ADDENDUM NO. 2 to CONTRACT DOCUMENTS

for STEM LAB ALTERATIONS AND RENOVATIONS AT CLEARVIEW REGIONAL MIDDLE SCHOOL

located at 595 Jefferson Road, Mullica Hill, NJ 08062

for the **CLEARVIEW REGIONAL HIGH SCHOOL DISTRICT** Mullica Hill, Gloucester County, New Jersey

Issued: November 1, 2023

FVHD PROJECT #5162C

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INTENT

This Document supersedes all conflicting and contrary information in said Contract Documents. Said documents are hereby amended in certain particulars as described herein after. Unless specifically noted or specified hereinafter all work shall conform to the applicable provisions of the Contract Documents. Bidders shall acknowledge receiving this document and previously issued Addendum No. 1 on the Bid Proposal Form. This Addendum includes five (5) pages and the following:

- 1. Addendum No. 2 (MEP Portion) as prepared by Gillan and Hartmann, Inc., dated 11/01/23, 3-pages.
- 2. Revised Specification Section(s): 08700, 18-pages.
- 3. Revised Drawings:
 - a. Plumbing: P001, P201.
 - b. Mechanical: H101, H102, H201, H202.
 - c. Electrical: E001, E101, E201, E202, E701.
- 4. Revised Drawing:
 - a. Architectural: A301.

REQUESTS FOR INFORMATION (RFI'S)

1. <u>Question</u>: Please provide further detail regarding the Structural Steel for the Duct Openings from the Roof, such what the existing framing is, the size of the openings, locations, do these openings span more than one bay of existing framing, etc.

<u>Response</u>: The location of the openings are the responsibility of the contractor to coordinate and verify in field. See "Typical Opening Detail at Roof Under New HVAC Curb" on drawing A301 for new framing requirements.

2. <u>Question</u>: They show a typical detail for a roof frame, but don't show where the openings are located.

<u>Response</u>: Location of the openings are the responsibility of the contractor to coordinate and verify in field with roof and mechanical plans. Refer to drawing A301 for approximate location of the openings and approximate location over the existing structural framing.

3. <u>Question</u>: They show 2 new RTU's but nothing tells me what openings, or if any are required. If anything is required here, we need to know what the existing framing is, what the access is, the size of the openings, locations, do these openings span more than one bay of existing framing, etc.

<u>Response</u>: Access to the roof is to be coordinated with Owner. Refer to drawing A301 for approximate location of the openings and approximate location over the existing structural framing. See "Typical Opening Detail at Roof Under New HVAC Curb" on drawing A301 for new framing requirements.

4. <u>Question</u>: Mech. Drwgs. might show the openings, but I still need to know what is there, what I'm connecting to, spans, location of framing, etc.

<u>Response</u>: Refer to answer to RFI #3 (above).

5. <u>Question</u>: Who is to provide the Virco Furniture item# 8, 9, 10, 11, 12? What are the specifications for Virco item #10, 11 and 12?

<u>Response</u>: Refer to drawing A401 (re-issued under Addendum 1) for furniture and equipment provided as part of this contract.

6. <u>Question</u>: Can the architect confirm what cabinets are to be under the counter on the West wall with the cleanup sink?

<u>Response</u>: Refer to the Equipment Schedule and Room Layout on drawing A401 (re-issued under Addendum 1).

7. <u>Question</u>: Does the school have a BMS System? The spec. indicates factory provided localized controls with network card for future use?

<u>Response</u>: The Clearview Middle School is currently served by an existing BMS (JACE) system which is maintained by Peterson Service Company. This existing BMS system is scheduled to be updated/replaced under separate contract and is not part of this contract. Specifications/notes for RTU-1 & RTU-2 under this project shall be revised to include the following clarity: "Mechanical Contractor shall retain the existing Building Automation Contractor for RTU-1 & RTU-2 integration into existing building BMS system. Installation shall be complete, including but not limited to all required wiring, hardware, programming, graphics and integration".

8. <u>Question</u>: We realize that the original RFI deadline was 10/25, but since the bid date has been pushed out to 11/14, we are hoping you will still consider our RFI to Gillan & Hartmann:

Would CaptiveAire (RTU-1) and SystemAir (RTU-2) be considered approved equals to the Basis of Design?

<u>Response</u>: Refer to AIA A201 and Section 00800 pertaining to the procedure for any "Request for Substitutions".

REFER TO DRAWINGS

The following Drawings and/or Sketches are attached to this Addendum:

DRAWING NO. TITLE

A301	WALL SECTIONS AND MISCELLANEOUS DETAILS
P001	PLUMBING SYMBOLS, ABBREVIATIONS, & GENERAL NOTES
P201	PLUMBING FIRST FLOOR NEW WORK PLAN
H101	HVAC FIRST FLOOR DEMOLITION PLAN
H102	HVAC ROOF DEMOLITION PLAN
H201	HVAC FIRST FLOOR NEW WORK PLAN
H202	HVAC ROOF NEW WORK PLAN
E001	ELECTRICAL SYMBOL LEGEND
E101	LIGHTING AND POWER REMOVAL WORK
E201	LIGHTING AND POWER NEW WORK
E202	STEM LAB ROOF POWER AND FIRE ALARM NEW WORK
E701	ELECTRICAL DETAILS

The following Drawings to be revised or corrected as follows:

DRAWING NO. CHANGES AND CORRECTIONS

A301	Delete drawing A301 in its entirety and substitute with the enclosed revised drawing.
P001, P201	Delete the referenced drawings in their entirety and substitute with the enclosed revised drawings.
H101, H102, H201, H202	Delete the referenced drawings in their entirety and substitute with the enclosed revised drawings.
E001, E101, E201, E202, E701	Delete the referenced drawings in their entirety and substitute with the enclosed revised drawings.

REFER TO SPECIFICATIONS

PART 1 - SECTION 01900 - GUARANTEES AND WARRANTIES

Page	<u>Paragraph</u>	
01900-1	1.1 <i>,</i> B	Change all references in the subparagraph from one (1) year , to read two (2) years .
01900-4	1.2, J.1	Change reference in the subparagraph from one (1) year , to read two (2) years .
01900-5	1.2, M.2.a	Change reference in the subparagraph from one (1) year , to read two (2) years .
	1.2, N.2	Change reference in the subparagraph from one (1) year , to read two (2) years .
01900-6	1.2, O.1.d	Change reference in the subparagraph from one (1) year , to read two (2) years .
	1.2, O.1 f	Change reference in the subparagraph from one (1) year , to read two (2) years .
	1.4, A.1	Change reference in the subparagraph from one (1) year , to read two (2) years .
01900-7	1.5, A.1	Change reference in the subparagraph from one (1) year , to read two (2) years .
01900-8	1.6 <i>,</i> A.1	Change reference in the subparagraph from one (1) year , to read two (2) years .

PART 2 - SECTION 08700 - FINISH HARDWARE

Delete Section 08700 in its entirety and substitute with the enclosed revised document.

PART 1 - SECTION 09650 - RESILIENT FLOORING

- Page Paragraph
- 09650-6 2.4, B Add the following subparagraph:
 - 1. Model "SSR-XX-B" as manufactured by Tarkett; or approved equal.

END OF ADDENDUM NO. 2

ADDENDUM NO. 2 (MEP portion)

to the

SPECIFICATIONS AND DRAWINGS

for the

NEW STEM LAB AT CLEARVIEW REGIONAL MIDDLE SCHOOL IN CLEARVIEW REGIONAL HIGH SCHOOL DISTRICT

Located at

595 Jefferson Rd, Mullica Hill, New Jersey 08062



- 1. MEP Addendum No. 2 dated November 01, 2023, is issued as part of the Contract Documents, dated October 11, 2023 to inform and/or specify changes, which take precedence over information contained in the original Contract Documents. Unless otherwise specifically noted or specified hereinafter, or shown on drawings or schedules accompanying this Addendum, all work required by this Addendum shall conform to the applicable provisions of the Contract Documents. It shall be the responsibility of the Bidder to include in their bid any cost implications of this Addendum. All Bidders are to indicate on the form of proposal submitted by them, acknowledgment of receipt and compliance with the contents of this change to the Contract Documents.
- 2. Any provision in any of the Contract Documents which may be in conflict or be inconsistent with the contents of this Addendum shall be void to the extent of such conflict or inconsistency.

3. HVAC TRADE

3.1 CLARIFICATIONS:

3.1.1. None.

3.2 ERRATA IN THE SPECIFICATIONS

3.2.1. None.

- 3.3 ERRATA ON THE DRAWINGS
 - 3.3.1. Drawing H201 HVAC First Floor New Work Plan: Slide RTU-2 T-Stat location closer to door to avoid conflict with new wall mounted white board.

4. PLUMBING TRADE

4.1 CLARIFICATIONS:

4.1.1. None.

4.2 ERRATA IN THE SPECIFICATIONS

4.2.1. None.

4.3 ERRATA ON THE DRAWINGS:

4.3.1. None.

- 5. ELECTRICAL TRADE
 - 5.1 CLARIFICATIONS:

5.1.1. None.

5.2 ERRATA IN THE SPECIFICATIONS

5.2.1. None.

5.3 ERRATA ON THE DRAWINGS:

- 5.3.1. Drawing E001:
 - 5.3.1.1. Change symbol legend note for new plugstrip to read as follows: New plugstrip with 12" plug cord to be set in trough of desks in room 305.
- 5.3.2. Drawing E101:
 - 5.3.2.1. Change removal note number 3 to read as follows: Remove, clean and store existing clock, speaker, and cover from the back box for reinstallation as shown on 2/E201. Protect the wire connections in the back box from paint and dirt. Back box is to remain in place.

END OF ADDENDUM NO. 2

SECTION 08700 – FINISH HARDWARE

PART 1 - GENERAL

1.1 **RELATED DOCUMENTS**

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.
 - 3. Cylinders specified for doors in other sections.
- C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC International Building Code.
 - 3. NFPA 70 National Electrical Code.
 - 4. NFPA 80 Fire Doors and Windows.
 - 5. NFPA 101 Life Safety Code.
 - 6. NFPA 105 Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- D. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards A156 Series.
 - 2. UL10C Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 Access Control System Units.
 - 4. UL 305 Panic Hardware.
 - 5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

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- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
 - 1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 - 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols,

hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

- E. Informational Submittals:
 - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

- 1. Function of building, purpose of each area and degree of security required.
- 2. Plans for existing and future key system expansion.
- 3. Requirements for key control storage and software.
- 4. Installation of permanent keys, cylinder cores and software.
- 5. Address and requirements for delivery of keys.
- H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 - 3. Review sequence of operation narratives for each unique access controlled opening.
 - 4. Review and finalize construction schedule and verify availability of materials.
 - 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified

electrified, monitoring, signaling and access control system hardware without additional infield modifications.

1.7 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Special Owner Requested Warranty Period: Unless otherwise indicated, warranty shall be **two (2) years** from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Please note that ASSA ABLOY is transitioning the Yale Commercial brand to Arrow. This affects only the brand name; the products and product numbers will remain unchanged. The brand transition is expected to be complete in or about May of 2024, and products shipping after that time will be branded Arrow.
- D. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01,

Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 - 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
 - 5. Manufacturers:
 - a. McKinney (MK) TA/T4A Series, 5 knuckle.
 - b. Or approved equal

2.3 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
 - 1. Where specified, provide modular continuous geared hinges that ship in two or three pieces and form a single continuous hinge upon installation.

- 2. Manufacturers:.
 - a. Pemko (PE).
 - b. Or approved equal

2.4 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.
 - 1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
 - 2. Furnish dust proof strikes for bottom bolts.
 - 3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
 - 4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
 - 5. Manufacturers:
 - a. Rockwood (RO).
 - b. Or approved equal
- B. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 - 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 - 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
 - 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 - 4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
 - 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
 - 6. Manufacturers:
 - a. Rockwood (RO).
 - b. Or approved equal

2.5 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
 - 1. Manufacturers:
 - a. Match Existing, Field Verify.

- B. Keying System: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- C. Key Quantity: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Two (2)
 - 2. Master Keys (per Master Key Level/Group): Five (5).
- D. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 CYLINDRICAL LOCKS AND LATCHING DEVICES

- A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) CLX3300 Series.
 - b. Oak Security Group (OK) 1CL 2CSI1H2A.
 - c. Or approved equal

2.7 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 - 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 - 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
 - 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 - 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 - 4. Dustproof Strikes: BHMA A156.16.

2.8 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 - 1. Exit devices shall have a **five (5) year** warranty.
 - 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 - 3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 - 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 - 6. Flush End Caps: Provide flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. Plastic end caps will not be acceptable.
 - 7. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
 - 8. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 - 9. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 - 10. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 - 11. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 - 12. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) ED4000 / ED5000 Series.
 - b. Or approved equal

2.9 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
 - 1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
 - 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 - 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
 - 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
 - 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
 - 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
 - 1. Heavy duty surface mounted door closers shall have a **thirty** (**30**) **year** warranty.
 - 2. Manufacturers:
 - a. Norton Rixson (NO) 7500 Series.
 - b. Or approved equal
- C. Door Closers, Surface Mounted (Unitrol): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted closers with door stop mechanism to absorb dead stop shock on arm and top hinge. Hold-open arms to have a spring loaded mechanism in addition to shock absorber assembly. Arms to be provided with rigid steel main arm and secondary arm lengths proportional to the door width.
 - 1. Manufacturers:
 - a. Norton Rixson (NO) Unitrol Series.
 - b. Or approved equal

2.10 ARCHITECTURAL TRIM

A. Door Protective Trim

- 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
- 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
- 3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
- 4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
- 5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
- 6. Manufacturers:
 - a. Rockwood (RO).
 - b. Or approved equal

2.11 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 - 1. Manufacturers:
 - a. Rockwood (RO).
 - b. Or approved equal
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
 - 1. Manufacturers:
 - a. Norton Rixson (RF).
 - b. Rockwood (RO).
 - c. Sargent Manufacturing (SA).

2.12 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. Pemko (PE).
 - 2. Or approved equal

2.13 ELECTRONIC ACCESSORIES

- A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
 - 1. Manufacturers:
 - a. Securitron (SU) DPS Series.
 - b. Or approved equal

2.14 **FABRICATION**

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.15 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 **PREPARATION**

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."

- 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
 - 1. Quantities listed are for each pair of doors, or for each single door.
 - 2. The supplier is responsible for handing and sizing all products.
 - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 - 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Manufacturer's Abbreviations:
 - 1. MK McKinney
 - 2. PE Pemko
 - 3. RO Rockwood
 - 4. RU Corbin Russwin
 - 5. OT Other
 - 6. RF Rixson
 - 7. NO Norton
 - 8. SU Securitron
 - 9. OK Oak Security Group

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Hardware Sets

<u>Set: 1.0</u>

Door: 305A.2

2	Continuous Hinge	CFM-SLF-HD1-M		PE
1	Flush Bolt	2845 / 2945	US26D	RO
1	Mortise Exit Device, Nightlatch	ED5657L N9M57ET M110	630	RU
1	Mortise Cylinder	- Match Owner's existing key system	626	OT
1	Conc Overhead Stop	6-X36	630	RF
1	Surface Closer	UNI7500	689	NO
2	Kick Plate	K1050 10" high CSK BEV	US32D	RO
1	Weatherstrip	- Integral within construction of door and frame assembly		OT
2	Sweep	29326CNB TKSP		PE
1	Threshold	1715AK MSES25SS		PE
2	Position Switch	DPS-M-BK		su 🗳
1	Wiring Diagram	- Elevation and Point to Point as Specified		OT

Notes: Add kick plate

*****FIELD VERIFY SPECIFIED HARDWARE IS COMPATIBLE WITH EXISTING CONDITIONS*****

Door position switches to monitor / report open closed status of opening to security system.

Set: 2.0

Door: 305B

1 Continuous Hinge	CFM-HD1-M		PE
1 Storeroom Lock	CLX3357 NZD LC	626	RU
1 Cylinder	- Match Owner's existing key system	626	OT
1 Surface Closer	CPS7500	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
3 Silencer	608 / 609		RO

Notes: Add wall stop

*****FIELD VERIFY SPECIFIED HARDWARE IS COMPATIBLE WITH EXISTING CONDITIONS*****

<u>Set: 3.0</u>

Door: 305.2

1 Continuous Hinge	CFM-HD1-M		PE
1 Entrance Lock	CLX3351 NZD LC	626	RU
1 Cylinder	- Match Owner's existing key system	626	OT
1 Conc Overhead Stop	2-X36	630	RF
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
1 Gasketing	ACP112BL/2		PE
1 Gasketing	S44BL		PE
1 Gasketing	S773BL		PE
1 Door Bottom	STC411APK		PE

Notes: Add wall stop

<u>Set: 4.0</u>

Door: 305.1

RU
OT
D RO
D RO
PE
PE
PE
PF

Notes:

<u>Set: 5.0</u>

Doors: 305, 305A

1 Continuous Hinge	CFM-HD1-M		PE
1 Classroom Intruder Lock	1CL 2CSI1H2A	626	OK
2 Cylinder	- Match Owner's existing key system	626	ОТ
1 Surface Closer	PR7500	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
1 Gasketing	ACP112BL/2		PE
1 Gasketing	S44BL		PE
1 Gasketing	S773BL		PE
1 Door Bottom	STC411APK		PE

Notes:

*****FIELD VERIFY SPECIFIED HARDWARE IS COMPATIBLE WITH EXISTING CONDITIONS*****

END OF SECTION 08700







DEMOLITION NOTES:

 $\frac{1}{1}$ DEMOLISH AND REMOVE EXISTING DECK HUNG HEATING & VENTILATING (HV) UNIT AND ALL ASSOCIATED PIPING, DUCTWORK, CONTROLS AND HANGERS. COORDINATE ROOF/WALL PATCHING/PAINTING WITH THE GENERAL CONTRACTOR. _____

AND TEMPORARILY CAP UNTIL OPENING IS ENLARGED UNDER NEW WORK. 4×3 DEMOLISH AND REMOVE EXISTING DECK HUNG UNIT HEATER AND ALL ASSOCIATED PIPING, CONTROLS AND HANGERS. REMOVE HWS/HWR PIPING TO BELOW FLOOR AND PROVIDE CAP. COORDINATE PATCHING/PAINTING WITH THE GENERAL CONTRACTOR.





DEMOLITION NOTES:

(1) DEMOLISH AND REMOVE OUTSIDE AIR INTAKE AND ALL ASSOCIATED DUCTWORK, CONTROLS AND MOUNTING. COORDINATE WITH THE GENERAL CONTRACTOR FOR CAPPING EXISTING ROOF CURB AND ALL ASSOCIATED ALL INFILL/PATCHING/PAINTING.

OPERATED MODULATING DAMPER AND ALL ASSOCIATED CONTROLS AND MOUNTING. RETAIN OPENING AND TEMPORARILY CAP FOR RE-USE UNDER NEW WORK.





NEW WORK NOTES:

- MECHANICAL CONTRACTOR SHALL FURNISH AND CONNECT 6" EXHAUST DUCTWORK TO SPRAY BOOTH AND EXHAUST FAN PROVIDED BY OTHERS. EXTEND 6" EXHAUST UP THRU ROOF WITH THIMBLE AND FLASHING COLLAR. TERMINATE ABOVE ROOF. REFER TO DETAIL ON DRAWING H501 FOR ADDITIONAL REQUIREMENTS.
- 1-1/2" HWS/R UP THROUGH ROOF INTO RTU-1 SERVICE ENTRY. ROUTE PIPING INSIDE OF PIPE ENCLOSURE TO HOT WATER COIL. INSULATE AND SEAL PIPE PENETRATIONS THROUGH COVER.
- 1-1/2" CWS/R AND 1" HWS/R UP THROUGH ROOF INTO RTU-2 AND CONNECT TO COILS. ROUTE PIPING INSIDE OF PIPE ENCLOSURE. INSULATE AND SEAL PIPE PENETRATIONS THROUGH COVER.
- VERIFY IN FIELD EXISTING CWS/CWR & HWS/HWR PIPING NEAR LOCATION INDICATED. EXTEND AND CONNECT TO EXISTING MAIN/BRANCH WITH SHUT-OFF'S AS REQUIRED. COORDINATE CORING/CUTTING/PATCHING/PAINTING WITH THE GENERAL CONTRACTOR.
- 5 PIPE ROUTE SHOWN IS APPROXIMATE. CONTRACTOR SHALL ADJUST AS REQUIRED TO AVOID CONFLICTS WITH NEW/EXISTING CONDITIONS.
- ADJUST FINAL PLACEMENT OF SPRAY BOOTH EXHAUST DUCT ROOF PENETRATION AS REQUIRED TO MAINTAIN MINIMUM 10' CLEARANCE FROM ALL OUTSIDE AIR INTAKES.
- $\langle \widehat{7} \rangle$ APPROXIMATE LOCATION OF THERMOSTAT COORDINATE FINAL PLACEMENT WITH THE ARCHITECT AND GENERAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING AND CONDUIT BETWEEN FINAL T-STAT LOCATIONS AND ASSOCIATED ROOF MOUNTED EQUIPMENT.
- DUCT MOUNTED SMOKE DETECTOR AND SHUNT-TRIP FURNISHED LOOSE BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTOR AND SHUNT-TRIP INCLUDING ALL REQUIRED CONTROL WIRING AND INTERCONNECTION TO RTU-1. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO POWER AND FIRE ALARM SYSTEMS.

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NEW WORK NOTES: $\sim \sim \sim$

- FURNISH AND INSTALL ROOF MOUNTED 100% OUTDOOR AIR DOAS UNIT (RTU-1) NEAR LOCATION INDICATED WITH ROOF CURB. ENLARGE ROOF OPENING REMAINING FROM PREVIOUSLY REMOVED GRAVITY VENTILATOR AS REQUIRED FOR DOAS-1. COORDINATE FINAL INSTALLATION WITH THE ELECTRICAL AND GENERAL CONTRACTORS.
- FURNISH AND INSTALL ROOF MOUNTED ROOF TOP UNIT (RTU-2) NEAR LOCATION INDICATED WITH ROOF CURB. COORDINATE FINAL INSTALLATION WITH THE ELECTRICAL AND GENERAL CONTRACTORS.
- 3 1" COOLING COIL CONDENSATE (CCC) DRAIN FROM RTU-1 AND SPILL TO ROOF. POINT DIRECTION OF DISCHARGE TOWARDS NEAREST ROOF DRAIN.
- 3/4" COOLING COIL CONDENSATE (CCC) DRAIN FROM RTU-2 AND SPILL TO ROOF. POINT DIRECTION OF DISCHARGE TOWARDS NEAREST ROOF DRAIN.
- 5 1-1/2" HWS/R UP TO RTU-1. ROUTE PIPING INSIDE OF ROOF CURB.
- EXISTING SOLAR PANELS TO BE REWORKED UNDER SEPARATE PROJECT.

8 2" VENT UP FROM FLAMMABLE STORAGE CABINET.

	SYMBOL LEGEND:
(j)´ `	SYMBOL INDICATED WITH THIN-LINED DASHED LINES INDICATES DEVICE THAT IS SAME AS THAT
n [· · ·]	DESCRIBED WITH SOLID LINES, BUT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE. LED TYPE 1'x4' LIGHT FIXTURE; LETTER INDICATES TYPE AS DESCRIBED IN THE LIGHT FIXTURE
a	SCHEDULE; LOWER CASE LETTER INDICATES SWITCHING GROUP
a	SCHEDULE; LOWER CASE LETTER INDICATES SWITCHING GROUP
	HALF SHADING SHOWN ON LIGHT FIXTURE SYMBOL INDICATES FIXTURE ON EMERGENCY LIGHTING CIRCUIT
ræÍ ∆_	EXIT LIGHT WALL MOUNTED. PROVIDE NUMBER OF FACES AND DIRECTION CHEVRONS SHOWN ON ELECTRICAL AND ARCHITECTURAL DRAWINGS AND AS REQUIRED FOR PATH OF EGRESS. CONNECT TO THE UNSWITCHED, CONTINUOUSLY POWERED PORTION OF THE INDICATED EMERGENCY POWER CIRCUIT. WG = PROVIDE WIRE GUARD WHERE INDICATED.
	WALL MOUNTED EXTERIOR EGRESS LIGHT FIXTURE. LETTER INDICATES TYPE AS DESCRIBED IN THE LIGHT FIXTURE SCHEDULE.
S	DUAL TECHNOLOGY (ULTRASONIC + PASSIVE INFRARED) LIGHTING CONTROL OCCUPANCY SENSOR; CEILING FLUSH MOUNTED; MINIMUM 1000 SQUARE FOOT COVERAGE; INCLUDE PROVISIONS AND SET ALL SENSORS FOR 30 MINUTE TIME DELAY OFF. PROVIDE AUXILIARY RELAYS FOR LIGHTING AND HVAC CONTROL AS DESCRIBED ON SPECIFICATION 260923.
	CONTROL WIRING FOR OCCUPANCY SENSOR. SAW-CUT PATH FOR TEACHER DESK AND STEM LAB STUDENT DESK RECEPTACLES. PATCH TO MATCH SURROUNDING AREA. SOLID CIRCLE INDICATES RACEWAY VERTICAL DROP LOCATION FROM ABOVE CEILING.
	HOME RUN - 2#12+1#12G IN 3/4"C UNLESS NOTED OTHERWISE. BRANCH CIRCUIT RUN CONCEALED IN CEILINGS AND WALLS - 2#12+1#12G IN 3/4"C UNLESS NOTED OTHERWISE.
\frown	FINAL CONNECTION TO EQUIPMENT - 2#12+2#12G. IN 3/4"C UNLESS NOTED OTHERWISE.
\frown	SEE CONTINUATION OF BRANCH CIRCUIT CEILING AND WALLS - 2#12+1#12G IN 3/4"C UNLESS NOTED OTHERWISE.
	BRANCH CIRCUIT WIRING FOR EMERGENCY LIGHTING.
⊠₁	FUSED DISCONNECT SWITCH AS PER SPECIFICATION REQUIREMENTS, 3 POLE, 30 AMP UNLESS NOTED OTHERWISE. WP = EXTERIOR WEATHERPROOF
S,S3,S4,	SINGLE POLE, THREE WAY SWITCH, AND FOUR WAY SWITCH. LOWER CASE LETTER INDICATES
эк 	CIRCUIT BREAKER
IJ	EXTERIOR NEMA 3R RATED JUNCTION BOX
J	JUNCTION BOX
(#)	ELECTRICAL REMOVAL/DEMOLITION NOTES ON REMOVAL/ DEMOLITION DRAWINGS
(#)	SEE SHEET NOTE #
	MECHANICAL EQUIPMENT TAG, REFER TO MECHANICAL DRAWINGS
Φτ	DUPLEX CONVENIENCE RECEPTACLE, MOUNTED 18"AFF UNLESS NOTED OTHERWISE. "T" INDICATES
₽ ^{GFI}	TAMPERPROOF GFI TYPE DUPLEX CONVENIENCE RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR,
WP	EXTERIOR WEATHERPROOF GFI TYPE DUPLEX CONVENIENCE RECEPTACLE WITH COVER TO MAINTAIN
Ψ	WEATHERPROOF CONNECTION FOR ATTACHMENT PLUG IN ACCORDANCE WITH NEC 406.9(B)
#	INSTALLED IN THE ASSOCIATED WIREMOLD UNLESS NOTED OTHERWISE.
Ψ	SPECIAL RECEPTACLE, TYPE AS NOTED. COORDINATE FINAL CONFIGURATION WITH FURNISHED EQUIPMENT.
• <u></u> ~ <u>~</u> ~ <u>~</u> ~	TWO CHANNEL (POWER AND DATA), SURFACE WALL MOUNTED, METAL WIREMOLD 4000 SERIES RACEWAY. SOLID CIRCLE INDICATES RACEWAY VERTICAL DROP LOCATION FROM ABOVE CEILING. PROVIDE CONTINUOUS VERTICAL AND HORIZONTAL WIREMOLD INSTALLATION WHERE SHOWN. COORDINATE WITH THE ARCHITECT FOR THE FINAL COLOR OF THE WIREMOLD. PROVIDE ALL REQUIRED WIREMOLD PARTS AND ACCESSORIES FOR A COMPLETE WIREMOLD INSTALLATION FOR THE POWER AND DATA OUTLETS THAT ARE INDICATED.
•	NEW PLUGSTRIP SURFACE WALL MOUNTED, TAMPER-RESISTANT WH20GB606TR (FOR 6' SEGMENTS) AND WH20GB306TR (FOR 3' SEGMENTS), OR APPROVED EQUIVALENTS. SOLID CIRCLE INDICATES RACEWAY VERTICAL DROP LOCATION FROM ABOVE CEILING. PROVIDE CONTINUOUS VERTICAL AND HORIZONTAL WIREMOLD INSTALLATION WHERE SHOWN. COORDINATE WITH THE ARCHITECT FOR THE
	FINAL COLOR OF THE WIREMOLD. PROVIDE ALL REQUIRED WIREMOLD PARTS AND ACCESSORIES FOR A COMPLETE WIREMOLD INSTALLATION FOR THE POWER AND DATA OUTLETS THAT ARE INDICATED.
	EXISTING PANELBOARD OR SWITCHBOARD TO REMAIN IN PLACE NEW ELECTRICAL DISTRIBUTION POWER PANEL.
Θ	FIRE ALARM SYSTEM HEAT DETECTOR. NEW DEVICES ARE TO BE ADDRESSABLE AND FLUSH MOUNTED ON THE CEILING. PROVIDE A COVERPLATE PAINTED TO MATCH THE CEILING FOR ANY DETECTOR NOT REPLACED AT THE SAME LOCATION. THE LETTER "A" INDICATES AN EXISTING ASSOCIATED HEAT DETECTOR LOCATED ABOVE THE CEILING TO BE REMOVED. WG = PROVIDE WIRE GUARD WHERE INDICATED.
EX	FIRE ALARM HORN W/ADA STROBE LIGHT. MOUNT NEW WALL DEVICES 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER. ADJUST HORNS IN CLASSROOMS OFFICES, AND OTHER SMALL AREAS OTHER THAN CORRIDORS TO NOT EXCEED 110dB AS PER NFPA-72. "C" INDICATES CEILING MOUNTED. SET STROBE AT 15cd UNLESS NOTED OTHERWISE.
	FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR WITH REMOTE ALARM INDICATING AND TEST STATION. INSTALL NEW REMOTE TEST AND ALARM INDICATING STATIONS FLUSH MOUNTED IN THE NEAREST CORRIDOR DROPPED CEILING BELOW THE UNIT (OR WALL SURFACE MOUNTED WITH ALL REQUIRED FITTED SURFACE BACKBOX AND WIREMOLD RACEWAY PAINTED TO MATCH THE WALL
FACP	EXISTING MAIN FIRE ALARM CONTROL PANEL TO REMAIN IN PLACE.
F.	MANUAL FIRE ALARM PULL STATION. PROVIDE NEW ADDRESSABLE PULL STATIONS AS SHOWN ON NEW
<u> </u>	WORK DRAWINGS. PROVIDE ALL NEW ADDRESSABLE PULL STATIONS WITH ALARMED LIFT COVER (PROVIDE ALARM LIFT COVER EXTENSION RINGS AS REQUIRED), SURFACE MOUNT 48" AFF. CONCEAL WIRING IN SURFACE MOUNTED WIREMOLD RACEWAY PAINTED TO MATCH THE WALL. WG = PROVIDE WIRE GUARD WHERE INDICATED.
匠→	EMERGENCY POWER OFF PUSH BUTTON STATION MOUNTED 46"AFF. COORDINATE THE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN. SEE DETAIL 4/E701 FOR REQUIREMENTS.
CA	CLOCK (POWERED AND CONTROLLED FROM THE BUILDING WIDE CLOCK SYSTEM) AND PUBLIC ADDRESS SYSTEM (POWERED AND CONTROLLED FROM THE BUILDING WIDE CLOCK SYSTEM) SPEAKER WITH LISTED COMPATIBLE BACKBOX. SEE DRAWING NOTES FOR REQUIREMENTS ASSOCIATED WITH THESE DEVICES
Þ	DATA OUTLETS INSTALLED IN WIREMOLD RACEWAY. PROVIDE RJ45 DATA JACK, COVER PLATE, CAT6 DATA CABLE TERMINATED TO THE JACK AND EXTENDED TO DATA RACK "C" ROOM "B138". PROVIDE
-	IDENTIFICATION LABELING ON THE COVERPLATE AS REQUIRED IN THE SPECIFICATION (COORDINATE IDENTIFICATION REQUIREMENTS WITH THE OWNER).
	EXHAUST FAN PROVIDED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR
	SURFACE MOUNTED WIRELESS CLOCK. WALL MOUNTED PUBLIC ADDRESS LOUDSPEAKER.
RC	CEILING MOUNTED DIGITAL LIGHT CONTROLLER. BASIS OF DESIGN: WATTSTOPPER DLM SYSTEM.
PC	CEILING MOUNTED DIGITAL PLUG CONTROLLER. BASIS OF DESIGN: WATTSTOPPER DLM SYSTEM.
15cd	FIRE ALARM COMBINATION VOICE AUDIO AND ADA COMPLIANT VISUAL STROBE ALARM INDICATION DEVICE FLUSH MOUNTED IN A DROPPED CEILING WITH MINIMUM 15cd INTENSITY UNLESS NOTED OTHERWISE. COORDINATE ACTUAL CANDELA LEVEL WITH THE FIRE ALARM SHOP DRAWING REQUIREMENTS. "H" WHERE SHOWN INDICATES DEVICE SURFACE MOUNTED ON A HARD OR STRUCTURAL CEILING AND PROVIDED WITH A FITTED BACK BOX (FITTED TO MATCH THE DEVICE) AND SURFACE MOUNTED WIREMOLD RACEWAY FROM THE DEVICE UP TO THE CEILING WHERE THE WIRING EXTENDS CONCEALED. COORDINATE CEILING MOUNTING REQUIREMENTS (DROP CEILING OR HARD CEILING) AND INCLUDE PROVISIONS FOR DROP CEILING OR HARD CEILING AS REQUIRED. PAINT THE
\odot	CARBON MONOXIDE DETECTOR WIRED TO THE NEW FIRE ALARM SYSTEM TO PROVIDE A TROUBLE SIGNAL UPON ACTIVATION. COORDINATE CEILING MOUNTING REQUIREMENTS (DROP CEILING OR HARD CEILING) AND INCLUDE PROVISIONS FOR DROP CEILING OR HARD CEILING AS REQUIRED.

	AFF	ABOVE FINISHED FLOOR	
>	С	CONDUIT	<
>	EPO	EMERGENCY POWER OFF	•
>	GC	PRIME GENERAL CONTRACTOR	
	GFI	GROUND FAULT INTERRUPTER	
	NEC	NATIONAL ELECTRICAL CODE	
(TYP	TYPICAL	

 \sim

N PLAN OR DETAI NUMBER SCALE: 1/4" = 1'-0

			LIGH	TING	FIXTU 265119 FOF	JRE S	CHEDULE			
TYPE	MODEL	LAMPING	WATTAGE	LUMENS	CRI	COLOR TEMP	DESCRIPTION	VOLT	MOUNTING HEIGHT	NOTES
A1	PHILIPS DAY-BRITE 2FGG42B840- 4-D-UNV-DIM	LED	34	4214	80	4000K	RECESSED 2'x4' ARCHITECTURAL	120	CEILING	-
A2	PHILIPS DAY-BRITE 2FGG54L840- 4-D-UNV-DIM	LED	49	5594	80	4000K	RECESSED 2'x4' ARCHITECTURAL	120	CEILING	-
A3	PHILIPS DAY-BRITE OWL OWL450L840-UNV- DIM	LED	53	5000	80	4000K	1'x4' PENDANT	120	11' AFF	WITH 12" STEMS
В	WARELITE WLWP-60-40K-MV- 10D-G2	LED	60	8038	60	4000K	LED WALL LIGHT	120	WALL	WITH PHOTOCELI ATTACHMENT WET LISTED

TWO CHANNEL (POWER AND DATA), SURFACE WALL MOUNTED, METAL WIREMOLD 3300 SERIES RACEWAY. SOLID CIRCLE INDICATES RACEWAY VERTICAL DROP LOCATION FROM ABOVE CEILING PROVIDE CONTINUOUS VERTICAL AND HORIZONTAL WIREMOLD INSTALLATION WHERE SHOWN. COORDINATE WITH THE ARCHITECT FOR THE FINAL COLOR OF THE WIREMOLD. PROVIDE ALL REQUIRED WIREMOLD PARTS AND ACCESSORIES FOR A COMPLETE WIREMOLD INSTALLATION FOR THE POWER AND DATA OUTLETS THAT ARE INDICATED.

CEILING MOUNTED DIGITAL LOW VOLTAGE VACANCY SENSOR COORDINATED TO BE COMPATIBLE (v_s) WITH THE DIGITAL LIGHTING CONTROL EQUIPMENT SHOWN ON THE LIGHTING CONTROL DETAIL 7/E801. SEE SPECIFICATION 260923 FOR REQUIREMENTS. NEW PLUGSTRIP WITH 12" PLUG CORD TO BE SET IN TROUGH OF DESKS IN ROOM 305 • P - P - P - P -

GENERAL NOTES APPLICABLE TO ALL DRAWINGS:

1. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT OF ALL OUTLETS AND DEVICES WITH OWNER AND ARCHITECT WITH RESPECT TO MOUNTING HEIGHTS AND LOCATION OF EQUIPMENT, FURNITURE AND WALL FURNISHINGS. COORDINATE FINAL LOCATION SO AS NOT TO INTERFERE WITH EXHIBIT BOARDS, DRY MARKER BOARDS AND OTHER EXISTING OR NEW SURFACE MOUNTED ITEMS.

2. ALL 20A BRANCH CIRCUITS LONGER THAN 100 FEET SHALL BE MINIMUM WIRE SIZE 2#10AWG+1#12AWG UNLESS NOTED OTHERWISE. 3. THE BASIS OF DESIGN LISTED MANUFACTURER DOES NOT INDICATE A PROPRIETARY SYSTEM, BUT IS INTENDED TO PROVIDE A LEVEL OF ACCEPTABLE QUALITY. REFER TO THE PROJECT SPECIFICATION

MANUAL AND ASSOCIATED SECTION FOR EQUIPMENT MANUFACTURERS LIST. EQUAL SUBSTITUTIONS WILL BE REVIEWED AND ACCEPTED IF THEY MEET THE SAME LEVEL OF QUALITY AND ARE SUBMITTED IN ACCORDANCE WITH SPECIFICATION PROCEDURES.

4. PROVIDE SURFACE MOUNTED RACEWAYS FOR ALL NEW OR RELOCATED WALL MOUNTED DEVICES SHOWN IN AREAS OF EXISTING CONSTRUCTION UNLESS NOTED OTHERWISE. COORDINATE THE COLOR OF ALL SURFACE MOUNTED RACEWAYS WITH THE ARCHITECT PRIOR TO ORDERING THIS EQUIPMENT.

5. COORDINATE FINAL LOCATION, OVERCURRENT PROTECTION REQUIREMENTS, AND CONNECTION REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT WITH THE ASSOCIATED TRADE DRAWINGS, TRADE SHOP DRAWINGS, AND RESPECTIVE TRADE CONTRACTORS. COORDINATE LOCATION AND INSTALLATION OF CONTROL DEVICES WITH THE TRADE CONTRACTORS.

OCCUPANCY SENSORS SHOWN ON LIGHTING PLANS ARE TO CONTROL ALL LIGHT FIXTURES IN THE SAME ROOM AS SENSOR UNLESS NOTED OTHERWISE. ROOMS WITH MULTIPLE SENSORS SHALL HAVE SENSORS NETWORKED TOGETHER TO FUNCTION AS A SINGLE UNIT. SENSORS SHALL BE INITIALLY PROGRAMMED TO TURN OFF LIGHTS 30 MINUTES AFTER THE LAST DETECTED MOTION. ANY MOVEMENT DETECTED BY SENSOR SHALL RESTART THE 30 MINUTE INTERVAL BEFORE LIGHTS ARE TURNED OFF. SENSOR CONTROL OF LIGHTS SHALL BE PROGRAMMED TO FUNCTION BEFORE THE LOCAL WALL SWITCH. PROVIDE SENSOR POWER MODULES, RELAYS, AND WIRING AS REQUIRED BY THE MANUFACTURER. THE SENSORS SHALL INCLUDE AUXILIARY RELAYS FOR LIGHTING AS REQUIRED IN THE SPECIFICATIONS. SEE DETAILS 1 AND 3 ON DRAWING E701.

7. PERFORM ALL CUTTING AND PATCHING NECESSARY TO PERFORM WORK. MATCH EXISTING MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING.

9. PROVIDE TEMPORARY SUPPORT AND PROTECTION OF EXISTING CEILING MOUNTED FIRE ALARM LIGHT FIXTURES, PA SYSTEM SPEAKERS, MOTION DETECTORS, AND ASSOCIATED WIRING WHEN THE CEILINGS ARE REMOVED IN ANY PHASE OF CONSTRUCTION PRIOR TO WORK IN THAT AREA.

10. ALL WORK AND INSTALLED EQUIPMENT MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE 2020

11. UTILIZE THE EQUIPMENT CURBS PROVIDED WITH THE HVAC EQUIPMENT (CURBS PROVIDED BY THE HVAC CONTRACTOR) FOR BRANCH CIRCUIT ACCESS TO ROOFTOP OUTLETS AND EQUIPMENT CONNECTION

12. THE ELECTRICAL CONTRACTOR SHALL REMOVE, STORE AND RE-INSTALL EXISTING CEILING SYSTEMS AS NECESSARY TO PERFORM WORK. NOTIFY OWNER OF ANY EXISTING DAMAGE TO CEILING TILE AND SUPPORTS PRIOR TO REMOVAL. REPLACE ANY TILES AND SUPPORTS DAMAGED AS A RESULT OF WORK. AMOUNT OF CEILING TO BE REMOVED IS AT CONTRACTOR'S DISCRETION. REINSTALL ALL REMOVED CEILING AT COMPLETION OF WORK. MAKE EVERY EFFORT TO MINIMIZE OPEN CEILINGS.

GENERAL DEMOLITION NOTES:

1. DISCONNECT AND REMOVE ALL ELECTRICAL ITEMS ASSOCIATED WITH THE HVAC EQUIPMENT, LIGHTING FIXTURES, AND FIRE ALARM SYSTEM (WHEN NEW FIRE ALARM DEVICES ARE IN SERVICE) SHOWN ON THE DEMOLITION PLAN. DEMOLISHED ITEMS TO INCLUDE ALL SWITCHES, SAFETY SWITCHES, EMERGENCY LIGHTING POWER SUPPLIES AND BATTERIES, ELECTRICAL BOXES, RACEWAYS AND WIRING BACK TO THE POWER SOURCE. MAINTAIN POWER TO LOADS THAT ARE TO REMAIN BUT FED FROM CIRCUITS OF EQUIPMENT TO BE REMOVED; INTERCEPT AND EXTEND WIRING AS REQUIRED. CLEARLY MARK BREAKERS IN EXISTING PANEL AS "SPARE" FOR DEMOLISHED CIRCUITS AND UPDATE PANEL SCHEDULES. 2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND COSTS ASSOCIATED WITH

REQUIRED TO BE DEMOLISHED. 3. THE OWNER RETAINS THE FIRST RIGHT TO KEEP ANY REMOVED EQUIPMENT. REVIEW THE DISPOSITION OF

ALL EQUIPMENT WITH OWNER PRIOR TO REMOVAL. ALL EQUIPMENT AND OR MATERIAL BEING REMOVED IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RETAINED, DISPOSED OF, AND REMOVED FROM THE SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES.

4. QUANTITY OF HVAC EQUIPMENT SHOWN ON THE DEMOLITION DRAWINGS IS INDICATIVE OF EXISTING QUANTITY AND LOCATION. REFER TO THE MECHANICAL DEMOLITION DRAWINGS FOR QUANTITIES AND LOCATIONS OF HVAC EQUIPMENT TO BE DEMOLISHED. VERIFY ACTUAL QUANTITIES OF ASSOCIATED ELECTRICAL EQUIPMENT TO BE DEMOLISHED, SUCH AS DISCONNECT SWITCHES AND MOTOR STARTERS, AND INCLUDE IN BID.

REMOVE ALL ABANDONED EXISTING ELECTRICAL LIGHT FIXTURES, RACEWAYS, WIRING, CABLE, DEVICES, AND EQUIPMENT WHERE CEILINGS, WALLS, OR STRUCTURE ARE REMOVED. RACEWAYS MAY BE ABANDONED WHERE THEY ARE CONCEALED BY NEW CONSTRUCTION. LABEL ALL ABANDONED RACEWAYS AT EACH JUNCTION BOX.

6. PERFORM ALL REQUIRED PATCHING AND PAINTING AFTER DEMOLITION AS REQUIRED TO RESTORE SURFACES TO MATCH SURROUNDING SURFACE FINISHES.

7. TAG ALL EQUIPMENT AND DEVICES BEING REMOVED AND REINSTALLED WITH THE ROOM NUMBER AND LOCATION FROM WHICH IT IS BEING REMOVED TO ENSURE THAT IT IS REINSTALLED IN THE SAME ROOM

8. THE OWNER WILL REMOVE AND REINSTALL ALL MOVABLE EQUIPMENT AND FLOOR MOUNTED SHELVING UNLESS NOTED OTHERWISE. REMOVE, STORE AND REINSTALL EXISTING BUILT-IN EQUIPMENT AS

REMOVAL NOTES:

- DISCONNECT AND REMOVE ALL EXISTING LIGHTS AND ASSOCIATED LIGHT SWITCHES AS SHOWN INCLUDING EXIT SIGNS AND BATTERY POWERED LIGHTS AND ASSOCIATED BATTERIES AND BOXES. INSTALL COVER PLATES WHERE WALL SWITCHES WERE REMOVED AND NOT BEING REPLACED AND PAINT TO MATCH WALL FINISH. SEE GENERAL DEMOLITION NOTES ON DRAWING E001.
- DISCONNECT AND REMOVE POWER AND CONTROL WIRING FROM EXISTING EPO BACK TO ITS SOURCE. COORDINATE ALL WORK WITH THE MC.
 REMOVE, CLEAN AND STORE EXISTING CLOCK, SPEAKER, AND COVER FROM THE BACK BOX FOR REINSTALLATION AS SHOWN ON 2/E201. PROTECT THE WIRE CONNECTIONS IN
- THE BACK BOX FROM PAINT AND DIRT. BACK BOX IS TO REMAIN IN PLACE. 4 DISCONNECT AND REMOVE DATA JACK AND WIRING BACK TO THE SOURCE. TURN DATA JACK OVER TO OWNER.
- 5 PROTECT AND SUPPORT EXISTING FIRE ALARM DETECTORS AND NOTIFICATION DEVICES TO MAINTAIN FIRE ALARM SYSTEM SERVICE THROUGHOUT THE PROJECT UNTIL NEW DEVICES ARE IN SERVICE. COORDINATE ALL WORK WITH THE FIRE ALARM SYSTEM VENDOR. REFER TO GENERAL NOTES ON DRAWING E001 FOR ALL REMOVAL WORK.
- 6 DISCONNECT AND REMOVE WIRING FOR RECESSED RECEPTACLES AND REPLACE WITH BLANK FACEPLATE.
- DISCONNECT AND REMOVE WIRING FOR SURFACE MOUNTED RECEPTACLES AND ASSOCIATED WIREMOLD.
- B DISCONNECT AND REMOVE PROJECTOR, SPEAKERS, AND ASSOCIATED WIRING BACK TO SOURCE.
- DISCONNECT AND REMOVE FLOOR MOUNTED RECEPTACLES AND ASSOCIATED WIRING BACK TO SOURCE. REMOVE ASSOCIATED JUNCTION BOX AND SEAL FLUSH WITH FLOOR.
 DISCONNECT AND REMOVE EXTERIOR LIGHT FIXTURE AND MAINTAIN THE EXISTING BRANCH CIRCUIT WIRING TO THE OTHER LIGHTS ON THE CIRCUIT DATCH AND DAINT.
- BRANCH CIRCUIT WIRING TO THE OTHER LIGHTS ON THE CIRCUIT. PATCH AND PAINT THE WALL AS REQUIRED TO MATCH THE EXISTING WALL FINISH.

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INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOF REFERENCE/VERIFICATION ONLY.

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PROVIDE ONE WALL MOUNTED DUPLEX RECEPTACLE AND ONE WALL MOUNTED DATA OUTLET IN SEPARATE BACKBOXES ADJACENT TO THE PROJECTOR. COORDINATE REINSTALL CLOCK, SPEAKER, AND COVER THAT WERE REMOVED IN DRAWING 1/E101. COORDINATE LOCATIONS OF EPO SWITCHES AND KEYED RESET SWITCHES WITH PROVIDE NEW SURFACE MOUNTED TWO CHANNEL, METAL, WIREMOLD RACEWAY VERTICALLY DOWN AND HORIZONTALLY ALONG THE WALL APPROXIMATELY 48" AFF (UNLESS NOTED OTHERWISE) AS SHOWN ON DRAWING. COORDINATE THE EXACT LOCATION OF THE WIREMOLD MOUNTED RECEPTACLES AND THE EXACT HEIGHT AND LENGTH OF THE WIREMOLD WITH THE OWNER AND GC PRIOR TO BEGINNING OF WORK. COORDINATE LOCATION OF THE RECEPTACLE WITH THE LENGTH OF CORD PROVIDED 6 DO NOT INSTALL ANY ELECTRICAL DEVICES OR CONNECTIONS OTHER THAN THOSE PROVIDE AUTOMATIC AND MANUAL LIGHTING CONTROL AS SHOWN ON DETAIL 1/E7 PROVIDE CEILING AND FLOOR ANCHORED WHITE, METAL POWER POLE WITH (2) DUPLEX RECEPTACLES FOR POWER TO DESK PLUG STRIPS. MOUNT RECEPTACLES BELOW THE

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	W	RE		ž
	SIZE	NO.	EGAD GERVED	
			LIGHTS ROOM 310	2
			LIGHTS ROOM 310	2
			LIGHTS EXTERIOR	2
			SPARE	
	>			
	#12	3	RTU - 2	1
			SPACE	
	••••••		SPACE	
			SPACE	
			SPACE	
-			SPACE	
			SPACE	
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			AIC:	22K		
			MOUNT:	SURFACE	-	S
						E
	W	RE				ž
	SIZE	NO.		LOAD		
				SP	ARE	
~	#12	2	ROOM 3	805A SMAR	RTBOARD RECEPT	1
1	#12	2	R	OOM 305A	PLUGMOLD	1
1	#12	2	R	OOM 305A	PLUGMOLD	1
~	#12	2	R	OOM 305A	PLUGSTRIP	1
1	#12	2		ROOM 305	5A RECEPT	1
1	#12	2	RO	OM 305A E	DESK RECEPT	1
Ĩ	#12	2	RO	om 305A e	DESK RECEPT	1
	#12	2	RO	om 305A e	DESK RECEPT	1
	#12	2	RO	om 305A e	DESK RECEPT	1,2
	#12	2	RO	OM 305A E	DESK RECEPT	1
	#12	2	RO	om 305A e	DESK RECEPT	1
	#12	2	R	DOM 305A	GFI RECEPT	1, 2
~	#12	2	STOR	AGE CLOS	ET 305B RECEPT	1
	#12	2	RM 305	A GFI REC	CEPT UNDER SINK	1,2
	#12	2	F	ROOM 305	PLUGMOLD	1
~	#12	2	R	OOM 305A	PLUGMOLD	1
	#12	2	R	OOM 305A	PLUGMOLD	1
	#12	2	R	OOM 305A	PLUGMOLD	1

1 3	CHEDULE FOR EXISTING ELECTRIC	AL PAI	VEL					N N	12-2		VOLT:	120/20	08V, 3F	PH, 4W		~			MOUNT: SURFACE	L S L
									_		BUS:	250A			MLO					75
				W	IRE		BKR	CKT	PH	HASE LO	AD	CKT	BKR				W	RE		٦Ĕ
	LOAD SERVED	WND	GRD	SIZE	NO.	KVA	SIZE	No.	А	В	С	No.	SIZE	KVA		GRD	SIZE	NO		\checkmark
	RM 305 LIGHTS	3/4"	#12	#12	2	1.0	20	1	1.8			2	20	0.8	3/4"	#12	#12	2	ROOM 305A ELECTRIC SHADES	2
	RM 305 LIGHTS	3/4"	#12	#12	2	10	20	3		21		4	20	11	3/4"	#12	#12	2	ROOM 305 POWER POLE	2
	RM 305 LIGHTS	3/4"	#12	#12	2	10	20	5			21	6	20	11	3/4"	#12	#12	2	ROOM 305 POWER POLE	2
	RM 305A LIGHTS	3/4"	#12	#12	2	1.0	20	7	21		<u> </u>	8	20	11	3/4"	#12	#12	2	ROOM 305 POWER POLE	- 2
	PM 305A LIGHTS	2/4"	#12	#12	2	1.0	20	0	۷.۱	24		10	20	1.1	2/4"	#12	#12	2		
		3/4	#12	#12	2	1.0	20	9		Z. I	10	10	20		3/4		#2			≯
		3/4	#12	#12		1.0	20				1.0	12	20		<u></u>			~		
	LIGHIS						20	13	1.0			14	20	1.0	3/4"	#12	#12	2	RIU - 1 RECEPT	2
	LIGHTS						20	15		1.0		<u> 16 </u>	20	1.0	3/4"	#12	#12	2	RTU - 2 RECEPT	2
	OFFICE LIGHTS & RECEPT						20	17			1.0	18	20	1.0	3/4"	#12	#12	2	ROOM CONTROLLER RM 305	2
	SPARE						20	19	1.0			20	20	1.0	3/4"	#12	#12	2	ROOM CONTROLLER RM 305A	2
·	SPARE						20	21		0.0		22							SPACE	
~	SPARE						20	23			0.0	24							SPACE	
**	SPARE						20	25	0.0			26							SPACE	
~	SPARE						20	27		0.0		28							SPACE	
	SPARE						20	20		0.0	0.0	30							SPACE	
							20	23	0.0		0.0	20							SPACE	
									0.0			32								
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	SPACE							35			0.0	36							SPACE	
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×	SPACE							41			0.0	42							SPACE	
1	TION: ROOM 305								5.9	5.2	4.1	PHAS	E KVA							
	XISTING LOAD																			
	XISTING LOAD																			
	XISTING LOAD										CENE				ΤΛ					
											GENE	RAL F	PANE	LDA	TA				AIC: 22K	
	CHEDULE FOR EXISTING ELECTRIC	CAL PAI	NEL					E	PP		GENE Volt:	RAL F 208/12	<b>PANE</b> 20V, 3F	<i>L DA</i> 7 РН, 4W	TA /				AIC: 22K MOUNT: SURFACE	
	CHEDULE FOR EXISTING ELECTRIC	CAL PAI	NEL					E	PP		GENE VOLT: BUS:	RAL F 208/12 125A	PANE 20V, 3F	L DA 7 PH, 4W	TA / MCB:	100			AIC: 22K MOUNT: SURFACE	DTES
	CHEDULE FOR EXISTING ELECTRIC		NEL GRD	W	IRE	KVA	BKR	Е	PP	HASE LO	GENE Volt: BUS: AD	RAL F 208/12 125A CKT	<b>PANE</b> 20V, 3F	<u>L DA 1</u> РН, 4W	TA / MCB: cond	100 GRD	W	RE	AIC: 22K MOUNT: SURFACE	NOTES
	CHEDULE FOR EXISTING ELECTRIC		NEL GRD	W SIZE	IRE NO.	KVA	BKR SIZE	CKT No.		HASE LC	GENE VOLT: BUS: AD C	RAL F 208/12 125A CKT No.	PANE 20V, 3F BKR SIZE	<i>L DA</i> РН, 4W КVA	TA / MCB: COND	100 GRD	- WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED	NOTES
	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED		NEL GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20	CKT No. 1	PF A 0.0	HASE LO	GENE VOLT: BUS: AD C	RAL F 208/12 125A CKT No. 2	PANE 20V, 3F BKR SIZE 20	L DAT PH, 4W KVA	TA / MCB: cond	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN	NOTES
S (	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP		VEL GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20 20	CKT No. 1 3	PP A 0.0	HASE LC B 0.0	GENE VOLT: BUS: AD C	RAL F 208/12 125A CKT No. 2 4	PANE 20V, 3F BKR SIZE 20 20	L DAT PH, 4W	TA / MCB: cond	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2	NOTES
	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE		VEL GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20 20 20	CKT No. 1 3 5	PP A 0.0	HASE LC B 0.0	GENE VOLT: BUS: AD C 0.0	RAL F 208/12 125A CKT No. 2 4 6	PANE 20V, 3F BKR SIZE 20 20 20	L DAT PH, 4W KVA	TA / MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1	NOTES
	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REFRIG)		VEL GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20 20 20 20	CKT No. 1 3 5 7	PF A 0.0 0.0	HASE LC B 0.0	GENE VOLT: BUS: AD C 0.0	RAL F 208/12 125A CKT No. 2 4 6 8	PANE 20V, 3F BKR SIZE 20 20 20 20 20	L DAT PH, 4W KVA	TA / MCB: cond	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM	
	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C		NEL GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20 20 20 20 20 20	CKT No. 1 3 5 7 9	PF A 0.0 0.0	HASE LO B 0.0 0.0	GENE VOLT: BUS: AD C 0.0	RAL F 208/12 125A CKT No. 2 4 6 8 10	PANE 20V, 3F BKR SIZE 20 20 20 20 20 20 20	L DAT PH, 4W	TA / MCB: cond	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM	NOTES -
	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C GENERATOR BATTERY CHARGER		VEL GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11	PF A 0.0 0.0	HASE LC B 0.0 0.0	GENE VOLT: BUS: AD C 0.0	RAL F 208/12 125A CKT No. 2 4 6 8 10 12	PANE 20V, 3F BKR SIZE 20 20 20 20 20 20 20 20 20	L DAT PH, 4W	TA / MCB: cond	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM	
	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C GENERATOR BATTERY CHARGER GENERATOR HEATER		VEL GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11 13	PF A 0.0 0.0	HASE LC B 0.0 0.0	GENE VOLT: BUS: AD C 0.0	RAL F 208/12 125A CKT No. 2 4 6 8 10 12 14	PANE 20V, 3F 8KR SIZE 20 20 20 20 20 20 20 20 20 20	L DAT PH, 4W	TA / MCB: cond	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM HEAT TRACE @ COOL TOWER	
	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C GENERATOR BATTERY CHARGER GENERATOR HEATER GENERATOR RECEPTACLE		GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11 13 15	PP A 0.0 0.0	HASE LC B 0.0 0.0	GENE VOLT: BUS: AD C 0.0	RAL F 208/12 125A CKT No. 2 4 6 8 10 12 14 16	PANE 20V, 3F 20V, 3F 20 20 20 20 20 20 20 20 20 20 20 20	L DAT PH, 4W	TA / MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM HEAT TRACE @ COOL TOWER FXHAUST PANEL	
	CHEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C GENERATOR BATTERY CHARGER GENERATOR HEATER GENERATOR RECEPTACLE BOIL RM RECEPT		GRD	W SIZE	IRE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11 13 15 17	PP A 0.0 0.0	HASE LC B 0.0 0.0	GENE VOLT: BUS: AD C 0.0	RAL F 208/12 125A CKT No. 2 4 6 8 10 12 14 16 18	PANE 20V, 3F 20V, 3F 20 20 20 20 20 20 20 20 20 20 20 20 20	L DAT PH, 4W	TA / MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM HEAT TRACE @ COOL TOWER EXHAUST PANEL BOILER PLIMP 9 START CONT	
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				SIZE	NO.		SIZE	INO.	A	B	C	NO.	SIZE		$\sim$	$\sim$			$\frown \frown $	
	RM 305 LIGHTS	3/4"	#12	#12	2	1.0	20	1	1.8			2	20	0.8	3/4"	#12	#12	2	ROOM 305A ELECTRIC SHADES	2
	RM 305 LIGHTS	3/4"	#12	#12	2	1.0	20	3		2.1		4	20	1.1	3/4"	#12	#12	2	ROOM 305 POWER POLE	2
	RM 305 LIGHTS	3/4"	#12	#12	2	1.0	20	5			21	6	20	11	3/4"	#12	#12	2	ROOM 305 POWER POLE	2
	RM 3054 LIGHTS	3//"	#12	#12	2	1.0	20	7	21		2.1	R R	20	1.1	3//"	#12	#12	2	ROOM 305 POWER POLE	2
	DM 305A LICHTS	2/4"	#12	#12	2	1.0	20	0	Ζ. Ι	21		10	20	1.1	2/4"	#12	#12	2		2
		3/4	#12	#12	2	1.0	20	9		Z. I	10	10	20		3/4	#12	#4	$\sim$		メ
		3/4	#1Z	#12	Z	1.0	20	11			1.0		20		o / 411			~	SPARE	
	LIGHTS						20	13	1.0			14	20	1.0	3/4"	#12	#12	2	RIU - 1 RECEPT	2
	LIGHIS						20	15		1.0		16	20	1.0	3/4"	#12	#12	2	RIU - 2 RECEPT	2
	OFFICE LIGHTS & RECEPT						20	17			1.0	18	20	1.0	3/4"	#12	#12	2	ROOM CONTROLLER RM 305	2
	SPARE						20	19	1.0			20	20	1.0	3/4"	#12	#12	2	ROOM CONTROLLER RM 305A	2
	SPARE						20	21		0.0		22							SPACE	
	SPARE						20	23			0.0	24							SPACE	
	SPARE						20	25	0.0			26							SPACE	
	SPARE						20	27	0.0			28							SPACE	
							20	21		0.0	0.0	20							SDACE	
							20	29	0.0		0.0	30							SFACE	
	SPARE						20	31	0.0			32							SPACE	
	SPACE							33		0.0		34							SPACE	
	SPACE							35			0.0	36							SPACE	
	SPACE							37	0.0			38							SPACE	
	SPACE							39		0.0		40							SPACE	
	SPACE							41			0.0	42							SPACE	
CATI	ON: ROOM 305								5.9	5.2	4.1	PHAS	E KVA							
TES										15 1		TOTAL	I KVA	~						
<u> </u>																			410	
Τ								_			GENE	RALF	PANE	L DA1	Γ <b>Α</b>				AIC: 22K	
SC	HEDULE FOR EXISTING ELECTRIC	AL PAI	NEL					E	PP		<b>GENE</b> Volt:	RAL P	PANE 20V, 3F	<b>L DA7</b> РН, 4W	ΓA				AIC: 22K MOUNT: SURFACE	(),
SC	HEDULE FOR EXISTING ELECTRIC	AL PAI	NEL					E	PP		GENE VOLT: BUS:	RAL F 208/12 125A	PANE 20V, 3F	L DA7 PH, 4W	MCB:	100			AIC: 22K MOUNT: SURFACE	DTES
SC.	HEDULE FOR EXISTING ELECTRIC			W	IRE	KVA	BKR	СКТ		HASE LO	GENE VOLT: BUS: AD	RAL F 208/12 125A CKT	PANE 20V, 3F	<u>L DA7</u> рн, 4W		100 CPD	W	RE	AIC: 22K MOUNT: SURFACE	NOTES
SC	HEDULE FOR EXISTING ELECTRIC	COND	VEL GRD	WI SIZE	IRE	KVA	BKR	CKT No.		HASE LO	GENE VOLT: BUS: AD C	ERAL F 208/12 125A CKT No.	PANE 20V, 3F BKR SIZE	<u>L DA7</u> PH, 4W КVA	MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED	NOTES
sc	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE	COND	NEL GRD	WI SIZE	RE NO.	KVA	BKR SIZE 20	CKT No.	PI A 0.0	HASE LO	GENE VOLT: BUS: AD C	RAL F 208/12 125A CKT No. 2	PANE 20V, 3F BKR SIZE 20	L DA1 PH, 4W	MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN	
SC.	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP	COND	GRD	WI SIZE	RE NO.	- KVA	BKR SIZE 20 20	CKT No. 1 3	P A 0.0	HASE LO B	GENE VOLT: BUS: AD C	RAL F         208/12         125A         CKT         No.         2         4	PANE 20V, 3F BKR SIZE 20 20	L DA1 PH, 4W KVA	MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2	
sc	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE	COND	GRD	WI SIZE	RE NO.	- KVA	BKR SIZE 20 20 20	CKT No. 1 3 5	P A 0.0	HASE LC B 0.0	GENE VOLT: BUS: AD C	RAL F           208/12           125A           CKT           No.           2           4           6	PANE 20V, 3F BKR SIZE 20 20 20	<u>L DA1</u> PH, 4W КVА	MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1	
sc	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REERIG)	COND	GRD	SIZE	RE NO.	- KVA	BKR SIZE 20 20 20 20	CKT No. 1 3 5 7	P	HASE LO B 0.0	GENE VOLT: BUS: AD C	RAL F           208/12           125A           CKT           No.           2           4           6           8	PANE 20V, 3F BKR SIZE 20 20 20 20	L DA1 PH, 4W	MCB: COND	100 GRD	SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH BOOM	
sc	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REFRIG) RECEPTACI E MDE-C	COND	GRD	WI SIZE	RE NO.	- KVA	BKR SIZE 20 20 20 20 20	CKT No. 1 3 5 7	PI A 0.0	HASE LO B 0.0	GENE VOLT: BUS: AD C 0.0	RAL F           208/12           125A           CKT           No.           2           4           6           8           10	PANE 20V, 3F BKR SIZE 20 20 20 20 20	L DA1 PH, 4W KVA	MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM	
sc	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C	COND	GRD	WI SIZE	IRE NO.	- KVA	BKR SIZE 20 20 20 20 20 20	CKT No. 1 3 5 7 9	P A 0.0 0.0	HASE LO B 0.0 0.0	GENE VOLT: BUS: AD C 0.0	RAL F           208/12           125A           CKT           No.           2           4           6           8           10	PANE 20V, 3F BKR SIZE 20 20 20 20 20 20	L DA1 PH, 4W KVA	MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM PECERTACIE @ DA SYSTEM	
sc	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C GENERATOR BATTERY CHARGER	COND	GRD	WI SIZE	RE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11	P A 0.0 0.0	HASE LC B 0.0 0.0	GENE VOLT: BUS: OAD C 0.0	RAL F           208/12           125A           CKT           No.           2           4           6           8           10           12	PANE 20V, 3F BKR SIZE 20 20 20 20 20 20 20	L DA1 PH, 4W KVA	MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM	
	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C SENERATOR BATTERY CHARGER GENERATOR HEATER	COND	GRD	SIZE	RE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11 13	P A 0.0 0.0	HASE LC B 0.0 0.0	GENE VOLT: BUS: OAD C 0.0	RAL F           208/12           125A           CKT           No.           2           4           6           8           10           12           14	PANE 20V, 3F BKR SIZE 20 20 20 20 20 20 20 20 20	L DA1 PH, 4W KVA	MCB: COND	100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM HEAT TRACE @ COOL TOWER	
sc	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C SENERATOR BATTERY CHARGER GENERATOR HEATER GENERATOR HEATER		VEL GRD	SIZE	RE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11 13 15	P A 0.0 0.0	HASE LC B 0.0 0.0 0.0	GENE VOLT: BUS: DAD C 0.0	RAL F           208/12           125A           CKT           No.           2           4           6           8           10           12           14           16	PANE 20V, 3F BKR SIZE 20 20 20 20 20 20 20 20 20 20 20 20	L DA7 PH, 4W KVA		100 GRD	SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM HEAT TRACE @ COOL TOWER EXHAUST PANEL	
SC	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C GENERATOR BATTERY CHARGER GENERATOR HEATER GENERATOR HEATER BOIL RM RECEPT		VEL GRD	SIZE	RE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11 13 15 17	P A 0.0 0.0	HASE LC B 0.0 0.0 0.0	GENE VOLT: BUS: AD C 0.0 0.0 0.0	RAL F           208/12           125A           CKT           No.           2           4           6           8           10           12           14           16           18	PANE 20V, 3F BKR SIZE 20 20 20 20 20 20 20 20 20 20 20 20 20	L DA7 PH, 4W KVA		100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM HEAT TRACE @ COOL TOWER EXHAUST PANEL BOILER PUMP 9 START CONT	
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G	HEDULE FOR EXISTING ELECTRIC LOAD SERVED SPARE SUMP PUMP SPARE GAS MONITOR (REFRIG) RECEPTACLE MDF-C SENERATOR BATTERY CHARGER GENERATOR HEATER GENERATOR HEATER GENERATOR RECEPTACLE BOIL RM RECEPT SOLAR MONITORING WALK IN FREEZER		VEL GRD		RE NO.	- KVA	BKR SIZE 20 20 20 20 20 20 20 20 20 20 20 20 20	CKT No. 1 3 5 7 9 11 13 15 17 19 21 23	PI A 0.0 0.0 0.0	HASE LO B 0.0 0.0 0.0 0.0	GENE VOLT: BUS: DAD C 0.0 0.0 0.0 0.0 0.0	RAL F           208/12           125A           CKT           No.           2           4           6           8           10           12           14           16           18           20           22           24	PANE 20V, 3F BKR SIZE 20 20 20 20 20 20 20 20 20 20 50	L DA1 PH, 4W KVA		100 GRD	WI SIZE	RE NO.	AIC: 22K MOUNT: SURFACE LOAD SERVED FIRE ALARM - MAIN FIRE ALARM - BOOSTER #2 BOILER #1 ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM ATC PANEL @ MECH ROOM RECEPTACLE @ PA SYSTEM HEAT TRACE @ COOL TOWER EXHAUST PANEL BOILER PUMP 9 START CONT KITCHEN - COOLER PANEL	
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SHEET NOTES:

2 #12, 1 #12G, 3/4" CONDUIT WIRING UNLESS OTHERWISE INDICATED. PROVIDE THE REQUIRED BOXES AND CONNECTORS FOR WIRING WHERE THE MANUFACTURER RECOMMENDS ONE WIRE PER RECEPTACLE TERMINAL.

 $\langle 2 \rangle$ WIRING AS REQUIRED BY THE EQUIPMENT MANUFACTURER AND THE NATIONAL ELECTRICAL CODE. PROVIDE WIRING IN 3/4" CONDUIT WHERE CONCEALED IN WALLS.

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## PLUMBING

NEW OR REMOVAL WORK (REFER TO PLAN)

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GAS
STORM DRAIN
VENT
ACID WASTE
ACID VENT
DOMESTIC COLD WATER
CHILLED DRINKING WATER SUPPLY
CHILLED DRINKING WATER RETURN
DOMESTIC HOT WATER
DOMESTIC HOT WATER RETURN
DEIONIZED WATER
DOMESTIC HOT WATER (140°)
DOMESTIC HOT WATER RETURN (140°)
DOMESTIC HOT WATER (180°) DOMESTIC HOT WATER RETURN (180°)
FIRST AID PIPING
PRE ACTION SPRINKLER PIPING
DRY SPRINKLER PIPING
FORCED SANITARY / STORM MAIN
SPRINKLER PIPING
AUTOMATIC FIRE SPRINKLER SYSTEM DRAIN
FUEL OIL SUPPLY
REGULAR UNLEADED GASOLINE
PREMIUM GASOLINE
DIESEL FUEL
GASOLINE VENT
LUBRICATING OIL
WASTE OIL
WASTE OIL VENT
LABORATORY COMPRESSED AIR
VACUUM
LABORATORY WASTE
MEDICAL VACUUM
LABORATORY VACUUM
OXYGEN
LIQUID OXYGEN
HIGH PRESSURE STEAM (100-70 PSI)
HIGH PRESSURE CONDENSATE
NITROGEN
TEMPERED WATER
LAWN SPRINKLER SUPPLY
INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW
INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW FLOW - IN DIRECTION OF ARROW
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INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW FLOW - IN DIRECTION OF ARROW GATE VALVE GLOBE VALVE CHECK VALVE BALANCING VALVE
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INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW FLOW - IN DIRECTION OF ARROW GATE VALVE GLOBE VALVE GLOBE VALVE GLOBE VALVE BALANCING VALVE BALANCING VALVE BALL VALVE BALL VALVE ANGLE GATE VALVE VALVE ON RISE GAS PRESSURE REGULATOR GAS COCK, GAS STOP
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INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW FLOW - IN DIRECTION OF ARROW GATE VALVE GLOBE VALVE GLOBE VALVE BALANCING VALVE BALANCING VALVE BALL VALVE BALL VALVE BALL VALVE ANGLE GATE VALVE VALVE ON RISE GAS PRESSURE REGULATOR GAS COCK, GAS STOP SOLENOID VALVE TWO-WAY CONTROL VALVE
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INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW FLOW - IN DIRECTION OF ARROW GATE VALVE GLOBE VALVE GLOBE VALVE BALANCING VALVE BALANCING VALVE BALL VALVE BALL VALVE BALL VALVE BALL VALVE GAS PRESSURE REGULATOR GAS PRESSURE REGULATOR GAS COCK, GAS STOP SOLENOID VALVE TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE
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INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW FLOW - IN DIRECTION OF ARROW GATE VALVE GLOBE VALVE GLOBE VALVE GLOBE VALVE GLOBE VALVE BALANCING VALVE BALL VALVE BALL VALVE BALL VALVE BALL VALVE BALL VALVE ANGLE GATE VALVE ANGLE GATE VALVE CASPRESSURE REGULATOR GAS PRESSURE REGULATOR GAS COCK, GAS STOP SOLENOID VALVE TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE PRESSURE REDUCING VALVE RELIEF OR SAFETY VALVE
INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW GATE VALVE GLOBE VALVE GLOBE VALVE GLOBE VALVE BALANCING VALVE BALL VALVE BALL VALVE BALL VALVE BALL VALVE ANGLE GATE VALVE VALVE ON RISE GAS PRESSURE REGULATOR GAS COCK, GAS STOP SOLENOID VALVE TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE INION STRAINER
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INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW FLOW - IN DIRECTION OF ARROW GATE VALVE GLOBE VALVE GLOBE VALVE CHECK VALVE BALLANCING VALVE BALL VALVE BALL VALVE BALL VALVE BALL VALVE ANGLE GATE VALVE ANGLE GATE VALVE CASY PRESSURE REGULATOR GAS COCK, GAS STOP SOLENOID VALVE TWO-WAY CONTROL VALVE TWO-WAY CONTROL VALVE PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE CHIEF OR SAFETY VALVE UNION STRAINER STRAINER STRAINER FLOW SENSOR SIGHT GLASS
INDIRECT WASTE PIPING LAWN SPRINKLER SUPPLY PIPE SLOPE - IN DIRECTION OF ARROW FLOW - IN DIRECTION OF ARROW GATE VALVE GLOBE VALVE GLOBE VALVE BALANCING VALVE BALANCING VALVE BALL VALVE BALL VALVE BUTTERFLY VALVE ANGLE GATE VALVE VALVE ON RISE GAS PRESSURE REGULATOR GAS COCK, GAS STOP SOLENOID VALVE TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE RELIEF OR SAFETY VALVE UNION STRAINER STRAINER STRAINER STRAINER STRAINER STRAINER W/ BLOW-DOWN VALVE

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<u>ک</u>	PRESSURE GAUGE W
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<u>بہ ہ</u> ے	AUTOMATIC AIR VENT
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<b>، المحمد المحمد ا</b>	SHOCK ABSORBER
Fs , I ,	FLOW SWITCH
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;⇒+	HOSE BIB
	UPRIGHT SPRINKLER PENDANT SPRINKLER EXISTING SPRINKLER SIDE WALL WET SPRIN SIDE WALL DRY SPRIN DIAPHRAGM
${\leftarrow} {\leftarrow} $	METER
	ROOF DRAIN
$\overline{\bigcirc}$	PLAIN COMBO FLOOR
$\odot$	PLAIN ROUND FLOOR
	PLAIN SQUARE FLOOF
${\longleftarrow}$	BACK FLOW PREVENT
▼ 父	SHOWER HEAD SIAMESE CONNECTIO
€∋	PIPE TURNING DOWN
∼0	PIPE TURNING UP
<b>├──</b> ─	TEE UP
<del>≻                                     </del>	TEE DOWN
<del>}}</del>	DROP AND RUN
$\int_{\underline{\zeta}}$	DROP AND TURN
<u>ب</u>	TEE OFF TOP

## PLUMBING ABBREVIATIONS

AD AREA DRAIN

A.P. ACCESS PANEL

	PLUM
METER	
RE GAUGE W/ COCK	
W/ COCK	
TIC AIR VENT	
AT	
BSORBER	
VITCH	
RE SWITCH	
3	
SPRINKLER HEADS	
LL WET SPRINKLER HEADS	
LL DRY SPRINKLER HEADS	
GM	

### OMBO FLOOR DRAIN

UND FLOOR DRAIN

### QUARE FLOOR DRAIN

OW PREVENTER

CONNECTION RNING DOWN

BT	BATH TUB
В	BIDET
BS	BAR SINK
BFP	
CP	
CO	CLEAN OUT
C.I.	CAST IRON
СВ	CATCH BASIN
CSK	CUP SINK
DW	DISHWASHER
DS	DRY STANDPIPE
DD	
D.A.P.	
D.I.P.	DUCTILE IRON PIPE
ES	EMERGENCY SHOWER
EWC	ELECTRIC WATER COOLER
(E)	EXISTING
EW	EYE WASH
=.S.E.C.	FOOD SERVICE EQUIPMENT CONTRACTOR
FH	
FF	FIRE EXTINGUISHER
F.D.V.	FIRE DEPARTMENT VALVE
F.D.C.	FIRE DEPARTMENT CONNECTION
F.A.I.	FRESH AIR INLET
F.C.V.	FLOW CONTROL VALVE
FD	FLOOR DRAIN
F.H.C.	
G	GAS OUTLET
GD	GARAGE DRAIN
GT	GARAGE TRAP
HB	HOSE BIBB
I.E.	
LAV	LAVATORY
LT	LAUNDRY TUB
KS	KITCHEN SINK
MR	MOP RECEPTOR
N	
PVC	POLY VINYL CHLORIDE
P.I.V.	POST INDICATOR VALVE
PRV	PRESSURE REGULATING VALVE
Q.Z.V.	QUADRUPLE ZONE VALVE BOX
Q.A.P.	QUADRUPLE ALARM PANEL
R.C.P.	REINFORCED CONCRETE PIPE
S.A.	SHOCK ABSORBER
SH	SHOWER
S	SANITARY
SW	SAFE WASTE
SMH STMH	
SS	SERVICE SINK
SK	SINK
SL	SURGEONS LAVATORY
тс	TERRA COTTA
T.A.P.	
т. <u>2</u> .v. ТЕ	
ТВ	THRUST BLOCK
TS	TAMPER SWITCH
UR	URINAL
$\frac{V}{V}$	VACUUM
VTR	VENT THRU ROOF
VB	VACUUM BREAKER
YH	YARD HYDRANT
WC	WATER CLOSET
WH wp	WALL HYDRANT
W	WASTE

## PLUMBING GENERAL NOTES:

- 1. GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS.
- 2. COORDINATE AND FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES, AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICT ARISES, MAKE ANY NECESSARY CHANGES TO ROUTING OF PIPING WITHOUT COMPROMISING THE INTEGRITY AND PERFORMANCE OF THE SYSTEM, AND AT NO ADDITIONAL COST TO THE OWNER.
- 3. PROVIDE ALL ASSOCIATED LIFE SAFETY DEVICES FOR ALL PIPING PENETRATIONS.
- 4. PLUMBING PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS.
- 5. COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, ELECTRICAL, HVAC, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- 6. EQUIPMENT INSULATION SHALL BE INSTALLED AS NOT TO CONCEAL THE EQUIPMENT NAME PLATE.
- 7. PLUMBING REMOVAL WORK IN THE BUILDING SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR INCLUDING PLUMBING EQUIPMENT, SYSTEMS, APPARATUS, AND ACCESSORIES.
- 8. THE DRAWINGS SHOW A GENERAL REPRESENTATION OF QUANTITIES AND LOCATIONS OF EXISTING PLUMBING COMPONENTS AND SYSTEMS, AND ARE NOT ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE REMOVAL OF THE PLUMBING BUILDING SYSTEMS TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED. REMOVAL WORK IS TO INCLUDE, BUT NOT LIMITED TO REMOVAL OF EQUIPMENT, APPARATUS, SYSTEM ACCESSORIES, PIPING, INSULATION, DOMESTIC WATER HEATERS, VALVES, DROPS, RISERS, AUXILIARY SYSTEMS/PIPING/CONTROLS, VALVES, PIPING ACCESSORIES, CONTROLS, CONTROL WIRING/TUBING, CONDUITS, BASES, SUPPORTS, HANGERS AND SYSTEM APPURTENANCES.
- 9. ENSURE ALL WORK IS IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE CONSTRUCTION CODE. AND ALL OTHER FEDERAL. STATE. AND LOCAL AGENCY REGULATIONS HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT OF ANY DISCREPANCIES BETWEEN AGENCY REQUIREMENTS, OBSERVE THE MORE STRINGENT OF REQUIREMENTS.
- 10. ALL WORK SHALL COMPLY WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS (NBFU), INDUSTRIAL RISK INSURANCE UNDERWRITERS (IRI), FACTORY MUTUAL (FW), OR THE APPLICABLE RATING BUREAU, THE NATIONAL ELECTRIC CODE (NEC), THE AMERICAN GAS ASSOCIATION (AGA), AND THE AMERICAN SOCIETY OF HEATING AND AIR CONDITIONING ENGINEERS (ASHRAE), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND THE REQUIREMENTS OF ALL PUBLIC UTILITY COMPANIES SERVING THE PROJECT SITE.
- 11. COORDINATE LOCATION OF ALL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT WITH THE RESPECTIVE TRADE CONTRACTORS.
- 12. ALL EQUIPMENT AND OR MATERIAL BEING REMOVED IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR AND WILL BE RETAINED, DISPOSED OF, AND REMOVED FROM THE SITE AT THE DIRECTION OF THE OWNER.
- 13. NOTE THAT THE IDENTIFICATION LABELS TO BE USED/MADE FOR ALL SYSTEMS MUST USE THE OWNER'S ROOM NUMBERS AND ROOM NAMES, NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH THE OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO LABELING SYSTEMS.
- 14. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL CUTTING AND PATCHING NECESSARY TO PERFORM ABOVE SLAB WORK. MATCH EXISTING MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING. _____
- 15. ALL PIPING TO BE CONCEALED UNLESS OTHERWISE INDICATED. 16. PROVIDE ALL NECESSARY HANGERS AND/OR SUPPORTS TO FACILITATE INSTALLATION OF ALL PIPING, EQUIPMENT, ETC

FLASHING FOR ROOF CURBS FURNISHED BY GENERAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR. COUNTER FLASHING FOR ROOF CURBS FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR. OPENINGS IN ROOF FOR ROOF CURBS PROVIDED BY PLUMBING

17. PLUMBING CONTRACTOR TO COORDINATE ALL PLUMBING VALVE ACCESS WITH G.C. 

(18. NOT USED ALL ROOF CURBS FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR.

CONTRACTOR.

0

INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

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![](_page_36_Figure_35.jpeg)

DATE

![](_page_37_Figure_0.jpeg)

## **GENERAL SHEET NOTES:**

- 1. FIELD VERIFY EXISTING CONDITIONS AND LOCATIONS PRIOR TO WORK. IMMEDIATELY REPORT ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THE DRAWINGS TO THE ARCHITECT OR OWNER.
- 2. ALL EQUIPMENT AND OR MATERIAL BEING REMOVED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RETAINED OR DISPOSED OF AND REMOVED FROM THE SITE AT THE DIRECTION OF THE OWNER.
- 3. SCHEDULE ALL TEMPORARY SHUTDOWNS OF EQUIPMENT OR SYSTEMS WITH THE OWNER PRIOR TO WORK.

## NEW WORK NOTES:

- (1) (1) COUNTER MOUNTED SINK (SK-1) FURNISHED BY OTHERS INSTALLED BY PLUMBING CONTRACTOR. FURNISH AND INSTALL DRAIN, TAILPIECE, TRAP AND TRAP ARM. 2"S FROM SK-1 AND DRAIN TO ADJACENT EJECTOR PUMP (SE-1). ROUTE SAN PIPING THROUGH/IN WALL AS REQUIRED TO KEEP HIDDEN FROM VIEW. FURNISH AND INSTALL MIXING VALVE (MV-1) WITHIN CASEWORK BELOW SK-1 IN AN ACCESSIBLE LOCATION. 1/2"CW&HW TO MV-1, 1/2"CW & HW(105°F) FROM MV-1 UP TO SK-1 FAUCET ASSEMBLY WITH ANGLE STOP VALVES AND STAINLESS STEEL FLEXIBLE CONNECTIONS. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR.
- DROP 3/4"CW&HW DOWN IN WALL AND OFFSET BELOW WINDOW TO SK-1 CASEWORK. (3) INSTALL COUNTER MOUNTED EMERGENCY EYEWASH (EEW-1) FURNISHED BY
- OTHERS. LOCATE EEW-1 ON SK-1 DECK. INSTALL MIXING VALVE (MV-2) WITHIN CASEWORK BELOW SK-1 IN AN ACCESSIBLE LOCATION. 1/2"CW&HW TO MV-2, 1/2"TEPID FROM MV-2 UP TO EEW-1 ASSEMBLY WITH SHUT-OFF. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR.
- 1 FURNISH AND INSTALL SEWAGE EJECTOR PUMP (SE-1) WITH BASIN, LID, CONTROL PANEL WITH FLOATS AND CHECK VALVE. MOUNT UNIT ABOVE FLOOR WITHIN CASEWORK NEAR LOCATION INDICATED. COORDINATE FINAL PLACEMENT WITH ARCHITECT. COORDINATE POWER CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.
- 2" VENT THRU ROOF (VTR) SHOWN IN APPROXIMATE LOCATION. EXTEND VENT UP THROUGH ROOF WITH PENETRATION THIMBLE, FLASHING COLLAR AND CLAMP. COORDINATE FINAL PLACEMENT OF VTR WITH THE ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH IN. ADJUST FINAL PLACEMENT TO MAINTAIN 10' MIN FROM ALL OUTSIDE AIR INTAKES AND AVOID CONFLICTS WITH ROOF MOUNTED SOLAR PANELS/EQUIPMENT.
- CONTRACTOR SHALL VERIFY IN FIELD EXISTING 2" SANITARY STUB NEAR LOCATION INDICATED REMAINING FROM DEMOLITION. EXTEND AND CONNECT NEW 2"S(FM) AND 2"V TO EXISTING. MODIFY EXISTING PIPING AS REQUIRED. COORDINATE CUTTING/PATCHING/PAINTING WITH THE GENERAL CONTRACTOR.
- CONTRACTOR SHALL VERIFY IN FIELD EXISTING CW&HW MAINS ABOVE THE CORRIDOR NEAR LOCATION INDICATED. EXTEND AND CONNECT NEW 3/4"CW&HW TO EXISTING. MODIFY EXISTING PIPING AS REQUIRED. COORDINATE CUTTING/CORING/PATCHING/PAINTING WITH THE GENERAL CONTRACTOR.
- 3/4"CW&HW DROP DOWN TO CRAWLSPACE BELOW. FURNISH AND INSTALL WALL/FLOOR SLEEVES FOR ALL PIPE PENETRATIONS AS REQUIRED. COORDINATE SAW-CUTTING, HOLE CORING, PATCHING AND FINAL PLACEMENT WITH THE ARCHITECT AND GENERAL CONTRACTOR. SEAL TO MATCH FIRE RATING OF WALLS PIPES PASS THROUGH.

![](_page_37_Figure_14.jpeg)