

**WORCESTER HOUSING AUTHORITY**  
Worcester Housing Authority (WHA)  
81 Tacoma Street  
Worcester, MA 01605

**ADDENDUM NO. TWO**  
**PLANS AND SPECIFICATIONS FOR:**  
**Backflow Preventer Installation**  
**MA 12-13, Webster Square Towers West and East**

In accordance with documents prepared by: Garofalo Design Associates, Inc. 384 Lowell Street, Unit 105 A&B, Wakefield, MA 01880

**TO: ALL PLANHOLDERS – BIDDERS – PROPOSERS – CONTRACTORS:**

Bidders are hereby informed that Plans and Specifications for the above-mentioned development are modified, corrected and/or supplemented as follows, and that Addendum No.: 2 becomes a part of the Contract Documents and consists of ITEMS NUMBERED ONE THROUGH FIVE:

This Addendum No. 2 forms a part of the Contract Documents and as such, all bidders should acknowledge it in Paragraph B on the Form for General Bid. Failure to do so could result in the rejection of your bid.

**QUESTIONS AND ANSWERS:**

1. **QUESTION:** Is there a plan for shutting down the water service in each tower in order to connect the new backflow preventers to the existing water service? Has the City Water Department been notified of this project? We anticipate that each tower will be without water for a period of at least a few hours.
1. **ANSWER:** *Water will have to be shut down to perform the work. At the walk-thru the Worcester Housing Authority acknowledged the gate valve at the service entrance may not hold and the water may have to be shut off in the street. This is not uncommon for WHA. All work that can be pre-fabricated (backflow preventer) should be to minimize down time. Periods of shut down must be scheduled at least 72 hours in advance. Shut downs should be scheduled after 8:00 a.m. and before 4:00 p.m. with an estimated duration.*
2. **QUESTION:** When the shutdown occurs, it is important that the existing valves properly close, both to stop the water from the street and to stop the water from the towers. What is the plan if these valves do not work and can they be tested prior to beginning the project?
2. **ANSWER:** *In 1050 Main Street the PRV station has ball valves that should hold. Valves beyond are unknown. See above for main shut off. Contractor should assume valves can be made to shut.*
3. **QUESTION:** In the East Tower, will the new backflow preventers be able to be located where shown on the drawings? There are concerns about the room in that space with the fire protection valve and the proximity to the existing water pressure regulators which will remain. Will there be enough access to these items if the new backflow preventers are located where shown.
3. **ANSWER:** *See Addendum #2 for relocation of backflow preventers across hall to mechanical room, where more space is available.*
4. **QUESTION:** In the West Tower, there are some electrical lines and boxes on the wall where the new backflow preventers are shown to be anchored. Will these be relocated by others?
4. **ANSWER:** *The electrical indicator lights (fire alarm system) and spare sprinklerhead box will be relocated by the owner, prior to construction at 1060 Main Street.*

**REVISION TO SPECIFICATIONS:**

**ITEM No. 1: Invitation For Bids (ADDENDUM NO. ONE)**

**DELETE:**

*“Project consists of but is not limited to: installing back flow preventers in two high-rise buildings. General Bids will be received until 2:00 p.m. on Tuesday July 10, 2018 at the Worcester Housing Authority, Department of Modernization, 81 Tacoma Street, Worcester, MA 01605 at which time and place all bids will be publicly opened and read aloud.”*

**INSERT:**

*“Project consists of but is not limited to: installing back flow preventers in two high-rise buildings. General Bids will be received until 2:00 p.m. on Thursday July 19, 2018 at the Worcester Housing Authority, Department of Modernization, 81 Tacoma Street, Worcester, MA 01605 at which time and place all bids will be publicly opened and read aloud.”*

**ADD:**

*“Last day for Bidders to submit questions will be Friday, July 13, 2:00 p.m.”*

**ITEM No. 2:**

**DELETE:**

“Form For General Bid” (two pages)

**INSERT:**

“Form For General Bid” (two pages)

*Note: New General Bid Form Includes Alternates line items*

**ITEM No. 3:**

**ADD:**

**SECTION 01230 ALTERNATES**

1.01 ALTERNATES

- A. Bid prices for each alternate shall include overhead, profit, and all other expenses incidental to the work under each alternate. Consult the individual specification sections to find detailed requirements of each alternate.
- B. List of Alternates:
  - 1. **ADD ALTERNATE NO. 1:** SK-1 "Valve Replacement at Pressure Reducing Valve
  - 2. **ADD ALTERNATE NO. 2:** 1050 Main St. - Clean strainers at pressure reducing station in gas meter room. Replace blow down valves on strainers with 1" ball valves with hose bibb. (typ for 2)

**REVISION TO DRAWINGS:**

**ITEM No. 4: P-1.0 (PLUMBING PLAN)**

**ADD:** SK-1 "Valve Replacement at Pressure Reducing Station" – ALTERNATE NO. 1

**ITEM No. 5: P-1.0 (PLUMBING PLAN)**

**DELETE:**

*Detail: 3 – WEBSTER SQUARE EAST TOWER 1050 MAINT ST. PLUMBING PLAN*

**INSERT:**

*SK-2 "New Backflow Preventer & Valve Replacement" & ALTERNATE NO. 2*

**WORCESTER HOUSING AUTHORITY**

BY: Joe Carson, Chairperson

Date: July 3, 2018

**END OF ADDENDUM NO. TWO**

## Form For General Bid

To the Awarding Authority:

A. The Undersigned proposes to furnish all labor and materials required for \_\_\_\_\_ in \_\_\_\_\_, Massachusetts,  
*(project)*  
in accordance with the accompanying plans and specifications prepared by

\_\_\_\_\_  
*(name of architect or engineer)*  
for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

B. This bid includes addenda numbered \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

C. The proposed contract price is \_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

For alternate No. \_\_\_\_\_ Add; \$ \_\_\_\_\_ Subtract \$ \_\_\_\_\_

For alternate No. \_\_\_\_\_ Add; \$ \_\_\_\_\_ Subtract \$ \_\_\_\_\_

For alternate No. \_\_\_\_\_ Add; \$ \_\_\_\_\_ Subtract \$ \_\_\_\_\_

For alternate No. \_\_\_\_\_ Add; \$ \_\_\_\_\_ Subtract \$ \_\_\_\_\_

*(Repeat preceding line for each alternate)*

D. The subdivision of the proposed contract price is as follows:

Item 1. The work of the general contractor, being all work other than that covered by Item 2. \$ \_\_\_\_\_

Item 2. Sub-bids as follows:

| Sub-trade | Name of Sub-bidder | Amount | Bonds required, indicated by "Yes" or "No" |
|-----------|--------------------|--------|--|
|           |                    |        |  |
|           |                    |        |  |
|           |                    |        |  |

Total of Item 2: \_\_\_\_\_

The undersigned agrees that each of the above named sub-bidders will be used for the work indicated at the amount stated, unless a substitution is made. The undersigned further agrees to pay the premiums for the performance and payment bonds furnished by sub-bidders as requested herein and that all of the cost of all such premiums is included in the amount set forth in Item 1 of this bid.

The undersigned agrees that if he is selected as general contractor, he will promptly confer with the awarding authority on the question of sub-bidders; and that the awarding authority may substitute for any sub-bid listed above a sub-bid filed with the awarding authority by

another sub-bidder for the sub-trade against whose standing and ability the undersigned makes no objection; and that the undersigned will use all such finally selected sub-bidders at the amounts named in their respective sub-bids and be in every way as responsible for them and their work as if they had been originally named in this general bid, the total contract price being adjusted to conform thereto.

- E. The undersigned agrees that, if he is selected as general contractor, he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this bid and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority and each in the sum of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price; provided, however, that if there is more than 1 surety company, the surety companies shall be jointly and severally liable.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to section 44A.

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

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*(Date)*

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*(Name of General Bidder)*

By:

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*(Name of Person Signing Bid and Title)*

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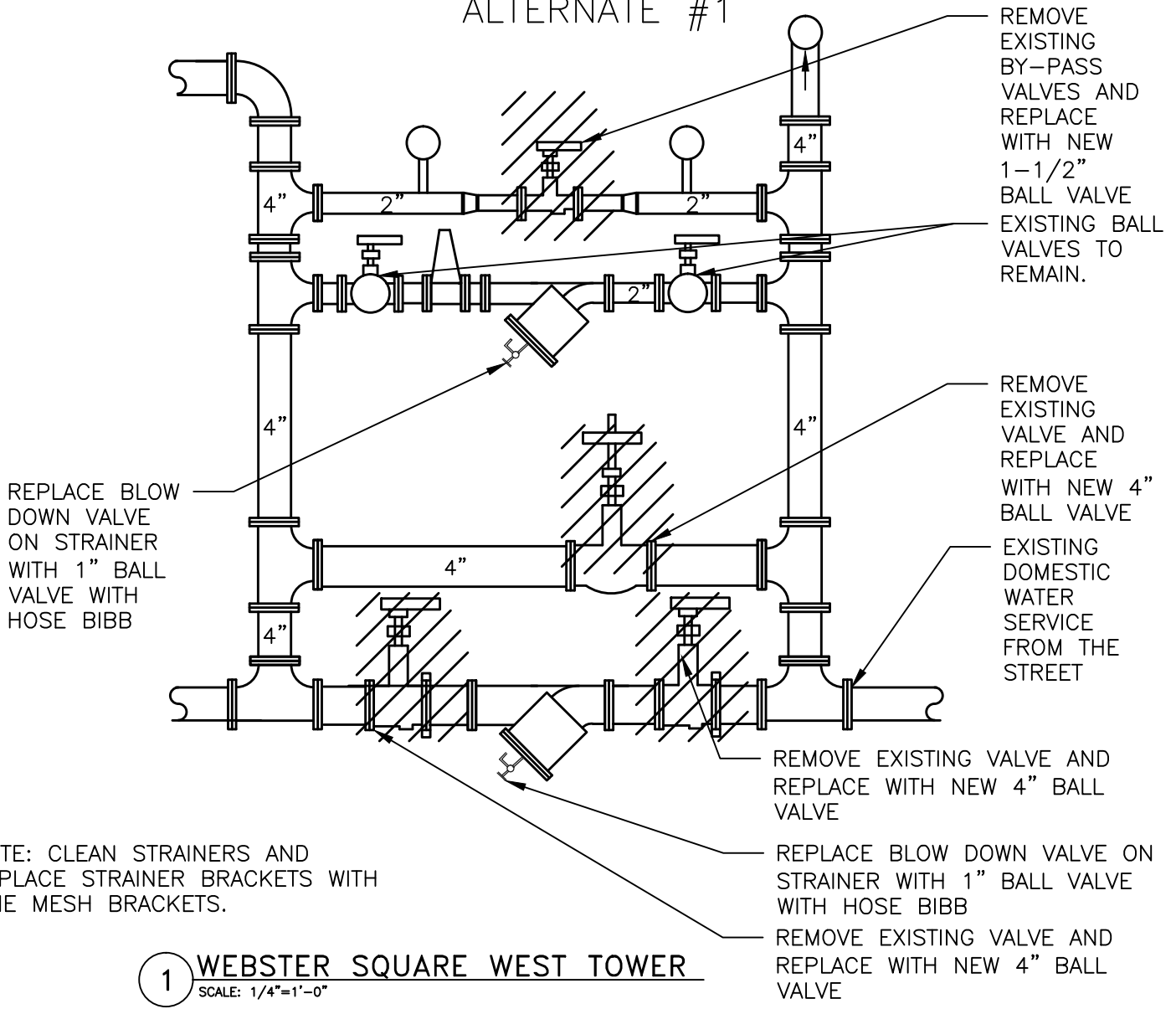
*(Business Address)*

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*(City, State, Zip)*

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# ALTERNATE #1



NOTE: CLEAN STRAINERS AND REPLACE STRAINER BRACKETS WITH FINE MESH BRACKETS.

**1 WEBSTER SQUARE WEST TOWER**  
SCALE: 1/4"=1'-0"

SKETCH SK-1 (ALTERNATE NO.1)

INDICATED WORK TO BE PERFORMED ON THE PRESSURE REDUCING STATION IN 1060 MAIN STREET (WEST TOWER).


WORK ASSOCIATED WITH THE BACKFLOW PREVENTER INSTALLATION IN THE WEST TOWER IS UNCHANGED. THE WORK ON THE PRESSURE REDUCING STATION CHANGES BOTH MANUAL BYPASS VALVES FROM GATE VALVES TO BALL VALVES.

IT ALSO CHANGES THE OLD STYLE SHUT-OFF VALVES (BALL VALVES) TO THE NEWER STYLE WITH STAINLESS STEEL BALL VALVES.

IT DOESN'T CHANGE SHUT-OFF VALVES ON EITHER SIDE OF THE (2 INCH) PRESSURE REDUCING STATION SINCE THEY ARE ALREADY THE MODERN TYPE BALL VALVE.

THE TWO EXISTING STRAINER ARE CALLED TO BE CLEANED AND THE STRAINER BRACKETS REPLACED WITH NEW, FINE MESH STRAINERS. THE "BLOW DOWN" VALVES ON THE STRAINERS ARE CALLED TO BE REPLACED WITH NEW, ONE (1) INCH BALL VALVES WITH HOSE BIB, IN LIEU OF THE EXISTING GATE VALVES WITHOUT HOSE BIBS.

WE ARE NOT REPLACING THE PRESSURE REDUCING VALVES. THERE'S ARE TYPICALLY EXPENSIVE VALVES THAT LIKELY REQUIRED ONLY CLEANING AND ADJUSTING.

|   |  |                           |                           |
|---|--|---------------------------|---------------------------|
|  <p><b>MacRITCHIE ENGINEERING INCORPORATED</b><br/>197 Quincy Avenue, Braintree, MA 02184<br/>Tel. (781) 848-4464 Fax (781) 848-2613<br/>www.macritchie.net</p> | <p>JOB:<br/>WEBSTER SQUARE TOWERS (WEST)<br/>1060 MAIN STREET, WORCESTER MA</p>                | <p>DATE:<br/>06/21/18</p> | <p>DWG:<br/><br/>SK-1</p> |
|   | <p>DESCRIPTION:<br/>VALVE REPLACEMENT AT PRESSURE<br/>REDUCING STATION<br/>ALTERNATE NO. 1</p> | <p>SCALE:<br/>NTS</p>     |                           |
|   | <p>DWN BY:<br/>AHD</p>   | <p>REF:<br/>REF</p>       |                           |
|   |  |                           |                           |

**NOTE:**

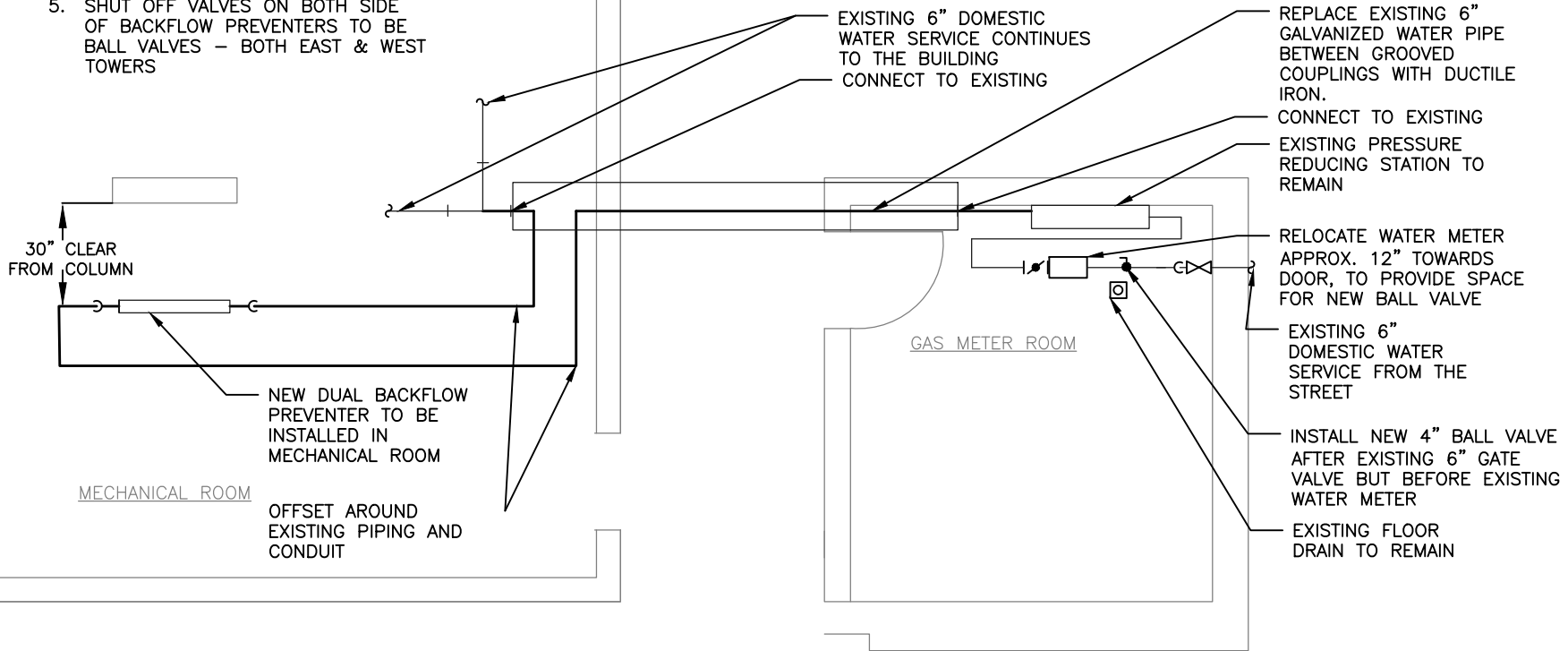
1. TO PROVIDE SUFFICIENT DOMESTIC WATER FLOW AND PRESSURE TO THE BUILDING, BOTH BFPS SHALL BE NORMALLY OPEN
2. ALL NEW 6: PIPE SHALL BE DUCTILE IRON WITH GROOVED COUPLINGS TO MATCH EXISTING GROOVED GALVANIZED PIPE.
3. SEE DETAIL 5/P-1.0 FOR MORE INFORMATION ON DUAL BACKFLOW PREVENTER
4. SECURE BACKFLOW PREVENTER AND PIPING SYSTEM WITH STEEL SUPPORT STAND & SECURE WITH UNISTRUCT TO COLUMN
5. SHUT OFF VALVES ON BOTH SIDE OF BACKFLOW PREVENTERS TO BE BALL VALVES – BOTH EAST & WEST TOWERS

SCOPE OF WORK

INSTALL DUAL 4" BACKFLOW PREVENTER IN MECHANICAL ROOM AS SHOWN-IN LIEU OF GAS METER ROOM.

ALTERNATE NO 2

CLEAN STRAINERS AT PRESSURE REDUCING STATION IN GAS METER ROOM. REPLACE BLOW DOWN VALVES ON STRAINER WITH 1" BALL VALVES WITH HOSE BIBB. (TYP FOR 2)



**1 WEBSTER SQUARE EAST TOWER 1050 MAIN ST. PLUMBING PLAN**  
SCALE: 3/16"=1'-0"

SK-2 DESCRIPTION INDICATES WORK TO BE PERFORMED AT 1050 MAIN STREET (EAST TOWER). THAT WORK INCLUDES THE FOLLOWING:

1. RELOCATION OF THE DUAL BACKFLOW PREVENTERS TO THE MECHANICAL ROOM, 9' ACROSS THE CORRIDOR FROM THE "GAS METER ROOM."
2. MOVING THE WATER METER ABOUT A FOOT TOWARDS THE DOOR AND THE INSTALLATION OF A NEW 4 INCH BALL VALVE BETWEEN THE 6 INCH GATE VALVE AT THE WATER ENTRANCE AND THE 4 INCH WATER METER.
3. CLEANING OF STRAINERS, REPLACEMENT OF THE STRAINER BRACKETS, AND INSTALLATION OF BALL VALVE BLOW DOWNS ON THE TWO STRAINERS. THIS WORK IS IDENTIFIED AS "ALTERNATE NO. 2"
4. ALL SHUT-OFF VALVES AT THE PRESSURE REDUCING STATION ARE ALREADY MODERN BALL VALVES WITH STAINLESS STEEL BALL AND TEFLON SEATS.
5. WE ARE NOT REPLACING THE PRESSURE REDUCING VALVES. TYPICALLY THESE VALVES ARE VERY EXPENSIVE THAT LIKELY ONLY REQUIRE CLEANING AND ADJUSTING.

**MacRITCHIE ENGINEERING INCORPORATED**  
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Tel. (781) 848-4464 Fax (781) 848-2613  
www.macritchie.net



**JOB:** WEBSTER SQUARE TOWERS (EAST)  
1050 MAIN STREET, WORCESTER MA  
**DESCRIPTION:** NEW BACKFLOW PREVENTER & VALVE REPLACEMENT

**DATE:** 06/21/18

**SCALE:** 3/16"=1'-0"

**DWN BY:** AHD

**REF:** REF

**DWG:**

SK-2