

TO: John Gerhardson, Public Works Director  
FROM: Jack Brinkhaus and Wayne Quast, Supervisors  
DATE: October 28, 1991  
SUBJECT: Toni Anderson - 1400 Park Drive - Drainage

On October 9, 1991, Jack and Wayne along with Gregg and Scott with the jettrodder went to check the drain pipe at 1400 Park Drive.

We located the inlet end of the pipe near the southeast corner of the garage and uncovered and cleaned out the end of it. It was plugged with dirt, weeds and debris and the first section of pipe was smashed.

We jetted from the inlet end, cleaning the pipe as we went, and when we hit 87', we hit an obstruction. The obstruction was directly below a slight dip in the lawn approximately 10' from the blacktop street and 8' from the west edge of the driveway.

After repeated tries to get through, we assumed we had a broken pipe and reported our findings back to John Gerhardson.

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TO: John Gerhardson, Public Works Director  
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On October 15, 1991, we returned with the backhoe and excavated a hole at the location of the dip in the yard where we assumed the pipe was plugged.

After uncovering the drain pipe we could see where the pipe had been broken during the installation of the sanitary sewer line from the Anderson home to the street sewer main. It was not repaired properly - they tried to patch the gap in the broken drain line with 8" plastic pipe. The gap was about 6' long.

At this point, we used the backhoe and went down the fire lane and found the outlet end of the drain line and again used the jettrodder to go up the drain pipe toward the street to see if it was now clear. When we got in to approximately the south side of the street, we again hit an obstruction and could go no further. We then took the jettrodder hose down into the hole we had excavated at the site of the first blockage and entered the pipe again heading toward the lake. The hose went in approximately to the north side of the street. We removed the hose from the line and measured where we had been and could see we were now overlapping somewhere in the drain line.

We now assume that the drain pipe was cut again in the middle of the street when the contractor installed the sanitary sewer main. The pipe was repaired with a larger pipe and shoved over the broken drain pipe ends so when we run in the jettrodder hose, we travel down the old drain pipe and when we hit the missing section, our hose drops down to the new larger pipe, travels to the far end of the break and hits the edge of the old pipe and can go no further. The same thing happens when we go from the lake side, we go through the drain pipe, drop into the new larger pipe and hit the lip of the smaller pipe on the other side of the street.

This section of the drain line drained very good down toward the lake and we assumed the only reason we couldn't get through with the jettrodder was because we are dealing with two different sizes of pipe.

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We now took the backhoe and started digging a trench following the old drain pipe out of our first hole in Anderson's front yard. We dug to about the middle of the street and stopped. We could now see that the whole system needed work. In Anderson's back yard at the inlet end, the drain pipe is 8" cement pipe and when we dug our first hole, we found vitrofied clay pipe patched with black plastic pipe. Continuing toward the street and lake, we again found vetrofied clay pipe and more plastic.

At this point, we decided we had seen enough and needed to order a catch basin and pipe to replace the system.

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