#### ADDENDUM NUMBER 003

DATE: March 20, 2025

**PROJECT**: Jonesboro Municipal Airport Terminal **OWNER**: Jonesboro Municipal Airport Commission **ARCHITECT**: Cooper Mixon Architects, PLLC

#### **TO: BIDDERS**

This Addendum forms a part of the Contract Documents and modifies the original Procurement Documents dated October 14, 2024, with amendments and additions noted below. Acknowledge receipt of this Addendum in the space provided in the bid form. Failure to do so may disqualify the bidder.

This Addendum consists of the following documents and revisions:

## CHANGES TO THE PROJECT MANUAL – INTRODUCTORY REQUIREMENTS, PROCUREMENT REQUIREMENTS AND CONTRACTING REQUIREMENTS:

- 1. Replace Section 00 01 10 Table of Contents with revised Section issued with this Addendum.
- 2. Insert (this) Section 00 91 13 Addendum Number 003 issued with this Addendum.
- 3. Replace Section 00 41 00 Bid Form with revised Section issued with this Addendum.

#### CHANGES TO THE PROJECT MANUAL – SPECIFICATIONS

- 1. Replace Section 26 51 00 INTERIOR LIGHTING with revised Section issued with this Addendum.
- 2. Replace Section 26 56 00 EXTERIOR LIGHTING with revised Section issued with this Addendum.
- 3. Replace Section 28 46 00 FIRE DETECTION AND ALARM with revised Section issued with this Addendum.

#### CHANGES TO THE DRAWINGS:

1. Insert the following attached revised Drawings and new drawings issued with this Addendum:

#### Sheet Title/Description

#### ARCHITECTURAL

A-111	FLOOR PLAN
A-121	REFLECTED CEILING PLAN
A-142	FINISH FLOOR PLAN EPOXY TERRAZZO

#### SEPT 2024 CONSTRUCTION DOCUMENTS

A-302	BUILDING SECTIONS
A-601	ALUMINUM FRAME & CURTAIN WALL ELEVATIONS

### ELECTRICAL

E002	SITE PLAN - ELECTRICAL
E102	FLOOR PLAN – POWER AND SYSTEMS
E301	ELECTRICAL SCHEDULES

#### PRE-BID RFI'S:

#	Status	Title	Question	Official response
PB RFI 14.7	Answered	Fire Alarm	Please provide Fire Alarm Specification	See Specification Section provided with this addendum.
PB RFI 15	Reserved			
PB RFI 16	Answered	Non- Reinforced Concrete	What is the scope of the non-reinforced airside concrete pavement.	All concrete on the airside of the terminal is non- reinforced. See diagram below.
PB RFI 17	Answered	Building Insulation, Purlins, and Soffits	<ul> <li>the plans call for the roof insulation to fill the purlin cavity. We can price R35 (8" R25 + 3"R10) that will work for both 8" and 10" purlins unless you know what the purlin depth will be from the metal building</li> </ul>	<ul> <li>Add 7/8" 20 gauge hat channel at all eave and rake soffits.</li> <li>Fill all purlin cavities. Coordinate insulation with PEMB purlin depth. For example. R30 as required for 8" purlins. R35 as required for 10" purlins.</li> <li>Extend full purlin depth building insulation into all eave and rake soffits.</li> <li>Exterior walls are steel studs, insulate accordingly.</li> </ul>

ADDENDUM 002

SEPT 2024 CONSTRUCTION DOCUMENTS

			manufacturer. Some details show the overhangs to be fully insulated and some with no insulation. We usually insulate the over hangs with only the top layer of unfaced insulation to prevent condensation and frost line where the soffit is located outside the building envelope. How should we address the overhangs with soffit? It appears that the wall insulation will be for steel studs not metal building insulation, correct?	
PB RFI 18	Answered	Primary Feeders	What is the distance and location of the primary conduits from transformer to primary power.	See Revised Drawing with this addendum.
PB RFI 19	Answered	Resinous Flooring	Substitution Request	Substitution Request for Resinous Flooring included in this addendum is acceptable.
PB RFI 20	Answered	Roller Shades	Need clarification on scope.	See Revised Drawing with this addendum

### **END OF SECTION**

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#### SECTION 01 25 10 SUBSTITUTION REQUEST FORM

#### DATE: <u>3/20/25</u>

**PROJECT NAME:** Jonesboro Municipal Airport Terminal Building

Company Submitting Request (name and address):

Olympus Construction, 2506 west washington avenue, Jonesboro AR 72401

Contact Name: <u>guy pardew</u>

Phone: 870-932-6670

Email: guy@olympusgc.com

SPECIFIED ITEM (Section, Page, and Description): 09 67 23 - 1

PROPOSED SUBSTITUTION (Provide product name, Model, manufacturer): Hermetic<sup>™</sup> Colored Quartz double broadcast, Elitecrete Systems

Differences between proposed substitution and specified product: higher bond to concrete, compressive strength, tensil strength

## POINT-BY-POINT COMPARATIVE DATA SHEET ATTACHED - REQUIRED BY ARCHITECT FOR THIS REQUEST:

- A. Attached Data includes product description, specifications, drawings, photographs, and performance and test data, applicable portions of the data adequate for the evaluation of the request, and with applicable portions of the data clearly identified.
- B. \_\_\_\_yes \_\_\_\_no changes will be required to the Contract Documents for the proper installation of proposed product substitution. If yes, then attach data that includes description of changes.

## THE UNDERSIGNED CERTIFIES THAT THE FOLLOWING PARAGRAPHS, UNLESS MODIFIED BY ATTACHMENTS, ARE CORRECT:

- C. Proposed substitution has been fully investigated and determined to be equal or superior in all respects to the specified products performance.
- D. Proposed substitution does not affect the building design, engineering design, dimensions, detailing, or performance values.
- E. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements.
- F. No maintenance is required by the proposed substitution other than that required for originally specified product.
- G. Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by substitution.

SIGNATURE \_

### 

#### ARCHITECT'S REVIEW AND ACTION:

- A. \_\_\_\_\_ Accepted As Noted \_\_\_\_\_ Incomplete Information
  - \_\_\_\_\_ Received Too Late \_\_\_\_\_ No Substitutions accepted for this product
- B. Reviewed By: \_\_\_\_\_ DATE:
- C. Processed by Addendum No.

SUBSTITUTION	REQUEST
FORM	

01 25 10 - 1

Date: 2025.03.21 17:30:23-05'00'

#### JONESBORO ARKANSAS MUNICIPAL AIRPORT TERMINAL BUILDING

SEPT 2024 CONSTRUCTION DOCUMENTS

D. Comments:

END OF SECTION

#### SECTION 00 01 10 TABLE OF CONTENTS

#### PROCUREMENT AND CONTRACTING REQUIREMENTS

#### **DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS**

00 01 05 - Certifications Page

- 00 01 10 Table of Contents
- 00 01 15 List of Drawing Sheets
- 00 11 13 Advertisement for Bids
- 00 21 13 Instructions to Bidders
- 00 31 00 Available Project Information
- 00 41 00 Bid Form
- 00 50 00 Contracting Forms and Supplements
- 00 52 00 Agreement Form
- 00 72 00 General Conditions
- 00 73 00 Supplementary Conditions
- 00 91 11 ADDENDUM 001
- 00 91 12 ADDENDUM 002
- 00 91 13 ADDENDUM 003

#### SPECIFICATIONS

#### **DIVISION 01 -- GENERAL REQUIREMENTS**

- 01 10 00 Summary
- 01 20 00 Price and Payment Procedures
- 01 21 00 Allowances
- 01 22 00 Unit Prices
- 01 23 00 Deductive Alternates
- 01 25 00 Substitution Procedures
- 01 30 00 Administrative Requirements
- 01 32 16 Construction Progress Schedule
- 01 40 00 Quality Requirements
- 01 42 16 Definitions
- 01 45 33 Code-Required Special Inspections
- 01 50 00 Temporary Facilities and Controls
- 01 51 00 Temporary Utilities
- 01 52 00 Site Safety Plan
- 01 57 23 Temporary Storm Water Pollution Control
- 01 58 13 Temporary Project Signage

Table of Contents

01 60 00 - Product Requirements 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions 01 70 00 - Execution and Closeout Requirements 01 74 19 - Construction Waste Management and Disposal 01 78 00 - Closeout Submittals 01 79 00 - Demonstration and Training **DIVISION 02 -- EXISTING CONDITIONS** For Site Preparation and Earthwork, see Division 31 For Pile and Other Foundations, see Division 31 For Pavements and Site Improvements, see Division 32 For Site Utilities, see Division 33 02 41 16 - Structure Demolition **DIVISION 03 -- CONCRETE** 03 10 00 - Concrete Forming and Accessories 03 32 00 - Concrete Reinforcing 03 30 00 - Cast-in-Place Concrete 03 45 00 - Precast Architectural Concrete **DIVISION 04 -- MASONRY** 04 20 00 - Unit Masonry **DIVISION 05 -- METALS** 05 31 00 - Steel Decking 05 40 00 - Cold-Formed Metal Framing 05 50 00 - Metal Fabrications 05 52 13 - Pipe and Tube Railings **DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES** 06 10 00 - Rough Carpentry 06 41 00 - Architectural Wood Casework 06 83 16 - Fiberglass Reinforced Paneling **DIVISION 07 -- THERMAL AND MOISTURE PROTECTION** 07 11 13 - Bituminous Dampproofing 07 19 00 - Water Repellents 07 21 00 - Thermal Insulation 07 21 10 - Polyisocyanurate Continuous Wall Insulation 07 41 13 - Metal Roof Panels 07 42 13 - Metal Soffit Panels 07 42 13.23 - Metal Composite Material Wall Panels

- 07 62 00 Sheet Metal Flashing and Trim
- 07 72 52 Roof Snow Guards
- 07 92 00 Joint Sealants

#### **DIVISION 08 -- OPENINGS**

- 08 11 13 Hollow Metal Doors and Frames
- 08 14 16 Flush Wood Doors
- 08 31 00 Access Doors and Panels
- 08 33 13 Coiling Counter Doors
- 08 33 23 Overhead Coiling Doors
- 08 34 90 Tornado-Resistant Assemblies
- 08 42 29 Automatic Entrances
- 08 43 13 Aluminum-Framed Storefronts
- 08 44 13 Glazed Aluminum Curtain Walls
- 08 71 00 Door Hardware
- 08 80 00 Glazing

#### **DIVISION 09 -- FINISHES**

- 09 05 61 Common Work Results for Flooring Preparation
- 09 21 16 Gypsum Board Assemblies
- 09 30 00 Tiling
- 09 51 00 Acoustical Ceilings
- 09 54 26 Linear Wood Ceilings
- 09 66 23.16 Epoxy Terrazzo
- 09 67 00 Fluid-Applied Flooring
- 09 68 13 Tile Carpeting
- 09 90 00 Painting and Coating

#### **DIVISION 10 -- SPECIALTIES**

- 10 14 00 Signage
- 10 21 00 Phenolic Toilet Compartments
- 10 26 00 Wall and Door Protection
- 10 28 00 Toilet, Bath, and Laundry Accessories
- 10 43 00 Emergency Aid Specialties
- 10 44 00 Fire Protection Specialties
- 10 73 00 Aluminum Walkway Covers
- 10 73 16.13 Metal Canopies

#### **DIVISION 11 -- EQUIPMENT**

11 40 00 - Kitchen Equipment

Table of Contents

#### **DIVISION 12 -- FURNISHINGS**

12 25 13 - Roller Window Shades

12 36 00 - Countertops

12 50 00 - Furniture

#### **DIVISION 13 -- SPECIAL CONSTRUCTION**

13 34 16 - Metal Building Systems

#### **DIVISION 14 -- CONVEYING EQUIPMENT**

#### **DIVISION 21 -- FIRE SUPPRESSION**

21 05 00 - Common Work Results for Fire Suppression

- 21 05 23 General-Duty Valves for Water-Based Fire-Suppression Piping
- 21 05 48 Vibration and Seismic Controls for Fire Suppression Piping and Equipment
- 21 05 53 Identification for Fire Suppression Piping and Equipment
- 21 11 00 Facility Fire-Suppression Water-Service Piping
- 21 13 00 Fire-Suppression Sprinkler Systems

#### **DIVISION 22 -- PLUMBING**

- 22 00 00 Suplementary Plumbing General Conditions
- 22 05 17 Sleeves and Sleeve Seals for Plumbing Piping
- 22 05 48 Vibration and Seismic Controls for Plumbing Piping and Equipment
- 22 05 53 Identification for Plumbing Piping and Equipment
- 22 07 19 Plumbing Piping Insulation
- 22 10 05 Plumbing Piping
- 22 10 06 Plumbing Piping Specialties
- 22 30 00 Plumbing Equipment
- 22 40 00 Plumbing Fixtures

#### **DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)**

- 23 00 00 Supplementary Plumbing General Conditions
- 23 05 13 Common Motor Requirements for HVAC Equipment
- 23 05 17 Sleeves and Sleeve Seals for HVAC Piping
- 23 05 29 Hangers and Supports for HVAC Piping and Equipment
- 23 05 48 Vibration and Seismic Controls for HVAC
- 23 05 53 Identification for HVAC Piping and Equipment
- 23 05 93 Testing, Adjusting, and Balancing for HVAC
- 23 07 13 Duct Insulation
- 23 07 19 HVAC Piping Insulation
- 23 23 00 Refrigerant Piping
- 23 31 00 HVAC Ducts and Casings

- 23 33 00 Air Duct Accessories
- 23 34 23 HVAC Power Ventilators
- 23 37 00 Air Outlets and Inlets
- 23 38 13 Commercial-Kitchen Hoods
- 23 81 26.13 Small-Capacity Split-System Air Conditioners
- 23 82 00 Convection Heating and Cooling Units

#### **DIVISION 25 -- INTEGRATED AUTOMATION**

#### **DIVISION 26 -- ELECTRICAL**

- 26 00 00 Supplementary Electrical General Conditions
- 26 05 19 Low-Voltage Electrical Power Conductors and Cables
- 26 05 26 Grounding and Bonding for Electrical Systems
- 26 05 29 Hangers and Supports for Electrical Systems
- 26 05 33.13 Conduit for Electrical Systems
- 26 05 33.16 Boxes for Electrical Systems
- 26 05 48 Vibration and Seismic Controls for Electrical Systems
- 26 05 53 Identification for Electrical Systems
- 26 05 83 Wiring Connections
- 26 09 23 Lighting Control Devices
- 26 22 00 Low-Voltage Transformers
- 26 24 13 Switchboards
- 26 24 16 Panelboards
- 26 27 26 Wiring Devices
- 26 41 13 Lightning Protection for Structures
- 26 51 00 Interior Lighting
- 26 56 00 Exterior Lighting

#### **DIVISION 27 -- COMMUNICATIONS**

27 10 00 - Structured Cabling

#### **DIVISION 28 -- ELECTRONIC SAFETY AND SECURITY**

#### **DIVISION 31 -- EARTHWORK**

- 31 10 00 Site Clearing
- 31 20 00 Earth Moving
- 31 31 16 Termite Control
- 31 50 00 Excavation Support and Protection

#### **DIVISION 32 -- EXTERIOR IMPROVEMENTS**

- 32 12 16 Asphalt Paving
- 32 13 13 Concrete Paving

- 31 13 73 Concrete Paving Joint Sealant
- 32 31 19 Decorative Metal Fences and Gates
- 32 84 00 Planting Irrigation
- 32 92 00 Turf and Grasses

#### **DIVISION 33 -- UTILITIES**

- 33 05 00 Common Work Results for Utilities
- 33 14 15 Site Water Distribution Piping
- 33 42 00 Stormwater Conveyance

#### **END OF SECTION**

#### SECTION 00 41 00 BID FORM

#### THE PROJECT AND THE PARTIES

#### 1.01 TO:

 A. Jonesboro Municipal Airport Commission (Owner) 3901 Lindbergh Drive, Bldg. #1 Jonesboro, Arkansas72401

#### 1.02 FOR:

- A. Project: 2226 Jonesboro Municipal Airport Terminal
  - 1. Architect's Project Number: 2226
  - City Contract Number: To be determined 3901 Lindbergh Drive, Bldg. #1 Jonesboro, Arkansas72401

#### 1.03 DATE: \_\_\_\_\_ (BIDDER TO ENTER DATE)

#### 1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

- A. Bidder's Full Name \_\_\_\_\_
  - 1. Address \_\_\_\_
  - 2. City, State, Zip
  - 3. Contractor's Liscense Number:

#### 1.05 OFFER

- A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by Cooper Mixon Architects PLLC for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
- Β.
- \_\_\_\_\_ dollars (\$\_\_\_\_\_), in lawful money of the United States of America.
- C. We have included the required security Bid Bond as required by the Instruction to Bidders.
- D. We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.
- E. We have included the required Maintenance Bond required following the Supplementary Conditions.
- F. All applicable federal taxes are included and State of Arkansas taxes are included in the Bid Sum.
- G. All Cash and Contingency Allowances described in Section 01 21 00 Allowances are included in the Bid Sum.
- H. The total value of all Deductive Alternatives is included in the Bid Sum.

#### 1.06 ACCEPTANCE

- A. This offer shall be open to acceptance and is irrevocable for thirty days from the bid closing date.
- B. If this bid is accepted by Owner within the time period stated above, we will:

#### JONESBORO ARKANSAS MUNICIPAL AIRPORT TERMINAL BUILDING

- 1. Furnish the required bonds within ten days of receipt of Notice of Award.
- 2. Commence work within ten days after written Notice to Proceed of this bid.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.
- E. Liquidated damages have no value when determining the lowest responsive and responsible Bidder.

#### 1.07 CONTRACT TIME

- A. If this Bid is accepted, we will:
  - 1. Complete the Work in \_\_\_\_\_ calendar days from Notice to Proceed.

#### 1.08 LIQUIDATED DAMAGES

A. The amount of Liquidated Damages per Day to be assessed shall be in accordance with the schedule that follows:

1.	Amount of Contract	Liquidated Damages Per Day
2.	Less than \$25,000.00	\$100.00
3.	Not less than \$25,000.00 but less than \$50,0	00.00 \$150.00
4.	Not less than \$50,000.00 but less than \$100,	000.00 \$200.00
5.	Not less than \$100,000.00 but less than \$500	),000.00 \$250.00
6.	Not less than \$500,000.00 but less than \$1,0	00,000.00 \$350.00
7.	Over \$1,000,000.00	\$500.00

#### 1.09 UNIT PRICES

- A. The following are Unit Prices for specific portions of the Work as listed. The Undersigned agrees that the following UNIT PRICES shall govern changes in the Work, whether they be ADDITIONS or DEDUCTIONS to the Contract Sum required during he course of the Work. Unit Prices shall be the same for Additions or Deductions. All Unit Prices shall be total installed costs including over head, profit, geotechnical engineering and all other necessary costs. Proposing separated add and deduct unit prices shall subject this Bid Proposal to be rejected as "non-responsive." The following is the list of Unit Prices:
  - 1. Unit Price for Alternate Flooring Adhesive in the event such remediation is required. Refer to Section 09 05 61 Common Work Results for Flooring Preparation:
    - a. Alternate flooring adhesive per square foot \$\_\_\_\_\_
  - 2. Unit Price for Remedial Floor Coating in the event such remediation is required. Refer to Section 09 05 61 Common Work Results for Flooring Preparation:
    - a. Remedial Coating per square foot \$\_\_\_\_\_
  - Moisture Mitigation: Two-component, high solids, moisture tolerant, high density, low odor, epoxy-based product produced by epoxy terrazzo resin manufacturer specifically recommended to reduce alkalinity levels and moisture emission to acceptable levels.
     a. Moisture mitigation per square foot \$
  - 4. Crack Suppression/Isolation Membrane: As recommended, produced and supplied by approved terrazzo resin formulator, having minimum 120 percent elongation potential per

#### ASTM D 412.

- a. Crack suppression/isolation membrane per linear foot \$
- Unit Price for Undercutting in the event such remediation is required. 5.
  - a. Undercutting per cubic yard \$

#### 1.10 ALLOWANCES INCLUDED IN THE BASE PROPOSAL

- Special Inspections Allowance: Include the stipulated sum listed below for engaging the Α. independent special inspection agency and the required special inspections and testing as directed by the Architect.
  - \$15,000.00 1.
- Furniture Allowance: Include the stipulated sum listed below for purchase, delivery, and B. installation of Furniture.
  - 1 \$90.000.00
- C. Undercutting Allowance: The contractor shall include in the base bid contract amount an allowance for undercutting of existing unsuitable material and replacement with suitable fill material at the above contract unit price for following:
  - 1200 CY at the unit price indicated in the paragraph above. 1.
    - a. CY x \$
- D. Moisture Mitigation Allowance: The contractor shall include in the base bid contract amount an allowance for two-component, high solids, moisture tolerant, high density, low odor, epoxybased product produced by epoxy terrazzo resin manufacturer specifically recommended to reduce alkalinity levels and moisture emission to acceptable levels at the above contract unit price for the following:
  - 7,785 SF at the unit price indicated in the paragraph above. 1
    - a. SF x Unit Price = \$

#### 1.11 ADDENDA

- The following Addenda have been received. The modifications to the Bid Documents noted A. below have been considered and all costs are included in the Bid Sum.
  - 1. Addendum # \_\_\_\_\_ Dated \_\_\_\_\_.
  - 2. Addendum # Dated .

#### **1.12 DEDUCTIVE ALTERNATES**

- A. Deductive Alternate Number 1 Kitchen Equipment Supply. Deduct \$ 1
- Deductive Alternate Number 2 Kitchen Equipment Installation. B. 1. Deduct \$

#### 1.13 BID FORM SUPPLEMENTS

- The following information is included with Bid submission: Α.
  - Subcontractors: Mechanical Work HVAC (indicative of heating, air conditioning, and 1. ventilating), Electrical Work (indicative of wiring and illuminating fixtures), and any other associated subcontractors working on the project.
  - 2 I submit the names of the following subcontractors we propose to use, and their State contractor License Numbers. (Indicate "none" if subcontractor is not required for this project. Include Prime Bidder's name and license number if Prime Bidder is doing this work itself and the Prime Bidder's contractor license is gualified for this specialty.)
    - a. MECHANICAL WORK HVAC

Bid Form

#### JONESBORO ARKANSAS MUNICIPAL AIRPORT TERMINAL BUILDING

- 1) Name: \_\_\_\_\_
- 2) License #
- b. PLUMBING WORK
  - 1) Name: \_\_\_\_
  - 2) License # \_\_\_\_
- c. ELECTRICAL WORK
  - 1) Name: \_\_\_\_
  - License # \_
- d. ROOFING AND SHEET METAL WORK
  - Name: \_\_\_\_\_\_
     License #
- B. The following Supplements are to be attached by the Bidder to this Bid Form and are considered an integral part of this Bid Form:
  - 1. The Anti-Collusion Certification (following 00 41 00 BID FORM) must be executed and submitted with the bids at the time proposals are submitted.
  - 2. Suspension and Debarment Certification (following 00 41 00 BID FORM) must be executed and submitted with the bids at the time proposals are submitted.
  - 3. STATEMENT OF BIDDER'S QUALIFICATIONS: Each Bidder shall submit on the form furnished for that purpose (following 00 41 00 BID FORM), a statement of the Bidder's qualifications, his experience record in construction of work similar to that which here is involved, and his organization and equipment available for the work contemplated; and when specifically requested by the Owner, the Bidder shall provide a detailed financial statement. The Owner shall have the right to take such steps as it deems necessary to determine the ability of the Bidder to perform his obligations under the Contract, and the Bidder shall furnish the Owner all such information and data for this purpose as it may request. The right is reserved to reject any bid where an investigation of the available evidence or information does not satisfy the Owner that the Bidder is qualified to carry out properly the terms of the Contract.

#### 1.14 FURTHER CONDITIONS

- A. The undersigned, by submitting this Bid, further agrees:
  - 1. To accept the provisions of the "INSTRUCTIONS TO BIDDERS."
  - 2. That Bidder understands that the Work must comply with accessibility laws and will ensure that the Work is built in strict accordance with the Contract Documents (Drawings, Plans, and Specifications), of which this Proposal is made a part.
  - 3. To accomplish the Work, including products, equipment, and systems; complete and functional; ready for operation.
  - 4. To allow any Federal, State or Local inspector, acting in their official capacity, access to the project site.
  - 5. That Bidder or subcontractor will not employ or contract with any illegal immigrants.
  - 6. That it is understood that the Owner may reject any or all bids and waive any informalities or irregularities.

#### 1.15 ATTACHMENTS

- A. [] Bid Security.
- B. [ ] Power of Attorney for Bid Bond for the Bid Security.

#### 1.16 BID FORM SIGNATURE(S)

The Corporate Seal of

#### JONESBORO ARKANSAS MUNICIPAL AIRPORT TERMINAL BUILDING

(Bidder - print the full name of your firm) was hereunto affixed in the presence of:

(Authorized signing officer, Title) (Seal)

(Authorized signing officer, Title)

1.17 IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.

**END OF SECTION** 

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#### SECTION 26 51 00 INTERIOR LIGHTING

#### PART 1 - GENERAL

#### **1.01 SECTION INCLUDES**

- A. Interior luminaires.
- B. Emergency lighting units.
- C. Exit signs.
- D. Drivers.
- E. Lamps.
- F. Accessories.

#### 1.02 RELATED REQUIREMENTS

- A. Section 26 05 29 Hangers and Supports for Electrical Systems.
- B. Section 26 05 33.16 Boxes for Electrical Systems.
- C. Section 26 09 23 Lighting Control Devices.
  - 1. Includes automatic controls for lighting including occupancy sensors, outdoor motion sensors, time switches, outdoor photo controls, and daylighting controls.
  - 2. Includes lighting contactors.
- D. Section 26 27 26 Wiring Devices: Manual wall switches and wall dimmers.
- E. Section 26 56 00 Exterior Lighting.

#### 1.03 REFERENCE STANDARDS

- A. IEC 60529 Degrees of Protection Provided by Enclosures (IP Code); 2013 (Corrigendum 2019).
- B. IES LM-80 Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays, and Modules; 2015, with Errata (2017).
- C. NECA 1 Standard for Good Workmanship in Electrical Construction; 2015.
- D. NECA/IESNA 500 Standard for Installing Indoor Lighting Systems; 2006.
- E. NECA/IESNA 502 Standard for Installing Industrial Lighting Systems; 2006.
- F. NEMA LE 4 Recessed Luminaires, Ceiling Compatibility; 2012.
- G. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- H. NFPA 101 Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- I. UL 844 Luminaires for Use in Hazardous (Classified) Locations; Current Edition, Including All Revisions.
- J. UL 924 Emergency Lighting and Power Equipment; Current Edition, Including All Revisions.
- K. UL 1598 Luminaires; Current Edition, Including All Revisions.
- L. UL 1598C Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits; Current Edition, Including All Revisions.

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Interior Lighting
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M. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products; Current Edition, Including All Revisions.

#### 1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
  - 1. Coordinate the installation of luminaires with mounting surfaces installed under other sections or by others. Coordinate the work with placement of supports, anchors, etc. required for mounting. Coordinate compatibility of luminaires and associated trims with mounting surfaces at installed locations.
  - 2. Coordinate the placement of luminaires with structural members, ductwork, piping, equipment, diffusers, fire suppression system components, and other potential conflicts installed under other sections or by others.
  - 3. Coordinate the placement of exit signs with furniture, equipment, signage or other potential obstructions to visibility installed under other sections or by others.
  - 4. Notify Architect of any conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

#### 1.05 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Shop Drawings:
  - 1. Indicate dimensions and components for each luminaire that is not a standard product of the manufacturer.
  - 2. Provide photometric calculations where luminaires are proposed for substitution upon request.
- C. Product Data: Provide manufacturer's standard catalog pages and data sheets including detailed information on luminaire construction, dimensions, ratings, finishes, mounting requirements, listings, service conditions, photometric performance, installed accessories, and ceiling compatibility; include model number nomenclature clearly marked with all proposed features.
  - 1. LED Luminaires:
    - a. Include estimated useful life, calculated based on IES LM-80 test data.
  - 2. Lamps: Include rated life, color temperature, color rendering index (CRI), and initial and mean lumen output.
- D. Project Record Documents: Record actual connections and locations of luminaires and any associated remote components.

#### 1.06 QUALITY ASSURANCE

- A. Comply with requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

#### 1.07 DELIVERY, STORAGE, AND PROTECTION

- A. Receive, handle, and store products according to NECA/IESNA 500 (commercial lighting), NECA/IESNA 502 (industrial lighting), and manufacturer's written instructions.
- B. Keep products in original manufacturer's packaging and protect from damage until ready for installation.

#### 1.08 FIELD CONDITIONS

Interior Lighting

A. Maintain field conditions within manufacturer's required service conditions during and after installation.

#### 1.09 WARRANTY

- A. See Section 01 78 00 Closeout Submittals, for additional warranty requirements.
- B. Provide three year manufacturer warranty for LED luminaires, including drivers.
- C. Provide five year pro-rata warranty for batteries for emergency lighting units.
- D. Provide ten year pro-rata warranty for batteries for self-powered exit signs.

#### PART 2 - PRODUCTS

#### 2.01 LUMINAIRE TYPES

A. Furnish products as indicated in luminaire schedule included on the drawings.

#### 2.02 LUMINAIRES

- A. Manufacturers:
  - 1. Acuity Brands, Inc: www.acuitybrands.com/#sle.
  - 2. Hubbell Lighting, Inc: www.hubbelllighting.com/#sle.
  - 3. Philips Lighting North America Corporation; \_\_\_\_\_; www.lightingproducts.philips.com/#sle.
- B. Provide products that comply with requirements of NFPA 70.
- C. Provide products that are listed and labeled as complying with UL 1598, where applicable.
- D. Provide products listed, classified, and labeled as suitable for the purpose intended.
- E. Unless otherwise indicated, provide complete luminaires including lamp(s) and all sockets, drivers, reflectors, lenses, housings and other components required to position, energize and protect the lamp and distribute the light.
- F. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, hardware, supports, trims, accessories, etc. as necessary for a complete operating system.
- G. Provide products suitable to withstand normal handling, installation, and service without any damage, distortion, corrosion, fading, discoloring, etc.
- H. Recessed Luminaires:
  - 1. Ceiling Compatibility: Comply with NEMA LE 4.
  - 2. Luminaires Recessed in Insulated Ceilings: Listed and labeled as IC-rated, suitable for direct contact with insulation and combustible materials.
  - 3. Luminaires Recessed in Sloped Ceilings: Provide suitable sloped ceiling adapters.
- I. Hazardous (Classified) Location Luminaires: Listed and labeled as complying with UL 844 for the classification of the installed location.
- J. LED Tape Lighting Systems: Provide all power supplies, drivers, cables, connectors, channels, covers, mounting accessories, and interfaces as necessary to complete installation.
  - 1. LED Tape General Requirements:
    - a. Listed.
      - b. Designed for field cutting in accordance with listing.
      - c. Wet Location Applications: IEC 60529, IP 68 (waterproof) rated.

K. Luminaires Mounted in Continuous Rows: Provide quantity of units required for length indicated, with all accessories required for joining and aligning.

#### 2.03 EMERGENCY LIGHTING UNITS

- A. Manufacturers:
  - 1. Acuity Brands, Inc; \_\_\_\_\_: www.acuitybrands.com/#sle.
  - 2. Hubbell Lighting, Inc; \_\_\_\_\_: www.hubbelllighting.com/#sle.
  - Philips Lighting North America Corporation; [ ]; www.lightingproducts.philips.com/#sle. 3.
- B. Description: Emergency lighting units complying with NFPA 101 and all applicable state and local codes, and listed and labeled as complying with UL 924.
- C. Operation: Upon interruption of normal power source or brownout condition exceeding 20 percent voltage drop from nominal, solid-state control automatically switches connected lamps to integral battery power for minimum of 90 minutes of rated emergency illumination, and automatically recharges battery upon restoration of normal power source.
- D. Battery:
  - 1. Sealed maintenance-free lead calcium unless otherwise indicated.
  - 2 Size battery to supply all connected lamps, including emergency remote heads where indicated.
- E. Diagnostics: Provide power status indicator light and accessible integral test switch to manually activate emergency operation.
- F. Provide low-voltage disconnect to prevent battery damage from deep discharge.
- G. Self-Diagnostics: Provide units that self-monitor functionality and automatically perform testing required by NFPA 101 where indicated; provide indicator light(s) to report test and diagnostic status.
- H. Accessories:
  - Provide compatible accessory mounting brackets where indicated or required to complete 1. installation.

#### 2.04 EXIT SIGNS

- Description: Exit signs complying with NFPA 101 and applicable state and local codes, and A. listed and labeled as complying with UL 924.
  - 1. Number of Faces: Single- or double-face as indicated or as required for installed location.
  - Directional Arrows: As indicated or as required for installed location. 2.
- B. Powered Exit Signs: Internally illuminated with LEDs unless otherwise indicated.
  - 1. Manufacturers:

    - a. Acuity Brands, Inc; \_\_\_\_\_: www.acuitybrands.com/#sle.b. Hubbell Lighting, Inc; \_\_\_\_\_: www.hubbelllighting.com/#sle.
    - c. Philips Lighting North America Corporation; ; www.lightingproducts.philips.com/#sle.

#### 2.05 DRIVERS

- A. Drivers General Requirements:
  - Provide ballasts containing no polychlorinated biphenyls (PCBs). 1.
  - Minimum Efficiency/Efficacy: Provide ballasts complying with all current applicable federal 2. and state ballast efficiency/efficacy standards.
- B. Dimmable LED Drivers:

- 1. Dimming Range: Continuous dimming from 100 percent to five percent relative light output unless dimming capability to lower level is indicated, without flicker.
- Control Compatibility: Fully compatible with the dimming controls to be installed.
   a. Wall Dimmers: See Section 26 27 26.

#### 2.06 LAMPS

- A. Lamps General Requirements:
  - 1. Unless explicitly excluded, provide new, compatible, operable lamps in each luminaire.
  - 2. Verify compatibility of specified lamps with luminaires to be installed. Where lamps are not specified, provide lamps per luminaire manufacturer's recommendations.
  - 3. Minimum Efficiency: Provide lamps complying with all current applicable federal and state lamp efficiency standards.
  - 4. Color Temperature Consistency: Unless otherwise indicated, for each type of lamp furnish products which are consistent in perceived color temperature. Replace lamps that are determined by the Architect to be inconsistent in perceived color temperature.
  - 5. Unless otherwise noted, color temperature shall be 3500k for indoor fixtures and 4000k for exterior fixtures.

#### **PART 3 - EXECUTION**

#### 3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate conductors in accordance with NFPA 70.
- C. Verify that suitable support frames are installed where required.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to luminaires.
- E. Verify that conditions are satisfactory for installation prior to starting work.

#### 3.02 PREPARATION

- A. Provide extension rings to bring outlet boxes flush with finished surface.
- B. Clean dirt, debris, plaster, and other foreign materials from outlet boxes.

#### 3.03 INSTALLATION

- A. Coordinate locations of outlet boxes provided under Section 26 05 33.16 as required for installation of luminaires provided under this section.
- B. Perform work in accordance with NECA 1 (general workmanship).
- C. Install products in accordance with manufacturer's instructions.
- D. Install luminaires securely, in a neat and workmanlike manner, as specified in NECA 500 (commercial lighting) and NECA 502 (industrial lighting).
- E. Provide required support and attachment in accordance with Section 26 05 29.
- F. Install luminaires plumb and square and aligned with building lines and with adjacent luminaires.
- G. Suspended Ceiling Mounted Luminaires:
  - 1. Do not use ceiling tiles to bear weight of luminaires.
  - 2. Do not use ceiling support system to bear weight of luminaires unless ceiling support system is certified as suitable to do so.

- 3. Secure lay-in luminaires to ceiling support channels using listed safety clips at four corners.
- In addition to ceiling support wires, provide two galvanized steel safety wire(s), minimum 12 gauge, connected from opposing corners of each recessed luminaire to building structure.
- 5. See appropriate Division 9 section where suspended grid ceiling is specified for additional requirements.
- H. Recessed Luminaires:
  - 1. Install trims tight to mounting surface with no visible light leakage.
  - 2. Non-IC Rated Luminaires: Maintain required separation from insulation and combustible materials according to listing.
  - 3. Luminaires Recessed in Fire-Rated Ceilings: Install using accessories and firestopping materials to meet regulatory requirements for fire rating.
- I. Suspended Luminaires:
  - 1. Install using the suspension method indicated, with support lengths and accessories as required for specified mounting height.
  - 2. Install canopies tight to mounting surface.
- J. Install accessories furnished with each luminaire.
- K. Bond products and metal accessories to branch circuit equipment grounding conductor.
- L. Emergency Lighting Units:
  - 1. Unless otherwise indicated, connect unit to unswitched power from same circuit feeding normal lighting in same room or area. Bypass local switches, contactors, or other lighting controls.
- M. Exit Signs:
  - 1. Unless otherwise indicated, connect unit to unswitched power from same circuit feeding normal lighting in same room or area. Bypass local switches, contactors, or other lighting controls.
- N. Install lamps in each luminaire.
- O. Lamp Burn-In: Operate lamps at full output for prescribed period per manufacturer's recommendations prior to use with any dimming controls. Replace lamps that fail prematurely due to improper lamp burn-in.

#### 3.04 FIELD QUALITY CONTROL

- A. See Section 01 40 00 Quality Requirements, for additional requirements.
- B. Inspect each product for damage and defects.
- C. Operate each luminaire after installation and connection to verify proper operation.
- D. Test self-powered exit signs and emergency lighting units to verify proper operation upon loss of normal power supply.
- E. Correct wiring deficiencies and repair or replace damaged or defective products. Repair or replace excessively noisy ballasts as determined by Architect.

#### 3.05 ADJUSTING

A. Aim and position adjustable luminaires to achieve desired illumination as indicated or as directed by Architect. Secure locking fittings in place.

- B. Aim and position adjustable emergency lighting unit lamps to achieve optimum illumination of egress path as required or as directed by Architect or authority having jurisdiction.
- C. Exit Signs with Field-Selectable Directional Arrows: Set as indicated or as required to properly designate egress path as directed by Architect or authority having jurisdiction.

#### 3.06 CLEANING

A. Clean surfaces according to NECA 500 (commercial lighting), NECA 502 (industrial lighting), and manufacturer's instructions to remove dirt, fingerprints, paint, or other foreign material and restore finishes to match original factory finish.

#### 3.07 CLOSEOUT ACTIVITIES

#### 3.08 PROTECTION

A. Protect installed luminaires from subsequent construction operations.

#### END OF SECTION

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#### SECTION 26 56 00 EXTERIOR LIGHTING

#### PART 1 - GENERAL

#### **1.01 SECTION INCLUDES**

- A. Exterior luminaires.
- B. Ballasts.
- C. Poles and accessories.
- D. Luminaire accessories.

#### **1.02 RELATED REQUIREMENTS**

- A. Section 03 30 00 Cast-in-Place Concrete: Materials and installation requirements for concrete bases for poles.
- B. Section 26 05 26 Grounding and Bonding for Electrical Systems.
- C. Section 26 05 29 Hangers and Supports for Electrical Systems.
- D. Section 26 05 33.16 Boxes for Electrical Systems.

#### 1.03 REFERENCE STANDARDS

- A. IEEE C2 National Electrical Safety Code; 2017.
- B. IES LM-79 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products; 2008.
- C. IES LM-80 Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays, and Modules; 2015, with Errata (2017).
- D. IES RP-8 Recommended Practice for Design and Maintenance of Roadway and Parking Facility Lighting; 2018.
- E. NECA 1 Standard for Good Workmanship in Electrical Construction; 2015.
- F. NECA/IESNA 501 Standard for Installing Exterior Lighting Systems; 2006.
- G. NEMA LE 4 Recessed Luminaires, Ceiling Compatibility; 2012.
- H. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- I. UL 844 Luminaires for Use in Hazardous (Classified) Locations; Current Edition, Including All Revisions.
- J. UL 1598 Luminaires; Current Edition, Including All Revisions.
- K. UL 8750 Light Emitting Diode (LED) Equipment for Use in Lighting Products; Current Edition, Including All Revisions.

#### 1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
  - 1. Coordinate placement of poles and associated foundations with utilities, curbs, sidewalks, trees, walls, fences, striping, etc. installed under other sections or by others. Coordinate elevation to obtain specified foundation height.
  - 2. Notify Architect of any conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

#### 1.05 SUBMITTALS

Exterior Lighting

- See Section 01 30 00 Administrative Requirements, for submittal procedures. Α.
- Β. Shop Drawings:
  - Indicate dimensions and components for each luminaire that is not a standard product of 1. the manufacturer.
  - Provide photometric calculations where luminaires are proposed for substitution upon 2. request.
  - 3. Provide structural calculations for each pole proposed for substitution.
- C. Product Data: Provide manufacturer's standard catalog pages and data sheets including detailed information on luminaire construction, dimensions, ratings, finishes, mounting requirements, listings, service conditions, photometric performance, weight, effective projected area (EPA), and installed accessories; include model number nomenclature clearly marked with all proposed features.
  - 1 LED Luminaires:
    - a. Include estimated useful life, calculated based on IES LM-80 test data.
  - Poles: Include information on maximum supported effective projected area (EPA) and 2. weight for the design wind speed.
- D. Operation and Maintenance Data: Instructions for each product including information on replacement parts.
- E. Project Record Documents: Record actual connections and locations of pole foundations, luminaires, and any pull or junction boxes.

#### **1.06 QUALITY ASSURANCE**

- A. Comply with requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

#### 1.07 DELIVERY, STORAGE, AND HANDLING

- Receive, handle, and store products according to NECA/IESNA 501 and manufacturer's written A. instructions.
- Keep products in original manufacturer's packaging and protect from damage until ready for B. installation.

#### 1.08 WARRANTY

- A. See Section 01 78 00 Closeout Submittals, for additional warranty requirements.
- B. Provide three year manufacturer warranty for all LED luminaires, including drivers.

#### **PART 2 - PRODUCTS**

#### 2.01 LUMINAIRE TYPES

A. Furnish products as indicated in luminaire schedule included on the drawings.

#### 2.02 LUMINAIRES

- A. Manufacturers:
  - Acuity Brands, Inc; \_\_\_\_\_: www.acuitybrands.com/#sle.
     Hubbell Lighting, Inc; \_\_\_\_\_: www.hubbelllighting.com/#sle.

  - 3. Philips Lighting North America Corporation; ; www.lightingproducts.philips.com/#sle.
- B. Provide products that comply with requirements of NFPA 70.

Exterior Lighting

26 56 00 - 2

- C. Provide products that are listed and labeled as complying with UL 1598, where applicable.
- D. Provide products listed, classified, and labeled as suitable for the purpose intended.
- E. Unless otherwise indicated, provide complete luminaires including lamp(s) and all sockets, ballasts, reflectors, lenses, housings and other components required to position, energize and protect the lamp and distribute the light.
- F. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, hardware, poles, foundations, supports, trims, accessories, etc. as necessary for a complete operating system.
- G. Provide products suitable to withstand normal handling, installation, and service without any damage, distortion, corrosion, fading, discoloring, etc.
- H. Provide luminaires listed and labeled as suitable for wet locations unless otherwise indicated.
- **Recessed Luminaires:** Ι.
  - 1. Ceiling Compatibility: Comply with NEMA LE 4.
  - Luminaires Recessed in Insulated Ceilings: Listed and labeled as IC-rated, suitable for 2. direct contact with insulation and combustible materials.
  - Luminaires Recessed in Sloped Ceilings: Provide suitable sloped ceiling adapters. 3.
- J. Hazardous (Classified) Location Luminaires: Listed and labeled as complying with UL 844 for the classification of the installed location.
- K. Luminaires Mounted in Continuous Rows: Provide quantity of units required for length indicated, with all accessories required for joining and aligning.
- L. LED Luminaires:
  - 1. Components: UL 8750 recognized or listed as applicable.
  - Tested in accordance with IES LM-79 and IES LM-80. 2.
  - 3. LED Estimated Useful Life: Minimum of 50,000 hours at 70 percent lumen maintenance, calculated based on IES LM-80 test data.

#### 2.03 BALLASTS AND DRIVERS

- Drivers General Requirements: A.
  - Provide drivers containing no polychlorinated biphenyls (PCBs). 1.
  - 2. Minimum Efficiency/Efficacy: Providedrivers complying with all current applicable federal and state driver efficiency/efficacy standards.

#### 2.04 POLES

- Manufacturers: A.
  - 1.
  - Acuity Brands, Inc; \_\_\_\_\_: www.acuitybrands.com/#sle. Hubbell Lighting, Inc; \_\_\_\_\_: www.hubbelllighting.com/#sle. 2.
  - Philips Lighting North America Corporation; \_\_\_\_\_; 3. www.lightingproducts.philips.com/#sle.
- B. All Poles:
  - 1. Provide poles and associated support components suitable for the luminaire(s) and associated supports and accessories to be installed.
  - 2. Structural Design Criteria:
    - a. Wind Load: Include effective projected area (EPA) of luminaire(s) and associated supports and accessories to be installed.

- 3. Material: Steel, unless otherwise indicated. Fiberglass and Resin poles will not be accepted.
- 4. Shape: Square straight, unless otherwise indicated.
- 5. Finish: Match luminaire finish, unless otherwise indicated.
- 6. Mounting: Install on concrete foundation, height as indicated on the drawings, unless otherwise indicated.
- 7. Unless otherwise indicated, provide with the following features/accessories:
  - а. Тор сар.
  - b. Anchor bolts with leveling nuts or leveling shims.
  - c. Anchor base cover.
  - d. Provision for pole-mounted weatherproof GFI receptacle where indicated.

#### 2.05 ACCESSORIES

- A. Stems for Suspended Luminaires: Steel tubing, minimum 1/2" size, factory finished to match luminaire or field-painted as directed.
- B. Threaded Rods for Suspended Luminaires: Zinc-plated steel, minimum 1/4" size, field-painted as directed.

#### **PART 3 - EXECUTION**

#### 3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate conductors in accordance with NFPA 70.
- C. Verify that suitable support frames are installed where required.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to luminaires.
- E. Verify that conditions are satisfactory for installation prior to starting work.

#### 3.02 PREPARATION

- A. Provide extension rings to bring outlet boxes flush with finished surface.
- B. Clean dirt, debris, plaster, and other foreign materials from outlet boxes.

#### 3.03 INSTALLATION

- A. Coordinate locations of outlet boxes provided under Section 26 05 33.16 as required for installation of luminaires provided under this section.
- B. Perform work in accordance with NECA 1 (general workmanship).
- C. Install products in accordance with manufacturer's instructions.
- D. Install luminaires in accordance with NECA/IESNA 501.
- E. Provide required support and attachment in accordance with Section 26 05 29.
- F. Install luminaires plumb and square and aligned with building lines and with adjacent luminaires.
- G. Recessed Luminaires:
  - 1. Install trims tight to mounting surface with no visible light leakage.
  - 2. Non-IC Rated Luminaires: Maintain required separation from insulation and combustible materials according to listing.

- 3. Luminaires Recessed in Fire-Rated Ceilings: Install using accessories and firestopping materials to meet regulatory requirements for fire rating.
- H. Pole-Mounted Luminaires:

1

- Maintain the following minimum clearances:
  - a. Comply with IEEE C2.
  - b. Comply with utility company requirements.
- 2. Foundation-Mounted Poles:
  - a. Install foundations plumb.
  - b. Install poles plumb, using leveling nuts or shims as required to adjust to plumb.
  - c. Tighten anchor bolt nuts to manufacturer's recommended torque.
- 3. Grounding:
  - a. Bond luminaires, metal accessories, metal poles, and foundation reinforcement to branch circuit equipment grounding conductor.
- 4. Install separate service conductors, 12 AWG copper, from each luminaire down to handhole for connection to branch circuit conductors.
- I. Install accessories furnished with each luminaire.
- J. Bond products and metal accessories to branch circuit equipment grounding conductor.
- K. Install lamps in each luminaire.

#### 3.04 FIELD QUALITY CONTROL

- A. See Section 01 40 00 Quality Requirements, for additional requirements.
- B. Inspect each product for damage and defects.
- C. Operate each luminaire after installation and connection to verify proper operation.
- D. Correct wiring deficiencies and repair or replace damaged or defective products. Repair or replace excessively noisy ballasts as determined by Architect.

#### 3.05 ADJUSTING

A. Aim and position adjustable luminaires to achieve desired illumination as indicated or as directed by Architect. Secure locking fittings in place.

#### 3.06 CLEANING

A. Clean surfaces according to NECA/IESNA 501 and manufacturer's instructions to remove dirt, fingerprints, paint, or other foreign material and restore finishes to match original factory finish.

#### 3.07 CLOSEOUT ACTIVITIES

A. Just prior to Substantial Completion, replace all lamps that have failed.

#### 3.08 PROTECTION

A. Protect installed luminaires from subsequent construction operations.

#### END OF SECTION

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#### SECTION 28 46 00 FIRE DETECTION AND ALARM

#### PART 1 GENERAL

#### **1.01 SECTION INCLUDES**

- A. Fire alarm system design and installation, including all components, wiring, and conduit.
- B. Transmitters for communication with supervising station.
- C. Maintenance of fire alarm system under contract for specified warranty period.

#### 1.02 RELATED REQUIREMENTS

- A. Section 08 71 00 Door Hardware: Electrically operated locks and door holder devices to be monitored and released by fire alarm system.
- B. Section 21 13 00 Fire-Suppression Sprinkler Systems: Supervisory, alarm, and actuating devices installed in sprinkler system.
- C. Section 23 33 00 Air Duct Accessories: Smoke dampers monitored and controlled by fire alarm system.
- D. Section 26 05 48 Vibration and Seismic Controls for Electrical Systems: Requirements for the seismic qualification of equipment specified in this section.

#### 1.03 REFERENCE STANDARDS

- A. 36 CFR 1191 Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. ADA Standards Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- C. IEEE C62.41.2 IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits; 2002 (Corrigendum 2012).
- D. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. NFPA 72 National Fire Alarm and Signaling Code; Most Recent Edition Cited by Referring Code or Reference Standard.
- F. NFPA 101 Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

#### 1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Proposal Documents: Submit the following with cost/time proposal:
  - 1. NFPA 72 "Record of Completion", filled out to the extent known at the time.
  - 2. Manufacturer's detailed data sheet for each control unit, initiating device, and notification appliance.
  - 3. Certification by Contractor that the system design will comply with Contract Documents.
  - 4. Proposed maintenance contract.
- C. Drawings must be prepared using Autocad or Revit..
- D. Evidence of designer qualifications.
- E. Design Documents: Submit all information required for plan review and permitting by authorities having jurisdiction, including but not limited to floor plans, riser diagrams, and description of operation:

#### OCT 2024 CONSTRUCTION DOCUMENTS

- 1. Copy (if any) of list of data required by authority having jurisdiction.
- 2. NFPA 72 "Record of Completion", filled out to the extent known at the time.
- 3. Clear and concise description of operation, with input/output matrix similar to that shown in NFPA 72 Appendix A-7-5-2.2(9), and complete listing of software required.
- 4. System zone boundaries and interfaces to fire safety systems.
- 5. Location of all components, circuits, and raceways; mark components with identifiers used in control unit programming.
- 6. Circuit layouts; number, size, and type of raceways and conductors; conduit fill calculations; spare capacity calculations; notification appliance circuit voltage drop calculations.
- 7. List of all devices on each signaling line circuit, with spare capacity indicated.
- 8. Manufacturer's detailed data sheet for each component, including wiring diagrams, installation instructions, and circuit length limitations.
- 9. Description of power supplies; if secondary power is by battery include calculations demonstrating adequate battery power.
- 10. Certification by either the manufacturer of the control unit or by the manufacturer of each other component that the components are compatible with the control unit.
- 11. Certification by the manufacturer of the control unit that the system design complies with Contract Documents.
- 12. Certification by Contractor that the system design complies with Contract Documents.
- F. Evidence of installer qualifications.
- G. Evidence of instructor qualifications; training lesson plan outline.
- H. Evidence of maintenance contractor qualifications, if different from installer.
- I. Inspection and Test Reports:
  - 1. Submit inspection and test plan prior to closeout demonstration.
  - 2. Submit documentation of satisfactory inspections and tests.
  - 3. Submit NFPA 72 "Inspection and Test Form," filled out.
- J. Operating and Maintenance Data: See Section 01 78 00 for additional requirements; revise and resubmit until acceptable; have one set available during closeout demonstration:
  - 1. Complete set of specified design documents, as approved by authority having jurisdiction.
  - 2. Additional printed set of project record documents and closeout documents, bound or filed in same manuals.
  - 3. Contact information for firm that will be providing contract maintenance and trouble callback service.
  - 4. List of recommended spare parts, tools, and instruments for testing.
  - 5. Replacement parts list with current prices, and source of supply.
  - 6. Detailed troubleshooting guide and large scale input/output matrix.
  - 7. Preventive maintenance, inspection, and testing schedule complying with NFPA 72; provide printed copy and computer format acceptable to Owner.
  - 8. Detailed but easy to read explanation of procedures to be taken by non-technical administrative personnel in the event of system trouble, when routine testing is being conducted, for fire drills, and when entering into contracts for remodeling.
- K. Project Record Documents: See Section 01 78 00 for additional requirements; have one set available during closeout demonstration:
  - 1. Complete set of floor plans showing actual installed locations of components, conduit, and zones.

- 2. "As installed" wiring and schematic diagrams, with final terminal identifications.
- 3. "As programmed" operating sequences, including control events by device, updated input/output chart, and voice messages by event.
- L. Closeout Documents:
  - 1. Certification by manufacturer that the system has been installed in compliance with manufacturer's installation requirements, is complete, and is in satisfactory operating condition.
  - 2. NFPA 72 "Record of Completion", filled out completely and signed by installer and authorized representative of authority having jurisdiction.
  - 3. Certificate of Occupancy.
  - 4. Maintenance contract.
- M. Maintenance Materials, Tools, and Software: Furnish the following for Owner's use in maintenance of project.
  - 1. Furnish spare parts of same manufacturer and model as those installed; deliver in original packaging, labeled in same manner as in operating and maintenance data and place in spare parts cabinet.
  - 2. In addition to the items in quantities indicated in PART 2, furnish the following:
    - a. All tools, software, and documentation necessary to modify the fire alarm system using Owner's personnel; minimum modification capability to include addition and deletion of devices, circuits, and zones, and changes to system description, operation, and evacuation and instructional messages.
    - b. One copy, on CD-ROM, of all software not resident in read-only-memory.
    - c. Extra Fuses: Two for each installed fuse; store inside applicable control cabinet.

#### 1.05 QUALITY ASSURANCE

- A. Designer Qualifications: NICET Level III or IV (3 or 4) certified fire alarm technician or registered fire protection engineer, employed by fire alarm control panel manufacturer, Contractor, or installer, with experience designing fire alarm systems in the jurisdictional area of the authorities having jurisdiction.
- B. Installer Qualifications: Firm with minimum 3 years documented experience installing fire alarm systems of the specified type and providing contract maintenance service as a regular part of their business.
  - 1. Authorized representative of control unit manufacturer; submit manufacturer's certification that installer is authorized; include name and title of manufacturer's representative making certification.
  - 2. Installer Personnel: At least 2 years of experience installing fire alarm systems.
  - 3. Supervisor: NICET level III or IV (3 or 4) certified fire alarm technician; furnish name and address.
  - 4. Contract maintenance office located within 50 miles of project site.
  - 5. Certified in the State in which the Project is located as fire alarm installer.
- C. Maintenance Contractor Qualifications: Same entity as installer or different entity with specified qualifications.
- D. Instructor Qualifications: Experienced in technical instruction, understanding fire alarm theory, and able to provide the required training; trained by fire alarm control unit manufacturer.

#### 1.06 WARRANTY

Fire Detection and Alarm

- A. Provide control panel manufacturer's warranty that system components other than wire and conduit are free from defects and will remain so for 1 year after date of Substantial Completion.
- B. Provide installer's warranty that the installation is free from defects and will remain so for 1 year after date of Substantial Completion.

#### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Fire Alarm Control Units and Accessories:
  - 1. Honeywell Security & Fire Solutions/Notifier
  - 2. Siemens Building Technologies, Inc
  - 3. Simplex, a brand of Johnson Controls
  - 4. Provide control units made by the same manufacturer.
  - 5. Manufacturers owned by one of the companies listed above, but not directly listed will not be accepted.
- B. Initiating Devices and Notification Appliances:
  - 1. Same manufacturer as control units.
  - 2. Provide initiating devices and notification appliances made by the same manufacturer, where possible.

#### 2.02 FIRE ALARM SYSTEM

- A. Fire Alarm System: Provide a new automatic fire detection and alarm system:
  - 1. Provide all components necessary, regardless of whether shown in Contract Documents or not.
  - 2. Protected Premises: Entire building shown on drawings.
  - 3. Comply with the following; where requirements conflict, order of precedence of requirements is as listed:
    - a. ADA Standards.
    - b. The requirements of the State Fire Marshal.
    - c. The requirements of the local authority having jurisdiction.
    - d. Applicable local codes.
    - e. Contract Documents (drawings and specifications).
    - f. NFPA 101.
    - g. NFPA 72; where the word "should" is used consider that provision mandatory; where conflicts between requirements require deviation from NFPA 72, identify deviations clearly on design documents.
  - 4. Evacuation Alarm: Multiple smoke zones; allow for evacuation notification of any individual zone or combination of zones, in addition to general evacuation of entire premises.
  - 5. Voice Notification: Provide emergency voice/alarm communications with multichannel capability; digital.
  - 6. General Evacuation Zones: Each smoke zone is considered a general evacuation zone unless otherwise indicated, with alarm notification in all zones on the same floor, on the floor above, and the floor below.
  - 7. Fire Command Center: Location indicated on drawings.
  - 8. Fire Alarm Control Unit: New, located at supervising station.
- B. Supervising Stations and Fire Department Connections:
  - 1. Public Fire Department Notification: By on-premises supervising station.

- 2. On-Premises Supervising Station: Existing proprietary station operated by Owner, located at \_\_\_\_\_.
- 3. Means of Transmission to On-Premises Supervising Station: Directly connected noncoded system.
- 4. Means of Transmission to Remote Supervising Station: Digital alarm communicator transmitter (DACT), 2 telephone lines.
- C. Circuits:
  - 1. Initiating Device Circuits (IDC): Class B, Style A.
  - 2. Signaling Line Circuits (SLC) Within Single Building: Class B, Style 0.5.
  - 3. Notification Appliance Circuits (NAC): Class B, Style W.
- D. Spare Capacity:
  - 1. Initiating Device Circuits: Minimum 25 percent spare capacity.
  - 2. Notification Appliance Circuits: Minimum 25 percent spare capacity.
  - 3. Fire Alarm Control Units: Capable of handling all circuits utilized to capacity without requiring additional components other than plug-in control modules.
- E. Power Sources:
  - 1. Primary: Dedicated branch circuits of the facility power distribution system.
  - 2. Secondary: Storage batteries.
  - 3. Capacity: Sufficient to operate entire system for period specified by NFPA 72.
  - 4. Each Computer System: Provide uninterruptible power supply (UPS).

#### 2.03 FIRE SAFETY SYSTEMS INTERFACES

- A. Supervision: Provide supervisory signals in accordance with NFPA 72 for the following:
  - 1. Sprinkler water control valves.
  - 2. Dry-pipe sprinkler system pressure.
  - 3. Dry-pipe sprinkler valve room low temperature.
- B. Alarm: Provide alarm initiation in accordance with NFPA 72 for the following:
  1. Sprinkler water flow.
- C. HVAC:
  - 1. Duct Smoke Detectors: Close dampers indicated; shut down air handlers indicated.

#### 2.04 COMPONENTS

- A. General:
  - 1. Provide flush mounted units where installed in finish areas; in unfinished areas, surface mounted unit are acceptable.
  - 2. Provide legible, permanent labels for each control device, using identification used in operation and maintenance data.
- B. Fire Alarm Control Units: Analog, addressable type; listed, classified, and labeled as suitable for the purpose intended.
- C. Master Control Unit: As specified for Basis of Design above, or equivalent.
- D. Remote Annunciators
- E. Initiating Devices:
  - 1. Addressable Systems:
    - a. Addressable Devices: Individually identifiable by addressable fire alarm control unit.

#### OCT 2024 CONSTRUCTION DOCUMENTS

- b. Provide suitable addressable interface modules as indicated or as required for connection to conventional (non-addressable) devices and other components that provide a dry closure output.
- 2. Manual Pull Stations: .
  - a. Provide 1 extra.
- 3. Smoke Detectors: .
  - a. Provide 1 extra.
- 4. Heat Detectors: .
  - a. Provide 1 extra.
- F. Notification Appliances:
  - 1. Horns..
    - a. Provide 1 extra.
  - 2. Speakers: \_\_\_\_\_
  - 3. Strobes:
    - a. Provide 1 extra.
- G. Circuit Conductors: Copper or optical fiber; provide 200 feet extra; color code and label.
- H. Surge Protection: In accordance with IEEE C62.41.2 category B combination waveform and NFPA 70; except for optical fiber conductors.
- I. Locks and Keys: Deliver keys to Owner.
- J. Instruction Charts: Printed instruction chart for operators, showing steps to be taken when a signal is received (normal, alarm, supervisory, and trouble); easily readable from normal operator's station.
  - 1. Frame: Stainless steel or aluminum with polycarbonate or glass cover.
  - 2. Provide one for each control unit where operations are to be performed.
  - 3. Obtain approval of Owner prior to mounting; mount in location acceptable to Owner.
  - 4. Provide extra copy with operation and maintenance data submittal.

#### PART 3 EXECUTION

#### 3.01 INSTALLATION

- A. Install in accordance with applicable codes, NFPA 72, NFPA 70, and Contract Documents.
- B. Conceal all wiring, conduit, boxes, and supports where installed in finished areas.
- C. Obtain Owner's approval of locations of devices, before installation.
- D. Install instruction cards and labels.

#### 3.02 INSPECTION AND TESTING FOR COMPLETION

- A. Notify Owner 7 days prior to beginning completion inspections and tests.
- B. Notify authorities having jurisdiction and comply with their requirements for scheduling inspections and tests and for observation by their personnel.
- C. Provide the services of the installer's supervisor or person with equivalent qualifications to supervise inspection and testing, correction, and adjustments.
- D. Prepare for testing by ensuring that all work is complete and correct; perform preliminary tests as required.
- E. Provide all tools, software, and supplies required to accomplish inspection and testing.

- F. Perform inspection and testing in accordance with NFPA 72 and requirements of local authorities; document each inspection and test.
- G. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.
- H. Diagnostic Period: After successful completion of inspections and tests, Operate system in normal mode for at least 14 days without any system or equipment malfunctions.
  - 1. Record all system operations and malfunctions.
  - 2. If a malfunction occurs, start diagnostic period over after correction of malfunction.
  - 3. Owner will provide attendant operator personnel during diagnostic period; schedule training to allow Owner personnel to perform normal duties.
  - 4. At end of successful diagnostic period, fill out and submit NFPA 72 "Inspection and Testing Form."

#### 3.03 OWNER PERSONNEL INSTRUCTION

- A. Provide the following instruction to designated Owner personnel:
  - 1. Hands-On Instruction: On-site, using operational system.
- B. Administrative: One-hour session(s) covering issues necessary for non-technical administrative staff; classroom:
  - 1. Initial Training: 1 session pre-closeout.
- C. Basic Operation: One-hour sessions for attendant personnel, security officers, and engineering staff; combination of classroom and hands-on:
  - 1. Initial Training: 1 session pre-closeout.
- D. Furnish the services of instructors and teaching aids; have copies of operation and maintenance data available during instruction.

#### 3.04 CLOSEOUT

- A. Closeout Demonstration: Demonstrate proper operation of all functions to Owner.
  - 1. Be prepared to conduct any of the required tests.
  - 2. Have at least one copy of operation and maintenance data, preliminary copy of project record drawings, input/output matrix, and operator instruction chart(s) available during demonstration.
  - 3. Have authorized technical representative of control unit manufacturer present during demonstration.
  - 4. Demonstration may be combined with inspection and testing required by authority having jurisdiction; notify authority having jurisdiction in time to schedule demonstration.
  - 5. Repeat demonstration until successful.
- B. Occupancy of the project will not occur prior to Substantial Completion.
- C. Substantial Completion of the project cannot be achieved until inspection and testing is successful and:
  - 1. Specified diagnostic period without malfunction has been completed.
  - 2. Approved operating and maintenance data has been delivered.
  - 3. Spare parts, extra materials, and tools have been delivered.
  - 4. All aspects of operation have been demonstrated to Owner.
  - 5. Final acceptance of the fire alarm system has been given by authorities having jurisdiction.
  - 6. Occupancy permit has been granted.

7. Specified pre-closeout instruction is complete.

#### 3.05 MAINTENANCE

- A. See Section 01 70 00 Execution and Closeout Requirements, for additional requirements relating to maintenance service.
- B. Provide to Owner, at no extra cost, a written maintenance contract for entire manufacturer's warranty period, to include the work described below.
- C. Perform routine inspection, testing, and preventive maintenance required by NFPA 72, including:
  - 1. Maintenance of fire safety interface and supervisory devices connected to fire alarm system.
  - 2. Repairs required, unless due to improper use, accidents, or negligence beyond the control of the maintenance contractor.
  - 3. Record keeping required by NFPA 72 and authorities having jurisdiction.
- D. Provide trouble call-back service upon notification by Owner:
  - 1. Provide on-site response within 2 hours of notification.
  - 2. Include allowance for call-back service during normal working hours at no extra cost to Owner.
  - 3. Owner will pay for call-back service outside of normal working hours on an hourly basis, based on actual time spent at site and not including travel time; include hourly rate and definition of normal working hours in maintenance contract.
- E. Provide a complete description of preventive maintenance, systematic examination, adjustment, cleaning, inspection, and testing, with a detailed schedule.
- F. Maintain a log at each fire alarm control unit, listing the date and time of each inspection and call-back visit, the condition of the system, nature of the trouble, correction performed, and parts replaced. Submit duplicate of each log entry to Owner's representative upon completion of site visit.
- G. Comply with Owner's requirements for access to facility and security.

#### END OF SECTION



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K	DATE 10/14/2024 CONTENTS FLOOR PLAN SHEET NUMBER A-111

















9 BUILDING SECTION 9 3/16" = 1'-0"

# 7 BUILDING SECTION 7 3/16" = 1'-0"

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	ROJECT NAME TERMINAL REPLACEMENT DATE 10/14/2024 CONTENTS BUILDING SECTIONS
	sheet number A-302

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2226 PROJEC TERMINAL REPLACEN DATE 10/14/2024 CONTEN ALUMINUM CURTAIN V ELEVATION	AT NAME MENT NTS I FRAME & VALL NS
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		KEYED NOTES
	(1)	PROVIDE AND INSTALL #10 CONDUCTORS WITH #10G, IF CIRCUIT THROUGH RELAY LOCATED IN "LCP" LIGHTING PHOTOCELL ON, TIME CLOCK OFF (VERIFY TIME WITH O ON (VERIFY TIME WITH OWNER). PHOTOCELL OFF.
	Ð	VERIFY EXACT LOCATION OF AIRCRAFT APU WITH OWN PROVIDE AND INSTALL (4)#3 CONDUCTORS WITH (1) #24
	3	VERIFY EXACT LOCATION OF TARMAC APRON LIGHT FIX PRIOR TO INSTALL.
	4	PROVIDE AND INSTALL (3) 2" PVC SCHEDULE 80 CONDU EXISTING UTILITY JUNCTION BOX. COORDINATE CONNE CONDUIT MUST BE LONG SWEEP (36") 90 DEGREE ANG
ر	<b>(5)</b>	PROVIDE AND INSTALL NEW JUNCTION BOX. COORDINA WITH UTILITY.









# CONSTRUCTION DOCUMENTS

PROJECT NO.

2226

PROJECT NAME

TERMINAL REPLACEMENT

DATE 

10/18/2024

CONTENTS

SITE PLAN -ELECTRICAL

INSIGHT ENGINEERING, PLLC No. 3523

SHEET NUMBER

E002



ITEM NUMBER DESCRIP REFRIGE FREEZEF 2 ICE MAK 7 UNDERC 8 KEG COO 9 POINT ( 11 MICROV 12 UNDERC 13 ELECTRI 16 PANINI S 17 REFRIGE 18 HOOD 22 23 FIRE CO 24 25 36 12" FRYE 24" GRIL 36" REFF

KITCHEN EQUIPMENT SCHEDULE
PTION
ERATOR
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KER
COUNTER BEVERAGE REFRIGERATOR
OLER W/ TAP
OF SALE
WAVE OVEN
COUNTER FREEZER
IC PIZZA OVEN
SANDWICH UNIT
ERATED SANDWICH UNIT
(VERIFY LOCATION). ELECTRICAL CONTRACTOR TO CONNECT ALL LIGHTS AND FANS INTERNAL TO HOOD.
ONTROL SYSTEM (VERIFY LOCATION)
/ER, ELECTRIC
ILL, ELECTRIC
RIGERATED STAND

## **KEYED NOTES**

- (1) PROVIDE AND INSTALL (2) 2" CONDUITS BELOW GRADE TO FLUSH MOUNTED J-BOX FOR FUTURE CONDUCTORS.
- **2** PROVIDE AND INSTALL #8 CONDUCTORS, WITH #10G, IN 1" CONDUIT. PROVIDE AND INSTALL (2) 2" CONDUITS IN WALL TO ABOVE ACCESSIBLE CEILING FOR FIBER INSTALLATION. FIBER TO BE ROUTED TO MECHANICAL 1 #108 VIA J-HOOKS ABOVE ACCESSIBLE CEILING TO TERMINATE IN MECHANICAL ROOM 1 #108.
- CONDUIT SHALL EXTEND 5' OUTSIDE OF THE BUILDING BELOW GRADE AS REQUIRED BY FIBER UTILITY COMPANY. CONTRACTOR TO COORDINATE CONNECTION TO FIBER UTILITY WITH OWNER'S REPRESENATIVE.





## CONSTRUCTION DOCUMENTS

PROJECT NO.

PROJECT NAME

2226

TERMINAL

REPLACEMENT

SHEET NUMBER

E102

DATE

10/18/2024

CONTENTS

FLOOR PLAN - POWER AND SYSTEMS

INSIGHT ENGINEERING, PLLC No. 3523

Panel Location: MECH. 1 108 Supply From: Mounting: SURFACE Enclosure: NEMA 1					Volts: Phases: Wires:	120/208 3 4	Wye				<b>A.I.C. Rating:</b> 42,000 <b>Bus Rating:</b> 800 A <b>MCB Rating:</b> 800 A	
Notes:												
CK T Circuit Description	Trip (A)	Pol es	<b>"/</b> 22601	<b>\"</b> 23167		B"	"(	C''	Pol es	Trip (A)	Circuit Description	
3			22001	20107	23695	20203	23555	20103				
7 P3	125	3	10474	6926	10014	6026	23333	20133	3	125		
3 11 12 AIDODAET ADU			4200	4200	10014	0920	4090	6926				
13 AIRCRAFT APU 15			4299	4299	4299	4299	4000	4000				
17 19 KMAU-1 ELEC HEAT	60	2	4701	4982			4299	4299	2	 60	 KMAU-1	
21 23					4701	4982						
25 27							-					
29 31												
33 35												
37 39												
41	Total L	_oad:	8144	8 VA	7911	18 VA	6336	51 VA				
т	otal A	mps:	699	9 A	68	0 A	52	8 A	_			
Load Classification	Со	nnec	ted Load	De	emand Fa	ictor	Estimate	ed Dema	nd		Panel Totals	
Lighting Other		262	4 VA 9 VA		100.00%	6 6	262	24 VA 99 VA			Total Conn. Load: 223927 VA Total Est. Demand: 204198 VA	
Power Recentacle		1622	04 VA		100.00%	6	162	204 VA		То	Total Conn. Current: 635 A	
					00.1170	,	201	25 VA				
Mounting: SURFACE Enclosure: NEMA 1 Notes:												
Mounting: SURFACE Enclosure: NEMA 1 Notes:	Trip	Pol							Pol	Trip	Circuit Description	
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Mounting: SURFACE         Enclosure: NEMA 1         Notes:         Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle CONFERENCE 115         7       Receptacle         9       Receptacle Room 111, 112, 113         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         23       Lighting - SITE         23       Lighting         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Lighting         29       Lighting         21       Lighting CORRIDOR 103         23       Lighting         23       Lighting         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Light	Trip (A)           20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 180 720 380 380 1764 635 635	A 360 180 180 180 180 447 2000	720 900 180 380 1175 437	B 1080 540 900 720 720 585 585 343	900 900 900 180 180 180 342 342 1175	2 900 180 180 180 1000 1000 2000	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 	
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Mounting: SURFACE Enclosure: NEMA 1         Notes:         Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle CONFERENCE 115         7       Receptacle         9       Receptacle         11       Receptacle         9       Receptacle         9       Receptacle         11       Receptacle         12       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         23       Lighting - SITE         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Lighting         29       Lighting         21       Lighting CONFERENCE 109         33       Lighting         39       Lighting         39       Lighting         30 <td>Trip (A)           20</td> <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>180 180 180 720 380 380 1764 635 635 2039 2039</td> <td>A 360 180 180 180 180 447 2000 3333</td> <td>720 900 180 380 11175 437 437 1997 1997</td> <td>B 1080 540 900 900 720 720 585 343 343 3333 1248</td> <td>900 900 900 180 180 190 342 342 1175 2500</td> <td>2 900 180 180 180 1000 1000 2000 33333</td> <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>Circuit Description Receptacle Receptacle Room 117 Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6  AHU-7  </td> <td></td>	Trip (A)           20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 180 720 380 380 1764 635 635 2039 2039	A 360 180 180 180 180 447 2000 3333	720 900 180 380 11175 437 437 1997 1997	B 1080 540 900 900 720 720 585 343 343 3333 1248	900 900 900 180 180 190 342 342 1175 2500	2 900 180 180 180 1000 1000 2000 33333	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description Receptacle Receptacle Room 117 Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6  AHU-7  	
Mounting: SURFACE Enclosure: NEMA 1         Notes:         Creation         1       Receptacle         3       Receptacle         5       Receptacle CONFERENCE 115         7       Receptacle         9       Receptacle         11       Receptacle CONFERENCE 115         7       Receptacle         9       Receptacle         11       Receptacle         12       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         23       Lighting - SITE         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Lighting         29       Lighting         31       Lighting         32       Lighting         33       Lighting         34          35       Lig	Trip (A)           20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 180 720 380 380 1764 635 635 2039 2039 22500	<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>3333</li> <li>3467</li> </ul>	720 900 180 380 1175 437 437 1997 2500	B 1080 540 900 900 720 343 343 343 343 1248 1248	900 900 900 180 180 190 190 110 190 110 190 2500	2 900 180 180 180 1000 2000 3333 3333	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description Receptacle Receptacle Receptacle Room 117 Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-7	
Mounting: SURFACE         Enclosure: NEMA 1         Notes:         CK       Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle CONFERENCE 115         7       Receptacle         9       Receptacle         11       Receptacle         9       Receptacle         9       Receptacle         11       Receptacle         12       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         19       Lighting - SITE         21       Lighting - SITE         22       Lighting         23       Lighting         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Lighting         29       Lighting         31       Lighting         32       Lighting         33       Lighting         34	Trip         (A)         20 </td <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>180 180 180 720 380 380 1764 635 2039 2039 2500 1560</td> <td>360 180 180 180 180 180 447 2000 3333 3467</td> <td>720 900 180 380 11175 380 11175 437 1997 1997 2500 1560</td> <td>B 1080 540 900 720 720 585 343 3333 1248 33467</td> <td>900 900 900 180 180 180 190 12500 2500 2500</td> <td>2 900 180 180 180 1000 1000 2000 33333 3333</td> <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>Circuit Description Receptacle Receptacle Receptacle Room 117 Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 HP-6 HP-6 HP-7 KEE 1</td> <td></td>	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 180 720 380 380 1764 635 2039 2039 2500 1560	360 180 180 180 180 180 447 2000 3333 3467	720 900 180 380 11175 380 11175 437 1997 1997 2500 1560	B 1080 540 900 720 720 585 343 3333 1248 33467	900 900 900 180 180 180 190 12500 2500 2500	2 900 180 180 180 1000 1000 2000 33333 3333	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description Receptacle Receptacle Receptacle Room 117 Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 HP-6 HP-6 HP-7 KEE 1	
Mounting: SURFACE         Enclosure: NEMA 1         Notes:         CK       Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle         6       Receptacle         7       Receptacle         9       Receptacle         9       Receptacle         11       Receptacle         12       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         23       Lighting         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Lighting         29       Lighting         31       Lighting         32       Lighting         33       Lighting         34	Trip         (A)         20         21         225         20         20         21         225         20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 180 720 380 380 1764 635 2039 2039 22500 1560 1560	<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>3333</li> <li>3467</li> <li>756</li> <li>756</li> </ul>	720 900 180 380 11175 380 1175 437 437 1997 2500 1560 1560	B 1080 540 900 720 720 343 343 3333 1248 33467 3467 190	900 900 900 10 180 180 180 190 190 190 190 10 1175 2500 2500 2500 1560	2 900 180 180 180 180 1000 2000 33333 1248 33467	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description Receptacle Receptacle Receptacle Room 117 Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-7 KEF-1 Lighting - SITE SPARE	
Mounting: SURFACE Enclosure: NEMA 1         Notes:         Creation         Receptacle	Trip         (A)         20         21         225         20         20         20         20         20         20         20         20         20         20         20         20         20         20     <	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 720 380 1764 635 2039 2039 2500 1560 1560	<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>3333</li> <li>3467</li> <li>756</li> <li>0</li> </ul>	720 900 180 380 1175 437 1997 2500 1560 1440	B 1080 540 900 720 720 585 343 343 343 1248 3333 1248 3467 190	900 900 180 180 180 190 1180 190 2500 2500 2500 11560 1560	2 900 180 180 180 1000 1000 2000 33333 1248 33467 3467	Poles         1         2            3            3            3            3            3            3            3            3            3            3            3            3         1         1         1          1          1 <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>Circuit Description Receptacle Receptacle Room 117 Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE</td> <td></td>	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description Receptacle Receptacle Room 117 Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE	
Mounting:       SURFACE         Enclosure:       NEMA 1         Notes:       Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle CONFERENCE 115         7       Receptacle         9       Receptacle         9       Receptacle         11       Receptacle         9       Receptacle         11       Receptacle         12       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         23       Lighting         21       Lighting CORRIDOR 103         23       Lighting         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Lighting         39       Lighting         31          32       Lighting	Trip         (A)         20 </td <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>180 180 180 720 380 1764 635 2039 2500 1560 1560</td> <td>360 180 180 180 180 180 447 2000 3333 3467 33467</td> <td>720 900 180 380 1175 437 437 1997 2500 1560 1560 1440 0</td> <td>B 1080 540 900 720 720 343 3333 343 3333 1248 3343 1248 3343 1248 3343 1248</td> <td>900 900 900 10 180 180 180 190 190 1175 2500 1175 2500 10 1175 10 10 10 10 10 10 10 10 10 10 10 10 10</td> <td>2 900 180 180 180 180 1000 1000 1000 33333 1248 3333 1248 33467 3467</td> <td>Poles         1         2            3            3            3            3            3            3            3            3            3            3            3            3            1         1         1         1      1</td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>Circuit Description  Receptacle  Receptacle Room 117  Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE SPARE SPARE</td> <td></td>	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 180 720 380 1764 635 2039 2500 1560 1560	360 180 180 180 180 180 447 2000 3333 3467 33467	720 900 180 380 1175 437 437 1997 2500 1560 1560 1440 0	B 1080 540 900 720 720 343 3333 343 3333 1248 3343 1248 3343 1248 3343 1248	900 900 900 10 180 180 180 190 190 1175 2500 1175 2500 10 1175 10 10 10 10 10 10 10 10 10 10 10 10 10	2 900 180 180 180 180 1000 1000 1000 33333 1248 3333 1248 33467 3467	Poles         1         2            3            3            3            3            3            3            3            3            3            3            3            3            1         1         1         1      1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description  Receptacle  Receptacle Room 117  Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE SPARE SPARE	
Mounting: SURFACE Enclosure: NEMA 1         Notes:         CK T       Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle         6       Receptacle         7       Receptacle         9       Receptacle         11       Receptacle         12       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         22       Lighting         23       Lighting         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Lighting         29       Lighting         31       Lighting         32       Lighting         33       Lighting         34       HU-9         35       Lighting         36       Lighting <td>Trip         (A)         20     <!--</td--><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>180 180 180 720 380 380 1764 635 2039 2500 1560 1560 1560</td><td><ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>3333</li> <li>3467</li> <li>756</li> <li>0</li> <li>0</li> <li>0</li> </ul></td><td>720 900 180 380 1175 437 1997 437 1997 2500 1560 1560 1440 0</td><td>B 1080 540 900 900 720 900 343 343 343 343 1248 343 1248 343 1248 343 1248 1248 1248</td><td>900 900 900 10 180 180 180 190 1180 190 10 10 10 10 10 10 10 10 10 10 10 10 10</td><td>2 900 180 180 180 1000 1000 2000 2000 33333 1248 33467 3467 0 0</td><td>Poles         1          1          1</td><td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>Circuit Description Receptacle Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td><td></td></td>	Trip         (A)         20 </td <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>180 180 180 720 380 380 1764 635 2039 2500 1560 1560 1560</td> <td><ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>3333</li> <li>3467</li> <li>756</li> <li>0</li> <li>0</li> <li>0</li> </ul></td> <td>720 900 180 380 1175 437 1997 437 1997 2500 1560 1560 1440 0</td> <td>B 1080 540 900 900 720 900 343 343 343 343 1248 343 1248 343 1248 343 1248 1248 1248</td> <td>900 900 900 10 180 180 180 190 1180 190 10 10 10 10 10 10 10 10 10 10 10 10 10</td> <td>2 900 180 180 180 1000 1000 2000 2000 33333 1248 33467 3467 0 0</td> <td>Poles         1          1          1</td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>Circuit Description Receptacle Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td> <td></td>	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 180 720 380 380 1764 635 2039 2500 1560 1560 1560	<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>3333</li> <li>3467</li> <li>756</li> <li>0</li> <li>0</li> <li>0</li> </ul>	720 900 180 380 1175 437 1997 437 1997 2500 1560 1560 1440 0	B 1080 540 900 900 720 900 343 343 343 343 1248 343 1248 343 1248 343 1248 1248 1248	900 900 900 10 180 180 180 190 1180 190 10 10 10 10 10 10 10 10 10 10 10 10 10	2 900 180 180 180 1000 1000 2000 2000 33333 1248 33467 3467 0 0	Poles         1          1          1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description Receptacle Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	
Mounting: SURFACE Enclosure: NEMA 1         Notes:         CK       Circuit Description         1       Receptacle         3       Receptacle CONFERENCE 115         7       Receptacle CONFERENCE 115         7       Receptacle CONFERENCE 115         7       Receptacle CONFERENCE 115         7       Receptacle         11       Receptacle         12       Receptacle Room 111, 112, 113         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         23       Lighting - SITE         24       Lighting CORRIDOR 103         33       Lighting         34       Lighting         35       Lighting         36       Lighting         37       Lighting         38       Lighting         39       Lighting         31       Lighting         32       Lighting         33       Lighting	Trip         (A)         20 </td <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>180 180 180 720 380 380 1764 635 2039 22500 22500 1560 1560 1560</td> <td><ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>33333</li> <li>3467</li> <li>756</li> <li>0</li> </ul></td> <td>720 900 180 380 1175 437 437 1997 437 1997 2500 1560 1560 1560</td> <td>B 1080 540 900 720 900 3343 343 3333 1248 3343 3333 1248 3343 0 1248 0 1248 0 1248 0 1248 0 1248 0 1248 0 1248 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>900 900 900 10 180 180 180 190 190 10 1175 2500 1175 2500 1175 10 1175 10 10 10 10 10 10 10 10 10 10 10 10 10</td> <td>2 900 180 180 180 180 1000 2000 33333 1000 33333 1248 3467 3467 3467 0 0</td> <td>Poles         1          1          1</td> <td>Trip         20     <td>Circuit Description Receptacle CONFERENCE 115 Receptacle Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td><td></td></td>	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 180 720 380 380 1764 635 2039 22500 22500 1560 1560 1560	<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>33333</li> <li>3467</li> <li>756</li> <li>0</li> </ul>	720 900 180 380 1175 437 437 1997 437 1997 2500 1560 1560 1560	B 1080 540 900 720 900 3343 343 3333 1248 3343 3333 1248 3343 0 1248 0 1248 0 1248 0 1248 0 1248 0 1248 0 1248 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0	900 900 900 10 180 180 180 190 190 10 1175 2500 1175 2500 1175 10 1175 10 10 10 10 10 10 10 10 10 10 10 10 10	2 900 180 180 180 180 1000 2000 33333 1000 33333 1248 3467 3467 3467 0 0	Poles         1          1          1	Trip         20 <td>Circuit Description Receptacle CONFERENCE 115 Receptacle Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td> <td></td>	Circuit Description Receptacle CONFERENCE 115 Receptacle Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	
Mounting: SURFACE Enclosure: NEMA 1         Notes:         Cfr       Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle CONFERENCE 115         7       Receptacle CONFERENCE 115         7       Receptacle         9       Receptacle         11       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         23       Lighting         24       Lighting         27       Lighting CORRIDOR 103         33       Lighting         34       Lighting         35       Lighting         36       Lighting         37       Lighting         38       Lighting         39       Lighting         31       Lighting         32       Lighting         33       Lighting         34       -	Trip         (A)         20 </td <td>Poles         1      <tr tr=""></tr></td> <td>180 180 720 380 380 1764 635 2039 2039 2500 1560 1560 1560 0 1560</td> <td><ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>3333</li> <li>3467</li> <li>7566</li> <li>0</li> <li></li></ul></td> <td>720 900 180 380 1175 437 437 1997 2500 1560 1560 1560 1440 0 1560</td> <td>B 1080 540 900 900 720 343 343 343 343 343 343 1248 3333 1248 343 1248 3467 1248 3467 0 190 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td><ul> <li>900</li> <li>900</li> <li>900</li> <li>900</li> <li>900</li> <li>1100</li> <li>1180</li> <li>1180</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>1175</li> <li>2500</li> <li>342</li> <li>1175</li> <li>1175</li> <li>342</li> <li>1175</li> <li>1175&lt;</li></ul></td> <td>2 900 180 180 180 1000 2000 33333 1248 3333 3333 1248 3333 1248 3367 3 0 0 33333</td> <td>Poles         1      <tr tr=""></tr></td> <td>Trip         20     <td>Circuit Description Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE</td><td></td></td>	Poles         1 <tr tr=""></tr>	180 180 720 380 380 1764 635 2039 2039 2500 1560 1560 1560 0 1560	<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>3333</li> <li>3467</li> <li>7566</li> <li>0</li> <li></li></ul>	720 900 180 380 1175 437 437 1997 2500 1560 1560 1560 1440 0 1560	B 1080 540 900 900 720 343 343 343 343 343 343 1248 3333 1248 343 1248 3467 1248 3467 0 190 0 0 0 0 0 0 0 0 0 0 0 0 0	<ul> <li>900</li> <li>900</li> <li>900</li> <li>900</li> <li>900</li> <li>1100</li> <li>1180</li> <li>1180</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>1175</li> <li>2500</li> <li>342</li> <li>1175</li> <li>1175</li> <li>342</li> <li>1175</li> <li>1175&lt;</li></ul>	2 900 180 180 180 1000 2000 33333 1248 3333 3333 1248 3333 1248 3367 3 0 0 33333	Poles         1 <tr tr=""></tr>	Trip         20 <td>Circuit Description Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE</td> <td></td>	Circuit Description Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE	
Mounting: SURFACE Enclosure: NEMA 1         Notes:         Cfr       Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle         6       Receptacle         7       Receptacle         8       Receptacle         9       Receptacle         11       Receptacle         12       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         22       Lighting         23       Lighting         24       Lighting         25       Lighting         26       Lighting         27       Lighting         28       Lighting         29       Lighting         21       Lighting         22       Lighting         33       Lighting         34       -         44       AHU-8	Trip         (A)         20 </td <td>Poles         1      <tr tr=""></tr></td> <td>180 180 180 720 380 1764 635 2039 22500 1560 1560 1560 1560 0 1560 0 1560 0 1560 10 10 10 10 10 10 10 10 10 1</td> <td><ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>33333</li> <li>3467</li> <li>756</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li></li> </ul></td> <td>720 900 180 380 1175 437 437 437 1997 437 1997 1997 1997 1997 100 1560 1560 1560 1560</td> <td>B 1080 540 900 720 900 3343 343 3333 3333 1248 3343 3333 1248 3467 3467 0 190 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td><ul> <li>900</li> <li>900</li> <li>900</li> <li>900</li> <li>180</li> <li>180</li> <li>180</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>1500</li> <li>2500</li> <li>1560</li> <li>0</li> <li></li></ul></td> <td>2 900 180 180 180 180 1000 1000 1000 1000</td> <td>Poles         1      <tr tr=""></tr></td> <td>Trip         20     <td>Circuit Description  Receptacle  Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE</td><td></td></td>	Poles         1 <tr tr=""></tr>	180 180 180 720 380 1764 635 2039 22500 1560 1560 1560 1560 0 1560 0 1560 0 1560 10 10 10 10 10 10 10 10 10 1	<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>447</li> <li>2000</li> <li>33333</li> <li>3467</li> <li>756</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li></li> </ul>	720 900 180 380 1175 437 437 437 1997 437 1997 1997 1997 1997 100 1560 1560 1560 1560	B 1080 540 900 720 900 3343 343 3333 3333 1248 3343 3333 1248 3467 3467 0 190 0 0 0 0 0 0 0 0 0 0 0 0 0	<ul> <li>900</li> <li>900</li> <li>900</li> <li>900</li> <li>180</li> <li>180</li> <li>180</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>342</li> <li>1500</li> <li>2500</li> <li>1560</li> <li>0</li> <li></li></ul>	2 900 180 180 180 180 1000 1000 1000 1000	Poles         1 <tr tr=""></tr>	Trip         20 <td>Circuit Description  Receptacle  Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPARE</td> <td></td>	Circuit Description  Receptacle  Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE	
Mounting: SURFACE Enclosure: NEMA 1         Notes:         Cf       Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle CONFERENCE 115         7       Receptacle         9       Receptacle         9       Receptacle         11       Receptacle         9       Receptacle         9       Receptacle         11       Receptacle         12       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         22       Lighting         23       Lighting CONFERENCE 109         33       Lighting         34       Lighting         35       Lighting         36       Lighting         37       Lighting         38       Lighting         39       Lighting         31       -	Trip         (A)         20 </td <td>Poles         1      <tr tr=""></tr></td> <td>180 180 720 380 380 1764 635 2039 22500 1560 1560 1560 1560 0 1560 0 1560 0 0 1560</td> <td><ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>3333</li> <li>3467</li> <li>33467</li> <li>7566</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>1</li> <li>1</li></ul></td> <td>720       900       180       180       180       180       1997       1175       437       1997       2500       1560       1560       0       0       0       0       0       0          2365</td> <td>B 1080 540 900 900 720 343 343 343 343 3333 1248 343 343 3467 3467 9 190 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>900 900 900 10 900 10 10 10 10 10 10 10 10 10 10 10 10 1</td> <td>2 900 180 180 180 1000 2000 33333 2000 33333 1248 3467 3467 3467 0 0 33333</td> <td>Poles         1      <tr tr=""></tr></td> <td>Trip         20     <td>Circuit DescriptionReceptaclePOWER DOORSCP-1 AND CP-2RCPAUH-6HP-7KEF-1Lighting - SITESPARE<!--</td--><td></td></td></td>	Poles         1 <tr tr=""></tr>	180 180 720 380 380 1764 635 2039 22500 1560 1560 1560 1560 0 1560 0 1560 0 0 1560	<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>3333</li> <li>3467</li> <li>33467</li> <li>7566</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>1</li> <li>1</li></ul>	720       900       180       180       180       180       1997       1175       437       1997       2500       1560       1560       0       0       0       0       0       0          2365	B 1080 540 900 900 720 343 343 343 343 3333 1248 343 343 3467 3467 9 190 0 0 0 0 0 0 0 0 0 0 0 0 0	900 900 900 10 900 10 10 10 10 10 10 10 10 10 10 10 10 1	2 900 180 180 180 1000 2000 33333 2000 33333 1248 3467 3467 3467 0 0 33333	Poles         1 <tr tr=""></tr>	Trip         20 <td>Circuit DescriptionReceptaclePOWER DOORSCP-1 AND CP-2RCPAUH-6HP-7KEF-1Lighting - SITESPARE<!--</td--><td></td></td>	Circuit DescriptionReceptaclePOWER DOORSCP-1 AND CP-2RCPAUH-6HP-7KEF-1Lighting - SITESPARE </td <td></td>	
Mounting: SURFACE Enclosure: NEMA 1           Notes:           Creation           1           Receptacle           3           Receptacle           5           Receptacle           11           Receptacle           12           Receptacle           13           Receptacle           14           Receptacle           15           Receptacle           16           17           Receptacle           18           Receptacle           19           Lighting - SITE           21           Lighting - SITE           22           Lighting           23           Lighting           24           25           26           27           Lighting           33           Lighting           34           25           26           27           Lighting           38           Lighting           39           26	Trip         (A)         20 </td <td>Pol es 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td></td> <td><ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>3407</li> <li>3333</li> <li>3467</li> <li>33467</li> <li>3467</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>1</li> <li>VA</li> <li>3</li> <li>A</li> </ul></td> <td>720 900 180 380 180 380 1175 437 1997 437 1997 2500 1560 1560 1560 1440 0 1560 0 1560 0 1560 10 10 10 10 10 10 10 10 10 10 10 10 10</td> <td>B 1080 540 900 720 900 343 343 343 343 343 1248 343 343 9 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>900 900 900 180 900 180 180 190 190 180 190 190 190 190 190 190 190 190 190 19</td> <td>2 900 180 180 180 180 1000 2000 2000 3333 1248 3333 1248 33467 0 33467 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Poles         1      <tr tr=""></tr></td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>Circuit Description Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPACE SPACE SPACE SPACE SPACE SPACE</td> <td></td>	Pol es 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<ul> <li>360</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>180</li> <li>3407</li> <li>3333</li> <li>3467</li> <li>33467</li> <li>3467</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>0</li> <li>1</li> <li>VA</li> <li>3</li> <li>A</li> </ul>	720 900 180 380 180 380 1175 437 1997 437 1997 2500 1560 1560 1560 1440 0 1560 0 1560 0 1560 10 10 10 10 10 10 10 10 10 10 10 10 10	B 1080 540 900 720 900 343 343 343 343 343 1248 343 343 9 0 0 0 0 0 0 0 0 0 0 0 0 0	900 900 900 180 900 180 180 190 190 180 190 190 190 190 190 190 190 190 190 19	2 900 180 180 180 180 1000 2000 2000 3333 1248 3333 1248 33467 0 33467 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Poles         1 <tr tr=""></tr>	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Circuit Description Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 EF-1 POWER DOORS CP-1 AND CP-2 RCP AUH-6 AHU-7 HP-6 HP-6 HP-7 KEF-1 Lighting - SITE SPARE SPACE SPACE SPACE SPACE SPACE SPACE	
Mounting: SURFACE Enclosure: NEMA 1         Notes:         CK       Circuit Description         1       Receptacle         3       Receptacle         5       Receptacle CONFERENCE 115         7       Receptacle         11       Receptacle         12       Receptacle CONFERENCE 115         7       Receptacle         13       Receptacle         14       Receptacle         15       Receptacle         16       Receptacle         17       Receptacle         18       Receptacle         19       Lighting - SITE         21       Lighting - SITE         22       Lighting         23       Lighting         24       Lighting         25       Lighting         36       Lighting         37       Lighting         38       Lighting         39       Lighting         31       Lighting         32       Lighting         33       Lighting         34       AHU-9         43          44       AHU-9         43	Trip         (A)         20 </td <td>Pol         es         1</td> <td>180   180   180   180   720   380   720   380   1764   635   2039   2500   1560   1560   1560   1560   0   0   1560   1560   12500   12500   1560   12500   12500   12500   12500   12500   12500   12500   1360   1400   1560   1600   1600   1750   1800   1800   1800   1800   1800   1800   1800   1800</td> <td>360          360         180         180         180         180         3333         3467         3333         3467         0</td> <td>720 900 180 380 1175 437 437 1997 2500 1560 1560 1560 0 1560 0 0 0 0 0 0 0 0 0 0 0 0 1560 156</td> <td>B 1080 540 900 900 720 900 3343 343 343 343 343 343 90 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Description of the second sec</td> <td>2 900 180 180 180 1000 2000 3333 1248 3467 3467 33467 3467 0 0 3333 1248 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Poles         1      <tr tr=""></tr></td> <td>Trip         20     <td>Circuit Description Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle Rec</td><td></td></td>	Pol         es         1	180   180   180   180   720   380   720   380   1764   635   2039   2500   1560   1560   1560   1560   0   0   1560   1560   12500   12500   1560   12500   12500   12500   12500   12500   12500   12500   1360   1400   1560   1600   1600   1750   1800   1800   1800   1800   1800   1800   1800   1800	360          360         180         180         180         180         3333         3467         3333         3467         0	720 900 180 380 1175 437 437 1997 2500 1560 1560 1560 0 1560 0 0 0 0 0 0 0 0 0 0 0 0 1560 156	B 1080 540 900 900 720 900 3343 343 343 343 343 343 90 0 0 0 0 0 0 0 0 0 0 0 0 0	Description of the second sec	2 900 180 180 180 1000 2000 3333 1248 3467 3467 33467 3467 0 0 3333 1248 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Poles         1 <tr tr=""></tr>	Trip         20 <td>Circuit Description Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle Rec</td> <td></td>	Circuit Description Receptacle Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle Receptacle CONFERENCE 115 Receptacle Rec	

	Panel Location: Space 110L Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1					Volts: Phases: Wires:	: 120/208 : 3 : 4	Wye				A.I.C. Rating: 22,000 Bus Rating: 125 A MCB Rating: 125 A	
lotes:													
				1									
ск		Trip	Pol							Pol	Trip		
T 1 (11) P	Circuit Description	(A) 20	<b>es</b>	240	A 560		B			<b>es</b>	(A) 20	Circuit Description Receptacle	
3 (18) R	EFRIGERATED SANDWICH UNIT (SHUNT	20	1			480	650	480	650	1	20	Receptacle	
7 (1) RE	FRIGERATOR	20	1	720	1200			400	0.50	1	20	Receptacle FOOD PREP 113	
9 (7) ICE	E MAKER REFRIGERATED STAND (SHUNT TRIP)	20	1			1800	740	720	360	1	20	Receptacle (8) UNDERCOUNTER BEVERAGE REERIGERAT	OF
13 (25) G	GRILL (SHUNT TRIP)	40	2	3016	360					1	20	(13) FREEZER	
15 17 (22) H	IOOD LIGHTS AND FAN	20				3016	520	500	520	2	20	(24) FRYER (SHUNT TRIP)	
9 (17) P	ANINI PRESS	20	2	1040	1768	1040	1768			2	25	(12) MICROWAVE	
23 (23) F	IRE CONTROL SYSTEM	20	1					500	360	1	20	(9) KEG COOLER WITH TAP	
25 Recep 27 SPAR	otacle E	20	1	1570	0	0	0			1	20 20	SPARE SPARE	
9 SPAR	E	20	1	0	0			0	0	1	20	SPARE SPARE	
33 SPAR		20	1			0	0			1	20	SPARE	
35  SPAR 37  SPAC	E	20	1					0	0	1	20	SPARE SPACE	
39 SPAC	E		1							1		SPACE	
I SPAC		Total I	1 Load:	104	74 VA	100	14 VA	409	 0 VA	1		SPACE	
		Total A	mps:	9	5 A	91	1 A	34	1 A				
oad Clas	sification	Co	onnec	ted Load	D	emand Fa	actor	Estimat	ed Dema	nd		Panel Totals	
ower eceptacle	9		100 2357	u va 78 VA		100.00% 71.21%	/o , 0	10 167	00 VA 789 VA			Total Conn. Load: 24578 VA	
												Total Est. Demand: 17789 VA Total Conn. Current: 73 A	
											Т	otal Est. Demand Current: 49 A	
otes:	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1					Wires:	3					MCB Rating: 225 A	
otes:	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1	Trip	Pol			Wires:	4			Pol	Trip	MCB Rating: 225 A	
otes:	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description	<b>Trip</b> (A) 20	Pol es 1	180	<b>A</b> 500	Wires:	3 4 B		2	Pol es 1	<b>Trip</b> (A) 20	MCB Rating: 225 A Circuit Description Power	
K Recep Recep Recep CP-2	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description	<b>Trip</b> (A) 20 20 20	Pol es 1 1	180	<b>A</b> 500	Vires:	B 540	186	900	<b>Pol</b> es 1 1	<b>Trip</b> ( <b>A</b> ) 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125	
K Recep Recep CP-2 Recep	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description Machine Intacle	<b>Trip</b> (A) 20 20 20 20	Pol es 1 1 1 1 1 1 1	180 180	<b>A</b> 500 180	1080	B 540	186	900	Pol es 1 1 1 1	<b>Trip</b> ( <b>A</b> ) 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Receptacle Receptacle	
K Recep Recep Recep Recep Recep Recep Recep Recep	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description Macle Macle Macle Macle HOLDING AREA 126 Macle OFFICE 2 105	Trip (A)           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20	Pol es 1 1 1 1 1 1 1 1 1 1	180 180	<b>A</b> 500 180	1080	B 540 540 1080	186	900	Pol es 1 1 1 1 1 2	<b>Trip</b> ( <b>A</b> ) 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Receptacle Receptacle Room 109, 108 HP-3	
K Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description Macle Macle Macle HOLDING AREA 126 Macle OFFICE 2 105	<b>Trip</b> (A) 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 2 	180 180 180 1500	<b>A</b> 500 180 1560	1080 11500	B 540 540 1080 180	186	900	Pol es 1 1 1 1 1 2  1	<b>Trip</b> ( <b>A</b> ) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A	
K Recep Rece	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description Macle Macle Macle HOLDING AREA 126 Macle OFFICE 2 105	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 2  2	180 180 180 1500	A 500 180 1560	1080 11500	3 4 8 8 540 1080 1080 180	( 186 1000 1000	900 900 1560 1664	Pol es 1 1 1 1 1 2  1 2	<b>Trip</b> ( <b>A</b> ) 20 20 20 20 20 25  20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1	
K R Recep Rec	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description Matacle Matacle Matacle HOLDING AREA 126 Matacle OFFICE 2 105	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Pol es 1 1 1 1 1 1 2  2  2	180 180 180 1500 1560	A 500 180 1560 1664	Image: Constraint of the sector of the se	B 540 540 1080 180 180	( 186 1000 1560	2 900 1560 1664	Pol es 1 1 1 1 1 2  1 2  1	<b>Trip</b> ( <b>A</b> ) 20 20 20 20 20 20 25  20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle	
K         Recep         Recep <td>Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description Macle Macle Macle HOLDING AREA 126 Macle OFFICE 2 105</td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>Pol es 1 1 1 1 1 1 1 2 2  2 2  2 2</td> <td>180 180 1500 1560 2500</td> <td>A 500 180 1560 1664 360</td> <td>Image: Control of the second secon</td> <td>B 540 540 1080 1080 180 180</td> <td>186 186 1000 1560 2500</td> <td>900 1560 1664 180</td> <td>Pol es 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1</td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 2 101B Receptacle TICKETING 2 101B R WAITING ROOM 102</td> <td></td>	Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1 Circuit Description Macle Macle Macle HOLDING AREA 126 Macle OFFICE 2 105	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Pol es 1 1 1 1 1 1 1 2 2  2 2  2 2	180 180 1500 1560 2500	A 500 180 1560 1664 360	Image: Control of the second secon	B 540 540 1080 1080 180 180	186 186 1000 1560 2500	900 1560 1664 180	Pol es 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 2 101B Receptacle TICKETING 2 101B R WAITING ROOM 102	
K       Recep         3       Recep         4       Recep         5       CP-2         7       Recep         9       Recep         1       Power         3       R IT         5          7       HP-4         9          1       AHU-4         3          5       AHU-3         7          0       Recep	Supply From: MDP         Mounting: SURFACE         Enclosure: NEMA 1         Circuit Description         stacle         stacle HOLDING AREA 126         stacle OFFICE 2 105         stacle HOLDING AREA 126	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 2  2  2 2  2 1	180 180 180 1500 1560 2500	A 500 180 1560 1664 360	<ul> <li>Priases.</li> <li>Wires:</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>1080</li> <li>1080</li> <li>1500</li> <li>2500</li> <li>2500</li> <li>2500</li> </ul>	3 4 4 8 540 1080 1080 180 180 180 180 360	186 1000 1560 2500	900 900 1560 1664 180 180	Pol es 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A         Circuit Description         Power         Receptacle         Receptacle HALLWAY 125         Receptacle Room 109, 108         HP-3            Receptacle TICKETING 1 101A         EUH-1            Receptacle         Receptacle TICKETING 2 101B         Receptacle TICKETING 2 101B         R WAITING ROOM 102         Receptacle Room 117         Pacentacle TICKETING 2 101B	
K       Recep         B       Recep         CP-2       Recep         CP-2       Recep         Recep	Supply From: MDP         Mounting: SURFACE         Enclosure: NEMA 1         Circuit Description         stacle         stacle HOLDING AREA 126         stacle OFFICE 2 105         stacle HOLDING AREA 126         stacle HOLDING AREA 126         stacle HOLDING AREA 126	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 35  35  35  35  20 20 20	Poles 1 1 1 1 1 1 1 1 2  2 2  2 2  2 1 1	180 180 180 1500 1560 2500 720	A 500 180 1560 1664 360 720	<ul> <li>Priases.</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>1080</li> <li>1080</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>2500</li> </ul>	B 540 540 1080 180 180 180 360	186 186 1000 1560 2500 180	2 900 1560 1664 180 360	Pol es 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 1 101A EUH-1  Receptacle Room 109, 108 HP-3  Receptacle TICKETING 2 101B Receptacle Room 117 Receptacle Room 117 Receptacle TICKETING 2 101B Receptacle TICKETING 2 101B Receptacle Room 117	
K       Recep         B       Recep         CP-2       Recep         CP-2       Recep         D       Recep         1       Power         3       R IT         5          7       HP-4         9          1       AHU-4         3          5       AHU-3         7          9       Recep         1       Recep         3       Recep         1       Recep         3       Recep         4       Recep         5       Recep         5       Recep         5       Recep	Supply From: MDP         Mounting: SURFACE         Enclosure: NEMA 1         Circuit Description         stacle         stacle HOLDING AREA 126         stacle OFFICE 2 105         stacle HOLDING AREA 126	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 35  35  35  35  20 20 20 20 20	Poles 1 1 1 1 1 1 2  2  2  2  2 1 1 1 1	180 180 180 1500 1560 2500 720	A 500 180 1560 1664 360 720	<ul> <li>Priases.</li> <li>Wires:</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>1080</li> <li>1500</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>720</li> </ul>	3 4 3 3 4 3 4 3 4 3 4 3 4 3 60 3 60 3 60	( 186 186 1000 1560 2500 2500 180 180	2 900 1560 1664 180 360 360	Pol es 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 1 101A EUH-1  Receptacle Room 109 Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle Room 117 Receptacle TICKETING 2 101B Receptacle Room 117 Receptacle Room 117 Receptacle Receptacle	
KRecep	Supply From: MDP         Mounting: SURFACE         Enclosure: NEMA 1         Circuit Description         stacle         stacle HOLDING AREA 126         stacle OFFICE 2 105         stacle HOLDING AREA 126         stacle Room 121	Trip (A) 20 20 20 20 20 20 20 20 20 20 35  35  35  35  35  20 20 20 20 20 20	Poles 1 1 1 1 1 1 2  2  2  2  2  2  1 1 1 1	180 180 180 1500 1560 2500 720 720	A 500 180 1560 1664 360 720 1248	<ul> <li>Pilases.</li> <li>Wires:</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>180</li> <li>1080</li> <li>1500</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>720</li> <li>720</li> <li>1000</li> </ul>	<ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>1080</li> <li>180</li> <li>180</li> <li>180</li> <li>360</li> <li>360</li> <li>720</li> <li>720</li> <li>1248</li> </ul>	186 186 1000 1560 2500 1560 180 180	2 900 1560 1664 180 360 720	Poles 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 1 101A EUH-1  Receptacle Room 102 Receptacle Room 117 Receptacle Room 117 Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle TICKETING 2 101B Receptacle Room 117 Receptacle Room 117 Receptacle Room 117 Receptacle Room 117 Receptacle TICKETING 2 101B Receptacle TICKETING 2 101B Receptacle TICKETING 2 101B	
K Recep Recep Recep Recep Recep Recep Recep Recep Recep A Recep A Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep Recep	Supply From: MDP         Mounting: SURFACE         Enclosure: NEMA 1             Mathematical Provide the second seco	Trip (A)           20	Poles         1         1         1         1         1         1         1         1         2            2            2            2            1         1         1         1         1         1         1         1         1	180 180 1500 1560 2500 720 1000	A 500 180 1560 1664 360 720 1248	Priases. Wires:	<ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>1080</li> <li>1080</li> <li>180</li> <li>180</li> <li>360</li> <li>360</li> <li>720</li> <li>720</li> <li>1248</li> <li>1248</li> </ul>	186 186 1000 1560 2500 2500 180 180 720 720	2 900 1560 1560 1664 180 180 360 720 720	Poles 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle IICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle HP-1  HP-5	
KRecep	Supply From: MDP         Mounting: SURFACE         Enclosure: NEMA 1         Circuit Description         stacle         stacle         stacle HOLDING AREA 126         stacle OFFICE 2 105         stacle HOLDING AREA 126         stacle Room 121	Trip (A)           20	Poles 1 1 1 1 1 1 1 1 2  2  2  2  1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 1500 1560 2500 720 1000 1440	A 500 180 1560 1664 360 720 1248	<ul> <li>Pilases.</li> <li>Wires:</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>180</li> <li>1080</li> <li>1080</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>720</li> <li>720</li> <li>1000</li> <li>1248</li> </ul>	<ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>1080</li> <li>1080</li> <li>180</li> <li>180</li> <li>360</li> <li>360</li> <li>360</li> <li>1248</li> <li>1248</li> <li>2000</li> </ul>	186 186 1000 1560 2500 2500 180 180 720 720 1000	2 900 1560 1560 1664 180 180 360 720 720	Poles 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle HP-1  HP-5  AHU-2	
KRecep	Circuit Description Circuit Descriptic Description Circuit Description Circuit Descrip	Trip (A)           20	Pol es 1 1 1 1 1 1 1 2  2  2  1 1 1 1 1 1 1 1 1 1 1 1 1	180 180 1500 1560 2500 720 1000 1440	A 500 180 1560 1664 360 720 1248 1248	Priases. Wires: Wires:	<ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>1080</li> <li>180</li> <li>180</li> <li>360</li> <li>360</li> <li>720</li> <li>720</li> <li>1248</li> <li>2000</li> <li>2000</li> </ul>	186 186 1000 1560 2500 2500 1560 1560 1000 1000	2 900 1560 1664 180 180 360 720 720 1248 1248	Poles 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Receptacle Room 109, 108 HP-3 Receptacle Room 109, 108 HP-3 Receptacle TICKETING 1 101A EUH-1 Receptacle Receptacle Receptacle Room 117 Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle HP-1 HP-5 HP-5 AHU-2 OVER HEAD DOOP	
A         Recep         Recep <td>Circuit Description  tacle  tacle  tacle HOLDING AREA 126  tacle OFFICE 2 105  tacle HOLDING AREA 126  tacle Room 121  BACCAGE CLAIM-1 121-1  BACCAGE CLAIM-1 121-1</td> <td>Trip (A)           20  </td> <td>Poles 1 1 1 1 1 1 1 1 2 </td> <td>180 180 180 1500 1560 2500 720 720 1000 1440 2000</td> <td>A 500 180 1560 1664 360 720 1248 1248</td> <td><ul> <li>Pilases.</li> <li>Wires:</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>180</li> <li>1080</li> <li>1080</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>1248</li> <li>1248</li> <li>2000</li> </ul></td> <td><ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>1080</li> <li>180</li> <li>180</li> <li>180</li> <li>360</li> <li>360</li> <li>360</li> <li>1248</li> <li>2000</li> <li>2000</li> <li>167</li> </ul></td> <td><ul> <li>186</li> <li>186</li> <li>1000</li> <li>1560</li> <li>2500</li> <li>2500</li> <li>180</li> <li>2500</li> <li>180</li> <li>1000</li> <li>1000</li> <li>1248</li> <li>1248</li> <li>1248</li> </ul></td> <td>2 900 1560 1560 1664 180 360 360 720 1248 1248</td> <td>Poles 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle TICKETING 1 101A EUH-1 Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle HP-1 HP-5 AHU-2 OVER HEAD DOOR</td> <td></td>	Circuit Description  tacle  tacle  tacle HOLDING AREA 126  tacle OFFICE 2 105  tacle HOLDING AREA 126  tacle Room 121  BACCAGE CLAIM-1 121-1  BACCAGE CLAIM-1 121-1	Trip (A)           20	Poles 1 1 1 1 1 1 1 1 2 	180 180 180 1500 1560 2500 720 720 1000 1440 2000	A 500 180 1560 1664 360 720 1248 1248	<ul> <li>Pilases.</li> <li>Wires:</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>180</li> <li>1080</li> <li>1080</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>1248</li> <li>1248</li> <li>2000</li> </ul>	<ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>1080</li> <li>180</li> <li>180</li> <li>180</li> <li>360</li> <li>360</li> <li>360</li> <li>1248</li> <li>2000</li> <li>2000</li> <li>167</li> </ul>	<ul> <li>186</li> <li>186</li> <li>1000</li> <li>1560</li> <li>2500</li> <li>2500</li> <li>180</li> <li>2500</li> <li>180</li> <li>1000</li> <li>1000</li> <li>1248</li> <li>1248</li> <li>1248</li> </ul>	2 900 1560 1560 1664 180 360 360 720 1248 1248	Poles 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle HALLWAY 125 Receptacle Receptacle Receptacle Receptacle Receptacle Receptacle TICKETING 1 101A EUH-1 Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle HP-1 HP-5 AHU-2 OVER HEAD DOOR	
A       Recep         Recep       Recep         Recep<	Circuit Description  Circuit D	Trip         20 <td>Poles 1 1 1 1 1 1 1 2 </td> <td>180 180 180 1500 1560 2500 720 720 1000 1440 2000</td> <td>A 500 180 1560 1664 360 720 1248 1248 1248</td> <td><ul> <li>Pilases.</li> <li>Wires:</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>180</li> <li>1080</li> <li>1080</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>1248</li> <li>1248</li> <li>2000</li> <li>2000</li> </ul></td> <td><ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>1080</li> <li>180</li> <li>180</li> <li>180</li> <li>360</li> <li>360</li> <li>360</li> <li>1248</li> <li>2000</li> <li>167</li> <li>167</li> </ul></td> <td><ul> <li>186</li> <li>186</li> <li>186</li> <li>1000</li> <li>1560</li> <li>2500</li> <li>2500</li> <li>180</li> <li>180</li> <li>1000</li> <li>11248</li> <li>1248</li> <li>2000</li> <li>2000</li> </ul></td> <td>2 900 1560 1560 1664 180 360 360 720 1248 2000</td> <td>Pol es 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1 1</td> <td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle Room 117 Receptacle Room 117 Receptacle Room 117 Receptacle Room 117 Receptacle IICKETING 2 101B Receptacle Receptacle Receptacle HP-1  HP-5  AHU-2  OVER HEAD DOOR  OVER HEAD DOOR</td> <td></td>	Poles 1 1 1 1 1 1 1 2 	180 180 180 1500 1560 2500 720 720 1000 1440 2000	A 500 180 1560 1664 360 720 1248 1248 1248	<ul> <li>Pilases.</li> <li>Wires:</li> <li>Wires:</li> <li>180</li> <li>180</li> <li>180</li> <li>1080</li> <li>1080</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>2500</li> <li>1248</li> <li>1248</li> <li>2000</li> <li>2000</li> </ul>	<ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>1080</li> <li>180</li> <li>180</li> <li>180</li> <li>360</li> <li>360</li> <li>360</li> <li>1248</li> <li>2000</li> <li>167</li> <li>167</li> </ul>	<ul> <li>186</li> <li>186</li> <li>186</li> <li>1000</li> <li>1560</li> <li>2500</li> <li>2500</li> <li>180</li> <li>180</li> <li>1000</li> <li>11248</li> <li>1248</li> <li>2000</li> <li>2000</li> </ul>	2 900 1560 1560 1664 180 360 360 720 1248 2000	Pol es 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1  Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle Room 117 Receptacle Room 117 Receptacle Room 117 Receptacle Room 117 Receptacle IICKETING 2 101B Receptacle Receptacle Receptacle HP-1  HP-5  AHU-2  OVER HEAD DOOR  OVER HEAD DOOR	
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K         K         I       Recep         3       Recep         4       Recep         5       CP-2         7       Recep         1       Power         3       RIT         5          7       HP-4         9          1       AHU-4         3          9       Recep         1       AHU-4         3          9       Recep         1       AHU-3         7       Power         1       Recep         3       Recep         4       Recep         3       Recep         5       Recep         7       Power         1       Recep         3       WINDU         5       HP-4         7          9       Power         1          3       AHU-5         5          7       Power         1          3       Power </td <td>Circuit Description  tacle  Circuit Description  tacle  tacle HOLDING AREA 126  tacle OFFICE 2 105  tacle HOLDING AREA 126  tacle Secret Secre</td> <td>Trip (A)           20</td> <td>Poles         1      <tr tr=""></tr></td> <td>180 180 180 1500 2500 720 720 1000 720 1000 2000 1440 2000 1440 2000 167 167</td> <td>A 500 180 1560 1664 360 720 1248 1248 1248 167 167 167 167 167 167 167 167</td> <td>Pilases. Wires: Vires:</td> <td><ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>180</li> <li>180</li> <li>180</li> <li>360</li> <li>720</li> <li>180</li> <li>2000</li> <li>1248</li> <li>2000</li> <li>167</li> <li>167</li></ul></td> <td><ul> <li>186</li> <li>186</li> <li>186</li> <li>1000</li> <li>1560</li> <li>2500</li> <li>2500</li> <li>180</li> <li>1248</li> <li>1000</li> <li>1248</li> <li>1000</li> <li>11000</li> <l< td=""><td>2 900 1560 1664 180 180 360 720 1248 2000 1248 2000 167 167 167 167</td><td>Poles 1 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>MCB Rating: 225 A  Circuit Description  Power  Receptacle Receptacle HALLWAY 125 Receptacle Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1 Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle HP-1 HP-5 HP-5 AHU-2 OVER HEAD DOOR Power BAGGAGE SCREENING 101C Power SCREENING AREA 102 POWER SCREENIN</td><td></td></l<></ul></td>	Circuit Description  tacle  Circuit Description  tacle  tacle HOLDING AREA 126  tacle OFFICE 2 105  tacle HOLDING AREA 126  tacle Secret Secre	Trip (A)           20	Poles         1 <tr tr=""></tr>	180 180 180 1500 2500 720 720 1000 720 1000 2000 1440 2000 1440 2000 167 167	A 500 180 1560 1664 360 720 1248 1248 1248 167 167 167 167 167 167 167 167	Pilases. Wires: Vires:	<ul> <li>3</li> <li>4</li> <li>540</li> <li>540</li> <li>1080</li> <li>180</li> <li>180</li> <li>180</li> <li>360</li> <li>720</li> <li>180</li> <li>2000</li> <li>1248</li> <li>2000</li> <li>167</li> <li>167</li></ul>	<ul> <li>186</li> <li>186</li> <li>186</li> <li>1000</li> <li>1560</li> <li>2500</li> <li>2500</li> <li>180</li> <li>1248</li> <li>1000</li> <li>1248</li> <li>1000</li> <li>11000</li> <l< td=""><td>2 900 1560 1664 180 180 360 720 1248 2000 1248 2000 167 167 167 167</td><td>Poles 1 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>MCB Rating: 225 A  Circuit Description  Power  Receptacle Receptacle HALLWAY 125 Receptacle Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1 Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle HP-1 HP-5 HP-5 AHU-2 OVER HEAD DOOR Power BAGGAGE SCREENING 101C Power SCREENING AREA 102 POWER SCREENIN</td><td></td></l<></ul>	2 900 1560 1664 180 180 360 720 1248 2000 1248 2000 167 167 167 167	Poles 1 1 1 1 1 1 2  1 2  1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A  Circuit Description  Power  Receptacle Receptacle HALLWAY 125 Receptacle Receptacle Room 109, 108 HP-3  Receptacle TICKETING 1 101A EUH-1 Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle HP-1 HP-5 HP-5 AHU-2 OVER HEAD DOOR Power BAGGAGE SCREENING 101C Power SCREENING AREA 102 POWER SCREENIN	
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K         I       Recep         3       Recep         5       CP-2         7       Recep         1       Power         3       RIT         5          7       HP-4         9          1       AHU-4         3          5       AHU-3         7          9       Recep         1       AHU-4         3          5       AHU-3         7          9       Recep         1       Recep         3       Recep         1       Recep         3       Recep         1       Recep         3       WIND0         5       HP-4         9       Power         1          9       AHU-5         5          7       Power         1          3       Power         1          3       Power         5	Circuit Description Circui	Trip (A)           20	Poles         1 <tr tr=""></tr>	180 180 180 1500 1560 2500 720 1000 1440 2000 1440 2000 167 167 167 167 167 167 167 167	A 500 180 1560 1664 360 720 1248 1248 1248 1248 167 167 167 167 167 167 167 167	Pilases. Wires: Wires: 180 180 180 1080 1080 2500 2500 2500 1500 1500 2500 1000 <	3         4         540         540         1080         1080         1080         1180         1		2 900 1560 1664 180 360 720 1248 2000 1248 2000 167 167 167 167 167 167 167	Pol es 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1 1 1 1 1	Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20	MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Receptacle Room 109, 108 HP-3 Receptacle TICKETING 1 101A EUH-1 Receptacle TICKETING 2 101B R WAITING ROOM 102 Receptacle Room 117 Receptacle Room 117 Receptacle Receptacle Receptacle Receptacle HP-1 HP-5 AHU-2 OVER HEAD DOOR Power BAGGAGE SCREENING 101C Power SCREENING AREA 102 WINDOW SHADES HOLDING AREA-1 115-1 RPARE SPACE SPACE SPACE SPACE SPACE	
K         K         I       Recep         3       Recep         5       CP-2         7       Recep         1       Power         3       RIT         5          7       HP-4         9          1       AHU-4         3          5       AHU-3         7       Power         9       Recep         1       AHU-4         3       Recep         1       Recep         3       Recep         3       Recep         1       Recep         3       WINDU         5       HP-4         9       Power         1       Recep         3       WINDU         5       HP-4         7          9       AHU-1         1          3       AHU-5         5          7       Power         1          3       Power         1 <td>Supply From: MDP         Mounting: SURFACE         Enclosure: NEMA 1             itacle             itacle             itacle             itacle             itacle             itacle             itacle HOLDING AREA 126             itacle HOLDING AREA 126             itacle HOLDING AREA 126             itacle Room 121             itacle             itacle Room 121             itacle             SCREENING AREA 102             itacle             itacle             itacle             itacle             itacle             itacle             itacle             itacle             itacle             itacle</td> <td>Trip         20     <td>Pol         1      <tr tr=""></tr></td><td>180 180 180 1500 1500 2500 720 1000 1440 2000 1440 2000 167 167 167 167 167 167 167 167</td><td>A 500 180 180 1560 1664 360 720 1248 167 167 167 167 167 167 167 167</td><td>Inases.         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Wires:         180         180         1080         1500         2500         2500         2500         1000         1248         2000         167         167         2000         167         167         100.00%</td> <td>3       4       540       540       1080       1080       1180       180   <td>■ 186 ■ 186 ■ 186 ■ 1000 ■ 1560 ■ 1560 ■ 1560 ■ 1560 ■ 1560 ■ 1560 ■ 1560 ■ 1000 ■</td><td>2 900 1560 1560 1664 180 360 720 1248 2000 1248 2000 107 167 167 167 167 167 167 167 167 3 VA 3 VA 3 A</td><td>Pol es 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1 1 1 1</td><td>Trip (A) 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>MCB Rating: 225 A Circuit Description Power Receptacle Receptacle HALLWAY 125 Receptacle Room 109, 108 HP-3 - Receptacle Room 109, 108 HP-3 - Receptacle TICKETING 1 101A EUH-1 - Receptacle Room 117 Receptac</td><td></td></td>	Pol         1 <tr tr=""></tr>	180 180 180 1500 1500 2500 720 1000 1440 2000 1440 2000 167 167 167 167 167 167 167 167	A 500 180 180 1560 1664 360 720 1248 167 167 167 167 167 167 167 167	Inases.         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DATE 10/18/2024

REPLACEMENT

PROJECT NAME TERMINAL

PROJECT NO. 2226

CONSTRUCTION DOCUMENTS





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