

MINUTES OF A MEETING OF THE HEALTH & SANITATION COMMISSION OF THE VILLAGE OF NORTH BARRINGTON, WHICH WAS HELD TUESDAY, NOVEMBER 2, 2004, AT THE NORTH BARRINGTON VILLAGE HALL
111 OLD BARRINGTON ROAD IN SAID VILLAGE

1. Call to order and Roll Call

At 7:30 Chairman Gery Herrmann called the meeting to order and the Deputy Clerk called the roll:

Present: Chairman Gery Herrmann, Robert Strain, Barbara Cragan,
Pete Wesley, David Wilford, Alternate Frank Mattioli
Absent: None
Also Present: Natalie Karney, Health Officer
William Inglimo, CRI Engineering, Wauconda
Tracy Inglimo, CRI Engineering, Wauconda
Dan Patton, 256 Drury Lane, N. Barrington
Sue Manko, Deputy Village Clerk

2. Approval of Past Minutes-October 5, 2004 Health & Sanitation Meeting

The Minutes of the Meeting were made available to the Commission.

Motion: Robert Strain moved that the Minutes of the October 5, 2004 Health & Sanitation Meeting be approved; seconded by David Wilford.

Discussion: There was no discussion.

Vote on Motion

By Roll Call:

Ayes: Chairman Gery Herrmann, Robert Strain, Pete Wesley,
David Wilford, Barbara Cragan
Nays: None
Abstain: None

Chairman Gery Herrmann declared the motion approved and put on file.

3. Variance Requests 256 Drury Lane

- A. Code 4-5A-6: variance to allow a drip type septic system
- B. Code 4-5A-7: variance to allow the septic system to be 4 feet from the east property line, not 10 feet from the property line
- C. Code 4-5A-7: variance to allow septic tank to be 6.5 feet from the house, not 10 feet from the house

Mr. Dan Patton, 256 Drury Lane, came before the Commission and explained the current situation at his home. The previous owners had obtained the approval of the installation of an at grade septic system, but opted for remedial repairs instead. The nature of the repairs were not disclosed to Mr. Patton at the time of purchase. There was also a concrete walkway constructed over part of the area of the proposed plan. Since they have moved into the house, there has been an ongoing problem with bathtub backflow from the septic system. Mr. Patton attempted to contact the engineer involved with the previous proposal and was unsuccessful. He began to research engineering options and hired CRI Engineering to design a system that would address drainage issues and move the septic system further from the house. Mr. Patton explained that they would like a design solution that would work with the current capabilities.

Ms. Tracy Inglimo of CRI Engineering addressed the Commission to explain the recommended septic system at 256 Drury Lane. CRI Engineering is recommending the installation of a Geoflow Subsurface Drip System instead of the at-grade system previously recommended to the previous property owners. Tracy Inglimo passed out pictures and information on currently installed Geoflow Subsurface Drip Systems in the Long Grove, IL area. She explained that she had recently been out to observe these installed systems and that all of them are in working order with satisfied clients. She also brought attention to a satisfaction letter from a current North Barrington resident using the Drip System as well as the approval letter for use of the Geoflow Subsurface Drip System in accordance with the Illinois Guidelines for the Design, Installation and Evaluation of Subsurface Drip Irrigation Systems. The reason for the recommendation of a Drip System is the drainage and the size of the property involved. Mr. Patton also wants to save the large, established trees on his property. Tracy Inglimo also showed the Commission a letter from the manufacturer of the Geoflow System stating that the system is appropriate for the conditions at 256 Drury Lane. Mr. William Inglimo of CRI Engineering came before the Commission with a diagram of the property. He explained that his firm deals with more difficult proposals for properties not eligible for conventional systems. He explained the concept of the Drip System, being that it evenly and slowly distributes the waste water discharge throughout the infiltration area over time. He referred to it as a "time dosed" system contrary to a trench or at-grade system. He explained the drip irrigation concept and that it operates on a time basis throughout the day evenly distributing the water as it becomes available in the pump station. He explained that the natural grading of the home, including the roadway, moves towards the house. He also believes that the existing trees would aid in water absorption. Mr. Inglimo feels the homeowner has no other workable option and that the issue of waste water must be dealt with immediately. He also noted that the subject of this was a Village issue because of the need for further work on the existing swale for road drainage. Mr. Inglimo explained that there would be a phase two to this project which would be the addition of road swales and additional under drain tile to contain the water and direct it into the original stormwater drains. Mr. Inglimo stated that if this system did not prove successful, the drip tubing could be dug up and an at grade system could be installed.

There were questions from the Commission. Mr. Wilford questioned the possibility of these

drainage problems creating a pooling of sorts. Mr. Inglimo explained that there was no significant water flow that would go in one direction and pool. The Commission also discussed the possibility of the water being directed towards the neighboring homes. Mr. Inglimo stated the importance of building up existing landscaping to prevent water flow onto neighboring properties and to aid in water absorption. Chairman Herrmann expressed a concern that with the extensive water accumulation, how a differentiation was made between water and effluent surfacing on the area. Mr. Inglimo responded that there was no history of any standing water in the mentioned area. There was discussion about the pooling locations of water in relation to the house. The homeowner pointed out the locations that pool with water, and that he intends to address this following the resolution of the septic system. Mr. Inglimo responded to the maintenance question by explaining there is a yearly maintenance and said the system automatically flushes itself. He again expressed his concern for the time frame to install this system since it requires dry, non frozen ground. Chairman Herrmann asked Health Officer Natalie Karney her opinion. Ms. Karney explained to the Commission that she had reviewed the previously approved plan for 256 Drury Lane. Ms. Karney stated that there is sufficient space for the proposed Drip System, but she concerned that the actual system is not large enough for its water distribution requirement. She is also concerned about the drainage issues and that the lack of slope in the field area could contribute to the failure of the drip system as too much run off water can overload the system. She said there is a small amount of slope in this case, and that this system is considered to be experimental under these conditions. She asked that the applicant submit their application to the State of Illinois for an experimental permit for monitoring purposes since quite often Lake County does not submit the application to the State. She referred to the Illinois Guidelines for the Design, Installation and Evaluation of Subsurface Drip Irrigation Systems packet. Ms. Karney feels that the listed requirements need to be incorporated into the recommendation in order for her to feel comfortable considering this system. She stressed that the homeowner needs to be aware of the fact that this system is considered experimental and must be willing to replace if it in the event of malfunction. Ms. Karney would also like to see the drainage plans for Phase Two and submit them to the Village Engineers, Baxter and Woodman for review. Robert Strain questioned why the original proposed system was never installed and Natalie Karney responded that it was most likely due to financial reasons. He also questioned why the original proposed system was not being considered now. Natalie Karney responded that it was an issue of land disturbance from the sidewalk and the ability to provide the square footage of treatment, which the at grade system was unable to provide. The drip system may also have less impact on the drainage situation.

Motion: Robert Strain moved that the Health & Sanitation Commission recommend approval of the requested variance to install a drip-system septic replacement system at 256 Drury Lane using the plan prepared by CRI Engineering dated 6/8/2004, subject to adherence to the minimum requirements of the State and Village, the Illinois Guidelines design criteria, use of 600 gallons per day for the design instead of 500 gallons per day, use of a soil-loading rate of 0.4gpd per square foot instead of 0.48, inspection by the Health & Sanitation Commission of Phase Two of this project as proposed by CRI Engineering, submittal of an approval Experimental Permit (as per State classification) from the State, if determined to be required by

the State, a statement from the homeowners that they are willing to replace the drip system with an at-grade system in the event the drip-system fails, the submittal of a Performance and Maintenance Bond and the approval of the Village Engineer regarding grading and drainage issues; seconded by Barbara Cragan.

Discussion: There was lengthy discussion.

Vote on Motion

By Roll Call:

Ayes: Chairman Gery Herrmann, Robert Strain, Pete Wesley,
David Wilford, Barbara Cragan

Absent: None

Nays: None

Abstain: None

Chairman Gery Herrmann declared the motion approved and the recommendation passed on to the Village Board.

4. Recommended Code Change

Chairman Gery Herrmann reviewed the proposed code changes discussed at the previous meeting. The Commission read through Natalie Karney's recommended changes to the current code 4-5A-11 (B1) (Improvement to Structures) requiring a homeowner to bring the entire septic system to code even in the event of a small addition or building alteration. The Commission discussed the possibility of including the addition of an aerator. Natalie Karney brought to the Commission's attention that doing this would add another component to the process, also possibly requiring a lift station. This would add considerable financial costs.

Motion: Barbara Cragan made a motion that the Health & Sanitation Commission recommend a revision to code section 4-5A-11 (B1) (Improvement to Structures) to read as follows:
"When a septic tank relocation is required by reason of a building alteration or addition, only the tank system needs to be brought into compliance with existing codes. If the building alteration or addition affects any part of the septic system, an evaluation report must be submitted on the condition of the existing septic field. If the existing field is found to be in poor condition, the entire system shall be brought into compliance with current Village Code Provisions and Regulations.

When a septic alteration is required by reason of a failing system, the existing system shall be brought into compliance with existing Village Code Provisions and Regulations to the extent feasible, taking into consideration existing lot size, topography and other permanent features"; seconded by Pete Wesley.

Discussion: There was lengthy discussion.

Vote on Motion

By Roll Call:

Ayes: Chairman Gery Herrmann, Robert Strain, Pete Wesley,

David Wilford, Barbara Cragan
Absent: None
Nays: None
Abstain: None

Chairman Gery Herrmann declared the motion approved and the recommendation passed on to the Village Board.

5. Old/New Business
 - A. Health & Sanitation Commission Code of Conduct Review

Chairman Gery Herrmann reviewed the Code of Conduct for the Health & Sanitation Commission and complimented the Commission's awareness of their required duties. He asked that any upcoming issues and questions be discussed amongst the Commission and urged everyone to consult Natalie Karney with any technical questions. Barbara Cragan complimented Natalie Karney on her report.

6. Adjournment

Motion: Barbara Cragan moved the meeting be adjourned; seconded by Pete Wesley.

Discussion: There was no discussion.

Vote on Motion:

The voice vote was unanimous in favor.

At 8:50 P.M. Chairman Herrmann declared the Meeting adjourned.

These Minutes were approved at the Health & Sanitation Commission Meeting held January 4, 2005.

ATTEST:

Sue Manko, Deputy Village Clerk

