








Lake Hills and NW Lake Sammamish Sewer Upgrade Project

How we build

We are evaluating a number of construction methods to build the sewer upgrade at this early phase of design. The majority of the pipe will be installed using open-trench construction. Where feasible, we are considering construction methods that do not require us to dig a trench to minimize surface disruptions. Below is some additional information about open-trench construction and some of the trenchless methods we are considering.

Open-trench	Trenchless methods	
 <ul style="list-style-type: none"> • Most common method for installing pipes • Preferred for shallower work zones • Provides flexibility during construction to work around existing utilities • Requires digging trenches using backhoes and dump trucks • Traffic impacts include lane and trail closures and detours 	<p>Pipe ramming</p> 	<p>Microtunneling</p> 
	<p>Pipe boring</p>  <ul style="list-style-type: none"> • Does not require digging trenches along roadways • Requires two shafts on either end of the pipe • Can be used to limit disruptions on the surface • Only feasible in certain types of soils and conditions • Uses hammers, augers, or microtunneling machines 	<p>Pipe bursting</p> 

Construction sequencing

- Construction is expected to begin in 2020 and take three years to complete, but the entire sewer line will not be under construction at one time.
- Crews may work in segments or simultaneously at different locations along the alignment, minimizing disruptions to the community wherever possible.
- We are still working to determine exact sequencing for when each segment will be built.

We will share more information about construction methods and sequencing as design progresses.