

BOARD OF PUBLIC WORKS
MINUTES OF 09/12/17

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TOWN OF LUDLOW

- MEMBERS PRESENT:** Stephen Santos, Alex Simao, Barry Linton, Guilherme Rodrigues
- ALSO PRESENT:** Steven Frederick, Amy Priest
- MEMBERS ABSENT:** Thomas Haluch
- At 6:00 P.M.** Mr. Santos called the meeting to order.
All stood for the Pledge of Allegiance
- APPOINTMENTS:** 6:15 pm David Goncalves – Mott McDonald
Update on the I & I Study.
- CORRESPONDENCE:** 899. Letter from Hampden County Sheriff's Dept.
requesting that Randall Road be resurfaced.

Mr. Santos introduced David Goncalves and asked him to take a seat.

Mr. Goncalves: I know I promised you an update by this week but I wanted to recheck some of the data. We have given you one or two reports up to now. All the flow metering is done. I know the board was concerned about the costs and time line. I have two maps here so that you can all see them. We've given you one or two updates regarding the survey. All the flow metering is done. Now it's just a review and getting it all into a report. I know the board was concerned about the costs and so forth. Based on some of the initial review of the data it won't surprise anyone very much. As far as infiltration goes there is only about 17 per cent of the sewer shed. There is not a lot of infiltration – 4000 gal per day. There are three areas that demonstrate infiltration: HBO1 on West Street just before the bridge also CR11 which doesn't surprise me as it is right next to the river if there are any joints leaking. So is subject to infiltration and CR12 down by the river in the lower portion of town near the mills. Mr. Linton asked is that by the old sewers? Mr. Goncalves: yes that is the area that exhibited the largest amount of infiltration. I think the reason for that is there is the lowest amount of "brown water". Last year it was historically low. We did get some decent rain events this year. So our recommendations regarding these sub-bases here are first you would go into these three sewer sheds and isolate manhole to manhole to see where that infiltration is residing. Mr. Santos said so when you do that you bypass the pump? Mr. Goncalves, no you want to see the pump, you want to see where the flow is happening. This is being done between midnight and six A.M. Wherever you see the elevation you know you have infiltration. The second step is CCTV I know that it is a bit more expensive but that is why you want to do isolation first. At that point, once you have CCTV you will see where you have a failing section of pipe or a crack or whatever you have. So that is the infiltration portion. The numbers for flow infiltration will be about \$50,000, the CCTV inspection is about \$120,000. I recently did an inspection for one in Williamstown and they were at \$375 per foot. It starts to add up so that's why we try to do the isolation first. So that's the infiltration. The other part is inflow. And the way DEP wants it is your largest sub bases that contribute 80% to your inflow. That is catch basins that are still tied to the sewer system, that is roof leaders, yard drains that feed into your

sewer system, so there are a lot of things that contribute. What we found was that seven of your systems.. let me go back, it's your top 80 % we try to get, the ones where you have the problems. One of your zones contributes 30% of your inflow and that is at CR12. It's the low land right by the mills. That is your oldest section of pipe or one of the oldest sections. I think you have a lot of backyard drains there, I think that is an area of focus. Then, CR11, at the interceptor we are looking at 14%. CR18 contributed about 10%, and then you had a couple at HBO6, which takes in Carmelina's Circle which surprises me because it's fairly new. Mr. Santos asked is that the Chapin Street pump station. Mr. Goncalves: No Chapin Street pump station goes over here. You've got a lot of businesses over there and you could potentially have yard drainage that is going into the sewer. I don't know, this is what the numbers are presenting at this time. HBO2, this is an issue, this is over by Westover Road, and then it's CR13 right off of State Street and CR17 by West and Arch Streets. What was that we found that was good was the area near Hubbard Street was fairly low which was what we expected given that there was recent work done there. For inflow what we typically do is we initially start with smoke testing, you drop a can of and see where the smoke comes up. Sometimes you see it coming through a roof drain, sometimes you see it in the catch basin, you know, there are a lot of things. One of the things I think this town will see is, you have some manhole covers with holes in them. And then you can do dye testing. Dye testing will verify if you have any fiber connections or other connections to worry about. The cost for that - and these are preliminary numbers, \$55,000 for smoke testing, and \$35,000 for dye testing. Steve, I am working on this right now and I didn't want to give you guys anything that wasn't 100%. So where do we go from here?

Right now, DEP is expecting a report by December 31st, we'll have that report well in advance of that so if you guys want to ask questions. The next step would be for the DEP to review it, and approve it. What they request is a sketch of how you plan to handle the areas I just showed you on the report. There are certain areas we should do the smoke testing. I did reach out to Paul McClusky and there is no defining deadline for handling this. They are not going to require you to do this stuff tomorrow. One thing they do try to eliminate first is inflow. Inflow you can do pretty much of anytime as long as there isn't much snow on the ground. You can do the smoke testing and dye testing pretty much of any time. Probably should do the inflow first. You're looking at \$90,000 or in that range to do that work. As far as for the infiltration, in my opinion, I wouldn't do it next year, I would wait until 2019, it's certainly up to the board, try to see those ground water levels come up a little. Again, if you were to go that route and do something in 2018 and something in 2019, or even if you wanted to go a year beyond that, I don't believe the DEP would have issues or concerns. They do have funding for this project at 2% loan interest, but having been on the board here I know you have the Sewer Enterprise Fund which is probably the right way to go. If you decided to go the funding route we would help you pull that together, but you would have to wait until next June because we have missed the cycle for this year. So it is up to the board in terms of what you have for funds. Mr. Santos said my only concern is the run by the river because that's not going to get any better and if the river comes up and the inflow comes up? Mr. Goncalves said personally I think that in that area you want to do the CCTV. You know you're right next door to the river there. It's probably the most significant sources of infiltration. I think you guys received some funding for this. Mr. Santos said we are going to send out an RFP for this to get some of those areas cleaned up. Mr. Goncalves: this will open up an opportunity to do some tree clearing and manhole inspections etc. You may want to use some of those funds for that. You may want to do that before you do this work. If you put that in the report, or you want me to put it in the report, i.e. "they plan on doing the tree clearing next year", or "they would prefer to do the tree clearing before doing some of this stuff", it is something I think the DEP would consider. Then the last thing is, your GIS mapping system, you are missing a lot of manholes. We took what the town gave us for GIS. You

have about 1200 or 1300 manholes, we added on about 60 or 70 so we could do our piece of the flow monitoring. We needed to know where the manholes were and the size of the pipes. Mr. Frederick replied that the Town needs to look at the GIS. They then discussed the beginnings of the GIS system installation.

Mr. Santos then read the letter from the Sheriff's department regarding paving of Randall Road. Mr. Frederick said that he was going to touch on that in his report.

Mr. Santos said okay then may we have your report Steve.

Mr. Frederick began his report (see attached)

Regarding the sewer project for Cady, Grimes and Rood Streets, the project package is 95% complete. Jim put together some figures and came up with \$467,000 with contingencies. Mr. Simao asked if this was a patch. Mr. Santos said yes we would have to go to Chapter 90. Mr. Santos said we got \$250,000 at Town Meeting but we should go for the full \$500,000 and what we don't use can go back. Mr. Frederick said that runs about \$180 per linear foot.

Mr. Linton said I think it is too much money. Mr. Santos said do we want to go out to bid? The Sewer Enterprise Fund is at \$900,000 right now. Do we want to combine Rood, Cady and Grimes Streets? We may have to go to Town Meeting in May. Mr. Simao asked can we get a Special Town Meeting in May? Mr. Santos, do we want to go out to bid?

Mr. Frederick asked how would we word the bid as to time frame etc.? Mr. Linton said it is coming from the Sewer Enterprise Fund so we need to talk to Kim Collins and Ellie Villano. Mr. Simao go out to bid in January or February. The Selectmen can open a bid if they deem it important enough. We have to be ready. Mr. Santos asked Amy Priest to call Ellie regarding a Special Town Meeting. Mr. Linton said a lot of people have been waiting for sewer for a number of years, like Mass. Avenue. Mr. Frederick said I would like to have plans ready for the queue so we are ready to go, not just thinking about it.

In terms of the Operations side I can go over that afterwards.

On the Engineering side Jim helped me out on getting letters out to Cady and Rood Street residents regarding the connection.

Mr. Santos said the bid went out for Center Street on 09/09/2017, two sets were picked up bid opening is February of 2019, five months ?

Mr. Frederick said Mass. Highway now takes the project over it is out of our hands.

As for past meeting comments: Town shade tree complaint – letter has been sent to the owner of the property. Nick Silva Field, there is no definite start date. West Street paving, milling was completed on Sept. 8, shim course done on Sept. 11, structure adjustment starts on Sept. 13, loops scheduled for Sept. 20th. 361 Miller Street, Mike Pietras contacted me and he is working on the gravity sewer plan. The crack seal schedule is to be determined, rain was interfering. Lyon Street septic Mike Pietras said the owner is having it repaired: Booth and Lyon Streets, problem with septic, resident says our truck ran over his property. I am going to check with Board of Health etc and I will let you know.

Engineering Dept: Intern job, going to be advertised shortly. It is for 19 hours per week, no benefits. Mr. Simao asked how long will they work? It will vary by the person's schedule. Amy said we have \$15,000 in there now. Mr. Frederick said that some of the interns are very good at GIS.

Mr. Santos asked any questions, Mr. Rodrigues ? No Mr. Simao asked why do we still have summer help still on the payroll? Mr. Frederick said Ken thought they would be helpful. Mr. Simao said if they work past 16 weeks then they can collect unemployment, we had that problem in the past. Can we look into that?

He also asked if Poole Street was finished yet. Mr. Frederick will get him an update. Mr. Linton said he drove it today. He also mentioned Mr. Goncalves report as to Waste Water Treatment, Mr. Frederick said that was on his agenda and he would let him know. Mr. Simao then asked Mr. Santos if we had found the problem, Mr. Santos said "yes we did and it has been rectified." The figures you are seeing now are based on last year. You will see the improvement in next years report.

Mr. Linton: There is a person on Genovevo Drive wants to cover a cul-de-sac with stone. It never gets mowed and looks terrible. I think there is a storm drain or sewer in the middle. I told them they should write to the Board of Public Works. Mr. Santos said that other times we have had to go back and rip out the rocks and replace it with grass because it doesn't get taken care of and gets overgrown with weeds etc. Often the person who did it moves away. Valley View did it and we had to rip it out. Mr. Linton said but we allowed them to do it on Cislak. Mr. Frederick will go and check it out and report back.

Mr. Santos said getting back to Randall Road – We can do from the power lines to the first entrance to the jail. It's 2800' of roadway – approximately \$50,000. From the power lines to West Street is ok. I'll get it on Palmer's schedule, before the end of October. How much time have we been spending on patching potholes out there? We are not going to mill and pave, just pave.

Mr. Simao said that road needs to be done but I am against doing it right now. \$50,000 is a lot of money. A lot of streets need to be paved. Mr. Linton asked are we throwing away \$50,000? Mr. Frederick said no I am sure it will holdup. Mr. Simao said where the "S" turns are it won't hold up. Mr. Santos said if we put 1-1/2" on it will be ok. So, motion to pave? Mr. Rodrigues motion to pave, seconded by Mr. Linton. All in favor? 3-1 Mr. Simao against.

Motion to adjourn at 7:32 p.m. Mr. Rodrigues, Mr. Simao seconded

Next meeting is September 25th.

NOTES ACCEPTED

Boyd

Bill Rodriguez

Simao

Florencia Pader

BOARD OF PUBLIC WORKS
Date _____

Administrative Assistant