## One-Line Diagram Device Legend

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td>Electrical Panelboard</td>
</tr>
<tr>
<td><img src="image2" alt="Diagram" /></td>
<td>Dry Type Transformer</td>
</tr>
<tr>
<td><img src="image3" alt="Diagram" /></td>
<td>Circuit Breaker</td>
</tr>
<tr>
<td><img src="image4" alt="Diagram" /></td>
<td>Fuse</td>
</tr>
<tr>
<td><img src="image5" alt="Diagram" /></td>
<td>Fixed Disconnect Switch</td>
</tr>
<tr>
<td><img src="image6" alt="Diagram" /></td>
<td>Current Transformer (C)</td>
</tr>
<tr>
<td><img src="image7" alt="Diagram" /></td>
<td>Electrical Meter</td>
</tr>
</tbody>
</table>

## Power Device Legend

- **Surface Mounted Panelboard, Power and Lighting**: Symbol with a line through it denotes mounted above 18".
- **Panelboard, Power and Lighting**: Symbol with a line through it denotes mounted above 18".
- **Circuit Breaker**: Symbol with a line through it denotes mounted above 18".
- **Fuse**: Symbol with a line through it denotes mounted above 18".
- **Fixed Disconnect Switch**: Symbol with a line through it denotes mounted above 18".
- **Current Transformer (C)**: Symbol with a line through it denotes mounted above 18".

## Wiring Device Legend

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image8" alt="Diagram" /></td>
<td>Impulse Transformer</td>
</tr>
<tr>
<td><img src="image9" alt="Diagram" /></td>
<td>Circuit Breaker</td>
</tr>
<tr>
<td><img src="image10" alt="Diagram" /></td>
<td>Fuse</td>
</tr>
<tr>
<td><img src="image11" alt="Diagram" /></td>
<td>Fixed Disconnect Switch</td>
</tr>
<tr>
<td><img src="image12" alt="Diagram" /></td>
<td>Current Transformer (C)</td>
</tr>
<tr>
<td><img src="image13" alt="Diagram" /></td>
<td>Electrical Meter</td>
</tr>
</tbody>
</table>

## Mounting Heights

- **10'-0"**: Emergency Battery Units (or 1' Below Ceiling)
- **3'-0" to 5'-0":** Fire Alarm Audible Alarms Signals
- **3'-0" to 6'-0":** Fire Alarm Visual Signals
- **3'-0"**: Top of Electrical Panel Board / Switch / Power, Pullstations, Etc.
- **3'-0" to 6'-0":** Top of Electrical Panel Board / Switch / Power, Pullstations, Etc.
- **6'-6":** Top of Wall Mounted Devices with Panel, Switches, Etc.

## Abbreviations

- **AMP**: Amperes
- **PG**: Panel Board
- **C**: Current Transformer
- **MC**: Mechanical Contractor
- **CB**: Circuit Breaker
- **NF**: Non-Fused
- **EG**: Electrical Guardian
- **GFI**: Ground Fault Interrupter
- **WP**: Weatherproof
- **NL**: Night Light
- **VB**: Voltage Board
- **NL**: Night Light
- **CW**: Control Wire
- **AHG**: Architectural Lighting
- **AVE**: Automatic Visualization Equipment
- **WAP**: Weatherproof Accessory Panel
- **CO**: Panel Board, Power and Lighting
- **DR**: Dry Type Transformer
- **PC**: Panel Board, Power and Lighting
- **EL**: Electrical Panelboard
- **PL**: Panel Board, Power and Lighting
- **RT**: Reel Cord Schedule
- **Z**: Denotes the fuse size (NF = Non-Fused)
- **X**: Denotes the fuse size (NF = Non-Fused)
- **Y**: Denotes the fuse size (NF = Non-Fused)
- **Z**: Denotes the fuse size (NF = Non-Fused)
- **P**: Panel Board, Power and Lighting

## Symbol List Notes

- **Description**: Symbols are used to indicate the presence of specific devices or equipment in the design.
- **Coordination**: Symbols should be coordinated with other plans and drawings to ensure a complete and accurate representation.
- **Coordination Height**: Symbols should be coordinated with architectural drawings to ensure proper placement.

## Applicable Codes

- **ADA**: American Disabilities Act
- **CSA**: Canadian Standards Association
- **IEC**: International Electrotechnical Commission
- **NFPA**: National Fire Protection Association
- **OSHA**: Occupational Safety and Health Administration
- **UL**: Underwriters Laboratories
- **USCG**: United States Coast Guard
- **AISC**: American Institute of Steel Construction

**Readers should refer to the NEC (National Electrical Code) and the NFPA 70 (National Electric Code) for the latest codes and standards.**
## Lighting Fixture Schedule

### Types of Fixtures

<table>
<thead>
<tr>
<th>Type</th>
<th>Symbol</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Catalog No.</th>
<th>Lamps</th>
<th>Volts</th>
<th>QTY</th>
<th>Total Wattage</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>S</td>
<td>Surface mounted lighting fixture with black surface mounted LED driver and ballast</td>
<td>BEGA</td>
<td>VAP-26L-U-HF-G-W-30</td>
<td>1</td>
<td>277V</td>
<td>26</td>
<td>26W</td>
<td>Surface</td>
</tr>
<tr>
<td>Surface</td>
<td>S</td>
<td>Wall mounted LED up/down with acrylic lens and UL listed for wet locations</td>
<td>BEGA</td>
<td>WALL MOUNTED LED UP/DOWN WITH ACRYLIC LENS AND UL LISTED FOR WET LOCATIONS</td>
<td>1</td>
<td>277V</td>
<td>22</td>
<td>22W</td>
<td>Surface</td>
</tr>
<tr>
<td>Surface</td>
<td>S</td>
<td>Wall mounted elevator pit LED jelly with white housing, NICAD battery and 120V/240V lamp and ballast</td>
<td>BEGA</td>
<td>WALL MOUNTED ELEVATOR PIT LED JELLY WITH WHITE HOUSING, NICAD BATTERY AND 120V/240V LAMP AND BALLAST</td>
<td>1</td>
<td>277V</td>
<td>22</td>
<td>22W</td>
<td>Surface</td>
</tr>
<tr>
<td>Surface</td>
<td>S</td>
<td>Ceiling mounted linear LED wall wash fixture with 0-10V dimming</td>
<td>BEGA</td>
<td>WALL MOUNTED LED WALL WASH FIXTURE WITH 0-10V DIMMING AND LIGHTING FIXTURE SCHEDULE - CONTINUED</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Lighting Control Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>Symbol</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Catalog No.</th>
<th>Lamps</th>
<th>Volts</th>
<th>QTY</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital</td>
<td>D</td>
<td>Digital control</td>
<td>LUMINARIA</td>
<td>LUMINARIA</td>
<td>1</td>
<td>277V</td>
<td>45</td>
<td>45W</td>
</tr>
</tbody>
</table>

### Notes

1. Verify all fixture types and open relays prior to amendments. Cross-reference with schedule for the correct type and manufacturer. **NOTES:**
2. Verify the weight of all suspended fixtures with the strain relief or bolt before installation. **NOTES:**
3. All fixture location changes shall be made throughout the building interior. **NOTES:**
ELECTRICAL GENERAL NOTES

1. ALL PENETRATIONS THROUGH FLOORS SHALL HAVE A CLOSING DEVICE AS PERMITTED IN LOCAL BUILDING CODES. THE INSTALLATION OF A CLOSING DEVICE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IN EVERY CASE, THE CONSTRUCTION OF THE CLOSING DEVICE SHALL BE SUCH THAT THE RESULTING GAP NEVER EXCEEDS 1/8 INCH. A SEALANT OF NON-CRACKING POLYURETHANE OR SIMILAR CAULK OR EQUIVALENT TO 3M, T&B OR PANDUIT LOCKING FORK CRIMP TERMINALS WITH NYLON CAPS SHALL BE USED IN INDOOR EXPOSED RACEWAY.

2. INSTALLATION OF ALL ELECTRICAL WORK INDICATED ON ALL ELECTRICAL DRAWINGS AND SPECIFICATIONS IS REQUIRED. DIFFERENCES BETWEEN SPECIFICATIONS AND DRAWINGS MAY EXIST. ALL WORK PERFORMED MUST BE IN ACCORDANCE WITH THE INTERNATIONAL ELECTRICAL CODE (NEC). DRAWINGS ARE DIAGRAMMATIC AND DEFINE THE INTENT OF THE WORK. DRAWINGS AND CONTAINED IN THE SPECIFICATIONS (UNLESS OTHERWISE NOTED) ARE APPLICABLE. ALL WORK PERFORMED MUST BE IN ACCORDANCE WITH THE NEC AND THE ENGINEER.

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4. ELECTRICAL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS FOR EXISTING PROJECT CONDITIONS INDICATED ARE BASED ON FIELD OBSERVATION, EXISTING DESIGN / CONSTRUCTION DOCUMENTS AND REFERRED TO AS A SINGLE TRADE DRAWING UNLESS SPECIFICALLY NOTED. WORK OF ALL TRADES.

5. SPACE ABOVE HUNG CEILINGS USED AS A PLENUM FOR THE RETURN OF DUCTS, DUCTS AND THEIR OVERCURRENT PROTECTION DEVICES.

6. INSTALLATION OF ALL ELECTRICAL WORK INDICATED ON ALL ELECTRICAL DRAWINGS AND SPECIFICATIONS IS REQUIRED. DIFFERENCES BETWEEN SPECIFICATIONS AND DRAWINGS MAY EXIST. ALL WORK PERFORMED MUST BE IN ACCORDANCE WITH THE INTERNATIONAL ELECTRICAL CODE (NEC). DRAWINGS ARE DIAGRAMMATIC AND DEFINE THE INTENT OF THE WORK. DRAWINGS AND CONTAINED IN THE SPECIFICATIONS (UNLESS OTHERWISE NOTED) ARE APPLICABLE. ALL WORK PERFORMED MUST BE IN ACCORDANCE WITH THE NEC AND THE ENGINEER.

7. CONTRACTOR SHALL PROVIDE ADDITIONAL CONTRACTOR SHOP DRAWINGS TO THE ARCHITECT TO BE APPROVED AND SUBMITTED TO THE OWNER OR PROJECT. ALL WORK PERFORMED MUST BE IN ACCORDANCE WITH THE INTERNATIONAL ELECTRICAL CODE (NEC). DRAWINGS ARE DIAGRAMMATIC AND DEFINE THE INTENT OF THE WORK. DRAWINGS AND CONTAINED IN THE SPECIFICATIONS (UNLESS OTHERWISE NOTED) ARE APPLICABLE. ALL WORK PERFORMED MUST BE IN ACCORDANCE WITH THE NEC AND THE ENGINEER.

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9. SUBCONTRACTORS (PLUMBING, MECHANICAL, ELECTRICAL, ETC.) ARE SUBMITTED IN QUANTITY TO ALLOW DISTRIBUTION TO ARCHITECT (1), OWNER (2), SUBCONTRACTORS (PLUMBING, MECHANICAL, ELECTRICAL, ETC.) ARE SUBMITTED IN QUANTITY TO ALLOW DISTRIBUTION TO THE INSTALLATION OF ALL ELECTRICAL WORK INDICATED ON ALL ELECTRICAL DRAWINGS AND SPECIFICATIONS IS REQUIRED. DIFFERENCES BETWEEN SPECIFICATIONS AND DRAWINGS MAY EXIST. ALL WORK PERFORMED MUST BE IN ACCORDANCE WITH THE INTERNATIONAL ELECTRICAL CODE (NEC). DRAWINGS ARE DIAGRAMMATIC AND DEFINE THE INTENT OF THE WORK. DRAWINGS AND CONTAINED IN THE SPECIFICATIONS (UNLESS OTHERWISE NOTED) ARE APPLICABLE. ALL WORK PERFORMED MUST BE IN ACCORDANCE WITH THE NEC AND THE ENGINEER.

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ELECTRIC SITE UTILITIES PLAN

KEY NOTES

1. REFER TO LIGHTING PLANS FOR ALL NEW ADDITION BUILDING MOUNTED DIAGRAM FOR ALL CONDUIT AND FEEDER SIZES AND ADDITIONAL REFERENCES TO DETAILS AND INSTALL PER JCP&L COMPANY SPECIFICATIONS.

2. CONTRACTOR SHALL VERIFY EXACT ROUTING AND USE CARE NOT TO DAMAGE DUCTBANK DURING CONSTRUCTION.

3. REFER TO DETAILS AND INSTALL PER JCP&L COMPANY SPECIFICATIONS.

4. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

5. REFER TO LIGHTING PLAN FOR ALL NEW ADDITION BUILDING MOUNTED LEGENDS.

6. REFER TO DETAILS AND INSTALL PER JCP&L COMPANY SPECIFICATIONS.

7. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

8. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

9. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

10. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

11. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

12. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

13. REFER TO CIVIL ENGINEERING PLANS FOR FIXTURE TYPE AND SPECIFICATIONS.

14. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

15. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

16. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

17. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

18. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

19. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

20. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

21. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

22. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

SHEET NOTES

1. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

2. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

3. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

4. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.

5. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.
NO WIRING SHALL BE RUN EXPOSED IN ROOMS OR AREAS WITH NO
LOCATIONS). CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS
6. EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN.
CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH DRAG LINES FOR
SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL ASSOCIATED
ARCHITECTURAL PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL
REFER TO ONE LINE DIAGRAM, DETAILS AND ELECTRIC SITE UTILITIES
HANDHOLE SIZED PER NEC. REFER TO ELECTRIC SITE UTILITIES PLAN
EXISTING UNDERGROUND TELEPHONE AND CABLE TV SERVICE
ENTER CONDUITS TO REMAIN. REFER TO ELECTRIC SITE UTILITIES
EXISTING MAIN DISTRIBUTION SWITCHBOARD "MDB" IN EXISTING
NEW DUPLEX RECEPTACLE TO REPLACE EXISTING EXTERIOR
RECEPTACLE. PROVIDE NEW WIRING DEVICE AND COVER. CIRCUIT TO
EXISTING CIRCUIT AND EXTEND ALL WIRING AS REQUIRED TO MAKE A
FIRST FLOOR PLAN FOR LOCATION
POWER BY EXISTING SECONDARY ELECTRICAL AND PROVIDE NPC
MINI MAIN DISTRIBUTION PANEL TO NEW ELECTRICAL DISTRIBUTION PANEL.
BID SET
SCALE: 1/8" = 1'-0"
TWO RIVER THEATER COMPANY

Red Bank, NJ 07701

Edmund H. Gaunt, Jr., AIA

A Limited Liability Company

Sheet Notes:
1. Ensure that all lights are back-located and provided with separate feeders.
2. Contractor shall coordinate with the owner, adjacent tenant, and other trades for all locations.
3. Contractor shall ensure that all lighting fixtures are back-located and provided with separate feeders.
4. Contractor shall ensure that all lighting fixtures are back-located and provided with separate feeders.
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9. Contractor shall ensure that all lighting fixtures are back-located and provided with separate feeders.
10. Contractor shall ensure that all lighting fixtures are back-located and provided with separate feeders.

Key Notes:
1. All walls and ceiling panels shall be back-located and provided with separate feeders.
2. Contractor shall coordinate with the owner, adjacent tenant, and other trades for all locations.
3. Contractor shall ensure that all lighting fixtures are back-located and provided with separate feeders.
4. Contractor shall ensure that all lighting fixtures are back-located and provided with separate feeders.
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9. Contractor shall ensure that all lighting fixtures are back-located and provided with separate feeders.
10. Contractor shall ensure that all lighting fixtures are back-located and provided with separate feeders.

Third Floor Plan - Power

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Plotted on: 05/24/18

SCALE: 1" = 20'-0"
KEY NOTES

1. DUPLEX GFI RECEPTACLE WITH WEATHERPROOF CAST ALUMINUM IN-USE COVER (TYPICAL).
2. PHOTOCELL MOUNTED ON NORTH SIDE OF ROOF FOR EXTERIOR AND SITE LIGHTING CONTROL. SEE DETAILS.
KEY NOTES

1. TIME-LODE FOR EXTERIOR AND SITE LIGHTING CIRCUITS.
2. LETTER DESIGNATES SWITCHING ARRANGEMENT (TYPICAL).
3. MANUFACTURED UNIT LIGHTING FIXTURE ON WALL ABOVE DOOR.
4. REFER TO SECOND FLOOR PLAN FOR EXTERIOR LIGHTING.
5. REFER TO DETAIL SHEET AND ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
6. SWITCH UP TO SHOP LIGHTS - SEE SECOND FLOOR PLAN FOR FIXTURE LOCATIONS, QUANTITIES, AND ADDITIONAL SWITCH LOCATIONS.
7. LANDING DOOR LIGHTING CONTROLLED AS LOCAL SWITCH.
8. UP TO SECOND FLOOR UPLIGHT LIGHTING FIXTURES.
9. DIMMERS FOR EXTERIOR LIGHTING FIXTURES (TYPE III, TYPE IV, EMERGENCY POWER). REFER TO SECOND FLOOR PLAN.

SHEET NOTES
1. SUBJECT TO FUTURE ENGINEERINGubre TENT AND SITE LIGHTING.
2. CONTRACTOR SHALL COMPLETE ALL LIGHTING LOCATIONS, MOUNTING HARDWARE AND Switches LOCATED WITHIN THE ARCHITECTURAL PAGES PRIOR TO RESIDENTIAL T/L.
3. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
4. ELECTRIC ROOMS: MECHANICAL ROOMS, AND ROOFS WITH ILLUMINATED STREET LIGHTS OR SHOP LIGHTING SHALL BE PROTECTED WITH ONE LIGHTING CONTROL. NO OCCUPANCY/VACANCY CONTROL.

FIRST FLOOR PLAN - LIGHTING

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PROFESSIONAL ENGINEER, NJ LIC. NO. 24GE04842100

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AIA

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RED BANK, NEW JERSEY

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732-747-7634

EDMUND H. GAUNT, JR.
AIA

EDMUND H. GAUNT, JR.
AIA

EPA

RED BANK, NEW JERSEY
KEY NOTES

1. REFER TO DETAIL SHEET AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.

2. REFER TO FIRST FLOOR PLAN FOR LOCATION OF FIRST FLOOR LIGHTING SWITCH.

3. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.

4. REFER TO ELECTRICAL CONTROL DETAILS FOR ADDITIONAL INFORMATION.

5. REFER TO SHEET DETAILS AND FIRST FLOOR PLAN FOR LOCATION(S). THE BOTTOM OF ALL PENDANT FIXTURES THIS ROOM SERVING THE AREA LOCATED AHEAD OF ALL LIGHTING CONTROLS.

SHEET NOTES

1. CIRCUIT ALL PRIVATE EMERGENCY BATTERY FIXTURES EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES INCLUDING EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES LOCATED IN THE WAND ABOVE DOOR. MOUNT LIGHTING FIXTURE ON WALL ABOVE DOOR.

2. MOUNT LIGHTING FIXTURE ON WALL ABOVE DOOR.

3. REFER TO FIRST FLOOR PLAN FOR LOCATION OF FIRST FLOOR LIGHTING SWITCH.

4. REFER TO HEATING CONTROL DETAILS FOR ADDITIONAL INFORMATION.

5. REFER TO ELECTRICAL CONTROL DETAILS FOR ADDITIONAL INFORMATION.
KEY NOTES

- Fire Alarm Remote Annunciator.
- Fire Alarm Control Panel. Refer to Fire Alarm Riser Diagram for additional information.
- Refer to Second Floor Plan for devices in this area.
- Control module to FACP for Firegard AR-D Release Device.
- Coordinate exact requirements with the equipment manufacturer.
- Area of Rescue Assistance Master Station Location.
- Per NFPA 72 2013, Article 21.3.9: A heat detector is specified in order to eliminate nuisance alarms from excessive sawdust, etc. from shop areas.
SECOND FLOOR PLAN - FIRE ALARM

SCALE: 1/8" = 1'-0"

KEY NOTES
1. REFER TO FIRST FLOOR PLAN FOR DEVICES IN THIS AREA.
2. FIRE ALARM EXPANDER PANEL - FIELD VERIFY EXACT LOCATION WITH FIRE ALARM VENDOR. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
3. AREA OF LOCAL ASSISTANCE INTERCOM / PHONE STATION LOCATION.
4. PER NFPA 72, ARTICLE 21.3.9, A HEAT DETECTOR IS SPECIFIED IN ORDER TO ELIMINATE NUISANCE ALARMS FROM EXCESSIVE SAWDUST, ETC. FROM SHOP AREAS.

1.1.18
2010-18
BID SET
KEY NOTES

1. FIRE ALARM EXPANDER PANEL—REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
2. AREA OF RESCUE ASSISTANCE INTERCOM PHONE STATION LOCATION.
3. DUST SMOKE DETECTOR REMOTE TEST SWITCHES.
4. CONTROL MODULE TO FACP FOR FIREGARD AR-D RELEASE DEVICE.
5. COORDINATE EXACT REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER.

REHEARSAL SPACES:
WALL DEVICE BOX OPENINGS SHOULD NEVER BE PLACED BACK TO BACK IN THE DEMISING WALL AND MUST BE SEALED WITH A NON-HARDENING SEALANT SUCH AS 3M BRAND FIRE BARRIER, MPP+ MOLDABLE PUTTY PAD, OR EQUAL. AN OUTLET BOX MUST BE USED IN EACH CABLE AND TELEPHONE OPENING TO REDUCE SOUND THAT MAY OTHERWISE BE TRANSMITTED THROUGH THE PENETRATION. ADDITIONALLY, ALL OPPOSING WALL DEVICE BOX OPENINGS MUST BE LOCATED A MINIMUM OF ONE STUD CAVITY APART.
KEY NOTES

DUCT SMOKE DETECTORS IN SUPPLY AND RETURN DUCTS FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR (TYPICAL).

FIRE ALARM ADDRESSABLE CONTROL MODULE.
1. Refer to architectural plans and system vendor shop drawings for exact device locations and quantities.

2. Electrical contractor shall provide 2-gang outlet box and 1/2" Schedule 40 conduit and wire for all devices. Provide remote indicating light and test switch (with LED, button, and identifier) for each detector in accessible spaces. Provide remote annunciator panel or motor, and provide remote control module for each detector to be programmed to send shutdown signal to the HVAC system to shut down the fan, control module, andlixir starter for fan shutdown system. One module per air handling system, one module per sprinkler head room, and one module per elevator machine room and elevator shaft.

3. Contractor shall provide all required 120V wiring to head end equipment or other stations as required by the system vendor.

4. Provide duct smoke detectors in return ducts of all HVAC systems over 2000 CFM, or as required by international mechanical code (IMC). Detectors, housings, and sampling tubes shall be provided and wired by the electrical contractor and installed in the ductwork by the mechanical contractor. Provide duct smoke detectors in return ducts of all HVAC systems over 2000 CFM, or as required by international mechanical code (IMC). Detectors, housings, and sampling tubes shall be provided and wired by the electrical contractor and installed in the ductwork by the mechanical contractor.

5. Concealed ceiling spaces.

6. Additional requirements based on applicable code requirements.

7. Area of rescue assistance system.

8. Area of rescue assistance riser.

9. Contractor shall provide all required 120V wiring to head end equipment or other stations as required by the system vendor.

10. Contractor shall provide all required 120V wiring to head end equipment or other stations as required by the system vendor.

11. Provide fire alarm riser diagram notes.

12. Review fire alarm riser diagram notes.

13. Typical addressable fire alarm riser diagram.

14. Typical addressable fire alarm riser diagram notes.

15. Typical visible alarm signal circuit.

16. Typical visible alarm signal circuit.

17. Typical visible alarm signal circuit.

18. Temporary addressable fire alarm riser diagram.

19. Temporary addressable fire alarm riser diagram notes.

20. Fire alarm riser diagram notes.

21. Area of rescue assistance system.

22. Area of rescue assistance riser.

23. Fire alarm riser diagram notes.

24. Area of rescue assistance system.

25. Area of rescue assistance riser.
### DP-M

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All drawings are to be copied. The original set of drawings is to be kept for reference and equipment.
## E6.0 Table

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## Notes
1. All drawings to scale.
2. Short circuiting panels shall be flared to interrupt symmetrical short circuit current available at terminals.
3. Do not scale drawings.
4. Drawn by AHG.
5. Checked by AMP.

---

## Electrical Panel Schedule

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### Copper Branch Circuit Wire Sizing Tables

#### 480V - 3% Voltage Drop

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### Notes:
1. Read across to the right from C/B trip to desired voltage characteristics and next greater current rating.
2. Read down to minimum wire size.
3. Distances are to the center of concentrated load such as classroom lighting or the center of a luminous intensity.
4. Equipment disconnecting switches shall be increased in size proportionately to the branch circuit current available at terminals.

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COPPER BRANCH CIRCUIT WIRE SIZING TABLES

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PANELBOARD UNI-STRUT ATTACHED TO STUDS OF WALL WITH 3/8" KAPTOGGLE 24" O.C. FROM FLOOR TO CEILING.

FLOOR WALL MOUNTED PANELBOARD WITH SEISMIC BRACING NOT TO SCALE

LEVELING CHANNEL (EQUIPMENT MOUNTING) EMBEDDED IN CONCRETE. SIZE, LOCATIONS, CONDUIT ENTRANCE AND MOUNTING HOLE DETAILS PER EQUIPMENT MANUFACTURERS SPECIFICATIONS.

45° CHAMFER ALL AROUND CONCRETE

HOUSEKEEPING PAD

6" TRANSFORMER 6" MINIMUM ALL AROUND

EXACT SIZE OF HOUSEKEEPING PAD SHALL BE COORDINATED WITH SIZE OF THE TRANSFORMER, FIELD CONDITIONS, ETC. LEVELING EQUIPMENT MOUNTING CHANNEL SHALL BE SUPPLIED BY EQUIPMENT MANUFACTURER PRIOR TO POURING OF CONCRETE.

LEVELING CHANNEL ABOVE CONCRETE 1/4" MIN.

CONDUITS NOTES:

TRANSFORMER HOUSE KEEPING PAD DETAIL

NOT TO SCALE 45°

TYPE SCB. SEE DETAIL THIS DRAWING.

DIRECTION OF RESTRAINT.

SEISMIC CONTROL OF TRAPEEZE CONDUITS

NOT TO SCALE

CONDUIT (TYPICAL)

SINGLE BOLT CHANNEL CONDUIT STRAPS

TRAPEZE TYPE GALVANIZED STEEL CHANNEL

THREADED GALVANIZED HANGER ROD

BUILDING SLAB

THREADED GALVANIZED HANGER ROD

CONCRETE INSERT

BUILDING STRUCTURE ELEMENTS

MULTIPLE CONDUIT SUSPENSION SUPPORT DETAIL

NOT TO SCALE

WALL MOUNTED PANELBOARD WITH SEISMIC BRACING

NOT TO SCALE