1. The contractor shall adjust/install all devices to be installed in a neat and workmanlike manner.

2. Should any conditions exist that differ from what is indicated on these drawings, which cause major deviations in the work shown, the contractor shall contact SimplexGrinnell in a timely manner so as not to impair the construction schedule.

3. The power circuit to the FACP and to the fire alarm power supplies shall be on a dedicated 120V, 20A branch circuit control unit.

4. The power circuit to the FACP and to the fire alarm power supplies shall be on a dedicated 120V, 20A branch circuit control unit.

5. The power circuit to the FACP and to the fire alarm power supplies shall be on a dedicated 120V, 20A branch circuit control unit.

6. The contractor will maintain all areas of the building in a neat and workmanlike manner.

7. Update the as-built drawing set daily with job progress. Return the as-built drawing set to SimplexGrinnell.

8. The contractor shall adjust/install all devices to be installed in a neat and workmanlike manner.

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A. ONE-LINE DIAGRAM IS DIAGRAMMATIC. REFER TO FLOOR PLANS FOR EXACT NUMBER AND LOCATION OF DEVICES AND APPLIANCES.

1. IF WELLNESS CENTER IS NOT CONSTRUCTED, WIRING AND CONDUIT IS TO STOP AT THE RESTROOM BUILDING.
**A1:1 Distributed Load Voltage Drop**

- **Panel Equipment**
  - A1:1-1, 1ST FLOOR, 2.321A, 4.44% 18 604 23%
  - A1:3, 1ST FLOOR, GYM, 0.640A, 2.13% 4 394 79%

- **4100-1327**
  - 2 DIGITAL FLEX, 50W AMP W/3 NACS - 70V, 0.0850, 0.1700, 2.2700, 4.5400
- **4100-5101**
  - 1 EXPANSION PWR SUPPLY (XPS) - 120VAC, 60HZ, 0.0500, 0.0500, 0.0500, 0.0500
- **4100-6057**
  - 2 NETWORK MEDIA CARD, FIBER OPTIC, 0.0250, 0.0500, 0.0250, 0.0500
- **4100-6078**
  - 1 NETWORK IF CARD, MODULAR, 0.0460, 0.0460, 0.0460, 0.0460

- **Class B Calculations**
  - Starting Voltage: 29vdc

- **4100-9621**
  - 1 BASIC AUDIO WITH MICROPHONE - DIGITAL, 0.0750, 0.0750, 0.0820, 0.0820
- **4100-1241**
  - 1 MESSAGE EXPANSION BOARD - 8 MINUTES, 0.0020, 0.0020, 0.0170, 0.0170
- **4100-6052**
  - 1 EVENT REPORTING DACT, 0.0300, 0.0300, 0.0400, 0.0400
- **4100-6078**
  - 1 NETWORK IF CARD, MODULAR, 0.0460, 0.0460, 0.0460, 0.0460

- **4099-9004**
  - 13 ADDRESSABLE SINGLE ACTION MANUAL STATION
- **4090-9002**
  - 4 IDNET RELAY IAM
- **4098-9714**
  - 24 TRUEALARM PHOTO SMOKE SENSOR
- **4098-9733**
  - 2 TRUEALARM HEAT SENSOR
- **4098-9756**
  - 3 TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT

- **Miscellaneous Peripheral Devices That May Require System Power**
  - 4096-9843, ENCAPSULATED RELAY PAM-SD, 0.0000, 0.0000, 0.0150, 0.0450

- **4906-9204**
  - 1 ADDRESSABLE CEILING MNT, MC V/O, WHITE, 15 0.0002, 0.0006, 0.0600, 0.1800
  - 1 ADDRESSABLE CEILING MNT, S/V, 25V/70VRMS, WHITE, 110 0.0002, 0.0006, 0.2400, 0.7200
  - 15 ADDRESSABLE CEILING MNT, S/V, 25V/70VRMS, WHITE, 15 0.0002, 0.0030, 0.0600, 0.9000
  - 13 ADDRESSABLE CEILING MNT, S/V, 25V/70VRMS, WHITE, 30 0.0002, 0.0026, 0.0920, 1.1960

- **4906-9254**
  - 3 ADDRESSABLE CEILING MNT, S/V, 25V/70VRMS, WHITE, 15 0.0002, 0.0030, 0.0600, 0.9000
  - 4906-9254, ADDRESSABLE CEILING MNT, S/V, 25V/70VRMS, WHITE, 110 0.0002, 0.0006, 0.2400, 0.7200
  - 13 ADDRESSABLE CEILING MNT, S/V, 25V/70VRMS, WHITE, 15 0.0002, 0.0030, 0.0600, 0.9000
  - 30 ADDRESSABLE CEILING MNT, S/V, 25V/70VRMS, WHITE, 0.0002, 0.0026, 0.0920, 1.1960

- **49VO-WWF**
  - 4 VO, WALL MT, WHITE, FIRE LABEL, 135 0.0008, 0.0032, 0.1600, 0.6400

- **Battery Set #1 (Cabinet/Charger #1) Current Total**
  - Total Standby: 1.1612
  - Total Alarm: 17.4656

- **Device Address current draw included below**
  - 49 Addresses, 0.0392, 0.0490

- **Standby Current for Conversion of Battery Voltage to 29 volt EPS IDNAC Devices**
  - Total Standby: 1.1310
  - Total Alarm: 17.4830

- **Sub Total**
  - 1.1702
  - 17.4656

- **Additional Current Draws**
  - Select ALL Power Supplies on this battery set:
    - EPS-1 0.7040 5.6300

- **Address Totals**
  - 49 Addresses, 0.0392, 0.0490

- **Wire Gauge: 12ga Min. Device Voltage: 23.5vdc**

- **Starting Voltage: 29vdc**

- **Standby Time = 24 Hrs x 1.1702 = 28.0848 Standby Ah**

- **Alarm Time = 15 Min 0.25 x 17.4656 = 4.3664 Alarm Ah**
<table>
<thead>
<tr>
<th>Channel Description</th>
<th>Current</th>
<th>% Drop</th>
<th>Load*</th>
<th>Length</th>
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<td>M1-1 ADRPUL PULL 1ST FLR MACH RM 120</td>
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<td>M1-5 ADRPUL PULL 1ST FLR FOOTBALL LOCKER RM 146</td>
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<td>M1-7 IAM WATER 1ST FLR LAUNDRY 159</td>
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<td>M1-11 RIAM RELAY 1ST FLR MACH RM 120 SHUNT TRIP</td>
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<td>M1-16 ADRPUL PULL 1ST FLR SOUTH CORRIDOR 150</td>
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**Allowable % Drop:** 20.7%

Wire Resistance Per Foot: 0.0019 @ 75° Celsius

Starting Voltage: 29vdc

*Notes: Points shown in italic text refer to existing devices.*