



## Woodinville Water District

### 2021 Capital Construction Projects Summary

#### PROJECTS BEGINNING OR IN EARLY PROCESS

##### **# 1 Turn Lane Project**

- Project Location: On Woodinville-Duvall Rd, along frontage to District Campus.
- Project Description: This project will construct a center turn lane to provide District Staff & customers safe ingress and egress from the site. The asbestos cement watermain in the frontage will be replaced with new ductile iron pipe.
- Project Status: This project is at the design phase.

##### **# 2 2020 Sewer Sags Project**

- Project Location: There are two locations for this project. The first is in SR 202 near the intersection at NE 175<sup>th</sup> St; and the second is in the parking lot near the Old Navy/Bank of America.
- Project Description: This project will repair sags, and tree root intrusions in the sewer lines at these locations. These issues create extra maintenance. The completed project will reduce the chance for sewer backups and will allow the sewer lines to be more easily maintained.
- Project Status: This project is in the early design stages and District staff are coordinating with property owners.

##### **# 3 AC Water Main Replacement (D-5)**

- Project Location: The project is located along Woodinville-Snohomish Rd, within the City of Woodinville. This project was formerly named NE 177<sup>th</sup> Place R&R Project.
- Project Description: This project will eliminate Asbestos Cement (AC) pipe and replace it with new 8-inch ductile iron pipe. The objective of this project is to eliminate AC pipe from the distribution system and to improve the reliability of the system and in the City of Woodinville downtown area.
- Project Status: The design was completed and a bid opening held at the end of July 2021. Construction will start in September 2021 and is expected to take approximately three months to complete.

##### **#4 NE 166<sup>th</sup> St Water Main Improvements Project**

- Project Location: This work will connect to a dead-end water main located approximately at the intersection of NE 166<sup>th</sup> St and 228<sup>th</sup> Ave NE, and extend east to its intersection with an existing 12-inch main in 232<sup>nd</sup> Ave NE.
- Project Description: The purpose of this project is to eliminate a dead-end line and provide a redundant source of water in the NE corner of the District. Because of the number of large trees located on private property along the alignment, this project will utilize directional drilling/boring rather than conventional open trench construction.
- Project Status: The project is currently under design and is expected to be advertised for bids late summer with fall construction.

##### **#5 New Standpipe at Kingsgate**

- Project Location: At the Kingsgate Reservoir site, 13006 NE 144<sup>th</sup> Pl; Kirkland, WA.
- Project Description: Additional storage is required for this pressure zone and the existing reservoir has a number of structural and foundation issues that make replacement of the reservoir necessary.
- Project Status: Staff are in the process of working with a consultant to establish a scope-of-work for the replacement and demolition of the old reservoir. This project is expected to take approximately 2 years to complete.

#### **#6 Sewer Siphon 1 Reconfiguration Project**

- Project Location: Sewer Siphon 1, Near the Sammamish River Bridge in the City of Woodinville
- Project Description: Several improvements will be made to address operational issues at the siphon and to make the facility work more effectively and to be more easily maintained.
- Project Status: This project is currently under construction and is expected to be completed in 2021.

#### **#7 Update to the Comprehensive Sewer Plan**

- Project Location: This project is located throughout the District in the Urban Growth Area (UGA).
- Project Description: This project will provide an update to the Comprehensive Sewer Plan (CSP). Flow data will be collected to determine the existing and future capacity of the sewer system. A new list of Capital Improvement Program (CIP) projects will be created. The financial health of the Sewer Fund will be reviewed to determine if there are adequate funds to support the CIP projects. Any new policies that have been adopted will be included in the update also. CHS Engineers, LLC have been hired to perform this work.
- Project Status: The consultant has been working on the hydraulic modeling of the sewer system, creating projects for the Capital Improvement Program, and working on a strategy for replacement of the sewer in the Central Business District of Woodinville. The first five chapters of the document have been submitted for review and will be returned to the consultant in the next couple of weeks.

#### **#8 168<sup>th</sup> Ave NE & NE 148<sup>th</sup> St AC Water Main Replacement**

- Project Location: Along 168<sup>th</sup> Ave NE between NE 158<sup>th</sup> St and the Tolt Pipeline Trail, and along NE 145<sup>th</sup> St between 168<sup>th</sup> Ave NE and 162<sup>nd</sup> Ave NE.
- Project Description: Replacement of approximately 4,722 linear feet of existing asbestos cement pipe with ductile iron pipe having a larger diameter for higher flows.
- Project Status: This project is in the early stages of design.

### **PROJECTS NEARING COMPLETION**

#### **# 9 Replace Pumps/Motors at Hollywood and Ringhill Booster Pump Station**

- Project Location: Hollywood and Ringhill Booster Pump Stations
- Project Description: The pump/motors at the Ringhill BPS will be refurbished and reinstalled and the motors and pumps will be replaced at the Hollywood BPS.
- Project Status: This project began in the spring of 2021, but due to the length of time to rebuild the pump/motors, it had to be put on hold until the hot dry weather was through for the season. It is expected that the remaining two pumps will be changed out when the project restarts in October.

#### **# 10 Replace Generator at Ringhill Booster Pump Station**

- Project Location: Ringhill Booster Pump Station
- Project Description: Replace the existing emergency generator with a new generator, automatic transfer switch, and variable frequency drives.
- Project Status: The timing of this project was dependent on the project that replaced the pumps/motors at this same booster pump station. Currently the three variable frequency drives (vfd), the automatic transfer switch (ats), and the generator have been installed. The remaining item to be completed is the installation of a "thimble" through the roof for the exhaust and the start-up testing of the generator.

#### **# 11 East Ridge Elementary School Water Main Improvements**

- Project Location: The existing water main to be upsized is located north of the campus buildings, running from

the west property line to the east. Then a new main will be installed from the east end of the upsized main to the end of the existing water main in NE 159<sup>th</sup> St.

- Project Description: The purpose of this project is to increase the fire flow availability for the East Ridge Elementary School. Approximately 400 linear feet of 12-inch ductile iron water main will be used to upsize the existing 8-inch water main and 360 feet of new 8-inch water main will be used to connect the 12-inch to the existing 8-inch main in NE 159<sup>th</sup> St.
- Project Status: This project has currently been completed on time prior to the opening of school this fall.

#### **# 12 144th Ave NE & NE 200th St Pipe Upsize Project**

- Project Location: The project is located along 144<sup>th</sup> Ave NE and NE 200<sup>th</sup> and within a private easement east of 144<sup>th</sup> Ave NE within the City of Woodinville.
- Project Description: This project will upsize and replace approximately 3700 feet of existing water mains with 12-in diameter ductile iron (DI) pipe along 200<sup>th</sup> St, 144<sup>th</sup> Ave NE, and through an easement east of 144<sup>th</sup> Ave NE. The purpose of this project is to increase fire flows in the area.
- Project Status: The construction for this project is complete and staff are currently working on close-out.

#### **#13 Hollywood Reservoir Painting Project**

- Project Location: Brookside Reservoir, 15546 168<sup>th</sup> Ave NE, Woodinville
- Project Description: A Tank Industry Consultants evaluation of the Hollywood reservoir prepared in 2006, identified many maintenance related activities and upgrades required. Painting the interior and exterior of the reservoir along with other health and safety related items are to be addressed. District Staff have scheduled the Hollywood Reservoir to be the next in line for upgrades after the Brookside Reservoir.
- Project Status: This project has been completed. Staff are currently working on close-out.