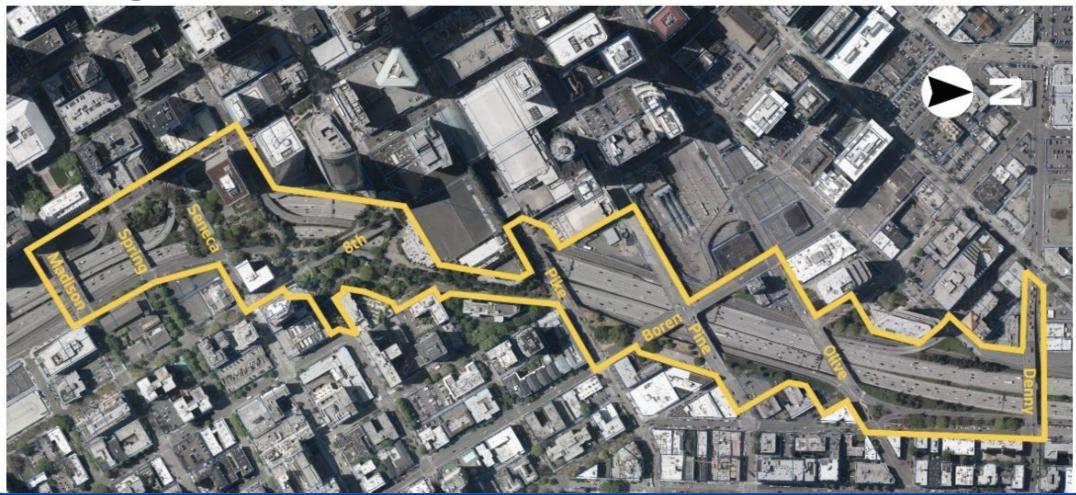


Agenda

- -Background
- -Overview of study and key findings
- -Technical Analysis
- -Next Steps



Background











This is a very preliminary study



Lidding in this area is possible, but not easy



The more you want to hold up on a lid, the more expensive it is to build

On- and off-ramps are particularly challenging



Vehicle parking and slope issues will require creative solutions

This is a very large and expensive undertaking, requiring a variety of funding and financing sources

How you do it will depend on what you're doing

This area of the city has significant needs beyond re-linking neighborhoods and mitigating the environmental impacts of I-5

There are significant benefits that could flow from this investment

While we analyzed the full stretch of this study area as a single lid project, it could be approached differently

This will require significant and ongoing partnership

This is a first step



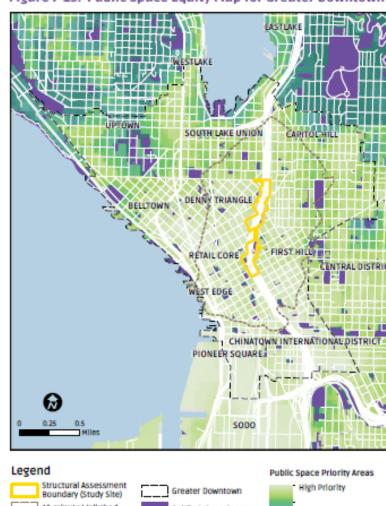
Technical Analysis



Figure 7-15. Change in Displacement Risk Index in the Study Site, 2010-2017

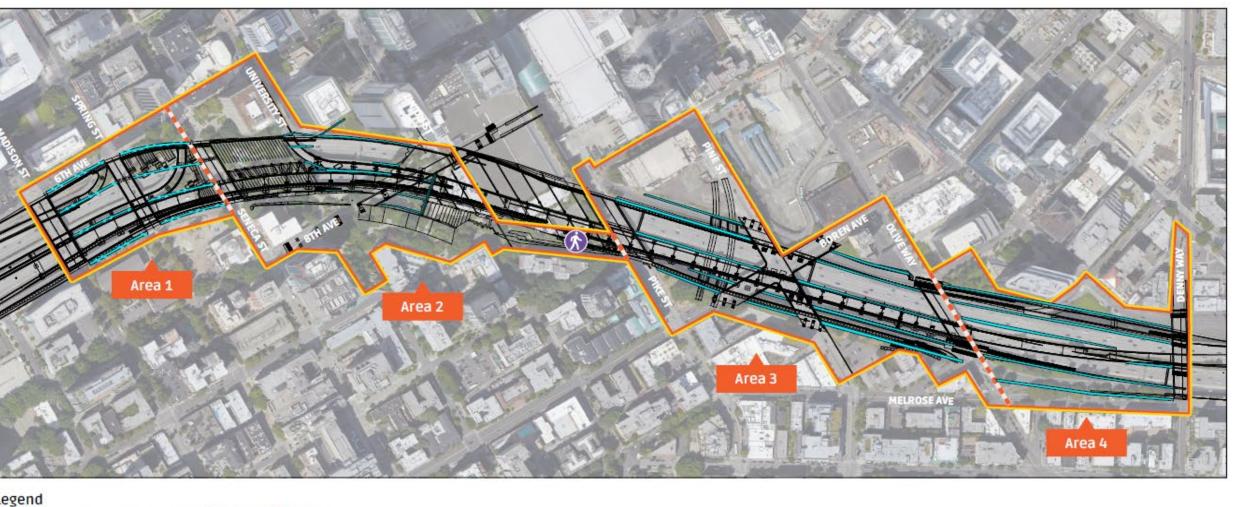


Figure 7-19. Public Space Equity Map for Greater Downtown





igure 8-4. New Lid Structure Potential Pier Locations for a Robust Lid Project





Area of Analysis

Area Limit



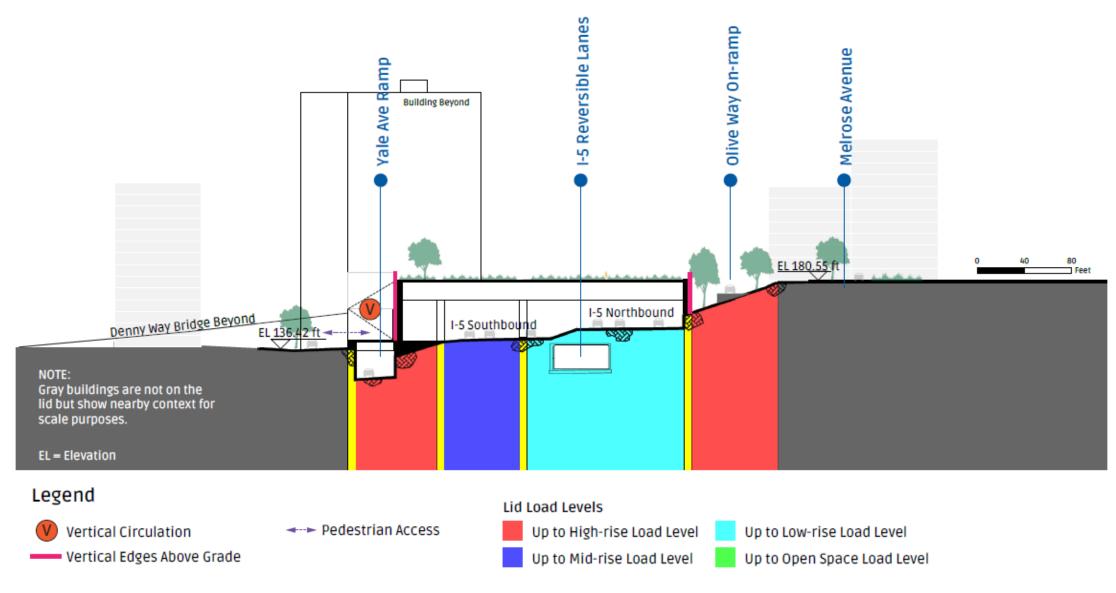
Potential Pier Location

0 300 600 Feet

Figure 8-7. Highest Load Levels for Maximum Developable Lid-Area Potential for the Robust Lid Project

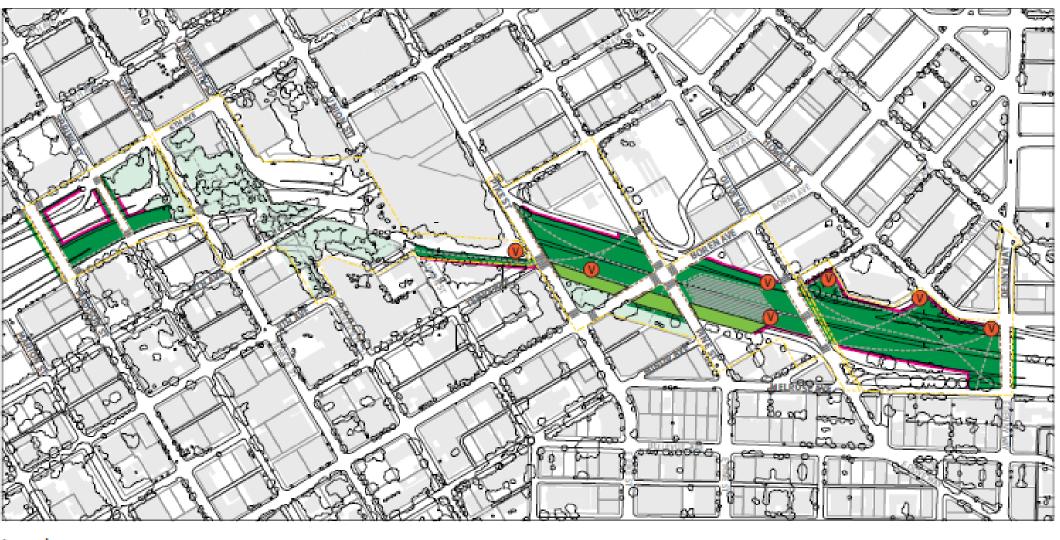


Figure 8-9. Schematic Cross-Section of a Low-Load Lid over I-5 (Area 4)



Pink vertical lines represent vertical edges of the lid that would be above-grade and experienced as "balconies" from the lid level. This is a representative cross-section of a conceptual open-space lid in Area 4, between Denny Way and Olive Way, where the most notable grade separation would be experienced.

Figure 9-8. Test Case 1 - The Park Lid



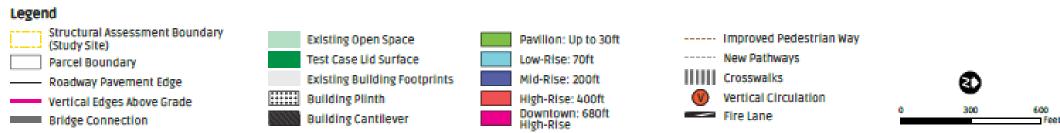
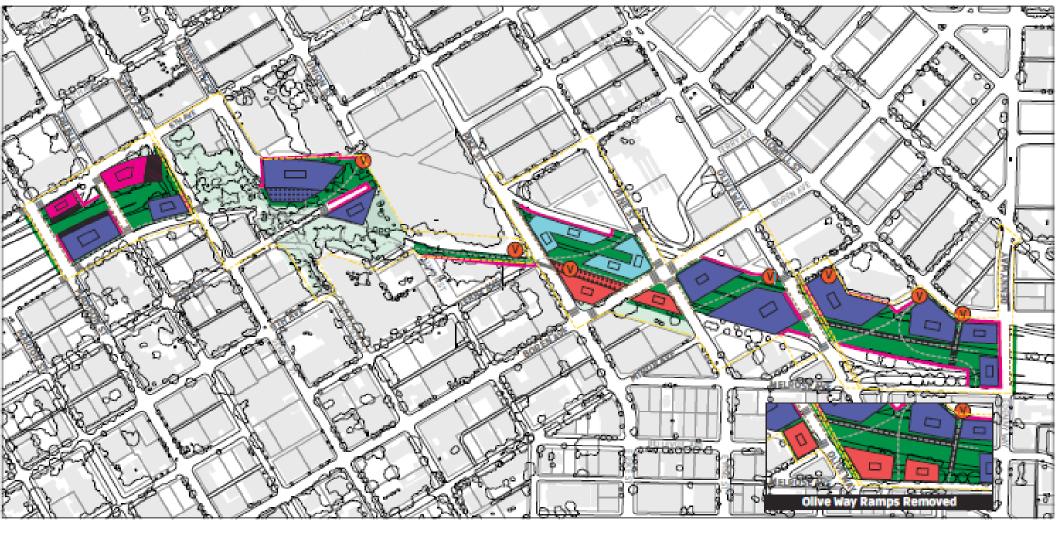


Figure 9-9. Test Case 2 – Maximum Private Investment



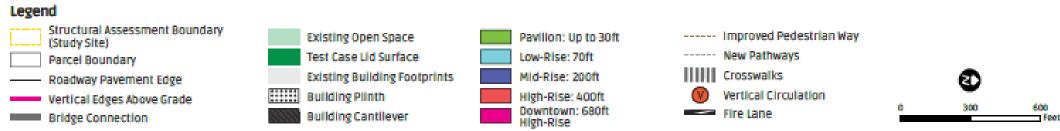


Figure 9-10. Test Case 3 – Mid-Density Hybrid

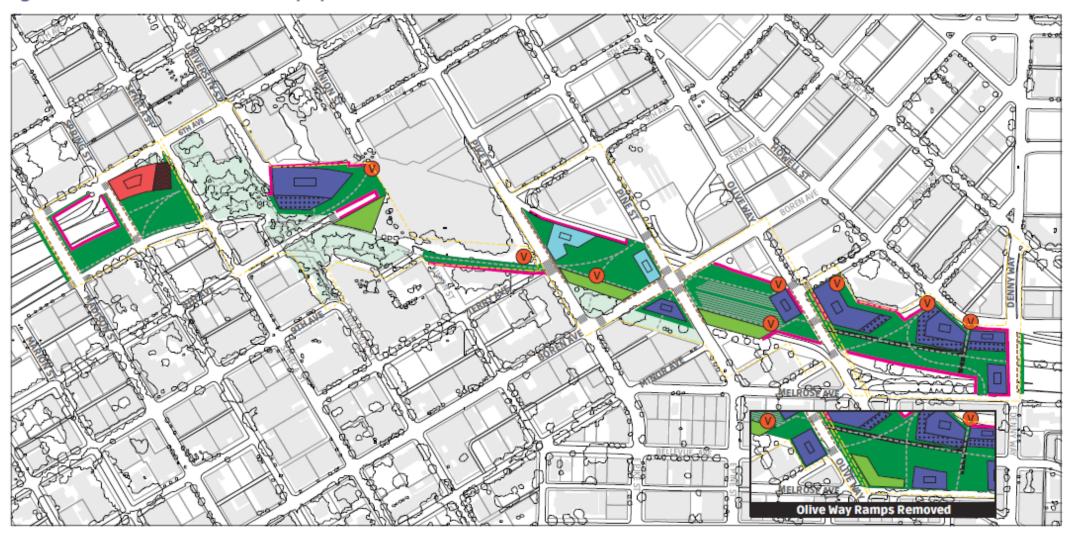




Table 10-1. Capital Cost Breakdown per Lid Area for the Project Bookend Analysis (2019 USD)

	Robust Lid Project (Maximum lid area and load considered)				Lid Project Cost Range		
Lid Area of Analysis	Area (SF)	Cost including 20% construction contingency (\$)	Cost including 20% construction contingency & 30% risk allowance (\$)	Area (SF)	Cost including 20% construction contingency (\$)	Cost including 20% construction contingency & 30% risk allowance (\$)	Cost Range (\$)
Area 1	133,640	472M	614M	67,740	103M	134M	103M - 614M
Area 2	85,550	221M	286M	N/A	*33M	*42M	*33M – 286M
Area 3	279,590	791M	1,027M	215,120	361M	468M	361M - 1,027M
Area 4	257,640	721M	936M	217,280	358M	464M	358M – 936M
Total	756,420	2,205M	2,863M	500,140	855M	1,108M	855M - 2,863M

^{*}Cost consideration for enhancement of the WSCC pedestrian walkway along Hubble Place.

Range of financial bookends of analysis, expressed in capital costs per lid area corresponding to the maximum (Figure 8-5) and minimum (Figure 8-6) potential developable lid area considered in the technical feasibility assessment. Cost breakdown does not include right-of-way costs and federal and state asset replacement but does include other variable costs expressed in 2019 USD.

Table 10-2. Test Case Average Capital Cost Breakdown per Lid Area (2019 USD)

Lid Area of Analysis	Test Case 1 All Ramps Remain		Test Case 2 All Ramps Remain		Test Case 2 Removal of Olive Way Ramps		Test Case 3 All Ramps Remain		Test Case 3 Removal of Olive Way Ramps	
	Area (SF)	Cost (\$)	Area (SF)	Cost (S)	Area (SF)	Cost (S)	Area (SF)	Cost (S)	Area (SF)	Cost (S)
Area 1	58,735	103M	143,405	641M	143,405	641M	116,530	224M	116,530	224M
Area 2	N/A	*37M	85,550	254M	85,550	254M	85,550	204M	85,550	204M
Area 3	231,850	449M	239,035	779M	251,500	820M	230,850	489M	245,745	521M
Area 4	198,790	377M	193,735	624M	250,090	805M	202,355	587M	257,820	748M
Total	489,375	966M	661,725	2,298M	730,545	2,520M	635,285	1,505M	705,645	1,698M

^{*}Cost consideration to enhance the WSCC pedestrian walkway along Hubble Place.

Capital costs assumed for the lid in each test case are expressed as the median value of lid capital costs within the value range of 20 percent design and construction contingency (low-end of cost range) and the compounded 50 percent contingency and risk factor (high-end of cost range). Cost breakdown does not include right-of-way costs and federal and state asset replacement but does includes other variable costs expressed in 2019 USD.

Next Steps

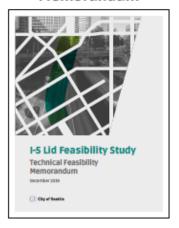


Table 12-1. Primary Revenue Packages and Levies

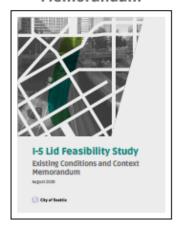
Source	Agency	Name of the Funding Package	Required Voter Approval?	Start Year	End Year	Value	Tax/Fee Funding Source(s)
State	Washington Department of Transportation	Connecting Washington	No	2015	2031	\$16.0B	Gas Tax
State	Washington Department of Transportation	Statewide Transportation Improvement Program (STIP)	No	2020	2023	\$3.3B	Existing Funding
State	Washington Department of Commerce	CERB Local Infrastructure Financing Tool (LIFT)	No	Annual Funding	Annual Funding	\$7.5M	Existing Funding
State	Washington Department of Commerce	Community Economic Revitalization Board	No	2017	2019	\$28.8M	Existing Funding
State	Washington Department of Transportation	Transportation Partnership Program	No	2005	2021	\$7.1B	Existing Funding
Regional	Sound Transit	Sound Transit 2	Yes	2008	2023	\$13.4B	Sales Tax, MVET
Regional	Sound Transit	Sound Transit 3	Yes	2017	2041	\$53.8B	Sales Tax, MVET, Property Tax
Regional	Port of Seattle	Annual Funding Package	No	2020	2021	\$76.4M	Property Tax
County	King County Metro Transit	Metro Connects	No	2017	2040	\$2.0B	Sales Tax
County	King County Parks and Recreation	Parks, Recreation, Trails and Open Space Levy	Yes	2020	2025	\$810M	Property Tax
City	City of Seattle	MOVE Seattle Levy	Yes	2015	2024	\$930M	Property Tax
City	City of Seattle	Parks & Recreation Capital Improvement Program	No	2020	2025	\$87.3M	Property Tax, REET
City	City of Seattle	Transportation Capital Improvement Program	No	2020	2025	\$4.2B	Property Tax, REET
City	City of Seattle	Seattle Public Utilities Capital Improvement Program	No	2020	2025	\$1.5B	Property Tax, REET
City	City of Seattle	Seattle Housing Levy	Yes	2016	2023	\$290M	Property Tax
City	City of Seattle	Seattle Transportation Benefit District	Yes	2015	2020	\$50M	Sales Tax, Vehicle License Fe
City	City of Seattle	Families, Education, Preschool, and Promise Levy	Yes	2019	2026	\$619M	Property Tax

I-5 Lid Feasibility Study Supporting Memorandums

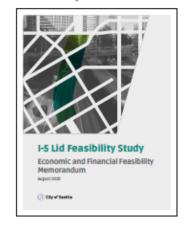
Technical Feasibility Memorandum



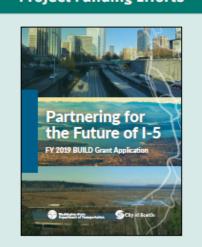
Existing Conditions and Context Memorandum



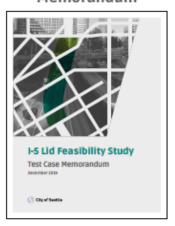
Economic and Financial Feasibility Memorandum



Project Funding Efforts



Test Case Memorandum



Real Estate Market Scan



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Discussion

