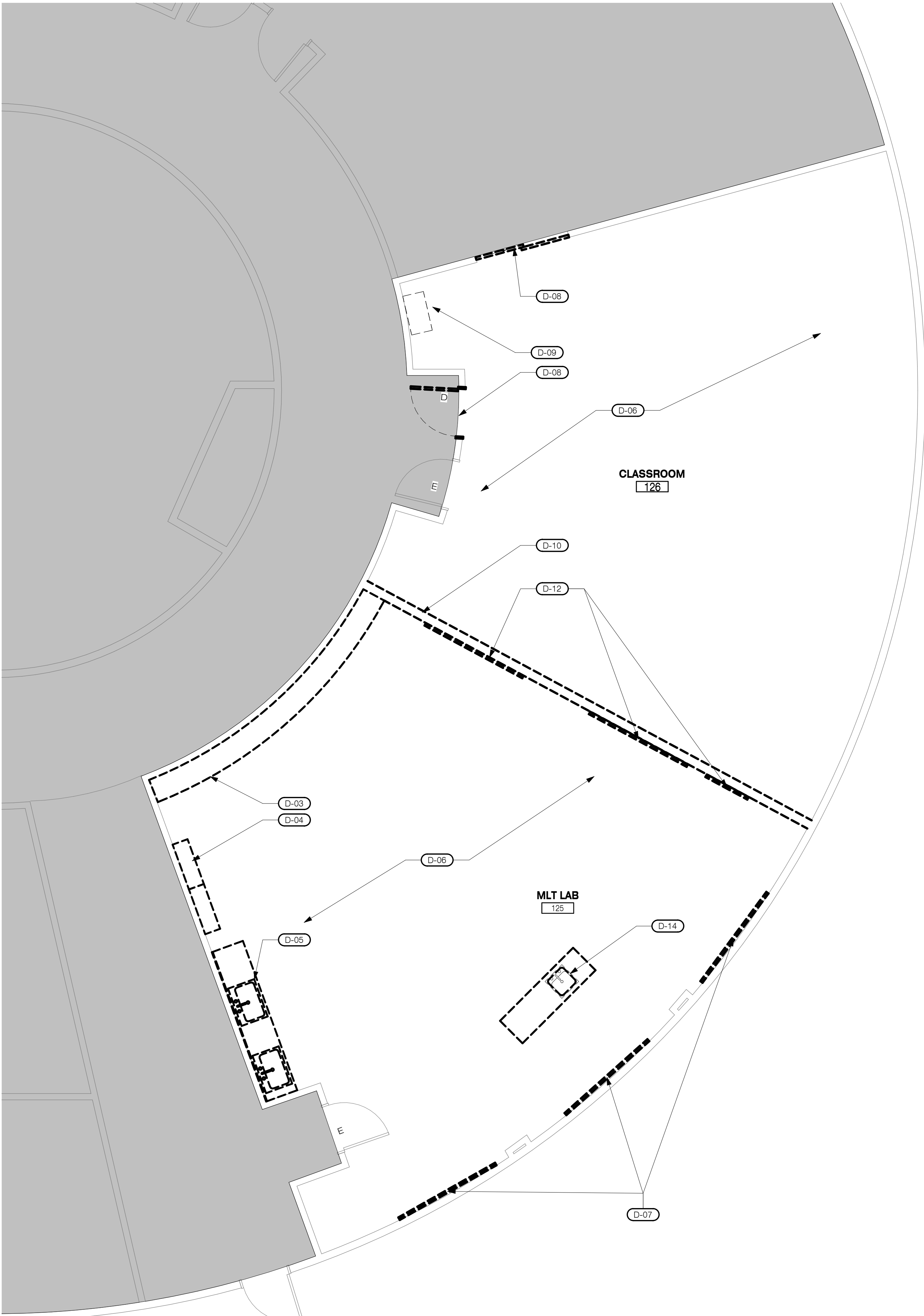
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DEMOLITION RCP - LEVEL 1
1/4" = 1'-0"
GRAPHIC SCALE: 1/4" = 1'-0"
0' 1' 2' 3' 6' 9' 12'



DEMOLITION FLOOR PLAN - LEVEL 1
1/4" = 1'-0"
GRAPHIC SCALE: 1/4" = 1'-0"
0' 1' 2' 3' 6' 9' 12'

SHEET NOTES

- HEIGHT REFERENCES ARE TAKEN FROM FINISH FLOOR ELEVATIONS. DIMENSIONS ARE TO CENTERLINE OF FIXTURES. CEILING TAGS WITHOUT LVL 0 (LEVEL 0) ARE TAKEN FROM LEVEL 1.
- NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FINISH SCHEDULE AND CEILING PLAN
- MECHANICAL FIXTURES, LIGHT FIXTURES SHOWN ON THIS DRAWING ARE FOR LOCATIONS ONLY. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT
- CENTER ALL FIXTURE AND REGISTERS IN LAY-IN CEILING TILES U.N.O. FIXTURE SHALL BE SUPPORTS INDEPENDENTLY FROM SUSPENDED CEILING
- ALL OSOI (OWNER SUPPLIED - CONTRACTOR INSTALLED) FIXTURES TO BE COORDINATED WITH CONTRACTOR FOR INSTALLATION REQUIREMENTS AND HEIGHTS PRIOR TO ROUGH IN OF CONNECTIONS
- ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CMU WALL OR CENTER LINE OF GRIDS U.N.O. ALL CLEAR DIMENSIONS ARE FROM FACE OF FINISH
- DO NOT SCALE FROM DRAWINGS
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY ARCHITECT OF ANY PLAN DISCREPANCIES OR EXISTING AS-BUILT CONDITION CONFLICTING INFORMATION.
- REFER TO ELECTRICAL DRAWINGS FOR ALL LOCATIONS AND REQUIREMENTS OF ELECTRICAL EQUIPMENT, DEVICES, AND INFRASTRUCTURE
- REFER TO SPECIFICATIONS FOR SUBMITTAL OF SAMPLES OF ALL INTERIOR MATERIALS AND/OR FINISHES
- ALL RECEPTACLES AND SWITCHES TO REMAIN, U.N.O
- ALL FURNITURE TO BE REMOVED AND COORDINATED BY OWNER, COORDINATE STORAGE WITH OWNER.
- VENTILATE ENCLOSED AREAS TO ASSIST CURE OF MATERIALS, TO DISSIPATE HUMIDITY, AND TO PREVENT ACCUMULATION OF DUST, FUMES, VAPORS, OR GASES.
- KEEP AREAS IN WHICH ALTERATIONS ARE BEING CONDUCTED SEPARATED FROM OTHER AREAS THAT ARE NOT AFFECTED BY ALTERATION WORK.
- PROVIDE, ERECT, AND MAINTAIN TEMPORARY DUSTPROOF PARTITIONS TO SEPARATE AREAS OF ALTERATION FROM THE REMAINING PORTIONS OF THE BUILDING.
- REMOVE EXISTING WORK AS INDICATED AND AS REQUIRED TO ACCOMPLISH NEW WORK.
- REMOVE ROTTED WOOD, CORRODED METALS, AND DETERIORATED MASONRY AND CONCRETE; REPLACE WITH NEW CONSTRUCTION.
- REMOVE ITEMS INDICATED ON DRAWINGS AS TO BE DEMOLISHED.
- RELOCATE ITEMS INDICATED ON DRAWINGS INDICATED TO BE SALVAGED.
- WHERE NEW SURFACE FINISHES ARE TO BE APPLIED TO EXISTING WORK, PERFORM REMOVALS, PATCH, AND PREPARE EXISTING SURFACES AS REQUIRED TO RECEIVE NEW FINISH; REMOVE EXISTING FINISH IF NECESSARY FOR SUCCESSFUL APPLICATION OF NEW FINISH.
- WHERE NEW SURFACE FINISHES ARE NOT SPECIFIED OR INDICATED, PATCH HOLES AND DAMAGED SURFACES TO MATCH ADJACENT FINISHED SURFACES AS CLOSELY AS POSSIBLE.
- SERVICES (INCLUDING BUT NOT LIMITED TO HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND TELECOMMUNICATIONS) REMOVE, RELOCATE, AND EXTEND EXISTING SYSTEMS TO ACCOMMODATE NEW CONSTRUCTION.
- REMOVE ABANDONED PIPE, DUCTS, CONDUITS, AND EQUIPMENT, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS; REMOVE BACK TO SOURCE OF SUPPLY WHERE POSSIBLE. OTHERWISE CAP, STUB AND TAG WITH IDENTIFICATION; PATCH HOLES LEFT BY REMOVAL USING MATERIALS SPECIFIED FOR NEW CONSTRUCTION.
- PERFORM WHATEVER CUTTING AND PATCHING IS NECESSARY TO COMPLETE THE WORK; FIT PRODUCTS TOGETHER TO INTEGRATE WITH OTHER WORK; PROVIDE OPENINGS FOR PENETRATION OF MECHANICAL, ELECTRICAL, AND OTHER SERVICES; MATCH WORK THAT HAS BEEN CUT TO ADJACENT WORK; REPAIR AREAS ADJACENT TO CUTS TO REQUIRED CONDITION; REPAIR NEW WORK DAMAGED BY SUBSEQUENT WORK; REMOVE SAMPLES OF INSTALLED WORK FOR TESTING WHEN REQUESTED; REMOVE AND REPLACE DEFECTIVE AND NON-COMPLYING WORK.
- PATCHING: FINISH PATCHED SURFACES TO MATCH FINISH THAT EXISTED PRIOR TO PATCHING. ON CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION OR NATURAL BREAK. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT. MATCH COLOR, TEXTURE, AND APPEARANCE. REPAIR PATCHED SURFACES THAT ARE DAMAGED, LIFTED, DISCOLORED, OR SHOWING OTHER IMPERFECTIONS DUE TO PATCHING WORK. IF DEFECTS ARE DUE TO CONDITION OF SUBSTRATE, REPAIR SUBSTRATE PRIOR TO REPAIRING FINISH.

KEYNOTES

D-01	REMOVE ACT TILE AND GRID IN THEIR ENTIRETY; PATCH, REPAIR, AND TEXTURE ADJACENT WALLS AS REQUIRED TO MATCH EXISTING TEXTURE TO PREPARE FOR NEW CEILINGS
D-02	REMOVE EXISTING LIGHT FIXTURE, COORDINATE STORAGE OR DISPOSAL WITH OWNER
D-03	REMOVE (DEMOLISH) CASEWORK COMPLETE, PATCH AND REPAIR WALL AS REQUIRED
D-04	REMOVE EXISTING CASEWORK; PATCH AND REPAIR WALL AS REQUIRED. COORDINATE STORAGE WITH OWNER
D-05	REMOVE (DEMOLISH) EXISTING 2-COMPARTMENT SINK AND ASSOCIATED FILTRATION SYSTEMS. PREPARE PLUMBING FOR SINKS.
D-06	REMOVE (DEMOLISH) ALL FLOORING AND WALLBASE. ABATE AS REQUIRED. REFER TO HAZARDOUS MATERIALS REPORT. PREPARE FOR NEW FLOORING PER FINISH SCHEDULE. CLEAR WALLS OF SURFACE MOUNTED CONDUITS AND PIPING WHERE POSSIBLE. PATCH AND REPAIR WALLS. PREPARE FOR PAINT
D-07	REMOVE EXISTING WHITE BOARDS; STORE DURING CONSTRUCTION FOR REINSTALLATION PER NEW PLAN
D-08	REMOVE (SALVAGE) EXISTING DOOR AND FRAME AND PREPARE ADJACENT SURFACES FOR WALL INFILL
D-09	REMOVE EXISTING SERVER BOX. STORE DURING CONSTRUCTION FOR REINSTALLATION PER NEW PLAN
D-10	EXISTING WALL TO BE REMOVED; PATCH AND REPAIR ADJACENT WALLS AS REQUIRED
D-11	REMOVE EXISTING AIR TERMINALS. STORE DURING CONSTRUCTION FOR REINSTALLATION PER NEW PLAN
D-12	REMOVE EXISTING BULLETIN BOARDS
D-13	REMOVE EXISTING PROJECTOR. COORDINATE STORAGE OR DISPOSAL WITH OWNER
D-14	REMOVE (DEMOLISH) CASEWORK COMPLETE. SEE MECHANICAL AND ELECTRICAL DEMOLITION PLAN

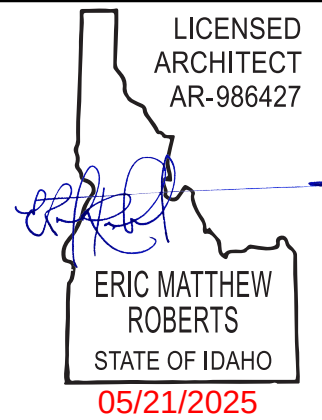
DEMO CEILING FIXTURE LEGEND

SYMBOL	DESCRIPTION
	DEMO 2X4 RECESSED FLUORESCENT LIGHT FIXTURE
	DEMO RETURN AIR DIFFUSER / EXHAUST
	DEMO SUPPLY AIR DIFFUSER
	EXISTING SPRINKLER HEAD. CONTRACTOR TO VERIFY LOCATION AND COORDINATE RELOCATION AND PERMITTING AS REQUIRED



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DEMOLITION FLOOR PLAN LEVEL 1 & RCP

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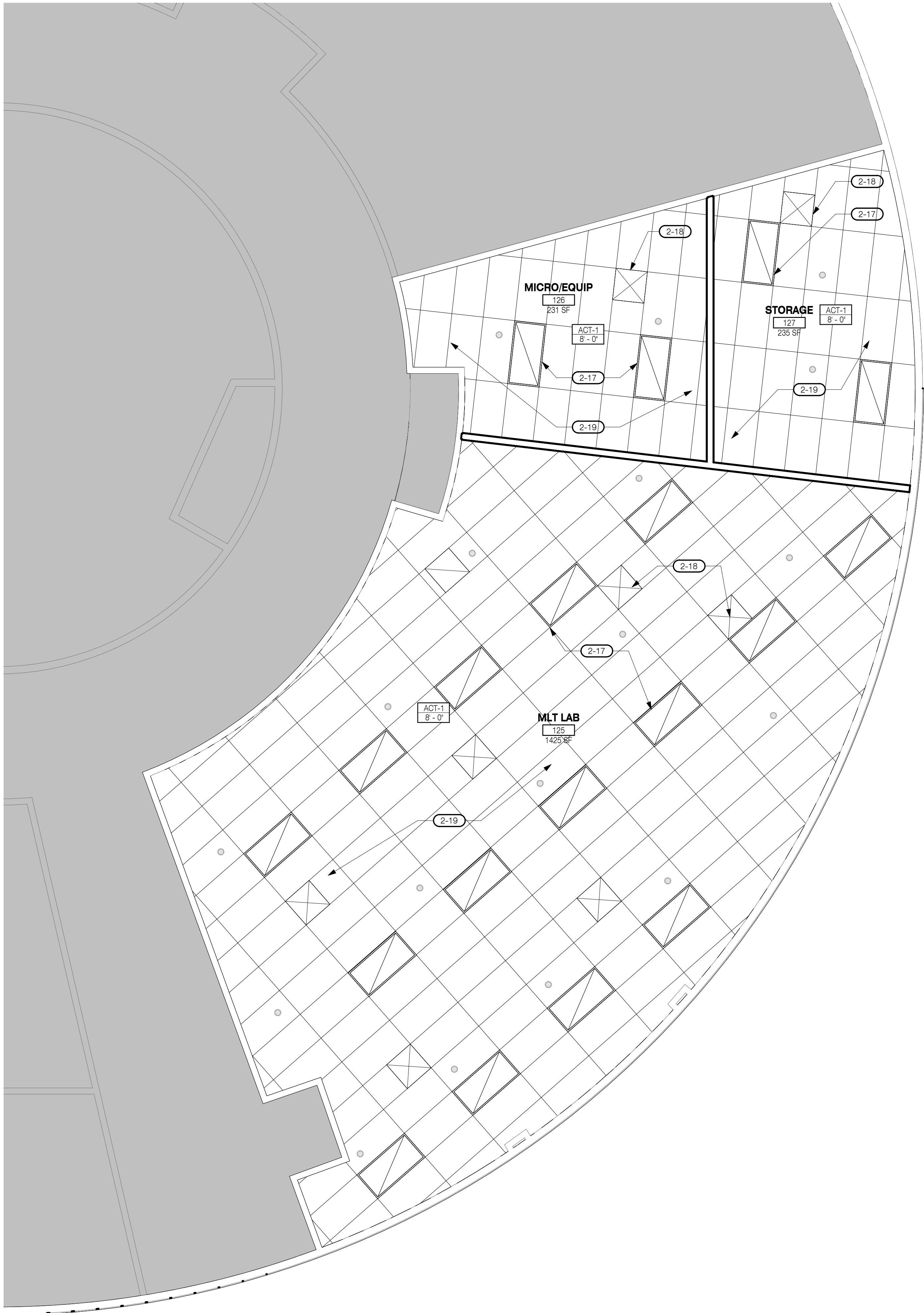
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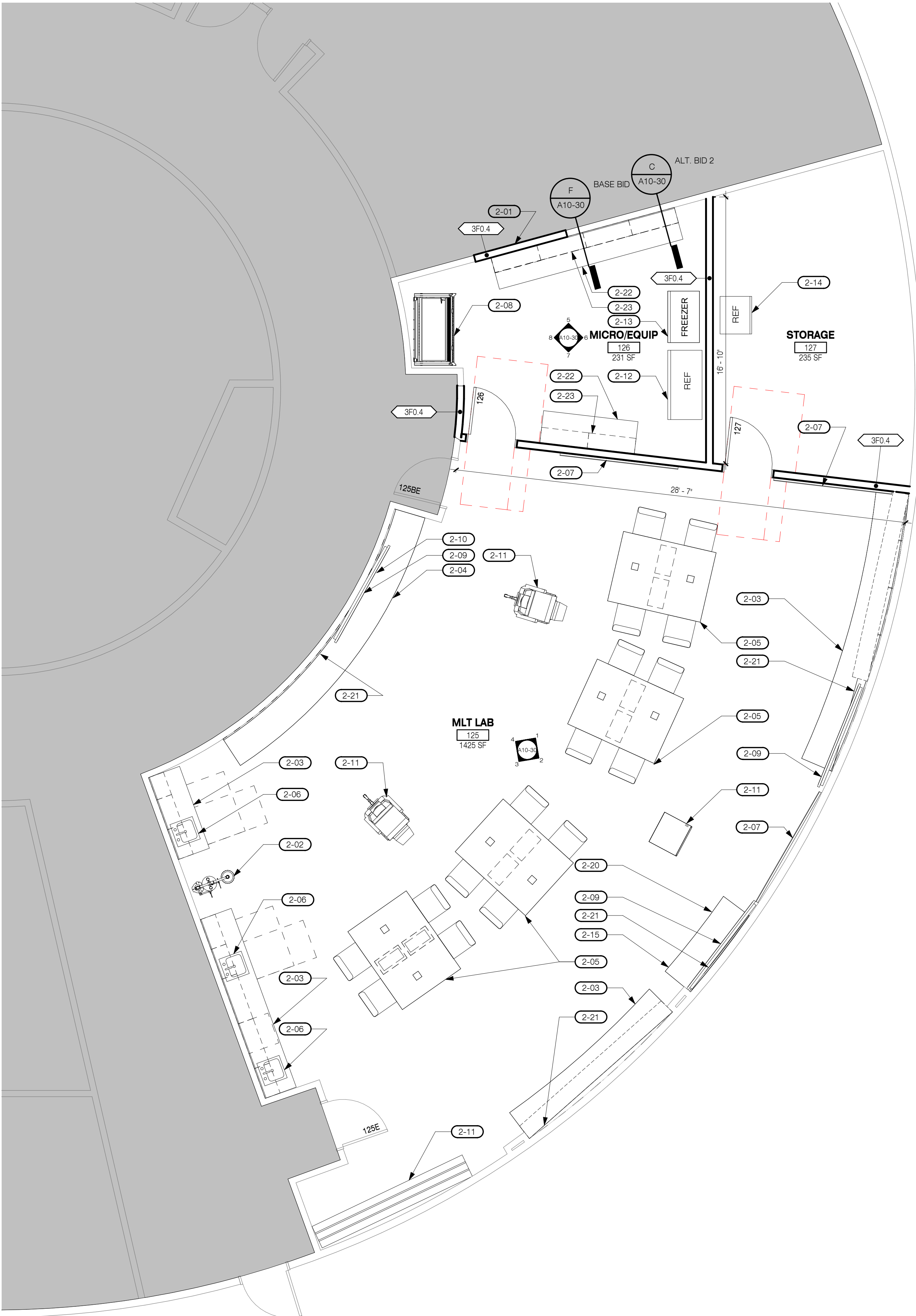
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DOPL



RCP - LEVEL 1
1/4" = 1'-0"
GRAPHIC SCALE: 1/4" = 1'-0"
0' 1' 2' 3' 6' 9' 12'



FLOOR PLAN - LEVEL 1
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- REFER TO SPECIFICATIONS FOR SUBMITTAL OF SAMPLES OF ALL INTERIOR MATERIALS AND/OR FINISHES.
- ALL RECEPTACLES AND SWITCHES TO REMAIN, U.N.O.
- ALL FURNITURE TO BE REMOVED BY CONTRACTOR, COORDINATE STORAGE WITH OWNER.
- ADAPT EXISTING WORK TO FIT NEW WORK. MAKE AS NEAT AND SMOOTH TRANSITION AS POSSIBLE.
- WHEN EXISTING FINISHED SURFACES ARE CUT SO THAT A SMOOTH TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG A STRAIGHT LINE AT A NATURAL LINE OF DIVISION AND MAKE RECOMMENDATION TO ARCHITECT.
- WHERE REMOVAL OF PARTITIONS OR WALLS RESULTS IN ADJACENT SPACES BECOMING ONE, REWORK FLOORS, WALLS, AND CEILINGS TO A SMOOTH PLANE WITHOUT BREAKS, STEPS, OR BULKHEADS.
- WHERE A CHANGE OF PLANE OF 1/4 INCH (6 MM) OR MORE OCCURS IN EXISTING WORK FLOAT EXISTING FINISHED SURFACES TO PROVIDE A NEAT AND SMOOTH TRANSITION AS POSSIBLE.
- PATCHING: WHERE THE EXISTING SURFACE IS NOT INDICATED TO BE REFINISHED, PATCH TO MATCH THE SURFACE FINISH THAT EXISTED PRIOR TO CUTTING. WHERE THE SURFACE IS INDICATED TO BE REFINISHED, PATCH SO THAT THE SUBSTRATE IS READY FOR THE NEW FINISH.
- REFINISH EXISTING SURFACES AS INDICATED.
- WHERE ROOMS OR SPACES ARE INDICATED TO BE REFINISHED, REFINISH ALL VISIBLE EXISTING SURFACES TO REMAIN TO THE SPECIFIED CONDITION FOR EACH MATERIAL, WITH A NEAT TRANSITION TO ADJACENT FINISHES.
- IF MECHANICAL OR ELECTRICAL WORK IS EXPOSED ACCIDENTALLY DURING THE WORK, RECOVER AND REFINISH TO MATCH.

KEYNOTES

2-01	INFILL OPENING
2-02	SAFETY SHOWER/EYE STATION. BASIS OF DESIGN: U-LINE H-667
2-03	NEW BUILT IN CASEWORK WITH CABINETS ABOVE.
2-04	NEW BUILT IN COUNTER AND CONCEALED WALL BRACKETS. SCRIBE ON FIELD AND PROVIDE ADEQUATE BLOCKING IN EXISTING WALLS FOR NEW CASEWORK ATTACHMENTS.
2-05	ALTERNATE NO. 1: NEW COUNTER AND CASEWORK.
2-06	NEW STAINLESS STEEL SINK AND FAUCET CONNECTED TO EXISTING PLUMBING. REFER TO PLUMBING DRAWINGS.
2-07	REINSTALL EXISTING WHITE BOARDS.
2-08	INSTALL NEW DUCTLESS BIO SAFETY CABINET WITH HEPA EXHAUST FILTER.
2-09	DISPLAY MONITORS WITH MONITOR MOUNTS. CHEF LTM1U - C.F.C.I.
2-10	CAMERA BY OWNER - C.F.C.I.
2-11	FURNITURE TO BE C.F.C.I.
2-12	REFRIGERATOR TO BE C.F.C.I.
2-13	FREEZER TO BE C.F.C.I.
2-14	REFRIGERATOR TO BE C.F.C.I.
2-15	NEW BUILT IN CASEWORK. SCRIBE CASEWORK ON FIELD.
2-17	NEW LIGHT FIXTURE. REFER TO ELECTRICAL.
2-18	REINSTALL EXISTING AIR TERMINALS. REFER TO MECHANICAL.
2-19	INSTALL NEW 2X4 ACT CEILING.
2-20	NEW CABINET TO HOST I.T. SERVER BOX. NEED POWER AND PATHWAY FOR NETWORK CONNECTION.
2-21	NEW CASEWORK TO BE SCRIBED ON FIELD.
2-22	BID BASE COUNTER TOP WITH SUPPORTS. SEE DETAIL 1/A12-10.
2-23	ALTERNATE NO. 2: NEW UPPER AND LOWER CABINETS.

CEILING TYPES

SYMBOL	CEILING DESCRIPTION
XXX-#	CEILING TYPE MARK
50'-0"	CEILING HEIGHT (INDICATES HEIGHT ABOVE FINISHED FLOOR)

ACT-1: NEW 2X4 ACT CEILING TILES

CEILING FIXTURE LEGEND

SYMBOL	DESCRIPTION
	RECESSED LED LIGHT FIXTURE
	RETURN AIR DIFFUSER / EXHAUST
	SUPPLY AIR DIFFUSER
	EXISTING SPRINKLER HEAD

WALL LEGEND

LEGEND	DESCRIPTION
	8' MASONRY WALL
	12' MASONRY WALL
	CONCRETE WALL
	LOAD BEARING WALL
	NON-LOAD BEARING PARTITION
	A=ACOUSTICAL CORE THICKNESS FIRE RATING OR SMOKE CORE HEIGHT CORE TYPE

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MARK

FIRE RATING

UL LISTING

STC RATING

3F0, 4

(none)

ROOF OR FLOOR DECK ABOVE

CEILING AS OCCURS

RECURRING

1

PARTITION TYPE - 3F0

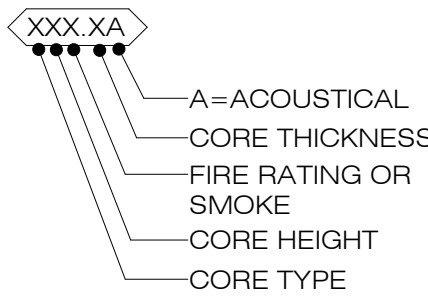
3/4" = 1'-0"

PARTITION NOTES

ABBREVIATIONS

CORE TYPE

- 1 = CONCRETE
- 2 = MASONRY
- 3 = METAL STUD
- 4 = WOOD STUD
- 5 = FURRING (METAL STUDS)
- 6 = FURRING (WOOD STUDS)
- 7 = SHAFT
- 8 = SINGLE SIDED(METAL STUDS)
- 9 = SINGLE SIDED(WOOD STUDS)



CORE HEIGHT

- B = BRACED HEIGHT (1'-0" ABOVE HIGHEST ADJACENT CEILING)
- C = WALL TERMINATION UNDER CEILING
- F = FULL HEIGHT (TO ROOF OR FLOOR STRUCTURE ABOVE)
- L = LOW WALL (HEIGHT AS INDICATED ON PLANS)

FIRE RATING

- 0 = NO RATING
- 1 = 1-HOUR
- 2 = 2-HOUR
- 3 = 3-HOUR
- 4 = 4-HOUR

THICKNESSES:

CONCRETE	MASONRY	METAL STUDS	WOOD STUDS	SHAFT (CH STUDS)
4 = 4"	4 = 3 5/8" (4" NOM.)	0 = 7/8"	1 = 3/4"	2 = 2 1/2"
6 = 6"	6 = 5 5/8" (6" NOM.)	1 = 1 1/2"	2 = 1 1/2"	4 = 4"
8 = 8"	8 = 7 5/8" (8" NOM.)	2 = 2 1/2"	3 = 2 1/2"	6 = 6"
10 = 10"	12 = 11 5/8" (12" NOM.)	3 = 3 5/8"	4 = 3 1/2"	
12 = 12"		4 = 4"	6 = 5 1/2"	
		6 = 6"	8 = 7 1/4"	
		8 = 8"	10 = 9 1/4"	
		10 = 10"	12 = 11 1/4"	
		12 = 12"		

GENERAL NOTES

- A. TYPICAL NON-LOAD BEARING PARTITION TYPES REFLECT DESIGN INTENT, CONFIGURATIONS, TERMINATION AND PROFILES OF WALLS.
- B. WALL FINISHES ARE NOT SHOWN AND SPECIFIED ELSEWHERE.
- C. WALL FRAMING MEMBERS ARE MINIMUMS UNLESS LARGER MEMBERS ARE REQUIRED DUE TO HEIGHT AND SPAN LIMITATIONS. REFER TO TYPICAL NON-LOAD BEARING WALL DETAILS.
- D. WALL FRAMING SPACING ARE MINIMUMS UNLESS LARGER MEMBERS ARE REQUIRED DUE TO HEIGHT AND SPAN LIMITATION. REFER TO TYPICAL NON-LOAD BEARING WALL DETAILS.
- E. BLOCKING OR BACKING PLATES SHALL BE PROVIDED TO SUPPORT ALL PRODUCTS ATTACHED TO WALLS AFTER COMPLETION OF FINISH SURFACE, INCLUDING BUT NOT LIMITED TO TOILET AND BATH ACCESSORIES, PLUMBING AND ELECTRICAL FIXTURES, CASEWORK, HANDRAILS, EQUIPMENT AND FURNISHINGS.
- F. ALL TOP OF FULL HEIGHT WALLS SHALL ACCOMMODATE A MINIMUM OF 1/2" DEFLECTION.
- G. ALL PARTIAL HEIGHT WALLS SHALL BE BRACED TO RESIST LATERAL LOADS IN ACCORDANCE WITH CODE. REFER TO TYPICAL NON-LOAD BEARING WALL DETAILS.
- H. ALL SOUND RATED ASSEMBLIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THEIR LISTED ASSEMBLIES.

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ISSUE DATE: 05.20.2025

REV DATE COMMENT

LICENSED ARCHITECT AR-866427

ERIC MATTHEW ROBERTS
STATE OF IDAHO
05/21/2025

PARTITION SCHEDULE & DETAILS

LCSC MLT LAB

Sam Glenn Complex 500 4th St. Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

A2-40

Approved

State of Idaho

DOPL

PA#: 1623597

Date: 6/6/2024

These plans are approved contingent on the compliance with the mark-ups and notes applied.

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Division of Occupational & Professional Licenses

DOPL

STUD SHORT TO DESIGN GAP TO ALLOW DEFLECTION

FASTEN SLOTTED TRACK TO MAIN STRUCTURE

FASTEN SLOTTED TRACK TO STUD WITH SCREW AT EACH FLANGE (DO NOT OVER TIGHTEN)

DESIGN GAP FOR VERTICAL DEFLECTION

JAMB STUD

STUD

FASTEN DEFLECTION (OUTER) TRACK TO MAIN STRUCTURE

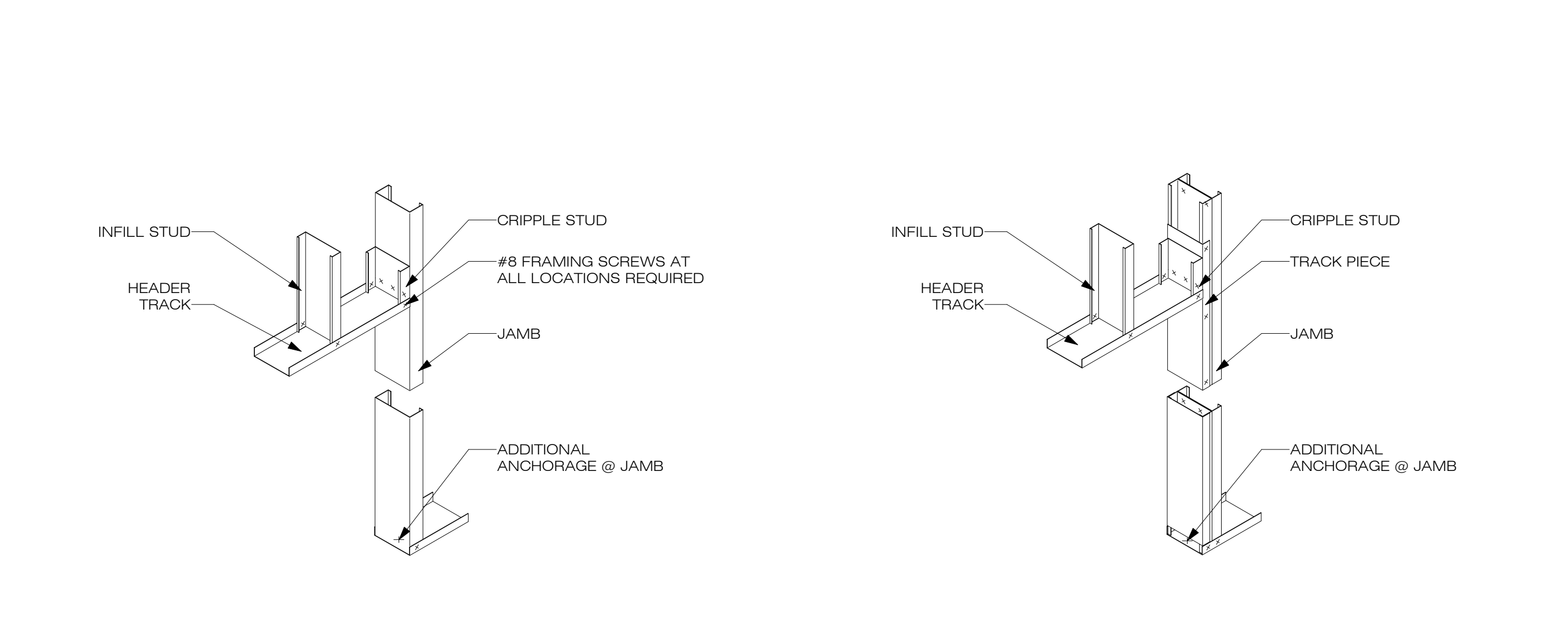
NO ATTACHMENT OF OUTER TRACK TO INNER TRACK

MIN. SCREW CLEARANCE EQUAL TO DESIGN CAP

DESIGN GAP FOR VERTICAL DEFLECTION

SCREW ATTACH AT EACH FLANGE

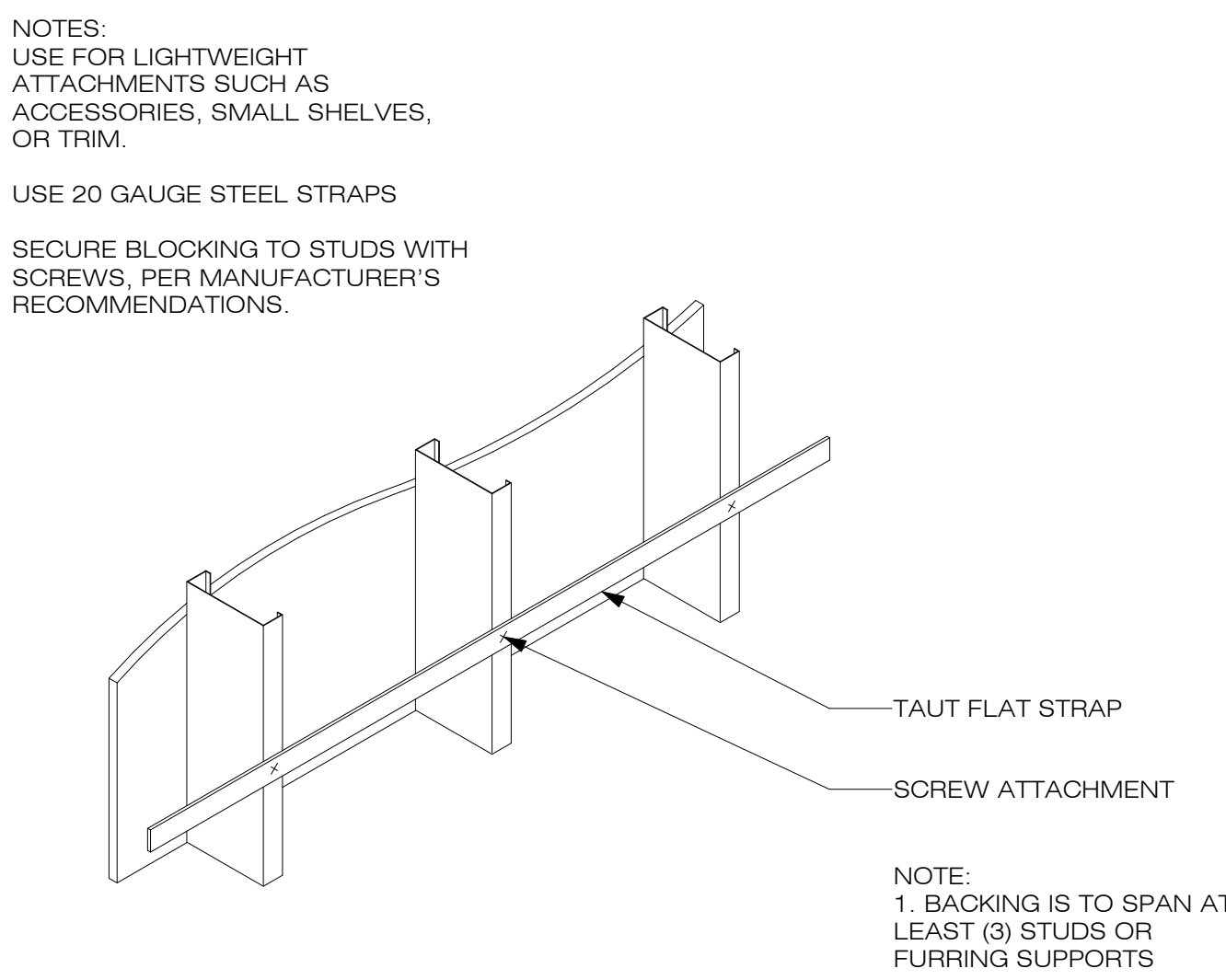
DEEP LEG NESTED (INNER) TRACK



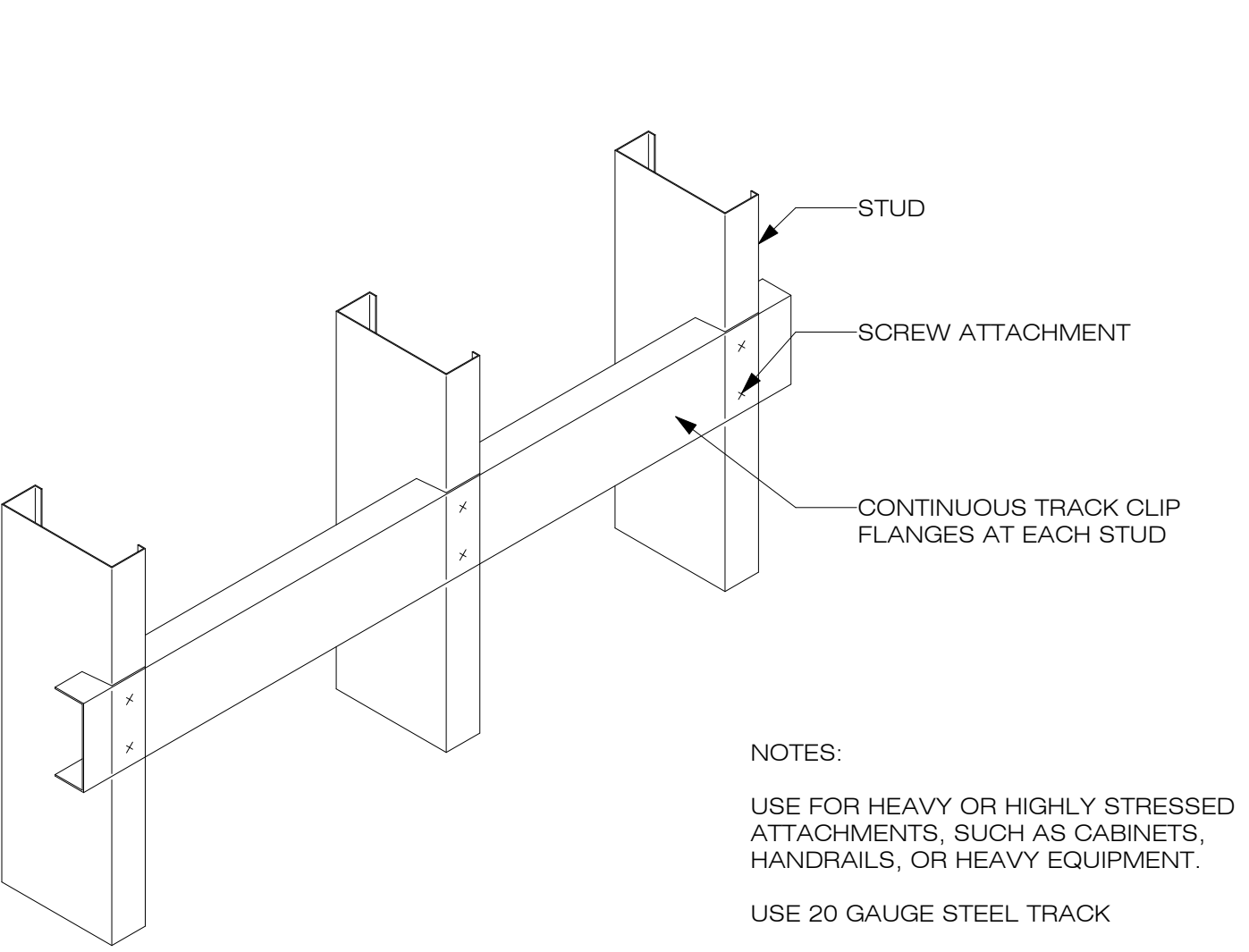
SINGLE TRACK HEADER - SINGLE JAMB

SINGLE TRACK HEADER - BACK TO BACK JAMB

2 NON-LOAD BEARING DOOR



USE FOR SPANS OVER 5'-6"



FLAT STRAP

FLAT STRAP

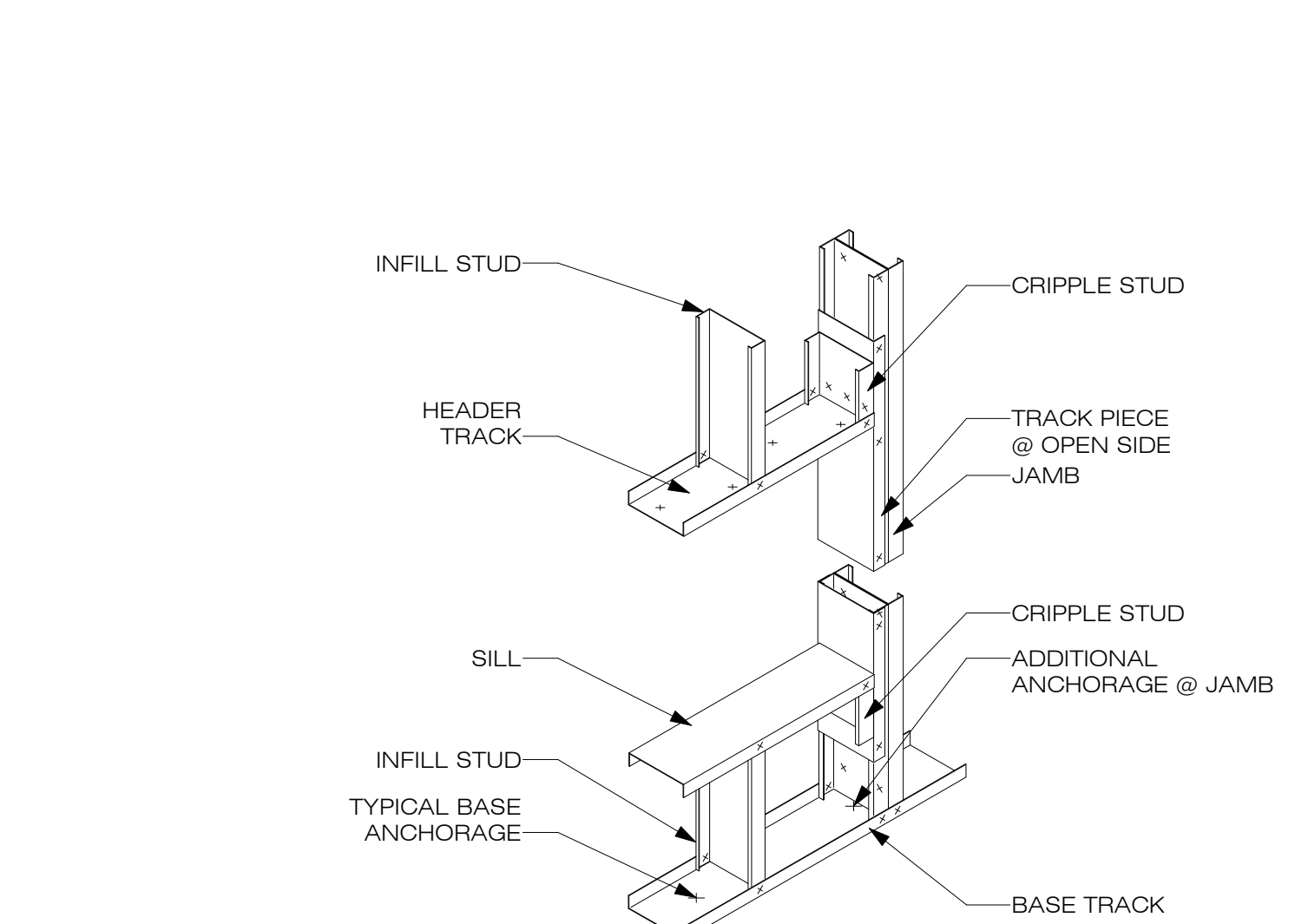
LIGHTLY LOADED

HEAVY LOADED

4 BLOCKING/ BACKING DETAILS



1 DEFLECTION DETAILS

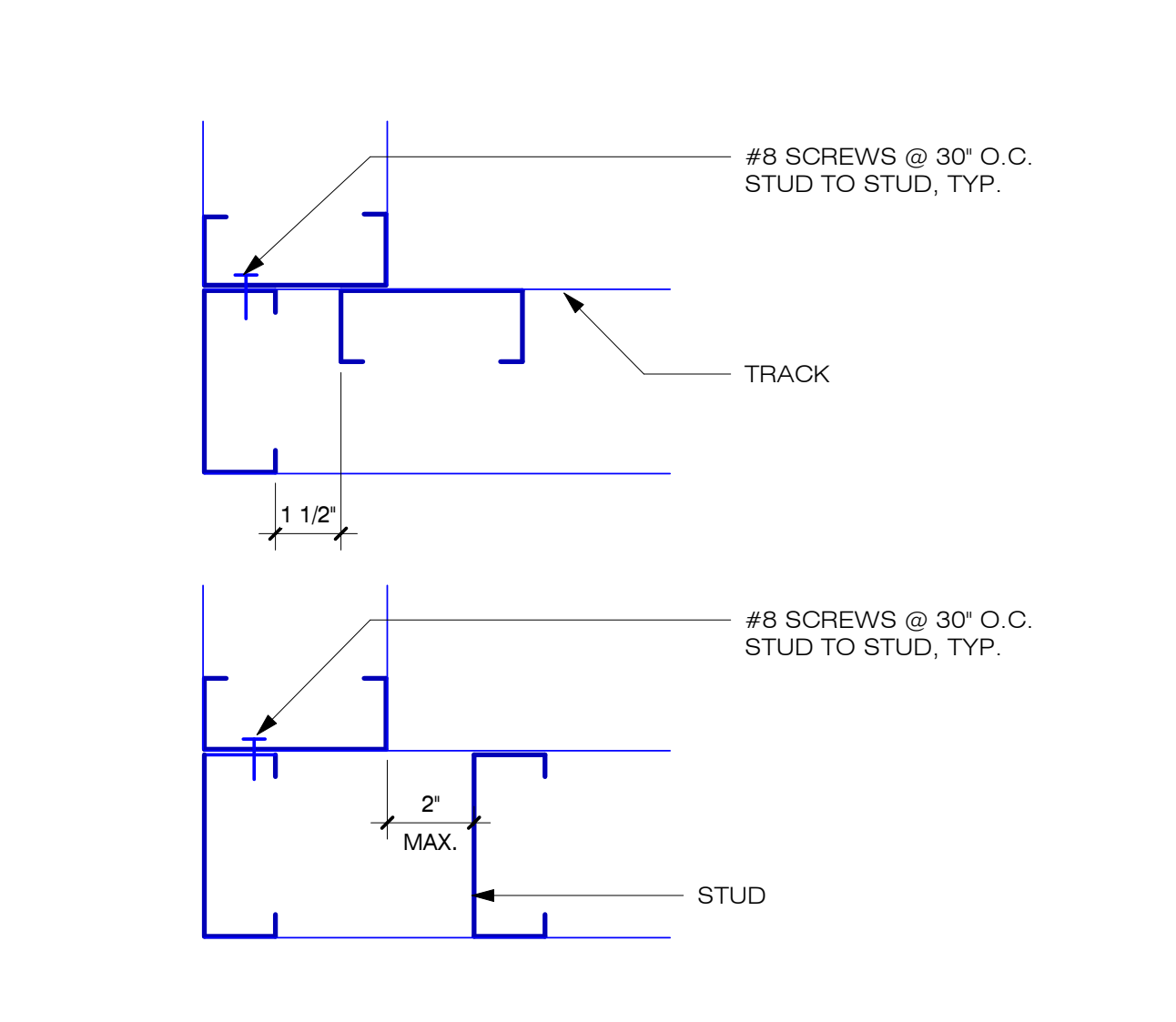


SINGLE TRACK HEADER - BACK TO BACK JAMB

SINGLE TRACK HEADER - SINGLE JAMB

USE FOR SPANS OVER 5'-6"

3 NON-LOAD BEARING WINDOW



TYPICAL CORNERS

TYPICAL INTERSECTIONS

5 STUD TO STUD CONNECTION DETAILS



GENERAL NOTES

1. ACCEPTABLE LIGHT GAUGE METAL FRAMING MANUFACTURERS
2. PROVIDED MINIMUM 22 GAUGE STUDS - UNLESS HEAVIER GAUGE IS NECESSARY ACCORDING TO THE PUBLISHED HEIGHT LIMITATION TABLES OF THE MANUFACTURERS ICC EVALUATION REPORT. PROVIDE MINIMUM STUD SIZES AS INDICATED UNLESS INCREASED SIZE IS NECESSARY ACCORDING TO THE PUBLISHED TABLES OF THE MANUFACTURERS ICC EVALUATION REPORT OR AS FOLLOWS:
3. INSTALL STUDS AT 16 INCHES ON CENTER TYPICALLY, UNLESS REDUCED SPACING IS NECESSARY ACCORDING TO THE PUBLISHED TABLES OF THE MANUFACTURERS ICC EVALUATION REPORT. DO NOT SPLICE STUDS. PROVIDE STUDS NOT MORE THAN 2 INCHES FROM EACH CORNER OF WALL OR ABUTTING CONSTRUCTION.
4. METAL STUD WALL BLOCKING OR BACKING PLATES: PROVIDE BACKING AS INDICATED AND AS NECESSARY TO SUPPORT ALL PRODUCTS ATTACHED TO WALL AFTER COMPLETION OF FINISH SURFACE, INCLUDING TOILET AND BATH ACCESSORIES, PLUMBING AND ELECTRICAL FIXTURE, ELECTRICAL PANELS, TOILET PARTITIONS, CASEWORK, HARDWARE, HANDRAILS, TRIM, ETC.
5. BOTTOM TRACK - SECURE TO STRUCTURE USING FASTENERS, FASTENERS: A. TRACK TO CONCRETE = LOW VELOCITY SHOT PINS TO BE HILTI X-U OR X-P OR EQUAL. ICC REPORT XSR-2269 OR XSR-1759 B. TRACK TO WOOD = SELF-DRILLING METAL TO WOOD SCREWS WITH PLATE WASHERS TO BE HILTI S-MDW OR EQUAL.
6. INSTALL FRAMING IN ACCORDANCE TO WITH ASTM C754
7. METAL FRAMING BOX HEADER SCHEDULE (FOR USE AT NON-BEARING INTERIOR WALLS ONLY):

SPAN	ASSEMBLY
UP TO 4'-0"	(2) 3 5/8" X 20 GA. BOXED HEADER
4'-0" TO < 5'-6"	(2) 4" X 20 GA. BOXED HEADER
5'-6" TO < 9'-0"	(2) 6" X 20 GA. BOXED HEADER
9'-0" TO < 11'-6"	(2) 8" X 20 GA. BOXED HEADER
OVER 11'-6"	(2) 10" X 20 GA. BOXED HEADER / (2) 12" X 20 GA. BOXED HEADER

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6 MAY 2025

ISSUE DATE: 05.20.2025

REV DATE COMMENT

LICENSED ARCHITECT AR-866427

ERIC MATTHEW ROBERTS

STATE OF IDAHO

05/21/2025

TYPICAL NON-LOAD BEARING PARTITION FRAMING DETAILS

TITLE PROJECT CLIENT

JOB NO: 240128

A2-41

LCSC MLT LAB
Sam Glenn Complex 500 4th St. Lewiston, ID 83501
Lewis Clark State College

Approved

State of Idaho

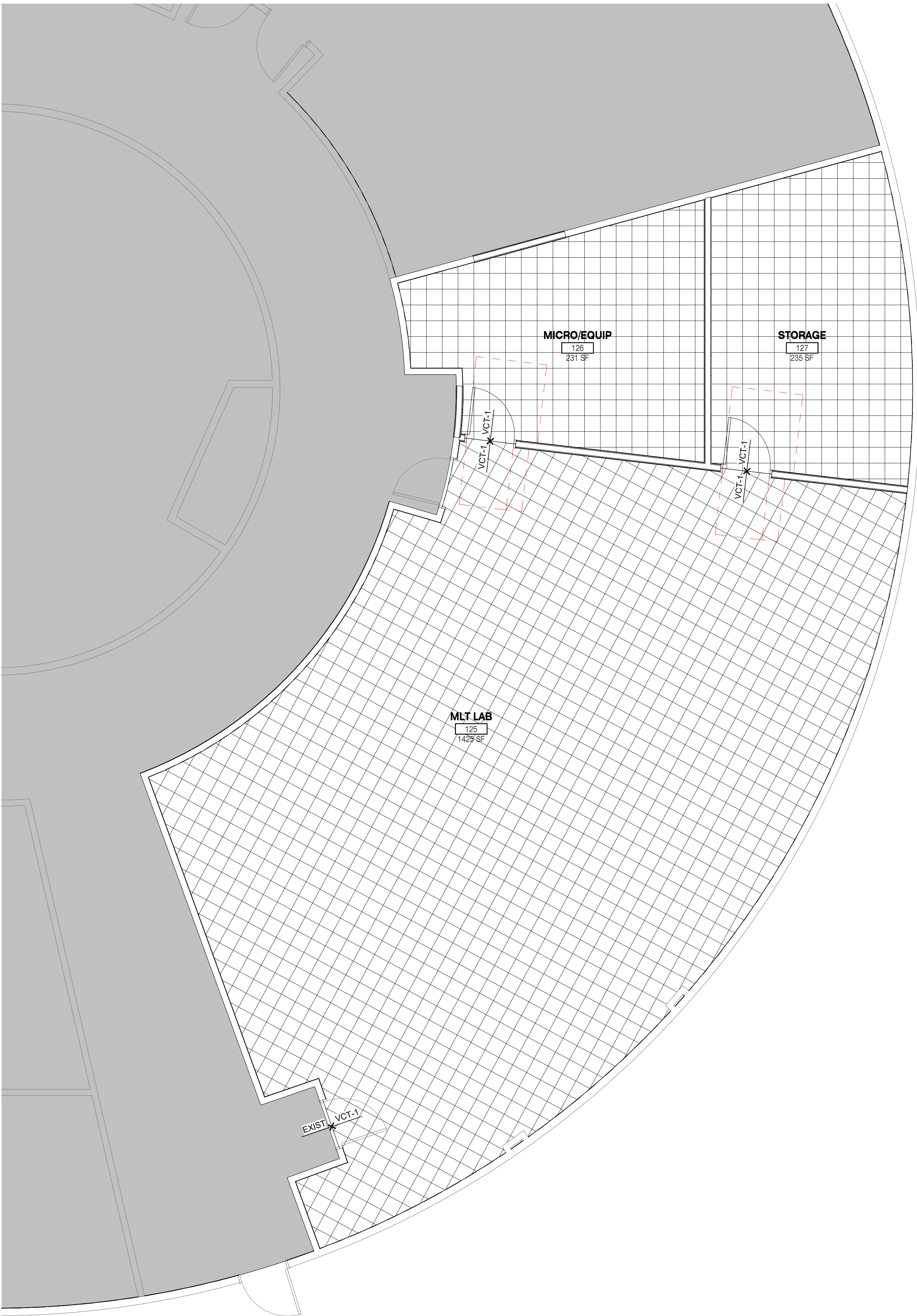
DOPL

PA#: 1623597
Date: 6/6/2025

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DOPL

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ROOM FINISH SCHEDULE

ROOM #	NAME	BASE	FLOOR	WALLS	CEILING	REMARKS
125	MLT LAB	RB-1	VCT-1	PT-1	ACT-1	
126	MICROEQUIP	RB-1	VCT-1	PT-1	ACT-1	
127	STORAGE	RB-1	VCT-1	PT-1	ACT-1	

FINISH LEGEND

MANUFACTURER: STYLEMODEL - COLOR

PAINT
PT-1 SHERWIN WILLIAMS PROMAR 200, SHEEN: SEMI-GLOSS, COLORS TO BE SELECTED BY OWNER

VINYL COMPOSITION TILE
VCT-1 ARMSTRONG STANDARD EXCELON, COLOR #51903, BLUE GREY

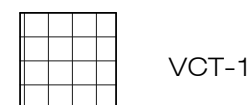
WALL BASE
RB-1 FLEXCO RUBBER BASE, 4", COLOR TO BE SELECTED BY OWNER

PLASTIC LAMINATE
PLAM-1 WILSONART LAMINATES, COLOR TO BE SELECTED BY OWNER

ACOUSTICAL CEILING
ACT-1 ARMSTRONG FINE FISSURE DROP-IN TILE 24" X 48" X 3/4" WHITE

EPOXY RESIN
EXPY-1 DURCON

FINISH PLAN LEGEND



TRANSITIONS / EDGES

RESILIENT ACCESSORIES

- (RESILIENT) (CARPET)
- (RESILIENT) (CARPET) WHEELED TRAFFIC
- (RESILIENT EDGE)
- (STAIR NOSING)

TILE ACCESSORIES (METAL)

- (TILE) (RESILIENT)
- (TILE) (CARPET) SAME HEIGHT
- (TILE) (CARPET)
- (TILE) (CONCRETE)

NOTES:

- PROVIDE RESILIENT FLOORING ACCESSORIES AT FLOORING MATERIAL TRANSITIONS AND OPEN EDGES, COLOR TO MATCH RESILIENT FLOORING.
- PROVIDED SATIN ANODIZED ALUMINUM TILE ACCESSORIES AT FLOORING MATERIAL TRANSITIONS AND OPEN EDGES.

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ISSUE DATE: 05.20.2025

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LICENSED ARCHITECT
AR-866427

ERIC MATTHEW ROBERTS
STATE OF IDAHO
05/21/2025

FINISH PLAN

LCSC MLT LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240128

A10-20

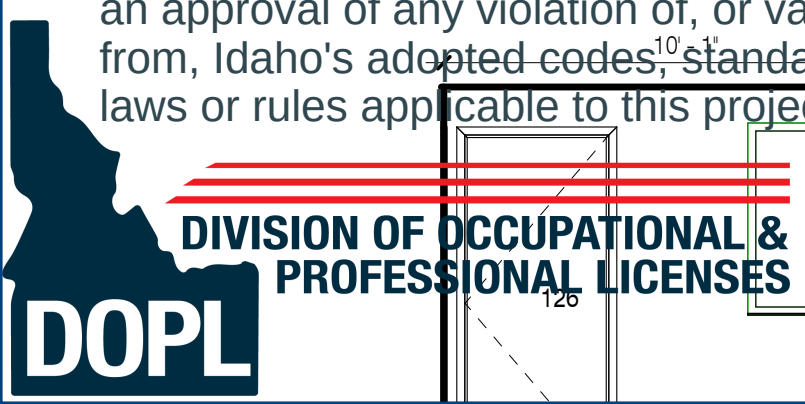


FINISH PLAN - LEVEL 1

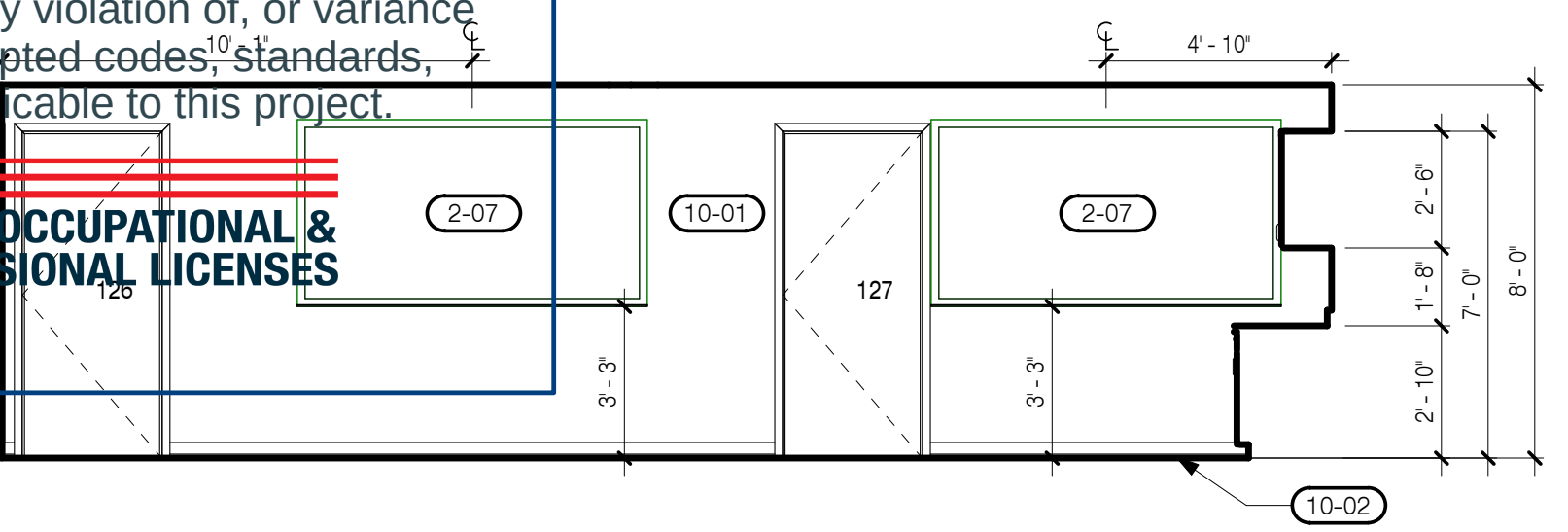
1/4" = 1'-0"

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

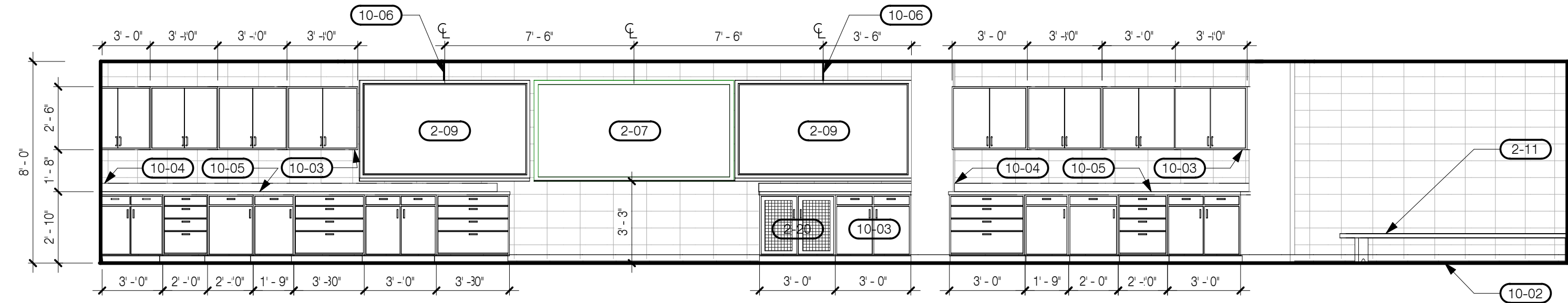
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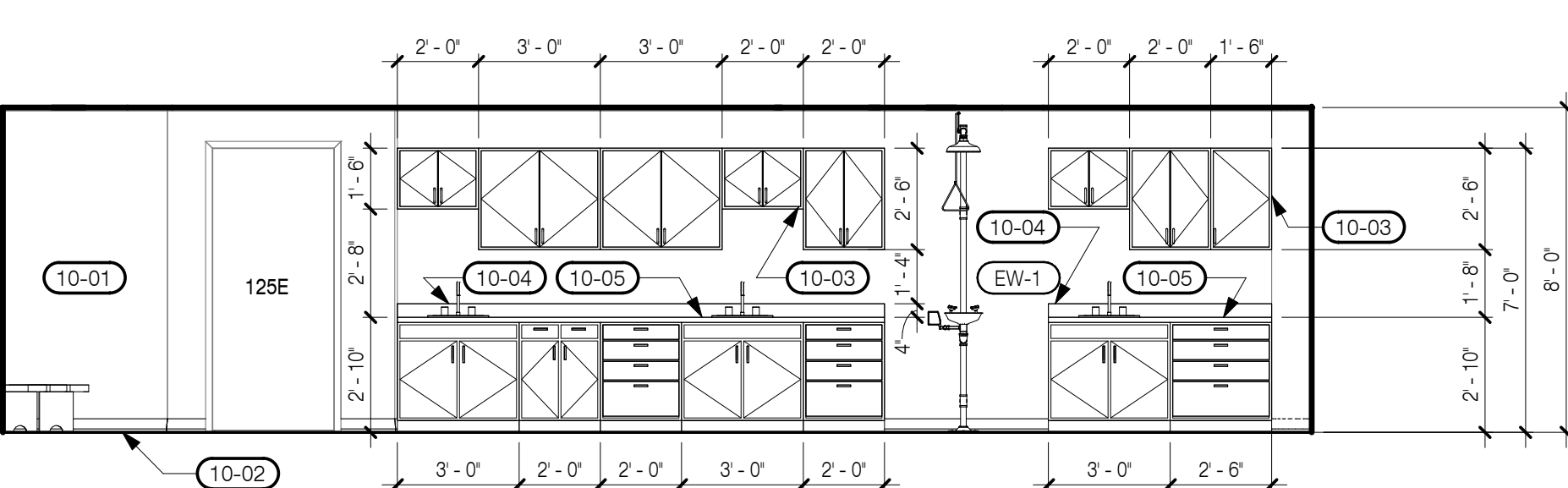
1 125 MLT LAB NORTH
1/4" = 1'-0"



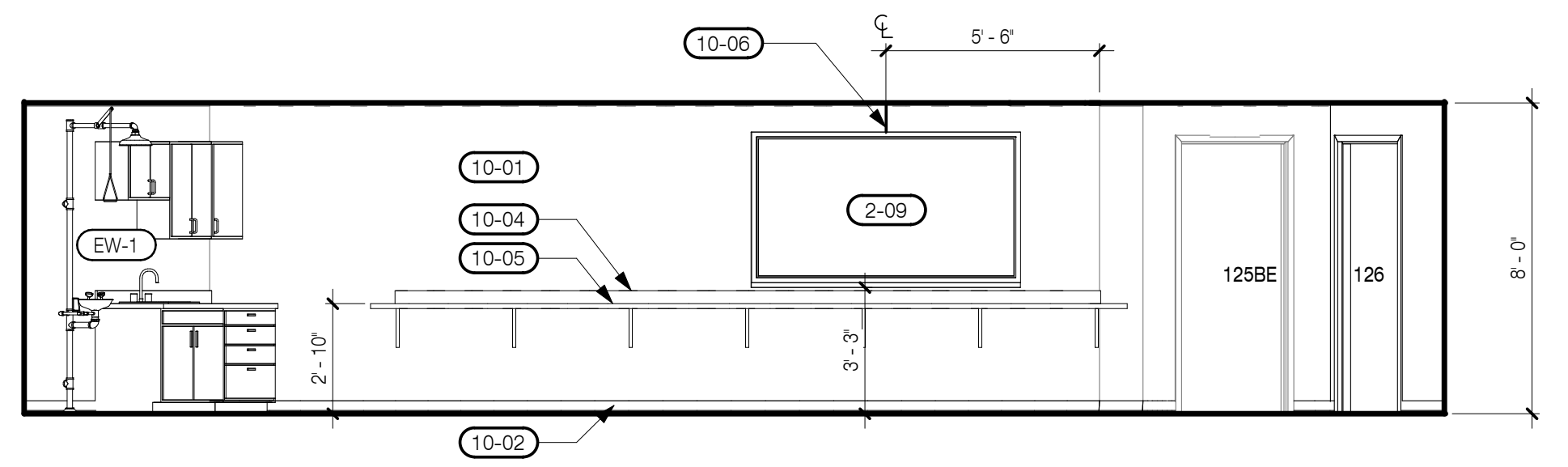
2 125 MLT LAB EAST
1/4" = 1'-0"



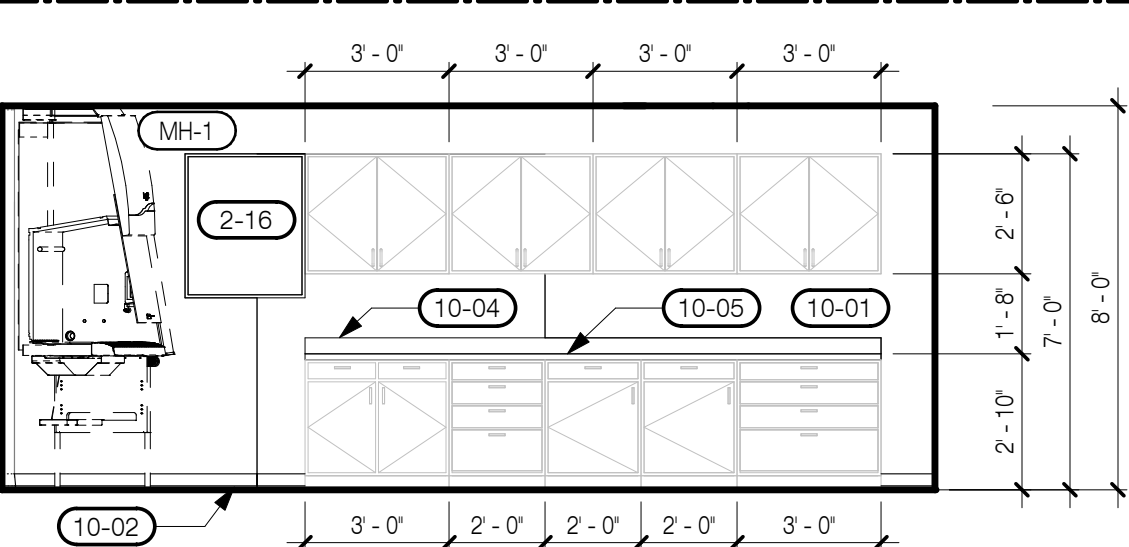
3 125 MLT LAB SOUTH
1/4" = 1'-0"



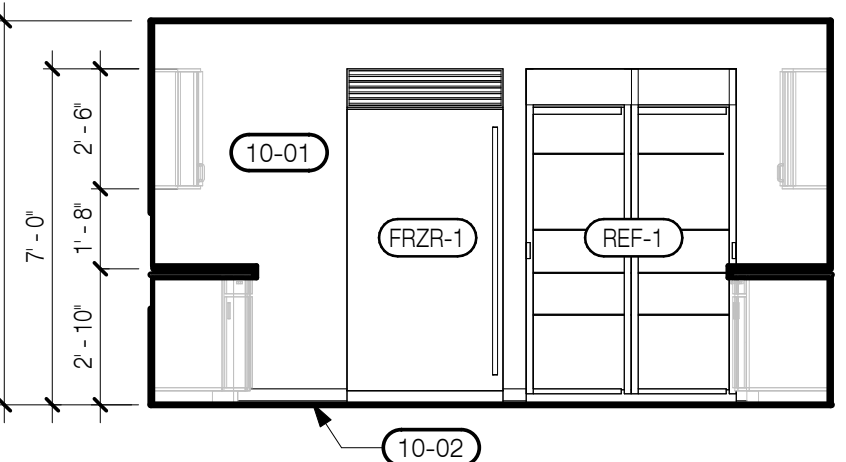
4 125 MLT LAB WEST
1/4" = 1'-0"



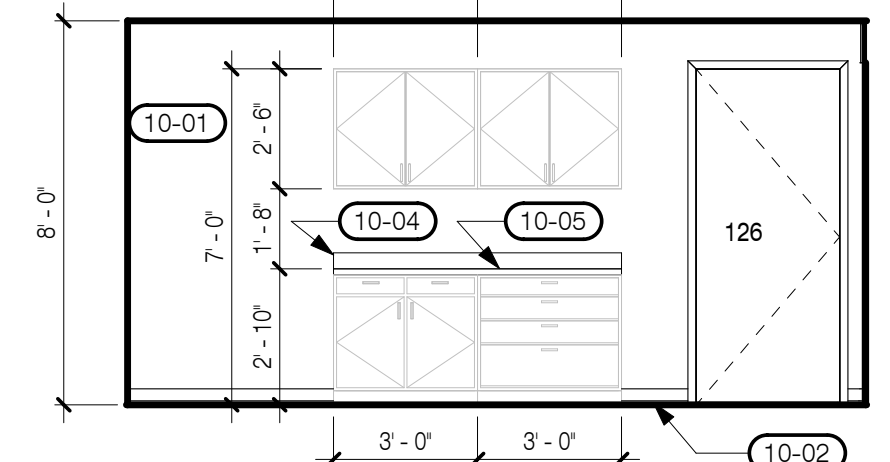
5 126 MICRO/EQUIP NORTH
1/4" = 1'-0"



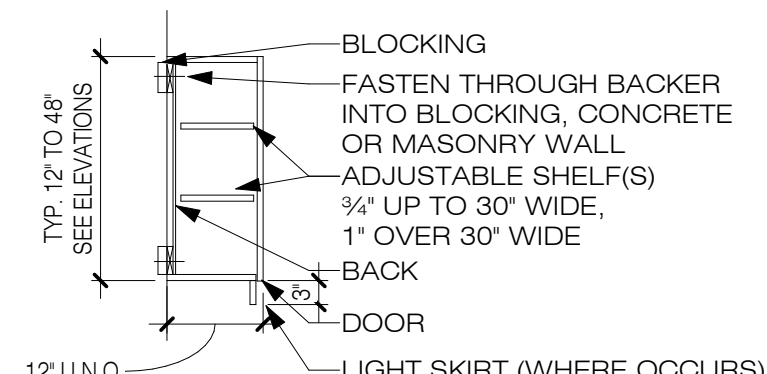
6 126 MICRO/EQUIP EAST
1/4" = 1'-0"



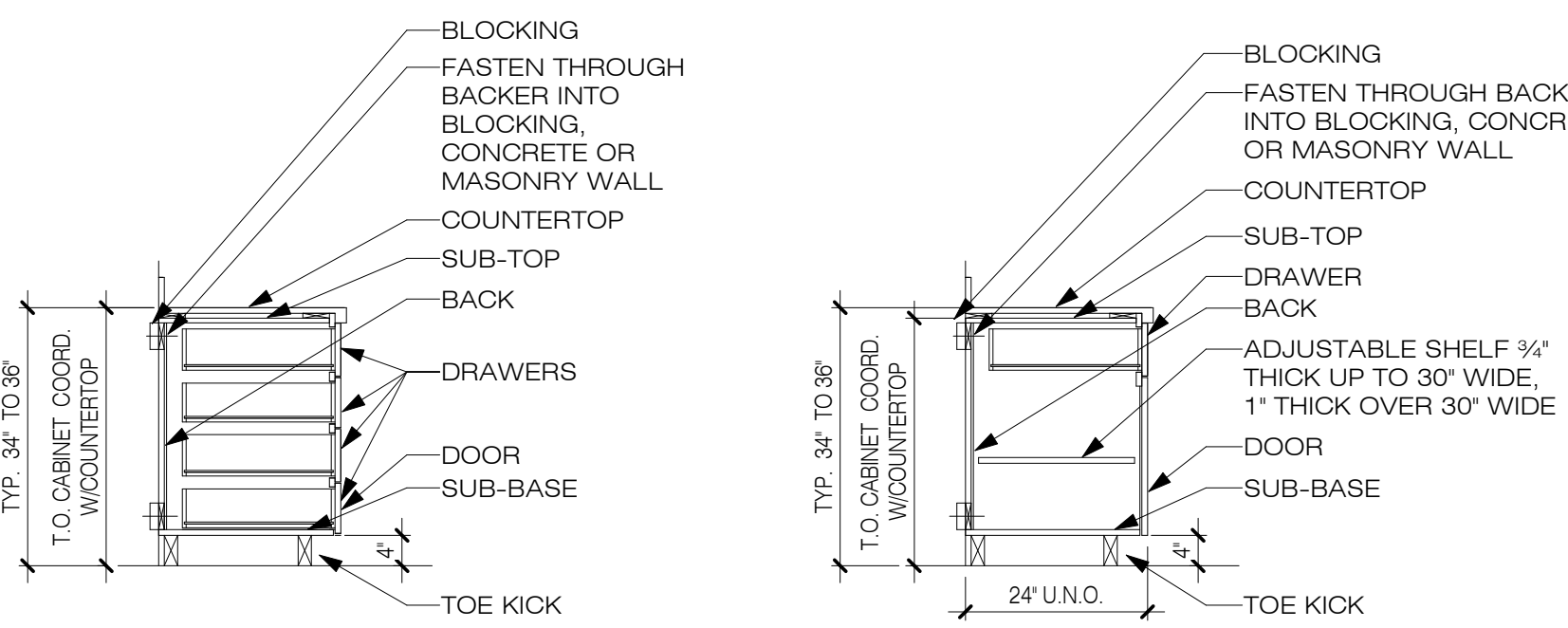
7 126 MICRO/EQUIP SOUTH
1/4" = 1'-0"



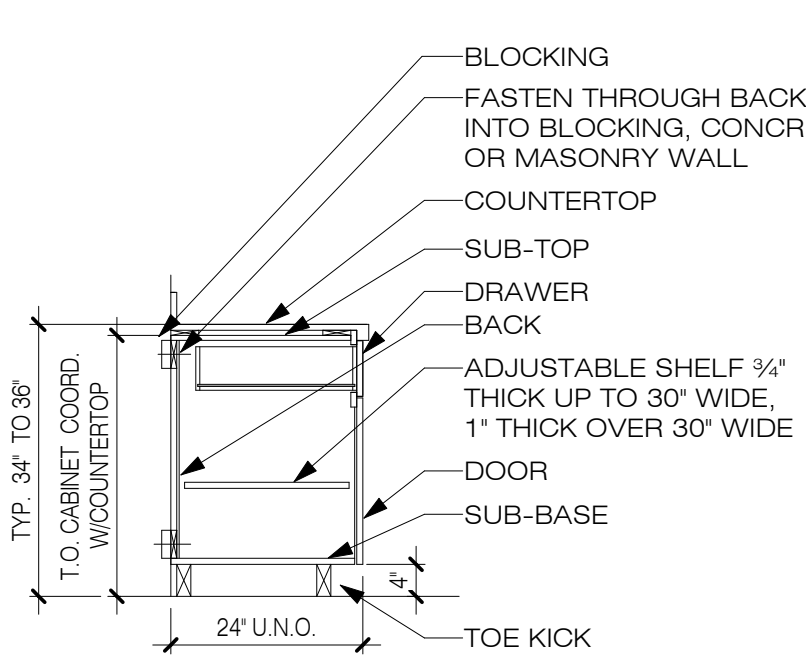
8 126 MICRO/EQUIP WEST
1/4" = 1'-0"



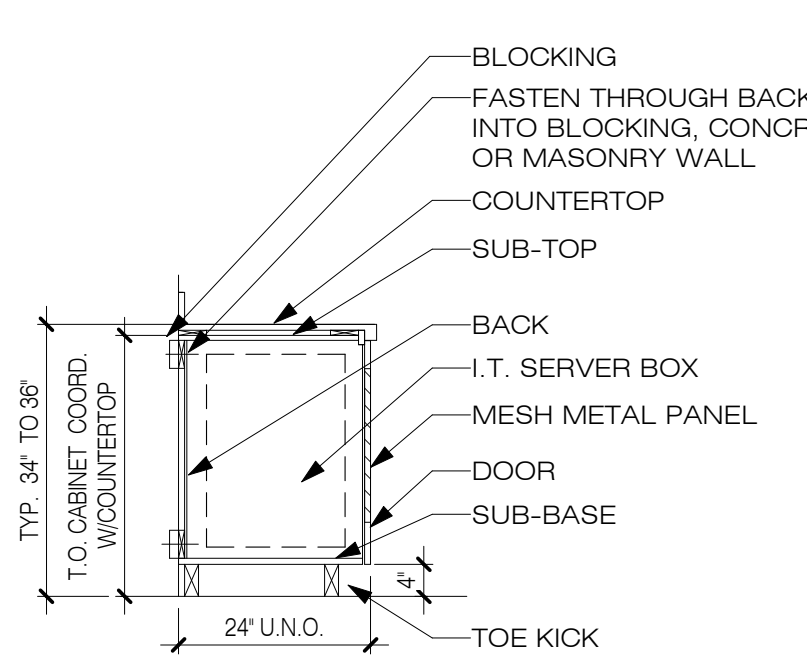
A - WALL HUNG CABINET



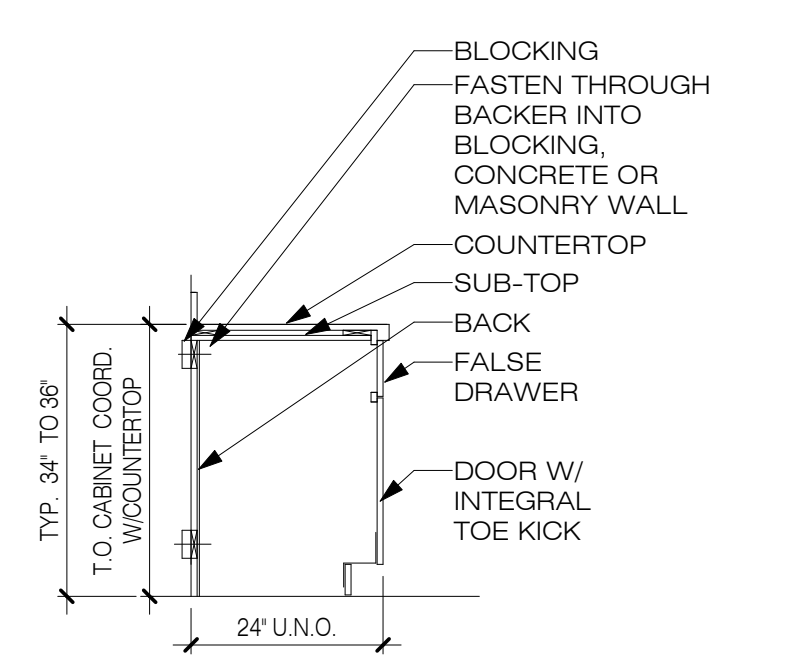
B - 4 DRAWER FILE CABINET



C - BASE DRAWER CABINET



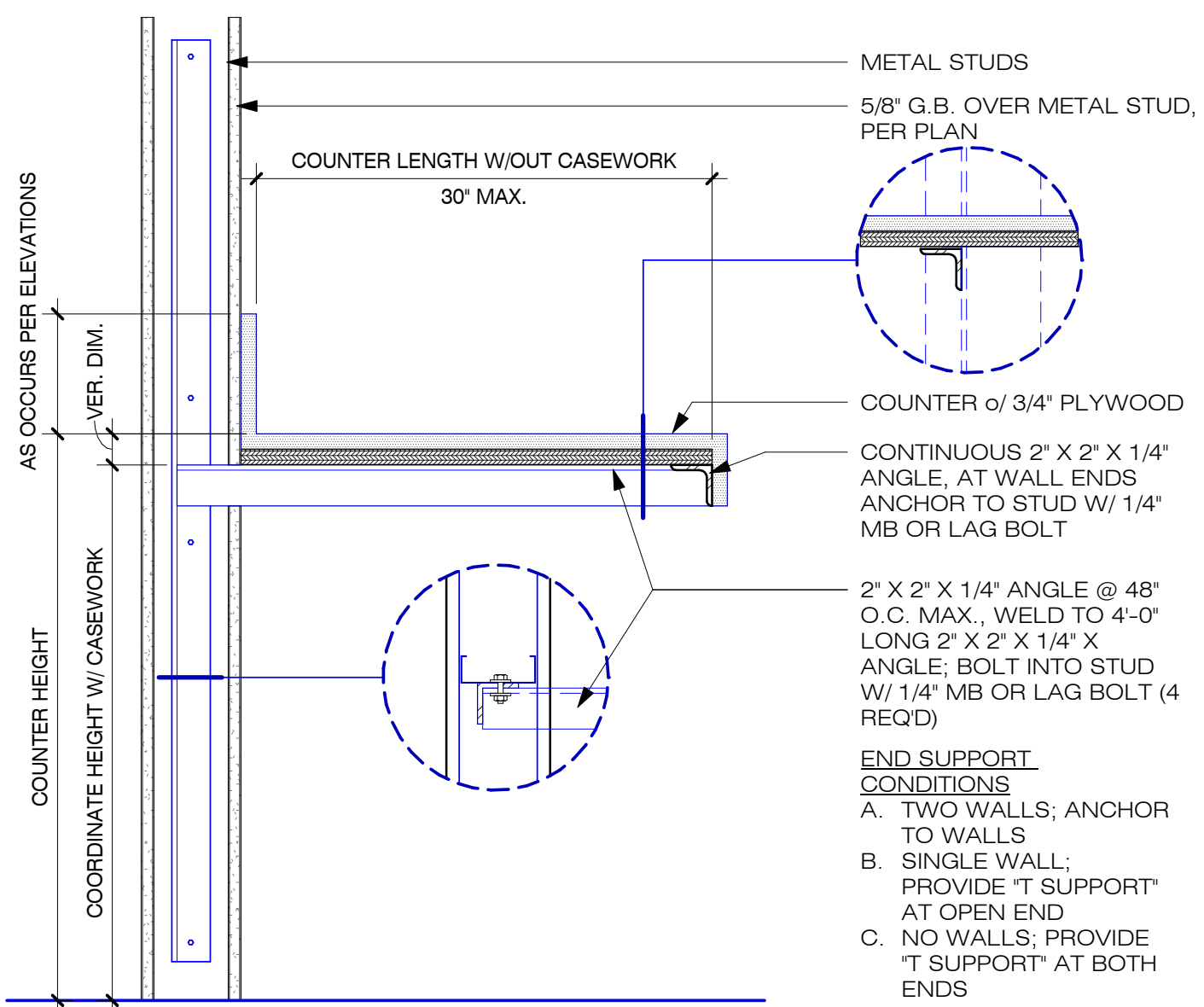
D - I.T. SERVER BOX CABINET



E - TKC CABINET

TYPICAL CABINET SECTIONS

F COUNTER SUPPORT
1 1/2" = 1'-0"



SHEET CASEWORK NOTES

- A. THIS SHEET ILLUSTRATES STANDARD CABINET SECTIONS PROFILES. REFER TO ELEVATIONS AND KEYED SECTIONS FOR PROJECT SPECIFIC CONDITIONS.
- B. PROVIDE FILLER & FILLER PANELS WHERE SHOWN ON ELEVATIONS OR NECESSARY. SCRIBE TO WALL. FINISH TO MATCH EXPOSED CABINETS SURFACES.
- C. PROVIDE BLOCKING IN WALLS AND PARTITIONS AT ALL CABINETRY LOCATIONS.
- D. CABINETS SHALL BE SECURED TO WALL WITH A MIN. 3/8" 10 DIAMETER SCREW WITH A SURFACE BEARING HEAD. AT EXPOSED INTERIOR SURFACES, COVER CAPS OF COMPATIBLE COLOR TO INTERIOR ARE REQUIRED. FASTENERS SHALL BE SPACED AT 16" O.C. MAX. EACH CABINET OR UNIT SHALL HAVE A MIN. OF FOUR (4) FASTENERS; TWO AT TOP AND TWO AT BOTTOM.
- E. ADJACENT CABINET UNITS TO BE FASTENED TOGETHER AT THE FRONT WITH A MINIMUM OF TWO #8 X 1-1/4" (81,7 MM) FLAT, OVAL, OR PAN HEAD SCREWS, A MAXIMUM OF 30" (762 MM) ON CENTER, AND BINDER HEAD SEX BOLTS ARE PERMITTED. AT EXPOSED INTERIOR SURFACES, COVER CAPS OF COMPATIBLE COLOR TO INTERIOR ARE REQUIRED.
- F. GLASS PANELS WHERE INDICATED ARE 1/4" CLEAR TEMPERED GLASS, U.N.O.
- G. PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACES AND AT BOTTOM OF UPPER CABINETS TO CLOSE OFF ALL CONCEALED SPACES.
- H. CABINET HARDWARE SHALL CONFORM TO ANSI/BHMA STANDARDS (LATEST EDITION), FOR QUALITY GRADE SPECIFIED.
- I. DOOR PULLS SHOULD BE PLACE 2-1/2" UP FROM THE BOTTOM OF THE DOOR FOR UPPER CABINETS.
- J. DOOR PULLS SHOULD BE PLACE 2-1/2" DOWN FROM THE TOP OF THE DOOR FOR LOWER CABINETS.
- K. DOOR PULLS FOR TALL DOORS OR MIDDLE CABINET DOORS SHOULD BE CENTERED VERTICALLY ON THE DOOR.
- L. DRAWER PULLS SHOULD BE CENTERED HORIZONTALLY AND VERTICALLY ON STANDARD DRAWERS.
- M. DRAWER PULLS SHOULD BE PLACED 2-1/2" DOWN FROM THE TOP OF THE DRAWER FOR DEEP OR FILE DRAWERS.
- N. FILE CABINET WIDTHS ARE 15" FOR LETTER OR 19" FOR LEGAL SIZE PAPER STORAGE. THE MAXIMUM WIDTH FOR LATER FILE CABINETS IS 36" FILE DRAWERS SHALL BE 150# RATED U.N.O. AND PROVIDED WITH METAL HANGING RAILS AND PLASTIC TRACKS.
- O. DOOR HINGES SHALL BE 120 DEGREE OPENING.
- P. PROVIDE SELF-ADHESIVE RUBBER DISC DOOR AND DRAWER BUMPERS AT ALL DOOR AND DRAW LOCATIONS.

PROJECT NOTES

- CASEWORK GRADING
 - A. ALL CASEWORK SHALL BE **CUSTOM** GRADE IN ACCORDANCE WITH AWS SPECIFICATIONS, U.N.O.
 - B. ALL CASEWORK IN STORAGE, JANITOR AND/OR UTILITY ROOMS SHALL BE **ECONOMY** GRADE IN ACCORDANCE WITH AWS SPECIFICATIONS, U.N.O.
- CABINET CONSTRUCTION TYPE & DOOR INTERFACE STYLES
 - A. ALL CASEWORK SHALL BE **FRAMELESS** CONSTRUCTION TYPE WITH **FLUSH OVERLAY** DOOR INTERFACE STYLE, AND **FLUSH** DRAWER AND DOOR FRONTS, U.N.O.
- COUNTERTOPS, CONFIGURATIONS & COUNTERTOP EDGES
 - A. ALL COUNTERTOPS SHALL BE **SOLID SURFACE**, **BUILD UP** EDGE AND **BUTT** SPLASH WITH **SQUARE** TOP, U.N.O.
 - B. PROVIDE MATCHING SIDE AND BACKSLASHES WHERE COUNTERTOPS ABUT A VERTICAL WALL SURFACE.
- DOOR & DRAWER STYLES
 - A. ALL DOOR AND DRAWERS TO BE **FLUSH** STYLE, U.N.O.
- EDGE BANDING
 - A. ALL EXPOSED DOOR, DRAWER, AND SHELF EDGES SHALL BE **SQUARE HIGH PRESSURE DECORATIVE LAMINATE** TO MATCH EXTERIOR CABINET SURFACES, U.N.O.
 - B. ALL TOE KICKS SHALL MATCH CABINET EXPOSED EXTERIOR SURFACE.
- CABINET HARDWARE
 - A. COUNTERTOP GROMMETS WHERE INDICATED SHALL BE 2-Piece PLASTIC, 2" DIA., BLACK, U.N.O. SEE PLANS FOR LOCATIONS.
 - B. PROVIDE VERTICAL DOOR & HORIZONTAL DRAWER PULLS, **METAL WIRE PULL**, U.N.O.
 - C. HINGES SHALL BE EUROPEAN STYLE (INSET), U.N.O.
 - D. ADJUSTABLE SHELVING SYSTEMS SHALL BE RECESSED STEEL PILASTERS W/ STEEL SHELF SUPPORTS, U.N.O.
- CABINET FINISHES
 - A. ALL EXPOSED TO VIEW EXTERIOR CABINET SURFACES SHALL BE HIGH PRESSURE DECORATIVE PLASTIC LAMINATE, U.N.O.
 - B. ALL EXPOSED TO VIEW INTERIOR SURFACES SHALL BE HIGH PRESSURE DECORATIVE PLASTIC LAMINATE, U.N.O.
 - C. ALL INTERIOR (SEMI-EXPOSED) SURFACES SHALL BE HIGH PRESSURE DECORATIVE LAMINATE, COLOR=WHITE, U.N.O.

KEYNOTES

2-07	REINSTALL EXISTING WHITE BOARDS
2-09	DISPLAY MONITORS WITH MONITOR MOUNTS. CHIEF LTMU - C.F.C.I.
2-11	FURNITURE TO BE C.F.C.I.
2-16	REINSTALL EXISTING SERVER BOX
2-20	NEW CABINET TO HOST I.T. SERVER BOX. NEED POWER AND PATHWAY FOR NETWORK CONNECTION
10-01	FIELD PAINT PT-1
10-02	WALL BASE, RB-1
10-03	CABINETS, PLAM-1
10-04	BACKSPLASH, EPHY-1
10-05	COUNTER TOP, EPHY-1
10-06	CONDUIT LINE TO MONITORS, SEE ELECTRICAL

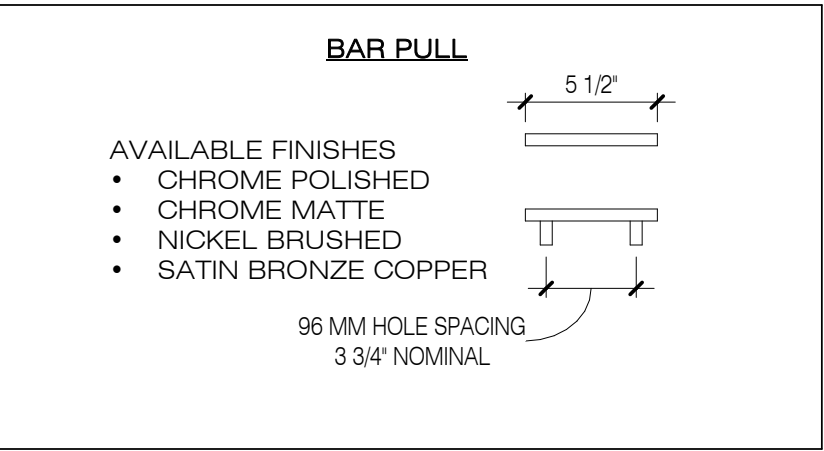
EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
EW-1	EYEWASH STATION	ACORN SAFETY	ST320-HFC	C.F.C.I.
FRZR-1	ISOTEMP FREEZER	FISHER	FBG3225FA	C.F.C.I.
MH-1	BIOHAZARD CABINET	LABCONO	PURIFIER LOGIC CLASS II A2	C.F.C.I.
REF-1	ISOTEMP REFRIGERATOR	FISHER	FBG4035GA	C.F.C.I.
REF-2	ISOTEMP REFRIGERATOR	FISHER	FBG2305GA	C.F.C.I.

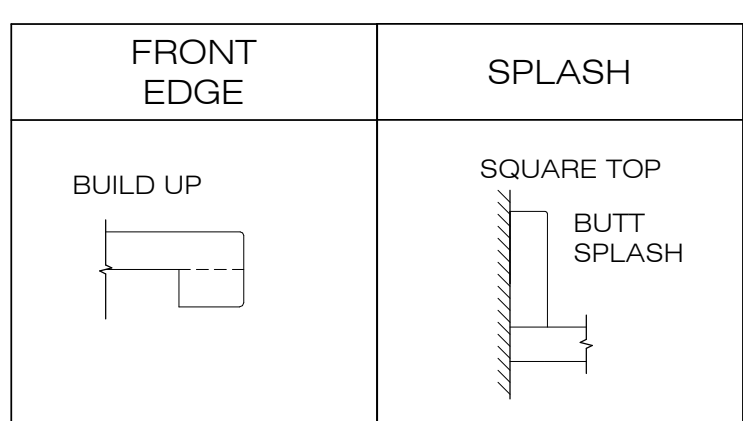
CASEWORK CONFIGURATIONS

CONSTRUCTION TYPE	DOOR INTERFACE STYLES	DRAWER & DOOR STYLES	EDGE BANDING
FACE FRAME	FLUSH OVERLAY	STILE AND RAIL	SQUARE W/ THK. APPLIED

CABINET HARDWARE



COUNTERTOPS



CASEWORK & COUNTERTOP SCHEDULE

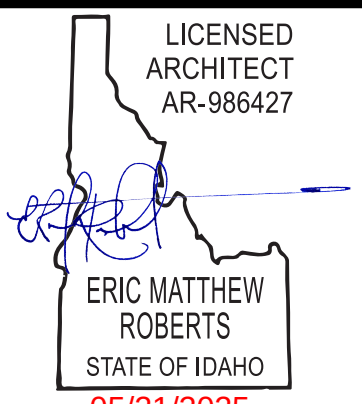
ALL EXPOSED CASEWORK SURFACES WILL BE: WILSONART; PLASTIC LAMINATES; TO BE SELECTED BY OWNER

ALL COUNTERTOPS SHALL BE: WILSONART; PLASTIC LAMINATES; TO BE SELECTED BY OWNER



ISSUE DATE: 05.20.2025

REV DATE COMMENT



INTERIOR ELEVATIONS

LCSC MLT LAB

Sam Glenn Complex 500 4th St. Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

A10-30

from Idaho's adopted codes, standards or rules applicable to this project.

IA	=	INTEGRATED DOOR
ICU	=	INTENSIVE CARE UNIT DOOR
MCS	=	METAL CASE
NL	=	NARROW LEAF
RDE	=	REVOLVING DOOR ENTRANCE
SG	=	SLIDING GLASS DOOR
SWG	=	SLIDING METAL GRILLE

DIVISION OF OCCUPATIONAL & PROFESSIONAL LICENSES

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GENERAL NOTES

- A. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- B. DOOR OPERATING DEVICES SHALL BE LEVER OPERATED, PUSH TYPE OR U-SHAPED HANDLES PER ANSI A117.1.
- C. ALL DOORS 10' OR ALL DOORS SHALL BE PROVIDED WITH A SMOOTH SURFACE TO ALLOW THE DOOR TO BE OPENED WITH A WHEELCHAIR FOOTREST PER ANSI A117.1.
- D. EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED AS NOTED ON THE EXTERIOR ELEVATIONS AND ON THE INTERIOR SIDS AS NOTED PER THE DOOR SCHEDULE.
- E. HARDWARE: ALL HARDWARE SHALL COMPLY WITH APPLICABLE PROVISIONS OF AIA STANDARDS AND ICC A117.1. REFER TO HARDWARE SETS FOR FINISH, DESCRIPTIONS, REQUIREMENTS AND SCHEDULE.
- F. DOOR JAMB, HEAD AND SILL DETAILS AS INDICATED REFLECT DESIGN INTENT, LOCATIONS, AND PROFILES. DETAILS NOT SHOWN SHALL BE SIMILAR IN CHARACTER TO THOSE DETAILS.
- G. WHERE NOT CLEARLY DEFINED, CLARIFICATIONS SHALL BE REQUESTED BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- H. ALL EXTERIOR DOORS SHALL BE WEATHER STRIPPED.
- I. ALL THRESHOLDS PROVIDED SHALL BE A MAXIMUM OF 1/2" HEIGHT ABOVE FINISH FLOOR. SEE 10GO-10.
- J. ADJUST ALL DOORS NOT TO EXCEED TO THE MAXIMUM OPERATIONS EFFORT ALLOWED BY CODE.
- K. UNITS SHOWN NOT CHECKED SHALL BE PROTECTED BY A TIGHT FITTING SMOKE AND DRAFT CONTROL ASSEMBLY. THE LABELED ASSEMBLY SHALL BE SELF-CLOSING OR AUTOMATIC CLOSING AND SHALL BE PROVIDED WITH A CONTINUOUS GASKET ALONG THE STOP AT THE DOOR JAMB AND HEAD.

<u>HARDWARE SET 01:</u>		
(1) CLASSROOM LEVEL	L9070 P	SCHLAGE
(3) HINGES	58B1HW/	IVES
(1) DOOR CLOSER	LCN 4000	ALLEGION
(1) DOOR STOP	90 SERIES	GLYNN JOHNSON

ALL HARDWARE REQUIRES REVIEW AND APPROVAL OF LCSC ACCESS CONTROL DEPARTMENT.

<u>HARDWARE SET 01:</u>			<u>REMARKS</u>
(1) CLASSROOM LEVEL	L9070 P	SCHLAGE	1. ACCESS CONTROL

REV	DATE	COMMENT
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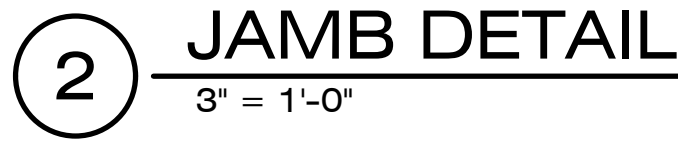
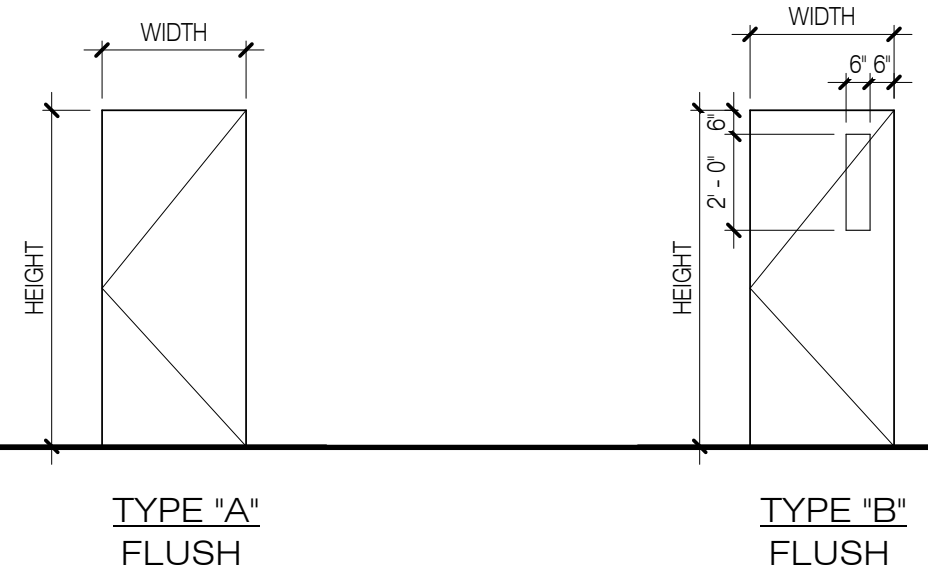
DOOR AND FRAME ABBREVIATIONS AND DOOR SCHEDULE

LCSC MLT LAB

Sam Glenn Complex, 500 4th St. Lewiston, ID 83501

Lewis Clark State College

DOOR TYPES



Approved
State of Idaho
DOPL

PA#: 1623597
Date: 6/6/2025
These plans are approved contingent on the compliance with the mark-ups and notes applied.
This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.

DIVISION OF OCCUPATIONAL & PROFESSIONAL LICENSES

ISSUE DATE: 05.20.2025

REV DATE COMMENT

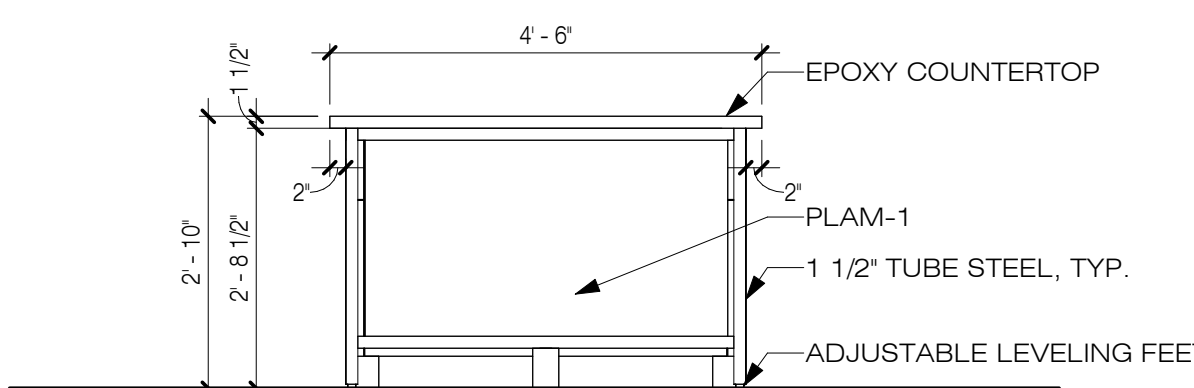
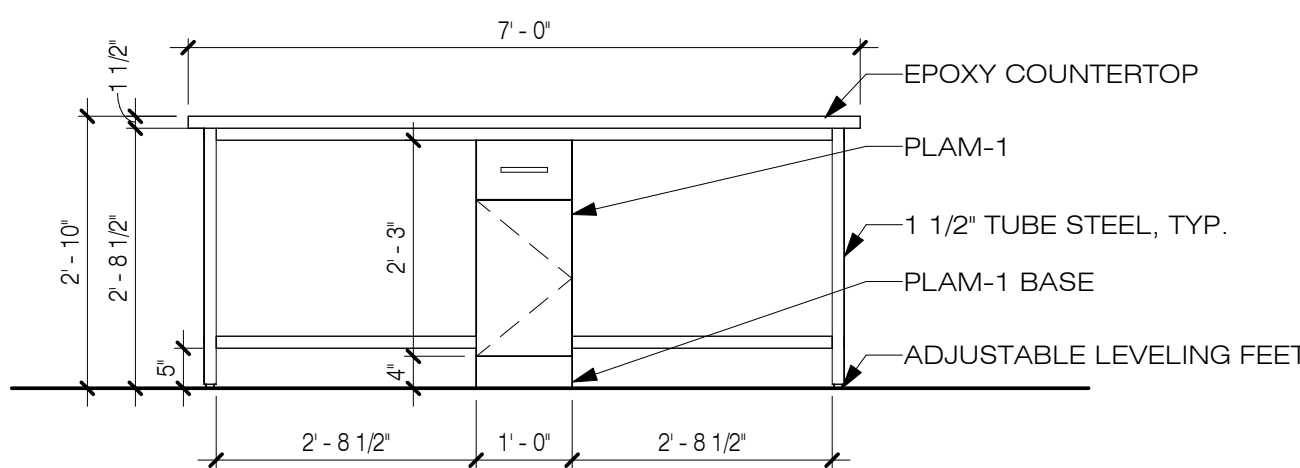
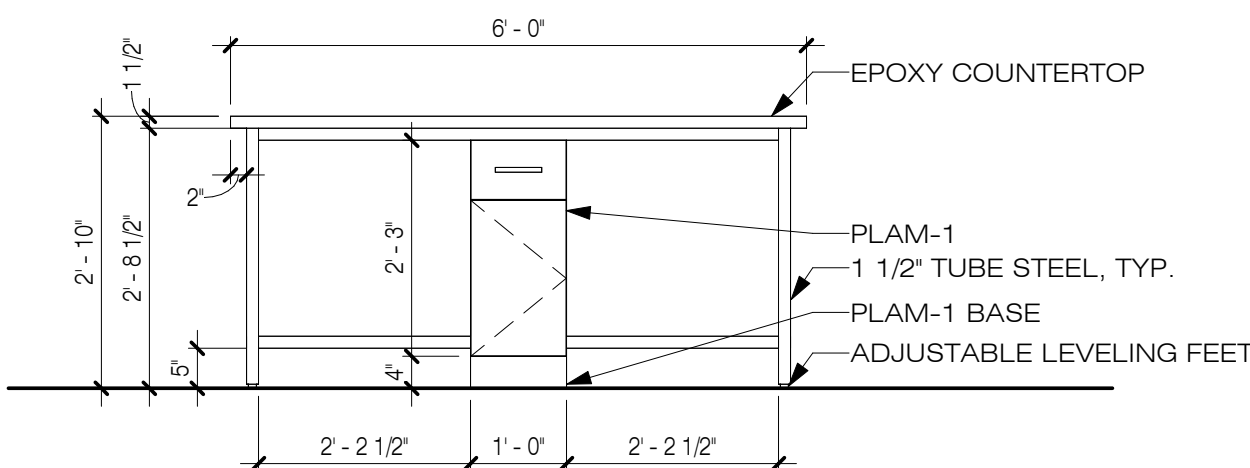
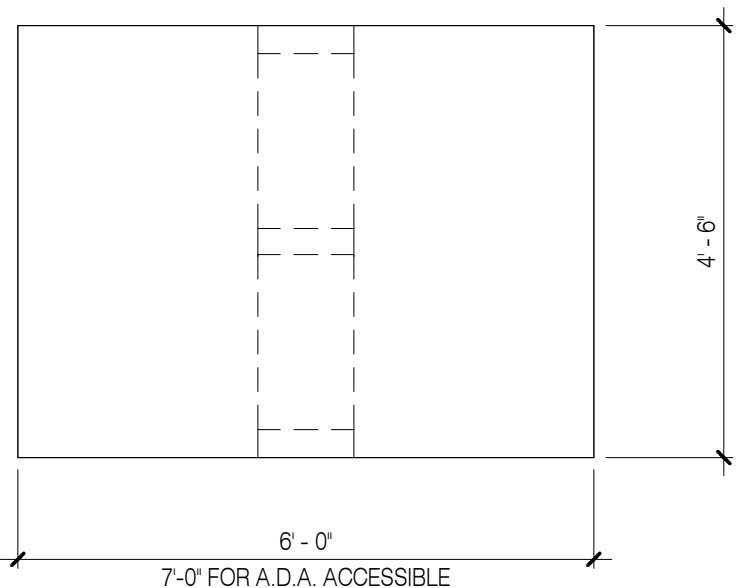
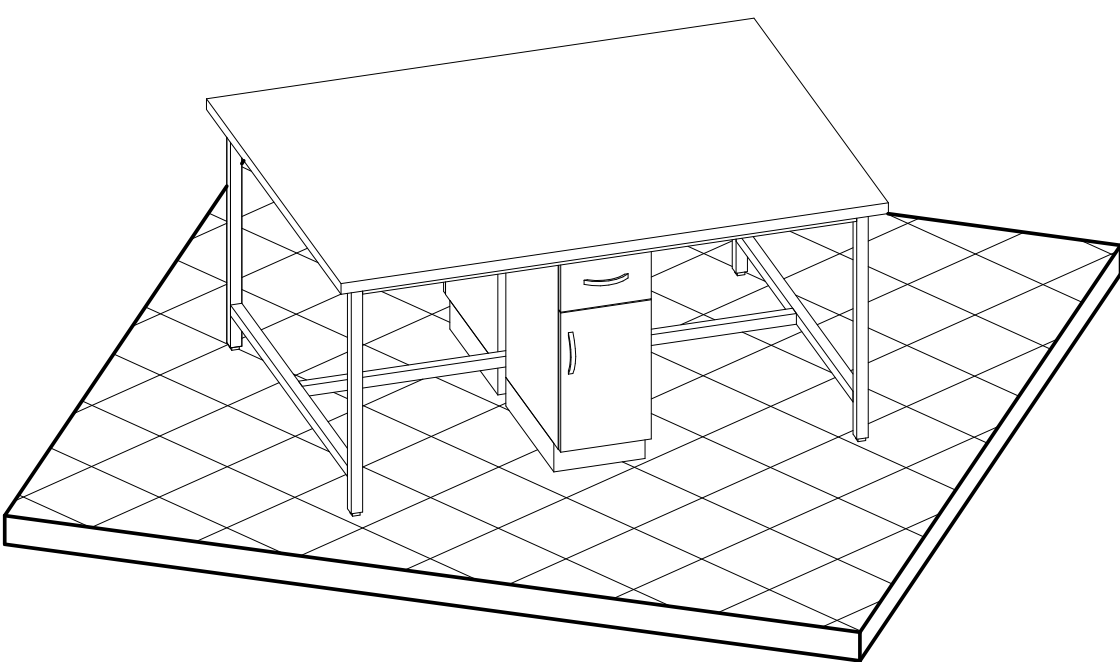
LICENSED ARCHITECT
AR-886427
ERIC MATTHEW ROBERTS
STATE OF IDAHO
05/21/2025

CASEWORK DETAILS
LCSC MLT LAB
Sam Clem Complex 500 4th St. Lewiston, ID 83501
Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240128

A12-10



3 ALTERNATE NO. 1 - FOUR SEAT LAB TABLE (QTY. 4)

4 FOUR SEAT LAB TABLE A
1/2" = 1'-0"

5 FOUR SEAT LAB TABLE A.D.A
1/2" = 1'-0"

6 FOUR SEAT LAB TABLE B
1/2" = 1'-0"

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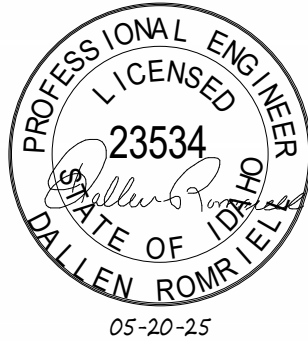
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*** NOTE ***
THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN
THIS SET OF DRAWINGS.

MECHANICAL SHEET INDEX	
M0-01	MECHANICAL TITLE SHEET
M0-02	MECHANICAL GENERAL NOTES
M0-03	MECHANICAL SPECIFICATIONS
M0-04	PLUMBING SPECIFICATIONS
M01-01	LEVEL 1 MECHANICAL DEMO PLAN
M1-01	LEVEL 1 MECHANICAL HVAC PLAN
PD1-01	LEVEL 1 PLUMBING DEMO PLAN
P1-01	LEVEL 1 PLUMBING PLAN
FD1-01	LEVEL 1 FIRE PROTECTION DEMO PLAN
F1-01	LEVEL 1 FIRE PROTECTION PLAN



REV	DATE	COMMENT
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Lewis Clark State College

CLIENT

M0-01

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- FIRE PROTECTION GENERAL NOTES
1.

NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
2.

ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
3.

COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
4.

FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED. IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS, COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
5.

PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
6.

THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
7.

THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
8.

THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
9.

REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
10.

DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
11.

ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
12.

THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
13.

AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
14.

AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS, ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
15.

SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
16.

ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. BRANCH LINE TO ENTER ROOM ABOVE DOOR.
17.

THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

- PLUMBING GENERAL NOTES
1.

UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/4" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT. VERIFY ALL SLOPING WITH LOCAL CODES.
2.

ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
3.

PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
4.

NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
5.

CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
6.

REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
7.

SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TOP/ROM SINGLE FIXTURE.
8.

FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
9.

FIELD VERIFY ALL NEW WATER, WASTE AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
10.

WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR TO BE 2" MINIMUM.
11.

INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING:

A.

SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.

B.

LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.

C.

LOCATE AT THE BASE OF EACH VERTICAL STACK.

- MECHANICAL GENERAL NOTES
1.

COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
2.

SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
3.

BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK/INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
4.

COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
5.

DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER AND ADJUST SHEET METAL DIMENSION.
6.

PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
7.

THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.

- PROJECT GENERAL NOTES
1.

THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
2.

REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
3.

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE TENANT SPACE AND WITHIN CLOSE PROXIMITY TO THE TENANT SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
4.

WHERE FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
5.

COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILINGS, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
6.

THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
7.

FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
8.

ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
9.

FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
10.

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
11.

IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
12.

DETAILS REFERENCE ALL SHEETS.
13.

INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING.

* NOTE *

ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

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THESE DOCUMENTS HAVE BEEN PRODUCED AS AN INSTRUMENT OF SERVICE AND ARE INTENDED SOLELY FOR THE PURPOSE OF CONTRACTING, SELLING AND MAINTAINING THE PROJECT. KNIT AS THE ARCHITECT OF RECORDS FOR THE PROJECT RETAINS OWNERSHIP OF THESE DOCUMENTS.

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(509) 326-3403 | info@resolutgroup.com
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Project #: 250146

ISSUE DATE: 05.20.2025

REV DATE COMMENT

MECHANICAL GENERAL NOTES

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

M0-02

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Autodesk Docs/240218 - LCSC Med Lab

TECH_2024.rvt

Project: 1623597

Date: 6/6/2025

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APPROVED

State of Idaho

DOPL

PROFESSIONAL LICENSES

1.01 DESCRIPTION

WORK INCLUDED: FURNISH ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND NECESSARY INCIDENTALS FOR THE COMPLETE INSTALLATION OF ALL HEATING, VENTILATION AND AIR CONDITIONING AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE MECHANICAL CODES AND STANDARDS OF THE STATE OF IDAHO, UNLESS INDICATED OTHERWISE.

ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE MECHANICAL CODES AND STANDARDS OF THE STATE OF IDAHO, UNLESS INDICATED OTHERWISE.

CONNECTIONS AS INDICATED ON WIRING DIAGRAMS.

CONDUIT FOR LINE AND LOW VOLTAGE WIRING FOR MECHANICAL CONTROLS AS INDICATED ON WIRING DIAGRAMS.

RESPONSIBILITY FOR OBTAINING CLARIFICATION OF DISCREPANCIES BETWEEN MECHANICAL AND ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

OPERATION OF AUTOMATIC ELECTRICAL CONTROLS AND POWER DRIVEN EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE OWNER.

RELATED WORK IN OTHER SECTIONS:

1. ELECTRICAL WORK AS FOLLOWS WILL BE PROVIDED UNDER ELECTRICAL DIVISION:

CONDUIT FOR LINE VOLTAGE WIRING FOR EQUIPMENT AND DEVICES AS INDICATED OR SPECIFIED EXCEPT CONDUIT FOR LINE AND LOW VOLTAGE WIRING FOR MECHANICAL CONTROLS AS SPECIFIED UNDER DIVISION 15.

LINE VOLTAGE WIRING FOR EQUIPMENT AND DEVICES AS INDICATED OR SPECIFIED HEREIN EXCEPT LINE AND LOW VOLTAGE WIRING FOR MECHANICAL CONTROLS AS SPECIFIED UNDER DIVISION 15.

PROVIDING DISCONNECT SWITCHES

INSTALLING ELECTRICAL DEVICES SUCH AS STARTERS AND DISCONNECTS, AND WHEN INDICATED, FURNISHING ALL SUCH DEVICES.

CODES AND STANDARDS:

IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING CODES, ORDINANCES AND AGENCIES, CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS:

2018 INTERNATIONAL MECHANICAL CODE

2018 INTERNATIONAL BUILDING CODE

2018 UNIFORM PLUMBING CODE

2018 INTERNATIONAL ENERGY CONSERVATION CODE

2018 INTERNATIONAL FUEL AND GAS CODE

ASHRAE 90.1 - 2016

1.02 PRODUCT HANDLING

PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING AND AFTER INSTALLATION.

REPLACEMENTS: IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

1.03 JOB CONDITIONS

EXAMINATION OF SITE: EXAMINE THE SITE AND INCLUDE IN BID PROPOSAL ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED.

1.04 MISCELLANEOUS

PERMIT AND FEES: ARRANGE, APPLY AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS, EXAMINATIONS AND FEES OR CHARGES REQUIRED BY PUBLIC AUTHORITIES HAVING JURISDICTION.

LOCATIONS AND ACCESSIBILITY: CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF WORK UNDER THIS SECTION. VALVES, MOTORS, CONTROLS AND OTHER DEVICES REQUIRING SERVICE MAINTENANCE AND ADJUSTMENT SHALL BE PLACED IN FULLY ACCESSIBLE POSITIONS AND LOCATIONS. PROVIDE ACCESS DOORS WHERE REQUIRED IN DUCTWORK AND/OR CONSTRUCTION WHETHER SPECIALLY DETAILED OR NOT, AND RENDER ALL SUCH DEVICES ACCESSIBLE.

SCAFFOLDING: FURNISH ALL SCAFFOLDING, RIGGING AND HOISTING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK.

DRAWINGS: DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF DUCTWORK, EQUIPMENT, AND OTHER ITEMS, AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. ALL OFFSETS AND INTERFERENCES MAY NOT BE SHOWN BECAUSE OF THE SCALE OF DRAWINGS. ASSUME THE RESPONSIBILITY FOR COORDINATING THE WORK WITH ALL OTHER TRADES. WORK SPECIFIED AND NOT CLEARLY DEFINED BY THE DRAWINGS SHALL BE INSTALLED AND ARRANGED IN A MANNER SATISFACTORY TO THE ENGINEER. IN THE EVENT CHANGES IN INDICATED LOCATION AND ARRANGEMENTS ARE DEEMED NECESSARY BY THE ENGINEER, THEY SHALL BE MADE BY THIS CONTRACTOR WITHOUT ADDITIONAL CHARGES.

ALL HVAC EQUIPMENT SHALL BE LABELED. INFORMATION ON LABELS SHALL INCLUDE: IDENTIFICATION NUMBER AND NAME SAME AS THE DRAWINGS, FLOW AND STATIC PRESSURE AND THE AREA TO WHICH THE UNIT SERVES. LABELS SHALL BE BLACK FACED FORMICA WITH WHILE ENGRAVED LETTERING AT LEAST 3/16 INCH HIGH.

1.05 EQUIPMENT IDENTIFICATION

EXCEPT FOR INDIVIDUAL ROOM HEATING UNITS AND ITEMS FURNISHED UNDER TEMPERATURE CONTROL, ALL ITEMS OF MECHANICAL EQUIPMENT, INCLUDING FANS, PUMPS, BOILERS, AND ELECTRICAL SWITCHES AND STARTERS FOR MECHANICAL EQUIPMENT AND GAUGES SHALL BE LABELED.

INFORMATION ON LABELS SHALL INCLUDE THE FOLLOWING:

IDENTIFICATION NUMBER AND NAME. GENERALLY THIS NUMBER AND NAME SHALL BE THE SAME AS THAT SHOWN ON THE DRAWINGS OR IN THE SPECS.

IF THE ITEM IS A FAN, THE FLOW AND HEAD SHALL BE INDICATED.

THE TYPES OF NAMEPLATES SHALL BE AS FOLLOWS:

VALVE TAGS SHALL BE 1/2" EMBOSSED ALUMINUM TAPES WITH IDENTIFICATION ON ONE SIDE FOR VALVES. TAGS FOR MAGNETIC STARTERS SHALL BE SCREWED TO THE METAL STARTER COVER. TAGS SHALL BE ADDRESSOGRAPH NO. B-3300.

EQUIPMENT NAMEPLATES SHALL BE BLACK FACED FORMICA WITH WHITE ENGRAVED LETTERING AT LEAST 3/16" HIGH.

SCREWS SHALL BE USED FOR EQUIPMENT LABELS. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETE LIST OF ALL VALVES AND EACH ITEM OF EQUIPMENT TO BE IDENTIFIED WITH THE PROPER IDENTIFICATION.

1.06 SUBMITTALS

SHOP DRAWINGS: WITHIN 15 DAYS AFTER AWARD OF CONTRACT, AND BEFORE ANY OF THE MATERIALS OF THIS SECTION ARE FABRICATED AND DELIVERED TO THE JOBSITE, SUBMIT COMPLETE SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR ENGINEER TO REVIEW IN ACCORDANCE WITH THESE SPECIFICATIONS. SHOW ALL DETAILS OF ALL DUCTWORK, AND EQUIPMENT PADS.

PRODUCT DATA:

SUBMIT PDPS OF ALL MANUFACTURER'S PRODUCT DATA SIMULTANEOUSLY WITH ALL SHOP DRAWING SUBMITTALS.

PRODUCT DATA TO INCLUDE ALL AIR CONDITIONING EQUIPMENT, HANGERS, FANS AND OTHER STANDARD ITEMS AS REQUIRED TO COMPLEMENT SHOP DRAWINGS FOR A SUBMITTAL INDICATING PRODUCTS TO BE USED ON THIS WORK.

MANUFACTURERS AND SUPPLIERS OF EQUIPMENT SHALL PROVIDE ALL DATA NECESSARY FOR COMPLIANCE WITH THE STATE OF IDAHO ENERGY CONSERVATION STANDARDS.

RECORD DRAWINGS: MAINTAIN THROUGHOUT THE PROGRESS OF THE WORK PROJECT RECORD DRAWINGS AND SUBMIT TO THE OWNER.

OPERATING MANUALS AND MAINTENANCE MANUALS:

SUBMIT PDF COPY OF ALL OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS.

FULLY INSTRUCT OWNERS OPERATING PERSONNEL AND DEMONSTRATE PERFORMANCE, OPERATION AND MAINTENANCE OF EQUIPMENT. AMOUNT OF TIME ALLOCATED FOR SAID INSTRUCTION AND DEMONSTRATION OF EQUIPMENT AND SYSTEMS SHALL BE PART OF THESE OBLIGATIONS. SUBMIT TO ENGINEER A LETTER SIGNED BY OWNER'S REPRESENTATIVE WHO WILL OPERATE SYSTEM STATING THAT HE HAS BEEN FULLY INSTRUCTED BY CONTRACTOR ABOUT OPERATION AND MAINTENANCE OF EQUIPMENT AND SYSTEM.

SUBMIT ONE (1) ADDITIONAL SET OF APPROVED INSTRUCTIONS AND ONE (1) ADDITIONAL SET OF APPROVED CONTROL DIAGRAMS.

GUARANTEES: IN ADDITION TO EQUIPMENT WARRANTIES, FURNISH A WRITTEN GUARANTEE AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR. GUARANTEE SHALL INCLUDE REPAIR OF DAMAGE TO, OR REPLACEMENT OF, ANY PART OF EQUIPMENT OR PREMISES CAUSED BY LEAKS OR BREAKS IN PIPE OR EQUIPMENT PROVIDED UNDER THIS SECTION.

PART 2 - PRODUCTS

2.01 - DIFFUSERS, REGISTERS AND GRILLES

AIR DISTRIBUTION EQUIPMENT SHALL BE OF SIZES AND CAPACITIES INDICATED.

REGISTERS, GRILLES, AND DIFFUSERS OF THE SIZES SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN SHALL BE FURNISHED AND INSTALLED. ALL GRILLES, DIFFUSERS, AND REGISTERS SHALL BE COMPLETE WITH FRAMES WITH RUBBER GASKETS SUITABLE FOR THE AREA AND WALL CONSTRUCTION WHERE SHOWN ON THE DRAWINGS.

FINISH FOR ALL REGISTERS, DIFFUSERS, GRILLES, ETC. SHALL BE OFF-WHITE UNLESS OTHERWISE SELECTED BY THE OWNER. APPROVED MANUFACTURERS FOR ALL AIR DISTRIBUTION PRODUCTS SHALL BE PRICE INDUSTRIES, MAILOR, METAL AIR, TUTTLE & BAILEY, TITUS, OR HART AND COOLEY.

SUPPLY AIR SHALL BE INTRODUCED INTO CONDITIONED SPACE IN SUCH A MANNER THAT CONDITIONED AIR AND ROOM AIR IS RAPIDLY AND EVENLY MIXED, RESULTING IN EQUALIZATION OF TEMPERATURE AND DRAFTLESS AIR DISTRIBUTION THROUGHOUT ZONES OF OCCUPANCY WITH TEMPERATURE DIFFERENTIALS UP TO 35 DEGREES F FOR BOTH COOLING AND HEATING AIR. QUANTITIES AND THROWS SHALL BE AS INDICATED.

VELOCITY OF MOVING AIR BELOW 5 FOOT LEVEL, DURING COOLING CYCLE, SHALL NOT EXCEED LIMITS OF EITHER 50 FPM AT 1.5 DEGREES F BELOW AVERAGE ROOM TEMPERATURE OR 70 FPM AT 1 DEGREE F BELOW AVERAGE ROOM TEMPERATURE. VELOCITY OF MOVING AIR AT THE 1-FOOT LEVEL, DURING HEATING CYCLE, SHALL NOT BE LESS THAN 10 FPM. TEMPERATURE DIFFERENCE AT OR BELOW THE 5 FOOT LEVEL SHALL NOT EXCEED THE FOLLOWING: 2 DEGREES F BELOW AVERAGE ROOM TEMPERATURE AT 30 FPM, 1.5 DEGREES F BELOW AVERAGE ROOM TEMPERATURE AT 50 FPM, 1.0 DEGREE F BELOW AVERAGE ROOM TEMPERATURE AT 70 FPM. SOUND PRESSURE LEVEL IN ALL OCTAVE BANDS FOR EACH DIFFUSER SHALL NOT EXCEED NC35 NOISE CRITERIA CURVE AT TASK LEVEL WHEN UNITS OPERATE AT DESIGNED CAPACITIES.

CEILING DIFFUSERS, GRILLES AND REGISTERS SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE SO THAT THEY ARE NOT DEPENDING ON THE CEILING FOR SUPPORT.

CEILING DIFFUSERS MAY BE ROUND NECKED OR EQUIVALENT SIZE SQUARE NECK. PROVIDE SQUARE TO ROUND NECK ADAPTER AS NECESSARY. FLEX DUCT SHALL TYPICALLY CONNECT DIRECTLY TO THE DIFFUSER USING A 1-1/2" RADIUS FLEXIBLE DUCT ELBOW. IF SPACE DOES NOT ALLOW FOR A FULL 1-1/2" RADIUS TO BE PROVIDED, THEN A LINED SHEET METAL BOOT SHALL BE PROVIDED. THE FLEXIBLE DUCT SHALL BE CONNECTED TO THE SIDE OF THE SHEET METAL BOOT. THE FLEXIBLE DUCT SHALL NOT BE CONNECT TO THE TOP OF THE SHEET METAL BOOT.

2.02 - DUCTS AND SHEET METAL WORK

PROVIDE DUCTS, PLENUMS, ACCESS DOORS, FRESH AIR INTAKES, AND EXHAUSTS AS INDICATED AND REQUIRED. ALL DUCTWORK SHALL BE CONSTRUCTED, CREATED AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION. PROVIDE PREFABRICATED SPIRAL LOCKSEAM DUCTS AND FITTINGS AND RECTANGULAR DUCTS OF GALVANIZED STEEL, ALUMINUM FLEXIBLE DUCTWORK OR GYPSUM BOARD DUCTWORK IS NOT ACCEPTABLE.

ALL CONNECTIONS TO MAIN DUCTS SHALL BE MADE WITH LOW LOSS FITTINGS.

FLAT DUCT SURFACES SHALL BE CRIMPED DIAGONALLY REGARDLESS OF SIZE. LONGITUDINAL JOINTS IN ALL DUCT SIZES MAY BE FLAT LOCK JOINTS. TRANSVERSE JOINTS AND INTERMEDIATE BRACING SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL OR GALVANIZED STRUCTURAL ANGLES IN ACCORDANCE WITH REQUIREMENTS OF ASHRAE GUIDE AND PUBLIC AUTHORITIES HAVING JURISDICTION.

TRANSVERSE JOINTS ON ALL DUCTS SHALL BE SEALED WITH MASTIC OR TAPE.

LONGITUDINAL JOINTS ON DUCTS WITH INTERNAL STATIC PRESSURES IN EXCESS OF 0.75 INCHES OF WATER PRESSURE SHALL BE SEALED WITH MASTIC OR TAPE.

LOCK JOINTS SHALL BE HAMMERED TO MAKE THEM AIRTIGHT. INSIDE OF DUCT SHALL PRESENT A SMOOTH SURFACE TO FLOW AIR.

CHANGES IN SIZE OF DUCTS SHALL INCREASE GRADUALLY WITH A SLOPE OF NOT MORE THAN 12 INCHES IN 5 FEET WHERE POSSIBLE, BUT NOT MORE THAN 12 INCHES IN 3 FEET IN ANY EVENT.

TURNS SHALL BE MADE WITH A THROAT RADIUS OF NOT LESS THAN THE DUCT WIDTH.

PLENUMS SHALL BE MADE OF 18 GAUGE GALVANIZED SHEET STEEL REINFORCED HORIZONTALLY ON A MAXIMUM OF 48" CENTERS BY 1-1/2" X 1-1/4" X 18" GALVANIZED ANGLES AND REINFORCED VERTICALLY BY 1-1/2" STANDING SEAMS.

2.03 - VOLUME DAMPERS

DAMPERS USED IN LOW VELOCITY BRANCH DUCTS TO CONTROL THE VOLUME OR AIR FLOW SHALL BE YOUNG NO. 817 VOLUME DAMPER OR EQUAL. AN OPERATING HEAD SHALL BE PLACED ON THE SIDE OF THE DUCT AND SHALL BE LOCKED IN POSITION BY A SET KEY WHERE THE DAMPER IS ACCESSIBLE. WHERE THE DAMPER IS NOT ACCESSIBLE, YOUNG NO. 817A OR 817B VOLUME CONTROL DAMPER OR EQUAL, CONSISTING OF AN END BEARING OR MITER GEAR, COUPLING, 38-INCH SQUARE SHAFT, AND REGULATOR FOR OPERATING THE DAMPER FROM THE CEILING SHALL BE PROVIDED.

M2.04 - INSULATION

THERMAL DUCT INSULATION: INSULATE ALL SUPPLY AND RETURN AIR DUCTS, UNLESS OTHERWISE SPECIFIED WITH KNAUF OR EQUAL, MICROGLITE FIBERGLASS DUCT INSULATION, FOIL FACED, 3/4 LB. DENSITY, 1-1/2" THICK INSULATION WRAPPED ENTIRELY AROUND DUCT WITH JOINTS LAPPED AT LEAST 2" AND SECURED WITH 16 GAUGE GALVANIZED WIRE ON 12" CENTERS. INSULATION SHALL COVER ALL SURFACES INCLUDING STANDING SEAMS. THERMAL RESISTIVE VALUE OF DUCT WRAP SHALL BE A MINIMUM OF R-5.

RECTANGULAR SUPPLY DUCTS AND RETURN AIR DUCTS LOCATED IN UNCONDITIONED SPACES SHALL BE LINED WITH KNAUF UNACOUSTIC OR EQUAL, 1 INCH 1-1/2 LB. THERMAL RESISTIVE VALUE OF DUCT LINER SHALL BE A MINIMUM OF R-4.2. RECTANGULAR SUPPLY DUCTS AND RETURN AIR DUCTS LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE LINED WITH KNAUF UNACOUSTIC OR EQUAL, 2 INCH 1-1/2 LB. THERMAL RESISTIVE VALUE OF DUCT LINER SHALL BE A MINIMUM OF R-8. DENSITY COATED FIBERGLASS DUCT LINER COMPLYING WITH FRICTION CORRECTION FACTOR NOT GREATER THAN 1.1 AT A VELOCITY OF 3000 FPM. APPLY INSULATION TO INSIDE OF DUCTS WITH AN APPROVED FIRE RETARDANT ADHESIVE TO PROVIDE 100% COVERAGE AND A SMOOTH SURFACE. IN DUCTS WITH ONE SIDE MORE THAN 12", SECURE INSULATION WITH MECHANICAL FASTENERS IN ADDITION TO ADHESIVE, SPACED AT 14" CENTERS IN BOTH DIRECTIONS. MECHANICAL FASTENERS SHALL BE FLUSH WITH THE LINER SURFACE AND SHALL START WITHIN 2" OF THE LEADING EDGE OF EACH SECTION, AND WITHIN 3" OF THE LEADING EDGE OF ALL CROSS JOINTS OF THE LINER SHALL BE HEAVILY COATED WITH AN APPROVED FIRE RESISTANT ADHESIVE. THE DUCT LINER SHALL BE CUT TO ASSURE SNUG CLOSING CORNER JOINTS, THE BLACK SURFACE OF THE LINER SHALL FACE THE AIR STREAM, TRANSVERSE JOINTS SHALL BE NEATLY BUTTED AND ALL DAMAGED AREAS SHALL BE HEAVILY COATED WITH AN APPROVED ADHESIVE.

ALL DUCT INSULATION SHALL HAVE AN NRC RATING OF NOT LESS THAN 0.60 AND A K FACTOR OF NOT MORE THAN 0.27. DUCT DIMENSIONS SHALL BE INCREASED 2 INCHES ON EACH SIDE FROM THOSE SHOWN ON DRAWINGS TO ACCOMMODATE INSULATION.

2.05 INLINE EXHAUST FAN

INLINE EXHAUST FANS OF THE CAPACITY SHOWN ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED. FANS SHALL BE DIRECT DRIVEN WITH EC MOTOR FANS. FAN SHALL BE PROVIDED WITH THERMOSTAT BY FAN MANUFACTURER. FANS SHALL BE GREENHECK, COOK, OR TWIN CITY.

2.06 BUILDING AUTMOATION SYSTEM

INTERCONNECT NEW INLINE FANS INTO THE EXISING CONTROLS SYSTEM.

BMS SHALL MONITOR FAN ON/OFF STATUS AND ALARMS.

3.01 DISCREPANCIES

IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE OWNER.

DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.

3.02 EQUIPMENT IDENTIFICATION

ALL MAJOR EQUIPMENT SHALL BEAR FIRMLY ATTACHED METAL NAMEPLATES WHICH STATE NAME OF MANUFACTURER, MODEL NUMBER AND ELECTRICAL DATA.

3.03 INITIAL LUBRICATION, ADJUSTING, AND FILLING SYSTEMS

BEFORE OPERATING ANY MECHANICAL SYSTEMS, EQUIPMENT BEARINGS SHALL BE LUBRICATED AND BOLTS, PULLEYS, AND OTHER MOVING PARTS CHECKED FOR ALIGNMENT AND TOLERANCES IN ACCORDANCE WITH MANUFACTURER'S OPERATING INSTRUCTIONS. VIBRATIONS AND NOISE SHALL BE SUPPRESSED.

3.04 CLEANING OF EQUIPMENT, MATERIALS, AND PREMISES

BE PAINTED SMOOTH AND CLEAN, READY FOR PAINTERS. CLEAN ENTIRE PREMISES OF UNUSED MATERIALS, RUBBISH, DEBRIS, GREASE SPOTS AND DIRT LEFT BY SUBCONTRACTOR.

3.05 EQUIPMENT AND MATERIALS

INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

3.06 ACCESSIBILITY

INSTALL WORK READILY ACCESSIBLE FOR NORMAL OPERATION, READING OF INSTRUMENTS, ADJUSTMENT, SERVICE, INSPECTION AND REPAIR, PROVIDE ACCESS PANELS WHERE INDICATED AND REQUIRED. ACCESS PANELS SHALL BE THE RESPONSIBILITY OF RESPECTIVE SUBCONTRACTORS.

3.07 SYSTEM BALANCING

BALANCING WORK INCLUDED:

COMPLETE TESTING AND BALANCING OF THE HVAC SYSTEM AS HEREIN SPECIFIED.

VERIFICATION OF CONDITIONS: PRIOR TO TESTING AND BALANCING, INSPECT EQUIPMENT AND MATERIALS AND ARRANGE WITH CONTRACTOR FOR SATISFACTORY CORRECTION OF ALL DEFECTS IN WORKMANSHIP AND/OR MATERIAL THAT COULD AFFECT THE WORK SPECIFIED HEREIN.

PROTECTION: AS SPECIFIED HEREIN.

SYSTEM OPERATION: CONTRACTOR SHALL PUT ALL PARTS OF SYSTEMS IN FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING.

TEST DATA: SUBMIT COPY OF TEST DATA TO OWNER ON COMPLETION OF WORK UNDER THIS SECTION.

TEST AND BALANCE CONTRACTOR SHALL CERTIFY IN WRITING THAT SYSTEM HAS BEEN ADJUSTED AND BALANCED AND DESIGN CONDITIONS HAVE BEEN ATTAINED IN ALL AREAS OF THE BUILDING.

INSTRUMENTS: INSTRUMENTS USED BY CONTRACTOR SHALL BE ACCURATELY CALIBRATED AND MAINTAINED IN GOOD WORKING ORDER.

AIR DISTRIBUTION TESTING AND BALANCING:

TEST AND RECORD MOTOR FULL LOAD AMPERS AND RPM.

TEST AND RECORD SYSTEM STATIC PRESSURES, SUCTION AND DISCHARGE.

ADJUST ALL SUPPLY AND RETURN AIR DUCTS TO PROPER DESIGN CFM.

IN COOPERATION WITH THE CONTROL MANUFACTURER'S REPRESENTATIVE, THE SETTING ADJUSTMENT OF AUTOMATICALLY OPERATED CONTROLS TO OPERATE AS SPECIFIED, INDICATED AND/OR NOTED.

WITNESS: NOTIFY OWNER IN WRITING TWO WEEKS PRIOR TO TESTING AND BALANCING OF ALL MAJOR EQUIPMENT IN ORDER TO ARRANGE THAT OWNER'S REPRESENTATIVE WILL WITNESS THE TESTS.

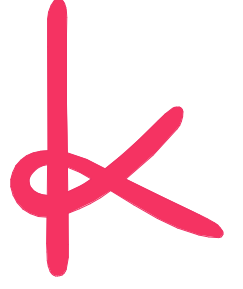
3.08 OPERATION

PLACE SYSTEM IN OPERATION AND REGULATE AND ADJUST TO OWNER'S SATISFACTION. SYSTEMS SHALL OPERATE QUIETLY AND WITHOUT VIBRATION OR NOISE.

3.09 CERTIFICATION

UPON COMPLETION, THE CONTRACTOR SHALL INSPECT WORK OF THIS SECTION AND DELIVER TO OWNER A WRITTEN CERTIFICATION THAT INSTALLED MATERIALS AND WORKMANSHIP CONFORM TO SPECIFICATIONS.

- END -



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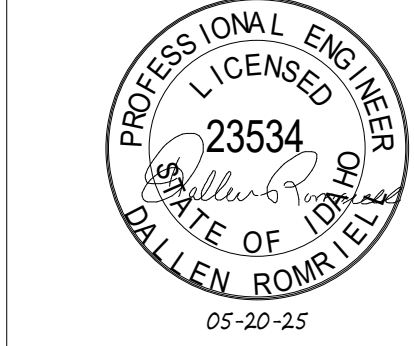


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Project #: 250146

ISSUE DATE: 05.20.2025

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MECHANICAL SPECIFICATIONS

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240128

M0-03

Approved

State of Idaho

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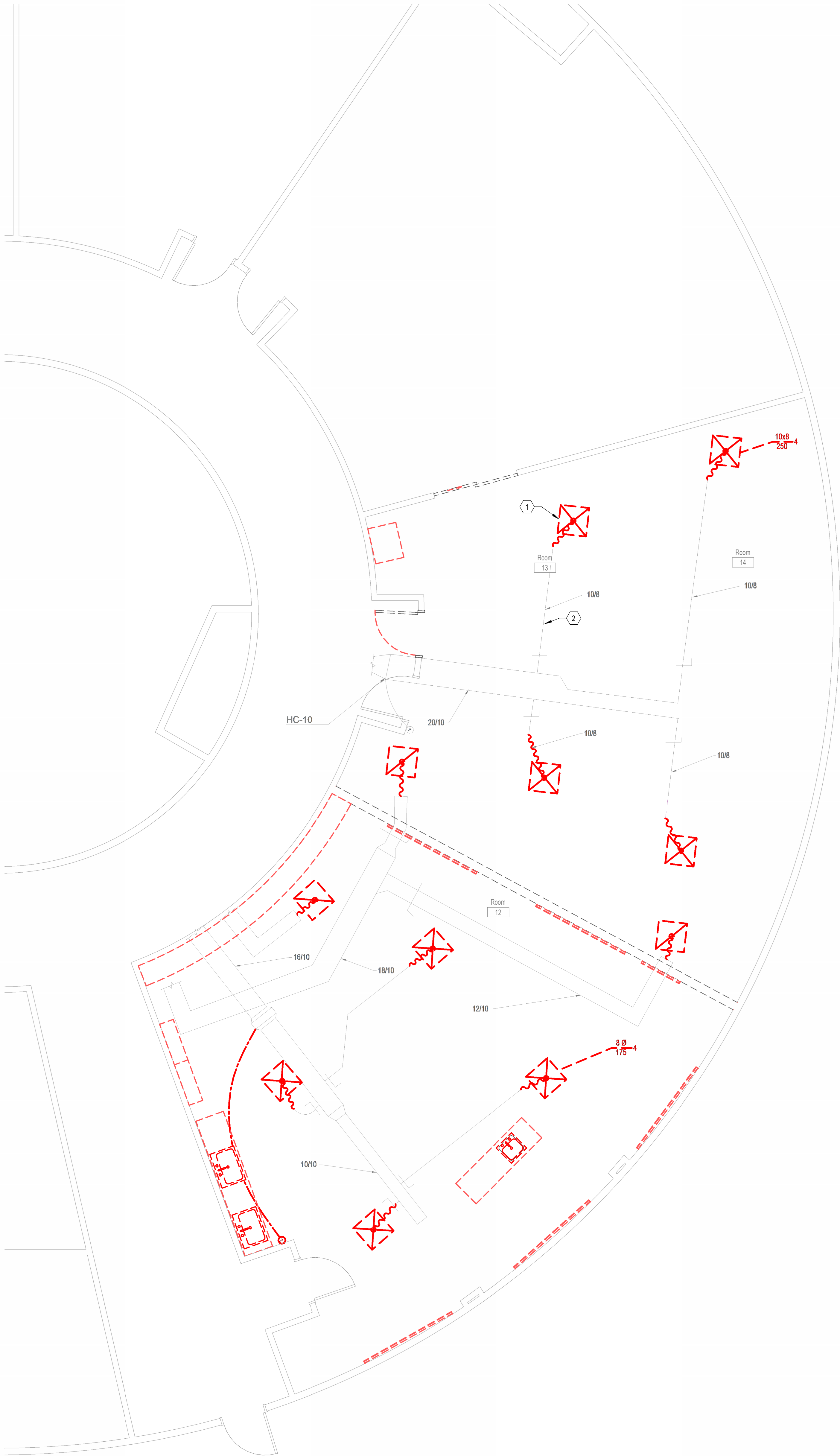
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LEVEL 1 MECHANICAL DEMO PLAN

1/4" = 1'-0"



KEYNOTES	
1	EXISTING ELEMENTS SHOWN DARK AND DASHED TO BE DEMOLISHED. TYPICAL.
2	EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.

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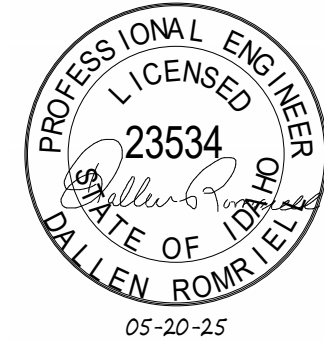
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LEVEL 1 MECHANICAL DEMO PLAN

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

MD1-01

Approved

State of Idaho

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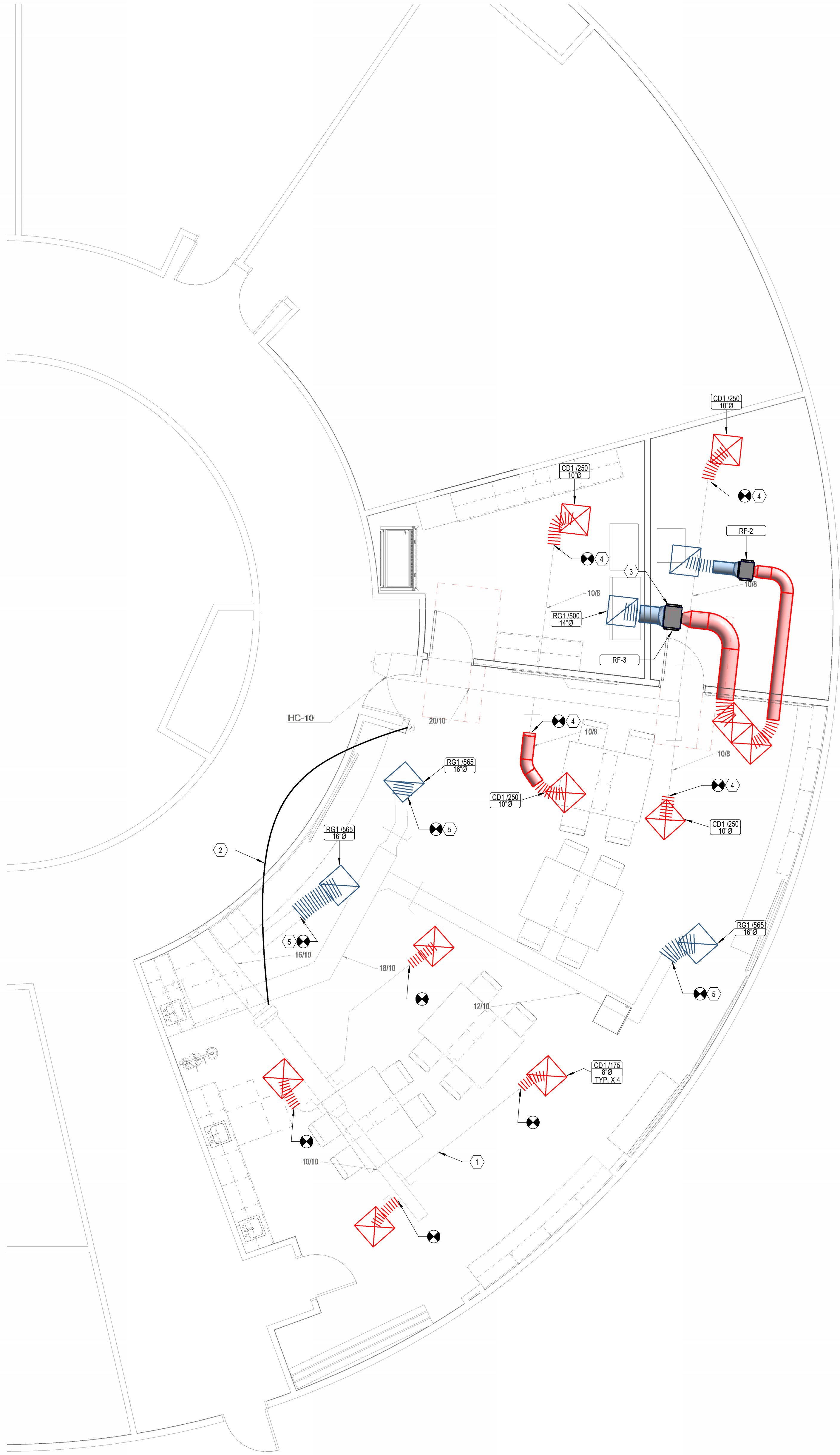
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FAN SCHEDULE													
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR		FAN		FAN WHEEL DIAMETER (IN)	STATIC EFFICIENCY (%)	ELECTRICAL		PHYSICAL	
				MAXIMUM AIRFLOW (CFM)	STATIC PRESSURE (IN. WATER)	OUTLET VELOCITY (FPM)	FAN SPEED (RPM)			MOTOR BHP (WATTS)	VOLTS/PHASE	LENGTH/ WIDTH/ HEIGHT (IN)	INLET SOUND (SONES)
RF-2	GREENECK CSFA380VG	MLT LAB LEVEL 1	INLINE	250	0.3	259	1099	7.75	23	39	115/001	12/14/2011	1.4
RF-3	GREENECK CSFA10VG	MLT LAB LEVEL 1	INLINE	500	0.3	1111	1243	7.5	14	127	115/001	14/18/15	2

1. PROVIDE THERMAL OVERLOAD PROTECTION, DISCONNECT SWITCH, VIBRATION ISOLATION, AND FLEXIBLE CONNECTIONS.
2. PROVIDE FAN WITH A DIRECT DRIVE EC MOTOR. BELT DRIVEN FANS WILL NOT BE ALLOWED.
3. PROVIDE WITH NETWORK CARD AND CONNECT TO BUS.
4. PROVIDE SPEED CONTROLLER MOUNTED DIRECTLY ON FAN.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE			
ID	MANUFACTURER AND MODEL	DESCRIPTION	IMAGE
CD1	TITUS OMNI	STYLE: SQUARE PLAQUE FACE CEILING DIFFUSER CONSTRUCTION: STEEL FINISH: POWDER COAT WITH COLOR SELECTED BY ARCHITECT MOUNTING: SURFACE OR LAY-IN BASED ON CEILING TYPE. PROVIDE FRAME TYPE 1 FOR SURFACE MOUNT AND FRAME TYPE 3 FOR LAY-IN. FACE SIZE: 24"X24", 20"X20", OR 12"X12". VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. CORE: REMOVABLE MAX NC: 25 DAMPER: NONE CONNECTION: ROUND OR RECTANGULAR OF SIZE SHOWN ON DRAWINGS. PROVIDE ADAPTER FITTINGS AS REQUIRED. APPLICATION: VARIABLE AIR VOLUME SUPPLY	
RG1	TITUS PAR	STYLE: SQUARE PERFORATED FACE CEILING GRILLE CONSTRUCTION: STEEL FINISH: SELECTED BY ARCHITECT MOUNTING: SURFACE OR LAY-IN BASED ON CEILING TYPE. PROVIDE FRAME TYPE 1 FOR SURFACE MOUNT AND FRAME TYPE 3 FOR LAY-IN. FACE SIZE: 48"X24", 24"X24", 24"X12", 20"X20", 16"X16", OR 12"X12" AS SHOWN ON PLANS. VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. MAX NC: 25 DAMPER: NONE CONNECTION: ROUND OR RECTANGULAR OF SIZE SHOWN ON DRAWINGS. PROVIDE ADAPTER FITTINGS AS REQUIRED. APPLICATION: RETURN OR TRANSFER MINIMUM FREE AREA: 50%	

- KEYNOTES
1. EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.
2. CONNECT EXISTING VAV BOX TO SINGLE THERMOSTAT. MODIFY CONTROLS AS REQUIRED.
3. COORDINATE ELEVATION WITH EXISTING DUCTWORK.
4. CONNECT TO EXISTING 10X8 DUCT. PROVIDE TRANSITION FROM RECTANGULAR TO ROUND AS REQUIRED.
5. CONNECT TO EXISTING 12X10 DUCT. PROVIDE TRANSITION FROM RECTANGULAR TO ROUND AS REQUIRED.

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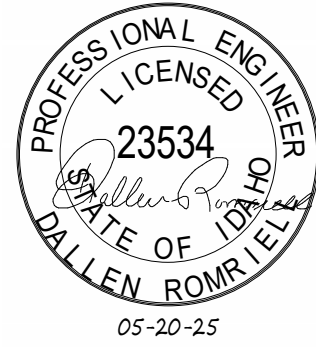
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Project #: 250146

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LEVEL 1 MECHANICAL HVAC PLAN

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

M1-01



LEVEL 1 MECHANICAL HVAC PLAN

1/4" = 1'-0"

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Approved

State of Idaho

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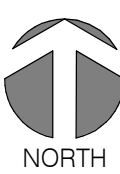
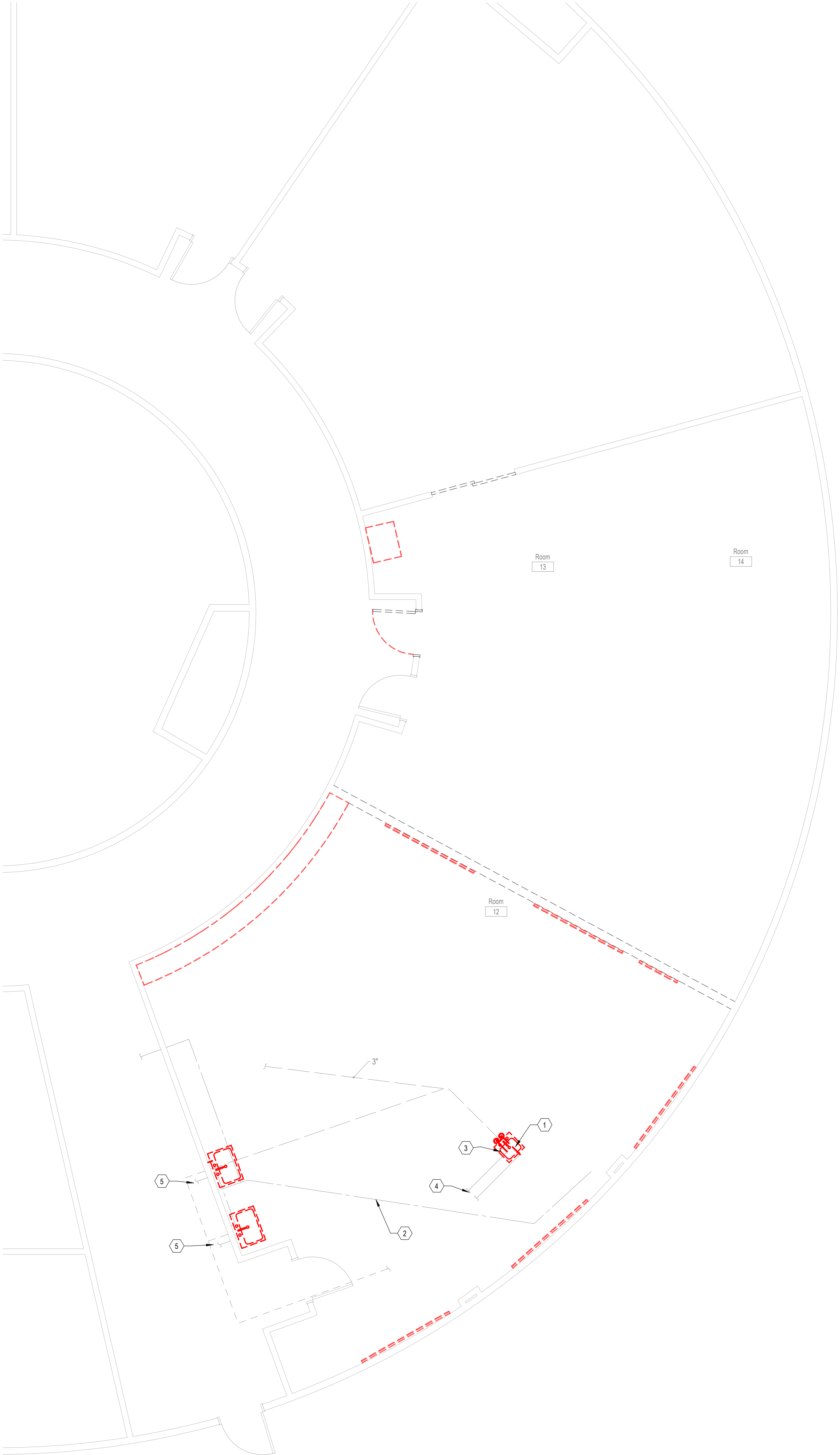
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LEVEL 1 PLUMBING DEMO PLAN

1/4" = 1'-0"

- KEYNOTES
- 1

EXISTING ELEMENTS SHOWN DARK AND DASHED TO BE DEMOLISHED. TYPICAL.
- 2

EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.
- 3

LINES SERVING ISLAND SINK ARE COMING FROM THE FLOOR BELOW. DEMOLISH ALL LINES AT SINK AND CAP BELOW FLOOR.
- 4

DISCONNECT FROM HOT WATER SOURCE AS IT GOES BELOW GRADE, AND ABANDON LINE IN PLACE. CONTRACTOR TO LABEL LINE NOTING THAT LINES ARE ABANDONED.
- 5

HOT WATER LINES SERVED FROM CENTRAL HOT WATER SYSTEM.

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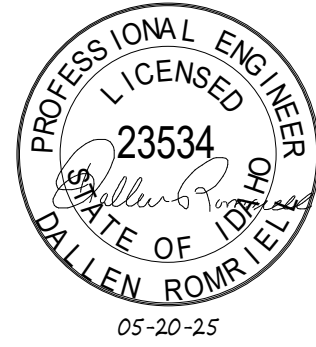
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Project #: 250146

ISSUE DATE: 05.20.2025

REV DATE COMMENT



LEVEL 1 PLUMBING DEMO PLAN

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240128

PD1-01

Approved
State of Idaho
DOPL

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P/A#: 1623597
Date: 6/6/2025

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The stamped documentation has been reviewed for compliance in accordance with the 2017 IRC as adopted by the state of Idaho by a Plumbing Plan Review. This shall not be construed as an approval of any violation of, or variance from Idaho adopted codes, laws, standards, or rules. Final approval will be based upon on-site Plumbing inspections to field verify compliance.

PLUMBING FIXTURE SCHEDULE						SPECIFICATION
ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	
ES-1	EMERGENCY SHOWER	3/4"	3/4"	---	---	EMERGENCY SHOWER: ACORN MODEL S1304HFC FREE STANDING SAFETY STATION WITH SHOWER AND PLASTIC BOWL EYEFACE WASH WITH STAY OPEN BALL VALVES. PROVIDE WITH ACORN ETT1208S-OTG THERMOSTATIC MIXING VALVE AND WATTS LIFT DUAL CHECK VALVES ON HOT AND COLD LINES INSTALLED MOUNTED EXPOSED ON THE WALL WITH THE OUTLET TEMPERATURE SET TO 75-80°F.
S-1	SINK	1/2	1/2	1 1/2	1 1/2	SINK (STAINLESS STEEL, COUNTER MOUNTED, SINGLE COMPARTMENT): ELKAY MODEL PK801723-2 SS, TYPE 304 STAINLESS STEEL 16" x 16" x 17" (3") SINGLE BOWL, DROP-IN SINK, REAR CENTER DRAIN. PROVIDE 2 1/2" x 2 1/2" REGO FAUCET WITH WREST BLADE HANDLES. FAUCET SHALL BE PLAIN END SPOUT WITH 1.5 GPM FLOW CONTROL. PROVIDE PRO-CLO-PH147SS SPRAYER ASSEMBLY, BRASS F-TAP, AND LOOSE KEY ANGLE STOPS. ALTERNATE MANUFACTURERS WILL BE CONSIDERED UPON PRIOR APPROVAL.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

KEYNOTES

1

EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.

2

ROUTE NEW 3/4" HOT AND COLD WATER PIPES TO THERMOSTATIC MIXING VALVE INSTALLED EXPOSED ON WALL NEXT TO SHOWER.

3

EXTEND TO NEAREST HOT WATER LINE.

4

CONNECT NEW 3/4" COW LINE TO EXISTING 3/4" COW LINE.

5

CONNECT TO PLUMBING LINES THAT SERVED EXISTING SINK. PROVIDE WITH ALL NEW PLUMBING COMPONENTS INCLUDING ANGLE STOPS.

6

EXTEND 1/2" DHW AND COW LINE FROM EXISTING SINK LOCATION TO NEW SINK LOCATION.

7

EXTEND NEW VENT AND WASTE LINE TO NEW SINK FROM EXISTING SINK LOCATION. DIRTY LEG WASTE IN WALL TO EXISTING LOCATION.

8

EXTEND TO NEAREST VENT LINE.

9

CONNECT NEW 1/2" COW LINE TO EXISTING 3/4" COW LINE.

10

EXTEND WASTE LINE TO 3" WASTE LINE RUNNING IN THE AREA. SAW CUT AS NEEDED. CONTRACTOR TO SCOPE EXISTING WASTE LINE PRIOR TO DOING ANY DEMOLITION TO DETERMINE ADEQUATE SLOPE.

11

CAP EXISTING PLUMBING LINES BELOW GRADE. REFER TO DEMOLITION NOTES.

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101 W. Cataldo Ave., Suite 205, Spokane, WA 99201
(509) 326-3433 | info@resolutgroup.com
resolutgroup.com

Project #: 250146

ISSUE DATE: 05.20.2025

REV DATE COMMENT

PROFESSIONAL ENGINEER
LICENSED
23534
Dallen Romley
STATE OF IDAHO
05-20-25

LEVEL 1 PLUMBING PLAN

LCSC MLT & PA LAB
Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

P1-01

Approved

State of Idaho

DOPL

PA# 1623597

Date 6/6/2025

These plans are approved for construction on the compliance with the applicable laws and notes applied.

This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted electrical codes, laws or rules applicable to this project.

Division of Occupational & Professional Licenses

DOPL

PLUMBING

MECHANICAL

ELECTRICAL

CONCRETE

PAINTING

WELDING

IRONWORK

ROOFING

GLAZING

LANDSCAPE

MAINTENANCE

DEMOLITION

EXISTING

NEW

REPAIR

REPLACE

REMOVE

ADD

MODIFY

ALTER

CHANGE

UPDATE

REVISION

AMENDMENT

SUPPLEMENT

ADDENDUM

NOTES

DETAILS

SECTION

INDEX

COVER

TITLE

DATE

BY

FOR

PROJECT

SHEET

OF

TOTAL

DATE

BY

FOR

PROJECT

SHEET

OF

TOTAL

FIRE ALARM SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	SMOKE DETECTOR	CEILING	(9) (11)
	SMOKE DETECTOR, SOUNDER BASE	CEILING	(9)
	SMOKE DETECTOR, SOUNDER BASE, WALL	7'-6"	(9) (11)
	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND.	CEILING	(9)
	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND., WALL	7'-6"	(9) (11)
	CARBON MONOXIDE DETECTOR	CEILING	(9) (11)
	DUCT SMOKE DETECTOR	SEE MECH.	(9)
	FIRE/SMOKE DAMPER	SEE MECH.	
	HEAT DETECTOR	CEILING	(9) (11)
	BEAM DETECTOR, RECEIVER		(9)
	BEAM DETECTOR, TRANSMITTER		(9)
	BEAM DETECTOR, RECEIVER/TRANSMITTER		(9)
	BEAM DETECTOR, REFLECTOR		(9)
	FLAME DETECTOR		(9)
	FIRE FIGHTER TELEPHONE OUTLET		(9) (11)
	FIRE ALARM MANUAL PULL STATION	4'-0"	(9) (11)
	FIRE ALARM STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11)
	FIRE ALARM HORN	7'-6"	(9) (11)
	FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11)
	FIRE ALARM SPEAKER	7'-6"	(9) (11)
	FIRE ALARM SPEAKER STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11)
	CEILING MOUNT FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	CEILING	(9) (11)
	CEILING MOUNT FIRE ALARM SPEAKER STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	CEILING	(9) (11)
	CEILING MOUNT FIRE ALARM HORN	CEILING	(9) (11)
	FIRE SPRINKLER FLOW BELL	7'-6" AFF	(9)
	FIRE ALARM CHIME	AS NOTED	(9)
	FIRE ALARM, LOW FREQUENCY, VISUAL	AS NOTED	(9)
	FIRE ALARM, LOW FREQUENCY, NON-VISUAL	AS NOTED	(9)
	ELECTRO MAGNETIC DOOR HOLDER	AS NOTED	
	RELAY MODULE		(9)
	MONITOR MODULE		(9)
	CONTROL MODULE		(9)
	PRESSURE SWITCH		(9)
	TAMPER SWITCH		(9)
	FLOW SWITCH		(9)
	LOOP ISOLATION MODULE		(9)
	FIRE EXTINGUISHER MONITOR		(9)
	FIRE RISER	SEE PLANS	
	ANNUNCIATOR PANEL		(9)
	NOTIFICATION APPLIANCE CONTROL PANEL		(15)
	FIRE ALARM PANEL, SURFACE	AS NOTED	(15)
	FIRE ALARM PANEL, RECESSED	AS NOTED	(15)

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
(S) (D) (Q)	(S) SIMPLEX (D) DUPLEX (Q) QUADPLEX OR DOUBLE DUPLEX		
	STANDARD CONVENIENCE OUTLET	18"	
	CONVENIENCE OUTLET, GFCI	18"	
	STANDARD CONVENIENCE OUTLET, HOSPITAL	18"	
	STANDARD CONVENIENCE OUTLET, SWITCHED	18"	
	STANDARD CONVENIENCE OUTLET, CUSTOM HEIGHT	48"UNLESS NOTED	(6)
	CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT	48"UNLESS NOTED	(6)
	CONVENIENCE OUTLET, ISOLATED GROUND	18"	
	CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT, HOSPITAL	48"UNLESS NOTED	(6)
	CONVENIENCE OUTLET, FLOOR	FLOOR	
	CONVENIENCE OUTLET, CEILING	CEILING	
	2 CIRCUITS TO EACH DEVICE	18"	
	COMBINATION POWER AND COMMUNICATION FLOOR BOX	FLOOR	
	DUPLEX OUTLET, POP-UP	COUNTERTOP	
	SPECIAL PURPOSE OUTLET		
	DIRECT CONNECTION TO EQUIPMENT		
	CORD DROP OUTLET	SUSPENDED	
	CORD REEL OUTLET	SUSPENDED	
	POKE THRU, POWER	FLOOR	
	POKE THRU, POWER AND DATA	FLOOR	
	POKE THRU, POWER AND DATA W/AV	FLOOR	
	POWER/VOICE-DATA SERVICE POLE	AS NOTED	
	DISTRIBUTION JUNCTION UNIT		
	VARIABLE FREQUENCY DRIVE		
	SURGE PROTECTION DEVICE		
	JUNCTION BOX	AS NOTED	(12)
	JUNCTION BOX, WALL	AS NOTED	(12)
	JUNCTION BOX, FLOOR	FLOOR	(12)
	CLOCK OUTLET		(*)
	MANUAL MOTOR CONTROLLER SWITCH WITHOUT TERMINAL OVERLOAD PROTECTION		
	SWITCH WITH PILOT LIGHT		
	MANUAL SWITCH WITH THERMAL OVERLOAD		
	SINGLE POLE DOOR SWITCH		
	PUSH BUTTON SWITCH, SINGLE	AS NOTED	
	PUSH BUTTON SWITCH, DOUBLE	AS NOTED	
	PUSH BUTTON SWITCH, TRIPLE	AS NOTED	
	EMERGENCY POWER OFF (EPO) SWITCH		
	NON-FUSED DISCONNECT SWITCH		(13) (14)
	FUSED DISCONNECT SWITCH		(13) (14)
	MAGNETIC STARTER		(13) (14)
	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)
	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
	POWER RELAY		(13) (14)
	MOTOR OUTLET		
	MOTOR OUTLET, ROOF MOUNTED	ROOF	
	LIGHTNING PROTECTION AIR TERMINAL	ROOF	
	LIGHTNING PROTECTION BOND PLATE		
	LIGHTNING PROTECTION GROUND ROD	GROUND	
	POKE THRU		
	UTILITY POWER POLE	SEE PLANS	
	TRANSFORMER	SEE PLANS	
	TRANSFORMER	SEE PLANS	
	EMERGENCY GENERATOR	SEE PLANS	
	GENERATOR ANNUNCIATOR PANEL	SEE PLANS	
	AUTOMATIC TRANSFER SWITCH	SEE PLANS	
	CABLE TRAY		
	MAIN DISTRIBUTION POWER PANEL		
	PANEL BOARD, SURFACE	6'-6" TO TOP	
	PANEL BOARD, RECESSED	6'-6" TO TOP	

LIGHTING SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	24 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	24 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	24 LINEAR CRITICAL LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	24 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	24 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	24 LINEAR CRITICAL LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	RECESSED LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED EMERGENCY LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED WALL WASH LIGHT FIXTURE	CEILING	(1) (3)
	CEILING LIGHT FIXTURE	CEILING	(1) (2)
	PENDANT/CHANDELIER LIGHT FIXTURE	SUSPENDED	(1) (2) (3)
	WALL LIGHT FIXTURE, SURFACE	AS NOTED	(1) (2)
	WALL LIGHT FIXTURE, RECESSED	AS NOTED	(1) (2)
	TRACK LIGHT FIXTURE WITH TRACK	CEILING	(1) (2) (3)
	CEILING FAN	SUSPENDED	
	FLOOD/LANDSCAPE/MONUMENT LIGHT FIXTURE	GROUND	(1) (2) (3)
	AREA LIGHT FIXTURE	POLE	(1) (2)
	BOLLARD LIGHT	GROUND	
	BOLLARD LIGHT, POLE TOP AREA LIGHT	POLE	(1) (2)
	EXIT SIGN, WALL, ARROW INDICATES DIRECTION	7'-6"	(1) (2) (4) (5)
	EXIT SIGN, ARROW INDICATES DIRECTION	CEILING	(1) (4) (5)
	EMERGENCY LIGHT FIXTURE, WALL	7'-6"	(1) (2)
	PHOTO-ELECTRIC CELL	AS NOTED	
	POWER PACK	CEILING	
	SLAVE PACK	CEILING	
	MINI POWER PACK	CEILING	
	ROOM CONTROLLER	CEILING	
	EMERGENCY CONTROL UNIT	CEILING	
	DUAL TECHNOLOGY VACANCY SENSOR	CEILING	(7)
	DUAL TECHNOLOGY VAC. SENSOR, WALL	AS NOTED	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 1-BUTTON	4'-0"	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH WITH DIMMER, 1-BUTTON	4'-0"	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 2-BUTTON	4'-0"	(7)
	DAYLIGHT SENSOR	CEILING	
	PASSIVE INFRARED SENSOR	CEILING	
	SINGLE POLE SWITCH	4'-0"	
	DOUBLE POLE, SINGLE THROW SWITCH	4'-0"	
	THREE WAY SWITCH	4'-0"	
	THREE WAY SWITCH ATTRIBUTE SIGNIFIES FIXTURE SWITCHING	4'-0"	
	FOUR WAY SWITCH	4'-0"	
	DUAL LEVEL SWITCH BANK	4'-0"	
	DIMMER SWITCH	4'-0"	
	LOW VOLTAGE SWITCH	4'-0"	
	KEYED SWITCH, SINGLE POLE	4'-0"	(15)
	7-DAY TIMER SWITCH, SINGLE POLE	4'-0"	(15)
	TOUCH PANEL	4'-0"	
	TIME CLOCK	AS NOTED	
	LIGHTING CONTROL PANEL, SURFACE	6'-6" TO TOP	
	LIGHTING CONTROL PANEL, RECESSED	6'-6" TO TOP	

TELECOMMUNICATION SYMBOL SCHEDULE			
	TELEPHONE OUTLET, SINGLE PORT	18"	
	TELEPHONE OUTLET, CUSTOM HEIGHT		(6)
	DATA OUTLET, DUAL PORT	18"	
	DATA OUTLET, CUSTOM HEIGHT		(6)
	DUAL DATA AND SINGLE TELEPHONE PORT	18"	
	DUAL DATA AND SINGLE TELEPHONE PORT, CUSTOM HEIGHT		(6)
	DATA OUTLET, ATTRIBUTE SIGNIFIES PORT QUANTITY	18"	
	TELEPHONE OUTLET, SINGLE PORT, FLOOR MOUNTED	FLOOR	
	DATA OUTLET, DUAL PORT, FLOOR MOUNTED	FLOOR	
	TELEVISION OUTLET	AS NOTED	(6) (11)
	CEILING WI-FI ACCESS POINT	CEILING	
	MAIN TELEPHONE BOARD	6'-6" TO TOP	
	MAIN DISTRIBUTION FRAME	6'-6" TO TOP	
	INTERMEDIATE DISTRIBUTION FRAME	6'-6" TO TOP	

GENERAL NOTES			
1.	THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE. SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE ORDER BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.		
2.	THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.		
3.	NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.		
4.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.		
5.	THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.		
6.	ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.		
7.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.		
8.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELEDATA ROOM FROM WHICH NEW TELEDATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELEDATA CABLING.		
9.	THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.		
10.	THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE. IF REJECTED BY AN INSPECTOR, IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.		
11.	CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.		
12.	THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.		
13.	THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.		
14.	MINIMUM SIZE CONDUIT SHALL BE 3/4" ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.		
15.	FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT BE GREATER THAN 72" INCHES.		
16.	WIRING DEVICES SHALL MATCH EXISTING COLOR AND FINISH TYPE.		
17.	TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.		
18.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.		
19.	BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.		
20.	ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.		
21.	LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.		
22.	ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT SOLELY FROM THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBER.		
23.	TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURE, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT AND STARTING CHARACTERISTICS FOR ALL INSTALLED.		
24.	WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120/277VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF #12(CU, THHN) FOR 120VAC EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU, THHN) FOR 120VAC BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.		
25.	CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED. CONDUCTORS SIZES UP TO #10AWG SHALL BE SOLID AND #8AWG AND LARGER SHALL BE STRANDED.		
26.	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATION OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS, WIRES, AND OVERCURRENT PROTECTION PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.		
27.	THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, UNNEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.		
28.	OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.		
29.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.		
30.	IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.		
31.	PROVIDE AN UPDATED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT/DEVICE IT IS FEEDING. DATE DIRECTORY WITH PROJECT COMPLETION DATE. MODIFIED CIRCUITS TO BE IN BOLD.		
32.	SUBMIT A SCALED LAYOUT (1/4" = 1') OF ALL ELECTRICAL ROOMS BASED ON THE ELECTRICAL GEAR AND EQUIPMENT SUBMITTALS.		
33.	PROVIDE A CLEAR, TYPED LABEL ON THE FACEPLATE OF ALL RECEPTACLES AND LIGHT SWITCHES INDICATING THE CIRCUIT IT IS TIED TO. USE LABELING CONVENTION xx-xx, WHERE "xx" IS THE NAME OF THE PANEL AND "xx" IS THE BRANCH CIRCUIT NUMBER. LABEL LENGTH SHALL NOT EXCEED 1/4" ON EITHER SIDE OF TEXT.		
34.	FUSED DISCONNECTS TO BE HEAVY DUTY.		
35.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE STRUCTURED CABLING FROM EACH TELEDATA/CATV OUTLET TO THE TELEPHONE/DATA BOARD/RACK. THE CABLE SHALL BE LABELED ON EACH END FOR PROPER IDENTIFICATION BEFORE THE CABLE ENDS ARE TERMINATED. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE CABLES IN THE OUTLET AND IN THE PATCH PANEL OR BLOCK ON THE TELEPHONE TERMINAL BOARD AND/OR RACK. IN AREAS WHERE EXPOSED WIRING ABOVE CEILINGS IS INSTALLED WITHIN PLENUM SPACES, THE TELECOMMUNICATIONS WIRING SHALL BE PLENUM RATED. ALL TELE/DATA CABLING SHALL BE CATEGORY 6 RATED. ROUTE ALL CABLING FROM THE OUTLET TO THE TERMINAL BOARD/WALL MOUNTED RACK AND TERMINATE. ALL ACTIVE EQUIPMENT (I.E. ROUTERS, SWITCHES, SERVERS, ETC.) SHALL BE PROVIDED AND INSTALLED BY THE OWNER.		
36.	ALL TELECOMMUNICATIONS WIRING SHALL BE INSTALLED WITHIN CONDUIT UNLESS INSTALLED ABOVE ACCESSIBLE CEILINGS. MINIMUM CONDUIT SIZE FOR TELECOMMUNICATIONS CABLING SHALL BE 1-1/4" EMT, UNLESS OTHERWISE NOTED.		
37.	PROVIDE A DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT. SHARED NEUTRALS ARE NOT ALLOWED UNLESS NOTED OTHERWISE.		

ABBREVIATIONS		
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Approved

State of Idaho

DOPL

PA#:

1623597

Date:

6/6/2025

These plans are approved contingent on the compliance with the mark-ups and notes applied.

This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.

DIVISION OF OCCUPATIONAL & PROFESSIONAL LICENSES

DOPL

Autodesk Docs /240218 - LCSC Med Lab

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ELECTRICAL SPECIFICATIONS	
FIRE ALARM	
3.1 EXAMINATION	
A. EXAMINE AREAS AND CONDITIONS FOR COMPLIANCE WITH REQUIREMENTS FOR VENTILATION, PERFORMANCE, HUMIDITY, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.	
1. VERIFY THAT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR ENVIRONMENTAL CONDITIONS HAVE BEEN PERMANENTLY ESTABLISHED IN SPACES WHERE EQUIPMENT AND WIRING ARE INSTALLED, BEFORE INSTALLATION BEGINS.	
B. EXAMINE ROUGHING-IN FOR ELECTRICAL CONNECTIONS TO VERIFY ACTUAL LOCATIONS OF CONNECTIONS BEFORE INSTALLATION.	
C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.	
3.2 EQUIPMENT INSTALLATION	
A. COMPLY WITH NFPA 72, NFPA 101, AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR INSTALLATION AND TESTING OF FIRE-ALARM SYSTEM. INSTALL ALL ELECTRICAL WIRING TO COMPLY WITH REQUIREMENTS IN NFPA 70 INCLUDING, BUT NOT LIMITED TO, ARTICLE 760, "FIRE ALARM SYSTEMS."	
1. DEVICES PLACED IN SERVICE BEFORE ALL OTHER TRADES HAVE COMPLETED CLEANUP SHALL BE REPLACED.	
2. DEVICES INSTALLED BUT NOT YET PLACED IN SERVICE SHALL BE PROTECTED FROM CONSTRUCTION DUST, DEBRIS, DIRT, MOISTURE, AND DAMAGE ACCORDING TO MANUFACTURER'S WRITTEN STORAGE INSTRUCTIONS.	
B. CONNECTING TO EXISTING EQUIPMENT: VERIFY THAT EXISTING FIRE-ALARM SYSTEM IS OPERATIONAL BEFORE MAKING CHANGES OR CONNECTIONS.	
1. CONNECT NEW EQUIPMENT TO EXISTING CONTROL PANEL IN EXISTING PART OF THE BUILDING.	
2. CONNECT NEW EQUIPMENT TO EXISTING MONITORING EQUIPMENT AT THE SUPERVISING STATION.	
3. EXPAND, MODIFY, AND SUPPLEMENT EXISTING [CONTROL] [MONITORING] EQUIPMENT AS NECESSARY TO EXTEND EXISTING [CONTROL] [MONITORING] FUNCTIONS TO THE NEW POINTS. NEW COMPONENTS SHALL BE CAPABLE OF MERGING WITH EXISTING CONFIGURATION WITHOUT DEGRADING THE PERFORMANCE OF EITHER SYSTEM.	
C. INSTALL WALL-MOUNTED EQUIPMENT, WITH TOPS OF CABINETS NOT MORE THAN 78 INCHES ABOVE THE FINISHED FLOOR.	
1. COMPLY WITH REQUIREMENTS FOR SEISMIC-RESTRAINT DEVICES SPECIFIED IN SECTION 280548.16 "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS."	
D. MANUAL FIRE-ALARM BOXES:	
1. INSTALL MANUAL FIRE-ALARM BOX IN THE NORMAL PATH OF EGRESS WITHIN 60 INCHES OF THE EXIT DOORWAY.	
2. MOUNT MANUAL FIRE-ALARM BOX ON A BACKGROUND OF A CONTRASTING COLOR.	
3. THE OPERABLE PART OF MANUAL FIRE-ALARM BOX SHALL BE BETWEEN 42 INCHES AND 48 INCHES ABOVE FLOOR LEVEL. ALL DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.	
E. SMOKE-OR HEAT-DETECTOR SPACING:	
1. COMPLY WITH THE "SMOKE-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING DEVICES" CHAPTER IN NFPA 72, FOR SMOKE-DETECTOR SPACING.	
2. COMPLY WITH THE "HEAT-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING DEVICES" CHAPTER IN NFPA 72, FOR HEAT-DETECTOR SPACING.	
3. SMOOTH CEILING SPACING SHALL NOT EXCEED 30 FEET.	
4. SPACING OF DETECTORS FOR IRREGULAR AREAS, FOR IRREGULAR CEILING CONSTRUCTION, AND FOR HIGH CEILING AREAS SHALL BE DETERMINED ACCORDING TO ANNEX A IN NFPA 72.	
5. HVAC LOCATE DETECTORS NOT CLOSER THAN 36 INCHES FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENING.	
6. LIGHTING FIXTURES: LOCATE DETECTORS NOT CLOSER THAN 12 INCHES FROM ANY PART OF A LIGHTING FIXTURE AND NOT DIRECTLY ABOVE PENDANT MOUNTED OR INDIRECT LIGHTING.	
F. INSTALL A COVER ON EACH SMOKE DETECTOR THAT IS NOT PLACED IN SERVICE DURING CONSTRUCTION. COVER SHALL REMAIN IN PLACE EXCEPT DURING SYSTEM TESTING. REMOVE COVER PRIOR TO SYSTEM TURNOVER.	
G. DUCT SMOKE DETECTORS: COMPLY WITH NFPA 72 AND NFPA 90A. INSTALL SAMPLING TUBES SO THEY EXTEND THE FULL WIDTH OF DUCT. TUBES MORE THAN 36 INCHES LONG SHALL BE SUPPORTED AT BOTH ENDS.	
1. DO NOT INSTALL SMOKE DETECTOR IN DUCT SMOKE-DETECTOR HOUSING DURING CONSTRUCTION.	
2. INSTALL DETECTOR ONLY DURING SYSTEM TESTING AND PRIOR TO SYSTEM TURNOVER.	
H. AIR-SAMPLING SMOKE DETECTORS: IF USING MULTIPLE PIPE RUNS, THE RUNS SHALL BE PNEUMATICALLY BALANCED.	
I. ELEVATOR SHAFTS: COORDINATE TEMPERATURE RATING AND LOCATION WITH SPRINKLER RATING AND LOCATION.	
J. SINGLE-STATION SMOKE DETECTORS: WHERE MORE THAN ONE SMOKE ALARM IS INSTALLED WITHIN A DWELLING OR SUITE, THEY SHALL BE CONNECTED SO THAT THE OPERATION OF ANY SMOKE ALARM CAUSES THE ALARM IN ALL SMOKE ALARMS TO SOUND.	
K. REMOTE STATUS AND ALARM INDICATORS: INSTALL IN A VISIBLE LOCATION NEAR EACH SMOKE DETECTOR, SPRINKLER WATER-FLOW SWITCH, AND VALVE-TAMPER SWITCH THAT IS NOT READILY VISIBLE FROM NORMAL VIEWING POSITION.	
L. AUDIBLE ALARM-INDICATING DEVICES: INSTALL NOT LESS THAN 6 INCHES BELOW THE CEILING. INSTALL BELLS AND HORNS ON FLUSH-MOUNTED BACK BOXES WITH THE DEVICE-OPERATING MECHANISM CONCEALED BEHIND A GRILLE. INSTALL ALL DEVICES AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.	
M. VISIBLE ALARM-INDICATING DEVICES: INSTALL ADJACENT TO EACH ALARM BELL OR ALARM HORN AND AT LEAST 8 INCHES BELOW THE CEILING. INSTALL ALL DEVICES AT THE SAME HEIGHT UNLESS OTHERWISE INDICATED.	
N. DEVICE LOCATION-INDICATING LIGHTS: LOCATE IN PUBLIC SPACE NEAR THE DEVICE THEY MONITOR.	
O. ANTENNA FOR RADIO ALARM TRANSMITTER: MOUNT TO BUILDING STRUCTURE WHERE INDICATED. USE MOUNTING ARRANGEMENT AND SUBSTRATE CONNECTION THAT RESISTS 100-MPH (160-KMH) "INSERT VALUE" WIND LOAD WITH A GUST FACTOR OF 1.3 WITHOUT DAMAGE.	
P. CONDUCTORS: PROVIDE MINIMUM #14 AWG COPPER CONDUCTORS, SHIELDED AND/OR STRANDED CONDUCTORS SHALL BE PROVIDED PER THE MANUFACTURER'S INSTRUCTIONS.	
Q. OVERCURRENT PROTECTION DEVICE, CIRCUIT BREAKERS FEEDING THE FIRE-ALARM CONTROL PANEL OR OTHER FIRE-ALARM SYSTEM DEVICES SHALL BE PAINTED RED AND SHALL BE LABELED "FIRE ALARM SYSTEM - DO NOT TURN OFF."	
3.3 PATHWAYS	
A. PATHWAYS SHALL BE INSTALLED IN EMT. MINIMUM SIZE SHALL BE ½".	
B. EXPOSED EMT AND JUNCTION BOXES SHALL BE PAINTED RED ENAMEL.	
3.4 CONNECTIONS	
A. FOR FIRE-PROTECTION SYSTEMS RELATED TO DOORS IN FIRE-RATED WALLS AND PARTITIONS AND TO DOORS IN SMOKE PARTITIONS, COMPLY WITH REQUIREMENTS IN SECTION 087100 "DOOR HARDWARE." CONNECT HARDWARE AND DEVICES TO FIRE-ALARM SYSTEM.	
1. VERIFY THAT HARDWARE AND DEVICES ARE LISTED FOR USE WITH INSTALLED FIRE-ALARM SYSTEM BEFORE MAKING CONNECTIONS.	
B. MAKE ADDRESSABLE CONNECTIONS WITH A SUPERVISED INTERFACE DEVICE TO THE FOLLOWING DEVICES AND SYSTEMS. INSTALL THE INTERFACE DEVICE LESS THAN 36 INCHES FROM THE DEVICE CONTROLLED. MAKE AN ADDRESSABLE CONFIRMATION CONNECTION WHEN SUCH FEEDBACK IS AVAILABLE AT THE DEVICE OR SYSTEM BEING CONTROLLED.	
1. ALARM-INITIATING CONNECTION TO SMOKE-CONTROL SYSTEM (SMOKE MANAGEMENT) AT FIRE-FIGHTERS' SMOKE-CONTROL SYSTEM PANEL.	
2. ALARM-INITIATING CONNECTION TO STAIRWELL AND ELEVATOR-SHAFT PRESSURIZATION SYSTEMS.	
3. SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED HVAC DUCT SYSTEMS.	
4. MAGNETICALLY HELD-OPEN DOORS.	
5. ELECTRONICALLY LOCKED DOORS AND ACCESS GATES.	
6. ALARM-INITIATING CONNECTION TO ELEVATOR RECALL SYSTEM AND COMPONENTS.	
7. ALARM-INITIATING CONNECTION TO ACTIVATE EMERGENCY SHUTOFFS FOR GAS AND FUEL SUPPLIES.	
8. SUPERVISORY CONNECTIONS AT VALVE SUPERVISORY SWITCHES.	
9. SUPERVISORY CONNECTIONS AT LOW-AIR-PRESSURE SWITCH OF EACH DRY-PIPE SPRINKLER SYSTEM.	
10. SUPERVISORY CONNECTIONS AT ELEVATOR SHUNT-TRIP BREAKER.	
11. DATA COMMUNICATION CIRCUITS FOR CONNECTION TO MASS NOTIFICATION SYSTEM.	
12. SUPERVISORY CONNECTIONS AT FIRE-EXTINGUISHER LOCATIONS.	
13. SUPERVISORY CONNECTIONS AT FIRE-PUMP POWER FAILURE INCLUDING A DEAD-PHASE OR PHASE-REVERSAL CONDITION.	
14. SUPERVISORY CONNECTIONS AT FIRE-PUMP ENGINE CONTROL PANEL.	
3.5 IDENTIFICATION	
A. IDENTIFY SYSTEM COMPONENTS, WIRING, CABLEING, AND TERMINALS. COMPLY WITH REQUIREMENTS FOR IDENTIFICATION SPECIFIED IN SECTION 28 0553 "IDENTIFICATION FOR ELECTRICAL SYSTEMS."	
B. INSTALL FRAMED INSTRUCTIONS IN A LOCATION VISIBLE FROM FIRE-ALARM CONTROL UNIT.	
3.6 GROUNDING	
A. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT.	
B. GROUND SHIELDED CABLES AT THE CONTROL PANEL LOCATION ONLY. INSULATE SHIELD AT DEVICE LOCATION.	

3.7 FIELD QUALITY CONTROL	
A. FIELD TESTS SHALL BE WITNESSED BY AUTHORITIES HAVING JURISDICTION.	
B. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TEST AND INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS.	
C. PERFORM TESTS AND INSPECTIONS.	
D. PERFORM THE FOLLOWING TESTS AND INSPECTIONS:	
1. VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING.	
a. INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY THE "COMPLETION DOCUMENTS, PREPARATION" TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72.	
b. COMPLY WITH THE "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72. RETAIN THE "INITIAL/REACCEPTANCE" COLUMN AND LIST ONLY THE INSTALLED COMPONENTS.	
2. SYSTEM TESTING: COMPLY WITH THE "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.	
3. TEST AUDIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. REFORM THE TEST USING A PORTABLE SOUND-LEVEL METER COMPLYING WITH TYPE 2 REQUIREMENTS IN ANSI S1.4.	
4. TEST AUDIBLE APPLIANCES FOR THE PRIVATE OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.	
5. TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.	
6. FACTORY-AUTHORIZED SERVICE REPRESENTATIVE SHALL PREPARE THE "FIRE ALARM SYSTEM RECORD OF COMPLETION" IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72 AND THE "INSPECTION AND TESTING FORM" IN THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.	
E. REACCEPTANCE TESTING: PERFORM REACCEPTANCE TESTING TO VERIFY THE PROPER OPERATION OF ADDED OR REPLACED DEVICES AND APPLIANCES.	
F. FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.	
G. PREPARE TEST AND INSPECTION REPORTS.	
H. MAINTENANCE TEST AND INSPECTION: PERFORM TESTS AND INSPECTIONS LISTED FOR WEEKLY, MONTHLY, QUARTERLY, AND SEMIANNUAL PERIODS. USE FORMS DEVELOPED FOR INITIAL TESTS AND INSPECTIONS.	
I. ANNUAL TEST AND INSPECTION: ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION, TEST FIRE-ALARM SYSTEM COMPLYING WITH VISUAL AND TESTING INSPECTION REQUIREMENTS IN NFPA 72. USE FORMS DEVELOPED FOR INITIAL TESTS AND INSPECTIONS.	
3.8 MAINTENANCE SERVICE	
A. INITIAL MAINTENANCE SERVICE: BEGINNING AT SUBSTANTIAL COMPLETION, MAINTENANCE SERVICE SHALL INCLUDE [12] "INSERT NUMBERS" MONTHS' FULL MAINTENANCE BY SKILLED EMPLOYEES OF MANUFACTURER'S DESIGNATED SERVICE ORGANIZATION. INCLUDE PREVENTIVE MAINTENANCE, REPAIR OR REPLACEMENT OF WORN OR DEFECTIVE COMPONENTS, LUBRICATION, CLEANING, AND ADJUSTING AS REQUIRED FOR PROPER OPERATION. PARTS AND SUPPLIES SHALL BE MANUFACTURER'S AUTHORIZED REPLACEMENT PARTS AND SUPPLIES.	
1. INCLUDE VISUAL INSPECTIONS ACCORDING TO THE "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.	
2. PERFORM TESTS IN THE "TEST METHODS" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.	
3. PERFORM TESTS PER THE "TESTING FREQUENCIES" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.	
3.9 SOFTWARE SERVICE AGREEMENT	
A. COMPLY WITH ALL.	
B. TECHNICAL SUPPORT: BEGINNING AT SUBSTANTIAL COMPLETION, SERVICE AGREEMENT SHALL INCLUDE SOFTWARE SUPPORT FOR TWO YEARS.	
C. UPGRADE SERVICE: AT SUBSTANTIAL COMPLETION, UPDATE SOFTWARE TO LATEST VERSION. INSTALL AND PROGRAM SOFTWARE UPGRADES THAT BECOME AVAILABLE WITHIN TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION. UPGRADES SHALL INCLUDE OPERATING SYSTEM AND NEW OR REVISED LICENSES FOR USING SOFTWARE.	
1. UPGRADE NOTICE: AT LEAST 30 DAYS TO ALLOW OWNER TO SCHEDULE ACCESS TO SYSTEM AND TO UPGRADE COMPUTER EQUIPMENT IF NECESSARY.	
3.10 DEMONSTRATION	
A. TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN FIRE-ALARM SYSTEM.	

ELECTRICAL SPECIFICATIONS

MATERIALS

A. GENERAL	
1. MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT.	
B. RACEWAY	
1. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.	
2. GALVANIZED FLEXIBLE STEEL (FMC) OR LIQUID TIGHT STEEL (LFMC) CONDUIT SHALL BE USED FOR CONNECTIONS TO MECHANICAL EQUIPMENT, TRANSFORMERS AND AS INDICATED.	
3. SCHEDULE 40 PVC (WITH PVC COATED OR VINYL TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH.	
4. 3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT.	
5. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE RIGID STEEL CONDUIT.	
C. FITTINGS	
1. ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS.	
D. OUTLET AND JUNCTION BOXES	
1. BOXES IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LESS THAN 4 INCHES SQUARE AND 1/8" DEEP. APPLETON, RACO, OR EQUAL.	
2. BOXES SHALL BE EQUIPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FIXTURE STUDS AS REQUIRED.	
3. BOXES FOR FLOOR OUTLETS SHALL BE UL LISTED FOR USE IN APPLICATION:	
a. POURED IN PLACE IN CONCRETE BOXES SHALL BE LEGRAND RFP TYPE OR APPROVED EQUAL. BOXES SHALL CONTAIN POWER, DATA OR BOTH AS CALLED FOR ON THE PLANS. ACTIVE PULL COVER, 180 DEGREE COVER OPENING TO LAY FLAT TO REDUCE TRIPPING HAZARDS. SPRING-LOADED SELF-CLOSING SLIDE CABLE EGRESS DOORS TO REDUCE EGRESS OPENING WHEN CABLES ARE EXISTING TO REDUCE TRIP HAZARDS. FLANGELESS FOR TILE APPLICATION. COLOR SHALL BE BY ARCHITECT.	
b. POKE THRU ASSEMBLY FLOOR DEVICES BOXES SHALL BE FACTORY-FABRICATED AND -WIRED ASSEMBLY OF BELOW-FLOOR JUNCTION BOX WITH MULTICHANNELED, THROUGH-FLOOR RACEWAY/FIRESTOP UNIT AND DETACHABLE MATCHING FLOOR SERVICE-OUTLET ASSEMBLY. SERVICE-OUTLET ASSEMBLY: RECESSED TYPE WITH TWO SIMPLEX RECEPTACLES AND SPACE FOR TWO RJ-45 JACKS RECESSED TYPE WITH FOUR SIMPLEX RECEPTACLES AND SPACE FOR FOUR RJ-45 JACKS COMPLYING WITH REQUIREMENTS IN SECTION 27 1500 "COMMUNICATIONS FLOOR-INTERNAL CABLEING." SIZE: SELECTED TO FIT MINIMUM NOMINAL 4-INCH CORED HOLES IN FLOOR AND MATCHED TO FLOOR THICKNESS. UNIT IS LISTED AND LABELED FOR FIRE RATING OF FLOOR-CEILING ASSEMBLY. WIRING RACEWAYS AND COMPARTMENTS: FOR A MINIMUM OF FOUR NO. 12 AWG CONDUCTORS AND A MINIMUM OF FOUR, FOUR-PAIR CABLES. COVER SHALL BE FLANGED OR FLANGELESS TO MATCH FLOORING TYPE. COVER COLOR SHALL BE BY ARCHITECT.	
c. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.	
4. BOXES FOR STRUCTURED CABLEING (DATA & PHONE) IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE 4 1/16" x 2 1/8", APPLETON, RAYCO OR EQUAL.	
5. ALL BOXES IN FINISHED SPACES SHALL BE PROVIDED WITH MUD RINGS AS REQUIRED FOR THE DEVICE AND WALL MATERIAL.	
6. OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE CAST METAL OR PVC OUTLET, JUNCTION, AND PULL BOXES.	
E. CONDUCTORS	
1. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER IN RACEWAY SIZED AS SHOWN ON THE PLANS. ALL CONDUCTORS TO BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE #8 AWG AND LARGER SHALL BE STRANDED.	
2. CONDUCTORS SHALL BE COPPER, THHN OR THWN-2 COLOR CODED IN ACCORDANCE WITH PART 3, SECTION C. 1. OF THESE SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS.	
F. WIRING CONNECTIONS	
1. MAKE ALL ELECTRICAL CONNECTIONS.	
2. MAKE CONNECTION TO DEVICES USING "PIG-TAILS". DO NOT USE A DEVICE AS A CONNECTION OR A SPLICE UNIT.	
3. DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER SCREWS. INSTALL CRIMP-ON, INSULATED, FORK TERMINALS FOR CONDUCTOR TERMINATIONS, OR INSTALL SOLID CONDUCTORS.	

ELECTRICAL SPECIFICATIONS

DEMOLITION

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND NECESSARY EQUIPMENT TO PERFORM ALL ELECTRICAL DEMOLITION AS SHOWN ON DRAWINGS. WHERE EQUIPMENT IS TO BE REMOVED IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DE-ENERGIZE AND DISCONNECT ALL POWER AND COMMUNICATION WIRES TO EQUIPMENT ALLOWING A SAFE REMOVAL OF EQUIPMENT. ABANDONED WIRESCABLING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE OR TO NEAREST UPSTREAM ACTIVE DEVICE/EQUIPMENT TO REMAIN. REMOVE ABANDONED JUNCTION BOXES. PROVIDE ALL WORK REQUIRED TO MAINTAIN EXISTING CIRCUITS OUTSIDE OF REMODEL AREA IN SERVICE. IF CONDUIT IS INACCESSIBLE, CUT FLUSH WITH THE STRUCTURAL SURFACE AND PATCH TO MATCH EXISTING FINISHED SURFACE.	
2. DEMOLITION WORK INDICATED IN DRAWINGS IS BASED ON CASUAL FIELD OBSERVATION AND AS-BUILT DRAWINGS. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISTURBING ANY EXISTING INSTALLATION. THE CONTRACTOR ACCEPTS THE EXISTING CONDITIONS OF PROJECT BY STARTING DEMOLITION WORK.	
3. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP. SALVAGED ITEMS TO BE RETURNED TO THE OWNER SHALL BE CAREFULLY REMOVED, BOXED, AND DELIVERED TO THE OWNER'S STORAGE SPACE.	
4. ALL CIRCUITS THAT WILL BE INSIDE SCOPE OF PROJECT SHALL BE MADE SAFE FOR CONSTRUCTION AND POWER SHALL BE MAINTAINED AND ESTABLISHED WHERE REQUIRED THROUGHOUT THE SCOPE OF THE PROJECT.	
5. ANY WIRES AND CONDUITS TO BE REUSED IN NEW CONSTRUCTION SHALL BE INSPECTED AND REPLACED AS REQUIRED FOR NEW CONSTRUCTION.	
6. WHERE EXISTING WORK TO REMAIN IN SERVICE IS DAMAGED, RESTORE TO ORIGINAL CONDITION USING NEW PRODUCTS OF EQUAL QUALITY AND CAPACITY.	
A. EXISTING FIRE ALARM DEVICES SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION. DURING TIMES WHERE SYSTEM CANNOT REMAIN IN SERVICE, PROVIDE 24-HOUR FIRE WATCH.	
B. TURN OFF UNUSED CIRCUIT BREAKERS AT THE PANEL AND LABEL AS "SPARE" ON CIRCUIT DIRECTORY.	
C. PROVIDE KNOCK-OUT SEALS FOR PANELBOARDS, J-BOXES, ETC. WHERE KNOCK-OUTS HAVE BEEN REMOVED.	
D. PROVIDE FILLER PLATES FOR EMPTY BREAKER SPACES IN PANELBOARDS.	
E. WHERE EXISTING DEVICES OR EQUIPMENT OBSTRUCT THE NEW CONSTRUCTION, RELOCATE, REWIRE, AND RECONNECT AS REQUIRED.	
F. WHERE EXISTING DEVICES/FIXTURES ARE TO REMAIN OR REUSED, BUT CEILINGS, FLOORS, OR WALLS, ARE BEING REFINISHED, DISCONNECT THE EXISTING DEVICE/FIXTURE AND STORE IN A SECURE LOCATION FOR REINSTALL. CLEAN DEVICES/FIXTURES. RECONNECT DEVICES/FIXTURES AFTER SURFACE IS REFINISHED. PROVIDE BOX EXTENDERS, ETC. AS REQUIRED FOR A FLUSH INSTALLATION. WHERE EXISTING SUPPORTS DO NOT MEET CURRENT CODES, PROVIDE ADDITIONAL SUPPORTS AS REQUIRED.	
G. PRIOR TO RUNNING NEW CIRCUITS TO EXISTING PANELS INDICATED, VERIFY EXISTING PANEL HAS ADEQUATE SPACE TO ACCOMMODATE NEW CIRCUITS. NOTIFY ENGINEER IF INDICATED EXISTING PANEL HAS INSUFFICIENT SPACE AND PROVIDE RECOMMENDATION FOR NEAREST PANEL WITH AVAILABLE SPACE THAT FEEDS SIMILAR LOAD TYPES FOR APPROVAL.	
H. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.	
I. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES. PROTECT ADJACENT AREAS OUTSIDE THE REMODEL AREA FROM DIRT AND DEBRIS.	
J. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.	
K. ROUTE ALL CONDUIT IN A HEAT AND FIRE RATED MANNER. CONDUITS SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.	
L. CAP AND LABEL ALL EMPTY CONDUITS TO REMAIN.	

ELECTRICAL SPECIFICATIONS

EXECUTION

A. GENERAL	
1. ALL MATERIALS SHALL BE INSTALLED IN A PROFESSIONAL MANNER INDICATIVE OF THE TRADE.	
2. ALL PENETRATIONS OF THE OUTSIDE WALLS OR ROOF SHALL BE SEALED WITH APPROPRIATE SEALANT OR CAULK FOR THE PARTICULAR SURFACE INVOLVED.	
3. PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE CIRCUIT NUMBER THAT THE RECEPTACLE IS CIRCUITED TO.	
4. PROVIDE UPDATED TYPED PANEL SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED.	
B. RACEWAYS	
1. RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE PARALLEL WITH SUPPORTING WALLS, BEAMS, AND CEILINGS AND WITH EACH OTHER CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEAT AND INSTALLED AS SHOWN AND SHALL NOT FLUME.	
2. RACEWAY ENDS SHALL BE REAMED AFTER THREADING AND AFTER CUTTING AND BE MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED.	
3. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET, BOX OR FITTINGS, AND SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE TO ANOTHER IS OBTAINED. CONDUITS SHALL BE SUPPORTED WITH ONE OR TWO HOLE STAMPED STEEL OR MALLEABLE IRON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR SUPPORTING CONDUIT. THE SIZE OF STRAP SHALL MATCH THE SIZE OF THE CONDUIT. NAILS, PERFORATED STRAP, OR PLUMBERS TAPE SHALL NOT BE USED FOR SUPPORT OF RACEWAY.	
4. PROVIDE 1/8" POLY PULL CORD IN RACEWAYS WITHOUT CONDUCTORS.	
5. FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES.	
C. CONDUCTORS	
1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT AND COLOR CODED AS FOLLOWS:	
PHASE 240/120 208/120 480/277	
PHASE A BLACK BLACK BROWN	
PHASE B RED RED ORANGE	
PHASE C BLUE YELLOW	
NEUTRAL WHITE WHITE GRAY	
GROUND GREEN GREEN GREEN	
2. MAKE JOINTS, SPLICES, TAPS AND CONNECTIONS IN CONDUCTORS WITH SOLDERLESS CONNECTORS.	
D. JUNCTION AND PULL BOXES	
1. PULL BOXES SHALL BE PROVIDED WHERE INDICATED AND WHERE NECESSARY TO FACILITATE THE PULLING OF CONDUCTORS. TELEPHONE RACEWAYS SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS BETWEEN TERMINATIONS OR BOXES.	
E. GROUNDING	
1. INSTALL CODE SIZED GROUNDING CONDUCTOR IN ALL RACEWAYS. DO NOT USE THE RACEWAY FOR GROUNDING. MAKE GOOD CONTACT AT ALL PANEL BOARDS, OUTLET BOXES, AND JUNCTION OR PULL BOXES TO THE RACEWAY SYSTEM. USE APPROVED BONDING MATERIALS.	
G. BONDING	
1. BOND ALL PIPING (GAS WATER, ETC) AS REQUIRED BY THE NEC. CONFIRM SYSTEMS TO BE USED WITH MC.	
H. SEISMIC REQUIREMENTS	
1. IF REQUIRED, RECESSED TYPE LIGHTING FIXTURES, IN ADDITION TO THE STANDARD SEISMIC CLIPS AND SUPPORT ON 1-BAR GRID SYSTEM, SHALL HAVE 2#12 STEEL SAFETY WIRES PER FIXTURE. ONE END OF EACH SAFETY WIRE SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE. THE OTHER END (6 INCHES LONGER THAN THE 1-BAR GRID SUPPORT WIRES) SHALL BE FASTENED TO DIAGONAL CORNERS OF EACH LIGHTING FIXTURE.	
I. CUTTING AND PATCHING	
1. PERFORM DRILLING, CUTTING, AND PATCHING OF THE GENERAL CONSTRUCTION WORK WHETHER EXISTING OR NEW, AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK. PATCH WITH THE SAME MATERIALS, WORKMANSHIP, AND FINISH AS THE ORIGINAL WORK AND ACCURATELY MATCH ALL SURROUNDING WORK. SUCH WORK WILL BE DONE BY A CRAFTSMAN ACCREDITED IN THE APPLICABLE TRADE UNDER THE CONTRACTOR'S SUPERVISION AND BE ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. COORDINATE WITH OTHER TRADES AND GENERAL CONTRACTOR PRIOR TO CUTTING, DRILLING, OR CORING.	
K. TESTING	
1. DEMONSTRATE THAT ALL COMPONENTS OF THE WORK OF THIS DIVISION HAVE BEEN PROVIDED AND THAT THEY OPERATE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	
2. TEST WIRING AND CONNECTORS FOR CONTINUITY, SHORT CIRCUITS AND IMPROPER GROUNDS. TEST EACH LIGHTING AND APPLIANCE PANEL WITH MAINS DISCONNECTED FROM FEEDERS, BRANCHES CONNECTED, WALL SWITCHES CLOSED AND FIXTURES PERMANENTLY CONNECTED AND COMPLETE WITH LAMPS. TEST EACH INDIVIDUAL POWER CIRCUIT WITH THE POWER EQUIPMENT CONNECTED FOR PROPER OPERATION.	
3. PROVIDE DETAILED DOCUMENTATION OF EACH TEST PERFORMED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, WITH THE NAMES AND THE SIGNATURES OF QUALIFIED INDIVIDUALS WHO CONDUCTED AND WITNESSED EACH TEST.	

ELECTRICAL SPECIFICATIONS

GENERAL

A. DESCRIPTION	
1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.	
B. RULES AND REGULATIONS	
1. ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFIED.	
2. THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, STANDARDS, AND AMENDMENTS, AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION, SHALL FORM A PART OF THIS SPECIFICATION THE SAME AS IF HEREIN WRITTEN OUT IN FULL (ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS THEREOF):	
a. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), PUBLICATION NUMBER 70, "NATIONAL ELECTRICAL CODE," EDITION NO. 725: "AUTOMATIC FIRE DETECTORS".	
b. UL (UNDERWRITERS LABORATORIES, INC.).	
c. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION).	
d. UBC (UNIFORM BUILDING CODE) AND STANDARD BUILDING CODE.	
e. IBC (INTERNATIONAL BUILDING CODE)	
f. IFEC (INTERNATIONAL FIRE CODE)	
g. IECC (INTERNATIONAL ENERGY CONSERVATION CODE)	
h. IEC (INTERNATIONAL ELECTRICAL CODE) STATE AND	
i. LOCAL BUILDING AUTHORITY AND CODES	
3. NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO VOID ANY OF THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.	
C. PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL APPLY, PAY FOR AND SCHEDULE ALL APPLICABLE PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY AND ALL PUBLIC AUTHORITIES HAVING JURISDICTION AND REQUIRING INSPECTION.	
1. EC SHALL INCLUDE ALL UTILITY COMPANY CHARGES IN THE BASE BID.	
D. WORKMANSHIP AND MATERIALS	
1. WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT PERSONNEL SKILLED IN THEIR TRADE SHALL BE EMPLOYED. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO WILL BE IN CHARGE OF THE EXECUTION OF WORK, UNTIL COMPLETED AND ACCEPTED.	
2. ALL MATERIALS AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE AND AS LISTED IN PRINTED CATALOGS OF THE MANUFACTURER. EACH ARTICLE OF IT'S KIND SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER.	
3. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT TO ACCEPT OR REJECT MATERIAL EQUIPMENT AND/OR WORKMANSHIP AND DETERMINE WHEN THEY HAVE COMPLIED WITH THE REQUIREMENTS HEREIN SPECIFIED.	
4. ALL MANUFACTURED MATERIALS SHALL BE CLEARLY MARKED OR STAMPED WITH THE MANUFACTURER'S NAME AND RATING.	
5. REFERENCE TO STANDARDS ARE INTENDED TO BE THE LATEST REVISION OF THE STANDARD SPECIFIED, OR THAT ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.	
E. MANUFACTURER'S RECOMMENDATIONS	
1. EQUIPMENT INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.	
F. GUARANTEE ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR. SHOULD ANY TROUBLE OR MALFUNCTIONS DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR WILL BE HELD LIABLE AND SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CORRECT THE TROUBLE OR MALFUNCTION WITHOUT ADDITIONAL COST TO THE OWNER. ALL DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTICED DURING THE TIME OF I NSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER, AT NO ADDITIONAL COST.	
G. DEFINITIONS	
1. "PROVIDE" - MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDICATED.	
2. "FURNISH" - MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PROJECT SITE.	
3. "INSTALL" - MEANS TO PHYSICALLY INSTALL THE ITEMS IN PLACE.	
4. "CONNECT" - MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE OPERATING PIECE OF EQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS APPLICABLE.	
5. "OR EQUIVALENT" - MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO BIDDING.	
H. SUBMITTALS	
1. PROVIDE SHOP DRAWINGS AND MANUFACTURER'S LITERATURE OF MATERIALS AND EQUIPMENT AS REQUIRED IN THE GENERAL CONDITIONS, AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS LISTED BELOW:	
2. CATALOG CUTS	
a. SAFETY SWITCHES	
b. CIRCUIT BREAKERS (EACH SIZE AND TYPE)	
c. MOTOR STARTERS	
d. THERMAL SWITCHES	
e. LIGHT FIXTURES	
3. THE ABOVE IS A STANDARD SUBMITTAL REQUIREMENT LIST. ELECTRICAL CONTRACTOR SHALL SUBMIT APPLICABLE ITEMS FOR REVIEW. MATERIAL NOT SUBMITTED AND APPROVED BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS COST IF DIRECTED BY THE ARCHITECT, ENGINEER OR THE OWNER'S REPRESENTATIVE.	

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(509) 499-3443 | info@resolutgroup.com
resolutgroup.com

Project #: 250166
PM: Nikko Bowlers

ISSUE DATE: 05.20.2025

REV DATE COMMENT

PROFESSIONAL ENGINEER
REGISTERED
2023/09
05/20/25
STATE OF IDAHO
LEWIS WONG

TITLE

PROJECT

CLIENT

JOB NO: 240128

EGO-02

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St. Lewiston, ID 83501

Lewis Clark State College

5/21/2025 10:54:01 AM

Approved

State of Idaho

DOPL

PA#: 1623597

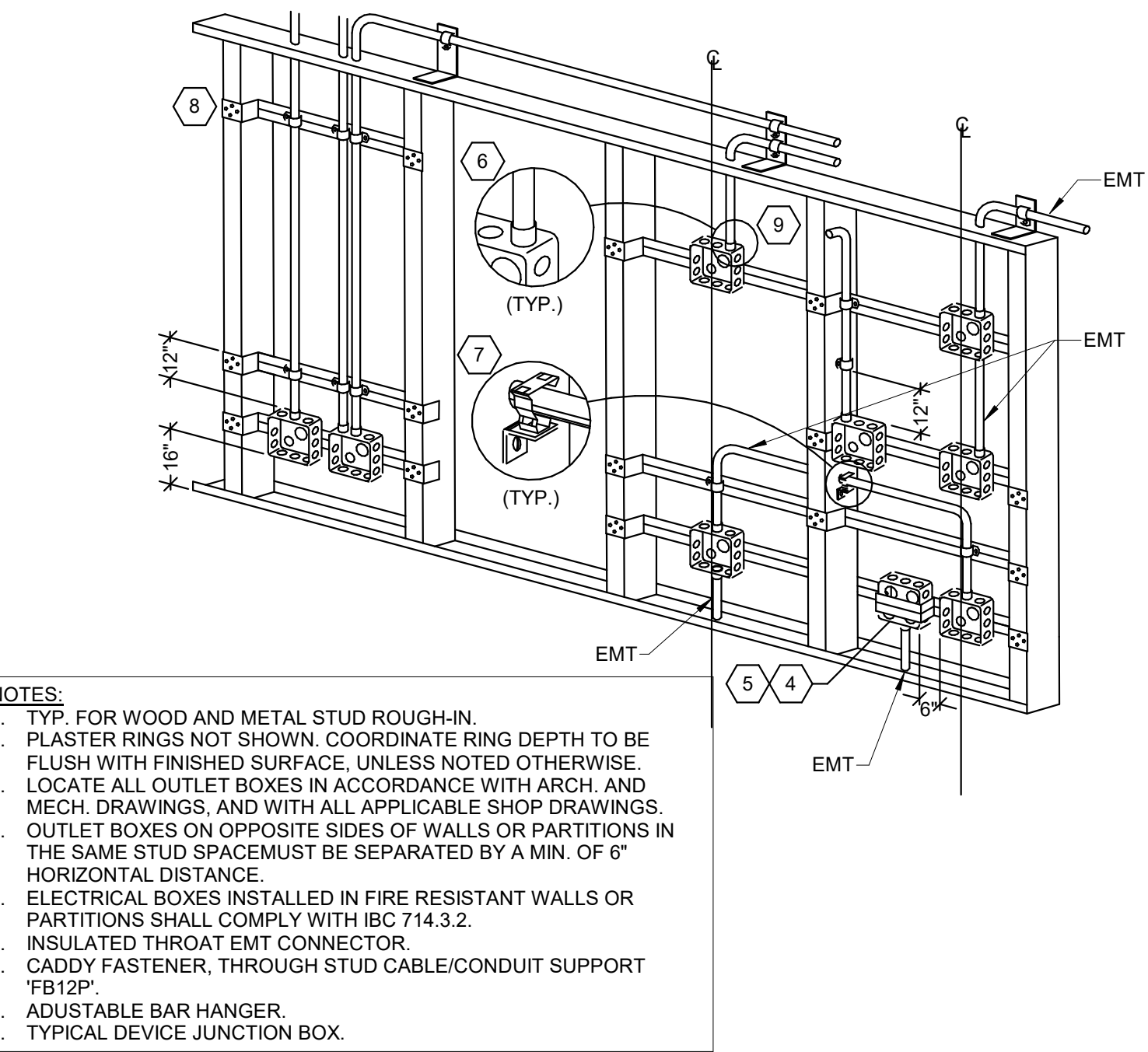
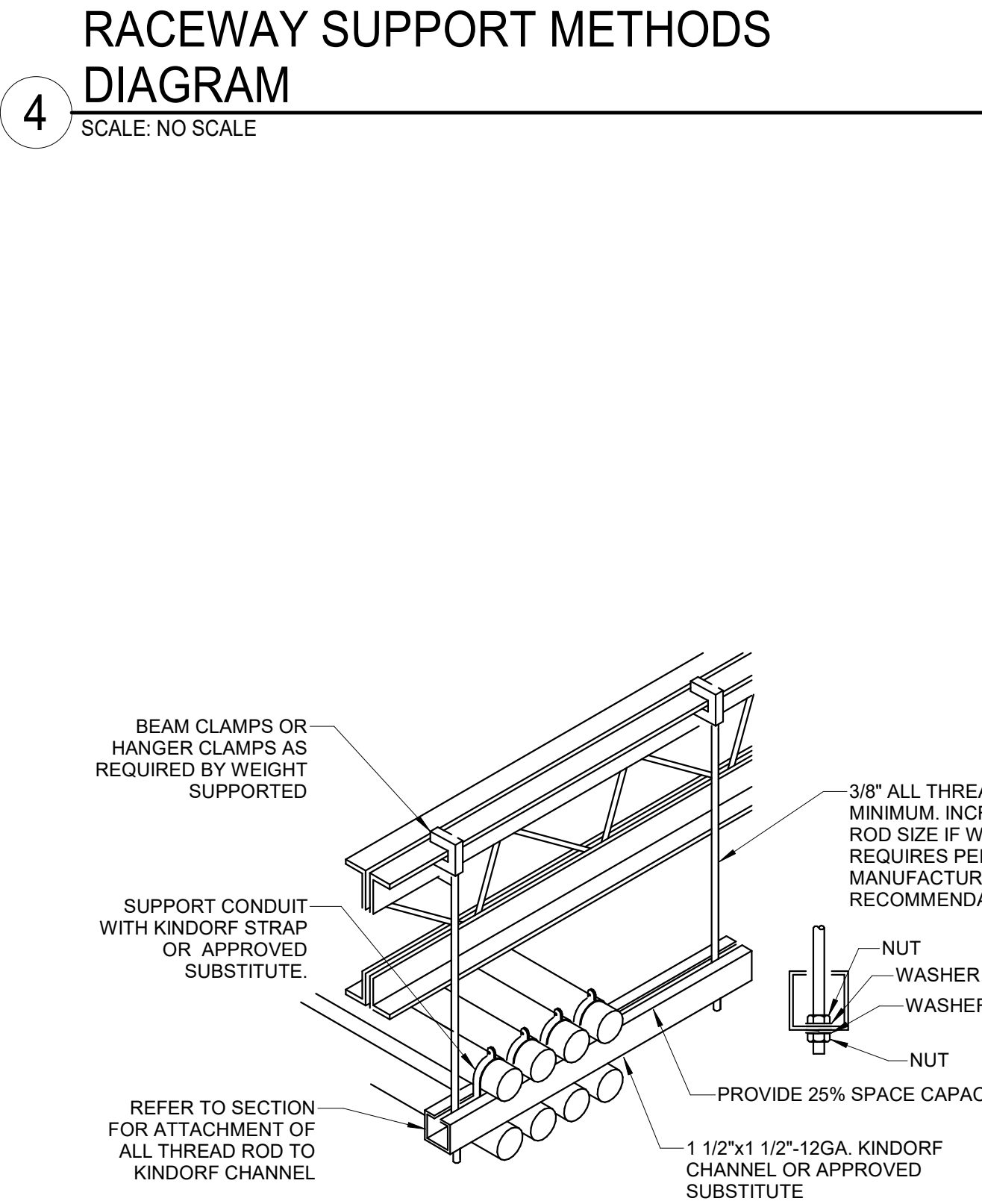
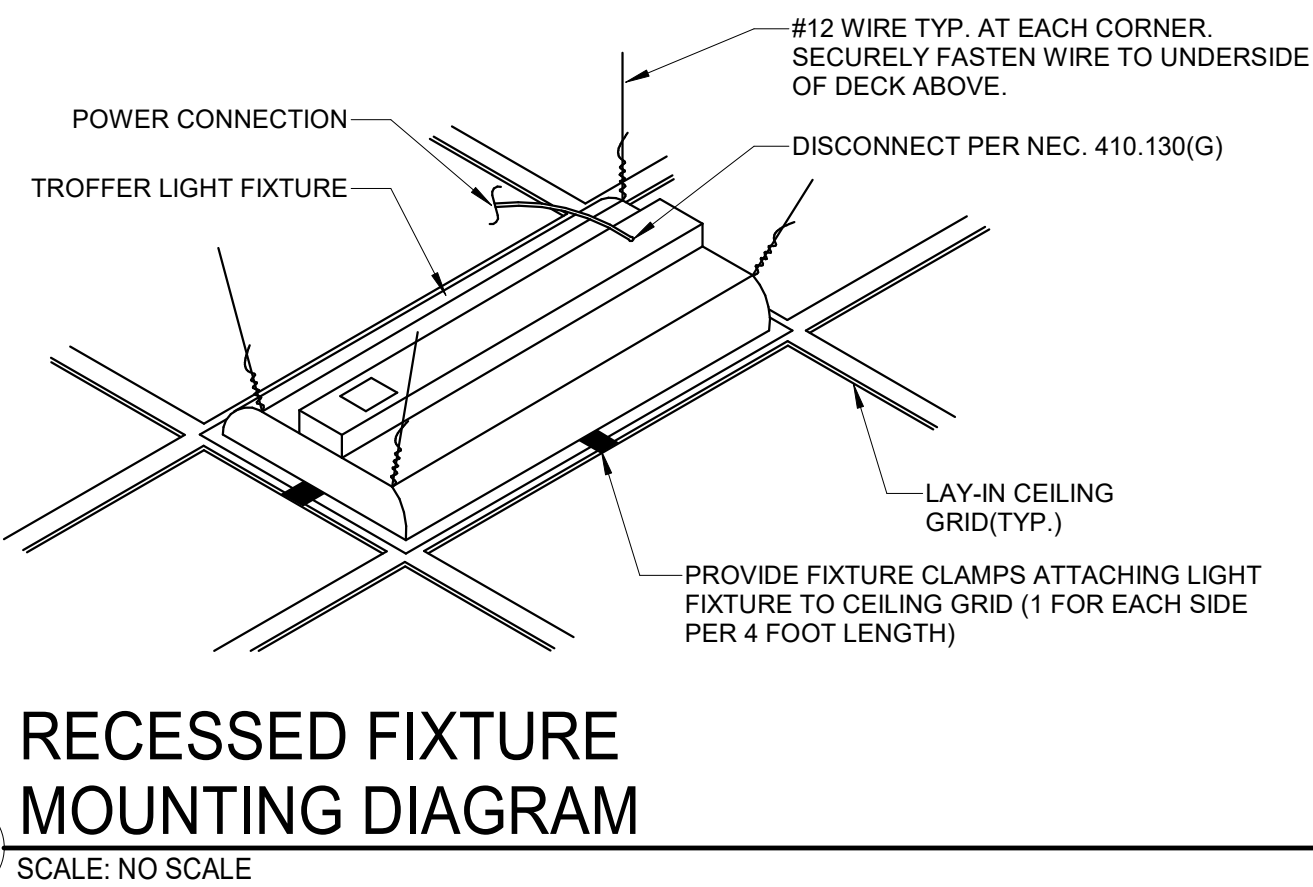
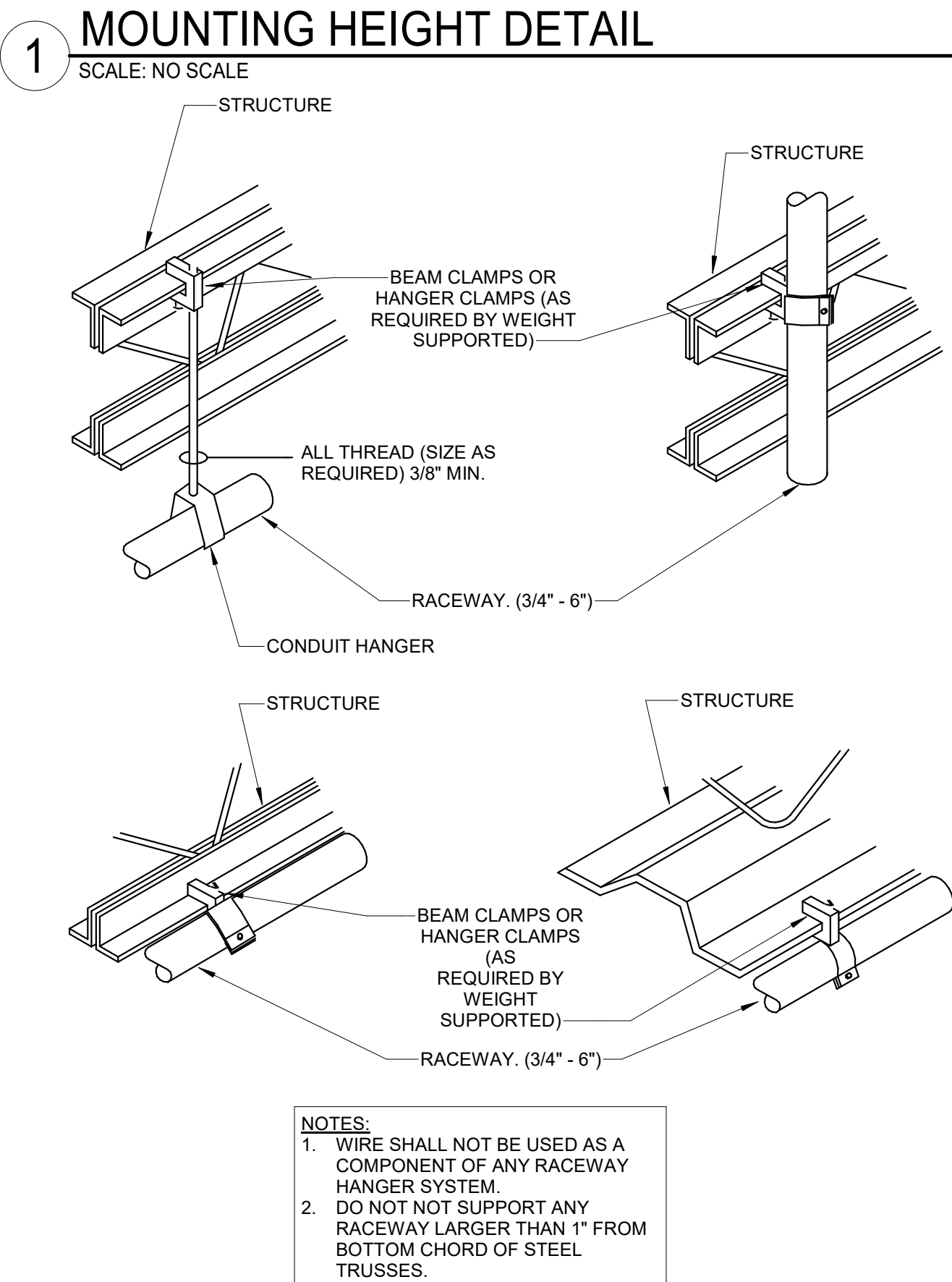
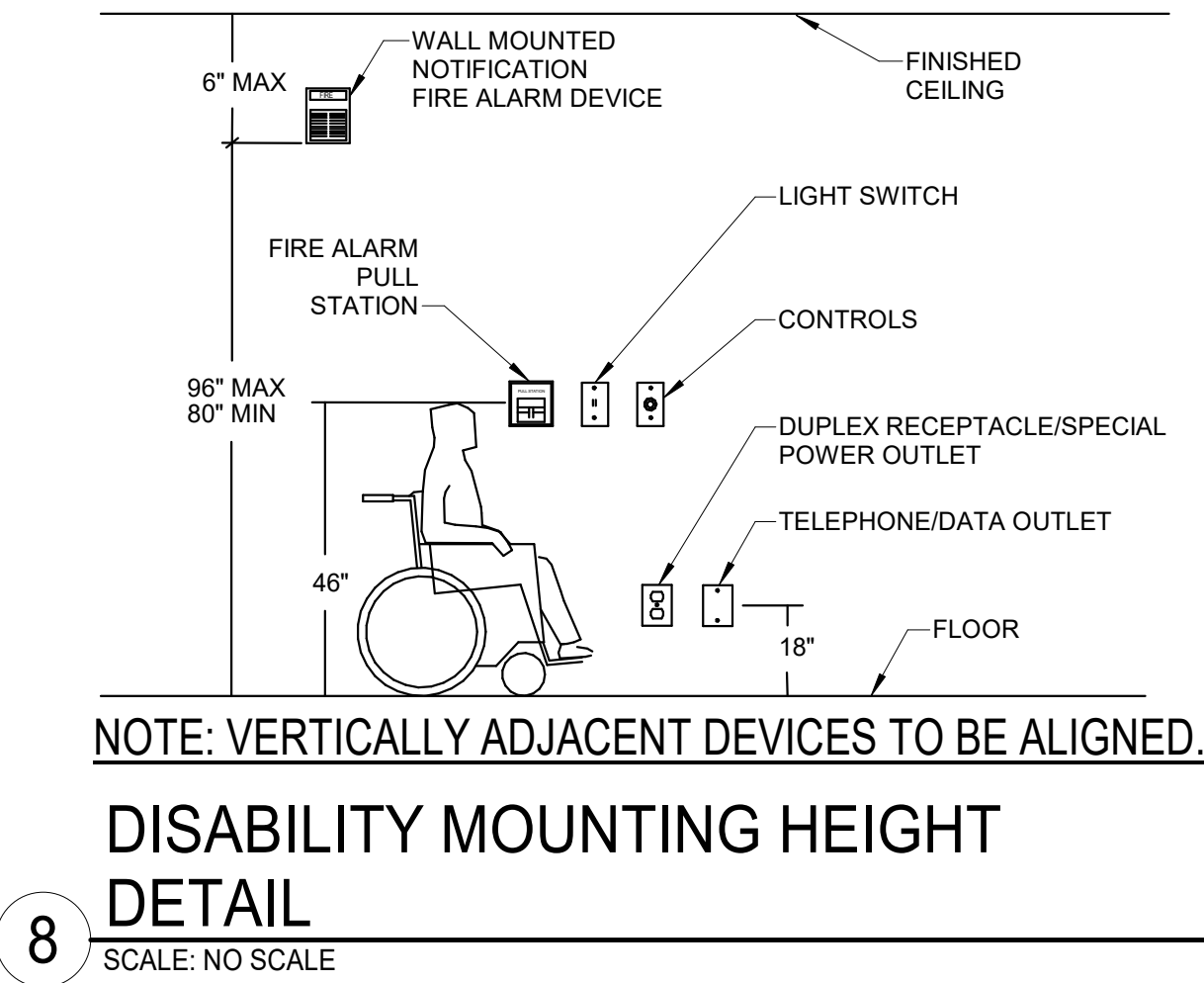
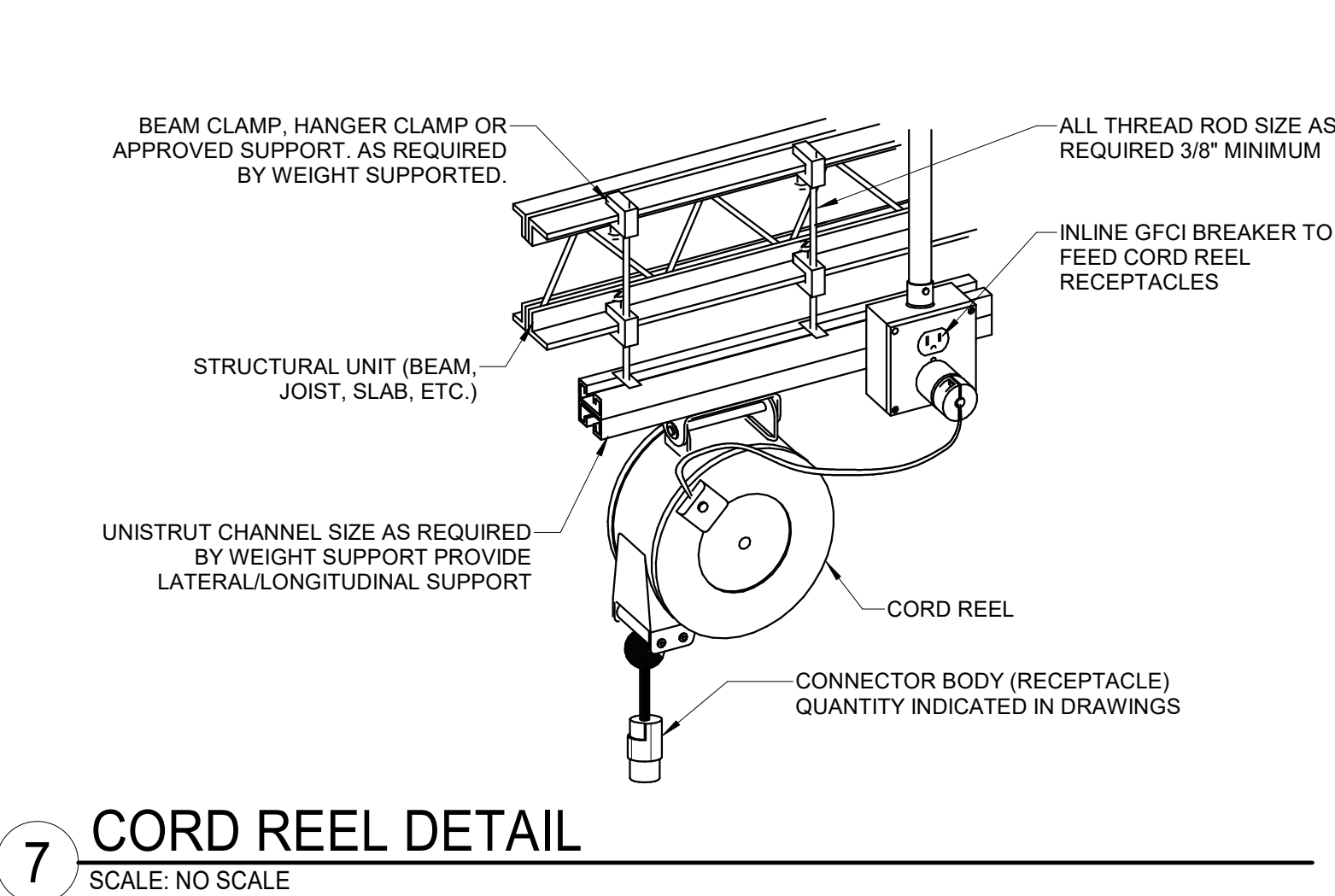
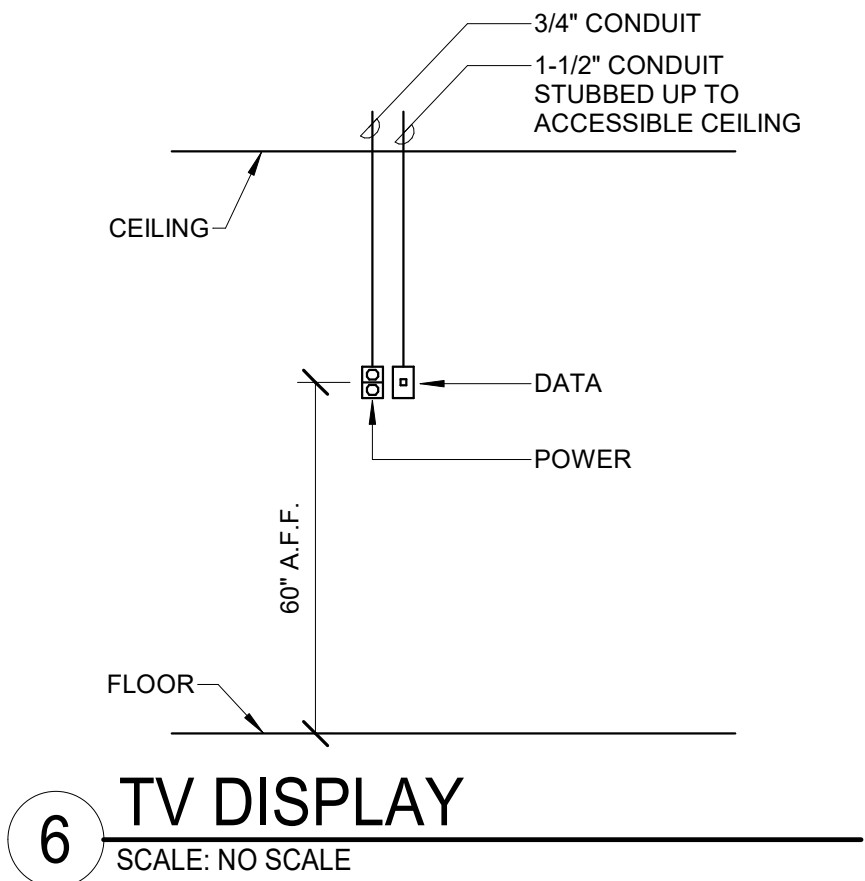
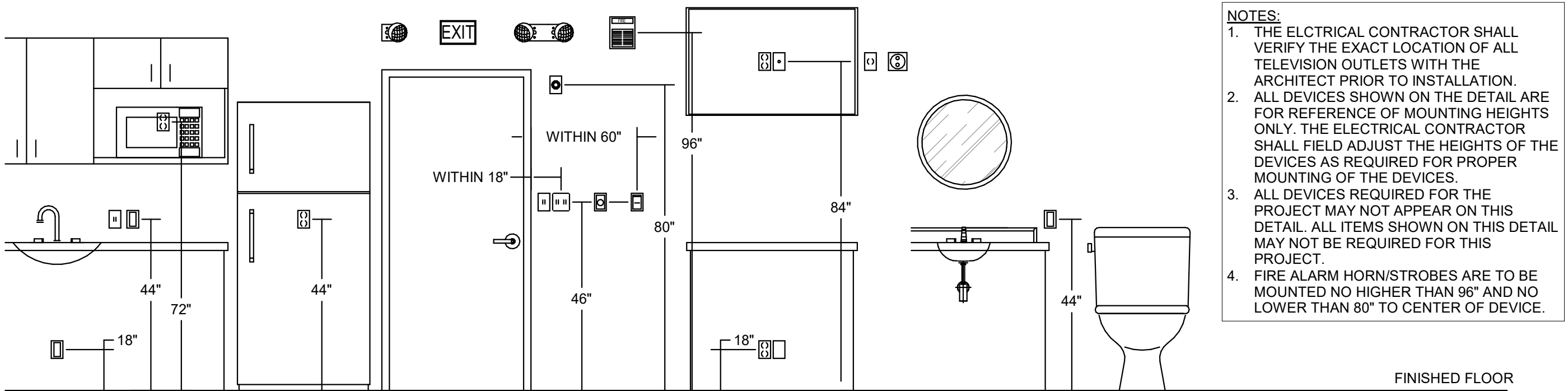
Date: 6/6/2025

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(509) 949-3443 | info@resolutgroup.com
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Project #: 250146
PM: Nikko Bowers

ISSUE DATE: 05.20.2025

REV DATE COMMENT



ELECTRICAL DETAILS

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240128

EG5-01

Approved

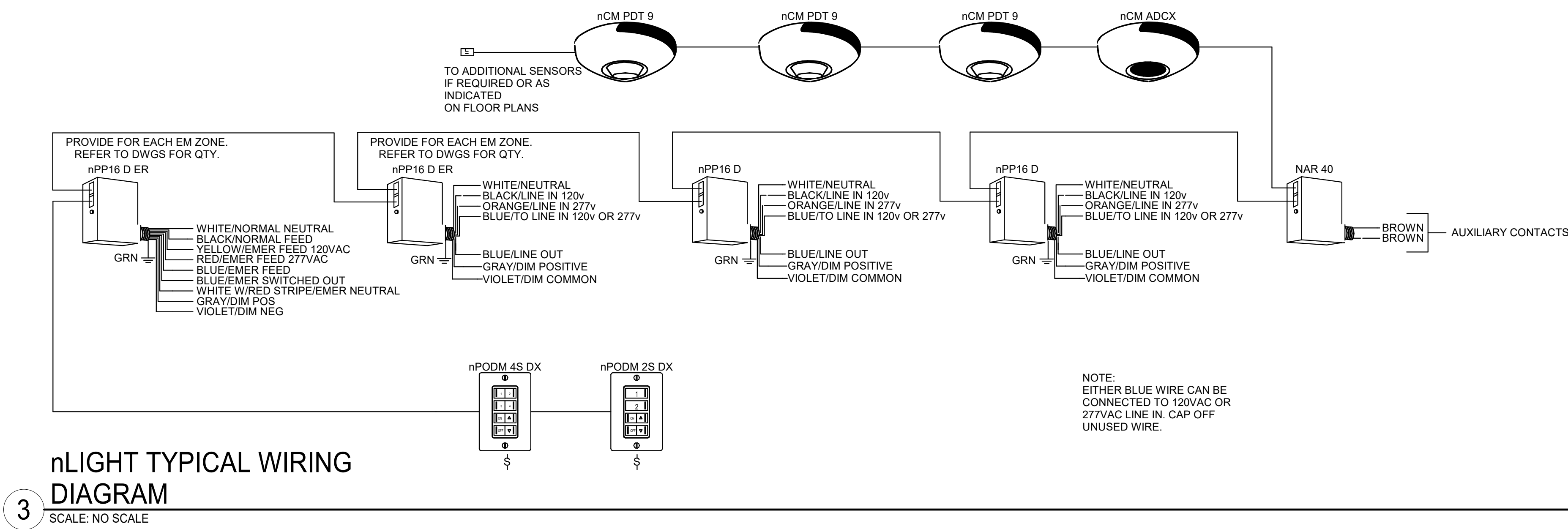
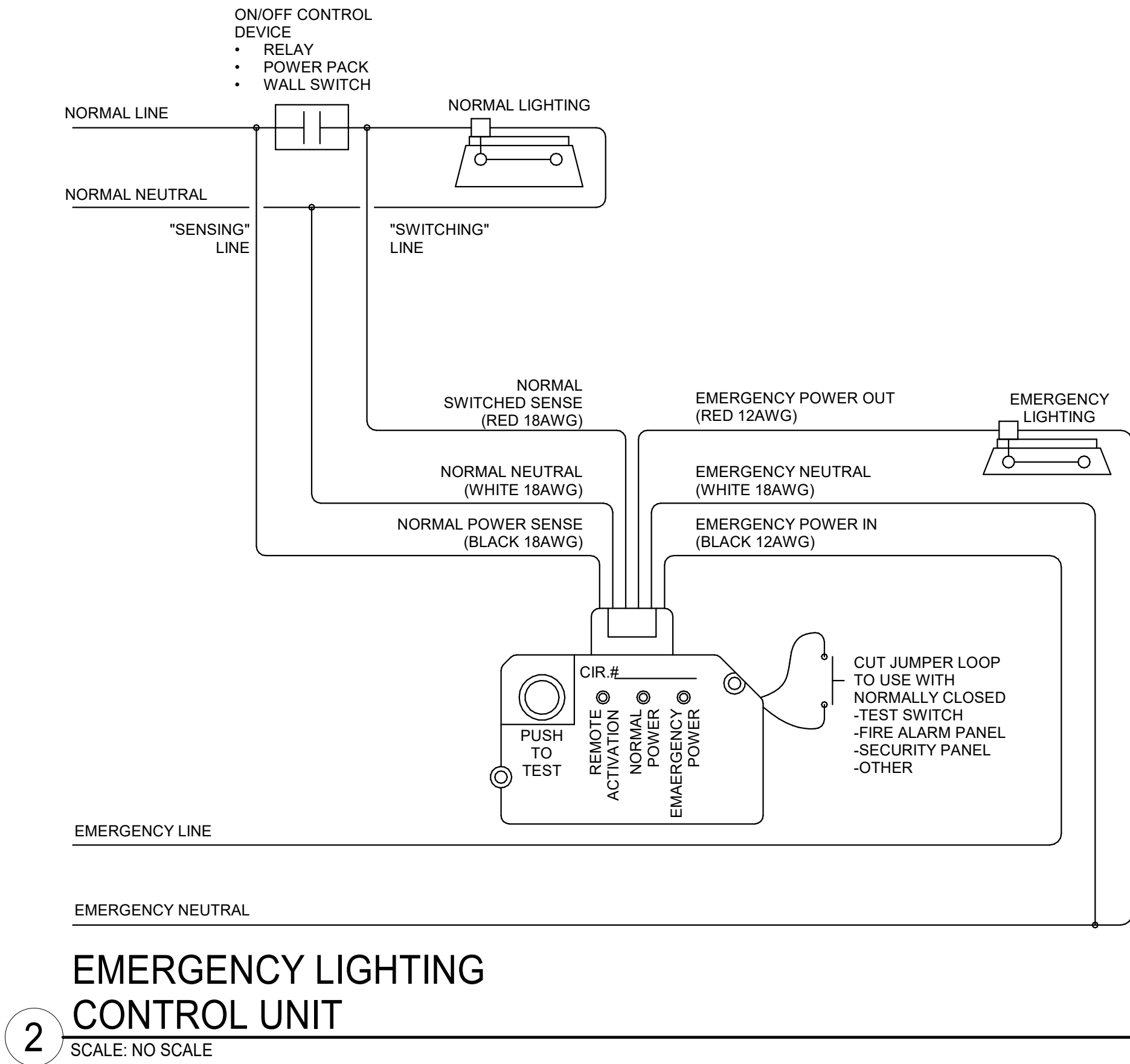
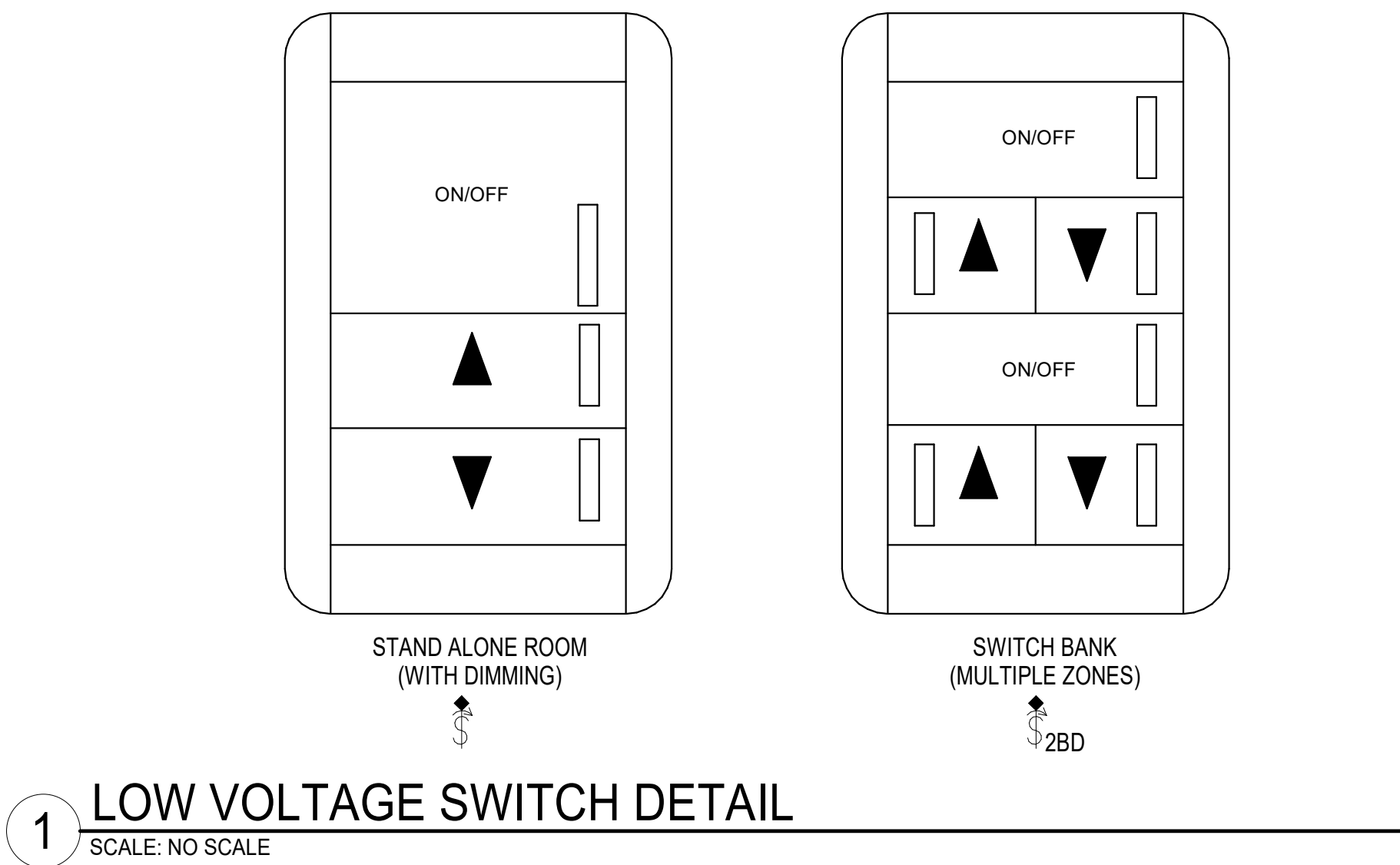
State of Idaho
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Project #: 250146
PM: Nikko Bowers

ISSUE DATE: 05.20.2025

REV DATE COMMENT

ELECTRICAL DETAILS
LCSC MLT & PA LAB
Sam Glenn Complex 500 4th St Lewiston, ID 83501
Lewis Clark State College

TITLE
PROJECT
CLIENT

JOB NO: 240128

EG5-02

Autodesk Docs://240218 - LCSC Med Lab

Branch Panel: (R) LC5

Location: HALL 124

Supply From: Mounting: RECESSED

Enclosure: NEMA1

Volts: 208Y/120

Phases: 3

Wires: 4

A.I.C. Rating: 10,000 AMPS SYMMETRICAL

Main Type: MLO

Main Rating: 125.0 A

CKT	Circuit Description										Code	BRK	P	Size	A (VA)		B (VA)		C (VA)		Size	P	BRK	Code	Circuit Description										CKT
1	(E) RECEPTACLES										1	20 A	1		720	90									(N) Storage 127 - 208V Recept					2					
3	(R) MLT Lab 125 - Receptacle										2	20 A	1				540	90												4					
5	(R) MLT Lab 125 - Receptacle										2	20 A	1						706	180					(R) Micro/Equip 126 - Chem Hood					6					
7	(R) MLT Lab 125 - Receptacle										2	20 A	1		1080	720									(R) Micro/Equip 126 - Receptacle					8					
9	(R) MLT Lab 125 - Receptacle										2	20 A	1				1080	900							(R) Storage 127 - Receptacle					10					
11	(E) FIREFLYS / SMOKEs										1	20 A	1						200	180					(R) MLT Lab 125 - Floor Box Lectern					12					
13	(E) CEILING RECEPTACLES										1	20 A	1		180	540									(R) Micro/Equip 126, Stor. 127 ...					14					
15	(E) CEILING RECEPTACLES										1	20 A	1				180	700							(E) AIR COMPRESSOR RM B133					16					
17	(E) CEILING RECEPTACLES										1	20 A	1						180	2882										18					
19	(E) CEILING RECEPTACLES										1	20 A	1		180	2882			180	2882					(E) MAIL ROOM PAPER CUTTER					20					
21	(E) CEILING RECEPTACLES										1	20 A	1																	22					
23	(E) WATER HEATER RM B124										1	20 A	1						1000	500										24					
25	(E) CEILING RECEPTACLES										1	20 A	1		180	500									(E) CEILING RECEPTACLES					26					
27	(R) MLT Lab 125 - Cord Reel										2	20 A	1				720	500												28					
29	(R) MLT Lab 125 - Cord Reel										2	20 A	1						720	500					(E) RM (FOLDER 124)					30					
Total Load:															7072 VA		7706 VA		6970 VA																
Total Amps:															59.1 A		64.4 A		58.1 A																

Code:

1 = (E) CIRCUIT IS TO REMAIN

3 = (N) PROVIDE NEW CIRCUIT BREAKER AS INDICATED.

2 = (R) REVISED CIRCUIT. UTILIZE EXISTING CIRCUIT. ...

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7422 VA	100.00%	7422 VA	Total Conn. Load:	21740 VA
Spare	14346 VA	100.00%	14346 VA	Total Est. Demand:	21740 VA
				Total Conn.:	60.3 A
				Total Est. Demand:	60.3 A

Notes:

NET REDUCTION IN LOAD OF 6.444VA.

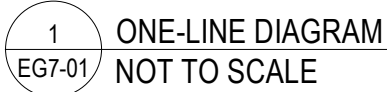
LIGHTING FIXTURE SCHEDULE - MLT LAB									
Type	CONSTRUCTION		LIGHTING		ELECTRICAL		PRODUCTS		NOTE
	DESCRIPTION		LAMP	LUMENS	VOLT	VA	MFR	CATALOG NUMBER	
A	2X4 RECESSED TROFFER		LED	2810 lm	277 V	20 VA	RAB	C-SWISH-2X4-4000	
Luminaire Schedule General Notes:									
1 REFER TO LUMINAIRE DESCRIPTION FOR FIXTURE REQUIREMENTS. MANUFACTURES MODEL NUMBERS MAY NOT BE SPECIFIC OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE FIXTURES AS DESCRIBED ON THIS SCHEDULE WITH ALL MOUNTING HARDWARE AND EQUIPMENT FOR A COMPLETE INSTALLATION.									
2 REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWINGS FOR EXACT FIXTURE LOCATIONS AND CEILING TYPES. VERIFY EXACT CEILING TYPES AND BRING TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER ANY DISCREPANCIES PRIOR TO BID. FIXTURES SHALL MATCH ARCHITECTURAL CEILING TYPES.									
3 PROVIDE ALL FIXTURE SUPPORT AND SUSPENSION BRACING TO SECURE FIXTURE TO STRUCTURE, WALLS AND CEILING SYSTEMS. REFER TO MOUNTING DETAILS FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL POLE BASES AS SHOWN ON THE DETAILS.									
4 PRIOR APPROVAL SHALL BE REQUIRED FOR ALL MANUFACTURES WHO ARE NOT LISTED ON THIS SCHEDULE. THE PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER (I) WORKING DAYS PRIOR TO THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME CUT-OFF SHALL NOT BE REVIEWED OR APPROVED.									
5 SUBMITTALS FOR PRIOR APPROVAL SHALL BE EQUIVALENT TO THE SPECIFIED FIXTURES AND REVIEWED AND SIGNED BY THE PRINCIPLE OF THE ORGANIZATION THAT IS SUBMITTING FOR APPROVAL. PROVIDE COMPLETE FIXTURE SUBMITTALS AS LISTED IN THE SPECIFICATION. ALL INFORMATION THAT DOES NOT APPLY TO THE FIXTURE BEING SUBMITTED SHALL BE CROSSED OUT BY THE ELECTRICAL ENGINEER SHALL BE THE FINAL DETERMINATION IF THE FIXTURE IS EQUIVALENT OR NOT.									
6 FIXTURES WHOSE TYPE HAS BEEN APPROVED AS EQUIVALENT TO THE SPECIFIED FIXTURES SHALL BE LISTED IN AND ADDITIONAL PRIOR TO BID. LIGHT FIXTURES WITHOUT PRIOR APPROVAL ARE REJECTED AND CONTRACTOR SHALL BASE THEIR BID ON THE APPROVED LISTED FIXTURES. A VERBAL APPROVAL WILL NOT BE GIVEN OR...									
7 ANY ADDITIONAL TIME REQUIRED TO VERIFY IF A FIXTURE MEETS ALL PHOTOMETRIC REQUIREMENTS SHALL BE PAID BY THE AGENCY REQUESTING APPROVAL. PHOTOMETRIC POINT-BY-POINT PLANS MAY BE REQUIRED FROM THE AGENCY SUBMITTING FOR APPROVAL INDICATING EQUIVALENCY.									
8 COLOR TEMPERATURE FOR ALL INTERIOR LUMINAIRES BE 4000K AND 3000K FOR EXTERIOR LUMINAIRES UNLESS NOTED OTHERWISE IN THE SCHEDULE.									
9 VERIFY EXACT FIXTURE FINISHES WITH THE ARCHITECT PRIOR TO SUBMITTAL.									
10 PROVIDE MINIMUM 5 YEAR WARRANTY ON ALL LIGHT FIXTURES.									
11 LED LIGHT FIXTURES SHALL MEET LM79 AND LM80 STANDARDS WITH +50,000 HOUR L70 LAMP LIFE.									
12 LUMINAIRE SHALL BE LISTED PER NEC 410.6									
13 LUMENS SPECIFIED FOR FIXTURES WITH INTEGRAL LEDS ARE TOTAL DELIVERED FIXTURE LUMENS									
14 FIXTURES IDENTIFIED AS EMERGENCY ON THE PLANS SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK OR REMOTE INVERTER WITH A 1400 LUMEN OUTPUT/ MINIMUM FOR EACH EMERGENCY FIXTURE OR FULL LUMEN OUTPUT IF LUMEN OUTPUT OF LUMINAIRE IS LESS THAN 1400 LUMEN.									
15 PROVIDE DIMMING WIRING TO ACCOMMODATE DIMMING PROTOCOL. SPECIFIED ON SCHEDULE FOR A COMPLETE DIMMABLE SYSTEM.									
16 PROVIDE BATTERY PACK FOR EXIT SIGNS NOT TIED TO AN EMERGENCY CIRCUIT ON GENERATOR.									

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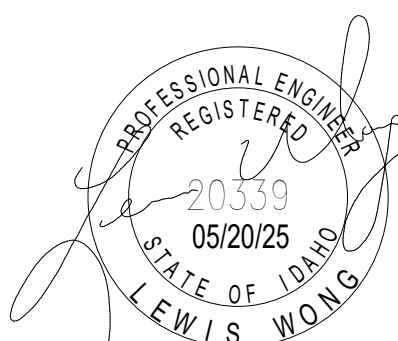
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1. DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.
2. ONE LINE DIAGRAM IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES DURING WORK.



REV	DATE	COMMENT
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JOB NO: **240128**

EG7-01

Approved

State of Idaho

DOPL

PLA#: 1623597

Date: 6/6/2025

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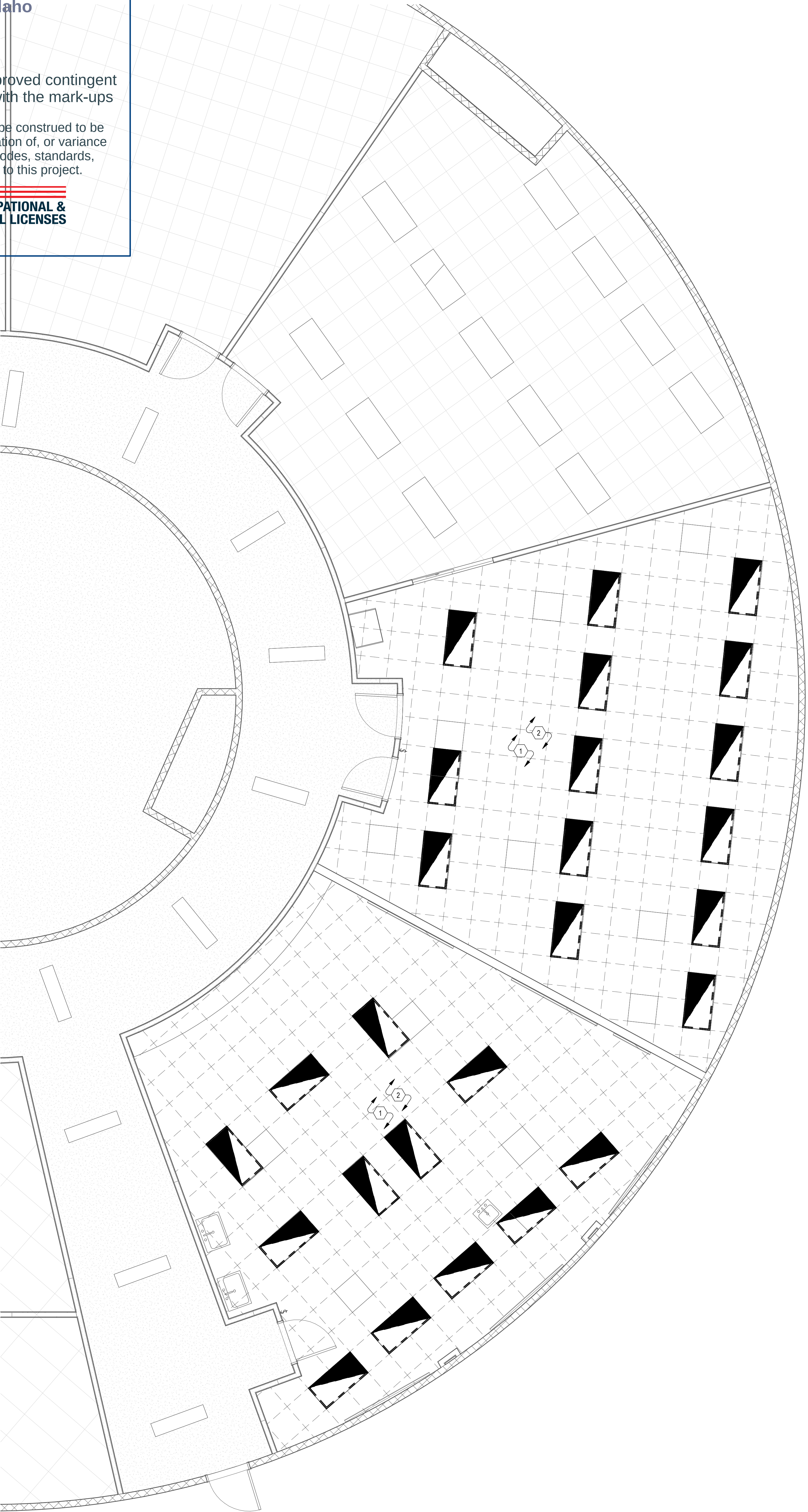
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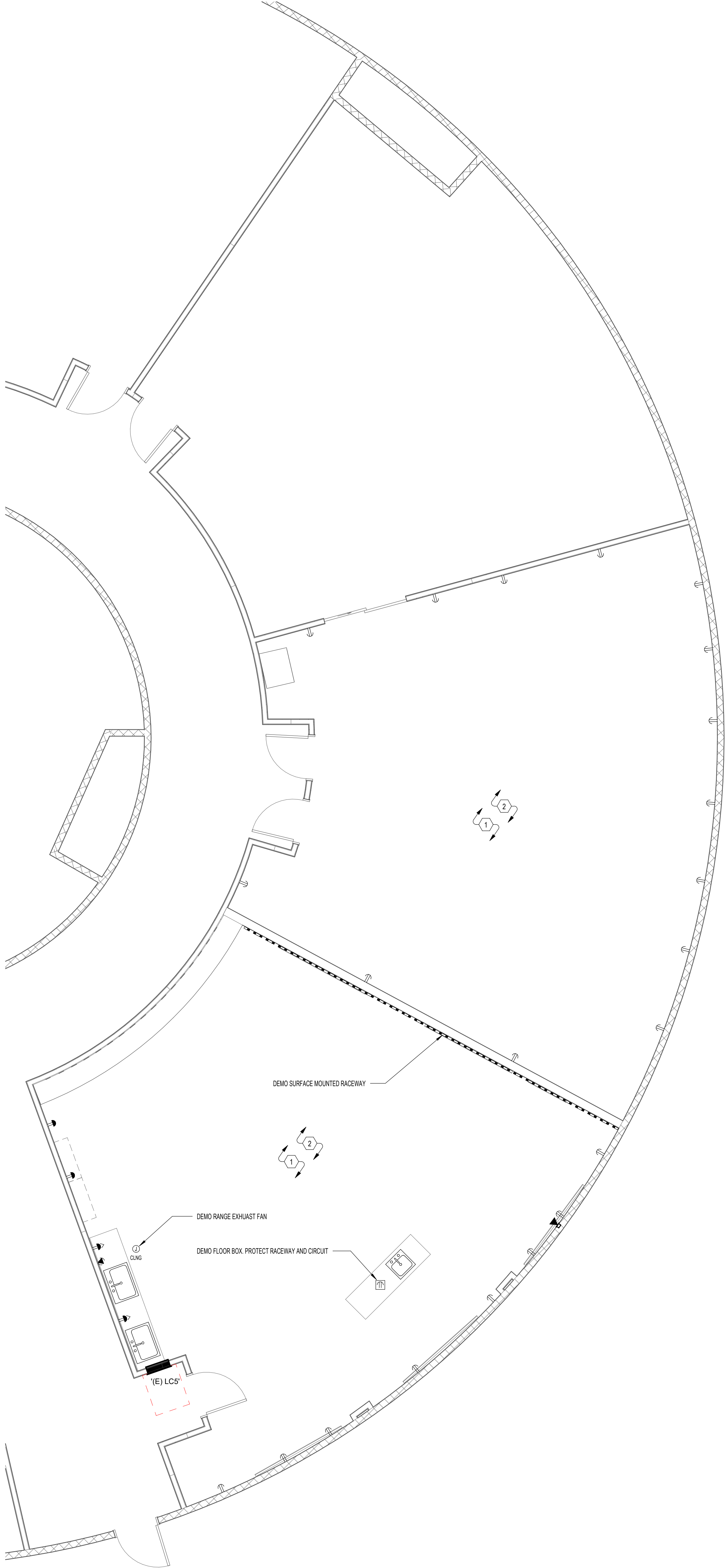
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Autodesk Docs // 240218 - LCSC Med Lab

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1 LEVEL 1 LIGHTING DEMOLITION PLAN
ED1-01 1/4" = 1'-0"



2 LEVEL 1 POWER DEMOLITION PLAN
ED1-01 1/4" = 1'-0"

KEYED NOTES

- EXISTING FIXTURES TO BE DEMOLISHED. PROTECT EXISTING CIRCUIT FOR NEW LIGHT FIXTURES.
- CONTRACTOR SHALL DEMOLISH ELECTRICAL DEVICES, LIGHTING CONTROL DEVICES, AND FIRE ALARM DEVICES IN THIS SPACE. CONTRACTOR MAY PROTECT EXISTING RACEWAYS AND CIRCUITS FOR USE WITH NEW DEVICES TO MEET NEW DESIGN INTENT.

GENERAL NOTES

- EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
- CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
- DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.

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www.resolutgroup.com

Project #: 250146

PM: Nikko Bowers

ISSUE DATE: 05.20.2025

REV DATE COMMENT

LEVEL 1 ELECTRICAL DEMOLITION PLANS

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE PROJECT CLIENT

JOB NO: 240128

ED1-01

Approved

State of Idaho

DOPL

PA#: 1623597

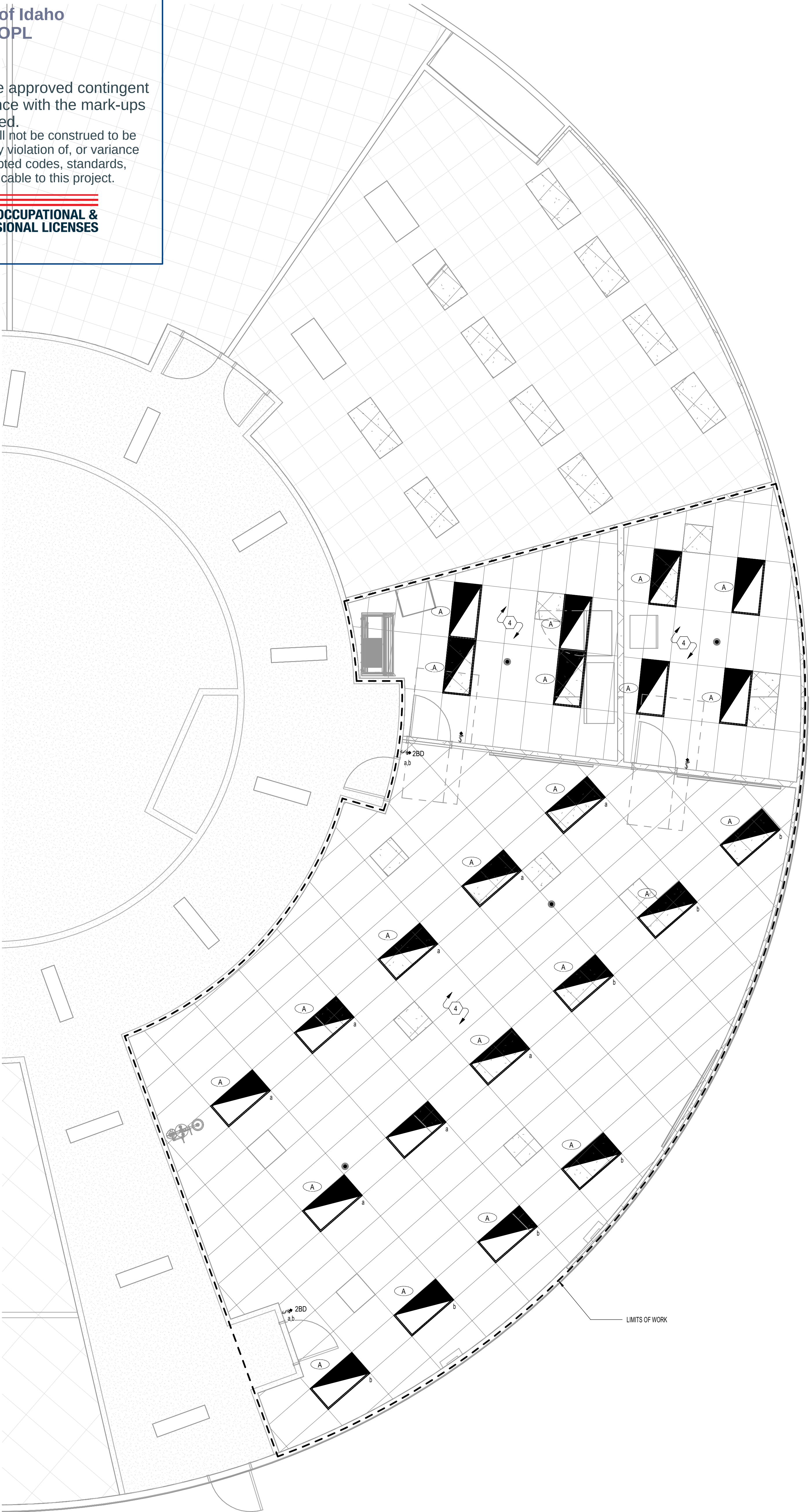
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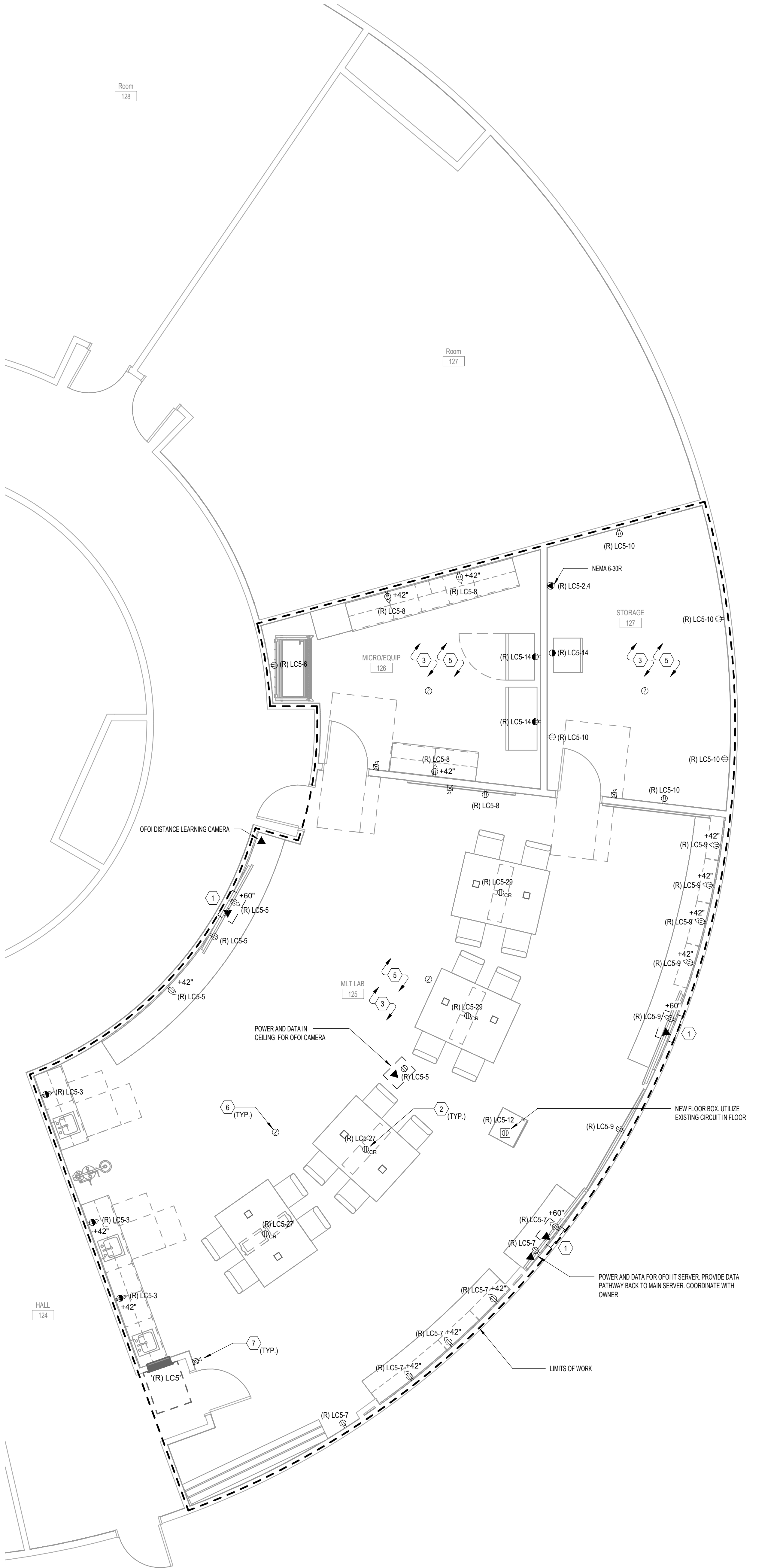
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1
E1-01
LEVEL 1 LIGHTING PLAN
1/4" = 1'-0"



2
E1-01
LEVEL 1 POWER PLAN
1/4" = 1'-0"

KEYED NOTES

- POWER AND DATA FOR OFOI MONITOR. CONTRACTOR SHALL RUN CIRCUIT ABOVE CEILING AND DROP DOWN BEHIND MONITOR FROM ABOVE. TERMINATE CABLE IN OFOI TV BOX. COORDINATE WITH OWNER.
- 4' RECEPTACLE CEILING MOUNTED CORD REEL.
- CONTRACTOR SHALL UTILIZE EXISTING CIRCUITS TO THE EXTENT POSSIBLE. PROVIDE NEW CIRCUITS TO NEAREST PANEL AS REQUIRED TO MEET DESIGN INTENT. WHERE NEW CIRCUITS ARE REQUIRED, EC SHALL PROVIDE BREAKERS THAT MATCH THE EXISTING PANEL A/C RATING.
- UTILIZE EXISTING LIGHTING CIRCUIT ON PANEL. HCS FOR NEW LIGHT FIXTURES.
- CONTRACTOR SHALL UTILIZE ABOVE THE CEILING SPACE AS MUCH AS POSSIBLE TO REDUCE SURFACE CONDUIT RUNS. EXISTING DEVICES THAT MATCH THE DESIGN INTENT MAY BE REUSED BUT SHALL BE REPLACED WITH NEW TO MATCH NEW DEVICES IN SPACE.
- FURNISH AND INSTALL ADDRESSABLE FIRE ALARM DEVICE AS SHOWN. TIE TO EXISTING FIRE ALARM INITIATION LOOP.
- FURNISH AND INSTALL NOTIFICATION FIRE ALARM DEVICE AS SHOWN. TIE TO EXISTING FIRE ALARM INITIATION LOOP.

GENERAL NOTES

- POWER**
- EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIME TO WORK.
 - ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
 - CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS.
 - ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT IN FINISHED SPACES SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS UNLESS OTHERWISE INDICATED ON THE PLANS.
 - BRANCH CIRCUITS SHALL NOT EXCEED 75 VOLTAGE DROP.
 - PROVIDE UPDATED TYPED CIRCUIT DIRECTORY WITH UNIQUE CIRCUIT DESCRIPTIONS PER NEC 408.4 FOR PANELS AFFECTED BY THIS PROJECT.
 - WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
 - CIRCUIT NUMBERS AT DEVICES CORRESPOND TO BREAKERS. BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
 - DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT. MAINTAIN EXISTING CIRCUIT INTEGRITY.

- LIGHTING**
- CIRCUIT EXIT AND EMERGENCY LIGHTS TO THE SAME CIRCUIT FEEDING THE LIGHTING IN THE AREA. RUN AN UNSWITCHED HOT CONDUCTOR UPSTREAM OF THE RELAY, POWER PACK, OR SWITCH TO EXIT AND EMERGENCY LIGHT FIXTURES.
 - AREAS SHOWING OCCUPANCY/VACANCY SENSORS IDENTIFY SPACES WHERE THE LIGHTS IN THE SPACE ARE TO BE CONTROLLED BY OCCUPANCY/VACANCY SENSORS AND DO NOT NECESSARILY INDICATE EXACT QUANTITIES AND PLACEMENT. THE CONTRACTOR IS TO COORDINATE WITH THE LOCAL MANUFACTURER'S REPRESENTATIVE FOR EXACT LOCATIONS AND QUANTITIES FOR A 40% MINIMUM COVERAGE OF THE SPACE. PROVIDE APPROPRIATE TIES TO MATCH CEILING HEIGHT APPLICATION. PROVIDE RELAYS, POWER PACKS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. INSTALL ALL SENSORS AT A MINIMUM OF 5 FEET FROM DIFFUSERS. ALL OCCUPANCY SENSORS SHALL BE DUAL-TECHNOLOGY.
 - LIGHTING CALLOUTS ARE TYPICAL FOR OTHER LIGHTS IN THE ROOM OF THE SAME LUMINAIRE SYMBOL, UNLESS INDICATED OTHERWISE.
 - EMERGENCY EGRESS LIGHTS SHALL BE WIRED SUCH THAT WHEN COMMERCIAL POWER FAILS, EACH LIGHT WILL DELIVER A MINIMUM OF 1400 LUMENS OR ITS MAXIMUM LUMEN OUTPUT REGARDLESS OF THE POSITION OF THE CONTROL DEVICE. RUN AN UNSWITCHED HOT CONDUCTOR AHEAD OF THE SWITCHING DEVICE TO THE BATTERY PACK/GENERATOR TRANSFER DEVICE FROM THE SAME CIRCUIT AS NORMAL FIXTURE OPERATION. LIGHTS TO BE SWITCHED AS SHOWN DURING NORMAL OPERATION.
 - PROVIDE DIMMING WIRING FOR SPACES WHERE DIMMERS ARE SHOWN TO CONTROL LIGHTING FOR THAT SPACE.

- FIRE ALARM**
- CONTRACTOR TO MAKE PROVISIONS TO MEET THE INTELIGIBILITY REQUIREMENTS OF NFPA 72 AND TEST AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - PROVIDE A COMPLETE CODE COMPLIANT FIRE ALARM SYSTEM APPROVED BY THE AUTHORITY HAVING JURISDICTION. DEVICES SHOWN INDICATE DESIGN INTENT FOR THE SPACE. CONTRACTOR IS RESPONSIBLE FOR A CODE COMPLIANT SYSTEM FOR THE SPACE WHETHER OR NOT EXACT QUANTITY OF DEVICES ARE SHOWN OR NOT.
 - THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
 - INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
 - POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
 - POWER LIMITED AND NONPOWER LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER LIMITED AND NONPOWER LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS. WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY. WHEN UTILIZING SHIELDED CABLE THE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION. BOLL INSULATE AND TIE BACK AT EDO.
 - ALL FIRE ALARM CABLEING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSES.
 - SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
 - LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILING. CEILING-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILINGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
 - PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
 - VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
 - UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
 - PROVIDE FIRE ALARM DEVICES COMPATIBLE WITH EXISTING FIRE ALARM CONTROL PANEL.

Per NEC 406.12(4) all 15 & 20amp 125 thru 250 volt non locking receptacles shall be the listed tamper resistant type.

Provide GFCI protection for required outlets per requirements of NEC 210.8B. GFCI's shall be installed in a readily accessible location.

Provide required fire stopping for any wiring passing thru a fire rated walls, ceilings, hollow spaces or vertical shafts per NEC 300.21

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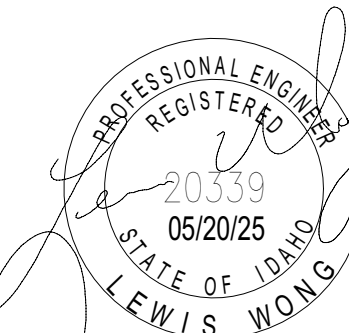
101 W. Cataldo Ave., Suite 205, Spokane, WA 99201
(509) 919-3443 | info@resolutgroup.com
www.resolutgroup.com

Project #: 250146

PM: Nikko Bowers

ISSUE DATE: 05.20.2025

REV DATE COMMENT



LEVEL 1 ELECTRICAL PLANS

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: 240128

E1-01

These plans are approved contingent on the compliance with the mark-ups and notes applied.

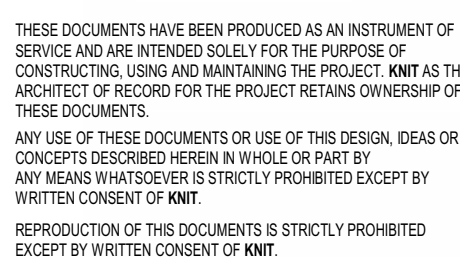
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**DIVISION OF OCCUPATIONAL &
PROFESSIONAL LICENSES**

$$1/4'' = 1'-0''$$

1 THE DESIGN INTENT IS TO REPLACE THE CEILINGS WITHOUT MODIFICATIONS TO THE SPRINKLER LAYOUT. CONTRACTOR SHALL FIELD SURVEY THE EXISTING SPRINKLER SYSTEM TO DETERMINE FEASIBILITY OF LEAVING THE EXISTING SPRINKLERS. IF EXISTING SPRINKLERS CANNOT REMAIN IN THE NEW CEILING AND WITH THE NEW WALL LAYOUT, PROVIDE NEW SPRINKLERS WITH A MATCHING RTI AND FINISH.

The installation/removal of walls may affect the fire sprinkler and/or fire alarm performance. Necessary modifications of these systems will require submission of plans to the State Fire Marshal Office for review.



Project #: 25014

ISSUE DATE: 05.20.2025

REV	DATE	COMMENT
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LEVEL 1 FIRE PROTECTION DEMO PLAN

LCSC MLT & PA LAB

Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

TITLE

PROJECT

CLIENT

JOB NO: **240128**

FD1-01

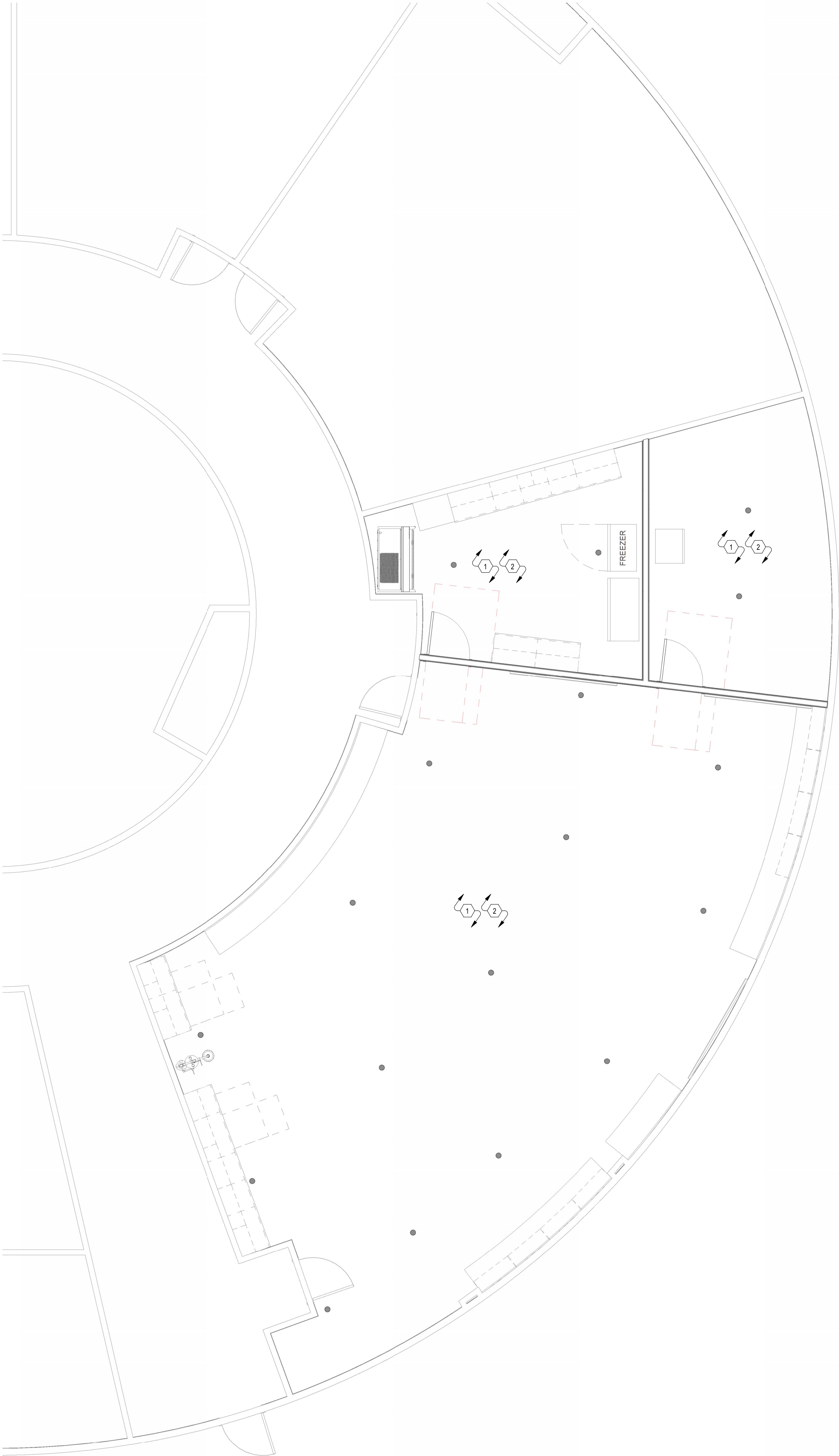
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A#: 1623597
Date: 6/6/2025

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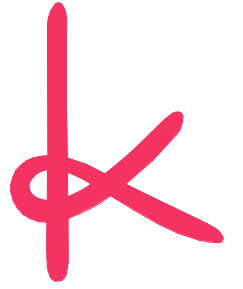


KEYNOTES

1 THE DESIGN INTENT IS TO REPLACE THE CEILINGS WITHOUT MODIFICATIONS TO THE SPRINKLER LAYOUT. CONTRACTOR SHALL FIELD SURVEY THE EXISTING SPRINKLER SYSTEM TO DETERMINE FEASIBILITY OF LEAVING THE EXISTING SPRINKLERS. IF EXISTING SPRINKLERS CANNOT REMAIN IN THE NEW CEILING AND WITH THE NEW WALL LAYOUT, PROVIDE NEW SPRINKLERS WITH A MATCHING RTI AND FINISH.

2 FIRE SPRINKLERS SHALL BE INSTALLED TO MEET NFPA 13-2019, TYPICAL.

The installation/removal of walls may affect the fire sprinkler and/or fire alarm performance. Necessary modifications of these systems will require submission of plans to the State Fire Marshal Office for review.

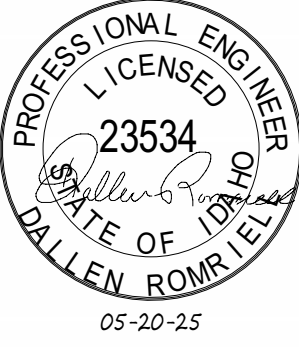

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(509) 326-3433 | info@resolutgroup.com
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LEVEL 1 FIRE PROTECTION PLAN

LCSC MLT & PA LAB
Sam Glenn Complex 500 4th St Lewiston, ID 83501

Lewis Clark State College

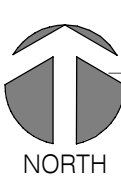
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F1-01



LEVEL 1 FIRE PROTECTION PLAN
1/4" = 1'-0"