

WATER POLLUTION CONTROL AUTHORITY
Town of Trumbull
CONNECTICUT

TOWN HALL
(203) 452-5048



5866 MAIN STREET
TRUMBULL, CT 06611

SEPTEMBER 28, 2022
MINUTES

Call to Order: The Chair called the meeting to order at 7:02 p.m.

Roll Call: The clerk called the roll call and recorded it as follows:

Present: Chairman Jon Greene, Secretary Frank Regnery, Bruce Elstein, Richard Boggs Alt.

Absent: Vice-Chairman Andrew Palo and Tom Kelly

Approval of Minutes: Moved by Elstein, seconded by Regnery to approve the July 27, 2022 meeting minutes as submitted. VOTE: Motion CARRIED 3-0-1- (ABSTENTION: Boggs)

New Business - Recent Emergency Repairs

Break at Culvert Under the Merritt Parkway, The break was across from Williams Road at the bottom of the hill, a low point, where it goes through the Merritt Parkway, behind Bonnie View Drive and comes to Machalowski then to Old Town Road. There are two (2) 8" pipes, 26' of pipe that had dislodged. The neighbors smelled it, Island Brook ran behind their house. Mr. Maurer had DEEP come out for the break that happened a week later, and also showed them pictures of this break. They had to quickly go through two (2) private fences to get to the repair because it was off the road in the woods, they got a machine in there to pull out and replace sections of the 8" ductile iron pipe and put it all back together. It was obvious the bracket that held the pipe to the culvert had rotted away and with the recent flow of water the pipes floated downstream.

This was a gravity line not a force-main. After the two (2) sections floated downstream there was an open pipe that took water into the gravity line. The pump station was probably working harder than it needed to. Burns Construction mobilized and got everything connected. Kovacs went in and put all new brackets on all the pipe sections of the outflow. There was also a scour hole that was 4'-5' deep full of sewage which was pumped out. Eventually the commission should consider jacking through underneath the Parkway. A gravity line should not be bolted to a culvert, it could break lose and no one would know. An alternate would be to redirect the flow to Reservoir Avenue pump station, it might be less expensive to put in a small pump station than jacking, this will need to be investigated. If it were brought under the Merritt Parkway it is pretty deep there, the bank is 30' from the flow-line to the roadway but probably could not isolate the pipe with a mini culvert inside it. We probably would not have capacity if it were encased.

Old Town Road – The Thursday after the Merritt Parkway culvert break Mr. Maurer received a call from his CBYD person regarding marking a call for Bridgeport and realized they were right next to our force-main and sewer water was going into their storm line, Bridgeport couldn't figure out why, but our CBYD person figured it out. There was a cracked section of pipe.

Mr. Maurer shared his screen showing pictures of the break(s). It was cast iron pipe 16' into the ground. It took some to locate the hole. They dug down in one section and there was no break, they dug another but still no break, but the flow was directing them in between the two digs and found it was a crushed pipe and was more than likely crushed when it was put in. It was 16' plus in the ground in rock. This was the 4th break in this line which is a 2,600' long line and should consider looking at this to see if it should be replaced and put it in a more workable elevation, The four (4) breaks to the line was one a year after putting it in, one in 1991 and 2010, and now this one in 2022.

This is the 5th emergency repair this year, 2 on North Main Street, 2 on the southern end and Beardsley Park. In the past 10 years we have problems with the force-main on Plumbtree, similar circumstances as the Whitney pump station, an air pocket that eventually broke through, there was a break in 2009 or 2010 where a contractor broke the line, so besides Beardsley Park which was 2.5 years ago now, this is a quite a year. This many in a year is not usual.

The failure on Old Town Road is completely different than the failure at Beardsley, this one looks like it was not bedded correctly when they put the pipe in, the pipe looks crushed, it was not a scour hole on the inside. This was in blasted rock all the way down. It was crushed when they backfilled, they put boulders on it. It follows a gravity line on either side of this and there is a high spot in the profile. This break was between Horseshoe Drive and on the Trumbull side at Oakview Drive there is a big incline, they had to put in deep for the gravity line. As it comes out of the incline they kept the minimum coverage on the sanitary line, they only went 5.5'. This could have been brought up but they chose to run in the same trench, (gravity line). The force-main was lower than the gravity. The gravity line goes in one direction and pumping in the other direction. The 2,600' foot line's endpoints are the Old Town pump station and further up Old Town Road.

Christine Kurtz shared the plan on her screen and explained there is gravity going down to the pump station and then coming back up as the force-main and there is a line of ledge. Essentially both pieces of pipe were put in the same trench and had to blast all that out. When they found the break, which was a bit of a hunt, they saw that it was sitting on the rock. The general consensus would be that the entire length of pipe is installed the same way. Mr. Maurer indicated it is not very deep as you go upstream. All the plans call for cast iron so they assume it is cast iron. Beardsley was a 21" pipe.

Replacement of this pipe would be approximately \$300 per foot, upwards of \$800,000. This would be a completely different project compared to Beardsley because there is already a bypass to Bridgeport, they can turn this off and install without ever having to bypass. There are a lot of bends in the 2,600' of pipe, using a scope to camera it would be difficult, and would only see the straight runs but it would be a problem at the elbows. They did try pushing a camera but it was so dirty and didn't have enough power to see anything. They don't know if lining the pipe is an option it is something that would need to be investigated, if it collapsed on the bottom it might

work but if it was the front or the top that is another story. This was probably the first pump station Trumbull put in and they floated it straight to Bridgeport because they did not have any place to send it, it is another access point to Bridgeport that we usually don't use. We can use it to bypass while replacing the pipe which is a big cost savings.

Mr. Maurer recommended Wright Pierce to do a more in depth study and plan to replace the pipe. This is already in the budget. Mr. Maurer has not received the invoices for the breaks, but should have them all by the next meeting.

Old Business:

Beardsley Force-main Update:

Vanessa McPhearson of Arcadis explained at the last meeting in July they were anticipating receiving the new 20" pipe by December. That date has improved slightly and are now anticipating the receipt of the pipe by mid-November but materials are definitely in flux.

Burns has proposed temporary lines. There's a bypass pipe that's part of the contract. The original contract documents show that temporary line to just go for the 1,000 feet of pipe being replaced within the park. Burns has proposed an alternate where that temporary line would run all the way back to a connection that currently exists at the Beardsley pump station, which was installed during the pump station upgrade. That would save them having to cut into the pipe at the northern end. The replacement extends within the park, and would mean a longer temporary line. The net cost differential is \$26,000 as a change-order. They would have to go to DEEP since the park is state owned.

This proposal would mean piping temporary piping that would go beyond the temporary easement that has been requested from the state. Julie Bjorkman, who's helping with permitting reached out to the state this week to see what their requirements might be for the new Burns proposal going outside the temporary easement. A package is being submitted for review of the proposal. This ties in with the other update which is, while Attorney Nugent has been very diligent getting all of the required signatures for the temporary easement, the latest report on when we could expect to have that signed document in-hand is December or January, which is not ideal given that there is hope to have pipe by mid-November. Julie discussed with the state and the state suggested applying for a Temporary Special Use License, which has a shorter lead time. They will which still apply for the easement, but they expect to get the Temporary Special Use License within 3-4 weeks. This could be a bridge where we can add the extended temporary line all the way back to Beardsley, outside of the temporary easement request, and also allow the contractor to mobilize before we the full temporary easement is received.

The extended line going all the way back to the pump station would be 2,500' v. 1,000'. The Chair noted because they would be running through and not cutting open a pipe would be cleaner because you're running through an existing connection and just tapping it. Ms. McPhearson concurred. Mr. Maurer added it is an opportunity to confirm the condition further and may find not necessary to do the 1000' maybe only 500' or the inverse. Ms. McPhearson confirmed what we is in the contract will work, this is just another way of doing that. It gives the opportunity to access a much longer portion of the force-main, to do an internal inspection while taking it completely out of service. The contract calls for temporary plugs on either side of where the work extends, this proposal by Burns is proposing permanent, an insertion valve at the downstream

section, if we needed to do more in the future downstream or south of the termination point under this contract. Ms. McPhearson does like Burns' proposal. Now that the state may approve the longer temporary pipeline without having to amend the temporary easement makes it an attractive idea. It is wonderful to have the opportunity to see more of the pipe, a full interior evaluation is beneficial and can optimize the limit of replacement.

The commission discussed and questioned how the contract was written, and if it would be a cost savings if there was additional pipe at the end of the project. Ms. McPhearson noted she would need to refresh herself with the bid form, but thinks the pipe would be turned over, they would need to work with Burns to understand the installation cost v. the pure material cost. She thinks it would be prudent to keep some on hand.

Mr. Maurer explained the plan is, prior to receiving the pipe if everything in a perfect world is on time, Burns would want to install his bypass before he mobilizes to put the pipe in. You can't start digging before the bypass. Bypass is the first thing Burns would do and one of the other first things to work on is cutting the insertion valve or if there is a line-stop. If it's just a line stop, he's got to do two of them, if it is the insertion valve it is just one. We will know better by next meeting as to when this would be.

Ms. McPhearson explained for Attorney Nugent that she thinks either way they will apply for the Temporary Special Use License. Their plan was to submit that application for the longer temporary pipeline, which would cover them no matter what is decided. Either way, they need to apply for that because we won't have the temporary easement in hand by the time Burns is likely ready to mobilize. Attorney Nugent clarified if the commission doesn't use the alternate option they will be waiting until December of January to start construction.

Commissioner Regnery summarized: The plan would be to put in 2,500 feet of temporary bypass, pay the contractor \$26,000, but then be able to go back and inspect the 1,000 feet of pipe that is planned to be replaced. Mr. Maurer further explained at that point the pipe would be empty and they could cut it open, clean it and put a camera through it.

Attorney Nugent suggested the commission authorize the application to Deep for a Temporary Special Use License by a vote.

The Chair noted the withdrawal benefit is not only getting to see the 1,000 feet being replaced but getting to make a judgment on whether it actually needs a full 1,000 feet replaced, and we also get to see 1,500 feet approximately of additional pipe. It was confirmed for the Chair there was enough budgeted for it. Attorney Nugent noted the additional benefit is that they get to start much earlier.

Moved by Regnery, seconded by Elstein to authorize Arcadis to apply to DEEP for a Temporary Special Use License for the Beardsley Park project. Vote: Motion CARRIED by unanimous consent.

Old Town and Reservoir Avenue Pump Stations Update:

Ms. McPhearson reported the supplier has informed them they have all of the parts that they need for the Old Town pump station to build the power and control panels, they're still waiting

on the 480 volt breakers that would be needed for pump power at Reservoir. They are working with Kovacs to understand what their schedule would be to mobilize. They don't want to start the bypass activity until Kovacs is ready to go and don't want to be on an extended bypass at either site. They are hoping to mobilize sooner rather than later. The latest update on receiving the Reservoir missing parts is pushed out to December or January. Worst case would be mobilizing to replace both stations in the springtime. The panel supplier has all of the parts and just has to build the panels for Old Town, which is expected to take 2-3 weeks once they get to the production schedule. They are working with Kovacs to see if they could mobilize to one pump station sooner than the other.

Mr. Maurer explained both of these both these pump stations were bid as one package with two different prices. They were always meant to go together. Contractually we are past the original dates, but the reason for that is out of their control. Mr. Maurer would still like them to start one sooner, but will leave that up to Kovacs since it was bid together with 2 different prices.

Alternate Flow: Moved by Boggs, seconded by Regnery to ENTER into Executive Session based on CGS 1-210b-7 to present engineering or feasibility estimates relative to the public supply construction costs. VOTE: Motion CARRIED by unanimous consent. The WPCA ENTERED into Executive Session at 7:52 p.m. with the following people present: Chairman Jon Greene, Commissioner Frank Regnery, Commissioner Richard Boggs, Commissioner Bruce Elstein, Town Engineer/Sewer Administrator William Maurer, Christine Kurtz of Wright Pierce and Town Attorney James Nugent. Moved by Elstein, seconded by Regnery to END Executive Session at 8:35 p.m. VOTE: Motion CARRIED by unanimous consent

Adjournment: There being no further business to discuss and upon motion made by Regnery and seconded by Boggs the WPCA adjourned by unanimous consent at 8:37 p.m.

Respectfully Submitted,

Margaret D. Mastroni, Clerk