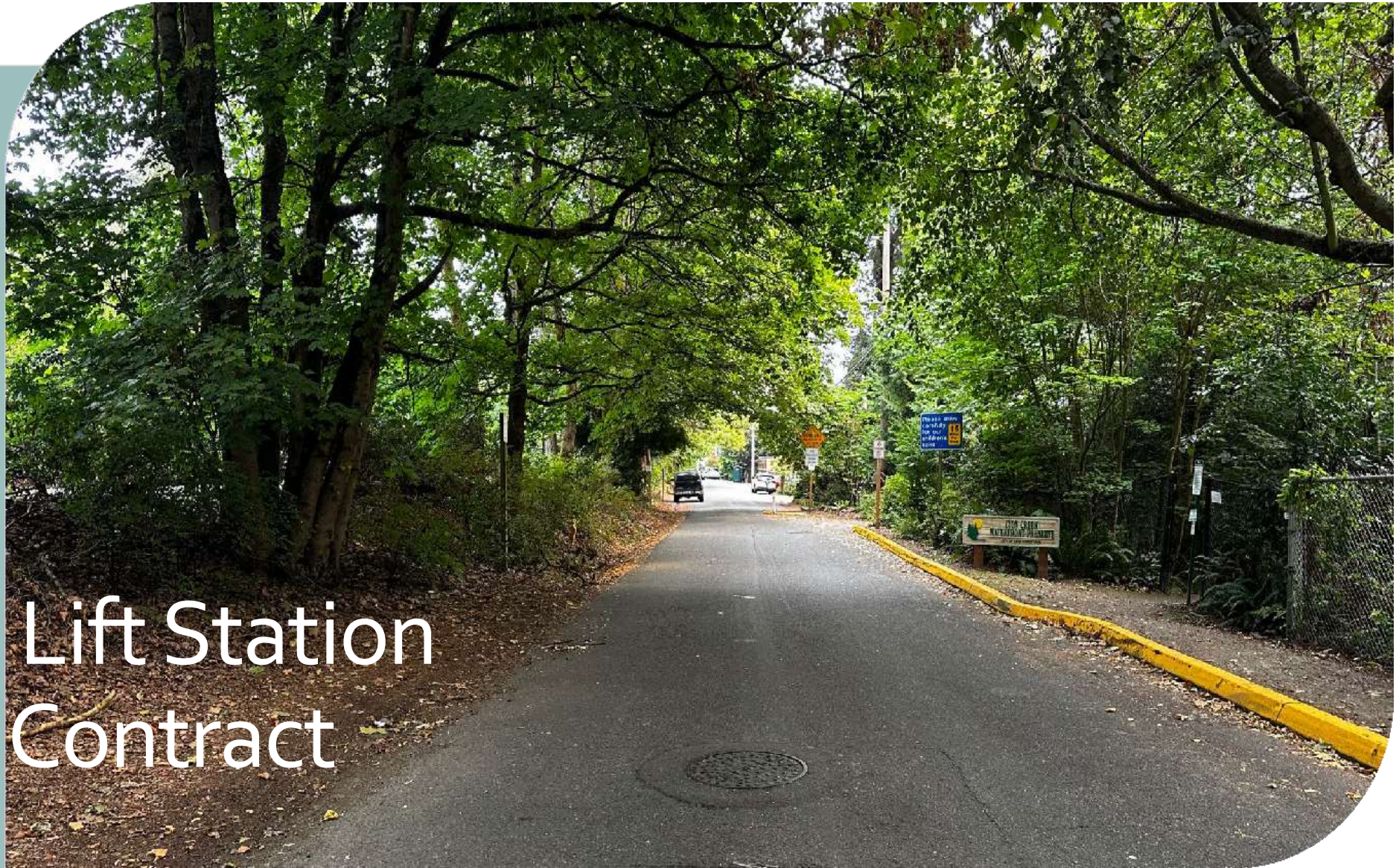
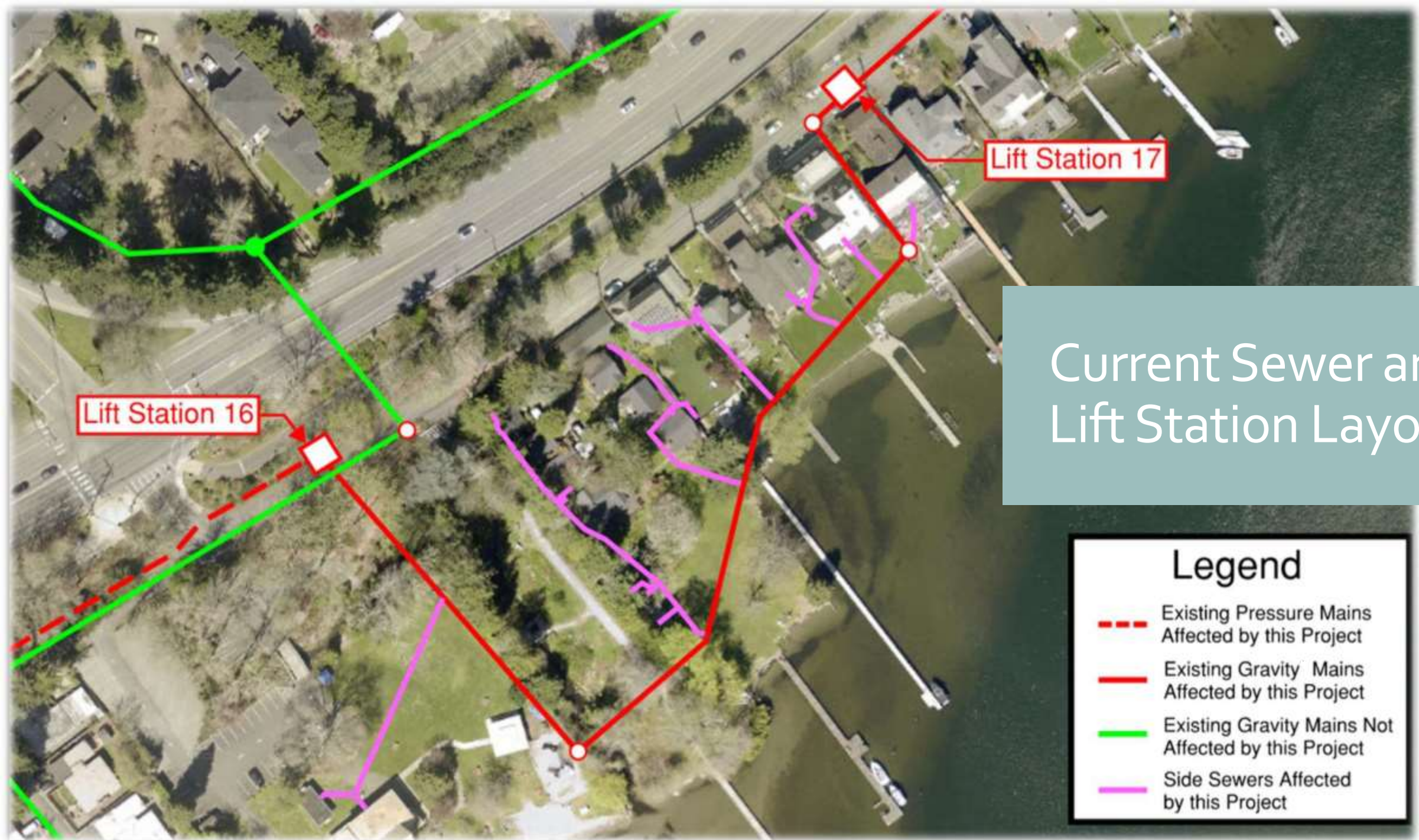


Beach Drive Lift Station
30% Design Contract



Professional Services Agreement with Consor



Lift Station 17

Lift Station 16

Current Sewer and Lift Station Layout

Legend

- Existing Pressure Mains Affected by this Project
- Existing Gravity Mains Affected by this Project
- Existing Gravity Mains Not Affected by this Project
- Side Sewers Affected by this Project



Conсор completed an Options Analysis for the City earlier this year

From that, the City's preferred option was selected to move forward

Option 1A is shown here

Conceptual Lift Station Site Plan



Conсор's 30% design scope of services includes:

- Project management
- Preliminary design
- Structural engineering
- Electrical engineering
- Permitting
- Critical areas
- Geotechnical
- Cultural resources



Project Costs

Design:

Options Analysis	\$28,708
30% Design	\$225,074
100% Design	TBD

Construction:

AACE Class 5 OPPC \$2,574,000
(as show on the right)

Item	Description	Qty	Unit	Unit Cost	Total
1	Mobilization and Demobilization	1	LS	\$111,000	\$111,000
2	Traffic Control	1	LS	\$20,000	\$20,000
3	TESC	1	LS	\$11,000	\$11,000
4	Dewatering	1	LS	\$30,000	\$30,000
5	Sheeting, Shoring, and Bracing	1	LS	\$30,000	\$30,000
6	Dry Well/Wet Well Structure	1	LS	\$150,000	\$150,000
7	Manhole	1	LS	\$10,000	\$10,000
8	Pumps	2	EA	\$20,000	\$40,000
9	Valves and Piping	1	LS	\$15,000	\$15,000
10	Generator	1	LS	\$20,000	\$20,000
11	Electrical, Instrumentation, and Controls	1	LS	\$500,000	\$500,000
12	Clearing and Grubbing	1	LS	\$10,000	\$10,000
13	Temporary Bypass Pumping	1	LS	\$35,000	\$35,000
14	Site Restoration	1	LS	\$25,000	\$25,000
15	4" Diameter Force Main Sewer	40	LF	\$100	\$4,000
16	8" Diameter Gravity Sewer	410	LF	\$300	\$123,000
17	Sewer Laterals	7	EA	\$10,000	\$70,000
18	Asphalt Repair	1	LS	\$15,000	\$15,000
19	Additional Dry Well Components (Ventilation, Heating)	1	LS	\$5,000	\$5,000
	<i>Subtotal</i>				\$1,224,000
	Engineering (25%), Construction Management (25%), and Administrative Costs (10%)			60%	\$734,400
	Contingency			40%	\$489,600
	Sales Tax			10.3%	\$126,072
	Total Project Cost				\$2,574,000
	AACE Class 5 OPPC Upper Limit			+100%	\$5,148,000
	AACE Class 5 OPPC Lower Limit			-50%	\$1,287,000