



PARIC CORPORATION
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REQUEST FOR INFORMATION **DATE:** February 22, 2017 **NO.:** RFI-456

To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Joe Voypick

Project Name: 15051-Webster University Interdisciplinary Science Building Project No.: 15051

Subject: Plumbing seismic code block

Response Required By: March 01, 2017

Drawing / Spec Reference:

Information Requested:

The plumbing contractor's seismic engineer has identified an oversight from the engineer on the plumbing drawings on the seismic code block. The design category and importance factor is not identified. The contractor has based their design and estimate based off of the mech code block which doesn't have the items listed as a C design category and an IP "importance factor" of 1.0. Please advise if this assumption is correct. Email attached with additional correspondence.

Response:

As indicated on drawing P0001 and specification section 220548, seismic control is a delegated design submittal by the contractor. This delegated design and subsequent submittal shall be based on the 2009 edition of the IBC and the requirements of the authorities having jurisdiction.

To offer further guidance, information contained seismic code block from the mechanical drawing may be used for reference. Generally, plumbing components will have an IP of 1.0, based on Seismic Design Category 'C'. Applicable exemptions may apply for components due to its physical size, installation or weight. The fueled fire hot water heaters will have an IP of 1.5. Particular runs of chemical vent piping (CPVC) may also require consideration, based on the diameter 3 inches.

Refer to structural drawing S0001 for additional seismic load design information and criteria.

ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By: Mike Whitworth - WES

Date: March 14, 2017

Gates, Devin

Subject: FW: Webster U ISB

From: John DeLuca [<mailto:johnd@delucaplbg.com>]

Sent: Friday, February 17, 2017 8:28 AM

To: Szachnieski, Jason; Gates, Devin; William Panzer; Steve Meiners; Todd Hawkinson

Subject: Fwd: Webster U ISB

Paric team

Please note we are getting our seismic engineer to get us a submittals and stamped drawing of seismic for the plumbing, he has identified a oversight from the engineer on plumbing drawings on the seismic code block. They do not identify the design category and importance factor. We have based our design , and estimate from the mech code block which does have these items listed as a C design category and a IP "importance factor" of 1.0. Please advise this is correct and so our engineer can submit our seismic for this project and drawings.

John DeLuca. Jr.

DeLuca Plumbing LLC

Master Plumber

Office 314-427-5551 EXT 207

Cell 314-713-2772

Fax 314-427-1137

Begin forwarded message:

From: Todd Hawkinson <todd@hawkinsonassociates.com>

Date: February 15, 2017 at 9:14:35 AM CST

To: John DeLuca <johnd@delucaplbg.com>, Peter DeLuca <peterd@delucaplbg.com>

Cc: "samh@delucaplbg.com" <samh@delucaplbg.com>

Subject: RE: Webster U ISB

All;

Any piping considered to be carrying hazardous material or life threatening such as gas piping, would need to be braced, yes.

Only those sizes above 2" though.

As the code rules specifically state for SDC "C", $I_p > 1.0$, that pipe 2" and smaller does not require bracing.

I found in looking at the drawings Peter sent, 3" ACID Vent Piping on Floor 2 Area A at about Column line E.5 and Column 6

This section appears to be maybe 5 to 10 feet in length.

I would suggest a Quad Brace of four cables be placed where the 3" is tee'd off the 2" vents coming to the 3", from the left.

The 3" then runs to the right into the plumbing chase/shaft.

You could secure this piping to the wall there or provide another Quad cable system at the top of this pipe or on the vertical vent stack, though if this vent stack is secured to the floors as it comes down from 4th and 3rd floors, then that would be a point of bracing.

In securing to the floor, use a riser clamp and (2) - 90 degree brackets that bolt to the riser clamp - (1) each side and then use a 3/8" Powers SD2 x 2" min embed Exp Anchor to secure the 90's to the floor.

I did not see any other acid vent piping over 2" on any other floor.
If you need this cable basically 2 Quad-Q3 Brace systems utilizing 1/8" cable and our Anchor 1
(2) Q3-1/8 - 1
and
3/8" Powers SD2 Exp Anchors (2) required per floor - total quantity per DeLuca.
I will add engineering into this if signed/sealed drawings are needed.

Is this all you would need?

Best Regards,

Engineered Seismic Systems, Inc & Hawkinson Associates, LLC

Todd R. Hawkinson, PE
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From: John DeLuca [<mailto:johnd@delucaplbg.com>]
Sent: Wednesday, February 15, 2017 7:56 AM
To: Peter DeLuca <peterd@delucaplbg.com>; Todd Hawkinson <todd@hawkinsonassociates.com>
Cc: samh@delucaplbg.com
Subject: Re: Webster U ISB

Todd

We have a small amount of acid venting piping 2" sizes and some 3". This would have to be seismic regardless of code block? Verify

John DeLuca. Jr.

DeLuca Plumbing LLC
Master Plumber
Office 314-427-5551 EXT 207
Cell 314-713-2772
Fax 314-427-1137

On Feb 8, 2017, at 5:09 PM, Peter DeLuca <peterd@delucaplbg.com> wrote:

From: Todd Hawkinson [<mailto:todd@hawkinsonassociates.com>]
Sent: Wednesday, February 08, 2017 5:08 PM
To: Peter DeLuca <peterd@delucaplbg.com>
Subject: RE: Webster U ISB

Peter;

This project as listed on the Mech Code Block is exempt -
SDC C Ip = 1.0

Can you ask the plumbing engineer for a more specific code block? ask them to look over the info on the mech code block and what is considered life safety?
Gas piping would be and that would carry an Ip = 15 and any pipe of that nature over 2" needs bracing.

The way I see this is - you may be exempt as well - you should be if all the piping and duct on the MEch Code Block is Ip = 10

Thx,

Todd

From: Peter DeLuca [<mailto:peterd@delucaplbg.com>]
Sent: Wednesday, February 08, 2017 3:30 PM
To: Todd Hawkinson <todd@hawkinsonassociates.com>
Subject: RE: Webster U ISB

Icon.

From: Todd Hawkinson [<mailto:todd@hawkinsonassociates.com>]
Sent: Wednesday, February 08, 2017 3:25 PM
To: Peter Deluca (peterd@delucaplbg.com) <peterd@delucaplbg.com>
Cc: Mark Brennan - Mark C Brennan LLC (mcbrennan@sbcglobal.net) <mcbrennan@sbcglobal.net>
Subject: Webster U ISB

Peter;

Who is doing the Mechanical on that project or rather facility?

Todd