Project Information

Project Name:	**I-25 (US 36-104th Avenue) Safety and Operations Improvements Project**
Environmental Project Manager:	**Austin Curry**
Project Number:	**25563**
Document Type and Date of Approval:	
Project Phase:	

Mitigation Commitment #	Mitigation # by Resource	Mitigation Category	Activity Triggering Mitigation	Location of Activity	Impact from NEPA Document	Commitment From Mitigation Table In Source Document Use Exact Wording from Table in Source Document	Responsible Branch	Timing/Phase of Construction Mitigation to be Constructed	Source Document of Mitigation Commitment and Page Number	Location of Mitigation(s) in Plan Sheets/Specs Include All Page Numbers that Apply	Mitigation Status Date Mitigation Completed	Mitigation Status Name of Person Completing Mitigation	Agency Coordination Agency Coordination Required? Yes or No	Agency Coordination Name of Each Agency	Comments
Mitigation															
1	AQ1	Air Quality	General construction activities	Within Project limits	Release of fugitive dust from construction activities	Conduct ambient air quality monitoring for PM near the project area to assess air quality conditions and trigger additional mitigation measures and public notification if elevated PM readings occur during construction.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
2	BI1	Threatened and Endangered Species	Vegetation removal	Within Project limits	Introduction and spread of noxious weeds, which could impact northern leopard frog habitat	Develop and implement an Integrated Noxious Weed Management Plan specific to species identified in the Biological Resources Technical Report and weeds that occur during construction to reduce the introduction and spread of noxious weeds that could impact the northern leopard frog.	CDOT Engineering and Contractor	Pre-construction and Construction	Biological Resources Technical Report, Pages 26 - 34						
3	BI2	Threatened and Endangered Species	Vegetation removal	Within Project limits	Potential impacts to monarch butterfly habitat	To proactively minimize any impacts to potential monarch butterfly habitat, disturbed areas will be reseeded with a mix of native plant species including two species of flowering forbs and milkweed.	CDOT Environmental and Contractor	Construction	Biological Resources Technical Report, Pages 26 - 34						
4	BI3	Threatened and Endangered Species	Vegetation removal	Within Project limits	Direct and/or indirect impacts to Western Burrowing Owl	Survey for prairie dog colonies to identify locations of potential nesting burrowing owls. Perform protocol surveys for burrowing owl (CPW, 2021). If present, consultation with CPW is required to determine site-specific buffers and other avoidance measures.	CDOT Environmental and Contractor	Pre-construction	Biological Resources Technical Report, Pages 26 - 34						
5	BI6	Vegetation and Noxious Weeds	Vegetation removal	Within Project limits	Potential to introduce noxious weeds or contribute to the spread of noxious weeds	Conduct a noxious weed survey prior to construction to map existing weeds within the Project area. Develop and implement an Integrated Noxious Weed Management Plan to prevent the spread of noxious weeds into temporarily disturbed areas. Implement measures to control noxious weed spread such as salvage weed-free topsoil for use in seeding and equipment washing. CDOT Standard Specification Section 217—Herbicide Treatment will be incorporated into the Project Specifications.	CDOT Environmental and Contractor	Pre-construction and Construction	Biological Resources Technical Report, Pages 26 - 34						
6	BI7	Wildlife—Migratory Birds	Vegetation removal	Within Project limits	Potential impacts to migratory birds and/or their habitats	Incorporate a CDOT Special Specification 240 (Protection of Migratory Birds) as part of the final plan set to avoid impacts on nesting raptors and migratory birds in accordance with the Migratory Bird Treaty Act. Conduct a nest survey by a qualified biologist before nesting season ahead of construction. If active nests are found, coordinate with CPW and the USFWS to determine an appropriate course of action, which may include, but is not limited to, buffering the active nest or a delay in construction to avoid the breeding season.	CDOT Environmental	Final Design, Pre-construction, and Construction	Biological Resources Technical Report, Pages 26 - 34						
7	BI8	Wildlife—Prairie Dogs	Vegetation removal	Within Project limits	Disruption and/or destruction of active black-tailed prairie dog colonies	The area of black-tailed prairie dog towns that will be affected by the project will be mapped and calculated during final design and before construction by a qualified biologist (CDOT, 2009).	CDOT Environmental	Pre-construction / Construction	Biological Resources Technical Report, Pages 26 - 34						
8	BI9	Wildlife—Prairie Dogs	Vegetation removal	Within Project limits	Disruption and/or destruction of active black-tailed prairie dog colonies	During final design and construction, avoid and minimize impacts to prairie dog colonies. Follow CDOT's black-tailed prairie dog policy to guide the prairie dog management activities. Section 240 regarding black-tailed prairie dog management will be added to the project specifications.	CDOT Engineering and Environmental, and Contractor	Pre-Construction and Construction	Biological Resources Technical Report, Pages 26 - 34						
9	BI10	Wildlife—Raptors	General construction activities and vegetation removal	Within Project limits	Possible effect to raptors, including temporary displacement, auditory disturbance, and habitat loss	The Biologist will perform a line-of-sight survey from the project area, or a survey within 0.5 mile for nesting raptors, before the nesting season and ahead of construction. If raptor nests are identified within the buffer, coordination with CPW and the USFWS is required to determine an appropriate course of action, which may include, but is not limited to, a delay in construction to avoid the breeding season. Follow CPW Recommended Buffer Zones and Seasonal Restrictions for Colorado raptors (CPW, 2020).	CDOT Environmental, and Contractor	Pre-construction and Construction	Biological Resources Technical Report, Pages 26 - 34						
10	BI12	Wildlife-Tricolored Bat	Bridge demolition	88th Avenue bridge	Potential displacement or mortality of roosting bats from 88th Avenue bridge removal	Prior to demolition of the 88th Avenue bridge, conduct a structure assessment per FHWA guidelines (USFWS Appendix D Bridge/Culvert Bat Assessment Form, March 2022) to determine whether tri-colored bats or other bat species are using the structure. If no evidence of bat use (e.g., guano, urine staining, or direct observation) is found, no further action is required. If evidence of bat use is confirmed, coordinate with CPW and USFWS to determine appropriate avoidance and minimization measures consistent with the species' listing status at the time of construction.	CDOT Environmental and Contractor	Pre-Construction	Biological Resources Technical Report, Pages 26 - 34						
11	RR2	Recreation and Section 6(f)	ROW acquisition	Niver Creek Open Space	The Proposed Action includes acquiring permanent ROW and a temporary construction easement from the east edge of the Niver Creek Open Space.	An IGA would be required between CDOT and the City of Thornton for the project. The City of Thornton would be compensated for the property acquired in accordance with the IGA.	CDOT Design	Design	Recreation and Section 6(f) Resources Technical Report, Pages 30 - 31						
12	RR3	Recreation and Section 6(f)	Pedestrian underpass replacement under I-25 at the Thornton Park-n-Ride	Niver Creek Trail	The Proposed Action requires temporary closure of 0.35 miles and a detour of 1.15 miles of the Niver Creek Trail.	Detour information would be posted prior to project construction to inform Niver Creek Trail users of the detour information. During construction, the detour would be clearly marked.	CDOT Design CDOT Construction	Design Construction	Recreation and Section 6(f) Resources Technical Report, Pages 30 - 31						
13	NO1	Noise	Traffic operations occurring after construction	By the Mapleton School complex located at 7480 Broadway Street	Traffic causing exceedances of Noise Abatement Criteria (NAC)	A noise wall will be built by the Mapleton School complex located at 7480 Broadway Street, contingent on a majority "yes" vote via a Benefited Receptor Preference Survey of benefited receptors. This vote happens after the project Engineer completes the design for the noise wall during final project design.	CDOT Engineering and Environmental	Final Design & Construction	Traffic Noise Technical Report, Pages 49 - 51						
14	NO2	Noise	Highway widening into existing noise wall location	By Park 88 Apartments	New highway footprint impacts existing noise wall location, requiring demolition	A noise wall will be constructed in a new location between the Park 88 apartments located at 101 E 88th Avenue and I-25. During Final Design, the Engineer will complete the noise wall design.	CDOT Engineering and Environmental	Final Design & Construction	Traffic Noise Technical Report, Pages 49 - 51						
15	NO3	Noise	Highway widening into existing noise wall location	By Grant Way cul-de-sac	New highway footprint impacts existing noise wall location, requiring demolition	A new noise wall will be constructed that has the same dimensions as the demolished barrier but in a new location by 180 and 194 Grant Way. During Final Design, the Engineer will complete the noise wall design.	CDOT Engineering	Final Design & Construction	Traffic Noise Technical Report, Pages 49 - 51						
16	CU1	Cultural	General construction activities	Within Project limits	Impact to newly discovered archaeological resources	Should previously unidentified archaeological resources be discovered during any phase of construction, work will stop until the CDOT Senior Staff Archaeologist is contacted and the resources have been evaluated and appropriate agency coordination and associated actions have occurred for compliance with Section 106 of the NHPA, as necessary. The Contractor shall comply with CDOT Standard Specification 107.23 (Archaeological and Paleontological Discoveries).	CDOT Enviromental and Contractor	Construction	EA Historic Resources/Archaeological Resources and including Tribal Consultation section, Page 69						

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17	PA1	Paleontological	Deep excavation in locations with Denver Formation	Locations within the Denver formation	Impact to newly discovered paleontological resources	Four of the survey areas located in the Denver Formations are recommended for monitoring during construction if significant excavations are anticipated in those locations due to potential presence of fossilized material. No other areas are recommended for monitoring. The Contractor shall comply with CDOT Standard Specification Section 107.23—Archaeological and Paleontological Discoveries.	CDOT Environmental and Contractor	Construction	EA Paleontological Resources section, Page 70						
18	4F1	Section 4(f)	Trail realignment	Niver Creek Trail	The Proposed Action includes realigning the Niver Creek Trail.	An IGA would be required between CDOT and the City of Thornton for the project. Coordination with the OWJ, City of Thornton Open Space and Project Management Division, will continue during final design and construction. All disturbed areas would be re-landscaped post-construction.	CDOT Design CDOT Construction	Construction Post-Construction	Section 4(f) Technical Report, Pages 41 - 43						
19	4F2	Section 4(f)	Pedestrian underpass replacement under I-25 at the Thornton Park-n-Ride	Niver Creek Trail	The Proposed Action requires temporary closure of 0.35 miles and a detour of 1.15 miles of the Niver Creek Trail.	Detour information will be posted prior to Project construction to inform Niver Creek Trail users of the detour information. During construction, the detour will be clearly marked.	CDOT Design CDOT Construction	Design Construction	Section 4(f) Technical Report, Pages 41 - 43						
20	4F3	Section 4(f)	Trail reconstruction	Intersection of Niver Creek Open Space Trails and the Niver Creek Trail	The Proposed Action includes reconstructing the trail connection between the Niver Creek Open Space Trails and Niver Creek Trail, which	Coordination with the official with jurisdiction (OWJ), City of Thornton Open Space and Project Management Division, is ongoing and will continue during final design and construction. BMPs will be employed to avoid and minimize impacts from construction. All disturbed areas will be	CDOT Design CDOT Construction	Design Construction Post-Construction	Section 4(f) Technical Report, Pages 41 - 43						
21	4F4	Section 4(f)	Construction activities	Throughout project area	The Proposed Action includes noise impacts on recreational users.	The Contractor shall notify neighbors in advance when construction noise may occur, in accordance with the public information plan that will be developed for construction.	Contractor	Construction	Section 4(f) Technical Report, Pages 41 - 43						
22	WW3	Wetlands and Aquatic Resources	Construction activities affecting wetlands or waters	Within Project limits	Permanent loss of wetlands and stream	Unavoidable impacts on waters and wetlands will be mitigated per CDOT, U.S. Army Corps of Engineers (USACE), and CDPHE Regulation 87 - Colorado Dredge and Fill Program policies.	CDOT Environmental	Pre-construction	Biological Resources Technical Report, Pages 26 - 34						
23	WW4	Wetlands and Aquatic Resources	Construction activities affecting wetlands or waters	Within Project limits	Permanent loss of wetlands and stream	Unavoidable impacts on all wetlands and waters, regardless of jurisdiction, are expected to be mitigated through purchase of credits at an approved mitigation bank. The type of credits and ratio will be	CDOT Environmental	Pre-construction	Biological Resources Technical Report, Pages 26 - 34						
24	WQ1	Water Quality	Spills of regulated materials during construction	Within Project limits	Water resources and water quality contamination and degradation	A spill prevention, control, and countermeasure plan shall be developed and implemented for the construction site that shall establish standard operating procedures and employee training to minimize the accidental release of pollutants.	CDOT Engineering and Environmental, and Contractor	Pre-construction and Construction	EA Water Quality Section, Page 40 - 41						
25	WQ2	Water Quality	Erosion and stormwater runoff during construction	Within Project limits	Water resources and water quality contamination and degradation	A SWMP will be prepared to outline and detail erosion and sediment control within the construction area during the initial, interim, and final construction phases. The Contractor will implement the SWMP during	CDOT Engineering and Environmental, and Contractor	Final Design and Construction	EA Water Quality Section, Page 40 - 41						
26	HM1	Hazardous Materials	Dewatering of groundwater/ infiltration water in excavations	All locations where groundwater/ infiltration water is generated, and dewatering is required	Potential to encounter contaminated groundwater during construction dewatering	Structural excavation, such as caisson construction, may require the dewatering of contaminated groundwater. If dewatering is necessary, groundwater brought to the surface will be managed according to the CDOT Standard Specifications for Road and Bridge Construction, Section 250 regarding monitoring and characterization, and Section 107.25 regarding water quality control.	CDOT Engineering and Contractor	Final Design, Pre-construction, and Construction	Hazardous Materials Technical Memorandum, Pages 13 - 16						
27	HM2			All locations where groundwater/ infiltration water is generated, and dewatering is required	Potential to encounter contaminated groundwater during construction dewatering	For project areas located within mapped PFAS contaminated groundwater, the contractor will follow revised Section 107.25 entitled "Legal Relations and Responsibility to Public." CDPHE PFAS source/concentration maps will be reviewed, when available.	CDOT Engineering and Contractor	Construction	Hazardous Materials Technical Memorandum, Pages 13 - 16						
28	HM3	Hazardous Materials	Construction/ excavation activities in potentially contaminated areas	Within Project limits and/or surrounding properties	Potential to encounter subsurface contamination	Contractors and workers shall comply with CDOT's latest Revision of Section 250 (Environmental, Health and Safety Management) of the Standard Specifications for Road and Bridge Construction. Workers shall be alert during excavations for any visual or olfactory signs of contamination. If soil or groundwater contamination is encountered, work will stop immediately, and the procedures outlined in CDOT Specification 250 and subsection 107.25(b) shall be followed.	CDOT Engineering and Contractor	Construction	Hazardous Materials Technical Memorandum, Pages 13 - 16						
29	HM4	Hazardous Materials	Bridge replacement, demolition of structures	Within Project limits and/or surrounding properties	Potential to encounter hazardous materials - heavy metal-containing paint, asbestos containing material (ACM)	If structures are disturbed or demolished, they must be tested for heavy metal-containing paint and asbestos containing materials (ACMs) for worker protection and disposal purposes. Depending on the results of sampling, HASP may be completed prior to construction. CDOT requires that all metal project components (e.g., light poles, metal railing, and bridge girders) be recycled. The recycling facility must be notified if painted metal project components contain either lead or chromium. Regardless of heavy metal content, the future contractor must comply with Occupational Safety and Health Administration (OSHA) Regulations 1926.62 and 1926.1126 for worker safety.	CDOT Engineering and Environmental, and Contractor	Construction	Hazardous Materials Technical Memorandum, Pages 13 - 16						
30	HM6	Hazardous Materials	General construction activities	Within Project limits and/or surrounding properties. Monitoring wells on adjacent fueling station properties.	Potential to impact drinking water or groundwater wells	If any drinking water and groundwater monitoring wells are located in the proposed construction area, the wells will be mapped, abandoned and plugged according to CDOT Section 202.02 in Standard Specifications for Road and Bridge Construction and in conformance with the Colorado Department of Natural Resources Division of Water Resources State Engineer Water Well Construction Rules, specifically Rule 16, "Standards for Plugging, Sealing, and Abandoning Wells and Boreholes"	CDOT Engineering, Environmental, ROW, and Contractor	Final Design, Pre-construction, and Construction	Hazardous Materials Technical Memorandum, Pages 13 - 16						
31	SO3	Socioeconomic	Lane closures and construction-related travel delays	Within Project limits	Increase in emergency response travel times	CDOT will develop an emergency service provider coordination plan that will include procedures for notifying emergency service providers (Colorado State Patrol, sheriff, police, fire dispatchers, ambulance providers, etc.) of closures or traffic delays and provide a clear path through the construction zone when needed. CDOT will maintain access for emergency vehicles through the construction limits at all times.	CDOT Engineering and Traffic, and Contractor	Pre-construction and Construction	Socioeconomic Resources Technical Report, Pages 25 - 26						

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32	**RW1**	ROW	ROW acquisition	Surrounding properties outside CDOT ROW	Acquisition of public and private property	For any person(s) whose real property interests may be impacted by this project, the acquisition of those property interests will comply fully with the Uniform Relocation Assistance and Real Property Acquisition Policies Act (Uniform Act) of 1970, as amended. The Uniform Act is a federally mandated program that applies to all acquisitions of real property or displacements of persons resulting from federal or federally assisted programs or projects. It was created to provide for and ensure the fair and equitable treatment of all such persons. All impacted owners will be provided notification of the acquiring agency's intent to acquire an interest in their property including a written offer letter of just compensation specifically describing those property interests. A ROW specialist will be assigned to each property owner to assist them with this process.	CDOT ROW	ROW acquisition phase	Socioeconomic Resources Technical Report, Pages 25 - 26							

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Required Environmental Permits and Approvals															
1	**AQ17**	Air Quality	General construction activities	Within Project limits	Release of fugitive dust from the construction activities	Obtain any required air quality permits prior to the start of construction, including a CDPHE Air Pollutant Emission Notice (APEN), which requires a Fugitive Dust Control Plan to address how dust will be kept at a minimum during construction.	CDOT Engineering and Contractor	Pre-construction	Air Quality Technical Report, Pages 36 - 38						
2	**BI13**	Wildlife Habitat/ Vegetation	Vegetation removal	Within Project limits	Permanent and temporary loss of riparian vegetation and habitats, including within SB 40-jurisdictional areas	Survey riparian areas subject to SB 40 certification with CPW and conduct SB 40 inventory.	CDOT Environmental	Pre-Construction	Biological Resources Technical Report, Pages 26 - 34						
3	**BI14**	Wildlife Habitat/ Vegetation	Vegetation removal	Within Project limits	Permanent and temporary loss of riparian vegetation and habitats, including within SB 40-jurisdictional areas	Develop and implement SB 40 planting plan to replace trees and shrubs according to SB 40 requirements.	CDOT Engineering, Environmental, and Landscape Architect	Pre-Construction/ Construction/ Post-Construction	Biological Resources Technical Report, Pages 26 - 34						
4	**WW5**	Wetlands and Aquatic Resources	Construction activities affecting wetlands or waters	Within Project limits	Permanent loss of wetlands and stream	Obtain a CWA Section 404 Permit from the US Army Corps of Engineers (USACE) prior to the start of construction. Nationwide Permits are anticipated to permit the proposed work, including but not limited to, NWP 14 - Linear Transportation Projects.	CDOT Environmental	Pre-construction	Biological Resources Technical Report, Pages 26 - 34						
5	**WW6**	Wetlands and Aquatic Resources	Construction activities affecting wetlands or waters	Within Project limits	Permanent loss of wetlands and stream	Consult with CDPHE under Regulation 87. Depending on impacts and construction timeline, a temporary or permanent authorization may be given to meet requirements of the Colorado Dredge and Fill Program.	CDOT Environmental	Pre-construction	Biological Resources Technical Report, Pages 26 - 34						
6	**WW7**	Wetlands and Aquatic Resources	Construction activities affecting wetlands or waters	Within Project limits	Permanent loss of wetlands and stream	Prepare a Wetland Finding Report upon completion of final design and impact calculation.	CDOT Environmental	Final Design	Biological Resources Technical Report, Pages 26 - 34						
7	**WQ3**	Water Quality	Erosion and stormwater runoff during construction	Within Project limits	Water resources and water quality contamination and degradation; erosion and increased sedimentation to adjacent water resources	A Colorado Discharge Permit System (CDPS) Construction Stormwater Permit will be obtained from CDPHE's Water Quality Control Division (WQCD). Local jurisdiction's grading permit(s) may be required.	CDOT Engineering and Environmental, and Contractor	Pre-construction	EA Water Quality Section, Page 40 - 41						
8	**WQ4**	Water Quality	Groundwater discharge	Within Project limits	Water resources and water quality degradation	A CDPS Construction Dewatering permit will be required.	CDOT Engineering and Environmental, and Contractor	Pre-construction	EA Water Quality Section, Page 40 - 41						
9	**WQ5**	Water Quality	Discharge of groundwater found to be contaminated	Within Project limits	Contaminated groundwater polluting surface waters or groundwater	A CDPS permit for Remediation Activities for Discharges to Surface Water or Groundwater may be required.	CDOT Engineering and Environmental, and Contractor	Pre-construction	EA Water Quality Section, Page 40 - 41						
10	**FL1**	Floodplains	Culvert replacement and I-25 widening over Niver Creek	Niver Creek and Tributary L	Changes to floodplain boundaries and base flood elevations; reduced severity and frequency of floodplain overtopping on I-25	A Conditional Letter of Map Revision (CLOMR) and, following construction, a Letter of Map Revision (LOMR) shall be submitted to FEMA for review and approval to reflect the proposed changes to the floodplain, in accordance with 44 CFR § 65.12. Should there be impacts on structures, FEMA requires proof of mitigation for structures that would have been adversely impacted prior to the approval of any map revisions.	CDOT Engineering	Final Design; Post-construction	Floodplain Technical Report, Page 16						
11	**FL2**	Floodplains	Drainage modifications and I-25 widening over South Grange Hall Creek	South Grange Hall Creek	Potential rise in base flood elevations from widening and grading absent drainage improvements; reduced floodplain encroachment on I-25 with improvements	Hydraulic modeling of existing and proposed conditions showing no rise in base flood elevations above regulatory standards shall be completed, and a No-Rise Certification shall be submitted to the City of Northglenn for review and approval.	CDOT Engineering	Final Design	Floodplain Technical Report, Page 16						
12	**FL3**	Floodplains	Construction within the effective FEMA floodplain	Niver Creek, Tributary L, and South Grange Hall Creek	Temporary floodplain alterations that could increase safety and flood risks	A floodplain development permit must be obtained from the City of Thornton (Niver Creek and Tributary L) and the City of Northglenn (South Grange Hall Creek) before construction activities begin within the effective FEMA floodplain.	CDOT Engineering and Contractor	Pre-construction	Floodplain Technical Report, Page 16						
13	**NO7**	Noise	General construction activities	Adams County, City of Thornton, and City of Northglenn	Construction noise impacts at adjacent properties	The Contractor shall follow local noise ordinances and Colorado noise Statute 25.12.103. The Contractor shall also apply for variances when necessary.	CDOT Engineering and Contractor	Construction	Traffic Noise Technical Report, Pages 49 - 51						

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Other Environmental Commitments															
1	**TR1**	Transportation	Increased traffic flow after Proposed Action construction is complete	104th Avenue and Grant Street intersection	Degradation of intersection level of service compared to No Action	Monitor the operations at the intersection of 104th Avenue at Grant Street and make modifications to the signal timing, restrict access, or add capacity to ensure acceptable operations are maintained beyond 2050	CDOT Traffic	Post-construction	EA Transportation Section, Page 23						
2	**TR2**	Transportation		Thornton Park-n-Ride facilities south of 88th Avenue	Reconfiguration of Thornton Park-n-Ride lots from realignment of Niver Creek and elimination of slip ramps.	Implement modifications to improve bus and parking lot circulation, bus gates, sidewalks, and curbs at the Thornton Park-n-Ride.	CDOT Traffic	Final Design	EA Transportation Section, Page 23						
3	**AQ2**	Air Quality	General construction activities	Within Project limits	Release of fugitive dust from construction activities	Cover, wet, compact, or use a chemical stabilization binding agent to control dust and excavated materials at construction sites.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
4	**AQ3**	Air Quality	General construction activities	Within Project limits	Release of fugitive dust from construction activities	Use wind barriers and wind screens to prevent spreading dust from the site.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
5	**AQ4**	Air Quality	General construction activities	Within Project limits	Release of fugitive dust from construction activities	Have a wheel wash station and/or crushed stone apron at egress/ingress areas to prevent dirt from being tracked onto public streets.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
6	**AQ5**	Air Quality	General construction activities	Within Project limits	Release of fugitive dust from construction activities	Use vacuum-powered street sweepers to remove dirt tracked onto public streets.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
7	**AQ6**	Air Quality	General construction activities	Within Project limits	Release of fugitive dust from construction activities	Cover all dump trucks that are hauling material leaving the sites to prevent dirt from spilling onto public streets.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
8	**AQ7**	Air Quality	General construction activities	Within Project limits	Release of fugitive dust from construction activities	Minimize disturbed areas, particularly in winter.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
9	**AQ8**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	Prohibit unnecessary idling of construction equipment.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
10	**AQ9**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	Locate construction diesel engines as far away as possible from residential areas.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
11	**AQ10**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	Locate staging areas as far away as possible from residential areas.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
12	**AQ11**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	To the extent practical, use heavy construction equipment that has the cleanest available engines or that can be retrofitted with diesel particulate-control technology.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
13	**AQ12**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	To the extent practical, use alternatives to diesel engines and/or diesel fuels, such as biodiesel, liquefied natural gas, or compressed natural gas, fuel cells, and electric engines.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
14	**AQ13**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	Install engine pre-heater devices to eliminate unnecessary idling for wintertime construction.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
15	**AQ14**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	Prohibit tampering with equipment to increase horsepower or to defeat an emission control device's effectiveness.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
16	**AQ15**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	Require construction vehicle engines to be properly tuned and maintained.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
17	**AQ16**	Air Quality	General construction activities	Within Project limits	Release of diesel emissions from construction equipment	Use construction vehicles and equipment with the minimum practical engine size for the intended job.	CDOT Engineering and Contractor	Construction	Air Quality Technical Report, Pages 36 - 38						
18	**BI4**	Vegetation and Noxious Weeds	Vegetation removal	Within Project limits	Reclamation of existing roadway that would not be incorporated into the Project and other disturbed areas	Develop a revegetation and landscape plan to be approved by a CDOT landscape architect for all reclamation areas prior to construction. Revegetate reclaimed areas with native species to replicate or enhance native vegetative communities. Identify specific objectives of the revegetation plan, such as selecting native plants and seed mixes for revegetation that blend the vegetation with existing vegetation and are consistent with vegetation types, growth habits, and soil types; mimicking surrounding native plant densities; and minimizing the spread of noxious and invasive weeds.	CDOT Engineering and Landscape Architect, and Contractor	Pre-construction and Post-construction	Biological Resources Technical Report, Pages 26 - 34						
19	**BI5**	Vegetation and Noxious Weeds	Vegetation removal	Within Project limits	Clearing and removal of vegetation exposes soils to erosion and disturbs habitat	Revegetate and stabilize temporarily disturbed areas using CDOT-approved native seed mixes.	CDOT Engineering and Contractor	Post-Construction	Biological Resources Technical Report, Pages 26 - 34						
20	**BI11**	Wildlife - General	Erosion Control	Within Project limits	Small mammals, reptiles, and amphibians may become entrapped in erosion control netting such as blankets and waddles.	To reduce wildlife entrapment, all erosion control blankets will be biodegradable and will not contain plastic monofilament netting	CDOT Environmental; CDOT Construction Engineering; Contractor	Construction/ Post-Construction	Biological Resources Technical Report, Pages 26 - 34						
21	**WW1**	Wetlands and Aquatic Resources	General construction activities	Within and adjacent to all mapped wetlands and surface waters	Direct and/or indirect impacts to surface waters and wetlands	Ensure best management practices (BMP)s and containment structures are in place for work conducted within and adjacent to the Ordinary High Water Mark (OHWM) and mapped wetlands to prevent concrete washout and other potential pollutants from reaching creeks and wetlands.	CDOT Engineering and Contractor	Construction	Biological Resources Technical Report, Pages 26 - 34						
22	**WW2**	Wetlands and Aquatic Resources	Construction staging	Construction staging areas adjacent to wetlands or waters	Disturbance of vegetation and potential pollutant discharges into wetlands	Locate construction staging and materials stockpiling at least 50 feet from the edge of wetlands or creeks, when possible. No staging will be allowed in wetlands. Determine specific staging locations during construction planning to verify this buffer is achievable considering the narrowness of the corridor and limited areas available. If this buffer is not achievable, CDOT will consider allowing materials closer to the edge of wetlands or the edge of water and identify appropriate additional BMPs that will be required to minimize disturbance of vegetation and prevent pollutant discharges into sensitive habitats. BMPs will be determined on a site-by-site basis and any modifications will require CDOT environmental staff's approval.	CDOT Engineering and Environmental, and Contractor	Construction	Biological Resources Technical Report, Pages 26 - 34						
23	**RR1**	Recreation and Section 6(f)	ROW acquisition	Property from the west end of Civic Center Park	The Proposed Action includes acquiring property from the west end of Civic Center Park for ROW use; however, this portion of the property is outside the fence determined to mark the area of the park that is available for recreational use.	An intergovernmental agreement (IGA) will be required between CDOT and the City of Thornton for the project. The City of Thornton will be compensated for the property acquired in accordance with the IGA.	CDOT Design	Design	Recreation and Section 6(f) Resources Technical Report, Pages 30 - 31						
24	**RR4**	Recreation and Section 6(f)	Construction activities	Niver Creek Open Space	The Proposed Action requires ground disturbance in the open space area, including vegetation removal.	Any temporarily disturbed areas will be revegetated post-construction according to Thornton Parks and Open Space specifications.	CDOT Construction	Construction Post-construction	Recreation and Section 6(f) Resources Technical Report, Pages 30 - 31						
25	**RR5**	Recreation and Section 6(f)	Trail reconstruction	Intersection of Niver Creek Open Space Trails and the Niver Creek Trail	The Proposed Action includes reconstructing the trail connection between the Niver Creek Open Space Trails and Niver Creek Trail, which would require removing a small portion (less than 25 feet) of the existing Niver Creek Open Space Trails at the north end of the realignment of the Niver Creek Trail.	Coordination with the official with jurisdiction (OWJ), City of Thornton Open Space and Project Management Division, is ongoing and will continue during final design and construction. BMPs will be employed to avoid and minimize impacts from construction. All disturbed areas will be re-landscaped post-construction. A temporary trail will be constructed to limit the detour length.	CDOT Design CDOT Construction	Design Construction Post-construction	Recreation and Section 6(f) Resources Technical Report, Pages 30 - 31						

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Other Environmental Commitments															
26	**RR6**	Recreation and Section 6(f)	Trail realignment	Niver Creek Trail	The Proposed Action includes realigning the Niver Creek Trail.	An IGA would be required between CDOT and the City of Thornton for the project. Coordination with the OWJ, City of Thornton Open Space and Project Management Division will continue during final design and construction. All disturbed areas would be re-landscaped post-construction.	CDOT Design CDOT Construction	Construction Post-Construction	Recreation and Section 6(f) Resources Technical Report, Pages 30 - 31						
27	**RR7**	Recreation and Section 6(f)	Construction activities	Throughout project area	The Proposed Action includes noise impacts on recreational users.	The Contractor shall notify neighbors in advance when construction noise may occur, in accordance with the public information plan that will be developed for construction. The Contractor shall keep noisy activities as far from sensitive receptors as possible and coordinate with the Project Engineer. The Contractor shall keep exhaust systems on equipment in good working order, subject to inspection by the construction Project Manager to ensure maintenance is being conducted. The Contractor shall use properly designed engine enclosures and intake silencers, if appropriate. The Contractor shall place stationary equipment as far from sensitive receptors as possible and coordinate with the Project Engineer. The Contractor shall perform construction activities in noise-sensitive areas during hours that are least disturbing to nearby residents, generally daytime hours, as feasible. The Contractor shall locate haul roads so that they are as minimally disruptive as possible and coordinate with the Project Engineer. The Contractor shall provide a mechanism for complaints. Mechanisms will be determined during final design and may include a Project hotline number or other mechanisms.	Contractor	Construction	Recreation and Section 6(f) Resources Technical Report, Pages 30 - 31						
28	**NO4**	Noise	General construction activities	Within Project limits	Construction noise impacts at adjacent properties	The Contractor shall: · Notify neighbors in advance when construction noise may occur, in accordance with the public information plan that will be developed. · Keep noisy activities as far from sensitive receptors as possible. Coordinate with Project Engineer. · Keep exhaust systems on equipment in good working order. It should be subject to inspection by the construction project manager to ensure maintenance is being conducted. · Use properly designed engine enclosures and intake silencers, if appropriate. · Place stationary equipment as far from sensitive receptors as possible. Coordinate with Project Engineer. · Perform construction activities in noise sensitive areas during hours that are least disturbing to nearby residents, generally daytime hours, as feasible. · Locate haul roads so that they are as minimally disruptive as possible. Coordinate with Project Engineer. · Provide a mechanism for complaints. Mechanisms will be determined during final design and may include a project hotline number or other mechanisms	CDOT Engineering and Public Involvement, and Contractor	Construction	Traffic Noise Technical Report, Pages 49 - 51						
29	**NO5**	Noise	Replacement noise walls not constructed within 6 months of demolition of existing noise walls	Grant Way cul-de-sac and Park 88 Apartments	Noise and visual disturbance for residents	Install temporary noise walls until the permanent replacement walls are constructed if existing noise walls will not be replaced within six months of demolition.	CDOT Engineering, Contractor	Construction	Traffic Noise Technical Report, Pages 49 - 51						
30	**NO6**	Noise	Removal of existing noise walls prior to installation of permanent replacement walls	Grant Way cul-de-sac and Park 88 Apartments	Temporary increase in noise from construction activities during periods where existing noise walls have been removed and replacement walls have not yet been installed	At the Grant Way cul de sac and Park 88 Apartments, during periods where existing noise walls have been removed and permanent replacement walls have not yet been installed, the Contractor shall notify potentially affected residents in advance of planned noise heavy construction activities and night work in the area, and offer hotel vouchers, as needed, in accordance with the project public information plan.	CDOT Engineering, Environmental, and Public Involvement	Construction	Traffic Noise Technical Report, Pages 49 - 51						
31	**HM5**	Hazardous Materials	Property acquisition	Throughout the I-25 corridor, surrounding properties located outside the existing CDOT ROW.	Potential to acquire property with potential hazardous material concerns	An individual, property specific ASTM-compliant Phase I ESA should be completed before taking any additional ownership interest for properties considered for acquisition	CDOT Enviromental and ROW	ROW acquisition phase	Hazardous Materials Technical Memorandum, Pages 13 - 16						
32	**SO1**	Socioeconomic	Lane closures and construction-related travel delays	Within Project limits	Increase in travel times and detours to reach residences, businesses, and other social and community resources	Contractor will develop and implement a public information plan and will work with local public information officers to disseminate construction information materials. Materials will be distributed in English and the primary languages of Limited English Proficiency groups within the CSA, offering translation services as needed.	Contractor and CDOT Public Involvement	Pre-construction and Construction	Socioeconomic Resources Technical Report, Pages 25 - 26						
33	**SO2**	Socioeconomic	Lane closures and construction-related travel delays	Within Project limits	Increase in travel times and detours to reach residences, businesses, and other social and community resources	CDOT will solicit input from Adams County, Northglenn, and City of Thornton on the construction traffic control program and avoid construction during peak directional periods. Work requiring lane closures will be conducted at night as much as possible in accordance with CDOT lane closure strategies.	CDOT Engineering and Traffic, and Contractor	Pre-construction and Construction	Socioeconomic Resources Technical Report, Pages 25 - 26						
34	**SO4**	Socioeconomic	Temporary easements for construction	Within Project limits	Property disturbance	Any construction-related disturbance within temporary easements will be restored to original conditions. Trees and structures within the temporary easement will be protected in place. Any damage to trees, other landscaping, or structures will be repaired at no expense to the owner.	CDOT Engineering and Contractor	Construction and Post-construction	Socioeconomic Resources Technical Report, Pages 25 - 26						
35	**SO5**	Socioeconomic	Noise wall construction, night work, and work in temporary easements	Within Project limits	Temporary increase in noise and adverse visual impacts from I-25 and construction	Conduct outreach to owners of impacted properties in advance of construction-impacting activities detailing upcoming schedules and work.	CDOT Engineering, Environmental, and Public Involvement	Construction	Socioeconomic Resources Technical Report, Pages 25 - 26						
36	**SO6**	Socioeconomic	Highway widening, and work in temporary easements	Commercial buildings east of I-25 between 74th Avenue and 76th Avenue	Large trucks may have more difficulty or be unable to access loading docks during construction.	Prior to construction activities, CDOT shall conduct outreach to business owners to coordinate construction schedules and maintain continuous access to commercial loading docks.	CDOT Engineering, Environmental, and ROW	Pre-construction	Socioeconomic Resources Technical Report, Pages 25 - 26						
37	**VI1**	Visual	General construction activities	Within Project limits	Temporary visual impacts would result from views of staging areas, construction vehicles, construction personnel, and temporary	Restore staging areas and construction mitigation such as silt fences per CDOT Design Specification 106.08, Storage of Materials: "All storage sites shall be restored to their original condition at the Contractor's expense" (CDOT 2019a) and Section 208.4(f), Control Measures for Stormwater: "If	CDOT Engineeering and Contractor	Post-Construction	Visual Impact Assessment Technical Memorandum, Pages 17 - 20						

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38	**VI2**	Visual	General construction activities	Existing landscaped areas and interchanges	Temporary visual impacts would result from the disturbance of existing landscaped areas through construction-related activities.	Existing landscaping that is disturbed by construction-related activities will be replaced. Slopes are designed to be 3:1 (Maximum) (horizontal:vertical) or flatter where feasible to support maintenance access and vegetation establishment. Where steeper slopes are required due to site constraints, design measures such as slope rounding, warping, or retaining walls are incorporated to reduce visual contrasts and maintain landscape compatibility.	CDOT Engineering and Contractor	Post-Construction	Visual Impact Assessment Technical Memorandum, Pages 17 - 20						
39	**VI3**	Visual	Installation of noise barrier	Between I-25 SB and the Mapleton School complex	Permanent visual change for highway viewers and users; viewers from the Mapleton School complex would likely no longer have highway views	The design of the new noise wall will be as aesthetically consistent with the existing adjacent masonry wall to include a beige color with a split face block and dark brown continuous accent block near the top of the wall.	CDOT Engineer and Landscape Architect, and Contractor	Final Design	Visual Impact Assessment Technical Memorandum, Pages 17 - 20						
40	**VI4**	Visual	Replacement and extension of noise barrier	Between I-25 NB and Park 88 Apartments	Permanent visual change for highway viewers and users; viewers from Park 88 Apartments would likely notice the wall 15 feet closer on the south side of the complex, while highway users	The design of the replacement and extended noise walls will be consistent with the existing post-and-panel noise wall construction used throughout the corridor and include a beige color with a split face block and intermittent dark brown mountain pattern panels.	CDOT Engineer and Landscape Architect, and Contractor	Final Design and Construction	Visual Impact Assessment Technical Memorandum, Pages 17 - 20						
41	**VI5**	Visual	Replacement of noise barrier	Between I-25 NB and 194 Grant Way	Temporary visual impact to residents are likely during reconstruction of noise barrier in this location; they are likely to experience views of construction during this time	The contractor shall notify neighbors as soon as possible about timing of construction.	CDOT Engineering and Contractor	Construction	Visual Impact Assessment Technical Memorandum, Pages 17 - 20						
42	**VI6**	Visual	Replacement of noise barrier closer to residences	Between I-25 NB and 194 Grant Way	Permanent visual change for Grant Way residents	The Contractor will coordinate with the residents at 180 and 194 Grant Way and offer each residence up to three saplings with planting and care instructions, furnished by the Contractor, for voluntary planting by the property owners to help mitigate visual impacts associated with the replaced noise wall.	Contractor, CDOT Engineering, Environmental, and Landscape Architect	Pre-construction and Construction	Visual Impact Assessment Technical Memorandum, Pages 17 - 20						
43	**VI7**	Visual	Removal of trees, shrubs, and grasses	Within Project limits	Permanent visual change with plant removal necessary for highway expansion	Replace trees with trees that are both low water and adapted to soils on Thornton or the Adams County's approved tree list and include a plan for 3 year maintenance. Include tree placement and species in final design and require Contractor	CDOT Engineering and Landscape Architect	Final Design and Construction	Visual Impact Assessment Technical Memorandum, Pages 17 - 20						
44	**VI8**	Visual	Installation of new retaining walls eight feet in height or taller	Construction limits near parks, open spaces, and residences	Retaining walls eight feet in height or higher are visually dominant within the landscape	Retaining walls eight feet in height or higher will feature a beige split face block style. The selected treatments shall be documented in the final plan set and are subject to CDOT approval prior to construction.	CDOT Engineering and Landscape Architect	Final Design	Visual Impact Assessment Technical Memorandum, Pages 17 - 20						
45	**GS1**	Geologic, Soils, and Geohazards	Potential to encounter expansive soils, shallow bedrock, and/or subsidence areas	Within Project limits	Potential for expansive soils and subsidence areas to damage roadway post-construction. Encountering shallow bedrock could delay	Conduct site-specific geotechnical investigations during final design to characterize subsurface conditions, including expansive soils, shallow bedrock, and potential subsidence areas, and incorporate findings into final roadway, bridge, and retaining wall design.	CDOT Engineering	Final Design	EA Geologic, Soils, and Geohazards Section, Page 72						
46	**GS2**	Geologic, Soils, and Geohazards	Potential to encounter shallow bedrock	Within Project limits	Worker for bedrock encounter to pose a risk to workers' safety. Encountering shallow bedrock could delay construction.	Implement appropriate excavation methods and construction techniques where shallow or hard bedrock is encountered to ensure stability and worker safety.	CDOT Engineering and Contractor	Construction	EA Geologic, Soils, and Geohazards Section, Page 72						
47	**UT1**	Utilities	General construction activities	Within Project limits	Unexpected impacts to utilities infrastructure could temporarily disrupt utility service and/or delay construction schedule	CDOT will continue coordination with utility owners throughout final design to identify, avoid, minimize, and resolve potential utility impacts. Where avoidance is not practicable, utilities will be relocated/lowered as needed to avoid construction impacts.	CDOT Engineering and Contractor	Final Design and Construction	EA Utilities Section, Page 73						
48	**UT2**	Utilities	General construction activities	Within Project limits	Unexpected impacts to utilities infrastructure could temporarily disrupt utility service and/or delay construction schedule	Additional Subsurface Utility Engineering investigations will occur as needed to reduce unexpected utility encounters.	CDOT Engineering and Contractor	Final Design and Construction	EA Utilities Section, Page 73						
49	**RW2**	ROW	ROW acquisition	Property from the west end of Civic Center Park	The Proposed Action includes acquiring property from the west end of Civic Center Park for ROW use; however, this portion of the property is outside the fence determined to mark the area of the park that is available for recreational use.	An intergovernmental agreement (IGA) will be required between CDOT and the City of Thornton for the project. The City of Thornton will be compensated for the property acquired in accordance with the IGA.	CDOT Design	Design	Recreation and Section 6(f) Resources Technical Report, Pages 30 - 31						