Fire Alarm Replacement
AT (E) RELOCATABLE CLASSROOMS 19 & 20, 21 & 22
STEVENS CREEK ELEMENTARY SCHOOL
10300 AINSWORTH DRIVE, CUPERTINO, CA 95014

STATE AGENCY REQUIREMENTS
1. Each construction drawing must be signed by a registered architect, approved by the licensed engineer and approved by DSA prior to the start of the project
2. The construction drawings must comply with the requirements of Title 24, California Code of Regulations, and all other applicable codes and standards
3. The construction drawings shall be reviewed by DSA and any required changes shall be made before the start of construction
4. The construction drawings must be submitted to DSA for approval

GENERAL CONSTRUCTION NOTES
- All subcontractors performing work on the project shall be registered with the State Board of Equalization (SBE) and comply with California Labor Law
- The project shall be constructed in accordance with the plans and specifications
- The project shall be completed in accordance with the schedules

FIRE ALARM SYSTEM INSTALLATION
- All fire alarm systems shall comply with the National Fire Protection Association (NFPA) and the International Building Code (IBC)
- All fire alarm systems shall be inspected and tested by a qualified fire alarm technician

STATEMENT OF GENERAL CONFORMANCE
- The project shall comply with all applicable codes and standards
- The project shall be constructed in accordance with the plans and specifications
- The project shall be completed in accordance with the schedules

LEGEND
- Legend symbols are used to indicate the location of various features on the drawings

DEFERRED APPROVALS
- Deferred approvals are necessary for certain items that require additional review or verification

FIRE ZONE
- All fire zones shall be clearly marked on the drawings
- All fire zones shall be clearly labeled on the drawings

FLOOD HAZARD ZONE
- Flood hazard zones shall be clearly marked on the drawings
- Flood hazard zones shall be clearly labeled on the drawings

ALTERNATE
- Alternate bids shall be submitted for the items that require additional review or verification
- Alternate bids shall be submitted for the items that require additional review or verification

VICINITY MAP
- The vicinity map shall show the location of the project
- The vicinity map shall show the location of the project

PROJECT DIRECTORY
- The project directory shall list the contact information for the project team
- The project directory shall list the contact information for the project team

PROJECT SUMMARY
- The project summary shall summarize the scope of work
- The project summary shall summarize the scope of work
### FIRE ALARM REPLACEMENT AT (E) YMCA PORTABLES

#### NOTIFICATION CIRCUIT # 19

<table>
<thead>
<tr>
<th>DEVICE #</th>
<th>DEVICE</th>
<th>GEOMETRY</th>
<th>AMPS DEVICE</th>
<th>TOTAL AMPS</th>
<th>VOLTAGE DROP DEVICE</th>
<th>VOLTAGE DROP</th>
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</thead>
<tbody>
<tr>
<td>V-8-1</td>
<td>Speaker: Strobe 30 cd</td>
<td>30</td>
<td>0.06</td>
<td>0.450</td>
<td>0.05</td>
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<tr>
<td>V-8-2</td>
<td>Speaker: Strobe 30 cd</td>
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<td>0.05</td>
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<tr>
<td>V-8-3</td>
<td>Speaker: Strobe 15/75 cd</td>
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<td>0.07</td>
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<td>V-8-4</td>
<td>Speaker: Strobe 15/75 cd</td>
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<td>0.08</td>
<td>0.273</td>
<td>0.14</td>
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<tr>
<td>V-8-5</td>
<td>Speaker: Strobe 30 cd</td>
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<td>V-8-6</td>
<td>Speaker: Strobe 30 cd</td>
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<td>0.06</td>
<td>0.192</td>
<td>0.10</td>
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#### WIRE GAUGE 12

- **TOTAL CIRCUIT AMPS**: 0.546
- **TOTAL VOLTAGE DROP**: 0.760
- **CIRCUIT VOLTAGE**: 20.4
- **% VOLTAGE DROP**: 3.68%
- **VOLTAGE END OF LINE**: 19.63
- **MIN. OPERATIONAL VOLTAGE**: 16

### FIRE ALARM REPLACEMENT AT (E) YMCA PORTABLES

#### NOTIFICATION CIRCUIT # 20

<table>
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<th>DEVICE #</th>
<th>DEVICE</th>
<th>GEOMETRY</th>
<th>AMPS DEVICE</th>
<th>TOTAL AMPS</th>
<th>VOLTAGE DROP DEVICE</th>
<th>VOLTAGE DROP</th>
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</thead>
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<td>V-20-1</td>
<td>Speaker: Strobe 15/75 cd</td>
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<td>Speaker: Strobe 15/75 cd</td>
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<td>Speaker: Strobe 30 cd</td>
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<td>0.480</td>
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<td>0.06</td>
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<td>V-20-8</td>
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#### WIRE GAUGE 12

- **TOTAL CIRCUIT AMPS**: 0.738
- **TOTAL VOLTAGE DROP**: 1.396
- **CIRCUIT VOLTAGE**: 20.4
- **% VOLTAGE DROP**: 6.48%
- **VOLTAGE END OF LINE**: 19.00
- **MIN. OPERATIONAL VOLTAGE**: 16
TYPICAL TRENCH DETAIL

UNDERGROUND CONDUIT RISER DETAIL

CONDUIT RISER AND WALL PENETRATION

CONDUIT THROUGH ONE HOUR RATED FIRE WALL

CONDUIT THROUGH WALL DETAIL

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