



Addendum No.: 1

Date Of Addendum: May 2, 2019

CT DAS • Construction Services • Office of Legal Affairs, Policy, and Procurement

Norwalk Roof and HVAC
Department of Motor Vehicles Branch Office Facility
540 Main Avenue
Norwalk, CT
BI – MM – 53

Original Bid Due Date / Time:

May 29, 2019

1:00 PM

Previous Addendums: None

TO: Prospective Bid Proposers:

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated January 22, 2019. Prospective Bid Proposers shall acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form.

Failure to acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form shall subject Bid Proposers to disqualification.

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1:

In Section 01 11 00, Paragraph 1.6 B

DELETE: Paragraph 1.6.B

SUBSTITUTE: Paragraph 1.6.B - The entire Project shall be constructed in one Phase. Work of these Phase(s) shall be substantially complete, ready for occupancy within one hundred and sixty (160) Calendar Days of commencement of the Work (the "Contract Time").

Item 2:

In Section 01 50 00, Paragraph 1.6 B

DELETE: Paragraph 3.3.B

SUBSTITUTE: Paragraph 3.3.B

B. Field Offices: Provide insulated, weathertight temporary offices of sufficient size to accommodate required office personnel at the Project Site. Keep all offices clean and orderly, sweep weekly and remove rubbish on a daily basis. Furnish and equip offices as follows:

- 1. The Contractor shall provide an office for their own use and a method to contact them by e-mail and telephone at any point and time.
2. Owner and Construction Administrator's Field Offices / Equipment: The Contractor shall provide a field office for the Owner and Construction Administrator. The field office shall be one (1) single wide trailer 12' x 60'. The trailer shall have to be in "new condition" as determined by the Construction Administrator. The trailer shall have a minimum of two (2) offices, each with a minimum of 150 square feet each, and a main meeting area. The trailers shall have ample natural light, heating of sufficient capacity to maintain 70 degrees (F) in winter and air conditioning of sufficient capacity to maintain 75 degrees (F) in summer. The operational noise level of the supplied HVAC systems shall be low enough so as not to impede the conducting of meetings. The Contractor shall provide a 5-lb. ABC fire extinguisher and an OSHA- approved first aid kit. The Contractor shall provide the following furniture, and equipment which will remain his property. The furniture may be used but shall be in good condition as judged by the Owner and Construction Administrator.

Table with 2 columns: Item Number and Description. Row 1: 2.1 The Contractor shall provide a lockable chemical toilet(s) with toilet tissue for the owners' use. Row 2: 2.2 One (1) Lockable, double-pedestal, office desk, with an executive chair. Row 3: 2.3 Ten (10) Conference chairs and a conference table (approx. 5 feet x 12 feet).



Addendum No.: 1

Date Of Addendum: May 2, 2019

2.4	One (1) Side table (approx. 3 feet x 5 feet).
2.5	One (1) Wall mounted, cork display board (4 foot x 6 foot).
2.6	One (1) Wall mounted, white, wipe-off board, with markers (3 foot x 4 foot).
2.7	One (1) File cabinet (lockable four drawer letter size).
2.8	Two (2) Bookshelves each with 10 linear feet x 12 inch wide shelving.
2.9	Two (2) Large capacity waste receptacles.
2.10	One (1) Plain paper, Fax Machine with dedicated telephone line approved by Owner.
2.11	Two (2) Telephones with telephone lines and voice mail.
2.12	Two (2) Telephones lines (dedicated to computer use) with high-speed Internet connection (minimum of DSL or cable modem service).

Item 3:

Add Section 22 11 25, Facility Natural Gas Piping, and Pages 1-9 (attached).

Item 4:

Pre-Bid Meeting Minutes (attached)

Item 5:

Pre-Bid Meeting Attendance Log (attached)

All questions must be emailed (not verbal or by phone) to the consulting Architect/Engineer Paul Lanteri, Email: (planteri@wje.com) with copies sent to the DAS/CS Project Manager Lisa Humble, Email: (lisa.humble@ct.gov).

End of Addendum Number 1

Mellanee Walton, Associate Fiscal Administrative Officer
State of Connecticut
Department of Administrative Services, Construction Services
Office of Legal Affairs, Policy, and Procurement
450 Columbus Boulevard, Suite 1302
Hartford, CT 06103

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Pipes, tubes, and fittings.
 - 2. Piping specialties.
 - 3. Piping and tubing joining materials.
 - 4. Manual gas shutoff valves.
 - 5. Pressure regulators.
 - 6. Dielectric fittings.

1.3 DEFINITIONS

- A. Finished Spaces: Spaces other than mechanical and electrical equipment rooms, furred spaces, pipe and duct shafts, unheated spaces immediately below roof, spaces above ceilings, unexcavated spaces, crawlspace, and tunnels.
- B. Exposed, Interior Installations: Exposed to view indoors. Examples include finished occupied spaces and mechanical equipment rooms.
- C. Exposed, Exterior Installations: Exposed to view outdoors or subject to outdoor ambient temperatures and weather conditions. Examples include rooftop locations.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of the following:
 - 1. Piping specialties.
 - 2. Valves. Include pressure rating, capacity, settings, and electrical connection data of selected models.
 - 3. Pressure regulators. Indicate pressure ratings and capacities.
 - 4. Dielectric fittings.
- B. Shop Drawings: For facility natural-gas piping layout. Include plans, piping layout and elevations, sections, and details for fabrication of pipe anchors, hangers, supports for multiple pipes, alignment guides, expansion joints and loops, and attachments of the same to building structure. Detail location of anchors, alignment guides, and expansion joints and loops.
 - 1. Shop Drawing Scale: 1/4 inch per foot.
- C. Delegated-Design Submittal: For natural-gas piping and equipment indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
 - 1. Detail fabrication and assembly of seismic restraints.
 - 2. Design Calculations: Calculate requirements for selecting seismic restraints.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Plans and details, drawn to scale, on which natural-gas piping is shown and coordinated with other installations, using input from installers of the items involved.
- B. Site Survey: Plans, drawn to scale, on which natural-gas piping is shown and coordinated with other services and utilities.
- C. Qualification Data: For qualified professional engineer.
- D. Welding certificates.

- E. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For pressure regulators to include in emergency, operation, and maintenance manuals.

1.7 QUALITY ASSURANCE

- A. Steel Support Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- B. Pipe Welding Qualifications: Qualify procedures and operators according to ASME Boiler and Pressure Vessel Code.
- 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 application.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Handling Flammable Liquids: Remove and dispose of liquids from existing natural-gas piping according to requirements of authorities having jurisdiction.
- B. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.
- C. Store and handle pipes and tubes having factory-applied protective coatings to avoid damaging coating and protect from direct sunlight.

1.9 PROJECT CONDITIONS

- A. Perform site survey, research public utility records, and verify existing utility locations. Contact utility-locating service for area where Project is located.
- B. Interruption of Existing Natural-Gas Service: Do not interrupt natural-gas service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide purging and startup of natural-gas supply according to requirements indicated:
 - 1. Notify Construction Manager and Owner no fewer than two days in advance of proposed interruption of natural-gas service.
 - 2. Do not proceed with interruption of natural-gas service without Construction Manager's and Owner's written permission.

1.10 COORDINATION

- A. Coordinate sizes and locations of concrete bases with actual equipment provided.
- B. Coordinate requirements for access panels and doors for valves installed concealed behind finished surfaces. Comply with requirements in Section 08 31 13 "Access Doors and Frames."

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Minimum Operating-Pressure Ratings:
 - 1. Piping and Valves: 100 psig minimum unless otherwise indicated.
 - 2. Service Regulators: 65 psig minimum unless otherwise indicated.
- B. Natural-Gas System Pressure within Buildings: 0.5 psig or less.
- C. Delegated Design: Design restraints and anchors for natural-gas piping and equipment, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

2.2 PIPES, TUBES, AND FITTINGS

- A. Steel Pipe: ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B.
 - 1. Malleable-Iron Threaded Fittings: ASME B16.3, Class 150, standard pattern.

2. Wrought-Steel Welding Fittings: ASTM A 234/A 234M for butt welding and socket welding.
3. Unions: ASME B16.39, Class 150, malleable iron with brass-to-iron seat, ground joint, and threaded ends.
4. Forged-Steel Flanges and Flanged Fittings: ASME B16.5, minimum Class 150, including bolts, nuts, and gaskets of the following material group, end connections, and facings:
 - a. Material Group: 1.1.
 - b. End Connections: Threaded or butt welding to match pipe.
 - c. Lapped Face: Not permitted underground.
 - d. Gasket Materials: ASME B16.20, metallic, flat, asbestos free, aluminum o-rings, and spiral-wound metal gaskets.
 - e. Bolts and Nuts: ASME B18.2.1 (bolts), ASME B18.2.2 (nuts) carbon steel aboveground and stainless-steel underground.
 - f. Joint Cover Kits: Epoxy paint, adhesive, and heat-shrink PE sleeves.

2.3 PIPING SPECIALTIES

- A. Weatherproof Vent Cap: Cast- or malleable-iron increaser fitting with corrosion-resistant wire screen, with free area at least equal to cross-sectional area of connecting pipe and threaded-end connection.

2.4 JOINING MATERIALS

- A. Joint Compound and Tape: Suitable for natural gas.
- B. Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
- C. Brazing Filler Metals: Alloy with melting point greater than 1000 deg F complying with AWS A5.8/A5.8M. Brazing alloys containing more than 0.05 percent phosphorus are prohibited.

2.5 MANUAL GAS SHUTOFF VALVES

- A. See "Underground Manual Gas Shutoff Valve Schedule" and "Aboveground Manual Gas Shutoff Valve Schedule" Articles for where each valve type is applied in various services.
- B. General Requirements for Metallic Valves, NPS 2 and Smaller: Comply with ASME B16.33.
 1. CWP Rating: 125 psig.
 2. Threaded Ends: Comply with ASME B1.20.1.
 3. Dryseal Threads on Flare Ends: Comply with ASME B1.20.3.
 4. Tamperproof Feature: Locking feature for valves indicated in "Underground Manual Gas Shutoff Valve Schedule" and "Aboveground Manual Gas Shutoff Valve Schedule" Articles.
 5. Listing: Listed and labeled by an NRTL acceptable to authorities having jurisdiction for valves 1 inch and smaller.
 6. Service Mark: Valves 1-1/4 inches to NPS 2 shall have initials "WOG" permanently marked on valve body.
- C. General Requirements for Metallic Valves, NPS 2-1/2 and Larger: Comply with ASME B16.38.
 1. CWP Rating: 125 psig.
 2. Flanged Ends: Comply with ASME B16.5 for steel flanges.
 3. Tamperproof Feature: Locking feature for valves indicated in "Underground Manual Gas Shutoff Valve Schedule" and "Aboveground Manual Gas Shutoff Valve Schedule" Articles.
 4. Service Mark: Initials "WOG" shall be permanently marked on valve body.
- D. Two-Piece, Full-Port, Bronze Ball Valves with Bronze Trim: MSS SP-110.
 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. A.Y. McDonald Mfg. Co.
 - b. Apollo Valves; Conbraco Industries, Inc.

- c. BrassCraft Manufacturing Co.; a Masco company.
 - d. Lyall, R. W. & Company, Inc.
 - e. Perfection Corporation.
 2. Body: Bronze, complying with ASTM B 584.
 3. Ball: Chrome-plated bronze.
 4. Stem: Bronze; blowout proof.
 5. Seats: Reinforced TFE; blowout proof.
 6. Packing: Threaded-body packnut design with adjustable-stem packing.
 7. Ends: Threaded, flared, or socket as indicated in "Underground Manual Gas Shutoff Valve Schedule" and "Aboveground Manual Gas Shutoff Valve Schedule" Articles.
 8. CWP Rating: 600 psig.
 9. Listing: Valves NPS 1 and smaller shall be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
 10. Service: Suitable for natural-gas service with "WOG" indicated on valve body.
- E. Bronze Plug Valves: MSS SP-78.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. A.Y. McDonald Mfg. Co.
 - b. Lee Brass Company.
 - c. Hammond
 - d. NIBCO
 2. Body: Bronze, complying with ASTM B 584.
 3. Plug: Bronze.
 4. Ends: Threaded, socket, or flanged as indicated in "Aboveground Manual Gas Shutoff Valve Schedule" Articles.
 5. Operator: Square head or lug type with tamperproof feature where indicated.
 6. Pressure Class: 125 psig.
 7. Listing: Valves NPS 1 and smaller shall be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
 8. Service: Suitable for natural-gas service with "WOG" indicated on valve body.
- F. Cast-Iron, Nonlubricated Plug Valves: MSS SP-78.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. A.Y. McDonald Mfg. Co.
 - b. Mueller Co.
 - c. Xomox Corporation.
 2. Body: Cast iron, complying with ASTM A 126, Class B.
 3. Plug: Bronze or nickel-plated cast iron.
 4. Seat: Coated with thermoplastic.
 5. Stem Seal: Compatible with natural gas.
 6. Ends: Threaded or flanged as indicated in "Underground Manual Gas Shutoff Valve Schedule" and "Aboveground Manual Gas Shutoff Valve Schedule" Articles.
 7. Operator: Square head or lug type with tamperproof feature where indicated.
 8. Pressure Class: 125 psig.
 9. Listing: Valves NPS 1 and smaller shall be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
 10. Service: Suitable for natural-gas service with "WOG" indicated on valve body.

- G. Cast-Iron, Lubricated Plug Valves: MSS SP-78.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. A.Y. McDonald Mfg. Co.
 - b. Homestead Valve.
 - c. Milliken Valve Company.
 - d. Mueller Co.
 2. Body: Cast iron, complying with ASTM A 126, Class B.
 3. Plug: Bronze or nickel-plated cast iron.
 4. Seat: Coated with thermoplastic.
 5. Stem Seal: Compatible with natural gas.
 6. Ends: Threaded or flanged as indicated in "Underground Manual Gas Shutoff Valve Schedule" and "Aboveground Manual Gas Shutoff Valve Schedule" Articles.
 7. Operator: Square head or lug type with tamperproof feature where indicated.
 8. Pressure Class: 125 psig.
 9. Listing: Valves NPS 1 and smaller shall be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
 10. Service: Suitable for natural-gas service with "WOG" indicated on valve body.

2.6 DIELECTRIC FITTINGS

- A. General Requirements: Assembly of copper alloy and ferrous materials with separating nonconductive insulating material. Include end connections compatible with pipes to be joined.
- B. Dielectric Unions:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. A.Y. McDonald Mfg. Co.
 - b. Capitol Manufacturing Company.
 - c. Jomar Valve.
 - d. Matco-Norca.
 - e. WATTS.
 - f. Wilkins.
 - g. Zurn Industries, LLC.
 2. Description:
 - a. Standard: ASSE 1079.
 - b. Pressure Rating: 125 psig minimum at 180 deg F.
 - c. End Connections: Solder-joint copper alloy and threaded ferrous.
- C. Dielectric Flanges:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Capitol Manufacturing Company.
 - b. Central Plastics Company.
 - c. Matco-Norca.
 - d. WATTS.
 - e. Wilkins.
 - f. Description:
 - g. Standard: ASSE 1079.

- h. Factory-fabricated, bolted, companion-flange assembly.
 - i. Pressure Rating: 125 psig minimum at 180 deg F.
 - j. End Connections: Solder-joint copper alloy and threaded ferrous; threaded solder-joint copper alloy and threaded ferrous.
- D. Dielectric-Flange Insulating Kits:
- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Advance Products & Systems, Inc.
 - b. Calpico, Inc.
 - c. Central Plastics Company.
 - d. Pipeline Seal and Insulator, Inc.
 - 2. Description:
 - a. Nonconducting materials for field assembly of companion flanges.
 - b. Pressure Rating: 150 psig.
 - c. Gasket: Neoprene or phenolic.
 - d. Bolt Sleeves: Phenolic or polyethylene.
 - e. Washers: Phenolic with steel backing washers.

2.7 LABELING AND IDENTIFYING

- A. Detectable Warning Tape: Acid- and alkali-resistant, PE film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches wide and 4 mils thick, continuously inscribed with a description of utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored yellow.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine roughing-in for natural-gas piping system to verify actual locations of piping connections before equipment installation.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Close equipment shutoff valves before turning off natural gas to premises or piping section.
- B. Inspect natural-gas piping according to NFPA 54 to determine that natural-gas utilization devices are turned off in piping section affected.
- C. Comply with NFPA 54 requirements for prevention of accidental ignition.

3.3 OUTDOOR PIPING INSTALLATION

- A. Comply with NFPA 54 for installation and purging of natural-gas piping.
- B. Install underground, natural-gas piping buried at least 36 inches below finished grade. Comply with requirements in Section 31 20 00 "Earth Moving" for excavating, trenching, and backfilling.
 - 1. If natural-gas piping is installed less than 36 inches below finished grade, install it in containment conduit.
- C. Steel Piping with Protective Coating:
 - 1. Apply joint cover kits to pipe after joining to cover, seal, and protect joints.
 - 2. Repair damage to PE coating on pipe as recommended in writing by protective coating manufacturer.
 - 3. Replace pipe having damaged PE coating with new pipe.
- D. Install fittings for changes in direction and branch connections.

- E. Install pressure gage upstream and downstream from each service regulator. Pressure gages are specified in Section 22 05 19 "Meters and Gages for Plumbing Piping."

3.4 INDOOR PIPING INSTALLATION

- A. Comply with NFPA 54 for installation and purging of natural-gas piping.
- B. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicated locations and arrangements are used to size pipe and calculate friction loss, expansion, and other design considerations. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.
- C. Arrange for pipe spaces, chases, slots, sleeves, and openings in building structure during progress of construction, to allow for mechanical installations.
- D. Install piping in concealed locations unless otherwise indicated and except in equipment rooms and service areas.
- E. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.
- F. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal.
- G. Locate valves for easy access.
- H. Install natural-gas piping at uniform grade of 2 percent down toward drip and sediment traps.
- I. Install piping free of sags and bends.
- J. Install fittings for changes in direction and branch connections.
- K. Verify final equipment locations for roughing-in.
- L. Comply with requirements in Sections specifying gas-fired appliances and equipment for roughing-in requirements.
- M. Drips and Sediment Traps: Install drips at points where condensate may collect, including service-meter outlets. Locate where accessible to permit cleaning and emptying. Do not install where condensate is subject to freezing.
 - 1. Construct drips and sediment traps using tee fitting with bottom outlet plugged or capped. Use nipple a minimum length of 3 pipe diameters, but not less than 3 inches long and same size as connected pipe. Install with space below bottom of drip to remove plug or cap.
- N. Extend relief vent connections for service regulators, line regulators, and overpressure protection devices to outdoors and terminate with weatherproof vent cap.
- O. Conceal pipe installations in walls, pipe spaces, utility spaces, above ceilings, below grade or floors, and in floor channels unless indicated to be exposed to view.
- P. Concealed Location Installations: Except as specified below, install concealed natural-gas piping and piping installed under the building in containment conduit constructed of steel pipe with welded joints as described in Part 2. Install a vent pipe from containment conduit to outdoors and terminate with weatherproof vent cap.
 - 1. Above Accessible Ceilings: Natural-gas piping, fittings, valves, and regulators may be installed in accessible spaces without containment conduit.
 - 2. Prohibited Locations:
 - a. Do not install natural-gas piping in or through circulating air ducts, clothes or trash chutes, chimneys or gas vents (flues), ventilating ducts, or dumbwaiter or elevator shafts.
 - b. Do not install natural-gas piping in solid walls or partitions.
- Q. Use eccentric reducer fittings to make reductions in pipe sizes. Install fittings with level side down.
- R. Connect branch piping from top or side of horizontal piping.
- S. Install unions in pipes NPS 2 and smaller, adjacent to each valve, at final connection to each piece of equipment. Unions are not required at flanged connections.
- T. Do not use natural-gas piping as grounding electrode.
- U. Install strainer on inlet of each line-pressure regulator and automatic or electrically operated valve.

3.5 VALVE INSTALLATION

- A. Install regulators and overpressure protection devices with maintenance access space adequate for servicing and testing.

3.6 PIPING JOINT CONSTRUCTION

- A. Ream ends of pipes and tubes and remove burrs.
- B. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.
- C. Threaded Joints:
 - 1. Thread pipe with tapered pipe threads complying with ASME B1.20.1.
 - 2. Cut threads full and clean using sharp dies.
 - 3. Ream threaded pipe ends to remove burrs and restore full inside diameter of pipe.
 - 4. Apply appropriate tape or thread compound to external pipe threads unless dryseal threading is specified.
 - 5. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.
- D. Welded Joints:
 - 1. Construct joints according to AWS D10.12/D10.12M, using qualified processes and welding operators.
 - 2. Bevel plain ends of steel pipe.
 - 3. Patch factory-applied protective coating as recommended by manufacturer at field welds and where damage to coating occurs during construction.
- E. Flanged Joints: Install gasket material, size, type, and thickness appropriate for natural-gas service. Install gasket concentrically positioned.

3.7 HANGER AND SUPPORT INSTALLATION

- A. Install hangers for horizontal steel piping with the following maximum spacing and minimum rod sizes:
 - 1. NPS 1 and Smaller: Maximum span, 96 inches; minimum rod size, 3/8 inch.
 - 2. NPS 1-1/4: Maximum span, 108 inches; minimum rod size, 3/8 inch.
 - 3. NPS 1-1/2 and NPS 2: Maximum span, 108 inches; minimum rod size, 3/8 inch.
 - 4. NPS 2-1/2 to NPS 3-1/2: Maximum span, 10 feet; minimum rod size, 1/2 inch.
 - 5. NPS 4 and Larger: Maximum span, 10 feet; minimum rod size, 5/8 inch.

3.8 CONNECTIONS

- A. Install piping adjacent to appliances to allow service and maintenance of appliances.
- B. Connect piping to appliances using manual gas shutoff valves and unions. Install valve within 72 inches of each gas-fired appliance and equipment. Install union between valve and appliances or equipment.
- C. Sediment Traps: Install tee fitting with capped nipple in bottom to form drip, as close as practical to inlet of each appliance.

3.9 LABELING AND IDENTIFYING

- A. Install detectable warning tape directly above gas piping, 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

3.10 PAINTING

- A. Comply with requirements in Section 09 91 13 "Exterior Painting" and Section 09 91 23 "Interior Painting" for painting interior and exterior natural-gas piping.
- B. Paint exposed, exterior metal piping, valves, service regulators, service meters and meter bars, earthquake valves, and piping specialties, except components, with factory-applied paint or protective coating.

1. Alkyd System: MPI EXT 5.1D.
 - a. Prime Coat: Alkyd anticorrosive metal primer.
 - b. Intermediate Coat: Exterior alkyd enamel matching topcoat.
 - c. Topcoat: Exterior alkyd enamel (semigloss).
 - d. Color: Gray.
- C. Paint exposed, interior metal piping, valves, service regulators, service meters and meter bars, earthquake valves, and piping specialties, except components, with factory-applied paint or protective coating.
 1. Latex Over Alkyd Primer System: MPI INT 5.1Q.
 - a. Prime Coat: Alkyd anticorrosive metal primer.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex (semigloss).
 - d. Color: Gray.
 2. Alkyd System: MPI INT 5.1E.
 - a. Prime Coat: Alkyd anticorrosive metal primer.
 - b. Intermediate Coat: Interior alkyd matching topcoat.
 - c. Topcoat: Interior alkyd (semigloss).
 - d. Color: Gray.
- D. Damage and Touchup: Repair marred and damaged factory-applied finishes with materials and by procedures to match original factory finish.

3.11 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Tests and Inspections:
 1. Test, inspect, and purge natural gas according to NFPA 54 and authorities having jurisdiction.
 2. The gas purge procedure shall be reviewed and approved by OSFM.
- C. Natural-gas piping will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.12 PIPING SCHEDULE

- A. Refer to Piping Schedule on Drawings.

3.13 GAS SHUTOFF VALVE SCHEDULE

- A. Refer to Valve Schedule on Drawings.

END OF SECTION 22 11 25

Pre-Bid Meeting Minutes:

DAS • Construction Services • Office of Legal Affairs, Policy, and Procurement

1.0 Pre-Bid Meeting:

1.1

Project BI-MM-53 - Norwalk Roof and HVAC
Department of Motor Vehicles Branch Office Facility Norwalk, CT

10:00 AM April 29, 2019 at Department of Motor Vehicles Branch Office Facility
Norwalk, CT

Bid Opening: May 29, 2019 at 1:00

Last day for bidder's questions: May 22, 2019 at 5:00 PM

1.2

Attendance:

1.2.1	General Contractor:	Attendance at the Pre-Bid Meeting is strongly encouraged.
1.2.2	Subcontractors:	Attendance at the Pre-Bid Meeting is recommended.
1.2.3	Pre-Bid Meeting Sign-in Sheet:	It is strongly encouraged that all attendees sign the Pre-Bid Meeting Sign-in Sheet.

1.3

Site/Facility Visit or Walkthrough: There will be no additional site visits permitted prior to Bid Date.

1.3.1 X A Site/Facility Visit or Walkthrough was conducted at the Pre-Bid Meeting.

1.4

Bidder Questions:

1.4.1 There were no bidder questions prior to the Pre-Bid Meeting.

2.0 Pre-Bid Meeting Agenda:

2.1

Introduction of Participants:

2.1.1	Architect/Engineer:	Wiss, Janney, Elstner Associates, Inc. - Paul Lanteri, Project Manager
2.1.2	CA:	TBD
2.1.3	DAS Representative:	Lisa Humble, Project Manager
2.1.4	Agency Representative:	Angelo Cavaliere, Building Maintenance Supervisor

2.0 Pre-Bid Meeting Agenda (continued):

2.2

Project Summary:

2.2.1	Summary of Work: See General Requirements Section 01 11 00
	1. Replacement of the approximately 15,000 S.F. existing roofing system to the existing steel roof deck. Design shall comply with Factory Mutual Global requirements.
	2. Repairs to ceilings and paint finishes damaged by HVAC work.
	3. Replacement of building's existing four (4) Lennox HVAC units.
	4. Upgrade the existing interior building's HVAC system's zoning and operation.

2.2.2	<p>Temporary Facilities and Controls: See General Requirements Section 01 50 00</p> <ol style="list-style-type: none"> 1. Field offices – Contractor, Subcontractor, Owner, and Construction Administrator. Field trailer shall include a separate office for Owner and Construction Administrator. This will be clarified in an Addendum (Refer to Addendum No. 1 dated May 1, 2019). 2. Storage and fabrication sheds. 3. Temporary lifts and hoists. 4. Temporary project identification signs. 5. Temporary exterior lighting at any sidewalk protection installed. 6. Collection and disposal of waste and cleaning. 7. Temporary Environmental Controls. 8. Safe access to roof. 9. Temporary Fire Protection 10. Security for Site and Agency 11. Barricades, warning signs, and lights. 12. Enclosure fence. 13. Security enclosure and lockup. 14. Protection at all building access points and at roof perimeter. 15. Environmental protection. 14. Traffic ways to be kept clear at all times 15. Identification badges for Contractor’s personnel & parking stickers. Identification badges and parking stickers are the responsibility of the Contractor. 16. Building’s water and electrical may be used for the project.
2.2.3	<p>Work Sequence: See General Requirements Section 01 11 00</p> <p>All interior work to be completed on Sundays and Mondays between 8 AM and 5PM, unless other times are permitted by DAS and the Agency.</p> <p>Off hours work may be scheduled following 72 hour notice and approval by DAS and the Agency. Contractor will be responsible for payment for Agency security staff during off hours work.</p>
2.2.4	<p>Contractor Use of Premises: See General Requirements Section 01 11 00</p> <p>Building will be occupied by Agency and Public Tuesday through Saturday</p>
2.2.5	<p>Project Schedule</p> <p>Work shall be substantially complete within 160 calendar days of commencement of work.</p> <p>Submittals may be submitted to WJE prior to commencement of work.</p>
2.2.6	<p>Contract Time</p> <p>Work shall be substantially complete within 160 calendar days of commencement of work.</p>
2.2.7	<p>Liquidated Damages: See General Conditions Section 00 73 13, Articles 1 and 8, and 00 41 00 Bid Proposal Form.</p> <ol style="list-style-type: none"> 1. \$1,359 per calendar day beyond substantial completion date 2. \$1,059 per calendar day beyond 90 days after substantial completion date

2.3	Procurement and Contracting Requirements:
2.3.1	Section 00 11 16 – Invitation to Bid
2.3.2	Section 00 21 13 – Instructions to Bidders
2.3.3	Section 00 41 00 – Bid Proposal Form
2.3.4	Section 00 41 10 – Bid Package Submittal Requirements
2.3.5	Section 00 30 00 – General Statements for Available information
2.3.6	<p>Division 50 – Project-Specific Available Information</p> <ol style="list-style-type: none"> 1. Refer to this section for Haz Mat Report 2. FM Global approval required for all roofing work 3. Special inspections are required for welding and structural steel work

2.3.7	Bonding - Refer to Project Manual
2.3.8	Insurance - Refer to Project Manual
2.3.9	Bid Security - Refer to Project Manual
2.3.10	Notice of Award - Bids will be publicly opened on May 29, 2019 and posted on the DAS Website

2.4 Communication During Bidding Period:

2.4.1	Obtaining Bid Documents
2.4.2	Access to DAS Website, BizNet, and State Contracting Portal
2.4.3	Bidder's Requests for Information: See General Requirements Sections 01 26 00
2.4.4	<p>Substitution Procedures (Prior to Bid): See General Requirements Section 01 25 00 & General Conditions Section 00 73 13, Article 15.</p> <p>The Owner will consider Pre-Bid Equals or Substitutions Requests, if made fourteen (14) Calendar Days prior to the Bid Due Date. The information on all materials shall be consistent with the information herein.</p>
2.4.5	<p>Substitutions following Contract Award: See General Requirements Section 01 25 00 & General Conditions Section 00 73 13, Article 15.</p> <p>Subject to the Architect or Engineer's determination, if the material or equipment is Equal to the one specified or pre-qualified and the DAS/CS Project Manager's approval of such determination, Substitution of Material or Equipment may be allowed after the Letter of Award is issued, as specified in the Conditions Section 00 73 13, Article 15.</p>
2.4.6	Addenda Procedures: See Item No. 2.7 of this form

2.5 Contract Considerations:

2.5.1	Allowances: See General Requirements Section 01 20 00
2.5.2	Unit Prices: See General Requirements Section 01 20 00
2.5.3	Supplemental Bid: See General Requirements Section 01 23 13 and 00 41 00 Bid Proposal Form.

2.6 Separate Contracts:

2.6.1	Work by Owner
2.6.2	Work of Other Contracts

2.7 Post Pre-Bid Meeting Addendum:

2.7.1	<p><u>No Interpretations</u> of the meaning of the plans, specifications or other contract documents will be made orally at any time. Every bidder request for such interpretation shall be in writing to the awarding authority and to be given consideration shall be received at least fourteen (14) Calendar Days prior to the Bid Due Date. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, <i>if</i> issued, will be posted on the State Contracting Portal.</p>
2.7.2	<p>Other Bidder Questions</p> <p>Bidders are to refer to Contract Documents for Contractor's laydown, set up and storage area, etc.</p>

2.8 Other Agenda Topics and Notes:

2.8.1	Walk through of Project Area.
-------	-------------------------------

3.0 Pre-Bid Meeting Minutes:

3.1 Recording and Distribution of Pre-Bid Meeting Minutes:

3.1.1	The Architect is responsible for conducting the Pre-Bid Meeting and will record and distribute meeting minutes to attendees.
-------	--

3.2 Pre-Bid Meeting Minutes as “Available Information”

3.2.1 Minutes of the Pre-Bid Meeting are issued as “Available Information” and **do not** constitute a modification to the Procurement and Contracting Documents. **Modifications to the Procurement and Contracting Documents are issued by written Addendum only.**

3.3 Pre-Bid Meeting Sign-in Sheet:

3.3.1 Minutes will include the list of meeting attendees.
See attachment.

**End of Section
Pre-Bid Meeting Minutes**



Bid Phase Meeting Attendance Log

DAS/CS Project Title:	Norwalk Roof and HVAC, Department of Motor Vehicles Branch Office Facility		
DAS/CS Project No.:	BI-MM-53	Meeting Purpose:	
Date:	MONDAY - April 29, 2019	X	Pre-Bid Meeting
Meeting Start Time:	10:00 am		Post Bid Review Meeting
Meeting Location:	Norwalk Department of Motor Vehicles 540 Main Avenue, Norwalk, CT 06851 <u>Meet in public customer/visitor room.</u>	Other:	

Name:	Tom Leith	Title:	Pres
Company/Department:	New Britain Rtg	E-mail:	NBR987@Yahoo.com
Street:	105 Day St	Phone:	860-490-2790
City/State/Zip:	Newington Ct 06111	FAX:	860-953-2051

Name:	Patricia Martelli	Title:	Est.
Company/Department:	Greenwood Industries	E-mail:	JRyon@Greenwood-Industries.com
Street:	30 Leonard Drive	Phone:	508-328-1224
City/State/Zip:	North Haven CT	FAX:	203-234-2074

Name:	Chris Coma	Title:	Estimator
Company/Department:	Barrett Inc	E-mail:	CCOMA@barrettroofing.com
Street:	106 Mill Plain Road	Phone:	603-744-2780
City/State/Zip:	Danbury, CT 06811	FAX:	

Name:	Jeff Blair	Title:	Estimator
Company/Department:	young developers	E-mail:	Robertyd19@icloud.com
Street:	42A Crestway	Phone:	203-859-5320
City/State/Zip:	Hamden CT	FAX:	888-503-2508

Name:	Bjorn Wisewo	Title:	member
Company/Department:	Shoveline Construction & Rigging LLC	E-mail:	Bjornshoveline@gmail.com
Street:	44 Buehard Lane	Phone:	203-515-8096
City/State/Zip:	Roxbury Ct 06853	FAX:	

Name:	Kevin Guertin	Title:	
Company/Department:	Roofers & Waterproofers L.V. 12	E-mail:	Kevin.rooferslocal12.com
Street:	19 Bernhard Rd	Phone:	203-707-4427
City/State/Zip:	North Haven CT 06473	FAX:	



Bid Phase Meeting Attendance Log

DAS/CS Project Title:	Norwalk Roof and HVAC, Department of Motor Vehicles Branch Office Facility		
DAS/CS Project No.:	BI-MM-53	Meeting Purpose:	
Date:	MONDAY – April 29, 2019	X	Pre-Bid Meeting
Meeting Start Time:	10:00 am		Post Bid Review Meeting
Meeting Location:	Norwalk Department of Motor Vehicles 540 Main Avenue, Norwalk, CT 06851 <u>Meet in public customer/visitor room.</u>	Other:	

Name:	BILLY CROCE	Title:	SUPT
Company/Department:	SILKTOWN ROOFING	E-mail:	billcroce@silktownroofing.com
Street:	51 WATER ST.	Phone:	203-735-0552
City/State/Zip:	DERBY CT.	FAX:	203-732-7649

Name:	Lisa Humble	Title:	DAS/Project Manager
Company/Department:	DAS/State of CT/CONSTRUCTION SERVICES	E-mail:	lisa.humble@ct.gov
Street:	450 COLUMBUSTED.	Phone:	860-713-5873
City/State/Zip:	Hartford, CT	FAX:	

Name:	Paul Lauteri	Title:	Architect
Company/Department:	X/JE	E-mail:	plauteri@wje.com
Street:	2 Trap Falls Rd Suite 502	Phone:	203-944-9424
City/State/Zip:	Shelton, CT 06484	FAX:	

Name:	Pedro Rosario	Title:	Manager
Company/Department:	Stanley Steamer Air Duct cleaning	E-mail:	Pedro.Rosario@steamer.com
Street:	Hartford ct,	Phone:	860 218-8483
City/State/Zip:	CT, 06114	FAX:	

Name:	Abby Lawson	Title:	FAS
Company/Department:	DMV	E-mail:	ahisail.lawson@ct.gov
Street:	60 STATE ST	Phone:	860 243 5002
City/State/Zip:	WATERBURY CT 04161	FAX:	

Name:	Angelo Cavaliere	Title:	Bldg Supervisor
Company/Department:	DMV	E-mail:	angelo.cavaliere@ct.gov
Street:	60 STATE ST	Phone:	860 243 5011
City/State/Zip:	WATERBURY CT 06161	FAX:	



Bid Phase Meeting Attendance Log

DAS/CS Project Title:	Norwalk Roof and HVAC, Department of Motor Vehicles Branch Office Facility		
DAS/CS Project No.:	BI-MM-53	Meeting Purpose:	
Date:	MONDAY – April 29, 2019	X	Pre-Bid Meeting
Meeting Start Time:	10:00 am		Post Bid Review Meeting
Meeting Location:	Norwalk Department of Motor Vehicles 540 Main Avenue, Norwalk, CT 06851 <u>Meet in public customer/visitor room.</u>	Other:	

Name:	<i>Tom Rosenzweig</i>	Title:	<i>ESTIMATOR</i>
Company/Department:	<i>ANTONELLI ROOFING</i>	E-mail:	<i>TROSENZWEIG@ANTONELLIROOFING.COM</i>
Street:	<i>26 CROSBY ST</i>	Phone:	<i>203-353-6956</i>
City/State/Zip:	<i>STAMFORD CT 06906</i>	FAX:	<i>203-967-2012</i>

SEE

Name:	Title:
Company/Department:	E-mail:
Street:	Phone:
City/State/Zip	FAX:

Name:	Title:
Company/Department:	E-mail:
Street:	Phone:
City/State/Zip	FAX:

Name:	Title:
Company/Department:	E-mail:
Street:	Phone:
City/State/Zip	FAX:

Name:	Title:
Company/Department:	E-mail:
Street:	Phone:
City/State/Zip	FAX:

Name:	Title:
Company/Department:	E-mail:
Street:	Phone:
City/State/Zip	FAX: