



COMMUNITY OPEN HOUSE SUMMARY - Conveyance
Saturday, January 26, 2013, 10:00 a.m.-12:00 noon
On-site at 32nd Avenue West near West Galer Street, Seattle

Meeting Overview and Purpose

King County's South Magnolia CSO Control Project team held an outdoor public open house on Saturday, January 26th, to provide the community with updated information on the Horizontal Directional Drill (HDD) and Direct Pipe® (DP) pipeline installation methods. The on-site meeting format was intended to increase community understanding and allow the design team to hear local information and concerns about potential construction activities associated with the pipeline installation methods.

The outdoor briefing was held at the pullout on 32nd Avenue West with informal discussions at two potential locations for conveyance pipeline installation and diversion structure construction. Strong windy weather prevented the team from leaving directional signs or other potential projectile items to indicate the gathering location adjacent to the County's CSO control point.

Shahrzad Namini, Project Manager, and Monica Van der Vieren, Community Services Lead, welcomed community members as they arrived and let participants know that technical design team members were on hand to explain the installation options and to answer their questions.

Discussions

Team members discussed project options with community members who attended the open house. Design team members used a series of 11x17-inch discussion sheets that depicted project details to explain work sequences, advantages and constraints for each option as well as potential construction impacts and how they could be addressed.

Team members also went over the schedule required to install the approximately 3,000 feet of gravity sewer pipeline to link the storage tank on 23rd Avenue West with an underground diversion structure and the trunk line leading to the West Point Treatment Plant.

Summary of Meeting Questions and Discussion

Five neighbors attended the meeting, and four additional people who were unable to locate the gathering spot contacted Monica after the meeting.

To notify the community about the open house, invitations were mailed to 130 nearby neighbors followed by hand delivery of fliers to 35 homes on 32nd Avenue West, 33rd



Avenue West, Crockett Place West, Magnolia Boulevard West and Clise Place West. An email reminder was also sent to neighbors in the area of 32nd West prior to the event.

Following is a summary of topics that were discussed and questions that were raised during the informal event.

What is the status of the project?

King County Wastewater Treatment Division is working to complete design and construction of the South Magnolia CSO Control Project within the deadlines established by the Washington Department of Ecology. King County submitted the design for the South Magnolia CSO Storage Facility and the Conveyance portion of the project to the Washington Department of Ecology on December 31, 2012.

Construction is scheduled to get underway by the end of 2013. Before it can begin, a number of remaining steps must be completed including finalizing the permitting process with local and state jurisdictions, preparation of contract documents, and contractor selection and approval.

What are the soil conditions along the alignment?

King County geotechnical consultants have conducted detailed soil and groundwater investigations along the alignment. Results indicate that the soils and conditions are very good for both the proposed HDD and DP methods of pipeline installation. Both alignments have dense, glacially consolidated materials, which are typical for this region. Many utility pipelines have been successfully installed in the Pacific Northwest in the types of soils that are present here.

Magnolia has experienced landslides over the years. Is there a further risk for slides during construction of this project?

The proposed locations of the excavations for the trenchless pipeline installation are away from slopes in the South Magnolia area, and along with the prescribed construction methods for the project, the type of surface slides that have occurred this year are not anticipated to result for this project.

King County is monitoring ground movement and groundwater elevation in the South Magnolia CSO Control Project area. Readings will continue to be performed prior to, during and after pipeline installation. King County's geotechnical consultants do not expect construction along the alignment or on 32nd Avenue West will cause settlement problems.

Neighbors near the alignment may feel some vibrations during construction, but King County does not expect vibrations to be a problem during construction and does not plan to monitor vibration on nearby structures.



How will neighbors on 32nd Avenue be impacted by construction of the project?

There will be impacts to residents and traffic on 32nd during construction of the underground diversion structure in the street and also during pipeline installation, but residential access for deliveries and services, including emergency services, will be maintained at all times.

Residential parking will be accommodated during the work. Street closures may occur if the HDD method is used and pullback occurs from 32nd Avenue West. King County will work closely with affected residents to share project information, learn more about residents' needs, and respond to concerns and complaints during the construction phase.

We are continuing to gather more information to address potential impacts for neighbors who live on 32nd Ave:

- We have identified measures to reduce potential noise impacts during construction including the use of quieter generators and equipment enclosures where needed, and we will continue to look at more options.
- We will work with the contractor to establish contractor/worker parking policies that will not adversely impact residents.
- If a temporary road is required for the HDD installation option, there will be one-way traffic during the day, and two-way traffic restored at night. The contractor will maintain emergency access at all times within the right-of-way (ROW). We will also work closely with neighbors to ensure access to and from properties.
- If work activities for Direct Pipe occur on the south end of 32nd, we will work with residents to develop alternatives for those who use the ROW in this area for parking.
- We will work with neighbors if driveways require short-term closures.
- If there is a need for a short-term road closure, we will work with neighbors individually to provide access and address other needs. If necessary, we will provide temporary accommodations for residents during closures.

This spring, King County will install a 24-hour construction hotline to respond to questions and concerns. As we move closer to construction, we will continue to work closely with individuals to lessen impacts. We welcome suggestions on steps that we may be able to take. The 24-hour construction hotline will remain in place throughout construction to ensure a quick response and address any problems that may arise at any time, even outside of work hours.

How long will construction take on 32nd Avenue West?

Work on 32nd Avenue West is expected to take about 15 months to complete, whether the HDD or DP® method of construction is utilized.



What is the depth of the pipeline?

The pipeline is about 12 feet deep at each end(32nd Ave. West & Smith Cove Park) and 160 feet deep at the deepest portion of the alignment below West Galer Street.

How deep is the diversion structure?

The depth will be about 15 feet at both potential 32nd Ave. West locations.

Where will the pipeline on 32nd lead to?

During storms, combined sewer flows will be transferred to the diversion structure on 32nd Avenue West and then conveyed in the new 3,000-foot gravity pipeline to the underground storage tank that will be constructed adjacent to 23rd Avenue West just south of the Magnolia Bridge. After storms have passed and peak flows are reduced, flows will be transferred from the storage tank to the Interbay Pump Station for conveyance to the West Point Treatment Plant.

What will 32nd Avenue West look like on the surface when construction is complete?

If the HDD method is used, there will be a paved pullout area in the right-of-way for operations crews to access an electrical cabinet that will be located behind bollards. There will also be a 4-foot tall rock wall, an air vent to allow air into the pipe and access hatches on the road in the pullout area that will allow crews to enter the diversion structure for routine maintenance.

If the Direct Pipe® method is used, the electrical cabinet and bollards will be installed in the right-of-way near the existing CSO diversion structure, and two additional hatches will be in the existing pullout on 32nd Avenue West adjacent to the roadway.

The project permitting staff and landscape architect will work with the City of Seattle to restore the ROW and any landscaping that has been disturbed. The architect will develop a planting plan with trees and native vegetation to restore affected vegetation. Trees will be replaced at a 2:1 ratio.

When will you know which method will be utilized?

Before construction can get underway by the end of 2013, a number of remaining steps must be completed. These include finalizing the permitting process and preparation of contract documents, drawings and specifications. This work will be followed by contractor selection and approval.

King County will select two separate contractors for the South Magnolia CSO Project; one to complete the Storage Facility and one to complete the Conveyance Pipeline. Construction on the Storage Facility will begin first followed by the pipeline construction.



King County will take proposals on two construction methods for pipeline installation, Horizontal Direction Drilling (HDD) and Direct Pipe (DP). King County will know the conveyance construction method for pipe installation on 32nd Avenue West when the contractor is selected, which is expected in late 2013. If an HDD contractor is selected in the bidding process, King County will know which staging pullback option will be used on 32nd Avenue West when the selected contractor's submittals have been reviewed and approved. We expect to have information for the community 2-3 months before pipeline installation begins.

King County will request bid proposals on the two methods because they are under a strict compliance deadline to reduce combined sewer overflows. Because there is a limited pool of contractors qualified for this work, bidding both methods helps ensure that there will be an available contractor to complete the construction within the required timeframe. Both HDD and DP are recommended methods to complete this work, and both offer a high degree of accuracy to follow the prescribed pipeline alignment.

How is the project being paid for?

King County Wastewater Treatment Division's capital projects are funded by regional ratepayers in the County's service area.

How long to tunnel between Smith Cove Park just west of the Storage Facility to the diversion structure on 32nd Avenue West?

The estimated time to install the pipe between these two locations is 28 weeks. Crews will install the remainder of the pipeline in an open trench across Smith Cover Park to 23rd Avenue West, which is estimated to take several weeks.

Will the Storage Facility be staffed?

The Storage Facility will be monitored remotely at all times from central operations and will not be staffed on a full time basis. King County operations staff will visit the staff regularly for routine inspection and maintenance.

How will truck hauling occur? Where will the spoils be taken?

Trucks coming to and from the work site will either be pipe delivery trucks, dump trucks for removing spoils or vactor trucks for removing slurry/drilling mud. They will typically be single trucks at any one time but may be multiple trucks per day. The route that trucks will take to and from the site is still being determined and will depend in part on the pipe installation method that will be used.



Comments and local information:

- A near neighbor noted that she felt the County had worked to keep people up to date through the project Web page and contacts with the community. *We will continue to work with the community throughout the project, and encourage people to contact us with questions, concerns, and requests for one-on-one discussions.*
- Neighbors noted that people in the near neighborhoods walk 32nd Avenue West to the beach daily, and that safe pedestrian access will be needed, especially if there is a temporary access road built for the HDD installation option. *King County's contract will specify the need for safe pedestrian access during construction, and Community Services staff will be available 24/7 if people have concerns about any issue, including pedestrian or vehicle access.*
- In the morning, especially during the summer, diesel fumes may build up in the ravine; when the marine thermals occur, the still air blows up, and in the past, construction has caused serious air quality problems. *King County's contractor will meet air quality requirements; this information is helpful for the team to convey in contract documents.*
- The County will have to protect pullout areas and electrical cabinets because people deliberately drive through ditches and use pullouts to party, and there has been vandalism in the area. *The project team appreciates this information and will evaluate how to protect equipment and access.*
- One resident expressed hope that the CSO control project will eliminate the air coming up from the area pipelines in storms. *When stormwater suddenly fills sewer pipes in large storms, air in the pipes can be displaced through manholes and residential fixtures. The project team was unaware of this issue from the local sewer pipeline on 32nd. King County will be addressing air management within the new portion of the system being installed as part of the project. This may not address an air management issue in the local sewer pipelines.*
- Drainage along the street has become increasingly worse. Neighbors are wondering whether the wetland designation of what used to be a roadside ditch is preventing the maintenance of the ditch, and how this project will affect drainage. *King County's project will include surface water management associated with the new construction in the affected areas as part of permits and easements. The team is meeting regularly with the City of Seattle and will convey the community's concerns to City staff.*

How can I get more information about this project?

Please visit the King County's web site at

www.kingcounty.gov/environment/wtd/Construction/Seattle/SMagnoliaCSOStorage, or contact Monica Van der Vieren at 206-263-7301 or Monica.Vandervieren@kingcounty.gov if you have questions.