

Bridging the Gap: Multimodal Connections on I-35 over the Oklahoma River

Oklahoma Department of Transportation

Bridge Investment Program

Fiscal Year 2023 and 2024 Large Bridge Grant Application

November 27, 2023



SUPPLEMENTAL PROJECT NARRATIVE



OKLAHOMA
Transportation

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Project Description

Bridging the Gap: Multimodal Connections on I-35 over the Oklahoma River is a marquee project in Oklahoma City that will have tremendous community impacts. The Project includes replacing two mainline bridges on I-35 (National Bridge Inventory (NBI) 21356 and 21723), rehabilitating the two I-35 ramp bridges over the BNSF Railway (NBI 21335 and 21708), constructing a new I-35 ramp bridge spanning the Oklahoma River, and lengthening an existing box structure (NBI 14239) that traverses underneath the I-35. The Project also includes a separate “shared use” multimodal bridge that will be constructed west of the I-35 southbound (SB) bridge, which will connect to the recently constructed Oklahoma River Trail system on both sides of the river. Due to Bridge Investment Program (BIP) eligibility requirements, the multimodal bridge is not included in this grant application and will be funded using other sources. Based on the 2022 National Bridge Inventory (NBI), the I-35 NB and SB condition rating of the deck, superstructure, and substructure is rated as a 5, is in Fair condition, and is at risk of falling into Poor condition within the next three years.

In August 2023, ODOT submitted a 2023/2024 Multimodal Project Discretionary Grant (MPDG) application requesting discretionary funds to construct the new multimodal bridge over the Oklahoma River, which is a component of this Project.

As the lead applicant, Oklahoma Department of Transportation (ODOT) is requesting \$81 million in Fiscal Year (FY) 2023 and 2024 Bridge Investment Program (BIP) Large Bridge funds to replace the I-35 NB and SB bridges and I-35 ramp bridge and to rehabilitate the I-35 bridge over the Stillwater railroad (collectively the Project). The new I-35 bridges would provide six 12-foot lanes in each direction, and a minimum of 12-foot inside and outside shoulders. Currently, the I-35 bridges have five lanes in each direction, but the shoulder widths are inadequate, causing both bridges to be considered functionally obsolete. The Project cost totals \$163,917,000. In addition to the \$81 million requested in BIP Large Bridge funds, ODOT will use \$50,133,000 in other Federal funds. To cover the 20 percent match, ODOT will contribute \$32,783,400 of state funds ([Funding Commitment Letter](#)). More detailed budget information is included in the separate [Project Budget Narrative](#).

Consistent with USDOT’s BIP outcome goals, replacing and rehabilitating the I-35 bridges will improve safety, reduce travel times, and improve reliability for people and freight moving on this critical local, regional, and national Interstate.

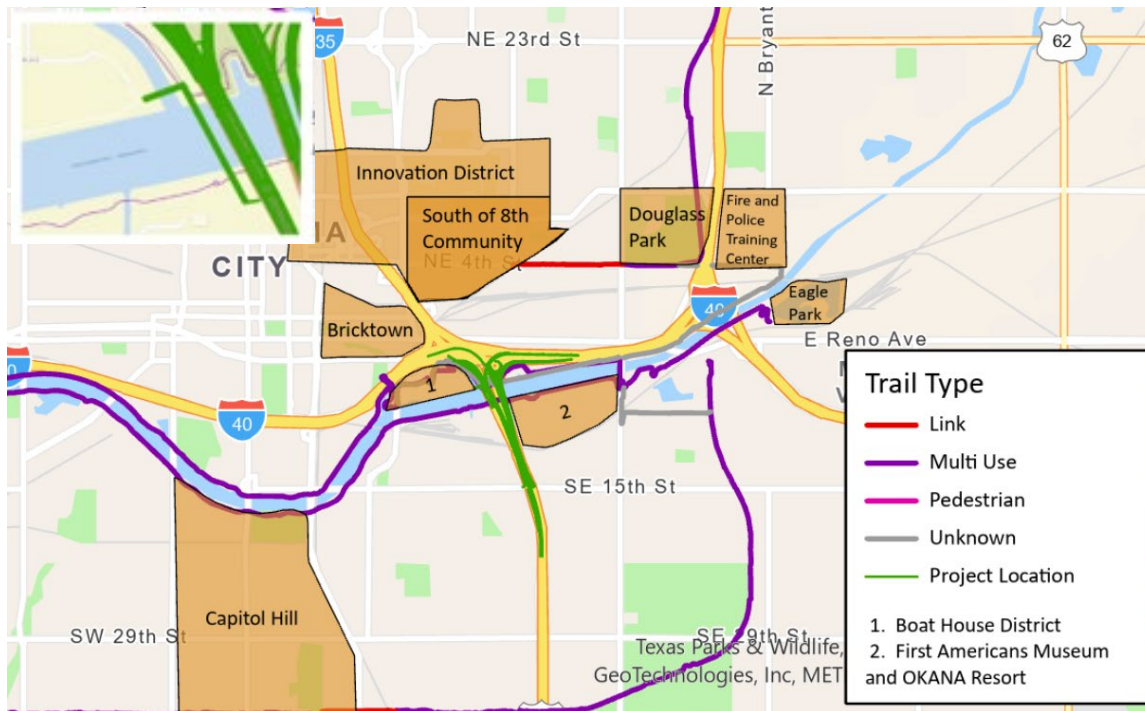
I-35 begins in Laredo, Texas, and extends north through Texas, Oklahoma, Kansas, Missouri, and Iowa before ending in Duluth, Minnesota. I-35 is a critical national corridor, as it is on the National Highway System (NHS), the Strategic Highway Network (STRAHNET), and the National Highway Freight Network (NHFN). ODOT is currently conducting an I-35 Corridor Study from the Texas state line to Oklahoma City. The I-35 bridges over the Oklahoma River in Oklahoma City comprise a critical section of this corridor and replacing and rehabilitating the I-35 bridges will make the I-35 corridor more resilient to passenger and truck traffic and earthquakes, as well as other climate related natural disasters such as flooding and tornadoes.

Replacing and rehabilitating the I-35 bridges is a priority project for ODOT, and it is in the [Eight-year Construction Work Plan](#) (CWP), scheduled for construction in 2028.

Project Location

As shown in **Figure 1**, the Project is located 1.5 miles east and 0.5 miles south of downtown Oklahoma City and is in the Census-designated Urbanized Area of Oklahoma City, Oklahoma. Oklahoma City, located in central Oklahoma, is the state capital and the state’s largest city. There are numerous employers, restaurants, parks, and entertainment districts in the Project area, as shown in the map below. Additional information about the Project area is provided in the **Economic Competitiveness and Opportunity** section in the Merit Criteria narrative.

Figure 1: Project Location



SOURCE: OKC TRAIL MAP AND GOOGLE MAPS

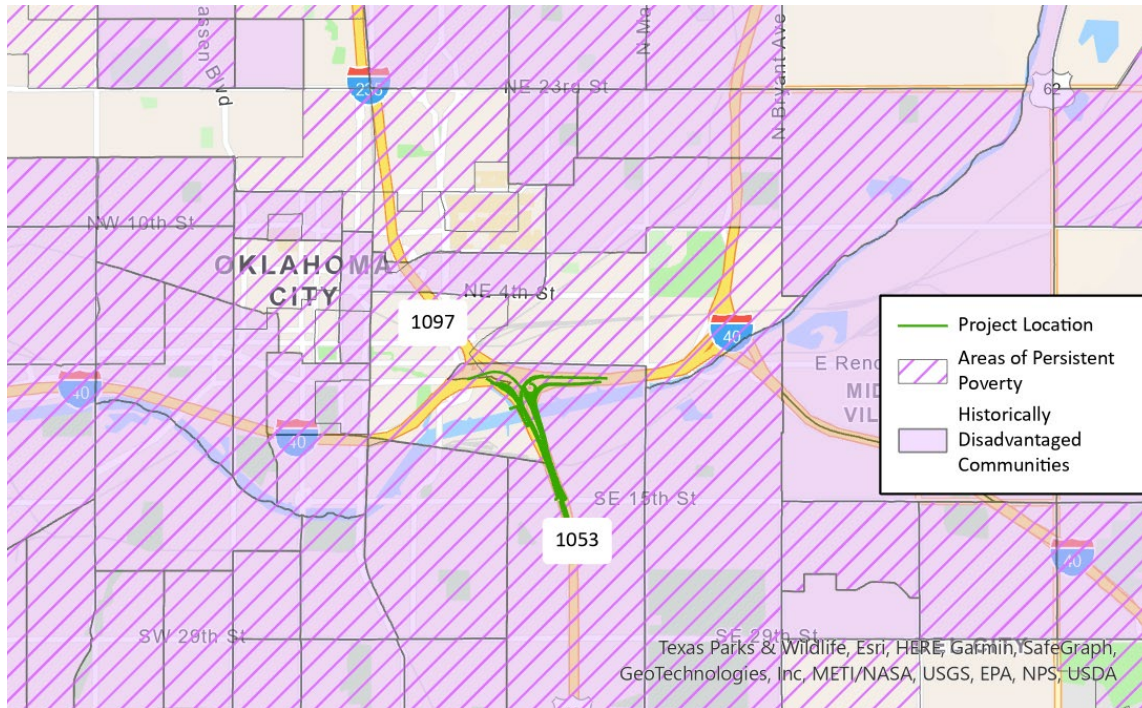
Historically Disadvantaged Communities and Areas of Persistent Poverty

Based on USDOT’s Transportation Disadvantaged Census Tract mapping tool and as shown in **Figure 2**, the Project area is in Census tract 1053 which is a Historically Disadvantaged Community and an Area of Persistent Poverty. Contiguous to this Census tract are 11 other Census tracts (1072.07, 1073, 1073.03, 1073.05, 1073.06, 1074, 1078.01, 1054, 1048, 1049, and 1050) that are also Historically Disadvantaged Communities and Areas of Persistent Poverty. The multimodal bridge is in Census Tract 1097, which is in an Area of Persistent Poverty.

Federally Designated Opportunity Zones

Based on data provided by the Department of Housing and Urban Development (HUD) and the White House Opportunity and Revitalization Council, the Project location is in Opportunity Zone 40109105300.

Figure 2: Historically Disadvantaged Communities and Areas of Persistent Poverty



SOURCE: GRANT PROJECT VERIFICATION TOOL1 AND CLIMATE & ECONOMIC JUSTICE SCREENING TOOL2

Transportation Challenges

As documented in the 2022 National Bridge Inventory (NBI) file, the 2020 Average Daily Traffic (ADT) on both bridges is 136,350 and is projected to grow by 60 percent to 218,160 by 2040. Today, there are more than 16,000 trucks per day that cross the I-35 NB and SB bridges, and this will increase to over 26,000 trucks per day in 2040. As shown in **Table 1**, the Level of Service (LOS) on the I-35 bridges in 2020 was LOS E and by 2035 it will be LOS F. In 2022, the Level of Travel Time Reliability (LOTR) on the I-35 NB and SB bridge segments was 1.28 and 1.74, respectively. The Truck Travel Time Reliability (TTTR) on the I-35 NB and SB bridges was 2.36 and 4.33, which is rated as poor. ODOT’s TTTR Interstate target is 1.33 and the current statewide average TTTR is 1.27. While the I-35 SB direction has similar traffic volumes, the reliability performance is worse than that of I-35 NB. This is due to the geometric configurations of these segments. First, these segments of I-35 south of the Oklahoma River are characterized by substandard interchange spacing. The distance between the merge points of the I-40/I-35 system interchange and the SE 15th Street interchange is only half a mile. Additionally, in the southbound direction two lanes from westbound I-40 merge with the three mainline lanes of I-35 SB. Immediately after this merge condition, the left lane drops, narrowing the capacity from five total lanes to four.

The limited bridge travel lane capacity, reduced shoulders, and merging of travel lanes directly south lead to traffic stopping and weaving. This further exacerbates queuing along I-35. In

¹ <https://maps.dot.gov/BTS/GrantProjectLocationVerification/> Persistent Poverty Census Tracts

² <https://screeningtool.geoplatform.gov/en/#3/33.47/-97.5>

2018, ODOT restriped the bridges to add a travel lane, and this helped reduce the backup on the I-40 to I-35 ramps. However, it narrowed the shoulder width on the bridges, making the I-35 NB and SB bridges functionally obsolete.

Table 1: Traffic Volumes and Congestions Measures

Segment	2020 ADT	2040 ADT	Percent Change	2020 LOS	2035 LOS	2040 LOS	2022 LOTTR	2022 TTTR
I-35 NB	67,950	108,720	60%	E	F	F	1.28	2.36
I-35 SB	68,400	109,440	60%				1.74	4.33

SOURCE: ODOT AND 2022 NATIONAL BRIDGE INVENTORY FILES

Project History and Incurred Costs

ODOT has incurred \$7.3 million to date maintaining, improving, and studying the I-35 bridges, bringing design status to 30 percent. The following provides the ODOT work history.

- **August 2016:** ODOT commissioned an Interchange Capacity Study.
- **September 2017:** Interim I-35 ramp improvement plans developed.
- **October 2017:** Preliminary river bridge concepts introduced to stakeholders.
- **December 2017:** Stakeholder meeting to review bridge concept options.
- **Spring 2018** Interim I-35 Ramp improvement project striped an additional lane on both the NB and SB bridges using the shoulders to provide additional capacity.
- **August 2018:** Began traffic operational analysis for bridge concepts.
- **January 2019:** The Oklahoma City Boulevard Exit Ramp off the I-35 NB bridge traffic opens, connecting I-35 to the newly constructed OKC boulevard.
- **Spring 2020:** ODOT initiated a Long Span Bridge Study to evaluate bridge concepts to span the Oklahoma River.
- **October 2021:** Long Span Bridge Study completed.
- **February 2022:** Stakeholder Meeting #1.
- **November 2022:** Stakeholder Meeting #2.
- **May 2023:** Stakeholder Meeting with Oklahoma City Leadership and the Chickasaw Nation to discuss the multimodal bridge.
- **June 2023:** Meeting with Oklahoma City Engineering Department to discuss the multimodal bridge.

Project Parties

The Project is led by ODOT. As a state transportation agency, ODOT plans, constructs, and maintains the highway system in Oklahoma and manages a large portfolio of Federal funds that are programmed within its [Eight-Year CWP](#). While ODOT will lead the Project, there is significant support from local, regional, and Tribal officials as evidenced from the [letters of support](#) from the Oklahoma Congressional Delegation, the Chickasaw Nation and OKANA, City of Oklahoma City, State Chamber of Oklahoma, Greater Oklahoma City Chamber, Association of Central Oklahoma Governments, EMBARK, Oklahoma Trucking Association, First American Museum, Oklahoma City Riverfront Development Authority, and Riversport.

National Bridge Inventory

The National Bridge Inventory (NBI) data for the five existing bridges are provided in the separate Large Bridge Template.

Project Budget

The Project cost totals \$163,917,000. In addition to the \$81 million requested in BIP Large Bridge funds, ODOT will use \$50,133,000 in other Federal funds. To cover the 20 percent match, ODOT will contribute \$32,783,400 from the Oklahoma State Rebuilding Oklahoma Access and Driver Safety (ROADS) fund ([Funding Commitment Letter](#)). A more detailed budget narrative and tables are included in the separate [Project Budget Narrative](#).

Outcome Criteria

State of Good Repair

Current Bridge Conditions

Prior bridge maintenance improvements have improved the bridges from previously being rated as Structurally Deficient (SD), but over time, continued wear has put the bridges at risk of becoming SD again. The bridges are inspected every two years, and the most recent inspection was in June 2022. In the 2022 National Bridge Inventory (NBI) bridge inspection report, the deck, superstructure, and substructure had a condition rating of 5 (Fair) on the I-35 NB and SB bridges over the Oklahoma River and the NB and SB ramp bridges over the BNSF Railway. ODOT understands that if these four bridges are not replaced and rehabilitated it may threaten future transportation network efficiency, mobility of goods and people, and regional and local economic growth. Thus, this Project is included in the [Eight-year CWP](#) and scheduled for construction in 2028.

Recent Projects

In 2019, an interim ramp project was completed on the I-40 to I-35 ramps to add a lane and shoulder. The project added a lane to both the NB and SB I-35 bridges over the Oklahoma River by reconfiguring the striping and reducing the shoulder widths. The existing shoulder width was reduced from 10 feet to 4 feet to accommodate the additional 12-foot driving lane. This capacity improvement, while helping reduce traffic queuing and improving safety concerns, caused the existing two I-35 bridges to become functionally obsolete and thus the two bridges do not meet current design standards. The current bridges' lane configuration reduces traffic backups on I-40 that were leading to a high density of rear-end collisions in the ramp queues. The ramp project did not relieve capacity and collision issues south of the I-35 bridges, which are anticipated to increase with Oklahoma's growing population and increasing ADT, which is expected to nearly double by the year 2040, as noted in the **Transportation Challenges** section in the **Project Description**.

Future Maintenance Costs, Savings, and Responsibilities

Over the next 36 years, the estimated maintenance and rehabilitation costs to maintain the I-35 bridges total \$8.1 million. Over 30 years, maintaining the new and rehabilitated I-35 bridges totals \$2.1 million, significantly reducing maintenance costs for ODOT. The millions of dollars in savings could be diverted to other critical maintenance needs around the state.

As a state transportation agency, ODOT plans, constructs, and maintains the state highway system in Oklahoma. ODOT will maintain the I-35 bridges in a state of good repair.

Improved Performance and Conditions with New Bridges

Replacing the I-35 NB and SB bridges will restore and modernize these critical infrastructure assets along one of the nation’s most traveled corridors to a full level of performance, and this Project will lengthen the useful life of the I-35 bridges. Replacing the two I-35 bridges over the Oklahoma River will improve the scour projection and thus improve the long-term resilience of these two critical bridges. As noted above, replacing and rehabilitating the I-35 bridges will significantly reduce future operations and maintenance costs throughout the life of the bridges. The Project is consistent with ODOT’s [2022-2031 Transportation Asset Management Plan](#) (TAMP) and it is aligned with the TAMP’s goal to “*preserve and maintain the condition of Oklahoma’s multimodal transportation system in a state of good repair through risk-based, data-driven decision-making processes*”.

Safety and Mobility

Safety

ODOT uses crash data from the Oklahoma Highway Safety Office (OHSO) because it provides in-depth crash data for specific project locations. OSHO produces publications and problem identification data, including in-depth analysis of crash numbers, rates, and locations.

As shown **Table 2**, there were a total of 4,371 collisions at the I-35/I-40 interchange (the Project area) between January 1, 2012, and December 31, 2021 (latest available data) involving 1,686 injured persons and 24 fatalities. This is the equivalent of 1.2 collisions per day over 10 years. Of those injuries, 110 were of sufficient severity that the injured person was incapacitated.

Table 2: I-35/I-40 Interchange Collisions

Type of Collision	Fatality	Injury	Property Damage	Total
Rear-End	3	646	1,656	2,305
Head-On	4	4	1	9
Right Angle	1	64	81	146
Angle Turning	1	54	149	204
Other Angle		1	3	4
Sideswipe Same Direction	1	137	934	1,072
Sideswipe Opposite Direction	1	5	4	10
Fixed Object	6	143	226	375
Pedestrian	2	6		8
Pedal Cycle		1		1
Animal			1	1
Overturn/Rollover	1	38	23	62
Other Single Vehicle Crash		7	29	36
Other		24	114	138
Total	20	1,130	3,221	4,371

SOURCE: OKLAHOMA HIGHWAY SAFETY OFFICE

Crash Reduction Factors

To compute the expected crash reduction associated with the infrastructure improvements, this analysis leverages CMFs from the CMF Clearing house.

Lane Increase: The analysis uses CMF ID: 8335 to estimate the expected crash reduction associated with the additional lane. The CMF is .75 for an additional lane in an urban area, which indicates an expected crash decrease of 25 percent. This reduction is applicable to all crash types and for all severities except for property damage only (PDO) crashes. Given the number of PDO crashes on these facilities, and the nature of the crashes, this should be considered a conservative estimate as no benefit is applied to 74 percent of the crashes.

Additional Safety Benefits (not quantified in the BCA)

The Project includes additional shoulder widening to be consistent with modern design practice. For this improvement, the CRF Desktop Reference Manual has a crash reduction factor (CRF) of .20 (or a CMF of .80) for upgrading facilities with less than 4-foot shoulder to over 8 foot. Traditional practice for combining CMFs as prescribed by the Highway Safety Manual is that CMFs be multiplied together. In this Projects case, that would equate to a combined CMF of (.75*.8) 0.6 to account for both geometric improvements. This was not included to ensure a conservative estimate of benefits.

Potential Crash Reduction

In summary, the Project is anticipated to reduce annual collisions by at least 25 percent, based on the CRFs for additional lanes of travel. The Project also includes widening shoulders, which on its own would reduce crashes by 20 percent. When combined with the additional lane benefits crash reduction could reach up to 40 percent.

Mobility

As outlined in the **Transportation Challenges** section, the I-35 bridges are often congested, causing roadway users to experience delays. As shown in **Table 3**, the Project will improve mobility for roadway users. Drivers, transit users, and truck freight will benefit from improved travel times, increased safety, reduced congestion, and improved reliability on the I-35 NB and SB bridges. These mobility improvements will expand access to jobs and opportunities as further detailed in the **Equity** section.

The 2020 ADT on both bridges is 136,350 and is projected to grow to 218,160 by 2040. The total person miles traveled in 2020 was 227,704 and based on projected 2040 ADT the total person miles will increase to 364,236.

Truck traffic makes up 12 percent of the vehicles on the I-35 NB and SB bridges. Today, there are more than 16,000 trucks per day that cross the I-35 NB and SB bridges, and this will increase to over 26,000 trucks per day in 2040. The Truck Travel Time Reliability (TTTR) on the I-35 NB and SB bridges was 2.36 and 4.33, which is rated as poor. ODOT's TTTR Interstate target is 1.33 and the current statewide average TTTR is 1.27. The **Freight Movement** section provides further information on the importance of the Project to the freight network.

EMBARK, Oklahoma City's transit agency, route 024, known as the Norman Express, crosses the existing I-35 NB and SB bridges over the Oklahoma River. The Norman Express intercity bus provides service between Norman to Oklahoma City, the Oklahoma State Capitol and

surrounding offices, the OU Medical Center, and cultural attractions including the Oklahoma City National Memorial & Museum, the Oklahoma City Museum of Art, and the Civic Center Music Hall, among others. EMBARK operates nine inbound and nine outbound routes each day with an average daily ridership of 83 passengers. Only 45 percent of the Norman Express buses achieved on time performance, which may contribute to low ridership. The 2022 OKC Moves Bus Study identified that “Ridership and productivity on Route 024 may be improved by making the service faster...The route may also be improved by adding later evening service, and operating at more consistent, clockface service frequency.”³ Reducing congestion on the I-35 bridges may increase ridership on the Norman Express route.

Table 3: Mobility Impacts of the Project

	I-35 NB	I-35 SB
Travel Lanes (Current)	Five 10-foot lanes	Five 10-foot lanes
Travel Lanes (Proposed)	Six 12-foot lanes	Six 12-foot lanes
Structure length	820 feet	820 feet
Roadway width	72 feet NB Bridge (four lanes) and 42 feet Ramp Bridge (two lanes)	96 feet
Shoulders	12 feet	12 feet
Design Load	MS 18 (Metric); HS 20 (English)	
2020 ADT	67,950	68,400
2020 Person Miles Traveled	67,950 x 1.67 = 113,476	68,400 X 1.67 = 114,228
2020 Total Person Miles Traveled	227,704	
2040 ADT	108,720	109,440
2040 Person Miles Traveled	108,720 x 1.67 = 181,562	109,440 x 1.67 = 182,764
2040 Total Person Miles Traveled	364,236	
2020 Average Daily Truck Traffic	8,154 (12%)	8,208 (12%)
2040 Average Daily Truck Traffic	13,046 (12%)	13,132 (12%)
Truck Travel Time Reliability	2.36 (Poor)	4.33 (Poor)

SOURCE: ODOT AND 2020 NATIONAL BRIDGE INVENTORY FILES

Economic Competitiveness and Opportunity

Freight Movement

I-35 traverses six states and is on the National Highway System (NHS), Strategic Highway Network (STRAHNET), National Highway Freight Network (NHFN), and the National Multimodal Freight Network (NMFN). I-35 is one of the most significant truck freight corridors in the U.S. and the highest volume truck corridor in Oklahoma. There are over 16,000 trucks per day that cross the I-35 NB and SB bridges with average daily truck traffic at 12 percent.

³ https://www.okcmoves.org/files/ugd/b59736_25bf184f61804995b948d08b970cb45f.pdf

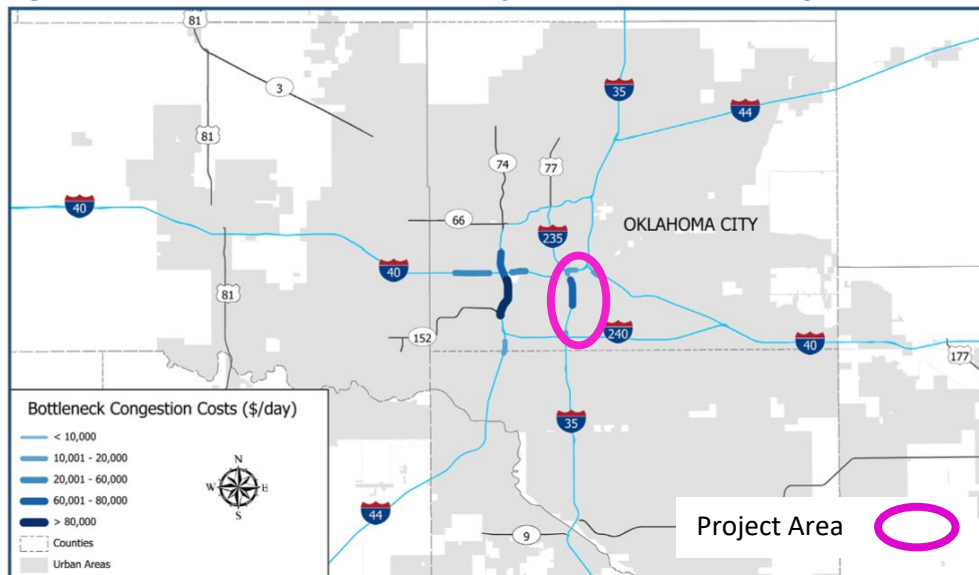
In Oklahoma City, I-35 intersects other major east-west freight corridors, I-40 and I-44, and the I-35 bridge in Oklahoma City is critically located at the crossroads of intercontinental goods movement, linking west and east coast ports to major urban areas throughout the country, and connecting to the major US-Mexican trade route.

While the Project location was not identified as a top 100 national freight bottleneck in FHWA’s 2019 analysis, this Project addresses one of the worst freight bottlenecks in Oklahoma as identified in the 2023-2030 Oklahoma Freight Transportation Plan. The Freight Transportation Plan analysis indicates that daily cost of congestion at the at the I-35 bottleneck could be as high as \$80,000 per day or nearly \$30 million annually as shown in **Figure 3**.

The 2022 Truck Travel Time Reliability (TTTR) on the I-35 NB and SB bridges was 2.36 and 4.33 respectively, which is rated as Poor, more than double the ODOT’s TTTR Interstate reliability target of 1.33. Additional information on TTTR is in the **Transportation Challenges** section in the **Project Description**. Replacing and widening the I-35 bridges will improve traffic flow and freight reliability and therefore improve the movement of goods.

As the largest single North-South truck freight corridor in the Central United States, I-35 is crucial both for Oklahoma and for the Nation. As shown in **Figure 4**, traffic across the I-35 bridge originates in all parts of the state. In Acres Park, which lies just south of the Project location, there are several freight and logistic centers which would benefit from improved freight flows across I-35, including Pallet Logistics of America, Saia LTL Freight, Old Dominion Freight Line, and Estes Express Line. There are limited truck parking areas in the Project area.

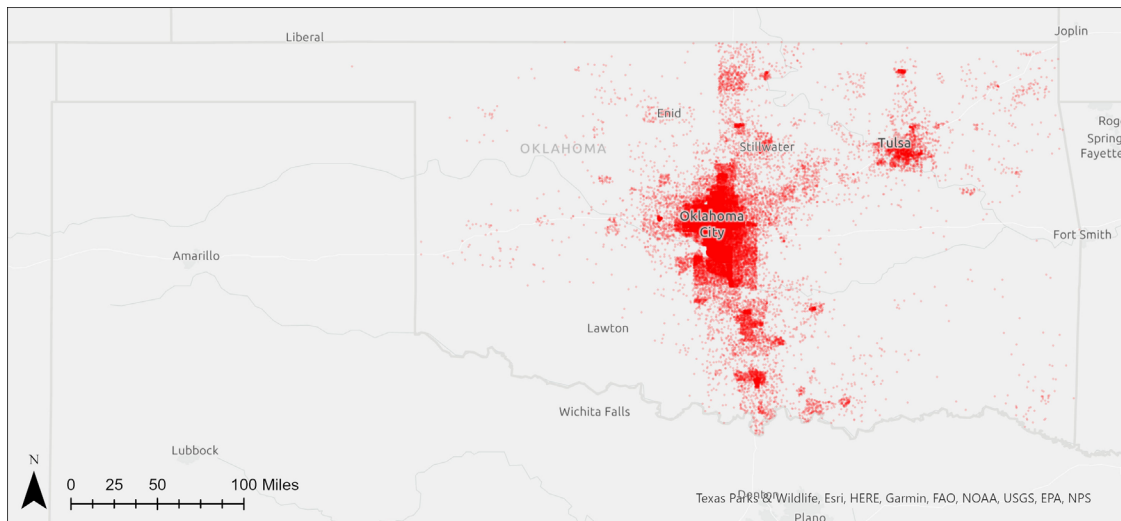
Figure 3: Oklahoma Freight Bottlenecks



SOURCE: ANALYSIS OF HIGHWAY PERFORMANCE MONITORING SYSTEM AND NATIONAL PERFORMANCE MANAGEMENT RESEARCH DATA SET⁴

⁴https://oklahoma.gov/content/dam/ok/en/odot/ompt/freightplan/2030freightplan/OKFreightPlan2023-2030_FINAL_FreightPlan_withAppendices-1.pdf

Figure 4: Origins of Weekday Trips Using the I-35 Bridges



SOURCE: REPLICA, SPRING 2023 DATA

Enhanced Recreational and Tourism Opportunities

The Oklahoma River was dammed in 2004 as part of Oklahoma City’s first Metropolitan Area Projects (MAPS) capital improvement program for new and upgraded sports, recreation, entertainment, and cultural facilities. The \$54 million project, supported by a self-imposed sales tax increase, rejuvenated the dry riverbed of the former North Canadian River by creating a dam-controlled river segment flanked by landscaped recreation Oklahoma River trails that connect to the larger Oklahoma City Trails network. This transformative public investment led to the privately funded construction of the Chesapeake Boathouse in 2006. There are now numerous boathouses, including the University of Central Oklahoma Boathouse and the \$10

Executive Director Mike Knopp states, “Hosting international races at this level means that some athletes and coaches will move to Oklahoma City to live, work, and train ... You will also have officials, coaches, and family members as well as media. We will see the impact in our hotels, restaurants, transportation, tourism, and entertainment. That is not even considering the economic ripples that happen when a city is elevated like this on the world stage.”

million Devon Boathouse which is home to the U.S. Rowing National High-Performance Center.

However, Olympic-level international rowing events require 2,000 meters of unobstructed linear river; the current I-35 bridge piers obstruct that course. The new I-35 bridges will only have three piers on each bridge (current bridges have five piers); this design will provide adequate room to host future Rowing World Cups, NCAA rowing events, and other officially sanctioned events such as the U.S. Rowing National Championships and Olympic trials. The Project will include spectator viewing areas providing exceptional pedestrian-accessible observation opportunities for residents and visitors. The previous investments and the continued economic success of Oklahoma City will benefit from having a multimodal bridge over the Oklahoma River.

Riversport has estimated the economic impact of the races announced through 2025 will exceed \$10 million, with each competition drawing 400 to 800 athletes from more than 60 countries for pre-event training weeks before the competitions.

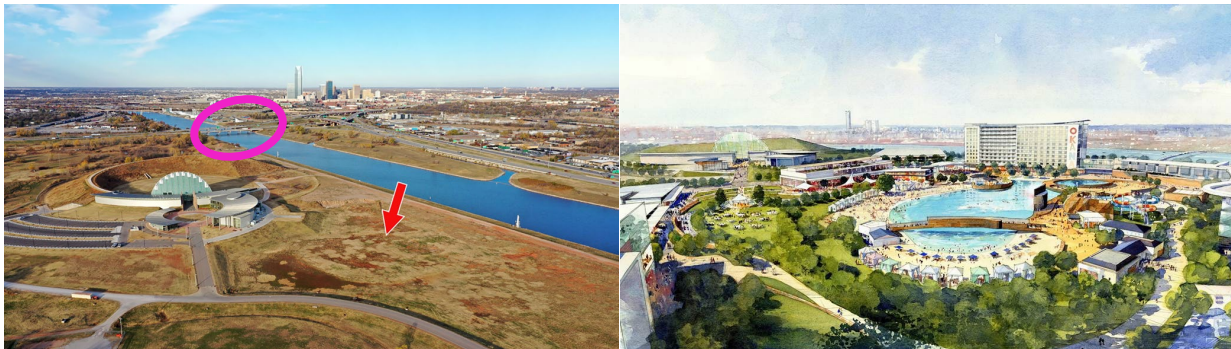
The Project will provide access to Oklahoma City Parks Department’s Regatta Park on the north side of the river and will directly connect to Oklahoma City’s extensive bicycle and pedestrian recreational and transportation trail network illustrated in the **Equity, Multimodal Options, and Quality of Life** section.

New Development - OKANA Resort

The Chickasaw Nation is developing a \$300 million private [OKANA resort](#) next to the First Americans Museum on the downtown riverfront shore and adjacent to the Project (**Figure 5**). In addition to an 11-story, 404-room hotel riverfront hotel, the private resort will include a spa, outdoor adventure lagoon, indoor waterpark, gold center, conference space amphitheater, restaurants, Native American marketplace, and retail outlets. The multimodal bridge will provide a direct walking or biking connection to and from downtown Oklahoma City and the OKANA resort, which should increase tourism in downtown Oklahoma City and at the OKANA Resort.

The OKANA resort is a mixed-use development and is projected to have a \$97 million impact on Oklahoma City within one year of completion and a billion-dollar impact within the next decade. It is estimated that within the first decade, OKANA resort will create 800 full-time jobs.

Figure 5: OKANA Resort Site and Rendering



SOURCE: UNITED FOR OKLAHOMA Project Area



Job Creation & Workforce Training Programs

As of September 2023, the average hourly pay for highway construction jobs in the Oklahoma City metro area is \$26.23 an hour, which is higher than the median hourly wage of \$24.54 for all jobs in the region according to the Bureau of Labor Statistics. Recognizing the opportunity these jobs present for economic upward mobility, ODOT annually sponsors a Transportation & Construction Job Fair with industry recruiters. The event is free of charge and allows job seekers to meet with recruiters from all aspects of transportation, civil engineering, surveying, trucking, highway construction and heavy equipment operations. Special emphasis is placed on recruiting women and minorities to attend the event. According to a [recent study](#) by Today’s Homeowner reports, Oklahoma ranks in the top 25 percent of states with the highest percentage of female construction trade workers, and there is great opportunity to expand

those numbers. Women Accessing Non-Traditional Trade (WANTT), a local nonprofit, is also encouraging more women to consider construction as a career path. WANTT provides a free, eight-week pre-apprenticeship training program to teach women skills in tools, construction math, and CPR.

ODOT has also established an On-the-Job Training (OJT) Program in accordance with regulations of the U.S. Department of Transportation at 23 CFR Part 230, Subpart A, Equal Employment Opportunity on Federal and Federal aid Construction Contracts. It is ODOT's policy to require full utilization of all available training and skill improvement opportunities to assure the increased participation of minority groups, disadvantaged persons, and women in all phases of the highway construction industry. The federal OJT program targets disadvantaged individuals, minority groups, and women for entry into journey level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical under-representation of members of these groups in highway construction skilled crafts. For more information on services available to Disadvantaged Business Enterprises (DBE), as well as the Transportation Assistance Program (TAP), which trains people of color and women for jobs in the transportation and construction industries, please see **Considerations to Support Good-Paying Jobs and Strong Labor Standards** section.

Climate Change, Sustainability, Resiliency, and the Environment

Greenhouse Gas Emissions and Air Pollution

According to analysis by the Neighborhood Center for Technology, the Annual CO₂ Emissions from Auto Use Per Household for Census Tract 1053⁵, where the Project is located, is 9-10.5, higher than most of the surrounding tracts.

Primary goals of replacing and rehabilitating the I-35 bridges are to reduce congestion on this section of I-35 as traffic volumes in Oklahoma City continue to increase by up to 30 percent by 2040, and to encourage mode shift to active transportation, both of which would reduce air pollution from carbon dioxide (CO₂). The Project may also reduce the effect of ozone (O₃), for which the Oklahoma City region has worked tirelessly to remain in attainment with EPA air quality standards. Oklahoma City is one of the very few major metropolitan areas in the United States to remain in air quality attainment. This Project would contribute to maintaining attainment in the region and improving air quality, especially in the Historically Disadvantaged Community and Area of Persistent Poverty in the Capitol Hill district adjoining the Project location, as further described in the **Impacts on Disadvantaged Communities** section.

Resiliency

Due to its geology, rivers, and flood plains, ODOT has long recognized the vulnerability of its transportation assets to extreme weather and the risks it can present to the condition and performance of pavements and bridges; therefore, ODOT has integrated resiliency considerations into its life cycle planning and project programming processes. ODOT has developed well-regarded resiliency focused design guidelines for bridges and roadways in

⁵ <https://htaindex.cnt.org/compare-greenhouse-gas/>

flood-prone areas to reduce potential damage from extreme weather events and minimize overall life cycle costs and is increasingly incorporating resiliency and redundancy considerations into its decision making.

Replacing and rehabilitating the existing bridges with new infrastructure and modern materials would address concerns regarding the structural deficiency of the existing bridges and offer an opportunity to improve resiliency to natural and man-made hazards and disasters.

Scour, or the erosion of soil around a bridge pier, is one of the main reasons for bridge collapse. The current I-35 bridges each have five piers in the water (10 total). The new bridges will utilize three continuous spans with plate girder steel beams. The continuous spans will allow the longest span over the center of the river to have a less deep section than if simply supported spans were used.

Increasing the vertical clearance on the new I-35 bridges is not necessary since this section of the Oklahoma River is a dammed facility. This feature improves the resiliency of the two I-35 bridges and will allow all the bridges to operate consistently despite the increased likelihood and frequency of extreme weather events.

Impacts on Disadvantaged Communities

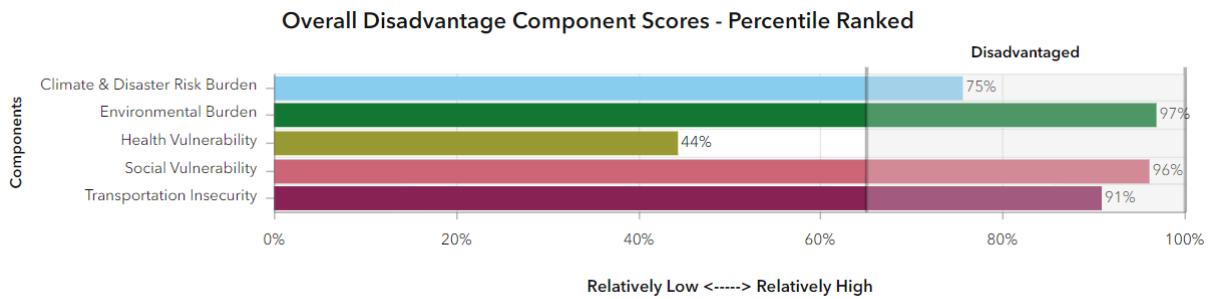
The Project is in Census Tract 1053, and it is categorized as “Disadvantaged” using the most recent Justice40 methodology and it is also a Historically Disadvantaged Community and an Area of Persistent Poverty based on the USDOT Grant mapping application.

Over 50 percent of Census Tract 1053’s population is Hispanic or Latino, and the share of people who have asthma is in the 94th percentile. The tract’s assessment for “low life expectancy” is in the 98th percentile, according to Justice40 data from the Climate and Economic Justice Screening Tool. Residents of Tract 1053 are in the 87th percentile for diesel particulate matter exposure and 84th in PM2.5. The National Institutes of Health have determined that there is “consistent evidence that exposure to traffic-related air pollution...is associated with an increased risk of developing asthma.”⁶ Reducing congestion at the Project location and encouraging mode shift to walking, biking, or transit as described above, may reduce residents’ exposure to potentially dangerous air pollution.

The USDOT Equitable Transportation Community Explorer also indicates that the census tracts adjacent to and including the Project location rank high for disadvantaged indices for transportation insecurity as well as environmental burden (**Figure 6**). The Project’s multimodal budget, which is not included in this BIP Large Bridge funding request, will provide additional low-cost multimodal transportation options to improve transportation insecurity, as well as reduce air pollution due to congestion which may improve the area’s environmental burden.

⁶ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7648850/>

Figure 6: Disadvantaged Component Scores



SOURCE: USDOT EQUITABLE TRANSPORTATION COMMUNITY (ETC) EXPLORER⁷

PlanOKC is Oklahoma City's new comprehensive plan and the [planOKC Interactive Map](#) shows that the Project location is in a mix of Urban Medium Intensity and Urban High Intensity land use areas. Medium intensity urbanized areas are reflective of the historic urban core, which balances small-and medium-lot housing and commercial districts. High intensity areas apply to the area surrounding the central business district, where developments may likely have notably higher densities, scale, and mixture of uses. The Project also aligns with numerous safety, streets, sidewalks and trails, health, parks and recreation, economic development, land use and urban design goals laid out in [planOKC](#).

The Project is adjacent to a Revitalize Retail Priority Area, which is identified in the [Oklahoma City Retail Plan](#) as an area needing policies geared toward strengthening existing retail uses through re-tenanting of vacant space, the elimination of retail space to “right size” the node or corridor, landscape and beautification efforts, façade programs, business coordination, and the potential introduction of new complementary land uses. The OKANA resort is a mixed-use development just one mile from the easternmost point of the Project location and additional information on this development is in the **Economic Competitiveness and Opportunity** section.

Equity and Quality of Life

Equity

One of the primary purposes of the Project’s connection across the Oklahoma River is to remove barriers and reconnect communities. This Project sits on the edge of three census tracts, connecting Census Tracts 1039 and 1053 in Capitol Hill on the south side of the Oklahoma River with Census Tract 1097 on the north side. Both Census Tracts 1039 and 1053 are largely residential and are designated as Justice40 disadvantaged tracts as defined by the Climate and Economic Justice Screening Tool and Areas of Persistent Poverty. Tract 1053, where the Project is located, is also a Historically Disadvantaged Community. Tract 1097 is an Area of Persistent Poverty. The populations of both Tracts 1039 and 1053 are over 60 percent Hispanic/Latino, compared to a countywide average of 18 percent and a statewide average of

⁷ <https://experience.arcgis.com/experience/0920984aa80a4362b8778d779b090723/page/ETC-Explorer---State-Results/>

11 percent.⁸ On the USDOT Equitable Transportation Community (ETC) Explorer, both Tracts 1039 and 1053 rank as disadvantaged for Climate and Disaster Risk Burden, Environmental Burden, and Social Vulnerability, while Tract 1039 ranks as disadvantaged for Transportation Insecurity, and Tract 1053 also ranks as disadvantaged for Health Vulnerability. Meanwhile, the Climate and Economic Justice Screening Tool identifies Tract 1053 as disadvantaged in health, housing, and transportation, while Tract 1039 is disadvantaged in health, housing, and workforce. This Project allows residents on both sides of the river to cross more easily, whether by car, bicycle, or foot, to access opportunities.

Quality of Life

The multimodal bridge provides a new pedestrian and bicycle connection to the employment centers in downtown Oklahoma City. The multimodal bridge will connect the Oklahoma River trails on the south side of the river with the recreation amenities of the Boathouse District, as well as with the Bricktown River Walk Park. This park has walking and biking trails which lead to Oklahoma City's bustling downtown, passing by a light rail stop and the city's Amtrak station. This Project, therefore, provides increased affordable and accessible transportation choices for the disadvantaged communities in Capitol Hill, improving walkability and the accessibility of a growing area of Oklahoma City for pedestrians and bicyclists.

The reconstructed interstate and multimodal bridges will increase affordable and healthy transportation choices in the Project area and reduce transportation cost burdens by reducing congestion and expanding active transportation options. The multimodal bridge may potentially help reduce auto dependence for residents that do not own a vehicle in this underserved community. The Project will provide a new accessible active transportation connection between two brownfield grant redevelopment sites which now feature green space and trails on the banks of the Oklahoma River: the Riversport Rapids in Regatta Park and the First Americans Museum (FAM). The First Americans Museum is a one-of-a-kind center highlighting the trials and triumphs of the Indigenous People of North America. Its unique landscaping and architecture provide a place of cultural history and a sanctuary for learning and solitude. The Project will provide further access to free and accessible green space surrounding the First Americans Museum and upcoming OKANA development, the north and south Oklahoma River trails, as well as Regatta Park and the Bricktown River Walk Park on the north side of the Oklahoma River. The Bricktown River Walk Park provides green space and access to the Bricktown District, an entertainment and dining district reconstructed from an underused warehouse district. **Figure 1** in the **Project Description** shows the Project location and proximity to the surrounding amenities.

Public Engagement

An integral part of the Project's development has been the consistent continued discussion with a broad base of stakeholders to arrive at a "consensus built" bridge solution for the Oklahoma River crossing that not only understands and meets the needs of each stakeholder and ensures equity considerations, but also meshes with the financial abilities of the Project

⁸ U.S. Census Bureau (2017-2021). *Hispanic or Latino Origin by Race American Community Survey 5-year estimates*. Retrieved from <<https://censusreporter.org>>

sponsors. This public engagement process followed the features of meaningful public involvement identified in U.S. DOT's *Promising Practices for Meaningful Public Involvement in Transportation Decision-making*. While there was an initial desire to have an iconic structure with no bridge piers in the Oklahoma River, after meaningful discussion, the consensus resulted in right the recommendation of the steel girder span structure with three piers in the Oklahoma River with a multimodal bridge connecting the Oklahoma River trails on each side of the river.

The Project is unique in that it is taking place in a new frontier of urban development with a unique meshing of cultural, commercial, and residential development with a broad partnership base. An Interchange Capacity Study, Long Span Bridge Study, and stakeholder involvement meetings have brought together a strong partnership between the State of Oklahoma (ODOT), Tribal Community (Chickasaw Nation), local municipalities and agencies (City of OKC, Riversport Oklahoma River Authority), community-based groups (ACOG, First American Museum, and OKC Chamber) and local resident groups (Capitol Hill Community), which is a historically underserved and underrepresented community.

Due to the proximity of the new multimodal bridge to the Oklahoma River and other features, including but not limited to trails, parks, lakes, the First Americans Museum, and the Riversport Adventures in the Boathouse District, stakeholder involvement and feedback was essential during preliminary trail design. Thus, an integral part of the Project development process has been the consistent continued discussion with key stakeholders to arrive at a “consensus built” multimodal bridge solution for the Oklahoma River crossing that not only meets the needs of each stakeholder, but also meshes with the financial abilities of the Project sponsors. The public involvement process will continue to partner with area residents to ensure the equity considerations are integrated into the Project design.

Planning and Workforce

ODOT has instituted equity-focused policies related to project procurement and construction to ensure equity in the overall project delivery and implementation. The mission of ODOT's Contract Compliance Division is to ensure equal employment opportunity within ODOT, to level the playing field for Disadvantaged Business Enterprises (DBEs) by providing full and meaningful participation opportunities in ODOT's federally funded highway projects and to plan, implement and provide guidance to prevent discrimination in federal aid programs and activities. ODOT Contract Compliance Division (CCD) implements and oversees the ODOT DBE Program and the Unified Certification Program for USDOT funded recipients, assuring compliance with 49 CFR Part 26. Both consultants and construction contractors are required to meet the stated DBE commitments. ODOT CCD conducts reviews of contractors and subcontractors at any time to ensure compliance. In addition, ODOT requires the verbatim attachment of Appendices A & E of the Title VI Program Manual to all federally assisted contracts. The appendices specifically and directly address the non-discrimination efforts required. More information on services available to DBEs, as well as the Transportation Assistance Program (TAP) is provided in the **Considerations to Support Good-Paying Jobs and Strong Labor Standards**.

Innovation

Technology Innovations

Accelerated Bridge Construction – ODOT will use Accelerated Bridge Construct (ABC) to improve site constructability, total project delivery time, and work-zone safety for the public, as well as reduce traffic impacts, onsite construction time, and weather-related delays. ABC uses innovative planning, design, materials, and construction methods safely and cost-effectively to reduce the onsite construction time that occurs when building new bridges or replacing and rehabilitating existing bridges. The Project’s construction method will utilize barges next to the site to build the superstructure. Once complete, it will be floated and then lowered into place by a series of cranes. This will minimize the interruption of traffic by allowing the existing traffic to stay on the existing bridges during the construction of the superstructure.

ITS Deployment During Construction – During construction, ODOT will use Intelligent Transportation Systems (ITS) to ensure work zones on I-35 are safe and to minimize travel delays for drivers. Radar, cameras, Dynamic Message Signs (DMS), and probe data will be used together to monitor travel speeds and congestion and support incident management. Once construction is complete, these ITS assets will remain in place and will be used by ODOT to monitor traffic and provide travel information to the public.

3D Digital Project Plans – ODOT commits to providing 3D digital project plans as part of the contracting process. This technology will allow contractors to use state-of-the-art GPS-controlled automated equipment in the construction process, which reduces the risk of human error in establishing grades and elevations while improving efficiency in earthmoving during the construction process and reducing the overall cost of construction.

Project Delivery Innovations

“No Excuses Bonus” – For construction, ODOT will incentivize contractors to achieve early delivery of the whole project and minimize traffic closures by deploying no excuses bonuses, including a substantial completion incentive valued at 5 to 10 percent of the contract and smaller incentives for internal milestones tied to key project elements.

Financing Innovations

Increased Revenue – Bills passed by the Oklahoma State Legislature in 2018 increase state revenue to ODOT by \$194.0 million per year, generated from the ownership or operation of a motor vehicle, and reduce transfers of general-purpose state revenue to ODOT by the same amount. Increased state revenue improves ODOT’s ability to meet the needs of the Project.

Funding Partnerships – ODOT will utilize multiple funding partners to unite the cultural, ethnic, and economic development districts that are accessed by using the I-35 corridor. Project partners such as ACOG, City of Oklahoma City, Chickasaw Nation, and WATCO railroad all have a history of financial partnership on large transportation projects in Oklahoma.

Benefit-Cost Analysis

BCA Results

The BCA calculates a Benefit Cost Ratio (BCR) of 3.20 with a net present value (NPV) of over \$215 million. Additional BCA information and explanation on the sensitivity analysis scenarios shown in **Table 4** is provided in the separate **Benefit-Cost Analysis Report**.

Table 4. Benefit Cost Analysis and Sensitivity Analyses Results

Scenario	Benefit-Cost Ratio	Net Present Value
Baseline	3.20	\$215,095,393
No Safety Benefit	1.78	\$75,976,549
Reduced Travel Time Benefit	1.33	\$31,967,900
Reduced Travel Time Benefit and Reduced Safety Benefit	1.00	\$102,048

Project Readiness and Environmental Risk

Technical Feasibility

Statement of Work

The I-35 NB and SB and ramp bridges will utilize a three-span configuration on plate girder steel beams. A long central span will be incorporated into the design to provide the necessary spacing to accommodate Class A course dimensions according to U.S. Rowing regulations. Between the piers, there will be room for seven 13.5-meter lanes (or eight 12-meter lanes) with a 5-meter buffer between the outer lanes and the piers. A minimum of 14-foot clearance will be provided over the normal water surface elevation to allow for motorized boat traffic. The bridge width will be approximately 96 feet for I-35 SB to accommodate six lanes with 12-foot shoulders. I-35 NB will be approximately 72 feet wide (four lanes with shoulders) and the two-lane ramp bridge approximately 42 feet wide. The three bridges will be approximately 820 feet long with a primary span extending at least 360 feet. A proposed multimodal bridge will be offset west of the I-35 SB bridge. The continuous spans will allow the longest span over the river's center to have a less deep section than if simply supported spans were used.

To connect the multimodal bridge to the Oklahoma River Trail system, ADA-compliant ramps will branch off the existing Oklahoma River trail to provide pedestrians and cyclists access to the multimodal bridge. Vertical abutments will be used at the north bank of each bridge to allow adequate clearance and spacing for the trail to run under the bridge. The Mechanically Stabilized Earth (MSE) walls will be used to tie to the vertical abutments so that the alignment of the existing trail will not require extensive alteration. The MSE walls will also assist in minimizing the amount of additional right-of-way acquisition needed for the project. Handrailing will be used along the extent of the paths under the bridges on both banks of the river to deter pedestrians from straying toward the I-35 traffic. Lighting and other aesthetic enhancements will be provided on the bridge structures and along the trail pathway to enhance the user experience and provide additional safety.

To accommodate the widened I-35 roadway section, deck and superstructure rehabilitation and widening is included for the I-35 NB and SB bridges over the BNSF Railroad. The current bridges are three span PC beam bridges that extend over the top of three existing rail lines. It is anticipated that new columns with an additional beam line are needed to accommodate the wider bridge deck. Rehabilitation efforts may include joint rehabilitation, deck replacement, patching areas of spalling on the substructure as well as other efforts.

With the widened I-35 section, an existing bridge sized Double 10 feet x 10 feet RCB will be extended on the upstream and downstream side. The total barrel extension is anticipated to be around 15-20 feet per side. Along with extending the structure, the construction of new headwalls, wingwalls, aprons, and curtain walls will be constructed to meet current state design standards.

Technical Capacity

ODOT has the technical capacity and competency to successfully complete this Project. ODOT has a close partnership with the FHWA Oklahoma Division through which it receives its federal aid allocation and discretionary grant funding. ODOT has been awarded several discretionary grants from various programs and is familiar with developing grant agreements, administering the funding, and providing the necessary reporting. ODOT has the technical expertise and resources dedicated to the Project to provide quality control over all aspects of design and construction, ensure the Project meets all federal requirements, and keep the public informed of the Project's progress.

Civil Rights and Title VI

ODOT's Contract Compliance Division oversees the Department's Disadvantaged Business Enterprise (DBE) program and ensures that ODOT and all its consultants and contractors comply with applicable Civil Rights requirements. ODOT's 2023-2025 Triennial DBE goal is 16.0 percent and the FFY 2023 goal attainment was 17.33 percent. Total dollars to DBEs increased almost 40 percent from 2022 to 2023. Oklahoma's project-level goal setting is data-driven utilizing current DBE certification information and historical DBE pay item performance to identify the project goal achievement possibility.

Title VI of the Civil Rights Act of 1964 is the main legal authority for ODOT's external nondiscrimination programs. ODOT ensures that no person or groups of persons shall, on the grounds of race, color, sex, religion, national origin, age, disability, retaliation, or genetic information, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any and all programs, services, or activities administered by ODOT, its recipients, sub-recipients, and contractors. ODOT complies with Title VI by developing a [Title VI Implementation Plan](#), conducting internal and external compliance reviews, conducting training for staff, suppliers, vendors, contractors, local governments, and other ODOT sub-recipients of federal funds, and developing Title VI compliance information for internal and external dissemination.

Project Schedule

As shown in **Figure 7**, the preliminary study for the Project is ending, and the survey update and design process are beginning. The Project designer is under contract and construction plans are 30 percent complete. The NEPA process will begin in June 2024, right-of-way acquisition and utility relocation are scheduled to be completed in December 2025 and April 2026, respectively. A final Plans, Specifications, and Estimates (PS&E) submittal is scheduled for early 2026.

Figure 7: Project Schedule

Task	2023	2024	2025	2026	2027	2028	2029
Pre-Construction							
Preliminary Study	■	■					
Survey		■	■				
Preliminary Design (up to 65%)		■	■	■			
Access Justification Report (AJR)		■	■	■			
NEPA (DCE)			■	■			
Right of Way Acquisition (if necessary)				■	■		
Utility Relocation				■	■		
Final Plans				■	■		
Obligation of Funds					■		
Authorization & Letting							
Construction							
I-35 Bridge & Multimodal Path					■	■	■

ODOT intends to authorize the Project in early 2026 and let the Project in spring 2026. Construction is anticipated to begin in the summer of 2026 and be completed in spring 2029. The Project is sufficiently advanced to begin plan development in a timely manner and construction completed within the funding deadlines for the BIP Large Bridge program. BIP Large Bridge funds are in little danger of expiring prior to the obligation and expenditure deadline.

Required Approvals

Environmental Permits and Reviews

ODOT will apply for NEPA approval from FHWA Oklahoma Division to construct the Project once preliminary plans have been approved in spring 2025.

A Documented Categorical Exclusion (DCE) will be developed to obtain environmental clearance for this Project. A Section 4F statement will be required for the multimodal bridge since it connects to existing trails, but since it is an enhancement to those facilities ODOT is not anticipating any conflicts with this improvement. The NEPA documents will include a biological assessment, a cultural resources survey, an initial site assessment for hazardous waste, a detailed noise study, and a socioeconomic and environmental justice review.

Access Justification Report (AJR)

The Project is modifying access in an interstate-to-interstate system interchange; therefore, an AJR is anticipated to be required. ODOT has extensive experience working with FHWA on these types of documents. If required, the AJR process would initiate at 30 percent Preliminary Design stage and be completed before the 60 percent Preliminary Design Plan submittal.

Section 404 Permitting

The Project is anticipated to require Section 404 permitting. Permitting for this Project is expected to fall under Nationwide Permit 14. The United State Army Corps of Engineers (USACE) is familiar with ODOT's efforts and expectations within the I-35 and I-40 corridors. ODOT has agency liaisons in place at the USACE, which accelerate and improve the consistency of permitting reviews.

Right-of-Way Acquisition and Relocation Plan

Relocations will not be required for this Project. Minor right-of-way acquisitions are identified in the on-going preliminary study. All right-of-way acquisitions will be completed according to the Uniform Relocation Act and applicable regulations.

Public Engagement

Detail information is provided in the **Public Engagement** section.

State and Local Approvals

The Project is currently programmed in ODOT's, [Eight-Year CWP](#) and construction is scheduled in 2028 (JP Number 30444(04)).

Federal Transportation Requirements Affecting State and Local Planning

Statewide Transportation Improvement Program (STIP): The [ODOT STIP](#) incorporates the first four years of the ODOT Eight-Year CWP. If this Project receives BIP Large Bridge funding, ODOT will include it in the biennial update for the 2023-2026 STIP that will be developed in 2024.

Oklahoma Freight Transportation Plan (OFTP): The [2023-2030 OFTP](#) identifies the section of I-35 over the Oklahoma River as a truck bottleneck in proximity to identified freight generators.

Long Range Transportation Plan (LRTP) and TAMP: The [ODOT LRTP 2020-2045](#) is a policy document that provides a strategic direction for the development of the Oklahoma multimodal transportation system. This Project aligns with ODOT's long-range strategic direction. The Project improves system resilience and reliability and is consistent with the goals set out in ODOT's [2019-2028 Transportation Asset Management Plan \(TAMP\)](#) with the intent of maintaining and preserving Oklahoma's transportation network.

Statewide Active Transportation Plan (ATP): [ODOT's 2023 Statewide ATP's](#) focus on safety, equity, connectivity, and public health are aligned with the proposed multimodal bridge over the Oklahoma River that is a part of this Project but is not included in the BIP funding request.

ACOG Regional Active Transportation Plan (RATP): The Project's multimodal bridge aligns with the goals in the [RATP](#).

Assessment of Project Risks and Mitigation Strategies

Potential Project risks and mitigation strategies to minimize the potential impact of the risks are summarized in **Table 5**. Environmental and right-of-way related risks are significantly reduced given that minimal right-of-way acquisition is required, and the Oklahoma River is a controlled waterway. Meaningful public involvement is anticipated to engage the environmental justice and disadvantaged communities affected by the Project. ODOT has sufficient capacity to implement the proposed activities based on the schedule presented in **Figure 8**.

Table 5: Project Risk and Mitigation Strategies

Project Risk (Probability of Occurrence)	Mitigation Strategies
Cost Increases (High)	1) ODOT has included the Project in its Eight-Year Work Plan and remains committed to adjusting as needed to meet all BIP Large Bridge and statutory deadlines for funding obligation and expenditure. 2) Construction estimates are complete to a 30 percent level and contain 30 percent contingency, allowing for a margin of increase.
Section 404 Permitting Delays (Moderate)	1) The Project is anticipated to fall under a Nationwide Permit. Work in the Oklahoma River will be required for the construction of the bridge piers and superstructure. 2) ODOT has a liaison in place at the USACE to accelerate and streamline approvals if needed.
Contamination from Industrial Use/Underground Storage Tanks (Moderate)	1) ODOT has a well-defined, successful approach for addressing potential contamination and Leaking Underground Storage Tanks (LUST) sites. Locations where these issues may arise are identified and included within the construction plans as “Areas of Environmental Concern” to put the contractor and their employees on alert that the potential exists for encountering contamination.
Earthquakes (Low)	1) Oklahoma’s altered drilling practices have reduced the number of earthquakes in the state. All structures have seismic designs.

Administration Priorities and Departmental Strategic Plan Goals

Table 6 addresses the Administration’s Priorities and Departmental Strategic Goals: Safety; Climate Change and Sustainability; Equity; and Workforce Development, Job Quality, and Wealth Creation.

Table 6: Administration Priorities and Departmental Strategic Plan Goals

Administration Priorities and Departmental Strategic Plan Goals	Section Addressed and Details
Safety	As discussed in the Crash Reduction Factors , the Project is anticipated to reduce annual collisions by at least 25 percent, based on the CRFs for additional lanes of travel. The Project also includes widening shoulders, which on its own would reduce crashes by 20 percent. When combined with the additional lane benefits crash reduction could reach up to 40 percent.
Climate Change and Sustainability	As discussed in Climate Change, Sustainability, Resiliency, and the Environment , primary goals of replacing and rehabilitating the I-35 bridges are to reduce congestion on this section of I-35 as traffic

	volumes in Oklahoma City continue to increase by up to 30 percent by 2040, and to encourage mode shift to active transportation, both of which would reduce air pollution from carbon dioxide (CO2). The project addresses the disproportionate negative environmental impacts of transportation on disadvantaged communities both by reducing greenhouse gas emissions and by providing active transportation options to central Oklahoma City.
Equity	As discussed in Project Location , the Project is in a Historically Disadvantaged Community and an Area of Persistent Poverty. The Equity and Quality of Life covers ODOT’s commitment to build a new multimodal bridge to connect disadvantaged communities south of the Oklahoma River to jobs and hospitals in Downtown Oklahoma City. It also reduces transportation costs by reducing congestion and expanding active transportation options. The public engagement process involved various stakeholders to arrive at a consensus on the bridge’s design, ensuring it meets the needs of the community.
Workforce Development, Job Quality, and Wealth Creation	The Considerations to Support Good-Paying Jobs and Strong Labor Standards section discusses ODOT’s commitment to support good paying jobs and strong labor standards while complying with both Federal and Oklahoma laws. ODOT offers DBE Supportive Services to help DBE firms develop into self-sufficient businesses, capable of competing on federally funded highway projects.

Considerations to Support Good-Paying Jobs and Strong Labor Standards

ODOT is committed to supporting good paying jobs and strong labor standards while complying with both Federal and Oklahoma laws.

Oklahoma Unified Certification Program for Disadvantaged Business Enterprises

ODOT serves as the Unified Certification Program (UCP) for the State of Oklahoma, providing a one-stop-shop where disadvantaged businesses that meet the DBE certification requirements and become certified are eligible to be used to meet the DBE goal requirements on any project with funding from the USDOT. ODOT’s 2023-2025 Triennial DBE goal is 16.0 percent and the FFY 2023 goal attainment was 17.33 percent. Total dollars to DBEs increased almost 40 percent from 2022 to 2023. Oklahoma’s project-level goal setting is data-driven utilizing current DBE certification information and historical DBE pay item performance to identify the project goal achievement possibility. ODOT offers DBE Supportive Services to help certified DBE firms in Oklahoma develop into self-sufficient businesses, capable of competing on federally funded highway projects. These services, provided under FHWA guidelines, aim to increase the number of active minority businesses in the highway program and contribute to their growth and self-sufficiency. ODOT's commitment includes offering various forms of training and technical assistance, all free of charge.

ODOT strives to ensure equal opportunities and to level the playing field for Disadvantaged Business Enterprises by providing full and meaningful participation opportunities on our

federally funded projects. ODOT conducted a [Disparity Study](#) in 2021 to evaluate DBE opportunities and the Department is using the input to develop innovative solutions to strengthen the DBE program.

Transportation Assistance Program

The ODOT Contract Compliance Division recently hosted a Transportation Assistance Program (TAP) at Eastern Oklahoma County Technology Center on Oct. 30-Nov. 3, 2023. TAP is a free, week-long, job training program that prepares women and people of color seeking jobs for entry into the transportation and construction job market. TAP provides valuable certification training opportunities that businesses look for when hiring individuals in the transportation and construction trades. The program includes hands-on experience and free certification in forklift operation/safety, work zone flagging, CPR/First Aid/Bloodborn Pathogen training, OSHA 10-Hour Construction, and workforce skills.

DOT Priority Selection Considerations

The Project meets the two initial considerations outlined in the NOFO. **Table 7** identifies the relevant sections that addresses each consideration.

Table 7: DOT Selection Considerations

Initial Considerations		Section(s)
(A) Plans to improve the condition of a bridge or bundle of bridges in poor condition or in fair condition and at risk of falling into poor condition within the next 3 years	✓	Current Bridge Conditions
(B) Demonstrates but for a BIP grant the project sponsor(s) will be unable to complete the Large Bridge Project.	✓	Project Budget

The project meets 9/10 of the priority selection considerations. **Table 8** identifies the relevant sections in the application that address each consideration.

Table 8: DOT Priority Selection Considerations

Priority Selection Considerations		Section(s)
1) The geometric design standards used for the construction of the bridge met the applicable standards at that time but no longer meets the current geometric design standards.	✓	Recent Projects
2) The total future eligible project costs are no less than \$1 billion.	✓	Project Budget
3) The application demonstrated a need for a BIP grant of not less than \$100 million.	✓	Project Budget
4) The project readiness evaluation demonstrates that the project can distribute a BIP grant of not less than \$100 million over a multiple year period if a multi-year grant is awarded to the project.	✓	Project Readiness and Environmental Risk
5) The applicants are an FLMA that owns the bridge and a State, and Large Bridge Project application provides evidence that upon completion of the project, the bridge will be divested.	No	The applicant is not a Federal Land Management Agency.

6) The project is or will be ready to proceed to the next stage of project delivery within 12 months of a CE Determination, FONSI, or ROD.	✓	Project Readiness and Environmental Risk
7) The project includes accommodation for transit such as the inclusion of bus rapid lanes on the bridge.	✓	Climate Change, Sustainability, Resiliency, and the Environment
8) The project has national or regional economic significance.	✓	Freight Movement and Enhance Recreational and Tourism Opportunities
9) The project considers Workforce Development, Job Quality and Wealth Creation such as the creation of good-paying jobs directly related to the project, that may result in equitable access to those jobs, with a free and fair choice to join a union, expand training programs, and incorporates strong labor standards and includes strategies such as targeted hiring preferences for bringing in and retention of historically underrepresented workers into the workforce.	✓	New Development - OKANA Resort and Job Creation & Workforce Training Programs
10) Without a BIP grant, construction of the project is unlikely to commence before September 30 of the fiscal year plus 3 years (September 30, 2026, for FY 2023 funds, September 30, 2027, for FY 2024 funds, September 30, 2028, for FY 2025 funds, and September 30, 2029, for FY 2026 funds.).	✓	Project Budget