

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.

being undertaken.

Sprinkler Note inspection.

LCSC MLT LAB TECH RENOVATION LEWIS-CLARK STATE COLLEGE | SAM GLENN COMPLEX 500 4TH ST

PROJECT TEAM





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

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

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

PROJECT NARRATIVE

DESCRIPTION

THERE ARE NO BUILDING ENVELOPE CHANGES.

APPROXIMATELY 2,040 SF REMODEL OF EXISTING CLASSROOMS LOCATED AT LEWIS CLARK STATE COLLEGE IN TH 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.

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



4







Appender Alysis	- FOR REFERENCE ONLY
State of Idano	
PA#: 1623597 Date: 6/6/2025 BUILDING CODE: EXISTING BUILDING CODE: ELECTRICAL CODE: These plans are applied with the mark-ups on the compliance with the mark-ups in the compliance with the mark-ups and notes applied by the mark-ups This approval shall be applied by the provided by the provide	2018 IBC 2018 IEBC 2017 NEC 2018 IMC 2018 IMC 2015 UPC 2018 IFC 2018 IECC 2009 A-117.1
laws or rules applicable to this project.	GROUP B
DIVISION OF TECHESTIONANS	NONE REQUIRED
PROFESSIONAL ALCENSESENTS	NONE
JOPL <u>TYPE OF CONSTRUCTION</u>	TYPE III B
SEISMIC CLASS:	CLASS D
AUTOMATIC SPRINKLER SYSTEM	I YES
FIRE ALARM	YES
FIRE RESISTANCE REQUIREMENT	TS 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.

Amendments.

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 01 GENERAL

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 G0-01

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 G0-20

02 LIFE SAFETY LS1-10 AE2-10

05 ARCHITECTL AD2-10 05 ARCHITECTU A2-10 A2-40 A2-41 A3-30 A10-20 A10-20 A10-30 A11-10 A12-10

07 MECHANICA M0-01 M0-02 M0-03 M0-04 MD1-01 M1-01

08 PLUMBING PD1-01 P1-01

09 ELECTRICAL EG0-01 EG0-02 EG5-01 EG5-02 EG6-01 EG7-01 ED1-01 11 FIRE FD1-01

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State of Idaho DIVISION 02 - EXISTING CONDITIONS DOPL

SECTION 020342 REMOVAL AND SALVAGE OF PERIOD CONSTRUCTION MATERIALS PA#: 1623597 PART 1 GENERAL

Date: 6/6/2025 1.01 SUBMITTALS

DOPL

- These plans are. a Work Plan: Betuiled prantosed instructions for each type of operation of procedures for accomplishmenco deconstruction work, including detailed on the compliance description of the methods and equipment to be used and sequence of operations.
- and notes applied1. Extent of deconstruction, removal sequences, temporary and permanent This approval shall not best control measures of De an approval of any violation of or one artan and is urbed.
- from, Idaho's adopted code sequencing and simely disconnection and reconnection of utility laws or rules applicable to this project.

PART 2 PRODUCTS (NOT USED) PART 3 EXECUTION

DIVISION OF OCOPATIONAL GENERAL ROFESSIONAL LICENSE

A. Drawings indicating existing construction, **b**uilding services, and site utilities are based on casual field observation and existing record documents only. 3.03 ITEMS TO BE SALVAGED

- A. General: Salvage elements and components to the maximum extent possible. Maintain a chain of custody of salvaged materials, including the condition of such materials before and after salvage operations.
- 3.04 MATERIALS TO BE REMOVED
- A. Remove existing nonhistoric elements as indicated and as required to allow direct access to period construction elements indicated to be restored or salvaged for reuse

B. Protect existing historic elements. 3.05 MATERIALS TO BE RECYCLED

- A. Recycle removed nonhistoric materials to the maximum extent possible. Remove recyclable materials by hand wherever possible.
- B. Recycle items indicated on drawings.

SECTION 024100 DEMOLITION

PART 3 EXECUTION 1.01 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - Obtain required permits. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential
- collapse of unstable structures.
- 3. Provide, erect, and maintain temporary barriers and security devices.

1.02 DEBRIS AND WASTE REMOVAL A. Remove debris, junk, and trash from site.

END OF SECTION

DIVISION 08 - OPENINGS

SECTION 081213 HOLLOW METAL FRAMES

PART 1 GENERAL 1.01 SUBMITTALS

- A. Product Data: Materials and details of design and construction, hardware locations,
- reinforcement type and locations, anchorage and fastening methods, and finishes. B. Shop Drawings: Details of each opening, showing elevations, glazing, frame
- profiles, and identifying location of different finishes, if any C. Samples: Submit one sample of frame metal, 2 by 2 inches (50 by 50 mm),
- showing factory finishes, colors, and surface textures.
- 1.02 DELIVERY, STORAGE, AND HANDLING

A. Store in accordance with applicable requirements and in compliance with standards and/or custom guidelines as indicated. PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Door Frame Type: Provide hollow metal door frames with applied casings. B. Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each. C. Accessibility: Comply with ICC A117.1 and ADA Standards.
- D. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior frame that is also indicated as being soundrated must comply with the requirements specified for exterior frames and for sound-rated frames; where two requirements conflict, comply with the most stringent.
- E. Hardware Preparations, Selections and Locations: Comply with BHMA A156.115, NAAMM HMMA 830, NAAMM HMMA 831 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
- F. Zinc Coating for Interior locations, where indicate: Provide metal components zinciron alloy-coated (galvannealed) by the hot-dip process in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness, unless noted otherwise for specific frames.
- 1. Based on SDI Standards: Provide at least A40/ZF120 (galvannealed) for interior applications exposed to moisture, dampness or water. Coating not required for typical interior door applications. Provide at least A60/ZF180 (galvannealed) for any corrosive locations.
- G. Transom Bars: Fixed, of profile same as jamb and head.
- H. Frames for Interior Glazing or Borrowed Lites: Construction and face dimensions to match door frames, and as indicated on drawings. I. Frames Wider than 48 Inches (1219 mm): Reinforce with steel channel fitted tightly into head of frame, and flush with top.

2.02 HOLLOW METAL DOOR FRAMES WITH APPLIED CASINGS A. Frame Type: Knockdown, slip-on drywall frames; separate jambs and head with

- separate snap-on casings both sides; factory-applied finish on exposed surfaces. 1. Frame Material: Cold-rolled steel complying with ASTM A1008/A1008M. 2. Casing Material: Formed steel.
- 3. Casing Profile: Square corner.
- 4. Finish: Factory-applied baked enamel finish, or electrostatically applied waterbased paint
- B. Interior Door Frames, Non-Fire-Rated: 1. Frame Metal Thickness: 16 gauge, 0.053 inch (1.3 mm), minimum.
- C. Interior Door Frames, Fire-Rated: Provide smoke gaskets . Frame Metal Thickness: 16 gauge, 0.053 inch (1.3 mm), minimum
- 2. Fire Rating: As indicated on Door and Frame Schedule, tested in accordance with UL 10C or NFPA 252 ("positive pressure fire tests"). a. Provide units listed and labeled by testing agency acceptable to authorities having jurisdiction, ITS (DIR), or UL (DIR). b. Attach fire rating label to each fire rated unit.
- 2.03 ACCESSORIES

A. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions

- PART 3 EXECUTION 3.01 INSTALLATION
- A. Install frames in accordance with manufacturer's instructions and related requirements of specified frame standards or custom guidelines indicated.
- B. Install fire rated units in accordance with NFPA 80.
- C. Coordinate frame anchor placement with wall construction. **END OF SECTION**

SECTION 081416 FLUSH WOOD DOORS

PART 1 GENERAL 1.01 SUBMITTALS

- A. Shop Drawings: Show doors and frames, elevations, sizes, types, swings,
- undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.
- B. Samples: Submit two samples of door veneer illustrating door facings.
- 1.02 QUALITY ASSURANCE 1.03 WARRANTY
- A. Manufacturer Warranty: Provide manufacturer's warranty on interior doors for the life of the installation. Complete forms in Owner's name and register with manufacturer.
- 1. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction. PART 2 PRODUCTS
- 2.01 DOORS AND PANELS
- A. Doors: See drawings for locations and additional requirements. 1. Quality Standard: Custom Grade, Heavy Duty performance, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted
- otherwise. 2. High Pressure Decorative Laminate (HPDL) Faced Doors: 5-ply unless otherwise indicated.

- B. Interior Doors: 1-3/4 inches (44 mm) thick unless other construction. Provide solid core doors at each location.
- Fire Rated Doors: Tested to ratings indicated on UL 10C - Positive Pressure: Underwriters Laborat
- Intertek/Warnock Hersey (WHI) labeled. High pressure decorative laminate (HPDL) finish
- 2.02 DOOR AND PANEL CORES A. Non-Rated Solid Core and 20 Minute Rated Doors: Ty
- (SLC), plies and faces as indicated. B. Fire-Rated Doors: Mineral core type, with fire resistant and faces as indicated above; with core blocking as req anchorage of hardware without through-bolting.
- 2.03 DOOR FACINGS
- A. High Pressure Decorative Laminate (HPDL) Facing for VGS; color(s) as indicated; satin finish. High Pressure Decorative Laminate (HPDL) Facing for
- NEMA LD 3, VGS; color(s) as indicated; satin finish. 2.04 DOOR CONSTRUCTION
- A. Fabricate doors in accordance with door quality standa B. Factory machine doors for hardware other than surface
- accordance with hardware requirements and dimensior C. Factory fit doors for frame opening dimensions identifie
- edge clearances in accordance with specified quality sta 2.05 FINISHES - WOOD VENEER DOORS
- A. Finish work in accordance with AWI/AWMAC/WI (AWS Section 5 - Finishing for grade specified and as follows
- 2.06 ACCESSORIES A. Door Window Frames: Door window frames with glazir
- door opening. 1. Frame Material: 18 gauge, 0.0478 inch (1.21 mm), B. Glazing Stops: Wood, of same species as door facing, butted corners; prepared for
- countersink style tamper proof screws. PART 3 EXECUTION
- 3.01 INSTALLATION
- A. Install doors in accordance with manufacturer's instructions and specified quality standard Install fire-rated doors in accordance with NFPA 80 requirements.
- B. Coordinate installation of doors with installation of frames and hardware. END OF SECTION

DIVISION 09 - FINISHES

SECTION 092116 GYPSUM BOARD ASSEMBLIES

- PART 1 GENERAL
- 1.01 SUBMITTALS
- A. Product Data: Provide manufacturer's data on partition head to structure connectors.
- showing compliance with requirements. PART 2 PRODUCTS
- 2.01 GYPSUM BOARD ASSEMBLIES
- A. Provide completed assemblies complying with ASTM C840 and GA-216.
- 2.02 METAL FRAMING MATERIALS A. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in
- AISI S220 or equivalent. B. Nonstructural Framing System Components: AISI S220; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated,
- with maximum deflection of wall framing of L/120 at 5 psf (L/120 at 240 Pa). 1. Studs: C-shaped with knurled or embossed faces.
- Runners: U shaped, sized to match studs. Furring Members: Hat-shaped sections, minimum depth of 7/8 inch (22 mm).
- Furring Members: U-shaped sections, minimum depth of 3/4 inch (19 mm).
- Furring Members: Zee-shaped sections, minimum depth of 1 inch (25 mm). Resilient Furring Channels: Single or double leg configuration; 1/2 inch (13 mm) channel depth.
- Resilient Sound Isolation Clips: Steel resilient clips with molded rubber isolators, attaches to framing; improves noise isolation performance of wall
- and floor-ceiling assemblies C. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection and prevent rotation of studs while maintaining
- structural performance of partition. 1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100. 2.03 BOARD MATERIALS

substituted for paper-faced board.

substituted for paper-faced board.

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

substituted for paper-faced board.

substituted for paper-faced board.

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

panel as defined in ASTM C1178/C1178M.

board, UL or WH listed.

board, UL or WH listed.

ASTM C11///C11//M.

board, UL or WH listed.

Edges: Tapered.

. Edges: Square.

thickness as required for STC.

zinc, unless noted otherwise.

manufacturer for project conditions.

2.04 GYPSUM BOARD ACCESSORIES

Level 5 finish.

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

Type C Thickness: 5/8 inch (19 mm).

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

Core Type: Regular and Type X, as indicated.

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

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

not use solvent-based non-curing butyl sealant.

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

surrounds and shower ceilings.

5. Thickness:

the building is enclosed and conditioned.

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

board, UL or WH listed.

5. Thickness:

rwise indicated; flush	self-piercing tapping scre
drawings in accordance with	G. Screws for Fastening of 0.112 inch (0.84 to 2.84 corrosion-resistant.
tories Inc (UL) or	H. Adhesive for Attachment
as indicated on drawings	PART 3 EXECUTION
	3.01 SHAFT WALL INSTALLATI
vpe staved lumber core	 A. Shaft Wall Framing: Ins instructions.
t composite core (FD), plies	 B. Shaft Wall Liner: Cut pa between special friction
	3.02 FRAMING INSTALLATION
Fire Doors: NEMA LD 3	 A. Metal Framing: Install in manufacturer's instruction
	3.03 ACOUSTIC ACCESSORIES
Non-Fire-Rated Doors:	 A. Acoustic Insulation: Plan around electrical and me through partitions.
ard specified	3.04 BOARD INSTALLATION
e-mounted hardware, in ns.	 A. Comply with ASTM C84 minimize butt end joints,
ed on shop drawings, with tandard.	 B. Fire-Resistance-Rated C requirements of assemb
	C. Exterior Sheathing: Con edges butted tight and e
S) OF AVVIVIAC/VVI (NAAVVS),	3.05 JOINT TREATMENT
na coouroly factored within	 A. Glass Mat Faced Gypsu fiberglass joint tape, eml
ng securery rastened within	 B. Paper Faced Gypsum B compound and finish wit
n, guivanizou stool.	

A. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.

2. Glass mat faced gypsum panels, as defined in ASTM C1658/C1658M, suitable for paint finish, of the same core type and thickness may be 3. Unfaced fiber-reinforced gypsum panels as defined in ASTM C1278/C1278M, suitable for paint finish, of the same core type and thickness may be

4. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X

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

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

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

3. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. a. Mold-resistant board is required whenever board is being installed before

b. Mold resistant board is required areas subject to moisture such as restrooms, bathrooms, kitchens, laundry, or janitorial spaces. 4. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X

Backing Board For Wet Areas: One of the following products: Application: Surfaces behind tile in wet areas, including tub and shower

Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. Glass Mat Faced Board: Coated glass mat water-resistant gypsum backing

D. 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

Application: Vertical surfaces behind thinset tile, except in wet areas. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. 3. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X

Exterior Sheathing Board: Sizes to minimize joints in place; ends square cut. Application: Exterior sheathing, unless otherwise indicated. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273. Glass Mat Faced Sheathing: Glass mat faced gypsum substrate as defined in

4. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X

A. Acoustic Insulation: ASTM C665; preformed mineral-fiber, friction fit type, unfaced;

B. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do

C. Beads, Joint Accessories, and Other Trim: ASTM C1047, galvanized steel or rolled

D. Joint Materials: ASTM C475/C475M and as recommended by gypsum board

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

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:

ews, corrosion-resistant.

G	 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.
F	 Adhesive for Attachment to Wood, ASTM C557 and Metal:
PART	3 EXECUTION
3.01 \$	SHAFT WALL INSTALLATION
A	 Shaft Wall Framing: Install in accordance with manufacturer's installation instructions.
B	 Shaft Wall Liner: Cut panels to accurate dimensions and install sequentially between special friction studs.

accordance with ASTM C1007AISI S220 and

INSTALLATION

ce tightly within spaces, around cut openings, behind and chanical items within partitions, and tight to items passing

- 0, GA-216, and manufacturer's instructions. Install to especially in highly visible locations.
- Construction: Install gypsum board in strict compliance with lv listina. mply with ASTM C1280. Install sheathing vertically, with
- nds occurring over firm bearing.
- Im Board and Exterior Glass Mat Faced Sheathing: Use bed and finish with setting type joint compound.
- pard: Use paper joint tape, embed with drying type joint th drying type joint compound. C. 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
- 5. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.
- 3.06 TEXTURE FINISH A. Apply finish texture coating by means of spraying apparatus in accordance with manufacturer's instructions.

SECTION 095100 ACOUSTICAL CEILINGS

END OF SECTION

PART 1 GENERAL 1.01 SUBMITTALS

- A. Product Data: Provide data on suspension system components and acoustical units B. Samples: Submit two samples illustrating material and finish of acoustical units.
- PART 2 PRODUCTS
- 2.01 PERFORMANCE REQUIREMENTS
- A. Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category D, E, or F and complying with the following: 1. Local authorities having jurisdiction.

2.02 ACOUSTICAL UNITS

- A. Acoustical Panels: Painted mineral fiber, with the following characteristics: 1. Classification: ASTM E1264 Type III. a. Form: 2, water felted.
- Size: 24 by 48 inches (610 by 1219 mm). Thickness: 3/4 inch (19 mm).
- Light Reflectance: 79 percent, determined in accordance with ASTM E1264. 5. Ceiling Attenuation Class (CAC): 35, determined in accordance with ASTM F1264
- 6. Panel Edge: Square.
- 7. Color: White. 8. Suspension System: Exposed grid.
- 2.03 SUSPENSION SYSTEM(S)

A. 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. 1. Materials

- a. Steel Grid: ASTM A653/A653M, G30 coating, unless otherwise indicated. B. Exposed Suspension System: Hot-dipped galvanized steel grid with steel cap. Structural Classification: Heavy-duty, when tested in accordance with ASTM C635/C635M.
- Finish: Baked enamel. Color: White.

2.04 ACCESSORIES

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified. B. Hanger Wire: 12 gauge, 0.08 inch (2 mm) galvanized steel wire.
- C. Perimeter Moldings: Same metal and finish as grid.
- 1. Size: As required for installation conditions and specified Seismic Design Category

PART 3 EXECUTION 3.01 PREPARATION

- A. Install after major above-ceiling work is complete.
- B. Coordinate the location of hangers with other work
- 3.02 HANGER WIRE SUPPORT REQUIREMENTS
- A. Structural Attachment Requirements 1. Hanger wires shall be securely fastened to the building's primary structure, including steel beams, concrete slabs, or structural joists. Attachment to roof deck, metal decking, or non-structural framing is prohibited.
- B. Supplemental Structural Support 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. Spanned 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.
- Hanger Wire Installation a. Hanger wires shall be 12-gauge galvanized wire (or stronger where
- required) and installed plumb within 1 in 6 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 splay wires where required.
- 3.03 INSTALLATION SUSPENSION SYSTEM A. Install suspension system in accordance with ASTM C636/C636M, ASTM
- E580/E580M, and manufacturer's instructions and as supplemented in this section B. 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
- A. Install acoustical units in accordance with manufacturer's instructions.
- B. 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

- A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- B. Shop Drawings: Indicate seaming plans.
- C. Verification Samples: Submit two samples, illustrating color and pattern for each resilient flooring product specified. D. Sustainable Design Submittal: Submit VOC content documentation for flooring and adhesives.
- PART 2 PRODUCTS 2.01 TILE FLOORING
- A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness. 1. Minimum Requirements: Comply with ASTM F1066, of Class corresponding
- to type specified. 2. Critical Radiant Flux (CRF): Minimum 0.22 watt per square centimeter, when
- tested in accordance with ASTM E648 or NFPA 253. 3. Thickness: 0.125 inch (3.2 mm).

- B. Vinyl Tile: Solid vinyl with color and pattern throughout thick 1. Minimum Requirements: Comply with ASTM F1700, or to type specified.
- 2. Critical Radiant Flux (CRF): Minimum 0.22 watt per sq tested in accordance with ASTM E648 or NFPA 253. 3. Total Thickness: 0.125 inch (3 mm).
- 2.02 RESILIENT BASE

3.01 INSTALLATION - GENERAL

PART 1 GENERAL

1.01 SECTION INCLUDES

PART 2 PRODUCTS

2.01 MANUFACTURERS

2.02 PAINTS AND FINISHES - GENERAL

1.02 SUBMITTALS

3.02 INSTALLATION - TILE FLOORING

3.03 INSTALLATION - RESILIENT BASE

handled and to permit passage through building openings.

assembled, and factory-finished.

2. Steel Sheet Metal:

1. Style: Flush overlay - square edge.

gauge, 0.0478 inch (1.21 mm) minimum thickness.

2.03 PAINT SYSTEMS - INTERIOR

2.04 PRIMERS

PART 3 EXECUTION

3.01 EXAMINATION

3.02 PREPARATION

3.03 APPLICATION

PART 2 PRODUCTS

1.01 FABRICATION

2.03 ACCESSORIES

PART 3 EXECUTION

B 2 R A 3 A B C D RT : 1 II	 Vinyl Tile: Solid vinyl with color and pattern throughout thickness. Minimum Requirements: Comply with ASTM F1700, of Class corresponding to type specified. Critical Radiant Flux (CRF): Minimum 0.22 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253. Total Thickness: 0.125 inch (3 mm). Resilient Base: ASTM F1861, Type TS, rubber, vulcanized thermoset; style as scheduled. Critical Radiant Flux (CRF): Minimum 0.22 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253. Height: 4 inches (100 mm). Thickness: 0.125 inch (3.2 mm). Finish: Satin. Accessories: Premolded external corners, internal corners, and end stops. CCESSORIES Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer. Moldings, Transition and Edge Strips: Same material as flooring. Sealer and Wax: Types recommended by flooring manufacturer. 	 Drawers, Cabinet Floors, Shelves, Filler Panels and Drawer Dividers: 20 gauge, 0.0359 inch (0.91 mm) minimum thickness. Backing Sheet to Door and Door Fronts: 22 gauge, 0.0299 inch (0.76 mm) minimum thickness. Structural Performance: Provide components that safely support the following minimum loads, without deformation or damage: Base Units: 500 pounds per linear foot (744 kg/linear m) across the cabinet ends. Corners and Joints: Without gaps or inaccessible spaces or areas where dirt or moisture could accumulate. Edges and Seams: Smooth. Form counter tops, shelves, and drain boards from continuous sheets. Shelf Edges: Turned down 3/4 inch (19 mm) on each side and returned 3/4 inch (19 mm) front and back. Ends: Close open ends with matching construction. Welding: Electric spot welded; joints ground smooth and flush. Drawers and Doors: Fabricate drawer and door fronts of sandwiched sheets of sheet steel welded together and reinforced for hardware. Manufacturer's standard types, styles and finishes. Comply with BHMA A156.9 requirements. General: Manufacturer's standard materials for units specified, unless otherwise indicated.
B	Install in accordance with manufacturer's written instructions.	SECTION 123553.19 WOOD LABORATORY CASEWORK
D	 Adhesive-Applied installation. Spread only enough adhesive to permit installation of materials before initial set. Fit joints and butt seams tightly. Set flooring in place, press with heavy roller to attain full adhesion. Loose-Laid Installation: Set flooring in place in accordance with manufacturer's 	 PART 2 PRODUCTS 1.01 WOOD LABORATORY CASEWORK A. Wood Laboratory Casework: Solid wood and wood panel construction; each unit self-contained and not dependent on adjacent units or building structure for rigidity; in sizes necessary to avoid field cutting except for scribes and filler panels. Include
2 11	instructions. NSTALLATION - TILE FLOORING	adjustable levelers for base cabinets. 1. Style: Flush overlay. Ease doors and drawer fronts slightly at edges. 2. Cabinet Nominal Dimensions: Unless otherwise indicated, provide cabinets of
A 3 II A	 Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions. NSTALLATION - RESILIENT BASE Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 	widths and heights indicated on drawings, and with following front-to-back dimensions: a. Base Cabinets: 22 inches (559 mm). b. Tall Cabinets: 22 inches (559 mm).
	mm) between joints. END OF SECTION	 Construction: Joints doweled, glued and screwed, except drawers may be lock-shoulder jointed; with interior of units smooth and flush; cabinet bottom
	SECTION 099123	 flush with top of face frame; without gaps or inaccessible spaces or areas where dirt or moisture could accumulate. Structural Performance: In addition to the requirements of SEFA 3. SEFA 7.
RT [·]	INTERIOR PAINTING 1 GENERAL	 and SEFA 8W, components safely support the following minimum loads: 5. Factory-finish all exposed and semi-exposed surfaces with the same finish.
1 S A	SECTION INCLUDES . Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated	 a. Finish Performance: Provide finish on all surfaces having chemical resistance of Level 0 (no change) or Level 1 (slight change of gloss or slight discoloration) according to SEFA 8W and no visible effect when
	 Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment. 	 surface is exposed to: Hot water at temperature between 190 degrees F (88 degrees C) and 205 degrees F (96 degrees C) trickled down the test surface at
Б	 Elevator pit ladders. Prime surfaces to receive wall coverings. Do Not Point or Einich the Following Items: 	 45 degree angle for 5 minutes. 2) Constant moisture in the form of 2 by 3 by 1 inch (51 by 76 by 25
в	 Do Not Paint or Finish the Following items: 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished. 	mm) thick cellulose sponge kept continually saturated with water and in contact with test surface for 100 hours. b. Coating: Clear. superior-guality, chemical-resistant acyclic urethane:
	 Items indicated to receive other finishes. Items indicated to remain unfinished. Eiro rating labels, equipment social number and conseity labels, her code 	applied in accordance with manufacturer instructions, force-dried, sanded and wiped clean.
	 Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment. Floors, unless specifically indicated. 	 c. Coats: Multiple coats as required to achieve minimum 1.5 mil (0.038 mm) dry film thickness. d. Appearance: Clear satin gloss; not cloudy or muddy.
	 Glass. Concealed pipes, ducts, and conduits. 	1.02 COUNTERTOPS A. Countertops: See Section 123600.
2 S A	UBMITTALS . Product Data: Provide complete list of products to be used, with the following	 B. Countertops: 1. Types: More than one type is required, as specified below. See drawings for
	 Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel"). 	 location of each type of countertop. Epoxy Resin Countertops: Filled epoxy resin molded into homogenous, non- porcus sheets: no surface coating and color and pattern consistent throughout
	 MPI product number (e.g., MPI #47). Cross-reference to specified paint system products to be used in project; 	thickness; with integral or adhesively seamed components. a. Flat Surface Thickness: 1 inch (25 mm), nominal.
в	. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by	 b. Surface Finish: Smooth, non-glare. c. Color: Black. d. Back.
	specified. 1. Where sheen is specified, submit samples in only that sheen.	 d. Back and End Splasnes: Same material, same thickness; separate for field attachment. e. Fabricate in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI
RT: 1 N	2 PRODUCTS MANUFACTURERS	(NAAWS), Section 11 - Countertops, Premium Grade.f. Fabricate in accordance with manufacturer's standard requirements.
A	 Provide paints and finishes from the same manufacturer to the greatest extent possible. 	END OF SECTION
2 P A	AINTS AND FINISHES - GENERAL Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.	
	 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. 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. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience. 	
	 Supply each paint material in quantity required to complete entire project's work from a single production run. 	
	 Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions. When required mix coatings to correct consistency in accordance with 	
В	manufacturer's instructions before application.	
3 P ⊿	PAINT SYSTEMS - INTERIOR . 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.	
	 i wo top coats and one coat primer. Top Coat(s): Interior Latex; MPI #43, 44, 52, 53, 54, or 114. Primer: As recommended by top coat manufacturer for specific substrate 	
4 P ♪	PRIMERS	
~	 manufacturer of top coats. Alkali Resistant Water Based Primer; MPI #3. 	
	 Interior Latex Primer Sealer; MPI #50. Interior Water Based Primer for Galvanized Metal; MPI #134 or #134 X-Green. Bonding Primer, Water Based: MPI #17 	
RT :	3 EXECUTION	
A	. 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.	
	 ∠. 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 	
2 P ^	REPARATION	
В	 Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. 	
3 A A	APPLICATION . Apply primer to all surfaces unless specifically not required by coating	
В	manufacturer. Apply in accordance with coating manufacturer's instructions. Primers specified in painting schedules may be omitted on items that are factory	
С	primed or factory finished if acceptable to top coat manufacturers. Apply products in accordance with manufacturer's written instructions and	
D	 recommendations in "MPI Architectural Painting Specification Manual". Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before part coat is applied. 	
E	 Apply coatings at spread rate required to achieve manufacturer's recommended dry film thickness. 	
	END OF SECTION	
	DIVISION 12 - FURNISHINGS	
	MANUFACTURED METAL CASEWORK	

A. Assembly: Shop assemble casework items for delivery to site in units easily

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

a. Gables, Front and Back Panels, Gusset Plates, Aprons, and Rails: 18









ACCESSIBLE FIXTURES AND MOUNTING HEIGHTS

ABBREVIATIONS

JT.

R

SQ.

W/

WP.

WT.

WAINSCOT

WEIGHT

POUND OR NUMBER I.D. AND INSUL INT. AT @ A.B. ANCHOR BOLT JAN. ASPHALT CONCRETE A.C. K.O. A.D. AREA DRAIN ABOVE FINISH FLOOR A.F.F. KIT. A.F.G. ABOVE FINISH GRADE L.F. L.K.R. LAB. LAM. A.F.S. ABOVE FLOOR SLAB A.V. AUDIO/VISUAL ABV. ABOVE ACOUST ACOUSTICAL LAV. ADJ. ADJUSTABLE LT. M.C. AGGR. AGGREGATE ALUMINUM M.O. AL. ANOD. ANODIZED MAX. MECH. APPROX APPROXIMATE ARCH. MEMB. ARCHITECTURAL ASPH. MET. ASPHALT B.C. BACK OF CURB MFR. B.M. **BENCH MARK** MH. BUILT UP ROOF MIN. B.U.R. MIR. BD. BOARD BITUM. BITUMINOUS MISC. MTD. MUL. BLDG. BUILDING BLK. BLOCK BLKG. BLOCKING N. BM. BEAM N.I.C. BOT. N.T.S. BOTTOM BEARING BRG. NO. NOM. BTW. BETWEEN CATCH BASIN O.C. C.B. CONTRACTOR FURNISHED / C.F.C.I. O.D. O.F.C.I. CONTRACTOR INSTALLED C.F.O.I CONTRACTOR FURNISHED / 0.F.O.I. OWNER INSTALLED C.G. CORNER GUARD OA. C.I. CAST IRON OBS. CONSTRUCTION JOINT C.J. C.M.U. CONCRETE MASONRY UNIT OFF. C.O. CLEAN OUT OPNG. OPP. C.R. COLD ROLLED C.T. P.B. CERAMIC TILE CAB. CEM. CEM. PLAST CABINET P.L. CEMENT P.T.D. P.T.D./R CEMENT PLASTER CERAMIC P.T.R. CENTER LINE CER. ΡL PLAM. CL. CEILING CLG. PLUM. CAULKING CLKG. CLEAR PLY. WD. CLR. COUNTER PR. CNTR. PRECST COLUMN COL. CONCRETE PT. PTN. Q.T. CONC. CONNECTION CONN. CONSTRUCTION CONSTR CONTINUOUS CONT. R.D. CORRIDOR CORR. R.O. CARPET CPT. COUNTER R.W.L. RAD. REF. CTR. COUNTERSINK CTSK. DRINKING FOUNTAIN REFR. D.F. DOOR OPENING D.O. DRY STANDPIPE REINF. REQ. D.S.P. DRAWER RESIL. D.W.R. DOUBLE RM. DEMOLITION DBL. DEMO DEPARTMENT RSTR. RWD. DEPT. DETAIL DET. DIAMETER S. SK. DIMENSION DIA. DISPENSER S.C. DIM. DISP. DOWN S.C.E. DN. DOOR S.H. S.N.D. DR. DOWNSPOUT SCHED. DS DRAWING DWG. EAST SD. EXPANSION JOINT SECT. SHR. ELEVATION E.J. SHT. ELECTRIC PANELBOARD E.L. SIM. E.P. SINGLE PLY ROOF E.P.D.M. MEMBRANE SPEC. E.W. EACH WAY E.W.C. SST. ELECTRIC WATER COOLER EA. EACH STA. ELEC. ELECTRICAL STD. EMER. EMERGENCY STL. ENCL. ENCLOSURE STOR. EQ. EQUAL STRL. EQUIP. EQUIPMENT SUSP. EXIST. SYM. EXISTING EXP. T & G EXPANSION EXPO. EXPOSED T.B. EXT. EXTERIOR T.E.R. T.O.C. F.A. FIRE ALARM T.O.P. F.B. FLAT BAR F.D. FLOOR DRAIN T.O.W. F.E. FIRE EXTINGUISHER T.V. F.E.C. FIRE EXTINGUISHER TEL. THK. F.H. CABINET F.H.C. FIRE HYDRANT TRD. F.O.C. FIRE HOSE CABINET TYP. F.O.F. FACE OF CONCRETE U.N.O. F.O.M. FACE OF FINISH UNFIN. F.O.S. FACE OF MASONRY UR. F.S. FACE OF STUDS V.B. FDN. FLOOR SINK V.C.G. V.T. FIN. FOUNDATION FLASH. FINISH VAR. FLR. FLASHING VERT. VEST. FLUOR. FLOOR FPRF. FLUORESCENT W. FT. FIREPROOF W.C. FTG. FOOT OR FEET W/O FURR. FOOTING FUT. WD. FURRING G.B. FUTURE GA. GRAB BAR WSCT. GALV. GAUGE GALVANIZED GL. GL. BLK. GLASS GND. GLASS BLOCK GR. GROUND GYP. GRADE H.B. GYPSUM H.C. HOSE BIB H.M. HOLLOW CORE HDWD. HOLLOW METAL HDWE HARDWOOD HGT. HARDWARE HORIZ. HEIGHT HR. HORIZONTAL

INSIDE DIAMETER INSULATION INTERIOR JANITOR JOINT KNOCK OUT KITCHEN LINEAR FOOT LOCKER LABORATORY LAMINATE LAVATORY LIGHT MEDICINE CABINET MASONRY OPENING MAXIMUM MECHANICAL MEMBRANE METAL MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MOUNTED MULLION NORTH NOT IN CONTRACT NOT TO SCALE NUMBER NOMINAL ON CENTER OUTSIDE DIAMETER (DIM) OWNER FURNISHED / CONTRACTOR INSTALLED OWNER FURNISHED / OWNER INSTALLED OVERALL OBSCURE OFFICE OPENING OPPOSITE PEG BOARD PROPERTY LINE PAPER TOWEL DISPENSER P.T.D. AND RECEPTACLE PAPER TOWEL RECEPTACLE PLATE PLASTIC LAMINATE PLUMBING PLYWOOD PAIR PRE-CAST PAINT PARTITION QUARRY TILE RISER ROOF DRAIN ROUGH OPENING RAIN WATER LEADER RADIUS REFERENCE REFRIGERATOR REINFORCED REQUIRED RESILIENT ROOM REGISTER REDWOOD SERVICE SINK SOUTH SOLID CORE SEAT COVER DISPENSER SHELF SANITARY NAPKIN DISPENSER SCHEDULE SOAP DISPENSER SECTION SHOWER SHEET SIMILAR SPECIFICATION SQUARE STAINLESS STEEL STATION STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL TONGUE AND GROOVE TOWEL BAR TELEPHONE EQUIPMENT ROOM TOP OF CURB TOP OF PAVEMENT TOP OF WALL TELEVISION TELEPHONE THICK TREAD TYPICAL UNLESS NOTED OTHERWISE UNFINISHED URINAL VAPOR BARRIER VINYL CORNER GUARD VINYL TILE VARIES VERTICAL VESTIBULE WEST WATER CLOSET WITH WITHOUT WOOD WATERPROOF



DATUM POINT DOOR NUMBER WINDOW TAG ROOM NUMBER WALL TAG ACCESSORY/ EQUIPMENT TAG KEYNOTE TILTUP TAG NORTH ARROW PITCH CEILING TAG FLOORING TAG ELEVATION TAG 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

DEFINITIONS

HOUR

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 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.



ISSUE DATE: 05.20.2025 REV DATE COMMENT LICENSED ARCHITECT AR-986427 ERIC MATTHEW ROBERTS STATE OF IDAHO 05/21/2025 Ð Ō olle ш \Box \bigcirc S Ð $\overline{}$ State ATION Д Ł $\frac{\Box}{()}$ M INFORN SC Lewis \Box JOB NO: **240128** G0-20

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

SHEET NOTES

 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 (AHJ), AND COORDINATED IN ADVANCE WITH THE OWNER.

SYMBOL LEGEND

SYMBOL		DESCRIPTION
EXIT WIDTH REQUIRED	-OCCUPANT SERVED	EXIT DOOR CAPACITY
EXIT WIDTH PROVIDED	-OCCUPANT CAPACITY	
EXIT WIDTH REQUIRED	-OCCUPANT SERVED	EXIT STAIR CAPACITY
EXIT WIDTH PROVIDED	-OCCUPANT CAPACITY	
TRAVEL DISTANCE: #'-	#"	MEANS OF EGRESS PATH OF TRAVEL
FUNCTION OF SPACE SQAURE FOOTAGE OCCUPANCY OCCUPANCY FACTOR	E DSHOP 499 SF 3 OCC 50 GSF	OCCUPANCY TAG
F.E. SEP. DIST: #'-#"		FIRE EXTINGUISHER SEPARATION DISTANCE

OCCUPANCY USE LEGEND

ACMECH - ACCESSORY STORAGE AREAS, MECHANICAL EQUIPN 300 GSF
EDSHOP - EDUCATIONAL (SHOPS AND OTHER VOCATIONAL ROC 50 NSF

OCCUPANCY CALCULATION

ABBREV	GROSS NET	AREA	OCCUPANT LOAD	# OCCUPANTS
ACCESSORY STOP	RAGE AREAS, MECHANICAL EC	QUIPMENT RO	MOC	
ACMECH	GROSS	235 SF	300	1
EDUCATIONAL (SH	IOPS AND OTHER VOCATIONA	L ROOM)		
EDSHOP	NET	230 SF	50	5
EDSHOP	NET	1426 SF	50	29
			·	35

MICRO/EQUIP	Image: state of the state
LT LAB 125 425 SF	
OCCUPANC 1/4" = 1'-0" GRAPHIC SCALE: 1/4" = 1'-0"	<u>YPLAN - LEVEL 1</u>

PLAN LEGEND

AREA NOT IN SCOPE

SHEET NOTES

- 1. 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.
- PLAN 3. 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
- 4. CENTER ALL FIXTURE AND REGISTERS IN LAY-IN CEILING TILES U.N.O. FIXTURE SHALL BE SUPPORTS INDEPENDENTLY FROM SUSPENDED CEILING
- 5. ALL OSCI (OWNER SUPPLED CONTRACTOR INSTALLED) FIXTURES TO BE COORDINATED WITH CONTRACTOR FOR INSTALLATION REQUIREMENTS AND HEIGHTS PRIOR TO ROUGH IN OF CONNECTIONS
- 6. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CMU WALL OR CNETER LINE OF GRIDS U.N.O. ALL CLEAR DIMENSIONS ARE FROM FACE OF FINISH 7. DO NOT SCALE FROM DRAWINGS
- 8. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY ARCHITECT OF ANY PLAN DISCREPANCIES OR EXISTING AS-BUILT CONDITION CONFLICTING INFORMATION.
- 9. REFER TO ELECTRICAL DRAWINGS FOR ALL LOCATIONS AND REQUIREMENTS OF ELECTRICAL EQUIPMENT, DEVICES, AND INFRASTRUCTURE
- 10. REFER TO SPECIFICATIONS FOR SUBMITTAL OF SAMPLES OF ALL INTERIOR MATERIALS AND/ OR FINISHES
- 11. ALL RECEPTACLES AND SWITCHES TO REMAIN, U.N.O 12. ALL FURNITURE TO BE REMOVED AND COORDINATED BY OWNER, COORDINATE
- STORAGE WITH OWNER. 13. VENTILATE ENCLOSED AREAS TO ASSIST CURE OF MATERIALS, TO DISSIPATE HUMIDITY, AND TO PREVENT ACCUMULATION OF DUST, FUMES, VAPORS, OR GASES.
- 14. KEEP AREAS IN WHICH ALTERATIONS ARE BEING CONDUCTED SEPARATED FROM OTHER AREAS THAT ARE NOT AFFECTED BY ALTERATION WORK.
- 15. PROVIDE, ERECT, AND MAINTAIN TEMPORARY DUSTPROOF PARTITIONS TO SEPARATE AREAS OF ALTERATION FROM THE REMAINING PORTIONS OF THE BUILDING.
- 16. REMOVE EXISTING WORK AS INDICATED AND AS REQUIRED TO ACCOMPLISH NEW WORK.
- 17. REMOVE ROTTED WOOD, CORRODED METALS, AND DETERIORATED MASONRY AND CONCRETE; REPLACE WITH NEW CONSTRUCTION.
- 18. REMOVE ITEMS INDICATED ON DRAWINGS AS TO BE DEMOLISHED.
- 19. RELOCATE ITEMS INDICATED ON DRAWINGS INDICATED TO BE SALAVAGED. 20. 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.
- 21. WHERE NEW SURFACE FINISHES ARE NOT SPECIFIED OR INDICATED, PATCH HOLES AND DAMAGED SURFACES TO MATCH ADJACENT FINISHED SURFACES AS CLOSELY AS POSSIBLE.
- 22. SERVICES (INCLUDING BUT NOT LIMITED TO HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND TELECOMMUNICATIONS): REMOVE, RELOCATE, AND EXTEND EXISTING SYSTEMS TO ACCOMMODATE NEW CONSTRUCTION.
- 23. 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.
- 24. 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
- 25. 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 ADJAC
	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. COORDINATI
	OWNER
D-05	REMOVE (DEMOLISH) EXISTING 2-COMPARTMENT SINK AND ASSOCIATED FILTRATION
	PLUMBING FOR SINKS
D-06	REMOVE (DEMOLISH) ALL FLOORING AND WALLBASE. ABATE AS REQUIRED, REFER TO
	MATERIALS REPORT. PREPARE FOR NEW FLOORING PER FINISH SCHEDULE. CLEAR W.
	MOUNTED CONDUITS AND PIPING WHERE POSSIBLE. PATCH AND REPAIR WALLS, PRE
D-07	REMOVE EXISTING WHITE BOARDS. STORE DURING CONSTRUCTION FOR REINSTALLA
D-08	REMOVE (SALVAGE) EXISTING DOOR AND FRAME AND PREPARE ADJACENT SURFACE
D-09	REMOVE EXISTING SERVER BOX. STORE DURING CONSTRUCTION FOR REINSTALLATIO
D-10	EXISTING WALL TO BE REMOVED, PATCH AND REPAIR ADJACENT WALLS AS REQUIRE
D-11	REMOVE EXISTING AIR TERMINALS. STORE DURING CONSTRUCTION FOR REINSTALLAT
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 DE

DEMO CEILING FIXTURE LEGEND

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

SHEET NOTES

- 1. HEIGHT REFERENCES ARE TAKEN FROM FINISH FLOOR ELEVATIONS. DIMENSIONS ARE
- ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT
- IN OF CONNECTIONS
- GRIDS U.N.O. ALL CLEAR DIMENSIONS ARE FROM FACE OF FINISH
- CONFLICTING INFORMATION.
- ELECTRICAL EQUIPMENT, DEVICES, AND INFRASTRUCTURE
- AND/ OR FINISHES

- WITHOUT BREAKS, STEPS, OR BULKHEADS.
- POSSIBLE.
- FOR THE NEW FINISH.
- WITH A NEAT TRANSITION TO ADJACENT FINISHES.

TO CENTERLINE OF FIXTURES. CEILING TAGS WITHOUT LVL 0 (LEVEL 0) ARE TAKEN FROM LEVEL 1. 2. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FINISH SCHEDULE AND CEILING PLAN 3. MECHANICAL FIXTURES, LIGHT FIXTURES SHOWN ON THIS DRAWING ARE FOR LOCATIONS ONLY. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN MECHANICAL AND ΚΝΙΤ 4. CENTER ALL FIXTURE AND REGISTERS IN LAY-IN CEILING TILES U.N.O. FIXTURE SHALL BE SUPPORTS INDEPENDENTLY FROM SUSPENDED CEILING 5. ALL OSCI (OWNER SUPPLED - CONTRACTOR INSTALLED) FIXTURES TO BE COORDINATED knitstudios.com WITH CONTRACTOR FOR INSTALLATION REQUIREMENTS AND HEIGHTS PRIOR TO ROUGH THESE DOCUMENTS HAVE BEEN PRODUCED AS AN INSTRUMENT OF SERVICE AND ARE INTENDED SOLELY FOR THE PURPOSE OF CONSTRUCTING, USING AND MAINTAINING THE PROJECT. **KNIT** AS THE ARCHITECT OF RECORD FOR THE PROJECT RETAINS OWNERSHIP OF THESE DOCUMENTS. 6. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CMU WALL OR CNETER LINE OF ANY USE OF THESE DOCUMENTS OR USE OF THIS DESIGN, IDEAS OR CONCEPTS DESCRIBED HEREIN IN WHOLE OR PART BY ANY MEANS WHATSOEVER IS STRICTLY PROHIBITED EXCEPT BY WRITTEN CONSENT OF **KNIT**. 7. DO NOT SCALE FROM DRAWINGS REPRODUCTION OF THIS DOCUMENTS IS STRICTLY PROHIBITED EXCEPT BY WRITTEN CONSENT OF **KNIT**. 8. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY © KNIT, 2025 ARCHITECT OF ANY PLAN DISCREPANCIES OR EXISTING AS-BUILT CONDITION 9. REFER TO ELECTRICAL DRAWINGS FOR ALL LOCATIONS AND REQUIREMENTS OF 10. REFER TO SPECIFICATIONS FOR SUBMITTAL OF SAMPLES OF ALL INTERIOR MATERIALS 11. ALL RECEPTACLES AND SWITCHES TO REMAIN, U.N.O 12. ALL FURNITURE TO BE REMOVED BY CONTRACTOR, COORDINATE STORAGE WITH OWNER 13. ADAPT EXISTING WORK TO FIT NEW WORK: MAKE AS NEAT AND SMOOTH TRANSITION AS POSSIBLE. 14. 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. 15. WHERE REMOVAL OF PARTITIONS OR WALLS RESULTS IN ADJACENT SPACES BECOMING ONE, REWORK FLOORS, WALLS, AND CEILINGS TO A SMOOTH PLANE 16. WHERE A CHANGE OF PLANE OF 1/4 INCH (6 MM) OR MORE OCCURS IN EXISTING WORK ISSUE DATE: 05.20.2025 FLOAT EXISTING FINISHED SURFACES TO PROVIDE A NEAT AND SMOOTH TRANSITION AS 17. 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 REV DATE COMMENT 18. REFINISH EXISTING SURFACES AS INDICATED: 19. WHERE ROOMS OR SPACES ARE INDICATED TO BE REFINISHED, REFINISH ALL VISIBLE EXISTING SURFACES TO REMAIN TO THE SPECIFIED CONDITION FOR EACH MATERIAL, 20. IF MECHANICAL OR ELECTRICAL WORK IS EXPOSED ACCIDENTALLY DURING THE WORK, RE-COVER AND REFINISH TO MATCH. KEYNOTES PROVIDE ADEQUATE ER TO PLUMBING LICENSED ARCHITECT AR-986427 RK CONNECTION ERIC MATTHEW ROBERTS STATE OF IDAHO 05/21/2025 CEILING TYPES $\underbrace{50' - 0'}_{50' - 0'} \bullet \underbrace{Ceiling Height (INDICATES Height Above Finished Floor)}_{Ceiling Height (INDICATES Height Above Finished Floor)}$ ACT-1: NEW 2X4 ACT CEILING TILES CEILING FIXTURE LEGEND RCP ollege \propto WALL LEGEND EVEL Ŭ State LAB $\overline{\mathbf{Z}}$ **_** Clark ML \simeq FLOO NON-LOAD BEARING PARTITION SC wis \Box CORE THICKNESS FIRE RATING OR SMOKE -----CORE HEIGHT CORE TYPE JOB NO: **240128** A2-10

-	
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 P 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. REFE 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: CHIEF LTM1U - C.F.C.I
2-10	CAMERA BY OWNER - O.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 NETWOR
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

<u>SYMBOL</u>	CEILING DESCRIPTION	
XXX_#		

<u>SYMBOL</u>	DESCRIPTION
	RECESSED LED LIGHT FIXTURE
	RETURN AIR DIFFUSER / EXHAUST
\square	SUPPLY AIR DIFFUSER
0	EXISTING SPRINKLER HEAD

LEGEND	DESCRIPTION
	8" MASONRY WALL
XXXXXXX	12" MASONRY WALL
4 - A A	CONCRETE WALL
	LOAD BEARING WALL

PARTITION NOTES

ABBREVIATIONS

- CORE TYPE 1 = CONCRETE
- 2 = MASONRY 3 = METAL STUD
- 4 = WOOD STUD 5 = EUBRING (METAL ST)
- 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)

XXX.XA

FIRE RATING 0 = NO RATING

- 1 = 1-HOUR 2 = 2-HOUR 3 = 3-HOUR
- 4 = 4 HOUR

THICKNESSES:

CONCRETE	MASONRY	METAL STUDS	WOOD STUDS
4 = 4"	4 = 3 5/8" (4" NOM.)	0 = 7/8"	1 = 3/4"
6 = 6"	6 = 55/8" (6" NOM.)	1 = 11/2"	2 = 1 1/2"
8 = 8"	8 = 7 5/8" (8" NOM.)	2 = 21/2"	3 = 21/2"
10 = 10"	12 = 11 5/8" (12" NOM.)	3 = 35/8"	4 = 3 1/2"
12 = 12"		4 = 4"	6 = 51/2"
		6 = 6"	8 = 71/4"
		8 = 8"	10 = 91/4"
		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.

	TRACK, TYP.
	#8 SCREWS @ 30" O.C. STUD TO STUD, TYP.
1- 	TRACK OR STUD 2" WIDER THAN WALL FRAMING STUD
	TRACK

GENERAL NOTES

MANUFACTURER	ICC EVALUATION REPORT NU
CLARK DIETRICH	ESR-1166P
MARINO/WARE	ESR-2620
CEMCO METAL FRAMING	ESR-3016
CERTIFIED STEEL STUD ASSOCIATION (CSSA)*	ESR-3016
STEEL STUD MANUFACTURERS ASSOCIATION (SSMA)*	ESR-3064P
*ANY MANUFACTURERS LISTED AND APPROVED TEST EV HOLDER	VALUATION REPORT AND REPO
2. PROVIDED MINUMUM 22 GAUGE STUDS - UNLESS HE ACCORDING TO THE PUBLISHED HEIGHT LIMITATION ICC EVALUATION REPORT. PROVIDE MINIMUM STUD INCREASED SIZE IS NECESARY ACCORDING TO THE F	AVIER GAUGE IS NECESSARY TABLES OF THE MANUFACTUR SIZES AS INDICATED UNLESS PUBLISHED TABLES OF THE

1. ACCEPTABLE LIGHT GAUGE METAL FRAMING MANUFACTURERS

3. INSTALL STUDS AT 16 INCHES ON CENTER TYPICALLY, UNLESS REDUCED SPACING IS NECESSARY ACCORDING TO THE PUBLISHED TABLES OF THE MANUFACTURER'S ICC EVALUATION REPORT. DO NOT SPLICE STUDS. PROVIDE STUDS NOT MORE THAN 2 INCHES FROM EACH CORNER OF WALL OR ABUTTING CONSTRUCTION.

MANUFACTURER'S ICC EVALUATION REPORT OR AS FOLLOWS:

- 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 BATCH 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-1752 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 HEAD

RT NUMBER

D REPORT SARY ACTURER'S

. BOXED HEADER

Ceiling grids Any alteration, installation, or deletion of any suspended ceiling grids the installation or deletion of any walls or new lights fixtures, HVAC equipment, sprinklers, etc. in any new or existing ceiling grid shall be inspected by the building department to ensure the requirements of ASTM 635 and 636 are compliant.

	ROOI
25	
26	
27	

TRAN	<u>SITIONS / ED</u>
RESIL	LIENT ACCES
1.	<u></u>

NOTES:

ROOM FINISH SCHEDULE

#	NAME	BASE	FLOOR	WALLS	CEILING	REMARKS
MLT	T LAB	RB-1	VCT-1	PT-1	ACT-1	
MIC	RO/EQUIP	RB-1	VCT-1	PT-1	ACT-1	
STC	DRAGE	RB-1	VCT-1	PT-1	ACT-1	

FINISH LEGEND

MANUFACTURER: STYLE/MODEL - COLOR

<u>PAINT</u> 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 BASERB-1FLEXCO RUBBER BASE, 4", COLOR TO BE SELECTED BY OWNER

<u>PLASTIC LAMINATE</u> 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 <u>EPOXY RESIN</u> EXPY-1 DURCON

FINISH PLAN LEGEND

VCT-1

SAME HEIGHT

<u>SITIONS / EDGES</u> IENT ACCESSORIES

44

WHEELED

TRAFFIC

TILE ACCESSORIES (METAL)

1.	(TILE)	(RESILIENT)
2.	(TILE)	(CARPET)

(TILE) (CARPET) З.

4. (TILE) (CONCRETE)

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

ISSUE DATE: 05.20.2025 REV DATE COMMENT LICENSED ARCHITECT AR-986427 ERIC MATTHEW ROBERTS STATE OF IDAHO 05/21/2025 ollege Ŭ State LAB Z Clark ML Δ ____ FINISH LCSC Lewis JOB NO: 240128 A10-20

SHEET CASEWORK NOTES

- TO WALL. FINISH TO MATCH EXPOSED CABINETS SURFACES.
- BOTTOM.
- UPPER CABINETS TO CLOSE OFF ALL CONCEALED SPACES.
- QUALITY GRADE SPECIFIED.
- CABINETS.
- CABINETS. VERITCALLY ON THE DOOR.
- DRAWERS.
- DEEP OR FILE DRAWERS.

SPECIFICATIONS, U.N.O.

WITH <u>SQUARE</u> TOP, U.N.O. VERTICAL WALL SURFACE

- B. ALL TOE KICKS SHALL MATCH CABINET EXPOSED EXTERIOR SURFACE
- BLACK, U.N.O. SEE PLANS FOR LOCATIONS. C. HINGES SHALL BE EUROPEAN STYLE (INSET), U.N.O. SHELF SUPPORTS, U.N.O.

- PLASTIC LAMINATE, U.N.O.
- LAMINATE, COLOR=WHITE, U.N.O.

2-07REINSTALL EXISTING WHITE BOARDS2-09DISPLAY MONITORS WITH MONITOR MOUNTS: CHIEF LTM1U - C.F.C.I2-11FURNITURE TO BE C.F.C.I2-16REINSTALL EXISTING SERVER BOX2-20NEW CABINET TO HOST I.T. SERVER BOX. NEED POWER AND PATHWAY FOR NETWO10-01FIELD PAINT PT-110-02WALL BASE, RB-110-03CABINETS, PLAM-110-04BACKSPLASH, EPXY-1		
2-09DISPLAY MONITORS WITH MONITOR MOUNTS: CHIEF LTM1U - C.F.C.I2-11FURNITURE TO BE C.F.C.I2-16REINSTALL EXISTING SERVER BOX2-20NEW CABINET TO HOST I.T. SERVER BOX. NEED POWER AND PATHWAY FOR NETWO10-01FIELD PAINT PT-110-02WALL BASE, RB-110-03CABINETS, PLAM-110-04BACKSPLASH, EPXY-1	2-07	REINSTALL EXISTING WHITE BOARDS
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2-20NEW CABINET TO HOST I.T. SERVER BOX. NEED POWER AND PATHWAY FOR NETWO10-01FIELD PAINT PT-110-02WALL BASE, RB-110-03CABINETS, PLAM-110-04BACKSPLASH, EPXY-1	2-16	REINSTALL EXISTING SERVER BOX
10-01 FIELD PAINT PT-1 10-02 WALL BASE, RB-1 10-03 CABINETS, PLAM-1 10-04 BACKSPLASH, EPXY-1	2-20	NEW CABINET TO HOST I.T. SERVER BOX. NEED POWER AND PATHWAY FOR NETWOR
10-02 WALL BASE, RB-1 10-03 CABINETS, PLAM-1 10-04 BACKSPLASH, EPXY-1	10-01	FIELD PAINT PT-1
10-03 CABINETS, PLAM-1 10-04 BACKSPLASH, EPXY-1	10-02	WALL BASE, RB-1
10-04 BACKSPLASH, EPXY-1	10-03	CABINETS, PLAM-1
	10-04	BACKSPLASH, EPXY-1
10-05 COUNTER TOP, EXPY-1	10-05	COUNTER TOP, EXPY-1
10-06 CONDUIT LINE TO MONITORS, SEE ELECTRICAL	10-06	CONDUIT LINE TO MONITORS, SEE ELECTRICAL
10-06 CONDUIT LINE TO MONITORS, SEE ELECTRICAL	10-06	CONDUIT LINE TO MONITORS, SEE ELECTRICAL

MARK	DESCRIPTION	MANUFACTURER	MODEL	
EW-1	EYEWASH STATION	ACORN SAFETY	S1320-HFC	
FRZR-1	ISOTEMP FREEZER	FISHER	FBG2325FA	
MH-1	BIOSAFETY CABINET	LABCONO	PURIFIER LOGIC CLASS II A2	
REF-1	ISOTEMP REFRIGERATOR	FISHER	FBG4505GA	
REF-2	ISOTEMP REFRIGERATOR	FISHER	FBG2305GA	

ALL EXPOSED CASEWORK SURFACES WILL BE

ALL COUNTERTOPS SHALL BE:

3' - 0" 3' -i'0" 3' -i'0" 3' -i'0"	<u>_</u>
- 0" , 1' - 9" , 2' - 0" , 2' -'0" , 3' -'0"	10-02

COUNTER SUPPORT

A	PRORVER DULE	ABBREVIATIONS AI	ND GENERAL NOTES
PA#: 16235 Date: 6/6/20 These pla on the cor and notes This approva from, Idaho laws or rule	AE = AUTOMATIC ENTRANCE DOOR AFD = ACCORDIAN FOLDING DOOR AFD = ACCORDIAN FOLDING GRILLE AFP = ACCORDIAN FOLDING PARTITION B = BI-FOLD B = BI-F	DODR MATERIALS ALUM = ALUMINUM CWD = CLAD WOOD DOOR FG = FIBER GLASS GLD = LEADED GLASS GLD = LEADED GLASS GL = INSULATED UNIT, SAFETY GLASS GL = 1/2" LAMINATED GLASS GLS = 1/4" SAFETY GLASS HW = HOLLOW METAL WT = WOOD WISR = WOOD, STILE, & RAIL STL = STEEL (LE = LEAD LINED DODR FINISH ANV/AMV-1 = ACRYLIC MODIFIED VINYL CLA = CLEAR ANODIZED CO ACOA-1 = COLOR ANODIZED FF/F-1 = FACTORY FINISH HPDL/HPDL-1 = HIGH PRESSURE DECORATIVE LAMINATE LPIDL/LPDL-1 = LOW PRESSURE DECORATIVE LAMINATE PT/PT-1 = PAINT/PAINT COLOR WVFWVF-1 = WOOD VENEER FINISH	FRAME TYPES ALUM = ALUMINUM FRAME CW = CURTAIN WALL FL = FRAMELESS HMF = HOLLOW METAL FACTORY FINISHED HMFA = HOLLOW METAL FACTORY FINISHED HMFA = HOLLOW METAL FACTORY FINISHED MP = HOLLOW METAL FACTORY FINISHED MP = HOLLOW METAL FACTORY FINISHED SF = STOREFRONT = NOT SPECIFIED/NON-SPECIFIC (LE) = LEAD LINED PRAME FINISH CLA = CLEAR ANODIZED COA/COA-1 = COLOR ANODIZED FF/FF-1 = FACTORY FINISHED PT/PT-1 = PAINT/PAINT COLOR = NOT SPECIFIED/NON-SPECIFIC
	 GENERAL NOTES A. EXIT DOORS SHALL BE OPERABLE FROM B. DOOR OPERATING DEVICES SHALL BE LE C. THE BOTTOM 10' OF ALL DOORS SHALL ID EXTERIOR HOLLOW METAL DOORS AND E. HARDWARE: ALL HARDWARE SHALL CO FOR DESIGN, FUNCTION SIZE, OPERATIO F. DOOR JAMB, HEAD AND SILL DETAILS AS WHERE NOT CLEARLY DEFINED, CLARIFI G. ALL EXTERIOR DOORS SHALL BE WEATH H. ALL THRESHOLDS PROVIDED SHALL BE I. ADJUST ALL DOORS NOT TO EXCEED TO J. UNLESS NOTED OTHERWISE, DOOR OPE CLOSING OR AUTOMATIC CLOSING AND 	THE INSIDE WITHOUT THE USE OF A KEY OR ANY S EVER OPERATED, PUSH TYPE OR U-SHAPED HANDL BE PROVIDED WITH A SMOOTH SURFACE TO ALLOW FRAMES SHALL BE PAINTED AS NOTED ON THE EX MPLY WITH APPLICABLE PROVISIONS OF ADA STAN IN, AND MOUNTING LOCATIONS. S INDICATED REFLECT DESIGN INTENT, LOCATIONS ICATIONS SHALL BE REQUESTED BEFORE PROCEED IER STRIPPED. A MAXIMUM OF 1/2" HEIGHT ABOVE FINISH FLOOR. D THE MAXIMUM OPERATIONS EFFORT ALLOWED BY SNINGS IN RATED WALL SHALL BE PROTECTED BY A SHALL BE PROVIDED WITH A CONTINUOUS GASKE	SPECIAL KNOWLEDGE OR EFFORT. ES PER ANSI A117.1 W THE DOOR TO BE OPENED WITH A WHEELCHAIR F TERIOR ELEVATIONS AND ON THE INTERIOR SIDES A NDARDS AND ICC A117.1. REFER TO HARDWARE SE NOARDS AND ICC A117.1. REFER TO HARDWARE SE NING WITH THAT PORTION OF THE WORK. SEE 10/G0-10. Y CODE. A TIGHT FITTING SMOKE AND DRAFT CONTROL ASSE T ALONG THE STOP AT THE DOOR JAMB AND HEAD.

FRAME TYPES DOOR TYPES WIDTH 2" SEE DOOR 2" /<u>HMP</u> <u>TYPE "A"</u> FLUSH

60

20 = 20 MINUTES = 60 MINUTES 90 = 90 MINUTES

S = SMOKE AND DRAFT CONTROL STC/STC-# = SOUND RETARDANT DOOR

DOOR SCHEDULE

			DOOR				FRAME					
NO.	SI	ZE	ТУЛГ		FINICH	TVDE		DETAIL		RATING	HDWR SET	REMARKS
	WIDTH	HEIGHT			FINION	TTPE		JAMB	HEAD			
125BE	3' - 0"	7' - 0"	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
125E	3' - 0"	7' - 0"	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
126	3' - 0"	7' - 0"	A	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	2/A11-10	1/A11-10	NO RATING	01	1
127	3' - 0"	7' - 0"	A	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	2/A11-10	1/A11-10	NO RATING	01	1
	•										·	•

HARDWARE SET 01:

(1) CLASSROOM LEVEL L9070 P SCHLAGE (3) HINGES (1) DOOR CLOSER (1) DOOR STOP

5BB1HW IVES LCN 4000 ALLEGION 90 SERIES GLYNN JOHNSON

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

R FOOTREST PER ANSI A117.1 S AS NOTED PER THE DOOR SCHEDULE.

SETS FOR FINISH, DESCRIPTIONS, REQUIREMENTS SIMILAR IN CHARACTER TO THOSE DETAILS.

SEMBLY. THE LABELED ASSEMBLY SHALL BE SELF.

<u>TYPE "B"</u> FLUSH

<u>REMARKS</u>

1. ACCESS CONTROL

MOTORIZED DAMPER MD — 🗕 🗖

CHANI	CAL SYMBOLS		HVAC SYMBOLS		-	PIPING SY	'MBOLS
N NUMB	ER - SHOWN ON PLANS	<u>20"x8"</u>	SQUARE DUCT SIZE TAG (WIDTH	I x HEIGHT)			DOMESTIC COLD WATER
HERE N	EW CONNECTS TO EXISTING	20"Ø				DHWR	HOT WATER
HERE E	XISTING IS TO BE DEMOLISHED	(E)	ROUND DUCT SIZE TAG (DIAMET	ER)		-v — — — —	SANITARY VENT
OF DET	TAIL ON SHEET	100000001	EXISTING DUCT TAG			—W———	SANITARY SEWER
OF SHE	EET WHERE DETAIL APPEARS	SA	SURFILBEANG-DEMORIFEESDRE				
E		SA	SUPPLY AIR - MEDIUM PRESSUR	F		PIPE DROP 4"	2"
JATION	SYMBOL	PA		-			PLUG
AME AN	D NUMBER					PIPE TEE CAP 4"	REDUCING 45 DEGREE TEE
		EA	EXHAUST AIR				45 DEGREE TEE
BE DEN	IULISHED	DROP	RECTANGULAR SUPPLY/OUTSID	E AIR DUCT RISE			
T IN CO	DNTRACT		ROUND SUPPLY/OUTSIDE AIR DI	ICT RISE			
	-PIPE SIZE TAG (DIAMETER)	DROP	RECTANGULAR RETURN/TRANSP	ER AIR DUCT RISE			
	ABOVE GROUND PIPING -PIPE SI OPE TAG	DROP	ROUND RETURN/TRANSFER AIR	DUCT RISE			
_	BELOW GROUND PIPING	DROP	RECTANGULAR EXHAUST/RELIEF	F AIR DUCT RISE			
	PIPE INVERT ELEVATION TAG						
	EXISTING PIPE TAG PIPING BEING DEMOLISHED	CEILING ID	CFM BLOW PATTERNS	PI ENUM RETURN GRILLE			
			CD1/100 6"Ø 4-WAY	WITH SOUND BOOT			
		RECTANGULAR	E 3-WAY	RG4 /800 24"x24"			
		SUPPLY DIFFUSER	8"x8" 2-WAY				
REVIA	TIONS	ROUND SUPPLY	<u>CD5 /400</u> 12"Ø 2-WAY				
	LVR LOUVER LWT LEAVING WATER TEMPERATURE		RG1/500 12"x12" 1-WAY				
	MA MIXED AIR MAX MAXIMUM		RG2 /180) SIDEWALL				
	MBHONE THOUSAND BTU PER HOURMCFONE THOUSAND CUBIC FEET	RETURN GRILLE	8"Ø -√- L <u>SWS1/300</u> -√- L <u>SWS1/300</u>				
ENCY	MD MOTORIZED DAMPER MECH MECHANICAL	EXHAUST GRILLE	<u>EG2 /300</u> 12"Ø −⁄r► <u>SWR1 /600</u> 28"x12"				
	MFR MANUFACTURER MIN MINIMUM	RECTANGULAR EXHAUST GRILLE	EG3/150 8"x8" -\+ SWE1/400 16"x16"				
	MISC MISCELLANEOUS MTR MOTOR MILA MAKELID/AIR						
JR	NC NOISE CRITERIA						
	NIC NOT IN CONTRACT NO NUMBER						
	NO NORMALLY OPEN NTS NOT TO SCALE						
	O OXYGEN OA OUTSIDE AIR						
	PD PRESSURE DROP PIV POST INDICATOR VALVE						
	PLBG PLUMBING PRESS PRESSURE PRU PRESSURE PEDLICING VALVE						
	PSI POUNDS PER SQUARE INCH PSIG POUNDS PER SQUARE INCH GAUGE						
	PWR POWER R DUCT RISER						
	RA RETURN AIR RCP RADIANT CEILING PANEL						
	RD ROOF DRAIN RDO ROOF DRAIN OVERFLOW						
	REC RECESSED RED REDUCER						
	RH RELATIVE HUMIDITY RL/A RELIEF AIR						
	RM ROOM RPM REVOLUTIONS PER MINUTE						
	SF SQUARE FOOT SA SUPPLY AIR						
	SAN SANITARY SF SQUARE FOOT						
	SDSMOKE DAMPERSMSURFACE MOUNT						
	SP STANDPIPE SP STATIC PRESSURE						
	STM STEAM T THERMOSTAT						
	TD TRENCH DRAIN TDR TEMPERATURE DROP						
	TYP TYPICAL						
	VAC VACUUM V VENT						
	VAV VARIABLE AIR VOLUME VENT VENTILATION						
	VTR VENT THROUGH ROOF W WASTE						
	WB WET BULB WCO WALL CLEAN OUT						
	WH WALL HYDRANT						
SYM	BOLS						
R TAGS							
-	- MBD MANUAL BALANCING DAMPER						
₿-	CD COMBINATION FIRE/SMOKE DAMPER						
					INE STMBULS AND ABB	THIS SET OF I	DRAWINGS.

Note - Recent and the second

DIVISION OF OCCUPATIONAL & PROFESSIONAL LICENSES

- CONTRACTORS EXPENSE.
- PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS. 4. FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND
- ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- 7. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- OBTAINED AT OR NEAR THE JOB SITE.
- LOCATION AND PIPE, UNLESS NOTED OTHERWISE. 10. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL
- INVOLVED WITH FIRE SPRINKLER SYSTEM.
- 12. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE
- 13. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE
- 15. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- 17. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION

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

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

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

8. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA

9. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD

CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES

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.

AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

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.

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.

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 TO/FROM 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.

- REFLECTED CEILING PLAN, TYPICAL.

- ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
- - TYPICAL.

MECHANICAL GENERAL NOTES

1. COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL

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

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,

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.
- 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
- 11. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
- 12. DETAILS REFERENCE ALL SHEETS.

SPECIFICATIONS.

13. INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING.

<u>* NOTE *</u> ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

A.rvt	pproved State of Islaho	
3H_V20	PART 1 - GENERAL 1.01 DESCRIPTION	PART 2 - PRODUCTS 2.01 - DIFFUSERS. REGISTERS AND GRILLES
₽A#: 1623 ₽ate: 6/6/2	 4. 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. Ans Barela Apple Action Conditional Actional Action Conditional Action ConditionAction Conditiona	 AIR DISTRIBUTION EQUIPMENT SHALL BE OF SIZES AND CAPACITIES INDICATED. A. 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
on the co and note	DMPILADGERNMANDELECTREALED RESKECESDARY FOR MECHANICAL WORK, EXCEPT DISCONNECTS S applied. oval shall unpublic woods for bechanical controls including final	 B. FINISH FOR ALL REGISTERS, DIFFUSERS, GRILLES, ETC., SHALL BE OFF-WHITE UNLESS OTHERWISS B. SELECTED BY THE OWNER. APPROVED MANUFACTURERS FOR ALL AIR DISTRUBUTION PRODUCTS SHALL BE PRICE INDUSTRIES, NAILOR, METAL AIR, TUTTLE & BAILEY, TITUS, OR HART AND COOLE
an approv from, Idah	al of any violation of, or variance no's adoptconput for the and tow voltage wiring for mechanical controls as indicated on les applicable to this project.	C. 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 O TEMPERATURE AND DRAFTLESS AIR DISTRIBUTION THROUGHOUT ZONES OF OCCUPANCY WITH TEMPERATURE DIFFERENTIALS UP TO 25 DEGREES F FOR BOTH COOLING AND HEATING AIR.
	4. RESPONSIBILITY FOR OBTAINING CLARIFICATION OF DISCREPANCIES BETWEEN MECHANICAL AND ELECTRICAL WORK FROM ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.	D. VELOCITY OF MOVING AIR BELOW 5 FOOT LEVEL, DURING COOLING CYCLE, SHALL NOT EXCEED
DOPL	PROFESSION OF LICENSES C. RELATED WORK IN OTHER SECTIONS:	DEGREE F BELOW AVERAGE ROOM TEMPERATURE. VELOCITY OF MOVING AIR AT THE 1FOOT LEVI 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 F 1 0 DEGREES F BELOW AVERAGE ROOM TEMPERATURE AT 70 FPM. SOUND PRESSURE LEVEL IN A
d Lab	ELECTRICAL WORK AS FOLLOWS WILL BE PROVIDED UNDER ELECTRICAL DIVISION: A. CONDUIT FOR LINE VOLTAGE WIRING FOR EQUIPMENT AND DEVICES AS INDICATED OR	OCTAVE BANDS FOR EACH DIFFUSER SHALL NOT EXCEED NC35 NOISE CRITERIA CURVE AT TASK LEVEL WHEN UNITS OPERATE AT DESIGNED CAPACITIES.
SC Me	SPECIFIED EXCEPT CONDUIT FOR LINE AND LOW VOLTAGE WIRING FOR MECHANICAL CONTROLS AS SPECIFIED UNDER DIVISION 15.	E. CEILING DIFFUSERS, GRILLES AND REGISTERS SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE SO THAT THEY ARE NOT DEPENDING ON THE CEILING FOR SUPPORT.
.40218 - LC	 B. 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. C. PROVIDING DISCONNECT SWITCHES 	F. CEILING DUFFUSERS 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
ocs://2	D. INSTALLING ELECTRICAL DEVICES SUCH AS STARTERS AND DISCONNECTS, AND WHEN INDICATED, FURNISHING ALL SUCH DEVICES.	THE FLEXIBLE DUCT SHALL NOT BE CONNECT TO THE TOP OF THE SHEET METAL BOOT.
desk D	D. CODES AND STANDARDS:	 2.02 - DUCTS AND SHEET METAL WORK A. PROVIDE DUCTS, PLENUMS, ACCESS DOORS, FRESH AIR INTAKES, AND EXHAUSTS AS INDICATED
Auto	 IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING CODES, ORDINANCES AND AGENCIES, CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS: a. 2018 INTERNATIONAL MECHANICAL CODE b. 2018 INTERNATIONAL BUILDING CODE 	AND REQUIRED. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANC 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 SPIR/ LOCKSEAM DUCTS AND FITTINGS AND RECTANGULAR DUCTS OF GALVANIZED STEEL. ALUMINUM ELEXIBLE DUCTWORK OR CYNSUM ROADD DUCTWORK IS NOT ACCEPTABLE.
	 c. 2018 UNIFORM PLUMBING CODE d. 2018 INTERNATIONAL ENERGY CONSERVATION CODE e. 2018 INTERNATIONAL FUEL AND GAS CODE 	B. ALL CONNECTIONS TO MAIN DUCTS SHALL BE MADE WITH LOW LOSS FITTINGS.
	f. ASHRAE 90.1 - 2016 1.02 PRODUCT HANDLING	C. 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 GAI VANIZED SHEET METAL OR GAI VANIZED STRUCTURAL
	A. PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING AND AFTER INSTALLATION.	ANGLES IN ACCORDANCE WITH REQUIREMENTS OF ASHRAE GUIDE AND PUBLIC AUTHORITIES HAVING JURISDICTION.
	B. 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.	 D. TRANSVERSE JOINTS ON ALL DUCTS SHALL BE SEALED WITH MASTIC OR TAPE. F. LONGITUDINAL JOINTS ON DUCTS WITH INTERNAL STATIC PRESSURES IN EXCESS OF 0.75 INCHES
	1.03 JOB CONDITIONS	OF WATER PRESSURE SHALL BE SEALED WITH MASTIC OR TAPE.
	A. EXAMINATION OF SITE: EXAMINE THE SITE AND INCLUDE IN BID PROPOSAL ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED.	SMOOTH SURFACE TO FLOW AIR.
	1.04 MISCELLANEOUS A. PERMIT AND FEES: ARRANGE, APPLY AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS,	INCHES IN 5 FEET WHERE POSSIBLE, BUT NOT MORE THAN 12 INCHES IN 3 FEET IN ANY EVENT. H. TURNS SHALL BE MADE WITH A THROAT RADIUS OF NOT LESS THAN THE DUCT WIDTH.
	EXAMINATIONS AND FEES OR CHARGES REQUIRED BY PUBLIC AUTHORITIES HAVING JURISDICTION. B. LOCATIONS AND ACCESSIBILITY: CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING	 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 1/8" GALVANIZED ANGLES AND
	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.	REINFORCED VERTICALLY BY 1-1/2" STANDING SEAMS. 2.03 - VOLUME DAMPERS A. DAMPERS USED IN LOW VELOCITY BRANCH DUCTS TO CONTROL THE VOLUME OR AIR FLOW
	C. SCAFFOLDING: FURNISH ALL SCAFFOLDING, RIGGING AND HOISTING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK.	SHALL BE YOUNG NO. 817 VOLUME DAMPER OR EQUAL. AN OPERATING HEAD SHALL BE PLACE 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
	D. DRAWINGS: DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF DUCTWORK, EQUIPMENT, AND OTHER ITEMS, AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. ALL	CONTROL DAMPER OR EQUAL, CONSISTING OF AN END BEARING OR MITER GEAR, COUPLING, 3/8- INCH SQUARE SHAFT, AND REGULATOR FOR OPERATING THE UNIT FROM THE CEILING SHALL BE PROVIDED.
	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	 M2.04 - INSULATION A. THERMAL DUCT INSULATION: INSULATE ALL SUPPLY AND RETURN AIR DUCTS, UNLESS OTHERWISI SPECIFIED WITH KNAUF OR EQUAL, MICROLITE FIBERGLASS DUCT INSULATION, FOIL FACED, 3/4 LE DENSITY, 4 1/0" THISS INSULATION WEAPPED ENTITIES & ADOLINE DUCT WITH, JOINTS & ADDED AT
	E. 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.	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 WRAF SHALL BE A MINIMUM OF R-5.
	1.05 EQUIPMENT IDENTIFICATION	SHALL BE LINED WITH KNAUF LINACOUSTIC 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 RETURI
	A. 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.	LINACOUSTIC 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 T 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
	 B. INFORMATION ON LABELS SHALL INCLUDE THE FOLLOWING: 1. IDENTIFICATION NUMBER AND NAME. GENERALLY THIS NUMBER AND NAME SHALL BE THE 	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
	SAME AS THAT SHOWN ON THE DRAWINGS OR IN THE SPECS. 2. IF THE ITEM IS A FAN, THE FLOW AND HEAD SHALL BE INDICATED. C. THE TYPES OF NAMEPLATES SHALL BE AS FOLLOWS:	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.
	 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-5300. 	C. 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 ACCOMODATE INSULATION.
	 EQUIPMENT NAMEPLATES SHALL BE BLACK FACED FORMICA WITH WHITE ENGRAVED LETTERING AT LEAST 3/16" HIGH. 	2.05 INLINE EXHAUST FAN
	 D. 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 	A. 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 WIT THERMOSTAT BY FAN MANUFACTURER. FANS SHALL BE GREENHECK, COOK, OR TWIN CITY.
	A. 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 FOURPMENT SUBMITTALS FOR ENGINEER TO REVIEW IN	2.06 BUILDING AUTMOATION SYSTEM A. INTERCONNECT NEW INLINE FANS INTO THE EXISING CONTROLS SYSTEM.
	ACCORDANCE WITH THESE SPECIFICATIONS. SHOW ALL DETAILS OF ALL DUCTWORK, AND EQUIPMENT PADS. B. PRODUCT DATA:	B. BMS SHALL MONITOR FAN ON/OFF STATUS AND ALARMS.
	1. SUBMIT PDFS 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. MANUEACTUREDS AND SUDDUEDS OF FOUR MENT SHALL PROVIDE ALL DATA NECESSARY FOR 	
	COMPLIANCE WITH THE STATE OF IDAHO ENERGY CONSERVATION STANDARDS.	
	D. OPERATING MANULALS AND MAINTENIANCE MANULALS.	
	1. SUBMIT PDF COPY OF ALL OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS.	
	2. FULLY INSTRUCT OWNER'S 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 MAINTENANCNE OF EQUIPMENT AND SYSTEM. 3. SUBMIT ONE (1) ADDITIONAL SET OF APPROVED INSTRUCTIONS AND ONE (1) ADDITIONAL SET 	
	OF APPROVED CONTROL DIAGRAMS. E. GUARANTEES: IN ADDITION TO EQUIPMENT WARRANTIES, FURNISH A WRITTEN GUARANTEE AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ON 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 FOULIPMENT PROVIDED LINDER THIS SECTION	

TIES INDICATED.

VN ON THE DRAWINGS AND ALL GRILLES, DIFFUSERS, AND BER GASKETS SUITABLE FOR THE AREA

HALL BE OFF-WHITE UNLESS OTHERWISE FOR ALL AIR DISTRUBUTION PRODUCTS & BAILEY, TITUS, OR HART AND COOLEY.

PACE IN SUCH A MANNER THAT MIXED, RESULTING IN EQUALIZATION OF GHOUT ZONES OF OCCUPANCY WITH BOTH COOLING AND HEATING AIR.

COOLING CYCLE, SHALL NOT EXCEED AGE ROOM TEMPERATURE OR 70 FPM AT 1 TY OF MOVING AIR AT THE 1FOOT LEVEL, . TEMPERATURE DIFFERENCE AT OR WING: 2 DEGREES F BELOW AVERAGE VERAGE ROOM TEMPERATURE AT 50 FPM, 70 FPM. SOUND PRESSURE LEVEL IN ALL IC35 NOISE CRITERIA CURVE AT TASK

DEPENDENTLY SUPPORTED FROM THE EILING FOR SUPPORT.

TAKES, AND EXHAUSTS AS INDICATED ERECTED AND TESTED IN ACCORDANCE ROCEDURES DETAILED IN THE ASHRAE

DARDS ADOPTED BY THE SHEET METAL IATION. PROVIDE PREFABRICATED SPIRAL TS OF GALVANIZED STEEL. ALUMINUM IOT ACCEPTABLE. OW LOSS FITTINGS.

TAPE. GHT. INSIDE OF DUCT SHALL PRESENT A

ITROL THE VOLUME OR AIR FLOW OPERATING HEAD SHALL BE PLACE ON ON BY A SET KEY WHERE THE DAMPER IS OUNG NO. 817A OR 817B VOLUME ARING OR MITER GEAR, COUPLING, 3/8-HE UNIT FROM THE CEILING SHALL BE

ETURN AIR DUCTS, UNLESS OTHERWISE S DUCT INSULATION, FOIL FACED, 3/4 LB. OUND DUCT WITH JOINTS LAPPED AT E ON 12" CENTERS. INSULATION SHALL ERMAL RESISTIVE VALUE OF DUCT WRAP

CATED IN UNCONDITIONED SPACES NCH, 1-1/2 LB, THERMAL RESISTIVE TANGULAR SUPPLY DUCTS AND RETURN HALL BE LINED WITH KNAUF STIVE VALUE OF DUCT LINER SHALL BE A ER COMPLYING WITH FRICTION CITY OF 3000 FPM. APPLY INSULATION TO DHESIVE TO PROVIDE 100% COVERAGE THAN 12", SECURE INSULATION WITH CED AT 14" CENTERS IN BOTH ITH THE LINER SURFACE AND SHALL I, AND WITHIN 3" OF THE LEADING EDGE OATED WITH AN APPROVED FIRE ASSURE SNUG CLOSING CORNER

RAWINGS SHALL BE FURNISHED AND OR FANS. FAN SHALL BE PROVIDED WITH REENHECK, COOK, OR TWIN

3.01 DISCREPANCIES

A. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE OWNER.

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

3.02 EQUIPMENT IDENTIFICATION

A. 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

A. 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 PREMISIS

A. 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

A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

3.06 ACCESSIBILITY

A. 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 A. BALANCING WORK INCLUDED:

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

B. VERIFICTION 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. C. PROTECTION: AS SPECIFIED HEREIN.

D. 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.

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

F. 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.

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

H. AIR DISTRIBUTION TESTING AND BALANCING:

a. TEST AND RECORD MOTOR FULL LOAD AMPERS AND RPM.

- b. TEST AND RECORD SYSTEM STATIC PRESSURES, SUCTION AND DISCHARGE.
- c. ADJUST ALL SUPPLY AND RETURN AIR DUCTS TO PROPER DESIGN CFM. d. IN COOPERATION WITH THE CONTROL MANUFACTURER'S REPRESENTATIVE, THE SETTING ADJUSTMENT OF AUTOMATICALLY OPERATED CONTROLS TO OPERATE AS SPECIFIED, INDICATED AND/OR NOTED.

I. 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

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

3.09 CERTIFICATION

SPECIFICATIONS.

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

- END -

PA#: 1628597 RAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND DIVISION 1, ARE A PART OF THIS SECTION AND THE CONTRACT FOR THIS WORK AND SHALL APPLY TO THIS SECTION AS FULLY AS IF

These plans are approved contingent

On the CURNING ALL LABOR MATERIALS FOR PRENT APPLIANCES AND ACCESSARY INCIDENTALS FOR THE and notes applied THIS SECTION

- This approval shall not be construed to be an approval of any violation of, or variance
- ୍ୟାrom, Idaho'spavelชptechvoodew,Tereandwords

aws or rules ramphice before the terms of the sing through walls and floors.

4. PIPE COVERING, INSULATION AND WRAPPING

DIVISION OF OCCUPATIONAL 8 PROFESSIONAL CENSES THER MISCELLANEOUS ITEMS OR EQUIPMENT

REQUIRED FOR A COMPLETE INSTALLATION.

3 QUALITY ASSURANCE A. CODES AND STANDARDS

- 1. ALL ITEMS INDICATED ON SITE, ARCHITECTURAL, OR MECHANICAL DRAWINGS ARE TO BE PROVIDED COMPLETE FROM POINT OF CONNECTION TO FINISHED FIXTURE IN CONFORMANCE WITH ALL GOVERNING AUTHORITY REQUIREMENTS. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK IN VIOLATION OF GOVERNING CODES.
- 2. IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING COES, ORDINANCES AND AGENCIES, CONFORM TO THE REQUIRMENTS OF THE FOLLOWING CODES AND STANDARDS:
- b. 2018 INTERNATIONAL BUILDING CODE
- c. 2018 INTERNATIONAL MECHANICAL CODE
- d. 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 1.04 PRODUCT HANDLING
- A. PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING AND AFTER INSTALLATION.
- B. 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.
- 1.05 SUBMITTALS
- A. MANUFACTURER'S LITERATURE: WITHIN 35 DAYS AFTER AWARD OF CONTRACT AND BEFORE ANY OF THE MATERIALS OF THIS SECTION ARE DELIVERED TO THE JOB SITE, SUBMIT SEVEN COMPLETE BROCHURES OF ALL MATERIALS AND EQUIPMENT, PER DIVISION 1 OF THE SPECIFICATIONS.
- B. OTHER SUBMITTALS:

1. SHOP DRAWINGS STERILIZATION TEST REPORT TEST DATA

SETS IN BOUND BOOKLET FORM OF WRITTEN OPERATING AND MAINTENANCE INSTRUCTIONS AND BROCHURES FOR EQUIPMENT SPECIFIED IN THIS SECTION. FULLY INSTRUCT OWNER'S OPERATING PERSONNEL.

- RECORD DRAWINGS: KEEP AN ACCURATE DIMENSIONED RECORD OF AS-BUILT LOCATIONS AND ELEVATIONS, AS REFERRED TO APPROVED BASE DATUM, OF BURIED CONCEALED.
- D. OPERATION AND MAINTENANCE INSTRUCTION: DELIVER TO ARCHITECT TWO COMPLETE LINES. MANHOLE, CLEANOUTS, VALVES, PLUGGED TEES, CAPPED ENDS, AND OF WORK WHICH IS INSTALLED DIFFERENT FROM SHOWN IN THE PLANS.
- 1.06 MISCELLANEOUS
- A. EXAMINATION OF THE SITE: EXERCISE CARE IN EXAMINING THE SITE AND COORDINATE ALL WORK INDICATED IN THE DRAWINGS WITH EXISTING CONDITIONS. REPORT TO ARCHITECT IN WRITING CONDITIONS THAT WILL PREVENT PROPER PROVISIONS OF THIS WORK. VERIFY DEPTH AND LOCATION OF ALL SERVICE LINES WITH SERVICING COMPANIES HAVE IN JURISDICTION BEFORE EXCAVATING. BY SUBMISSION OF THE BID, THE CONTRACTOR WARRANTS THAT HE HAS FAMILIARIZED HIMSELF WITH THE EXISTING CONDITIONS AND WILL PERFORM ALL WORK AS REQUIRED FOR HOOKUP AND AS REQUIRED BY THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST.
- B. PERMITS AND FEES: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND FEES REQUIRED BY ALL GOVERNING AGENCIES.
- C. SERVICE CONNECTIONS MAKE ALL NECESSARY ARRANGEMENTS WITH APPLICABLE UTILITY COMPANY FOR CONNECTION TO EXISTING SERVICE LINES. PAY ALL FEES ASSOCIATED WITH WORK INCLUDING METERS, HOOKUP CHARGE AND UTILITY ASSESSMENT FEES.
- DRAWINGS: COORDINATE ALL SPACE REQUIREMENTS WITH OTHER TRADES. DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF PIPING, EQUIPMENT, AND OTHER ITEMS AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE.

PART 2 - PRODUCTS 2.01 - GENERAL

- A. PIPE SLEEVES AND WRAPPING: PROVIDE POLISHED CHROMIUM PLATED AND BRASS SET SCREW FLANGES WHERE PLUMBING PIPING PASS THROUGH WALLS, FLOORS, CEILINGS, AND PARTITIONS IN FINISHED PORTIONS OF BUILDING INCLUDING FLANGES ON PIPES AT FIXTURES. ALL SLEEVES IN CONCEALED AND EXTERIOR WALLS SHALL BE 20 GA. GALVANIZED IRON ONE INCH O.D. LARGER THAN THE PIPE, CAULKED IF BELOW GRADE IN A MOISTUREPROOF MANNER. ALL PIPES PENETRATING THROUGH FIRE WALLS AND FLOORS SHALL BE PROPERLY SAFED WITH DOW CORNING 3-6548 SILICONE RTV FOAM OR EQUAL. INSTALL PER MANUFACTURE'S DIRECTION. B. PIPE IDENTIFICATION:
- 1. PIPING IDENTIFICATION PER ANSI AND OSHA STANDARDS: EACH INDIVIDUAL PIPELINE SHALL BE MARKED FOR QUICK AND EASY IDENTIFICATION AS TO CONTENTS AND CHARACTER OF MATERIAL CARRIED IN THE PIPES BY SET ON SNA OR STR MARKER.
- 2. MARKERS SHALL BE INSTALLED AND SPACED AT NOT MORE THAN 8 FT. INTERVALS AND SO LOCATED THAT MARKERS SHALL BE VISIBLE WHERE PIPING SYSTEM IS EXPOSED.
- 3. COLOR SCHEME SHALL BE APPROVED. BASE COLOR FOR MARKERS SHALL BE AS FOLLOWS: DOMESTIC HOT WATER - YELLOW
- DOMESTIC COLD WATER GREEN SANITARY SEWER - GREEN
- SANITARY VENT GREEN CONDENSATE DRAIN - BLUE
- C. ONE MARKER SHALL BE INSTALLED AT EACH SIDE OF VALVES, SPECIAL FITTINGS AND AT BRANCH TAKE-OFF. IN FURRED SPACES INSTALL ONE BAND 2 FT. ABOVE FLOOR AND 19 IN. BELOW CEILING LINE.
- D. MATERIALS: MATERIALS WHEN NOT OTHERWISE DEFINITELY SPECIFIED SHALL CONFORM TO THE APPLICABLE ASTM, ASME, AGA, AND ASA STANDARDS. 2.02 - PIPE AND FITTING SCHEDULE

PIPE AND FITTINGS

- A. NO PIPE OF A FOREIGN MANUFACTURER WILL BE ACCEPTABLE.
- B. ALL PIPING, FITTING, FLANGES, ETC. SHALL BE FREE FROM DEFECTS AND SHALL COMPLY WITH THE APPROPRIATE ASTM SPECIFICATIONS.
- C. COPPER TUBING: ASTM B88, TYPE L FOR ABOVE GRADE PLUMBING. TYPE K BELOW GRADE PLUMBING.
- D. PVC PIPE AND FITTING: ASTM D1785 CLASS 150 WITH ASTM D 2853 SOLVENT CEMENT JOINTS UNLESS OTHERWISE SPECIFIED. SCHEDULE 40. PVC PLASTIC PIPE FITTINGS: ASTM F 628. SCHEDULE 40. PVC IS ONLY ALLOWED FOR BELOW GRADE PLUMBING.
- E. ACRYLONITRILE BUTADIENE STYRENE (ABS) PLASTIC PIPE: ASTM D 2661, SCHEDULE 40, ASTM F 628, SCHEDULE 40. ABS PLASTIC PIPE FITTINGS: ASTM F 409, ACCESSIBLE AND REPLACEABLE, SOLVENT CEMENT AND THREADED TYPES, DRAIN PATTERN. ONLY FOR BELOW GRADE PLUBING.
- F. CAST IRON SOIL PIPE AND FITTINGS ASTM A74.
- G. COPPER FITTINGS: WROUGHT COPPER, ANSI SPECIFICATION B16.22.
- H. BALL VALVES, DOMESTIC WATER: BRONZE, FULLPORT, CLASS 150, THREADED. a. GRINNELL 3750 OR 171N
- b. NIBCO T-585 c. JAMESBURY 300
- I. PARTITION STOP VALVES: T&S B415, LOOSE KEY TYPE WITH WALL FLANGE.
- J. BALANCING COCKS 2 INCHES AND SAMLLER SHALL BE CRANE NO 250 OR MILWUAKEE BUTTERBALL BB2-100 OR BB2-350 WITH MEMORY STOP.
- K. SOLDER a. JOINTS IN COPPER PIPING ABOVE GRADE SHALL BE STAY SAFE 50 SOLDER OR 95-5 SOLDER SHALL BE SILFOS OR SILVERFLOW FOR ALL REFRIGERANT PIPING JOINTS.

2.04 PIPE SLEEVES

AT CONCRETE WALLS OR FLOORS, ADJUST-TO-CRETE, PARAMOUNT, HOLE-OUT OR SPERZEL CRETESLEEVE FLOOR SLEEVES SHALL EXTEND TO TOP OF CONCRETE CURBS FOR PIPING RISING THROUGH FLOORS . WALL SLEEVES SHALL BE FLUSH WITH FINISHED SURFACE. SLEEVES SHALL BE SIZED TO ALLOW 1/2 IN. CLEARANCE AROUND PIPE INSULATION. INSULATION AND COVERING SHALL BE CONTINUOUS THROUGH WALL AND FLOOR SLEEVES. 2.05 CLEANOUTS

- A. FULL SIZE CLEANOUTS SHALL BE INSTALLED AT THE BASE OF EACH SOIL WASTE STACK. ALL OTHER CLEANOUTS SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND WHERE REQUIRED BY STATE, LOCAL OR NATIONAL PLUMBING CODES.
- B. ALL CLEANOUTS SHALL BE INSTALLED IN LOCATIONS EASILY ACCESSIBLE FOR RODDING. CLEANOUTS IN WALLS SHALL BE JR SMITH 4402, IN FLOORS JR SMITH 4023. CLEANOUTS SHALL BE JR SMITH, ZURN, WADE, OR JOSAM. 2.06 PIPE INSULATION
- A. ALL DOMESTIC HOT WATER AND COLD WATER PIPING SHALL BE COVERED WITH OWENS CORNING ASJ-25 FIBERGLASS PIPE INSULATION WITH VAPOR SEAL JACKET. INSULATION THICKNESS SHALL BE 1/2 INCH FOR COLD WATER AND 1 INCH FOR HOT WATER.
- B. INSULATE ALL PIPING UNDER LAVATORIES ACCESSIBLE TO THE PHYSICALLY HANDICAPPED WITH HOT WATER SUPPLY AND 'P' TRAP PREFABRICATED INSULATION, HANDI LAV GUARD. 2.07 PIPE HANGERS

HANGERS SHALL BE SUPPLIED WITH FACTORY INSTALLED ISOLATION AND DI-CHROMATE FINISH. PIPE 2 IN. AND SMALLER: GRINNEL F69. PIPE 2-1/2 IN. AND LARGER: GRINNEL F65. CONCRETE INSERTS: GRINNEL 281 ANAD 282. RISER CLAMPS FOR COPPER PIPING: GRINNEL 261P, PLASTIC COATED. RISER CLAMPS FOR OTHER PIPING: GRINNERL 261.

HANGER RODS SHALL CONFORM TO THE FOLLOWING: PIPE SIZE 2 IN. AND SMALLER: 3/8 IN. RODS. PIPE SIZE 2-1/2 IN. AND 3 IN.: 1/2 IN. RODS. PIPE SIZE 3 IN. AND LARGER: 5/8 IN. RODS.

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3.01	SURFACE CONDITIONS	Δ	
A.	INSPECTION: ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, THE ORIGINAL DESIGN, AND THE REFERENCED STANDARDS	А.	AND AT A TIME S AND BEAR COST THEREFORE SHA
В.	DISCREPANCIES		NEGLECT TO MA SPECIFICATIONS
	1. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE ARCHITECT.	_	TESTING COMPA
	 DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED. 	В.	HYDROSTATIC TH ELIMINATING ACC APPARENT ON TH
	 INTERFERENCES BETWEEN INSTALLED WORK OF VARIOUS TRADES DUE TO LACK OF COORDINATION SHALL BE RESOLVED BY ARCHITED WHOE DECISION IS FINAL. RELOCATE OR OFFSET ANY WORK AS REQUIRED TO ACCOMMODATE WORK OF THER TRADES AT NO EXTRA COST TO THE OWNER WHEN SO DIRECTED BY THE ARCHITECT. 		BEEN EXAMINED PRESSURE: SY DO
3.02	LOCATIONS AND SPACE REQUIREMENTS	C	SANITARY SOIL
Α.	CONTRACTOR SHALL FULLY INFORM HIMSELF REGARDING PECULIARITIES AND LIMITATIONS OF SPACES AVAILABLE FOR INSTALLATION OF WORK UNDER THIS DIVISION. DRAWINGS INDICATE DESIRED LOCATION AND ARRANGEMENT OF PIPING, EQUIPMENT AND OTHER ITEMS, AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. WORK SPECIFIED AND NOT CLEARLY DEFINED BY DRAWINGS SHALL BE INSTALLED AND ARRANGED IN A SATISFACTORY MANNER. IN ANY CASE AND AT ANY TIME, A CHANGE IN LOCATION REQUIRED BY OBSTACLES OR THE INSTALLATION OF OTHER TRADES NOT	0.	SYSTEM AND FIL VENTS) AND ALLO STARTS. MAKE T INTERCONNECTI TEST.
	SHOWN ON THE MECHANICAL PLANS SHALL BE MADE BY CONTRACTOR WITHOUT ADDITIONAL CHARGE PROVIDED THE CHANGE IS ORDERED BEFORE WORK IS INSTALLED AND NO EXTRA	3.05	
В.	VERIFY ALL SPACES, DIMENSIONS FOR ALL FIXTURE, EQUIPMENT, OR OWNER-FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS.	A.	CLEANOUTS SHA TO FLOORS ABO AND PUBLIC COR
C.	OBTAIN ALL NECESSARY ROUGH-IN DATA AND DIMENSIONS FOR ALL FIXTURES, EQUIPMENT, OR OWNER-FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS.	В.	MEMBRANES: WH TO CLEANOUT W
D.	MAINTAIN AMPLE HEADROOM CLEARANCES AND ACCESSIBILITY. MAINTAIN CEILING HEIGHTS.		FLANGE WITH A
E.	CONSTANTLY CHECK WORK OF OTHER TRADES TO PREVENT INTERFERENCE WITH THIS INSTALLATION.	C.	COVERS: SET CL SECURELY ANCH SUCH AS RESILIE
3.03	EXCAVATION AND BACKFILLING	D	
A.	PERFORM EXCAVATION AND BACKFILLING REQUIRED WORK UNDER THIS SECTION UNLESS OTHER- WISE SPECIFIED. CONFORM TO REQUIREMENTS OF DIVISION 2, SOILS REPORT AND OF PUBLIC AUTHORITIES HAVING, JURISDICTION	D. 3.10) PIPE INSTALLATION
3 04	SPECIALTY ITEMS	Α.	MAKE PIPE RUNS
A.	INSTALL AS INDICATED ON THE DRAWINGS, AS HEREIN SPECIFIED, AND AS RECOMMENDED BY MANUFACTURER.		SMOOTH AND UN BURRS. CONCEA DIRECTED OR IN
3.05	STERILIZATION	Р	
Α.	STERILIZE EACH UNIT OF WATER SUPPLY AND DISTRIBUTION SYSTEM WITH LIQUID CHLORIDE OR HYDROCHLORIDE BEFORE ACCEPTANCE FOR OPERATION IN ACCORDANCE WITH AWWA C601, "STANDARD FOR DISINFECTING WATER MAINS". WORK SHALL BE DONE BY CONTRACTOR AND, UNLESS OTHERWISE REQUIRED BY PUBLIC AUTHORITIES HAVING JURISDICITON, SHALL CONFORM TO THE FOLLOWING:	D.	OF OTHER TRAD FROM ARCHITEC INSTALL REQUIR CUTTING WORK
В.	METHOD: AMOUNT OF CHLORINE SHALL PROVIDE A DOSAGE OF 50 PPM MINIMUM. INTRODUCE	C.	EXPOSED PLATE SHOW NO TOOL
	A CONTACT PERIOD OF 24 HOURS MINIMUM DURING WHICH PERIOD CHLORINE RESIDUAL SHALL BE MAINTAINED AT 5 PPM MINIMUM. FLUSH OUT SYSTEMS WITH CLEAN WATER UNTIL RESIDUAL CONTENT IS NOT GREATER THAN 0.2 PPM FLUSH ENTIRE SYSTEM OPEN AND CLOSE VALVES IN	D.	DIELECTRIC UNIC
C.	LINES BEING STERILIZED SEVERAL TIMES DURING CONTACT PERIOD. TEST REPORTS: FURNISH ONE COPY OF TEST REPORT OF COMPLETE AND ADEQUATE	E.	UNIONS: PROVID VALVES, AT EQU FLANGES ARE IN
	STERILIZATION TO ARCHITECT BEFORE FINAL ACCEPTANCE OF WORK. CERTIFICATES SHALL BEAR SIGNATURE OF AN OFFICIAL OF LABORATORY RESPONSIBLE FOR TEST. COST OF TESTING LABORATORY SERVICES SHALL BE INCLUDED IN THE SUBCONTRACT	F.	FLOOR, WALL AN
3.06	ADJUSTING	G.	NOISE: INSTALL S
A.	UPON COMPLETION OF WORK AND AFTER CLEANING OF SYSTEM, FIXTURES AND EQUIPMENT, AND AUTOMATIC PARTS OF PLUMBING SYSTEM SHALL BE CAREFULLY ADJUSTED NORMAL OPERATION.	Н.	SHUTOFF VALVE SYSTEMS AND FO
	ADJUSTMENT.	I.	BURIED PIPING: I PIPING ACCURAT
3.07	HANGERS AND SUPPORTS		
A.	HOLD HORIZONTAL PIPE RUNS FIRMLY IN PLACE USING APPROVED STEEL AND IRON HANGERS, SUPPORTS, AND/OR PIPE RESTS UNLESS OTHERWISE INDICATED. SUSPEND HANGER RODS FROM	J.	
	CONCRETE INSERTS OR FROM APPROVED BRACKETS, CLAMPS OR CLIPS. HANG PIPES INDIVIDUALLY OR IN GROUPS IF SUPPORTING STRUCTURE IS ADEQUATE TO SUPPORT WEIGHT OF PIPING AND FLUID. EXCEPT FOR BURIED PIPING, HANG OR SUPPORT PIPE RUNS SO THAT THEY	ĸ.	INSTRUMENTS, A WHERE INDICATE
	 HORIZONTAL COPPER TUBING: FOR 2 IN. DIAMETER AND OVER, PROVIDE HANGERS EVERY 10 	L.	PIPE JOINTS: MA MALE THREAD O
	FT.; FUR 1-1/2 IN. DIAMETER AND SMALLER, EVERY 6 FT.	Μ.	PROVIDE PIPE IS
	 HORIZONTAL CAST-IRON HUB AND SPIGOT PIPING; PROVIDE HANGERS OR SUPPORTS AT EACH HUB. HORIZONTAL CAST-IRON NO-HUB PIPING: PROVIDE HANGERS OR SUPPORTS AT EACH SIDE OF 	N.	PIPING ROUGH-II ANCHORED WAS USE OF MAKESH
	NO-HUB FITTINGS. PROVIDE ANTI-SEPARATION BRACING AT EACH 90 DEGREE CHANGE OF		

4. VERTICAL PIPING: SUPPORT AT FLOOR WITH IRON PIPE CLAMPS.

DIRECTION.

IN LENGTH.

- 5. BRANCHES: PROVIDE SEPARATE HANGERS OR SUPPORTS FOR BRANCH LINES 6 FT. OR MORE
- 6. SOUND AND ELECTROLYSIS ISOLATORS: PROVIDE AT ALL HANGERS AND SUPPORTS FOR HOT AND COLD DOMESTIC WATER LINES. SECURELY ATTACH PIPE TO WALLS, STUDS, ETC. ALL SUCH PIPING ISOLATED FROM STRUCTURE BY "TRISOLATORS".

3.08 TESTS

- 'S TO ARCHITECT'S SATISFACTION. MAKE TESTS IN PRESENCE OF OWNER'S REP SUITABLE TO HIM IF REQUESTED. FURNISH NECESSARY LABOR AND EQUIPMENT TS FOR TESTING. COST OF REPLACING AND/OR REPAIRING DAMAGE RESULTING IALL BE BORNE BY THIS CONTRACTOR. SHOULD THE CONTRACTOR REFUSE OR AKE TESTS NECESSARY TO SATISFY THE ARCHITECT THAT REQUIREMENT OF AND DRAWINGS ARE MET SUCH TESTS MAY BE MADE BY AN INDEPENDENT PANY AND THE CONTRACTOR CHARGED FOR ALL EXPENSES.
- TESTS: MAKE BY COMPLETELY FILLING PIPING SYSTEM WITH WATER AND CCUMULATIONS OF AIR SO THAT LEAKAGE, NO MATTER HOW SMALL, WILL BE ESTING GAUGE IMMEDIATELY, MAINTAIN PRESSURE UNTIL PIPE UNDER TEST HAS), BUT IN NO CASE LESS THAN 24 HOURS. TEST SYSTEMS AT THE FOLLOWING YSTEM TEST PRESSURE
 - OMESTIC COLD WATER 150 PSIG OMESTIC HOT WATER 150 PSIG
- , WASTE, VENT SYSTEM TESTS: BEFORE INSTALLATION OF FIXTURES, CAP END OF LL LINES WITH WATER TO 10 FT. ABOVE THE SECTION BEING TESTED (INCLUDING LOW TO STAND FOR AT LEAST FIFTEEN (15) MINUTES BEFORE INSPECTION TESTS IN SECTIONS IF NECESSARY OR CONVENIENT. HOWEVER, INCLUDE TIONS BETWEEN NEW SECTIONS AND PREVIOUSLY TESTED SECTIONS IN THE NEW
- NOUTS WHERE INDICATED AND REQUIRED. UNLESS OTHERWISE INDICATED, ALL BE ACCESSIBLE WITH EXTENSIONS TO GRADE, TO OUTSIDE OF BUILDINGS, OR OVE AS INDICATED OR REQUIRED. DO NOT LOCATE CLEANOUTS IN PUBLIC LOBBIES RRIDORS UNLESS APPROVED BY ARCHITECT.
- /HERE WATERPROOFING MEMBRANE OCCURES UNDER FLOOR, BRING MEMBRANE NITHOUT PUNCTURING, AND PERMANENTLY ANCHOR TO INTEGRAL ANCHORING HEAVY CAST-IRON CLAMPING COLLAR AND RUSTPROOFED BOLTS.
- LEANOUT COVERS WITH ALL FINISHED WALL, FLOOR OR GRADE, IN ALL CASES HOR BY MEANS OF INTEGRAL LUGS AND BOLTS. WHERE SURFACING MATERIAL IENT COVERING IS SPECIFIED, ASCERTAIN THICKNESS BEING USED AND SET SO FINISHED FLOOR IS SMOOTH.
- THREAD COMPOUND.

- IS STRAIGHT AND TRUE. SPRINGING OR FORCING PIPING INTO PLACE IS NOT STALL IN MANNER TO PREVENT ANY UNDUE STRAIN ON EQUIPMENT. MAKE JOINTS NOBSTRUCTED INSIDE AND OUT, AND REAM PIPE ENDS THOROUGHLY TO REMOVE AL PIPING IN FINISHED PORTIONS OF THE BUILDINGS EXCEPT AS OTHERWISE IDICATED. CAP OR PLUG ENDS AND OPENINGS IN PIPE AND FITTINGS IMMEDIATELY RT UNTIL EQUIPMENT IS INSTALLED OR FINAL CONNECTIONS ARE MADE.
- TO CLEAR BEAMS UNLESS SLEEVING IS INDICATED. CONSTANTLY CHECK WORK DES TO PREVENT INTERFERENCE WITH THIS INSTALLATION. OBTAIN APPROVAL CT IF CORING OR CUTTING OF CONCRETE WORK IS NECESSARY DUE TO FAILURE TO RED SLEEVES PRIOR TO THE TIME OF CONCRETE POUR. COST OF CORING AND SHALL BE BORNE BY THE SUBCONTRACTOR.
- FED OR ENAMELED PIPE: MAKE CONNECTIONS TO EQUIPMENT WITH SPECIAL CARE. MARKS OR THREADS.
- IONS: MAKE CONNECTIONS BETWEEN TWO DISSIMILAR METAL PIPES WITH
- IDE A UNION ON ONE SIDE OF EACH SHUTOFF VALVE, AT BOTH SIDES OF AUTOMATIC JIPMENT CONNECTIONS AND ELSEWHERE INDICATED OR REQUIRED, UNLESS NDICATED.
- AND CEILING PLATES: PROVIDE WHERE PIPES PIERCE FINISHED SURFACES.
- L SOIL, WASTE, AND WATER PIPING IN A MANNER THAT PREVENTS ANY UNUSUAL OW OF WATER UNDER NORMAL CONDITIONS.
- ES: PROVIDE WHERE INDICATED AND REQUIRED FOR ADEQUATE CONTROL OF FOR ISOLATION OF FIXTURE GROUPS AND EQUIPMENT.
- INSTALL WITH MINIMUM 36 IN. COVERAGE UNLESS OTHERWISE INDICATED. LAY TELY TO GRADE WHERE INVERT ELEVATIONS ARE INDICATED. WHEN REQUIRED, ST BLOCKS PER MANUFACTURER'S RECOMMENDATIONS.
- MATERIALS: INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- : INSTALL WORK READILY ACCESSIBLE FOR NORMAL OPERATION, READING OF ADJUSTMENT, SERVICE, INSPECTION AND REPAIR. PROVIDE ACCESS PANELS ED AND REQUIRED. IAKE SCREWED JOINTS WITH A MINIMUM AMOUNT OF COMPOUND APPLIED TO THE
- ONLY. ALL JOINTS SHALL BE MADE PER CODE REQUIREMENTS.
- ISOLATION AT ALL HANGERS FOR NON-INSULATED MATERIALS.

- END -

- IN FOR FIXTURES: SUPPORT OR SECURE TO BUILDING CONSTRUCTION OF FIRMLY STE PIPING SO THAT PIPES CANNOT BE DISPLACED. DO NOT SECURE TO WALLS. HIFT DEVICES, SUCH AS ROPE, WIRE, TAPE, ETC. IS PROHIBITED.
- 0. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE MINIMUM SLOPE OF HORIZONTAL PIPE 4" OR LARGER IN DIAMETER MAY HAVE A SLOPE OF NOT LESS THAN 1% (1/8 INCH PER FOOT). THE MINIMUM SLOPE OF HORIZONTAL PIPE LESS THAN 4" MAY HAVE A SLOPE OF NOT LESS THAN 2% (1/4 INCH PER FOOT).

PART 3 - EXECUTION

	1	EXISTING ELEN	KEYN	OTES ND DASHED TO BE DEMO	DLISHED. TYPICAL.
	2	EXISTING ELEM	IENTS SHOWN LIGHT 1	o Remain. Typical.	

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.

FAN SCHEDULE

			AIR		FAN				ELECTRICAL		PHYSICAL		
			MAXIMUM				FAN				LENGTH/		
MANUFACTURER			AIRFLOW	STATIC	OUTLET	FAN	WHEEL	STATIC	MOTOR		WIDTH/	INLET	
AND			RATE	PRESSURE	VELOCITY	SPEED	DIAMETER	EFFICIENCY	BHP		HEIGHT	SOUND	
MODEL NUMBER	LOCATION	TYPE	(CFM)	(IN. WATER)	(FPM)	(RPM)	(IN)	(%)	(WATTS)	VOLT/PH/HZ	(IN)	(SONES)	NOTES
REENHECK CSP-A390-VG	MLT LAB LEVEL 1	INLINE	250	0.3	259	1099	7.75	23	39	115/60/1	12/14/2011	1.4	1-4
REENHECK CSP-A510-VG	MLT LAB LEVEL 1	INLINE	500	0.3	1111	1243	7.5	14	127	115/60/1	14/18/15	2	1-4

2. PROVIDE FAN WITH A DIRECT DRIVE EC MOTOR. BELT DRIVEN FANS WILL NOT BE ALLOWED. 3. PROVIDE WITH NETWORK CARD AND CONNECT TO BMS.

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%	

DOPL

utodesk Docs://240218 - LCSC Med

LEVEL 1 PLUMBING DEMO PLAN 1/4" = 1'-0"

KEYNOTES

- EXISTING ELEMENTS SHOWN DARK AND DASHED TO BE DEMOLISHED. TYPICAL.
 EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.
 LINES SERVING ISLAND SINK ARE COMING FROM THE FLOOR BELOW. DEMOLISH
- ALL LINES AT SINK AND CAP BELOW FLOOR.
 DISCONNECT FROM HOT WATER SOURCE AS IT GOES BELOW GRADE, AND ABANDON LINE IN PLACE. CONTRACTOR TO LABEL LINE NOTING THAT LINES ARE
- ABANONDED. 5 HOT WATER LINES SERVED FROM CENTRAL HOT WATER SYSTEM.

State of teater stamped Pate: 6/6/2025 Contingent these plans are approved contingent to the plans are approved contingent. A#: 1623597 on the compliance with the mark-ups and notes applied viewed of for compliance in This approval shak not be construed to be of for compliance in of any violation of, or variance s adopted codes etandards, and the standards of the standa PROFESSIONAL LICENSES AS adopted by the DOPL state of Idaho by a Plumbing Plan Řeview. 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.

Approved

KEYNOTES

- EXISTING ELEMENTS SHOWN LIGHT TO REMAIN. TYPICAL.
 ROUTE NEW 3/4" HOT AND COLD WATER PIPES TO THERMOSTATIC MIXING VALVE INSTALLED EXPOSED ON WALL NEXT TO SHOWED.
- INSTALLED EXPOSED ON WALL NEXT TO SHOWER. EXTEND TO NEAREST HOT WATER LINE.
- 4 CONNECT NEW 3/4" DCW LINE TO EXISTING 3/4" DCW LINE.
- CONNECT TO PLUMBING LINES THAT SERVED EXISTING SINK. PROVIDE WITH ALL NEW PLUMBING COMPONENTS INCLUDING ANGLE STOPS.
- 6 EXTEND 1/2" DHW AND DCW LINE FROM EXISTING SINK LOCATION TO NEW SINI LOCATION.
- 7 EXTEND NEW VENT AND WASTE LINE TO NEW SINK FROM EXISTING SINK LOCATION. DIRT LEG WASTE IN WALL TO EXISTING LOCATION.
- 8 EXTEND TO NEAREST VENT LINE.9 CONNECT NEW 1/2" DCW LINE TO EXISTING 3/4" DCW LINE.
- 0 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. CAP EXISTING PLUMBING LINES BELOW GRADE, REFER TO DEMOLITION NOTES.

	PLUMBING FIXTURE SCHEDULE										
		CW	HW	W	V						
ID	FIXTURE	(IN)	(IN)	(IN)	(IN)	SPECIFICATION					
ES-1	EMERGENCY SHOWER	3/4"	3/4"			EMERGENCY SHOWER: ACORN MODEL S1320-HFC FREE STANDING SAFETY STATION WITH SHOWER AND PLASTIC BOWL EYE/FACE WASH WITH STAY OPEN BALL VALVES. PROVIDE WITH ACORN ET71-2-BVS-OTG THERMOSTATIC MIXING VALVE AND WATTS LF7 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 PSRQ1722-2 SS, TYPE 304 STAINLESS STEEL 14" x 14" x 7.125" SINGEL BOWL DROP-IN SINK. REAR CENTER DRAIN. PROVIDE ZURN Z812B4 RIGI FAUCET WITH WRIST BLADE HANDLES. FAUCET SHALL BE PLAIN END SPOUT WITH 1.5 GPM FLOW CONTROL. PROVIDE PROFLO PF1431SS STRAINER ASSEMBLY, BRASS P-TRAP, AND LOOSE KEY ANGLE STOPS. ALTERNATE MANUFACTURERS WILL BE CONSIDERED UPON PRIOR APPROVAL.					

5 Ap	pro	ved			
Sta	te of Id	laho			
C C	DOPL				
[□] ■A#· 1623597	\bigotimes	MECHANICAL/PLUMBING EQUIPME	NT CALLOUT		
Date: 6/6/2025	(X-1)	KITCHEN EQUIP. CALLOUT			
These plans	are app	KITCHEN EQUIP. CALLOUT OR AS I	IOTED BY ARCH.		
on the com	liance w	LUMINAIRE TYPE			
and notes a		Diagram/detail callour			
This approval	shall not	CONDUIT RUN CONCEALED IN WAL	L/CEILING		
an approval o	f any viola	CONDUITRUN CONCEALED IN GRO Ition of, of variance	UND/FLOOR		
∄rom, Idaho's	adopted c	SURFACE RACEWAY/WIREMOLD			
්aws or rules a	ap <mark>plicable</mark>	to this project.			
		EXISTING			
DIVISION	OF OCCU	ATIONA CONFICTION			
PROI	ESSIONA	HOMERUN YO PANEL			
		CONDUIT STUB			
	ę	CONDUIT STUB DOWN			
d Lal	o	CONDUIT STUB UP			
Mee	\$	CONDUIT BREAK/CONTINUATION			
CSC	-0-30-	FUSE			
3 - L(\downarrow	GROUND/GROUND ROD			
0218	$\widehat{}$	CIRCUIT BREAKER			
//24		N	OTES		
Autodesk Docs	 (1) SEE LU (2) SEE LU (3) WIRE L (4) CONNE (5) DIRECI (6) COORE APPRO (7) USE WI (8) "X" IN S (9) PROVIE (10) MATCH (11) USE A (12) PROVIE 	MINAIRE SCHEDULE FOR MOUNTIN IGHT FIXTURE FROM ADJACENT J-B IGHT FIXTURE FROM ADJACENT J-B IGT NEAREST UN-SWITCHED HOT CO TONAL ARROWS INDICATE REQUIRE DINATE FINAL MOUNTING HEIGHT WI VED MILLWORK SHOP DRAWINGS. TH POWER PACK. SYMBOL IS INCHES BETWEEN RECEI DE UL LISTED DEVICE COMPATIBLE THE VOLTAGE OF THE RELAY WITH 4" X 4" BOX WITH A MUD RING TO MA DE MUD RING AND/OR BOX COVER A	G REQUIREMENT OX. ONDUCTOR TO EI ED CHEVRONS. TH ARCHITECTUI PTACLE ALONG N WITH THE FIRE AN I THAT OF THE CI ATCH THE DEVICI	S. MERGENCY BAL RAL INTERIOR E WIREWAY. SEE L LARM PANEL/SY ONTROLLING CI E AND INSTALLA R DEVICES/EIXT	LAST. LEVATIONS AN DRAWINGS. (STEM. RCUIT. ATION.
	(13) USE HE (14) SIZE TC (15) FIRE AL CIRCUI SYSTEI (16) LIGHT I	EAVY DUTY DEVICE FOR 480 VOLT. THE EQUIPMENT BEING CONTROLI LARM PANELS: FACP: FIRE ALARM (T PANEL, ANNUN: GRAPHIC ANNUN M PANEL. FIXTURES ARE SCALED WITHIN THE	LED. CONTROL PANEL CIATOR PANEL, A DRAWINGS BASI	, NAC: NOTIFICA ND SES: SMOKI ED ON ACTUAL I	TION APPLIAN E EVACUATION

97000 MARKEN SELECTION 00000 COUPER 970000 PACK PAC		FIRE ALARM SYMBOL SCI	HEDULE			ELECTRICAL SYMBOL SC	HEDULE	
 	SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS	SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
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Intelline Intelline Part Processing Part Proces	(C)(SMOKE DETECTOR, SOUNDER BASE	CEILING	(9)			18"	
Image: state is and a state is and		SMOKE DETECTOR, SOUNDER BASE, WALL	7'-6"	(9) (11)			10"	
Image Image <th< th=""><th></th><th>SMOKE DETECTOR, SOUNDER BASE, VISUAL IND.</th><th>CEILING</th><th>(9)</th><th></th><th></th><th>10</th><th></th></th<>		SMOKE DETECTOR, SOUNDER BASE, VISUAL IND.	CEILING	(9)			10	
Second Second<		SMOKE DETECTOR, SOUNDER BASE, VISUAL IND., WALL	7'-6"	(9) (11)		STANDARD CONVENIENCE OUTLET, SWITCHED	48"UNLESS	
122 112 000000000000000000000000000000000000	CO	CARBON MONOXIDE DETECTOR	CEILING	(9) (11)		STANDARD CONVENIENCE OUTLET, CUSTOM HEIGHT	NOTED 48"UNLESS	(6)
Image: Second server Image: Second seco		DUCT SMOKE DETECTOR	SEE MECH.	(9)		CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT	NOTED	(6)
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B PACH THE VERSION PA 12 Hold Sate 2 BK PA Second Sate 2 BK OUTCOME CONSUMMERTANCE AND CONTROL SATE 2 BK 12 HOLD SATE 2 BK PA PARK THE VERSION CONTROL SATE 2 BK OUTCOME CONSUMMERTANCE AND CONTROL SATE 2 BK 12 HOLD SATE 2 BK PA PARK THE VERSION CONTROL SATE 2 BK OUTCOME CONSUMMERTANCE AND CONTROL SATE 2 BK 13 HOLD SATE 2 BK PA PARK THE VERSION CONTROL SATE 2 BK FOR SATE 2 BK 14 HOLD SATE 2 BK PA PARK THE VERSION CONTROL SATE 2 BK FOR SATE 2 BK 14 HOLD SATE 2 BK PA PARK THE VERSION CONTROL SATE 2 BK FOR SATE 2 BK 15 HOLD SATE 2 BK PA PARK THE VERSION CONTROL SATE 2 BK FOR SATE 2 BK 14 HOLD SATE 2 BK PA PARK THE VERSION SATE 2 BK FOR SATE 2 BK 14 HOLD SATE 2 BK PARK THE VERSION SATE 2 BK PARK THE VERSION SATE 2 BK PARK THE VERSION SATE 2 BK 15 HOLD SATE 2 BK PARK THE VERSION SATE 2 BK PARK THE VERSION SATE 2 BK PARK THE VERSION SATE 2 BK 14 HOLD SATE 2 BK PARK THE VERSI	®₹	BEAM DETECTOR, RECEIVER/TRANSMITTER		(9)	• •	2 CIRCUITS TO EACH DEVICE	18"	
O Duernstructure Bit Duernstructure Duernstructure <thduernstructure< th=""> <thduernstructure< th=""> <thdu< th=""><th>BA</th><th>BEAM DETECTOR, REFLECTOR</th><th></th><th>(9)</th><th></th><th>COMBINATION POWER AND COMMUNICATION FLOOR BOX</th><th>FLOOR</th><th></th></thdu<></thduernstructure<></thduernstructure<>	BA	BEAM DETECTOR, REFLECTOR		(9)		COMBINATION POWER AND COMMUNICATION FLOOR BOX	FLOOR	
9 PREFORM TURNED COULD State 11 TREFORM TURNED COULD AP State State<	F	FLAME DETECTOR		(9)		DUPLEX OUTLET, POP-UP	COUNTERTOP	
Processor Proce	$\overline{\nabla}$	FIRE FIGHTER TELEPHONE OUTLET		(9) (11)	\bigcirc	SPECIAL PURPOSE OUTLET		
T T T T SUPECADE <	F	FIRE ALARM MANUAL PULL STATION	4'-0"	(9) (11)	\odot	DIRECT CONNECTION TO EQUIPMENT		
Description Part B(1)	×#	FIRE ALARM STROBE, ATTRIBUTE SIGNIFIES	7'-6"	(9) (11)	⊕ _D	CORD DROP OUTLET	SUSPENDED	
D PERALAWAGENESTICATION SOUTHER 1.4 0.011 I PERALAWAGENESTICATION STRUCT 7.4 0.011 2 CERTINAL AUDURALANCE FLOOR FLO		FIRE ALARM HORN	7'-6"	(9) (11)	^① CR	CORD REEL OUTLET	SUSPENDED	
1.10 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 <th2.00< th=""> 2.00 2.00 <th2< th=""><th></th><th>FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES</th><th>7'-6"</th><th>(9) (11)</th><th>•</th><th>POKE THRU, POWER</th><th>FLOOR</th><th></th></th2<></th2.00<>		FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES	7'-6"	(9) (11)	•	POKE THRU, POWER	FLOOR	
L. PRE CARE OF THE CARE AND AND ENDER P. 1010 P. 2		CANDELA RATING	7'-6"	(9) (11)	$\overline{\bigcirc}$	POKE THRU, POWER AND DATA	FLOOR	
No. No. No. No. No. No. See Amboant Contraction Control 1000 State		FIRE ALARM SPEAKER STROBE, ATTRIBUTE SIGNIFIES	7'6"	(9) (11)		POKE THRU, POWER AND DATA W/AV	FLOOR	
3-3 AFRAGE TRUE SCIENCE SUBC CLAUB (0,11)		CANDELA RATING CEILING MOUNT FIRE ALARM HORN STROBE,		(9) (11)		POWER/VOICE-DATA SERVICE POLE	AS NOTED	
10* ATBOILTS CONSTRUCT CELING 6 (011) 20* CELING MORTING CONSTRUCT CELING 6 (011) 20* CELING MORTING CONSTRUCT CELING 6 (011) 10* HELS AND HOM SAULED 10* HELS AND HOM SAULED 10* HELS AND HOM HOM SAULED 10* HELS AND HOM HOM HOM HOM SAULE SAULED 10* HELS AND HOM HOM HOM SAULE AUNTED 10* HELS AND HOM HOM HOM SAULE AUNTED 10*		ATTRIBUTE SIGNIFIES CANDELA RATING CEILING MOUNT FIRE ALARM STROBE.		(9) (11)		DISTRIBUTION JUNCTION UNIT		
0/07 ATTREDUCTION CONCLUCIONO 04.100 07.100 0.000 CLUCK 000000000000000000000000000000000000	@" #	ATTRIBUTE SIGNIFIES CANDELA RATING	CEILING	(9) (11)	VFD	VARIABI E EREQUENCY DRIVE		
Column Column Column Column Column Part Part Part Part Part Part Part Part		ATTRIBUTE SIGNIFIES CANDELA RATING	CEILING	(9) (11)	SPD			
Image: Second content of the second content		CEILING MOUNT FIRE ALARM HORN	CEILING	(9) (11)			AS NOTED	(12)
IP or R A MA Child IA KOTTR IS IA KOTTR IA KOTTR <thia kottr<="" th=""></thia>	F:O	FIRE SPRINKLER FLOW BELL	7'-6" AFF	(9)				(12)
B) Price ALAXE LEW FROLENCY VAULE AS WOTED B) Call Disolation Control Leads 1/2 1) 25 ALAXE LOW FROLENCY, NAMASLAI 45 WOTED 6)	F•●	FIRE ALARM CHIME	AS NOTED	(9)				(12)
Image: Proceeding of the second of		FIRE ALARM, LOW FREQUENCY, VISUAL	AS NOTED	(9)				(12)
• ELECTRONADURET DOOR HOLDER 64 NOTED • ELECTRONADURE 64 NOTED FM RELAY MODULE 18) 5 Standard, Organization 1 FM RELAY MODULE 19) 5 Standard, Organization 1 1 FM COVING JULE 19) 5 Standard, Organization 1 1 FM COVING JULE 19) 5 Standard, Organization 4 1 1 FM PRESUME SWITCH 19) 1 PUSH SUITO SWITCH, OUDLE 48 NOTED 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1<		FIRE ALARM, LOW FREQUENCY, NON-VISUAL	AS NOTED	(9)	⊢© ⊾M	MANUAL MOTOR CONTROLLER SWITCH WITHOUT		
FR RELAY ADDULE (0) (1) (1) (1) MM MAXITOR NED/LES (2) (2) (3) MAXIMA WITCH WITH INTERNAL CVERDAGE (2) PM CONTROL MODULE (2) (3) (3) (3) (3) (3) PM T PMSBUET SWITCH (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	•	ELECTRO MAGNETIC DOOR HOLDER	AS NOTED		Ş . P			
Image Monitor Multile Back Control Contro Contro <thcontrol< th=""></thcontrol<>	RM	RELAY MODULE		(9)	Ş TH			
DNI CONTROL MODULE Image: Sink and Mark Controls would in the sink and mark control in the sink and mark contere the mark mark mark mark mark mark mark mark	MM	MONITOR MODULE		(9)	\$			
PRESURE SWITCH (0) (0) (1) PREMEMBER ANOTED ANOTED TMMPLK SWITCH (0) (0) (1) PREMEMBER ANOTED (1) PREMEMBER (1) (0) (1) PREMEMBER ANOTED (1) PREMEMBER (1) (1) (1) PREMEMBER ANOTED (1) PREMEMBER (1) (1) (1) (1) PREMEMBER ANOTED (1) PREMEMBER (1) (1) (1) (1) (1) (1) (1) PREMEMBER (1) (1) (1) (1) (1) (1) (1) PREMEMBER (1) (1) (1) (1) (1) (1) (1) (1) PREMEMER (1) (1) (1) (1) (1) (1) (1) (1) PREMEMER (1) (1) (1) (1) (1) (1) (1) (1) PREMEMER (1) (1)	CM	CONTROL MODULE		(9)	\$^^			
TAMERS SWITCH 59 Image: Switch Switch Collisie As Notes As Notes FE LOW SWITCH 59 Skitch Collisie As Notes As Notes Image: Switch Scitch Switch Switch Collisie Skitch Collisie As Notes As Notes As Notes Image: Switch Scitch Scitch Switch Collisie Skitch Collisie As Notes As Notes As Notes Image: Switch Scitch Switch Switch Collisie Skitch Collisie As Notes As Notes As Notes Image: Switch Scitch Scitch Switch Switch Collisie Skitch Collisie As Notes As Notes As Notes Image: Switch Scitch Switch Switch Collisie Skitch Collisie As Notes As Notes As Notes As Notes Image: Switch Scitch Scitch Switch Switch Collisie Skitch Collisie Monetic States Witch Collisie As Notes As Notes As Notes Image: Switch Scitch Switch Scitch Scitch Switch Switch Collisie Skitch Collisie Monetic States Witch Collisie As Notes Associal Collisie Image: Switch Scitch Switch Switch Switch Switch Switch Collisie Skitch Collisie Monetic States Witch Collisie Associal Collisie Image: Switch Collisie Skitch Collisie Associal Collisie Associal Collisie Image: Switch Switch Switch Switc	PS	PRESSURE SWITCH		(9)		PUSH BUTTON SWITCH, SINGLE	AS NOTED	
FLOW SWITCH COP REAL	TS	TAMPER SWITCH		(9)	•••	PUSH BUTTON SWITCH, DOUBLE	AS NOTED	
▲ LOOP BOULTION MODULE (P) (P) EMERGENCY POWER OF EPD SWITCH (C) ▲ IRRE EXTINGUISHER MONTOR SEE PLANS (C) (C) NON-PUSED DISCONNECT SWITCH (C) (C) ▲ IRRE RER SEE PLANS (C)	FS	FLOW SWITCH		(9)	•••	BUSH BUTTON SWITCH, TRIPLE	AS NOTED	
Image: PRE EXTINGUISHER MONITOR See PLANS See PL	IM	LOOP ISOLATION MODULE		(9)	HD	EMERGENCY POWER OFF (EPO) SWITCH		
PRE RISER SEE PLANS IIII PRE ANUUCUATOR PANEL IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	XM	FIRE EXTINGUISHER MONITOR		(9)		NON-FUSED DISCONNECT SWITCH		(13) (14)
Image: Non-Citator Panel. (9) Mode Modeling Statter Modeling Statter (13) (14) Image: Non-Field Statter Mith Pused Disconnect (13) (14) (13) (14) (13) (14) Image: Non-Field Statter Mith Pused Disconnect (13) (14) (13) (14) (13) (14) Image: Non-Field Statter Mith Panel, Surface As Noted (15) Mageter: Statter With BREAKER Disconnect (13) (14) Image: Non-Field Statter Mith Panel, Recessed As Noted (15) Mageter: Statter With BREAKER Disconnect (13) (14) Image: Non-Field Statter Mith Panel, Recessed As Noted (15) Mageter: Statter With BREAKER Disconnect (13) (14) Image: Non-Field Statter Mith Panel, Recessed Image: Non-Field Statter (13) (14) (13) (14) Image: Non-Field Statter Mith Panel, Non-Field Statter Non-Field Statter (13) (14) (13) (14) Image: Non-Field Statter Mith Panel, Non-Field Statter Non-Field Statter Non-Field Statter (16) (16) Image: Non-Field Statter Image: Non-Field Statter Non-Field Statter (16) (16) (16) (16) (16) (16) (1	\bigcirc	FIRE RISER	SEE PLANS		Ē	FUSED DISCONNECT SWITCH		(13) (14)
NOTFICATION APPLIAUCE CONTROL PANEL (16) (13) (14) Image: A control panel, suprace As NOTED (15) (15) (13) (14) Image: A control panel, suprace As NOTED (15) (15) (16) (17) (13) (13) Image: A control panel, suprace As NOTED (15) (16) (17) (13) (13) (13) Image: A control panel, suprace As NOTED (15) (16) (10) (10) (10) (13) (13) Image: A control panel, suprace As NOTED (16) (16) (10) (10) (10) (10) (10) (10) (10) (13) (14) Image: A control panel, suprace As NOTED (16) (16) (10) (10) (10) (10) (10) (10) (10) (10) (10) (10) (10) (10) (10) (10) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11) (11)	ANN	ANNUNCIATOR PANEL		(9)		MAGNETIC STARTER		(13) (14)
Image: ALARM PANEL, SURFACE AS NOTED (15) Image: ALARM PANEL, RECESSED AS NOTED (16) Image: ALARM PANEL, RECESSED Image: ALARM PANEL, RECESSED (16) Image: ALARM PANEL, RECESSED Image: ALARM PANEL, RECESSED (16) Image: ALARM PANEL, RECESSED Image: ALARM PANEL, RECESSED (16) Image: ALARM PANEL, RECESSED Image: ALARM PANEL, RECESSED Image: ALARM PANEL, RECESSED	NAC	NOTIFICATION APPLIANCE CONTROL PANEL		(15)		MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)
Image: Recatary panel, Recessed AS NOTED Image: Recatary panel, Recessed Image: Recatary panel, Recessed Image: Recatary panel, Recessed Roop Image: Recatary panel, Recessed Image: Recatary panel, Roop panel, Ro		FIRE ALARM PANEL, SURFACE	AS NOTED	(15)		MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
MOTOR OUTLET MOTOR OUTLET ROOF MOTOR OUTLET, ROOF MOUNTED ROOF ILIGHTNING PROTECTION AIR TERMINAL ROOF ILIGHTNING PROTECTION AIR TERMINAL ROOF ILIGHTNING PROTECTION GROUND ROD GROUND ILIGHTNING PROTECTION GROUND ROD SEE PLANS ILIGHTNING PROTECTION GROUND ROD		FIRE ALARM PANEL, RECESSED	AS NOTED	(15)	R	POWER RELAY		(13) (14)
Image: Section 2011ET, ROOF MOUNTEDROOFImage: Section 2011ET, ROOF MOUNTEDROOFImage: Section 2011ET, ROOF MOUNTEDROOFImage: Section 2011ET, ROOF MOUNTEDROOFImage: Section 2011ET, ROOF MOUNTEDGROUNDImage: Section 2011ET, ROOF MOUNTEDSection 2011ET, ROOF MOUNTEDImage: Section 2011ET, ROOF MOUNTED ROMER FOR 2011ET, ROOF MOUNTEDSection 2011ET, ROOF MOUNTEDImage: Section 2011ET, ROOF MOUNTED ROMER FOR 2011ET, ROOF MOUNTED FOR 2011ET, ROOF MOUNTED FOR 2011ET, ROOF MOUNTEDImage: Section 2011ET, ROOF MOUNTED ROMER FOR 2011ET, ROOF MOUNTEDSection 2011ET, ROOF MOUNTEDImage: Section 2011ET, ROOF MOUNTED ROMER FOR 2011ET, ROOF MOUNTED, ROMER FOR 2011ET, ROOF MOUNTEDSection 2011ET, ROOF MOUNTEDImage: Section 2011ET, ROOF MOUNTED, ROMER FOR 2011ET, ROOF MOUNTED, ROMER					<u></u>	MOTOR OUTLET		
Identitions Protection air terminalROOFIdentitions Protection Bond PlateIdentitions Protection Bond PlateIdentitions Protection Ground RodGroundIdentitions Protection Ground RodGroundIdentitions Protection Ground RodSee PlansIdentitions Protection Protection PlaneSee PlansIdentitions PlaneMain Distribution Power PanelIdentitions PlaneSee PlansIdentitions PlaneSee Plans <t< th=""><th></th><th></th><th></th><th></th><th>(\widehat{O})</th><th>MOTOR OUTLET, ROOF MOUNTED</th><th>ROOF</th><th></th></t<>					(\widehat{O})	MOTOR OUTLET, ROOF MOUNTED	ROOF	
 LIGHTNING PROTECTION BOND PLATE LIGHTNING PROTECTION GROUND ROD GROUND GROUND POKETHRU UTILITY POWER POLE SEE PLANS TRANSFORMER SEE PLANS TRANSFORMER SEE PLANS SEE PLANS<!--</th--><th></th><th></th><th></th><th></th><th></th><th>LIGHTNING PROTECTION AIR TERMINAL</th><th>ROOF</th><th></th>						LIGHTNING PROTECTION AIR TERMINAL	ROOF	
●LIGHTNING PROTECTION GROUND RODGROUND●POKETHRU●UTILITY POWER POLESEE PLANS●TRANSFORMERSEE PLANS●TRANSFORMERSEE PLANS●TRANSFORMERSEE PLANS●MERGENCY GENERATORSEE PLANS●GENERATOR ANNUNCIATOR PANELSEE PLANS●AUTOMATIC TRANSFER SWITCHSEE PLANS●CABLE TRAY●MAIN DISTRIBUTION POWER PANEL●●PANEL BOARD, SURFACE6-6" TO TOP●PANEL BOARD, RECESSED6-6" TO TOP					$\langle \overline{0} \rangle$	LIGHTNING PROTECTION BOND PLATE		
○POKETHRUI●UTILITY POWER POLESEE PLANS●TRANSFORMERSEE PLANS○TRANSFORMERSEE PLANS○EMERGENCY GENERATORSEE PLANS○EMERGENCY GENERATORSEE PLANS○GENERATOR ANNUNCIATOR PANELSEE PLANS○AUTOMATIC TRANSFER SWITCHSEE PLANS○CABLE TRAYI●PANEL BOARD, SURFACE6-6" TO TOP●PANEL BOARD, SURFACE6-6" TO TOP						LIGHTNING PROTECTION GROUND ROD	GROUND	
 UTILITY POWER POLE UTILITY POWER POLE TRANSFORMER SEE PLANS TRANSFORMER SEE PLANS TRANSFORMER SEE PLANS EMERGENCY GENERATOR SEE PLANS GEAP GENERATOR ANNUNCIATOR PANEL SEE PLANS GEAP AUTOMATIC TRANSFER SWITCH SEE PLANS CABLE TRAY CABLE TRAY					0	POKETHRU		
Image: Manual Set PlansSet PlansImage: Manual Set Plans<					\oplus	UTILITY POWER POLE	SEE PLANS	
TRANSFORMERSEE PLANSImage: Set PlansSet PlansImage:					М	TRANSFORMER	SEE PLANS	
Image: Set PlansSet PlansImage: GAPGENERATOR ANNUNCIATOR PANELSEE PLANSImage: GAPAUTOMATIC TRANSFER SWITCHSEE PLANSImage: CABLE TRAYSet PlansSet PlansImage: Main Distribution Power PanelImage: Cable trayImage: Cable trayImage: Panel Board, Surface6'-6" TO TOPImage: Panel Board, Recessed6'-6" TO TOP					Ţ	TRANSFORMER	SEE PLANS	
GAPGENERATOR ANNUNCIATOR PANELSEE PLANSGATSAUTOMATIC TRANSFER SWITCHSEE PLANSATSAUTOMATIC TRANSFER SWITCHSEE PLANSCABLE TRAYCABLE TRAYImage: Cable transmember of the transmember of transmember of the transmember of the transmember of the transmember of transmember of transmember of the transmember of					G	EMERGENCY GENERATOR	SEE PLANS	
ATSAUTOMATIC TRANSFER SWITCHSEE PLANSCABLE TRAYCABLE TRAYCMAIN DISTRIBUTION POWER PANELCPANEL BOARD, SURFACE6'-6" TO TOPPANEL BOARD, RECESSED6'-6" TO TOP					GAP	GENERATOR ANNUNCIATOR PANEL	SEE PLANS	
CABLE TRAYCABLE TRAYMAIN DISTRIBUTION POWER PANELPANEL BOARD, SURFACE6'-6" TO TOPPANEL BOARD, RECESSED6'-6" TO TOP					ATS	AUTOMATIC TRANSFER SWITCH	SEE PLANS	
MAIN DISTRIBUTION POWER PANELMAIN DISTRIBUTION POWER PANELPANEL BOARD, SURFACE6'-6" TO TOPPANEL BOARD, RECESSED6'-6" TO TOP						CABLE TRAY		
PANEL BOARD, SURFACE6'-6" TO TOPPANEL BOARD, RECESSED6'-6" TO TOP						MAIN DISTRIBUTION POWER PANEL		
PANEL BOARD, RECESSED 6'-6" TO TOP						PANEL BOARD, SURFACE	6'-6" TO TOP	
						PANEL BOARD, RECESSED	6'-6" TO TOP	

	LIGHTING SYMBOL SCH	EDULE	
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
0	2x4 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x4 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x4 LINEAR CRITICAL LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
0	2x2 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR CRITICAL LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
$\overline{\bigcirc}$	RECESSED LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED EMERGENCY LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED WALL WASH LIGHT FIXTURE	CEILING	(1) (3)
\bigcirc	CEILING LIGHT FIXTURE	CEILING	(1) (2)
\odot	PENDANT/CHANDELIER LIGHT FIXTURE	SUSPENDED	(1) (2) (3)
Ю	WALL LIGHT FIXTURE, SURFACE	AS NOTED	(1) (2)
$\overline{\bigcirc}$	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)
0-	AREA LIGHT FIXTURE	POLE	(1) (2)
0	BOLLARD LIGHT	GROUND	
-•	BOLLARD LIGHT, POLE TOP AREA LIGHT	POLE	(1) (2)
Η	EXIT SIGN, WALL, ARROW INDICATES DIRECTION	7'-6"	(1) (2) (4) (5)
\bigotimes	EXIT SIGN, ARROW INDICATES DIRECTION	CEILING	(1) (4) (5)
9.D	EMERGENCY LIGHT FIXTURE, WALL	7'-6"	(1) (2)
(P)	PHOTO-ELECTRIC CELL	AS NOTED	
(PP)	POWER PACK	CEILING	
(SP)	SLAVE PACK	CEILING	
(MP)	MINI POWER PACK	CEILING	
(RC)	ROOM CONTROLLER	CEILING	
ECU	EMERGENCY CONTROL UNIT	CEILING	
	DUAL TECHNOLOGY VACANCY SENSOR	CEILING	(7)
	DUAL TECHNOLOGY VAC. SENSOR, WALL	AS NOTED	(7)
H	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 1-BUTTON	4'-0"	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH WITH DIMMER,	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"	
\$ ²	DOUBLE POLE, SINGLE THROW SWITCH	4'-0"	
\$ ³	THREE WAY SWITCH	4'-0"	
3 Sa	THREE WAY SWITCH ATTRIBUTE SIGNIFIES FIXTURE	4'-0"	
\$ ⁴	FOUR WAY SWITCH	4'-0"	
\$\$	DUAL LEVEL SWITCH BANK	4'-0"	
Ŝ	DIMMER SWITCH	4'-0"	
• \$	LOW VOLTAGE SWITCH	4'-0"	
\$ ^K	KEYED SWITCH, SINGLE POLE	4'-0"	(15)
\$ ^T	7-DAY TIMER SWITCH, SINGLE POLE	4'-0"	(15)
 TP	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 SYMBO	L SCHEDL	ILE
\bigtriangledown	TELEPHONE OUTLET, SINGLE PORT	18"	
$\overline{\forall}$	TELEPHONE OUTLET, CUSTOM HEIGHT		(6)

\bigtriangledown	TELEPHONE OUTLET, SINGLE PORT	18"	
\forall	TELEPHONE OUTLET, CUSTOM HEIGHT		(6)
▼	DATA OUTLET, DUAL PORT	18"	
₹	DATA OUTLET, CUSTOM HEIGHT		(6)
$\mathbf{\Lambda}$	DUAL DATA AND SINGLE TELEPHONE PORT	18"	
\mathbf{A}	DUAL DATA AND SINGLE TELEPHONE PORT, CUSTOM HEIGHT		(6)
$\mathbf{\nabla}^{\#}$	DATA OUTLET, ATTRIBUTE SIGNIFIES PORT QUANTITY	18"	
\bigtriangledown	TELEPHONE OUTLET, SINGLE PORT, FLOOR MOUNTED	FLOOR	
	DATA OUTLET, DUAL PORT, FLOOR MOUNTED	FLOOR	
	TELEVISION OUTLET	AS NOTED	(6) (11)
Ĩ	CEILING WI-FI ACCESS POINT	CEILING	
	MAIN TELEPHONE BOARD	6'-6" TO TOP	
MDF	MAIN DISTRIBUTION FRAME	6'-6" TO TOP	
IDF	INTERMEDIATE DISTRIBUTION FRAME	6'-6" TO TOP	

			ABBREVIATIONS		
A	AMPS	EX	EXISTING TO REMAIN	PC	PLUMBING CONTRACT
AFC	AVAILABLE FAULT CURRENT	FMC	FLEXIBLE METAL CONDUIT	POC	POINT OF CONNECTIO
AFF	ABOVE FINISHED FLOOR	GC	GENERAL CONTRACTOR	POS	POINT OF SALES
AFG	ABOVE FINISHED GRADE	GEC	GROUND ELECTRICAL	(R)	REVISED
AIC	AMPS INTERRUPTING		CONDUCTOR AT SES	R	RELOCATED
	CAPACITY	GFCI	GROUND FAULT CIRCUIT	RX	RECEIVER
AWG	AMERICAN WIRE GAUGE		INTERRUPTER	RM	ROOF MOUNTED
В	BATTERY	GFEP	GROUND FAULT EQUIPMENT	RMC	RIGID METALLIC CON
BC	BARE COPPER		PROTECTOR	RNC	RIGID NON-METALLIC
BFC	BELOW FINISHED CEILING	GND	GROUND		CONDUIT
BFG	BELOW FINISHED GRADE	IMC	INTERMEDIATE METAL CONDUIT	SBJ	SYSTEM BONDING JUI
С	CONDUIT	IG	ISOLATED GROUND	SCA	SHORT CIRCUIT AMPE
со	CARBON MONOXIDE	KCMIL	1000 CIRCULAR MILS (MCM)	ΤХ	TRANSMITTER
СТ	CURRENT TRANSDUCER	LF	LOW FREQUENCY, 520 HZ	тс	TEMPERATURE CONT
CU	COPPER MATERIAL	LFMC	LIQUID-TIGHT FLEXIBLE METAL		CONTROLLER
(D)	DEMOLISH		CONDUIT	TR	TAMPERPROOF
DÉD	DEDICATED	LFNC	LIQUID-TIGHT FLEXIBLE NON-	UG	UNDERGROUND
DFA	DROP FROM ABOVE		METAL CONDUIT	UNO	UNLESS NOTED
(E)	EXISTING TO REMAIN	МС	MECHANICAL CONTRACTOR		OTHERWISE
ËĊ	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	VA	VOLT/AMPS
EF	EXHAUST FAN	N1	NEMA 1	VIF	VERIFY IN FIELD
EM	EMERGENCY/EGRESS	N3R	NEMA 3R	W	WATTS
EMT	ELECTRICAL METALLIC	(N)	NEW	WP	WEATHERPROOF/NEM
	TUBING	ŇĹ	NIGHT LIGHT, BYPASS LOCAL	XP	EXPLOSION PROOF
ENT	ELECTRICAL NON-METALLIC		SWITCHING	XR	EXISTING TO BE REMO
	TUBING				
ER	EXISTING TO BE RELOCATED				

THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS

GENERAL NOTES

- 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 CAN 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 IT'S PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE. THE ARCHITECTURAL AND MECHANICAL DI AND ADD CONFIRMED
- 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 IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
 NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE
- 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.
 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. 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 TELE/DATA ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS
- AS NECESSARY TO LAND ALL NEW TELE/DATA 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 DIAGRAMATIC, 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 FACEPLATE 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 2#12(CU,THHN)+1#12(CU,THHN)GND IN 3/4" 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 LOCATIONS 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, UN-NEEDED 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 CONTRACTOR'S 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. 1. 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. LABELS 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 TELE/DATA/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
- . FROVIDE A DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT. SHARED NEUTR NOT ALLOWED UNLESS NOTED OTHERWISE.

ELECTRICAL SHEET INDEX

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PA#: 1623597 Qate: 6/6/2025

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

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

DIVISION OF OCCUPATIONAL & **PROFESSIONAL LICENSES**

DOPL

ELECTRICAL SPECIFICATIONS FIRE ALARM

3.1 EXAMINATION

- EXAMINE AREAS AND CONDITIONS FOR COMPLIANCE WITH REQUIREMENTS FOR VENTI TEMPERATURE. HUMIDITY. AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE 1. VERIFY THAT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR ENVIRONMENTAL BEEN PERMANENTLY ESTABLISHED IN SPACES WHERE EQUIPMENT AND WIRING
- BEFORE INSTALLATION BEGINS. EXAMINE ROUGHING-IN FOR ELECTRICAL CONNECTIONS TO VERIFY ACTUAL LOCATIONS BEFORE INSTALLATION. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN
- 3.2 EQUIPMENT INSTALLATION COMPLY WITH NFPA 72, NFPA 101, AND REQUIREMENTS OF AUTHORITIES HAVING JURIS INSTALLATION AND TESTING OF FIRE-ALARM EQUIPMENT. INSTALL ALL ELECTRICAL WIF WITH REQUIREMENTS IN NFPA 70 INCLUDING, BUT NOT LIMITED TO, ARTICLE 760, "FIRE
- DEVICES PLACED IN SERVICE BEFORE ALL OTHER TRADES HAVE COMPLETED CLI REPLACED. 2. DEVICES INSTALLED BUT NOT YET PLACED IN SERVICE SHALL BE PROTECTED FRO
- DUST, DEBRIS, DIRT, MOISTURE, AND DAMAGE ACCORDING TO MANUFACTURER'S INSTRUCTIONS. CONNECTING TO EXISTING EQUIPMENT: VERIFY THAT EXISTING FIRE-ALARM SYSTEM IS
- BEFORE MAKING CHANGES OR CONNECTIONS. CONNECT NEW EQUIPMENT TO EXISTING CONTROL PANEL IN EXISTING PART OF CONNECT NEW EQUIPMENT TO EXISTING MONITORING EQUIPMENT AT THE SUPE EXPAND, MODIFY, AND SUPPLEMENT EXISTING [CONTROL] [MONITORING] EQUIPM TO EXTEND EXISTING [CONTROL] [MONITORING] FUNCTIONS TO THE NEW POINTS. COMPONENTS SHALL BE CAPABLE OF MERGING WITH EXISTING CONFIGURATION
- DEGRADING THE PERFORMANCE OF EITHER SYSTEM. INSTALL WALL-MOUNTED EQUIPMENT, WITH TOPS OF CABINETS NOT MORE THAN 78 INC FINISHED FLOOR.
- 1. COMPLY WITH REQUIREMENTS FOR SEISMIC-RESTRAINT DEVICES SPECIFIED IN S "SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS." MANUAL FIRE-ALARM BOXES:
- 1. INSTALL MANUAL FIRE-ALARM BOX IN THE NORMAL PATH OF EGRESS WITHIN 60 IN DOORWAY. MOUNT MANUAL FIRE-ALARM BOX ON A BACKGROUND OF A CONTRASTING COLOF THE OPERABLE PART OF MANUAL FIRE-ALARM BOX SHALL BE BETWEEN 42 INCHE
- ABOVE FLOOR LEVEL. ALL DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT UN INDICATED. SMOKE- OR HEAT-DETECTOR SPACING:
- COMPLY WITH THE "SMOKE-SENSING FIRE DETECTORS" SECTION IN THE "INITIATION OF A SECTION OF A SECT CHAPTER IN NFPA 72, FOR SMOKE-DETECTOR SPACING. COMPLY WITH THE "HEAT-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING
- CHAPTER IN NFPA 72, FOR HEAT-DETECTOR SPACING.
- SMOOTH CEILING SPACING SHALL NOT EXCEED 30 FEET. SPACING OF DETECTORS FOR IRREGULAR AREAS, FOR IRREGULAR CEILING CONS FOR HIGH CEILING AREAS SHALL BE DETERMINED ACCORDING TO ANNEX A IN NFF 5. HVAC: LOCATE DETECTORS NOT CLOSER THAN 36 INCHES FROM AIR-SUPPLY DIF
- AIR OPENING. 6. LIGHTING FIXTURES: LOCATE DETECTORS NOT CLOSER THAN 12 INCHES FROM AN LIGHTING FIXTURE AND NOT DIRECTLY ABOVE PENDANT MOUNTED OR INDIRECT INSTALL A COVER ON EACH SMOKE DETECTOR THAT IS NOT PLACED IN SERVICE DURIN
- COVER SHALL REMAIN IN PLACE EXCEPT DURING SYSTEM TESTING. REMOVE COVER PI TURNOVER. DUCT SMOKE DETECTORS: COMPLY WITH NFPA 72 AND NFPA 90A. INSTALL SAMPLING T
- EXTEND THE FULL WIDTH OF DUCT. TUBES MORE THAN 36 INCHES LONG SHALL BE SUP ENDS. 1. DO NOT INSTALL SMOKE DETECTOR IN DUCT SMOKE-DETECTOR HOUSING DURING
- INSTALL DETECTOR ONLY DURING SYSTEM TESTING AND PRIOR TO SYSTEM TURN AIR-SAMPLING SMOKE DETECTORS: IF USING MULTIPLE PIPE RUNS, THE RUNS SHALL BE BALANCED.
- ELEVATOR SHAFTS: COORDINATE TEMPERATURE RATING AND LOCATION WITH SPRINKI LOCATION. SINGLE-STATION SMOKE DETECTORS: WHERE MORE THAN ONE SMOKE ALARM IS INST
- DWELLING OR SUITE, THEY SHALL BE CONNECTED SO THAT THE OPERATION OF ANY SM CAUSES THE ALARM IN ALL SMOKE ALARMS TO SOUND.
- REMOTE STATUS AND ALARM INDICATORS: INSTALL IN A VISIBLE LOCATION NEAR EACH SPRINKLER WATER-FLOW SWITCH, AND VALVE-TAMPER SWITCH THAT IS NOT READILY NORMAL VIEWING POSITION.
- AUDIBLE ALARM-INDICATING DEVICES: INSTALL NOT LESS THAN 6 INCHES BELOW THE BELLS AND HORNS ON FLUSH-MOUNTED BACK BOXES WITH THE DEVICE-OPERATING ME CONCEALED BEHIND A GRILLE. INSTALL ALL DEVICES AT THE SAME HEIGHT UNLESS OTI INDICATED.
- VISIBLE ALARM-INDICATING DEVICES: INSTALL ADJACENT TO EACH ALARM BELL OR ALA LEAST 6 INCHES BELOW THE CEILING. INSTALL ALL DEVICES AT THE SAME HEIGHT UNLE INDICATED.
- DEVICE LOCATION-INDICATING LIGHTS: LOCATE IN PUBLIC SPACE NEAR THE DEVICE TH ANTENNA FOR RADIO ALARM TRANSMITTER: MOUNT TO BUILDING STRUCTURE WHERE MOUNTING ARRANGEMENT AND SUBSTRATE CONNECTION THAT RESISTS [100-MPH (160 VALUE> WIND LOAD WITH A GUST FACTOR OF 1.3 WITHOUT DAMAGE.
- CONDUCTORS: PROVIDE MINIMUM #14 AWG COPPER CONDUCTORS. SHIELDED AND/OF CONDUCTORS SHALL BE PROVIDED PER THE MANUFACTURER'S INSTRUCTIONS
- OVERCURRENT PROTECTION DEVICE: CIRCUIT BREAKERS FEEDING THE FIRE ALARM C OTHER FIRE ALARM SYSTEM DEVICES SHALL BE PAINTED RED AND SHALL BE LABELED SYSTEM - DO NOT TURN OFF." 3.3 PATHWAYS
- PATHWAYS SHALL BE INSTALLED IN EMT. MINIMUM SIZE SHALL BE 3/4". EXPOSED EMT AND JUNCTION BOXES SHALL BE PAINTED RED ENAMEL.
- 3.4 CONNECTIONS
- FOR FIRE-PROTECTION SYSTEMS RELATED TO DOORS IN FIRE-RATED WALLS AND PART DOORS IN SMOKE PARTITIONS, COMPLY WITH REQUIREMENTS IN SECTION 087100 "DOOI CONNECT HARDWARE AND DEVICES TO FIRE-ALARM SYSTEM. VERIFY THAT HARDWARE AND DEVICES ARE LISTED FOR USE WITH INSTALLED FIR
- BEFORE MAKING CONNECTIONS. MAKE ADDRESSABLE CONNECTIONS WITH A SUPERVISED INTERFACE DEVICE TO THE F AND SYSTEMS. INSTALL THE INTERFACE DEVICE LESS THAN 36 INCHES FROM THE DEVICE MAKE AN ADDRESSABLE CONFIRMATION CONNECTION WHEN SUCH FEEDBACK IS AVAIL DEVICE OR SYSTEM BEING CONTROLLED.
- 1. ALARM-INITIATING CONNECTION TO SMOKE-CONTROL SYSTEM (SMOKE MANAGEM FIREFIGHTERS' SMOKE-CONTROL SYSTEM PANEL. ALARM-INITIATING CONNECTION TO STAIRWELL AND ELEVATOR-SHAFT PRESSURI. SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED HVAC DUCT SYSTEMS.
- MAGNETICALLY HELD-OPEN DOORS.
- 5. ELECTRONICALLY LOCKED DOORS AND ACCESS GATES.
- ALARM-INITIATING CONNECTION TO ELEVATOR RECALL SYSTEM AND COMPONENT ALARM-INITIATING CONNECTION TO ACTIVATE EMERGENCY SHUTOFFS FOR GAS A SUPERVISORY CONNECTIONS AT VALVE SUPERVISORY SWITCHES.
- 9. SUPERVISORY CONNECTIONS AT LOW-AIR-PRESSURE SWITCH OF EACH DRY-PIPE SYSTEM.
- 10. SUPERVISORY CONNECTIONS AT ELEVATOR SHUNT-TRIP BREAKER. 11. DATA COMMUNICATION CIRCUITS FOR CONNECTION TO MASS NOTIFICATION SYST
- 12. SUPERVISORY CONNECTIONS AT FIRE-EXTINGUISHER LOCATIONS. 13. SUPERVISORY CONNECTIONS AT FIRE-PUMP POWER FAILURE INCLUDING A DEAD
- REVERSAL CONDITION. 14. SUPERVISORY CONNECTIONS AT FIRE-PUMP ENGINE CONTROL PANEL.
- 3.5 IDENTIFICATION IDENTIFY SYSTEM COMPONENTS, WIRING, CABLING, AND TERMINALS. COMPLY WITH RE IDENTIFICATION SPECIFIED IN SECTION 26 0553 "IDENTIFICATION FOR ELECTRICAL SYST
- INSTALL FRAMED INSTRUCTIONS IN A LOCATION VISIBLE FROM FIRE-ALARM CONTROL U 3.6 GROUNDING GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE
- GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT. GROUND SHIELDED CABLES AT THE CONTROL PANEL LOCATION ONLY. INSULATE SHIEL LOCATION.

	3.7 FIELD QUALITY CONTROLA. FIELD TESTS SHALL BE WITNESSED BY AUTHORITIES HAVING JURISDICTION.	ELECTRICAL SPECIFICATIONS
	B. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TEST AND INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS.	1. CONTRACTOR SHALL PROVIDE ALL LABOR. MATERIALS, AND NECESSARY EQUIPMENT TO PERFORM ALL
LATION, E WORK.	 D. PERFORM THE FOLLOWING TESTS AND INSPECTIONS: 1. VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING. 	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
CONDITIONS HAVE ARE INSTALLED,	a. INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY THE "COMPLETION DOCUMENTS, PREPARATION"	AND COMMUNICATION WIRES TO EQUIPMENT ALLOWING A SAFE REMOVAL OF EQUIPMENT. ABANDONED WIRES/CABLING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE OR TO NEAREST UPSTREAM
S OF CONNECTIONS	 TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS" CHAPTER IN NFPA 72. b. COMPLY WITH THE "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION 	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
N CORRECTED.	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	FINISHED SURFACE. 2. DEMOLITION WORK INDICATED IN DRAWINGS IS BASED ON CASUAL FIELD OBSERVATION AND AS-BUILT
DICTION FOR RING TO COMPLY	 313TEM 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 	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
ALARM SYSTEMS." EANUP SHALL BE	WRITTEN INSTRUCTIONS. PERFORM THE TEST USING A PORTABLE SOUND-LEVEL METER COMPLYING WITH TYPE 2 REQUIREMENTS IN ANSI S1.4.	DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.REPORT DISCREPANCIES TO ENGINEER PRIOR TO DISTURBING ANY EXISTING INSTALLATION. THE CONTRACTOR
OM CONSTRUCTION	 TEST AUDIBLE APPLIANCES FOR THE PRIVATE OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. 	 ACCEPTS THE EXISTING CONDITIONS OF PROJECT BY STARTING DEMOLITION WORK. 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
OPERATIONAL	5. TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. 6. EACTORY AUTHORIZED SERVICE REPRESENTATIVE SHALL PREPARE THE "FIRE ALARM SYSTEM	TO KEEP. SALVAGED ITEMS TO BE RETURNED TO THE OWNER SHALL BE CAREFULLY REMOVED, BOXED, AND DELIVERED TO THE OWNER'S STORAGE SPACE.
THE BUILDING.	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	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
RVISING STATION. IENT AS NECESSARY	"INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72. E. REACCEPTANCE TESTING: PERFORM REACCEPTANCE TESTING TO VERIFY THE PROPER OPERATION OF	THE PROJECT. 5. ANY WIRES AND CONDUITS TO BE REUSED IN NEW CONSTRUCTION SHALL BE INSPECTED AND
WITHOUT	ADDED OR REPLACED DEVICES AND APPLIANCES. F. FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.	 6. WHERE EXISTING WORK TO REMAIN IN SERVICE IS DAMAGED, RESTORE TO ORIGINAL CONDITION USING NEW PRODUCTS OF FOUAL QUALITY AND CAPACITY
CHES ABOVE THE	 BREPARE 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 	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.
SECTION 260548.16	INSPECTIONS. I. ANNUAL TEST AND INSPECTION: ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION, TEST FIRE-ALARM	B. TURN OFF UNUSED CIRCUIT BREAKERS AT THE PANEL AND LABEL AS "SPARE" ON CIRCUIT DIRECTORY.
NCHES OF THE EXIT	SYSTEM COMPLYING WITH VISUAL AND TESTING INSPECTION REQUIREMENTS IN NFPA 72. USE FORMS DEVELOPED FOR INITIAL TESTS AND INSPECTIONS.	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
R. ES AND 48 INCHES	 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 	E. WHERE EXISTING DEVICES OR EQUIPMENT OBSTRUCT THE NEW CONSTRUCTION, RELOCATE, REWIRE, AND RECONNECT AS REQUIRED.
NLESS OTHERWISE	MANUFACTURER'S DESIGNATED SERVICE ORGANIZATION. INCLUDE PREVENTIVE MAINTENANCE, REPAIR OR REPLACEMENT OF WORN OR DEFECTIVE COMPONENTS, LUBRICATION, CLEANING, AND ADJUSTING AS	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
ING DEVICES"	REQUIRED FOR PROPER OPERATION. PARTS AND SUPPLIES SHALL BE MANUFACTURER'S AUTHORIZED REPLACEMENT PARTS AND SUPPLIES.	SECURE LOCATION FOR REINSTALL. CLEAN DEVICES/FIXTURES. RECONNECT DEVICES/FIXTURES AFTER SURFACE IS REFINISHED. PROVIDE BOX EXTENDERS, ETC. AS REQUIRED FOR A FLUSH
G DEVICES"	 INCLUDE VISUAL INSPECTIONS ACCORDING TO THE "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 	ADDITIONAL SUPPORTS AS REQUIRED.
STRUCTION, AND	 PERFORM TESTS IN THE "TEST METHODS" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION TESTING AND MAINTENANCE" CHAPTER IN NEPA 72 	ADEQUATE SPACE TO ACCOMMODATE NEW CIRCUITS. NOTIFY ENGINEER IF INDICATED EXISTING PANEL HAS INSUFFICIENT SPACE AND PROVIDE RECOMMENDATION FOR NEAREST PANEL WITH
PA 72. FUSER OR RETURN-	 PERFORM TESTS PER THE "TESTING FREQUENCIES" TABLE IN THE "TESTING" PARAGRAPH OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72. 	AVAILABLE SPACE THAT FEEDS SIMILAR LOAD TYPES FOR APPROVAL. H. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO
NY PART OF A	3.9 SOFTWARE SERVICE AGREEMENT A. COMPLY WITH UL 864.	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
IG CONSTRUCTION. RIOR TO SYSTEM	B. TECHNICAL SUPPORT: BEGINNING AT SUBSTANTIAL COMPLETION, SERVICE AGREEMENT SHALL INCLUDE SOFTWARE SUPPORT FOR TWO YEARS. C. LIPGRADE SERVICE: AT SUBSTANTIAL COMPLETION, LIPDATE SOFTWARE TO LATEST VERSION, INSTALL	J. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
UBES SO THEY	AND PROGRAM SOFTWARE UPGRADES THAT BECOME AVAILABLE WITHIN TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION. UPGRADING SOFTWARE SHALL INCLUDE OPERATING SYSTEM AND NEW OR	K. 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
	REVISED LICENSES FOR USING SOFTWARE. 1. UPGRADE NOTICE: AT LEAST 30 DAYS TO ALLOW OWNER TO SCHEDULE ACCESS TO SYSTEM AND TO	L. CAP AND LABEL ALL EMPTY CONDUITS TO REMAIN.
NOVER. E PNEUMATICALLY	UPGRADE COMPUTER EQUIPMENT IF NECESSARY. 3.10 DEMONSTRATION A TRAIN OWNER'S MAINTENANCE DERSONNEL TO ADJUST OPERATE AND MAINTAIN FIRE ALARM SYSTEM	
LER RATING AND	A. TRAIN OWNERS MAINTENANCE FERSONNEE TO ADJUST, OF ERATE, AND MAINTAINT INCARANING STOTEM.	ELECTRICAL SPECIFICATIONS
SMOKE DETECTOR,	ELECTRICAL SPECIFICATIONS	1. ALL MATERIALS SHALL BE INSTALLED IN A PROFESSIONAL MANNER INDICATIVE OF THE TRADE.
		1 Z. ALL FEINETRATIONS OF THE OUTSIDE WALLS OK KOUF SHALL BE SEALED WITH APPROPRIATE SEALANT
VISIBLE FROM	MATERIALS	 ALL FEINE I RATIONS 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
VISIBLE FROM CEILING. INSTALL ECHANISM	A. GENERAL 1. MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS	 ALL FEINE I RATIONS OF THE OUTSIDE WALLS OR ROOF SHALL BE SEALED WITH APPROPRIATE SEALANT OR CAULK FOR THE PARTICULAR SURFACE INVOLVED. PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE CIRCUIT NUMBER THAT THE RECEPTACLE IS CIRCUITED TO. PROVIDE UPDATED TYPED PANEL SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED
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VISIBLE FROM CEILING. INSTALL ECHANISM HERWISE ARM HORN AND AT LESS OTHERWISE INDICATED. USE OKM/H)] <insert R STRANDED CONTROL PANEL OR "FIRE ALARM ONTROL PANEL OR "FIRE ALARM SOLLOWING DEVICES ICE CONTROLLED. ABLE AT THE OLLOWING DEVICES ICE CONTROLLED. ABLE AT THE INTON SYSTEMS. SPRINKLER TEM. O-PHASE OR PHASE- EQUIREMENTS FOR TEMS." JNIT.</insert 	 MATERIALS A. GENERAL A. GENERAL REGULARLY EVAGAGED IN THE MANUFACTURE OF THE PRODUCT. ULLISTED, AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT. B. RACEWAY ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS. GALVANZED FLEXIBLE STEEL (FNC) OR LIQUID TIGHT STEEL (LFNC) CONDUIT SHALL BE USED FOR CONNECTIONS TO MECHANICAL EQUIPMENT, LUMINARES AND TRANSFORMERS AND AS INDICATED LIQUID TIGHT CONDUIT SHALL BE USED IN EXTERIOR OR DAMP LOCATIONS. SCHEDULE 40 PC (WITH PVC CONTED OR VINY. TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH. SK' CONDUIT SHALL BE THE MINIMM SIZE CONDUIT. OUTDOOR AND WET OR DAMP LOCATIONS. PROVIDE RIGID STEEL CONDUIT. OUTDOOR AND WET OR DAMP LOCATIONS. PROVIDE RIGID STEEL CONDUIT. OUTLET AND JUNCTION BOXES OUTLET AND JUNCTION BOXES BOXES IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LIEST THAN 4 INCRES SQUARE AND 2 IN? DEEP: APPLETION, RACO, OR EQUAL. BOXES SHALL BE COUPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FXTURE STUDS AS REQUIRED. BOXES STALL DE COUPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FXTURE STUDS AS REQUIRED. BOXES STALL CONTAIN POWER, DATA OR BOTH AS CALLED FOR ON THE PLANS. ACTIVATION COVER: RIGO DEGREE COVER PORET BOXES SHALL BE FACTORY -FARRICATED AND COVER SHALL CONTAIN POWER, DATA OR BOTH AS CALLED FOR ON THE PLANS. ACTIVATION COVER: RIGO DEGREE COVER OPENICS TO LOGOS ERVICE-OUTLET ASSEMBLY. SERVICE-OUTLET ASSEMBLY - RECOGES DYCE WITH HOUS SIMPLE ARARCAS. SPRING, CABLES ARE EXISTING TO REDUCE TRP PHALE HARCHING BERS FOR TILE APPLICATION. COVER: RIGO DEGREE COVER PORET BOXES SHALL BE FACTORY -FARRICATED AND WIRED ASSEMBLY OF BELOWFLOOR JUNCTION SOX WITH MULTICHANNELED. THROUGH-FLOOR RACE WA	ALL FLEETRATURES OF THE CURSIDLE WALLS UK RUSUE SHALL BE SEALED WITH APPROPRIATES IDENTIFYING THE OR CAUKE OR THE PARTICULAR SURFACE WOOLVED PROVIDE CLEAR, TYPED, PATOLEN LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE CIRCUIT NUMBER THAT THE RECEPTACLES IS CIRCUITED TO. PROVIDE UPDATED TYPED PANELS SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED. RACEWAYS RACEWAYS RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE PARALLE WITH SUPPORTING WALLS. BEAMS, AND CELLINGS AND WITH EACH OTHER CLOSER THANG INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME. RACEWAYS HALLE NOT SUPPORTING WALLS. BEAMS, AND CELLINGS AND WITH EACH OTHER CLOSER THANG INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL BE AND THE CLOSER THANG INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND AND FTER CUTTING AND E TMADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM. CONTINUOUS SHOM OUTET TO OUTLET, CABINET. BOX OR FITTINGS, AND SHALL BE WECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUTY FROM ONE TO ANOTHER THE STATE STALE. MATE NOT BUTTIN THE CENTER OR ANTICATARY SHALL BLANG THE SIZE OF THE CONDUIT. THO ONE OR TWO HOLS STAMPED STEEL OR MALLEBALE RICON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR SUPPORTING CONDUIT. THE SIZE OF STATEP SHALL MATE THE CONDUCT. THE OXID. HE CANDUIT. NALLS, PERFORATED STRAP, OR PLUMBERS TAPE SHALL NOT EL USED FOR SUPPORT OT RACEWAY. PROVIDE UPART CORD MARKAYS WITHOUT CONDUCTS SHALES EXPORTED WITH AND. SUPPORT ON CONDUCT TOR SHALLS EL MECHANS. FOUR 9D DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES. CONDUCTORS 1. ALL CONDUCTORS SHALL BE INSTALLED IN CONDULT AND COLOR CODED AS FOLLOWS: PHASE A BLACK BLACK BLACK BROWN PHASE A BLACK BLACK MORY OR THE SUSAL AND ACOUNTS. PHASE A BLACK BLACK BROWN PHASE C A BLACK
VISIBLE FROM CEILING. INSTALL ECHANISM HERWISE ARM HORN AND AT ESS OTHERWISE ARM HORN AND AT ESS OTHERWISE ARM HORN AND AT ESS OTHERWISE ARM HORN AND AT CONTROL PANEL OR "FIRE ALARM TITIONS AND TO OR HARDWARE." RE-ALARM SYSTEM COLLOWING DEVICES ICE CONTROLLED. ABLE AT THE MENT) AT COLLOWING SYSTEMS. ITS. AND FUEL SUPPLIES. E SPRINKLER TEM. D-PHASE OR PHASE- EQUIREMENTS FOR TEMS." JNIT. 1100. INSTALL A LD AT DEVICE	 MATERIALS A GENERAL REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. ULLISTED AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT. RACEWAY ELECTRICAL METALLIC TUBING (ENT) SHALL BE USED IN INTERIOR DRY LOCATIONS. GALVANIZED FLEXIBLE STEEL (FAC) OR LIQUID TICHT STEEL (LIMC) CONDUT SHALL BE USED FOR CONNECTIONS TO MECHANICAL EQUIPMENT, LUMMINES AND TRANSFORMERS AND AS NIDICATED. LIQUID TICHT CONDUIT SHALL BE USED IN INTERIOR DRY LOCATIONS. GALVANIZED FLEXIBLE STEEL (FAC) OR LIQUID TICHT STEEL (LIMC) CONDUIT SHALL BE USED FOR CONNECTIONS TO MECHANICAL EQUIPMENT, LUMMINES AND TRANSFORMERS AND AS NIDICATED. LIQUID TICHT CONDUIT SHALL BE USED IN STEPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH. GATCONDUIT SHALL BE THE MINIMM RIZE CONDUIT. OUTIDOR AND WET OR DAMP LOCATIONS PROVIDE RIGID STEEL CONDUIT. OUTIDOR AND WET OR DAMP LOCATIONS PROVIDE RIGID STEEL CONDUIT. OUTIDOR NAD WET OR DAMP LOCATIONS PROVIDE RIGID STEEL CONDUIT. MILTITINGS ALL HITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS. OUTLET AND JUNCTION BOXES OUTLET AND JUNCTION BOXES DOTTED ROR LICCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL KNOCKOUT TYPEYE NOT LESS THANA INCHES SOUARE AND 21% DEEP, APPLICTOR. BOXES FOR FLOOR OUTLETS SHALL BE UL LISTED FOR USE IN APPLICATION: BOXES STOR LORO OUTLETS SHALL BE UL LISTED FOR USE IN APPLICATION: BOXES STOR FLOOR OUTLETS SHALL BE UL LISTED FOR USE IN APPLICATION: BOXES STOR FLOOR OUTLETS SHALL BE UL SUBTED APPLICATION: BOXES STOR LORO OUTLETS SHALL BE UL SUBTED FOR THE PLANS. ACTIVATION COVER: 180 DEGREE COVER PORTS DAL SAPES FOR TILE APPLICATION: BOXES STRILL CONTAIN POWER, DAT OR BOTH AS CALLED FOR ON THE PLANS.	ALL FOR LINKINGS OF THE CUISIBLE WALLS OF MOUND SHALL BE SPACED WITH APPROVING LEAST, TYPED, PATOLED LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE CIRCUT MUMBER THAT THE RECEPTACLES COVERPLATES IDENTIFYING THE CIRCUTS HAVE BEEN MODIFIED OR CHANGED. RACEWAYS RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED EXPOSED RACEWAY RUNS SHALL BE PARALLE. WITH SUPPORTING WALLS, BEAMS, AND CELLINGS AND WITH EACH OTHER CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL BE THE CONTROL TO THE CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND AND FTER CUITING AND E MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM CONTINUOUS RAND TO ADD TO ADD THE SUCTORY AND FTER CUITING AND SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUTY FOOM ONE TO ANOTHER THE STREAM AND THE SIZE OF THE CONDUCT. THE SIZE OF STANP. PROVIDE STEEL OR MALLEABLE RIGON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIONED FOR SUPPORTING CONDUCT. THE SIZE OF STARP SHALL MATO THE SIZE OF SUPPORT OUT RACE ON SUFFORM CONDUCTORS. FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES. C. CONDUCTORS ALL CONDUCTORS SHALL BE INSTALLED IN CONDULT AND COLOR CODE AS FOLLOWS: PHASE A BLACK BLACK BROWN PHASE A BLACK BROWNER MARE STARP SHALL MATORS OR BOXES
VISIBLE FROM CEILING. INSTALL ECHANISM HERWISE ARM HORN AND AT ESS OTHERWISE INDICATED. USE ONTROL PANEL OR "FIRE ALARM ONTROL PANEL OR "FIRE ALARM TITIONS AND TO OR HARDWARE." RE-ALARM SYSTEM FOLLOWING DEVICES ICE CONTROLLED. ABLE AT THE MENT) AT SIZATION SYSTEMS. TS. AND FUEL SUPPLIES. E SPRINKLER TEM. D-PHASE OR PHASE- EQUIREMENTS FOR TEMS." JNIT. 1100. INSTALL A LD AT DEVICE	 MATERIALS A GENERAL MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL USTED AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT. RACEWAY ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS. GALVANZED PLEXIBLE ELE (FMC) ON LUUDI TIGHT STEEL (LIMIC) CONDUIT OHALL BE USED FOR CONNECTIONS TO MECHANICAL BURGHMAT, LUMMARES AND TRANSFORMERS AND AS INDICATED. LUMITION DOWNLOW THE BE USED IN INTERIOR DRY LOCATIONS. SOLED SHALL BE THE MINIMAR DRY LOCATIONS FOR THE AND AS INDICATED. LUMITION DOWNLOW TO REAL WITH THAT ARE INCOMPT THE BARTH. SOLED SHALL BE THE MINIMAN SIZE CONDUIT. OUTDOOR AND WET OR DAMP LOCATIONS. PROVIDE RIGID STEEL CONDUIT. OUTDOOR AND WET OR DAMP LOCATIONS. PROVIDE RIGID STEEL CONDUIT. CHITTINGS ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS. D. OUTLET AND JUNCTION BOXES BOXES STAIL AND DRY LOCATIONS SHALL BE GALVANZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LESS THAN & INOCHES SQUARE AND 2 187 DEEPI APPLETON, RACO, OR EQUIAL. BOXES STAIL LOCATION PROVER BOXES STAIL LOCATION SHALL BEL LISTED FOR USE IN APPLICATION BOXES BOXES STOR FLOOR OUTLETS SHALL BE LUSTED FOR USE IN APPLICATION. POURED IN FLACE IN CONCRETE BOXES SHALL BE LEGRAND REP TYPE OR APPROVED EQUAL. BOXES STAIL LOCATION PROVER DATA BOAD TO AY THAT AS CALLE DOR NOT THE PARA. SATIVATION COVER. 180 DEGREE COVER OPENING TO LAY FLAT TO REDUCE TRIPPING HAZARDS. SETURG- LOADED SETURG. LOCATION TO MERKE DATA BAS CHILD FOR ON THE PARA. SATIVATION COVER. 180 DEGREE COVER OPENING TO LAY FLAT TO REDUCE TRIPPING HAZARDS. SETURG- LOADED SETURG CONDUCTIONS TO A MINIMUM AND A CONTING HAZARDS. SETURG- CONDUCT LESS STAIL BE EXECUTION TO MENT AND AND	ALL FOR INVIOUS OF THE WORDE WINLE WERKLOWE MALE BE SPALED WITH APPROVIDE SEALAN OR CAULK FOR THE PARTICULARS VERY ENVIOLES (ENVIOLED PROVIDE CLEAR, TYPED, PTOLICULAR SUFFACE WORDE PROVIDE UPDATED TYPED PANELS SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED. RACEWAYS RACEWAYS RACEWAYS RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED, EXPOSED RACEWAY RUNS SHALL BE PARALLE, WITH SUPPORTING WALLS, BEAMS, AND CELLINGS AND WITH EACH OTHER CLOSER THAN 6 IN CHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME. RACEWAYS HALL BIN SUPPORTING WALLS, BEAMS, AND CELLINGS AND WITH EACH OTHER CLOSER THAN 6 IN CHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME. RACEWAYS SHALL BIN BE REMARD ATTER HERAING AND APTER CUTING AND BE MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED. RACEWAYS SHALL BIN STALLED AS A COMPLETE SYSTEM, CONTINUOUS PROM OUTLET TO OUTLET, CARINET, BOX OR FITTINGS, AND SHALL BE WECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUTY FROM ONE OT ANOTHER STATE SHALL MATO THE SIZE OF THE CONDUCT. THADE ONE ON TWO HOLE STAMPED STEEL OR MALLBARE IRON STRAPS (SUCH AS MANUFACTURED BY RACD) DESIGNED FOR SUPPORTING CONDUCT. THE SIZE OF STRAP SHALL MATO THE SIZE OF SUPPORT OF RACEWAY. PROVIDE ONE ON THE SIZE OF RUNNEST THE STAP. THE CONDUCT TORS. CONDUCTORS SHALL BE INSTALLED IN CONDULT AND COLOR CODED SUPPORT OF RACEWAY. PROVED BE AND MAXIMUM BETWEEN TERMINATIONS OR BOXES. CONDUCTORS SHALL BE INSTALLED IN CONDULT AND COLOR CODED AS FOLLOWS: PHASE A BLACK BULKY YELLOW NEUTRAL. WHITE WHITE GREEN GROUND GREEN GREEN GREEN GROUND GREEN GREEN GREEN GREEN DURAGE AND ADVIDUED MAXIMUM BETWEEN TERMINATIONS OR BOXES. CONDUCTORS SHALL BE PROVIDED WHERE INDICATED AND WHERE NECESSARY TO FACILITATE THE PULLING OF CONDUCTORS. TELEPHONE RACEWAYS SHALL BEACEWAYS. DO NOT USE THAE RACEWAY SYSTEM USE APPROVED
VISIBLE FROM CEILING. INSTALL ECHANISM HERWISE ARM HORN AND AT ESS OTHERWISE IEY MONITOR. INDICATED. USE ONTROL PANEL OR "FIRE ALARM ONTROL PANEL OR "FIRE ALARM ONTROL PANEL OR "FIRE ALARM OLLOWING DEVICES ICE CONTROLLED. ABLE AT THE ICANTON SYSTEMS. ITS. AND FUEL SUPPLIES. E SPRINKLER TEM. O-PHASE OR PHASE- EQUIREMENTS FOR TEMS." JNIT. 1100. INSTALL A LD AT DEVICE	 MATERIALS A GENERAL MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS REGULARY, ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND SHALL BE THE LATEST STANDARD DESIGN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT. B. RACEWAY ELECTRICAL METALLO TUBING (ENT) SHALL BE USED IN INTERIOR DRY LOCATIONS. GALVANIZED FLEXBLE STEEL (FMC) OR LIQUID TIONT STELL, LEPAC) CONDUCTS SHALL BE USED FOR CONFECTIONS TO MECHANICAL EDISINENT, LUMINARES AND TOORTOMICS AND AS INDICATED. LINENED TO MECHANICAL EDISINENT, LUMINARES AND TOORTOMICS AND AS INDICATED. LINENED TO MECHANICAL EDISINENT, LUMINARES AND TOORTOMICS AND AS INDICATED. LINENED FOR RUIS THAT ARE IN CONTACT WITH THE EARTH. SOHEDULE AD PRC, WITH PYC COATED OR NUNT. TARE DOUBLE WARPED RIGD STEEL ELBOWS AND TRY CONDUT SHALL BE THE MINIMUM SIZE CONDUIT. OUTDOOR AND WET OR DAMP LOCATIONS. PROVIDE RIGD STEEL CONDUIT. C. FITTINGS ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS. D. OUTLET AND JUNCTION BOXES BOXES SHALL BE COTROL THE PLASTER RINGS, EXTENSION RINGS, AND FITURE STUDS AS RECOURED. BOXES SHALL BE COTROL OTLETS SHALL BE UL ISTED FOR USE IN APPLICATION: POURED IN PLACE IN CONCRETE BOXES SHALL BE LEGRAND RPTYPE OR APROVED EQUAL BOXES SHALL BE COTROL OTLETS SHALL BE UL ISTED FOR USE IN APPLICATION: POURED IN PLACE IN CONCRETE BOXES SHALL BE LEGRAND RPTYPE OR APROVED EQUAL BOXES SHALL BE COTTAIN OWNER DATA ROB THA SCALLED FOR OTHE PLANS. ACTIVATION COVER: 180 DEGREE COVER OPENNO TO LAY FLAT TO REDUCE TRIPPING HAZARDS. SPRING- COLLET SHOLE DOWNED AND LOATION DOWNE THAT DURAL DATA REPORT OF DURAL DATA. SECONDUCT THE LASSEMELY THE ADVIRTURE SCALLED FOR THE PLANS. ACTIVATION COVER: 180 DEGREE COVER OFINING TO LAY FLAT TO REDUCE TRIPPING HAZARDS.	ALL CENE INVITIONS OF THE OUTSIDE WIRLES ON ROADS SHALL BE SAFLED WITH APPROVING IE SEALANI OR CAULK ROT THE PARTICLARS BIRFACE WOLVED. PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTACLES COVERPLATES IDENTFYING THE CROUTD NUMBERT THAT THE RECEPTACLE SCROUTED TO. PROVIDE UPDATED TYPED, PAREL SCHEDULE INDEX FOR ALL PAVELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED. RACEWAYS RACEWAYS RACEWAYS RACEWAYS RACEWAYS RACEWAYS RACEWAYS RACEWAYS RACEWAYS SHALL BUILCONCEALED LINLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL RINGERS TO ANY WATER PRO ON HEATER BY ENSTALLE DAN SHALL NOT FLINKE REPARALLEL WITH SUPPORTING WILLS BEAMS, AND CELINGS AND WITH EACH OTHER CLOSER THAN 6 RRACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET OF THE COUNTION. THE USE OF RINKING THANGES IS PROHIBITED. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET OF THE COUNTION. THE USE OF RANNON STRAPS (SUCH AS MANUPLACTURED BY RACO) DESIGNED FOR SUPPORTING CONDUIT. THE SIZE OF STRAPS SHALL MATCH THE SIZE OF THE CONDUIT. NALLS, PROVIDE 18F POLY FULL CORD IN RACEWAYS WITHOUT CONDUCTORS. FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES. CONDUCTORS LAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT AND COLOR CODED AS FOLLOWS: PHASE A BLACK BLACK BROWN PHASE A BLACK BLO ORNOLET ON THE RECE

WHO

ELECTRICAL SPECIFICATIONS GENERAL

DESCRIPTION

- FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.
- RULES AND REGULATIONS ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFIED.
- 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": PUB. NO. 72E. "AUTOMATIC FIRE DETECTORS". UL (UNDERWRITERS LABORATORIES, INC.). h
- NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION) UBC (UNIFORM BUILDING CODE) AND STANDARD BUILDING CODE.
- IBC (INTERNATIONAL BUILDING CODE) е.
- IFC (INTERNATIONAL FIRE CODE) IECC (INTERNATIONAL ENERGY CONSERVATION CODE)
- IEC (INTERNATIONAL ELECTRICAL CODE) STATE AND
- LOCAL BUILDING AUTHORITY AND CODES NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO VOID ANY OF THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.
- 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.
- WORKMANSHIP AND MATERIALS
- 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. UNLESS OTHERWISE HEREIN AFTER SPECIFIED, 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.
- 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. 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.
- 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.
- DEFINITIONS "PROVIDE" - MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDICATED.
- "FURNISH" MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PROJECT SITE. "INSTALL" - MEANS TO PHYSICALLY INSTALL THE ITEMS IN-PLACE.
- "CONNECT" MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE OPERATING PIECE OF EQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS APPLICABLE.
- "OR EQUIVALENT" MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO BIDDING.
- SUBMITTALS
- 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
 - CIRCUIT BREAKERS (EACH SIZE AND TYPE)
 - SAFETY SWITCHES MOTOR STARTERS
 - THERMAL SWITCHES LIGHT FIXTURES
- THE ABOVE IS A STANDARD SUBMITTAL REQUIREMENT LIST. ELECTRICAL CONTRACTOR SHALL SUBMIT ALL 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.

DOPL

FRE

WITHIN 60"

8.

EXIT

NOTES: 1. THE ELCTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL

TELEVISION OUTLETS WITH THE

ARCHITECT PRIOR TO INSTALLATION. 2. ALL DEVICES SHOWN ON THE DETAIL ARE

FOR REFERENCE OF MOUNTING HEIGHTS

ONLY. THE ELECTRICAL CONTRACTOR

DOPL

DOPL Page Lab

Autodesk Docs://240218 - LCSC N

		CONSTRUCTION	LIGH
	Туре	DESCRIPTION	LAMP
А		2X4 RECESSED TROFFER	LED
Lumi	naire Schedule	General Notes:	
1	REFER TO L	UMINAIRE DESCRIPTION FOR FIXTURE REQUIREMENTS. MANUFACTURE	S MODEL NUMBERS MAY NO
2	REFER TO T	HE ARCHITECTURAL REFLECTED CEILING DRAWINGS FOR EXACT FIXTU	RE LOCATIONS AND CEILING
3	PROVIDE AL	L FIXTURE SUPPORT AND SEISMIC BRACING TO SECURE FIXTURE TO ST	RUCTURE, WALLS AND CEIL
4	PRIOR APPF	ROVAL SHALL BE REQUIRED FOR ALL MANUFACTURES WHO ARE NOT LIS	TED ON THIS SCHEDULE. TH
5	SUBMITTAL	S FOR PRIOR APPROVAL SHALL BE EQUIVALENT TO THE SPECIFIED FIXT	JRES AND REVIEWED AND S
	SUBMITTED	SHALL BE CROSSED OUT. THE ELECTRICAL ENGINEER SHALL BE THE FI	
6	FIXTURES I	HAT HAVE BEEN REVIEWED AND APPROVED AS EQUIVALENT TO THE SPI	ECIFIED FIX FURES SHALL BE
7	ANY ADDITIO	DNAL TIME REQUIRED TO VERIFY IF SUBMITTED FIXTURE MEETS ALL PHO	DTOMETRIC REQUIREMENTS
8	COLOR TEM	PERATURE FOR ALL INTERIOR LUMINAIRES SHALL BE 4000K AND 3000K F	FOR EXTERIOR LUMINAIRES
9	VERIFY EXA	CT FIXTURE FINISHES WITH THE ARCHITECT PRIOR TO SUBMITTAL.	
10	PROVIDE MI	NIMUM 5 YEAR WARRANTY ON ALL LIGHT FIXTURES.	
11	LED LIGHT F	IXTURES SHALL MEET LM79 AND LM80 STANDARDS WITH +50,000 HOUR	L70 LAMP LIFE.
12	LUMINAIRE	SHALL BE LISTED PER NEC 410.6	
13	LUMENS SP	ECIFIED FOR FIXTURES WITH INTEGRAL LEDS ARE TOTAL DELIVERED FI>	(TURE LUMENS
14	FIXTURES I	DENTIFIED AS EMERGENCY ON THE PLANS SHALL BE PROVIDED WITH AN	EMERGENCY BATTERY PAC
15	PROVIDE DI	MMING WIRING TO ACCOMMODATE DIMMING PROTOCOL SPECIFIED ON 3	SCHEDULE FOR A COMPLET
16	PROVIDE BA	TTERY PACK FOR EXIT SIGNS NOT TIED TO AN EMERGENCY CIRCUIT ON	I GENERATOR.

	Bran	Location: Supply From: Mounting: Enclosure:	(E) LC HALL 124 RECESSED NEMA1	25						Volts: Phases: Wires:	208Y/12 3 4	20			1	A.I. M Mai	C. Rating: 10,000 A ains Type: MLO ns Rating: 125.0 A	MPS SYMMETRICAL	
СКТ	Ci (E) RECEPTA	rcuit Description	c	Code	BRK 20 A	P	Size	• A 720	(VA) 4000	В ((VA)	С (VA)	Size P	BRK	Code	Circuit	Description	<u>Ск</u> 2
3	(D) RECEPTA	CLES		2	20 A	1				360	4000	750	400	2	20 A	2			4
5 7	(D) REFRIGER	CLES		2	20 A	1		720	600			750	408	1	20 A 20 A	2	(D) RANGE HOOD I (D) COMPUTER RE	EXHAUST CEPTACLES	8
9	(D) RECEPTA	CLES		2	20 A	1				720	600			1	20 A	2	(D) COMPUTER RE	CEPTACLES	1
11	(E) FIREFLYS	SMOKES		1	20 A	1		100	100			200	1500	1	20 A	2	(D) WATER HEATE		1
15 15	(E) CEILING R	ECEPTACLES		1	20 A	1		100	160	180	700			1	20 A	2 1	(E) AIR COMPRESS	SOR RM B133	-
17 19 21	(E) CEILING R (E) CEILING R (E) CEILING R	ECEPTACLES ECEPTACLES ECEPTACLES		1 1 1	20 A 20 A 20 A	1 1 1		180	2882	180	2882	180	2882	3	30 A	1	(E) MAIL ROOM PA	PER CUTTER	
23	(E) WATER HE	ATER RM B124		1	20 A	1						1000	500	2	30 A	1	(E) CEILING RECE	PTACLES	:
25 27	(E) CEILING R	ECEPTACLES		1	20 A	1		180	500	0	500								
29	SPARE				20 A	1						0	500	2	20 A	1	(E) RM (FOLDER 12	24)	
ode:	1 = (E) CIRCU lassification	T IS TO REMAIN			To	tal A	ected	87 Load	C.3 A	mand Fa	.2 A	Estim	0 A	mand	2 = ([)) CIRC	UIT TO BE DEMOLIS	SHED	
are						28	184 V	A		100.00%	0	2	28184 V	4					
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otes:																			
		Location:	HALL 124								2001/12	20							
: КТ	Ci (E) RECEPTA(Location: Supply From: Mounting: Enclosure:	HALL 124 RECESSED NEMA1	Code	BRK	P	Size	• A	(VA)	Phases: Wires:	3 4 (VA)	с (VA)	Size P	BRK	M Mai Code	ains Type: MLO ns Rating: 125.0 A Circuit	Description	с
:KT 1 3	Ci (E) RECEPTAC (R) MLT Lab 12	Location: Supply From: Mounting: Enclosure: rcuit Description	HALL 124 RECESSED NEMA1	Code 1 2	BRK 20 A 20 A	P 1	Size	• A 720	(VA) 90	Phases: Wires: B (540	3 4 (VA) 90	с ('	VA)	Size P 2	BRK 30 A	M Mai Code	ains Type: MLO ns Rating: 125.0 A Circuit (N) Storage 127 - 20	Description 8V Recept	C
KT 1 3 5 7	Ci (E) RECEPTA((R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12	Location: Supply From: Mounting: Enclosure: rcuit Description CLES 25 - Receptacle 25 - Receptacle	HALL 124 RECESSED NEMA1	Code 1 2 2	BRK 20 A 20 A 20 A	P 1 1 1	Size	• A 720	(VA) 90 720	Phases: Wires: B (540	3 4 (VA) 90	C (1	VA) 180	Size P 2 1	BRK 30 A 20 A	M Mai	ains Type: MLO ns Rating: 125.0 A Circuit (N) Storage 127 - 20 (R) Micro/Equip 126 (B) Micro/Equip 126	Description 8V Recept - Chem Hood	C
KT 1 3 5 7 9	Ci (E) RECEPTAC (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12	Location: Supply From: Mounting: Enclosure: rcuit Description CLES 25 - Receptacle 25 - Receptacle 25 - Receptacle 25 - Receptacle	HALL 124 RECESSED NEMA1	Code 1 2 2 2 2	BRK 20 A 20 A 20 A 20 A 20 A	P 1 1 1 1 1	Size	A 720	(VA) 90 720	Phases: Wires: B (540 1080	3 4 (VA) 90 900	С (1 706	VA) 180	Size P 2 1 1 1 1	BRK 30 A 20 A 20 A 20 A	M Mai	ains Type: MLO ns Rating: 125.0 A Circuit (N) Storage 127 - 20 (R) Micro/Equip 126 (R) Micro/Equip 126 (R) Storage 127 - Re	Description 8V Recept - Chem Hood - Receptacle eceptacle	
KT 1 3 5 7 9	Ci (E) RECEPTAC (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (E) FIREFLYS	Location: Supply From: Mounting: Enclosure: rcuit Description CLES 25 - Receptacle 25 - Receptacle 25 - Receptacle 25 - Receptacle 25 - Receptacle 25 - Receptacle 25 - Receptacle	HALL 124 RECESSED NEMA1 C	Code 1 2 2 2 2 1	BRK 20 A 20 A 20 A 20 A 20 A 20 A 20 A	P 1 1 1 1 1 1 1	Size	A 720	(VA) 90 720	Phases: Wires: B (540 1080	3 4 VA) 90 900	C (1 706 200	VA) 180 180	Size P 2 1 1 1 1 1	BRK 30 A 20 A 20 A 20 A 20 A	M Mai	ains Type: MLO ns Rating: 125.0 A Circuit (N) Storage 127 - 20 (R) Micro/Equip 126 (R) Micro/Equip 126 (R) Storage 127 - Re (R) MLT Lab 125 - F	Description 8V Recept - Chem Hood - Receptacle eceptacle loor Box Lectern	
KT 1 3 5 7 9 1 3 5	Ci (E) RECEPTAC (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (E) FIREFLYS (E) CEILING R (E) CEILING R	Location: Supply From: Mounting: Enclosure: Enclosure: CLES 25 - Receptacle 25 - Receptacle	HALL 124 RECESSED NEMA1 C	Code 1 2 2 2 1 1 1	BRK 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	P 1 1 1 1 1 1 1 1 1	Size	A 720 1080 180	(VA) 90 720 540	Phases: Wires: B (540 1080 1080 180	3 4 VA) 90 900 700	C (1 706 200	VA) 180 180	Size P 2 1 1 1 1 1 1 1 1 1 1	BRK 30 A 20 A 20 A 20 A 20 A 20 A 20 A	Mai Mai Code 3 2 2 2 2 2 2 2 1	ains Type: MLO ns Rating: 125.0 A Circuit (N) Storage 127 - 20 (R) Micro/Equip 126 (R) Micro/Equip 126 (R) Storage 127 - Re (R) MLT Lab 125 - F (R) Micro/Equip 126 (E) AIR COMPRESS	Description 8V Recept - Chem Hood - Receptacle eceptacle loor Box Lectern , Stor. 127 SOR RM B133	
KT 1 3 5 7 9 11 13 15 17	Ci (E) RECEPTAC (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (E) FIREFLYS (E) FIREFLYS (E) CEILING R (E) CEILING R	Location: Supply From: Mounting: Enclosure: Enclosure: CLES 25 - Receptacle 25 - Receptacle	HALL 124 RECESSED NEMA1 C	Code 1 2 2 2 1 1 1 1 1	BRK 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	P 1 1 1 1 1 1 1 1 1 1 1 1	Size	A 720 1080 180	(VA) 90 720 540	Phases: Wires: B (540 1080 1080 180	3 4 (VA) 90 900 700	C (1 706 200 180	VA) 180 180 2882	Size P 2 1 1 1 1 1 1 1 1 1 1	BRK 30 A 20 A 20 A 20 A 20 A 20 A 20 A	M Mai 2 2 2 2 2 2 1	ains Type: MLO ns Rating: 125.0 A Circuit (N) Storage 127 - 20 (R) Micro/Equip 126 (R) Micro/Equip 126 (R) Storage 127 - Re (R) MLT Lab 125 - F (R) Micro/Equip 126 (E) AIR COMPRESS	Description 8V Recept - Chem Hood - Receptacle eceptacle loor Box Lectern , Stor. 127 SOR RM B133	
KT 1 3 5 7 9 11 13 15 17 19 21	Ci (E) RECEPTAC (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (E) FIREFLYS (E) FIREFLYS (E) CEILING R (E) CEILING R (E) CEILING R (E) CEILING R	Location: Supply From: Mounting: Enclosure: Enclosure: CLES 25 - Receptacle 25 - Receptacle	HALL 124 RECESSED NEMA1 C	Code 1 2 2 2 2 1 1 1 1 1 1 1 1	BRK 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	P 1 1 1 1 1 1 1 1 1 1 1 1 1	Size	A 720 1080 180 180	(VA) 90 720 720 540 2882	Phases: Wires: B (540 1080 180 180	3 4 (VA) 90 900 900 700	C (1 706 200 180	VA) 180 180 2882	Size P 2 1 1 1 1 1 1 1 1 3	BRK 30 A 20 A 20 A 20 A 20 A 20 A 20 A 30 A	Mai Mai 2 2 2 2 2 1 1	Ains Type: MLO ns Rating: 125.0 A Circuit (N) Storage 127 - 20 (R) Micro/Equip 126 (R) Micro/Equip 126 (R) Storage 127 - Re (R) MLT Lab 125 - F (R) Micro/Equip 126 (E) AIR COMPRESS (E) MAIL ROOM PA	Description 8V Recept - Chem Hood - Receptacle eceptacle loor Box Lectern , Stor. 127 SOR RM B133 PER CUTTER	
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KT 1 3 5 7 9 11 13 15 15 17 19 21 23 25 27 29	Ci (E) RECEPTA((R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (E) FIREFLYS (E) CEILING R (E) MATER HE (E) CEILING R	Location: Supply From: Mounting: Enclosure: Enclosure: CLES 25 - Receptacle 25 - Cord Reel 25 - Cord Reel	HALL 124 RECESSED NEMA1	Code 1 2 2 2 2 1 1 1 1 1 1 2	BRK 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Size	A 720 1080 180 180 180 180	(VA) 90 90 720 540 540 2882 2882 2882 500 500	Phases: Wires: Wires: 540 540 1080 1080 180 180 180 720	3 4 (VA) 90 900 900 700 2882 2882 500	C (1	VA) 180 180 2882 500	Size P 2 1 1 1 1 1 1 1 3 2 2 2	BRK 30 A 20 A 20 A 20 A 20 A 20 A 30 A 30 A 20 A 20 A 30 A 30 A 30 A 30 A 20 A	Mai Mai 2 2 2 2 2 1 1 1 1 1 1	Ains Type: MLO ns Rating: 125.0 A Circuit (N) Storage 127 - 20 (R) Micro/Equip 126 (R) Micro/Equip 126 (R) Mtro/Equip 126 (R) MLT Lab 125 - F (R) Micro/Equip 126 (E) AIR COMPRESS (E) MAIL ROOM PA (E) CEILING RECEF (E) RM (FOLDER 12	Description 8V Recept - Chem Hood - Receptacle eceptacle loor Box Lectern , Stor. 127 SOR RM B133 PER CUTTER PTACLES 24)	
KT 1 3 5 7 9 1 3 5 7 9 9 1 3 3 5 7 9 9 1 3 3 5 7 9 9 1 3 3 5 7 9 9 1 3 5 7 9 9 1 3 5 7 9 9 1 3 5 7 9 9 1 3 5 5 7 7 9 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 9 1 9 1 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ci (E) RECEPTA((R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (R) MLT Lab 12 (E) FIREFLYS (E) CEILING R (E) MATER HE (E) CEILING R	Location: Supply From: Mounting: Enclosure: Enclosure: CLES 25 - Receptacle 25 - Cord Reel 25 - Cord Reel	HALL 124 RECESSED NEMA1	Code 1 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	BRK 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Size	A 720 1080 180 180 180 180 180	(VA) 90 720 720 540 2882 2882 2882 500 500	Phases: Wires: Wires: 540 540 1080 180 180 180 720 720 770	3 4 (VA) 90 900 900 700 2882 2882 500 6 VA	C (1	VA) 180 180 2882 500 500 VA	Size P 2 1 1 1 1 1 1 1 3 2 2 2	BRK 30 A 20 A 20 A 20 A 20 A 20 A 30 A 30 A 20 A 20 A 30 A 30 A 30 A 30 A 20 A	Mai Mai 2 2 2 2 2 1 1 1 1 1 1	Ains Type: MLO Ins Rating: 125.0 A Circuit (N) Storage 127 - 20 (R) Micro/Equip 126 (R) Micro/Equip 126 (R) MLT Lab 125 - F (R) MLT Lab 125 - F (R) MICRO/Equip 126 (E) AIR COMPRESS (E) MAIL ROOM PA (E) CEILING RECEF (E) RM (FOLDER 12	Description 18V Recept - Chem Hood - Receptacle eceptacle loor Box Lectern , Stor. 127 SOR RM B133 PER CUTTER PTACLES 24)	
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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. ETE DIMMABLE SYSTEM.

DOPL

1 ONE-LINE DIAGRAM EG7-01 NOT TO SCALE

GENERAL NOTES

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

DOPL

KEYED NOTES (#)

1. EXISTING FIXTURES TO BE DEMOLISHED. PROTECT EXISTING CIRCUIT FOR NEW LIGHT FIXTURES. 2. 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 CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING
- CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK. 4. 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. 6. 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.

- THE BOTTOMS OF BEAMS OR JOISTS.
 11. PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- 12. 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. 14. 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

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.

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

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