

BID # 15-24

## Campus Wide Fire Alarm Repairs

### SECTION "C" TECHNICAL SPECIFICATIONS

#### OWNER

Board of Trustees  
Middlesex County College  
2600 Woodbridge Avenue  
P.O. Box 3050  
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#### PREPARED BY

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**SECTION C - TECHNICAL SPECIFICATIONS**

**TABLE OF CONTENTS**

<b><u>SECTION</u></b>	<b><u>TITLE</u></b>	<b><u>PAGE</u></b>
1.	Scope of Work .....	C-3
2.	Materials .....	C-6
3.	Installation/Execution .....	C-7
4.	Compliance .....	C-7
5.	Site Clean-up .....	C-7
6.	Time Constraints .....	C-7
7.	Work Hours .....	C-8
8.	Warranty .....	C-8
9.	Permits .....	C-8
10.	Additional Information .....	C-9

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**1. SCOPE OF WORK**

The purpose of these specifications is the completion of a contract. This work will be performed at the main Middlesex County College campus in Edison, New Jersey and New Brunswick Center in New Brunswick, NJ.

The contractor shall provide all of the necessary labor, materials, tools and equipment required to complete the work described on the drawings and in these specifications. Materials used in this contract shall be of equal or better. The contractor shall apply for and secure all required permits.

The contractor shall be required to attend a pre-construction meeting on campus at a time to be scheduled after the contract is awarded and other job progress meetings as required by the College and the Engineer.

**A. LOCATION: Facilities Maintenance Building – Welding Shop**

Provide and install 1 smoke detector, 1 pull station and 1 horn strobe in the Welding shop. All wiring shall be red armored MC. Part numbers are Simplex.

See drawing Facilities Management & Warehouse Floor Plan 1 of 1.

Quantity	Part Number	Description
1	4098-9612	Fixed Temp Heat Detector/Base
1	2099-9754	Pull Station and back box
1	4906-9137	Horn/Strobe and back box
As required	18-2 mc	Red armored cable for fire alarm
		Other Necessary Wiring, Materials and Hardware
		Include Programming and test devices

**B. LOCATION: Center Buildings 1, 2, 3 and 4**

Provide and install smoke detectors in the basements only in Center's 1, 2, 3 and 4. NOTE: all basements are typical. MCC will provide 120 V power to new panel and communication; 2 pairs of dry contacts (copper). New alarm panel and horn strobe shall be mounted in basement next to electrical panel. Pull stations shall be mounted next to the 2 first floor main entrance doors and also at the top of both basement stairway landings. Note: Pull station wires shall be concealed in the wall (no wire mold). All wiring shall be red armored MC. Contractor is to provide on-site alarm panel training to MCC maintenance staff.

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See drawing Center Building first Floor Plan 1 of 2 and Center Building Basement Plan 2 of 2.

Quantity	Part Number	Description
1	EST IO64	Edwards System Technologies 64 point addressable panel
6	Siga-HRS	Intelligent addressable smoke detector
6	Siga-SB	Standard detector base
1	EG-1	Genesis Horn strobe and back box
1	EG-1WP	Weather proof Horn strobe and back box
4	Siga-278	Intelligent pull station and back box
As required	18-2 mc	Red armored cable for fire alarm
Other Necessary Wiring, Materials and Hardware Include Programming and test devices		

**C. LOCATION: Foundation 111 Hof Road**

Provide and install smoke detector in the basement of 111 Hof Rd. Mount new alarm panel and horn strobe in the basement next to electrical panel. One pull station shall be mounted at the top of the basement stairwell landing and one pull station shall be mounted next to the front door entrance. Note: Pull station wires shall be concealed in the wall (no wire mold). All wiring shall be red armored MC. Contractor is to provide on-site alarm panel training to MCC maintenance staff.

See foundation drawing Hof 111 Floor plan 1 of 1.

Quantity	Part Number	Description
1	EST 1064	Edwards System Technologies 64 point addressable panel
1	Siga-HRS	Intelligent addressable smoke detector
1	Siga-SB	Standard detector base
1	EG-1	Genesis Horn strobe and back box
1	EG-1Wp	Weather proof Horn strobe and back box
2	Siga-278	Intelligent pull station and back box
As required	18-2 mc	Red armored cable for fire alarm
Other Necessary Wiring, Materials and Hardware Include Programming and test devices		

**D. LOCATION: Mill Gate Building**

Replace all existing devices in building. Leave existing Firelite alarm panel and wiring in place. Install Strobe only devices and smoke detectors in newly renovated rooms (116, 117 bathrooms and 100A, 100B exam rooms). Use red armored MC for wiring devices.

See Mill Gate Floor plan 1 of 1 for locations.

Quantity	Part Number	Description
19	SD355A	Smoke detectors
3	BG12R	Pull Stations- corridor 112 and room 107
2	P2R	Interior horn strobes
1	P2R	Exterior weather proof horn strobe
4	SR	Interior strobe
As required	18-2 mc	Red armored cable for fire alarm
		Other necessary wiring, materials and hardware Include Programming and test devices

**E. LOCATION: West Hall Trailers**

Replace all existing devices. Firelite alarm panel and device wiring is to remain in place.

**Note: Fire alarm panel in room 134 communicates with the main fire alarm panel located in room 115.**

See West Hall 1st Floor Plan 1 of 1 drawing for locations.

Quantity	Part Number	Description
6	SD355A	Smoke Detectors
4	SR	Sensor strobe only
1	P2R	Exterior Horn Strobe
2	BG12L	Pull Station
		Other Necessary materials and Hardware Include Programming and test devices

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**F. LOCATION: Chambers Hall- Room 116**

Replace the non-functional Simplex horn strobe in Room 116 with a new Simplex horn strobe. See Chambers Hall First Floor Plan 1 of 2 and Chambers Hall Basement Plan 2 of 2.

<b>Quantity</b>	<b>Part Number</b>	<b>Description</b>
1	4906-9137	Horn/Strobe and without back box Other Necessary Materials and Hardware Include Programming and test devices

**G. LOCATION: New Brunswick Career Center, 140 New St. New Brunswick, NJ**

Change the "Supervisory" notification to "Flow Switch" indication by running a pair of cables from existing fire alarm panel in room 121 to the fire alarm key pad located at the front entrance room 100.

<b>Quantity</b>	<b>Part Number</b>	<b>Description</b>
As required	18-2	Red armored cable for fire alarm Other necessary wiring, materials and hardware, programming and testing

**The following is a list of drawings that are attached and are a part of these specifications and contract:**

- CAMPUS SITE PLAN
- Facilities Management & Warehouse Floor Plan 1 of 1
- Center Building First Floor Plan 1 of 2 and Center Building Basement Plan 2 of 2.
- Hof 111 Floor plan 1 of 1
- Mill Gate Floor plan 1 of 1
- West Hall 1<sup>st</sup> Floor Plan 1 of 1
- Chambers Hall First Floor Plan (1 of 2) and Chambers Hall Basement Plan (2 of 2).
- New Brunswick Career Center- 140 New St, New Brunswick, NJ Plan 1 of 1

**2. MATERIALS**

The materials used under this contract shall be as specified on the drawings and in the specifications, be of a quality acceptable to the Engineer and meet applicable codes.

See SECTION 1- Scope of Work

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**3. INSTALLATION/EXECUTION**

See SECTION 1- Scope of work.

**4. COMPLIANCE**

The Contractor shall comply with all of the College's safety and work rules when performing work at the college. All contractor employees, subcontractors, etc. shall sign-in daily at the Facilities Management Building upon arrival on campus to be issued a contractor's identification badge. It is expected that all contractor employees will conduct themselves in a professional manner.

The buildings will be occupied during this project. The contractor shall provide temporary barriers consisting of caution tape to separate the work area from the occupied space. As to not to disrupt the educational process, all testing of alarms must be scheduled with the Facilities Maintenance Department in advance.

Middlesex County College is a smoke-free campus. Smoking is only permitted inside a person's personal vehicle. Smoking is not permitted anywhere else on campus or in any construction equipment. The College Police will issue summonses with fines to anyone found in violation of this policy.

**5. SITE CLEANUP**

The work area shall be cleaned on a daily basis. Any items remaining shall be secured and surrounded with safety tape and/or barriers. Any damage caused by the contractor shall be repaired at no cost to the college.

The contractor is to remove all trash, excavated materials, and other waste off site and disposed of it in accordance with current regulations. Provide the college with weight tickets for any materials that can be recycled. The cost for the testing of any materials prior to the removal from the campus as required by regulatory agencies is the responsibility of the contractor.

**6. TIME CONSTRAINTS**

If the Board of Trustees of Middlesex County College has approved an award 10 days

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prior to April 6, 2015, the contractor shall complete the work within 60 days of receipt of Edison Township permits. If the Board has not approved the award by 10 days prior to April 6, 2015, then the College will advise the contractor of an alternate start date.

These time constraints include up to calendar 60 days to obtain permits from the Township of Edison. If the Township has issued a permit after this period due to reasons beyond the contractor's control, then the College will advise the contractor of an alternate completion date. The contractor must submit the permit applications within 7 calendar days of the Notice of Award. This 7 day period is exclusive of the 60 days.

**7. WORK HOURS**

All work is to be performed during normal work hours 8:00 am to 4:30 pm, Monday through Friday. If additional work hours are required, they shall be included in the contractor's bid price and approval of the College shall be requested by the contractor in writing 48 hours prior to the desired work date.

The work hours in this section take precedent over, and will supersede any conflicting references to hours of work elsewhere in these plans and specifications.

**8. WARRANTY**

All materials and workmanship shall be replaced at no cost for a period of one year from the date of final payment unless noted otherwise.

**9. PERMITS**

The contractor shall apply for and secure all required building permits from Edison Township. It is anticipated that the time to obtain a permit could be up to calendar 60 days. The contractor shall allow for this when preparing the project schedule. The fee will be waived by Edison when a letter provided by the College is submitted with the application. As part of the permit process, Edison also requires a Contractor's License. This fee is the responsibility of the contractor. The contractor is also responsible for obtaining and paying for a fire permit or any other such permit that may be required by the Township of Edison.

The contractor is also responsible for coordinating and obtaining all inspections, approvals and the final Certificate of Occupancy or Approval. Final payment will not be made until all work is completed and the final Certificate and all close-out documents described in these specifications are received.

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**10. ADDITIONAL INFORMATION**

Additional information may be obtained from the following individuals:

Facility/specifications:

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