

Adaptation Strategies:

IMPROVE THE RESILIENCE OF THE TRANSPORTATION NETWORK TO WEATHER EVENTS AND CLIMATE

CHANGE – Prioritize investment in the redesign and upgrade of critical and vulnerable infrastructure that has experienced repeat events due to weather-related hazards, like flooding. Incorporate infrastructure upgrades that increase lifespan through potential repeat hazard events when other maintenance is required. Employ technologies that can monitor the integrity of transportation infrastructure and relay real-time data. Build redundancy into the network by expanding mobility options to more areas of the region.

PRIORITIZE TRANSPORTATION PROJECTS THAT INCORPORATE STORMWATER MANAGEMENT BEST PRACTICES THAT PROTECT WATER QUALITY AND REDUCE THE VOLUME OF STORMWATER RUN-OFF

IMPLEMENT INFILTRATION-BASED PRACTICES TO RETAIN THE CHANNEL-FORMING STORM -

ADAPT VULNERABLE AREAS TO THE IMPACTS OF THE URBAN HEAT ISLANDS EFFECT THROUGH

TRANSPORTATION IMPROVEMENTS – To the extent practicable, utilize transportation right of way to expand urban tree canopy coverage in vulnerable. Incorporate green infrastructure.

REDUCE NUMBER AND SIZE OF OUTFALLS DRAINING TRANSPORTATION FACILITIES USING GREEN

INFRASTRUCTURE SOLUTIONS – Reduce the volume of water flows by reducing the size of outfalls. Capture water run-off through green infrastructure techniques such as vegetated swale drainage systems and pervious pavement.

IDENTIFY AND MITIGATE VULNERABLE AREAS TO STREAM-BANK EROSION RESULTING FROM INCREASED CHANNEL-FORMING FLOWS IN ORDER TO PROTECT THE INTEGRITY OF NEARBY TRANSPORTATION

INFRASTRUCTURE – Leverage critical infrastructure, land use, land cover, stream and topological data to determine areas that are most vulnerable to erosion during extreme rain or snow events. Invest in projects that use infiltration-based retention or stream-bank stabilization best practices.

REVISE FLOODPLAIN MANAGEMENT STRATEGIES TO ACCOUNT FOR LARGER STORM EVENTS, WITH NO-BUILD REQUIREMENTS IN 500 YEAR FLOOD PLAIN – No investments should be made in critical transportation infrastructure be built in 100- or 500-year flood plains,

IMPROVE THE OPERATIONAL RESPONSE TO WEATHER EVENTS TO ENSURE MOBILITY - Employ technologies that can monitor the integrity of transportation infrastructure and relay real-time data to ensure responsiveness to events and overall mobility for all.

EMPLOY COMMUNICATION CHANNELS TO DISTRIBUTE HAZARD-RELATED INFORMATION TO SYSTEM USERS

THAT ARE LESS LIKELY TO BE IMPACTED BY OUTAGES – Incorporate communication technologies that are likely to be accessible to all during outages of tradition communications. Prepare transportation communication plans for increased closures, emergency rerouting, service disruptions, and incident management.