I, Paul D. Westberg, A.I.A., have reviewed the Seismic Safety Element of the Local General Plan. The site is not subject to flooding, and the soil is not expansive.

The duties of the inspector are defined in Section 4-342, Part 1, Title 24, C.C.R.

The contractor will perform his duties in accordance with Section 4-333(B). The duty of the inspector will be in accordance with Section 4-342, Part 1, Title 24.

The contractor shall make all efforts not to disturb the operation of the existing premises including access thereto; measures to protect and render safe the premises to all occupants.

The contractor shall be responsible for any damage done by him to the district's premises or otherwise, and shall repair measures to protect and render safe the premises to all occupants.

The director of the division of the state architect, as the architect, has the authority to enforce the local general plan.

Signed: Paul D. Westberg, A.I.A.
FOR BID PURPOSE ONLY

CONTRACTOR'S STAGING AREA AND AROUND ALL CONSTRUCTION SITES AS EXISTING WITH TRAFFIC BEARING BOX AND LID. TYPE. IF IN VEHICULAR DRIVE OR PARKING AREA, REPLACE AS NECESSARY SURFACE. IF IN PATH OF TRAVEL, REPLACE AS NECESSARY WITH ACCESSIBLE OFFICE OF REGULATION SERVICES IDENTIFICATION STAMP FOR SAFETY DURING CONSTRUCTION.

11. ALL WORK SHALL COMPLY WITH CBC CHAP. 34, CFC ARTICLE 87; PROVISIONS

7'-2"
31'-9"

8" 5'-0" 5'-0" 8" GREATER SIZE.

8. REPAIR EXISTING IRRIGATION SYSTEMS DAMAGED DURING THE EXECUTION OF NEW FENCE EXISTING MATERIALS AT LEAST ONCE A WEEK. TURF SHALL BE MOWED AT LEAST ONCE EVERY TWO WEEKS.

PROHIBITED WITHIN PLANTED AREAS.

5. COORDINATE THE REMOVAL, RELOCATION OR MODIFICATION OF EXISTING RUN-OFF FROM PETROLEUM PRODUCTS, LIME AND MORTAR, SOIL STERILANTS, SIMILAR DETAILS AND REINFORCING REQUIREMENTS. DOWEL NEW CONCRETE IMPROVEMENTS TO REMAIN, INCLUDING LANDSCAPING AND IRRIGATION.

1. FOR TYPICAL SYMBOLS AND ABBREVIATIONS, SEE SHEET G001.

FOR ADDITIONAL SITE WORK ADJACENT TO BUILDINGS NOT SHOWN ON THIS MIN. CL.

FOR SITE REPAIR WORK NOT SHOWN ON ARCHITECTURAL PLANS, SEE

EXISTING BUILDING 47'-3" 4'-0" 5'-0" 5'-0" R20'-10" 6. RUN-OFF FROM PETROLEUM PRODUCTS, LIME AND MORTAR, SOIL STERILANTS, SIMILAR DETAILS AND REINFORCING REQUIREMENTS. DOWEL NEW CONCRETE IMPROVEMENTS TO REMAIN, INCLUDING LANDSCAPING AND IRRIGATION.

PROHIBITED WITHIN PLANTED AREAS.

5. COORDINATE THE REMOVAL, RELOCATION OR MODIFICATION OF EXISTING RUN-OFF FROM PETROLEUM PRODUCTS, LIME AND MORTAR, SOIL STERILANTS, SIMILAR DETAILS AND REINFORCING REQUIREMENTS. DOWEL NEW CONCRETE IMPROVEMENTS TO REMAIN, INCLUDING LANDSCAPING AND IRRIGATION.

1. FOR TYPICAL SYMBOLS AND ABBREVIATIONS, SEE SHEET G001.
ACCESSIBLE CHAINLINK GATE WITH HARDWARE SCHEDULE

ELEVATION

PLAN

POST FOOTING

CHAIN LINK FENCE AND DOUBLE GATE

PEDESTRIAN DOUBLE GATE WITH PANIC BAR

FIRE LANE ACCESS GATE WITH KNOX BOX

NOT USED

ACCESSIBLE CHAINLINK GATE WITH HARDWARE SCHEDULE

ELEVATION

PLAN

POST FOOTING

NOT USED

CHAIN LINK FENCE AND DOUBLE GATE

PEDESTRIAN DOUBLE GATE WITH PANIC BAR

FIRE LANE ACCESS GATE WITH KNOX BOX

NOT USED

ACCESSIBLE CHAINLINK GATE WITH HARDWARE SCHEDULE

ELEVATION

PLAN

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**FINISH ABBREVIATION**

**GENERAL NOTES**
### List of Abbreviations

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### List of Abbreviations (Cont'd)

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### Project Design Criteria

- **Load Class**
  - T1
  - T2
  - T3
  - T4
  - T5
  - T6
  - T7
  - T8
  - T9
  - T10

- **Foundation Area**
  - Not provided

- **Building Height**
  - Not provided

### Concrete

1. **Concrete Grade**
   - Not provided

2. **Concrete Mix Design**
   - Not provided

3. **Concrete Placing**
   - Not provided

### Foundation

1. **Foundation Type**
   - Not provided

2. **Foundation Details**
   - Not provided

### Reinforcing Steel

1. **Reinforcing Steel Details**
   - Not provided

### Electrical Utilities

1. **Electrical Utilities Details**
   - Not provided

### Plumbing Utilities

1. **Plumbing Utilities Details**
   - Not provided

### Structural Steel and Miscellaneous Metal

1. **Structural Steel and Miscellaneous Metal Details**
   - Not provided

### General

- **Material Specifications**
  - Not provided

- **Design Specifications**
  - Not provided

### Dimensions

- **Dimensions Details**
  - Not provided

### Submittals

1. **Submittals Details**
   - Not provided

### Existing Underground Utilities

- **Existing Underground Utilities Details**
  - Not provided

### Caissons

1. **Caisson Details**
   - Not provided

### Reinforcing Steel

1. **Reinforcing Steel Details**
   - Not provided

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**FOR BID PURPOSE ONLY**

**FOR BID PURPOSE ONLY**
GENERAL NOTES
1. PORTIONS OF THESE PLANS HAVE BEEN DERIVED FROM INFORMATION TAKEN FROM ORIGINAL ELECTRICAL SYSTEMS TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT THE SPECIFICATIONS AND OTHER INFORMATION FROM WHICH THESE PLANS WERE DERIVED ARE UP-TO-DATE AND APPLICABLE TO THE SPECIFIC INSTALLATION.
3. ALL REVISIONS TO THE CONTRACTOR'S SPECIFICATIONS MUST BE APPLIED TO THESE PLANS.
4. THE BUILDING CODES AND REGULATIONS GOVERNING THE INSTALLATION OF ELECTRICAL SYSTEMS SHALL BE COMPLIED WITH.
5. THE INSTALLER SHALL BE A QUALIFIED ELECTRICIAN.

EQUIPMENT ANCHORAGE NOTES
1. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE SECURED TO THE STRUCTURE WITH ANCHORAGE DEVICES IN ACCORDANCE WITH THE BUILDING CODES AND REGULATIONS GOVERNING THE INSTALLATION OF ELECTRICAL SYSTEMS.
2. COMPONENTS SHALL BE SECURED TO THE STRUCTURE IN SUCH A MANNER AS TO PREVENT THEIR DISPLACEMENT DURING SERVICE CONDITIONS.
3. ALL COMPONENTS SHALL BE DESIGNATED WITH ANCHORAGE NOTES TO INDICATE THE LOCATION OF ANCHORAGE DEVICES.
4. COMPONENTS THAT REQUIRE MORE THAN ONE ANCHORING DEVICE SHALL BE DESIGNATED WITH ANCHORAGE NOTES TO INDICATE THE LOCATION OF EACH ANCHORING DEVICE.

MOUNTING HEIGHT OVER OBSTRUCTION
1. MOUNTING HEIGHT OVER OBSTRUCTION SHALL BE MAINTAINED ACROSS THE ENTIRE LENGTH OF THE BUILDING.
2. ALL MOUNTING DEVICES SHALL BE SECURED TO THE STRUCTURE IN SUCH A MANNER AS TO PREVENT THEIR DISPLACEMENT DURING SERVICE CONDITIONS.

SYMBOL LIST
1. ALL SYMBOLS USED ON THESE PLANS ARE DEFINED IN THE SYMBOL LIST.
2. THE SYMBOL LIST IS ATTACHED TO THE BACK OF THE PLAN SET.

ABBREVIATIONS
1. ALL ABBREVIATIONS USED ON THESE PLANS ARE DEFINED IN THE ABBREVIATIONS LIST.
2. THE ABBREVIATIONS LIST IS ATTACHED TO THE BACK OF THE PLAN SET.
1. ALL EQUIPMENT SHOWN DASHED IS EXISTING. ALL OTHER EQUIPMENT SHALL BE PROVIDED UNDER THIS CONTRACT.

2. THE EXISTING ELECTRICAL SERVICE IS SUFFICIENT TO SERVE THE NEW LOAD INDICATED.

NOTE:

SINGLE LINE DIAGRAM PLAN NOTES

CONNECT THE REPLACEMENT RESTROOM PORTABLE BUILDING TO THE EXISTING FEEDER TAP.
### E005

**RIO HONDO COLLEGE**

**PICO RIVERA EDUCATION CENTER**

5157 HANEY STREET  
PICO RIVERA, 90630

---

**FBA Engineering**

Consulting Electrical Engineers

fbaengr.com

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**FBA Job Number:** 223.029

---

**ENGINEERING DRAWING - LIGHTING CONTROLS**

**Title:** TITLE 24 INDOOR LIGHTING

**For Bid Purpose Only:**

---

**Plott Date:** 3/17/2016 11:07 AM  
**Plotted by:** Jeff Gomez  
**Drawing Location:** I:\223\029\E005_223029.dwg

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**Lighting Controls**

- Table 1
- Table 2
- Table 3
- Table 4

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**Notes:**

- All lighting controls are to be installed as per the specified standards.
- Details of lighting controls are to be reviewed and approved by the Architect.
- LED lighting controls are mandatory for all new installations.

---

**Signed:**

- [Signatures]

---

**Revisions:**

- [Revisions]

---

**Materials:**

- [Materials]

---

**Approval:**

- [Approval]

---

**References:**

- [References]
### TITLE 24 OUTDOOR LIGHTING CALCULATIONS

For Bid Purpose Only

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**Notes:**
- The calculations are based on the specified lumens, watts, CRI, and CCT values.
- The color temperature rating is determined by the manufacturer's specifications.
- Bid documents must adhere to the specified lighting requirements.

**References:**
- [Standard Lighting Guidelines]
- [California Title 24 Requirements]

**Project Information:**
- **FBA Job Number:** 223.029
- **Plot Date:** 3/17/2016
- **Plotted by:** Jeff Gomez
- **Drawing Location:** I:\223\029\E006_223029.dwg

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**Outstanding Items:**
- [Item 1]
- [Item 2]
- [Item 3]
- [Item 4]

**FBA Engineering:**
- Consulting Electrical Engineers
- fbaengr.com
- 1775 Hancock St, Suite 120, Costa Mesa, CA 92626
- 949.852.9995 (phone) 949.852.1657 (fax)
- 714.508.1780 (San Diego office)
- 619.542.1663 (San Diego office)

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**RIO HONDO COLLEGE:**
- 8951 Honey Street
- Pico Rivera, CA 90660

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**RIO HONDO COLLEGE:**
- 8951 Honey Street
- Pico Rivera, CA 90660
REPORT TO THE ARCHITECT.

7. ALL ELECTRICAL WORK TO MEET THE REQUIREMENTS OF THE STATE ELECTRICAL TESTING SHALL BE WITNESSED BY PROJECT INSPECTOR. SUBMIT A COPY OF THE CALIFORNIA ELECTRICAL CODE, FOR SPECIFIC GROUNDING REQUIREMENTS.

6. STEEL RAMPS AND OTHER METAL COMPONENTS ATTACHED TO PORTABLE BUILDING(S) INDEPENDENTLY GROUNDED. ALL GROUNDING SYSTEMS ARE TO BE TESTED WITH A MEGGER UNIT OR IN AN OTHERWISE ACCEPTABLE MANNER. REFER TO SECTIONS 250-81 UNLESS RESISTANCE IS REDUCED TO 5 OHMS OR LESS. (CEC. 250-84). THIS IS PARTICULARLY IMPORTANT WHEN THE BUILDING IS SUPPORTED ON A FOUNDATION ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" HORIZONTALLY AND 3'-0" VERTICALLY, SHALL BE INSTALLED BETWEEN THE BUILDING AND THE FOUNDATION, FOR BID PURPOSE ONLY DETAILING.

4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 5 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" HORIZONTALLY AND 3'-0" VERTICALLY, FOR BID PURPOSE ONLY DETAILING.

3. FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE FILLED WITH THE SPECIFIED SEALANT MATERIAL. THE SEALANT MATERIAL SHALL BE APPLIED TO THE SURFACE OF THE FIRESTOP SYSTEM AND THE LACKED MATERIAL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" HORIZONTALLY AND 3'-0" VERTICALLY, FOR BID PURPOSE ONLY DETAILING. THE SEALANT MATERIAL SHALL BE APPLIED TO THE SURFACE OF THE FIRESTOP SYSTEM AND THE LACKED MATERIAL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" HORIZONTALLY AND 3'-0" VERTICALLY, FOR BID PURPOSE ONLY DETAILING. THE SEALANT MATERIAL SHALL BE APPLIED TO THE SURFACE OF THE FIRESTOP SYSTEM AND THE LACKED MATERIAL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" HORIZONTALLY AND 3'-0" VERTICALLY, FOR BID PURPOSE ONLY DETAILING. THE SEALANT MATERIAL SHALL BE APPLIED TO THE SURFACE OF THE FIRESTOP SYSTEM AND THE LACKED MATERIAL
PLAN NOTES:
1. DISCONNECT EXISTING ELECTRICAL, GROUNDING, AND FIRE ALARM CONNECTIONS TO THE EXISTING RESTROOM BUILDING. PROTECT CONNECTIONS IN PLACE FOR CONNECTION OF NEW RESTROOM BUILDING.
2. DISCONNECT AND REMOVE EXISTING WALKWAY LUMINAIRE, POLE, CONCRETE BASE AND ASSOCIATED CONDUIT AND WIRING.
3. EXISTING LIGHTING LUMINAIRE, POLE AND BASE TO REMAIN.

LEGEND:
- E EXISTING TO REMAIN
- R REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT
**PLAN NOTE:**

1. Disconnect and remove existing recessed ceiling mounted fluorescent light fixtures. For installation of new ceiling, protect existing lighting branch circuit conduit and wiring in place.
2. Disconnect and remove existing ceiling mounted fire alarm smoke detectors for installation of new ceiling. Protect existing fire alarm conduit and wiring in place. Store existing smoke detectors for installation on the new ceiling system.
3. Disconnect and remove existing ceiling mounted intrusion detection sensors for installation of new ceiling. Protect existing intrusion detection system conduit and wiring in place.
4. Disconnect and remove existing wall switches. Switches shall be replaced with new low voltage lighting control switches.
5. Disconnect and remove the existing exterior lighting fixture and associated wiring. Provide well-water blank cover plate over abandoned outlet box.

**DEMO PERFORMANCE NOTES:**

All existing electrical within the demolition areas of the building shall be removed unless specifically indicated otherwise on the electrical drawings. Refer to architectural wall demolition drawings included in this set for demolition areas and existing walls. The scope of the demolition work shall include all labor, materials, services and equipment required for the removal of all existing electrical not indicated as being reused. This work includes, but is not limited to, the following:

- a. All existing wire shall be removed from conduit.
- b. All existing conduit, that interferes with any new construction shall be cut back as required to clear new construction.
- c. Remove all existing exposed conduit, surface raceways and conduit concealed in existing construction that is to be removed. Reconnect outlets and lighting fixtures which are now fed through the outlets to be removed.
- d. Remove all exposed conduit, wire, outlets, disconnect switches and electrical mounting hardware for mechanical equipment being removed. Provide weatherproof caps on all conduit penetrating roof and abandon conduit. Repair roofing damaged by removal of existing electrical.
- e. Except where exposed conduits are shown on plans, install all new conduits concealed in walls, furred ceiling or under floor space.
- f. Light fixtures and electrical devices indicated to be removed shall be marked and protected from moisture and damage. All fixtures to be removed shall be properly stored to protect from damage until such time that it is reinstated. All fixtures to be reinstated shall be fully operable and shall first be cleaned, relamped, defective ballasts replaced and cracked or broken diffusion/lenes replaced.
- g. All removed materials and equipment which in the opinion of the owner are salvageable shall remain the property of the owner. Deliver such salvaged materials and equipment on premises as directed, and neatly pile or store them and protect from damage.
- h. Do not reuse salvaged materials and equipment, unless specifically indicated on plans or specified. Remove from premises and dispose of all materials considered by the owner to be scrap.

**FOR BID PURPOSE ONLY**
PLAN NOTES:

1. REMOVE EXISTING RECESSED FLUORESCENT LIGHTING FIXTURES AND REPLACE WITH NEW RECESSED LED LIGHTING FIXTURES, TYPE AS INDICATED, TYPICAL.
2. WALL MOUNT CENTRED BETWEEN TOP OF WINDOW AND THE UNDERSIDE OF THE OVERHEAD CANOPY, TYPICAL.
3. PROVIDE COMPLETE CLASSROOM LIGHTING CONTROL SYSTEM PER DRAWING E004 AND THE SPECIFICATIONS.
4. PROVIDE COMPLETE ROOM LIGHTING CONTROL SYSTEM IN ACCORDANCE WITH DRAWING E003 AND THE SPECIFICATIONS.
5. CONNECT TO THE EXISTING ROOM LIGHTING BRANCH CIRCUIT(S).

FOR BID PURPOSE ONLY
PLAN NOTES:
1. PANELSUPPLIED WITH BUILDING. VERIFY EXACT LOCATION WITH MODULAR RESTROOM BUILDING MANUFACTURER'S DRAWINGS.
2. PROVIDE SPLIT WIRE SUPPLIES PER SOCKET CONTROLLED BY THE RESPECTIVE ROOM LIGHTING CONTROLS ACCORDING TO THE RESPECTIVE ROOM LIGHTING CONTROLS. PROVIDE IN ACCORDANCE WITH RL-14.20-1b(2).
3. PROVIDE SPLIT WIRE SUPPLIES PER SOCKET CONTROLLED BY THE RESPECTIVE ROOM LIGHTING CONTROLS FOR THE RESPECTIVE ROOM LIGHTING CONTROLS. PROVIDE IN ACCORDANCE WITH RL-14.20-1b(2).
4. PROVIDE SPLIT WIRE SUPPLIES PER SOCKET CONTROLLED BY THE RESPECTIVE ROOM LIGHTING CONTROLS. PROVIDE IN ACCORDANCE WITH RL-14.20-1b(2).
5. PROVIDE SPLIT WIRE SUPPLIES PER SOCKET CONTROLLED BY THE RESPECTIVE ROOM LIGHTING CONTROLS. PROVIDE IN ACCORDANCE WITH RL-14.20-1b(2).
6. PROVIDE SPLIT WIRE SUPPLIES PER SOCKET CONTROLLED BY THE RESPECTIVE ROOM LIGHTING CONTROLS. PROVIDE IN ACCORDANCE WITH RL-14.20-1b(2).
7. PROVIDE SPLIT WIRE SUPPLIES PER SOCKET CONTROLLED BY THE RESPECTIVE ROOM LIGHTING CONTROLS. PROVIDE IN ACCORDANCE WITH RL-14.20-1b(2).

FOR BID PURPOSE ONLY
BUILDING TELECOMMUNICATIONS PLAN

PLAN NOTES:
1. PROVIDE EXTERIOR OUTLET IN WEATHERPROOF OUTLET BOX, 4" x 4", FOR CONNECTION TO SECURITY CAMERA, TYPICAL.
2. PROVIDE NEW EXTERIOR OUTLET IN WEATHERPROOF OUTLET BOX, 4" x 4", FOR INTRUSION DETECTION SYSTEM, SENSOR. RECONNECT TO THE EXISTING INTRUSION DETECTION SYSTEM CONDUIT, TYPICAL.
3. PROVIDE COMPLETE CLASSROOM AUDIO/VISUAL SYSTEM IN ACCORDANCE WITH PLAN NOTES:
   - PROVIDE ALL CONDUIT, CABLING AND DEVICES FOR A COMPLETE INSTALLATION.
   - PROVIDE NEW OUTLET BOX, FLUSH IN CEILING, FOR INTRUSION DETECTION SYSTEM CONNECTION TO CCTV CAMERA, TYPICAL.
   - PROVIDE DATA NETWORK OUTLET IN WEATHERPROOF OUTLET BOX, +8'-0", FOR CONNECTION TO SECURITY CAMERA, TYPICAL.
   - PROVIDE COMPLETE CLASSROOM AUDIO/VISUAL SYSTEM IN ACCORDANCE WITH PLAN NOTES:
     - PROVIDE ALL CONDUIT, CABLING AND DEVICES FOR A COMPLETE INSTALLATION.
1. PROJECT INFORMATION
   a. OCCUPANCY GROUP - REFER TO ARCHITECTURAL DRAWINGS
   b. CONSTRUCTION TYPE - REFER TO ARCHITECTURAL DRAWINGS
   c. DESCRIPTION OF PRE-EXISTING SYSTEM - SHALL BE PROVIDE IN COLLABORATION WITH CALIFORNIA BUILDING CODE, PART 1, TITLE 24

2. PROVIDE ADDITIONAL 5A-HR OF NEW BATTERY STANDBY POWER TO A1 STANDBY AND 10 MINUTES ALARM.

3. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS DIV. OF THE STATE ARCHITECT VISUAL DEVICE (TYP.)

4. NOTES:
   a. 2#12 EOL (E)
   b. TOTAL MINIMUM AMPERE - HOUR RATING OF BATTERIES = 0.203 A-HR
   c. SMOKE DETECTOR (E)
   d. 75cd WP
   e. HEAT DETECTOR
   f. 0.497 INDICATED (TYPICAL)
   g. INITIATING CIRCUIT AND EXTEND AS (6)
   h. SMOKE DET.
   i. 0.120 15cd STROBE W.P. HORN
   j. 120VAC (5)
   k. NO AUX.
   l. XFMR (Motor with CURRENT DEVICE)
   m. TYPICAL
   n. ACCEPTABLE HERE
   o. 1#16 TSP
   p. SMOK FIRE ALARM SWITCH, COMBINATION TAMPER EOL DEVICE
   q. EOL DEVICE
   r. ACCEPTABLE HERE

5. FIRE ALARM VOLTAGE DROP CALCULATIONS

6. FIRE ALARM SINGLE LINE RISER DIAGRAM

7. FIRE ALARM WIRING DIAGRAM
BUILDING FIRE ALARM PLAN

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

PLAN NOTES:

1. PROVIDE #12 TSP - 1/2" CONDUIT.
2. PROVIDE #16 TSP - 1/2" CONDUIT.
3. PROVIDE #12 TSP - 1/2" CONDUIT.
4. PROVIDE #12 TSP - 1/2" CONDUIT.
5. PROVIDE #16 TSP - 1/2" CONDUIT.

FOR BID PURPOSE ONLY