



December 23, 2020

ADDENDUM No. 3 to PIN: 072202004CPD
Methane Mitigation and Detection System Upgrade
at Central Warehouse Facility

Dear Prospective Bidder:

Pursuant to section §3-04 of the Procurement Policy Board (PPB) Rules, the Department of Correction (DOC) is issuing Addendum No. 3 to the solicitation for the services referenced above.

Be further advised, this Addendum includes revisions to the contract documents as generally outlined herein. For detailed revisions please review all the attached documents.

A. DESCRIPTION OF CHANGES:

- 1) The subject Addendum revisions are to include revisions to the contract documents to reflect scope of work as described herein and includes responses to contractors' questions.
- 2) All revisions to drawings are shown clouded with triangle number 1.
- 3) All specification revisions are shown bold

B. SPECIFICATION CHANGES:

- 1) Spec section 22 11 30 – Revised piping spec.
- 2) Spec section 00 01 50

C. DRAWINGS CHANGES (ATTACHEMENT I):

- 1) X002.00 – Revised special note.
- 2) X101.00 – Revised piping location, size and tag note.
- 3) X102.00 – Revised central fire house location.
- 4) X401.00 – Revised MMB-1 detail, include methane process and instrumentation detail.
- 5) X402.00 – Revised detail 12 and 13.

D. PHOTOS (ATTACHEMENT II):

- 1) See attachment for photos. These photos are for reference only. Contractor to examine contract drawings, specifications and attend pre-bid site visits to acclimatize about the site conditions prior to bidding.

E. RESPONSE TO CONTRACTORS' QUESTIONS

1. Dwg# X-002 shows usage of Schedule 40 PVC pipe for all Mitigation piping. Whereas Specification Section# 221130 calls for Schedule 40 Black Steel Piping. Please advise.

Response: PVC pipes and fittings shall be used for all mitigation piping in this project. See addendum#3 – spec section 22 11 30.

2. Please provide information (manufacturer & model #) on the Methane Sensors that are being replaced.

Response: New sensors shall be SMC, Model #5100-28-IT or approved equal.

3. Will there be any asbestos abatement work involved in the scope of work. As we don't see any on the drawings & specifications. Please confirm.

Response: Please see specification book – SECTION I: SCOPE OF WORK – A. Construction Services – 2. Asbestos Requirement.

4. Please advise, whether Sierra Monitor Sentry IT Controller needs to communicate via Ethernet or IP protocol?

Response: Communication shall be via existing Ethernet.

5. Please provide information on the existing Fire Alarm System & Vendor.

Response: Fire Alarm System is JCI/Simplex.

6. Will there be any asbestos abatement required for Roof Penetrations by the Blower? Please also provide roofing vendor & warranty info.

Response: See Response to Q#3. There is no applicable roof warranty to be concerned with. However, work shall be done by qualified roofer with material and installation procedures approved by the engineer of record.

7. Would there be any protective enclosures required by the new exposed air intake piping inside the warehouse.

Response: Provide piping protection up to 8'-0" from floor. See Addendum No. 3 drawing for details.

8. Please provide pictures of the blower on the roof that is being replaced, existing methane sensors (typical), location of exposed air intake piping that is being replaced.

Response: Please see Addendum#3 – Attachment II.

9. Dwg#X-002; Special note calls for removing & replacing methane piping. Please advise on the finishes of the areas where this piping replacement is applicable. Based on the finishes pricing varies. As each contractor figures this in a different way, can Engineer of Record/DOC give a FIXED allowance amount for this scope?

Response: All the pipes are buried under existing concrete floor. Contractor shall include cost for pipe replacement under existing 12" slab for the quantities shown on drawing X-002.

10. Please advise on the Temporary Methane detection system scope. Do we need to provide a temporary methane detection system that needs to be tied into central monitoring station?

Response: Temporary methane detection system is not required.

11. Per site visit discussion, it has been mentioned that we need to perform Vacuum testing on the existing underground piping to make sure the integrity of the existing system. As since the existing underground piping is perforated, how do we perform this test? Please advise.

Response: Underground piping requires Camera testing per drawing X002, pressure testing is not required.

12. The budget estimate for the cost of construction.

Response: Engineer estimate is in the range of \$700,000.00.

13. Please provide an elevation of the existing building to determine accurate footages of conduit and cable between floors.

Response: The clear height from finished floor to underside of slab in the single-story warehouse portion of the building is 30 feet. The first-floor office space below the second story is 20 feet from finished floor to ceiling slab. The floor to roof underside height of the second floor is 20 feet.

14. Drawing E101.00 Key Note 2 states: “Provide power to PDC from 20A/1P Circuit Breaker in nearest panels...” Please advise on the location of the nearest panel.

Response: See drawing E-002 “Panel Schedule Notes” for length of the conduit and feeders.

15. Drawing E102.00 general Note 1 states: “Central Monitoring Station and PDC to be installed in the Central Fire House”. Please confirm that new conduit and wire from the Central Warehouse to the Central Fire House is not required and how communication is established.

Response: PDC will be provided in Central Fire House for power to the low voltage equipment. Communication from Central Warehouse to the Central Fire House is through existing Internet Protocol (IP).

16. Drawing E102.00 general Note 1 states: “Central Monitoring Station and PDC to be installed in the Central Fire House”. Please provide a layout for the panels in the Central Fire House.

Response: The Central Monitoring Station and PDC shall be field coordinated with DOC on site at the Central Fire House.

17. Drawing E102.00 Key Note 8 states: “Connect PDC to 20A/1P Circuit Breaker in nearest panels...” Please advise on the location of the nearest panel.

Response: See response to Q# 14 above.

18. Can you please provide the engineer’s estimate cost for the project?

Response: Please see response to Q#12.

19. Can you please provide pictures of the methane blower unit on the roof as well as the area where the existing MDCP and ethernet concentrator are located?

Response: See attachment for photo of existing methane blower and MDCP. MDCP location is shown on Drawing X-101. There is no existing Ethernet concentrator. The ethernet concentrator shall be located within 10 ft of the MDCP.

20. Please confirm that we are to remove the existing wires going to the existing methane detectors and then install new wires using the existing conduits to the new methane detectors.

Response: Yes, Contractor shall remove existing wires going to existing methane detectors and install new wires using existing conduits. Contractor shall verify the condition of the conduits for reuse. See Addendum No.3 – Attachment I- drawing for clarification.

21. Please advise where does the central monitoring station communicate to?

Response: Central monitoring station communicates with the ethernet concentrator. See X402.00 for methane detection system detail.

22. On contract drawing X401.00, it indicates that there are "typical for 3" central monitoring station remote displays. Please advise where to install the 3 displays.

Response: See addendum No.3 – Attachment I- drawings. It is "typical for 2" One is located in the central warehouse location; one is located in the central firehouse.

23. Please advise if rigid galvanized steel conduit or EMT conduit is to be used. Also advise if conduit can be installed surface mounted.

Response: Rigid galvanized steel conduit shall be used for all exposed locations. EMT can be used for concealed locations.

Please note: The due date for Requests for Information (RFIs) has passed and no further questions will be accepted.

Please sign below in acknowledgment of this addendum and submit this addendum with your bid.

Agency Chief Contracting Officer

I acknowledge receipt of this addendum.

Bidder/Company Name (Print)

Authorized Representative (Print Name)

Authorized Representative (Signature)

Date

DIVISION 00 - DRAWINGS

SECTION 00 01 50 – LIST OF DRAWINGS

LIST OF DRAWINGS:

- A. The Contract Drawings, which accompany this Part C (Specifications) and form a part of the Contract Documents, are listed on the Title Sheet of the Drawings.
- B. **NOT USED.**
- C. Examine the drawings for related contracts to ascertain the relationship of the Work to the related contracts.
- D. **NOT USED. LIST OF DRAWINGS is shown on the title sheet of the drawings.**

END OF SECTION 00 01 50

SECTION 22 11 30 METHANE PIPING SYSTEM

PART 1 – GENERAL;

1.1 DESCRIPTION OF WORK:

- A. Extent of Methane piping system work is indicated on Drawings and by the requirements of this Section.

1.2 SUBMITTALS:

- A. Product Data:
 - 1. Manufacturer's product data;
 - 2. Installation Instructions;
 - 3. Capacities.
- B. Submit Shop Drawings indicating all operating pressures and catalog cuts for the following:
 - 1. Methane piping materials
 - 2. Methane piping layout including service, meter and distribution piping.
 - 3. Methane Lubricated Plug Valves and Methane Cocks
 - 4. Pipe joint sealing materials
 - 5. Flanges and Gaskets
 - 6. Methane Pressure Regulators
- C. Certifications:
 - 1. **NOT USED.**
 - 2. Certificate of satisfactory installation from the manufacturer of Methane boosting system.
- D. **Submit a detailed schedule for the installation of Methane piping.**
- E. **NOT USED.**

1.3 QUALITY ASSURANCE:

- A. New York City Building Department (DOB) and with the latest regulations of the Administrative Code of the City of New York.
- B. **NOT USED.**
- C. **NOT USED.**

1.4 DEFINITIONS:

**Wherever a brand name is mentioned on this page, the phrase "or approved equal" shall be deemed to have been inserted immediately thereafter.*

- A. ABS: Acrylonitrile-butadiene-styrene plastic.
- B. EPDM: Ethylene-propylene-diene terpolymer rubber.
- C. LLDPE: Linear, low-density polyethylene plastic.
- D. NBR: Acrylonitrile-butadiene rubber.
- E. PE: Polyethylene plastic.
- F. PVC: Polyvinyl chloride plastic.
- G. TPE: Thermoplastic elastomer.

1.5 **PERFORMANCE REQUIREMENTS:**

- A. **Piping Pressure Rating: At least equal to system operating pressure but not less than 100 psig.**

PART 2 – PRODUCTS:

a. **NOT USED**

b. PVC PIPE AND FITTINGS:

- A. **NOT USED.**
- B. **NOT USED .**
- C. **NOT USED .**
- D. **NOT USED .**
- E. **NOT USED .**
- F. **NOT USED .**

G. **MANUFACTURERS**

- 1. **PVC Piping and fitting to be the following:**
 - a. **Georg Fischer Piping System**
 - b. **Or Approved Equal**

H. **PIPING MATERIALS**

- 1. **Refer to Part 3 "Piping Applications" Article for applications of pipe, tube, fitting, and joining materials.**

I. **PIPES, TUBES, AND FITTINGS**

- 1. **PVC Pressure Pipe: ASTM D 1785, Schedule 40.**
 - a. **PVC Socket Fittings: ASTM D 2466, Schedule 40.**
 - b. **PVC Socket Fittings: ASTM D 2467, Schedule 80.**
 - c. **PVC Threaded Fittings: ASTM D 2464, Schedule 80.**

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J. JOINING MATERIALS

1. **Couplings: Assemblies with combination of clamps, gaskets, sleeves, and threaded or flanged parts; compatible with piping and system liquid; and made by piping manufacturer for joining system piping.**
2. **Adapters and Transition Fittings: Assemblies with combination of clamps, couplings, adapters, gaskets, and threaded or flanged parts; compatible with piping and system liquid; and made for joining different piping materials.**
3. **Flanges: Assemblies of companion flanges gasket complying with ASME B16.21 and compatible with system liquid, and bolts and nuts.**

c. **NOT USED**

d. **NOT USED**

e. **NOT USED**

2.2 LUBRICATED PLUG VALVES:

- A. Lubricated plug valves for use on Methane service and Methane meter piping shall be as approved by the serving utility.
- B. Lubricated plug valves for use on Methane distribution piping; mains, branches and base of risers shall be cast iron body, rated for 200 pounds cold working pressure and shall be wrench operated, except valves 10" and larger which shall be worm gear operated.
- C. Lubricated plug valves 2" and smaller shall be short pattern threaded; 2½" and larger shall be regular pattern flanged.
- D. Lubricated plug valves shall be Nordstrom Valves Inc. Fig. 142 for sizes 2" and smaller, Fig. 115 for sizes 2½" through 4" inclusive, Fig. 165 for sizes 6" and 8", and Fig. 169 for sizes 10" and larger; or Walworth Fig. 1796 for sizes 2" and smaller, Fig. 1700F for sizes 2½" through 8", and Fig. 1707F for sizes 10" and larger.

2.4 NOT USED**2.7 NOT USED****PART 3 – EXECUTION:****3.02 INSTALLATION:**

- A. **Refer to Division 23 Section "Basic Mechanical Materials and Methods" for basic piping installation.**

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- B. Install piping next to equipment, accessories, and specialties to allow service and maintenance.**
- C. Transition and special fittings with pressure ratings at least equal to piping pressure rating may be used, unless otherwise indicated.**
- D. Flanges may be used on aboveground piping, unless otherwise indicated.**

3.03 NOT USED:**3.4 PAINTING:**

- A. Mill-wrapped piping shall not be painted.
- B. Painting of Methane pipe shall be done after required testing is performed and accepted. Interior Methane pipe shall not be painted unless otherwise noted on drawings. All painted and unpainted piping shall be labeled in accordance with the "Labeling" article below.
- C. Exterior Piping:
 - 1. Piping Exposed to Public View: One coat of primer and 2 coats of finish paint of color selected by DOC.
 - 2. Piping not exposed to public view, such as that running on roof: Once coat of primer and 1 coating of finish paint in safety yellow.
- D. Interior Piping (where indicated on Drawings): One coat of primer and 2 coats of finish paint of color selected by DOC.
- E. For additional materials and method of painting, refer to Section 09 90 00 - Painting.

3.5 LABELING:

- A. General Requirements: Methane piping shall have marker labels indicating the pipe as a methane line and the operating pressure within that pipe. Refer to Section 22 05 53.
- B. All valves shall be suitably tagged to indicate the operating pressure level within the distribution piping.

3.6 FIELD QUALITY CONTROL:

- A. Testing:
 - 1. General
 - a. NOT USED**
 - b. Cooperate with the Testing Laboratory in making all required tests.
- E. **Pressure-Piping Testing:**
 - 1. **Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. If testing is performed in segments,**

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submit separate report for each test, complete with diagram of portion of piping tested.

- 2. Leave uncovered and unconcealed new, altered, extended, or replaced piping until it has been tested and approved. Expose piping that was covered or concealed before it was tested.**
- 3. Cap and subject piping to static water pressure of 50 psig above operating pressure, without exceeding pressure rating of piping materials. Isolate test source and allow to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired.**
- 4. Repair leaks and defects with new materials and retest piping or portion thereof until satisfactory results are obtained.**
- 5. Prepare reports for tests and required corrective action.**

B. Inspection;

- 1. Testing Laboratory**
 - a. The contractor will engage a Testing Laboratory or Special Inspection Agency to provide the inspection and specialty testing.
 - b. The Testing Laboratory will be responsible to and under the supervision of a Special Inspector.
 - c. NOT USED**
- 2. Special Inspector**
 - a. The contractor will assign a Special Inspector to supervise the testing of Methane pipe welding in accordance with Section BC 1704.19, regardless of Methane pressure. The Special Inspector will verify the qualifications of the welder
 - a. Notification: Before any work is commenced on an item of construction requiring Special Inspection, all persons responsible for such Special Inspections shall be notified in writing at least seventy two (72) hours prior to such commencement.

3.7 NOT USED

3.8 PIPING APPLICATIONS:

- A. Transition and special fittings with pressure ratings at least equal to piping pressure rating may be used in applications below, unless otherwise indicated.**
- B. Flanges may be used on aboveground pressure piping, unless otherwise indicated.**

3.9 VALVE APPLICATIONS

- A. Drawings indicate valve types to be used. If specific valve types are not indicated, the following requirements apply:**
 - 1. Shutoff Duty: Use ball, butterfly, or gate valves.**

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2. **Throttling Duty:** Use ball, butterfly, or globe valves.

B. Use plastic and plastic-lined valves with wetted surfaces made of same material as or compatible with piping and compatible with system liquid.

3.10 JOINT CONSTRUCTION

A. Refer to Division 23 Section "Basic Mechanical Materials and Methods" for basic piping joint construction. If specific joint construction is not indicated, follow piping manufacturer's written instructions.

B. **Plastic-Piping, Heat-Fusion Joints:** Make polyolefin pressure-piping joints according to ASTM D 2657.

C. **Plastic-Piping Electrofusion Joints:** Make polyolefin drainage-piping joints according to ASTM F 1290.

D. **Dissimilar-Material Piping Joints:** Make joints using adapters compatible with both system materials.

3.11 HANGER AND SUPPORT INSTALLATION

A. Refer to Division 23 Section "Mechanical Vibration and Seismic Controls" for seismic-restraint devices.

B. Refer to Division 23 Section "Hangers and Supports" for pipe hanger and support devices. Install the following:

1. **Vertical Piping:** MSS Type 8 or MSS Type 42, riser clamps.

2. **Individual, Straight, Horizontal Piping Runs:**

a. **100 Feet and Less:** MSS Type 1, adjustable, steel clevis hangers.

b. **Longer Than 100 Feet:** MSS Type 43, adjustable roller hangers.

c. **Longer Than 100 Feet, if Indicated:** MSS Type 49, spring cushion rolls.

3. **Multiple, Straight, Horizontal Piping Runs 100 Feet or Longer:** MSS Type 44, pipe rolls. Support pipe rolls on trapeze.

4. **Base of Vertical Piping:** MSS Type 52, spring hangers.

C. Install supports according to Division 23 Section "Hangers and Supports."

D. Support horizontal piping and tubing within 12 inches of each fitting and coupling.

E. Support vertical piping and tubing at base and at each floor.

F. Rod diameter may be reduced 1 size for double-rod hangers, to a minimum of 3/8 inch.

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- G. Install vinyl-coated hangers for PVC piping with the following maximum horizontal spacing and minimum rod diameters:**
1. NPS 1-1/4: 36 inches with 3/8-inch rod.
 2. NPS 1-1/2 and NPS 2: 42 inches with 3/8-inch rod.
 3. NPS 2-1/2 and NPS 3: 42 inches with 1/2-inch rod.
 4. NPS 4 and NPS 5: 48 inches with 5/8-inch rod.
 5. NPS 6: 48 inches with 3/4-inch rod.
 6. NPS 8 to NPS 12: 48 inches with 7/8-inch rod.
- H. Install supports for vertical PVC piping every 48 inches.**

3.12**CONNECTIONS**

- A. Drawings indicate general arrangement of piping and specialties. The following are specific connection requirements:**
- B. Install piping adjacent to equipment to allow service and maintenance.**
- C. Connect chemical-waste piping to sinks, specialties, accessories, and equipment. Use chemical-resistant coupling, adapter, or fitting as required for materials being joined.**
- D. Connect chemical-waste, force-main piping to pumps, specialties, accessories, and equipment. Use chemical-resistant coupling, adapter, or fitting as required for materials being joined.**
- E. Ground equipment.**
- F. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.**
- G. Arrange for electric-power connections to specialties and devices that require power. Electric power, wiring, and disconnect switches are specified in Division 16 Sections.**

3.13**LABELING AND IDENTIFICATION**

- A. Install labeling and pipe markers on equipment and piping according to requirements in Division 23 Section "Basic Mechanical Materials and Methods & Mechanical Identification."**
- B. Label pressure piping with system operating pressure.**

END OF SECTION 22 11 30

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Addendum No. 3 - Attachment III

NYC DEPARTMENT OF CORRECTION

Agency PIN: 072202004CPD

Project Description: Methane Mitigation and Detection System Upgarde at Central Warehouse Facility

PLAN HOLDERS LIST

	Company Name	Email Address
1	Welsbach Electrical	Skuburovic@emcor.net
2	Rocon Electric	lmedasani@roconcorporation.com
3	PJS Electric	jduraes@ipjs.com
4	Crescent Contracting Corp.	dmorillo@crescentcontracting.com
5	Sea Breeze General Construction, Inc.	jenny@seabreezegc.com
6	Welkin Mechanical	Mthangarajah@welkinmechanical.com
7	Infinity Contracting Corp	Pwarshaw@infintycsc.com
8	Technico Contstruction Services, Inc.	Gpipergias@technico-csi.com
9	EAI Inc.	Zaraht@eaienviro.com