



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

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October 7, 2013

ADDENDUM NUMBER THREE

RFQ # 7513371

**TITLE: Repairs & Preventive Maintenance for Powers Parking Garage,
Prov.-DOA**

Closing Date and Time: 10/23/13 at 1:45 PM

Per the issuance of this ADDENDUM #3 (7 pages, including this cover sheet)



Specification Change /Addition / Clarifications

Questions and Answers received as of this date:

- 1) Q: Drawings in Addenda #2 not formatted to full size, can only see part of print, please advise.
A: The drawings are scaled to size. The vendors will have to adjust their print dialogue box.
- 2) Q: Cannot find Div. 15 in specifications, please advise.
A: Attached is Section 15413 Drainage which it to be included in the bid specifications.

SECTION 15413
DRAINAGE

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The work under this Division of the Contract shall include all labor, materials, scaffolding, equipment and services necessary for the installation of work related to drainage systems. The work in general shall include, but not be limited to the following:

1. Testing all work.
2. All drains, piping, hangers and flashing for piping.
3. All cutting required for installation of all plumbing work.
4. Guarantee all systems.

1.02 RELATED DOCUMENTS

A. Each Bidder shall examine all existing architectural, structural, plumbing and electrical construction documents relating to this work and shall verify all governing conditions at the site and shall become fully informed as to the extent and character of the work in the building. No consideration will be granted for any alleged misunderstanding of the work to be done, it being understood that the submission of a proposal is an agreement to all items and conditions referred to herein or indicated on the accompanying Drawings.

1.03 REQUIREMENTS OF REGULATORY AGENCIES

A. The following codes and specifications shall govern. In cases of conflict, the more stringent of the requirements shall be adhered to.

1. National Standard Plumbing Code.

B. This Contractor shall secure and pay for any necessary approvals, permits, inspections, etc., before commencing any work so as to avoid all delays during construction and he shall turn over the official records of the granting of permits to the Owner. This shall be done without additional cost to the Owner.

1.04 SUBMITTALS

A. The Plumbing Contractor shall submit shop drawings and manufacturer's data for all equipment and fixtures before work is fabricated and installed.

B. The Contractor shall submit a list of names of manufacturers of the various types of pipe, fittings, valves, appurtenances and equipment properly indicating the specific service for which each item is to be used. After approval of the manufacturers

names, Contractor shall submit complete catalog data or Shop Drawings containing exact description of items to be furnished. Data of a general nature will not be accepted.

- C. Certificates: Submit certificates from product manufacturers indicating materials comply with the referenced standards.

1.05 SUPERVISION

- A. This Contractor shall provide a competent supervisor who shall be constantly on the premises while job is in progress, and who shall familiarize himself with the requirements of all other Contracts, in order that the work may be coordinated and proceed in an efficient manner.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. All materials shall be the best of the respective kinds, suitable for the conditions and duties imposed upon them in service. They shall be the latest standard catalog products of the manufacturers indicated. Where two or more items of the same type of materials or equipment are required, they shall be the product of a single manufacturer.
- B. Where the approval of manufactured article is by catalog number, it shall be construed as applying only to the article proper. All trimmings and fittings required shall be in strict conformity with the specification requirements.
- C. It is hereby distinctly provided that the materials or appliances furnished shall comply with all requirements of the insurance underwriters and local inspection authorities and shall be provided, in all cases, with the necessary auxiliary or incidental trimmings required to make same complete.

2.02 HANGERS AND SUPPORTS

- A. Furnish and install suitable hangers and supports for all piping lines. Hangers and supports shall be Grinnell, Crane or Grable r. Provide supports which in each case will be amply strong and rigid for the load, and which shall not weaken or unduly stress the building construction.
- B. Hangers shall be of heavy construction suitable for the size of pipe to be supported. All materials shall be wrought or malleable iron or steel. Hangers shall be swivel ring, split ring, wrought pipe clamp or adjustable wrought clevis type.
- C. Vertical risers shall be supported by heavy duty hangers installed close to the base of the pipe risers and by riser clamps at each floor level. Risers shall have extension clamps resting on floor slabs.

DRAINAGE

D. Support horizontal piping in accordance with the following schedule.

	Pipe	Max. Hanger Spacing
Cast	Iron Pipe	5'-0"

E. Provide minimum one hanger at each pipe fitting.

2.03 DRAINAGE SYSTEMS

A. Pipe and Fittings:

1. Black iron piping with no hub joints.

B. Drains:

1. Floor drains shall be JR Smith 2131 medium duty drains.
2. Plaza drains shall be JR Smith 2330 - E - S - NB
3. Equal product by Josam or Zurn will be accepted.

C. Cleanouts:

1. Cleanout fittings shall be extra heavy pattern with cast brass screw jointed cleanout plug.
2. In piping larger than 4 inches in diameter, 4 inch cleanout plugs are to be used.
3. Cleanouts on leaders shall be manufactured by Smith or approved equal.

PART 3 - EXECUTION

3.01 INSTALLATIONS

A. Piping:

1. All piping at ceilings shall be hung from the construction above and as close as possible to the bottom of beams, slabs, etc.
2. Horizontal storm piping shall be installed at a uniform grade of not less than 1/8 inch per foot.
3. All risers shall be plumb and true, neatly spaced and parallel with walls and other pipes. Horizontal piping shall be straight and direct as possible, running at right angles with or parallel to walls and beams.
4. Protect all piping from entrance of dirt or other foreign materials during the construction period.
5. Piping shall be cut accurately to measurements established at the site and worked into place without springing or forcing. All cut pipe must have ends reamed and be free from burrs. Install piping to permit free expansion and contraction without damage.

6. Coordinate piping installations with structure, lighting, electrical conduit, and all other materials and equipment. Cutting or other weakening of building structure to facilitate piping installation is not permitted.
7. Provide necessary temporary connections, valves, oversize flushing connections, pumps, etc. as required to properly clean and test systems.

B. Supports and Sleeves:

1. Approved supports shall be installed and sized as required to carry the weight of the pipe and contents.
2. Provide cored hole for all pipes passing through floors and any other building construction, of adequate diameter to allow a minimum of 3/4 inch clearance all around.
3. Anchors shall consist of rigid members clamped or welded to the pipe to prevent pipe movement at that point. Attach anchors to structural members of building.
4. Support all risers at each floor level by means of clamp rests.

C. Joints:

1. Any leaking joints shall be completely disassembled and remade with new materials.

D. Accessibility:

1. All equipment shall be so arranged as to be accessible for repairs and replacement without disturbing adjacent work.

3.02 MECHANICAL CUTTING AND PATCHING

- A. Contractor shall be responsible for all cutting, fitting, or patching of his Work which may be required to make its several parts come together properly. Cutting of structural members shall not be done without written approval of the Consultant.
- B. Do all cutting and patching required for the installation of the Work. Any damage caused to the building by this cutting and patching, shall be corrected at no additional cost to the Owner.
- C. Patching of all openings for new installations and all openings resulting from the removal or relocation of any installations shall be done by craftsmen skilled in the particular trade affected, with materials of like type.

3.03 DRAINAGE SYSTEMS

A. General:

1. Furnish and install additional floor drains including connections to existing storm drainage system.

3.04 CLEANING

- A. All piping, equipment and appurtenances installed under this Section shall be thoroughly cleaned and properly protected during construction, and put in first class operating condition before being offered for acceptance.
- B. In general, all painting will be done by others. All equipment shall be delivered to the job site with manufacturers standard shop finish. All equipment furnished under this Section shall be thoroughly cleaned and left ready for finished painting.

3.05 TESTS

- A. Upon completion of the several portions of the Work, the various pieces of apparatus and equipment shall be tested to demonstrate that the same fulfills the specifications and requirements. The systems shall be tested in accordance with Local Code and in no case less than the following:
 1. The entire system of piping shall be thoroughly blown out for the purpose of removing dirt and grease. This shall be continued for as long a period of time as is necessary to thoroughly clean the installations. The Contractor shall make good for any defects in the equipment which may result from pumping water containing any foreign matter.
 2. Drainage Systems: The entire system existing and new portions of storm piping shall be tested by the Plumbing Contractor under a water test. The water test shall include the entire system from the lowest point to the highest pipe above the roofs. Water tests shall be made in accordance with all the local requirements.

Every portion of the system shall be tested to a hydrostatic pressure equivalent to at least a ten foot head of water. After filling, the Contractor shall shut off water supply and shall allow it to stand fifteen (15) minutes, under test, during which time there shall be no loss of leakage. Any defects in materials or workmanship found to exist and cause leakage, shall be repaired or replaced with new material as may be required by the Consultant, and the test repeated until work is shown to be watertight.
- B. This Contractor shall furnish and pay for all devices, materials, supplies, labor attendance and power required in connection with all test. All tests shall be made in the presence and to the satisfaction of the Plumbing and other Inspectors of the local authorities.

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- C. Defects disclosed by the test shall be repaired or if required by the Consultant; defective work shall be replaced with new work without extra charge to the Owner. Test shall be repeated and directed until all work is proven satisfactory.
- D. The Plumbing Contractor shall notify the Consultant and others having jurisdiction at least forty-eight (48) hours in advance of making the required tests so that arrangements may be made for their presence to witness the tests.

END OF SECTION