ADDENDUM #2

Date: March 20, 2014

Project: Annual Major Maintenance FY 15
Bid Package #7 – Fire Alarm/Sprinkler/Site

To: Bidders of Record

SPECIAL NOTE: Addendum #2 information shall supersede the information contained in the Contract Documents

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated January 20, 2014 and all addenda and clarifications. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

Revised Bid Due Date: March 28, 2014
Post bid interview/bid review: April 2 & 3, 2014
Selection of successful bidders: April 8, 2014

Request for Information #1:
Are all the sprinkler feeds 6” in diameter?

Response:
No. The Site Contractor shall verify and coordinate the size and location of the water service with the Fire Sprinkler contractor based on sprinkler layouts and location of sprinkler riser.
1. 202 Washington Street: Existing 4” water supply line is installed.
2. 344 Washington Street: The water service supply line shall be 2”. Per Addendum #1, site contractor to provide add cost for the installation of a 4” water service supply and all related materials and labor.
3. 346 Washington Street: The water service supply line shall be 2”.
4. 356 Washington Street: The water service supply line shall be 4”.

Request for Information #2:
In addendum #1 we are asked to give a credit if the water feed line sized is changed from “2” to 4”. Should this really read from “6” to “4”?

Response:
Installation of a 4” Sprinkler Water Feed in lieu of 2” Sprinkler Feed (by Site Contractor) – is an add.
**Request for Information #3:**
At each address is our work as a site contractor limited to the installation of a 6” line to five feet from the building and excavation and backfill to the building?

**Response:**
Scope of work 00200 undergraduate fire alarm / fire sprinkler installation projects has been revised. See attached.

**Clarifications:**
Fire Department Alarms Division will provide additional cards for radio master box 217.

Note change to sequence of operation related to carbon monoxide detectors.

Revised fire alarm layouts from Siemens and ISG are in progress from the suppliers and will be uploaded by end of day on Friday, 3/21/14.

**SEQUENCE OF OPERATION FOR WOODFRAME HOUSES**

<table>
<thead>
<tr>
<th>Manual Pull Station</th>
<th>System Smoke Detector</th>
<th>System Smoke Detector &amp; Any Other Initiating Device</th>
<th>Sprinkler Waterflow Switch</th>
<th>Sprinkler Supervisory Switch</th>
<th>Carbon Monoxide Detector</th>
<th>Apartment Carbon Monoxide Detector &amp; Any Other Initiating Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicate Trouble on FACP</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicate Trouble on remote annunciators</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicate Supervisory on FACP</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Indicate Supervisory on remote annunciators</td>
<td>X</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Indicate Alarm on FACP</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Indicate Alarm on remote annunciators</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sound general evacuation alarm</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Release Electromagnetic door holders</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sound associated sounder base</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound all sounder bases</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Activate RMB and send signal to Fire Department</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
SCOPE OF WORK
UNDERGRADUATE FIRE ALARM / FIRE SPRINKLER INSTALLATION PROJECTS
Addendum #2

PART 1 – GENERAL

1.1 PROJECT LOCATIONS

202 Washington Street – Full House / Recess House (Program House)
344 Washington Street – Farm House (Program House)
346 Washington Street – (Undergrad Woodframe)
356 Washington Street – Buddhist House (Program House)

1.2 RELATED DOCUMENTS

1. The project locations noted above are all five plus bedroom undergraduate wood frame houses. The project scope shall include but not be limited to installing a new sprinkler system and either supplementing the existing reportable fire alarm system with new devices or installing a new fire alarm system.
2. The Owner shall obtain the building permit for all of the MM FY15 projects. Building permit number shall be provided to the awarded contractor. Contractor shall provide to the Owner certified copies of all contractor and sub-contractor licenses. Licenses shall be current and correspond to the type of work being performed by the specific individuals. Contractor shall not be allowed to start work without these copies. Contractor shall schedule and notify Owner of all inspections with the City of Middletown. Owner must be present at inspections.
3. Drawings, photos and general provisions of the Contract, including General and Supplementary Conditions and all other Specification Sections apply to this section.

1.3 HAZARDOUS MATERIAL COORDINATION

1. All painted surfaces are to be treated as positive for lead containing paint due to the construction of the building prior to 1978. Federal, State, Local and OSHA requirements are to be strictly adhered to for all lead removal. Contractor shall wrap lead waste in 6-mil plastic and dispose of in Owner supplied lead dumpster. Owner shall dispose of lead waste.
2. All contractor personnel working on the project shall be certified by the U.S. Environmental Protection Agency (EPA) for lead based paint activities.
3. Contractor shall provide current blood test results for ALL employees working on Wesleyan properties before the start of any work. Monthly reports shall be provided thereafter and also upon completion of the project. See Section 01015.

1.4 SCHEDULE

1. General Project Schedule
   1. Start Work: May 27, 2014
   2. Project Complete: August 1, 2014

1.5 GENERAL PROJECT REQUIREMENTS

1. Contractor shall adhere to the project manual.
2. Reference the Hazardous Assessment materials report available for viewing at the Owner’s office located at 170 Long Lane.
3. Coordinate all work with Owner’s Representative.
4. These are unoccupied single family residential buildings. Buildings in the surrounding area shall be occupied throughout the summer.
5. The contractor will be responsible to ensure each subcontractor is responsible for daily clean up of individual’s work. Project site must be kept clean and free from tripping hazards.
6. Conduct construction waste management activities in accordance with the State of Connecticut EPA, Middletown Municipal Code and all other applicable laws and ordinances. Removal of non lead based debris is to be disposed of in contractor supplied dumpsters at a location agreed to by the Owner and Contractor.
7. Coordinate all work with work of other trades.
8. Contractor to comply with all State and Federal Codes, City of Middletown Ordinances, OSHA requirements and Wesleyan University General Project Requirements and Closeout Procedures.
9. Provide as-built condition drawings for all work performed in this building that creates a physical change to the building.
10. All woodframe houses are fully furnished. Contractor shall provide for the proper protection of existing furnishings. Any furniture moved shall be reinstalled to respective rooms and thoroughly cleaned by this contractor.
11. Contractor shall provide dust barriers to all surrounding spaces within building for partial renovations.
12. After review of site, contractors are responsible for any required temporary protection during the work.
13. Any overtime required to complete the project MUST be brought to Owner’s attention prior to submission of bid.
14. Contractor shall provide traffic barricades, signage, flagpersons and all other traffic control methods required to complete the work.
15. Doors to facilities must be kept locked at all times; any propped doors will be closed by Wesleyan University facility operations staff or public safety, no complaints or exceptions. If doors are to be propped the door shall be watched by a representative of this contractor.
16. Upon completion of all specified work, the contractor shall thoroughly clean the unit for move-in condition. Cleaning shall also include the interior of all windows within the work areas.

PART 2 - SCOPE OF WORK BY DIVISION

DIVISION 2 – SITEWORK / DEMOLITION

SITEWORK GENERAL
1. Contractor shall coordinate the use of heavy equipment with the Owner. Contractor shall protect existing turf, concrete walks and pavement as required. Damaged turf, concrete walks and pavement shall be repaired by the contractor at no cost to the Owner.
2. Contractor shall protect the existing landscaping around the perimeter of each house. Contractor shall re-grade, repair and re-seed all disturbed landscaped areas upon completion of the work.
3. Installation of water services shall be scheduled and completed no later than June 15, 2014.

EXCAVATION
1. Contractor shall excavate as required from the street to the house to tap into the existing city water line for the new sprinkler system water feed.
2. Contractor shall contact “Call Before You Dig” prior to the start of work.
3. All excavation work shall be in accordance with OSHA requirements and trench boxes shall be used if depths exceed the OSHA maximum.
4. Contractor shall protect all landscaped areas within the extents of the project site. Any plantings, trees or shrubs damaged during construction shall be replaced by the contractor at no cost to the Owner.
5. Contractor shall provide dust control for the duration of the project. All surfaces scheduled to be demolished shall be wet down to minimize dust. All sawcutting activities shall be wet. Dry cutting will not be permitted.
6. The Site Contractor shall verify and coordinate the size and location of the water service with the Fire Sprinkler contractor based on sprinkler layouts and location of sprinkler riser.
   a. 202 Washington Street: Existing 4” water supply line is installed.
   b. 344 Washington Street: The water service supply line shall be 2”. Per Addendum #1, site contractor to provide add cost for the installation of a 4” water service supply and all related materials and labor.
   c. 346 Washington Street: The water service supply line shall be 2”.
   d. 356 Washington Street: The water service supply line shall be 4”.
7. Existing water main is located in Washington Street.
8. Prior to the start of work, Contractor shall field measure the work area and submit a layout drawing for final review and approval by the Owner.
9. Site contractor shall provide all material and labor for the complete installation and tap of a new water fire service from the existing water main. Adhere to all city and state codes.
10. Site contractor shall provide material submittals and schedule for review by the Owner to include but not be limited to ball curb valves with connection, 2-holes lid style service box complete and accessories, copper water tube type K heavy wall soft, service fittings with compression connection, service saddles, harness and all related materials for a complete water service installation.
11. Site contractor is responsible to obtain all permits for performance of the work.
12. Termination shall be inside the basement of the house. Provide minimum 10 feet of pipe within the basement for connection to the new fire sprinkler riser.
13. Site contractor is responsible for coring the building foundation and providing a water tight seal.
14. Site contractor shall contact CT-DOT and city of Middletown authorities to coordinate excavation activities in Washington Street. Site Contractor is responsible for providing traffic control with appropriate authorities.
15. Contractor shall properly backfill and compact the new waterline trench in accordance with specification requirements and City of Middletown requirements (Reference most current City of Middletown Public Works Department detail sheets on file with the City of Middletown) and State of Connecticut detail sheets at the office of the State Building Inspector/Public Works for Washington Street excavations.
16. Contractor shall return to repave trench section due to settlement or failure. Contractor shall return in 1 year to inspect trench section. If trench section settled or failed, contractor shall repave trench section.
17. Contractor shall neatly sawcut the existing asphalt and/or concrete sidewalk and curbing using wet methods prior to the start of excavation.
18. Upon completion of all backfill activities, Contractor shall re-pave the trench section in accordance with the City of Middletown paving standards (Reference most current City of Middletown Public Works Department detail sheets on file with the City of Middletown) and State of Connecticut detail sheets at the office of the State Building Inspector/Public Works.
19. Upon completion of all backfill activities, Contractor shall repair/replace the removed concrete or asphalt sidewalk section and curbing. New sidewalk and curbing repairs shall be in accordance with the City of Middletown concrete / asphalt sidewalk standards (Reference most current City of Middletown Public Works Department detail sheets on file with the City of Middletown) and State of Connecticut detail sheets at the office of the State Building Inspector/Public Works.
20. Contractor shall regrade and reseed all disturbed landscaped areas in accordance with specification requirements.
21. Contractor shall compact the sub-grade prior to placing the processed sub-base material.
22. Contractor shall place topsoil to a depth of 4-6” on either side of the repaired sidewalk sections.
23. Contractor shall provide landscaping services to include but not be limited to grading, topsoil, seeding, protecting and maintaining all areas impacted from the work.
24. Contractor shall protect and water all seeded areas for a minimum of 4-weeks.

DEMOLITION

Note: Contractor shall perform all demolition activities in accordance with Wesleyan University’s Construction Waste Management guidelines outlined in section 01505.

DEMOLITION

General
1. For existing fire alarm systems noted to be removed, contractor shall demolish all existing smoke detectors, panels, wiring, related devices and wiremold throughout the house. Return devices/detectors to Owner for proper disposal.

DIVISION 3 – CONCRETE

1. Contractor shall repair the removed concrete sidewalk sections and curbing. New sidewalk and curbing repairs shall be in accordance with the City of Middletown concrete sidewalk standards (Reference most current City of Middletown Public Works Department detail sheets on file with the City of Middletown) and State of Connecticut detail sheets at the office of the State Building Inspector/Public Works.
2. Contractor shall install expansion joints located at either side of the new sidewalk repair sections installed. #5 epoxy painted rebar dowels shall be drilled and secured with epoxy into the existing concrete sidewalk sections. Dowels shall be set 8-10” deep @ 10” O.C. with a 12” leg cast into the new sidewalk section. Expansion joint filler and joint sealant shall be as specified. Concrete control joints between the expansion joint shall be tooled and spaced at 4'-0" O.C.
3. Expansion joint filler shall be Sealtight® Fibre Expansion Joint by W.R. Meadows, Inc., www.wrmeadows.com – 1-800-342-5976 or approved equal. Thickness shall be ½”. Expansion joints shall be set ½” below the concrete surface and filled with the appropriate specified joint sealant.
4. Concrete mix design shall be 4000 PSI. Contractor shall submit proposed concrete mix design to Owner for review and approval.
5. Concrete pavement reinforcement shall be WWF 6x6 – W8xW8 in top 1/3 of slab depth. Welded wire mesh shall be supported by chairs. Welded wire mesh shall not be placed on compacted gravel and pulled up during concrete placement.
6. Contractor shall protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Start initial curing as soon as free water has disappeared from concrete surface after placing and finishing. Begin final curing procedures immediately following initial curing and before concrete has dried. Continue final wet curing for at least 7 days in accordance with ACI 301 procedures. Avoid rapid drying at end of final curing period.
7. Contractor shall perform curing of concrete by wet curing, either by keeping the concrete surface continuously wet by covering with water or providing a continuous water-Fog Spray.
8. Surfaces shall be kept continuously moist for not less than 72 hours after finishing.
9. Contractor shall wet cure with Ultra Care wet curing blankets or approved equal.
10. Contractor shall cover concrete surface with non-staining absorptive wet curing cover, thoroughly saturating cover with water and keeping continuously wet. Place absorptive cover to provide coverage of concrete surfaces and edges, with 4" lap over adjacent absorptive covers.
11. Contractor shall provide a broom finish in a direction perpendicular to the curb line.
12. Contractor shall apply a compatible sealer over the concrete 28-days after concrete placement.
13. Contractor shall provide appropriate signage redirecting pedestrian traffic to a safe route during the performance of this work.

DIVISION 4 – MASONRY
1. N/A

DIVISION 5 – METALS
1. N/A

DIVISION 6 – WOOD AND PLASTICS

DIVISION 7 – THERMAL AND MOISTURE PROTECTION
1. Contractor shall fire seal around all floor, wall and ceiling penetrations for all fire sprinkler and electrical runs.
2. Sprinkler contractor shall provide and install non- fiberglass R-60 insulation to cover and protect from freezing all sprinkler lines installed in or on attic floor.

DIVISION 8 – DOORS AND WINDOWS
1. N/A

DIVISION 9 – FINISHES
1. Contractor shall prep all existing surfaces scheduled to be painted in accordance with the requirements outlined in specification section 09910. Contractor shall clean building surfaces upon completion of all prep work to remove all residues.
1. Contractor shall patch, prep, paint and re-finish all surfaces disturbed, damaged or patched due to the fire alarm and sprinkler system installation.
2. Contractor shall infill, patch, prime and paint any existing walls or ceilings that were demolished to complete any of the work specified.
3. Contractor shall prime and paint any new walls, ceilings or trim installed to complete the work specified.

INTERIOR FINISH SCHEDULE:

SHERWIN WILLIAMS PROMAR 200:

**Interior Trim & Doors:** Wesleyan White #2532 semi gloss
**Kitchen & Bathroom (Walls & Ceilings):** Wesleyan White #2532 semi gloss
**Bedrooms/Common Areas (Ceilings):** White or Wesleyan White #2532 flat (location specific)
**Bedroom/Common Areas (Walls & Ceilings):** Wesleyan White #2532 eggshell (location specific)

SHERWIN WILLIAMS PROMAR 200:

**Fire Sprinkler Piping:** Wesleyan White #2532 semi gloss DTM

DIVISION 10 - SPECIALTIES
1. N/A

DIVISION 11 - EQUIPMENT
1. N/A

DIVISION 12 - FURNISHINGS
1. N/A
DIVISION 13 – SPECIAL CONSTRUCTION
1. N/A

DIVISION 14 – CONVEYING SYSTEMS
1. N/A

DIVISION 15 - MECHANICAL

1. A new residential sprinkler system designed per NFPA 13R shall be installed at all locations noted. Reference specification section 15325 and the project manual dated 1/20/14 for all other project requirements.
2. Contractor shall coordinate new sprinkler installation with the electrical contractor and fire alarm system.
3. Each Fire Sprinkler project location shall be priced separately and the cost for each shall be identified in the appropriate space on the bid proposal form.
4. Shop drawings shall be prepared using AutoCAD 2006 or a compatible program that will open with AutoCAD version 2006. Contractor shall field measure all houses to create floor plans for each individual project location. Sprinkler layouts shall be designed based on existing field dimensions and layouts.
5. Black pipe shall be utilized for all installations.
6. Sprinkler contractor shall provide 8” low voltage electric bell for connection to the fire alarm panel that will be installed by the Electrician.
7. Sprinkler contractor shall provide and install non-fiberglass R-60 insulation to cover and protect from freezing all sprinkler lines installed in or on attic floor.
8. The Contractor shall verify and coordinate the location of the water service with the site contractor and Owner. The water service supply lines shall be 2” & 4” as identified by location.

DIVISION 16 - ELECTRICAL

1. Each fire alarm project location shall be priced separately and the cost for each shall be identified in the appropriate space on the bid proposal form.
2. Contractor shall install a new fire alarm system for the following locations:
   - 202 Washington Street: Existing Fire Alarm System: Siemens System 3 P-35 w/Radio Master Box
   - 344 Washington Street: Existing Fire Alarm System: Siemens System 3 P-30 w/Radio Master Box
   - 346 Washington Street: Existing Fire Alarm System: Fire-Lite Miniscan 424A w/Radio Master Box connection
   - 356 Washington Street: Existing Fire Alarm System: Siemens System 3 P-35 w/Radio Master Box connection

   The new fire alarm system shall be Siemens Desigo, FireLite or approved equal. Reference specification section 16722 and the project manual dated 1/20/14 for all other project requirements. Contractor shall submit proposal pricing for Siemens and FireLite systems as noted on the proposal form on Addendum #1.

3. New fire alarm system shall have battery back up.
4. New fire alarm panel shall connect and report to Middletown Fire Department through radio master box.
5. Contractor shall provide conventional photoelectric detectors with bases and provide audible bases for all bedrooms.
6. Contractor shall hardwire C.O detectors, one on each sleeping floor and one in the basement.
7. Contractor shall provide keyed pull stations, heat detectors, synched horn strobes, battery backup, programming and all related materials and testing. All devices shall be labeled.

8. The fire alarm system is required to incorporate fire sprinkler alarm supervision; tamper and flows. Electrical contractor shall provide any new devices, modules, etc. as required to provide a seamless monitoring interface between the fire alarm and sprinkler systems. Layouts shall be designed based on existing field dimensions and layouts.

9. Electrical contractor shall install 8” low voltage electric bell for connection to the fire alarm panel that will be provided by the Sprinkler contractor.

10. Fire alarm systems shall meet all of the requirements of the new fire alarm systems being installed.

11. Electrical contractor is responsible for all programming.

12. The following information is being provided for clarification purposes:

<table>
<thead>
<tr>
<th>Location</th>
<th>Fire Alarm Control Panel</th>
<th>Monitored</th>
</tr>
</thead>
<tbody>
<tr>
<td>202 Washington Street:</td>
<td>Siemens System 3 P-35</td>
<td>Yes-radio master box 203</td>
</tr>
<tr>
<td>344 Washington Street:</td>
<td>Siemens System 3 P-30</td>
<td>Yes-radio master box 217</td>
</tr>
<tr>
<td>346 Washington Street:</td>
<td>Fire-Lite Miniscan 424A</td>
<td>Yes-radio master box 217</td>
</tr>
<tr>
<td>356 Washington Street:</td>
<td>Siemens System 3 P-35</td>
<td>Yes-radio master box 217</td>
</tr>
</tbody>
</table>

End of Section