

**ADDENDUM NO. 5**  
**to the Contract Documents for**  
**Elm Street Parking Garage Renovation ~ Phase I**  
**New Bedford, Massachusetts**

Mount Vernon Group Inc.  
200 Harvard Mill Square  
Wakefield, MA 01880

Addendum Date: August 2, 2016

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**TO ALL BIDDERS AND SUB-BIDDERS**

This Addendum modifies, amends, and supplements designated parts of the Contract Documents for the Elm Street Parking Garage Renovation ~ Phase I, New Bedford, Massachusetts set dated July 13, 2016, Addendum # 1 dated July 26<sup>th</sup>, 2016 and Addendum #2 dated July 28, 2016, Addendum #3 dated July 29, 2016 & Addendum #4 dated August 2, 2016 and is hereby made a part thereof by reference and shall be as binding as though inserted in its entirety in the locations designated hereunder. It shall be the responsibility of each General Bidder and all Filed Sub-Bidders to notify all sub-contractors and suppliers he/she proposes to use for the various parts of the works, of any changes or modifications contained in this Addendum. No claims for additional compensation because of the lack of knowledge of the contents of this Addendum will be considered.

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THE NUMBER OF THIS ADDENDUM MUST BE INSERTED IN PARAGRAPH B. OF THE "FORM FOR SUB-BID" AND IN PARAGRAPH B. OF THE "FORM FOR GENERAL BID"

THIS ADDENDUM CONSISTS OF PAGES NUMBERED: **AD5-1 through AD5-2**  
**SECTION 11 12 00 – Parking Control Equipment**  
**Pages 11 12 00-1 through 11 12 00 -6**

**GENERAL**

- ITEM 01            Fire Protection drawings are part of Phase II of the Elm Street Garage Project.
- ITEM 02            All existing exterior surfaces of the Existing Elm Street Garage are to be cleaned and as further described in Section 03 01 30 of the Specifications.

**Elm Street Parking Garage Renovation ~ Phase I**  
**CHANGES TO THE PROJECT MANUAL**

**SECTION 260001 – ELECTRICAL**

- ITEM 01            There is no scope to warrant local utility and or back charges for this project.
- ITEM 02            There will be no paragraph E listing required
- ITEM 03            Refer to specification paragraph 2.14 F, page 260001-23 for existing fire alarm system requirements
- ITEM 04            Delete paragraph "2.12 I, page 260001-21 for LED tape light" this will be established in Phase II of the Elm Street Garage Project

- ITEM 05 Window grate infills and LED light tape are to be deleted as part of Phase I. This work will be established in Phase II of the Elm Street Garage Project.
- ITEM 06 Specific manufacturer for DMX lighting control is not required, equipment must meet the specification requirements.
- ITEM 07 Specific manufacturer for lighting control panel is not required, equipment must meet the specification requirements.
- ITEM 08 Electrical Contractor is to provide and install ECUH-1, as listed, or equal by other manufacturers.
- ITEM 09 City of New Bedford and Whales Tail graphic, including LED tape as indicated on elevation 1/A04.01, will be deleted as part of Phase I. This will be established in Phase II of the Elm Street Garage Project. Provide and install any power to area as detailed or specified as part of Phase I.

**Elm Street Parking Garage Renovation ~ Phase I**

**CHANGES TO THE DRAWINGS:**

**DRAWING EX07.03**

- ITEM 01 Delete notes "D22.2 and D22.3" Fire Protection removal and replacement will be part of Phase II of the Elm Street Garage Project.
- ITEM 02 Delete notes "D5.3, D5.4 & D5.6" Removal of existing fencing and or removal or replacement of existing pickets will be established in Phase II of the Elm Street Garage Project.

**DRAWING A04.01**

- ITEM 01 Delete detail notes on both A04.01 elevations that indicate "New Stl. window grate infill w/ LED light graphic pattern typ of 6 @ south elevation lower level window openings." This work will be established as Part II of the Elm Street Garage Project.

**SECTION 11 12 00**

**PARKING CONTROL EQUIPMENT**

**PART 1 - GENERAL**

**1.01 RELATED DOCUMENTS**

- A. All of the Contract Documents, including Drawings, General Conditions, Supplementary Conditions, and all Sections of Division 01 - General Requirements, apply to the Work of this Section.

**1.02 DESCRIPTION OF WORK**

- A. The Work of this Section includes, but is not limited to, furnishing and installation of the following:
  - 1. Pay Stations.
  - 2. Automatic Barrier Gates.
  - 3. Entry Terminal Ticket Dispenser.

**1.03 RELATED WORK SPECIFIED ELSEWHERE**

- A. Carefully examine all of the Contract Documents for requirements which affect the Work of this Section.
- B. Other Specification Sections which directly relate to the Work of this Section include, but are not limited to, the following:
  - 1. DIVISION 01 – GENERAL REQUIREMENTS; including all Sections contained therein.
  - 2. Section 02 41 13 – Selective Demolition
  - 3. DIVISION 03 – CONCRETE; including all Sections contained therein.
  - 4. Section 04 20 00 – Masonry
  - 5. DIVISION 05 – METALS; including all Sections contained therein.
  - 6. DIVISION 06 – WOOD AND PLASTICS; including all Sections contained therein.
  - 7. DIVISION 07 – THERMAL AND MOISTURE PROTECTION; including all Sections contained therein.
  - 8. DIVISION 08 – DOORS AND WINDOWS; including all Sections contained therein.
  - 9. DIVISION 09 – FINISHES; including all Sections contained therein.
  - 10. Section 12 48 16 – Entrance Floor Grilles
  - 11. Section 22 00 01 – Plumbing
  - 12. Section 26 00 01 – Electrical

**1.04 SYSTEM DESCRIPTION**

- A. Parking Control System: Intended to be used for the following types of parking management:
  - 1. Transient Parking: Hourly rated parking, with fee paid while exiting.
  - 2. Monthly Parking: Monthly rated parking, with fee paid by the month and access gained by access control card.
  - 3. Flat-Rate Parking: Unlimited-duration parking, with free gate entry and fixed-fee amount paid while exiting.
  - 4. Special-Event Parking: Duration-of-event parking, with fee paid while entering with gates up or down.
  - 5. Limited Date(s) and Time(s) Parking: Limited-duration parking, with predetermined fee access control card.
  - 6. Merchant Validated Parking: Fee set, reduced, or waived by merchant validation, with free gate entry and fee paid while exiting.

**ELM STREET PARKING GARAGE RENOVATION – PHASE 1  
NEW BEDFORD, MASSACHUSETTS**

**13 July 2016**

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1.05 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for parking control equipment. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. Shop Drawings: For parking control equipment. Include plans, elevations, sections, details, and attachments to other work.
  - 1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
  - 2. Wiring Diagrams: For power, signal, and control wiring.
- C. Qualification Data: For qualified Installer.
- D. Field quality-control reports.
- E. Operation and Maintenance Data: For parking control equipment to include in emergency, operation, and maintenance manuals.
- F. Software and Firmware Operational Documentation:
  - 1. Software operating and upgrade manuals.
  - 2. Program Software Backup: On magnetic media or compact disk, complete with data files.
  - 3. Device address list.
  - 4. Printout of software application and graphic screens.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Source Limitations: Obtain parking control equipment from single source from single manufacturer.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and applications.
- D. Pre-installation Conference: Conduct conference at Project site.
  - 1. Inspect and discuss electrical roughing-in, equipment bases, and other preparatory work specified elsewhere.
  - 2. Verify that equipment operation is consistent with system description.
  - 3. Review sequence of operation for each type of parking control equipment.
  - 4. Review coordination of interlocked equipment specified in this Section and elsewhere.
  - 5. Review required testing, inspecting, and certifying procedures.

1.07 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Gate Arms: Provide two (2) breakaway gate arms for each gate installed, complete with accessory components.

1.08 WARRANTY

- A. Provide manufacturer's warranty against defects in materials and workmanship for minimum 5 years.

**PART 2 - PRODUCTS**

**2.01 PAY STATIONS**

- A. General: Provide self-contained cashiering exit pay stations designed for self-service operation; consisting of magnetic-stripe ticket dispensers and readers/validators, LCD displays, and thermal printers housed in a combined enclosure.
- B. Manufacturers: Pay stations shall be Citea by Hectronic or Architect approved equal by Amtel Security Systems, Inc. or Engineered Parking Systems, Inc.
1. Dimensions: 62 51/64" (H) x 15 15/16" (W) x 20 1/8" (D)
  2. Weight: 176 lbs., depending on configuration
  3. Temperature Range: Operating temperature - 20° F to 158° F
  4. Power Supply: Mains-free operation with 12V/75 Ah battery,  
Mains-free operation with 12V/75 Ah battery and solar power supply.  
Year-round operation without battery recharging.  
Power supply (110V/230V AC +10/-15%) and battery (12V/7 Ah)
  5. Protection Class: IP 44
  6. Rel. Air Humidity: Up to 100% (thawing allowed)
  7. Display: LCD, backlit/TFT touch display
  8. Keypad: Robust piezo keys
  9. Electronic Coin Validator: 16 freely programmable coin types with 3 acceptance tolerances.
  10. Intermediate Coin Box: Max. 30 coins (dependent on coin size and weight)
  11. Safe: For coin box
  12. Coin Box: Self-locking for 3200 to 4000 coins (dependent on coin size and weight), overflow protection (programmable)
  13. Service Display: LED displays paper and battery error messages
  14. Printer: Thermal printer, 24 chars/line (standard font)
  15. Cutter: Complete and partial cut options available
  16. ADA Compliant: Yes
  17. Card reader/PIN pad: EMC-certified, PCI-compliant
- B. Aluminum: Alloy and temper recommended by aluminum producer and manufacturer for type of use and finish indicated, and as follows:
1. Sheet: ASTM B 209.
  2. Extruded Shapes: ASTM B 221.
- C. Anchorages: Anchor bolts, hot-dip galvanized according to ASTM A 153/A 153M and ASTM F 2329.

**2.02 AUTOMATIC BARRIER GATES**

- A. General: Provide UL-approved parking control device consisting of operator and controller housed in a weathertight, tamper-resistant cabinet enclosure with gate arm. Device shall be activated by a signal from access or revenue control device. Fabricate unit with gate-arm height in down position of not more than 35 inches (889 mm) above pavement to prevent even small vehicles from passing under gate arm.
- B. Manufacturers: Automatic barrier gates shall be 1601 Parking Control Barrier Gate Operator by Door King, Inc. or Architect approved equal by Automatic Control Systems, Inc. or Amtel Security System, Inc.
1. Dimension: 15.25" (W) x 39.5" (H) x 14.75" (D)
  2. Class or Operation: II, III, IV
  3. Max Arm length: 14 Ft. aluminum with a folding arm kit for low headroom application.
  4. Motor: 1/2 HP continuous duty AC motor
  5. Input: 115V AC, 60 HZ, 5.4A
  6. Mechanical: Primary function is provided by a 40:1 worm gear reduction system running in a continuous oil bath.  
Arm rotates 90° in approximately 1.5 seconds

- 7. Electrical:
  - G90 galvanized steel housing, painted white
  - Fail-secure mechanical release method
  - Left or right hand mount
  - 360° gear box rotation before the motor changes direction.
  - Loop Logic vehicular/pedestrian safety system
  - Magnetic electronic limit controls
  - Auto-close timer 1-23 seconds
  - P.A.M.S. (Perimeter Access Management Systems) sequence with a slide or swing gate operator
  - Up input memory buffer
  - Down memory options
  - Multiple up commands
  - Port for plug-in open (up) detector
  - Port for plug-in reverse (down) detector
  - Ports for plug-in loop detectors
  - Programmable switches
  - Built-in power On/Off switch
- C. Standard: Provide barrier gates and gate operators that are listed and labeled according to UL 325 by a qualified testing agency.

**2.03 ENTRY TERMINAL TICKET DISPENSERS**

- A. General: Provide entry terminal ticket dispensers, consisting of ticket-printing and issuing mechanisms, ticket magazines, thermal printers, and controllers housed in cabinet enclosures.
- B. Manufacturers: Ticket dispensers shall be HecTwin by HecTronic or Architect approved equal by Engineered Parking systems, Inc. or Amtel Security System, Inc.
  - 1. Dimensions: 47.24 in. (H) x 15.94 in. (W) x 12.24 in. (D)
  - 2. Weight: Approx. 33 lbs.
  - 3. Temperature Range: Operating temp. -4° F to +158° F
  - 4. Power Supply: 110V/230V AC +10/-15%  
With buffer battery (12V/ 1,3 Ah)
  - 5. Printer: Thermal printer, 24 chars/line (standard font)
  - 6. Intercom: Water and UV-resistant speaker
  - 7. Communication: Modem/LAN
  - 8. Protection Class: IP44
  - 9. Rel. Air Humidity: Up to 100% (thawing allowed)
  - 10. Paper Roll: 8.85 in. diameter

**PART 3 - EXECUTION**

**3.01 EXAMINATION**

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, including equipment bases; accurate placement, pattern, and orientation of anchor bolts; critical dimensions; and other conditions affecting performance of the Work.
- B. Examine roughing-in for electrical systems to verify actual locations of connections before parking control equipment installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

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3.02 PREPARATION

- A. Excavation for Traffic Controllers: Saw cut existing pavement for recessed traffic controllers and hand-excavate recesses to dimensions and depths and at locations as required by traffic controller manufacturer's written instructions and as indicated on Drawings.

3.03 INSTALLATION

- A. General: Install parking control equipment as required for a complete and integrated installation.
  - 1. Rough-in electrical connections according to requirements specified in Section 26 00 01 - Electrical.
- B. Automatic Barrier Gates: Anchor cabinets to concrete bases with anchor bolts or expansion anchors and mount barrier gate arms.
  - 1. Install barrier gates according to UL 325.
- C. Entry Terminal Ticket Dispensers and Pay Stations: Attach cabinets to concrete bases with anchor bolts or expansion anchors.
- D. Connect wiring according to Section 26 00 01 - Electrical.
- E. Ground equipment according to Section 26 00 01 - Electrical.

3.04 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- C. Perform tests and inspections.
  - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- D. Tests and Inspections:
  - 1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
  - 2. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
  - 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- E. Parking control equipment will be considered defective if it does not pass tests and inspections.
- F. Prepare test and inspection reports.

3.07 ADJUSTING

- A. Adjust parking control equipment to function smoothly and lubricate as recommended by manufacturer.
- B. Confirm that locks engage accurately and securely without forcing or binding.
- C. After completing installation of exposed, factory-finished parking control equipment, inspect exposed finishes and repair damaged finishes.

3.08 PROTECTION

- A. Remove barrier gate arms during the construction period to prevent damage, and install them immediately before Substantial Completion.

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3.09 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain parking control equipment.

**END OF SECTION**