



ENGINEERING DEPARTMENT

Michael G. Lewis  
Director of Public Works / City Engineer

414/302-8360  
414/302-8366 (Fax)

City Hall  
7525 West Greenfield Avenue  
West Allis, Wisconsin 53214

[www.ci.west-allis.wi.us](http://www.ci.west-allis.wi.us)  
[mlewis@ci.west-allis.wi.us](mailto:mlewis@ci.west-allis.wi.us)

MEMORANDUM

TO: Michael G. Lewis, City Engineer/Director of Public Works  
FROM: Brian D. Block, Traffic & Utility Technician *BB*  
DATE: March 25, 2013  
RE: Claim Against the City of West Allis by Gene Wagner Plumbing Co. Inc. for the repair of sanitary wye connection and lateral at 2318 S. 66 St.

SUMMARY

The property owner of 2318 S.66 St.experienced a back-up of their lateral sewer into their basement. They hired a plumber; Gene Wagner Plumbing Co. Inc. Gene Wagner Plumbing Co. Inc. sent a digital camera into the lateral from the interior clean out but was unable to view the entire sanitary lateral to the main because the camera encountered a backup in the line. The location of the blockage was found using a transmitter on the camera in the line and a receiver at the surface or pavement. The blockage was found to be in the pavement area at a temporary asphalt patch over the city's water main. Gene Wagner Plumbing excavated and found that the sanitary wye connection was broken and missing and the pipe connected to the wye was displaced. The soil around the broken section of pipe was black. I instructed Gene Wagner Plumbing that the repair would require a sanitary main spot relay. Gene Wagner Plumbing completed the repair with a sanitary main spot relay, sanitary lateral reconnection and backfilled with slurry then placed temporary asphalt surface.

FINDINGS & OBSERVATIONS

- Existing conditions and utilities in S. 66 St. at the address 2318 S. 66 St.

The 7" thick concrete pavement at 2318 S. 66 St. is a variable 30'-36' width pavement in a 60 ft. right of way. Both sides of the street have concrete sidewalks. There is an approximate 12' x 10' temporary asphalt patch in the pavement at 2318 S 66 St. The temporary asphalt patch was placed by the city and is located over a water service repair for 2318 S. 66 St. that occurred on December 22, 2012.

The existing City of West Allis underground utilities in S. 66 St. at the above-referenced address consists of the following;

UTILITY	YEAR INSTALLED	LOCATION
6 in. cast iron water main	1929	24 ft. west of east RoW line
8 in. clay sanitary sewer	1929	30 ft. west of east RoW line
10 in. concrete storm sewer	1946	24 ft. east of west RoW line

City records indicate that the existing sanitary sewer lateral at 2318 S. 66 St. is a 6 in. clay pipe installed in 1930.

- **Chronology**

Monday, March 11, 2013

Gene Wagner Plumbing telephoned me to say that the property at 2318 S 66 St was experiencing a backup of their sanitary sewer. Gene Wagner Plumbing said the property owner claimed that the sanitary problem began after a water service in front of the property was repaired by the Public Works Water Division in December of 2012. Gene Wagner Plumbing said that they had inserted a camera into the sanitary lateral from the house side but encountered an obstruction and camera was submerged. Gene Wagner Plumbing located the obstruction using a transmitter on the camera and a receiver on the surface. The location of the camera in the pipe at the obstruction was under the temporary asphalt at the water service repair.

Tuesday, March 12, 2013

Gene Wagner Plumbing obtained excavation permit number 9649 to repair the sanitary lateral at 2318 S. 66 St. Gene Wagner Plumbing excavated to the sanitary lateral at the water main in S.66 St. The depth of the water main as measured from the pavement surface to top of the water main is 7.1 feet. The vertical clearance between the sanitary lateral under the water main was approximated as 15 inches. The sanitary lateral was found intact at this location and was on about a 45 degree angle down from house side to sanitary main. Gene Wagner Plumbing broke a hole into the clay sanitary lateral in order to investigate to find the cause of the obstruction. Gene Wagner Plumbing excavated to the wye connection on the main and found that the sanitary lateral pipe dislodged off the wye and the wye bell section broken and missing. I instructed Gene Wagner Plumbing that the repair would require a spot relay of the 8 in. sanitary main and installing an in line wye to reconnect the sanitary lateral for 2318 S. 66 St. Gene Wagner Plumbing used 3.1 ft. of 8 in. PVC. pipe, (1) 8 in.x 6 in. wye, (2) 8 in. fernco connection, 7.1 ft. of 6 in. PVC. Pipe, (2) 6 in. 45 degree bends, (1) 6 in fernco connection for the repairs. Gene Wagner Plumbing bedded and covered the new pipe and connection with stone chips and placed slurry backfill.

Wednesday, March 13, 2013

Gene Wagner Plumbing placed temporary asphalt surface and removed barricades.

#### **CONCLUSIONS/RECOMMENDATIONS**

It is my opinion that the back-up of sewerage at 2318 S. 66 St. was that result of a failure of the wye connection on the city main.

I am recommending payment of \$7,523.04 to Gene Wagner Plumbing which is the amount of Gene Wagner Plumbing Invoice No. 79327 dated March 18, 2013 for their work performed in repair of the city wye connection and lateral reconnection. I reviewed Invoice No. 79327 and found it to be accurate and reasonable.

cc (via email): Joseph Burch  
Michael Romens