

Appendix E: Mitigation Commitments

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Appendix E: RapidRide Roosevelt (J Line) Project - Project Mitigation Commitments by Discipline

IMPACT TYPE	MITIGATION MEASURES ¹	RESPONSIBILITY	PHASE OF IMPLEMENTATION
GENERAL CONSTRUCTION			
<p>Construction</p>	<p>To avoid and/or minimize impacts during construction, SDOT will develop a construction management plan that will require the contractor to follow industry best practices and specific construction mitigation measures as outlined herein for each resource. The construction management plan will be structured as follows:</p> <ul style="list-style-type: none"> • A transit and traffic control plan • A noise and vibration control plan • A business retention during construction plan • A public information plan • Visual nuisance screening plan • A stormwater pollution prevention plan • A utility relocation plan • A standard, project-specific geotechnical investigation • A spill prevention plan • Emergency route plan • An archaeological monitoring and inadvertent discovery plan <p>SDOT will minimize the duration of construction impacts:</p> <ul style="list-style-type: none"> • Through construction phasing and scheduling that provides the most efficient schedule opportunities for a given segment. • Through coordination with other projects in the area. 	<p>SDOT and Contractor</p>	<p>Construction</p>

IMPACT TYPE	MITIGATION MEASURES ¹	RESPONSIBILITY	PHASE OF IMPLEMENTATION
TRANSPORTATION			
Operation	<p>SDOT will relocate affected passenger, commercial vehicle, and truck loading zones along the project corridor, where feasible.</p> <p>To mitigate parking impacts in the Eastlake neighborhood, SDOT will work with Eastlake businesses and residents on the following parking and access strategies during project design:</p> <ul style="list-style-type: none"> • Identify and implement ways to manage street parking in the Eastlake business and residential areas during operation for commercial deliveries, passenger pick-up and drop-off, and visitor and customer access. SDOT will identify opportunities to install additional loading zones, short-term parking, or a combination of these, on Eastlake Ave E or nearby streets. The effort will include field work and community discussions, investigating options, and installing signage as feasible. Options include allowing street parking on both sides of a street where it currently exists on only one side (where there is sufficient curb-to-curb width) and adjusting the restricted parking zone (RPZ) to emphasize short-term parking for visitors and customers. • Prepare a shared-use parking plan for the Eastlake neighborhood looking at the potential for businesses and residential properties to identify and share off-street parking spaces. Implementing shared parking strategies will entail the private businesses and residential properties directly contracting with vendors that provide these services. • Review RPZ 8 to ease parking congestion in the Eastlake residential area and more appropriately balance and prioritize the needs of curb space users in the neighborhood. SDOT's RPZ Program team will: 	SDOT and Contractor	Final Design

IMPACT TYPE	MITIGATION MEASURES ¹	RESPONSIBILITY	PHASE OF IMPLEMENTATION
	<ul style="list-style-type: none"> – Conduct an on-street parking data collection effort throughout the zone – Identify draft changes to zone regulations – Review potential changes with community members (including a required public hearing) – Make changes to RPZ 8 based on data and community input • SDOT will review the community-generated RPZ strategies identified during public outreach. • SDOT will relocate the impacted NE 43rd St passenger loading zone and shuttle loading zone nearby, where feasible, to facilitate passenger pick-up and drop-off for nearby buildings.² 		
Construction	<p>A Traffic Control Plan (TCP) consistent with the Seattle requirements under Client Assist Memo 2111 and the Traffic Control Manual for In-Street Work will be prepared and approved prior to construction. The TCP will include detailed measures to address lane closures and pedestrian and bicycle detours and closures, information on flaggers and signal control, and agency coordination plans.</p> <p>SDOT will coordinate with other ongoing construction projects and advance coordination with special event planners to reduce impacts at periods of high travel demand. SDOT and KCM will work together to monitor the impact of construction on transit service and implement additional actions if needed. For areas where on-street parking and loading zones are temporarily affected during construction, SDOT will provide information to the neighborhood and businesses about other parking opportunities and available transportation options in lieu of driving.</p>	SDOT and Contractor	Construction

IMPACT TYPE	MITIGATION MEASURES ¹	RESPONSIBILITY	PHASE OF IMPLEMENTATION
NOISE AND VIBRATION			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	<p>SDOT will develop construction noise and vibration control plans with each plan including measures to mitigate construction noise and vibration.</p> <p>By meeting City of Seattle noise regulations in Seattle Municipal Code 25.08, FTA criteria will also be satisfied. If required, nighttime noise will require a Noise Variance from the Seattle Department of Construction and Inspections.</p>	SDOT and Contractor	Construction
SOCIOECONOMICS			
Operation	The project will minimize operational impacts to businesses from the removed on-street parking through the mitigation identified under Transportation in this table. Because loading zones will be relocated where feasible, impacts on businesses or persons with mobility issues will be minimized, and additional mitigation is not required. No other mitigation is required during operation.	SDOT and Contractor	Final Design
Construction	<p>SDOT will develop and implement a public information plan that will prescribe outreach to businesses and residents near construction areas, and regular communications with community organizations and service providers.</p> <p>Business access will be maintained throughout the corridor in work zones.</p>	SDOT	Construction
VISUAL AND AESTHETIC RESOURCES			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>

IMPACT TYPE	MITIGATION MEASURES ¹	RESPONSIBILITY	PHASE OF IMPLEMENTATION
Construction	If nighttime construction is required, lighting will be directed downward to reduce impacts on adjacent residences.	SDOT	Construction
STORMWATER/WATER QUALITY			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	A Stormwater Pollution Prevention Plan will be prepared as part of the National Pollutant Discharge Elimination System Construction Stormwater General Permit that will be required. The plan will identify best management practices (BMPs) consistent with the 2017 Stormwater Manual to minimize soil erosion and sediment entering the separated stormwater and combined sewer systems during construction.	SDOT and Contractor	Construction
HAZARDOUS MATERIALS			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	SDOT will identify high-risk sites in the project specifications, including publicly available information from the Washington State Department of Ecology. Any unanticipated contamination encountered during construction will follow the City Standard Specifications for Road, Bridge, and Municipal Construction. Prior to construction, an SDOT-approved Spill Plan, Waste Management Plan, Stormwater Pollution Prevention Plan, and Health and Safety Plan will be prepared and implemented.	SDOT and Contractor	Final Design; Construction
SECTION 4(F) RESOURCES			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	SDOT is working to minimize impacts within the Ravenna Boulevard park resource and historic resource during construction when locating new transportation-related facilities. SDOT's overall goal is to limit impacts to the park boulevard and surrounding grass and trees, and maintain the	SDOT	Final Design; Construction

IMPACT TYPE	MITIGATION MEASURES ¹	RESPONSIBILITY	PHASE OF IMPLEMENTATION
	existing look and feel of Ravenna Boulevard to the greatest extent possible.		
CULTURAL RESOURCES			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	<p>SDOT will prepare an Archaeological Monitoring and Inadvertent Discovery Plan (MIDP) and consult with the Department of Archaeology and Historic Preservation and tribes prior to construction. The MIDP identifies the procedures that SDOT will follow if archaeological resources are encountered during construction.</p> <p>To minimize or avoid impacts to historic structures from construction vibration, the Project's Construction Vibration Control Plan will be reviewed by a Secretary of the Interior-qualified architectural historian.</p>	SDOT and Contractor	Construction
ENVIRONMENTAL JUSTICE			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
LAND USE			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
AIR QUALITY AND GREENHOUSE GASES			
Operation	No mitigation will be required.	<i>Not applicable</i>	Not applicable
Construction	BMPs according to the Standard Specifications for Road, Bridge, and Municipal Construction and dust control BMPs in the City of Seattle Stormwater Manual will be implemented to minimize construction	SDOT and Contractor	Construction

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	emissions and avoid adverse effects. Emissions resulting from trucks hauling construction materials and from construction workers' vehicles will also be reduced through BMPs implemented to protect air quality.		
UTILITIES			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	<p>SDOT will work with Seattle Public Utilities, Seattle City Light, and other utility providers as part of the utility relocation plan. Utility installation or relocation will meet the Standard Specifications for Road, Bridge, and Municipal Construction.</p> <p>SDOT will develop a plan for public outreach to inform customers of potential disruptions and construction schedules.</p> <p>If more than a short service disruption to residences or businesses is required, temporary connections will be provided.</p>	SDOT and Contractor	Final Design; Construction
ENERGY			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>

IMPACT TYPE	MITIGATION MEASURES ¹	RESPONSIBILITY	PHASE OF IMPLEMENTATION
<i>ELECTROMAGNETIC FIELDS</i>			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
<i>GEOLOGY AND SOILS</i>			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
<i>PARKS AND RECREATIONAL RESOURCES</i>			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	SDOT is working to minimize impacts within the Ravenna Boulevard park resource and historic resource during construction when locating new transportation-related facilities. SDOT's overall goal is to limit impacts to the park boulevard and surrounding grass and trees, and maintain the existing look and feel of Ravenna Boulevard to the greatest extent possible.	SDOT	Final Design; Construction
<i>THREATENED AND ENDANGERED SPECIES</i>			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
<i>INDIRECT IMPACTS</i>			
Operation	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>
Construction	No mitigation will be required.	<i>Not applicable</i>	<i>Not applicable</i>

IMPACT TYPE	MITIGATION MEASURES ¹	RESPONSIBILITY	PHASE OF IMPLEMENTATION
CUMULATIVE IMPACTS			
Operation	No mitigation will be required.	<i>Not applicable</i>	Not applicable
Construction	Construction activities that overlap with other projects will result in cumulative impacts due to noise, dust, and traffic congestion. Construction of the project and other developments will temporarily reduce on-street parking during overlap periods. These concerns will be addressed under mitigation identified under Transportation, Noise and Vibration, and Stormwater/Water Quality sections in this table.	SDOT and Contractor	Construction
Table Notes:	¹ All mitigation measures listed in this table were described in the EA except the mitigation measure noted with footnote 2. ² Mitigation measure noted in the Supplemental EA that only applies under the U District Option.		