Meeting Summary
Natural Resources and Technical Systems Committee
October 20, 2015, 5:30 p.m.

Committee Members:	Dave Moreau (Chair), Ruchir Vora
Board Members:	Bob Morgan, Jeff Danner, Barbara Foushee
Staff:	Mary Darr, Todd Spencer, Jeremy Fireline, Vishnu Gangadharan, Todd Taylor, Stephen Winters, Bob Epting, Ed Kerwin, Ruth Rouse
Visitors:	Stephanie Stadler, Veronica Bitting, Kathy Thomas, Katie Jansen

The NRTS Committee met to hear an overview of OWASA's policies and practices to develop new water or sewer systems, hear background information regarding the Historic Rogers Road Area (HRRA), and to obtain an overview of the current project to design sewer to serve HRRA.

Overview of OWASA's Policies and Practices for Extending Public Water and Sewer Mains to New Development Sites

Todd Spencer, Engineering Manager for System Development provided an overview of how water and sewer systems are developed according to OWASA's policies and practices. For both water and sewer, the benefitting party must pay for the water or sewer project. He provided a hypothetical example of a new development to illustrate the practices:

Water

- Water lines generally located in roadways to provide access to valves
- When possible, new water mains are connected to the existing system in multiple locations. This provides redundancy if a water main break occurs. It also provides for enhanced flows and water quality and removes 'dead-ends' in our distribution system.

Sewer

- OWASA prefers gravity sewer as opposed to pumped wastewater systems. Sewer lines are placed so that sewer will flow downhill to connect to existing sewer mains. Thus, sewer routing may not necessarily follow roadways.
- In order to provide for the orderly expansion of the public sewer system to upstream properties, OWASA will often request that dedicated easements be reserved on a development property for that purpose

For both water and sewer projects, OWASA observes the construction and obtains as-built drawings and other various documents when the project is completed.

Background Information Project to Provide Sewer Service to Historic Rogers Road Area

Mary Darr, Director of Engineering, provided a history of the HRRA project. The project is being developed to offset any impacts from the landfill located just north of the area. Water was provided in 2002 and was funded by solid waste funds.

OWASA has been working with the County since 2007 to provide technical support to provide sewer to the HRRA. OWASA used a qualifications-based process to hire URS (now AECOM) to develop a preliminary engineering report, which was completed in March 2015. The findings of that report estimate 3.5 miles of gravity sewer lines at a cost of $5.7 million.

Overview of Current Project to Design Sewer System for HRRA

Jeremy Fireline, Utilities Engineer and Project Manager for OWASA on HRRA provided information on the current project to complete final design of the sewer system. AECOM is the engineer, and the timeline for the project follows:

> Dec 2015 – 30% design completed which means we will know the exact alignment. County can then begin obtaining easements.
>
> March 2016 – 60% design, which means we will know how deep the lines will be within the alignment
>
> June 2016 – 90% design which means design is almost complete. This design will be used as basis for permit applications. The only changes from this point are any requirements from the regulatory agencies issuing permits.
>
> Sept 2016 – Final design

This schedule could change; obtaining easements could take longer than planned.

OWASA's current interlocal agreement with Orange County takes the project to final design. A new interlocal agreement will be needed to bid and construct the project. We estimate that it will take 4 months to bid the project according to state requirements and an additional 12 months to construct it.

Next Meeting
At the October 22 Board of Directors meeting, the Board will determine if there needs to be a NRTS Committee meeting in December to discuss the Advanced Metering Infrastructure (AMI) project. If so, the December meeting will be about AMI; otherwise, it will be to discuss the Energy Management Plan.

The meeting was adjourned at approximately 6:45 PM.

Prepared by:

Ruth C. Rouse

Ruth Rouse, AICP
Planning and Development Manager