ADDENDUM #1

Attached are the classroom modification drawings and basis of design narrative.
The diagram shows a fire alarm system plan, with sections labeled as follows:

**FIRE ALARM DEMOLITION PLAN**

**FIRE ALARM INSTALLATION PLAN**

**FIRE ALARM GENERAL NOTES & SCOPE OF WORK**

1. The fire alarm equipment shall be installed by Jensen Fire & Alarm Contractors in accordance with the manufacturer’s instructions and NFPA 72 Standard for the Installation of Fire Alarm Systems. All work shall be performed by a licensed and qualified contractor in accordance with the local codes and regulations.

2. The fire alarm system shall be designed and installed to meet the requirements of NFPA 70 National Electrical Code and NFPA 101 Life Safety Code. The system shall be tested and approved by the appropriate authority having jurisdiction.

3. The fire alarm system shall be interconnected with the existing fire alarm system to provide notification of a fire to the fire department and the building occupants.

4. The fire alarm system shall be capable of providing notification of a fire to the fire department and the building occupants in accordance with NFPA 72 Standard for the Installation of Fire Alarm Systems.

5. The fire alarm system shall be designed and installed to meet the requirements of NFPA 72 Standard for the Installation of Fire Alarm Systems.

6. The fire alarm system shall be designed and installed to meet the requirements of NFPA 70 National Electrical Code and NFPA 101 Life Safety Code.

7. The fire alarm system shall be designed and installed to meet the requirements of NFPA 72 Standard for the Installation of Fire Alarm Systems.

8. The fire alarm system shall be designed and installed to meet the requirements of NFPA 70 National Electrical Code and NFPA 101 Life Safety Code.

9. The fire alarm system shall be designed and installed to meet the requirements of NFPA 72 Standard for the Installation of Fire Alarm Systems.

10. The fire alarm system shall be designed and installed to meet the requirements of NFPA 70 National Electrical Code and NFPA 101 Life Safety Code.

11. The fire alarm system shall be designed and installed to meet the requirements of NFPA 72 Standard for the Installation of Fire Alarm Systems.

12. The fire alarm system shall be designed and installed to meet the requirements of NFPA 70 National Electrical Code and NFPA 101 Life Safety Code.

13. The fire alarm system shall be designed and installed to meet the requirements of NFPA 72 Standard for the Installation of Fire Alarm Systems.
WALL MODIFICATIONS PLAN

MODIFICATIONS TO ENCLOSE EXISTING RECIPROCAL SPACE FOR CLASSROOM USE

NEW WALL MODIFICATIONS PLAN

NEW WALL PARTITION TYPES

PARTIAL LIFE SAFETY PLAN

WALL CONSTRUCTION GENERAL NOTES & SCOPE OF WORK

WALL CONSTRUCTION LEGEND

CODE SUMMARY

OLDSHAM CLASSROOM MODIFICATIONS

FA-2.0
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1.0 Introduction
Jensen Hughes has prepared this document to outline the scope of work associated with the temporary classroom modifications at Oldham Elementary School located at 60 Bart Drive, Riverside RI. This narrative describes the work related to the temporary wall construction necessary to modify two existing spaces to create new classroom spaces. This narrative also describes the fire alarm system information and design criteria necessary to provide code compliant NFPA 72 alterations to the existing system to accommodate the new classroom layouts.

2.0 Basis of Design

2.1 BUILDING DESCRIPTION
The Oldham Elementary School building is a single-story mixed-use occupancy as defined by the Rhode Island State Building Code (RISBC) and the Rhode Island Life Safety Code (RILSC). The following summarizes the general building features:

1. Construction Type: II-A (RISBC)
2. Occupancy Use Groups: E, Educational (Classrooms)
   S-1, Storage (Moderate Hazard Storage Rooms)
   F-1/F-2, Industrial (Mechanical/Utility Equipment Rooms) (Assumed that all hazardous materials in building do not exceed exempt quantities and that there are no high hazard areas.)
3. Square Footage: Approximately 26,000 gross square feet
4. Building Height: Approximately 12 feet from grade plane to top of building
5. Number of Floors Above Grade: 1
6. Number of Floors Below Grade: 0
7. Fire Alarm System: The building is equipped with an existing fire alarm system throughout the occupiable areas. This fire alarm system is currently provided with emergency forces notification to the East Providence Fire Department through existing radio master box #2126. Several existing initiating devices and notification appliances will be removed and new equipment added as part of this scope.
8. Fire Protection System: The building is not provided with an automatic sprinkler system.

2.2 APPLICABLE LAWS, REGULATIONS, AND STANDARDS
The automatic fire sprinkler, fire alarm, and life safety systems will be designed and installed in accordance with the applicable provisions of the following codes and standards:

5. All applicable standards referenced by the RIFC and RILSC.
### 3.0 Fire Alarm System

#### 3.1 DESIGN RESPONSIBILITY FOR FIRE PROTECTION SYSTEM

The Professional Engineer (P.E.) from Jensen Hughes will specify the design criteria to be used by the installing contractor who will finalize the system layout and confirm the design criteria (working plans). This will include the design identifying modifications to the existing system. The P.E. from Jensen Hughes will be considered the Engineer of Record (EOR). Jensen Hughes will review the system installation for code compliance periodically during construction and will certify the system installation for general conformance with the construction documents at completion.

#### 3.2 SYSTEM DESIGN BASIS

The scope of work of this project includes demolishing two heat detectors and one horn/strobe and installing four (4) new heat detectors and five (5) new horn/strobes. The existing system will otherwise not be altered.

##### 3.2.1 Fire Alarm Control Unit & Control Equipment

The existing addressable Simplex 4010 fire alarm control unit is located in the main lobby next to the radio masterbox. Both the fire alarm control unit and masterbox will be maintained.

##### 3.2.2 Notification Appliances

Existing notification appliances shall remain except those shown to be demolished on the design drawings. New horn/strobes are to be installed in each room where shown on the design drawings.

##### 3.2.3 Initiating, Monitoring & Control Devices

Existing initiating devices shall remain except those shown to be demolished on the design drawings. New heat detectors are to be installed in each classroom where shown on the design drawings.

##### 3.2.4 Fire Alarm System Wiring

Existing signaling line circuits and notification appliance circuits shall remain. The existing signaling line circuit(s) and notification appliance circuit(s) shall be reused as much as is practical and extended to connect to the new devices. New signaling line circuits and notification appliance circuits shall be installed as necessary. All fire alarm wiring will be Class A and of the correct color code, as required in RILSC 9.6.9.8. All wiring shall be installed in metal raceway of 3/4 inch minimum or approved MC Cable. MC Cable shall only be installed above accessible ceilings.

##### 3.2.5 Fire Alarm System Sequence of Operation

The existing sequence of operation is to be maintained.

#### 3.3 SYSTEM ACCEPTANCE

The Contractor will submit copies of completed test certificates and other required documentation to the East Providence Fire Department (AHJ) and coordinate scheduling (minimum ten (10) business days’ notice) of common fire alarm system acceptance testing.

The Contractor will coordinate rescheduled testing where unsatisfactory results cannot be resolved such that testing can be completed to the satisfaction of the AHJ.
3.4 APPROVAL REQUIREMENTS

It is the Contractor’s responsibility to obtain the following approvals and submit the following documentation prior to the start of work:

1. East Providence Fire Department – Fire Alarm;
2. East Providence Department of Inspections and Standards; and
3. All documentation required by the RIFC.

The following documentation and approvals are necessary prior to the final acceptance test:

1. East Providence Electrical Inspection;
2. East Providence Fire Department – Fire Alarm Division Rough Inspection;
3. Documentation of names, addresses, and telephone numbers of personnel for emergency notification will be submitted to code officials; and
4. Document(s) certifying that the system is in compliance with all laws, regulations, standards, and pre-approved narrative reports (to be submitted to professional in charge after pre-acceptance testing).

The following approval is necessary after the fire alarm system installation is complete:

1. A fire alarm system acceptance test witnessed by the East Providence Fire Department.

3.5 CONSTRUCTION SUPERVISION AND CLOSEOUT

Prior to installation beginning, the contractor shall provide product data sheets and associated calculations to Jensen Hughes for review and approval.

3.6 METHOD FOR FUTURE TESTING AND MAINTENANCE

The fire alarm system contractor will provide all initial system acceptance testing as required per NFPA 72. The fire alarm system contractor will be responsible for providing all required as-built documents, equipment O&M manuals, and information regarding the necessary system inspection, testing and maintenance instructions listed in NFPA 72. All future testing, inspection and maintenance, at the completion of the project, will be the responsibility of the Building Owner.
4.0  Temporary Wall Construction

4.1.1  Design Basis

The scope of work addresses a temporary need for additional classroom spaces to accommodate students displaced from another East Providence school undergoing construction. It is anticipated that these classrooms are used for 2 years before the students may return to the other school.

4.1.2  Code Implications

The classrooms are arranged such that each classroom has two exit access doors, and at least one door leading directly to the exterior or to an exit access corridor. Classroom 131A relies on Section 15.2.5.5 Exception 2a of the RILSC to allow access to the corridor through an intervening room (Room 131). None of the new walls are part of a corridor, so there is no fire rating or smoke barrier separation required.

4.1.3  Wall Construction

The walls are to be constructed as non-fire rated partitions that extend to the existing suspended ceiling. The wall assembly is to be comprised of two layers of 5/8” gypsum wall board surrounding typical 2x4 steel stud framing. Walls are to align with the existing window mullions at the exterior walls as noted on the design drawings. Walls are to be painted with a color specified by the owner.

The walls are to be provided with electrical receptacles at 6-foot horizontal intervals to serve each classroom as noted on the design drawings.

4.1.4  Doors

The doors are to be standard 3’x7’ door leaves with accompanying frames. Door hardware is to be capable of standard key locking with keys that match the building’s master key system. Door hardware shall allow free egress at all times and comply with the provisions of the RILSC for means of egress.