

**SECTION 00 90 01  
BIDDING AND CONTRACT REQUIREMENTS  
ADDENDUM NUMBER (3)**

**Demonica Kemper Associates  
100 Harrison Street  
Peoria, IL 61602  
309.282.0170**

To: Prospective Bidders

Issued: April 22nd, 2024

**Re: ADDENDUM NUMBER (3) TO THE BIDDING DOCUMENTS FOR**

**Peoria Park District  
Golf Entertainment Facility Renovation an Addition  
Architect's Project Number: 22-051**

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents dated April 9, 2024. Acknowledge receipt of this addendum in the space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

**ADDENDA TO THE PROJECT MANUAL**

1. Section 284621.13,

**ADDENDA TO THE DRAWINGS**

**ARCHITECTURAL**

1. A2.11 – FIRST FLOOR REFLECTED CEILING PLAN
2. A2.21 – SECOND FLOOR REFLECTED CEILING PLAN

**ELECTRICAL – SEE REVISED SHEETS BELOW**

1. E1.11 – FIRST FLOOR PLAN – RANGE BAYS – LIGHTING
2. E1.21 – SECOND FLOOR PLAN – RANGE BAYS – LIGHTING
3. E2.1 – ELECTRICAL BRANCH PANEL SCHEDULES
4. E3.0 – ENLARGED FLOOR PLAN – POWER & SYSTEMS
5. E4.0 – FIRE ALARM AND ACCESS CONTROL SCHEDULES AND DETAILS
6. E4.2 – LIGHTING AND CONTROLS SCHEDULE AND DETAILS
7. E5.0 – ELECTRICAL GENERAL NOTES & DETAILS

**CLARIFICATIONS – ALL ANSWERS TO CONTRACTOR QUESTIONS BELOW IN RED**

E1.01 Restrooms each show 4 – 2x2 “B” fixtures. A2.11 shows 5 in each of the restrooms.  
4 lights are acceptable per the electrical plans – revised on the architectural ceiling plans attached.

A2.11 Private Event 102 looks to have can lights in the ceiling. These are not shown on E1.01 so I want to confirm if those are can lights or something else.

Golf simulators are to be provided by the owner. Can lighting shown can be removed. Coordination with owners/ golf simulator rep will be required for lighting requirements.

Peoria Park District  
Golf Entertainment Facility Renovation &  
Addition  
DKA Project No.: 22-051

ADDENDUM NO. 3  
Section 00 90 01

A2.11 and E1.11 – the can lights don't match in 113, 114 and the space between the two rooms. Same on 2<sup>nd</sup> Floor RCP and E1.21.

Architectural ceiling plan revised to match the electrical plans within the restrooms and serving stations. A suspended can light has been added to the electrical drawings to match the architectural. See below.

E1.11 and E1.21 – K1 LED strip appears to run vertically up the east and west ends of the south side and then horizontally along the south. A2.11 has notes about it running the perimeter of the east end. Can we review these plans to make sure they match?

Lighting plans have been revised to show the led strip lighting around the wide flange "picture frame" Refer to architectural section details 1,2 and 3 on sheet A7.03 for additional clarification.

In the project drawings, I noticed a potential overlap concerning which party is responsible for certain landscaping tasks. Drawing C3.00 states that "All site restoration and landscape are to be provided by Peoria Park District/Owner." And under Erosion Control in Drawing C1.01 (#7), it is mentioned that "the contractor shall provide seeding and/or sodding ..." Could you provide any guidance as to whether the contractor's responsibilities for seeding and sodding are intended only as initial erosion control measures? And, subsequently, does the owner take over for final landscaping and site restoration post-construction?

C1.01 #7 should be corrected to state that "Owner will provide final shaping, seeding and/or sodding. Contractor will be responsible for rough grading and erosion control items and any required temporary seeding per the erosion control plan. Owner will provide all permanent seeding. Contractor will coordinate with Owner for access to the site for final shaping, seeding and/or sodding and landscape items near substantial completion of site related infrastructure and improvements."

**This addendum consists of (2) pages, excluding attachments.**

**END 009001.**

**Attachments:**

1. REVISED SPEC 28 46 21.13
2. A2.11 – FIRST FLOOR REFLECTED CEILING PLAN
3. A2.21 – SECOND FLOOR REFLECTED CEILING PLAN
4. E1.11 – FIRST FLOOR PLAN – RANGE BAYS – LIGHTING
5. E1.21 – SECOND FLOOR PLAN – RANGE BAYS – LIGHTING
6. E2.1 – ELECTRICAL BRANCH PANEL SCHEDULES
7. E3.0 – ENLARGED FLOOR PLAN – POWER & SYSTEMS
8. E4.0 – FIRE ALARM AND ACCESS CONTROL SCHEDULES AND DETAILS
9. E4.2 – LIGHTING AND CONTROLS SCHEDULE AND DETAILS
10. E5.0 – ELECTRICAL GENERAL NOTES & DETAILS



ADDENDUM # : 03

DATE ISSUED : April 22, 2024

## ADDENDUM

**Attention :** Arron Elmore  
Demonica Kemper Architects  
100 Harrison St.  
Peoria, IL 61602

**Subject :** Addendum #3  
To The Bid Documents For:  
PPD - Golf Learning Center  
7815 Radnor Rd.  
Peoria, IL 61615

### Specifications

1. Added section 284621.13 – CONVENTIONAL FIRE ALARM SYSTEMS to specifications package.

### Drawings

2. Drawing E1.11 – FIRST FLOOR PLAN – RANGE BAYS - LIGHTING
  - a. Added fixture type 'P' for 6" cylinder pendant fixture in short corridor between restroom and server rooms. Coordinate mounting heights with architect prior to release.
  - b. Revise LED tape light layout of fixture type 'K1'.
  - c. Revise keyed note #2 describing installation of fixture type 'K1' in framed openings on exterior walls.
  - d. Add detail #2 for installation of LED tape light around framed openings to show power supply requirements and circuiting.
  - e. Add keyed note #8 for clarification of detail #2.
3. Drawing E1.21 – SECOND FLOOR PLAN – RANGE BAYS - LIGHTING
  - a. Added fixture type 'P' for 6" cylinder pendant fixture in short corridor between restroom and server rooms. Coordinate mounting heights with architect prior to release.
  - b. Revise LED tape light layout of fixture type 'K1'.
  - c. Revise keyed note #5 describing installation of fixture type 'K1' in framed openings on exterior walls.
4. Drawing E2.1 – ELECTRICAL BRANCH PANEL SCHEDULES
  - a. Revised schedule for panel "K" to reflect corrected hood panel circuiting from 3-phase to single phase.
  - b. Added shunt trip space below hood breaker for associated fire suppression hood shunt trip installation.
  - c. Revise panel type "P2" from 54-space panel to a 72-space panel.
  - d. Revise schedule for panel "P2" for LED tape light circuiting and panel size changes.
5. Drawing E3.0 – ENLARGED FLOOR PLAN – POWER & SYSTEMS
  - a. Revised connection for kitchen hood control panel from 3-phase to single phase.
  - b. Added keyed note #14 for installation of hood shunt trip breaker.

6. Drawing E4.0 – FIRE ALARM AND ACCESS CONTROL SCHEDULES AND DETAILS
  - a. Revised fire alarm schedule to clarify installation of non-addressable, conventional fire alarm system removing requirement of addressability of devices.
7. Drawing E4.2 – LIGHTING AND CONTROLS SCHEDULE AND DETAILS
  - a. Added fixture type 'P' to schedule for installation of 6" pendant cylinder fixtures.
  - b. Added box note to add approved manufacturers for lighting and controls.
8. Drawing E5.0 – ELECTRICAL GENERAL NOTES & DETAILS
  - a. Revise material schedule to correct transformer sizing from 100kVA to corrected 75kVA.

#### Attachments

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Specifications: Section 284621.13, Drawings: E1.11, E1.21, E2.1, E3.0, E4.0, E4.2, E5.0



Signature

Alan Mowry  
Electrical Designer  
Printed Name & Title

## SECTION 284621.13 - CONVENTIONAL FIRE-ALARM SYSTEMS

### PART 1 - GENERAL

#### 1.1 SUMMARY

##### A. Section Includes:

1. Fire-alarm control unit.
2. Manual fire-alarm boxes.
3. System smoke detectors.
4. Carbon monoxide detectors.
5. Nonsystem smoke detectors.
6. Heat detectors.
7. Notification appliances.
8. Digital alarm communicator transmitter.

##### B. Related Requirements:

1. Section 260519 "Low-Voltage Electrical Power Conductors and Cables" for cables and conductors for fire-alarm systems.

#### 1.2 DEFINITIONS

A. EMT: Electrical Metallic Tubing.

B. FACP: Fire Alarm Control Panel.

C. NICET: National Institute for Certification in Engineering Technologies.

#### 1.3 ACTION SUBMITTALS

##### A. General Submittal Requirements:

1. Submittals shall be approved by authorities having jurisdiction prior to submitting them to Architect.
2. Shop Drawings shall be prepared by persons with the following qualifications:
  - a. Trained and certified by manufacturer in fire-alarm system design.
  - b. NICET-certified fire-alarm technician; [Level III] [Level IV] minimum.
  - c. Licensed or certified by authorities having jurisdiction.

B. Product Data: For each type of product, including furnished options and accessories.

1. Include construction details, material descriptions, dimensions, and profiles and finishes.
2. Include rated capacities, operating characteristics, and electrical characteristics.

C. Shop Drawings: For fire-alarm system.

1. Comply with recommendations and requirements in the "Documentation" section of the "Fundamentals" chapter in NFPA 72.
2. Include plans, elevations, sections, details, and attachments to other work.
3. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and locations. Indicate conductor sizes, indicate termination locations and requirements, and distinguish between factory and field wiring.
4. Detail assembly and support requirements.
5. Include voltage drop calculations for notification-appliance circuits.
6. Include battery size calculations.
7. Include input/output matrix.
8. Include statement from manufacturer that all equipment and components have been tested as a system and meet all requirements in this Specification and in NFPA 72.
9. Include performance parameters and installation details for each detector.
10. Verify that each duct smoke detector is listed for the complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
11. Provide program report showing that air-sampling detector pipe layout balances pneumatically within the airflow range of the air-sampling detector.
12. Include plans, sections, and elevations of heating, ventilating, and air-conditioning ducts, drawn to scale; coordinate location of duct smoke detectors and access to them.
  - a. Show critical dimensions that relate to placement and support of sampling tubes, detector housing, and remote status and alarm indicators.
  - b. Show field wiring required for HVAC unit shutdown on alarm.
  - c. Show air-sampling detector pipe routing.

D. Delegated Design Submittal: For notification appliances and smoke and heat detectors, in addition to submittals listed above, indicate compliance with performance requirements and design criteria, including analysis data, signed and sealed by the qualified professional engineer responsible for their preparation.

1. Drawings showing the location of each smoke and heat detector, ratings of each, and installation details as needed to comply with listing conditions of the device.
2. Design Calculations: Calculate requirements for selecting the spacing and sensitivity of detection, complying with NFPA 72. Calculate spacing and intensities for strobe signals and sound-pressure levels for audible appliances.
3. Indicate audible appliances required to produce square wave signal per NFPA 72.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Field quality-control reports.
- C. Sample Warranty: For special warranty.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals.
  1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following[ and deliver copies to authorities having jurisdiction]:

- a. Comply with the "Records" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.
- b. Provide the "Fire Alarm and Emergency Communications System Record of Completion Documents" according to the "Completion Documents" article in the "Documentation" section of the "Fundamentals" chapter in NFPA 72.
- c. Complete wiring diagrams showing connections between all devices and equipment. Each conductor shall be numbered at every junction point with indication of origination and termination points.
- d. Riser diagram.
- e. Air-sampling system sample port locations and modeling program report showing layout meets performance criteria.
- f. Record copy of site-specific software.
- g. Provide the "Inspection and Testing Form" according to the "Inspection, Testing and Maintenance" chapter in NFPA 72, and include the following:
  - 1) Equipment tested.
  - 2) Frequency of testing of installed components.
  - 3) Frequency of inspection of installed components.
  - 4) Requirements and recommendations related to results of maintenance.
  - 5) Manufacturer's user training manuals.
- h. Manufacturer's required maintenance related to system warranty requirements.
- i. Abbreviated operating instructions for mounting at fire-alarm control unit and each annunciator unit.

#### 1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Lamps for Remote Indicating Lamp Units: Quantity equal to 10 percent of amount installed, but no fewer than one unit.
  - 2. Lamps for Strobe Units: Quantity equal to 10 percent of amount installed, but no fewer than one unit.
  - 3. Smoke and Fire Detectors: Quantity equal to 10 percent of amount of each type installed, but no fewer than one unit of each type.
  - 4. Detector Bases: Quantity equal to two percent of amount of each type installed, but no fewer than one unit of each type.
  - 5. Keys and Tools: One extra set for access to locked or tamperproofed components.
  - 6. Audible and Visual Notification Appliances: One of each type installed.
  - 7. Fuses: Two of each type installed in the system. Provide in a box or cabinet with compartments marked with fuse types and sizes.
  - 8. Filters for Air-Sampling Detectors: Quantity equal to two percent of amount of each type installed, but no fewer than one unit of each type.

#### 1.7 QUALITY ASSURANCE

- A. Installer Qualifications:
  - 1. Personnel shall be trained and certified by manufacturer for installation of units required for this Project.
- B. NFPA Certification:

1. Obtain certification according to NFPA 72 by a UL-listed alarm company.

## 1.8 PROJECT CONDITIONS

- A. Perform a full test of the existing system prior to starting work. Document any equipment or components not functioning as designed.
- B. Interruption of Existing Fire-Alarm Service: Do not interrupt fire-alarm service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary guard service according to requirements indicated:
  1. Notify Construction Manager no fewer than three days in advance of proposed interruption of fire-alarm service.
  2. Do not proceed with interruption of fire-alarm service without Construction Manager's written permission.
- C. Use of Devices during Construction: Protect devices during construction unless devices are placed in service to protect the facility during construction.

## 1.9 SEQUENCING AND SCHEDULING

- A. Existing Fire-Alarm Equipment: Maintain existing equipment fully operational until new equipment has been tested and accepted. As new equipment is installed, label it "NOT IN SERVICE" until it is accepted. Remove labels from new equipment when put into service, and label existing fire-alarm equipment "NOT IN SERVICE" until removed from the building.
- B. Equipment Removal: After acceptance of new fire-alarm system, remove existing disconnected fire-alarm equipment and wiring.

## 1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace fire-alarm system equipment and components that fail in materials or workmanship within specified warranty period.
  1. Warranty Extent: All equipment and components not covered in the Maintenance Service Agreement.
  2. Warranty Period: Five years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 SYSTEM DESCRIPTION

- A. Source Limitations for Fire-Alarm System and Components: Components shall be compatible with and operate as an extension of existing system. Provide system manufacturer's certification that all components provided have been tested as, and will operate as, a system.
- B. Noncoded system dedicated to fire-alarm service only.
- C. All components provided shall be listed for use with the selected system.



- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

## 2.2 SYSTEMS OPERATIONAL DESCRIPTION

- A. Fire-alarm signal initiation shall be by one or more of the following devices and systems:

1. Manual stations.
2. Heat detectors.
3. Smoke detectors.
4. Duct smoke detectors.
5. Carbon monoxide detectors.
6. Automatic sprinkler system water flow.
7. Dry system pressure flow switch.
8. Kitchen Hood Fire Suppression

- B. Fire-alarm signal shall initiate the following actions:

1. Continuously operate alarm notification appliances.
2. Identify alarm zone at fire-alarm control unit.
3. Transmit an alarm signal to the remote alarm receiving station.
4. Unlock electric door locks in designated egress paths.
5. Switch heating, ventilating, and air-conditioning equipment controls to fire-alarm mode.
6. Activate emergency lighting control.
7. Activate emergency shutoffs for gas and fuel supplies.
8. Record events in the system memory.
9. Record events by the system printer.

- C. Supervisory signal initiation shall be by one or more of the following devices and systems:

1. Valve supervisory switch.
2. Independent fire-detection and -suppression systems.
3. User disabling of zones or individual devices.
4. Loss of communication with any panel on the network.

- D. System trouble signal initiation shall be by one or more of the following devices and actions:

1. Open circuits, shorts, and grounds in designated circuits.
2. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
3. Loss of primary power at fire-alarm control unit.
4. Ground or a single break in internal circuits of fire-alarm control unit.
5. Abnormal ac voltage at fire-alarm control unit.
6. Break in standby battery circuitry.
7. Failure of battery charging.
8. Abnormal position of any switch at fire-alarm control unit.

- E. System Trouble and Supervisory Signal Actions:

1. Initiate notification appliances.
2. Annunciate at fire-alarm control unit.
3. Record the event on system printer.
4. After a time delay of 200 seconds, transmit a trouble or supervisory signal to the remote alarm receiving station.

5. Transmit system status to building management system.

## 2.3 FIRE-ALARM CONTROL UNIT

### A. Acceptable system manufacturers:

1. Simplex
2. EST
3. Notifier

### B. General Requirements for Fire-Alarm Control Unit:

1. Modular, power-limited design with electronic modules, UL 864 listed.
  - a. Include a real-time clock for time annotation of events.
  - b. The FACP shall be listed for connection to a central-station signaling system service.

### C. Alphanumeric Display and System Controls: Display alarm, supervisory, and component status messages and the programming and control menu.

1. Annunciator and Display: Liquid-crystal type, one line of 40 characters, minimum.

### D. Circuits:

1. No Fewer Than Five Initiating-Device Circuits:
  - a. Four circuits, NFPA 72, Class B.
  - b. One circuit(s), NFPA 72, Class A.
2. No Fewer Than Two Notification-Appliance Circuits: NFPA 72, Class B.
3. Serial Interfaces:
  - a. One RS 232 port for printer.
  - b. One RS 232 port for personal computer configuration.

### E. Smoke-Alarm Verification:

1. Initiate audible and visible indication of an "alarm-verification" signal at fire-alarm control unit.
2. Activate an approved "alarm-verification" sequence at fire-alarm control unit and detector.
3. Record events by the system printer.
4. Sound general alarm if the alarm is verified.
5. Cancel fire-alarm control unit indication and system reset if the alarm is not verified.

### F. Notification-Appliance Circuit: Operation shall sound a three pulse temporal pattern as defined in NFPA 72.

### G. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station.

### H. Printout of Events: On receipt of signal, print alarm, supervisory, and trouble events. Identify zone and function. Include type of signal (alarm, supervisory, or trouble) and date and time of occurrence. Differentiate alarm signals from all other printed indications. Also print system reset

event, including same information for zone, date, and time. Commands initiate the printing of a list of existing alarm, supervisory, and trouble conditions in the system and a historical log of events.

- I. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory signals supervisory and digital alarm communicator transmitters shall be powered by the 24-V dc source.
  - 1. Alarm current draw of the entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.
- J. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.
- K. Instructions: Computer printout or typewritten instruction card mounted behind a plastic or glass cover in a stainless steel or aluminum frame. Include interpretation and describe appropriate response for displays and signals. Briefly describe the functional operation of the system under normal, alarm, and trouble conditions.

## 2.4 MANUAL FIRE-ALARM BOXES

- A. Acceptable system manufacturers:
  - 1. Simplex
  - 2. EST
  - 3. Notifier
- B. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38. Boxes shall be finished in red with molded, raised-letter operating instructions in contrasting color; shall show visible indication of operation; and shall be mounted on recessed outlet box. If indicated as surface mounted, provide manufacturer's surface back box.
  - 1. Single-action mechanism, [breaking-glass or plastic-rod] [pull-lever] type.

## 2.5 SYSTEM SMOKE DETECTORS

- A. Acceptable system manufacturers:
  - 1. Simplex
  - 2. EST
  - 3. Notifier
- B. General Requirements for System Smoke Detectors:
  - 1. Operating at 24-V dc, nominal.
  - 2. Detectors shall be four-wire type.
  - 3. Base Mounting: Detector and associated electronic components shall be mounted in a twist-lock module that connects to a fixed base. Provide terminals in the fixed base for connection to building wiring.
  - 4. Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore them to normal operation.
  - 5. Integral Visual-Indicating Light: LED type, indicating detector has operated.

- C. Duct Smoke Detectors: Photoelectric type complying with UL 268A.
  - 1. Remote indication station.
  - 2. Weatherproof Duct Housing Enclosure: NEMA 250, Type 4X; NRTL listed for use with the supplied detector for smoke detection in HVAC system ducts.
  - 3. Sampling Tubes: Design and dimensions as recommended by manufacturer for specific duct size, air velocity, and installation conditions where applied.
  - 4. Relay Fan Shutdown: Rated to interrupt fan motor-control circuit.

## 2.6 CARBON MONOXIDE DETECTORS

- A. Description: Listed for connection to fire-alarm system.
  - 1. Mounting: Adapter plate for outlet box mounting.
  - 2. Detector shall provide a means to test by introducing test carbon monoxide into the sensing cell.
  - 3. Detector shall provide alarm contacts and trouble contacts.
  - 4. Detector shall send trouble alarm when nearing end-of-life, power supply problems, or internal faults.
  - 5. Detector shall be listed to comply with UL 2075.
  - 6. Detectors shall be located, mounted, and wired according to manufacturer's written instructions.
  - 7. Test button simulates an alarm condition.

## 2.7 NONSYSTEM SMOKE DETECTORS

- A. General Requirements for Nonsystem Smoke Detectors:
  - 1. Nonsystem smoke detectors shall be listed as compatible with the fire-alarm equipment installed or shall have a contact closure interface listed for the connected load.
  - 2. Nonsystem smoke detectors shall meet the monitoring for integrity requirements in NFPA 72.

## 2.8 HEAT DETECTORS

- A. Acceptable system manufacturers:
  - 1. Simplex
  - 2. EST
  - 3. Notifier
- B. General Requirements for Heat Detectors: Comply with UL 521.
- C. Heat Detector, Combination Type: Actuated by either a fixed temperature of 135 deg F (57 deg C) or a rate of rise that exceeds 15 deg F (8 deg C) per minute unless otherwise indicated.
  - 1. Mounting: Twist-lock base interchangeable with smoke-detector bases.
- D. Heat Detector, Fixed-Temperature Type: Actuated by temperature that exceeds a fixed temperature of 190 deg F (88 deg C).
  - 1. Mounting: Twist-lock base interchangeable with smoke-detector bases.

## 2.9 NOTIFICATION APPLIANCES

- A. Acceptable system manufacturers:
  - 1. Simplex
  - 2. EST
  - 3. Notifier
  
- B. General Requirements for Notification Appliances: Connected to notification-appliance signal circuits, zoned as indicated, equipped for mounting as indicated, and with screw terminals for system connections.
  - 1. Combination Devices: Factory-integrated audible and visible devices in a single-mounting assembly, equipped for mounting as indicated, and with screw terminals for system connections.
  
- C. Chimes, High-Level Output: Vibrating type, 81-dBA minimum rated output.
  
- D. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet (3 m) from the horn, using the coded signal prescribed in UL 464 test protocol.
  
- E. Visible Notification Appliances: Xenon strobe lights complying with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- (25-mm-) high letters on the lens.
  - 1. Rated Light Output:
    - a. 15/30/75/110 cd, selectable in the field.
  - 2. Mounting: Wall mounted unless otherwise indicated.
  - 3. For units with guards to prevent physical damage, light output ratings shall be determined with guards in place.
  - 4. Flashing shall be in a temporal pattern, synchronized with other units.
  - 5. Strobe Leads: Factory connected to screw terminals.
  - 6. Mounting Faceplate: Factory finished, red.

## 2.10 SYSTEM PRINTER

- A. Printer shall be listed and labeled as an integral part of fire-alarm system.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas and conditions for compliance with requirements for ventilation, temperature, humidity, and other conditions affecting performance of the Work.
  - 1. Verify that manufacturer's written instructions for environmental conditions have been permanently established in spaces where equipment and wiring are installed, before installation begins.

- B. Examine roughing-in for electrical connections to verify actual locations of connections before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION OF EQUIPMENT

- A. Comply with NFPA 72, NFPA 101, and requirements of authorities having jurisdiction for installation and testing of fire-alarm equipment. Install all electrical wiring to comply with requirements in NFPA 70 including, but not limited to, Article 760, "Fire Alarm Systems."
- B. Install wall-mounted equipment, with tops of cabinets not more than 78 inches (1980 mm) above the finished floor.
  - 1. Comply with requirements for seismic-restraint devices specified in Section 270548.16 "Seismic Controls for Communications Systems."
- C. Manual Fire-Alarm Boxes:
  - 1. Install manual fire-alarm box in the normal path of egress within 60 inches (1520 mm) of the exit doorway.
  - 2. Mount manual fire-alarm box on a background of a contrasting color.
  - 3. The operable part of manual fire-alarm box shall be between 42 inches (1060 mm) and 48 inches (1220 mm) above floor level. All devices shall be mounted at the same height unless otherwise indicated.
- D. Smoke- or Heat-Detector Spacing:
  - 1. Comply with the "Smoke-Sensing Fire Detectors" section in the "Initiating Devices" chapter in NFPA 72, for smoke-detector spacing.
  - 2. Comply with the "Heat-Sensing Fire Detectors" section in the "Initiating Devices" chapter in NFPA 72, for heat-detector spacing.
  - 3. Smooth ceiling spacing shall not exceed 30 feet (9 m).
  - 4. Spacing of detectors for irregular areas, for irregular ceiling construction, and for high ceiling areas shall be determined according to Annex A in NFPA 72.

See Editing Instruction No. 8 in the Evaluations for discussion about placement of smoke detectors for HVAC air inlets and outlets.

- 5. HVAC: Locate detectors not closer than 36 inches (910 mm) from air-supply diffuser or return-air opening.
  - 6. Luminaires: Locate detectors not closer than 12 inches (300 mm) from any part of a luminaire and not directly above pendant mounted or indirect lighting.
- E. Install a cover on each smoke detector that is not placed in service during construction. Cover shall remain in place, except during system testing. Remove cover prior to system turnover.
- F. Duct Smoke Detectors: Comply with NFPA 72 and NFPA 90A. Install sampling tubes so they extend the full width of duct. Tubes more than 36 inches (9100 mm) long shall be supported at both ends.
  - 1. Do not install smoke detector in duct smoke-detector housing during construction. Install detector only during system testing and prior to system turnover.

- G. Audible Alarm-Indicating Devices: Install not less than 6 inches (150 mm) below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille. Install all devices at the same height unless otherwise indicated.
- H. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at least 6 inches (150 mm) below the ceiling. Install all devices at the same height unless otherwise indicated.
- I. Device Location-Indicating Lights: Locate in public space near the device they monitor.

### 3.3 PATHWAYS

- A. Pathways above recessed ceilings and in nonaccessible locations may be routed exposed.
- B. Exposed EMT shall be painted to match ceiling.

### 3.4 GROUNDING

- A. Ground fire-alarm control unit and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to fire-alarm control unit.
- B. Ground shielded cables at the control panel location only. Insulate shield at device location.

### 3.5 FIELD QUALITY CONTROL

- A. Field tests shall be witnessed by authorities having jurisdiction.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
- C. Perform the following tests and inspections[ with the assistance of a factory-authorized service representative]:
  - 1. Visual Inspection: Conduct the visual inspection prior to testing.
    - a. Inspection shall be based on completed record Drawings and system documentation that is required by NFPA 72 in Chapter 10 "Fundamentals," Section 10.18.21 "Completion Documents, Preparation."
    - b. Comply with NFPA 72, Chapter 14, "Inspection, Testing, and Maintenance," Section 14.3, "Inspection" and the "Visual Inspection Frequencies" Table; retain the "Initial/Reacceptance" column and list only the installed components.
  - 2. System Testing: Comply with NFPA 72, Chapter 14, "Inspection, Testing, and Maintenance," Section 14.4 "Testing" and the "Test Methods" Table.
  - 3. Factory-authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" section of the "Fundamentals" chapter in NFPA 72 and the "Inspection and Testing Form" in the "Records" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.
- D. Reacceptance Testing: Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.

- E. Fire-alarm system will be considered defective if it does not pass tests and inspections.
- F. Prepare test and inspection reports.
- G. Maintenance Test and Inspection: Perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.
- H. Annual Test and Inspection: One year after date of Substantial Completion, test fire-alarm system complying with the visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.

### 3.6 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Beginning at Substantial Completion, maintenance service shall include 12 months' full maintenance by skilled employees of manufacturer's designated service organization. Include preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper operation. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.
  - 1. Include visual inspections according to the "Visual Inspection Frequencies" table in the "Testing" paragraph of the "Inspection, Testing and Maintenance" chapter in NFPA 72.
  - 2. Perform tests in the "Test Methods" table in the "Testing" paragraph of the "Inspection, Testing and Maintenance" chapter in NFPA 72.
  - 3. Perform tests listed in the "Testing Frequencies" table in the "Testing" paragraph of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

### 3.7 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain fire-alarm system.

END OF SECTION 284621.13





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**PEORIA PARK DISTRICT  
 GOLF ENTERTAINMENT FACILITY  
 ADDITION AND RENOVATION**  
 7815 N. RADNOR ROAD, PEORIA ILLINOIS 61615  
 DKA PROJECT NO: 22-051

KEY PLAN:

SHEET STATUS: APRIL 9, 2024

**BIDDING AND PERMIT SET**

NO.	DESCRIPTION:	DATE:
3	ADDENDUM 3	04.22.24

SHEET TITLE:  
**FIRST FLOOR - REFLECTED CEILING PLAN**

SHEET NUMBER:

**A2.11**

4/22/2024 2:52:54 PM

**RCP SYMBOLS LEGEND:**

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION AFF
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- WOOD CASSED OPENING
- RECESSED 2x2 FLUORESCENT FIXTURE
- SUSPENDED FLUORESCENT LIGHT LINEAR FIXTURE
- CIRCULAR CHANDELIER
- PENDANT MOUNTED DOME LIGHT FIXTURE
- RECESSED DOWN LIGHT OR SUSPENDED CAN
- LED PERIMETER STRIP LIGHTING
- WALL SCONCE
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- UNIT HEATER - REFER TO MECHANICAL/ ELECTRICAL DRAWINGS
- VESTIBULE HEATER/ AC CEILING MOUNTED UNIT

**RCP GENERAL NOTES:**

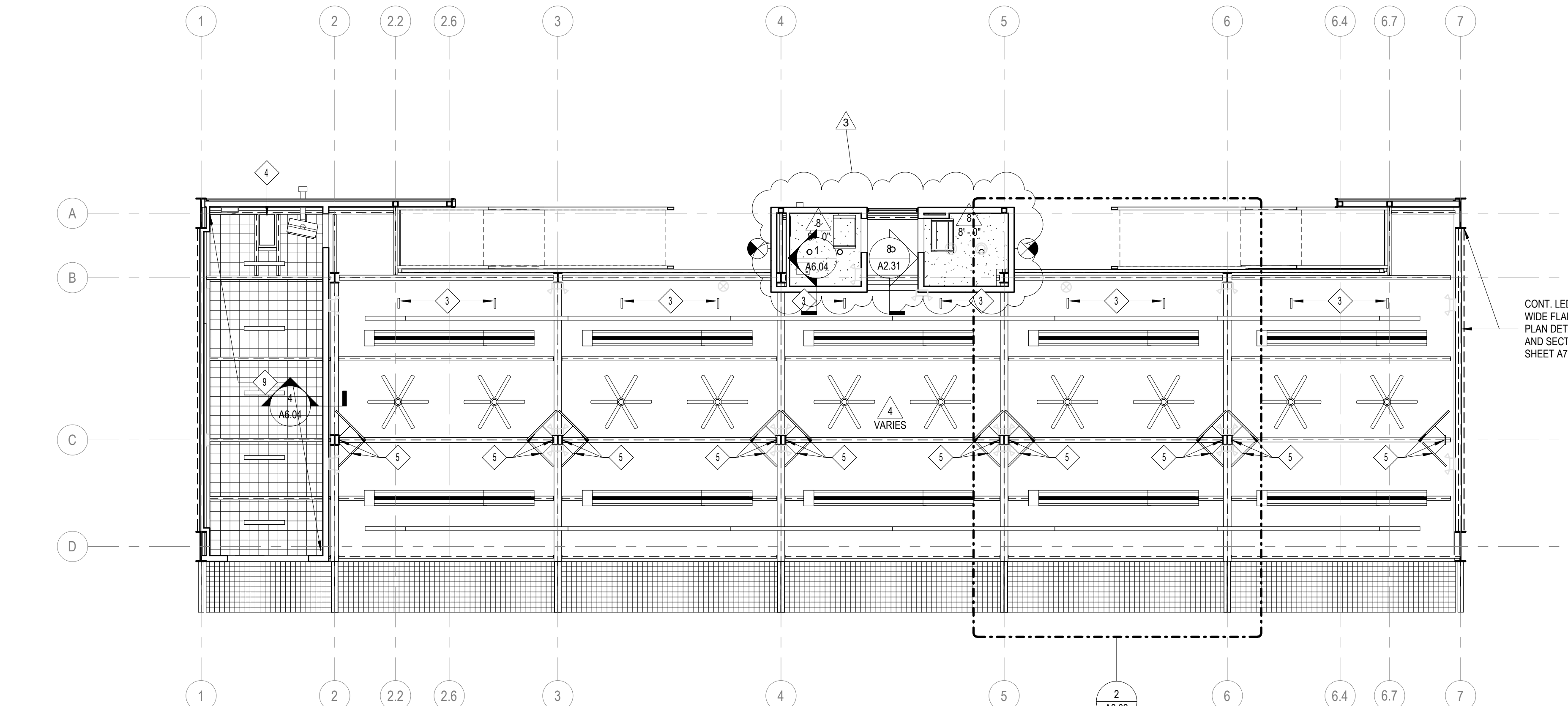
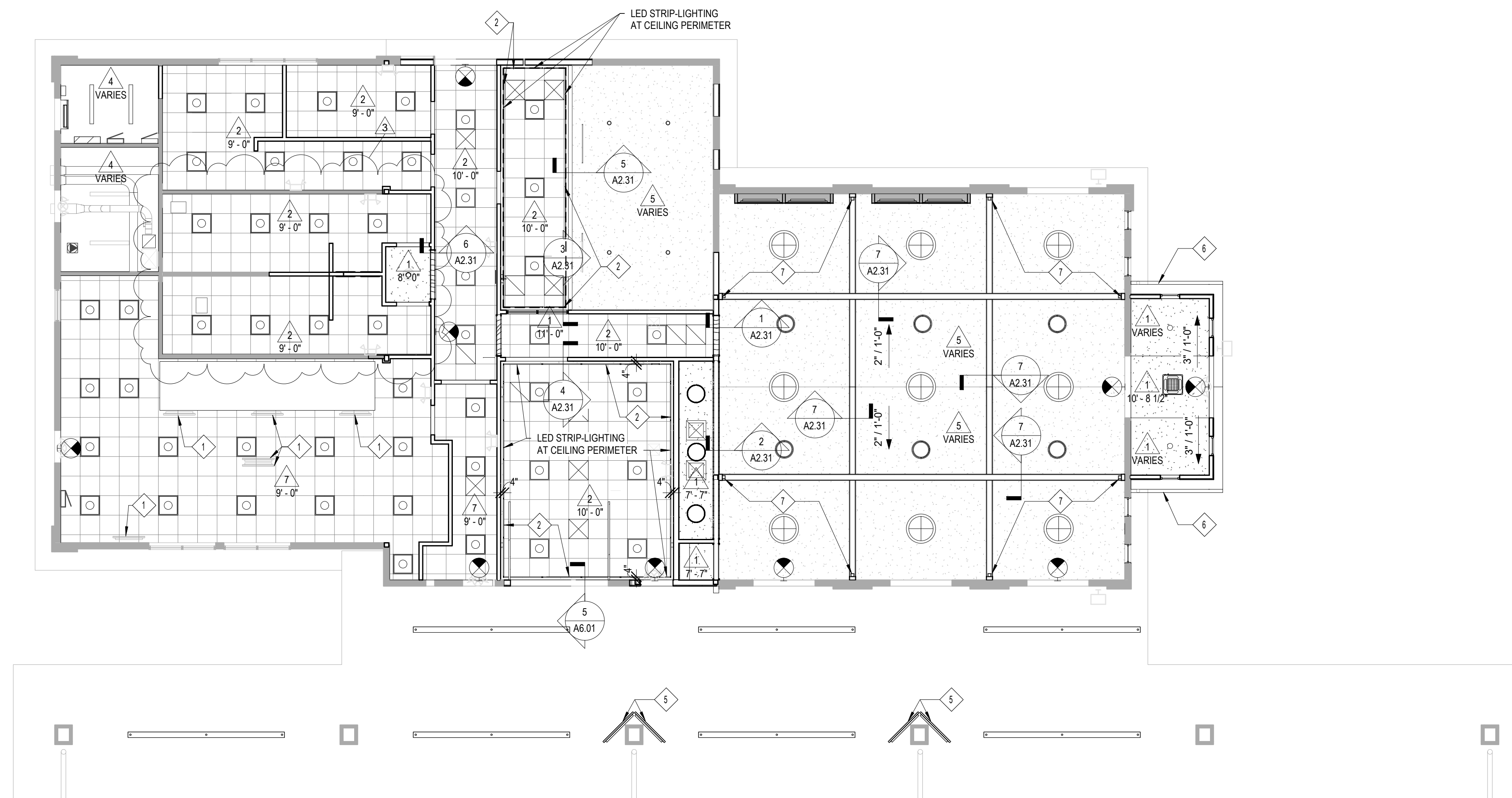
- ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
- IN AREAS THAT DO NOT HAVE ARCHITECTURAL REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
- CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
- CENTER ALL SPRINKLER HEADS IN CEILING TILES.
- ALL GYP. BD. CEILINGS TO BE PAINTED P1-S UNLESS OTHERWISE NOTED ON PLANS.
- EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS TO FINISHED CEILING ABOVE U.N.O.
- EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 4" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.

**RCP REFERENCED NOTES:**

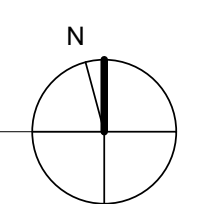
- FOOD SERVICE MONITOR BY OWNER. POWER, DATA DROPS AND CEILING REINFORCEMENT BY CONTRACTOR. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.
- HOLD EDGE OF GRID CEILING 4" AWAY FROM ADJACENT GYPSUM BOARD; REFER TO CEILING PLAN DETAILS SHEET A2.31
- SUSPENDED BAY SIGNAGE BY OWNER. CONTRACTOR TO COORDINATE POWER AND OR DATA AND LOW VOLTAGE LOCATION WITH OWNERS VENDOR
- FLOOR OPENING FOR BALL ELEVATOR. REFER TO STRUCTURAL AND VERIFY OPENING SIZE AND LOCATION WITH OWNERS VENDOR
- OWNER PROVIDED TVS AND CONTROL MONITORS. PROVIDE MOUNT PLATE AND ANCHORING TO COLUMNS AS REQUIRED. COORDINATE LOCATION, HEIGHTS, BOLT LOCATIONS AND SIZE WITH OWNERS VENDOR. REFER TO SECTIONS AND ELEVATIONS FOR APPROXIMATE LOCATIONS OF AV COMPONENTS
- NEW PREFINISHED ALUMINUM GUTTER AND DOWNSPOUT ASSEMBLY. PROVIDE 5'-0" HIGH PAINTED STEEL PIPE SLEEVE AT BASE. COORDINATE WITH STORM LINE CONNECTION
- WALL SCONCE

**CEILING TYPES:**

TYPE	DESCRIPTION
1	PAINTED GYP BOARD ON METAL FRAMING
2	2X2 ACOUSTICAL PANEL SYSTEM
3	POPULAR CASSED OPENING (REFER TO CEILING DETAILS)
4	PAINTED EXPOSED STRUCTURE (CONDUITS AND HVAC PAINTED TO MATCH)
5	EXISTING GYPSUM BOARD CEILING - PAINT P1-S
6	1 1/2" PROTECTIVE FOAM PADDING OVER 1/2" GYPSUM BOARD AND WOOD FRAMING
7	2X2 ACOUSTICAL PANEL SYSTEM - SMOOTH VINYL WASHABLE TILE
8	MOISTURE RESISTANT PAINTED GYPBOARD ON METAL FRAMING
9	6" ISO FOAM ATTACHED TO UNDERSIDE OF DECK; PAINT EXPOSED INS. AND STRUCT.



**1 FIRST FLOOR - REFLECTED CEILING PLAN**  
 1/8" = 1'-0"





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**PEORIA PARK DISTRICT  
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 7815 N. RADNOR ROAD, PEORIA ILLINOIS 61615  
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**RCP SYMBOLS LEGEND:**

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

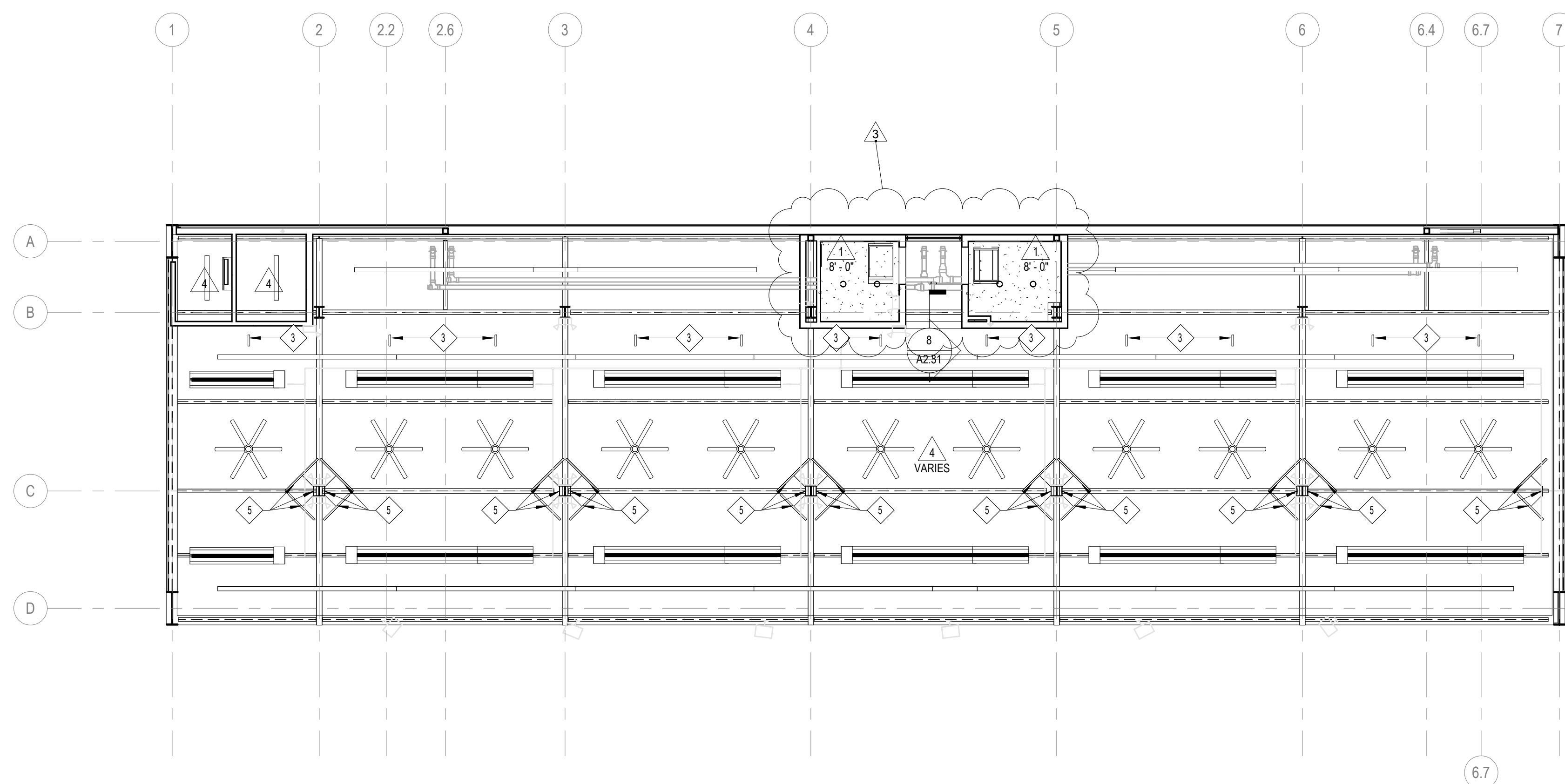
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**RCP GENERAL NOTES:**

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3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED PT-5 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS TO FINISHED CEILING ABOVE U.N.O.
7. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 4" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.

**RCP REFERENCED NOTES:**

1. FOOD SERVICE MONITOR BY OWNER. POWER, DATA DROPS AND CEILING REINFORCEMENT BY CONTRACTOR. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION
2. HOLD EDGE OF GRID CEILING 4" AWAY FROM ADJACENT GYPSUM BOARD; REFER TO CEILING PLAN DETAILS SHEET A2.31
3. SUSPENDED BAY SIGNAGE BY OWNER. CONTRACTOR TO COORDINATE POWER AND OR DATA AND LOW VOLTAGE LOCATION WITH OWNERS VENDOR
4. FLOOR OPENING FOR BALL ELEVATOR. REFER TO STRUCTURAL AND VERIFY OPENING SIZE AND LOCATION WITH OWNERS VENDOR
5. OWNER PROVIDED TVS AND CONTROL MONITORS. PROVIDE MOUNT PLATE AND ANCHORING TO COLUMNS AS REQUIRED. COORDINATE LOCATION, HEIGHTS, BOLT LOCATIONS AND SIZE WITH OWNERS VENDOR. REFER TO SECTIONS AND ELEVATIONS FOR APPROXIMATE LOCATIONS OF AV COMPONENTS
6. NEW PREFINISHED ALUMINUM GUTTER AND DOWNSPOUT ASSEMBLY. PROVIDE 5'-0" HIGH PAINTED STEEL PIPE SLEEVE AT BASE. COORDINATE WITH STORM LINE CONNECTION
7. WALL SCONCE



1 SECOND FLOOR - REFLECTED CEILING PLAN  
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: APRIL 9, 2024  
**BIDDING AND PERMIT SET**

NO.	DESCRIPTION:	DATE:
3	ADDENDUM 3	04.22.24

SHEET TITLE:  
**SECOND FLOOR - REFLECTED CEILING PLAN**

SHEET NUMBER:  
**A2.21**



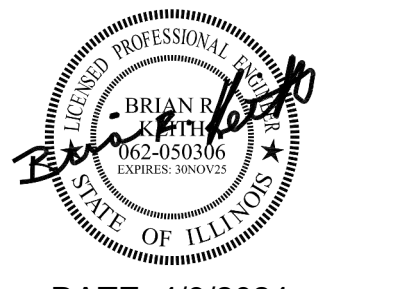
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**PEORIA PARK DISTRICT  
 GOLF PRACTICE FACILITY ADDITION**  
 7815 N. RADNOR ROAD, PEORIA ILLINOIS 61615  
 DKA PROJECT NO: 22-051



DATE: 4/9/2024

KEY PLAN:

SHEET STATUS: APRIL 9, 2024

**BIDDING AND PERMIT SET**

NO.	DESCRIPTION:	DATE:
2	ADD #3	04/22/24

SHEET TITLE:

**FIRST FLOOR PLAN -  
 RANGE BAYS -  
 LIGHTING**

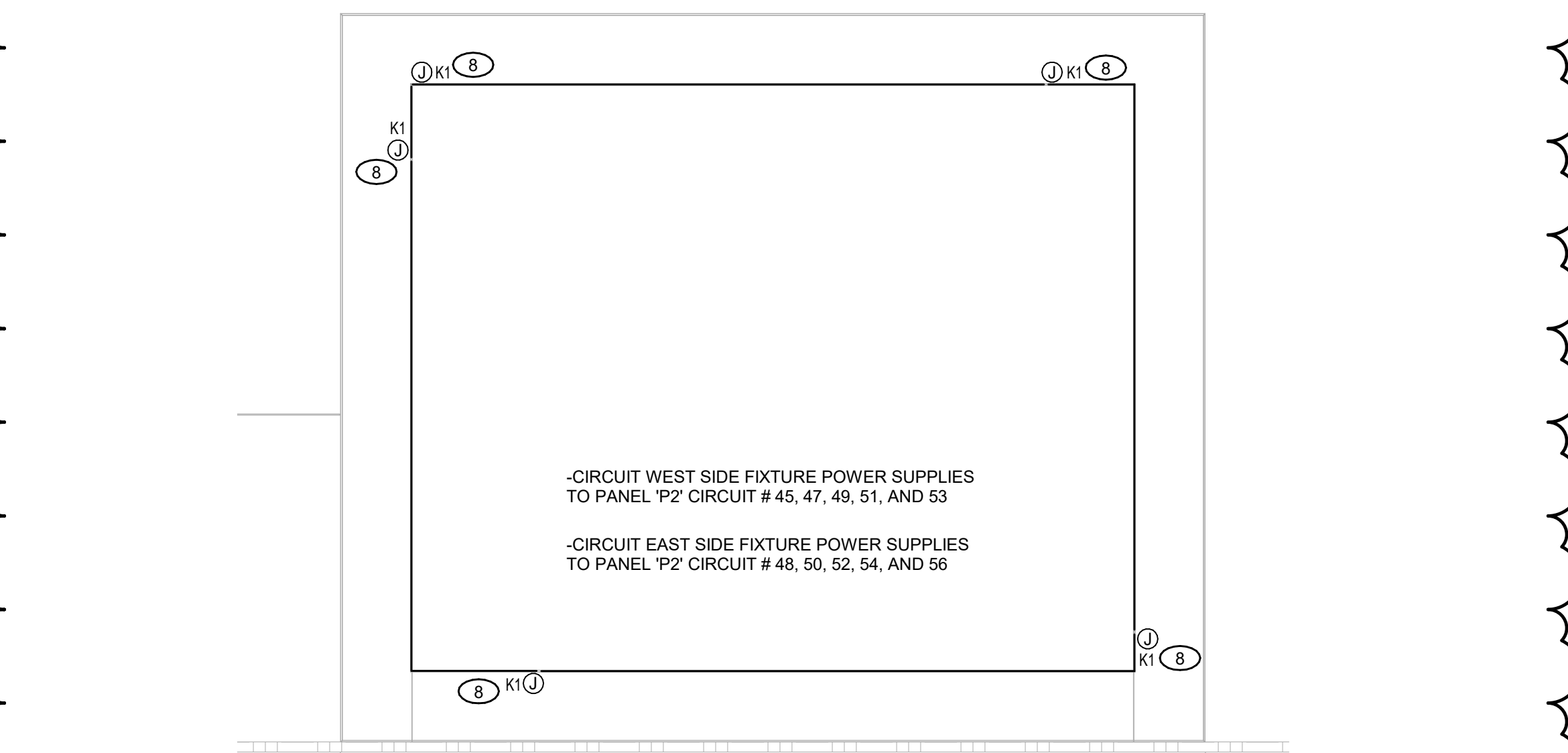
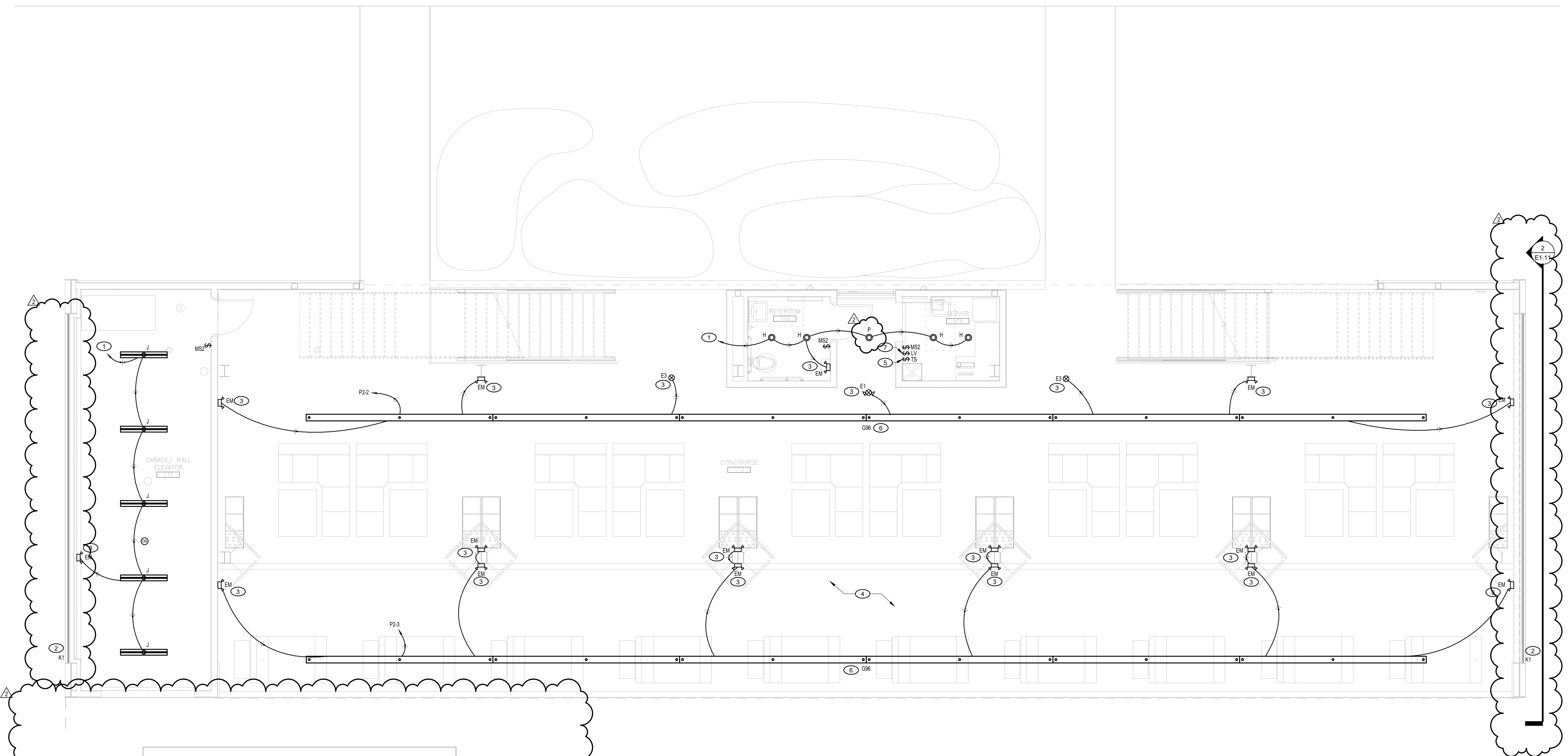
SHEET NUMBER:

**E1.11**

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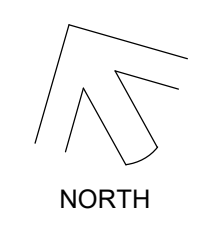
**KEYED ELECTRICAL NOTES (THIS SHEET):**

1. CIRCUIT CONTINUES TO NEXT FLOOR FIXTURES. SEE KEYED NOTE ON SHEET E1.21 FOR CONTINUATION OF CIRCUIT.
2. FURNISH AND INSTALL LED TAPE LIGHT IN CHANNEL ALONG WIDE-FLANGED FRAMED OPENINGS OF EXTERIOR WALLS ON SIDES OF BUILDING AS SHOWN IN DETAIL 2 ON THIS SHEET. REFER TO ARCHITECTURAL DETAILS FOR COORDINATION OF LED CHANNEL INSTALLATION.
3. ROUTE 24" AND 1 1/2" END IN CONDUIT, CONNECT TO AN UNSWITCHED PORTION OF LIGHTING CIRCUIT.
4. COORDINATE ALL LUMINAIRE MOUNTING HEIGHTS IN CONCOURSE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
5. TOUCHSCREEN CONTROL PANEL FOR CONCOURSE LIGHTING. EACH LIGHTING CIRCUIT ON CONCOURSE SHALL BE CONTROLLED BY SEPARATE SWITCH.
6. LINEAR CONCOURSE LIGHT FIXTURE SHALL BE ONE CONTINUOUS FIXTURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
7. FURNISH AND INSTALL LOW VOLTAGE TRACKING SWITCH FOR MOUNTING OVERSIDE OF CONCOURSE RANGE TRACKING SYSTEM LIGHTING. SEE SHEET E1.30 FOR ADDITIONAL INFORMATION.
8. EACH JUNCTION BOX SHOWN REPRESENTS A 24V POWER SUPPLY REQUIRED FOR LED TAPE LIGHT DRIVER POWER. EACH DRIVER WILL REQUIRE SEPARATE 120V CIRCUIT FED FROM PANEL 'P2' AS DESCRIBED IN THIS DETAIL.



**2 OVERALL RANGE BAY - LED STRIP INSTALLATION DETAIL - TYPICAL EACH SIDE**  
 SCALE: 3/16" = 1'-0"

**1 FIRST FLOOR PLAN - RANGE BAYS - LIGHTING**  
 SCALE: 1/4" = 1'-0"



**NOTE:**  
 THE ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL MOUNTING HEIGHTS FOR ALL PENDANT FIXTURES AND WALL SCONCES WITH ARCHITECT PRIOR TO ORDERING FIXTURES.

**NOTE:**  
 ALL EMERGENCY AND EXIT LUMINAIRES SHALL BE CONNECTED TO AN UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT.

**NOTE:**  
 ALL LIGHTING CONTROL POWER PACKS SHALL BE BLACK AND INSTALLED ABOVE AN ACCESSIBLE CEILING WHERE POSSIBLE.

**NOTE:**  
 ALL LUMINAIRES CONTROLLED THROUGH A 0-10 VDC DIMMER SHALL INCLUDE TWO ADDITIONAL SHIELDED CONDUCTORS TO EACH DRIVER FOR DIMMING CONTROL.

-CIRCUIT WEST SIDE FIXTURE POWER SUPPLIES TO PANEL 'P2' CIRCUIT # 45, 47, 49, 51, AND 53  
 -CIRCUIT EAST SIDE FIXTURE POWER SUPPLIES TO PANEL 'P2' CIRCUIT # 48, 50, 52, 54, AND 56



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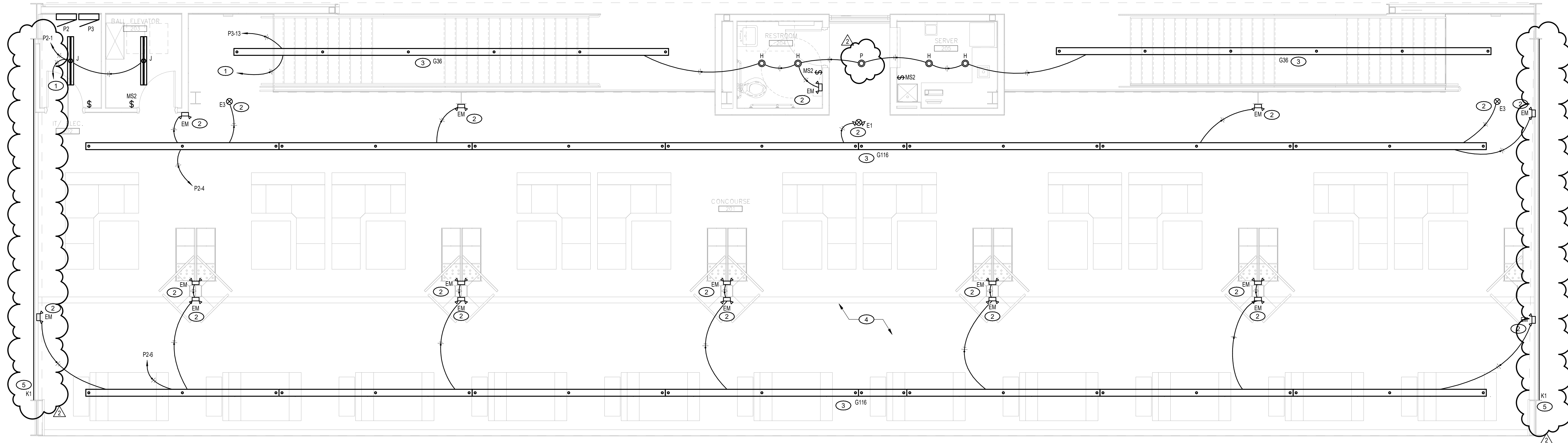
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**KEYED ELECTRICAL NOTES (THIS SHEET):**

- ① CIRCUIT CONTINUED ON FIRST FLOOR. SEE KEYED NOTE 1 ON SHEET E1.11 FOR CONTINUATION OF CIRCUIT AND CIRCUIT IDENTIFICATION.
- ② ROUTE 2#12 & 1#12 GND IN CONDUIT. CONNECT TO AN UNSWITCHED PORTION OF LIGHTING CIRCUIT.
- ③ LINEAR CONCOURSE LIGHT FIXTURE SHALL BE ONE CONTINUOUS FIXTURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
- ④ COORDINATE ALL LUMINAIRE MOUNTING HEIGHTS IN CONCOURSE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- ⑤ FURNISH AND INSTALL LED TAPE LIGHT IN CHANNEL ALONG WIDE-FLANGED FRAMED OPENINGS OF EXTERIOR WALLS ON SIDES OF BUILDING AS SHOWN IN DETAIL 2 ON SHEET E1.11. REFER TO ARCHITECTURAL DETAILS FOR COORDINATION OF LED STRIP INSTALLATION.



① **SECOND FLOOR PLAN - RANGE BAYS - LIGHTING**  
 SCALE: 1/4" = 1'-0"



**PEORIA PARK DISTRICT  
 GOLF PRACTICE FACILITY ADDITION**  
 7815 N. RADNOR ROAD, PEORIA ILLINOIS 61615  
 DKA PROJECT NO: 22-051



DATE: 4/9/2024

KEY PLAN:

SHEET STATUS: APRIL 9, 2024  
**BIDDING AND PERMIT SET**

NO.	DESCRIPTION:	DATE:
2	ADD #3	04/22/24

SHEET TITLE:  
**SECOND FLOOR PLAN  
 - RANGE BAYS -  
 LIGHTING**

SHEET NUMBER:

**E1.21**

**NOTE:**  
 THE ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL MOUNTING HEIGHTS FOR ALL PENDANT FIXTURES AND WALL SCONCES WITH ARCHITECT PRIOR TO ORDERING FIXTURES.

**NOTE:**  
 ALL EMERGENCY AND EXIT LUMINAIRES SHALL BE CONNECTED TO AN UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT.

**NOTE:**  
 ALL LIGHTING CONTROL POWER PACKS SHALL BE BLACK AND INSTALLED ABOVE AN ACCESSIBLE CEILING WHERE POSSIBLE.

**NOTE:**  
 ALL LUMINAIRES CONTROLLED THROUGH A 0-10 VDC DIMMER SHALL INCLUDE TWO ADDITIONAL SHIELDED CONDUCTORS TO EACH DRIVER FOR DIMMING CONTROL.

**EXISTING BRANCH PANEL TO BE DEMOLISHED (FOR REFERENCE ONLY)**

**Branch Panel: (E)P-1**  
 Location: MECHANICAL 111  
 Supply From: (E)MP-1  
 Mounting: SURFACE  
 Enclosure: NEMA 1

Volts: 120/240 Single  
 Phases: 1  
 Wires: 3

A.I.C. Rating: 10,000 AMPS SYMMETRICAL  
 Mains Type: MAIN CB  
 Mains Rating: 200 A  
 MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT
1	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	UNKNOWN LOAD	2
3	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	UNKNOWN LOAD	4
5	LIGHTS IN LOBBY	20 A	1	0 VA	0 VA	1	20 A	UNKNOWN LOAD	6
7	LIGHTS IN LOBBY	20 A	1	0 VA	0 VA	1	20 A	UNKNOWN LOAD	8
9	EXIT LIGHTS	20 A	1	0 VA	0 VA	1	20 A	UNKNOWN LOAD	10
11	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	FIRE SPRINKLER/RAIR COMP	12
13	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	UPRIGHT FREEZER/KITCHEN DOOR	14
15	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	4X4 KITCHEN OUTLETS	16
17	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	UNKNOWN LOAD	18
19	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	POWER STRIP N OUTSIDE WALL	20
21	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	UNKNOWN LOAD	22
23	UNKNOWN LOAD	20 A	1	0 VA	0 VA	1	20 A	UNKNOWN LOAD	24
25	UNKNOWN LOAD	20 A	1	0 VA	0 VA	2	40 A	AC COND UNIT	26
27	UNKNOWN LOAD	20 A	1	0 VA	0 VA	2	40 A	AC COND UNIT	28
29	ICE MACHINE	20 A	1	0 VA	0 VA	2	60 A	AC COND UNIT	30
31	COOLER FANS	20 A	1	0 VA	0 VA	2	60 A	AC COND UNIT	32
33	UNKNOWN LOAD	20 A	1	0 VA	0 VA	2	60 A	AC COND UNIT	34
35	UNKNOWN LOAD	20 A	1	0 VA	0 VA	2	15 A	COOLER COND UNIT	36
37	UNKNOWN LOAD	20 A	1	0 VA	0 VA	2	15 A	COOLER COND UNIT	38
39	UNKNOWN LOAD	20 A	1	0 VA	0 VA	2	15 A	COOLER COND UNIT	40
Total Load:		0 VA		0 VA					
Total Amps:		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment				
KITCHEN EQUIP				
Other				
Power				
LITES				
RCPT				
MTR				
Total Conn. Load:		0 VA		
Total Est. Demand:		0 VA		
Total Conn.:		0 A		
Total Est. Demand:		0 A		

Notes:

**NEW BRANCH PANEL**

**Branch Panel: K**  
 Location: KITCHEN 108  
 Supply From: MDP  
 Mounting: Surface  
 Enclosure: Type 1

Volts: 120/208 Wye  
 Phases: 3  
 Wires: 4

A.I.C. Rating: 10,000 AMPS SYMMETRICAL  
 Mains Type: MCB  
 Mains Rating: 400 A  
 MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	KITCHEN LTG	20 A	1	678... 900...	180...	0 VA	1	20 A	KITCHEN EQUIP	2
3	FIRE PROT. SYSTEM(HOOD)	20 A	1	180...	0 VA	180...	1	20 A	HOOD SHUNT TRIP	4
5	HOOD LTS	20 A	1	0 VA	180...	0 VA	1	20 A	FRIDGE (UNDER HOOD)	6
7	GAS SOLENOID	20 A	1	600... 180...	180...	180...	1	20 A	RCPT	8
9	FRIDGE (UNDER HOOD)	20 A	1	180...	180...	180...	1	20 A	FRIDGE (UNDER HOOD)	10
11	FRYER (UNDER HOOD)	20 A	1	180...	180...	180...	1	20 A	FRYER (UNDER HOOD)	12
13	FRYER (UNDER HOOD)	20 A	1	180... 180...	180...	180...	1	20 A	FRYER (UNDER HOOD)	14
15	FREEZER	20 A	1	180... 395...	180...	180...	2	50 A	SMOKER SPEC RECPT	16
17	KITCHEN RECPT	20 A	1	180... 395...	180...	180...	1	20 A	SMOKER SPEC RECPT	18
19	KITCHEN EQUIP	30 A	3	235... 360...	235...	180...	1	20 A	KITCHEN RECPTS	20
21	---	---	---	235... 180...	235...	180...	1	20 A	PIZZA PREP FRIDGE	22
23	---	---	---	235... 180...	235...	180...	1	20 A	FRIDGE UNDER OVEN	24
25	TELE/POWER POLE RECPTS	20 A	1	180... 180...	180...	180...	1	20 A	TELE/POWER POLE RECPTS	26
27	DW-1	70 A	3	588... 721...	588...	721...	3	20 A	DISP-1	28
29	---	---	---	588... 721...	588...	721...	3	20 A	DISP-1	30
31	---	---	---	588... 721...	588...	721...	3	20 A	DISP-1	32
33	KITCHEN RECPTS	20 A	1	588... 721...	720... 180...	0 VA	1	20 A	FREEZER	34
35	HOT WELL	20 A	1	0 VA	180...	0 VA	1	20 A	FRIDGE	36
37	PREP FRIDGE	20 A	1	180... 180...	0 VA	117...	1	20 A	PREP FRIDGE	38
39	HT-1	20 A	1	0 VA	117...	117... 236...	3	30 A	FREEZER LTS/DOOR HEATER	40
41	COOLER LIGHTS/DOOR HEATER	20 A	1	117... 236...	117... 236...	117... 236...	3	30 A	FREEZER CONDENSER	42
43	FREEZER EVAPORATOR	20 A	2	520... 236...	520...	236...	3	20 A	COOLER CONDENSER	44
45	---	---	---	520... 236...	520...	236...	3	20 A	COOLER CONDENSER	46
47	COOLER EVAPORATOR	20 A	2	520... 180...	520...	180...	3	20 A	COOLER CONDENSER	48
49	---	---	---	520... 180...	520...	180...	3	20 A	COOLER CONDENSER	50
51	TVS	20 A	1	0 VA	180...	0 VA	1	20 A	EF-KH-2	52
53	EF-KH-1	20 A	3	901... 901...	901... 901...	901... 901...	3	20 A	EF-KH-2	54
55	---	---	---	901... 901...	901... 901...	901... 901...	3	20 A	EF-KH-2	56
57	---	---	---	901... 901...	901... 901...	901... 901...	3	20 A	EF-KH-2	58
59	ICE MAKER	20 A	2	166... 0 VA	166... 0 VA	166... 0 VA	1	20 A	Spare	60
61	---	---	---	166... 0 VA	166... 0 VA	166... 0 VA	1	20 A	Spare	62
63	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	64
65	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	66
67	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	68
69	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	70
71	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	72
Total Load:		21305 VA		23899 VA		23228 VA				
Total Amps:		178 A		202 A		196 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment				
KITCHEN EQUIP	58143 VA	65.00%	37793 VA	Total Conn. Load: 68431 VA
Other	0 VA	0.00%	0 VA	Total Est. Demand: 48911 VA
Power	0 VA	0.00%	0 VA	Total Conn.: 190 A
LITES	676 VA	125.00%	848 VA	Total Est. Demand: 136 A
RCPT	4320 VA	100.00%	4320 VA	
MTR	5404 VA	112.50%	6079 VA	

Notes:

**NEW BRANCH PANEL**

**Branch Panel: P1**  
 Location: ITE/ELECTRICAL 110  
 Supply From: MDP  
 Mounting: SURFACE  
 Enclosure: Type 1

Volts: 120/208 Wye  
 Phases: 3  
 Wires: 4

A.I.C. Rating: 14,000  
 Mains Type: MCB  
 Mains Rating: 400 A  
 MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	MECH/ELECTRICAL/BATHROOM LTG	20 A	1	110... 710...	708... 600...	600... 158...	1	20 A	CORRIDOR/PRIVATE RM LTG	2
3	RESTAURANT LTG	20 A	1	600... 158...	600... 158...	600... 158...	1	20 A	PRIVATE DINING LED TAPE LTG	4
5	SIM ROOM LED TAPE LTG	20 A	1	600... 158...	600... 158...	600... 158...	1	20 A	PATIO LTG	6
7	PARKING LOT LTG	20 A	1	924... 400...	924... 400...	924... 400...	1	20 A	PRACTICE GREEN LTG	8
9	LC-1	20 A	1	120... 144...	120... 144...	120... 144...	1	20 A	FACP	10
11	WH/RCPT	20 A	1	540... 360...	540... 360...	540... 360...	1	20 A	MDF	12
13	MDF	20 A	1	180... 360...	180... 360...	180... 360...	1	20 A	WS-1/MECH RECPT	14
15	EUH-1	20 A	2	145... 208...	145... 208...	145... 208...	2	30 A	EUH-2	16
17	---	---	---	145... 208...	145... 208...	145... 208...	2	30 A	EUH-2	18
19	EUH-3	30 A	2	208... 208...	208... 208...	208... 208...	2	30 A	EUH-4	20
21	---	---	---	208... 208...	208... 208...	208... 208...	2	30 A	EUH-4	22
23	AC-1	20 A	2	104... 187...	104... 187...	104... 187...	2	30 A	ACCU-1	24
25	---	---	---	104... 187...	104... 187...	104... 187...	2	30 A	ACCU-1	26
27	AC-2	20 A	2	56 VA 176...	56 VA 176...	56 VA 176...	2	30 A	ACCU-2	28
29	---	---	---	56 VA 176...	56 VA 176...	56 VA 176...	2	30 A	ACCU-2	30
31	SCP	20 A	1	144... 360...	144... 360...	144... 360...	1	20 A	ITE/ELEC 110 RECPTS	32
33	AV RACK RECPTS	20 A	1	720... 540...	720... 540...	720... 540...	1	20 A	EXTERIOR PATIO RECPTS	34
35	RTU/MAU MAINT. RECPTS	20 A	1	540... 900...	540... 900...	540... 900...	1	20 A	CORR 104/RESTROOM RECPTS	36
37	OPEN OFFICE 109 RECPTS	20 A	1	180... 720...	180... 720...	180... 720...	1	20 A	OPEN OFFICE 109 RECPTS	38
39	OPEN OFFICE 109 FRIDGE	20 A	1	180... 720...	180... 720...	180... 720...	1	20 A	STORAGE/OFFICE 105 RECPTS	40
41	PRIVATE EVENT/SIM 102 LEFT	20 A	1	540... 540...	540... 540...	540... 540...	1	20 A	PRIVATE EVENT/SIM 102 RIGHT	42
43	PRIVATE DINING 103	20 A	1	108... 720...	108... 720...	108... 720...	1	20 A	PATIO COLUMN TV RECPTS	44
45	RECEPTION P.O.S./VESTIBULE...	20 A	1	130... 360...	130... 360...	130... 360...	1	20 A	BAR P.O.S. MACHINES	46
47	USB BAR RECPTS - LEFT	20 A	1	540... 540...	540... 540...	540... 540...	1	20 A	USB BAR RECPTS - RIGHT	48
49	BAR BACK TV RECPTS	20 A	1	720... 900...	720... 900...	720... 900...	1	20 A	BAR BACK GEN RECPTS	50
51	BAR BACK FRIDGE	20 A	1	336... 336...	336... 336...	336... 336...	1	20 A	BAR BACK FRIDGE	52
53	UNDER BAR COUNTER RECPTS	20 A	1	540... 144...	540... 144...	540... 144...	1	20 A	BAG-N-BOX-1	54
55	SPEED BAR	20 A	1	180... 0 VA	180... 0 VA	180... 0 VA	1	20 A	SHELF LIGHTING	56
57	DW-2	80 A	2	594... 180...	594... 180...	594... 180...	2	40 A	ACCU-1X	58
59	---	---	---	594... 180...	594... 180...	594... 180...	2	40 A	ACCU-1X	60
61	F-1X	20 A	2	124... 270...	124... 270...	124... 270...	2	40 A	ACCU-1X	62
63	---	---	---	124... 270...	124... 270...	124... 270...	2	40 A	ACCU-1X	64
65	SIGNAGE	20 A	1	0 VA	144... 0 VA	144... 0 VA	1	20 A	FAA	66
67	BALL DISP	20 A	1	24 VA	0 VA	24 VA	3	200 A	TVSS	68
69	LITES	20 A	1	36 VA	0 VA	36 VA	1	20 A	TVSS	70
71	EQUIP AREA LIGHT	20 A	1	200... 0 VA	200... 0 VA	200... 0 VA	1	20 A	Spare	72
73	---	---	---	200... 0 VA	200... 0 VA	200... 0 VA	1	20 A	Spare	74
75	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	76
77	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	78
79	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	80
81	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	82
83	Spare	20 A	1	0 VA	0 VA	0 VA	1	20 A	Spare	84
Total Load:		20106 VA		25240 VA		26053 VA				
Total Amps:		168 A		217 A		224 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	4080 VA	100.00%	4080 VA	Total Conn. Load: 71384 VA
HVAC	13008 VA	100.00%	13008 VA	Total Est. Demand: 67677 VA
Heating	17888 VA	100.00%	17888 VA	Total Conn.: 198 A
KITCHEN EQUIP	12560 VA	90.00%	11304 VA	Total Est. Demand: 194 A
Lighting	108 VA	125.00%	135 VA	
Other	360 VA	100.00%	360 VA	
LITES	6045 VA	125.00%	7556 VA	
RCPT	14440 VA	84.83%	12220 VA	
MTR	3420 VA	110.53%	3790 VA	

Notes:

**NEW BRANCH PANEL**

**Branch Panel: P2**  
 Location: IT/ ELEC 202  
 Supply From: MDP  
 Mounting: Surface  
 Enclosure: Type 1

Volts: 120/208 Wye  
 Phases: 3  
 Wires: 4

A.I.C. Rating: 10,000 AMPS SYMMETRICAL  
 Mains Type: MCB  
 Mains Rating: 400 A  
 MCB Rating: 400 A

Notes:

FURNISH INSTALLED 120KA TVSS

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	GARAGE/BALL ELEV.ITE/ELEC LTG	20 A	1	306... 367...	367... 430...	367... 430...	1	40 A	IF LINER BAY LTG REAR	2
3	IF LINER BAY LTG FRONT	40 A	1	367... 430...	367... 430...	367... 430...	1	50 A	2F LINER BAY LTG REAR	4



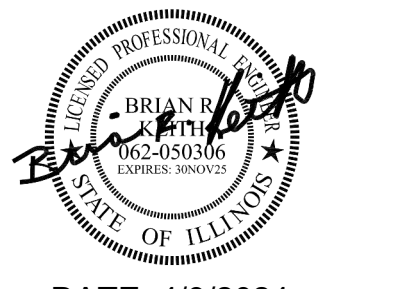
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**PEORIA PARK DISTRICT**  
**GOLF PRACTICE FACILITY ADDITION**  
 7815 N. RADNOR ROAD, PEORIA ILLINOIS 61615  
 DKA PROJECT NO: 22-051



DATE: 4/9/2024

KEY PLAN:

SHEET STATUS: APRIL 9, 2024  
**BIDDING AND PERMIT SET**

NO.	DESCRIPTION:	DATE:
2	ADD #3	04/22/24

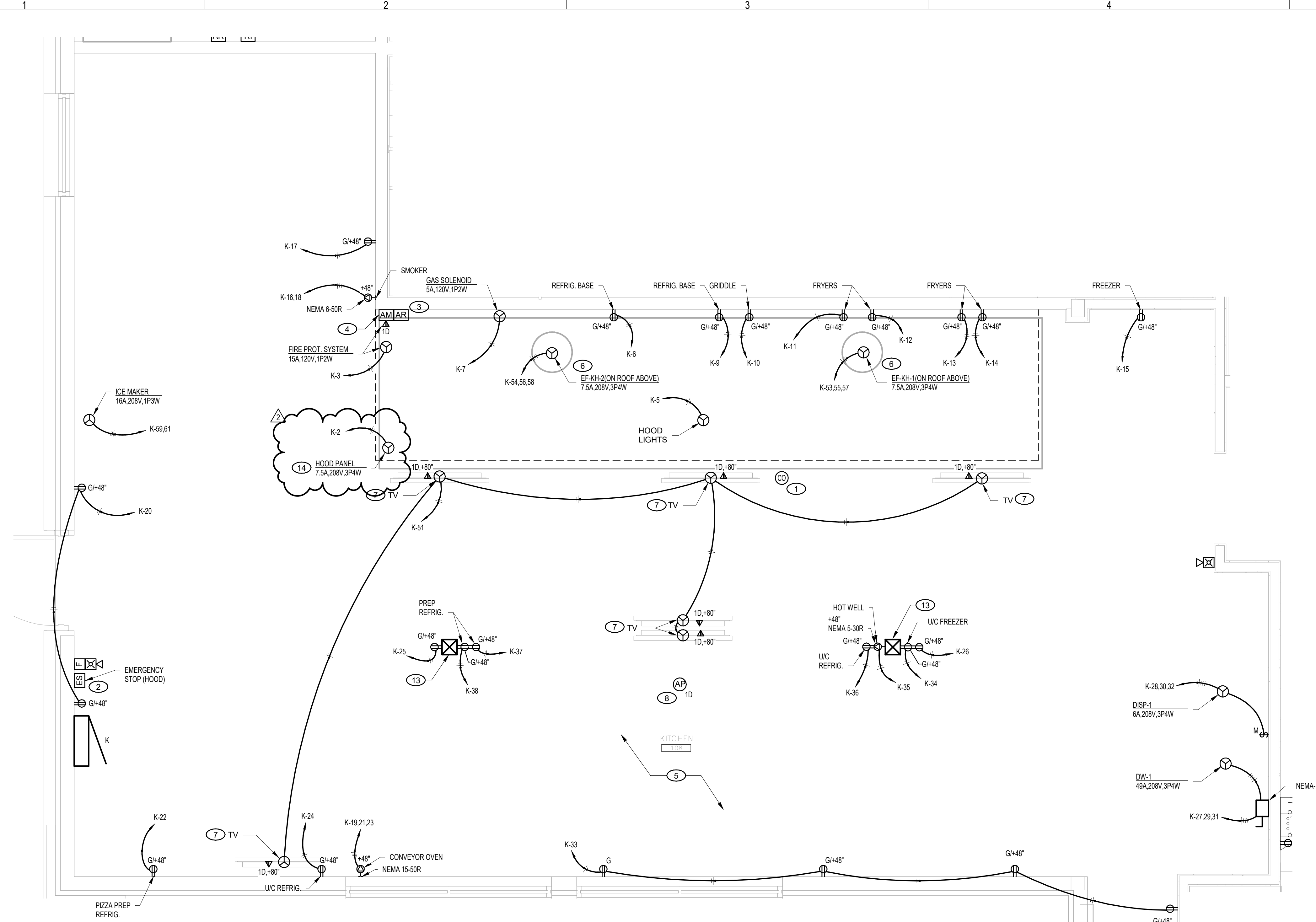
SHEET TITLE:  
**ENLARGED FLOOR PLANS - POWER & SYSTEMS**

SHEET NUMBER:

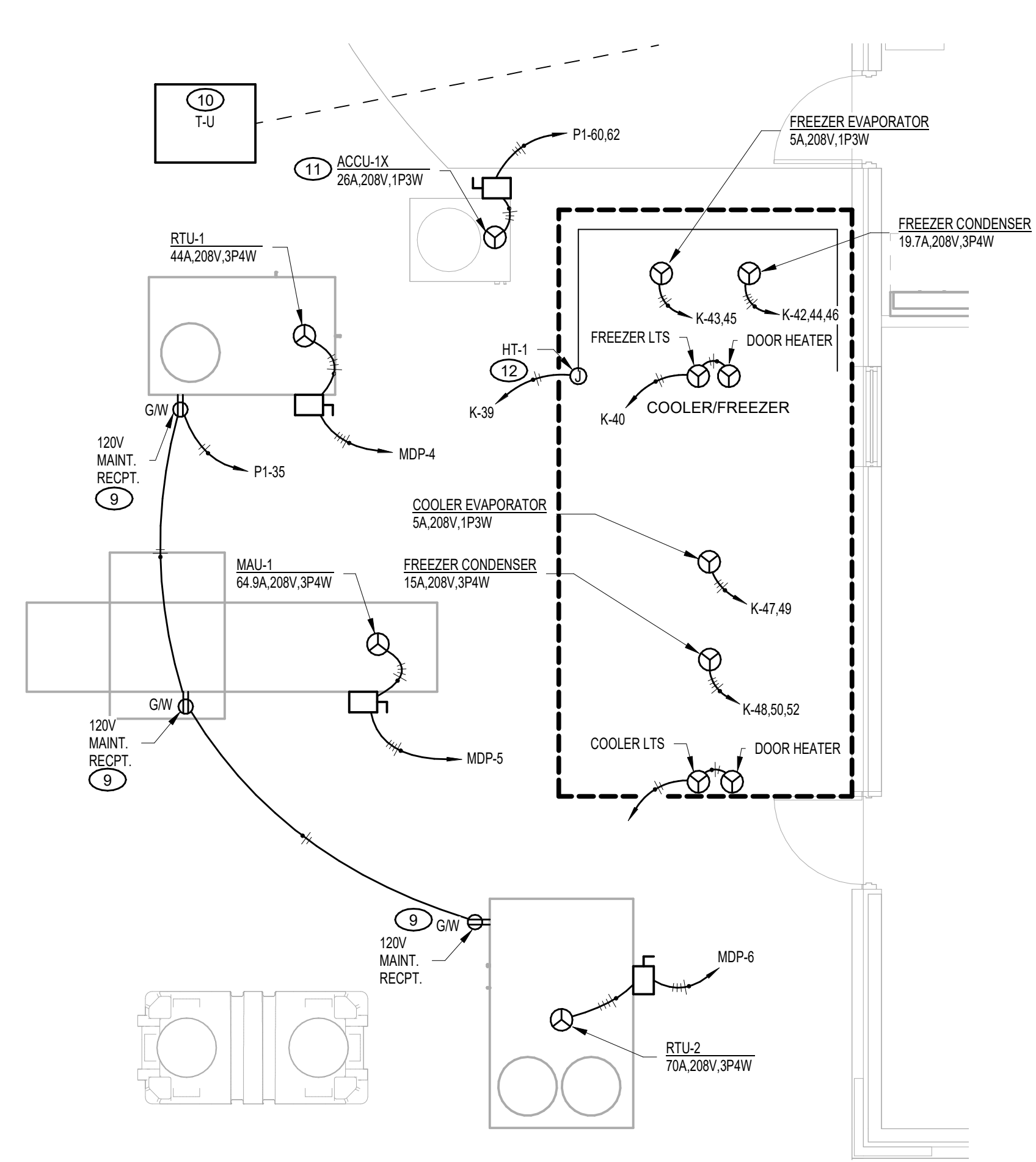
**E3.0**

**KEYED ELECTRICAL NOTES (THIS SHEET):**

- 1 FURNISH AND INSTALL CARBON MONOXIDE DETECTOR WITHIN 15' OF GAS-FIRED EQUIPMENT.
- 2 REMOTE ACTUATOR FOR HOOD TO BE INSTALLED BY KITCHEN EQUIPMENT MANUFACTURER. E.C. SHALL PROVIDE FINAL CONNECTIONS BACK TO HOOD CONTROL PANEL.
- 3 FURNISH AND INSTALL FIRE ALARM RELAY FOR SHUTDOWN OF GAS SOLENOID VALVE SERVING GAS FIRED EQUIPMENT UNDER KITCHEN HOOD.
- 4 FURNISH AND INSTALL MONITOR MODULE FOR CONNECTION TO HOOD CONTROL SIGNAL. SIGNAL FROM HOOD DURING FIRE SUPPRESSION ACTIVATION SHALL CAUSE FIRE ALARM TO ACTIVATE.
- 5 ALL RECEPTACLES IN KITCHEN SHALL BE GFCI WITH STAINLESS STEEL COVER PLATES.
- 6 HOOD EXHAUST FAN LOCATED ABOVE COOLER. PROVIDE ELECTRICAL CONNECTION TO EQUIPMENT. COORDINATE REQUIREMENTS WITH KITCHEN INSTALLER PRIOR TO ROUGH-IN. SEE KITCHEN PLANS FOR ADDITIONAL INFORMATION.
- 7 PROVIDE 120V POWER AND ONE CAT.6 CABLE TO OVERHEAD TELEVISION. COORDINATE FINAL LOCATIONS AND MOUNTING HEIGHTS WITH KITCHEN INSTALLER AND ARCHITECT PRIOR TO ROUGH-IN.
- 8 PROVIDE ROUGH-IN CONDUIT AND BACKBOX FOR WIRELESS ACCESS POINT TO BE INSTALLED BY OWNERS I.T. REPRESENTATIVE.
- 9 ROUTE ONE #10AWG AND ONE #8GND TO CONDENSERS FOR 120V MAINTENANCE RECEPTACLE POWER. FURNISH AND INSTALL UNISTRUT FOR MOUNTING IF NOT PRE-INSTALLED ON CONDENSING UNIT. INSTALL GFCI RATED RECEPTACLE WITH NEMA-3 RATED "WHILE-IN-USE" COVER IF INSTALLED ON UNISTRUT.
- 10 NEW UTILITY TRANSFORMER. FURNISH AND INSTALL NEW CONCRETE TRANSFORMER PAD. TRANSFORMER TO BE SIZED AND INSTALLED BY AMEREN. CONCRETE TRANSFORMER PAD SHALL MEET AMEREN SERVICE MANUAL MINIMUM REQUIREMENTS.
- 11 REINSTALL PREVIOUSLY REMOVED AIR CONDENSING UNIT AND ASSOCIATED DISCONNECT SWITCH IN NEW LOCATION. FURNISH AND INSTALL UNISTRUT FOR MOUNTING OF DISCONNECT AND MAINTENANCE RECEPTACLE.
- 12 COORDINATE EXACT CONDENSATE DRAIN LOCATION FOR HEAT TRACE TAPE 'HT-1' WITH TH EQUIPMENT VENDOR PRIOR TO INSTALLATION.
- 13 FURNISH AND INSTALL VERTICAL TELECOMMUNICATIONS AND POWER POLY-PK RECEPTACLE. MOUNTING AND POWER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH KITCHEN INSTALLER.
- 14 FURNISH AND INSTALL SHUNT TRIP FOR HOOD SHUTDOWN UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM. COORDINATE FINAL LOCATION WITH OWNERS REPRESENTATIVE AND KITCHEN INSTALLER PRIOR TO ROUGH-IN.



**1 ENLARGED FLOOR PLAN - KITCHEN - POWER & SYSTEMS**  
 SCALE: 1/2" = 1'-0"



**2 ENLARGED PLAN - EXTERIOR EQUIPMENT AND COOLER - POWER & SYSTEMS**  
 SCALE: 1/4" = 1'-0"



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**PEORIA PARK DISTRICT  
 GOLF PRACTICE FACILITY ADDITION**  
 7815 N. RADNOR ROAD, PEORIA ILLINOIS 61615  
 DKA PROJECT NO: 22-051



DATE: 4/9/2024

KEY PLAN:

SHEET STATUS: APRIL 9, 2024  
**BIDDING AND PERMIT SET**

NO.	DESCRIPTION	DATE
2	ADD #3	04/22/24

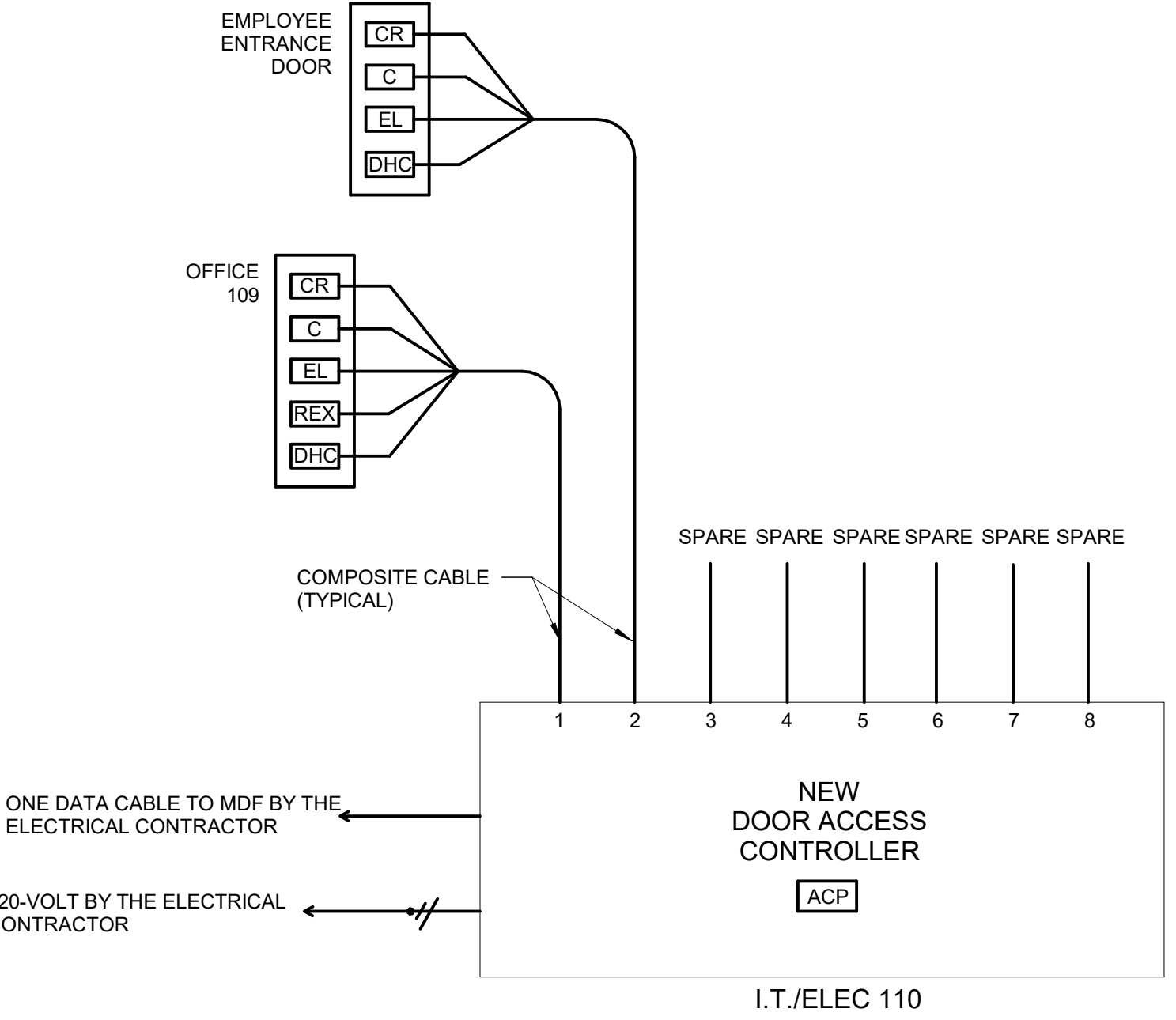
SHEET TITLE:  
**FIRE ALARM AND ACCESS CONTROL SCHEDULES AND DETAILS**

SHEET NUMBER:

**E4.0**

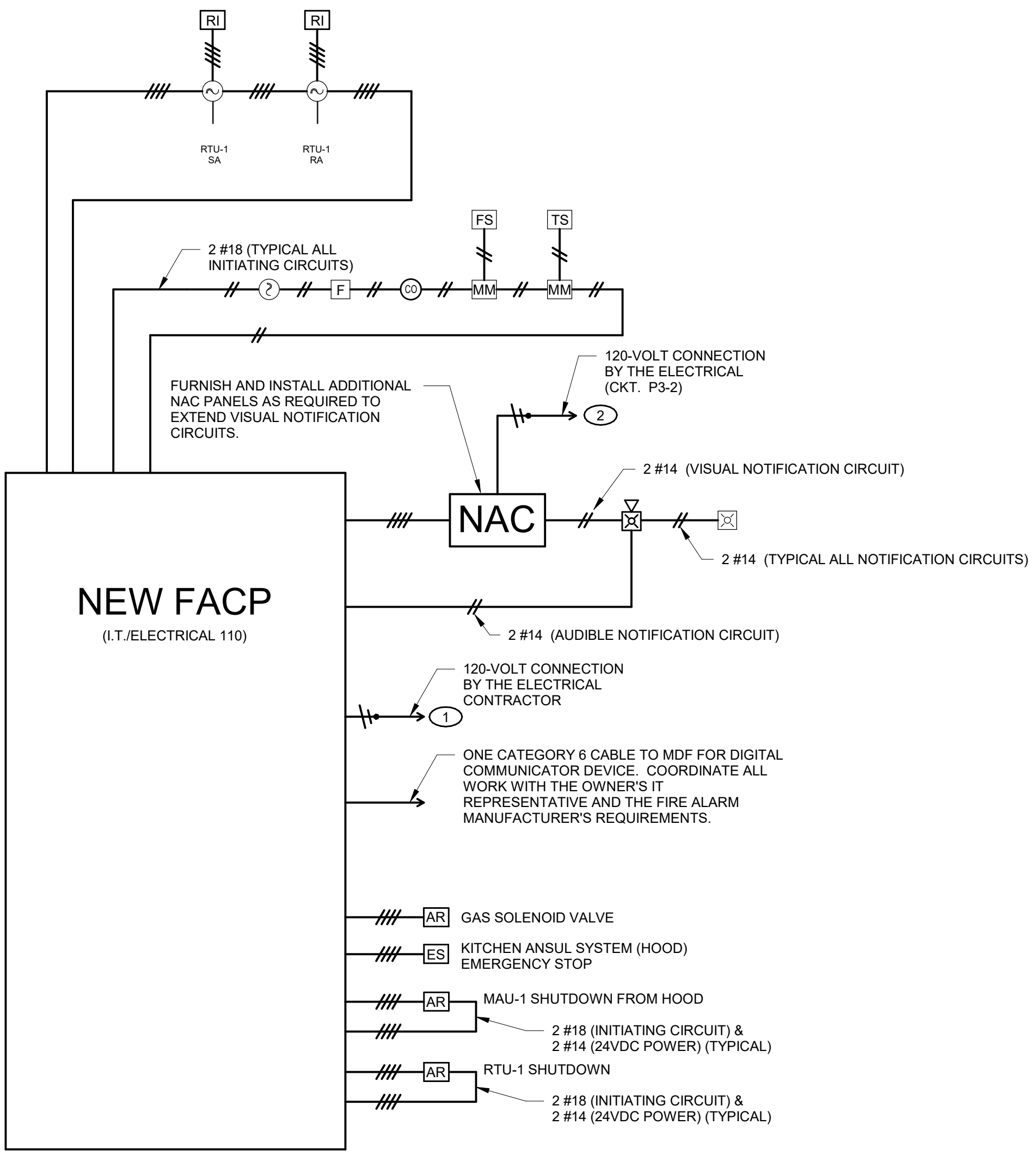
FIRE ALARM SCHEDULE		
SYMBOL	DESCRIPTION	MANUFACTURER
[FACP]	NEW CONVENTIONAL FIRE ALARM CONTROL PANEL, NON-ADDRESSABLE, WITH MULTI-FUNCTION KEYPAD INTERFACE. FURNISH AND INSTALL REQUIRED ZONE CARDS TO SUPPORT REQUIRED FIRE ALARM DEVICES. E.C. SHALL INCLUDE TIME FOR PROGRAMMING, TESTING, AND CERTIFICATION OF OPERABLE SYSTEM IN BID PROPOSAL.	SIMPLEX EDWARDS-EST NOTIFIER
[NAC]	NOTIFICATION APPLIANCE CIRCUIT EXTENDER	SIMPLEX EDWARDS-EST NOTIFIER
[SND]	AUDIO/VISUAL NOTIFICATION DEVICE, 24-VOLT DC, SEMI-FLUSH WALL MOUNTING, RED HIGH-ABUSE PLASTIC HOUSING, WHITE LETTERING, ELECTRONIC SPEAKER WITH SELECTABLE TEMPORAL OR CONTINUOUS TONE, WITH HIGH-INTENSITY STROBE UNIT. FIELD ADJUSTABLE CANDELA OUTPUT RATING. CANDELA RATINGS SHALL BE AS DICTATED BY NFPA AND THE AUTHORITY HAVING JURISDICTION.	SIMPLEX EDWARDS-EST NOTIFIER
[VND]	VISUAL NOTIFICATION DEVICE, 24-VOLT DC, SEMI-FLUSH WALL MOUNTING, RED HIGH-ABUSE PLASTIC HOUSING, WHITE LETTERING, WITH HIGH-INTENSITY STROBE UNIT. FIELD ADJUSTABLE CANDELA OUTPUT RATING. CANDELA RATINGS SHALL BE AS DICTATED BY NFPA AND THE AUTHORITY HAVING JURISDICTION.	SIMPLEX EDWARDS-EST NOTIFIER
[SMD]	SMOKE DETECTOR, PHOTOELECTRIC, TWO-WIRE TYPE, STANDARD TWIST-LOCK BASE MODULE, SELF-RESTORING, WITH INTEGRAL LED VISUAL-INDICATING LIGHT.	SIMPLEX EDWARDS-EST NOTIFIER
[DSMD]	DUCT SMOKE DETECTOR, PHOTOELECTRIC ANALOG SENSOR, 2-WIRE OPERATION, 2-PIECE DESIGN, 24-VOLT DC, LOW-PROFILE BASE, MULTIFUNCTION LED INDICATOR WITH SAMPLING TUBES TO MATCH DUCTWORK DIMENSIONS. COMPLETE WITH HOUSING AND ALL RELATED ACCESSORIES.	SIMPLEX EDWARDS-EST NOTIFIER
[CMD]	CARBON MONOXIDE DETECTOR, TWIST-LOCK BASE MODULE, SELF-RESTORING, WITH INTEGRAL LED VISUAL-INDICATING LIGHT.	SIMPLEX EDWARDS-EST NOTIFIER
[RI]	REMOTE INDICATING LIGHT/KEY SWITCH, CAPABLE OF PROVIDING REMOTE STATUS FOR SMOKE DETECTORS NOT READILY VISIBLE FROM NORMAL VIEWING POSITION. COORDINATE EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.	SIMPLEX EDWARDS-EST NOTIFIER
[MPS]	MANUAL FIRE ALARM PULL STATION, RED FINISH, RAISED LETTER OPERATING INSTRUCTIONS IN CONTRAST COLOR, DOUBLE ACTION MECHANISM WITH STATION RESET BY KEY OR WRENCH-OPERATED SWITCH, 24-VOLT DC, TWO-WIRE TYPE.	SIMPLEX EDWARDS-EST NOTIFIER
[AR]	FIRE ALARM RELAY, 24-VOLT, 4-WIRE OPERATION, RELAY SHALL INCLUDE A CONTROL MODULE AND SLAVE RELAY WITH AUXILIARY CONTACTS SUITABLE FOR CONTROLLING LOADS AS DESIGNATED.	SIMPLEX EDWARDS-EST NOTIFIER
[MM]	FIRE ALARM MONITOR MODULE, 24-VOLT, 2-WIRE OPERATION, MODULE SHALL MONITOR CONTACT CLOSURE OF ANSUL HOOD FIRE SUPPRESSION SYSTEM TO PROVIDE A SYSTEM AS INDICATED.	SIMPLEX EDWARDS-EST NOTIFIER
[FS]	FIRE PROTECTION SPRINKLER FLOW SWITCH, FURNISHED AND INSTALLED BY OTHERS, WIRED BY THE ELECTRICAL CONTRACTOR. PROVIDE INTERFACE WITH THE FIRE ALARM SYSTEM TO INDICATE ALARM NOTIFICATION THROUGH NORMALLY OPEN DRY CONTACTS.	SIMPLEX EDWARDS-EST NOTIFIER
[TS]	FIRE PROTECTION SPRINKLER TAMPER SWITCH, FURNISHED AND INSTALLED BY OTHERS, WIRED BY THE ELECTRICAL CONTRACTOR. PROVIDE INTERFACE WITH THE FIRE ALARM SYSTEM TO INDICATE SUPERVISORY NOTIFICATION THROUGH NORMALLY OPEN DRY CONTACTS.	FURNISHED BY OTHERS, WIRED BY E.C.

- FIRE ALARM SYSTEM GENERAL NOTES:**
- SEE PLANS FOR EQUIPMENT LOCATIONS AND DEVICE QUANTITIES.
  - NEW FIRE ALARM SYSTEM SHALL BE NON-ADDRESSABLE, CONVENTIONAL FIRE ALARM SYSTEM.
  - ALL FIRE ALARM CABLING MAY BE ROUTED OPEN ABOVE ACCESSIBLE CEILINGS.
  - ALL CABLING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
  - OPEN CABLING IS NOT PERMITTED.
  - INCLUDE ALL PROGRAMMING AND SYSTEM MODIFICATIONS IN QUOTATION TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
  - ALL FIRE ALARM CIRCUITS MAY BE ROUTED TOGETHER IN THE SAME RACEWAY.
  - NON-FIRE ALARM CONDUCTORS SHALL NOT BE ROUTED TOGETHER WITH FIRE ALARM CONDUCTORS.
  - AC LINE VOLTAGE CONDUCTORS SHALL NOT BE ROUTED WITH FIRE ALARM CABLING.
  - ALL SIGNAL DEVICE CIRCUIT LOOPS SHALL BE WIRED STYLE 4, CLASS B PER NFPA 72, ARTICLE 3-4.4.
  - ALL NOTIFICATION APPLIANCE CIRCUITS SHALL BE WIRED STYLE Y, CLASS B PER NFPA 72, ARTICLE 3-4.7. T-TAPPING IS NOT ALLOWED. EACH CIRCUIT MUST ENTER AND EXIT EVERY DEVICE IN A CONTINUOUS LOOP TO THE LAST DEVICE WHICH SHALL BE TERMINATED WITH AN END-OF-LINE RESISTOR.
  - WALL MOUNTED SPEAKER/STROBES TO BE MOUNTED 80" ABOVE FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
  - WIRING SHOWN IS DIAGRAMMATIC ONLY. ACTUAL CONDUIT ROUTING AND DEVICE LOCATION SHALL BE DETERMINED IN THE FIELD.
  - ALL WIRING SHALL BE FROM DEVICE TERMINAL TO DEVICE TERMINAL.
  - DO NOT ROUTE CONDUITS INTO BOTTOM OF FACP. THE BOTTOM OF CABINETS ARE RESERVED FOR BACKUP BATTERIES.



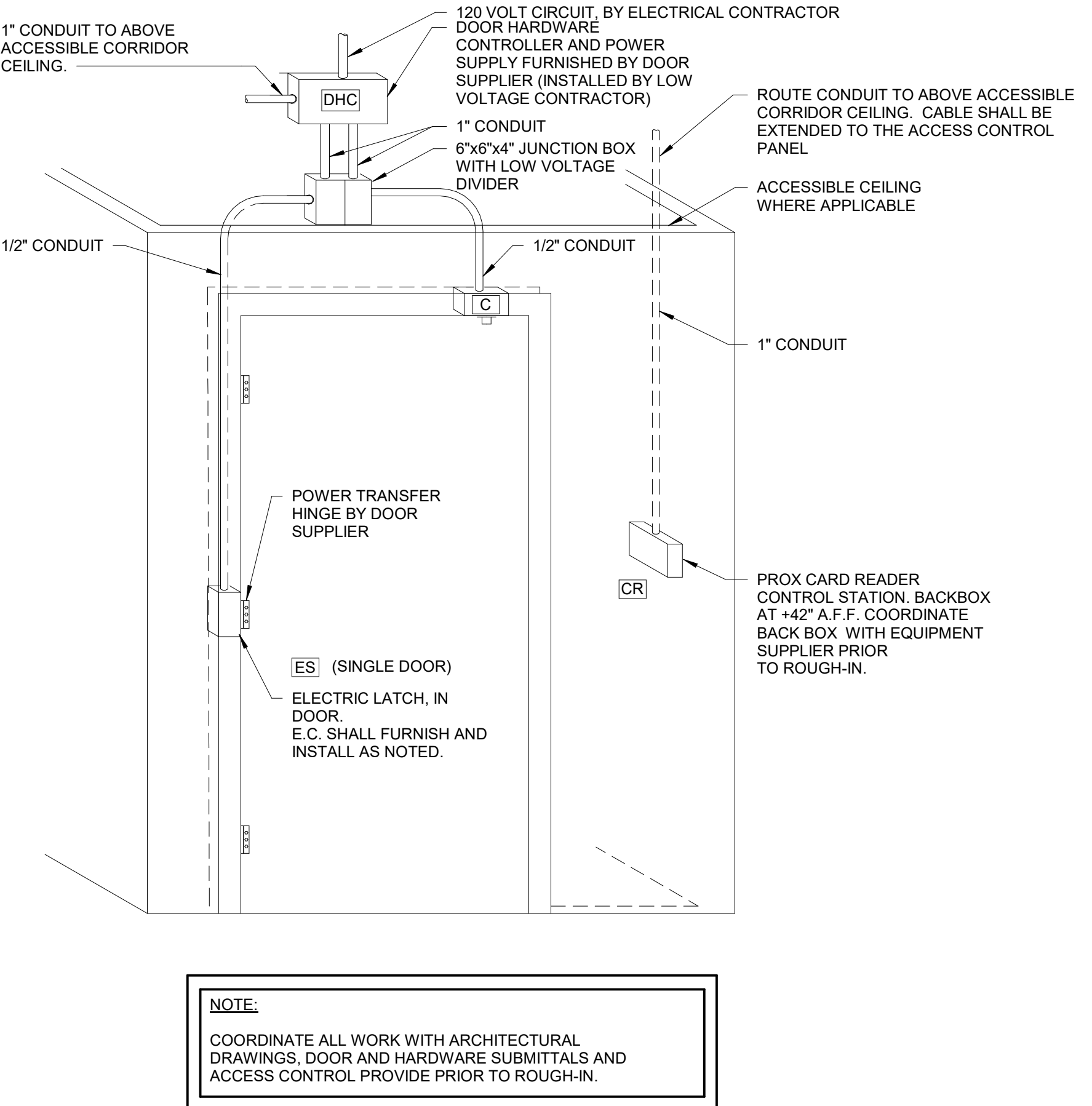
② TYPICAL ACCESS CONTROL RISER DIAGRAM  
 SCALE: NOT TO SCALE

ACCESS CONTROL EQUIPMENT SCHEDULE		
SYMBOL	DESCRIPTION	MANUFACTURER
[ACP]	FURNISH, INSTALL, AND WIRE NEW ACCESS CONTROL PANEL. FURNISH AND INSTALL COMPOSITE CABLING FOR EACH DOOR FROM THE ACCESS CONTROL PANEL TO THE DOOR ACCESS CONTROL DEVICES AT EACH DOOR. ALL INSTALLATIONS AND FINAL TERMINATIONS SHALL BE PER THE ACCESS CONTROL CONTRACTOR'S INSTRUCTIONS. COORDINATE ALL WORK WITH THE SUPPLIER PRIOR TO BID.	S2 NODE FURNISHED, INSTALLED AND WIRED BY E.C. INCLUDE ALL PRICING FROM THE ACCESS CONTROL VENDOR IN THE ELECTRICAL BID PROPOSAL.
[CR]	ACCESS CONTROL PROXIMITY CARD READER FURNISHED, INSTALLED, WIRED AND CONTROLLED BY THE E.C. THROUGH THE ACCESS CONTROL SYSTEM. PROVIDE BACK BOX AND CONDUIT ROUGH-IN TO ABOVE ACCESSIBLE CEILING PER S2 GLOBAL NETWORK INSTRUCTIONS.	HID FURNISHED, INSTALLED AND WIRED BY E.C. INCLUDE ALL PRICING FROM THE ACCESS CONTROL VENDOR IN THE ELECTRICAL BID PROPOSAL.
[REX]	ACCESS CONTROL REQUEST TO EXIT MOTION SENSOR FURNISHED, INSTALLED, WIRED AND CONTROLLED BY THE E.C. THROUGH THE ACCESS CONTROL SYSTEM. FURNISH AND INSTALL ROUGH-IN AND CABLING PER ALLIED LOCK AND SAFE'S INSTRUCTIONS.	FURNISHED BY DOOR HARDWARE SUPPLIER, INSTALLED AND WIRED BY E.C. INCLUDE ALL PRICING FROM THE ACCESS CONTROL VENDOR IN THE ELECTRICAL BID PROPOSAL.
[C]	ACCESS CONTROL DOOR CONTACT RECESSED MAGNETIC REED STYLE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. EXTEND LOW VOLTAGE SIGNAL CONDUCTORS BACK TO THE ACCESS CONTROL SYSTEM DOOR CONTROLLER.	FURNISHED BY DOOR HARDWARE SUPPLIER, INSTALLED AND WIRED BY E.C. INCLUDE ALL PRICING FROM THE ACCESS CONTROL VENDOR IN THE ELECTRICAL BID PROPOSAL.
[PP]	ACCESS CONTROL PUSH PAD DOOR OPERATOR FURNISHED BY DOOR HARDWARE SUPPLIER AS PART OF THE DOOR HARDWARE. INSTALLED, WIRED, AND CONTROLLED BY THE ELECTRICAL CONTRACTOR THROUGH THE ACCESS CONTROL SYSTEM. FURNISH AND INSTALL BACK BOX AND CONDUIT ROUGH-IN PER THE DOOR HARDWARE SUPPLIER'S INSTRUCTIONS.	S2 GLOBAL NETBOX FURNISHED BY DOOR HARDWARE SUPPLIER, INSTALLED AND WIRED BY E.C. INCLUDE ALL PRICING FROM THE ACCESS CONTROL VENDOR IN THE ELECTRICAL BID PROPOSAL.
[DHC]	ACCESS CONTROL DOOR HARDWARE CONTROLLER FURNISHED BY DOOR HARDWARE SUPPLIER AS PART OF THE DOOR HARDWARE. INSTALLED, WIRED AND CONTROLLED BY THE E.C. THROUGH THE ACCESS CONTROL SYSTEM. FURNISH AND INSTALL ROUGH-IN AND CABLING PER ALLIED LOCK AND SAFE'S INSTRUCTIONS.	FURNISHED BY DOOR HARDWARE SUPPLIER, INSTALLED AND WIRED BY E.C. INCLUDE ALL PRICING FROM THE ACCESS CONTROL VENDOR IN THE ELECTRICAL BID PROPOSAL.
[ES]	ACCESS CONTROL ELECTRIC LOCK OR ELECTRIC STRIKE FURNISHED AND INSTALLED BY THE DOOR HARDWARE SUPPLIER, WIRED AND CONTROLLED BY THE E.C. THROUGH THE ACCESS CONTROL SYSTEM. EXTEND CABLE INTO DOOR FRAME AS REQUIRED TO MAKE FINAL TERMINATION TO HARDWARE CABLING LEADS.	FURNISHED BY DOOR HARDWARE SUPPLIER, INSTALLED AND WIRED BY E.C. INCLUDE ALL PRICING FROM THE ACCESS CONTROL VENDOR IN THE ELECTRICAL BID PROPOSAL.
[LIC]	64-PACK OF DOOR ACCESS CONTROL LICENSE	S2 INCLUDE ALL PRICING FROM THE ACCESS CONTROL VENDOR IN THE ELECTRICAL BID PROPOSAL.

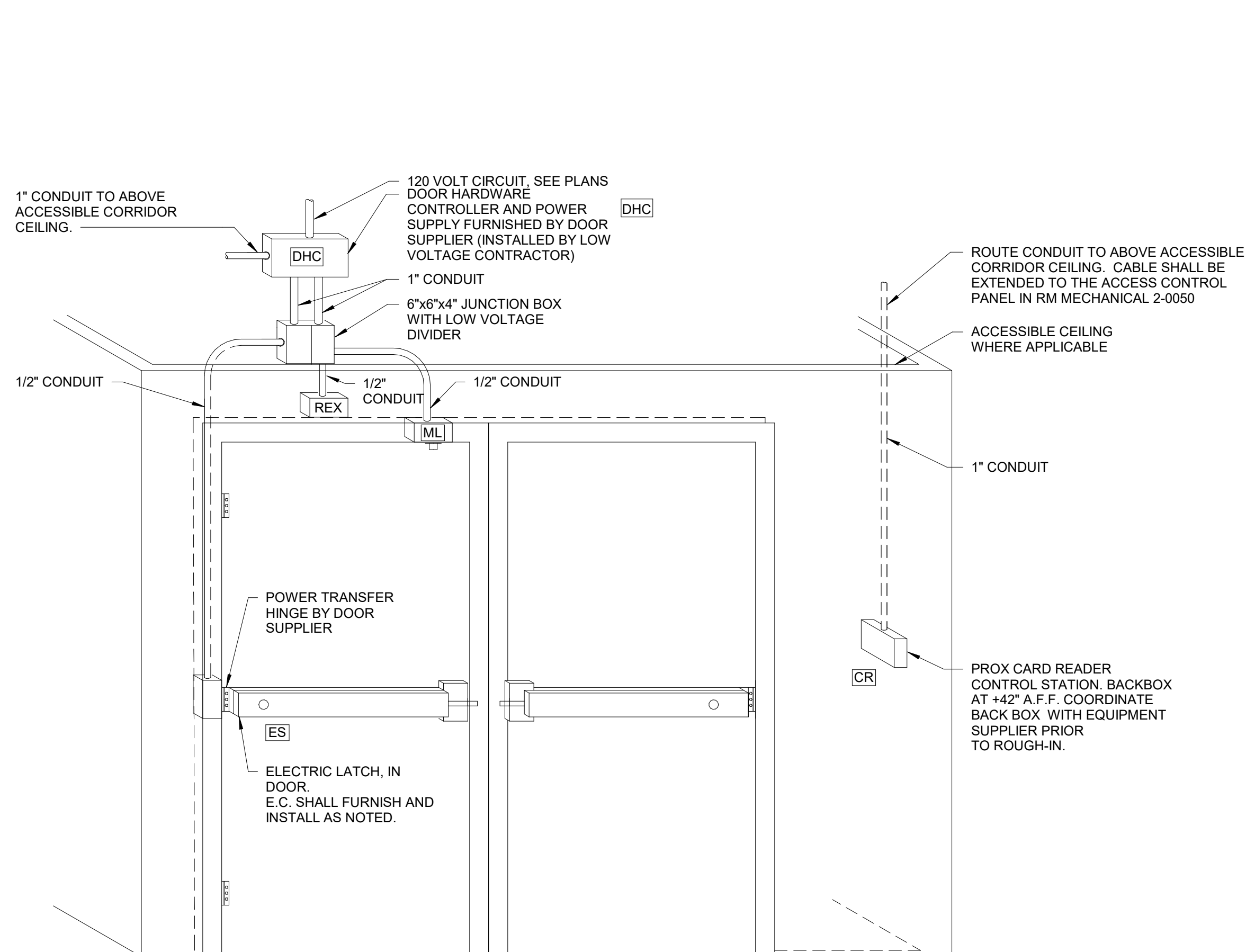


- FIRE ALARM SYSTEM NOTES:**
- ROUTE 2#12 & 1#12 GROUND CONDUCTORS IN RED CONDUIT TO A NEW 20-AMPERE, SINGLE-POLE, 120-VOLT CIRCUIT BREAKER IN LOCAL PANEL WHERE THE FIRE ALARM SUPPLIER REQUIRES THE FIRE ALARM CONTROL PANEL TO BE LOCATED. FURNISH AND INSTALL A HANDLE "LOCK ON" DEVICE. PAINT THE BREAKER HANDLE RED.
  - ROUTE 2#12 & 1#12 GROUND CONDUCTORS IN RED CONDUIT TO A NEW 20-AMPERE, SINGLE-POLE, 120-VOLT CIRCUIT BREAKER IN LOCAL PANEL WHERE THE FIRE ALARM SUPPLIER REQUIRES THE NAC PANEL TO BE LOCATED. FURNISH AND INSTALL A HANDLE "LOCK ON" DEVICE. PAINT THE BREAKER HANDLE RED.

① FIRE ALARM SYSTEM RISER DIAGRAM  
 SCALE: NOT TO SCALE



③ DOOR SECURITY ROUGH-IN DETAIL  
 SCALE: NOT TO SCALE



④ DOOR SECURITY ROUGH-IN DETAIL - MULTI-DOOR  
 SCALE: NOT TO SCALE

**NOTE:**  
 COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS, DOOR AND HARDWARE SUBMITTALS AND ACCESS CONTROL PROVIDE PRIOR TO ROUGH-IN.



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**DEMONICA KEMPER ARCHITECTS**  
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**PEORIA PARK DISTRICT**  
**GOLF PRACTICE FACILITY ADDITION**  
 7815 N. RADNOR ROAD, PEORIA ILLINOIS 61615  
 DKA PROJECT NO: 22-051

DATE: 4/9/2024  
 KEY PLAN:

SHEET STATUS: APRIL 9, 2024  
**BIDDING AND PERMIT SET**

NO.	DESCRIPTION:	DATE:
1	ADD #1	04/16/24
2	ADD #3	04/22/24

SHEET TITLE:  
**LIGHTING AND CONTROLS SCHEDULE AND DETAILS**

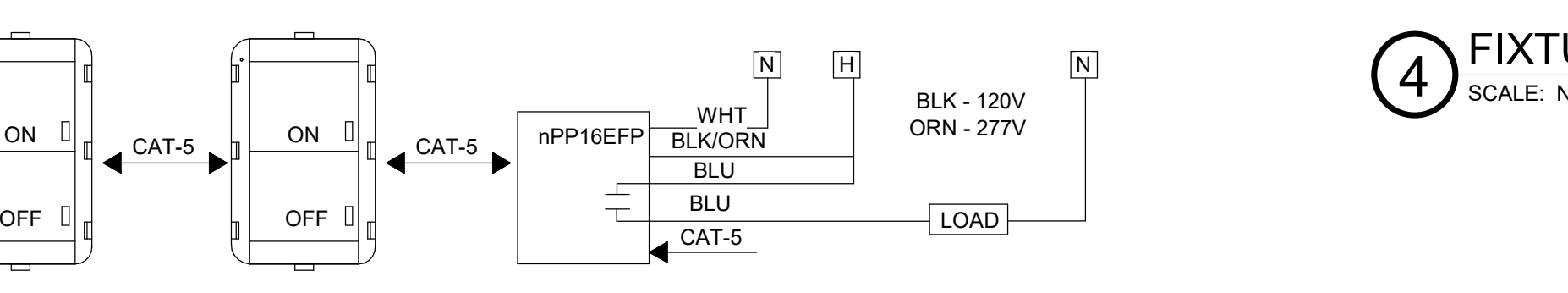
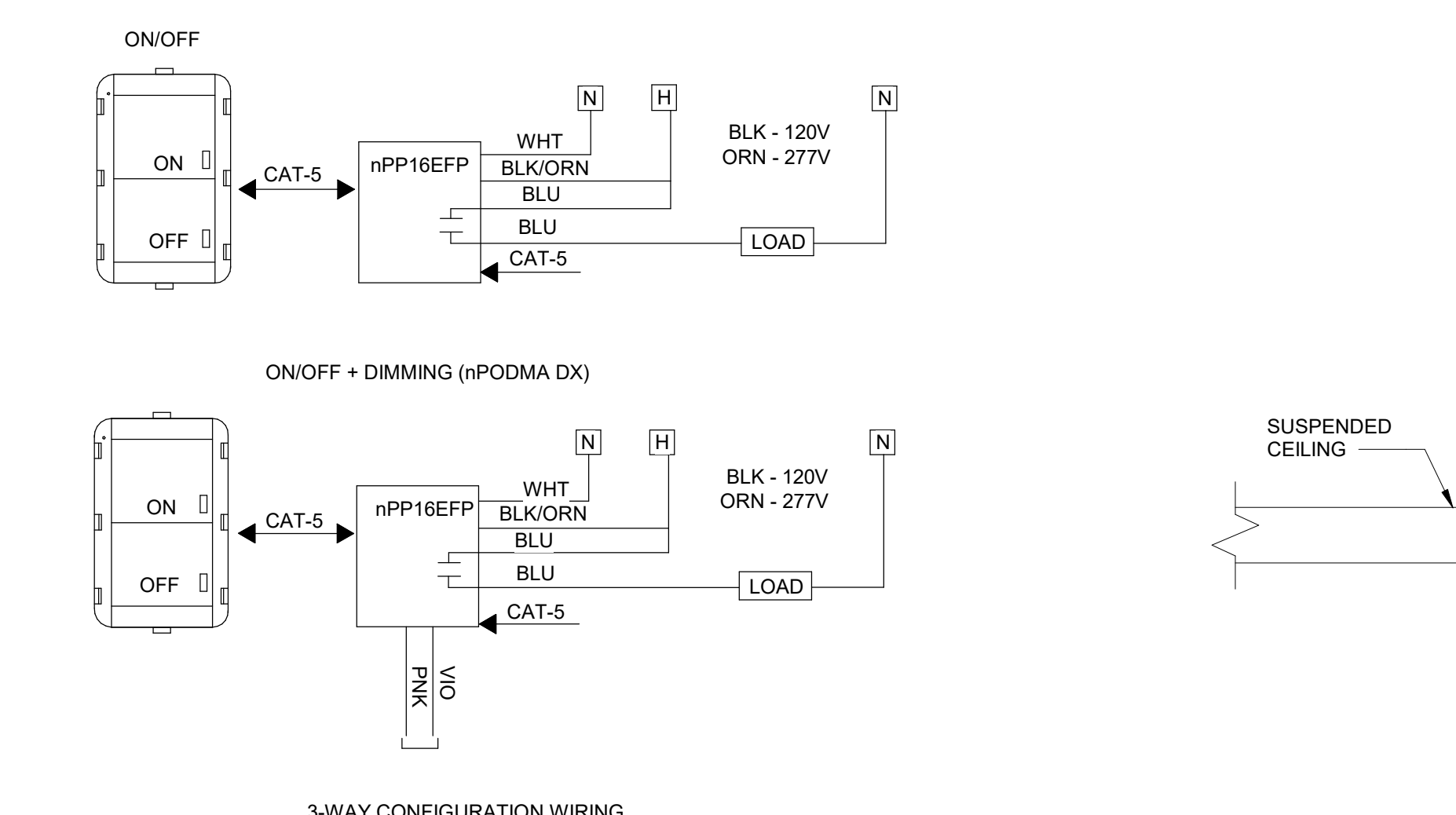
SHEET NUMBER:  
**E4.2**

**LUMINAIRE SCHEDULE NOTES:**

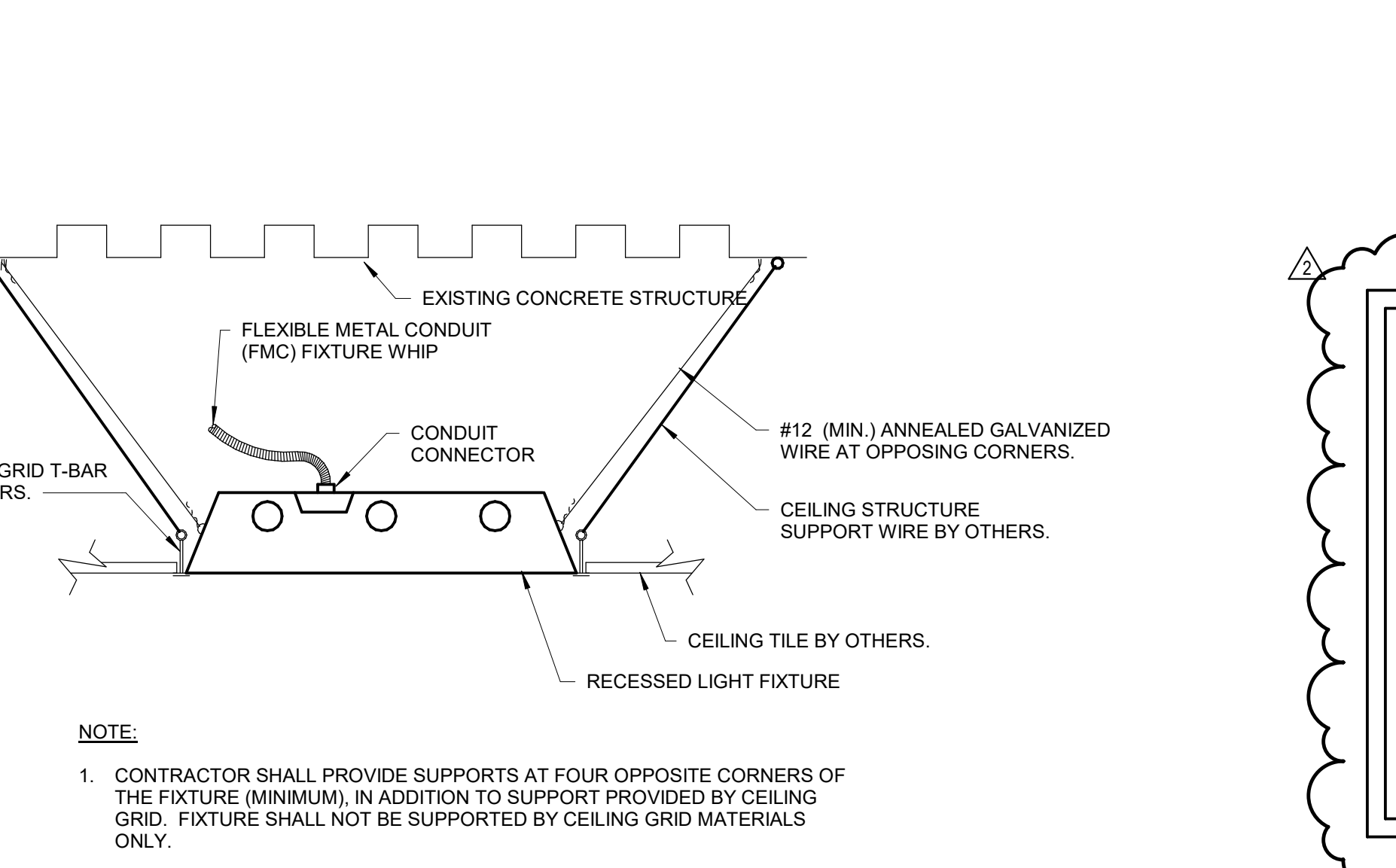
- CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, MECHANICAL SYSTEM PLANS, DETAILS, SECTIONS, AND ELEVATIONS FOR AID IN COORDINATION OF FIXTURE LOCATIONS AND ANY INTERFERENCES.
- CONTRACTOR SHALL PROVIDE COPIES OF COMPLETE FIXTURE SCHEDULES, LIGHTING PLANS, AND LIGHTING SPECIFICATIONS TO ALL SUPPLIERS OR MANUFACTURERS' REPRESENTATIVES INVOLVED IN FIXTURE PRICING OR ORDERING, PRIOR TO BID.
- FIXTURES SHALL BE PROVIDED WITH FEATURES, OPTIONS, AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION AND THOSE LISTED IN FIXTURE MODEL NUMBERS PROVIDED, SPECS, AND WRITTEN DESCRIPTION. IF CONFLICTS EXIST BETWEEN THESE, NOTIFY A/E FOR CLARIFICATION PRIOR TO BIDDING OR ORDERING.
- ALL FIXTURES RECESSED IN, OR SUSPENDED FROM SUSPENDED ACoustICAL TILE (S.A.T.) CEILING SHALL HAVE INDEPENDENT SUPPORT FROM BUILDING FRAMING OR OTHER APPROVED STRUCTURE.
- ALL TEMPERATURE COLORS SHALL BE 4000K UNLESS SPECIFICALLY NOTED OTHERWISE.
- NOTIFY A/E IMMEDIATELY OF DISCREPANCIES AND MAKE NECESSARY CORRECTIONS PRIOR TO BIDDING.
- ALL LUMINAIRES SHALL BE CEE CERTIFIED.
- LAY-IN LUMINAIRES SHALL USE THE GRID AS A SUPPORT ELEMENT. INSTALL CEILING SUPPORT SYSTEM RODS OR WIRES INDEPENDENT OF THE CEILING SUSPENSION DEVICES FOR EACH FIXTURE FOR SUPPLEMENTAL SUPPORT. LOCATE THE SUPPORTS NOT MORE THAN SIX INCHES FROM THE LIGHTING FIXTURE CORNERS.
- SUPPORT CLIPS SHALL FASTEN TO THE LIGHTING FIXTURES AND TO THE CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE CORNER WITH CLIPS THAT ARE UL LISTED FOR THE APPLICATION.
- FIXTURES SIZED LESS THAN THE CEILING GRID SHALL BE INSTALLED AS INDICATED ON THE REFLECTED CEILING PLANS OR CENTER IN THE ACoustICAL PANEL. SUPPORT THE FIXTURES INDEPENDENTLY WITH AT LEAST TWO 3/4" METAL CHANNELS SPANNING AND SECURED TO THE CEILING TILES.

**ALLOWANCE:**

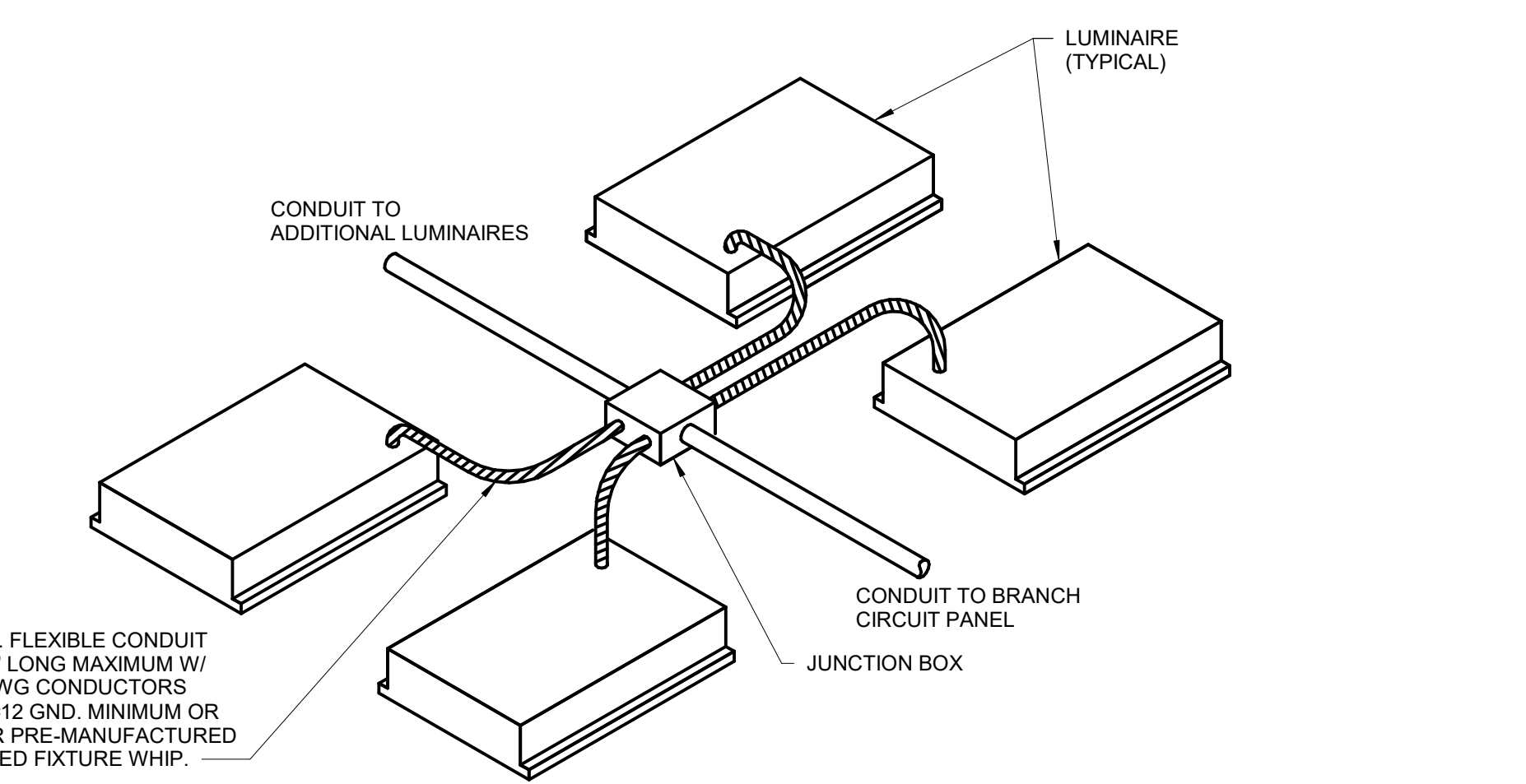
- THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID AN ALLOWANCE FOR THE ADDITION OF FIVE TYPE E1 EXIT LUMINAIRES, FIVE TYPE E2 EXIT LUMINAIRES, FIVE TYPE E3 EXIT LUMINAIRES AND FIVE TYPE E4 LUMINAIRES. THE LUMINAIRES SHALL BE FIELD LOCATED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION OR THE CITY INSPECTOR DURING THE BLACK-OUT TESTING. EACH LUMINAIRE SHALL INCLUDE A BACK BOX WITH THE APPROPRIATE DEVICE RING OR BLANK COVER PLATE AND FINAL CONNECTION, FORTY (40) LINEAL FEET OF 3/4" CONDUIT, ONE HUNDRED FIFTY LINEAL FEET (150) OF #12 AWG CONDUCTORS AND ALL ASSOCIATED CONNECTORS, SUPPORTS, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION. **DO NOT ORDER THE LUMINAIRES UNTIL THE OWNER/ARCHITECT INSTRUCTS THE INSTALLATION. PROVIDE CREDIT BACK TO THE PROJECT PRIOR TO THE FINAL PAY APPLICATION FOR ALL UNUSED LUMINAIRES AND RELATED MATERIALS.**



1 TYPICAL NETWORKED LIGHTING CONTROLS  
 SCALE: NOT TO SCALE



2 RECESSED TROFFER MOUNTING DETAIL  
 SCALE: NOT TO SCALE



3 TYPICAL RECESSED LIGHT FIXTURE WIRING DIAGRAM  
 SCALE: NOT TO SCALE

**LUMINAIRE SCHEDULE (CONT.)**

CALLOUT	SYMBOL	DESCRIPTION	MODEL
W	□	WALL PACK, ALUMINUM HOUSING, NATURAL ALUMINUM FINISH, UNIVERSAL VOLTAGE INPUT, P2 OPTICS WITH 2000 LUMEN OUTPUT, 4000K COLOR TEMPERATURE, WITH EMERGENCY BACK-UP BATTERY, NATURAL ALUMINUM FINISH.	LITHONIA ARC1 LED P2 40K MVOLT E4WH DNAXD
P1	□	FIXTURE: LED AREA/SITE LUMINAIRE, DIE CAST ALUMINUM HOUSING, BLACK POWDER COAT FINISH, SQUARE POLE MOUNTED, MOLDED SILICONE LENS, 7400 LUMEN OUTPUT, TYPE 4 DISTRIBUTION, 4000K COLOR TEMPERATURE, MULTI-VOLTAGE INPUT, 0-10V DC DIMMING.	FIXTURE: LITHONIA DSX1 LED P1 40K 80CRI T4M MVOLT SFA DBLXD
R1	□	POLE: 5" SQUARE STRAIGHT STEEL POLE, 7-GAUGE THICKNESS, 15' NOMINAL LENGTH, TWO-PIECE STEEL BASE COVER, BLACK FINISH TO MATCH FIXTURES. LUMINAIRE SHALL BE CONTROLLED VIA RELAYS IN LIGHTING PANEL.	POLE: LITHONIA SSS 15 5G DM29AS FBCSTL2PC DBLXD
S1	□	RANGE LIGHTING FIXTURE FOR TOP TRACER CAMERA TRACKING SYSTEM, LED SPORT LUMINAIRE, 8-OPTIC, 340W, 120V INPUT, 4000K COLOR TEMPERATURE, 80CRI, NEMA 7 OPTICS, WIRED DMX CONTROLS, WITH VISOR. AIM FIXTURES SUCH THAT CENTER OF BEAM IS APPROXIMATELY 65' ABOVE GRADE AT APPROXIMATELY 150 FEET FROM FIXTURES. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL PLANS PRIOR TO RELEASE. ORDER WITH ALL REQUIRED ACCESSORIES FOR INSTALLATION.	LUMASPORT EPH-08-0320L-BLK-40-80-7F-LB-#W-#E ##MOUNTING CONFIGURATION
	□	FIXTURE: LED AREA/SITE LUMINAIRE, DIE CAST ALUMINUM HOUSING, BLACK POWDER COAT FINISH, SQUARE POLE MOUNTED, MOLDED SILICONE LENS, 13400 LUMEN OUTPUT, TYPE 4 DISTRIBUTION, 4000K COLOR TEMPERATURE, MULTI-VOLTAGE INPUT, 0-10V DC DIMMING. POLE: 5" SQUARE STRAIGHT STEEL POLE, 7-GAUGE THICKNESS, 30' NOMINAL LENGTH, TWO-PIECE STEEL BASE COVER, BLACK FINISH TO MATCH FIXTURES. LUMINAIRE SHALL BE CONTROLLED VIA RELAYS IN LIGHTING PANEL. E.C. SHALL VERIFY FIXTURE MOUNTING PRIOR TO RELEASE. SINGLE FIXTURE POLES SHALL REQUIRE 'DM19AS' MOUNTING TO BE SPECIFIED ON POLES. TWO FIXTURE POLES SHALL REQUIRE 'DM29AS' MOUNTING.	FIXTURE: LITHONIA DSX1 LED P3 40K 80CRI T4M MVOLT SFA DBLXD POLE: LITHONIA SSS 30 5G DM#AS FBCSTL2PC DBLXD

**LIGHTING CONTROL SCHEDULE**

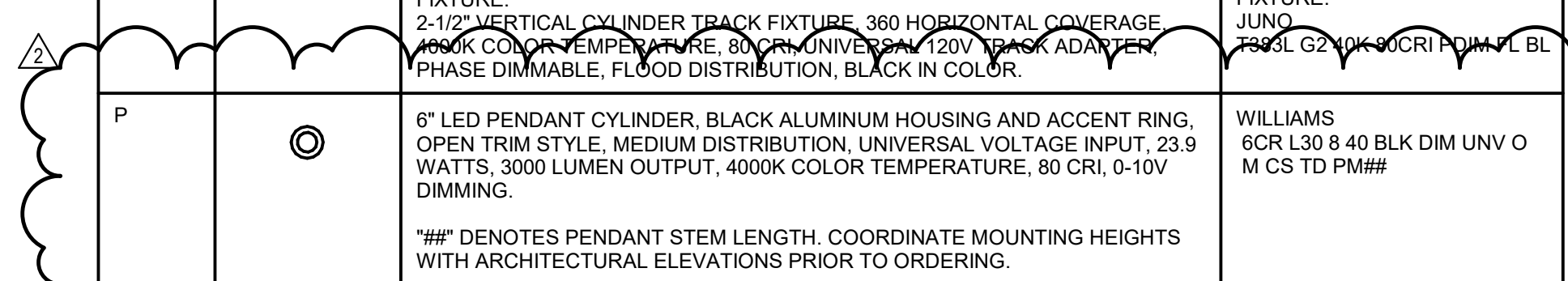
ITEM	SYMBOL	DESCRIPTION	MODEL
1	COVER PLATES	ALL COVER PLATES FOR DEVICES SHALL BE THERMOPLASTIC CONSTRUCTION IN FINISHED AREAS. ALL COVERPLATES IN THE KITCHEN AREA SHALL BE STAINLESS STEEL CONSTRUCTION. COVER PLATES IN UNFINISHED SPACES SHALL BE GALVANIZED STEEL. THE COLOR OF THE THERMOPLASTIC COVER PLATES SHALL BE BLACK UNLESS SPECIFIED OTHERWISE ON SHEET E100L AND E100P.	HUBBELL COOPER LEVITON PASS & SEYMOUR WATTSTOPPER
2	\$ LV	ARCHITECTURAL NETWORK CAPABLE LOW VOLTAGE WALL SWITCH, PUSH BUTTON TYPE, SUITABLE FOR USE WITH LED LIGHTING CONTROL. ALL SWITCHES SHALL BE BLACK EXCEPT IN KITCHEN, UNFINISHED AREAS, AND WHERE SPECIFIED ON DRAWINGS.	ACUTY nLIGHT nPODMA SERIES WATTSTOPPER
3	\$ 3	ARCHITECTURAL NETWORK CAPABLE LOW VOLTAGE WALL SWITCH, 3 WAY, PUSH BUTTON TYPE, SUITABLE FOR USE WITH LED LIGHTING CONTROL. ALL SWITCHES SHALL BE BLACK EXCEPT IN KITCHEN, UNFINISHED AREAS, AND WHERE SPECIFIED ON DRAWINGS.	ACUTY nLIGHT nPODMA SERIES WATTSTOPPER
4	\$ D	ARCHITECTURAL NETWORK CAPABLE LOW VOLTAGE DIMMER SWITCH, PUSH BUTTON TYPE, 0-10VDC DIMMING CONTROL SIGNAL, SUITABLE FOR USE WITH LED LIGHTING CONTROL. ALL SWITCHES SHALL BE BLACK EXCEPT IN KITCHEN, UNFINISHED AREAS, AND WHERE SPECIFIED ON DRAWINGS.	ACUTY nLIGHT nPODMA-D SERIES WATTSTOPPER
5	\$ 3D	ARCHITECTURAL NETWORK CAPABLE LOW VOLTAGE MULTI-WAY DIMMER SWITCH, PUSH BUTTON TYPE, 0-10VDC DIMMING CONTROL SIGNAL, SUITABLE FOR USE WITH LED LIGHTING CONTROL. ALL SWITCHES SHALL BE BLACK EXCEPT IN KITCHEN, UNFINISHED AREAS, AND WHERE SPECIFIED ON DRAWINGS.	ACUTY nLIGHT nPODMA-D SERIES WATTSTOPPER
6	\$ TS	PROGRAMMABLE DMX LIGHTING CONTROLLER FOR RGBW DIMMING CONTROL, TOUCH SCREEN INTERFACE, BLACK FINISH, STAND-ALONE OR NETWORK CAPABLE, MULTI-ZONE CONTROL OF UP TO 340 RGBW FIXTURES.	OPTIC ARTS/LUMINII TSDMX-E WATTSTOPPER
7	\$ MS1	NETWORK CAPABLE AUTOMATIC WALL SWITCH/OCCUPANCY SENSOR AND DIMMER, 180 DEGREE COVERAGE OF 900 SF, INFRARED TECHNOLOGY, 120/277 VOLT, DIGITAL TIME DELAY ADJUSTMENT FROM 30 SECONDS TO 30 MINUTES, ADJUSTABLE SENSITIVITY FROM 20% TO 100%, ADJUSTABLE LIGHT LEVEL SETTING OF 2 TO 200 FOOT-CANDELES, COMPATIBLE WITH ALL ELECTRONIC BALLASTS, WITH LED INDICATOR TO INDICATE OCCUPANCY, FIVE YEAR WARRANTY. ADJUST FOR VACANCY OPERATION. ALL SWITCHES SHALL BE BLACK EXCEPT IN KITCHEN, UNFINISHED AREAS, AND WHERE SPECIFIED ON DRAWINGS.	ACUTY SENSOR SWITCH nWSXA SERIES WATTSTOPPER
8	\$ MS2	NETWORK CAPABLE AUTOMATIC WALL SWITCH/OCCUPANCY SENSOR, 180 DEGREE COVERAGE OF 900 SF, INFRARED TECHNOLOGY, 120/277 VOLT, DIGITAL TIME DELAY ADJUSTMENT FROM 30 SECONDS TO 30 MINUTES, ADJUSTABLE SENSITIVITY FROM 20% TO 100%, ADJUSTABLE LIGHT LEVEL SETTING OF 2 TO 200 FOOT-CANDELES, COMPATIBLE WITH ALL ELECTRONIC BALLASTS, WITH LED INDICATOR TO INDICATE OCCUPANCY, FIVE YEAR WARRANTY. ADJUST FOR VACANCY OPERATION. ALL SWITCHES SHALL BE BLACK EXCEPT IN KITCHEN, UNFINISHED AREAS, AND WHERE SPECIFIED ON DRAWINGS.	ACUTY SENSOR SWITCH nWSXA-D SERIES WATTSTOPPER
9	CS	NETWORK CAPABLE DUAL-TECHNOLOGY (PASSIVE INFRARED (PIR) AND ULTRASONIC OR MICROPHONIC), EXTENDED RANGE CEILING SENSOR, 360 DEGREE COVERAGE OF 30 FEET, LOW-VOLTAGE, TIME DELAY ADJUSTMENT FROM 30-SECONDS TO 20-MINUTES. ALL OCCUPANCY SENSORS SHALL BE BLACK IN COLOR UNLESS SPECIFIED OTHERWISE.	ACUTY nLIGHT nCM-PDT-10 WATTSTOPPER
10	PP	NETWORK CAPABLE LIGHTING SWITCH POWER PACK, 120-VOLT INPUT, 24-100V OUTPUT, SUITABLE FOR MOUNTING TO A STANDARD JUNCTION BOX.	ACUTY nLIGHT nPP16 WATTSTOPPER
11	PC	NETWORK CAPABLE LOW VOLTAGE PHOTOCELL, WEATHERPROOF, MOUNT ON ROOF AND AIM FACING NORTH.	ACUTY nLIGHT nIO-PC-KIT WATTSTOPPER
12	LC	NETWORK CAPABLE LIGHTING CONTROL PANEL, 8-RELAY OUTPUTS, FIELD CONFIGURABLE RELAYS, UNIVERSAL VOLTAGE, WITH 7-DAY ATRONOMIC TIME CLOCK.	ACUTY nLIGHT nRP INTECOB NLT 8FCR MVOLT SM DTC WATTSTOPPER

**LIGHTING CONTROL SYSTEM - SEQUENCE OF OPERATION**

- COORDINATE ALL PROGRAMMING OF INDIVIDUAL SWITCHES WITH THE OWNER'S REPRESENTATIVE DURING INSTALLATION. INCLUDE TIME IN BID PROPOSAL TO MEET WITH THE OWNER'S REPRESENTATIVE AND PROGRAM SWITCH PRESETS, DAILY/WEEKLY AND ANNUAL SCHEDULING PROGRAMS.
- INCLUDE TIME IN BID PROPOSAL FOR TWO RETURN TRIPS TO THE FACILITY AFTER THE SYSTEM HAS BEEN IN USE TO MAKE ADJUSTMENTS TO PROGRAMMING.
- A DETAILED SUBMITTAL FROM THE MANUFACTURER INCLUDING PLAN VIEWS WITH DEVICE LOCATIONS, CABLING REQUIREMENT AND CONTROL DETAILS SHALL BE INCLUDED AS PART OF THE SUBMITTAL REVIEW PROCESS.
- ALL LIGHTING CONTROLS SHALL BE MANUAL ON, AUTOMATIC OFF.
- ALL LUMINAIRES OR GROUPS OF LUMINAIRES SHALL BE CAPABLE OF BEING DIMMED THROUGH THE CONTROL SYSTEM. THE DIMMING CONTROL SYSTEM SUPPLIER SHALL INCLUDE A MINIMUM OF SIX HOURS TO ADJUST THE SYSTEM AFTER THE INITIAL SETUP HAS BEEN COMPLETED. ASSUME TWO HOURS OF SET UP TIME SHALL BE PERFORMED DURING THE EVENING.
- CORRIDORS AND COMMON PUBLIC SPACES SHALL BE CONTROLLED BY A COMBINATION OF MANUAL LOW-VOLTAGE SWITCHES AND SCHEDULING THROUGH THE TIME-CLOCK.
- MISCELLANEOUS SMALLER ROOMS SHALL BE CONTROLLED BY LOCAL WALL MOUNTED OCCUPANCY SENSOR/SWITCH/DIMMERS OR CEILING OCCUPANCY SENSORS AS NOTED ON THE PLANS.
- EACH DIFFERENT TYPE OF LUMINAIRE IN ALL COMMON AREAS SHALL HAVE INDIVIDUAL LIGHTING AND DIMMING CONTROL FOR THE GROUP AND TYPE OF LUMINAIRES AS NOTED ON THE PLANS.

**LUMINAIRE SCHEDULE**

CALLOUT	SYMBOL	DESCRIPTION	MODEL
A	□	RECESSED 2x2 SWITCHABLE LED FLAT PANEL, WHITE ALUMINUM HOUSING, SUITABLE FOR USE IN A 2x2 GRID CEILING, UNIVERSAL INPUT VOLTAGE, 41 MAXIMUM WATTS, SWITCHABLE LUMEN OUTPUT, SWITCHABLE COLOR TEMPERATURE, MINIMUM 80 CRI, 0-10V DIMMING, DIMS TO 10%. SET FIXTURE TO 3300 LUMEN OUTPUT AND 4000K COLOR TEMPERATURE WHEN INSTALLED.	LITHONIA CPANL 2X2 AL01 S5W7 M4 COLUMBIA CB2Z-L540 METALUX 24FPL25CT3
B	□	RECESSED 2x2 LED TROFFER, WHITE STEEL HOUSING, SUITABLE FOR USE IN A 2x2 GRID CEILING, UNIVERSAL INPUT VOLTAGE, 29.8 WATTS, 3300 LUMEN OUTPUT, 40K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING, DIMS TO 10%.	MARK ARCHITECTURAL WHPSPR 2X2 80CRI 40K 3300LM MIN10 MVOLT SWC ZT
C	○	CANDELABRA CHANDELIER, 26" DIAMETER, 13" HEIGHT, STEEL CONSTRUCTION, 120V INPUT, 425W T6 CANDELABRA BULB, E12 BASE, BLACK FINISH, FURNISHED WITH EXTENSION RODS. COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDERING. BULBS: T6 CANDELABRA BULBS, 0.8W LED, 25 LUMEN, 2700K COLOR TEMPERATURE, E12 BASE. FOR ADDITIONAL FIXTURE INFORMATION SEE REFERENCED RETAILER WEBSITE AT: WWW.CRATEANDBARREL.COM	LITHONIA 2BLT2 L33 SDSM GZ10 WH FINELITE HPR LED F 2X 840 DCO SC FC-10W IIONA SMALL BLACK CANDELABRA CHANDELIER LAMP: SATCONUOVO S9176
D	○	BALLAST: DEEP BOWL PENDANT, 18" NOMINAL DIAMETER, ALUMINUM HOUSING, E26 EDISON BASE SOCKET, SUITABLE FOR LED OR INCANDESCENT LAMPS, WHITE INTERIOR FINISH, BLACK EXTERIOR FINISH, ADJUSTABLE LENGTH HIGH STRAIGHT MOUNTING, 120-VOLT INPUT. LAMP: LED EDISON E26 LAMP, 120V, 5W, 4000K COLOR TEMPERATURE, 90 CRI, DIMMABLE. E.C. SHALL COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.	BALLAST: RLM CLASSICS DB1817NC LAMP: SATCONUOVO S12410 APPROVED EQUIVALENTS
E1	⊕	COMBINATION EMERGENCY/EXIT FIXTURE, LED, TOP/BACK/SIDE MOUNTED, STENCIL FACE, WHITE THERMOPLASTIC HOUSING, SINGLE FACE WITH EXTRA FACE PLATE AND COLOR PANEL FOR FIELD CONVERSION TO DOUBLE FACE, RED PANEL, 120/277-VOLT INPUT, WITH NICKEL CADMIUM BACK-UP BATTERY TO PROVIDE 90 MINS OF EMERGENCY POWER. CONNECT FIXTURE AND BATTERY PACK TO AN UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT.	LITHONIA LHQM LED R SURE LITES APC 7 R WILLIAMS EXIT/EMERLED R WHT D
E2	⊕	SAME AS FIXTURE TYPE 'E1' EXCEPT FIXTURE SHALL HAVE HIGH OUTPUT BATTERY OPTION WITH 3W OF REMOTE HEAD CAPACITY.	LITHONIA LHQM LED R HO SURE LITES APC H 7 R WILLIAMS EXIT/EMERLED R WHT RC D
E3	⊕	EXIT SIGN, LED, TOP/BACK/SIDE MOUNTED, STENCIL FACE, WHITE THERMOPLASTIC HOUSING, SINGLE FACE WITH EXTRA FACE PLATE AND COLOR PANEL FOR FIELD CONVERSION TO DOUBLE FACE, RED PANEL, 120/277-VOLT INPUT, KNOCKOUT DIRECTIONAL CHEVRONS, WITH INTEGRAL NICKEL CADMIUM BACK-UP BATTERY TO PROVIDE 90 MINS OF EMERGENCY POWER. CONNECT FIXTURE AND BATTERY PACK TO AN UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT.	LITHONIA LOM S W 3 R MVOLT EL N SURE LITES APX7 R WILLIAMS EXIT EM WHT
E4	□	SQUARE LED REMOTE HEAD LAMPS, TWO LAMPS, 2W EACH LAMP, THERMOPLASTIC, SEALED AND GASKETED W/ETHERPROOF HOUSING, GRAY FINISH, COMPATIBLE WITH FIXTURE TYPE 'E2' FOR BATTERY POWER. CONNECT FIXTURE TO AN UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT.	LITHONIA ERE 5Y1 SQ WP SURE LITES DRHLT WHT HLMV
EM	□	EMERGENCY LED LIGHTING UNIT, MINIMUM 90-MINUTE ILLUMINATION UPON LOSS OF POWER, COMPACT, LOW-PROFILE THERMOPLASTIC HOUSING, 120/277-VOLT INPUT, TWO 15W WHITE LEDS, MAINTENANCE FREE NICKEL CADMIUM BACK-UP BATTERY. FIXTURE CAN BE MOUNTED FROM WALL OR BUILDING STRUCTURE. CONNECT FIXTURE AND BATTERY PACK TO AN UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT.	LITHONIA ELM2L SURE-LITES SEL25 DUAL-LITE EV2
F	□	BLACK CANDELABRA WALL SCONCE, STEEL CONSTRUCTION AND FINISH, 6" DIAMETER WALL PLATE, 3 SOCKET, 425W T6 CANDELABRA BULB, E12 BASE, BLACK FINISH, COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDERING. BULBS: T6 CANDELABRA BULBS, 0.8W LED, 25 LUMEN, 2700K COLOR TEMPERATURE, E12 BASE. FOR ADDITIONAL FIXTURE INFORMATION SEE REFERENCED RETAILER WEBSITE AT: WWW.CRATEANDBARREL.COM	IIONA BLACK CANDELABRA WALL SCONCE LAMP: SATCONUOVO S9176
G	□	SUSPENDED PENDANT MOUNT LINEAR LED ARCHITECTURAL LUMINAIRE, BLACK ALUMINUM CANOPY/HOUSING, WHITE DIE-FORMED REFLECTOR WITH SATIN LENS, DOWNLIGHT ONLY, UNIVERSAL VOLTAGE INPUT, 7.2 WATTS PER FOOT, HIGH OUTPUT 750 LUMENS PER FOOT, 4000K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING, DIMS TO 1%, SUSPEND WITH AIRCRAFT CABLE FROM JUNCTION BOX. COORDINATE FINAL MOUNTING HEIGHT IN FIELD WITH STRUCTURE AND OTHER UTILITIES/DEVICES. *** DENOTES FIXTURE LENGTH IN FEET. ORDER EACH FIXTURE TO SPECIFIED LENGTH ON DRAWINGS AS ONE CONTINUOUS ROW.	PINNACLE EDGE EX2D A N 840HO ## AC JB U OL2 1 0 BL TC
H	○	6" ROUND RECESSED LED DOWNLIGHT, STEEL HOUSING, SUITABLE FOR USE IN A 2x2 GRID CEILING AND GYPSUM CEILING, SEMI-SPECULAR FINISH, UNIVERSAL INPUT VOLTAGE, 34.8 WATTS, 3000 LUMEN OUTPUT, 4000K COLOR TEMPERATURE, MINIMUM 80 CRI, 0-10V DIMMING, DIMS TO 10%.	LITHONIA LDNG 40 30 L06 AR LSS MVOLT GZ10 (FLANGE COLOR)
J	□	SURFACE MOUNT 4" LED SWITCHABLE STRIP LIGHT, WHITE STEEL HOUSING, DIFFUSE ACRYLIC LENS, UNIVERSAL VOLTAGE INPUT, 43.4 MAXIMUM WATTS, SWITCHABLE LUMEN OUTPUT, SWITCHABLE COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING.	LITHONIA CSS L48 AL03 MVOLT S5W3 80CRI
K1	○	LED RGBW RIBBON TAPE LIGHT, UNIVERSAL VOLTAGE INPUT, 4.3 WATTS PER FOOT, 219 LUMEN PER FOOT, 96W DMX DIMMABLE DRIVER, WITH TOUCHSCREEN DMX CONTROLLER, WITH NARROW INSTALLATION CHANNEL, WET LOCATION RATED. *** DENOTES OVERALL DESIRED LENGTH. COORDINATE EXACT LENGTHS WITH ARCHITECT PRIOR TO ORDERING. MAXIMUM LENGTH PER DRIVER IS 26'. ACCOUNT FOR ADDITIONAL DRIVERS AS REQUIRED FOR DESIRED OVERALL LENGTHS.	LED TAPE: LUMINII LLRGBW SO SL NC ### CHANNEL: KSC-## DRIVER: PSDMX X366 24 CONTROLLER: TSDMX-E
K2	○	SAME AS FIXTURE TYPE 'K1' EXCEPT TAPE LIGHT SHALL NOT REQUIRE CHANNEL FOR INSTALLATION.	LED TAPE/DRIVER/CONT.: SAME AS FIXTURE 'K1'
L	□	4" ARCHITECTURAL INDIRECT WALL MOUNT VANITY LIGHT, STEEL HOUSING, ALUMINUM END CAPS, 120V INPUT, 20 WATTS, 800 LUMENS PER FOOT OUTPUT, 4000K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING, DIMS TO 0.1%.	MARK ARCHITECTURAL PILLAR 7 SERIES PLLW7 LSL 4FT MSL4 80CRI 40K 800LM/FT DARK 120 BKSG ZT SCFP
M	○	4" LED PENDANT CYLINDER, BLACK ALUMINUM HOUSING AND ACCENT RING, OPEN TRIM STYLE, MEDIUM DISTRIBUTION, UNIVERSAL VOLTAGE INPUT, 23.9 WATTS, 2000 LUMEN OUTPUT, 4000K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING. *** DENOTES PENDANT STEM LENGTH. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ORDERING.	WILLIAMS 4CR L20 8 40 BLK DIM UNV O M CS TO PM##
N	□	6" TRACK LIGHTING SYSTEM, ALUMINUM T BEAM CHANNEL, SINGLE CIRCUIT, 120V INPUT, BLACK RAIL AND ACCESSORIES. ORDER TRACK SYSTEM WITH ALL REQUIRED COMPONENTS FOR MOUNTING OF THREE FIXTURES ON EACH TRACK. FIXTURE: 2-1/2" VERTICAL CYLINDER TRACK FIXTURE, 360 HORIZONTAL COVERAGE, DIMMABLE, FLOOD DISTRIBUTION, BLACK IN COLOR.	TRACK: JUNO TRAC-MASTER T-6FT-BL FIXTURE: JUNO TRACK GZ10 80CRI DMX BL
P	○	6" LED PENDANT CYLINDER, BLACK ALUMINUM HOUSING AND ACCENT RING, OPEN TRIM STYLE, MEDIUM DISTRIBUTION, UNIVERSAL VOLTAGE INPUT, 23.9 WATTS, 300 LUMEN OUTPUT, 4000K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING. *** DENOTES PENDANT STEM LENGTH. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ORDERING.	WILLIAMS 6CR L30 8 40 BLK DIM UNV O M CS TO PM##





MATERIAL SCHEDULE		
SYMBOL	DESCRIPTION	MANUFACTURER
COVER PLATES	ALL COVER PLATES FOR DEVICES IN FINISHED SPACES SHALL BE THERMOPLASTIC CONSTRUCTION. THE DEVICE COVERS IN FINISHED SPACES SHALL BE WHITE UNLESS SPECIFIED OTHERWISE. COVERPLATES IN UNFINISHED SPACES SHALL BE GALVANIZED STEEL CONSTRUCTION. COVERPLATES IN KITCHEN AREA SHALL BE STAINLESS STEEL CONSTRUCTION. FURNISH AND INSTALL PRE-PRINTED LABELS ON ALL MULTI-GANG SWITCH PLATES OR SWITCHES CONTROLLING LOADS FROM REMOTE AREAS. THE LABELS SHALL INDICATE THE LOAD CONTROLLED. LABELS SHALL BE A CLEAR BACKGROUND WITH WHITE LETTERING. REVIEW LABELING WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.	HUBBELL LEVITON PASS & SEYMOUR COOPER
Φ	DUPLX RECEPTACLE, TAMPER RESISTANT, SPECIFICATION GRADE, CLEAR TERMINAL WITH 6" STRANDED WIRE LEADS, 125 VOLT, 20 AMP, TAMPER RESISTANT, 3 WIRE GROUNDING, STRAIGHT BLADE, NEMA 5-20R. *#F# DENOTES TO INSTALL AT #F# A.F.F.; 'C' = CEILING MOUNTED; 'A' = ABOVE COUNTER	HUBBELL 5300 SERIES LEVITON PASS & SEYMOUR COOPER
Φ	DOUBLE DUPLX RECEPTACLE, TAMPER RESISTANT, TWO DUPLX RECEPTACLES IN ONE COMMON BOX, STRAIGHT BLADE, 20 AMPERE, SPECIFICATION GRADE, 3 WIRE GROUNDING TYPE, NEMA 5-20R. *#F# DENOTES TO INSTALL AT #F# A.F.F.; 'A' = ABOVE COUNTER	2 EACH HUBBELL 5300 LEVITON PASS & SEYMOUR COOPER
Φ <sub>G</sub>	GROUND FAULT INTERRUPTING DUPLX RECEPTACLE, TAMPER RESISTANT, STRAIGHT BLADE, 20 AMPERE, SPECIFICATION GRADE, TAMPER RESISTANT, 3 WIRE GROUNDING TYPE, TEST AND RESET BUTTONS IN THE FACE, NEMA 5-20R. *#F# DENOTES TO INSTALL AT #F# A.F.F.; 'A' = ABOVE COUNTER	HUBBELL 5300 LEVITON PASS & SEYMOUR COOPER
Φ <sub>G</sub>	DOUBLE DUPLX GROUND FAULT INTERRUPTING RECEPTACLE, TAMPER RESISTANT, TWO DUPLX RECEPTACLES IN ONE COMMON BOX, STRAIGHT BLADE, 20 AMPERE, SPECIFICATION GRADE, TAMPER RESISTANT, 3 WIRE GROUNDING TYPE, TEST AND RESET BUTTONS IN THE FACE, NEMA 5-20R. *#F# DENOTES TO INSTALL AT #F# A.F.F.; 'A' = ABOVE COUNTER	2 EACH HUBBELL 5300 LEVITON PASS & SEYMOUR COOPER
Φ <sub>GW</sub>	DUPLX GROUND FAULT WEATHERPROOF RECEPTACLE, STRAIGHT BLADE, 20-AMPERE SPECIFICATION GRADE, 3-WIRE GROUNDING TYPE, IMPACT RESISTANT THERMOPLASTIC FACE, TEST AND RESET BUTTONS IN FACE, FEDERAL SPECIFICATION AND U.L. LISTED, 2003 U.L. 943 COMPLIANT WITH WEATHERPROOF BOX AND GASKETED COVERPLATE, NEMA 1 RATED "WHILE-IN-USE".	HUBBELL 5300 WITH IN-USE COVER LEVITON PASS & SEYMOUR COOPER
Φ <sub>U</sub>	NORMAL POWER DUPLX RECEPTACLE, TAMPER RESISTANT, TWO USB TYPE 2.0 PORTS, 3 AMPS, 5-VOLT DC, SPECIFICATION GRADE, CLEAR TERMINAL WITH 6" STRANDED WIRE LEADS, 125 VOLT, 20 AMP, TAMPER RESISTANT, 3 WIRE GROUNDING, STRAIGHT BLADE, NEMA 5-20R. COORDINATE RECEPTACLE COLOR WITH ARCHITECT AND BAR FINISH.	HUBBELL USB15X2 LEVITON PASS & SEYMOUR COOPER
⊙	KITCHEN EQUIPMENT SPECIAL RECEPTACLE. SEE KEYED NOTES ON ENLARGED KITCHEN PLAN ON SHEET E3.0 FOR SPECIFIC RECEPTACLE SIZING AND ADDITIONAL INFORMATION.	HUBBELL 9400 SERIES LEVITON PASS & SEYMOUR COOPER
⊙	JUNCTION BOX. E.C. SHALL FURNISH AND INSTALL BACK BOX AND CONDUIT ROUGH-IN TO EQUIPMENT FURNISHED BY OTHERS.	
⊙ <sub>M</sub>	MANUAL STARTER, FRACTIONAL HORSEPOWER TYPE, NEMA 1 ENCLOSURE, 120-VOLT, 20-AMPERE, WITH MELTING THERMAL OVERLOADS SIZED PER MOTOR NAMEPLATE, UL LISTED.	SQUARE 'D' CLASS 2510
⊙ <sub>RT</sub>	REMOTE EQUIPMENT TOGGLE SWITCH WITH INDICATOR LIGHTS. COORDINATE WITH OWNER AND EQUIPMENT MANUFACTURER FOR FINAL LOCATION, MOUNTING, AND CONTROL REQUIREMENTS.	FURNISHED WITH FOOD WARMERS
⊙	DISCONNECT SWITCH, 600-VOLT, NON-FUSIBLE, HEAVY DUTY, LOCKABLE IN OFF POSITION, PROVIDE GROUND LUG, UL LISTED, COORDINATE ENCLOSURE NEMA TYPE WITH LOCATION SIZE AND QUANTITY OF POLES SHALL MATCH EQUIPMENT DEVICE IS SERVING.	SQUARE 'D' CLASS 3110
⊙	ELECTRICAL CONNECTION TO EQUIPMENT, SIZE CONNECTION PER THE NATIONAL ELECTRICAL CODE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.	
MDP	NEW SWITCHBOARD, 208/120 VOLT, 3-PHASE, 4 WIRE, HINGED COVER, COPPER BUS, COPPER GROUND BUS AND NEUTRAL BUS. SEE PLANS AND SCHEDULE FOR ADDITIONAL INFORMATION. FURNISH AND INSTALL INTEGRAL 240KA TVSS, 100% RATED MAIN CIRCUIT BREAKER, ENERGY REDUCTION MAINTENANCE SWITCH (ERMS) AND DIGITAL POWER QUALITY METER.	SQUARE 'D' HLINE SERIES SIEMENS ABB EATON
P1,P2,K	BRANCH PANEL, 208/120 VOLT, 3-PHASE, 4 WIRE, HINGED COVER, COPPER BUS, COPPER GROUND BUS AND NEUTRAL BUS. SEE PLANS AND SCHEDULE FOR ADDITIONAL INFORMATION.	SQUARE 'D' NQ SERIES SIEMENS ABB EATON
RE	EXISTING 120/240 SINGLE PHASE BRANCH CIRCUIT PANEL TO BE REMOVED AND REINSTALLED IN NEW LOCATION TO SUPPORT EXISTING RANGE LIGHTING AND OTHER ASSOCIATED LOADS. SEE PLANS AND SCHEDULE FOR ADDITIONAL INFORMATION.	EXISTING TO BE REINSTALLED
T-A	DRY-TYPE 75KVA, 208V PRIMARY, 120/240V, SINGLE-PHASE, 3-WIRE SECONDARY VOLTAGE STEP-UP TRANSFORMER WITH STEEL VENTED HOUSING, AND COPPER WINDINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.	SQUARE 'D' SIEMENS ABB EATON
SD	ELECTRICAL SERVICE ENCLOSED CIRCUIT BREAKER DISCONNECT, NEMA 3R ENCLOSURE, 208/120 VOLT, 3-PHASE, 4-WIRE.	SQUARE 'D' SIEMENS ABB EATON
HT-1	HEAT TAPE, SELF-REGULATING, 120-VOLT, 5-WATTS PER FOOT RATING. INCLUDE POWER END CONNECTION, END SEAL KIT, ALUMINUM TAPE AND ALL ACCESSORIES FOR A COMPLETE SYSTEM. ALL INSTALLATIONS ON PIPING AND ASSOCIATED FITTINGS SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH THE INSTALLING PIPING CONTRACTOR PRIOR TO ORDER TO CONFIRM EXACT LENGTH OF HEAT TAPE TO INSTALL.	RAYCHEM OR APPROVED EQUAL
CT	UTILITY CURRENT TRANSFORMER CABINET WITH MAIN BREAKER SERVICE DISCONNECT SECTION, SIZED AND OF MANUFACTURER APPROVED BY POWER UTILITY COMPANY (AMEREN), NEMA-3R RATED.	APPROVED BY AMEREN
METER	UTILITY METER CABINET, SIZED AND OF MANUFACTURER APPROVED BY POWER UTILITY COMPANY.	APPROVED BY AMEREN
\$ <sup>F</sup>	CEILING FAN CONTROL SWITCH WITH TIMER AND HI/OFF SETTINGS. MOUNT TO EACH COLUMN ON SIDE WITH CONTROLLED FAN IN EACH BAY.	HUBBELL LUTRON
⊗	ALUMINUM TELE-POWER POLE, TWO COMPARTMENT, COORDINATE RECEPTACLE REQUIREMENTS AND POLE LOCATIONS WITH PLANS AND KITCHEN EQUIPMENT INSTALLER PRIOR TO RELEASE AND ROUGH-IN.	LEGRAND AMDT SERIES HUBBELL LEVITON
⊗ <sub>R</sub>	TOP TRACER RANGE CAMERAS, FURNISHED AND INSTALLED BY TOP TRACER SYSTEM INSTALLER. E.C. SHALL PROVIDE ROUGH-IN OF CONDUIT AND BACK BOXES AS REQUIRED. COORDINATE MOUNTING REQUIREMENTS WITH TOP TRACER SYSTEM INSTALLER PRIOR TO ROUGH-IN.	TOP TRACER FURNISHED AND INSTALLED

**GENERAL ELECTRICAL NOTES:**

- ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRICAL CODE, THE INTERNATIONAL BUILDING CODE, AMERICANS WITH DISABILITIES ACT ACCESSIBILITY AND INTERNATIONAL ENERGY CONSERVATION CODE. THE AUTHORITY HAVING JURISDICTION SHALL HAVE THE FINAL DECISION ON ALL INSTALLATIONS AND PRACTICES.
- REFER TO THE MATERIAL SCHEDULE, LUMINAIRE SCHEDULE, AND OTHER ASSOCIATED SCHEDULES AND NOTES FOR MANUFACTURERS AND DESCRIPTIONS OF ELECTRICAL MATERIALS, DEVICES, AND EQUIPMENT.
- ALL ELECTRICAL CONDUCTORS SHALL BE STRANDED COPPER WITH TYPE THHN-THWN INSULATION UNLESS SPECIFICALLY NOTED OTHERWISE. THE MINIMUM WIRE SIZE SHALL BE #12 AWG.
- CIRCUIT IDENTIFICATION NUMBERS ARE TO COORDINATE CIRCUITING WITH THE ASSOCIATED PANEL. THE CIRCUIT NUMBERS SHALL BE FIELD MODIFIED TO BALANCE THE ELECTRICAL LOAD ON ALL PHASES AS EVENLY AS POSSIBLE.
- ALL CIRCUITS REQUIRING NEUTRAL CONDUCTORS SHALL HAVE DEDICATED NEUTRALS. SHARED NEUTRALS ARE NOT ALLOWED.
- A GREEN GROUNDING CONDUCTOR SHALL BE CONNECTED TO ALL LOADS SERVED. THE CONDUCTOR SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE TO ACCOMMODATE THE LOAD SERVED. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT.
- ALL BUILDING WIRING SHALL BE INSTALLED IN CONDUIT. MINIMUM SIZE SHALL BE 3/4".
- ALL CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILINGS, ETC. WHERE POSSIBLE. ALL CONDUIT ROUTED EXPOSED SHALL BE A PRE-MANUFACTURED SURFACE RACEWAY (IE. WIREMOLD OR EQUAL) WITH THE EQUIVALENT USABLE AREA OF THE SUBSTITUTED CONDUIT. EXPOSED SURFACE RACEWAY SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM ARCHITECT/ENGINEER. ALL EXPOSED SURFACE RACEWAY SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO WALLS AND CEILINGS. SURFACE WIREWAY SHALL BE FACTORY OR FIELD PAINTED TO MATCH MOUNTING SURFACE.
- COORDINATE THE EXACT LOCATION OF ALL DEVICES LOCATED ABOVE OR BELOW COUNTERS, ETC. WITH OTHER TRADES ARCHITECTURAL ELEVATIONS, AND REVIEWED SUBMITTALS PRIOR TO ROUGH-IN.
- ALL CUTTING AND PATCHING REQUIRED FOR CONDUITS, DEVICES OR OTHER ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ALL PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH AN APPROVED FIRE-RATED SYSTEM EQUAL TO OR EXCEEDING THE RATING OF THE MATERIAL PENETRATED.
- COORDINATE LOCATIONS OF ALL ELECTRICAL ITEMS INCLUDING LIGHTING FIXTURES, CEILING MOUNTED DEVICES (OCCUPANCY SENSORS, FIRE ALARM DETECTORS, SPEAKERS ETC.) WITH EACH OTHER AND WITH ALL SPRINKLER HEADS, AIR SUPPLY DIFFUSER AND AIR RETURN GRILLES. ALL CEILING DEVICES SHALL BE CENTERED IN CEILING TILE.
- COORDINATE ALL MOUNTING OF ELECTRICAL MATERIALS, EQUIPMENT, AND DEVICES REQUIRED FOR EQUIPMENT AND DEVICES SUPPLIED BY OTHERS. ELECTRICAL ITEMS SHALL BE MOUNTED TO AVOID ANY INTERFERENCE WITH OTHER EQUIPMENT OPERATION OR ACCESS. ALL INSTALLATIONS OF ELECTRICAL ITEMS FOR EQUIPMENT/DEVICES SUPPLIED BY OTHERS SHALL BE COORDINATED AND APPROVED BY SUPPLYING CONTRACTOR PRIOR TO ROUGH-IN.
- BOXES LOCATED ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" OR A FIRE RATED MATERIAL EQUAL TO OR GREATER THAN THE FIRE WALL MATERIAL RATING SHALL BE INSTALLED AROUND THE BOX. BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF:
- FLUSH MOUNT ALL TOGGLE SWITCHES AND FIRE ALARM MANUAL PULL STATIONS 42" ABOVE THE FINISHED FLOOR TO THE CENTER OF THE DEVICE UNLESS OTHERWISE NOTED. MOUNT FIRE ALARM VISUAL AND AUDIBLE/VISUAL UNITS + 80" ABOVE FINISHED FLOOR OR 0" BELOW CEILING, WHICHEVER IS LOWER.
- FLUSH MOUNT ALL RECEPTACLES AND TELECOMMUNICATIONS OUTLETS 18" ABOVE THE FINISHED FLOOR TO THE CENTER OF THE DEVICE UNLESS OTHERWISE NOTED.
- 'A' SUBSCRIPT NEXT TO A DEVICE INDICATES INSTALLATION ABOVE COUNTER.
- LINE TYPE KEY:  
a. \_\_\_\_\_ NEW WORK BY THE ELECTRICAL CONTRACTOR  
b. \_\_\_\_\_ NEW WORK BY OTHERS OR EXISTING WORK TO REMAIN  
c. - - - - - EXISTING WORK TO BE DEMOLISHED BY THE ELECTRICAL CONTRACTOR
- INDICATES THE TYPE OF CONDUCTORS IN THE CONDUIT. VERIFY QUANTITY FOR EACH SPECIFIC LOAD SERVED.
- CONDUCTOR TICK MARKS INDICATED ON CONDUITS DO NOT REPRESENT THE QUANTITY OF CONDUCTORS IN THE CONDUIT, BUT THE TYPE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE REQUIRED QUANTITY OF GROUND, NEUTRAL, PHASE IN EACH CONDUIT.
- ALL REQUEST FOR CHANGE PROPOSALS ON THIS PROJECT SHALL INCLUDE A BREAKDOWN OF MATERIALS, LABOR, AND SUBCONTRACTORS, WITH SUFFICIENT DETAIL FOR ENGINEER EVALUATION. EACH SEPARATE PROPOSAL REQUEST ITEM SHALL INCLUDE SEPARATE MATERIALS AND LABOR BREAKDOWNS. SUPPLIER BACK-UP PRICING SHALL BE INCLUDED ON THE SUPPLIERS' LETTERHEAD. ALL LABOR UNITS ASSOCIATED WITH THE NEW MATERIAL INSTALLATIONS SHALL NOT EXCEED 75% OF THE NECA 1 LABOR RATES, WITHOUT SPECIFIC PERMISSION.

**GENERAL ELECTRICAL DEMOLITION NOTES:**

- THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED FOR THIS PROJECT. THEY ARE NOT INTENDED TO INDICATE THE LOCATION OF ALL DEVICES, JUNCTION BOXES, CONDUITS, ETC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY ALL RELEVANT EXISTING CONDITIONS.
- DISCONNECT ALL ELECTRICAL SYSTEMS AS REQUIRED IN FLOORS, WALLS, CEILINGS AND OTHER STRUCTURES SCHEDULED FOR DEMOLITION.
- ELECTRICAL ITEMS (i.e. LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC.) REMOVED AND NOT RELOCATED, REMAIN THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN (i.e. FOR MAINTENANCE PROPOSES).
- PROVIDE TEMPORARY WIRING AND ASSOCIATED CONNECTIONS AS REQUIRED TO MAINTAIN EXISTING SYSTEMS OPERATION DURING CONSTRUCTION. ALL EXISTING ELECTRICAL EQUIPMENT MUST REMAIN OPERATIONAL DURING CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF POWER TO CIRCUITS, FEEDERS, PANELS, ETC. COORDINATE ALL OUTAGES WITH OWNER.
- PROTECT WALLS, CEILINGS, FLOORS, AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN AND ARE EXPOSED DURING SELECTIVE DEMOLITION OPERATIONS.
- DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED IN THESE NOTES.
- WHERE LIGHTS, SWITCHES, RECEPTACLES, OR OTHER ELECTRICAL ITEMS, ARE BEING REMOVED ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANEL BOARD OR FEEDER JUNCTION BOX SERVING THE DEVICE SHALL ALSO BE REMOVED, UNLESS THE CONDUIT CAN BE REUSED FOR NEW CONDUCTORS. EXISTING OPENINGS IN WALLS TO REMAIN SHALL BE PATCHED WITH DRYWALL, TAPED AND PAINTED TO MATCH EXISTING CONDITIONS. BLANK COVERPLATES OVER UNUSED OPENINGS IS ARE NOT ALLOWED. ALL ABANDONED CONDUITS EXTENDING FROM WALLS ABOVE CEILINGS SHALL BE CUT OFF FLUSH WITH THE STUD AND PLUGGED.
- ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC. SHALL ALSO BE REMOVED. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE, IF NOT AFFECTED BY OTHER CONSTRUCTION.
- THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING AND INSTALLING NEW ELECTRICAL ITEMS.
- EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
- EQUIPMENT/DEVICE REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CIRCUIT TO REMAINING EQUIPMENT.
- PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY.
- TRANSPORT DEMOLISHED MATERIALS FROM OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.
- REMOVE, STORE, CLEAN, REINSTALL, RECONNECT, AND MAKE OPERATIONAL ALL COMPONENTS INDICATED FOR RELOCATION.
- DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTION TO EXISTING UTILITIES AS CERTIFIABLE BY OWNER AND AUTHORITY HAVING JURISDICTION.
- SEAL ALL UNUSED OPENINGS DUE TO REMOVAL OF ELECTRICAL EQUIPMENT TO MATCH EXISTING CONSTRUCTION. ALL UNUSED OPENINGS IN FIRE RATED WALLS SHALL BE SEALED WITH A UL LISTED FIRE SEALING SYSTEM TO MATCH THE EXISTING FIRE RATING.
- PROPERLY CLOSE ALL UNUSED OPENINGS IN ELECTRICAL ENCLOSURES AND BOXES DUE TO REMOVAL OF ELECTRICAL MATERIALS.
- CONTRACTOR SHALL REMOVE AND INSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR. CONTRACTOR SHALL RECORD EXISTING DAMAGE PRIOR TO BEGINNING REMOVAL.
- BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCB'S AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
- FLUORESCENT LAMPS CONTAIN MERCURY AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
- WHERE TELECOMMUNICATIONS OUTLETS (VOICE/DATA/CATV ETC.) ARE BEING REMOVED, ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE TERMINATION EQUIPMENT SERVING THE DEVICE SHALL ALSO BE REMOVED.
- WHERE LOW-VOLTAGE SYSTEM CABLING (VOICE/DATA/CATV ETC.) IS EXISTING TO REMAIN, AND SUPPORT METHODS ARE BEING REMOVED, CABLING MUST BE PROPERLY SUPPORTED AND PROTECTED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES. PROVIDE NEW PERMANENT SUPPORT OF ANY CABLING THAT IS NOT OF SUFFICIENT LENGTH FOR EXISTING ROUTE AND A MODIFIED ROUTE IS NECESSARY.



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**PEORIA PARK DISTRICT  
 GOLF PRACTICE FACILITY ADDITION**  
 7815 N. RADNOR ROAD, PEORIA ILLINOIS 61615  
 DKA PROJECT NO: 22-051



DATE: 4/9/2024

KEY PLAN:

SHEET STATUS: APRIL 9, 2024  
**BIDDING AND PERMIT  
 SET**

NO.	DESCRIPTION	DATE
1	ADD #1	04/16/24
2	ADD #3	04/22/24

SHEET TITLE:  
**GENERAL NOTES &  
 DETAILS**

SHEET NUMBER:

**E5.0**