### Door Schedule

<table>
<thead>
<tr>
<th>Door No.</th>
<th>Size</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-900</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hollow Metal Door Detail: Head and Jamb at GWB Wall

- Hollow metal door with head and jamb at GWB wall.

### Door Threshold Detail: Concrete to Rubber Flooring

- Concrete floor transitioning to rubber flooring.

---

**ESBJORNSON GYMNASIUM**

**BASEMENT LOCKER ROOM UPGRADES**

**300 North Campus Drive**

**Glassboro, New Jersey**

**Drawings Copyright © 2017 Clarke Caton Hintz, PC**
ROOF FAN ROOM DEMOLITION PLAN
PROVIDE NEW 20/1 BREAKER IN EXISTING PANEL (TYPICAL) COORDINATE INSTALLATION OF PENDANT FIXTURES WITH EXISTING AND NEW MECHANICAL SYSTEMS

PAVEMENT WORK

EXISTING RECESSED PANEL

PROVIDE NEW 20/1 BREAKER IN EXISTING PANEL

15/2 BREAKER IN EXISTING PANEL

CB

UP

DN

UNLESS NOTED OTHERWISE

REMOVE EXISTING LIGHTING, SWITCHING, EMERGENCY LIGHTING, EXIT LIGHTING, AND ASSOCIATED WIRING. REMOVE ALL EXISTING RECEPTACLES AND ASSOCIATED WIRING IN WALLS SCHEDULED FOR DEMOLITION. REMOVE EXISTING FIRE ALARM DEVICES AND ASSOCIATED WIRING. REFERENCE ELECTRICAL NOTES AND ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL ELECTRICAL DEMOLITION INFORMATION

1. REFERENCE DRAWINGS FOR DEVICE QUANTITIES
2. PROVIDE ALL MODIFICATIONS TO EXISTING FIRE ALARM PANEL AS REQUIRED TO ACCOMMODATE NEW DEVICES
3. REFERENCE SPECIFICATIONS SECTION 16510 FOR ADDITIONAL FIRE ALARM REQUIREMENTS
4. INCLUDE COSTS FOR INSTALLATION DRAWINGS SIGNED AND SEALED BY NJ PROFESSIONAL ENGINEER
5. CONTACT FRANKLIN ALARM SYSTEMS (MR. JOSEPH PETSCH @ 856-728-6424) FOR FIRE ALARM PRICING
6. ALL FIRE ALARM WIRING SHALL BE PLENUM RATED

EXISTING FIRE ALARM PANEL IN RECREATION CENTER.

NOTE: BOTH ESBJORNSON GYM AND RECREATION CENTER ARE SERVED BY SAME FIRE ALARM PANEL

IMPORTANT NOTE:
ALL FIRE ALARM WORK SHALL BE BY ROWAN'S FIRE ALARM VENDOR. THIS INCLUDES ALL DEVICES, MODIFICATIONS AT PANEL, WIRING INSTALLATION DRAWINGS, TERMINATIONS, INSPECTIONS AND CERTIFICATIONS

300 North Campus Drive
Glassboro, New Jersey

ESBJORNSON GYMNASIUM
BASEMENT LOCKER ROOM UPGRADES

Drawings Copyright © Clarke Caton Hintz, PC

7.20.18
**Equipment Connection Notes**

1. **Equipment Location**: Approximate location of new exhaust fan "EF-5". Fan replaces existing fan. Remove existing wiring from fan scheduled to be replaced.

2. **Panel Serving Equipment**: (Typical) equipment designation (typical) equipment connection.

3. **Breaker Provision**: Provide new 20/1 breaker in existing panel.

4. **Electrical Roof Plan**: Provide new lighting fixture, switch, receptacle, and conduit as noted on the drawing.

5. **Lighting Fixture Schedule**: Lighting fixture schedule indicates the fixture number, type, and quantity.

6. **Equipment Connection Schedule**: Equipment connection schedule indicates the equipment number, type, and quantity.

7. **Circuit Wiring and Conduit**: Provide circuit wiring and conduit from the appropriate panel (refer to panel schedules) to the equipment (passing through any applicable controls and local disconnecting means) as per the equipment schedules. Provide individual neutral (where applicable) and equipment grounding conductors with each circuit.

8. **Feed Standing Equipment**: Feed free standing equipment unable to be served by wiring run on/along walls or columns with conduit from the ceiling or under the floor, suitably supported.

---

**Lighting Fixture Schedule**

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Description</th>
<th>Voltage</th>
<th>Lamp Type</th>
<th>Rated Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Overhead Light</td>
<td>120V</td>
<td>Incandescent</td>
<td>10000 hrs</td>
</tr>
<tr>
<td>2</td>
<td>Wall Light</td>
<td>120V</td>
<td>Fluorescent</td>
<td>20000 hrs</td>
</tr>
</tbody>
</table>

---

**Equipment Connection Schedule**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Description</th>
<th>Panel</th>
<th>Circuit</th>
<th>Final Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-5</td>
<td>Exhaust Fan</td>
<td>EF-5</td>
<td>EF-5</td>
<td>EF-5</td>
</tr>
<tr>
<td>WA-1</td>
<td>Wall Light</td>
<td>WA-1</td>
<td>WA-1</td>
<td>WA-1</td>
</tr>
<tr>
<td>EA-6</td>
<td>Exhaust Fan</td>
<td>EA-6</td>
<td>EA-6</td>
<td>EA-6</td>
</tr>
</tbody>
</table>

---

**Equipment Connection Notes**

1. Exact details of equipment connections are not indicated on the electrical floor plan drawings. Equipment connections details are indicated on the equipment connection schedules on the electrical drawings. Approximate equipment locations only are indicated on the floor plan drawings.

2. The equipment schedules indicate the equipment nameplate electrical characteristics (voltage, phase, and load as well as horsepower, where applicable). They also indicate the circuit breaker ampere, local disconnecting means (cord-and-plug [including NEMA configuration] or switch), and circuit wire and conduit.

3. Prior to rough-in, verify exact point of electrical connection to each piece of equipment in the field to avoid placing service at the wrong location.

4. Electrical information shown is based on nameplate and/or catalog cut information, and is accurate to the best of the knowledge of the engineer and owner. However, no guarantees are made to its accuracy. Verify exact electrical, operating, and connection characteristics and requirements in the field prior to purchasing associated electrical equipment (panel branch circuit breakers, receptacles, switches, etc.) and prior to pulling wiring in conduits and/or roughing-in cable wiring methods (where permitted).

5. Provide circuit breakers in panels as per the breaker amps on the equipment schedules. For exact circuiting and connections at panels, refer to the appropriate panel schedules.

6. Provide all equipment with a local disconnecting means, consisting of one of the following, as indicated on the equipment schedule (or otherwise verified in the field).

   a. **Cord-and-Plug Connected Equipment**: Provide receptacle of NEMA configuration or specific type indicated on the equipment schedule. Provide single receptacles unless indicated as duplex (Dup.), quadruplex (Quad.), or otherwise noted. Provide receptacle types compatible with plug types on equipment cords, verify in the field. Locate receptacle near equipment as required. Where equipment cord is not long enough to reach receptacle (or where equipment does not include cord), provide a new cord and plug (to match existing) as required. Provide maximum cord length not exceeding 1.8 m (6'0").

   b. **Thermal Overload Switch (O/L Switch, Manual Motor Starter)**: For all direct connected (without cord and plug) equipment rated 120 V or 277 V and 20 A or less, provide a horsepower rated thermal overload switch located at or adjacent to the equipment. Where equipment is not powered or is powered by sources other than electricity (i.e., pneumatic operation, gas fired, etc.) and where electricity is required only for low voltage or solid state controls, a single pole 120/277 V switch may be utilized.

   c. **Disconnect Switch**: For all direct connected equipment over 120 V (except 277 V single-phase equipment) or over 20 A, provide a suitable heavy duty safety switch. Provide ampere rating and poles as per the equipment schedule. Provide switches of the unfused type, except where fuse sizes (AFU) are indicated on the schedule. Provide fused disconnect switches with fuses where indicated on the schedule. Where indicated as (ECB), provide an enclosed circuit breaker with trip rating as shown.

   d. **Hard Wired Direct Connection (J-Box Only)**: For all direct connected equipment where a disconnecting means is not required by code and not desired by the owner for the equipment served, provide a direct hard wired connection utilizing a suitable junction or outlet box. Where equipment enclosure is suitable for use as a raceway or wire way, the junction or outlet box may be omitted.

7. Provide circuit wiring and conduit from the appropriate panel (refer to panel schedules) to the equipment (passing through any applicable controls and local disconnecting means) as per the equipment schedules. Provide individual neutral (where applicable) and equipment grounding conductors with each circuit.
AS NOTED 7.20.18

GENERAL CONTRACTOR (GC), INCLUDING ALL GENERAL CONSTRUCTION TRADES IN GENERAL (CARPENTRY, STEEL, CONCRETE, SITE, PROTECTION, ETC.), REFER TO MECHANICAL DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES SPECIFICALLY INDICATED ON THE DRAWINGS. 

EXISTING VISUAL SIGNALING DEVICES ARE NOT REQUIRED TO SYNCHRONIZE WITH NEW DEVICES (UNLESS CB TYPES FACILITATING SYNCHRONIZING AND PROVIDE ALL SIGNALING CIRCUITS INCLUDING SYNCHRONIZING CONTROLLERS AS UNUSED OPENINGS. CONFIRM MOUNTING HEIGHT, IN ADDITION TO POWER REQUIREMENTS, PROVIDE (1) 1" CONDUIT FROM BOX TO MOUNTED, MATCH EXISTING SYSTEM. DEVICE SHALL BE FURNISHED, INSTALLED AND WIRED BY ROWAN'S FIRE ALARM VENDOR. 

ENGINEER TO BE IN ADEQUATE CONDITION, AND WHERE SPECIFICALLY APPROVED BY THE OWNER, ARCHITECT, AND ENGINEER, ELECTRICAL CONTRACTOR SHALL PROVIDE RECESSED OR SURFACE BOX IN CEILING. 

FIRE ALARM CONTROL PANEL [F/A] INDICATES MOUNTING IN A SUITABLE NEMA-3R ENCLOSURE. 

STROBE, SEMI-FLUSH MOUNTED, MATCH EXISTING SYSTEM. DEVICE SHALL BE FURNISHED, INSTALLED AND WIRED BY ROWAN'S FIRE ALARM VENDOR. 

CIRCUIT BREAKER TYPES INDICATED ON THE LIGHTING FIXTURE SCHEDULE AS REQUIRED BETWEEN SENSOR AND CONTROL RELAY. PROVIDE POWER PACK FOR ROOMS WHERE OCCUPANCY SENSORS SERVE ONE LINEAR/RECTANGULAR LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE. 

CIRCUIT BREAKER TYPES INDICATED ON THE LIGHTING FIXTURE SCHEDULE 

ELECTRICAL NOTES

1. FIRE ALARM PANELS MEET WITH THE LATEST SPECIFICATIONS OF THE NATIONAL ELECTRICAL CODE (NEC), TOTAL RATING ELEMENTS AS NOMINAL, WIRING, SIZES, LOADS AND OTHER REQUIREMENTS.

2. TERMINAL BLOCKS AND COVERS, LUGS, WIRING, AND ALL HARDWARE SHOWN ON THE DRAWINGS TO BE OF SPECIFICATION GRADE, WHITE FINISH. 

3. WHERE EXISTING WIRING TO BE REMOVED (AS INDICATED ABOVE) OR OTHERWISE AFFECTED BY CONSTRUCTION (BY ANY CONTRACTOR OR TRADE), UNLESS INDICATED OTHERWISE. REFER TO DRAWINGS FOR EFFECTIVE DATES OF REMOVAL OR ADDITION.

4. VERIFY ELECTRICAL RATINGS, CONNECTION REQUIREMENTS, AND EXACT LOCATIONS OF ALL MECHANICAL, KITCHEN, SAFETY, SECURITY, ELECTRICAL, AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE) IN FIELD PRIOR TO PURCHASING ASSOCIATED MANUFACTURING, AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE).

5. CONTACT ANY AND ALL AUTHORITIES HAVING JURISDICTION TO VERIFY REQUIRED MOUNTING HEIGHTS. 

6. VERIFY ELECTRICAL RATINGS, CONNECTION REQUIREMENTS, AND EXACT LOCATIONS OF ALL MECHANICAL, KITCHEN, SAFETY, SECURITY, ELECTRICAL, AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE) IN FIELD PRIOR TO PURCHASING ASSOCIATED MANUFACTURING, AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE).

7. PROVIDE MOUNTING HEIGHTS OF EQUIPMENT AS REQUIRED BY ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS, INCLUDING ALL APPLICABLE DISABLED (HANDICAPPED) ACCESS CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA). CONTACT ANY AND ALL AUTHORITIES HAVING JURISDICTION TO VERIFY REQUIRED MOUNTING HEIGHTS.

8. PROVIDE A COMPLETE AND WORKING INSTALLATION.

9. REVIEW CONTRACT PROVISIONS TO DETERMINE IN WHAT MANNER THE CONTRACTOR MUST COORDINATE THE PROVISION OF ELECTRICAL AUTOMATION SYSTEMS (WHERE SHOWN), AUTOMATION CONTROLS, ARCHITECTURAL, ENGINEERING, MECHANICAL, AND OTHER TRADES, TO INCLUDE THE ORDER OF SERVICE AND THE SEQUENCE OF SERVICE.

10. REVIEW CONTRACT PROVISIONS TO DETERMINE IN WHAT MANNER THE CONTRACTOR MUST COORDINATE THE PROVISION OF ELECTRICAL AUTOMATION SYSTEMS (WHERE SHOWN), AUTOMATION CONTROLS, ARCHITECTURAL, ENGINEERING, MECHANICAL, AND OTHER TRADES, TO INCLUDE THE ORDER OF SERVICE AND THE SEQUENCE OF SERVICE.

11. PERFORM ALL WORK IN PHASES AND SEQUENCES AS DIRECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FULLY COORDINATE PHASES/SEQUENCES IN DETAIL WITH ALL CONTRACTORS/TRADES, THE ARCHITECT, AND THE ENGINEER TO ARCHITECTURAL DRAWINGS FOR THE GENERAL SCOPE OF RENOVATIONS AND AREAS OF GENERAL DEMOLITION. REFER TO LIMITED TO, GENERAL CONSTRUCTION, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC.), AND SERVING EQUIPMENT AREAS OF GENERAL DEMOLITION, INTERFERING WITH NEW CONSTRUCTION BY ANY CONTRACTOR OR TRADE (INCLUDING, BUT NOT LIMITED TO, GENERAL CONSTRUCTION, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC.), RECEPTACLES OR PROTECTION OF STANDARD TYPE RECEPTACLES FROM GFCI CIRCUIT BREAKERS ARE NOT ACCEPTABLE WHERE EXISTING WIRING TO BE REMOVED (AS INDICATED ABOVE) OR OTHERWISE AFFECTED BY CONSTRUCTION (BY ANY CONTRACTOR OR TRADE), UNLESS INDICATED OTHERWISE. REFER TO DRAWINGS FOR EFFECTIVE DATES OF REMOVAL OR ADDITION.

12. PROVIDE MOUNTING HEIGHTS OF EQUIPMENT AS REQUIRED BY ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS, INCLUDING ALL APPLICABLE DISABLED (HANDICAPPED) ACCESS CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA). CONTACT ANY AND ALL AUTHORITIES HAVING JURISDICTION TO VERIFY REQUIRED MOUNTING HEIGHTS.

13. PROVIDE ALL NEW FIRE ALARM VISUAL SIGNALING DEVICES (VISUAL ONLY STROBES AND STROBE PORTIONS OF COMBINATION STROBES). 

14. DO NOT DEPEND ON EXISTING CONDUITS/RACEWAYS FOR GROUNDING PATHS. REUSE EXISTING CONDUCTORS WHERE EXISTING WIRING TO BE REMOVED (AS INDICATED ABOVE) OR OTHERWISE AFFECTED BY CONSTRUCTION (BY ANY CONTRACTOR OR TRADE), UNLESS INDICATED OTHERWISE. REFER TO DRAWINGS FOR EFFECTIVE DATES OF REMOVAL OR ADDITION.

15. VERIFY EXACT CONDUCTOR SIZES AND AMPACITY, EXISTING CIRCUIT BREAKER AND/OR FUSE AMPS, LOAD SHARING OF DIFFERENT EQUIPMENT DESIGNATION, FOR REFERENCE TO THE EQUIPMENT SCHEDULE AS REQUIRED BETWEEN SENSOR AND CONTROL RELAY. PROVIDE POWER PACK FOR ROOMS WHERE OCCUPANCY SENSORS SERVE ONE LINEAR/RECTANGULAR LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE. 

16. VERIFY ELECTRICAL RATINGS, CONNECTION REQUIREMENTS, AND EXACT LOCATIONS OF ALL MECHANICAL, KITCHEN, SAFETY, SECURITY, ELECTRICAL, AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE) IN FIELD PRIOR TO PURCHASING ASSOCIATED MANUFACTURING, AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE).