

Physical Environment



Construction Activity

Construction activity is often associated with the temporary effects to the local community. These effects relate to maintenance of traffic during construction, potential traffic diversion onto the arterial street network, temporary access relocation, construction easements, temporary air and water quality degradation, and increased noise levels.

ENVIRONMENTAL CONSEQUENCES

No-Action	General Purpose Lanes	Tolled Express Lanes (Preferred Alternative)
No effects	<ul style="list-style-type: none"> ● Short-term construction effects include: <ul style="list-style-type: none"> - noise - vibration - visual change - temporary soil disturbance - traffic diversion to arterial streets during construction would degrade intersection operations 	<ul style="list-style-type: none"> ● Short-term construction effects include: <ul style="list-style-type: none"> - noise - vibration - visual change - temporary soil disturbance - traffic diversion to arterial streets during construction would degrade intersection

MITIGATION

<ul style="list-style-type: none"> ● Sustainable construction practices such as: <ul style="list-style-type: none"> - reusing materials - recycling - waste minimization - water and energy conservation ● Minor improvements at arterial intersections (such as restriping to lengthen accel/decel lanes) at the following intersections: <ul style="list-style-type: none"> - Lucent/County Line - Broadway/County Line - University/County Line - Colorado/County Line - Colorado/Dry Creek - Quebec/County Line - Yosemite/County Line ● Contractor to develop: <ul style="list-style-type: none"> - detailed construction phasing, traffic control plan, and detour signing plan, including emergency vehicle access - prohibit long-term closures - develop detour signing plan for arterial street system - restrict concurrent work on adjacent interchanges - restrict daytime closures - and follow CDOT Region 6 Lane Closure Strategy 	<ul style="list-style-type: none"> ● Water Quality – Use temporary BMPs during construction to prevent erosion and sedimentation ● Noise: <ul style="list-style-type: none"> - enforce restrictive work hours - use alternative construction methods - and require noise monitoring ● Dust: <ul style="list-style-type: none"> - require contractors to obtain construction permits - develop and implement emissions control plans ● Visual: <ul style="list-style-type: none"> - work with the involved cities and counties - public stakeholders to minimize temporarily undesirable views ● Vibration – Minimize vibration causing operations during nighttime hours in residential areas ● C-470 trail: <ul style="list-style-type: none"> - provide detour routes to avoid closing the trail - two week notice prior to trail detours posted and presented to trail user groups
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