

October 11, 2010

Notice to residents: Construction to begin on 53rd Ave NE near NE 195th St in Lake Forest Park

Surface construction that will make it possible to connect two Brightwater tunnels more than 300 feet below ground will get underway in mid-October to early November in your neighborhood on 53rd Avenue NE near NE 195th Street.

One of the two tunnels that will be joined here started from Kenmore in 2008 and reached 53rd in May 2009. A new tunnel is now under construction from the Ballinger Way Portal in Shoreline to meet the Kenmore tunnel under 53rd. In fall 2011 when the new tunnel reaches 53rd, the final connection between the tunnels will be made.

Prior to making this connection, it is necessary to stabilize the ground around the connection point to create a safe working environment below ground. The ground will be stabilized by freezing the soil using a network of pipes that circulate chilled salt water.

When work gets underway, contractors will use a truck-mounted rig to drill holes from the surface to the depth of the tunnels. Pipes will be inserted in the holes to circulate the chilled salt water to the tunnel zone to freeze the surrounding ground. The chilled water will be contained in the pipes and will not enter the ground. Ground freezing is a standard practice that was used successfully on the Brightwater project at the Ballinger shaft.

Following is a schedule and description of how work will occur on 53rd Ave NE

<p>Mid- to late Oct 2010</p>	<p>As a first step, Seattle City Light will temporarily relocate two power poles on 53rd so that overhead power lines will be out of the way for the drill rig. The poles will be returned to their original location when the work is done.</p>
<p>Nov 2010 to Feb 2011</p>	<p>Crews will dig trenches in the area where freeze pipe holes will be drilled. Holes will then be drilled and freeze pipes installed to the depth of the tunnels. Pipes will also be installed in the two-foot deep trenches and connected to chiller equipment located above ground on the shoulder on 53rd Ave NE. Trenches will be covered over as work progresses.</p> <p>A noise wall will be installed around the equipment to ensure operations are in compliance with applicable codes. Work hours are as approved by the City of Lake Forest Park. Most work will be done during daytime hours.</p> <p>Traffic flow will be maintained on 53rd.</p> <p>Drilling and support equipment will be similar to what was used on 53rd Ave in fall 2009.</p> <p>When pipe installation is complete, the drill rig will be removed and all trenches will be covered over. Only chiller and related equipment will be on the surface.</p>

~ See other side for more information

Brightwater Ground Freezing Operations
53rd Ave NE in Lake Forest Park ~ *continued*

Feb 2011 to Fall 2011	Chilled salt water will be circulated to the freeze zone 300 feet below ground to prepare for the tunnel connection. Equipment will run as needed to maintain necessary freeze levels.
Fall 2011	When the tunnel boring machine arrives from Ballinger Way, the connection will be made between the two tunnels. When the connection is complete, chiller units, pipes, pumps and related equipment will be decommissioned. The surface area, including pavement, mailboxes, shoulders and landscaping will be fully restored.
<i>Note: work periods described here may vary depending on ground and other conditions.</i>	

Throughout this work, King County and its contractors will continue to make efforts to minimize impacts to neighbors and to keep you informed about upcoming activities.

If you have questions or concerns, please call our 24-hour construction hotline at 206-205-5989 or email us at Brightwater@kingcounty.gov. Additional construction updates will be distributed as work progresses. More information about Brightwater including constructions updates about this work is available at <http://www.kingcountygov/brightwater>.

Brightwater is a new wastewater treatment system that will serve north King and south Snohomish counties. It is being built in response to continuing growth in our region and has been under construction since 2006.

Alternate formats available
Call TTY Relay: 711 or 206-684-1280