

## Chapter 5. Coordination and Response to Comments

### 5.1 How was the public involved in the Twin Tunnels Environmental Assessment?

Public outreach occurred throughout the National Environmental Policy Act (NEPA) process and focused on the communities directly and indirectly affected by the Proposed Action. The Colorado Department of Transportation (CDOT) and Federal Highway Administration (FHWA) (the lead agencies) held a public scoping meeting on September 27, 2011, in Idaho Springs to elicit public input and help define the project scope. The lead agencies used mailings, email notifications, one-on-one meetings, newspaper and radio advertisements, flyers, and the [project website](#) to provide project information to the public. The lead agencies followed the I-70 Mountain Corridor Context Sensitive Solutions (CSS) process and established a Project Leadership Team, Technical Team, and Issue Task Forces that met and provided input regularly throughout the project. Members of these teams shared information with their respective organizations and constituents, acting as “ambassadors” for distributing project information. [Chapter 5](#) in the Environmental Assessment (EA) describes in detail the roles of these teams and the public involvement and outreach activities that occurred prior to publication of the EA for public review.

The lead agencies published the [EA, Section 4\(f\) Evaluation](#), and [Portal to Portal Access Road Companion Report](#) for public review and comment on July 5, 2012. The comment period ended on August 4, 2012. Copies of the EA were published electronically on the [project website](#) with hard copies sent to state and federal agencies, repositories, and Project Leadership Team members. Electronic notifications of the availability of the documents for review were emailed to the Technical Team, CDOT’s I-70 subscribers list, and the project email list. A postcard announcing the EA and public hearing was mailed to the project mailing list of more than 4,000 individuals. Notices were also published in local newspapers, and flyers were distributed to community centers, grocery stores, churches, and other gathering spots along the corridor.

During the comment period, the lead agencies hosted a public hearing in Idaho Springs on July 25, 2012, to present the EA results and elicit comments on the EA and the access road proposal described in the Portal to Portal Access Road Companion Report. The hearing

began with a 60-minute open house, followed by a presentation by the CDOT I-70 Mountain Corridor Manager. The hearing provided an opportunity for members of the public to view display boards, discuss the Proposed Action with members of the project team, and record their oral comments with a court reporter. The [Public Hearing Summary Report](#), included electronically in the appendix, provides additional details about the public hearing.

Individuals and organizations submitted a total of 37 comment documents at the public hearing and via letters and emails during the comment period.

**Table 5-1** of this document lists the individuals and organizations that provided comments, and **Table 5-2** includes the text of the comments received and corresponding responses from the lead agencies.

### 5.2 How were local, state, and federal agencies and organizations involved in the Twin Tunnels Environmental Assessment?

The lead agencies coordinated with other local, state, and federal agencies throughout the NEPA process. The lead agencies hosted an agency scoping meeting at FHWA offices in Lakewood, Colorado, on September 26, 2011, to identify important issues for in-depth analysis and to identify additional environmental review and consultation/regulatory requirements from each agency’s perspective. The lead agencies also held coordination meetings with individual agencies and with larger interagency teams, and many agencies participated on the Project Leadership Team, Technical Team, and/or Issue Task Forces.

The lead agencies coordinated with the following agencies and organizations throughout the NEPA process. Agencies that participated in the Technical Team (TT) and/or Issue Task Forces (ITF) are noted in parentheses.

#### Federal Agencies

- Advisory Council on Historic Preservation
- Bureau of Land Management (ITF)
- U.S. Army Corps of Engineers (TT, ITF)
- Natural Resources Conservation Service (ITF)

- U.S. Environmental Protection Agency (TT)
- U.S. Fish and Wildlife Service (TT, ITF)
- U.S. Forest Service (TT, ITF)
- National Park Service (ITF)

## State Agencies

- Colorado Department of Public Health and Environment (CDPHE) – Air Pollution Control Division (TT)
- CDPHE – Water Quality Control Division
- CDPHE – Hazardous Materials and Waste Management Division
- Colorado Parks and Wildlife (TT, ITF)
- Colorado Water Quality Control Commission (ITF)
- State Historic Preservation Office (TT, ITF)

## Local Agencies

- Clear Creek County (Commissioners [PLT, TT, ITF], Public Works [TT, ITF], Emergency Management Services [TT], Planning [TT, ITF], Open Space Commission [ITF], Floodplain Administrator)
- City of Idaho Springs (Mayor [PLT, TT, ITF], City Council, City Administrator)
- Denver Regional Council of Governments (TT)
- Jefferson County (TT)
- Summit County (TT)
- Town of Georgetown (ITF)

## Organizations

- Clear Creek Watershed Foundation (ITF)
- Colorado Trout Unlimited (TT, ITF)
- Colorado Watershed Assembly (ITF)
- ECO-resolutions (ITF)
- Historical Society of Idaho Springs (ITF)
- Rocky Mountain Wild (ITF)
- Upper Clear Creek Watershed Association (TT, ITF)

[Chapter 5](#) in the EA describes in detail agency participation and coordination prior to publication of the EA for public review. [Appendix F](#) of the EA includes written correspondence with agencies prior to the EA release. Correspondence received since the EA was published is included in the attached electronic appendix.

In advance of the public hearing, CDOT hosted a Technical Team meeting on July 24, 2012 to review the Twin Tunnels EA process and conclusions and to seek agency input about the EA, planned public hearing, and

overall process. Verbal comments provided at the meeting indicated support for the NEPA and CSS approaches the lead agencies followed for the EA, as well as for the high level of agency involvement in developing and evaluating the Proposed Action.

Eight federal, state, and local agencies provided written comments on the EA, Section 4(f) Evaluation, and Portal to Portal Access Road Companion Report. **Table 5-2** in Section 5.4 of this document includes the written agency comments received during the comment period and corresponding responses from the lead agencies.

## 5.3 How will stakeholder involvement continue after the NEPA process is complete?

Public and agency coordination will continue as the Twin Tunnels project transitions from the NEPA phase to the design and construction phases. The core values established for the EA will continue to guide decision making in the design and construction phases. This approach is consistent with the I-70 Mountain Corridor CSS process, which envisions CSS principles being applied in each of CDOT's project life cycles.

The Project Leadership Team is continuing with similar members, and a new Technical Team has been chartered to provide input and expertise on specific design and construction details in the next life cycle phases. Both teams will continue to advise CDOT on public involvement and education methods and scope, and will act as public information ambassadors, especially in the construction phase.

CDOT and consultant environmental staff will monitor mitigation commitments, as outlined in **Table 3-1** in Chapter 3 of this FONSI. These staff will also work closely with the contractor to review opportunities to adapt construction methods to avoid activities that cause impacts.

CDOT will conduct an evaluation of the EA process, including the effectiveness of the CSS process followed, with the project teams to generate lessons learned and other ideas to improve future Tier 2 NEPA processes. This follow-up will occur for future phases as well. Similar to [Appendix C](#) in the EA, which summarizes how the Proposed Action in the EA considered and met CSS guidance, CDOT will specifically document how the CSS process was used in each future project phase.

## 5.4 Comments and Responses

The lead agencies received a total of 37 public and agency comment documents during the comment period. Six individuals provided oral comments at the public hearing on their own behalf or on behalf of a local agency or interest group. An additional five comments were submitted in writing at the public hearing. The remaining 26 written comments were received during the EA comment period. Some comments required clarifications or updates to the EA or Section 4(f) conclusions and/or project mitigation commitments, and these are noted in the comment responses and identified in Chapters 4 and 6 of this FONSI.

**Table 5-1** provides an index of comments received, categorized by state or federal agency (SF), local agency or elected official (LO), organization (ORG), and individual (IND), and organized alphabetically by name within these categories. Each comment document was assigned a unique document identification number and delineated by topic to address multiple comments provided by each commenter, resulting in 137 discrete comments. Although some individuals and interest groups submitted multiple comments, each comment received is counted in the comment totals. **Table 5-2** presents individual comments side-by-side with the lead agencies' responses. **Table 5-2** is organized according to the organization categories and then sequentially by document ID.

**Table 5-1.** Index of Comments Received on the EA, Section 4(f) Evaluation, and Portal-to-Portal Access Road Companion Report

Name	Document ID	Source
<b>State/Federal Agencies</b>		
U.S. Forest Service	SF-01	Email
U.S. Environmental Protection Agency	SF-02	Letter
U.S. Department of the Interior	SF-03	Letter
<b>Local Officials</b>		
Idaho Springs Ward 1 City Council Member	LO-01	Public Hearing-Written
Clear Creek County Commissioners	LO-02	Letter
Denver Regional Council of Governments	LO-03	Letter
Clear Creek County School District	LO-04	Public Hearing-Oral
Idaho Springs Mayor	LO-05	Public Hearing-Oral
<b>Organizations and Interest Groups</b>		
Colorado Trout Unlimited	ORG-01	Letter
Colorado Trout Unlimited	ORG-02	Public Hearing-Oral
<b>Individuals (in alphabetical order)</b>		
Braman, Dick	IND-12	Letter
Braman, Dick	IND-23	Letter
Brown, Bruce	IND-19	Email
Doyle, Fred	IND-13	Email
Drexel, Grayson	IND-06	Email
Ebert, Dan	IND-21	Email
Fielder, Linda	IND-10	Email
Grannis, Pete	IND-08	Email
Harris, Alan	IND-03	Email
Helseth, Pete	IND-18	Email
Idol, Lorna	IND-20	Email
Idol, Lorna	IND-25	Public Hearing-Oral

**Table 5-1.** Index of Comments Received on the EA, Section 4(f) Evaluation, and Portal-to-Portal Access Road Companion Report

Name	Document ID	Source
Jb1938cha	IND-05	Email
Mayo, Gerald	IND-01	Email
Mayo, Gerald	IND-02	Email
McFadden, Sarah	IND-15	Public Hearing-Written
McFadden, Sarah	IND-22	Email
Moody, Donna	IND-16	Public Hearing-Written
Rutter, Ralph	IND-14	Public Hearing-Written
Rutter, Ralph	IND-27	Public Hearing-Oral
Sterett, Kent	IND-11	Email
Strauss, Richard	IND-17	Public Hearing-Written
Toohey, Tim	IND-26	Public Hearing-Oral
Tyron, Debbi	IND-04	Email
Van Ort, Rick	IND-07	Email
Wagstaff, Quincy	IND-24	Letter
Yeats, F.R.	IND-09	Email

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

	<b>Source:</b> Email <b>Document Number:</b> SF-1	<b>Name:</b> Alison Michael <b>City, Zip Code:</b> Unknown
		<p>Hi David,</p>
A	<p>I have a few comments on the T&amp;E section of the Twin Tunnels EA. The second paragraph of section 3.10.6 on page 3.10-4 has a sentence that says, "Temporary direct effects include...mortality." Mortality is, I think, pretty permanent! Maybe they mean that the increased risk of mortality due to the project is temporary.</p>	<p><b>Response to SF-1</b></p> <ul style="list-style-type: none"> <li>A. The referenced sentence has been clarified in <a href="#">Section 4.2.3</a> of the FONSI to note that "temporary direct effects include temporary habitat loss, construction noise disturbance, and increased <i>risk of mortality</i>."</li> </ul>
B	<p>On the next page, in the question: What effects occur during construction?" you could add garbage generated by the crew which can act as an attractant. This is especially important for bears, because you don't want them to become any more acclimated to people than they are already.</p>	<ul style="list-style-type: none"> <li>B. This impact has been added to the clarifications in <a href="#">Section 4.2.3</a> of the FONSI. An additional mitigation commitment has been included in <b>Table 3-1</b> of the FONSI requiring construction crews to remove food and food-related garbage from the construction site daily.</li> </ul>
C	<p>Table 3-29 on page 3.10-7. I think that the Mitigation for "Construction-related disturbance between April 1 and August 31" needs to refer to CDOT's specs which call for preventing nesting by cutting down vegetation prior to the nesting season or removing nests before any eggs are laid to ensure that birds don't nest there and delay construction. There's a spec for bridges, too, and preventing nesting. Check with Jeff if you need those.</p>	<ul style="list-style-type: none"> <li>C. The mitigation measure in <a href="#">Table 3-29</a> of the EA has been clarified in Section 4.2.5 of the FONSI to include a reference to CDOT Specifications 240 - Protection of Migratory Birds.</li> </ul>
D	<p>Page 3.12-1, the second paragraph on the right-hand column: IPAC should be IPaC.</p>	<ul style="list-style-type: none"> <li>D. The clarification is noted. The correct acronym for Information, Planning, and Conservation should be IPaC and not IPAC.</li> </ul>
E	<p>Next paragraph, last sentence: I'm not sure what determination would be made in coordination with USFWS. Whether a BA is prepared?</p>	<ul style="list-style-type: none"> <li>E. No "determination" will be made but consultation with U.S. Fish and Wildlife Service (USFWS) will be included during the Biological Assessment process, if needed and as appropriate during Tier 2 projects.</li> </ul>
F	<p>Section 3.12.3, page 3.12-2, second paragraph: Proposed species have "special status" too; we just don't have any right now.</p>	<ul style="list-style-type: none"> <li>F. <a href="#">Section 4.2.3</a> of the FONSI clarifies that special status species include species that have been listed and those that are proposed for listing as threatened or endangered by USFWS. Currently, no species proposed for listing, but not listed, are present in the project area; therefore, the species evaluated did not change.</li> </ul>
G	<p>Next column, second paragraph states that, "Suitable habitat does exist within the South Platte River system downstream for the species identified on the South Platte River depletions list." Of course it does! The effect that this project has is to depletions, which in turn will affect the downstream species in Nebraska. I think that's the point that needs to be made. Anyway...I thought that sentence was kind of whacky.</p>	<ul style="list-style-type: none"> <li>G. This section in the EA discusses the threatened or endangered species and habitats in the study area, including habitat for the species on the South Platte River depletions list. <a href="#">Section 3.12.5</a> of the EA describes the effects of depletions. <a href="#">Section 4.2.3</a> of the FONSI provides current procedures for addressing depletions (as provided in your comment SF-1-I).</li> </ul>
H	<p>Same column, last paragraph, last sentence, there's a typo: "line" should be "lane"</p>	<ul style="list-style-type: none"> <li>H. You are correct that "line" should be "lane" in this location in the EA.</li> </ul>

*Continued on next page*

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> SF-1	<b>Name:</b> Alison Michael (continued) <b>City, Zip Code:</b> Unknown	
I	Next page (3.12-3), second paragraph about downstream impacts: Jeff has an updated paragraph that addresses how CDOT/FHWA are dealing with Platte River depletions. The first and third paragraphs on the next column should reflect those same updates.	<b>Response to SF-1 (continued)</b> I. The current procedures for addressing depletions are noted in <a href="#">Section 4.2.3</a> of the FONSI as follows: "In order to address the effects of South Platte River basin depletions on federally listed species downstream that depend on the river for their survival, CDOT, as a state agency, is participating in the South Platte Water Related Activities Program (SPWRAP). CDOT is cooperating with the Federal Highway Administration (FHWA), which provides a federal nexus for the project. In response to the need for formal consultation for the water used from the South Platte basin, FHWA has prepared a Programmatic Biological Assessment (PBA) dated February 2, 2012, that estimates total water usage until 2019. The PBA addresses the following species: Least Tern (interior population) ( <i>Sternula antillarum</i> ), pallid sturgeon ( <i>Scaphirhynchus albus</i> ), Piping Plover ( <i>Charadrius melanotos</i> ), western prairie fringed orchid ( <i>Platanthera praecox</i> ), and the Whooping Crane ( <i>Grus americana</i> ). On April 4, 2012, the USFWS signed a Biological Opinion that concurs with this approach and requires a yearly reporting of water usage. The water used for this project will be reported to the USFWS at year's end after completion of the project as per the aforementioned consultation. Effects to species not addressed in the PBA or affected by causes other than water depletions to the South Platte will be analyzed separately."
J	Table 3-32 on the next page: the mitigation needs to be updated, and the impacts are to all the Platte River species, not just the fish, and it isn't the construction activities that cause the impact, but rather the depletions caused by the construction activities.  That's it. I also have a question that I'd like to talk to you about, and I don't have your current number.  Let me know if you have any questions.  Thanks, Alison	Additionally, <a href="#">Section 4.2.3</a> of the FONSI clarifies that CDOT only participates in the SPWRAP to address South Platte River basin depletions and not the Platte River Recovery Implementation Program.  J. This mitigation measure has been revised in <b>Table 3-1</b> of this FONSI and noted as a clarification in <a href="#">Section 4.2.5</a> in the FONSI. The Impact column has changed from "Platte River fish species . . ." to "Platte River species ...." and the mitigation description is revised to clarify that CDOT does not participate in the Platte River Recovery Implementation Program and provides additional information on reporting requirements. The revised mitigation strikes and adds text as follows (new text is <u>underlined</u> ): "Mitigation for impacts caused by water depletions on federally listed species will be addressed by FHWA and CDOT participation in the Platte River Recovery Implementation Program and through the South Platte Water Related Activities Program. Water used for this project will be reported to the USFWS at the completion of the project. This will include yearly reporting to the USFWS of water usage per the Programmatic Biological Assessment and the subsequent Biological Opinion signed by the USFWS on April 4 2012."

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter <b>Document Number:</b> SF-2	<b>Name:</b> Suzanne Bohan, EPA <b>City, Zip Code:</b> Denver, 80202	<b>Response to SF-2</b>  A. Comment noted.
 <p>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8 1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 <a href="http://www.epa.gov/region08">http://www.epa.gov/region08</a></p> <p>AUG 1 2012</p> <p>Ref: 8EPR-N</p> <p>Mr. John Cater Division Administrator Federal Highway Administration 12300 W. Dakota Avenue, Suite 180 Lakewood, CO 80228</p> <p>Mr. Donald E. Hunt Executive Director Colorado Department of Transportation 4201 E. Arkansas Avenue Denver, CO 80222</p> <p>Re: Twin Tunnels Environmental Assessment</p> <p>Dear Mr. Cater and Mr. Hunt:</p> <p>Thank you for providing the U.S. Environmental Protection Agency (EPA) the opportunity to review the Environmental Assessment (EA) and the Portal to Portal Access Road Companion Report for the Twin Tunnels project and to participate on the Technical Team for the past 10 months. Our comments are provided for your consideration pursuant to our responsibilities and authority under Section 102(2)(C) of the National Environmental Policy Act (NEPA), 42 U.S.C. Section 4332(2)(C), and Section 309 of the Clean Air Act, 42 U.S.C. Section 7609.</p> <p>This project involves a 3-mile stretch of I-70 from the Idaho Springs interchange to the bottom of Floyd Hill. To increase safety and mobility and to reduce traffic congestion in this section of the interstate highway, the Federal Highway Administration (FHWA) and the Colorado Department of Transportation (CDOT) are proposing to: (1) add a third eastbound travel lane plus shoulders, (2) widen the eastbound tunnel, (3) flatten curves and improve sight distance by adding median/retaining walls, (4) replace the eastbound bridge over Clear Creek just west of Hidden Valley and (5) build transitions to and use a 1-mile segment of County Road 314, a frontage road, as a detour. In addition, FHWA and CDOT propose building an approximately 1,500-foot access road north of the detour road for construction traffic and emergency responders, as needed. This action was analyzed in the companion report, but not in the EA because it was proposed by the construction contractor after the EA analysis had been completed.</p> <p>The EA provided an excellent discussion about how FHWA and CDOT have avoided most project impacts and are providing mitigation and monitoring for unavoidable ones. Following are our comments.</p>	<b>Response to SF-2</b>  A. Comment noted.	

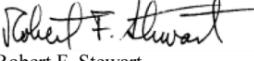
**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter <b>Document Number:</b> SF-2	<b>Name:</b> Suzanne Bohan, EPA (continued) <b>City, Zip Code:</b> Denver, 80202	
<b>Air Quality</b>		
B	The EPA appreciates the level of air quality detail provided in the EA and the technical reports, particularly the fact that EPA's MOVES2010a Model was used for estimating emissions from the project's 2010 base year and 2035 build year for criteria pollutants and mobile source air toxics emissions. It appears that these models were used appropriately, and we are comfortable that the air quality impacts are accurately presented in this EA, resulting in protection of human health and air quality-related values. We also are pleased that FHWA and CDOT presented information about greenhouse gas emissions from the Twin Tunnels project and worked closely with the Colorado Department of Public Health and Environment to monitor air quality impacts by installing two PM <sub>10</sub> monitors on the east and west sides of the project area during the blasting and material removal portion of the project.	<b>Response to SF-2 (continued)</b>  B. Comment noted.  C. As noted in <b>Table 3-1</b> of this FONSI, CDOT will implement appropriate best management practices (BMPs) for erosion and sediment control according to the <i>CDOT Erosion Control and Stormwater Quality Guide</i> (CDOT, 2002), and will develop a stormwater management plan, which includes water quality monitoring. A new mitigation measure has been added to <b>Table 3-1</b> in the FONSI, per your request, stating that an inspection and maintenance plan, including schedule, will be developed to ensure that the sediment control measures required for the access road are functioning as designed. The new mitigation measure is also referenced as a clarification to the EA in <u><a href="#">Section 4.2.5</a></u> of this FONSI.
<b>Water Quality</b>		D. Comment noted.
C	While we understand that the proposed construction access road, described and analyzed in the companion report, will improve safety by moving construction vehicles as well as first responders off the detour road, we have concerns about impacts to the environment caused by building and using the access road. The proposed mitigation is to grade the road sloping to the north or west to avoid sedimentation of nearby Clear Creek. The EPA understand that these grading and sediment control measures will be included in the Finding of No Significant Impacts and we recommend that this mitigation include an inspection and maintenance schedule to ensure that the sediment control measures are working as designed.	
<b>General</b>		
D	The public involvement process utilized throughout this Tier 2 NEPA process for the Twin Tunnels project was inclusive and transparent. We observed that when concerns were raised, FHWA and CDOT quickly responded. The EPA particularly appreciated the discussion about safety issues regarding the potential for a managed lane during peak driving periods.	
	Again, thank you for the opportunity to review the EA and companion report. If you have any questions, please contact me at 303-312-6925 or Carol Anderson of my staff at 303-312-6058.	
	Sincerely,	
	 Suzanne J. Bohan Director, NEPA Compliance and Review Program Office of Ecosystems Protection and Remediation	
cc by email: Melinda Urban, Federal Highway Administration David Singer, Colorado Department of Transportation		

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter <b>Document Number:</b> SF-3	<b>Name:</b> Department of Interior <b>City, Zip Code:</b> Denver, 80225	
<p></p> <p>United States Department of the Interior OFFICE OF THE SECRETARY Office of Environmental Policy and Compliance Denver Federal Center, Building 67, Room 118 Post Office Box 25007 (D-108) Denver, Colorado 80225-0007</p> <p>IN REPLY REFER TO 9043.1 ER-12/0485</p> <p>Mr. John Cater Division Administrator Federal Highway Administration Colorado Division 12300 West Dakota Avenue, Suite 180 Lakewood, CO 80228</p> <p>Dear Mr. Cater:</p> <p>Thank you for the opportunity to review the Environmental Assessment and Draft Section 4(f) Evaluation for the Twin Tunnels Project, Clear Creek County, Colorado. The Department of the Interior (Department) has reviewed the document, and hereby submits these comments to you as an indication of our thoughts regarding this project.</p> <p><b>FISH AND WILDLIFE RESOURCES</b></p> <p><b>A</b> The U.S. Fish and Wildlife Service's (USFWS) Colorado Field Office has already provided comments on the I-70 Twin Tunnels project regarding compliance with the Endangered Species Act directly to the Colorado Department of Transportation. The USFWS has been involved with project as a member of various technical teams since the beginning.</p> <p><b>SECTION 4(f) EVALUATION COMMENTS</b></p> <p><b>B</b> We understand that a Preferred Alternative for this project has not been selected, in which case, we cannot concur that there is no feasible or prudent alternative to the Preferred Alternative selected in the document.</p> <p><b>C</b> For historic properties, we appreciate that you have coordinated with the Colorado State Historic Preservation Office (SHPO) and that they have concurred on a determination of adverse effect for the project. We understand that mitigation measures will be developed and documented in a revised Programmatic Agreement. We also appreciate that you have conducted tribal consultation.</p> <p><b>D</b> For parklands, we understand that there will be temporary use of two resources, the Scott Lancaster Trail and a planned game check area, both of which are under Clear Creek County</p>	<p></p> <p>August 9, 2012</p> <p><b>Response to SF-3</b></p> <p>A. Comment noted.</p> <p>B. The nomenclature "Preferred Alternative" was not used in the EA. Instead, the EA used the term "Proposed Action" to denote the preferred alternative. The Section 4(f) evaluation, presented in Chapter 4 of the EA, described the Proposed Action as the preferred alternative and presented avoidance alternatives to the Proposed Action in determining that no feasible or prudent alternatives to the Proposed Action exist. As noted in <a href="#">Chapter 7</a> of this Finding of No Significant Impact, the Proposed Action is the Preferred Alternative that has been selected.</p> <p>C. As noted in Section 4.1.3 of the FONSI, a <a href="#">supplement to the I-70 Mountain Corridor Section 106 Programmatic Agreement</a> was signed on September 5, 2012 and is included electronically in the appendix to this document. The supplement stipulates FHWA and CDOT's obligations for mitigating adverse effect to the Twin Tunnels historic property, completes the Section 106 process, and contributes to the Section 4(f) commitment to include all measures to minimize harm in the Proposed Action.</p>	

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Comments</b>	<b>Responses</b>
<p><b>Source:</b> Letter      <b>Name:</b> Department of Interior (continued)</p> <p><b>Document Number:</b> SF-3      <b>City, Zip Code:</b> Denver, 80225</p> <p>Mr. John Cater      2</p> <p><b>D</b> jurisdiction. We appreciate that you have sought and received concurrence from Clear Creek County on the Section 4(f) <i>de minimis</i> finding.</p> <p><b>E</b> In conclusion, until there is a Preferred Alternative and a signed Programmatic Agreement, we cannot concur that there is no feasible or prudent alternative to the Preferred Alternative selected in the document, and that all measures have been taken to minimize harm to these resources.</p> <p>We appreciate the opportunity to review this document. Should you have questions about the Section 4(f) Evaluation comments, please contact Cheryl Eckhardt, Environmental Compliance Specialist, National Park Service, Intermountain Region at 303.969.2851.</p> <p>Sincerely,</p>  <p>Robert F. Stewart Regional Environmental Officer</p> <p>cc: SHPO CO – Edward Nichols (ed.nichols@chs.state.co.us) DOT CO – Timothy J. Harris, Anthony R. DeVito (<a href="mailto:Anthony.Devito@dot.state.co.us">Anthony.Devito@dot.state.co.us</a>)</p>	<p><b>Response to SF-3 (continued)</b></p> <p>D. <u>Section 4.6.2</u> of the Twin Tunnels Section 4(f) Evaluation documents the temporary use of the Scott Lancaster Memorial Trail and the Game Check Area Park (planned). No <i>de minimis</i> impacts are noted for these park properties and therefore, no concurrence was sought or obtained from Clear Creek County. However, CDOT has coordinated closely with Clear Creek County, and CDOT and Clear Creek County have entered into an <u>Intergovernmental Agreement</u>, which, among other issues, documents the agreement about the scope of restoration efforts for the temporary use of these recreation resources.</p> <p>E. As noted in response to your previous comments (SF-3-B and SF-3-C), CDOT and FHWA have selected a preferred alternative and executed a supplement to the I-70 Mountain Corridor Section 106 Programmatic Agreement. As stated in <u>Section 6.2</u> of the FONSI, FHWA has made a determination that no feasible or prudent alternative to the permanent use of the Twin Tunnels historic property and the temporary uses of the two recreation properties exists.</p>

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments**

<b>Source:</b> Letter	<b>Name:</b> David Nickum, Colorado Trout Unlimited
<b>Document Number:</b> ORG-01	<b>City, Zip Code:</b> Golden, 80401

David Nickum  
Executive Director  
Colorado Trout Unlimited



August 1, 2012

David Singer  
Colorado Department of Transportation  
425C Corporate Circle  
Golden, CO 80401

**Re: Comments on the Environmental Assessment for the Twin Tunnels Project  
I-70 Mountain Corridor Project**

Dear Mr. Singer:

Colorado Trout Unlimited (CTU) has reviewed the Environmental Assessment and Section 4(f) document prepared by the Federal Highway Administration (FHWA) and Colorado Department of Transportation (CDOT). CTU has been an active participant in the I-70 Corridor Project, as well as the Twin Tunnels site specific studies. We have participated in the PLT and SWEET committees for Twin Tunnels.

As a member of the Collaborative Effort we participated in the development of the Preferred Alternative, which provided for the Twin Tunnels project. While CTU continues to support the Twin Tunnels Project that support is based on an assumption that planning for the project will afford reasonable protection for the environment and that any impacts would be mitigated. Unfortunately, this Environmental Assessment still leaves doubts whether impacts identified in the document will be adequately mitigated. The deficiencies in this Environmental Assessment can be summarized around several key issues. They include:

- Environmental Impacts are present that are not adequately mitigated
- Other Areas of Concern

**Environmental Impacts are present that are not adequately mitigated**

Section 3.11 refers to a Sediment Control Action Plan (SCAP) as one of the commitments available to project managers to address potential impacts. But, at the time this EA was released that SCAP was still a draft study which could change. An unapproved draft plan cannot be used as mitigation. CDOT should either complete the SCAP before completion of this EA or discontinue referring to it as a policy document. The EA discusses impacts to and mitigation for aquatic resources. But CTU has significant concerns regarding the analysis presented. We agree that there is a self-sustaining population of brown trout supplemented by stocked rainbow trout. And we agree there are populations of other species typical in a mountain stream. However, we are concerned that CDOT is yet to conduct a redd survey to identify key spawning

*Trout Unlimited: America's Leading Coldwater Fisheries Conservation Organization*  
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PHONE: (303) 440-2937 FAX: (303) 440-7933 EMAIL: dnickum@tu.org

**Responses****Response to ORG-01**

A. Regarding reference to the draft Clear Creek Sediment Control Action Plan (SCAP), CDOT agrees. The draft SCAP was not intended to be used as a commitment document for the Twin Tunnels project. [Section 4.2.2](#) of this FONSI clarifies that the SCAP is currently under development but has not been finalized. Because the Twin Tunnels project was designed before the SCAP was completed, CDOT referred to the draft SCAP for appropriate water quality treatment feature locations and Best Management Practices (BMPs), and developed these features specific to the Twin Tunnels project. These features will be implemented as part of the Twin Tunnels project and incorporated into the SCAP when it is finalized, as part of the adaptive management for the Twin Tunnels project. This clarification is reflected in the water quality mitigation commitments listed in [Table 3-1](#) of this FONSI (originally included in Appendix A of the EA).

B. In September 2012, Colorado Parks and Wildlife (CPW) conducted a preliminary survey for trout spawning habitat in Clear Creek in the vicinity of the proposed stream crossings west of the Hidden Valley Interchange. The preliminary survey determined that the area of the proposed stream crossings is too deep to support brown trout spawning and lacks a cobble/pebble substrate. An area several hundred feet downstream of the proposed crossings contains some elements suitable for spawning. In the fall of 2012, the Colorado Parks and Wildlife (CPW) will conduct surveys of trout spawning areas within the entire reach of Clear Creek potentially affected by project construction, including the stream crossing, bridge construction, retaining walls, and the Portal to Portal Access Road. Prior to conducting construction activities near Clear Creek, CDOT, in coordination with CPW, will evaluate potential impacts associated with construction activities in and around Clear Creek and implement appropriate BMPs to reduce impacts to trout species and habitat during construction. In addition, as part of its [Intergovernmental Agreement](#) with Clear Creek County, CDOT also has committed to stream enhancements upstream of Hidden Valley that will permanently improve aquatic habitat, including spawning areas, in the Twin Tunnels area after construction is complete.

CDOT disagrees that, even if spawning occurred in the direct area of the stream crossings, the implementation of the stream crossings could result in the loss of a whole class of trout in Clear Creek since spawning occurs throughout Clear Creek and populations are typically sustained by recruitment from fry (recently hatched trout) upstream. The information regarding the CPW surveys and mitigation commitments is reflected in [Section 4.2.5](#) and the aquatic resources section of [Table 3-1](#) in this FONSI.

A

B

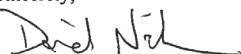
**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter	<b>Name:</b> David Nickum, Colorado Trout Unlimited (continued)	<b>Response to ORG-01 (continued)</b>
<b>Document Number:</b> ORG-01	<b>City, Zip Code:</b> Golden, 80401	
B (cont)	habitats, raising the question of how they'll be able to avoid it. This is particularly important in the areas where bridges will be replaced. CDOT has advised that a stream crossing will be needed (twice) to accommodate bridge construction. CDOT has correctly noted that spawning and incubation for brown trout is an approximate 6 month process. Brown trout start that process in September and end it in late March. Section 2.9 shows that bridge construction is likely to occur between December 2012 and March 2013 which coincides with trout incubation. If there are redds in the creek in the vicinity of the bridges (and the stream crossing) then there's good potential for losing a whole class of trout. CDOT needs to define how it will avoid this potentially significant impact.	C. After CPW's review of the crossing location and its assessment that the area does not provide suitable spawning habitat, CDOT has determined that no direct impact to spawning areas will occur from installation of the stream crossings. However, CDOT agrees that installing the crossings could result in short-term increases in sedimentation and has committed to installing and monitoring the effectiveness of BMPs to reduce sediment transport from construction areas. The sedimentation and any resultant impacts to redds (should redds exist downstream of the crossing area) from the increased sedimentation will be temporary. After removal of the stream crossings and any BMPs to limit sediment transport downstream, the following spring runoff event will flush any built up sediment as happens each spring. As such, these impacts are considered temporary.
C	Section 3.11 makes an argument that there are no permanent impacts to the Creek but that conclusion isn't validated by the evidence. The analysis is flawed because it fails to accurately display the effects from installing and removing the temporary stream crossing. Installing the crossing will result in short term increases in sedimentation that would (1) be damaging to resident fish through scouring and (2) have longer term effects if redds are found in the area.	D. CDOT is obligated to mitigate impacts incurred by CDOT projects and respectfully disagrees that we have refused to mitigate impacts caused by CDOT projects. For the impacts identified for the Twin Tunnels project, CDOT has committed to specific mitigation measures as outlined in <b>Table 3-1</b> of this FONSI and has gone "above and beyond" with planned stream enhancements to be implemented in coordination with the restoration of CR 314 and the construction access road. CDOT will continue to coordinate with the SWEEP committee and other stakeholders, as appropriate, to not only mitigate impacts but identify and pursue opportunities to enhance aquatic habitat through these collaborative partnerships, such as with the stream enhancements. CDOT is open to partnering with others to leverage and expand benefits from our planned stream enhancements.
D	Section 3.11 says that CDOT will replace habitat damaged during development.  <i>"Fish habitat will be restored and replaced using photo documentation to help return these areas to previous conditions."</i>	E. As noted in response to your previous comment (ORG-01-A), clarification regarding specific water quality treatment features and BMPs developed for the Twin Tunnels project and their incorporation into the SCAP when it is finalized are reflected in the mitigation commitments in <b>Table 3-1</b> of this FONSI.
E	While we applaud CDOT's stated willingness to mitigate impacts it is causing, in previous meetings CDOT has adamantly refused to mitigate impacts. We assume this statement is a change in policy and CDOT is willing to discuss what its mitigation responsibilities are. We also think there are better ways to address this problem. During the Programmatic EIS process a Streams, Wetlands, Ecological Enhancement Program (SWEEP) Memorandum of Understanding made provisions for improving aquatic habitat through collaborative partnerships. Under the agreement money from impact mitigation can be leveraged against other sources to build a partnership-based project that maximizes benefits to the environment. CTU would like to see this project move in that direction.	
	Table 3-30 addresses mitigation for aquatic species. The first item in the table says:  <i>"CDOT will implement the adaptive mitigation identified in the Clear Creek Sediment Control Action Plan, which allows for flexibility in the number, sizing, type, and locations of BMP structures, while controlling all drainage entering Clear Creek".</i>	
	As indicated elsewhere, as of the date of this EA the SCAP was still hasn't been finalized and hasn't been adopted as agency policy. It's inappropriate to reference this draft document as a mitigation tool.	

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter	<b>Name:</b> David Nickum, Colorado Trout Unlimited (continued)	<b>Response to ORG-01 (continued)</b>
<b>Document Number:</b> ORG-01	<b>City, Zip Code:</b> Golden, 80401	
F	<p>Table 3-31 identifies potential mitigation for short term impacts, i.e. impacts from construction. An item emphasizing the temporary stream crossing is shown with a commitment to coordinate with the Colorado Division of Parks and Wildlife (CPW). We believe that kind of mitigation without boundaries isn't enough. The temporary crossing is one of the most potentially significant impacts to aquatic resources. There needs to be contingencies, particularly if redds or significant populations of fish are present in that area. Will CDOT abandon the idea of a temporary crossing, or will they try to convince CPW that such losses are within acceptable limits? There is a SWEEP committee for this project and any activity on the stream should be coordinated with that group, as well as CPW.</p> <p><u>Other Areas of Concern</u></p> <p>Section 2.1 of the EA describes the project which provides the basis for impact analysis. Included is a discussion of the need to replace a bridge on the eastern edge of the project area. What isn't included is any discussion of how that replacement will take place. This is important because, depending on the methods chosen, there could be significant short term impacts to the environment. We were advised on June 7 that CDOT is considering constructing a stream crossing near the bridge in two segments. The crossing will use large culverts to bypass the creek and then dump gravelly material over the culverts to create the roadbed. As this feature will likely affect water quality and aquatic life in the creek, it needs to be fully described in the EA.</p> <p>H</p> <p>Section 2.9 identifies the need to re-construct a portion of US 40 which will serve as part of the detour. However, the section doesn't describe the need for a temporary haul road essentially portal to portal. As in the case of the stream crossing, this haul road has the potential to cause significant damage to wetlands and Clear Creek. FHWA must incorporate a description of the haul road into the final EA.</p> <p>I</p> <p>Trout Unlimited is very concerned about the proposals in the EA and their possible effect on aquatic resources. Fortunately, there is a clear and reasonable course for addressing these concerns and resolving debate over impacts: the issues can be resolved using the procedures identified in the SWEEP MOU. SWEEP was established as a means of addressing likely impacts to aquatic resources and to provide a means to improve an existing aquatic ecosystem. Using the power of public/private partnerships we have an opportunity to not only mitigate the impacts of the project but also find a way to enhance a river back to a more natural state, helping to reduce the historic impacts on it. We urge CDOT and FHWA to embrace that approach, and to ensure that the impacts of this project are thus appropriately mitigated.</p>	<p>F. As noted in response to your previous comment (ORG-01-B), suitable trout spawning habitat does not exist in the area of the stream crossing so redds will not be directly affected by the crossings. If the CPW follow-up survey finds that trout spawning occurs downstream of the crossing, the contractor will develop appropriate BMPs, in coordination with CPW and the SWEEP committee, and implement these BMPs to minimize indirect impacts to spawning areas from sedimentation. This information is reflected in <a href="#">Section 4.2.5</a> and the aquatic resources section of <b>Table 3-1</b> in this FONSI.</p> <p>G. Bridge replacements are common elements of transportation projects and are routinely accomplished with no significant environmental effects. Construction methods for bridge replacements are not typically determined until after projects are fully designed, well after the NEPA process has been completed. However, because contractor has been engaged early for the Twin Tunnels project and the contractor recommends stream crossings be employed for bridge demolition and construction, environmental impacts were considered. <a href="#">Table 3-31</a> in the EA addresses potential impacts and mitigation for construction of the stream crossings. As part of the coordination with CPW committed to in the EA, CPW will conduct surveys of trout spawning areas within the entire reach of Clear Creek potentially affected by project construction, including installing and removing the stream crossings, bridge construction and demolition, retaining wall construction, and construction and operation of the portal-to-portal construction access road. As noted in response to your previous comments, the preliminary survey confirmed that the crossing area is not suitable for spawning. The FONSI has included updated information about potential spawning impacts in <a href="#">Section 4.2.5</a>.</p> <p>H. The <a href="#">Twin Tunnels Portal to Portal Access Road Companion Report</a> issued with the EA describes the proposed haul road, anticipated impacts, and mitigation. <a href="#">Section 2.2</a> of this FONSI clarifies that the construction access road is part of the Proposed Action. <a href="#">Section 4.1.1</a> of this FONSI notes that CDOT and FHWA will move forward with the construction access road, and the FONSI integrates the mitigation commitments outlined in the Companion Report into the project's mitigation commitments, as presented in <b>Table 3-1</b> of this FONSI.</p> <p>I. As noted in response to your previous comment (ORG-01-D), CDOT is planning stream enhancements as part of the Twin Tunnels project in coordination with the restoration of the game check area. The <a href="#">Intergovernmental Agreement</a> (IGA) between CDOT and Clear Creek County specifies stream channel improvements and provides a concept of the planned improvements; as details of the restoration and enhancements are refined, details of the IGA may also be refined. CDOT will continue to work with the SWEEP committee, Colorado Trout Unlimited, and other stakeholders, as appropriate, through the collaborative partnership set forth in the SWEEP Memorandum of Understanding (MOU).</p>

Sincerely,



David Nickum

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments**

<b>Source:</b> Public Hearing	<b>Name:</b> Gary Frey, Colorado Trout Unlimited
<b>Document Number:</b> ORG-02	<b>City, Zip Code:</b> Golden, 80401

REPORTER'S TRANSCRIPT OF PUBLIC HEARING  
HEARING DATE: Wednesday, July 25, 2012

Good evening. My name is Gary Frey. I'm speaking tonight on behalf of Colorado Trout, Limited, regarding the environmental assessment on the Twin Tunnels Project. We've been an active participant in planning for part of the development, having been a member of the collaborative network which actually developed the Proposed Action, worked on several Proposed Actions project leadership teams and technical teams, and help in the development of the streams, wetlands, ecological enhancement program, the program that looked at aquatic resources.

We say that CTU supports the plan to expand the capacity of the Twin Tunnels and recognizes that it's consistent with the Proposed Action identified in the Programmatic EIS for I-70. That said, we are concerned about the potentially significant impacts to aquatic resources in the project area. The agencies, which are Colorado Department of Transportation and the Federal Highway Administration, correctly note that there is a self-sustaining population of brown trout in the project area. They also note that there will be short-term impacts from construction, mostly from sedimentation and changes in water quality, which CTU believes is also accurate.

A  
But the severity of those impacts is understated, and the mitigation offered is inaccurate to truly mitigate those impacts. As an example, the EA cites using a sediment control action plan that uses best management practices to minimize impacts from sedimentation. But this SCAP is still under development and only exists as a draft. It's highly unusual to reference an approved document as an agency policy for mitigation because there are no assurances that it will ever be completed. Further, the BMPs cited aren't identified in the body of the EA, making it difficult to determine their actual effectiveness. The agency should either complete the SCAP or not rely on it as a mitigation tool.

**Responses****Response to ORG-02**

A. As noted in response to comment [ORG-01-A](#), the Clear Creek Sediment Control Action Plan (SCAP) was not intended to be used as a commitment document for the Twin Tunnels project. [Section 4.2.2](#) of this FONSI clarifies that the SCAP is currently under development but has not been finalized. Because the Twin Tunnels project was designed before the SCAP was completed, specific water quality treatment features or other BMPs were developed for the Proposed Action specific to the Twin Tunnels project. These features will be implemented as part of the Twin Tunnels project and incorporated into the Clear Creek SCAP when it is finalized. This clarification is reflected in the recreation and water resources mitigation commitments listed in [Table 3-1](#) of this FONSI (originally included in Appendix A of the EA).

*Continued on next page*

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Public Hearing	<b>Name:</b> Gary Frey, Colorado Trout Unlimited (continued)	<b>Response to ORG-02 (continued)</b>
<b>Document Number:</b> ORG-02	<b>City, Zip Code:</b> Golden, 80401	F. As noted in response to comment <a href="#">ORG-01-B</a> , in September 2012, Colorado Parks and Wildlife (CPW) conducted a preliminary survey for trout spawning habitat in Clear Creek in the vicinity of the proposed stream crossings west of the Hidden Valley Interchange. The preliminary survey determined that the area of the proposed stream crossings is too deep to support brown trout spawning and lacks a cobble/pebble substrate. An area several hundred feet downstream of the proposed crossings contains some elements suitable for spawning. In the fall of 2012, CPW will conduct surveys of trout spawning areas within the entire reach of Clear Creek potentially affected by project construction, including the stream crossing, bridge construction, retaining walls, and the Portal to Portal Access Road. Prior to conducting construction activities near Clear Creek, CDOT, in coordination with CPW, will evaluate potential impacts associated with construction activities in and around Clear Creek and implement appropriate BMPs to reduce impacts to trout species and habitat during construction. In addition, as part of its Intergovernmental Agreement with Clear Creek County, CDOT also has committed to stream enhancements upstream of Hidden Valley that will permanently improve aquatic habitat, including spawning areas, in the Twin Tunnels area after construction is complete. This information is reflected in <a href="#">Section 4.2.5</a> and the aquatic resources section of <b>Table 3-1</b> in this FONSI.
B	<p>Another area of significant concern is the installation of the stream crossings and the temporary haul road. Sedimentation is likely, and impacts could be severe given the time of year they'll occur. The agencies have admitted they don't know where spawning beds are and, hence, can't actively predict outcomes. An extensive survey of fishery habitat is needed before these actions are taken, and as I understand that. The agencies will be receiving a letter on CTU's other concerns regarding environmental impacts. All of the comments address or can be addressed without having to make major changes to the EA.</p>	C. As noted in response to comments <a href="#">ORG-01-I</a> and <a href="#">ORG-01-D</a> , CDOT is planning stream enhancements in coordination with the restoration of the game check area. The <a href="#">Intergovernmental Agreement</a> (IGA) between CDOT and Clear Creek County specifies stream channel improvements and provides a concept of the planned improvements; as details of the restoration and enhancements are refined, details of the IGA may also be refined. CDOT will continue to work with the SWEEP committee, Colorado Trout Unlimited, and other stakeholders, as appropriate, through the collaborative partnership set forth in the <a href="#">SWEEP Memorandum of Understanding</a> (MOU).
C	<p>I'd like to kind of shift gears a little bit here. There's a better way. Those of us who either live in the basin or use the creek realize that this stream, this unique stream, provides a wide array of opportunities. Fishing, rafting, and other recreational pursuits, to water supply, and habitat with a diverse population of aquatic and terrestrial species are just a few of the benefits the creek provides. We also know it's a stressed stream, having suffered the consequences of industrial development, primarily mining, residential expansion and interstate highway development. Realizing this, CTU worked with our colleagues at the Clear Creek Watershed Foundation, which is based right here in Idaho Springs, and the agencies to develop the SWEEP program which is embodied in a memorandum of understanding, an MOU. The foundation of this program is to address the aquatic issues in a way that uses the power of private and public partners to expand our limited resources, not just make attempts to sustain the status quo.</p>	
	<p>We all recognize that development brings environmental impact to our resources. SWEEP's goal is to not just fix those impacts, but to improve the resource, leveraging the cost of mitigation against other sources of funding to actually enhance the situation.</p>	
	<p>We are proposing that agencies embrace the concept of SWEEP -- they are signators to the MOU -- and support development of a stream restoration project in the project area. Such an effort or plan was started at the January 19, 2012 meeting of the SWEEP committee.</p>	

*Continued on next page*

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Public Hearing	<b>Name:</b> Gary Frey, Colorado Trout Unlimited (continued)	<b>Response to ORG-02 (continued)</b>
<b>Document Number:</b> ORG-02	<b>City, Zip Code:</b> Golden, 80401	D. CDOT continues to follow the I-70 PEIS SWEEP MOU and supports the development of stream restoration projects in the project area. CDOT recognizes the recreational and fishery resources provided by Clear Creek. The existing <u>Intergovernmental Agreement</u> between CDOT and Clear Creek County (signed in June 2012) details CDOT's commitments to Clear Creek channel improvements, along with other landscape and riparian improvements, and assigns financial commitments to those improvements, providing the startup plan upon which others, such as Trout Unlimited, could participate.
<b>D</b>  A mechanism for getting the job done already exists. An intergovernmental agreement has recently been signed between CDOT and Clear Creek County. The idea is multi-purpose but references the need for stream restoration. The only element missing is a startup plan to allow the process to proceed. The startup money could be identified as the reasonable value of the impacts caused by project development.  The agency should be immediately begin negotiations with the county to make the necessary changes to the IGA which will allow this project to happen.  On a more personal note, as Trout Unlimited and the water foundation, we've developed three projects to the river to enhance fishing, and a fourth one has been there. Those have a value of approximately a million dollars. We believe that Clear Creek is recreational and a fishery resource. And obviously, we get a little upset when others come along and want to impact that without doing their fair share. And I know that the agencies want to do their fair share. We'll gladly participate with those parties and provide any assistance if us, as an NGO, can. Thank you for the opportunity to comment.		

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Comment Sheet	<b>Name:</b> Marilyn Anderson
<b>Document Number:</b> LO-01	<b>City, Zip Code:</b> Idaho Springs, 80452

**I-70 Twin Tunnels Public Hearing**  
**July 25, 2012**  
**Comment Form**

Please provide any comments you have about the I-70 Twin Tunnels Project. Your input is valuable to this project and will be evaluated by CDOT and FHWA in the decision making process. Please consider the questions listed as you prepare your comments. Comments may also be submitted at <http://www.coloradodot.info/projects/i70twintunnels>.

Name: Marilyn Anderson

Address: Box 1183 City: T.S. CO Zip: 80452

Organization: City Council Phone Number: 303-567-4652

Mark box if you do not wish to have your address published in the final Decision Document

**COMMENTS**

**Do you have any comments on the project's Purpose and Need or CDOT's Proposed Action?**

A This project is needed definitely! We just hope there will be no "tolls" after this project is completed.

B There is presently a flashing yellow light on the west side of the eastbound, warning of sharp curves. Hopefully that will be removed so I now feel that when people see it they automatically step on their brakes, and of course, that slows down traffic

C Questions to Consider:

- Do you think this project is necessary? Will it provide benefits to you?
- Is the Proposed Action the right solution?
- Do you have comments about the way the Proposed Action was developed?
- What do you think of the potential design variations?
  - Does the 50-foot or 56-foot roadway width make more sense?
  - Do you think we should align the new lane toward the creek or toward the median?
  - Should the new lane operate as a managed lane during peak periods?
- What do you think about CDOT doing nothing in the area (The No Action)?

**Response to LO-01**

- A. Comment noted.
- B. As described in Section 2.1.2 of this FONSI, CDOT will operate the new third lane as a managed lane and charge a fee for use of the new lane only during peak periods of congestion to maintain a reliable travel time in the managed lane. No fees would be imposed for travel in the two existing general purpose lanes. Section 3.2, Social and Economic Resources, in the EA concluded that the charge for use of the managed lane is not expected to affect local or regional travelers negatively because it will operate only during peak periods, which are often avoided by local travelers, and the two general purpose lanes will remain free of charge. When the managed lane is operating, all vehicles in the lane will pay a fee—likely between \$1 and \$3—and trucks will pay an additional fee or surcharge. Outside of peak travel periods when I-70 is congested, the managed lane will operate with no fees.
- C. The flashing yellow sign warns motorists of upcoming curves. This warning is especially important for trucks, which have increased rollover risks when traveling too fast through curves. Although the Proposed Action addresses the most problematic low-speed curve west of Hidden Valley, the area east of the tunnels will remain curvy, and the sign will continue to be needed. Slowing through the tunnel does occur but as described in Section 1.4.2 of the EA, other factors cause of slowing of travel speeds through this segment of I-70. Motorists slow to safely navigate tight curves, and motorists slow on the approach to the tunnels due to the real and perceived narrowing of the tunnels. The tunnels have lower capacity than surrounding sections of the highway, as illustrated in Figure 1-8 in the EA, creating congestion during peak periods. The Proposed Action implements a consistent three-lane roadway width and design speed through the tunnel and the project area and will increase capacity by 62 percent through the tunnel, from 3,200 vehicles per hour (vph) up to 5,500 vph.

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Comment Sheet	<b>Name:</b> Marilyn Anderson (continued)
<b>Document Number:</b> LO-01	<b>City, Zip Code:</b> Idaho Springs, 80452



Do you have any comments on the project's environmental impacts?

D [ *Thanks for being so considerate for the bicyclists  
To keep them out of the traffic lanes* ]

**Questions to Consider:**

- Do you have concerns about specific environmental impacts?
- Do you have concerns about construction impacts?
- Will the mitigation proposed be effective in reducing impacts?
- Do you have any other ideas that we should consider for mitigation?

Do you have any other comments you would like us to consider before we move forward with a decision on the Proposed Action?

E [ *It would be best if blasting could be done  
after 8:00 p.m. to help eliminate issues such  
as falling rock on the highway and any delays* ]

Please mail comment forms to:

David Singer  
Colorado Department of Transportation  
425C Corporate Circle  
Golden, CO 80401

**Response to LO-01 (continued)**

D. Comment noted.

E. As described in [Section 3.1.6](#) in the EA (and clarified in [Section 4.2.1](#) of this document), CDOT will conduct blasting activities every 4 to 6 hours to expand the tunnel bore, and each blast could result in up to 30 minute delays in the westbound direction and less in the eastbound direction. Blasting during peak travel periods—Friday afternoons and early evenings, Saturday mornings, and Sunday afternoons and evenings—will be limited to the extent possible. However, limiting blasting only to certain times of the day, such as after 8:00 pm, would extend the time required for the tunnel expansion and result in longer closure of the eastbound I-70 lanes through the tunnel and use of the detour on County Road (CR) 314.

As described in [Section 3.17, Geology](#), in the EA and **Table 3-1** of this FONSI, CDOT has committed to measures to mitigate the risks of rockfall hazards to public safety during construction and tunnel widening. Specifically, CDOT will incorporate permanent rockfall mitigation during construction and in the design of the new tunnel portals; CDOT will evaluate the rock mass for the likelihood of rockfall occurring, prior to blasting; and CDOT will use proven techniques, such as rockfall catchments, mesh, cable netting, fences, scaling, and blasting, to address rockfall hazards.

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter <b>Document Number:</b> LO-02	<b>Name:</b> Clear Creek County <b>City, Zip Code:</b> Georgetown, 80444	
<p> <b>Clear Creek County</b> POST OFFICE BOX 2000 GEORGETOWN, COLORADO 80444 TELEPHONE: (303) 569-3251 • (303) 679-2300</p> <p>August 2, 2012</p> <p>Mr. David Singer Colorado Department of Transportation 425-C Corporate Circle Golden, CO 80401</p> <p>Dear Mr. Singer:</p> <p>Clear Creek County submits the following comments on Twin Tunnels Environmental Assessment (EA) and Section 4(f) Evaluation and Twin Tunnels Portal to Portal Access Road: Companion Report to the Twin Tunnels Environmental Assessment and Section 4(f) Evaluation.</p> <p>A</p> <p>1. Clear Creek County supports the Twin Tunnels project, concurs with the statement of purpose and need, and supports the proposed action. This project is the first Tier 2 endeavor to implement a portion of the specific highway improvements delineated as the Preferred Alternative in the Record of Decision for Programmatic Environmental Impact Statement for the I-70 Mountain Corridor. According to the ROD, these specific highway improvements must be completed prior to any other highway projects in the I-70 corridor, regardless of the outcome of the AGS study. The note to Section 3.20-4 needs be amended to be consistent with the ROD's inclusion of specific highway improvements in the triggers. The Twin Tunnels project is the first step in the adaptive management approach adopted in the ROD. The ROD employs adaptive management as a "deliberate iterative decision making process" to "limit the extent of the impacts because construction of transportation improvements is triggered incrementally when it is needed," not as a "philosophy" as mentioned in the EA. The EA should be amended to reflect the ROD's description of adaptive management.</p> <p>B</p> <p>Clear Creek County has expressed support for this project by using County funds to acquire necessary right of way for the project, permitting County Road 314 to be used as the interstate detour and permitting county lands to be modified to accommodate a haul road. Clear Creek County fully supports this project as a part of the I-70 Mountain Corridor Record of Decision.</p> <p>C</p> <p>2. The County appreciates the extensive use of the Context Sensitive Solutions process in the 6 step decision making and the formation of Project Leadership Teams (PLTs), Technical Teams (TTs) and Issue Task Forces. The Twin Tunnels project is the first construction project to use the CSS process in the corridor.</p> <p style="text-align: center;">1</p> <p><i>"Honoring Our Past, While Designing Our Future"</i></p>	<p><b>Response to LO-02</b></p> <p>A. <u>Section 4.2.4</u> of the FONSI provides a clarification to the note you reference on <u>page 3.20-4</u> of the EA, clarifying that the specific highway improvements must be implemented before other highway improvements regardless of the outcome of the Advanced Guideway System (AGS) feasibility study. <u>Chapter 2</u> in the EA describes the Twin Tunnels project as one of the specific highway improvements that must be completed before other highway improvements can occur in the I-70 Mountain Corridor.</p> <p>The adaptive management approach is a key component of the <u>I-70 PEIS Preferred Alternative</u>, as noted in your comment and reinforced by the EA. <u>Chapter 1</u> of the EA describes how the Twin Tunnels project supports the adaptive implementation of the I-70 PEIS Preferred Alternative, focusing on an immediate problem in response to transportation conditions and needs in the Corridor. <u>Section 2.7</u> of the EA discusses how the Twin Tunnels project was prioritized consistent with the I-70 PEIS Preferred Alternative adaptive management approach. <u>Section 2.8</u> of the EA describes in detail how the Twin Tunnels project relates to the ultimate improvements approved by the I-70 PEIS Record of Decision. CDOT committed to the adaptive management approach in the I-70 PEIS Record of Decision and will continue to fulfill this commitment on future projects in the Corridor.</p> <p>The use of the word "philosophy" in <u>Section 1.7</u> of the EA is interchangeable with "approach" and does not change or lessen the commitment to adaptive management described in the I-70 PEIS Record of Decision.</p> <p>B. Comment noted.</p>	

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments**

	<b>Responses</b>
	<b>Response to LO-02 (continued)</b>
C	<p>C. Comment noted.</p> <p>D. <a href="#">Section 3.2, Social and Economic Resources</a>, of the EA acknowledges the broad I-70 PEIS conclusion that economic losses during construction could negatively affect businesses but concludes for the Twin Tunnels project the effects of business losses would be minor because traffic projections indicate only 4 percent of current vehicle traffic will divert to other routes, one of which is a local road through Idaho Springs. Additionally, the EA concludes that businesses in Idaho Springs and Clear Creek County will benefit from local construction spending by workers and the purchase of local goods and services for construction.</p>
D	<p>E. The EA was in production at the time the <a href="#">Intergovernmental Agreement</a> between CDOT and Clear Creek County was signed. <a href="#">Section 4.1.4</a> of this FONSI describes the commitment to restore the game check area in a manner that supports Clear Creek County's Greenway system per the Intergovernmental Agreement between CDOT and the county. Additionally, the mitigation measures in Appendix A of the EA regarding restoration of the game check area have been consolidated into a single mitigation measure in <b>Table 3-1</b> of this FONSI, committing to restoration of the game check area per agreements listed in the Intergovernmental Agreement.</p> <p><a href="#">Section 4.2.1</a> of the FONSI clarifies that the specific highway improvements of the I-70 PEIS Preferred Alternative include the bike trail and frontage road from Idaho Springs to US 6, along with six-lane capacity between the Twin Tunnels and Floyd Hill and curve modifications east of the Twin Tunnels.</p>
E	
F	<p>F. Your comment is noted. The <a href="#">Section 106 Programmatic Agreement supplement</a> has now been executed, and a copy is included electronically in the appendix to this document. Implementing the supplement to the Section 106 Programmatic Agreement is a mitigation commitments included in the historic resources of <b>Table 3-1</b> of this FONSI. <b>Table 3-1</b> reiterates the intent and clarifies the scope of fencing and protection of locally important sites during construction.</p>

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

Source: Letter Document Number: LO-02	Name: Clear Creek County (continued) City, Zip Code: Georgetown, 80444	
G	<ul style="list-style-type: none"> <li>3.7 Visual Resources: The EA acknowledges persistent, permanent impacts to these resources, yet there are no mitigation commitments. The statements in 3.7-7 that "CDOT will avoid and minimize negative adverse impacts to the visual resources in incorporating the I-70 Mountain Corridor Aesthetic Guidelines into the project design," and "CDOT has committed to the use of these criteria for the design of the project" are vague and confuse CSS criteria and guidelines. No record exists in the EA of the lengthy and detailed discussions between Clear Creek County and CDOT regarding the CSS Engineering Design Criteria specific to retention of the median and of Guidelines specific to the appearance of both cut and fill walls. Rather, the EA's statement that the, "Lead agencies will refer to the Aesthetic Design Guidelines and create a site-specific Tier 2 Aesthetic Plan and Lighting Plan mitigation strategies," suggests those discussions were not meaningful. The EA should acknowledge the discussions conducted pursuant to the CSS process, pledge to implement a visual resources mitigation plan based upon the consensus reached through that process, and as described in Section 5 of these comments, describe the application of specific mitigation features to specific project components.</li> </ul>	<p><b>Response to LO-02 (continued)</b></p> <p>G. <a href="#">Section 5.3</a> of the FONSI describes the ongoing involvement of the Project Leadership and new Technical Team in the design and construction details, and the EA acknowledged the contributions of stakeholders in developing the Proposed Action concept during the NEPA life cycle phase (<a href="#">Section 5.1.1</a> and <a href="#">Appendix A</a> of the EA). CDOT's commitment to following <a href="#">the I-70 Mountain Corridor Aesthetic Guidance</a> has been demonstrated in the discussions during the design and construction life cycles. Discussions specific to the alignment shift into the median east of the Hidden Valley Interchange are documented in <a href="#">Section 2.1.3</a> of this FONSI, as noted in response to your previous comment (LO-02-C). Discussions regarding the appearance of cut and fill walls are being tracked as part of the final design life cycle phase to be incorporated into the final design. Additionally, the <a href="#">Intergovernmental Agreement</a> between CDOT and Clear Creek County defines the commitment to follow the aesthetic guidance regarding cut and fill walls.</p> <p>H. CDOT acknowledges the commitment to construct final aesthetic treatment on walls on CR 314 is documented in <a href="#">the Intergovernmental Agreement</a> between CDOT and Clear Creek County. <a href="#">Section 4.2.1</a> of this FONSI clarifies that Phase 3 of the construction sequence includes installation of fascia on CR 314 retaining walls.</p> <p>I. Comment noted.</p> <p>J. Comment noted.</p> <p>K. Fencing described in <a href="#">Table 3-29</a> of the EA follows the length of detour that coincides with old US 40 and the old game check area; it is intended to keep bighorn sheep and other terrestrial wildlife from crossing the detour road during its operation. This fencing will originate near the entrance of the eastbound tunnel and extend along old US 40 to the portal to portal construction access road. Fencing the portal to portal access road was considered by CDOT and Colorado Parks and Wildlife (CPW), as described in <a href="#">Appendix B</a> of the Portal to Portal Access Road Companion Report: "...Fencing adjacent to the access road was discussed as one possible mitigation measure. It was noted that money would [be] better spent fencing the north side of I-70 adjacent to the west bound lanes (east of the Twin Tunnels) where in the last five years (2006 through May 2012) three bighorn sheep have been killed and recovered from this location." Based on this discussion, the low frequency of truck traffic on the access road (1 to 2 trucks per hour), and the low speed (a maximum of approximately 25 mph) of the construction trucks, fencing the construction access road is not recommended or included in the Proposed Action.</p> <p><b>Table 3-1</b> of this FONSI, <a href="#">measures 115 and 121 through 124</a>, provide specific measures to discourage bighorn sheep from being on the road, including removal of existing trees near the west portal of the west tunnel to improve visibility, temporary wildlife fencing along the north side of old US 40 (game check area), temporary lighting, placement of salt blocks on the north side of I-70 to keep sheep away from the detour and construction access road, and consideration of temporary fencing on the south side of the detour if an increase in animal/vehicle collisions is observed. These measures were deemed to be the most appropriate and applicable measures to reduce animal/vehicle collisions in the project area.</p>
H	<p>CDOT entered into an Intergovernmental Agreement with Clear Creek County that provides for use of County Road 314 as a detour during Twin Tunnels construction. That agreement includes commitments by CDOT to construct final aesthetic treatment of recently installed walls on County Road 314 during the Twin Tunnels project. This project component should be included in the EA, particularly in Section 2.9.3 and Figure 2-13 addressing restoration of the detour.</p>	
I	<ul style="list-style-type: none"> <li>3.8. Air Quality: The analysis is thorough and mitigation in keeping with required standards.</li> </ul>	
J	<ul style="list-style-type: none"> <li>3.9 Noise: Clear Creek appreciates the commitment to a sound wall to protect the Scott Lancaster Bridge and the Game Check recreational node. Regarding Mitigation Commitments for Temporary Noise Impacts (Table 3-27). We also appreciate the inclusion of hotel vouchers for residents during periods of nighttime construction.</li> </ul>	
K	<ul style="list-style-type: none"> <li>3.10 Terrestrial Wildlife: Clear Creek appreciates the commitment to the wildlife passage under the new highway bridge. The protection of the bighorn sheep and other terrestrial wildlife during construction is detailed in the EA but not in the Companion Report for the Portal to Portal Access Road. In Appendix B to that report, the meeting summary from the Colorado Parks and Wildlife meeting of May 16, 2012, seven mitigation measures for bighorn sheep were specifically mentioned. However, these</li> </ul>	

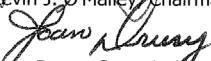
**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter <b>Document Number:</b> LO-2	<b>Name:</b> Clear Creek County (continued) <b>City, Zip Code:</b> Georgetown, 80444
K (con't)	appear to be measures that are permanent in nature and do not necessarily address the temporary haul road condition and the potential for animal-vehicle collisions along that route. The mitigation chart Table 7-1 in the Companion Report makes no mention at all of this issue. The only mitigation mentioned is in the EA Table 3-29. Please clarify this mitigation commitment regarding the impacts created by the haul road..
L	<ul style="list-style-type: none"> <li>3.11 Aquatic Resources: This is an area of major concern. Table 3.11-4 lists the "possibility of discussion about a spawning survey". A commitment must be made to that survey and to mitigation if damage during the spawning is unavoidable.</li> </ul>
M	<ul style="list-style-type: none"> <li>3.13: Vegetation and Noxious weeds: In Table 3-35, the EA indicates that an "Integrated Noxious Weed Management Plan" will be developed. It is not clear that that plan will include the disinfection procedures recommended in Appendix B of the Companion Report. The commitment to disinfection of construction vehicles should be clear.</li> </ul>
N	<ul style="list-style-type: none"> <li>3.16 Water Quality: Section 3.16.6 does not reference and incorporate the data on page 45 of Technical Memorandum 11, Appendix B: Twin Tunnels Discharge Analytical Results and Surface Water Discharge Permit Limits. It would be helpful to have comments from the SWEEP Committee in order to understand if additional mitigation should be identified for the potential permit limit exceedances for arsenic, lead, manganese, mercury and selenium.</li> <li>3.20 Cumulative Impacts: The list of foreseeable future actions does not include: (1) The expected replacement of the bridge at Kermitts; (2) The expected widening of the westbound lanes from Floyd Hill to the Twin Tunnels; (3) The expected widening of the westbound Twin Tunnels bore; (4) The completion of work on Colorado Boulevard in Idaho Springs;(5) Phase 2 work on County Road 314. Some of these future plans are already impacting the design of this project. All of these projects will certainly add to cumulative impact. The EA limits "reasonably foreseeable" transportation projects to "the funded components of the I-70 Mountain Corridor PEIS Preferred Alternative," whereas one of the EA's criteria for identifying "reasonably foreseeable" projects includes those that are "a foreseeable future phase of an existing project, or the project would likely occur within the 2035 planning horizon." Furthermore, several of the transportation projects listed in 3.20.3 are not "components of the I-70 Mountain Corridor PEIS Preferred Alternative." Please revise the EA accordingly.</li> </ul>
O	
	<p><b>Response to LO-2 (continued)</b></p> <p>L. CPW conducted a preliminary survey for trout spawning habitat in Clear Creek in the vicinity of the proposed stream crossings west of the Hidden Valley Interchange. The survey determined that the area of the proposed stream crossing area is too deep to support brown trout spawning and lacks suitable cobble/pebble substrate. An area several hundred feet downstream of the proposed crossing area contains some elements suitable for spawning. In the fall of 2012, the Colorado Parks and Wildlife (CPW) will conduct surveys of trout spawning areas within the entire reach of Clear Creek potentially affected by project construction, including the stream crossing, bridge construction, retaining walls, and the Portal to Portal Access Road. Prior to conducting construction activities near Clear Creek, CDOT, in coordination with CPW, will evaluate potential impacts associated with construction activities in and around Clear Creek and implement appropriate BMPs to reduce impacts to trout species and habitat during construction. In addition, as part of the <a href="#">Intergovernmental Agreement</a> with Clear Creek County, CDOT has committed to stream enhancements upstream of Hidden Valley that will permanently improve aquatic habitat, including spawning areas, in the Twin Tunnels area after construction is complete. This information is reflected in <a href="#">Section 4.2.5</a> and the aquatic resources section of <a href="#">Table 3-1</a> in this FONSI.</p> <p>M. The Integrated Noxious Weed Management Plan to be developed during final design will include procedures for removing soils and vegetation from construction equipment to minimize the introduction or spread of noxious weeds. The recommendation for disinfection procedures are to prevent the spread of invasive aquatic species/whirling disease. A mitigation has been added to <a href="#">Table 3-1</a> to require the contractor to wash equipment that has been used in another stream prior to use for the Twin Tunnels project to avoid the introduction of nuisance aquatic species.</p> <p>N. Section 3.18.4 (EA, <a href="#">pages 3.18-2 and 3.18-3; Table 3-44</a>, page 3.18-5) notes that adaptive mitigation will be used during design to eliminate daylight discharge, or to apply for any required discharge permits if needed. The exceedances noted were for surface water standards, if the tunnels discharge directly to surface water. Drainage from the expanded eastbound tunnel and drainage from the existing westbound tunnel will be intercepted so no daylighting or discharge to surface water occurs. Details of analytical methods, exceedances, and differences between surface and groundwater standards can be discussed with the SWEEP committee.</p> <p>O. The list of transportation projects in <a href="#">Section 3.20.3</a> of the EA includes currently funded transportation projects in the study area. The expected replacement of the bridge at the US 6 interchange at Kermitts, widening of the westbound tunnel and lanes from Floyd Hill to the tunnels, and Phase 2 work on CR 314 are not currently funded or listed in a current transportation plan and, therefore, are not included in the list of reasonably foreseeable future actions for the purposes of the cumulative impacts analysis. The note regarding components of the I-70 PEIS Preferred Alternative is a clarification that only funded components of the I-70 PEIS Preferred Alternative (Frontage Road Phase 1 and AGS feasibility study) are included in the list of reasonably foreseeable future projects.</p> <p><a href="#">Section 4.2.4</a> of the FONSI includes a clarification that improvements to Colorado Boulevard in Idaho Springs are added to the list of reasonably foreseeable future projects. The inclusion of this project does not change the conclusions of the cumulative impacts analysis.</p>

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

	<b>Source:</b> Letter <b>Document Number:</b> LO-02	<b>Name:</b> Clear Creek County (continued) <b>City, Zip Code:</b> Georgetown, 80444	
P		<ul style="list-style-type: none"> <li>Under Development Plans: At 3.20-3 the EA indicates Clear Creek County has received preliminary plans for a Renewable Energy Theme Park. Clear Creek County has not received such plans.</li> </ul>	<p><b>Response to LO-02 (continued)</b></p> <p>P. <a href="#">Section 4.2.4</a> of this FONSI clarifies that Clear Creek County has not received preliminary plans for a renewable energy theme park and that this project is removed from the list of reasonably foreseeable future projects. The removal of this project does not change the conclusions of the cumulative impacts analysis.</p>
Q		<ul style="list-style-type: none"> <li>Under Visual Resources: The impacts of the proposed action are not "minor", however, it should be noted many impacts are occurring in previously disturbed areas. The replacement of old highway riprap with walls that are vegetated at the base may be a visual improvement. It is an opportunity to mitigate some previous harm to the environment.</li> </ul>	<p>Q. The analysis of cumulative impacts to visual resources in the EA states that the Twin Tunnels Proposed Action would have minor to moderate visual impacts, as concluded in <a href="#">Section 3.7, Visual Resources</a>, in the EA. The more detailed description of these impacts in Section 3.7 of the EA states that the Proposed Action would cause visual impacts in an area of existing disturbance (the I-70 highway). The <a href="#">I-70 Mountain Corridor CSS Aesthetic Guidance</a> includes the design strategy of providing space for landscape screening treatments in front of walls visible to adjacent communities. The availability of space to provide this screening along the Clear Creek bank is being studied during final design. Additionally, the alignment shift into the median east of the Hidden Valley Interchange removes the majority of the retaining walls that were originally proposed along Clear Creek in this area.</p>
R		<p>4. Section 4(f). Although not formally required, Clear Creek County concurs with the de minimis finding for all historic properties with the exception of the Twin Tunnels themselves. A formal concurrence by Clear Creek County with the de minimis finding for the parklands and recreational resources owned by the County has not yet been completed. It is a remaining action item.</p>	<p>R. <a href="#">Chapter 6</a> of this FONSI clarifies that the Section 4(f) use of the two recreational properties (the Scott Lancaster Memorial Trail and the planned Game Check Area Park), as documented on <a href="#">page 4-15</a> of the EA, is a temporary use. Neither of these properties was determined to have a <i>de minimis</i> impact, and no further action or concurrence by the county is required regarding these properties.</p>
S		<p>It should be noted that the Section 4(f) analysis as stated in Section 4.4-1 is based on cross sections which would "widen the roadway entirely to the south, maintaining the existing inside (or left) shoulder of the existing travel lanes".</p>	<p>S. <a href="#">Chapter 6</a> of this FONSI clarifies that the realignment of the portion of the roadway east of Hidden Valley toward the median does not change the Section 4(f) uses identified, and no revision to the Section 4(f) evaluation is needed.</p>
T		<p>Minor editorial note: Under 4.10, page 4-30: JoAnn Sorensen is the Clear Creek County Land Use Director. Cindy Neely is a consultant for Clear Creek County.</p>	<p>T. <a href="#">Chapter 6</a> of this FONSI clarifies that Cindy Neeley is a consultant for Clear Creek County, not the Clear Creek County Land Use Director.</p>
U		<p>5. Public Involvement and Agency Coordination. The stakeholder involvement through the PLT, TT, and Issue Task Forces has been intensive and ongoing. The CSS process has been employed extensively to the credit of CDOT. A difficulty remains with the description of the CSS tools. Chapter 5.3 minimizes the role of the Engineering Design Criteria and the Aesthetic Guidelines. Appendix C confuses the overall Corridor criteria for design implementation and the seven specific engineering criteria. The groups of criteria should be separated into two tables. The Engineering criteria should be stated as they are not yet widely in practice. A table should be created to indicate the aesthetic guidelines which were applicable to the project and how they were applied. Any commitments to the guidelines should be reflected in 3.7, visual resources mitigations.</p>	<p>U. <a href="#">Section 5.3</a> of the EA describes how the CSS process was incorporated into the EA as a Tier 2 NEPA process (Phase 2 in CDOT's life cycle phases). <a href="#">Appendix C</a> to the EA describes how the Proposed Action, as developed in the NEPA phase, reflects the core values and design criteria. The I-70 Mountain Corridor CSS process, as described and committed to in Appendix A of the PEIS, notes that the CSS process applies to each of CDOT's life cycle phases. Aesthetic decisions require additional engineering, so the EA notes that as the design develops, CDOT will consider and reflect the I-70 Mountain Corridor Aesthetic Guidance. That process of evaluating and selecting aesthetic treatments is continuing as part of the design and construction phases. A tracking tool similar to Table 2 in Appendix C of the EA will be used in life cycle phases beyond the NEPA phase to track and document the application of the engineering design criteria and aesthetic guidance to the project in subsequent life cycle phases.</p>
V		<p>Although this Environmental Assessment process has not yet been concluded, work on final design is proceeding. There are likely to be footprint and/or design changes suggested. We recognize that the impact analyses for the EA were based on a footprint that included creek-side retaining walls between Hidden Valley and Kermitts. Please review all impact analyses for this area if a change in footprint is pursued. We recognize the value of the proposed footprint change and support the effort to pursue a design variance, but please note that it is also important to Clear Creek County that if the change creates a narrowed or</p>	<p>V. See next page.</p>

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Comments</b>	<b>Responses</b>
<p><b>Source:</b> Letter  <b>Document Number:</b> LO-02</p> <p><b>Name:</b> Clear Creek County (continued)  <b>City, Zip Code:</b> Georgetown, 80444</p> <p>V        (con't)</p> <p>eliminated median, this will be a temporary condition. When work on westbound I-70 proceeds, it is our expectation that the median will be restored. It is also our understanding that any change from any of the design or mitigation described in the EA will be reviewed in detail by the Project leadership Team prior to implementation.</p> <p>This is an expedited eight-month EA effort. CDOT staff and consultants should be proud of their extraordinary effort to keep the Twin Tunnels project on schedule. Hopefully, Clear Creek County's comments reflect our role as a critical, but willing, partner. We hope to see our suggestions incorporated in the Twin Tunnels Final EA and ROD.</p> <p>Sincerely,</p> <p>CLEAR CREEK BOARD OF COUNTY COMMISSIONERS</p>  <p>Kevin J. O'Malley, Chairman</p>  <p>Joan Drury, Commissioner</p>  <p>Timothy J. Mauck, Commissioner</p>	<p><b>Response to LO-02 (continued)</b></p> <p>V. <a href="#">Section 4.1.2</a> of this FONSI describes the differences in impacts between the alignment shift into the median east of the Hidden Valley Interchange and the alignment analyzed in the EA. The discussion includes visual, floodplain, riparian, and water quality impacts and concludes that the design modification presents a number of environmental benefits and does not introduce significant adverse impacts, and no supplemental environmental analyses or mitigations are required.</p> <p>Additionally, <a href="#">Section 2.1.3</a> of this FONSI describes the presentation to the public, Project Leadership Team, and Technical Team of the alignment shift into the median east of the Hidden Valley Interchange, public support for that design change, and the Project Leadership and Technical Teams' endorsement of the variance from the design criteria. Any future changes to the Proposed Action or mitigation measures presented in this FONSI will be reviewed with the Project Leadership Team and Technical Team during the design and construction life cycle phases of the CSS process for the Twin Tunnels project.</p>

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments**

<b>Source:</b> Email <b>Document Number:</b> LO-03	<b>Name:</b> Steve Cook, DRCOG <b>City, Zip Code:</b> Unknown
Staff of DRCOG offer the following comments regarding the Twin Tunnels Environmental Assessment (July 2012) and asks that they be clarified in or considered for the FONSI:	
A	Related to Table 2-1: As previously commented, we do not understand how the "Toll only new lane all the time" option will disproportionately impact local traffic.
B	To fairly present the options, denote clearly within text that the GP lanes under the managed lane scenario will operate worse than in the 3 GP scenario (e.g. Page 2-5 and on Page 3.1-4, we note travel in the two general purpose lanes would drop below 20 mph (not 30 mph) for much of the peak day).
C	Suggest the FONSI properly depict DRCOG's role with the transportation analysis. Text at the start of section 3.1.3 describes DRCOG as the "primary agency involved in the transportation analysis." That is not the case.
D	Suggest the FONSI expand or clarify the description of the comparative affects of the "without a managed lane" / 3 GPL scenario. The EA provides significant text regarding the managed lane scenario in the section titled, "What is the effect of the Proposed Action with a managed lane on mobility" but there is no comparable section on the 3 GPL scenario.
E	Clarify in the FONSI how a toll would really encourage carpooling as stated in section 3.1.6 of the EA. e.g. Are there modeling results based on an assumed toll to back up the statement? Or, clarify the expected level of the toll during peak days.
F	The FONSI should accurately depict and consider safety impacts. For example page 3.1-6 notes there is the potential for speed variation of the managed lane from the GP lanes. That operating characteristic is actually a given, as it is the primary reason for implementing the managed lane during peak periods. Weaving/maneuvering of vehicles at the pre-entry point to the managed lanes should also be noted.

**Responses****Response to LO-03**

- A. [Section 4.2.1](#) of this FONSI clarifies the information in Table 2-1 of the EA, stating that this scenario would result in underutilization of the managed lane and is an inefficient use of resources.
- B. [Section 4.2.1](#) of this FONSI notes a clarification to the EA text related to the travel in the two general purpose lanes, which will drop below 20 mph (rather than 30 mph) much of the peak day.
- C. [Section 4.2.1](#) of this FONSI clarifies that the Denver Regional Council of Governments (DRCOG) is the primary agency *consulted* in the transportation analysis.
- D. The EA includes the requested analysis on [page 3.1-7](#) in the section titled "What is the effect of the Proposed Action with no managed lane on the peak day (Sunday) traffic?" No expansion or additional clarification is needed.
- E. Currently, relatively few single-occupant vehicles travel on I-70 during periods of peak congestion (Sunday afternoons). The I-70 PEIS reports vehicle occupancy of 2.8, which is much higher than that experienced during the typical urban commute. The toll for the managed lane may encourage more carpooling in order to have an extra passenger to share the toll costs. However, because the anticipated tolls are relatively low (\$1 to \$3 dollars) and the existing vehicles have high occupancy, the increase in average vehicle occupancy may not be measurable.
- F. [Section 4.2.1](#) of this FONSI clarifies that speed differential is a operational characteristic of managed lanes: "...the speed differential [between the managed lane and general purpose lanes] is not a potential but will occur. Speed differential is a key feature of managed lanes, because managed lanes provide free-flow traffic during congested periods and by design operate at higher speeds than adjacent general purpose lanes during these congested periods." Weaving and maneuvering of vehicles at the pre-entry point, along with the proposed design features to minimize safety concerns, are described in the second column on [page 3.1-6](#) of the EA.

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Public Hearing <b>Document Number:</b> LO-04	<b>Name:</b> Kevin Moore, Clear Creek School Dist. <b>City, Zip Code:</b> Unknown
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REPORTER'S TRANSCRIPT OF PUBLIC HEARING  
HEARING DATE: Wednesday, July 25, 2012

A

Hi. I'm here on behalf of the Clear Creek School District. Well, we desire a plan that would minimize a disruption of our school buses on our school routes. Our buses currently pass through the tunnels about 12 times a day in the morning and about 11 times in the afternoon, plus a couple of activity buses later in the evening. We wanted to point out we have no buses passing in the area between 8:30 and 3:00 p.m. This is our major concern. We need to get the kids to school and not have them stuck in traffic where they're missing class. This is our concern. Thank you.

**Response to LO-04**

- A. [Section 3.1.6](#) in the EA concludes that during construction, weekday traffic will be largely unaffected, except for stoppages for tunnel blasting. The current highest weekday eastbound traffic volume through the tunnel is approximately 1,700 vehicles per hour (vph) (occurring from 4:00 to 5:00 pm), which is less than the 2,700 vph capacity of the detour. Stoppages for tunnel blasting could result in greater delays, resulting in the potential for delays to school bus travel times. Mitigation has been added to **Table 3-1** of this FONSI to commit CDOT to considering Clear Creek County School District busing schedules when developing the traffic control plan, distribute the public information plan to Clear Creek County School District prior to construction, and include the School District in public information updates during construction. Information regarding the potential for delays to school bus travel, and the commitment to consider busing schedules and include Clear Creek County School District in information updates is explained in [Section 4.2.1](#) of this FONSI.

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

Source: Public Hearing Document Number: LO-05	Name: Jack Morgan, Mayor City, Zip Code: Idaho Springs, 80452	
<p>REPORTER'S TRANSCRIPT OF PUBLIC HEARING HEARING DATE: Wednesday, July 25, 2012</p> <p>A</p> <p>I'm a 30-year resident of our city. I'm also concerned about the economy of the city. About 80 percent of our money that comes here to operate our city government is sales tax. As Tony and a lot of these people know, I've attended quite a few of these meetings, and I can assure you that I think -- I see a lot of businesses here tonight, and we're going to probably have a windfall. The economy is going to really be good during this construction. And the reason I'm saying that, is there are going to be several hundred people working down there all of the time, and they're going to be filling up our motel/hotels, our restaurants, and it's going to be an inconvenience to the city. But I think the economic boom that we're going to derive from this is going to far override any inconvenience that we might have.</p> <p>B</p> <p>It's really heartwarming to so many people come out and get involved here. I want to thank Randy and everybody involved. This is really -- the bulk of this project is really federal money. It's your money coming from the federal government. The State has a smaller stake in this, and mostly with the redoing of 314. But the tunnel project is basically federal money that we're using. And I take my hat off to Randy, who's sitting up here in the blue shirt, he's working for the company to get money that wasn't even available. I don't know where he came from, but they got the money. For your information, it's \$60,000,000 of federal money they're spending down there. And it's got the support from Governor Hickenlooper, the executive director of CDOT, Region 1 here, and all of the other people who have been involved, and I want to take my hat off to them. And I want to thank all of you for the cooperation that you've shown to the city staff and city government here. It's been really a highlight for me.</p> <p>I would like to appeal to all of the citizens to support this project, to get behind it. I'd just like to thank the CDOT staff and people, and I think they deserve a real hand of appreciation.</p>		<p><b>Response to LO-05</b></p> <p>A. The findings in <a href="#">Section 3.2.6</a> in the EA support your statement that construction is likely to benefit businesses in Clear Creek County and Idaho Springs if goods and services are purchased locally. Construction-related congestion could also result in some travelers "waiting out" delays by visiting Idaho Springs businesses, resulting in increased sales tax revenues.</p> <p>B. Comment noted.</p>

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-01	<b>Name:</b> Gerald Mayo <b>City, Zip Code:</b> Unknown	<b>Response to IND-01</b> A. Comment noted. If you are referencing I-70 (and not I-25), congestion, the Proposed Action will reduce congestion through this segment of I-70 when compared to the No Action condition. By widening the eastbound Twin Tunnels, this location will no longer be the choke point of eastbound congestion. The Proposed Action will not affect I-25 congestion. B. As described in <a href="#">Section 2.1.2</a> of this FONSI, CDOT has identified the managed lane operating scenario as part of the Proposed Action. CDOT will charge a fee for use of the lane only during peak periods of congestion, which typically occur on Sundays and holidays during the summer and winter months. The lane will operate as a general purpose lane, free of charge, at all other times. Although tolls can generate revenue to pay for construction, the managed lane for this project is intended to help maintain free-flow conditions and reliable travel times during peak periods and is not expected to generate significant revenue for construction.
A [ ] I think that this would significantly help the I-25 congestion.	B [ ] I would also be in favor of developing it as a "Toll" or fee road. I would pay to use the better faster access and to help pay for the construction of this monumental project.	Gerald Mayo

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-02	<b>Name:</b> Gerald Mayo <b>City, Zip Code:</b> Unknown	<p><b>A</b> Just another thought. If the center lane were to become the toll access then it could be used as “East Bound” or West Bound as necessary to help congestion. Still utilizing it as a Fee or Toll access lane.</p> <p>Gerald Mayo</p>	<p><b>Response to IND-02</b></p> <p>A. CDOT considered the possibility of implementing a reversible lane in the I-70 Mountain Corridor using the existing lane capacity (see <a href="#">I-70 Reversible Lane Georgetown to Floyd Hill Feasibility Study</a> attached as a reference document in the appendix) and found many physical and operational challenges to this concept.</p> <p>To operate the new lane in this project as a reversible lane is not practical to meet the project purpose and need for alleviating eastbound safety and mobility concerns or to address future westbound needs. A reversible toll lane would require a wider project footprint to accommodate an adequate safety buffer to separate eastbound and westbound traffic. The reversible toll lane would require a tunnel bore wider than the 61-foot bore examined in the EA and would result in much greater environmental impacts and higher construction costs than the Proposed Action. Additionally, a third lane in the westbound direction through the project area would not connect to an existing third lane at either end of the project; the existing third lane in the westbound direction ends at the top of Floyd Hill and would, thus, have little effect on reducing westbound congestion in the project area.</p>
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**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-03	<b>Name:</b> Alan Harris <b>City, Zip Code:</b> Unknown	<p>While enlarging the Twin Tunnels may ultimately be a necessary solution, I would urge consideration of a few less costly and more rapidly implemented remedies first.</p> <p>A</p> <ol style="list-style-type: none"> <li>1. Going eastward on I-70 the speed limit decreases at the tunnels from 65 to 60 to 55 and then 50 mph. That in and of itself is enough to cause congestion as traffic comes to a slowdown at that juncture. Leave the speed limit at 65 mph and encourage traffic to move quickly through the tunnels rather than obstruct them. Trucks would have to go slower and stay in the right hand lane. The highway can be safely negotiated at the higher speed.</li> </ol> <p>B</p> <ol style="list-style-type: none"> <li>2. Brighten the lights inside the tunnels and paint murals on the walls and ceilings, a trompe l'oeil effect, to make drivers believe they are still outside and not within the confines of a tunnel. This may also reduce the slowing and congesting effect of entering a tunnel.</li> </ol> <p>If these types of solutions work more costly and time consuming projects would be unnecessary. If after a reasonable trial period they do not help the problem more involved projects can always be implemented. Thank you for your consideration.</p> <p>Alan Harris</p>
		<p><b>Response to IND-03</b></p> <p>A. As discussed in <a href="#">Section 1.4.1</a> in the EA, excessive travel speeds through the curves in the Twin Tunnels project area are the main cause of crashes, with nearly 60 percent of drivers involved in crashes traveling at 60 mph or faster. Posted speed limits throughout the Twin Tunnels project area (and the I-70 Mountain Corridor) vary due to the roadway geometry (steep grades, tight curves). As described in <a href="#">Section 1.4.2</a> of the EA and noted in the response to comment <a href="#">LO-01-C</a>, in addition to slowing for tight curves, motorists slow on the approach to the tunnels due to the real and perceived narrowing of the tunnels. The tunnels have lower capacity than surrounding sections of the highway, as illustrated in <a href="#">Figure 1-8</a> in the EA, creating congestion during peak periods. For these reasons, CDOT has determined that tunnel widening, in addition to safety and design speed improvements, is required.</p> <p>B. Under the Proposed Action, CDOT is considering options for tunnel lining that are brighter and more reflective, as well as creating an overhang entrance to the tunnel, which will allow more options to improve lighting for the tunnel entrance, which has been identified as a factor causing slowing through the tunnels as you also observe.</p> <p>Over the years, CDOT has changed both the paint and lighting in the tunnel to try to improve the “black hole” effect of the Twin Tunnels. The walls have been painted a lighter color, but the lining material is flat (not reflective) and dulls with exhaust and other vehicle emissions. Lighting at the tunnel has been upgraded and various lighting arrangements have been attempted. However, the flat face of the tunnel entrance makes it difficult to effectively light the interior, while not creating glare at the exterior entrance. Because of these difficulties in improving the “black hole” tunnel effect, CDOT has determined that tunnel widening, in addition to lighting improvements, is required.</p>

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-04	<b>Name:</b> Debbie Tryon <b>City, Zip Code:</b> Unknown	<p><b>Response to IND-04</b></p> <p>A. Removing the tunnels entirely was an option studied and ultimately eliminated from further consideration as part of the <a href="#">I-70 PEIS</a> and the subsequent <a href="#">Twin Tunnels visioning workshop</a>. As noted in the I-70 PEIS, the Twin Tunnels is an important land bridge for wildlife crossing I-70. Removing the tunnels would likely have adverse environmental impacts, generate large quantities of waste materials, and create an area prone to rockslides and other geologic hazards that would be difficult to manage.</p> <p>The Twin Tunnels visioning workshop conducted in 2011 concluded removing the tunnels would create excessive environmental impacts, have an unreasonably high cost, and would require closure of the entire interstate during construction. For these reasons, the visioning workshop did not carry this alternative forward, consistent with the conclusions of the I-70 PEIS. As a result of these previous analyses, demolishing the tunnels entirely was not an alternative evaluated as part of the Twin Tunnels EA.</p>
Mr Singer,		

A [ ] Why can't you demolish the tunnels entirely? They have caused numerous problems for decades. I am not sure what purpose they serve anyway.

Debbi Tryon

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**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-05	<b>Name:</b> jb1938cha@q.com <b>City, Zip Code:</b> Unknown	<p><b>A</b> Widening the eastbound bore to three lanes is an admirable undertaking and will certainly help with traffic flow, but, after it is done, the apparent bottleneck will be the westbound tunnel, at least by comparison. If you can, try to allow space to widen it to three lanes later. I realize we can only do so much at one time, but it would be tragic if the work on the eastbound bore precluded doing likewise on the westbound side. The mountainside to the north is formidable, and would not yield easily to excavation.</p>	<p><b>Response to IND-05</b></p> <p>A. CDOT is committed to completing westbound improvements in the Twin Tunnels area as well, including adding a third lane from Floyd Hill and widening the westbound tunnel bore. Eastbound improvements were prioritized for this project because the immediate safety and mobility needs are greater in the eastbound direction, as noted in <a href="#">Section 1.7</a> of the EA. Your observation of the challenges of westbound improvements is correct and is also discussed in <a href="#">Section 1.7</a> of the EA. <a href="#">Section 2.8</a> in the EA explains how the Twin Tunnels project has been developed to preserve options for future westbound widening and other transportation improvements planned for the area, including the future Advanced Guideway System (AGS) transit improvements or realignment of the highway to support a higher design speed.</p>
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**Table 5.2.** Public and Agency Comments Received and Responses to Comments

## Comments

<b>Source:</b> Email	<b>Name:</b> Grayson Drexel
<b>Document Number:</b> IND-06	<b>City, Zip Code:</b> Unknown
Thank you very much for inviting comments from the general public as CDOT and FHWA contemplate this project.	
<p>I have driven this piece of road regularly since 1968. I arrived in Colorado at that time and was then and continue to be an avid outdoors person.</p> <p>I have owned and currently own mountain property. I have climbed all the state's 14ers and I have camped and backpacked extensively across the mountain region. I give this brief preamble because I do feel my travels have given me a sharp eye towards our roads and highways. As my climbing companions and I would drive down to Lake City or over by Ridgway on a beautifully resurfaced and painted highway, often it would seem ours was the only car on the road and we'd joke about how indeed we got the benefit of "our highway dollars at work".</p> <p>I imagine you folks know way more than I about engineering, grading, curve angles, speeds and all aspects of highway and tunnel construction. Given that, I don't think I've got any ideas you haven't considered. But there is one absolutely obvious issue that affects not just this stretch of I 70, but the entire mountain corridor: slow moving trucks.</p> <p>In the case of the Twin Tunnels, the trucks slow down as they approach (and the flashing warning sign saying "slow down" is hard to ignore) the tunnel then they stay slow through the curves. Add bad weather and they might be crawling. Impatient right lane drivers try to weave around them cutting left lane drivers off and driving in a fashion which causes others all around them to slow. Then the trucks get to Floyd Hill and go even slower. In my opinion, if trucks were restricted from driving east during peak periods and west at peak periods (the location of the Dumont Weigh Station westbound, with its upgrade exit creates logjams as bad as the tunnel east bound) huge delays would be averted.</p>	
<p><b>Response to IND-06</b></p> <p>A. CDOT recognizes that trucks and other slow-moving vehicles present mobility challenges in the mountains. CDOT is already implementing some activities specifically targeted at truck traffic, such as improved chain-up stations and rest areas, and enhanced traveler information strategies throughout the I-70 Mountain Corridor. The Twin Tunnels Proposed Action includes improving the chain-up station in the project area, as well as improving the lowest speed curve in the project area west of Hidden Valley. You are correct that trucks have a particularly hard time negotiating tight curves and have a higher risk of rollover when driving too fast through those curves.</p> <p>Your comment notes that peak period truck restrictions would be a viable alternative for alleviating congestion throughout the I-70 Mountain Corridor in addition to or perhaps instead of the Proposed Action. CDOT has considered truck restrictions and other transportation management elements to improve freight movement through the Corridor. CDOT worked closely with stakeholders, including the Colorado Motor Carriers Association, to study the mobility and safety challenges along I-70 and develop the I-70 Mountain Corridor Preferred Alternative presented in the <a href="#">I-70 PEIS</a>.</p> <p>Through the analysis conducted for the I-70 PEIS, CDOT and FHWA concluded that truck restrictions alone would not address the mobility challenges and do not meet the needs of interstate highway users, which include freight trucks. As described in the I-70 PEIS, many freight operations have some scheduling flexibility and, as a result, avoid peak travel/congestion times to the extent possible. However, other freight operations have more strict delivery timing requirements and must operate regardless of traffic conditions (for example, bulk mail, food service, scheduled packaged delivery, and just-in-time shipments). Additionally, limited truck parking resources and Federal Hours-of-Service regulations further restrict options for the commercial vehicle driver in the I-70 Mountain Corridor. It should be noted that the portion of heavy trucks varies greatly along the Corridor by day of week; there are more trucks on weekdays compared to weekends.</p>	

*Continued on next page*

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

	<b>Source:</b> Email <b>Document Number:</b> IND-06 (continued)	<b>Name:</b> Grayson Drexel (continued) <b>City, Zip Code:</b> Unknown
<b>A</b> (cont)	<p>I realize trucks haul needed items and the owners pay big taxes. Markets need products to sell. Basic economy is affected. I get that. But 40 years of driving I 70 east of the divide in both directions has hammered home again and again that trucks cause big traffic trouble. They are usually slow on the inclines, they get stuck, they frighten people when they do go fast and they can be completely exasperating when they pass one another.</p> <p>In my opinion, figure out a way to keep big trucks off the road from Golden to Dillon during peak westbound travel times, and off the road from Dillon (and Fraser) to Golden during peak eastbound travel times and a host of congestion problems might be solved.</p>	<b>Response to IND-06 (continued)</b> B. As pointed out in response to <a href="#">IND-04-A</a> , removing the tunnels entirely was an option studied and ultimately eliminated from further consideration as part of the <a href="#">I-70 PEIS</a> and the subsequent <a href="#">Twin Tunnels visioning workshop</a> . As noted in the I-70 PEIS, the Twin Tunnels is an important land bridge for wildlife crossing I-70. Removing the tunnels would likely have adverse environmental impacts, generate large quantities of waste materials, and create an area prone to rockslides and other geologic hazards that would be difficult to manage. The Twin Tunnels visioning workshop conducted in 2011 concluded removing the tunnels would create excessive environmental impacts, have an unreasonably high cost, and would require closure of the entire interstate during construction. For these reasons, the visioning workshop did not carry this alternative forward, consistent with the conclusions of the I-70 PEIS. As a result of these previous analyses, demolishing the tunnels entirely was not an alternative evaluated as part of the Twin Tunnels EA.
<b>B</b>	<p>Another thought: somebody must have considered just taking out the hillside where the tunnels bore through, using the displaced fill to widen the lanes and just have no tunnels. Isn't Georgetown Hill similar typography?</p>	

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-07	<b>Name:</b> Rick Van Ort <b>City, Zip Code:</b> Unknown	<b>Response to IND-07</b>
A	Why can't we just do right and do three lanes in EACH direction?	A. Capacity expansion in the westbound direction is included in the <a href="#">I-70 PEIS Preferred Alternative</a> , which CDOT and FHWA approved in the I-70 PEIS <a href="#">Record of Decision</a> in June 2011. CDOT has committed to implement westbound improvements in the Twin Tunnels area, including a third travel lane from Floyd Hill and expansion of the westbound tunnel bore, as part of the I-70 PEIS Preferred Alternative. However, as noted in <a href="#">Section 1.7</a> of the EA, eastbound improvements in the Twin Tunnels area were prioritized because eastbound congestion is more pronounced and occurs over a longer period, and crash history indicates greater safety concerns in the eastbound direction. Westbound improvements are more costly and complex to construct due to the rock cuts and creek impacts that will result. Making incremental improvements, such as eastbound-only improvements, is consistent with the I-70 PEIS adaptive management approach to improving the Corridor in response to evolving transportation conditions and needs.
B	Charge a toll (twice what it should be, but only charge it in one direction so as to not bog down traffic going both east and westbound). Make it \$20.00 on Friday after noon and until Monday 9am. Maybe \$10.00 at all other times.	B. If you are suggesting CDOT toll all lanes at all times, CDOT considered this option, as described in <a href="#">Section 2.1.2</a> and <a href="#">Table 2-1</a> in the EA, and determined that a managed lane is the most appropriate operating scenario for this project. Additionally, a range of tolling prices were used to analyze the congestion pricing approach of the managed lane. The minimum toll for passenger vehicles evaluated was \$0.25 , and the maximum toll evaluated for passenger vehicles was \$50. As described in <a href="#">Section 2.1.2</a> of this FONSI, CDOT will operate the new third lane as a managed lane and charge a fee only during peak periods of congestion. When the managed lane is operating, all vehicles in the lane will pay a fee—likely between \$1 and \$3—and trucks will pay an additional fee or surcharge. Initial modeling suggests that a maximum toll of \$3 will allow the managed lane to operate a free flow conditions, and \$10 or \$20 fees would not be necessary. Outside of peak travel periods when I-70 is congested, the managed lane will operate with no fees.
C	OR to really make traffic move faster start ticketing people in the left lane for going slow or for not pulling over when finished passing. I get sick and tired of passing in the right hand lane ALL the time when going up and down from skiing. And make ALL trucks keep in the right lane when going up hill - it works great in Europe! Also people KEEP RIGHT EXCEPT TO PASS and that too works great.	C. Mobility challenges occur throughout the I-70 Mountain Corridor and have multiple causes, depending on the location. High traffic volumes, steep grades, and slow-moving vehicles are among a few of the issues that have been identified. Throughout the Corridor, slow-moving traffic is encouraged to stay in the right lane, and on steep grade sections, trucks are limited to climbing in the right lane. On a Corridor-wide level, <a href="#">the I-70 PEIS Preferred Alternative</a> includes locations for auxiliary lanes on steep hills for slow-moving vehicles, similar to the existing third lane on the eastbound approach up Floyd Hill, along with increased enforcement and a slow-moving vehicle plan. The issue of slow-moving vehicles is not the primary mobility challenge in the Twin Tunnels project area. Instead, high traffic volumes, the narrow tunnel, and tight curves present constraints that slow traffic. The Proposed Action will add a third lane to relieve the mobility issues.
Sorry I can't attend your sessions. Rick Van Ort		

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

Source: Email Document Number: IND-08	Name: Pete Grannis City, Zip Code: Unknown	<p><b>Response to IND-08</b></p> <p>A. The Twin Tunnels project is the first major improvement project on I-70 in the mountains in approximately 20 years. If the “last redo” you are referring to is the construction of the Central City Parkway and Hidden Valley Interchange, the purpose of that project was to provide access to Central City from I-70 and not to address transportation issues on I-70. CDOT (and other stakeholders) have been aware of problems on the I-70 Mountain Corridor for many years. More than 10 years ago, CDOT initiated the I-70 Mountain Corridor Programmatic Environmental Impact Statement (PEIS) to evaluate transportation problems and solutions on the I-70 Mountain Corridor from Glenwood Springs to the Denver area. In June 2011, FHWA and CDOT issued a <a href="#">Record of Decision for the I-70 Mountain Corridor</a> that authorized a broad, multimodal set of improvements for the corridor and authorized project-level, or Tier 2 processes, to proceed. The Twin Tunnels project is the first project to be proposed under the Record of Decision; additional construction projects will be initiated in the future as funding is identified.</p> <p>B. As noted in response to comment <a href="#">IND-07-A</a>, capacity expansion in the westbound direction is included in the I-70 PEIS Preferred Alternative, and CDOT intends to implement westbound improvements in the Twin Tunnels area. However, as noted in <a href="#">Section 1.7</a> of the EA, eastbound improvements in the Twin Tunnels area were prioritized because eastbound congestion is more pronounced and occurs over a longer period, and crash history indicates greater safety concerns in the eastbound direction. Westbound improvements are more costly and complex to construct due to the rock cuts and creek impacts that will result. Making incremental improvements, such as eastbound-only improvements, is consistent with the I-70 PEIS adaptive management approach to improving the Corridor in response to evolving transportation conditions and needs.</p>
<p>David: Couple comments as an every week and weekend winter and half as much during the summer user of the I70 corridor:</p> <p>A [ This is long overdue and the start of a good idea. I wonder why this was not done when the last redo of this area was performed? (10 years ago or so??) The current mess should have been anticipated then, I am surprised it was not.</p> <p>B [ BOTH sides of the tunnel should be expanded and a third lane added to west bound I70 to roughly the same point. The morning ski commute weekends is backed up from the bottom of Floyd hill's west side right over the top and down to the east side very frequently. The need is obvious westbound as well. Given traffic volume now which we can be sure will continue to grow make this one project. Obviously the method would need to be sequential or the traffic consequences would be paralyzing, probably will be very unpleasant anyway.</p>		

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

Source: Email Document Number: IND-08	Name: Pete Grannis (continued) City, Zip Code: Unknown	<b>Response to IND-08 (continued)</b> C. As described in <a href="#">Section 2.1.2</a> of the FONSI, CDOT will operate the new third lane as a managed lane, and will charge a fee—likely between \$1 and \$3—for its use in peak congestion periods to maintain a reliable travel time in the managed lane. At first, the managed lane would operate only on Sundays during peak congestion, but could extend to weekday periods as congestion grows over time. <a href="#">Section 3.3, Environmental Justice</a> , in the EA concluded that the charge for use of the managed lane is not anticipated to result in a meaningful financial burden for lower-income drivers. A managed lane added to the existing general purpose lanes would provide additional transportation options for all commuters, regardless of incomes, as drivers can choose to pay the charge when a faster, more reliable trip is necessary. Public (and possibly private) buses would be able to use the managed lane for free. CDOT will collect tolls via license plates or transponders and will accommodate offsite alternative payment options. For these reasons, the managed lane is not anticipated to meaningfully or disproportionately affect lower-income populations. D. The I-70 Mountain Corridor experiences a high existing vehicle occupancy of 2.8 persons per vehicle during peak periods (weekends) and, therefore, a carpool lane would not serve as the solution for improving capacity and reducing congestion in the Corridor. In the <a href="#">I-70 PEIS</a> , CDOT and FHWA evaluated alternatives to provide new high-occupancy vehicle (HOV)/high-occupancy toll (HOT) lanes through the Corridor that could be used only for buses, carpools, or low-occupancy vehicles that have paid a toll; the evaluation found that HOV/HOT lanes alone would not be an effective way to control peak period congestion because of the already high vehicle occupancy.
C  D	<p>The card I received in the mail also mentioned you are considering a toll lane during peak periods. I completely and totally oppose this! This will leave those that cannot afford the toll still stuck in the same mess while the more affluent whiz by next to them. (I could afford this by the way, so this is not self interest) I think it would be very unfair to improve the road with everyone's tax dollars and then render the improvement unusable to those that could afford their taxes least in the first place! (many of whom would be residents of Idaho Springs) VERY bad idea, and it is just a band aid to quiet those with perhaps a bit more pull and an elitist attitude with state agencies. If the purpose is to improve traffic flow, a carpool only lane is a way better idea, and I would say that it should be a more than two per car lane! Those that carpool should benefit from that activity, which decreases traffic, pollution and oil consumption. (also not a self interest statement, I drive up solo some of the time to work at Arapahoe Basin and at a gallery in Georgetown) I carpool with friends and family the rest of the time, two to five in the car.</p> <p>Get er done! Go for it!</p> <p>On a separate subject and as an extremely regular user of I70 during winter months for the last 25 years:</p>	

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-08	<b>Name:</b> Pete Grannis (continued) <b>City, Zip Code:</b> Unknown	<p><b>E</b> TRUCKS in bad winter weather cause far more problems with traffic flow than any other source. One truck immobilized on a gradient by the driver ignoring chain laws is worse by far than my many brethren that feel immortal in their SUV's. (They are jerks too for sure, my SUV never goes off the road or sideways into a ditch, no traction is no traction even with 4 wheels after all!) The hourly tunnel closures when Loveland Pass is closed for hazmat vehicles to use the tunnel make the traffic problems much worse as you can only well know. The patrol car speed control thing is a band aid let's face it. It does help a bit in good weather by eliminating slinky behavior in the traffic pattern, but when the weather goes in the tank and the trucks fail to chain up (or do chain up and still cannot make the gradient) it is called off as there is no more speed to control.</p> <p><b>F</b> IDEA: On weekends do this: (especially in bad weather obviously, and peak weekends)</p> <p>Saturday am: NO TRUCKS from 6:30-10 am.</p> <p>Saturday pm: NO TRUCKS from 2:30-5pm. (less traffic returning to Denver than Sunday night)</p> <p>Sunday am: NO TRUCKS from 7-9:30 am. (less traffic going to the mountains than Saturday morning)</p> <p>Sunday pm: NO TRUCKS from 2-6:30 pm (by far the most traffic of all times)</p> <p>Yes it's a federal highway, but it is the weekend, we do pay for the roads also and the trucks with proper notice can either time their trips to pass thru this area not at other times, take a break and wait or go thru Wyoming on 80 if they are going transcontinental. I've been watching this problem for 25 years, and this would help more than a new lane most all the time and would help the whole road to Summit County, not just that one curve.</p> <p>Whew! Thanks for listening!</p> <p>Pete Grannis</p> <p><b>Response to IND-08 (continued)</b></p> <p>E. As noted in response to comment <a href="#">IND-06-A</a>, CDOT recognizes that trucks and other slow-moving vehicles present mobility challenges in the mountains. CDOT is already implementing some activities specifically targeted at truck traffic, such as improved chain-up stations and rest areas and enhanced traveler information strategies throughout the I-70 Mountain Corridor. The Twin Tunnels Proposed Action includes improving the chain-up station in the project area and improving the low-speed curve west of Hidden Valley to provide more consistent travel speeds through the area. The issue of slow-moving vehicles and truck movements is not the primary mobility challenge in the Twin Tunnels project area. Instead, high traffic volumes, the narrow tunnel, and tight curves present constraints that slow traffic.</p> <p>F. Your comment notes that truck restrictions would be a viable alternative for alleviating congestion throughout the I-70 Mountain Corridor in addition to or instead of the Proposed Action. As noted in response to comment <a href="#">IND-06-A</a>, CDOT spent the last 10 years working with stakeholders, including the Colorado Motor Carriers Association, to study the mobility and safety challenges along I-70 from trucks and other vehicles. The approved <a href="#">I-70 Mountain Corridor Preferred Alternative</a> includes highway, transit, and non-infrastructure components and addresses immediate and long-term transportation needs in the corridor. Non-infrastructure components include transportation management elements to improve freight movement through the Corridor.</p> <p>Truck restrictions alone would not address the mobility challenges and do not meet the needs of interstate highway users, which include freight trucks. As described in the <a href="#">I-70 PEIS</a>, many freight operations have some scheduling flexibility and, as a result, avoid peak travel/congestion times to the extent possible. However, other freight operations have more strict delivery timing requirements and must operate regardless of traffic conditions (for example, bulk mail, food service, scheduled packaged delivery, and just-in-time shipments). Additionally, limited truck parking resources and Federal Hours-of-Service regulations further limit options for the commercial vehicle driver in the I-70 Mountain Corridor. It should be noted that the portion of heavy trucks varies greatly along the Corridor by day of week; there are more trucks on weekdays compared to weekends.</p>
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**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-09	<b>Name:</b> F. R. Yeatts <b>City, Zip Code:</b> Golden,
<p>Please accept this brief written comment regarding the Twin Tunnels Project:</p> <p>A [The Twin Tunnels-to-Floyd Hill project may be a worthy up-grade of I70, but I don't see how it significantly relieves the over-all congestion problem. Therefore, I believe that the money required for this project should be saved and applied to a more comprehensive solution. Thank you.]</p> <p>Sincerely, F. R. Yeatts Golden, Colorado</p>	<p><b>Response to IND-09</b></p> <p>A. Comment noted. The Twin Tunnels project is a component of a comprehensive solution for the I-70 Mountain Corridor, as approved in June 2011 by the <a href="#">I-70 Mountain Corridor PEIS Record of Decision</a>. The Twin Tunnels project alone will not solve I-70 congestion but it will provide immediate relief for congestion in the eastbound direction in one of the most congested bottlenecks of the corridor during peak periods. However, CDOT recognizes the need for additional improvements and is committed to implementing the complete <a href="#">I-70 PEIS Preferred Alternative</a>; additional projects will be initiated in the future as funding is identified.</p>

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

Source: Email Document Number: IND-10	Name: Linda Feidler City, Zip Code: Idaho Springs, 80452	<b>Response to IND-10</b> A. With respect to the operation of the zip line, CDOT understands that land uses adjacent to the interstate could attract attention from motorists, resulting in slower travel speeds. However, the regulation of land use and businesses is a function of cities and counties, and is not under CDOT's purview. No permits or approvals from CDOT, such as an access request, were requested or needed for the zip line. As noted in response to comment <a href="#">IND-07-A</a> , CDOT is committed to capacity expansion in the westbound direction of I-70 in the Twin Tunnels area as well. However, as noted in <a href="#">Section 1.7</a> of the EA, eastbound improvements in the Twin Tunnels area were prioritized because eastbound congestion is more pronounced and occurs over a longer period, and crash history indicates greater safety concerns in the eastbound direction. Westbound improvements are more costly and complex to construct due to the rock cuts and creek impacts that will result. B. If customers have difficulty accessing your business due to congestion, the Twin Tunnels project will improve traffic conditions over the No Action (that is, doing nothing). During construction, CDOT will work with Idaho Springs and businesses to minimize potential economic impacts to businesses such as yours. CDOT has identified specific measures to mitigate economic effects, as listed in <b>Table 3-1</b> of this FONSI. Measures include the development of a public information plan and public information strategies such as media advisories, variable message signs, advance signs, a telephone hotline, real-time web cameras, the use of intelligent transportation systems and technology in construction work zones, a construction project website, and alternate route advisories to alert travelers to construction activities. CDOT will provide well-placed and highly visible signage to direct patrons to businesses. We have included your business on the project mailing list for construction notices.
<b>A</b> <p>"Fixing" EB I-70 isn't our only concern now. Traffic has become worse since the zip line has gone in in Dumont. Saturday, July 21, from 11:00 am – 3:30 pm, the traffic WEST bound was nothing but stop and go which meant people just HAD to get off at the east end of Idaho Springs and go through town. Of course, traffic became stop and go all the way through town, Miner Street as well as Colorado Blvd. So "fixing" EB I-70 isn't going to solve but only half of the problem it would appear.</p>		
<b>B</b> <p>It is highly likely that I will have to liquidate my business this fall. Quilters are mostly women and they are unwilling to deal with the traffic congestion and construction. Those living in the Denver-Metro area will find it easier to shop closer to home regardless of what I can offer as a market niche. Customers I get from Lake, Summit, Eagle, Routt, Moffat, Grand, and Gilpin are already planning their trips around necessary errands and appointments because of gas prices AND the traffic congestion. Can accommodate THEIR hours?</p>		

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments**

<b>Source:</b> Email	<b>Name:</b> Kent Sterett
<b>Document Number:</b> IND-11	<b>City, Zip Code:</b> Unknown

David

In an effort to better understand the process, we have several questions:

- A     • Who owns the property that is adjoining or affected by the project?
- Is any of the adjoining property publicly owned?
- If so is any of the affected or adjoin property owned by the Forest Service?
- B     • The area and scope of the project involves public safety, view scape, mine waste that was used as fill in previous years, water quality in Clear Creek, areas frequented by endangered species and historical sites. How was the decision made to use an EA as opposed to an EIS made?
- Both the Guanella project and the I-70 project were deemed to require a full multiyear EIS implementation, why is this being handled with only an EA?

**Responses****Response to IND-11**

- A. [Section 3.4, Land Use and Right-of-Way](#), in the EA describes the parcels surrounding the project, which are both privately and publicly owned. The public parcel ownership includes the U.S. Forest Service and Clear Creek County. One vacant property, under private ownership, will be partially acquired to accommodate the reconstruction of the truck chain station. No other right-of-way acquisitions are needed for the Proposed Action.
- B. CDOT completed the [I-70 PEIS](#) and [Record of Decision](#), as noted in next comment (IND-11-C). The Twin Tunnels project tiered from the analysis presented in the I-70 PEIS. Based on CDOT's knowledge of the project area from the I-70 PEIS and the fact that the majority of the project can be built within existing I-70 right-of-way, significant impacts were not expected, and CDOT conducted an EA to evaluate potential impacts. The EA fully evaluated impacts to 19 resources, including public safety, visual resources, mine waste, water quality, wildlife, threatened and endangered species, and historic resources, which are evaluated in [Sections 3.1, 3.7, 3.18, 3.16, 3.10, 3.12, and 3.6](#) in the EA, respectively. As concluded in [Chapter 8](#) of this FONSI document and supported by the analysis of impacts, benefits, and committed mitigation measures presented in the EA and consideration of public and agency comments, FHWA and CDOT have determined that the Twin Tunnels project will not result in significant impacts to these or other resources. An EIS, therefore, is not needed for this project.

*Continued on next page*

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-11	<b>Name:</b> Kent Sterett (continued) <b>City, Zip Code:</b> Unknown
<p>C [ ]</p> <ul style="list-style-type: none"> <li>• To what degree were the studies referenced in the recent I-70 EIS used or referenced in this project EA? Are they being updated or expanded to assure their coverage of this location?</li> </ul> <p>Please respond to the e-mail address Thank you!</p>	<p><b>Response to IND-11 (continued)</b></p> <p>C. As explained in <a href="#">Section 1.1</a> in the EA, the Twin Tunnels project was conducted as a Tier 2 NEPA process consistent with and drawing upon the conclusions, recommendations, and approvals of the Tier 1 <a href="#">I-70 PEIS</a>. <a href="#">Chapter 3</a> and <a href="#">Table 3-1</a> in the EA describe how the Twin Tunnels project addresses Tier 2 commitments from the I-70 PEIS. As noted in <a href="#">Section 1.6</a> in the EA, the Twin Tunnels EA reflects the recommendations and analysis of many previous studies, including the I-70 PEIS. The Twin Tunnels EA presents current analysis based on the Proposed Action, incorporates relevant data from previous studies, and refines the conclusions of past studies as they relate to the Proposed Action and current conditions in the Twin Tunnels project area. However, the Twin Tunnels project does not update past studies. A link to this comment response has been emailed to you as requested.</p>

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<p><b>Source:</b> Letter  <b>Document Number:</b> IND-12</p> <p style="text-align: right;">Dick Braman 4145 Rd. 275 Idaho Springs, CO 80452</p> <p>Dear Mr. Singer,</p> <p>A [ ] Thanks for listening to my objections to the alterations of the east-bound bore of the Twin Tunnels and the expansion of the roadway to three lanes on Monday, July 16, 2012. This proposal, as outlined, must be scrapped, mainly because of the traffic congestion that will ensue due to the speed of traffic on the diversionary frontage road around the construction.</p>	<p><b>Name:</b> Dick Braman  <b>City, Zip Code:</b> Idaho Springs, 80452</p> <p><b>Response to IND-12</b></p> <p>A. CDOT is aware of the public's concern over congestion and travel delays during construction. CDOT has taken a number of steps to minimize travelers' inconvenience. Construction of the Proposed Action has been planned to minimize the length of time the detour will be in place, including working extended hours throughout the duration of the I-70 closure. The detour will be in place approximately 6 to 7 months and outside of ski season.</p> <p>The detour route has been carefully designed and planned and is expected to operate smoothly most of the time. It is approximately 1 mile long and will operate at 35 mph; it has sufficient capacity to handle I-70 traffic during weekdays and non-peak weekend hours. As described in <a href="#">Section 3.1</a> in the EA, CDOT has conducted traffic analysis to evaluate the delays that could occur during construction and has concluded that weekday traffic should be largely unaffected as a result of the detour route and speeds. Stoppages during tunnel blasting will increase delays, but queues resulting from traffic closures for blasting should dissipate within an hour. The worst-case weekend peak traffic delays will be approximately 30 minutes longer than existing travel times. CDOT fully evaluated the impacts of construction and has determined the mobility and safety benefits gained under the Proposed Action offset the temporary impacts, and CDOT is pursuing final design and construction of the Proposed Action.</p>
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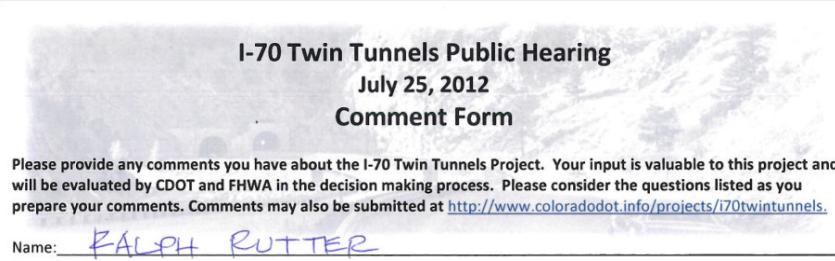
**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter <b>Document Number:</b> IND-12	<b>Name:</b> Dick Braman (continued) <b>City, Zip Code:</b> Idaho Springs, 80452	<b>Response to IND-12 (continued)</b> <p>B. <u>Section 2.8</u> in the EA describes the ultimate improvements through the Twin Tunnels project area approved by <u>the I-70 PEIS Record of Decision</u>. Constructing a third bore for the eastbound alignment at this time could preclude construction of the future Advanced Guideway System (AGS), the alignment of which is currently under study. A third bore for the Twin Tunnels project was also studied in the Twin Tunnels Section 4(f) evaluation, and the conclusion was a third bore would cost twice as much and require twice as long to construct compared to the Proposed Action. In light of the need to accommodate other improvements in the Twin Tunnels area (described in detail in <u>Section 2.8</u> in the EA and the <u>Preferred Alternative in the I-70 PEIS</u>), constructing a new tunnel adjacent to the existing eastbound bore is not feasible to meet the needs of the Twin Tunnels project.</p>
<p>The logical alternative to this idea is to construct an entirely new tunnel adjacent to the existing tunnel that would accommodate a 50 mph two-lane frontage road, which during those peak congestive periods, with the aid of red and green traffic control lights, would convert into two east-bound lanes total, a huge improvement over the current design proposal.</p> <p>Since the construction of this frontage road and its tunnel will be south of I-70, there will be no interference with the traffic flow on I-70 and no resulting congestion. This is a bit of conjecture, but I believe the cost of an entirely new tunnel would be only half the cost of alterations to the existing tunnel and adding a new lane of traffic. That would be prohibitive, I would think.</p> <p>Because my proposal would end the congestion on I-70 for at least the six months of construction time and due to the fact it results in four lanes of east-bound traffic, this is a compelling reason to adopt this alternative proposal.</p> <p>Sincerely,</p>  Dick Braman		

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-13	<b>Name:</b> Fred Doyle <b>City, Zip Code:</b> Evergreen, 80439	<b>Response to IND-13</b> A. Comment noted. To clarify, CDOT is widening the <i>existing</i> eastbound bore to accommodate a third lane of traffic. CDOT is not adding a third tunnel bore under the Proposed Action. The responses to comments <a href="#">IND-05-A</a> and <a href="#">IND-12-B</a> note that a third tunnel bore may be part of a future action but is not part of the Twin Tunnels Proposed Action. B. As noted in response to comment <a href="#">IND-03-B</a> , CDOT is considering options for tunnel lining that are brighter and more reflective, as well as creating an overhang entrance to the tunnel, which will allow more options to improve lighting for the tunnel entrance. The final aesthetics of the portal faces and specific lighting design will be consistent with the <a href="#">I-70 Mountain Corridor Aesthetic Guidance</a> and the objectives of the Dark Sky Initiative. Over the years, CDOT has changed both the paint and the lighting in the tunnel to try to improve the “black hole” effect of the Twin Tunnels. The walls have been painted a lighter color, but the lining material is flat (non-reflective) and dulls with exhaust and other vehicle emissions. Lighting at the tunnel has been upgraded and various lighting arrangements have been attempted. However, the flat face of the tunnel entrance makes it difficult to effectively light the interior, while not creating glare at the exterior entrance. Because of these difficulties in improving the “black hole” tunnel effect, CDOT has determined that tunnel widening, in addition to lighting improvements, is required. C. As noted in response to comment <a href="#">IND-10-A</a> , with respect to the operation of the zip line, CDOT understands that land uses adjacent to the interstate could attract attention from motorists, resulting in slower travel speeds. However, the regulation of land use and businesses is a function of cities and counties, and is not under CDOT’s purview. CDOT has no jurisdiction over the approval of the zip line, and no permits or approvals from CDOT, such as an access request, were requested or needed for the zip line.
A [I think adding a third bore to the tunnels is a great idea and should be approved.  Two other items should also be considered:  1. Add bright lights to the inside of the tunnels so that there is no perception of driving into a dark hole. Even the picture on the project website shows the problem. Motorist slow down prior to entering the tunnel because of the light difference. Bright lights would allow motorists to proceed at speed through the existing tunnels. This change could be done very quickly and at very low cost.  2. Address the new zip line facility west of Idaho Springs. The existence of this new business is causing severe rubber necking on weekends in both directions. If this is not addressed, the modifications to the tunnels will have no effect on travel times to and from the mountain areas. The disruption is unacceptable and should have been considered before granting the operating permit. I suggest some type of visual screen for weekend operation, or restricting operations if traffic tie ups continue.  Fred Doyle 1636 Ajax Lane Evergreen, CO. 80439  303-670-5854]		

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<p><b>Source:</b> Comment Sheet      <b>Name:</b> Ralph Rutter</p> <p><b>Document Number:</b> IND-14      <b>City, Zip Code:</b> Dumont, 80436</p>  <p><b>I-70 Twin Tunnels Public Hearing</b>  <b>July 25, 2012</b>  <b>Comment Form</b></p> <p>Please provide any comments you have about the I-70 Twin Tunnels Project. Your input is valuable to this project and will be evaluated by CDOT and FHWA in the decision making process. Please consider the questions listed as you prepare your comments. Comments may also be submitted at <a href="http://www.coloradodot.info/projects/i70twintunnels">http://www.coloradodot.info/projects/i70twintunnels</a>.</p> <p>Name: <u>RALPH RUTTER</u></p> <p>Address: <u>DOB 504</u>      City: <u>DUMONT, CO</u>      Zip: <u>80436</u></p> <p>Organization: <u>MILL CREEK PARK HOA</u>      Phone Number: <u>303 567 1973</u></p> <p><input type="checkbox"/> Mark box if you do not wish to have your address published in the final Decision Document</p> <p><b>COMMENTS</b></p> <p><u>A</u> <span style="border-left: 2px solid black; padding-left: 10px;">Do you have any comments on the project's Purpose and Need or CDOT's Proposed Action?</span></p> <p><u>WHY NOT DO AN OPEN CUT NOW?? 50%    (OR SO) OF DRIVERS SLOW AS SOON AS    THEY SEE A BORE.</u></p>	<p><b>Response to IND-14</b></p> <p>A. As pointed out in response to comment <a href="#">IND-04-A</a>, removing the tunnels entirely was an option studied and ultimately eliminated from further consideration as part of the <a href="#">I-70 PEIS</a> and the subsequent <a href="#">Twin Tunnels visioning workshop</a>. As noted in the I-70 PEIS, the Twin Tunnels is an important land bridge for wildlife crossing I-70. Additionally, removing the tunnels would likely have adverse environmental impacts, generate large quantities of waste materials, and create an area prone to rockslides and other geologic hazards that would be difficult to manage.</p> <p>The Twin Tunnels visioning workshop conducted in 2011 concluded removing the tunnels would create excessive environmental impacts, have an unreasonably high cost, and would require closure of the entire interstate during construction. For these reasons, the visioning workshop did not carry this alternative forward, consistent with the conclusions of the I-70 PEIS. As a result of these previous analyses, demolishing the tunnels entirely was not an alternative evaluated as part of the Twin Tunnels EA.</p>
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**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<p><b>Source:</b> Comment Sheet    <b>Name:</b> Ralph Rutter (continued)</p> <p><b>Document Number:</b> IND-14    <b>City, Zip Code:</b> Dumont, 80436</p> <p>B [   <u>ALSO, SOON A      3 RD WESTBOUND LANE WILL BE NEEDED      AND A CUT WILL BE REQUIRED FOR      AN EVENTUAL RAIL. WHY NOT PROVIDE      FOR FUTURE NEEDS NOW!!</u> </p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p><b>Questions to Consider:</b></p> <ul style="list-style-type: none"> <li>• Do you think this project is necessary? Will it provide benefits to you?</li> <li>• Is the Proposed Action the right solution?</li> <li>• Do you have comments about the way the Proposed Action was developed?</li> <li>• What do you think of the potential design variations?           <ul style="list-style-type: none"> <li>• Does the 50-foot or 56-foot roadway width make more sense?</li> <li>• Do you think we should align the new lane toward the creek or toward the median?</li> <li>• Should the new lane operate as a managed lane during peak periods?</li> </ul> </li> <li>• What do you think about CDOT doing nothing in the area (The No Action)?</li> </ul> </div>	<p><b>Response to IND-14 (continued)</b></p> <p>B. Capacity expansion in the westbound direction and an Advanced Guideway System (AGS) transit system are included in the <a href="#">I-70 PEIS Preferred Alternative</a>, which CDOT and FHWA approved in the I-70 PEIS Record of Decision in June 2011, and CDOT intends to implement these improvements in the Twin Tunnels area as part of the I-70 PEIS Preferred Alternative. However, as noted in <a href="#">Section 1.7</a> of the EA and as described in response to comment <a href="#">IND-07-A</a>, eastbound improvements in the Twin Tunnels area were prioritized because eastbound congestion is more pronounced and occurs over a longer period, and crash history indicates greater safety concerns in the eastbound direction. Westbound improvements are more costly and complex to construct due to the rock cuts and creek impacts that will result. Making incremental improvements, such as eastbound-only improvements, is consistent with the I-70 PEIS adaptive management approach to improving the Corridor in response to evolving transportation conditions and needs.</p>
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**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses****Response to IND-15**

A. Ahead of construction, CDOT will develop an Incident Management Plan, which will identify alternate routes that motorists can travel to avoid I-70 if travel is reduced to one lane of travel in each direction. Currently, if the westbound tunnel is damaged during eastbound tunnel blasting, CDOT plans to route westbound traffic onto the detour route (CR 314) near Hidden Valley and reduce traffic to one lane in each direction on the detour.

CDOT is performing routine tunnel maintenance on the westbound tunnel lining from September to October 2012. During part of that time, the westbound tunnel will be closed to traffic, and westbound traffic will need to be routed onto the eastbound travel lanes. CDOT is constructing a crossover at this time and will maintain the crossover until blasting of the eastbound tunnel is completed in October 2013.

B. As noted in Section 2.1.2 of the EA, the managed lane will operate in the left lane, with vehicles entering east of the East Idaho Springs Interchange and exiting west of the US 6 Interchange. Because the lane will be operated as a general purpose lane the majority of the time, it is not planned to be separated by a buffer or barrier. CDOT could re-stripe the road in the future to provide up to a 2-foot buffer separation if needed to maintain safety or operations. As noted in Section 3.3.6 of the EA, CDOT will collect tolls via license plates or transponders to accommodate offsite payment so that drivers do not have to stop to enter or exit the managed lane.

C. CDOT is in the process of widening the frontage road (CR 314) in the vicinity of the Twin Tunnels to improve local travel for vehicles, bicyclists, and pedestrians. CR 314 is the only local east-west road in the project area. Adding eastbound interstate lanes to CR 314 would result in a loss of local connectivity. Also, the alignment of the CR 314 would not support interstate speeds. Instead, adding a third lane to I-70 through the Twin Tunnels project area improves mobility for interstate users so that CR 314 can remain primarily a local road, and it can serve as an alternate route for I-70 users during accidents, peak travel times, severe weather, construction, or maintenance on I-70.

<b>Source:</b> Comment Sheet	<b>Name:</b> Sarah McFadden
<b>Document Number:</b> IND-15	<b>City, Zip Code:</b> Georgetown, 80444

**I-70 Twin Tunnels Public Hearing**  
July 25, 2012  
**Comment Form**

Please provide any comments you have about the I-70 Twin Tunnels Project. Your input is valuable to this project and will be evaluated by CDOT and FHWA in the decision making process. Please consider the questions listed as you prepare your comments. Comments may also be submitted at <http://www.coloradodot.info/projects/i70twintunnels>.

Name: Sarah McFadden

Address: POB 1221 City: Georgetown Zip: 80444

Organization: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Mark box if you do not wish to have your address published in the final Decision Document

**COMMENTS**

Do you have any comments on the project's Purpose and Need or CDOT's Proposed Action?

A [① What contingency plans are in place if the west bound tunnel is damaged during construction blasting.]

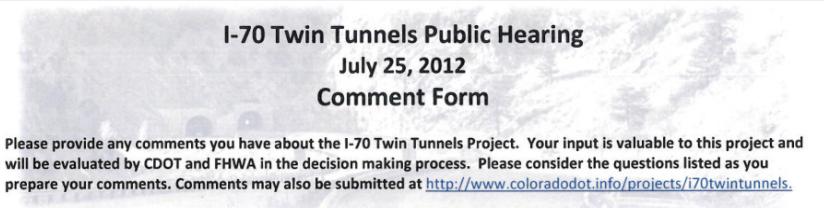
B [② If toll lane is established how is it separated from the other 2 lanes?]

C [③ Has any thought been given to establishing 3<sup>rd</sup> or 4<sup>th</sup> east bound lanes to frontage road for high volume times and expanding 3<sup>rd</sup> lane of traffic east of tunnel?]

**Questions to Consider:**

- Do you think this project is necessary? Will it provide benefits to you?
- Is the Proposed Action the right solution?
- Do you have comments about the way the Proposed Action was developed?
- What do you think of the potential design variations?
  - Does the 50-foot or 56-foot roadway width make more sense?
  - Do you think we should align the new lane toward the creek or toward the median?
  - Should the new lane operate as a managed lane during peak periods?
- What do you think about CDOT doing nothing in the area (The No Action)?

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Comment Sheet <b>Name:</b> Donna Moody <b>Document Number:</b> IND-16 <b>City, Zip Code:</b> Dumont, 80436	<b>Response to IND-16</b> <p>A. You are correct that westbound lanes generally carry a similar volume of traffic as eastbound lanes; however, peak volumes are much higher in the eastbound direction due to the concentration of traffic returning from the mountains on Sunday afternoons. Peak traffic volumes in the westbound direction are spread out more over Friday afternoons, Saturday mornings, and Sunday mornings. As noted in response to comment <a href="#">IND-07-A</a>, CDOT intends to implement westbound improvements in the Twin Tunnels area and capacity expansion in the westbound direction is included in the <a href="#">I-70 PEIS Preferred Alternative</a>, which CDOT and FHWA approved in the I-70 PEIS Record of Decision in June 2011. However, as noted in <a href="#">Section 1.7</a> of the EA, eastbound improvements in the Twin Tunnels area were prioritized because eastbound congestion is more pronounced and occurs over a longer period, and crash history indicates greater safety concerns in the eastbound direction. Westbound improvements are more costly and complex to construct due to the rock cuts and creek impacts that will result. Making incremental improvements, such as eastbound-only improvements, is consistent with the I-70 PEIS adaptive management approach to improving the Corridor in response to evolving transportation conditions and needs.</p>
 <p><b>I-70 Twin Tunnels Public Hearing</b>  <b>July 25, 2012</b>  <b>Comment Form</b></p> <p>Please provide any comments you have about the I-70 Twin Tunnels Project. Your input is valuable to this project and will be evaluated by CDOT and FHWA in the decision making process. Please consider the questions listed as you prepare your comments. Comments may also be submitted at <a href="http://www.coloradodot.info/projects/i70twintunnels">http://www.coloradodot.info/projects/i70twintunnels</a>.</p> <p>Name: <u>DONNA MOODY</u></p> <p>Address: _____ City: <u>Dumont</u> Zip: _____</p> <p>Organization: _____ Phone Number: _____</p> <p><input type="checkbox"/> Mark box if you do not wish to have your address published in the final Decision Document</p> <p><b>COMMENTS</b></p> <p><b>Do you have any comments on the project's Purpose and Need or CDOT's Proposed Action?</b></p> <p><u>I THINK THIS PROJECT IS EQUIVALENT TO A BAND-AID</u>  <u>WEST Bound IS NOT ADDRESSED &amp; CARRIES EQUAL TRAFFIC</u></p>	<p><b>Continued on next page</b></p>

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments**

<b>Source:</b> Comment Sheet	<b>Name:</b> Donna Moody (continued)
<b>Document Number:</b> IND-16	<b>City, Zip Code:</b> Dumont, 80436
B	IT MAKES MORE SENSE TO DAYLIGHT BOTH TUNNELS & NOT HAVE THE MAG CHLORIDE WALL-CLEANING ISSUE.
C	ALSO - WHY DO YOU BLOCK OFF 3 MILES OF LANES & THEN HAVE NO WORK BEING DONE. IT'S NOT good FOR YOUR CREDIBILITY WHEN YOU HAVE "MEN WORKING" SIGNS UP. WRONG - WRONG SOLUTION
D	<p><b>Questions to Consider:</b></p> <ul style="list-style-type: none"> <li>• Do you think this project is necessary? Will it provide benefits to you? <i>No No</i></li> <li>• Is the Proposed Action the right solution? <i>No</i></li> <li>• Do you have comments about the way the Proposed Action was developed?</li> <li>• What do you think of the potential design variations? <ul style="list-style-type: none"> <li>• Does the 50-foot or 56-foot roadway width make more sense? <i>What happens when W-BOUND NEED WIDENING?</i></li> <li>• Do you think we should align the new lane toward the creek or toward the median?</li> <li>• Should the new lane operate as a managed lane during peak periods?</li> </ul> </li> <li>• What do you think about CDOT doing nothing in the area (The No Action)? <i>BETTER</i></li> </ul>

**Responses****Response to IND-16 (continued)**

- B. As noted in response to comment [IND-04-A](#), removing the tunnels entirely was an option studied and ultimately eliminated from further consideration as part of the [I-70 PEIS](#) and the subsequent [Twin Tunnels visioning workshop](#). As noted in the I-70 PEIS, the Twin Tunnels is a important land bridge for wildlife crossing I-70. Additionally, removing the tunnels would likely have adverse environmental impacts, generate large quantities of waste materials, and create an area prone to rockslides and other geologic hazards that would be difficult to manage.

The Twin Tunnels visioning workshop, conducted in 2011, concluded removing the tunnels would create excessive environmental impacts, have an unreasonably high cost, and would require closure of the entire interstate during construction. For these reasons, the visioning workshop did not carry this alternative forward, consistent with the conclusions of the I-70 PEIS. As a result of these previous analyses, demolishing the tunnels entirely was not an alternative evaluated as part of the Twin Tunnels EA.

- C. CDOT routinely closes lanes to traffic for maintenance or pre-construction purposes, and the work being performed may not always be obvious to passers-by. In recent months, CDOT closed one eastbound lane through the Twin Tunnels to install electronic variable message signs that will provide information about the Twin Tunnels project, and the eastbound left lane was closed to traffic due to repairs required for a sinkhole at the Hidden Valley Interchange. Additionally, CDOT has been surveying near the Twin Tunnels and performing stability checks on the tunnels, as well as performing routine tunnel maintenance on the westbound tunnel lining. During the tunnel maintenance efforts, CDOT tested the detour for the eastbound direction of travel.

- D. Your opposition to the Proposed Action is noted. Regarding the need and timing of westbound widening, [Section 2.8](#) in the EA explains that the Twin Tunnels project has been developed to preserve options for future westbound widening. The project does not preclude future westbound highway or tunnel improvements, future Advanced Guideway System (AGS) transit improvements, or realignment of the highway to support a higher design speed, as identified in I-70 PEIS. Expansion of the eastbound tunnel is being planned to fit future transportation facilities that may require expansion of the westbound bore and/or a third bore through the mountain. See also response to comment [IND-07-A](#).

*Continued on next page*

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Comment Sheet	<b>Name:</b> Donna Moody (continued)
<b>Document Number:</b> IND-16	<b>City, Zip Code:</b> Dumont, 80436

Do you have any comments on the project's environmental impacts?

MORE LANES = MORE MAG CHLORIDE & FIND ANOTHER WAY TO DEAL w/ ICE.

DO YEARS AGO I MADE IT TO TOWN EVERY DAY- w/ mag CHLORIDE THE ROAD CLOSES w/ Y2" OF SNOW.

D

**Questions to Consider:**

- Do you have concerns about specific environmental impacts? — MAG CHLORIDE
- Do you have concerns about construction impacts? YES
- Will the mitigation proposed be effective in reducing impacts? NO
- Do you have any other ideas that we should consider for mitigation?

Do you have any other comments you would like us to consider before we move forward with a decision on the Proposed Action?


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Please mail comment forms to:

David Singer  
Colorado Department of Transportation  
425C Corporate Circle  
Golden, CO 80401

**Response to IND-16 (continued)**

- D. You are correct that adding lane miles will require additional maintenance and more use of snow and ice removal agents. CDOT has explored a number of snow and ice removal options and has increased the application of liquid deicers, such as magnesium chloride, because it sticks to the road better than traction sand and salt (sodium chloride) and has a longer-lasting deicing effect. Additionally, less of the chemical is needed to keep roads from freezing in comparison to salt, and it has a lower freezing point than salt. The use of magnesium chloride reduces sediments, such as sand and salt, from entering Clear Creek during runoff. Magnesium chloride is less corrosive than calcium chloride or sodium chloride for steel and concrete. Additionally, magnesium chloride presents fewer impacts to water quality than sanding, which can increase sedimentation of adjacent streams.

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter	<b>Name:</b> Richard Strauss
<b>Document Number:</b> IND-17	<b>City, Zip Code:</b> Arvada,

**"Colorado TramRide"**  
Cable Propelled Tramway System

Cable propelled tramway transportation is a creative, proven and feasible alternative so I am submitting the following comments as a companion with the I-70 Twin Tunnels improvement project to help reduce, divert and resolve the I-70 Congestion.

**Build two year-round, high speed and maximum carrying capacity cable propelled tramway systems from mountain towns, one between designated wilderness areas from approximately Grant (Hwy 285) to Keeler diversion right-of-way and one between designated wilderness areas from approximately Arvada Rd to Winter Park on or near the Moffatt railroad right-of-way.**

See <http://gondolaproject.com/> for information and feasibility examples.

According to some of [gondolaproject.com](http://gondolaproject.com/)'s articles and images, long distance tramways have been accomplished. Besides the tramways, lifts and gondolas at various Colorado ski areas, there are gondolas at Estes Park and in historical mining operations throughout the mountains of Colorado. The Moffatt and Roberts locations are t designated areas on the Front Range and useful for transportation purposes.

**"Colorado TramRide"** cable propelled tramway system benefits transportation to:

- 1 Divert, alleviate and reduce traffic from I-70 to these alternative routes;
- 2 Use environmentally green, clean and traffic pollution reduced or eliminated cable propelled transportation;
- 3 Build with comparative cost effectiveness, minimal footprint and maximum environmental sensitivity;
- 4 Create jobs in Colorado with aerial tramways designed, developed and manufactured by Grand Junction <http://www.leitner-poma.com/> ;
- 5 Provide a positive aesthetic as well as transportation solution;
- 6 Enable recreationally, socially and sensory stimulative experiences en route to and from the original destination;
- 7 Accommodate passenger comfort, security and safety;
- 8 Impact economies of Arvada, Grant area, Eldora, Breckenridge, Keystone, Winter Park, Grand Junction, and the surrounding areas; and
- 9 Fund in partnership with private interests.

Will you please consider the feasibility of this proposal as an alternative option to or companion project with the I-70 Twin Tunnels Improvement Project?

Thank you and with regards,

Richard Strauss  
Arvada, CO  
303-456-0619

**Response to IND-17**

A. CDOT evaluated a range of transportation solutions in the I-70 Mountain Corridor PEIS. A transit solution in the form of an Advance Guideway System (AGS) was included in the approved [I-70 PEIS Record of Decision](#) and is CDOT's planned transit solution for the corridor. The I-70 PEIS concluded that the AGS achieves competitive travel times, addresses I-70 highway congestion, and increases travel capacity better than other transit options. The selection of the specific technology to be used for AGS will be made in subsequent feasibility studies and related Tier 2 processes.

As explained in [Appendix F, Response to Comments](#), in the I-70 PEIS Record of Decision, to be considered a feasible transit option, the mode of transit needs to be part of the solution to reduce congestion and increase capacity on the I-70 Mountain Corridor, and the system needs to have competitive travel times and be able to accommodate the harsh mountain environment and steep grades. While the tram technology might accommodate the steep grades, the wind speeds through the I-70 Mountain Corridor would render the tram inoperable at times. It does not provide travel times competitive with highway travel times and, therefore, does not adequately address I-70 highway congestion. A tram system does not have the ability to meet the peak-hour peak-direction capacity requirement, which is the minimum capacity needed to adequately provide transit service and meaningfully reduce highway congestion in the peak hour and peak direction.

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-18	<b>Name:</b> Pete Helseth <b>City, Zip Code:</b> Evergreen,	<b>Response to IND-18</b> A. Comment noted.  B. As described in <a href="#">Section 2.1.2</a> of the FONSI, CDOT will operate the new third lane as a managed lane and will charge a fee for its use only during peak congestion periods, which typically occur on Sundays and holidays during the summer and winter months, to maintain reliable travel times in the managed lane. The lane will operate as a general purpose lane, free of charge, at all other times. Its primary purpose is to increase mobility and travel reliability during peak periods (not to generate revenue).  As noted in response to comment <a href="#">IND-08-D</a> , the I-70 Mountain Corridor experiences a high existing vehicle occupancy of 2.8 persons per vehicle and, therefore, providing priority to carpools would not serve as the solution for improving capacity and reducing congestion in the Corridor since most of the cars traveling in the peak periods are carpools. In the <a href="#">I-70 PEIS</a> , CDOT and FHWA evaluated alternatives to provide new high-occupancy vehicle (HOV)/high-occupancy toll (HOT) lanes through the Corridor that could be used only for buses, carpools, or low-occupancy vehicles that have paid a toll; the evaluation found that HOV/HOT lanes alone would not be an effective way to control congestion because of the already high vehicle occupancy.  Additionally, as concluded in <a href="#">Section 3.2, Social and Economic Resources</a> , in the EA and as described in the response to comment IND-08-C, the charge for use of the managed lane is not expected to negatively affect local or regional travelers because it will operate only during peak periods, which are often avoided by local travelers, and the two general purpose lanes will remain free of charge.
David,  A [ I'm generally quite satisfied with the design engineering of the project, especially having had the chance to participate in its development.  But I haven't been involved in the discussions about the Managed Lane, and would like to provide the following comment on it for the EA:  B If a Managed Lane is indeed implemented, I think its use should be predicated on increasing mobility. To that end, a priority should be given to vehicles that are carrying the most occupants. I don't like the idea of a Managed Lane's use being fee-based, as in the case of a so-called Lexus Lane.  Thanks,  Pete Helseth Evergreen, CO		

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments**

<b>Source:</b> Email	<b>Name:</b> Bruce Brown
<b>Document Number:</b> IND-19	<b>City, Zip Code:</b> Idaho Springs, 80452

Mr. Singer:

I appreciated the informative CDOT presentation regarding the twin tunnels on Wednesday night. Can more information be provided regarding the anticipated use of Explosives.

- A [ ] A. What is the expected frequency of the use of explosives?
- B [ ] B. How far will the use be heard into the Town of Idaho Springs and at what decibel rate?
- C [ ] C. It was stated that the use of explosives could impact the integrity of the existing Westbound bore. What is the 'worst case scenario' for impacting the structural integrity of the westbound bore during construction that presumably could expand the scope of construction and cause the Westbound traffic to be closed.

Thanks for your help.

Bruce Brown

**Responses****Response to IND-19**

- A. As described in [Section 3.1.6](#) in the EA (and clarified in [Section 4.2.1](#) of this document), CDOT will conduct blasting activities every 4 to 6 hours to expand the tunnel bore. Blasting during peak traffic periods will be limited to the extent possible. These peak periods are anticipated to be Friday afternoons and early evenings, Saturday mornings, and Sunday afternoons and evenings.
- B. CDOT is unable to predict exact blasting noise levels with the current available information. As noted in [Section 3.9](#) of the EA, at the beginning of construction, the blasting will be done at both ends of the portal. As the work progresses, the blasting will be inside of the tunnel. It is anticipated noise from the blasting inside the tunnel will be largely muffled by the mountain. The closest residential structure is 750 feet from the tunnel portal and is not expected to be impacted by the air blast overpressure. However, blasting noise levels will be noticeable and bothersome to humans and wildlife in the vicinity. As noted in [Table 3-1](#) in this FONSI, during initial blasting at the entrance to the west side of the east portal, CDOT will monitor 24-hour noise levels at sensitive receptors to determine if additional temporary mitigation is required.
- C. As discussed in response to comment [IND-15-A](#), if the westbound tunnel is damaged during eastbound tunnel blasting, CDOT will route westbound traffic onto the detour route (CR 314) near Hidden Valley and reduce traffic to one lane in each direction. Additionally, ahead of construction, CDOT will develop an Incident Management Plan, which will identify alternate routes that motorists can travel to avoid I-70 if travel is reduced to one lane of travel in each direction.

CDOT is performing routine tunnel maintenance on the westbound tunnel lining from September to October 2012. During part of that time, the westbound tunnel will be closed to traffic, and westbound traffic will need to be routed onto the eastbound travel lanes. CDOT is constructing a crossover at this time and will maintain the crossover in place until blasting of the eastbound tunnel is completed in October 2013.

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments**

<b>Source:</b> Email	<b>Name:</b> Lorna Idol
<b>Document Number:</b> IND-20	<b>City, Zip Code:</b> Evergreen, 80437

Hello Mr. Singer,

Following are the questions I raised at the Public Hearing for I-70 Twin Tunnels Project on July 25, 2012:

- A 1. What will be the percentage of Coloradans employed by the Wisconsin-based contractor? [A high percentage is vital to growth for our state economy.]
- B 2. No mention was made of provision for biking lanes in the finished project? This consideration was only included for the detour project. Why was this overlooked? Will it be included? [We have a tremendous amount of bikers in our mountain areas and numerous bikeathons and races.]
- C 3. Regarding the proposed managed lane with a toll fee about 5% of the time on Sundays, why not make this an HOV lane instead? [In the latter case, access to the faster lane would be more equitable across populace income levels, and HOV access could be used when a car has four or more passengers.]

**Responses****Response to IND-20**

- A. Edward Kraemer and Sons, Inc., the general contractor on the Twin Tunnels project, was founded in Wisconsin, and the company has had a presence in Colorado since 1984, when the Castle Rock, Colorado, office was opened. The Twin Tunnels project will be managed and staffed by the Castle Rock office.
- B. Consistent with the Clear Creek County Greenway plan, bicycle and pedestrian accommodations along I-70 in the Twin Tunnels project area are provided along the frontage road (CR 314) alignment. As described in [Section 2.9.2](#) in the EA, when I-70 is reopened after construction, the west and east portions of the detour route connecting I-70 to CR 314 will be removed, and CR 314 will be restored to its pre-detour condition with one travel lane in each direction and a buffer-separated shared-use path for pedestrian and bicycle use on the north side of the road. Pedestrians and bicyclists will be rerouted back to the existing trail location over the Scott Lancaster Memorial Bridge. The old US 40/game check area will be restored to a local bicycle trail.
- C. As noted in response to comment [IND-08-D](#), the I-70 Mountain Corridor experiences a high existing vehicle occupancy of 2.8 persons per vehicle and, therefore, a carpool lane would not serve as the solution for improving capacity and reducing congestion in the Corridor. In the [I-70 PEIS](#), CDOT and FHWA evaluated alternatives to provide new high-occupancy vehicle (HOV)/high-occupancy toll (HOT) lanes through the Corridor that could be used only for buses, carpools, or low-occupancy vehicles that have paid a toll; the evaluation found that HOV/HOT lanes alone would not be an effective way to control congestion because of the already high vehicle occupancy. As noted in response to comment [IND-08-C](#) and as described in [Section 2.1.2](#) of the FONSI, CDOT will operate the new third lane as a managed lane and will toll the lane in peak congestion periods to maintain a reliable travel time in the managed lane. CDOT considered the potential for the managed lane to disproportionately affect low-income residents and determined that the charge for use of the managed lane is not expected to negatively affect local or regional travelers because it will operate only during peak periods, which are often avoided by local travelers, and the two general purpose lanes will remain free of charge. This analysis is provided in [Section 3.2, Social and Economic Resources](#), and [Section 3.3, Environmental Justice](#), in the EA.

*Continued on next page*

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-20	<b>Name:</b> Lorna Idol (continued) <b>City, Zip Code:</b> Evergreen, 80437	<b>Response to IND-20 (continued)</b>  D 4. Regarding the future decision to be made regarding adding a fill wall versus narrowing the median, which option is less expensive?  E 5. Would the proposed fill wall create the same types of weather problems with severe road icing as does the use of flyways (raised highways) in Texas?  F 6. Why hasn't a railroad option been considered? What is the difference in cost to use the existing railway system to Winter Park and adding new railways in places on I-70 where there are not railways? This railway could run from DIA to Silverthorne and greatly reduce the number of tourist traffic on the I-70 corridor?  G Please advise me as to who will have access to the public hearing questions that we raised. Thank you for your consideration of my questions.
Lorna Idol		<p>D. As described in <a href="#">Section 2.1.3</a> of this FONSI, shifting the roadway alignment into the center median instead of widening to the outside reduces construction costs. The estimated cost savings is \$5 million.</p> <p>E. Ice formation on bridges and elevated roadways is often a result of cold air that flows under the structures, reducing the temperature of the concrete or asphalt and creating a condition that allows moisture to freeze, particularly when temperatures hover close to freezing for longer periods of time. The only segment in the project area where I-70 is elevated is the bridge over Clear Creek at Hidden Valley and the Hidden Valley Interchange. The roadway remains on grade throughout the rest of the project area. Therefore, the concern of icing as it relates to elevated flyways is not applicable in this setting.</p> <p>F. During the development of the <a href="#">I-70 PEIS Preferred Alternative</a>, several modes of transit, including rail, were examined to determine the viability of their operations and their ability to reduce congestion in the I-70 Mountain Corridor. To address the purpose and need for the I-70 PEIS, it was recognized by the CDOT, FHWA, and local communities that a fixed guideway system needs to be part of the solution and that the system needs to have competitive travel times and be able to accommodate the harsh mountain environment and steep grades.</p> <p>The I-70 PEIS studied a conventional rail alternative, called the Rail with Intermountain Connection Alternative; expansion of the existing rail corridor from Denver through the Moffat Tunnel, Winter Park, and Glenwood Springs; and increasing the frequency of service for the Winter Park ski train that was discontinued in 2009. As described in the I-70 PEIS, none of these transit alternatives was selected as the transit component of the I-70 PEIS Preferred Alternative. The Rail with Intermountain Connection alternative would use existing railways and add new railways along I-70; it would cause more environmental impacts than other transit alternatives. Expansion of the existing rail corridor through the Moffat Tunnel would not meet the needs of the I-70 Mountain Corridor. Increasing the Winter Park ski train service frequency is infeasible due to the volume of freight traffic through the Moffat Tunnel. For these reasons, new transit service is necessary to meet the needs of the I-70 Mountain Corridor.</p>

*Continued on next page*

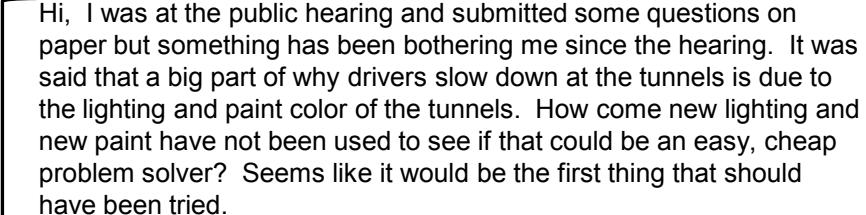
**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments**

<b>Comments</b>	<b>Responses</b>
<p><b>Source:</b> Email  <b>Document Number:</b> IND-20</p> <p><b>Name:</b> Lorna Idol (continued)  <b>City, Zip Code:</b> Evergreen, 80437</p>	<p><b>Response to IND-20-F (continued)</b></p> <p>F. (continued)</p> <p>The transit component of the I-70 PEIS Preferred Alternative provides an Advanced Guideway System (AGS) as a long-term solution to improve capacity and reduce congestion in the Corridor. The technology that addresses the AGS performance criteria could be a currently undiscovered and unproven technology or it could be a variation of an existing rail technology. CDOT is currently conducting a study to further define the feasibility of the AGS and its technology and to address the funding, power supply, operations, ridership, costs/benefits, and other related issues.</p> <p>The I-70 PEIS Preferred Alternative focuses on transit between the Eagle County Airport and the Jeffco Center Station near the I-70 and C-470 interchange. CDOT is currently conducting an Interregional Connectivity Study to examine the feasibility of connecting statewide rail lines to the Regional Transportation District (RTD) FasTracks system, which includes service to Denver International Airport (DIA). These connections would serve trips between Silverthorne and DIA as noted in your comment.</p> <p>G. All comments submitted during the public comment period are contained in this <b>Table 5-2</b> and are part of the public record.</p>

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Email <b>Document Number:</b> IND-21	<b>Name:</b> Dan Ebert <b>City, Zip Code:</b> Idaho Springs	<p><b>A</b></p> <p>I am the operator of both Two Brothers Deli and the Buffalo Restaurants in Idaho Springs. Last week during the stability check on the Twin Tunnels Traffic was stopped east bound before the Western most exit in Idaho Springs. During these stoppages cars were kept out of Idaho Springs for fear that Colorado Blvd. would back up. At a meeting discussing this plan I was told that this is a test for 2013 tunnel construction and traffic management. My main concern is the east bound traffic and how it reacts after a stoppage. Once released they will have one thing on their mind "Lets Get Out Of Here". Thus not stopping in Idaho Springs to spend money for fear of getting trapped again.</p> <p>If this is the plan for next summer and stoppages are scheduled for specific times, they have to be spaced such that the traveling public knows they can exit, shop, eat, etc. without running the risk of getting caught again. Stoppages need to be spaced at least four hours apart and the travelers notified with signage. Simply saying "expect 20 minute delays" is not adequate.</p> <p>Dan Ebert</p>
<b>Response to IND-21</b> <ul style="list-style-type: none"> <li>A. As described in <a href="#">Section 3.1.6</a> in the EA (and clarified in <a href="#">Section 4.2.1</a> of this document), CDOT will conduct blasting activities every 4 to 6 hours to expand the tunnel bore. Tunnel blasting requires that all traffic be stopped for approximately 10 minutes before and 10 minutes (eastbound) to 20 minutes (westbound) after each detonation (although this may increase to 30 minutes under certain circumstances).</li> </ul> <p>As noted in <a href="#">Chapter 5</a> of this FONSI, CDOT is working with the Project Leadership Team and Technical Team during the design and construction phases to obtain input and expertise on public involvement and education methods and scope. CDOT continues to discuss at these meetings how to ensure that travelers can enter Idaho Springs and access businesses during a closure through signage and other public information options, while discouraging cut-through traffic by travelers trying to bypass the closure of I-70.</p>		

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

Source: Email Document Number: IND-22	Name: Sarah McFadden City, Zip Code: Unknown	<b>Response to IND-22</b> A. As noted in response to comment <a href="#">IND-03-B</a> , CDOT is considering options for tunnel lining that are brighter and more reflective, as well as creating an overhang entrance to the tunnel, which will allow more options to improve lighting for the tunnel entrance, which has been identified as a factor causing slowing through the tunnels. Over the years, CDOT has changed both the paint and the lighting in the tunnel to try to improve the “black hole” effect of the Twin Tunnels. The walls have been painted a lighter color, but the lining material becomes flat and dulls with exhaust and other vehicle emissions. Lighting at the tunnel has been upgraded and various lighting arrangements have been attempted. However, the flat face of the tunnel entrance makes it difficult to effectively light the interior, while not creating glare at the exterior entrance. Because of these difficulties in improving the “black hole” tunnel effect, CDOT has determined that tunnel widening, in addition to lighting improvements, is required.
<b>A</b>  Hi, I was at the public hearing and submitted some questions on paper but something has been bothering me since the hearing. It was said that a big part of why drivers slow down at the tunnels is due to the lighting and paint color of the tunnels. How come new lighting and new paint have not been used to see if that could be an easy, cheap problem solver? Seems like it would be the first thing that should have been tried.	Thanks, Sarah McFadden	

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Letter <b>Document Number:</b> IND-23	<b>Name:</b> Dick Braman <b>City, Zip Code:</b> Idaho Springs, 80452	<b>Response to IND-23</b> <p>A. As noted in the response to your comment <a href="#">IND-12-A</a>, CDOT is aware of the public's concern over congestion and travel delays during construction. CDOT has designed the Proposed Action to minimize the length of time the detour will be in place. The detour is approximately 1 mile long and will operate at 35 mph; it has sufficient capacity to handle I-70 traffic during weekdays and non-peak weekend hours. As described in <a href="#">Section 3.1</a> in the EA, CDOT has conducted traffic analysis to evaluate the delays that could occur during construction and has concluded that weekday traffic should be largely unaffected as a result of the detour route and speeds. Stoppages during tunnel blasting will increase delays, but queues resulting from traffic closures for blasting should dissipate within an hour. The worst-case weekend peak traffic delays will be approximately 30 minutes longer than existing travel times. CDOT fully evaluated the impacts of construction and has determined the mobility and safety benefits gained under the Proposed Action offset the temporary impacts, and CDOT is pursuing final design and construction of the Proposed Action.</p> <p>CDOT did conduct geotechnical testing over the summer (2012) that required traffic to temporarily stop at the tunnel. This offered an opportunity to test traffic stoppages for the upcoming construction project. As the testing progressed, CDOT continued to improve upstream signing placement as well as its notification to communities in the corridor. CDOT understands the need to minimize the length of closures. These practices will be applied to the Twin Tunnels detour required in 2013.</p>
<p>Mr. David Singer CO Dept. of Transportation 425 C. Corporate Circle Golden, CO 80401</p> <p>July 31, 2012</p> <p>Dear Mr. Singer,</p> <p>While you have created a solution to the weekend traffic congestion with your proposal of adding a third lane to the traffic on I-70 Eastbound, you have also created a monumental problem of traffic congestion on I-70 West of the tunnels during the construction period of perhaps 10 months or more. This is due to the fact that the by-pass road now under construction is totally inadequate even if you are able to maintain a speed of 30 to 35 MPH, which considering the tortuous route involved, seems unlikely. Naturally, this is going to back up traffic on the I-70 each and every day, perhaps to Bakerville. A car will be lucky to maintain a 10 MPH speed where a 2 hour trip from Georgetown east to the tunnels will be the norm. I think you will agree that this is unacceptable. Since it will take a few more weeks to complete this by-pass road, I would like to propose a test of its capacity for a one day trial to see what will actually happen. It will probably be worthwhile to photograph this event from a helicopter as the congestion builds. By noon on the day of the test a reasonable person, such as yourself, will want to examine my alternate proposal more carefully.</p> <p>Sincerely,</p>  Dick Braman	<p>Dick Braman 4135 Rd. 275 Idaho Springs, CO 80452</p>	

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Letter <b>Document Number:</b> IND-24	<b>Name:</b> Quincy Wagstaff <b>City, Zip Code:</b> Denver, 80206	<b>Response to IND-24</b> A. Comment noted. Please see <a href="#">Section 1.5</a> in this FONSI for information about why the project is needed. FHWA has approved the project and, as described in <a href="#">Chapter 8</a> in this FONSI, has determined the Preferred Alternative will have no significant impact on the environment.
<p>July 15, 2012</p> <p>David Singer Colorado Department of Transportation 425C Corporate Circle Golden, CO 80401</p> <p><u>Re: I-70 Twin Tunnels EA</u></p> <p>Dear Mr. Singer,</p> <p>In the words of the great Bert Kalmar,</p> <p>A [ <i>I don't know what's in your E.A. - It makes no difference anyway - Whatever it is, I'm against it! No matter what it is Or who commenced it I'm against it!</i> ]</p> <p>[ <i>Your proposition may be good But let's have one thing understood Whatever it is, I'm against it! And even when you've changed it Or condensed it I'm against it!</i> ]</p> <p>Sincerely,</p> <p><i>Q.A. Wagstaff</i> Quincy A. Wagstaff 3317 E. Colfax Ave. Denver, CO 80206</p>		

**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Public Hearing	<b>Name:</b> Dr. Lorna Idol
<b>Document Number:</b> IND-25	<b>City, Zip Code:</b> Unknown

REPORTER'S TRANSCRIPT OF PUBLIC HEARING  
HEARING DATE: Wednesday, July 25, 2012

Thank you. Hello. I'm Lorna Idol. I'm running for the Colorado House of Representatives from District 22, which is Jefferson County on the mountainside of Clear Creek at Monmouth where the county divides. So it's Evergreen, Bergen Park, Golden, Ken Caryl, Deckers, et cetera.

A [I want to thank the team. I know it's a huge project, you've done some very hard work, and we thank you for that. We ask you to please make the top priority be the safety of our citizens.]

B [I have a couple of questions that I would like to ask, and I'll write them to you again as well. One of my questions is, I understand that the construction company that was -- the contractor company that was selected is based in Wisconsin but has been in Colorado as their branch for 30 years. So my question is, what percentage of the people who are working on this project will be Coloradans? And I think we have to -- that's a very important question as we work with our economy and our state.]

C [My second question is, what considerations have been put into place for the safety of the bicyclists. Once the new road is there, is there a bicycle lane? I understood there was one for the detour, but I wasn't clear on if there was one in the new proposed tunnel for the bicyclists. We have huge bicycle races and rides over the mountain in the summertime, and we have to take that into consideration.]

D [I wondered about the mitigation lane as to why you didn't want to do the HOV concept instead, which is where instead of paying to drive in that lane where we differentiate between those who have more money and those who have less, that we might want to think about HOV lanes where you can drive in if you're filling all the seats in your car, which would produce fewer cars going down to the road in the past.]

**Response to IND-25**

A. Comment noted. As described in [Section 1.4](#) in the EA, part of the purpose of the Twin Tunnels project is to improve eastbound highway safety in the Twin Tunnels area of the I-70 Mountain Corridor. A high number of crashes occur in the project area related to tight curves, poor sight distance, inclement weather/poor road conditions, and congested traffic conditions.

The Proposed Action will improve safety by straightening the curve immediately west of Hidden Valley to bring the design speed up from 45 mph to 50 mph and to maintain the posted speed of 55 mph, consistent with the adjoining sections of the highway. By improving speed consistency and curve geometry, the curve modification is projected to reduce crashes by 75 percent in this location compared to the No Action. Throughout the 3-mile project limits, the Proposed Action is anticipated to decrease crashes by 20 to 35 percent. [Section 3.1.6](#) in the EA provides more detailed information on safety benefits of the Proposed Action.

B. As noted in response to your comment [IND-20-A](#), Edward Kraemer and Sons, Inc., the general contractor on the Twin Tunnels project, was founded in Wisconsin, and has had a presence in Colorado since 1984, when the Castle Rock, Colorado, office was opened. The Twin Tunnels project will be managed and staffed by the Castle Rock office.

C. As noted in response to your comment [IND-20-B](#), bicycle and pedestrian accommodations along I-70 in the Twin Tunnels project area are provided along the frontage road (CR 314) alignment, consistent with the Clear Creek County Greenway plan. The Proposed Action does not include bicycle lanes on I-70 through the Twin Tunnels. As described in [Section 2.9.2](#) in the EA, when I-70 is reopened after construction, the west and east portions of the detour route connecting I-70 to CR 314 will be removed, and CR 314 will be restored to its pre-detour condition with one travel lane in each direction and a buffer-separated shared-use path for pedestrian and bicycle use on the north side of the road. Pedestrians and bicyclists will be rerouted back to the existing trail location over the Scott Lancaster Memorial Bridge. The old US 40/game check area will be restored to a local bicycle trail.

D. As noted in [IND-08-D](#) and in response to your comment [IND-20-C](#), the I-70 Mountain Corridor experiences a high existing vehicle occupancy of 2.8 persons per vehicle and, therefore, a carpool lane would not serve as the solution for improving capacity and reducing congestion in the Corridor.

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**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Public Hearing <b>Document Number:</b> IND-25	<b>Name:</b> Dr. Lorna Idol (continued) <b>City, Zip Code:</b> Unknown	<b>Response to IND-25 (continued)</b>  D. (continued) As noted in <a href="#">IND-08-C</a> and as described in <a href="#">Section 2.1.2</a> of this FONSI, CDOT will operate the new third lane as a managed lane, and will toll the lane in peak congestion periods to maintain a reliable travel time in the managed lane.  CDOT considered the potential for the managed lane to disproportionately affect low-income residents and determined that the charge for use of the managed lane is not expected to negatively affect local or regional travelers because it will operate only during peak periods, which are often avoided by local travelers, and the two general purpose lanes will remain free of charge. This analysis is provided in <a href="#">Section 3.2, Social and Economic Resources</a> , and <a href="#">Section 3.3, Environmental Justice</a> , in the EA.  E. As noted in the response to your comment <a href="#">IND-20-D</a> , shifting the roadway alignment into the center median instead of widening to the outside will provide an estimated cost savings of \$5 million.  F. Construction of retaining walls in the Twin Tunnels project area is safe and will follow engineering design standards and account for geotechnical conditions in the project area. CDOT is aware of the challenges that the I-70 Mountain Corridor presents, including the amount of precipitation, large temperature ranges, and geologic constraints. CDOT has conducted geotechnical investigations throughout the Twin Tunnels project area and will design and construct the retaining walls to account for those conditions and incorporate design features that minimize slope excavation and follow natural topography.  G. As described in <a href="#">Section 2.1.1</a> in this FONSI, CDOT and FHWA have determined that a standard 50-foot roadway section will be constructed throughout the project limits as the Preferred Alternative. The 50-foot roadway width does not include a cantilevered section, or overhang. See also the response to your comment <a href="#">IND-20-E</a> for additional information about why the concern of icing as it relates to elevated flyways is not applicable to the Twin Tunnels project.
		<i>Continued on next page</i>

**Table 5.2.** Public and Agency Comments Received and Responses to Comments

## Comments

<b>Source:</b> Public Hearing <b>Document Number:</b> IND-25	<b>Name:</b> Dr. Lorna Idol (continued) <b>City, Zip Code:</b> Unknown	<p><b>Response to IND-25 (continued)</b></p> <p>H. As noted in the response to your comment <a href="#">IND-20-F</a>, during the development of the <a href="#">I-70 PEIS Preferred Alternative</a>, several modes of transit, including rail, were examined to determine the viability of their operations and their ability to reduce congestion in the I-70 Mountain Corridor. To address the purpose and need for the I-70 PEIS, it was recognized by CDOT, FHWA, and local communities that a fixed guideway system needs to be part of the solution and that the system needs to have competitive travel times and be able to accommodate the harsh mountain environment and steep grades.</p> <p>The I-70 PEIS studied a conventional rail alternative, called the Rail with Intermountain Connection Alternative; expansion of the existing rail corridor from Denver through the Moffat Tunnel, Winter Park, and Glenwood Springs; and increasing the frequency of service for the Winter Park ski train that was discontinued in 2009. As described in the I-70 PEIS, none of these transit alternatives was selected as the transit component of the I-70 PEIS Preferred Alternative. The Rail with Intermountain Connection alternative would use existing railways and add new railways along I-70; it would cause more environmental impacts than other transit alternatives. Expansion of the existing rail corridor through the Moffat Tunnel would not meet the needs of the I-70 Mountain Corridor. Increasing the Winter Park ski train service frequency is infeasible due to the volume of freight traffic through the Moffat Tunnel. For these reasons, new transit service is necessary to meet the needs of the I-70 Mountain Corridor.</p> <p>The transit component of the I-70 PEIS Preferred Alternative provides an Advanced Guideway System (AGS) as a long-term solution to improve capacity and reduce congestion in the Corridor. The technology that addresses the AGS performance criteria could be a currently undiscovered and unproven technology or it could be a variation of an existing rail technology. CDOT is currently conducting a study to further define the feasibility of the AGS and its technology and to address the funding, power supply, operations, ridership, costs/benefits, and other related issues.</p>
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**Table 5.2. Public and Agency Comments Received and Responses to Comments****Comments****Responses**

<b>Source:</b> Public Hearing <b>Document Number:</b> IND-25	<b>Name:</b> Dr. Lorna Idol (continued) <b>City, Zip Code:</b> Unknown	<b>Response to IND-25 (continued)</b> (continued) <p>I wanted to know when you would have the projected cost figures for us. And I just want to remind everybody that the Colorado Department of Transportation is not funded through the state funds. It is funded primarily by the tax on gasoline, both state tax and the federal tax. But our citizenry has to know the project costs. So thank you so much for allowing me to raise questions, and thank you for listening to me.</p> <p>The I-70 PEIS Preferred Alternative focuses on transit between the Eagle County Airport and the Jeffco Center Light Rail Station near I-70 and C-470. CDOT is currently conducting an Interregional Connectivity Study to examine the feasibility of connecting statewide rail lines to the RTD FasTracks system, which includes service to DIA. These connections would serve trips between Silverthorne and DIA as noted in your comment.</p> <p>I. CDOT estimates the total cost of the project to be just under \$100 million.</p> <p>To clarify your comment on CDOT's funding, you are correct that CDOT's budget comes primarily from fees and taxes paid by the users of the state and national transportation systems, including motor fuel taxes as well as registration fees and permits, such as overweight/oversized, access permits, or right-of-way permits, and not from the state's general fund.</p>
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**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments**

<b>Source:</b> Public Hearing	<b>Name:</b> Tim Toohey
<b>Document Number:</b> IND-26	<b>City, Zip Code:</b> Unknown

REPORTER'S TRANSCRIPT OF PUBLIC HEARING  
HEARING DATE: Wednesday, July 25, 2012

My name is Tim Toohey. I'm speaking on my own behalf as a fisherman and a conservationist. I have fished Clear Creek for over 30 years. I have fished the stream and affected area at least four or five times in the last couple years. I've caught many browns in this area. It isn't the best spot on Clear Creek to fish, but it does form a population of wild browns, "wild" meaning a self-sustaining population. They haven't been -- the state hasn't put fish in there, especially brown trout.

I know this project must be done. I use I-70 during the fishing season at least once or twice a week.

A But the problems I see are kind of two-fold, the first being the impact of the construction itself. I don't see the fish surviving right where they're going to build this road, the bypass.

B The second one is the sediment that will happen during the project and what that will do to the fisheries downstream. Directly below this area there's two very good fisheries, the Hidden Valley area, and that bike path that goes on down to Kermitts. Both of these areas have a lot of trout and are great fisheries. I'm worried that the sediment from this project will cover the spawning areas, cover the bugs the trout feed on, and eventually, hopefully not, kill the fish population in this area.

C I would hope that the direct impact can be kept to a minimum and the sediment can be dealt with before it gets downstream.

C This being said, when the project is completed, I would hope that funds are available not just to restore the project area to what it was before the construction, but to do some actual remediation and make this area a very good fishery. Thank you.

**Responses****Response to IND-26**

- A. [Section 3.11, Aquatic Resources](#), in the EA, discusses the impacts of temporary erosion of disturbed soils, sedimentation downstream, and incidentally spilled fuels on fish and fish habitat in Clear Creek. Activities associated with roadway and retaining wall construction will disturb soils adjacent to Clear Creek and increase the potential for erosion of soils and sedimentation within Clear Creek. Sedimentation of substrate materials within Clear Creek will temporarily impact brown trout spawning habitat and forage species habitat. Retaining wall construction during brown trout spawning season (October through June) could result in sedimentation from erosion of disturbed soils covering eggs incubating in the stream substrate. Runoff from construction could impact water quality. [Table 3-1](#) in this FONSI identifies measures to mitigate impacts to aquatic resources during construction, such as the implementation of BMPs for erosion and sediment control.
- B. CDOT recognizes the importance of Clear Creek as a fishery that both provides angling recreation and supports a naturally reproducing, sustainable brown trout population. CDOT also recognizes the potential for the sedimentation of Clear Creek substrate during construction activities adjacent to this important resource. As described in response to comment [ORG-01-B](#), Colorado Parks and Wildlife will conduct a survey of spawning areas throughout the reach of Clear Creek affected by construction activities to identify spawning locations and recommend measures to minimize impacts to these areas. To avoid or minimize impacts to fish spawning areas and benthic invertebrate habitat downstream from the construction activities, CDOT will implement appropriate BMPs for erosion and sediment control according to the CDOT Erosion Control and Storm Water Quality Guide. CDOT will also develop a stormwater management plan (which includes water quality monitoring by the construction contractor to ensure effectiveness of temporary construction BMPs) and use adaptive mitigation identified in the Clear Creek Sediment Control Action Plan, as noted in [Table 3-1](#) in this FONSI. By implementing these erosion and sediment control practices, impacts to the fishery will be avoided or minimized.
- C. As noted in response to comments [ORG-01-I](#) and [ORG-01-D](#), CDOT is planning stream enhancements in coordination with the restoration of the Clear Creek County Greenway game check area (along the detour route). The [Intergovernmental Agreement](#) (IGA) between CDOT and Clear Creek County specifies stream channel improvements and provides a concept of the planned improvements; as details of the restoration and enhancements are refined, details of the IGA may also be refined. This stream enhancement will permanently improve aquatic habitat in this area of Clear Creek.

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Public Hearing <b>Document Number:</b> IND-27	<b>Name:</b> Ralph Rutter <b>City, Zip Code:</b> Dumont	<b>Response to IND-27</b> <p>A. The expanded tunnel bore will increase the capacity of I-70 through the tunnel so that the bottleneck you mention no longer occurs. As described in <a href="#">Section 1.4.2</a> of the EA, several factors lead to the slowing of travel speeds through this segment of I-70. Motorists slow to safely navigate tight curves, and motorists slow on the approach to the tunnels due to the real and perceived narrowing of the tunnels. The tunnels have lower capacity than surrounding sections of the highway, as illustrated in <a href="#">Figure 1-8</a> in the EA, creating congestion during peak periods. The Proposed Action implements a consistent roadway width and design speed through the tunnel and the project area, and will increase capacity by 72 percent through the tunnel, from 3,200 vehicles per hour (vph) up to 5,500 vph.</p> <p>We are unsure if your mention of pale flashing lights refers to the flashing yellow lights on the roadside sign approaching the west entrance of the tunnel, or the lights inside the tunnel itself. If you are referring to the former, the flashing yellow sign warns motorists of upcoming curves. This warning is especially important for trucks, which have increased rollover risks when traveling too fast through curves. Although the Proposed Action addresses the most problematic low-speed curve west of Hidden Valley, the area east of the tunnels will remain curvy, and the sign will continue to be needed.</p> <p>If you are referring to lights in the tunnel, under the Proposed Action, CDOT is considering options for tunnel lining that are brighter and more reflective, as well as creating an overhang entrance to the tunnel, which will allow more options to improve lighting for the tunnel entrance, which has been identified as a factor causing slowing through the tunnels as you also observe.</p>
<p>REPORTER'S TRANSCRIPT OF PUBLIC HEARING HEARING DATE: Wednesday, July 25, 2012</p> <p>Thank you. My name is Ralph Rutter. I live in the Dumont area. I use the tunnel quite a bit. I have an observation and a question.</p> <p>A [My observation is, over the years coming into that tunnel during congestion, and really other times too, is the lights – the pale lights flash. People see the bore and they reduce their speed. Now, that's substantiated by the fourth slide, where it showed 4,000 vehicles coming in two lanes, 3,200 through the tunnel, 4,000 going out. So that's my observation. And will the new bore eliminate that? I don't know.]</p>		

**Table 5.2.** Public and Agency Comments Received and Responses to Comments**Comments****Responses**

<b>Source:</b> Public Hearing <b>Document Number:</b> IND-27	<b>Name:</b> Ralph Rutter (continued) <b>City, Zip Code:</b> Dumont	<b>Response to IND-27 (continued)</b>  B. As noted in <a href="#">Section 3.3.6</a> of the EA and in response to comment <a href="#">IND-15-B</a> , CDOT will collect tolls via license plates or transponders to accommodate offsite payment so that drivers do not have to stop to enter or exit the managed lane.  C. As pointed out in response to comment <a href="#">IND-04-A</a> , removing the tunnels entirely was an option studied and ultimately eliminated from further consideration as part of the <a href="#">I-70 PEIS</a> and the subsequent <a href="#">Twin Tunnels visioning workshop</a> . As noted in the I-70 PEIS, the Twin Tunnels is an important land bridge for wildlife crossing I-70. Removing the tunnels would likely have adverse environmental impacts, generate large quantities of waste materials, and create an area prone to rockslides and other geologic hazards that would be difficult to manage.  The Twin Tunnels visioning workshop conducted in 2011 concluded removing the tunnels would create excessive environmental impacts, have an unreasonably high cost, and would require closure of the entire interstate during construction. For these reasons, the visioning workshop did not carry this alternative forward, consistent with the conclusions of the I-70 PEIS. As a result of these previous analyses, demolishing the tunnels entirely was not an alternative evaluated as part of the Twin Tunnels EA.
REPORTER'S TRANSCRIPT OF PUBLIC HEARING HEARING DATE: Wednesday, July 25, 2012		