March 9, 2012

The Honorable Ray LaHood  
Secretary of Transportation  
US Department of Transportation  
1200 New Jersey Avenue  
Washington, DC 20590

Dear Secretary LaHood:

Please find enclosed the 2012 Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program application for the US 67 Project in Johnson County, Texas. This project is submitted by the North Central Texas Council of Governments (NCTCOG), the Metropolitan Planning Organization (MPO) for the Dallas-Fort Worth region, to the United States Department of Transportation (USDOT).

The project consists of widening the northeastern segment of the US 67 Cleburne Bypass from two lanes to a four-lane divided facility between State Highway 174 and BU 67/Spur 102, a distance of approximately 4 miles, completing a continuous four-lane facility around the city of Cleburne. The project will increase accessibility to public and private property in the northwest and northeast quadrants of the city as well as reduce congestion in the downtown area, resulting in improved mobility, safety, commerce, and quality of life for local residents and businesses.

The current increase in truck traffic from natural gas well drilling and nearby quarries has exacerbated congestion on the roadway. Because this facility routes through traffic away from the Cleburne downtown area, it will allow for better flow of traffic for goods movement and improve public accessibility to the central city. Widening the roadway will provide additional access for freight transportation and improve safety while creating an opportunity to facilitate additional development in downtown Cleburne.
Again, this project will improve mobility, safety, economic development and quality of life, and I fully support NCTCOG’s application for a 2012 TIGER Grant. Thank you for your full and fair consideration of this application. If you have any questions regarding this project, please contact Michael Morris, P.E., Director of Transportation at the North Central Texas Council of Governments at (817) 695-9241 or mmorris@nctcog.org.

Sincerely,

Jungus Jordan
Chair, Regional Transportation Council
Councilmember, City of Fort Worth

RH:hc
Enclosure

cc: Michael Morris
TIGER DISCRETIONARY GRANT PROGRAM
Project Application

Name of Project: US 67 from SH 174 to BU 67/Spur 102

Agency Submitting Project: North Central Texas Council of Governments

Other Project Parties: Texas Department of Transportation (Implementing Agency)

Primary Contact:
Name: Michael Morris
Phone Number: 817-695-9241
Email Address: mmorris@nctcog.org
Street Address: 616 Six Flags Drive
Arlington, TX 76005

Type of Project: Highway

Project Location:
City: Cleburne
County: Johnson County
State: Texas
Congressional Districts: District 17 (Rep. Bill Flores)

Type of Jurisdiction: Rural Area

TIGER Funds Requested: $20,000,000

Total Project Cost: $24,000,000

DUNS Number: 10-246-2256

TIGER ID: Nctcog201210893
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I. Project Description

The existing US 67 facility, as identified in Exhibit 1, is located on the north side of the City of Cleburne and is currently a two-lane roadway with grade separations at major intersecting roadways. The proposed project is ultimately a four-lane facility, for which all right-of-way has been acquired. The proposed project extends from just west of SH 174 to BU 67/State Spur 102/College Drive, a distance of 4.1 miles. The full US 67 Cleburne Bypass is 10.3 miles long. Exhibits 1 and 2 show the three active construction projects that upgrade approximately 6.2 miles of this bypass from two lanes to four. The proposed project would complete the four-lane conversion for the remainder of the bypass facility.

Targeted Transportation Challenges
Initially completed in 1998, the two-lane roadway provided improved local and regional mobility. However, since the bypass was constructed, the quality of this access has deteriorated due to traffic growth and an increasingly high percentage of trucks. The bypass acts to reduce congestion in downtown Cleburne, but travelers have found this alternate route less attractive as congestion has increased. The significant and increasing usage of trucks and heavy vehicles has led to premature deterioration of the existing infrastructure in some areas. Most crossings within the proposed project are grade separated, but the remaining at-grade intersection with County Road 801B creates operational inconsistencies and safety concerns within the facility. Upon completion of two nearby US 67 projects currently under construction, this unimproved section would be a short (4.1 miles) two-lane facility that could create an operational bottleneck between four-lane sections on each side.

Challenges Addressed
The completed four-lane divided bypass would increase capacity and improve accessibility to public facilities and private property in the northeast quadrant of the city, with implicit benefits to those in downtown Cleburne, as this facility routes through-traffic away from the central business district. Four-lane operations would decrease the operational effects of heavy vehicles by enabling passing movements throughout the facility. The new grade separations and travel lanes would distribute the distress from heavy vehicle traffic more evenly, extending the expected life of the existing infrastructure. Grade separating the County Road 801B crossing and connecting the two four-lane segments on each end will yield operational improvements, including safety benefits. To meet long-range system planning needs, the facility has been designed to allow an extension should construction of a highway for the southeast quadrant become warranted.

Urban vs. Rural Need
The project is located within the rural community of Cleburne, the county seat of Johnson County. Most of the project is within an urban cluster based on 2000 Census Bureau data. The project is entirely outside the Dallas-Fort Worth (DFW) urbanized area.
Exhibit 1: Project Location

US 67
Cleburne Bypass
City of Cleburne
Johnson County
State of Texas
TIGER Discretionary Grant Application
TxDOT Improvements

Legend
- US 67 Improvements
- Proposed TIGER Project
- ARRA Project 1 (See Figure 2)
- ARRA Project 2 (See Figure 2)
- US 67/SH 174 Access Ramps

Other Items
- Primary Highway
- Secondary Highway
- Major Arterial
- Minor Arterial
- Rail
- City Limit

Location Map

Source: NCTCOG September 2011

Exhibit 2: TxDOT/ARRA US 67 Projects Under Construction

ARRA PROJECT
Cleburne, Texas
$30.3 M Mobility Improvements for Future SH 121 Interchange

Mobility Improvements for future SH 121

Project 1 - $118.8 M
- Expand US 67 to a five-lane divided highway in preparation of the future SH 121/Chisholm Trail direct connection.
- Eliminate the at-grade at-hand/connections at US 67 and SH 374 and replace them with direct-on/off ramps.
- Let November 2009

Project 2 - $17.5 M
- Extend expansion of US 67 to a four-lane divided highway.
- Expand construction of area frontage roads and access ramps.
- Let March 2010

Source: TxDOT July 2010
II. Project Parties

a. North Central Texas Council of Governments (Submitting Agency)

The North Central Texas Council of Governments (NCTCOG) is a voluntary association of cities, counties, school districts, and special districts which was established in January 1966 to assist local governments in planning for common needs, cooperating for mutual benefit, and coordinating for sound regional development.

It serves a 16-county metropolitan region comprised around the two urban centers of Dallas and Fort Worth. Currently, the Council has 233 members, including 16 counties, 165 cities, 23 independent school districts, and 29 special districts. The area of the region is approximately 12,800 square miles, which is larger than nine states, and the population of the region is over 6.4 million, greater than that of 35 states.

NCTCOG's structure is relatively simple; each member government appoints a voting representative from the governing body. These voting representatives make up the General Assembly which annually elects a 15-member Executive Board. The Executive Board is supported by policy development, technical advisory, and study committees, as well as a professional staff of 235.

Since 1974, NCTCOG has served as the Metropolitan Transportation Organization (MPO) for the Dallas-Fort Worth area. NCTCOG's Department of Transportation is responsible for the regional planning process for all modes of transportation. The department provides technical support and staff assistance to the Regional Transportation Council (RTC) and its technical committees, which compose the MPO policy-making structure. In addition, the department provides technical assistance to the local governments of North Central Texas in planning, coordinating, and implementing transportation decisions.

b. Texas Department of Transportation (Implementing Agency)

The Texas Legislature originally established the Texas Department of Transportation (TxDOT) in 1917 as the Texas Highway Department. TxDOT's workforce of more than 12,000 employees is made up of engineers, administrators, designers, architects, sign makers, accountants, purchasers, maintenance workers, travel counselors and many other professions. Headquartered in Austin, TxDOT is made up of 21 divisions and 6 offices. Four regional support centers provide operational and project delivery support for the agency's 25 geographical districts.

The project is located in the TxDOT–Fort Worth District which plans, designs, builds, operates and maintains the state transportation system in the following counties: Erath, Hood, Jack, Johnson, Palo Pinto, Parker, Somervell, Tarrant and Wise.
III. Grant Funds and Sources/Uses of Project Funds

Exhibit 3 details the costs of just the segment of the project that would be funded through this TIGER Discretionary Grant. The proposed project is part of a larger system of improvements to the US 67 Cleburne bypass. Exhibit 4 shows the costs for the full US 67 Cleburne bypass, including the proposed project. All costs are in 2011 dollars.

### Exhibit 3: TIGER Project Costs

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Amount</th>
<th>Funding Source</th>
<th>Percent</th>
<th>Funding Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary Engineering</td>
<td>$0.9 million</td>
<td>TxDOT</td>
<td>100%</td>
<td>$939,000</td>
</tr>
<tr>
<td>Construction</td>
<td>$24 million</td>
<td>Local Funds</td>
<td>16.7%</td>
<td>$4,000,000</td>
</tr>
<tr>
<td>Construction Engineering</td>
<td>$0.8 million</td>
<td>TIGER Request</td>
<td>83.3%</td>
<td>$20,000,000</td>
</tr>
<tr>
<td>PROJECT TOTAL</td>
<td>$25.8 million</td>
<td>TxDOT</td>
<td>6.8%</td>
<td>$1,763,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Local Funds</td>
<td>15.5%</td>
<td>$4,000,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TIGER Request</td>
<td>77.6%</td>
<td>$20,000,000</td>
</tr>
</tbody>
</table>

Note: 1Funding amounts are rounded to the nearest $1,000

### Exhibit 4: Total Facility Cost Summary

**Project 1** – Segment from 0.6 miles east of FM 4 to SH 174 (TIP #53106) and **Project 1** – Intersection from SH 174 to 0.9 miles east of SH 174 (TIP #53128)

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Amount</th>
<th>Funding Source</th>
<th>Percent</th>
<th>Funding Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Engineering</td>
<td>$0.8 million</td>
<td>TxDOT</td>
<td>100%</td>
<td>$836,000</td>
</tr>
<tr>
<td>Construction</td>
<td>$14.8 million</td>
<td>Local Funds</td>
<td>13.8%</td>
<td>$2,044,000</td>
</tr>
<tr>
<td>Construction Engineering</td>
<td>$0.5 million</td>
<td>TIGER Funded</td>
<td>86.2%</td>
<td>$12,795,000</td>
</tr>
</tbody>
</table>

**Project 2** – Segment from BU 67M to 0.6 miles east of FM 4 (TIP #53116)

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Amount</th>
<th>Funding Source</th>
<th>Percent</th>
<th>Funding Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Engineering</td>
<td>$0.9 million</td>
<td>TxDOT</td>
<td>100%</td>
<td>$858,000</td>
</tr>
<tr>
<td>Construction</td>
<td>$18.2 million</td>
<td>Local Funds</td>
<td>20.6%</td>
<td>$3,743,000</td>
</tr>
<tr>
<td>Construction Engineering</td>
<td>$0.8 million</td>
<td>TIGER Funded</td>
<td>79.4%</td>
<td>$14,466,000</td>
</tr>
</tbody>
</table>

**TIGER Project** – Segment from SH 174 to BU 67/Spur 102

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Amount</th>
<th>Funding Source</th>
<th>Percent</th>
<th>Funding Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary Engineering</td>
<td>$0.9 million</td>
<td>TxDOT</td>
<td>100%</td>
<td>$939,000</td>
</tr>
<tr>
<td>Construction</td>
<td>$24 million</td>
<td>Local Funds</td>
<td>16.7%</td>
<td>$4,000,000</td>
</tr>
<tr>
<td>Construction Engineering</td>
<td>$0.8 million</td>
<td>TIGER Request</td>
<td>83.3%</td>
<td>$20,000,000</td>
</tr>
</tbody>
</table>

**Total Facility** – US 67 Bypass from BU 67M to BU 67/Spur 102

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Amount</th>
<th>Funding Source</th>
<th>Percent</th>
<th>Funding Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACILITY TOTAL</td>
<td>$61.8 million</td>
<td>TxDOT</td>
<td>7.7%</td>
<td>$4,771,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Local Funds</td>
<td>15.8%</td>
<td>$9,787,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TIGER Funded</td>
<td>44.1%</td>
<td>$27,261,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TIGER Request</td>
<td>32.4%</td>
<td>$20,000,000</td>
</tr>
</tbody>
</table>

Note: 1Funding amounts are rounded to the nearest $1,000
IV. Selection Criteria

To determine how the project aligns with each of the primary and secondary selection criteria, it is necessary to define the area that is to be examined to calculate the elements of the benefit-cost analysis. All costs are reported in 2011 dollars.

Study Area Description
The study areas analyzed for this project consist of a two- and five-mile radius around the project centerline. Exhibit 5 shows population and employment in those study areas and includes demographics for the affected municipalities of Cleburne and Keene, as well as for Johnson County. The two-mile radius around the project encompasses approximately 21 percent and 29 percent of the Johnson County 2010 population and employment, respectively, while the five-mile radius encompasses about 45 percent of population and 54 percent of employment. The NCTCOG 2040 Demographic Forecast projects population increases between 2012 and 2035 of 49 percent and 53 percent for the two-mile and five-mile radius areas, respectively. Employment within the two study areas is expected to grow by 50 percent and 67 percent between 2010 and 2035.

<table>
<thead>
<tr>
<th>Study Area</th>
<th>Demographic</th>
<th>Year 2000</th>
<th>2010</th>
<th>2010</th>
<th>2035</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-mile radius</td>
<td>Population</td>
<td>28,503</td>
<td>30,493</td>
<td>33,971</td>
<td>50,548</td>
</tr>
<tr>
<td></td>
<td>Households</td>
<td>9,686</td>
<td>11,317</td>
<td>11,287</td>
<td>17,519</td>
</tr>
<tr>
<td></td>
<td>Jobs</td>
<td>N/A</td>
<td>N/A</td>
<td>18,851</td>
<td>28,346</td>
</tr>
<tr>
<td>Five-mile radius</td>
<td>Population</td>
<td>59,477</td>
<td>64,434</td>
<td>73,455</td>
<td>112,122</td>
</tr>
<tr>
<td></td>
<td>Households</td>
<td>20,984</td>
<td>24,955</td>
<td>24,405</td>
<td>38,860</td>
</tr>
<tr>
<td></td>
<td>Jobs</td>
<td>N/A</td>
<td>N/A</td>
<td>35,753</td>
<td>59,579</td>
</tr>
</tbody>
</table>

Exhibit 6 displays population densities near the project and Exhibit 7 identifies the locations of major employers near the proposed project. The proposed project would improve roadway connections between local population and employment centers. The proposed project would also improve connectivity to the regional and interstate transportation system, since the US 67 Cleburne bypass is the primary east-west route between IH 35W and the City of Cleburne and major rural arterials such as SH 171 and SH 174.
Exhibit 6: Population Density In and Near Project Area

Exhibit 7: Major Employers Near Project Area
Special Generators of Economic Activity
Some employment centers, such as major airports and medical facilities generate traffic over and above the typical traffic generated by employees traveling to and from work. These special generators are generally important to the economic and social life of communities. The only special generator in the analyzed study areas is the Texas Health Harris Methodist Hospital Cleburne (Walls Regional Hospital) at the intersection of US 67 and BU 67 on the west side of Cleburne. Mobility improvements to the proposed facility would improve access to the hospital.

Economically Distressed Area
According to the FHWA HEPGIS tool, Johnson County is an Economically Distressed Area (EDA) as defined under 42 U.S.C. 3161 § 301(a). There are two criteria for determining EDAs: per capita income is 80 percent or less of the national average, or the unemployment rate is one percent or more above the national average. Based on 2009 per capita income from the Bureau of Economic Analysis and 24-Month Average Unemployment Rates between July 2009 and June 2011 from the Bureau of Labor Statistics, Johnson County qualifies as an EDA.

In addition to the criteria for classification as an EDA, both the median income levels and poverty rates in the study areas indicate that the proposed project is in an economically disadvantaged area. Exhibit 8 shows median incomes near the project area based on 2005-2009 American Community Survey data. The lowest median incomes in the study area are near both ends of the project. Exhibit 9 illustrates poverty rates near the project area based on 2005-2009 American Community Survey data. Compared to the average poverty rate in Johnson County, the study areas show higher concentrations of poverty, especially along SH 174 near the western end of the project and near downtown Cleburne.

Environmental Justice
The purpose of environmental justice analysis is to ensure that transportation projects do not disproportionately impact protected populations, including minorities and low income groups. Exhibit 10 highlights minority population locations near the proposed project. The city centers of both Cleburne and Keene have minority populations that are at least twice the county average. Together with the income data in Exhibits 8 and 9, the locations of minority populations are used to identify protected populations. Exhibit 11 displays the NCTCOG environmental justice index, a measure developed to highlight concentrations of protected populations. Based on this index, the area south and slightly west of the project near downtown Cleburne is a locale with higher protected population concentrations than average. The benefits of the proposed facility are expected to extend to both protected and non-protected populations in the study areas.
a. Long-Term Outcomes

A key component of the project benefit-cost analysis was an early identification of a wide range of potential direct and indirect benefits associated with this project, whether those benefits are subjective or objective in their nature. The following table, Exhibit 12, provides a snapshot of these project benefits and how they each relate to the five long-term outcomes as requested by the US Department of Transportation.

Exhibit 12: Identification of Project Benefits

<table>
<thead>
<tr>
<th>Long-Term Outcome Category</th>
<th>Projected Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>State of Good Repair</td>
<td>Lowers maintenance costs</td>
</tr>
<tr>
<td></td>
<td>Reduces frequency of construction and repair</td>
</tr>
<tr>
<td></td>
<td>Extends pavement life</td>
</tr>
<tr>
<td></td>
<td>Reduces pavement wear through weigh-in-motion technology</td>
</tr>
<tr>
<td>Economic Competitiveness</td>
<td>Reduces roadway and freight operating costs</td>
</tr>
<tr>
<td></td>
<td>Promotes travel time savings</td>
</tr>
<tr>
<td></td>
<td>Reduces freight shipping costs</td>
</tr>
<tr>
<td></td>
<td>Creates economic development opportunities</td>
</tr>
<tr>
<td></td>
<td>Enhances access to Southwest Parkway and IH 35</td>
</tr>
<tr>
<td></td>
<td>Fuel savings for roadway users, including freight</td>
</tr>
<tr>
<td></td>
<td>Creates construction jobs due to project (short term)</td>
</tr>
<tr>
<td></td>
<td>Supports long-term job creation</td>
</tr>
<tr>
<td>Livability</td>
<td>Promotes alternate modes of travel</td>
</tr>
<tr>
<td></td>
<td>Impacts land use changes</td>
</tr>
<tr>
<td></td>
<td>Increases local accessibility and creates alternate routes</td>
</tr>
<tr>
<td></td>
<td>Relieves downtown Cleburne thru traffic</td>
</tr>
<tr>
<td></td>
<td>Reduces congestion on the roadway system</td>
</tr>
<tr>
<td></td>
<td>Promotes system continuity by completing bypass</td>
</tr>
<tr>
<td>Environmental Sustainability</td>
<td>Increases reliability of system</td>
</tr>
<tr>
<td></td>
<td>Reduces both recurring and nonrecurring congestion</td>
</tr>
<tr>
<td></td>
<td>Reduces greenhouse gas emissions</td>
</tr>
<tr>
<td></td>
<td>Air quality benefits through reduced emissions (PM/NOx/Ozone/CO2)</td>
</tr>
<tr>
<td>Safety</td>
<td>Reduces injury costs, including fatalities</td>
</tr>
<tr>
<td></td>
<td>Increases safety of Comanche Peak Nuclear Plant evacuation route</td>
</tr>
<tr>
<td></td>
<td>Reduces property damage only crash costs and number of crashes</td>
</tr>
</tbody>
</table>

The full benefit-cost analysis for the proposed project is included with the application as an appendix (TIGER_US67CleburneBypass_BenefitCostAnalysis.pdf).
i. State of Good Repair

The proposed project would improve the condition of existing and proposed US 67 Cleburne bypass facility and reduce lifecycle costs for the lanes already in place. Due to the uncertainties in quantifying these measures they are not included in the Benefit-Cost Analysis appendix.

Lower Maintenance Costs

The existing US 67 Cleburne bypass is a two-lane facility. Capacity reduction could create a traffic bottleneck if one or both lanes were closed during maintenance activities. The proposed improvement would expand the facility to four lanes that could provide continuous connectivity in the event of a temporary closure of two travel lanes.

Extends Pavement Life

The existing facility is comprised of continuously reinforced concrete pavement. TxDOT identified sections of the existing US 67 Cleburne bypass that were deteriorating more rapidly than anticipated due to high truck traffic. The overpasses serve bi-directional traffic, so all heavy vehicles on the facility are served by the same infrastructure. By distributing these heavy vehicles over parallel infrastructure, the effective life of the pavement and bridge structures would be extended.

Reduces Frequency of Construction and Repair

Doubling the capacity of the US 67 Cleburne bypass reduces the usage intensity of each lane of travel. Pavement deteriorates more rapidly under heavy use, so distributing traffic between the existing and additional travel lanes would reduce the frequency of construction and repair on the facility.

Weigh-In-Motion Technology

The addition of weigh-in-motion technology to the proposed project will contribute to the state of good repair of the facility. This technology would facilitate enforcement of weight limits by law enforcement officials, reducing the number of overweight vehicles using the facility. This benefit is difficult to quantify, but it would likely increase the usable life of the existing and proposed facility.

ii. Economic Competitiveness

There are several ways the proposed project contributes to the economic competitiveness of the United States over the medium- to long-term. Two economic competitiveness measures were quantified and are included in the Benefit-Cost Analysis appendix. The travel time savings would yield an annual benefit of $1,156,161 and the fuel savings benefit would be $120,805.
Reduces Roadway and Freight Operating Costs
NCTCOG’s travel demand forecasting model indicates mobility benefits from this project in several of the reported performance measures. The benefits in these measures are adequately captured by the travel time savings and fuel savings measures.

Travel Time Savings
Based on travel modeling, the proposed project contributes to a positive reduction in vehicle hours of congestion delay which directly relates to the efficiency and reliability of the roadway system. Reductions in congestion delay directly benefit transportation system users by allowing them to use that time for other purposes. This benefit has been quantified and is discussed in more detail in the Benefit-Cost Appendix.

Reduces Freight Shipping Costs
The proposed project would contribute to a reduction of freight shipping costs because of increased reliability and transportation network efficiency due to reduced congestion. These benefits are assumed to be small and are difficult to quantify compared to other economic competitiveness benefit measures.

Economic Development Activities
Improved mobility and connectivity contributes to the economic vitality of the project area and the region. This project would improve system connectivity and promote economic development, but its primary effect is expected to be small relative to other calculated benefits.

Enhanced Access to Interstate Highway (IH) 35W and Chisholm Trail Parkway
Improved access to regional economic centers through regional and interstate transportation facilities would be facilitated by the proposed project. This benefit is difficult to quantify, but the attractiveness and economic competitiveness of commercial and industrial activities within the project area would be enhanced.

Fuel Savings for Roadway Users – Including Freight
As discussed in more detail in the Benefit-Cost Appendix, the proposed project would reduce projected congestion delay compared to the no build alternative. This would benefit transportation system users by reducing fuel wasted during congestion-related delays. This benefit has been quantified and is discussed in more detail in the Benefit-Cost Appendix.

iii. Livability
The proposed project fosters livable communities through investments that increase transportation choices and access to transportation services for people in communities across the United States. Due to the uncertainties in quantifying these measures they are not included in the Benefit-Cost Analysis appendix
Promotes Alternate Modes of Travel
Through CleTran, the City of Cleburne and Johnson County provide demand response transit service within the city limits of Cleburne and throughout Johnson County. The majority of CleTran riders are elderly and low income persons. According to CleTran representatives the US 67 Cleburne bypass is one of CleTran’s primary routes, so the proposed project would benefit transit users in the study area.

Impacts Land Use Changes
The proposed project would have only minimal impacts to land development patterns in the study area. The land along the facility is within the city limits or extra-territorial jurisdiction of Cleburne and Keene, so the future land use plans of those municipalities would be the dominant influence on future development patterns.

Increases Local Accessibility and Creates Alternate Routes
The projected mobility improvements that would result from the implementation of the proposed project would enhance local accessibility. While this benefit is already quantified through the time savings measure, the increased accessibility to local cultural and community facilities would enhance community cohesion.

Relieves Downtown Cleburne Through-Traffic
The proposed project expands capacity on the existing bypass around downtown Cleburne. By improving the level of service on the US 67 Cleburne bypass, the route becomes a more attractive facility for longer distance through trips not destined for the downtown area. The local arterial streets, including BU 67, in downtown Cleburne do not have sufficient right of way for improvements beyond their current capacity. The construction and expansion of the US 67 Cleburne bypass to handle through traffic has been and continues to be a high priority for the City of Cleburne.

Reduces Congestion on the Roadway System
There are livability impacts of roadway congestion in addition to the economic impacts previously described. While the livability impact is small and difficult to quantify, increased traffic congestion would alter, for some residents, the character and quality of life in Cleburne and Keene. The proposed project would alleviate some of the projected traffic congestion.

Promotes System Continuity by Completing Bypass
US 67 to the east of the proposed facility is a four-lane divided rural arterial. Construction projects scheduled to be completed by summer 2012 will upgrade the US 67 Cleburne bypass to a four-lane controlled access facility to the west of the proposed facility. The construction of the proposed project would complete the expansion of US 67 to a continuous divided roadway of four or more lanes from west of Cleburne to the merge with IH 35E in the City of Dallas, a distance of approximately 55 miles. Providing a continuous four-lane facility for US 67
would meet driver expectations, fulfill community transportation goals, and also encourage continuity in accessibility and adjacent land use development patterns.

iv. Environmental Sustainability

The proposed project would improve energy efficiency, help to reduce dependence on oil, reduce greenhouse gas emissions and benefit the natural environment. Two economic competitiveness measures were quantified and are included in the Benefit-Cost Analysis appendix. The air quality benefits would yield an annual benefit of $7,628. In addition, the clean construction air quality benefits would yield an annual benefit of $3,483 during the two years the project would be under construction. The dollar value of annual greenhouse gas reduction benefit from the project varies due to a different social cost of carbon between analysis years. The completed project would decrease annual greenhouse gas emissions by 2,800.8 metric tons.

Increases Reliability of the System
The proposed project would improve the reliability of the US 67 Cleburne bypass. The existing facility is two-lanes, forcing passing movements to wait for gaps in traffic. The operational characteristics of heavy vehicles and the high truck volumes on the facility can lead to unreliable service for passenger vehicles using the roadway. The four-lane operations of the proposed project would improve traffic operations and benefit users by enhancing system reliability. It is difficult to quantify the cumulative effect of passing movements and congestion caused by heavy vehicle traffic.

Reduces Both Recurring and Nonrecurring Congestion
As noted in other measures, the proposed project would reduce projected traffic congestion compared to a no-build alternative. The travel forecasting process identifies locations with recurring congestion, but does not capture nonrecurring congestion. This nonrecurring congestion is related to crashes, maintenance operations and other temporary obstructions. The environmental sustainability benefits from reductions in nonrecurring congestion are difficult to quantify and the benefits from reductions in recurring congestion are quantified in another measure.

Reduces Greenhouse Gas Emissions
Based on traffic modeling to analyze the build and no-build alternatives, the proposed project would reduce regional greenhouse gas emissions, specifically carbon dioxide (CO₂). This benefit has been quantified and is discussed in more detail in the Benefit-Cost Appendix.

Air Quality Benefits through Reduced Emissions (PM/NOₓ/Ozone/VOCs)
Based on traffic modeling analysis between the build and no-build alternatives, the proposed project would create air quality benefits, specifically by reducing
emissions of nitrogen oxides (NO\textsubscript{X}) and volatile organic compounds (VOC). This benefit has been quantified and is discussed in more detail in the Benefit-Cost Appendix.

Clean Construction
The incorporation of the clean construction specification leads to increased sustainability benefits for the project, including reductions in air pollutants and petroleum consumption. Investment in newer construction equipment and/or diesel retrofit technologies will result in use of cleaner-burning engines in place of higher-polluting equipment. This will minimize criteria emissions, including ozone-forming NO\textsubscript{X}, from construction equipment, which is critical for further progress in working toward regional attainment of the federal ozone standard. Additional reductions are anticipated in particulate matter (PM) and diesel exhaust, which would also positively impact human health. Furthermore, newer equipment often has a better fuel economy than older engines and incorporate technologies that allow for minimized idling and other added efficiencies. These advances facilitate reductions in petroleum consumption, which support national energy policy efforts. These benefits begin immediately upon project implementation but are long-lasting through the entire useful life of the cleaner equipment and technologies which will be put into service on this project. This benefit has been quantified and is discussed in more detail in the Benefit-Cost Appendix.

Green Concrete
To be conservative, it is assumed that the requirement to use “green” cement will not result in additional air quality benefits, as it is speculated that cement from lower-emitting kilns is widely used in construction projects under normal circumstances. However, inclusion of this requirement will eliminate the possibility of cement being sourced from a kiln with higher emissions, and therefore helps ensure maximum environmental sustainability benefits may be achieved.

v. Safety
The proposed project would have a beneficial impact on the safety of the existing US 67 Cleburne bypass. Two economic competitiveness measures were quantified and are included in the Benefit-Cost Analysis appendix. The annual injury crash reduction benefit and property damage only crash reduction benefits would yield an annual benefit of $1,214,864 and $26,044, respectively.

Reduces Injury Crashes, including Fatalities
An analysis from the Federal Highway Administration summary report “Safety Effects of the Conversion of Rural Two-Lane Roadways to Four Lane Roadways” indicates that conversion to four-lane divided roadway appears to result in significant safety benefits. The conversion from a “most typical” four lane divided roadway appears to result in a crash reduction of 40 percent. The improvement
would reduce injury accidents by about 4.75, including 0.11 fatalities annually. 
This benefit has been quantified and is discussed in more detail in the Benefit-Cost Appendix.

Reduces Property Damage Only Crash Costs and Number of Crashes
The proposed project would convert the existing two-lane facility to a four-lane divided roadway resulting in significant safety benefits. As with the reduced fatality measure, the conversion from a “most typical” four lane divided roadway is expected to result in a crash reduction of 40 percent. The improvement would reduce property damage only crashes by about 7.76 annually. This benefit has been quantified and is discussed in more detail in the Benefit-Cost Appendix.

Comanche Peak Nuclear Plant Evacuation Route
US 67 Cleburne bypass is a federally designated evacuation route for the Comanche Peak Nuclear Plant. The proposed project would enhance the suitability of the facility for this function. Because the benefits would only become apparent in the event of an evacuation, they are extremely difficult to quantify.

b. Job Creation and Near-Term Economic Activity

Job creation and near-term economic activity would be promoted by the proposed project. The benefits from this project would create economic opportunities and activity within an economically disadvantaged area. There are no outstanding issues that would slow the implementation of the project should funds be awarded. Long-term job creation benefits were quantified and are included in the Benefit-Cost Analysis appendix. The long-term job creation would yield an annual benefit of $515,275.

Creates Construction Jobs Due to Project (Short-Term)
Even though it is believed this project will result in additional short-term temporary jobs and economic benefit during the construction of the project, short-term job creation was not taken into account or quantified, based on guidance provided by the US DOT.

Creates Long-Term Jobs
The implementation of the proposed project would lead to long-term job creation based on the government capital investment in infrastructure. It is estimated that 261 job-years will be created as a result of this project, as detailed in the Benefit-Cost Appendix. Those 261 job-years translate into roughly 8.7 permanent jobs through the 30-year benefit cycle of this project. This benefit has been quantified and is discussed in more detail in the Benefit-Cost Appendix.
Clean Construction

Use of the clean construction specification on this project is anticipated to prompt contractors to replace, repower, and/or retrofit construction equipment which does not meet Tier 2 emissions standards. This will likely result in job creation/retention throughout the supply chain, including equipment dealerships and manufacturers, associated with demand for new equipment and/or technologies. Based upon a formula developed by the Manufacturers of Emission Controls Association (MECA), NCTCOG expects that expenditure of up to $240,000 for equipment replacement/repower/retrofit associated with the clean construction specification will result in approximately 3.6 jobs created or retained.

c. Innovation

The proposed project would include three innovative elements to pursue the long-term outcomes outlined in the selection criteria. The project would be implemented using clean construction techniques to increase environmental sustainability. Also, the project would be constructed using green concrete to increase environmental sustainability. Finally, the project would be implemented with weight-in-motion technology to improve and extend the state of good repair for the existing and improved facility.

Clean Construction Techniques

As the MPO of an ozone nonattainment area, the NCTCOG Transportation Department works to develop air quality control strategies that reduce emissions of criteria pollutants associated with ozone formation, specifically nitrogen oxides (NO$_X$). Through recent years, NCTCOG staff has been investigating potential strategies to address emissions from construction equipment, which contributes approximately eight percent of ozone-forming NO$_X$ emissions in North Central Texas, according to preliminary modeling conducted by the Texas Commission on Environmental Quality (TCEQ). Staff has determined that contract specifications which include emissions-related requirements on public works or other construction projects may be one of the more promising strategies to reduce emissions.

The negative impacts associated with diesel pollution from construction equipment utilized in roadway projects have been recognized at the federal level through introduction of the Clean Construction Act of 2011. The NCTCOG Clean Construction Specification is similar in nature to this pending legislation. However, the local requirements target reductions in NO$_X$, which is the primary determinant of ozone formation in the DFW ozone nonattainment area, rather than particulate matter (PM). To set a regional example, take a leadership role, and increase sustainability benefits of this project, NCTCOG will incorporate a Clean Construction Specification on this project. The Clean Construction Specification will help mitigate emissions associated with construction equipment utilized during the construction phase of this project. The specification will require use of construction equipment which meets Tier 2 or better emissions standards, with certain exemptions for situations where such equipment is not practicable (e.g. equipment which is seldom
used, equipment brought on-site in an emergency situation). Operational requirements, such as idling limitations, will also be in place. Up to one percent of the total project cost may be utilized to help offset additional project expenses associated with contractors’ compliance with this requirement.

Green Concrete
In October 2006, The North Texas Clean Air Steering Committee (NTCASC), a committee of the NCTCOG Executive Board, passed a resolution requesting that local governments in the nonattainment area give special consideration to purchasing cement sourced from cement kilns which meet lowest emissions levels. This measure was passed as another strategy to work toward reducing ozone-forming emissions, specifically NO\textsubscript{X}. During construction of this project, NCTCOG will also include a requirement that all cement used in the project be sourced from a kiln which meets an emission rate of 1.7 pounds of NO\textsubscript{X} per ton of clinker or less. This requirement will ensure that cement is sourced from a kiln which is using a lower-emitting production process compared to industry counterparts.

Weigh-In-Motion Technology
Virtual Weigh-in-Motion (VWIM) can provide the functionality of a weigh station at a lower cost. A VWIM system may include wireless communications, remote cameras, electronic transponders, optical character recognition (OCR) cameras, and license plate reader (LPR) technology to support enforcement. The VWIM system weighs all trucks, and can refer only those potentially overweight or out-of-compliance vehicles to law enforcement. VWIM systems help to minimize the likelihood of illegally overloaded trucks traveling on the region’s highways, which contribute to accelerated road deterioration and increasing safety concerns.

The US 67 corridor carries eight percent trucks, which is higher than the Dallas-Fort Worth regional average of seven percent. The gas drilling activities in Johnson County contribute to the high truck percentage within this corridor. The gas drilling industry is heavily dependent on commercial vehicles to bring equipment, chemicals, sand, and water to the drilling sites, and to transport wastewater from the drilling site locations.

Depending on the type of technology deployed, the system’s lifespan is estimated at 10 years and will cost up to $500,000 to furnish and install VWIM infrastructure for a four lane facility, including the necessary auxiliary equipment, integration and communication. As part of this project, NCTCOG proposes the installation of one VWIM at a strategic location within the project limits to aid in enforcing weight limits, while also ensuring that it does not result in diversion of overweight trucks onto arterial streets.
d. Partnership

The US 67 Cleburne bypass project demonstrates a strong commitment to collaboration with a broad range of participants, including integration between transportation planning and implementation efforts and other public service efforts.

i. Jurisdictional and Stakeholder Collaboration

Local representatives from the City of Cleburne and Johnson County have a long-standing tradition of championing the Cleburne Bypass to ensure a well developed local and regional transportation network. In November 1973, a delegation from Cleburne took the initiative and requested that the Texas Transportation Commission authorize a Cleburne bypass. That process led to the construction of the existing two-lane facility. The eventual expansion of the facility to four lanes was incorporated into the environmental assessment, originally approved in 1989.

The continuing support of the City of Cleburne, City of Keene, and Johnson County for the US 67 Cleburne bypass is evidenced through the project’s inclusion in local planning documents. This plan is consistent with the regional transportation planning process as developed by NCTCOG, the Metropolitan Planning Organization (MPO) for the DFW Metropolitan Area.

Letters of support for the project have been submitted by the following public entities:

- Texas State Representative Rob Orr (District 56)
- Johnson County Judge Roger Harmon
- Texas Department of Transportation

As shown in Section III, the proposed project is part of a larger system of improvements. The total cost of the two- to four-lane conversion of the entire US 67 Cleburne bypass is approximately $61 million dollars. While funding has been obligated for most of the facility, no reasonably foreseeable financial scenarios would generate the investment needed to complete the project. The TIGER Discretionary Grant would help to complete an overall financing package for the full project.

NCTCOG published Mobility 2035 – The Metropolitan Transportation Plan for North Central Texas in March 2011. This financially constrained plan includes all transportation projects that could be funded through federal, state, local, and private sector investments. NCTCOG, representing municipal and county governments in north central Texas, has committed to financially support the construction of the US 67 Cleburne bypass with $4 million in local funds.
ii. Disciplinary Integration

The three innovative elements demonstrate the value of partnerships across agencies. The VWIM technology will allow for cooperation between law enforcement and transportation agencies to promote a state of good repair for the proposed facility. The commitments to clean construction techniques and the use of green concrete promote incorporating environmental sustainability into transportation projects.

Letters of support for the project, focusing on the commitment to Clean Construction Specifications, have been submitted by the following non-transportation entities:

- American Lung Association
- North Texas Commission
- North Texas Clean Air Steering Committee

e. Results of Benefit-Cost Analysis

The net present value of the US 67 Cleburne bypass project is shown in Exhibit 13. All benefits and costs are reported in 2011 dollars. Each of the benefits described in previous sections was summed together for both the three percent and the seven percent discount rate of benefits. Applied to a total project construction cost of $24,000,000, a significant benefit is achieved for both discounting scenarios. The overall effect of this transportation investment will result in a positive \textit{lifetime net benefit} of \$33.2\text{ million} at three percent and \$11.3\text{ million} at seven percent, after discounting the cost of the project. The calculations used to determine these totals are discussed in more detail in the Benefit-Cost Appendix. The overall net effect of this transportation investment will result in a positive \textit{return on investment} of 138 percent (\$33.2\text{ million}/\$24\text{ million}) and 47 percent (\$11.3\text{ million}/\$24\text{ million}), after discounting at three percent and seven percent, respectively. The results of this benefit-cost analysis clearly indicated that this project will provide a lifetime of benefits to the region, and will significantly improve the quality of life for its residents.

\begin{center}
\textbf{Exhibit 13: Benefit-Cost Analysis}
\end{center}

\begin{tabular}{|c|c|c|c|c|c|}
\hline
\textbf{Discount Rate} & \textbf{Net Present Value of Non-CO\textsubscript{2} Benefits} & \textbf{Net Present Value of CO\textsubscript{2} Benefits} & \textbf{Net Present Value of Total Benefits} & \textbf{Rounded Net Present Value of Total Benefits} & \textbf{Return on Investment} \\
\hline
Seven Percent & $9,583,748 & N/A & $11,302,331 & $11.3\text{ million} & 47 percent \\
Three Percent & $31,496,935 & $1,718,583 & $33,215,518 & $33.2\text{ million} & 138 percent \\
\hline
\end{tabular}
V. Project Readiness and NEPA

a. Project Schedule

Exhibit 14: Schedule by Phase

<table>
<thead>
<tr>
<th>Project Component</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
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<tr>
<td>Re-Evaluation</td>
<td>Complete (May 14, 2003)</td>
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<td>Continuous Activity</td>
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<td>Permitting Process</td>
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<td>Q2 Q3 Q4</td>
<td>Q1 Q2 Q3 Q4</td>
</tr>
</tbody>
</table>

According to TxDOT, the proposed project is projected to employ 150 full-time workers throughout the construction process. Actual project construction is scheduled to begin in June 2013, the third month of the quarter, only 50 (one-third of 150) full-time positions are projected for the second quarter of 2013. Similarly, construction is scheduled to be completed by December 2014, the third month of the quarter, only 100 (two-thirds of 150) full-time positions are projected for the fourth quarter of 2013.

b. NEPA Status

Status of NEPA Process: Record of Decision, Environmental Impact Statement
Completion Date: August 7, 1989
Final Environmental Impact Statement [PDF]

Status of NEPA Process: Re-Evaluation Approval
Completion Date: May 14, 2003
FEIS Re-Evaluation Approval [PDF]
Status of NEPA Process: Continuous Activity [included in current Metropolitan Transportation Plan (MTP)]
Approval Date: March 10, 2011
MTP: Mobility 2035: The Metropolitan Transportation Plan for North Central Texas

Description of Needed Federal Actions
For this project, permanent losses to Waters of the U.S. will be below 0.10 acre per location. A US Army Corps of Engineers Nationwide Permit #14 (Linear Transportation Projects) will be assumed, as will a Section 401 from TCEQ. Because there are no navigable waters associated with this project, neither a US Coast Guard Section 9 Permit nor a USACE Section 10 Permit will be required. As these permits and certifications are typically required for many highway projects, and as TxDOT is well-experienced in securing them, no difficulties are foreseen in obtaining them.

c. Legislative Approvals

Legislative approvals are not required for this project.

d. State and Local Planning

Local Planning
US 67 is a recognized facility on the Texas state transportation system, therefore planning improvements to the facility is the responsibility of TxDOT, not local governments. Nevertheless, this project is included in the baseline assumptions of the April 2008 City of Cleburne Master Thoroughfare Plan Update [PDF]. The City of Keene does not have a published thoroughfare plan, but their current zoning map [PDF] allocates right-of-way within their jurisdiction for the proposed US 67 improvements.

Johnson County’s active support of the US 67 Bypass is evidenced through the Johnson County Thoroughfare Plan [PDF], adopted in August 2002. This plan is consistent with the regional transportation planning process as developed by NCTCOG, the Metropolitan Planning Organization (MPO) for the DFW Metropolitan Area.

TIP/STIP Status
This project is not in the current Transportation Improvement Program (TIP). If TIGER funds are awarded to this project, NCTCOG certifies it will be amended into the TIP by July 12, 2012.

Because Johnson County is classified as a non-attainment county for the pollutant ozone, transportation conformity applies. This project is included in a conforming MTP and would be amended into the State Transportation Improvement Plan once it has been added to the TIP.
Metropolitan Transportation Plan
The proposed US 67 Cleburne bypass project is consistent with the recommendations found in Mobility 2035: The Metropolitan Transportation Plan for North Central Texas [Appendix E, page E.55]. The MTP includes this project as a four-lane freeway with grade-separated crossings.

Statewide Transportation Plan
The US 67 Bypass is in Johnson County was not explicitly identified in the Texas Statewide Long-Range Transportation Plan 2035 (SLRTP) or the 2012 Unified Transportation Program (UTP). Both of these documents indicate that projects identified by MPOs and funded through TIPs would be incorporated into statewide plans. The improvements proposed by this project support the major goals of TxDOT; namely to address future multimodal transportation needs, enhance safety, maintain the existing transportation system, promote congestion relief, enhance system connectivity, and facilitate the development of comprehensive multimodal transportation funding strategies.

e. Technical Feasibility

Technical feasibility is typically a function of a project’s engineering components/phases relating to environmental clearance, design, final environmental permitting based on final design, right-of-way acquisition, utility adjustments, relocation of residential and commercial land-owners and/or constructability issues. Parcel acquisition for the US 67 Cleburne bypass is complete, while design work and utility adjustments are substantially complete. Minimal constructability issues are anticipated for the following reasons: 1) the large majority of construction will occur within existing right-of-way, 2) grade separations were constructed 10 years ago (Phase 1 construction) to accommodate one-half of the ultimate four-lane roadway, so connectivity at these grade separations may be maintained during construction, 3) disruptions to local businesses are anticipated to be minimal to nonexistent as locally requested access roads were likewise constructed 10 years ago to facilitate and maintain local access during final construction.

f. Financial Feasibility

TxDOT is actively constructing two phases of the larger US 67 Cleburne bypass project, funded in part through a federal ARRA grant. Should this project receive funding through the TIGER discretionary grant program, additional state funds will be made available to perform final engineering and construction oversight for the project. The NCTCOG has committed funds to earlier phases of this project and has the capacity to provide additional local matching funds to this project. As the Dallas-Fort Worth MPO, NCTCOG regularly manages federal grants.
Federal Wage Rate Requirement

The North Central Texas Council of Governments (NCTCOG), as an applicant for Transportation Investment Generating Economic Recovery (TIGER) Discretionary funds under the American Recovery and Reinvestment Act (ARRA), certifies that for TIGER funds awarded to NCTCOG it will comply with the requirements of Subchapter IV of Chapter 31 or Title 40 (40 U.S.C. 3141, et. seq.) (federal wage rate requirements) as required by the 2009 American Recovery and Reinvestment Act.


Monte Mercer
Deputy Executive Director
North Central Texas Council of Governments

3/9/12
Date
VII. Material Changes to the Pre-Application Form

None