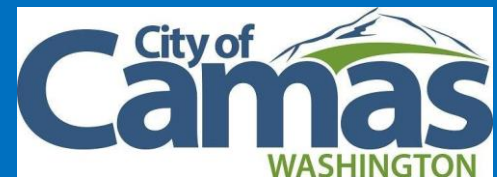


North Shore  
Sewer Transmission System Update  
(North Shore-STS)

City Council Workshop

1 May 2, 2016



# Presentation Summary

- Background/Timelines
- Sewer Transmission Routing
- System Highlights
- School District Waterline Project
- Preliminary Project Cost Estimate
- Next Steps

## Project Timelines:

- July 2014 - General Sewer Plan Amendment to reflect North Shore Sewer System (Completed October, 2015)
- September 2014 – North Shore Sewer System Route Analysis (Completed June, 2015)
- November 2015 – Green Mtn. PRD Development Agreement
- October 2015 – Professional Services Agreement for 30% Engineering Design
- April 2016 – 30% Design Completed

## Funding Timeline:

- September 2015 – \$22M Revenue Bond Sale (\$17M for Sewer Design/Construction)
- February 2016 – School Bond Levy Passes

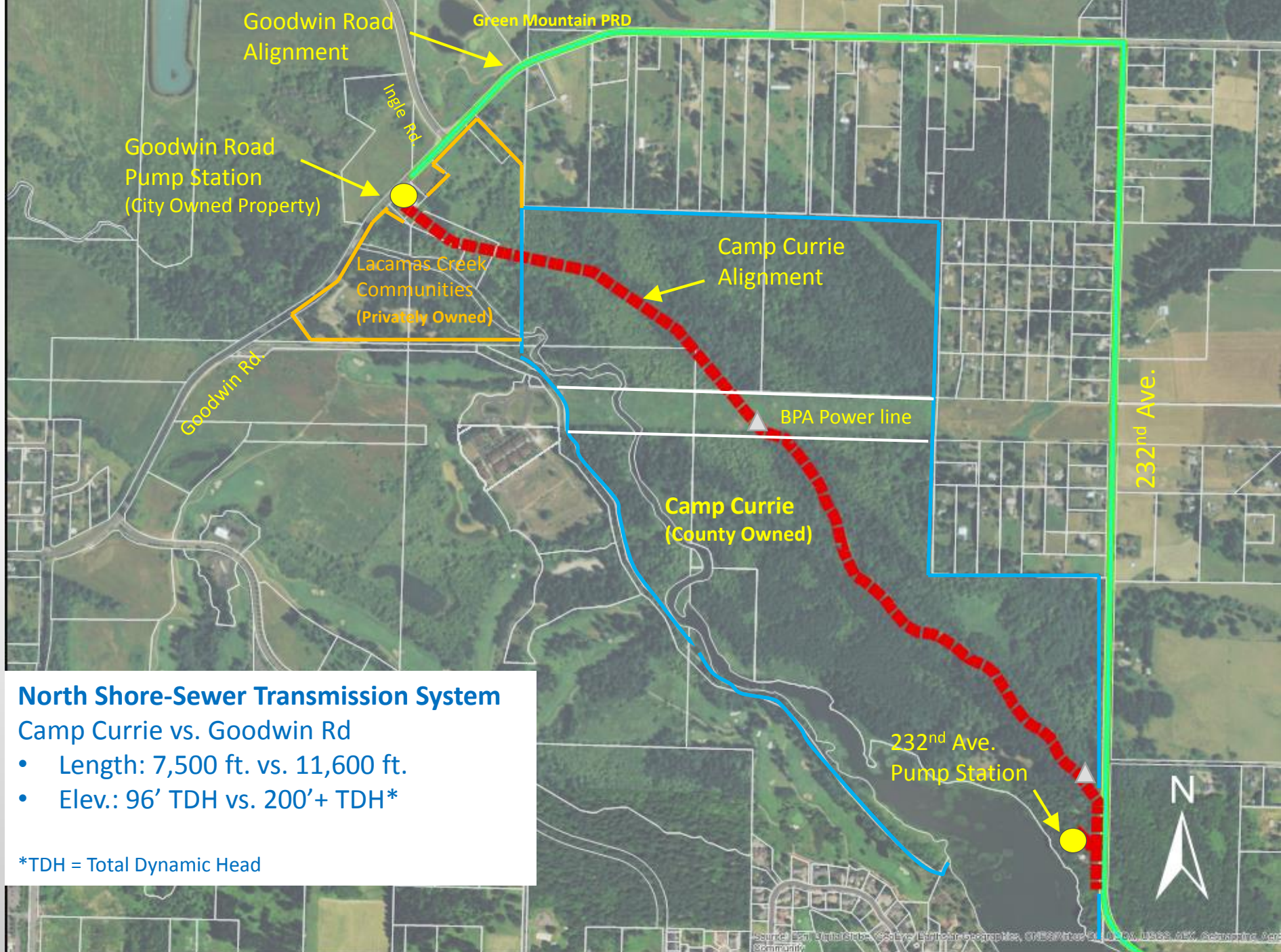


## North Shore-Sewer Transmission System

### System Highlights:

- 3 pump stations
- Pedestrian bridge at Lacamas Lake/Round Lake channel
- Total length of ~4.5 miles
- Dual force mains between stations
- Connection to existing system at 19<sup>th</sup> and Franklin

Connect to existing gravity sewer system (System being upsized with Franklin Street Project)



### North Shore-Sewer Transmission System

#### Camp Currie vs. Goodwin Rd

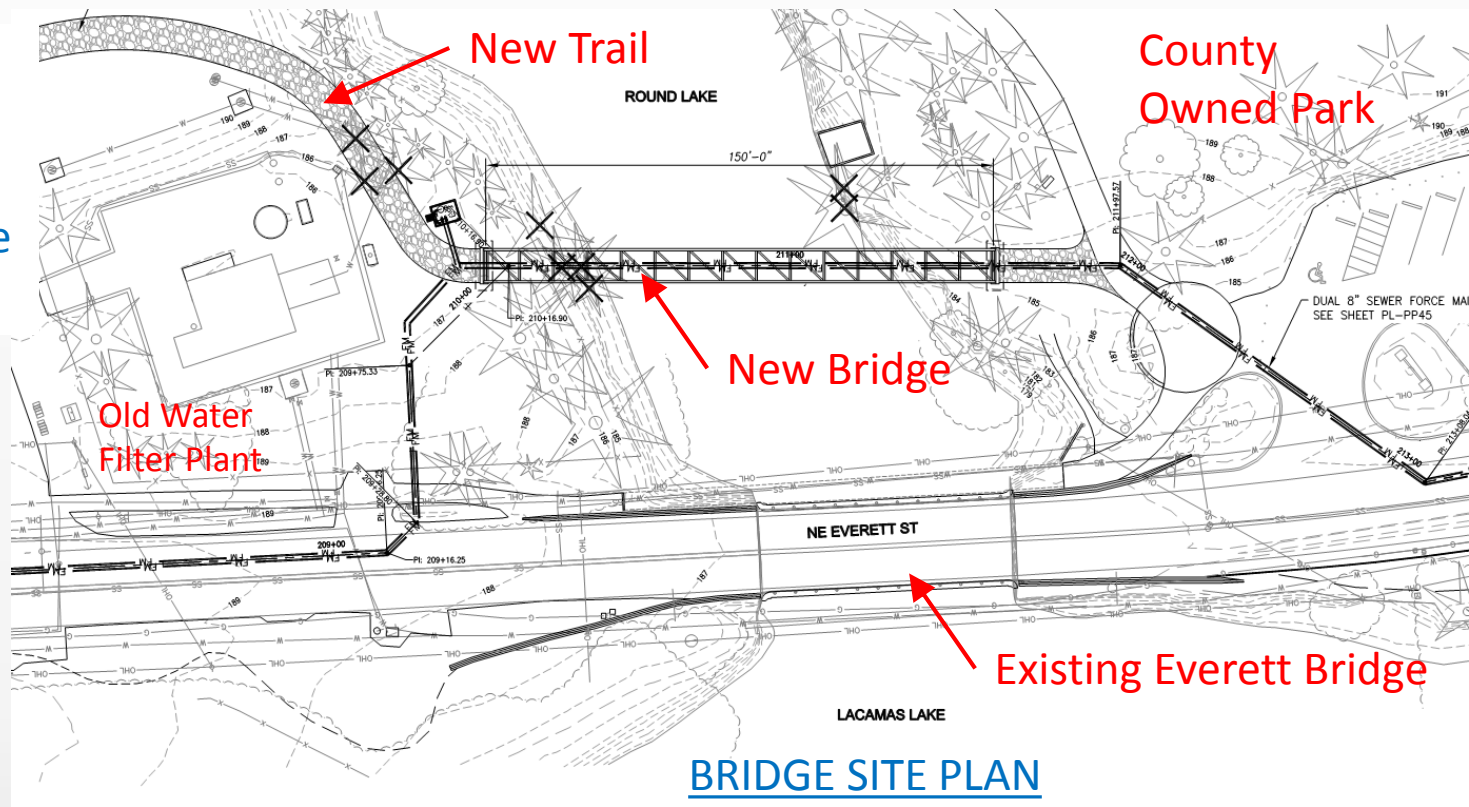
- Length: 7,500 ft. vs. 11,600 ft.
- Elev.: 96' TDH vs. 200'+ TDH\*

\*TDH = Total Dynamic Head

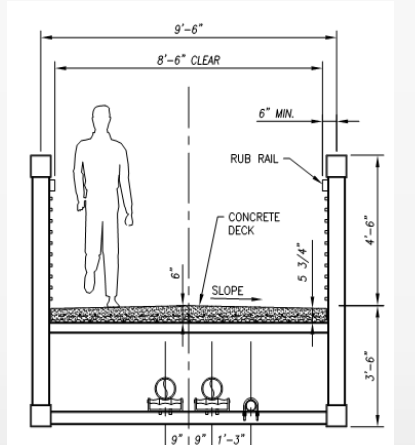
# NUGA-STS

## Pedestrian Bridge:

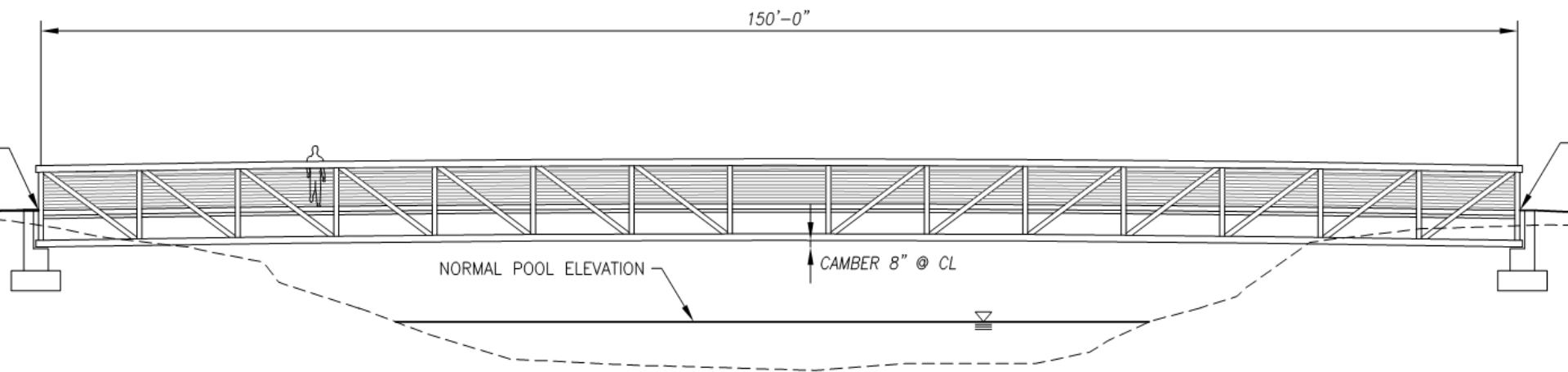
- 150' long
- Room for future utilities



BRIDGE SITE PLAN



BRIDGE CROSS SECTION



BRIDGE PROFILE

## North Shore Permitting

- MOU w/County to allow Camas as Lead for permitting (local)
  - Site Plan Review
  - Critical Areas
  - Shoreline
  - Clearing and Grading
- Section 106 Cultural
- USFW ESA
- USACE Section 404
- Ecology Section 401
- Ecology NPDES
- WDFW HPA
- SWCCA Air Permit



**NUGA  
Sewer**



Camp Currie

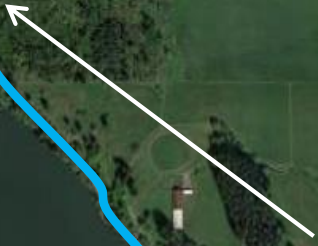
232nd Pump Station



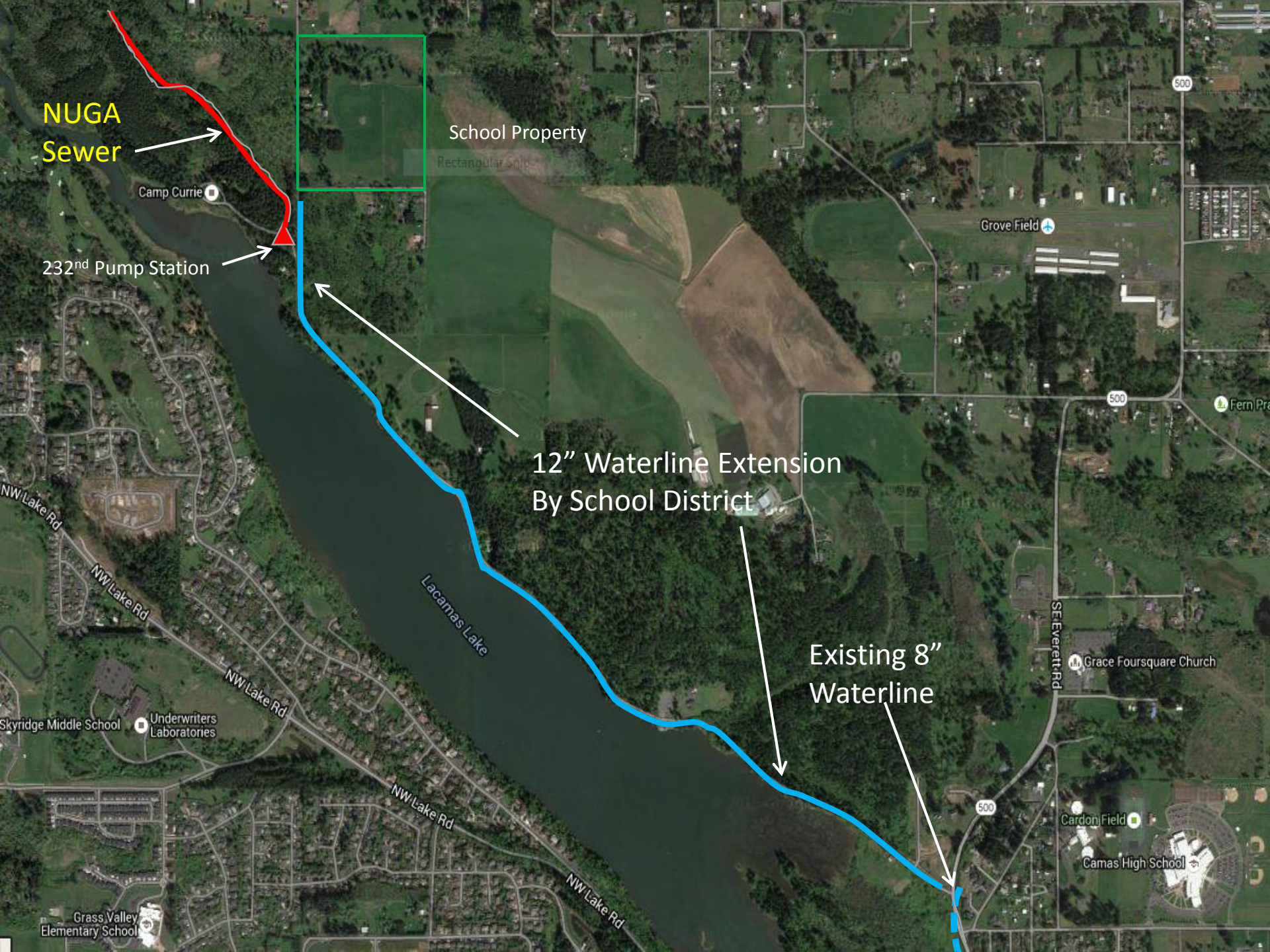
School Property

Rectangular Sols

12" Waterline Extension  
By School District



Existing 8"  
Waterline





# School District/City of Camas Interlocal Agreement Framework

- CSD has to build waterline to Lacamas School site
- City and CSD joint water/sewer project
- City would administer design and construction of both projects
- CSD would be included in all discussions during design and construction
- CSD reimburses the City for all waterline costs
- CSD will pay a proportionate share of preliminary design work to date

## **Benefits:**

- Collaborative effort between the City, District and Consultant
- Simultaneous construction of both projects
- Cost Savings in administration, permitting and construction

# Next Steps

- Finalize Interlocal Agreement with School District – May 2016
- Final Design and Construction Estimates to Council – May 2016
- Approve 100% Engineering Design Contract – May 2016
- Secure easements with private/public property owners - 2016
- 100% Design completed February, 2017
- Construction completed Summer 2018

We are still On Track!