

Willamette River Watershed

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NW Flanders Street and 11th Avenue Sewer Repair Project Construction to Begin This Spring

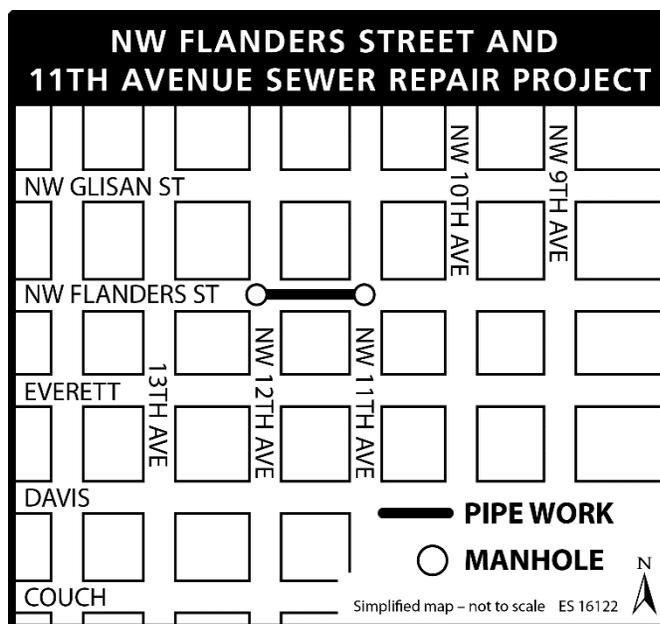
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Environmental Services has completed design on a project to repair about 250 feet of sewer pipe in NW Flanders Street between NW 12th and 11th Avenues (see map). The sewer was constructed in 1916 and shows signs of wear and tear, cracks, tree root intrusion and structural deformation due to stresses on the pipe. This project will protect public health, property and the environment, and reduce the possibility of sewage releases into streets, homes and businesses.

Schedule

The project is currently out to bid and will begin as early as spring 2017. Construction is anticipated to last through summer.



Pre-Construction Activities

- Survey crews will locate and mark existing utilities in the street with spray paint. Crews will then drill to verify underground utility locations and test soil and pavement conditions.
- In order to protect trees in the work zone, certified arborists from Portland Parks Urban Forestry will trim tree branches to a minimum height of 14 feet.

Construction Method

The city's contractor will use open trench excavation and a trenchless construction method called cured-in-place-pipe lining. For more information and photos, visit www.portlandoregon.gov/bes/methods. The work will include the following steps. There will be periods of inactivity between steps.

- Cut pavement to trench width
- Remove pavement and existing material
- Replace sewer connection for each property from the main line sewer to the curb (these are called laterals)
- Install pipe
- Repair or replace stormwater inlets
- Backfill with sand or gravel
- Pave with temporary asphalt
- Conduct pipe lining (accessed through manholes on NW 12th and 11th Avenues)
- Pave permanently

Continued



ENVIRONMENTAL SERVICES
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Over one-third of Portland's 2,500 miles of sewer pipes are more than 80 years old. Projects to replace or repair aging sewers are important for protecting water quality, public health, and the environment. Learn more at www.portlandoregon.gov/bes.

What to Expect During Construction

- Construction hours will be 7:00 a.m. to 6:00 p.m. Monday through Friday. The contractor may also schedule work during the same hours on Saturdays. One day/night of extended hours between 6:00 p.m. and 7:00 a.m. may be required to harden the pipe liner.
- Construction creates noise, vibration and dust and disrupts normal neighborhood activity.
- The contractor will maintain local access, but construction impacts the normal use of driveways or business entrances.
- You should expect traffic delays in and near the work area. Please observe traffic control signs and follow the directions of flaggers.
- **Portland Streetcar operations on NW 11th Ave will not be disrupted.**
- **The project will keep all lanes on NW 11th Ave open at all times.** Traffic on NW 12th Ave may see lane restrictions during work hours, but the street will remain open.
- On-street parking will be restricted in and near the work zones to create a safe work environment and to stage equipment and materials.
- Some equipment and materials may be stored on your street or nearby streets overnight.
- There may be periods of inactivity between construction phases due to a variety of factors including weather, subcontractor schedules and availability of materials.
- A city inspector will be on-site during work hours and may be able to assist you with an immediate need during construction.
- Sewer, water and other utilities will remain in service during construction.

For More Information

Visit the project web page at www.portlandoregon.gov/bes/nwflanders. To receive email updates on this project, click the "Sign Up!" button on the website. For questions or concerns, email Ashley.Tjaden@portlandoregon.gov with "NWFlanders" in the subject line. Please let us know if you have concerns such as business operations, disability issues, medical or business deliveries, or other concerns about how this project might affect your property.

The City of Portland complies with all non-discrimination laws including Title VI (Civil Rights) and Title II (ADA). To request a translation, accommodation or additional information, please call 503-823-7740, or use City TTY 503-823-6868, or Oregon Relay Service: 711

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Construction begins spring 2017**

Learn more inside about what to expect during construction.