



Item 7b.

Sunfish Lake Engineer's Report for October 4, 2016

By: Don Sterna, PE, City Engineer

Date: September 28, 2016

1. Engineering Activities Undertaken in the Month of September.

The following Engineer's Report reflects the activities undertaken this past month, along with the anticipated engineering activity for the month of October.

- A. Sunfish Lake Outlet Cleaning / Condition Update** – I was contacted by a few residents on September 24th regarding the high lake levels in Sunfish Lake. The outlet was significantly plugged with sediment from run off from Charlton Road. Compounding the issue was the culvert pipe that carries both the lake discharge and roadway drainage to the west was plugged as well from gravel washing from Charlton Road. The problem is how the outlet discharge pipe and the drainage pipes system along Charlton Road are configured. Both the roadway culvert along the east side of Charlton Road and the Lake Outlet pipe join together in a common manhole at the mid-point of the 90 degree bend before the drainage is directed westerly toward Delaware Avenue in a common pipe. The current configuration does not separate the roadway drainage from the lake drainage inside the manhole and during heavy rain fall events washes sediment into both pipes, which over time plugs them both. The lake level on September 30th was 6" above the outlet pipes elevation.

I authorized Goliath who has the equipment to clean these pipes to clean and dispose of the sediment material from not only the two discharge pipes, but also for the 3 downstream driveway culverts. As of September 30th, the system was cleaned out and flowing at its capacity. I would recommend that the outlet pipe be closed once the water level normalizes and look for a better solution as part of future Charlton Road improvements.

- B. TH 110 Casing Pipe Decision** – I completed and forwarded a plan to MnDOT for the proposed casing pipe under TH 110. In October I'll be finalizing the plan and working with MnDOT on the agreement. The casing length worked out to be 200 feet, which puts it 30 feet beyond the edge of the roadway pavement on the north side. I was not able to extend the pipe all the way to the edges on MnDOT Right-of-Way on the north do the existing trail.
- C. Charlton Rad Feasibility Report** – The City Council directed WSB to prepare an estimated cost to prepare a feasibility report, detailed preliminary roadway layout along with identifying easement widths and preliminary construction limits for improvements to Charlton Road based on recent meetings with residents. The preliminary layout will be closer to a 30% design level, so specific roadway details can be worked through with the residents to help visualize the project. The costs we estimate for this level of effort are \$22,500.

D. Building and Site Reviews – Over the past month we have had one final site inspection.

- The minor site review was for plans for an accessory structure at 55 Salem Church Road. The plans were previously submitted, but needed some additional information. It is now approved from an engineering standpoint.
- The final site inspection was for the site improvements at 325 Salem Church Road.

2. Public Works' Activities Undertaken in the Month of September.

A. 2016 Crack Seal and Seal Coat Project – The contractor completed the striping along Salem Church Road from Delaware Avenue to Roanoke in the beginning of September and is now fully completed. The original bid value was \$33,068.00 and the final approved value came out to be \$32,276.25. The payment request will be on the November Council meeting agenda for approval.

B. 2016-2017 Snow Plow Quotes – In September, we requested four quotes and only received (2) snow plow quotes back for this upcoming winter season. The two contractors were Professional Snow Removal Service and Executive Contractors, Inc. Attached to the engineers report is our Snow Plow removal summary of quotes we received for your information. Last year the City selected Executive Contractors, Inc. for their snow plowing services. We have reviewed the quotes and ran a comparison based on a 6-hour snow fall event using 14 tons of sand to determine which vender provides the best value to the City and also took into account both companies performances over the past 2 years. Therefore, I am recommending that we select Executive Contractors, Inc. for this season's snow plowing.

3. Anticipated Engineering Activities for the Month of October.

A. Charlton Road Potential Improvements – Continue coordination with the Charlton Road Task Force to develop a strategy for improvements along Charlton Road.

B. 2017 City Improvement Project – Finalizing the feasibility report for action by the City Council at the November meeting. The current schedule calls for a Public Hearing in early 2017 in order to authorize bidding in March of 2017.

4. Public Works' Activities Planned for in the Month of October.

At this time, there are no planned City Public Works activities for the month of October.

The above constitutes the Engineering Report for the City of Sunfish Lake for October 4, 2016.

Respectfully submitted,

WSB & Associates, Inc.



Donald W. Sterna, PE
City Engineer