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DATE: November 10, 2016
TO: Village of North Hudson Public Works Committee Members
FROM: Kevin Oium, Village Engineer
REGARDING: 2010 Sanitary Sewer Televising

Back in March of 2010, Infrastructure Technologies televised seven different stretches of sanitary sewer within the Village to determine the current condition of these mains. The streets where this work took place include:

- Lund Street (10th Street to 10th Street)
- 10th Street (Krattley Lane to South Cul-de-Sac)
- Monroe Street (Lemon Street to Helen Street)
- Alley East of S.T.H. 35 (North End Road to Sommers Street)
- Lemon Street (Sommers Street to Monroe Street)
- Michaelson Street (S.T.H. 35 to 10th Street)
- S.T.H. 35 (Wisconsin Street to North End Road)

Below is a summary of our observations and recommendations:

Lund Street - According to records, this section of sanitary sewer was constructed between 1966 and 1976 which puts it about 45 years old. The main itself is constructed of vitrified clay. This was a commonly used material for this time period. Overall, the pipe is in good shape. However, there were some roots noted in some of the joints. We recommend continuing to monitor the growth of these roots through future televising.

10th Street – The pipe material of the main is vitrified clay and is approximately 45 years old. After looking at the televising reports, it was determined that the main is in good shape. However, there are some sections where heavy roots were encountered during the televising. This section was mainly between 615 and 626 10th Street. In addition, there was one cracked pipe and a repair to a broken pipe at the south end of 10th Street close to 516. We recommend having a company come in and treat the roots prior to having them cut. This is assuming no previous work has been completed already.

Monroe Street – It is unknown as to the date this section of main was constructed. The pipe is mainly constructed of vitrified clay with one section being PVC towards Helen Street. Overall, the pipe is in good shape. However, there were some heavy roots noted between 910 and 1018 Monroe Street. We recommend having a company come in and treat the roots prior to having them cut. This is assuming no previous work has been completed already.

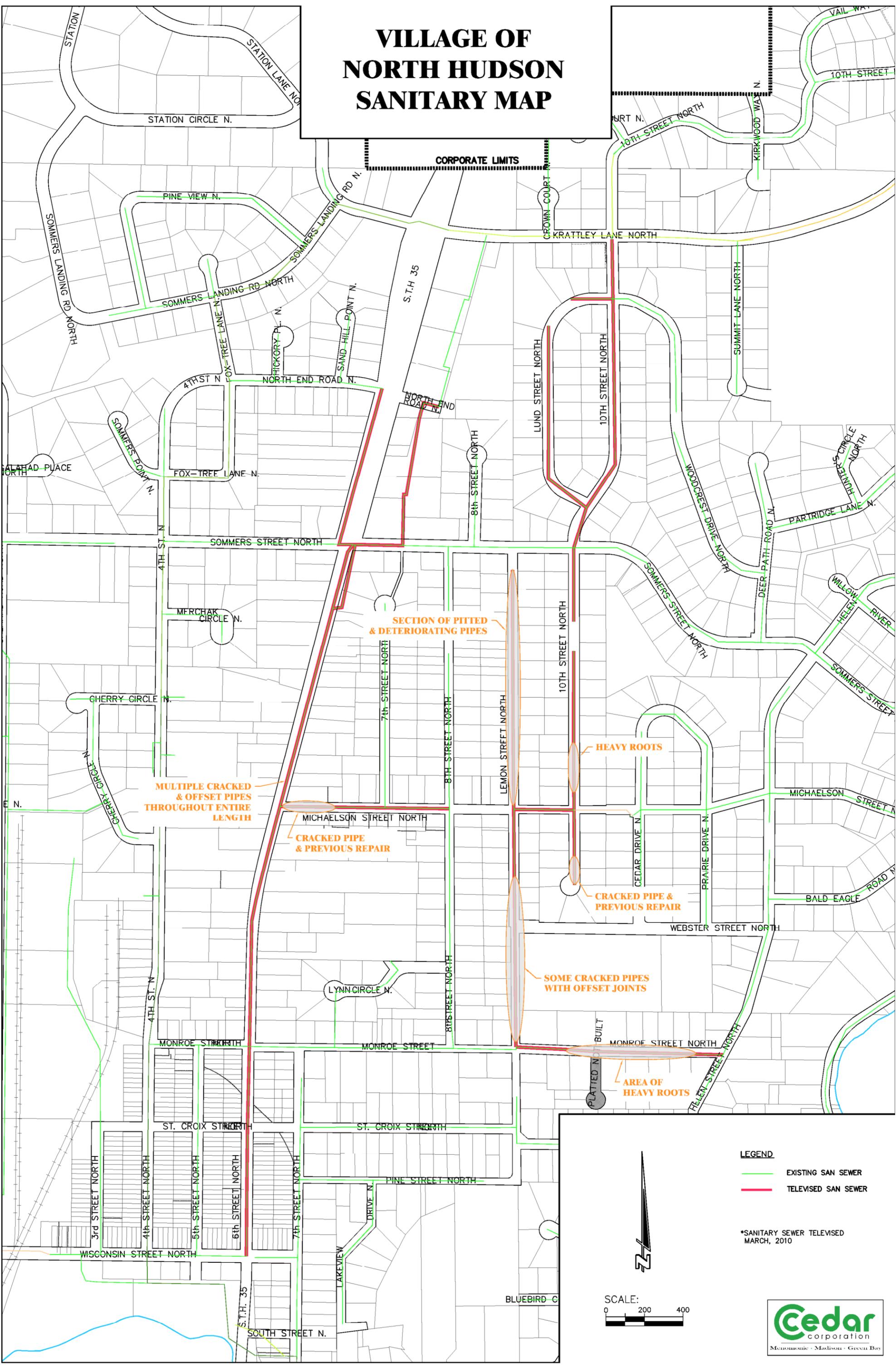
Alley East of S.T.H. 35 – According to records, this section of sanitary sewer was constructed between 1986 and 1996 which puts it about 25 years old. The main itself is constructed of PVC. This was a commonly used material for this time period. There were no deficiencies found during the review of the televising reports including any roots. No work is required.

Lemon Street – It is unknown as to the date this section of main was constructed. The pipe material is mainly vitrified clay with one section being iron pipe and PVC. We noted that the main north of Michaelson Street is fairly pitted and starting to deteriorate. This could be from hydrogen sulfide gas potentially from the Cedar lift station forcemain. Also, there were some cracked pipes with offset joints noted south of 543 Lemon Street. We recommend either replacing or slip-lining the main north of Michaelson Street depending on the overall scope of the project at the time.

Michaelson Street - The pipe material is vitrified clay and is approximately 60 years old. Overall, the pipe is in good shape. However, there were some roots noted in some of the joints. In addition, there is one cracked pipe and a repair to a broken pipe at the west end towards S.T.H. 35. We recommend continuing to monitor the growth of these roots through future televising.

S.T.H. 35 – This is one of the oldest sections of sanitary sewer main within the Village. According to records, it was constructed prior to 1944. The pipe material is mainly vitrified clay with some sections being reinforced concrete and PVC. There are a number of cracked pipes and offset joints throughout the entire length. It is recommended that the main and service laterals be replaced at the same time S.T.H. 35 is reconstructed.

VILLAGE OF NORTH HUDSON SANITARY MAP



- LEGEND**
- EXISTING SAN SEWER
 - TELEVISED SAN SEWER

*SANITARY SEWER TELEVISED MARCH, 2010

