



Filters 1 through 4 had lock washers installed

Filters 2 and 3 had small fender washers replaced with large fender washers.

The city and SEH witnessed all work

All parties involved agreed that the work being performed is experimental

All fasteners were torqued to 15ftlbs

Filters 3 and 4 continued to leak water after lock nuts were placed and nuts tightened. It is Casey's belief that these 2 filters cannot be repaired with the same process as filters 1 and 2. Filter 3 has a concave wall where the bottom angle attaches to the concrete. The angle used is too heavy duty to get it to "bend" tight and form to the wall, filter 4 has the opposite problem where the concrete has large bumps. Additional gasket could be placed to try and use as a filler, but the bolts installed in the wall only have 1" of head exposed. The more gaskets, the less bolt for the nut. Filters 3 and 4 should have the bolts cut off, redrill the holes, epoxy new bolts and leave a longer stem, place extra gasket and replace the angle with aluminum angle if possible or a lighter stainless angle to be able and bend the angle with the contour of the wall. Casey also believes that JB Water Weld should be applied to the back side of the angle and along all joints in the angle. This should stop any flow of water and media. To do this process new angle, bolts and fasteners will all need to be purchased for the filters. Casey recommends larger fasteners that can withstand more torque to pull the angle and help it form to the wall or a softer gasket material that will give more. Rice lake understands that any future work on the filters will take place during the winter months only.

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