

PUBLIC WORKS/PARKS COMMITTEE MEETING
Monday, October 1, 2018 – 5:00pm
Wastewater Treatment Plant – 26729 98th Drive NW
MINUTES

Attendance:

Councilmembers: Rob Johnson, Judy Williams
City Staff: Kevin Hushagen, Lisa Sokolik
Other: Kevin Lavering - SnoPUD, Tom Hovde - SnoPUD, Steve Shepro - PTAC

The full meeting agenda packet with detailed information can be found on the City's website at www.ci.stanwood.wa.us

1. PUD Transmission Lines on Lover's Lane – Kevin Lavering, PUD

Kevin Lavering and Tom Hovde from Snohomish PUD attended the Public Works Committee meeting to present the PUD proposed layout of the new transmission lines on Lover's Lane along the edge of Heritage Park and on SR532 along the edge of Ovenell Park, and to answer any questions; materials handed out are attached to these minutes.

Key points

- Safety: Future lines cannot cross over existing lines. The proposed future lines have to stay on the south side of the existing lines which place the poles on the inside edge of Heritage Park.
- Placement of poles:
PUD can adjust the placement of the poles, e.g. to accommodate for future park entrance shown on the park's master plan.
- Pole type: Will have 3 arms on one side facing north.
- Trees: The row of Arborvitaes along Lover's Lane will be removed. The City can select replacement trees from the PUD catalog, which PUD will plant. The City would like the option to take a tree voucher to use in the future for trees that can be planted in other locations in the park, the city will be responsible for planting trees if using a voucher.
- Design: PUD would like to get the design completed and get pole placement confirmed.
- Timeline: Lover's Lane future line – 2021
Lover's Lane existing line rebuild – 2023
Existing line from North Stanwood Substation along Pioneer Hwy through Silvana – 2021-2022

Committee's Questions *(Mr. Levering emailed answers)*

- Can PUD provide the expected growth capacity that the new transmission lines will create, in terms of houses?
- Does PUD build towers to blend in with the terrain?
- *PUD has standard colors; brown, gray, and green; see attachment - Pole Color Options.*
- What is the distance between poles at Heritage Park?
- *Distance between the poles that are on the opposite ends of the tree'd area next to Lover's Lane (north of Heritage Park parking lot) = appx 430'*
- What is the depth of Transmission Poles?
- *Depth = 14'*
- Stanwood PUD pole yard, can City work with PUD to buy the pole yard for Viking Way?

2. Capital Improvement Plan (CIP)

The Finance Director made a few minor changes to the CIP, so staff has asked the Committee to review the changes before it is taken to full council on October 11th. The Committee did not have any comments or concerns regarding the changes.

3. Disc Golf Course Matching Funds

The Committee supports the idea of adding an additional 9-holes to the disc golf course at Church Creek Park. They directed staff to talk to the Finance Director regarding how to manage the match.

DISCUSSION ITEMS

• Water and sewer availability for BLU Development

Staff discussed with the Committee that Certificates of Water and Sewer Availability are needed before the proposed subdivision for 90 single-family lots, 12 duplex units, and 36 townhouse units at 7510 284th Street NW can be approved. An engineering firm will need to be assigned the task of reviewing and analyzing the City's water and sewer systems to determine available capacity to provide water and sewer service to the proposed subdivision and identify system improvements required to provide service.

With RH2's knowledge of the City's water and sewer systems, staff has asked the committee to recommend to council to hire RH2 to provide this service.

The cost for a Certificate of Water and Sewer availability, no matter the size of the plat, is between \$8,500 - \$9,000. The Committee asked staff to research:

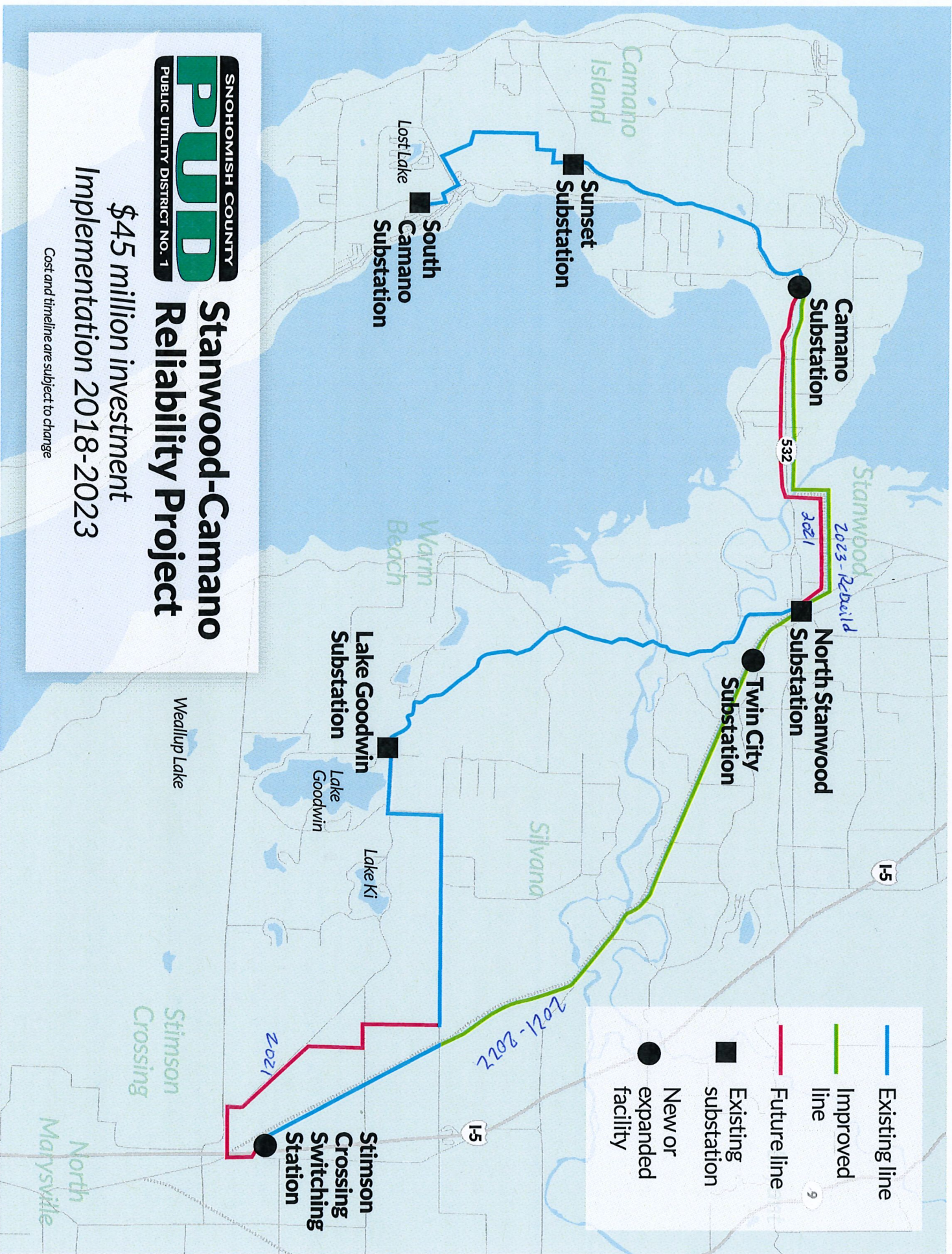
1. Would there be a cost savings if the city purchased the modeling software and performed the work in house?
2. How do other cities get their certificates; hire engineering firms or in-house?
3. How do other cities recoup this cost from the developer; percent, flat rate, per unit?

The Committee also discussed the need for another water reservoir for future growth. If engineers suggest an elevated tank vs a ground level tank, Councilmember Rob Johnson would like to see information regarding seismic activity to be assured that the tank would be structurally sound to withstand an earthquake and that the placement of the new elevated tank would not fall on top of the existing reservoirs.

- **SCADA contract with QCC**

Tetra Tech is one of the City's on-call engineering firms. The City issued Tetra Tech a task order to provide engineering and programming services to upgrade the Wastewater Treatment Plant's SCADA system. Due to some staffing issues, Tetra Tech did not have the proper staff to perform the task. Staff then used the MRSC Roster and decided that Quality Controls Corporation (QCC) had the best qualifications.

The Committee's recommendation is to bring to council on October 11, 2018 with the recommendation to authorize the mayor to enter into an agreement with QCC for the SCADA Equipment Upgrade project.



SNOHOMISH COUNTY
PUD
PUBLIC UTILITY DISTRICT NO. 1

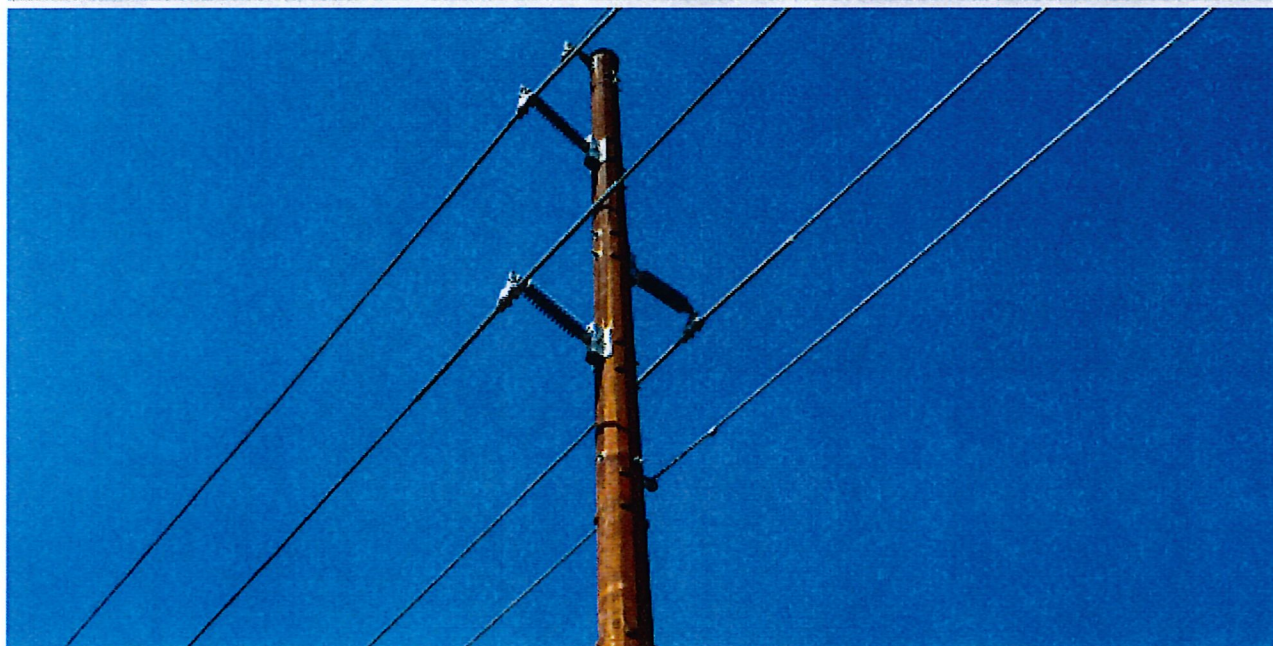
Stanwood-Camano Reliability Project

\$45 million investment
Implementation 2018-2023

Cost and timeline are subject to change

Pole Color Options

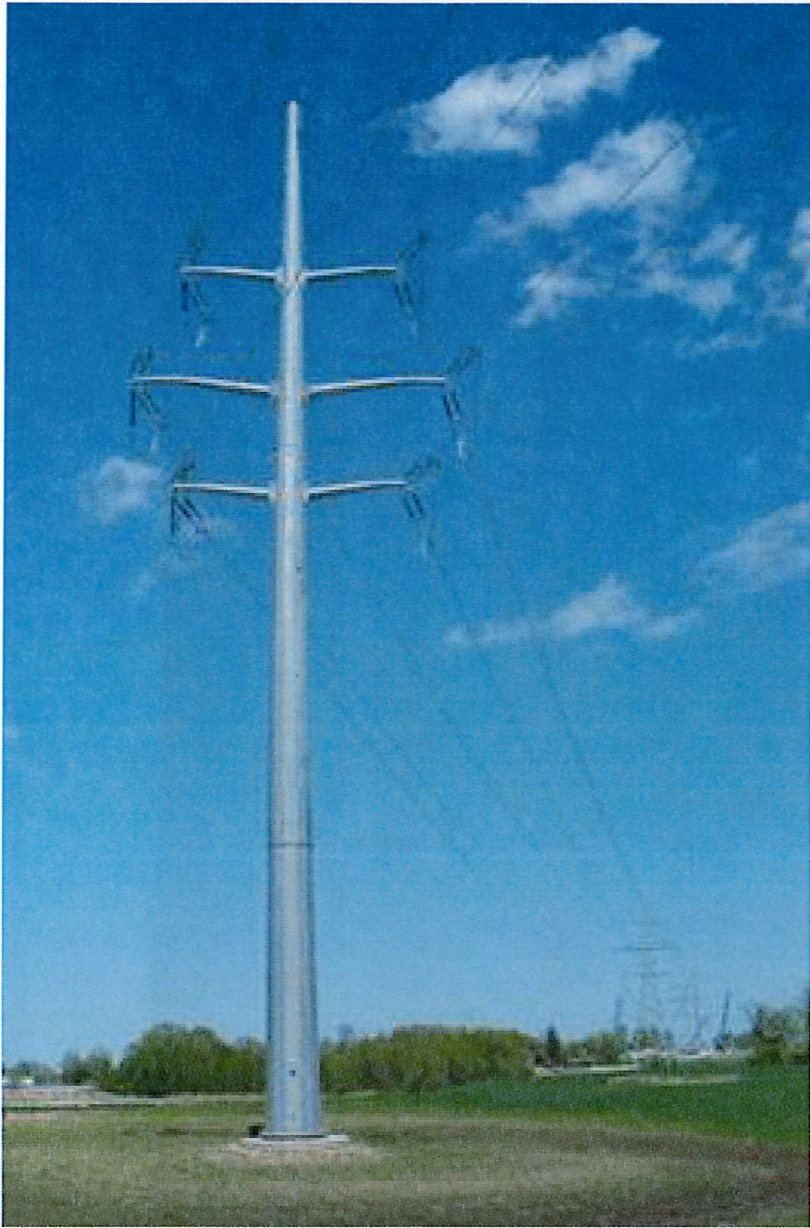
Brown



Gray

Photo Color Options

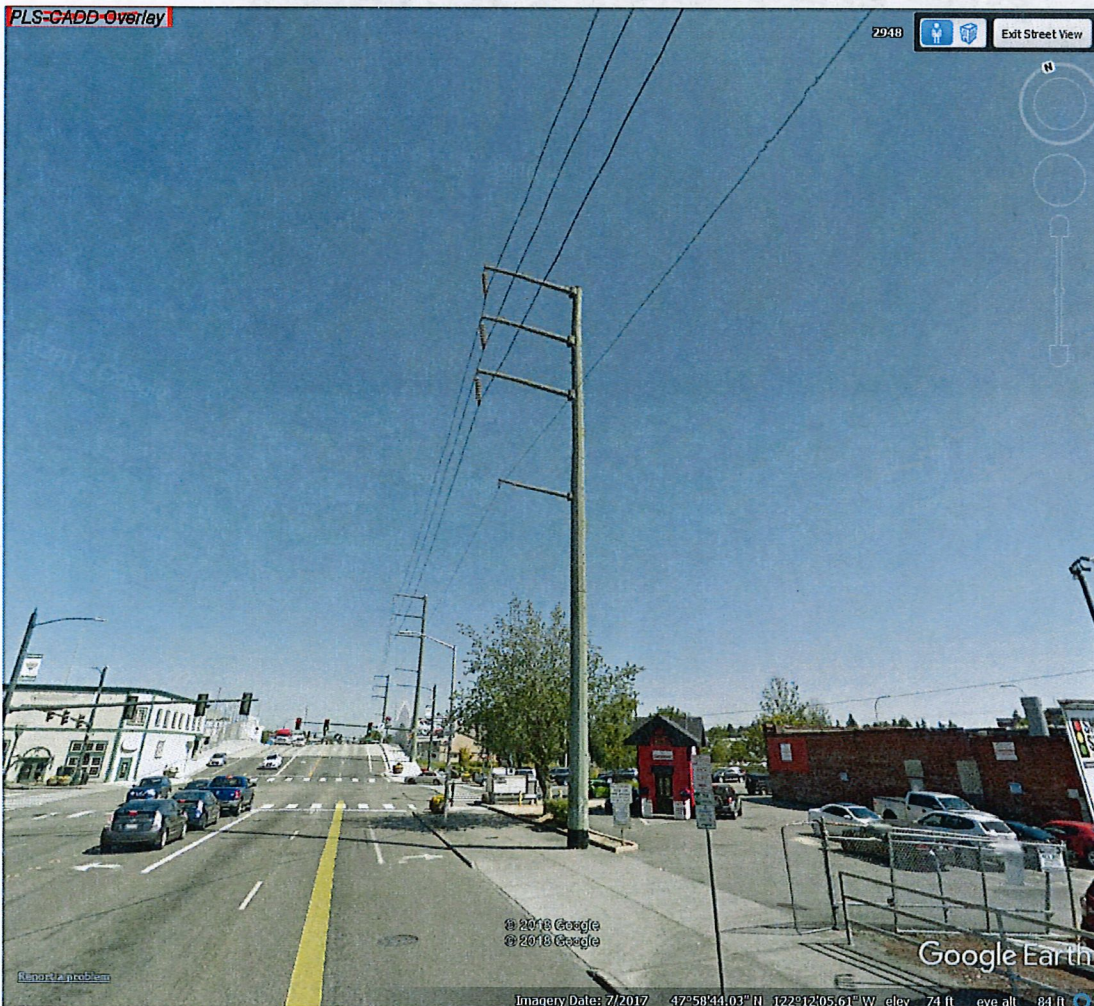
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Gray

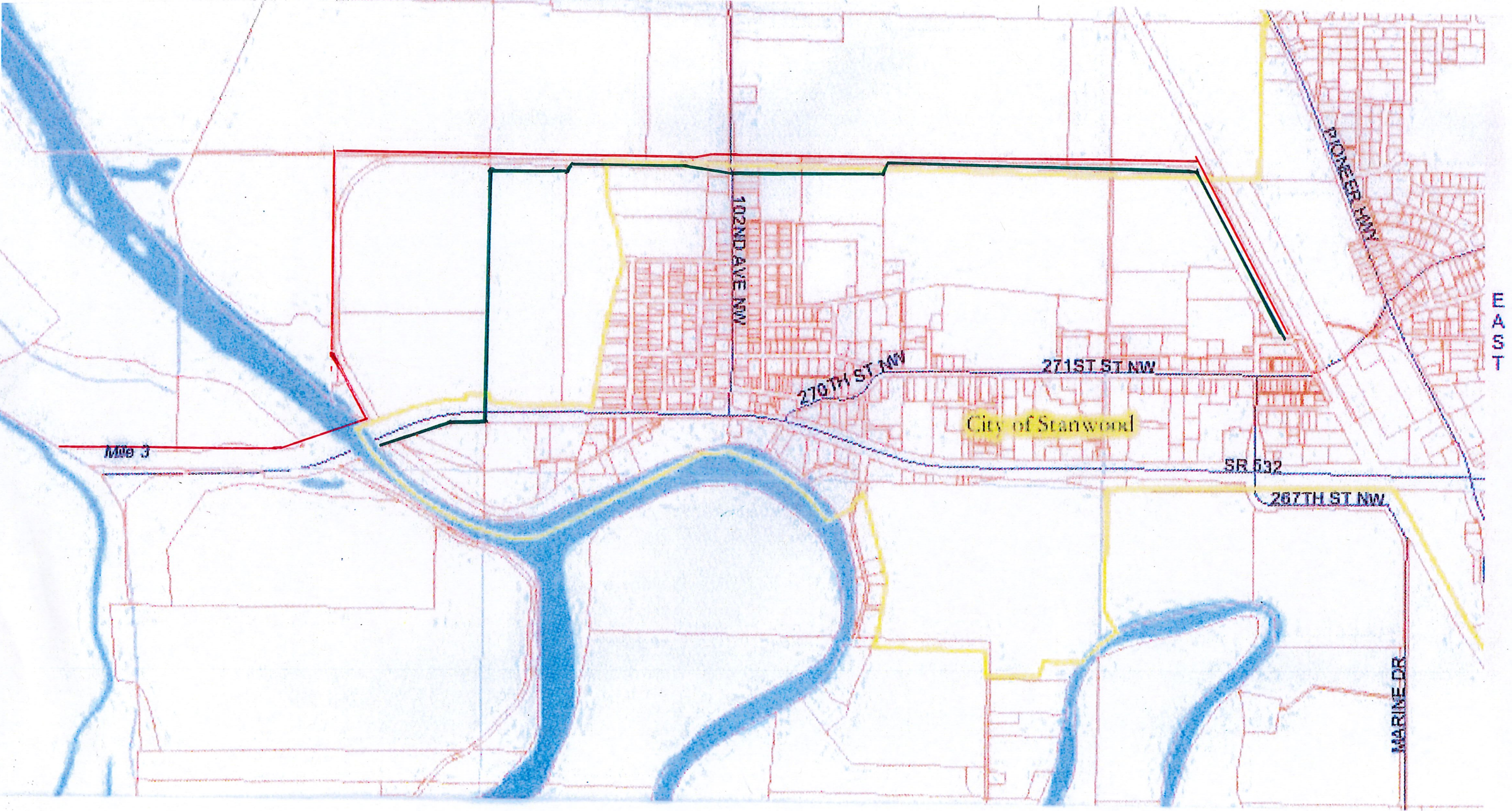


Green



LEGEND:

- CITY LIMIT
- NEW 115KV LINE
- EXISTING LINE TO BE REBUILT



LOVERS ROAD 276TH ST

TRANSMISSION LINE

8/2

LG-NCI 8/1

LG-NCI 7/20

LG-NCI 7/19

LG-NCI

RIGHT-OF-WAY

HERITAGE PARK





LG-NCI 8/5

LG-NCI 8/4

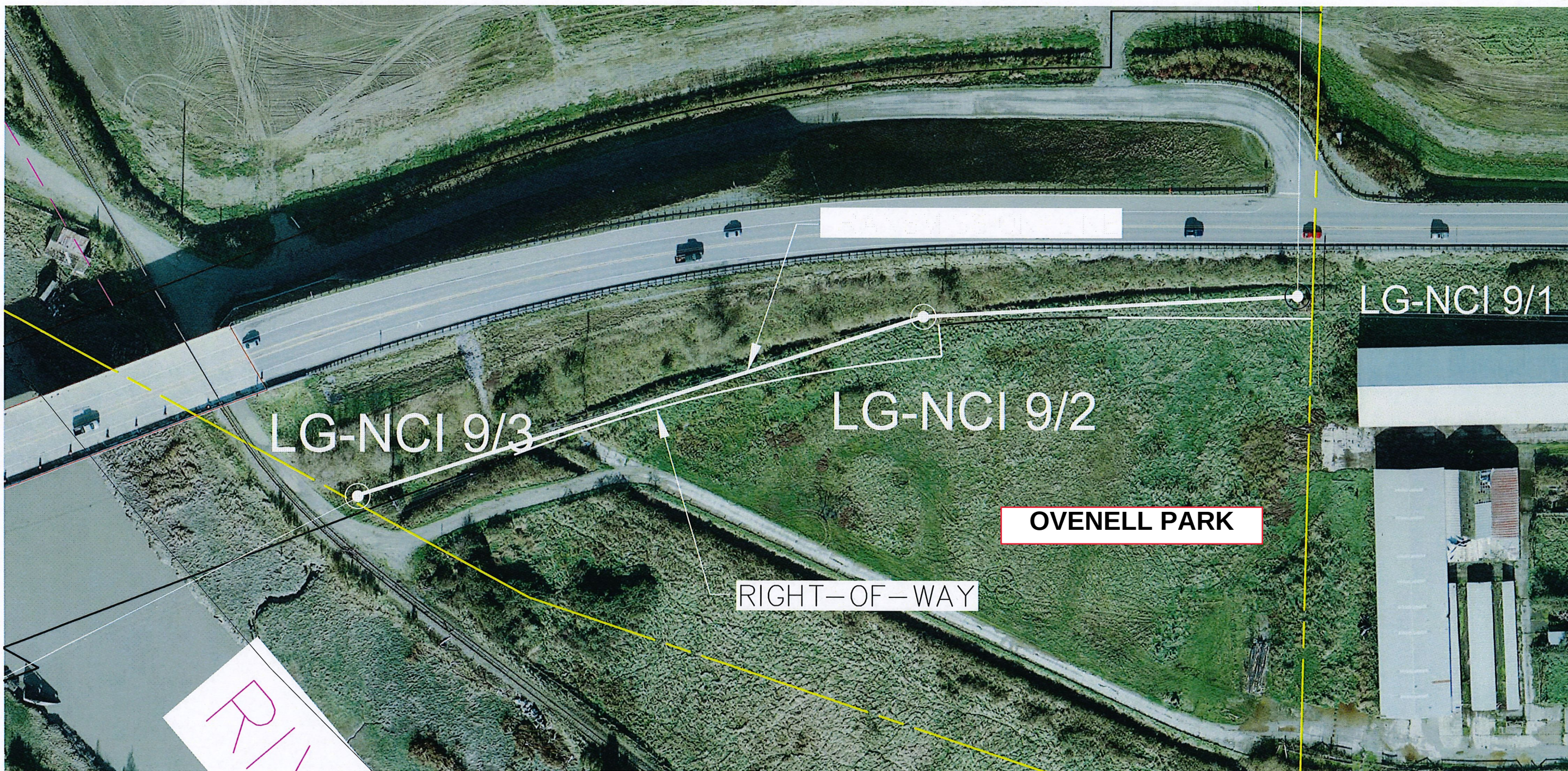
LG-NCI 8/3

LG-NCI 8/2

RIGHT-OF-WAY

HERITAGE PARK

RIG



LG-NCI 9/3

LG-NCI 9/2

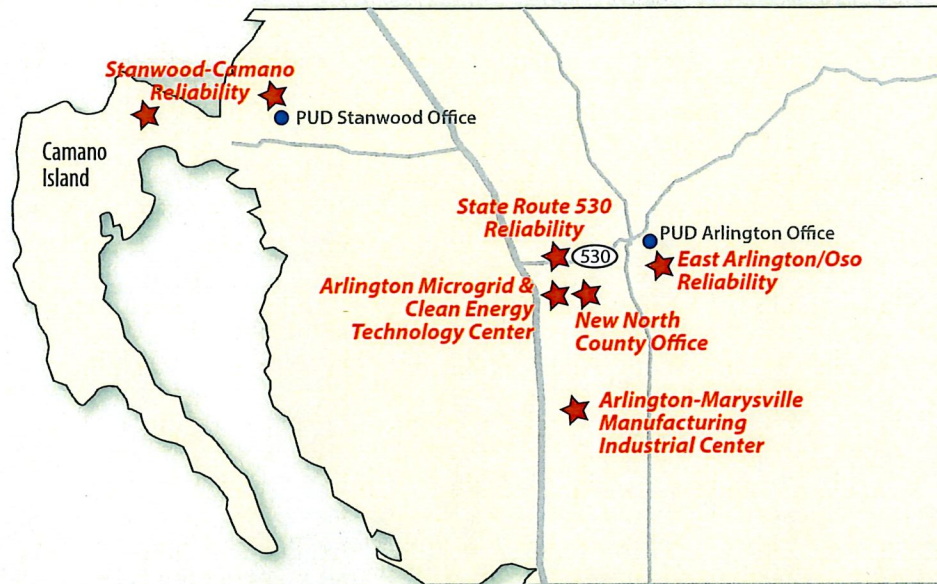
LG-NCI 9/1

OVENELL PARK

RIGHT-OF-WAY

R/W

Snohomish County PUD has initiated a series of improvement projects in North Snohomish County to maintain reliability, address growth needs and support economic development. The projects will require investments of more than \$100 million through 2022 and beyond.



Stanwood-Camano Reliability Project – A series of projects will improve reliability in the Stanwood-Camano area, including construction of the new Twin City Substation, a second transmission line to Camano Island, distribution line upgrades and equipment replacements at two existing substations.

East Arlington/Oso Reliability Project – Improvements will upgrade aging high-voltage lines and substations in these communities, including construction of the new Eagle Creek Substation. The work will improve reliability, provide operational flexibility and standardize high-voltage-level systems.

State Route 530 Reliability Improvements – As part of a WSDOT pole relocation project along 12 miles of state highway, the PUD will upgrade poles, wires, switches and other equipment to current utility standards. The project will meet WSDOT safety requirements and enhance reliability in the area.

Support of Arlington-Marysville Manufacturing Industrial Center (AMMIC) – The PUD will work closely with the Arlington and Marysville communities to support a business area aimed at bringing more manufacturing businesses and jobs to the area. Future electrical system improvements will ensure the utility addresses growth and reliability needs as the business corridor develops over time.

Arlington Microgrid and Clean Energy Technology Center – This facility will integrate multiple energy technologies, including energy storage combined with a solar panel array and an electric vehicle-to-grid system that allows both charging/discharging into the grid. It will create a microgrid that can be “islanded” and run independently from the electrical grid. The site will provide educational opportunities for utility staff, the business sector, researchers and local agencies.

North County Office – A new Arlington local office will replace aging facilities that don’t meet the needs of a growing customer base. The PUD is assessing its local offices to create efficiencies in utility operations and ensure quality service to residents and businesses throughout its service territory.

PROJECT	DETAILS	BENEFITS	TIMELINE
STANWOOD/ CAMANO RELIABILITY <i>System Improvements in Stanwood/Camano area</i>	▶ New, second 115 kV transmission line to Camano ▶ Upgrades to existing 115 kV line to Camano ▶ Construction of new Twin City Substation ▶ Upgrades to North Camano Substation ▶ Related distribution system upgrades	▶ Service reliability – these improvements provide the PUD more options to re-route customers to different substations and provide redundancy when needed during outages and maintenance ▶ Modernization of substations and high-voltage lines	Estimated 2018-2022
EAST ARLINGTON/ OSO RELIABILITY <i>Northeast County System Improvements</i>	▶ Construction of new Eagle Creek Substation and upgrades to the East Arlington Substation ▶ Rebuild of the East Arlington Substation with a high reliability six breaker ring bus ▶ Upgrade legacy 55kV lines to 115kV lines between the Oso and East Arlington Substations including fiber optic cable ▶ Distribution Automation upgrades as part of the PUD's smart grid modernization	▶ Service reliability – these improvements provide the PUD more options to re-route customers to different substations when needed during outages and maintenance ▶ Modernization of substations and high-voltage lines	March 2017 – Summer 2019
ARLINGTON/ MARYSVILLE UPGRADES - Stimson Crossing Switching Station Expansion - Stimson-Stanwood 115 kV Line Rebuild	▶ Expansion of switching station to accommodate new line to Lake Goodwin and feed distribution transformer ▶ An aging Stimson-Stanwood line will be rebuilt to provide more capacity and accommodate improvements in the Stanwood-Camano area.	▶ Service reliability – these improvements provide the PUD more options to re-route customers to different substations and provide redundancy when needed during outages and maintenance ▶ Modernization of aging substations and high-voltage lines	Substation: 2020-2021 115 kV Line: 2021-2022
SR 530 RELIABILITY	▶ Relocate poles, lines and equipment along 12 miles of roadway	▶ Modernizes equipment, improves reliability and meets WSDOT safety needs	2019
SMOKEY POINT SUBSTATION REBUILD	▶ New switchgear and transformer equipment, plus additional transmission and distribution lines	▶ Enhanced reliability and in support of the Arlington-Marysville Manufacturing Industrial Center (AMMIC) and other customers	2017-2018
ARLINGTON MICROGRID AND CLEAN ENERGY TECHNOLOGY CENTER	▶ 1 MW/1 MWh-Battery Energy Storage ▶ 500 Kilowatt Solar Array with Inverters ▶ Electric vehicle-to-grid system ▶ Microgrid control system and building energy management system ▶ Clean Energy Technology Center	▶ Grid resiliency ▶ Disaster recovery and local office backup ▶ Renewable energy integration ▶ Grid support & ancillary services ▶ Vehicle-to-grid integration	Design: 2017-18 Construction: 2018 -2020 Startup: First Quarter 2020