NEPA Re-evaluation of the I-70 Second Tier Section of Independent Utility 6 MoDOT Job No. J5P3417 Environmental Assessment

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List of Abbreviations and Acronyms

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AADT	Average Annual Daily Traffic
ADT	Average Daily Traffic
ACS	American Community Survey
AASHTO	American Association of State Highway and Transportation Officials
BMP	Best Management Practices
CFR	Code of Federal Regulations
DDI	Diverging Diamond Interchange
EA	Environmental Assessment
EIS	Environmental Impact Statement
E-Start	Environmental Site Tracking and Research Tool
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FONSI	Finding of No Significant Impact
IPaC	Information for Planning and Consultation
I-70	Interstate 70
LOS	Level of Service
MDC	Missouri Department of Conservation
MDNR	Missouri Department of Natural Resources
MoDOT	Missouri Department of Transportation
NHD	National Heritage Database
NEPA	National Environmental Policy Act
NRHP	National Register of Historic Places
NRCS	Natural Resources Conservation Service
ROD	Record of Decision
SHPO	State Historic Preservation Officer
SIU	Section of Independent Utility
SEMA	State Emergency Management Agency
SEIS	Supplemental Environmental Impact Statement
STIP	State Transportation Improvement Program
USACE	U.S. Army Corps of Engineers
USCB	U.S. Census Bureau
USFWS	U.S. Fish and Wildlife Service
USDOT	U.S. Department of Transportation
WOUS	Waters of the U.S.

1 Introduction

- 2 The study area for this re-evaluation is defined as SIU 6 of the I-70 corridor, which encompasses the US
- 3 54 interchange at Kingdom City in Callaway County and is referred to as MoDOT project J5P3417. It is
- 4 shown below in Figure 1. Previous environmental studies related to proposed improvement of the US 54
- 5 and I-70 interchange at Kingdom City include the 2001 Interstate 70 Corridor First Tier Environmental
- 6 Impact Statement (EIS) and Record of Decision (ROD) signed December 18, 2001; the Final 2005 Second
- 7 Tier Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) for the I-70 Section of
- 8 Independent Utility (SIU) 6 signed May 26, 2005; and the 2009 Supplemental EIS and ROD for Truck Only
- 9 Lanes signed August 14, 2009 which supplemented the previous first and second tier studies. Finally, in
- 10 2020, MoDOT completed a Re-Evaluation of SIU 6 for MoDOT projects J2I3226 and J2I3226B which
- 11 proposed to construct eastbound and westbound climbing lanes on I-70 at Mineola Hill
- 12 The Federal Highway Administration (FHWA) and MoDOT's Engineering Policy Guide (EPG) require a re-
- 13 evaluation when there has been greater than three years since the ROD was signed or when changes
- related to the original study have occurred. A re-evaluation also requires validating the original purpose
- and need. Due to the length of time between the current project and the previous environmental
- studies, a re-evaluation of the 2005 SIU 6 Second Tier EA is required in accordance with the National
- 17 Environmental Policy Act (NEPA) (23 Code of Federal Regulations [CFR] 771.129) and associated laws.
- 18
- 19

1 Figure 1. SIU 6 and Kingdom City Project Location



1 Background

- 2 In the fall of 1999, MoDOT initiated a tiered environmental decision-making process, referred to as the
- 3 Improve I-70 First Tier Study, to evaluate strategies for improving the I-70 corridor in Missouri, between
- 4 the metropolitan areas of Kansas City and St. Louis. The tiering process allows for a focus on corridor-
- 5 wide issues and reduces repetition in environmental documentation. First Tier decisions frame and
- 6 narrow the scope of second tier studies and related decisions. The Second Tier Studies, known
- 7 collectively as Improve I-70, looked more specifically at the recommended strategies for each SIU and
- 8 their local impacts. In order to ensure an appropriate level of detail, the Improve I-70 Second Tier
- 9 program divided the interstate into seven different geographic sections (i.e., SIUs), each with its own
- 10 environmental study and recommendations.
- 11 The Interstate 70 Corridor First Tier EIS was prepared to aid in determining the most appropriate type of
- 12 improvement concept for I-70. The ROD, approved by FHWA in 2001, selected the "Widen Existing I-70
- 13 Strategy" as the preferred alternative. This strategy would improve existing I-70 by making it six lanes,
- 14 three in each direction, in rural areas and a minimum of eight lanes, four in each direction, through
- 15 Columbia and in the metropolitan areas of Kansas City and St. Louis. The preferred alternative also
- 16 included improved access management, reconstruction of the existing roadway to enhance safety and
- 17 performance, and provisions for future transportation improvements within the median.
- 18 In 2005, the Second Tier EA and FONSI were completed, assessing impacts specific to SIU 6, from
- 19 Kingdom City to Montgomery City. In general, the selected alternative included an additional lane in
- 20 each direction along I-70, the replacement of all existing interchanges and overpasses, access
- 21 management where appropriate, and the provision for continuous frontage roads on both sides of I-70
- 22 as deemed necessary. At Kingdom City, a standard diamond interchange with a larger footprint than the
- 23 current interchange was selected as the preferred alternative. This interchange would be reconstructed
- 24 to accommodate three lanes of travel for I-70 in both directions. Future access roads to businesses
- 25 south of I-70 were proposed. Also proposed were directional ramps to the south and east between I-70
- and US 54 once traffic volumes warranted it. The railroad bridge west of Kingdom City would remain as
- it was still in use at the time of the 2005 EA. **Appendix A** includes a series of figures showing the 2005
- 28 Selected Alternative.
- 29 Building on the work of the first and second tier studies, MoDOT initiated a Supplemental Environmental
- 30 Impact Statement (SEIS) to evaluate the impacts of a new strategy for I-70 consisting of dedicated truck-
- only lanes. Approved in a 2009 ROD, the Truck-Only Lanes Strategy would construct two truck-only lanes
- 32 and two or more general purpose lanes in each direction along existing I-70. Concrete barriers, buffer
- 33 separations or grassed areas would separate the truck-only lanes and general-purpose lanes from each
- 34 other, depending on the location along the corridor. This strategy was determined to be consistent with
- 35 the decisions made in the 2001 ROD, as it would fit within the limits of the previously evaluated
- 36 footprint, to the extent possible, utilizing the preserved future transportation corridor identified in the
- 37 Widen Existing I-70 Strategy. Interchange features of the Widen Existing I-70 Strategy at the majority of
- 38 the interchanges along the corridor would also be retained.
- 39 In 2020, MoDOT completed a Re-Evaluation of SIU 6 for MoDOT projects J2I3226 and J2I3226B which
- 40 proposed to construct eastbound and westbound climbing lanes on I-70 at Mineola Hill to enable both

- 1 truck and passenger traffic to flow more safely and efficiently. The re-evaluation assessed potential
- 2 effects to resources impacted by the projects.

3 2022 Re-evaluation

- 4 MoDOT project J5P3417 proposes to improve the US 54 and I-70 interchange at Kingdom City to
- 5 enhance safety, traffic flow, and operations. A Conceptual Study was completed on April 14th, 2022,
- 6 which describes the alternatives analysis, stakeholder involvement and the process in reaching the
- 7 preferred alternative. This Study is available upon request and is not included with this document due
- 8 to file size. Most of the project would be constructed within existing right-of-way. The project proposes
- 9 to convert the existing interchange from a diamond configuration to a diverging diamond interchange
- 10 (DDI). The DDI will better handle the current and future traffic volumes and improve operations of the
- 11 interchange. The existing bridge over I-70 will be repurposed to accommodate the DDI in lieu of
- 12 replacing this bridge. Eastbound and westbound entrance and exit ramps will be lengthened to improve
- 13 the merge distance and also improve safety when entering or exiting I-70. On US 54 north of I-70, no
- 14 changes are planned. However, on US 54 south of I-70 at Janice Avenue, intersection modifications are
- 15 planned. These modifications will improve access and traffic flow to and from businesses that exist in
- 16 this vicinity. These improvements do not preclude the future full build out of I-70 since an improvement
- to the interchange at Kingdom City was always planned. Further, the US 54 bridge over I-70 will need to
 be replaced with a longer bridge to accommodate an extra lane in each direction and by utilizing the
- be replaced with a longer bridge to accommodate an extra lane in each direction and byexisting bridge, this does not affect future widening of I-70.
- 20 The proposed improvements at the US 54 and I-70 interchange are being considered for addition to the
- 21 Draft 2023-2027 State Transportation Improvement Program (STIP).
- 22 This re-evaluation assesses potential effects to resources impacted by Project J5P3417 at the US 54 and
- 23 I-70 interchange at Kingdom City in SIU 6 and compares these effects to the findings of the 2005 EA, as
- 24 the selected alternative in the EA has the potential to be implemented in the future.

25 Purpose and Need

As noted in the 2001 First Tier EIS, the goal of I-70 improvements along the entire Missouri corridor is to provide a safe, efficient, environmentally sound, and cost-effective transportation facility that responds to the needs of the study corridor and to the expectations of a nationally important interstate. Additionally, the 2005 Second Tier EA documented the development of the purpose and need for the

- SIU 6 improvements. The specific purpose and need addressed by the proposed action in SIU 6 is
 summarized as follows:
- 32 33

34

- **Roadway Capacity** Capacity improvements for the Kingdom City interchange, as well as mainline I-70 were selected to improve the general operating conditions of I-70.
- Traffic Safety Reduce the number and severity of traffic-related crashes occurring along the
 SIU 6 portion of I-70 including localized safety improvements in the Kingdom City interchange.
- Roadway Design Features Upgrade current roadway design features to meet recommended
 design criteria for I-70 improvements, including interchanges, roadway alignment and cross
 sections, median and outer roads.

- System Preservation Preserve the existing I-70 facility as needed to carry existing and future
 loads.
- National Security The enhancements offered by the typical section, including improvements to
 the Kingdom City interchange, will enhance the ability of the I-70 Corridor to support the system
 needs for disaster response and national security.
- 6 The 2009 SEIS did not alter the project's purpose and need. Therefore, the 2005 Second Tier EA purpose
- 7 and need was reviewed to ensure validity as part of this current re-evaluation. Each purpose and need
- 8 element are discussed below.

9 <u>Roadway Capacity</u>

- 10 As noted in the 2005 EA, the actual traffic volumes or Average Daily Traffic (ADT) on US 54 north and
- south of I-70, were 11,220 and 14,010 respectively. The traffic volume for the same period on the SIU 6
- 12 segment of I-70 at Kingdom City was 29,890 ADT. Although a slower rate of growth than projections
- 13 indicated in the 2005 EA, the corridor is still experiencing notable growth in traffic levels which will lead
- 14 to increases in travel delay and queueing. Current and projected traffic ADTs are shown in the **Table 1**
- 15 below.

16 **Table 1. Existing and Future Traffic Volumes**

Location	Existing Traffic Volumes for 2021	2045 Traffic Projections
I-70 Mainline near Kingdom City	40,573	45,732
US 54 North of I-70	11,941	13,459
US 54 South of I-70	16,763	18,895

17 In the 2005 EA, these volumes were projected to increase to 16,010 (US 54 north of I-70), 19,650 (US 54

18 south of I-70) and 69,010 on I-70 at Kingdom City by 2030. This would result in the roadway level of

19 service (LOS) to drop below MoDOT standards to a LOS of E. The 2045 projections would still result in a

20 lower LOS and therefore, the roadway capacity element of the purpose and need remains valid for

- 21 Project J5P3417.
- 22 Traffic Safety
- 23 MoDOT strives to reduce the number and severity of crashes on the state's roadways as traffic safety is
- 24 a primary goal of the department. According to the crash data in the 2005 EA, SIU 6 needs several safety
- 25 upgrades. While this project does not include improvements to the cross-section of I-70, the 2005 EA
- 26 noted that medians should be improved in areas where median widths are not up to existing standards
- 27 to prevent cross-median crashes. Specifically, in the Kingdom City area, longer ramps and
- 28 merge/acceleration lanes would allow heavy trucks to better enter the flow of traffic, as this area tends
- to have higher volumes and a higher percentage of large trucks. Crashes were evaluated at the ramp
- 30 merge sections of the interchange, and it was found that actual crashes were higher than what was
- 31 predicted using the Highway Safety Manual freeway and ramp crash prediction methodology. At the
- 32 eastbound entrance ramp merge area, total crashes are six times higher than predicted with fatal and
- injury crashes nearly three times what is predicted. At the westbound entrance ramp merge area, total
- crashes are eight times higher than predicted with fatal and injury crashes seven times higher than
- 35 predicted. The crashes in this merge area included two fatal crashes during the five-year crash period
- analyzed. The proposed improvements to the US 54/ I-70 interchange and ramp merge lengths will
- 37 effectively reduce the number and severity of traffic-related crashes. Therefore, the traffic safety
- element of the purpose and need remains valid for Projects J5P3417.
- 39

1 Roadway Design Features

- 2 For the Improve I-70 study, MoDOT adopted fairly stringent minimum design criteria. In general, design
- 3 criteria were based on the MoDOT EPG and provisions of the American Association of State Highway and
- 4 Transportation Officials (AASHTO) Policy on Geometric Design of Highway and Streets, 2001, Fourth
- 5 Edition, where applicable. There are four interchanges in SIU 6 including the US 54 interchange at
- 6 Kingdom City. Each of these is a standard diamond interchange. Each interchange was evaluated to
- 7 determine if it met current requirements for spacing between ramp termini and between ramp termini
- 8 and outer roads. The evaluation concluded that none of the interchanges meet the Improve I-70 Study
- 9 minimum design criteria and MoDOT access management guidelines of 800 feet spacing between ramp
- 10 termini and a minimum ramp spacing of 1,350 feet between ramp termini and outer roads or 800 feet
- 11 between ramp termini and right turns.
- 12 At the US 54 interchange, ramp termini spacing is 545 feet; spacing between ramp termini and outer
- 13 road is 850 feet for eastbound entrance/exit ramps and 1500 feet for westbound entrance/exit ramps;
- 14 and spacing between ramp termini and driveway is 500 feet for westbound entrance/exit ramps and not
- applicable for eastbound entrance/exit ramps. Project J5P3417 would alter some elements of the
- 16 interchange; therefore, the roadway design features of the purpose and need would still apply for the
- 17 project.

18 System Preservation

- 19 Based on 2002 data, the majority of pavement in SIU 6 is rated, on average, either Poor or Fair. Since
- 20 that time, pavement has been resurfaced by MoDOT as necessary. Improving the US 54 and I-70
- 21 Interchange at Kingdom City is needed for safety and traffic operations with traffic volumes increasing
- 22 and is part of preserving the existing I-70 facility to carry it into the future Therefore the system
- preservation element of the purpose and need remains valid to Project J5P3417.

24 National Security

- 25 I-70 is a key corridor in the Strategic Highway Network and a primary facility for moving personnel and
- 26 equipment for deployment and emergency response. As stated in the 2005 EA, the interchange at I-70
- 27 and US 54 is an important node in the state's portion of the Strategic Highway Network. At the Kingdom
- 28 City interchange, US 54 links the resources located in the state capital, the Lake of the Ozarks, and Fort
- 29 Leonard Wood with I-70, which in turn, connects it to the broader state and interstate system. The
- 30 enhancements offered by the typical section, including improvements to the Kingdom City interchange,
- 31 would enhance the ability of the I-70 Corridor to support the system needs for disaster response and
- 32 national security. Therefore, the national security element of the purpose and need remains valid for
- 33 Project J5P3417.
- In summary, except for the System Preservation elements, the purpose and need identified in the 2005
- 35 Second Tier EA remains valid for the current re-evaluation for the US 54 and I-70 interchange project 36 J5P3417.

37 Preferred Alternative

- 38 The proposed project J5P3417 would improve the US 54 and I-70 interchange by converting the existing
- diamond interchange to a diverging diamond interchange (DDI). The project would also significantly
- 40 extend both entrance ramps and both exit ramps to improve traffic operations and safety for traffic
- 41 entering and exiting I-70. South of I-70 on US 54, the Janice Avenue intersection would be modified to
- 42 better accommodate trucks and other traffic at this location. No changes would be made to local streets
- 43 north of I-70 as part of this project as the DDI will create gaps in traffic that will enable left-hand turns

- 1 from the I-70 westbound exit ramp onto Dunn Drive. Most of the improvements will be completed
- 2 within existing MoDOT right-of-way. Only minor amounts of right-of-way will be required, totaling
- approximately 1.28 acres. The preferred alternative is shown in **Figure 2**. For comparison the 2005
- 4 Kingdom City selected alternative and environmental features maps are shown below in **Appendix A**.
- 5 Figure 2. Preferred Alternative for the US 54 and I-70 Interchange

6

7 Public and Agency Coordination

On September 10, 2021, during the planning stages of the project, MoDOT issued a notice informing the 8 9 public of the proposed US 54 and I-70 interchange project at Kingdom City and the re-evaluation of the 10 2005 Second Tier EA. MoDOT accepted public comments through October 11, 2021, and six comments 11 were received. The comments were neutral to supportive of the proposed project and noted safety, 12 traffic delays, and truck traffic as factors which support the need to improve the interchange. In 13 addition, a Public Safety Survey was conducted from September 22-October 15, 2021 and Stakeholder 14 Meetings were held September 21, October 25, and November 17, 2021. Input received from these 15 outreach efforts is in Appendix B.

- 16 On October 22, 2021, notices were sent to local, state, and federal agencies describing the proposed
- actions and seeking comments relative to the interests of each agency. (The letters emailed to each
 agency were misdated with October 22, 2020 and requested comments by December 3, 2022. This end
- 19 date should have been December 3, 2021. Subsequently a notification was sent to Tribal, Federal and

- 1 State agencies correcting the end date for comments and requesting input by March 1, 2022.) The State
- 2 Emergency Management Agency (SEMA) responded on November 8, 2021, that permits would be
- 3 required if the project impacts floodplain or regulatory floodway. The Missouri State Historic
- 4 Preservation Office (SHPO) responded on November 15, 2021, acknowledging receipt of the agency
- 5 coordination letter. Notices were also sent to federally recognized tribes on October 28, 2021. On
- 6 October 28, 2021, the Miami Tribe of Oklahoma responded that they had no objection to the project
- 7 assuming that it did not impact Graham Cave, the Loutre Valley Rock Shelter, the Mineola Hill Rock
- 8 Shelter or other historically or culturally significant sites. Further, the Miami Tribe accepted the
- 9 invitation to serve as a consulting party on the proposed project. Comment and coordination letters
- 10 from the SEMA, SHPO, Missouri Federal Assistance Clearinghouse, and the Miami Tribe of Oklahoma are
- 11 provided in **Appendix B**. As of the date of this submittal, no other comments from agencies or tribes
- 12 have been received.
- 13 MoDOT established a website for this project, <u>https://www.modot.org/KingdomCityInterchange</u>.
- 14 Through this website, project information was disseminated, and public comment was solicited. In
- addition, an online public meeting was conducted via the website and public comment was sought from
- 16 February 15 to March 15, 2022. A total of 110 comments were received. Below is a breakdown of the
- 17 comments by general category. Note that the percentages total more than 100 since many commentors
- 18 had multiple comments in their response.

19	٠	In favor of the project:	58%
20	•	Not in favor:	15%
21	•	Does not like the DDI:	33%
22	٠	Wants flyover ramps/other interchange configuration:	14%
23	٠	Other comments:	26%
24	٠	Concern about impacts:	3%

- Some of the issues in "Other Comments" included improvements at Janice and/or Dunn, extending theentrance and exit ramps, the railroad bridge and other questions.
- 27 All of the comments received are shown in **Appendix B.**

28 Resource Impact Evaluation

- 29 The following matrix presents an analysis of resources evaluated in the 2005 Second Tier EA and
- 30 describes changes to resources and findings regarding the potential impact to each resource. The matrix
- 31 below identifies resource impacts within the US 54 and I-70 segment of SIU 6, in association with Project
- 32 J5P3417, separately from resource impacts within the remaining SIU 6 corridor and includes a
- 33 determination of whether the impact has changed or remained the same from the 2005 EA. Following
- 34 this matrix is a summary table of the impact evaluation findings (Table 2). A map identifying
- environmental resources within the US 54 and I-70 Project J5P3417, is included in **Appendix C**.
- 36

Yes 🖂 No 🗌

Yes 🛛 No 🗆

Yes 🗌 No 🖂

¹ Environmental Re-Evaluation Matrix for Interstate 70, SIU 6

² Corridor, Second Tier Environmental Assessment

Socioeconomics

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

The study area in the Kingdom City area has experienced some additional development since the 2005 EA, where two additional hotels, a small office building, and a storage unit facility have since been constructed. It is expected that there would be a limited short-term economic decline during construction since the interchange would be reconstructed at its existing location. However, economic opportunities would improve after the interchange was reconstructed.

Remaining SIU 6 Corridor

Is there an impact to this resource?

Change since 2005 EA

More Impacts \Box No Change oxtimes Fewer Impacts \Box

The social setting in the vicinity has remained consistent since the 2005 EA. Based on the most recent American Community Survey (ACS) 5-year estimates provided by the U.S. Census Bureau (USCB), the populations in the study corridor have experienced only minor changes since the EA was published. Specifically, the population of Callaway County increased from 40,766 in 2000 to 44,743 in 2019, and Montgomery County decreased from 12,136 in 2000 to 11,487 in 2019. Correspondingly the study area outside Kingdom City has experienced very minor additional development. Based on the lack of significant changes in the affected environment, impacts to socioeconomics are expected to remain the same as those evaluated in the 2005 EA.

Land Use

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

According to review of current and historic aerial imagery, a small number of new commercial properties have been developed in the vicinity of the Kingdom City interchange since the publication of the 2005 EA, including two hotels, a small office building, and a storage unit facility. However, this area was identified as developed in the 2005 EA and these activities do not constitute a change in land use. As reported in the 2005 EA, Callaway County and Kingdom City do not have formal zoning regulations or land use plans in place. Improvements to the US 54 and I-70 interchange, would further promote commercial land use in the area and could increase the potential for future conversion of agricultural or undeveloped land to commercial or industrial uses in the vicinity of the interchange. However, the US 54 and I-70 interchange improvements would have no negative impact on community land use plans and policies.

Remaining SIU 6 Corridor

Is there an impact to this resource?

Change since 2005 EA

More Impacts \Box No Change \boxtimes Fewer Impacts \Box

Development along the remaining corridor has been minimal as much of the surrounding area remains agricultural or undeveloped.

Displacements

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

Yes 🗌 No 🖂

Yes 🗌 No 🖂

The improvements at the US 54 and I-70 interchange would be constructed almost entirely within existing rightof-way. Approximately 1.28 acres would need to be acquired to construct the interchange improvements. No business or residential displacements would occur. Of the 1.28 acres, 0.42 acres would be required as part of the interchange reconstruction; 0.86 acres would be needed from three parcels for the Janice Avenue improvements. The individual parcel acquisitions are estimated to be 0.79 acres on the west side of US 54 and 0.01 and 0.06 acres east of US 54.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \Box Fewer Impacts \boxtimes

Yes 🖂 No 🗌

The 2005 EA identified 16 residential dwellings and eight businesses that would be displaced along the entire SIU 6 corridor. Of these displacements, one residential dwelling and one business are located within the Mineola Hill segment and are no longer being displaced, leaving 15 residential buildings and seven 7 businesses identified for displacement within the remaining SIU 6 corridor according to the 2020 Re-evaluation for Mineola Hill. However, since the publication of the 2005 EA, there have been structures that were identified as displacements that no longer exist, as well as new construction in potentially impacted areas. The following changes were noted based on a review of current aerial imagery:

Disposition of displacements identified in the 2005 EA:

- Residential parcel at County Road 149 and Old US 40, north of I-70 structures have been removed.
- Residential parcel east of County Road 145, north of I-70 all four structures on the parcel were removed by 2017, but one new structure was added in 2018.
- Residential parcel, east of US 54 near County Road 220, south of Kingdom City intersection structures have been removed.
- Residential; triangular parcel east of County Road 159, south of I-70 structures have been removed.
- Residential; southwest quadrant at Hwy A intersection, south of I-70 and north of Hwy Z structures have been removed with exception of one remaining barn.

New construction with potential for displacement:

- Residential displacement; southeast quadrant of Jade Road and County Road 159, south of I-70 proposed road passes through a residence (Note: not new construction but was not marked as displacement in the 2005 EA, although it appears unavoidable with the proposed alignment).
- New structure south of Route N and Micah Road intersection.
- Residential displacement: new structure (barn or shed) on residential parcel near Powell Road/Boonslick intersection, south of I-70.

During the design phase, additional analysis would be completed to determine the exact number of parcels that would be impacted and the current use and occupancy of each structure to be removed. Based upon a desktop review, there are approximately the same number of previously identified displacements that have been removed from the impacted areas as there have been properties newly developed within potentially impacted areas. Therefore, the proposed I-70 improvements would result in roughly the same number of displacements as evaluated in the 2005 EA.

Environmental Justice

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

Yes 🗌 No 🖂

EO 12898 mandates some federal-executive agencies to consider environmental justice as part of the NEPA analysis by identifying and addressing disproportionately high and adverse human health or environmental effects on minority and low-income populations.

Kingdom City falls within Callaway County and one census tract covers the entire study area. Utilizing 2019 5-Year American Community Survey (ACS) data, Callaway County has a minority population of eight percent while in the entire census tract the minority population is 4.5 percent. The minority population in the study area is less

than 50 percent of the total population and doesn't significantly exceed the minority population in the county or state (17.8 percent). The low-income population of Callaway County and the census tract are nearly identical at 10.6 and 10.4 percent respectively. Similar to minority populations, this portion of the population does not exceed 50 percent of the total population or significantly exceed the low-income populations of Callaway County or the state (13.7 percent). Based on this data and a review of the communities adjacent to the study area, no readily identifiable groups of minority or low-income persons are located in the vicinity of the US 54 and I-70 Interchange. As in previous NEPA documents, the analysis did not identify any environmental justice populations in the study area that would experience disproportionately high and adverse effects resulting from project activities.

Remaining SIU 6 Corridor

Is there an impact to this resource?

Change since 2005 EA

Yes □ No ⊠ More Impacts □ No Change ⊠ Fewer Impacts □

The SIU 6 corridor spans five census block groups and the counties of Callaway and Montgomery. The minority populations in the block groups along the corridor range from 0 to 8.4 percent of the total population. None exceed 50 percent of the total population or significantly exceed the minority populations of the counties (9.8 percent in Callaway and 5.6 percent in Montgomery) or state (20.2 percent).

Low-income populations in the block groups along the corridor range from 7.0 to 25.0 percent of the total population. None of the block groups contain low-income populations that exceed 50 percent of the total population or significantly exceed (i.e., greater than or equal to 20 percent) the low-income populations of the counties (12.3 percent in Callaway and 16.1 percent in Montgomery) or state (14.6 percent). Based on this data and a review of the communities adjacent to the project corridor, no readily identifiable groups of minority or low-income persons are located in the vicinity of the SIU 6 corridor. Therefore, as in the 2005 EA, the analysis did not identify any environmental justice populations in the SIU 6 corridor that would experience disproportionately high and adverse effects resulting from project activities.

Soils and Geology

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

Construction of the proposed interchange and Janice Avenue improvements would require the permanent clearing of vegetation along areas where additional roadway would be constructed. Thus, the soils present within the project area may become more erodible during the construction phase. However, areas temporarily cleared of vegetation would be introduced with site-appropriate seed upon completion of construction, lessening the erosion hazard and minimizing the impact. In addition, to minimize potential soil erosion during construction activities, MoDOT's Sediment and Erosion Control Program would be followed and measures described in the approved Pollution Prevention Plan, such as the utilization of berms, slope drains, ditch checks, sediment basins, silt fences, rapid seeding and mulching, and other erosion control devices or methods would be implemented as needed. Therefore, impacts to soils and geology would be minor.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \boxtimes Fewer Impacts \Box

As the majority of geologic change and changes in soil composition occur gradually over long periods of time, and no major natural disasters or human developments have occurred in the region that would have notable impacts to geology or soils, geologic conditions along the project corridor are not expected to have experienced notable changes since the 2005 EA. Since the proposed I-70 improvements are consistent with those proposed in the 2005 EA, with the exception of the Mineola Hill segment, impacts to soils and geology within the remaining corridor would be consistent with the 2005 determinations and the EA would remain applicable for this resource.

Yes 🛛 No 🗆

Yes 🛛 No 🗆

Surface Water Resources

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

Yes 🛛 No 🗆

Field work was conducted by a Hg Consult biologist in November 2021. Many of the same streams and other Waters of the US (WOUS) were found. The complete memo, *Interchange Improvements at the US 54 and 1-70 Interchange in Kingdom City: Waters of the U.S. Delineation* is included in **Appendix D**. A summary of findings are as follows:

- A total of eight streams were identified of which five are within the Preferred Alternative potential impact area.
- The five streams within the Preferred Alternative potential impact area are ephemeral and total 2,297 linear feet in length. A total of four wetlands were delineated of which three are within the Preferred Alternative potential impact area.
- Maximum total potential wetland impact: 0.12 acres.
- Stream and wetlands are shown on the map in Appendix C.

Efforts will be made to avoid and minimize wetland and stream impacts for the US 54 and I-70 interchange improvements. Estimated total impacts are below 0.5 acres, meeting the threshold of a Section 404 Nationwide Permit. Compensatory mitigation may be required for wetland impacts greater than 0.1 acre and stream impacts greater than 0.03 acre. If stream mitigation is required, MoDOT will purchase credits from an in-lieu fee provider. If wetland mitigation is required, MoDOT will purchase credits from an in-lieu fee provider, deduct credits from a MoDOT mitigation bank outside the service area (at a potentially higher mitigation ratio), or purchase credits from a non-MoDOT mitigation bank in the service area.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \Box Fewer Impacts \boxtimes

Based on a desktop review and "windshield" survey of previously identified water features along the corridor in the fall of 2019, most features (streams, wetlands, and ponds) appeared to be in relatively the same condition as noted in the 2004 WOUS delineation for the 2005 EA. However, four streams and three wetlands were identified that were not identified in 2004.

In 2005, total estimated stream impacts for the overall SIU 6 corridor were 27,069.74 linear feet/3.32 acres. Based on the review conducted for the 2020 re-evaluation, current estimated stream impacts for the remaining SIU 6 corridor were 23,854.1 linear feet/3.015 acres.

As identified in the 2005 EA, implementation of the preferred alternative would impact 3.32 acres of streams and 7.65 acres of wetlands throughout the SIU 6 corridor. The 2020 Mineola Hill re-evaluation identified 7.95 acres of permanent wetland impact, 0.44 acres in the Mineola Hill segment and 7.51 acres for the remaining SIU 6 corridor. In terms of overall impact, combined stream and wetland impact slightly decreased from 10.97 acres determined during the 2005 EA to 10.96 acres determined during the re-evaluation, or a total stream and wetland impact decrease of 0.04 acres.

Groundwater

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

Yes 🗌 No 🖂

Yes 🛛 No 🗆

The project will occur mainly within the existing right of way and involve minimal excavation. Construction activities are not expected to impact groundwater in this area. A search of the Missouri Department of Natural Resources' (MDNR) Wellhead Information Management System database shows 30 total wells near the US 54 and I-70 interchange, sorted by location and well type, they are shown in the table below.

	Abandoned Soil Borings	Monitoring Wells	Abandoned Monitoring Wells	Abandoned Domestic Wells
North of I-70				
East of US 54 at Dunn Dr	1	8		
East of US 54 at Old US 40				1
South of I-70				
East of US 54, North of Janice Ave		1		
East of US 54, South of Janice Ave	3	4	3	
West of US 54, South of Janice Ave		5	4	
Total	4	18	7	1

One abandoned well (since 2013) is located east of US 54, north of Janice Ave is located within the project footprint. Monitoring wells in the study area are monitoring for petroleum and related substances. None of the wells are anticipated to be impacted by the project and will be avoided if possible. If any of these wells cannot be avoided by the project, the wells would be appropriately closed and sealed to prevent any contamination to groundwater.

Remaining SIU 6 Corridor

Is there an impact to this resource?

Change since 2005 EA

Yes 🗌 No 🖂

More Impacts \Box $\;$ No Change $\boxtimes \;$ Fewer Impacts \Box

A database search for groundwater wells within one mile of the SIU 6 corridor for the 2005 EA identified 79 wellheads and 15 public water supply wells, with a concentration of wells located in the western part of SIU 6 near Kingdom City. A recent search of the MDNR's Wellhead Information Management System database identified 79 domestic water wells within one mile of the SIU 6 corridor. Although specific well locations were not identified in the 2005 EA, the recent research indicates that wells are primarily dispersed throughout the area on farms and residential properties which is consistent with resource findings in 2005. As no substantial land use changes have occurred that would affect groundwater since the 2005 EA, and the proposed I-70 improvements have not changed outside the Mineola Hill segment, impacts to groundwater within the SIU 6 corridor would remain consistent with the determinations of the 2005 EA.

Floodplains					
SIU 6 Corridor, Kingdom City Segment (Project J5P3417)					
Is there an impact to this resource?	Yes \Box	No 🛛			
A check of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRE Kingdom City (Panel number 29027C0200E) showed the only floodplain is associated with McKi is outside the potential impact area of the preferred alternative and thus no floodplains will be project.	M) online fo nney Creek impacted b	or . This iy the			
In accordance with 23 CFR 650.111, the project is not expected to increase the potential for los	s of life or				

property and would therefore not be considered a significant risk. The project does not result in a substantial adverse impact on natural and beneficial floodplain values. Since there will be temporary soil disturbance during construction activities, sediment and erosion control best management practices (BMPs) will be utilized during construction and disturbed areas will be seeded following construction. The proposed project would not create new access to undeveloped lands and would therefore not support incompatible floodplain development.

Remaining SIU 6 Corridor	
Is there an impact to this resource? Change since 2005 EA	Yes ⊠ No □ More Impacts □ No Change □ Fewer Impacts ⊠
The 2005 EA identified 100-year regulatory floodplains with following streams and creeks: Houf's Branch, McKinn Creek, and Whetstone Creek. The proposed improvement however, based on revised FEMA FIRMs, the acreage of fl that described in the 2005 EA. The FIRMs for the project of 29027C0250E, 29139C0225D, 29139C0250D, and 29139C 2012, were updated to reflect existing development, rem I-70 corridor from the 100-year floodplain. Thus, the acree remainder of the SIU 6 corridor would be less than the 20 would be no impacts to regulatory floodways in the Mine As MoDOT would obtain floodplain development permits construction within the 100-year floodplain, floodplain in conditions of the 2005 EA.	ithin the remaining SIU 6 study corridor associated with ey Creek, McCredie Branch, Maddox Branch, Auxvasse ts will still encroach upon each of these floodplains; loodplain impacted by the project would be less than corridor (panel numbers 29027C0200E, 29027C0225E, i0275D), effective May 18, 2009, and September 5, noving portions of the built-up area associated with the eage of 100-year floodplain impacted along the 0.1 acres noted in the 2005 EA. Additionally, there eola Hill segment which is consistent with the 2005 EA. 6 from SEMA prior to FHWA authorization for npacts would remain bounded by the findings and
Public	Lands
SIU 6 Corridor, Kingdom City Segment (Project J5P3417)	
Is there an impact to this resource?	Yes 🗆 No 🖂
Section 4(f) states that land from a publicly owned park, r a historic site can be used for a transportation project on possible measures have been taken to minimize harm. Th The FastLane Pup Park is located near the FastLane conve entrance to FastLane. Because the Pup Park is privately o park will not be impacted by the improvements at this int	recreation area, wildlife or waterfowl refuge, or land of ly if there is no feasible and prudent alternative and all here are no publicly owned parks in the project area. enience store at the intersection of Janice Ave and the wned, Section 4(f) does not apply. Furthermore, this tersection.
Remaining SIU 6 Corridor	
Is there an impact to this resource? Change since 2005 EA	Yes \Box No \boxtimes More Impacts \Box No Change \boxtimes Fewer Impacts \Box
Public lands, recreational facilities, and wildlife refuges, so study corridor in the 2005 EA include Graham Cave State Farm Lake, Prairie Fork Creek Conservation Area, and Lou potential to be impacted by the Mineola Hill climbing land existing right-of-way and thus the park would be avoided directly impacted by the proposed improvements and the	ubject to Section 4(f), that were identified along the Park, Whetstone Creek Conservation Area, McCredie itre Lick Access. Graham Cave State Park had the es however the improvements would occur within . As noted in the EA, none of these properties would be ere would be no use of Section 4(f) resources.
Based on a review of state and federal databases from M State Parks, and the Protected Areas database of the U.S. the SIU 6 corridor, approximately 1.4 miles south of the R is managed by MDC and provides primitive campsites and distance between this facility and the SIU 6 corridor, ther resource resulting from the proposed I-70 improvements corridor would remain consistent with the determination	issouri Department of Conservation (MDC), Missouri , Moore's Mill Access was identified in the vicinity of Route Z interchange. This facility, subject to Section 4(f), d access to Auxvasse Creek. However, given the re would be no direct or indirect impacts to this . Therefore, impacts to public lands along the SIU 6 as of the 2005 EA.
Prime Fa	irmland
SIU 6 Corridor, Kingdom City Segment (Project J5P3417)	

Is there an impact to this resource?

Yes \Box No \boxtimes

A minor amount of right-of-way (1.28 acres) classified as "land committed to other uses" is needed to construct the project.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \boxtimes Fewer Impacts \Box

Yes 🖂 No 🗌

Yes 🗌 No 🖂

Yes 🛛 No 🗆

Yes 🗌 No 🖂

Yes 🗌 No 🖂

Impacts to soils with prime farmland characteristics were quantified in the 2005 EA. Based on consultation with the Natural Resources Conservation Service (NRCS), conversion impact rating totals reported on the Farmland Conversion Impact Rating Form AD-1006 completed for each county along the corridor were determined as follows: 138 points for Callaway County and 142 points for Montgomery County. Both counties were below the 160 points needed to require additional avoidance and or/mitigation measures. The recommended preferred alternative would convert approximately 410 total acres of prime and unique farmland to highway right of way. As the proposed I-70 improvements have not changed from what was proposed in the 2005 EA, with the exception of the Mineola Hill climbing lane segment, and underlying soil types in the project corridor are not expected to have experienced notable changes since that time, impacts to prime farmland would remain consistent with the 2005 determinations and the EA would remain applicable for this resource.

Visual Quality

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

This project would replace an existing diamond interchange with a diverging diamond interchange. Once complete, the new interchange would not have any change in the visual characteristics of the area.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \boxtimes Fewer Impacts \Box

The Visual Assessment conducted for the 2005 EA notes that overall, the proposed I-70 improvements associated with the expansion of the interstate along the existing mainline path would have a minimal visual impact and would not significantly change the viewshed for viewers either from or of I-70 in the remaining segment. While construction would eliminate some woodlands and farmland, and there may be increased lighting impacts at night near intersections, the view from the majority of the corridor would remain relatively the same, with a slightly wider roadway in the viewshed. As the proposed I-70 improvements have not changed outside the Mineola Hill segment and there has been no notable development resulting in new visually sensitive receptors, the impacts to visual quality would remain consistent with the 2005 determinations and the findings from the EA would remain applicable for this resource.

Air Quality

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

According to the 2005 EA, the most likely occurrence for exceeding the National Ambient Air Quality Standards is at a controlled intersection which has the potential to create excessive traffic queues. Making improvements at the US 54 and I-70 interchange will reduce queues and congestion, improve traffic flow, operations and safety. The proposed improvements would not result in increased miles traveled; therefore, there would be no adverse impact to air quality.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \boxtimes Fewer Impacts \Box

For air quality impacts, the 2005 EA is still applicable. SIU 6 is contained within Callaway and Montgomery counties which fall into the Northern Missouri Intrastate Air Quality Control Region. Callaway and Montgomery counties are currently in attainment for all criteria pollutants (40 CFR 81.326) (https://www3.epa.gov/airquality/greenbook/ancl.html). The proposed alignment would not result in increased miles traveled; therefore, there would be no adverse impact to air quality. Noise SIU 6 Corridor, Kingdom City Segment (Project J5P3417) Is there an impact to this resource? Yes 🗌 No 🖂 There are no sensitive noise receptors located within, or adjacent to, the preferred alternative. The improvements at the interchange do not substantially alter the configuration that would impact noise sensitive receptors. In addition, improvements at Janice Avenue do not substantially alter the roadway to halve the distance to a frequent human use area. Therefore, no elements of this project would meet the criteria to designate it a Type I project. There are no noise impacts related to project J5P3417. **Remaining SIU 6 Corridor** Yes 🖂 No 🗌 Is there an impact to this resource? Change since 2005 EA More Impacts \Box No Change \boxtimes Fewer Impacts \Box A noise study was completed for the 2005 EA, analyzing noise impacts to selected receptors along the length of the SIU 6 corridor. That study and the analysis conducted for the Mineola Hill segment in 2020 found that a number of receptors along the remainder of the corridor would experience noise impacts (meeting or exceeding 66 dBA) under the 2030 Build conditions, primarily due to increasing amounts of traffic. As the average annual daily traffic (AADT) projections utilized in the noise study were considerably higher than current projections for 2040, noise impacts along the corridor would remain consistent with or less than those determined in the noise study. Therefore, the findings of the 2005 EA would remain valid for this resource. Noise mitigation measures were not considered for the proposed improvements in the 2005 EA, as they did not meet specific definitions for reasonableness. It was determined that noise walls would not be cost-effective or reasonable due to the sparse number of sensitive noise receptors close to the interstate. As the criteria for noise abatement reasonableness and feasibility have since changed, the consideration of noise mitigation would be re-evaluated if improvements within the remaining corridor are implemented in the future. **Threatened and Endangered Species** SIU 6 Corridor, Kingdom City Segment (Project J5P3417) Is there an impact to this resource? Yes 🛛 No 🗆 The section below on the remaining SIU 6 corridor lists threatened and endangered species identified in the project area. During field work conducted in November 2021, potential bat habitat was identified near the I-70 westbound exit ramp. The wooded area is located just north of the ramp and appears to have suitable roost trees for the Indiana Bat (Myotis sodalis) and Northern long-eared bat (Myotis septentrionalis). These species are listed as federal and state-listed endangered; and federal-listed threatened, respectively. These species as well as the Gray Bat (Myotis grisescens) (federal and state-listed endangered) and the Monarch Butterfly (Danaus plexippus) (candidate species) are listed on Information for Planning and Consultation (IPaC) (11/5/2022). An updated USFWS IPAC official species list was generated March 7, 2022 (Project Code 2022-0016475) and contains the following species: Gray, Indiana, northern long-eared bats; Monarch butterfly. Gray bats roost in caves or mines year-round and use water features and forested riparian corridors for foraging and travel. Indiana and northern long-eared bat hibernate in caves during winter and roost in forested habitat in summer where they use trees with suitable characteristics (cracks, crevices, peeling bark) for roosting. The listed bat species occasionally use bridges for roosting. The MDC Heritage Database (updated Feb 2022) and

MSS Cave Database (updated Feb 2022) show no records for bats or caves near the project area. This project will not impact caves The bridges present in the project area are not ideal for roosting because of the interstate traffic. This project may impact up to 0.87 acres of trees within 100 feet of the existing roadway. A habitat assessment has not been completed, but the area has been assumed to contain potentially suitable roost trees. Winter tree clearing dates (tree clearing only Nov 1- Mar 31) will be adhered to.

MoDOT, acting as the designated non-federal lead agency for T&E determination for FHWA, has determined that this project may affect, but is not likely to affect, Indiana and northern long-eared bats. MoDOT has determined that this project will not impact habitats suitable to gray bat; this project will have no effect on gray bat. The USFWS IPAC determination key was completed and submitted to USFWS on 05/18/22. The USFWS has not responded within their 14 days to provide comments. Therefore, concurrence with the FWS that this project may affect, but is not likely to affect, Indiana and Northern long-eared bats and will have no effect on gray bats was provided on June 2, 2022.

There are two Monarch butterfly populations in North America, east and west of the Rocky Mountains. These populations migrate to overwintering sites in Mexico and California. Milkweed is an obligate host plant for eggs and larvae, and adult butterflies requires a diversity of blooming nectar sources during breeding and migration. Per guidance received from USFWS on 1/5/2021, conferencing for monarchs is not required unless MoDOT is receiving funding from the USFWS. Since that is not the case with this project, MoDOT has not made an effects determination for this species.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \boxtimes Fewer Impacts \Box

Yes 🗌 No 🖂

The 2005 EA found no impacts to threatened or endangered species from the preferred alternative, but it recommended further consultation of the Missouri Department of Conservation Natural Heritage Database as projects are close to implementation, and avoidance of instream activities between March 15 and June 15 for reaches of Whetstone Creek.

For the 2020 Re-evaluation, project screening for threatened and endangered species for the SIU 6 corridor was conducted through IPaC (11/1/2019) and MDC (12/12/19). The US Fish and Wildlife Service (USFWS) and MDC identified the following federal species that could be potentially affected by the project, however critical habitat for each species was not identified in the project area.

Bald eagles

Bald eagles (*Haliaeetus leucocephalus*) nest near streams or water bodies in the project area. Nests are large and fairly easy to identify. While no longer listed as endangered, eagles continue to be protected by the federal government under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. No eagle nests were identified in the project area.

<u>Gray Bat</u>

Gray bats (*Myotis grisescens*, federal and state-listed endangered) occur in Callaway and Montgomery Counties and could occur within one mile of the project area, as they forage over streams, rivers, and reservoirs.

Indiana Bat and Northern long-eared Bat

Indiana bats (*Myotis sodalis*, federal and state-listed endangered) and Northern long-eared bats (*Myotis septentrionalis*, federal-listed threatened) hibernate during winter months in caves and mines. During the summer months, they roost and raise young under the bark of trees in riparian forests and upland forests near perennial streams.

The federally listed threatened and endangered species assessed in the 2005 EA consisted of the running buffalo clover (*Trifolium stoloniferum*) and Indiana bat (*Myotis sodalis*). Since that time, the endangered Gray bat

(*Myotis grisescens*) and the threatened Northern long-eared bat (*Myotis septentrionalis*) have been added to the USFWS federal listed species and the running buffalo clover has been removed for the project area.

The Natural Heritage records from MDC also identified several other state-listed endangered species and/or state-ranked (not state-listed endangered) and natural communities of conservation concern in the project area. These include the following:

- False mermaid (Floerka proserpinacoides)
- Yellow False Mallow (*Malvastrum angustum*)
- A Liverwort species (Marsupella sullivantii)
- Prairie Dandelion (*Nothocalais cuspidate*)
- Blacknose Shiner (Notropis heterolepis)
- Eastern Eulophus (Perideridia Americana)
- American Badger (Taxidea taxus)

As no construction or tree clearing will be conducted outside of the Kingdom City segment, no threatened or endangered species would be impacted in the remaining SIU 6 corridor. For future projects in the remaining SIU 6 corridor, surveys to identify federal- and state-listed protected species and/or their habitat would be required.

Hazardous Materials and Waste Management

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

Yes 🗌 No 🖂

The 2005 EA identified 14 sites in the US 54 and I-70 interchange area. An EDR report and MDNR's E-START interactive map was used to determine if there are potential hazardous materials sites within the study area at Kingdom City. A total of 12 potential hazardous materials sites occur in the study area and are summarized in the table below. The map in **Appendix C** shows the location of these sites.

Facility	Map ID	Address	Description	Potential Impact (Yes/No)	Potential Risk (Low, Medium, High)
		From the EDR Report			
Abandoned Site	E1/1*	5475 Hwy FF	LUST, Spills, UST	No	Low
UST Facility	E2/2*	Old Hwy 40E	UST	No	Low
Fastlane Crossroads	E3/4*	3154 US 54	FINDS, ECHO	No	Low
Kingdom City Repeator Station	E4/3*	5409-5599 Angel Dr/5584 Dunn St	FINDS, Brownfield	No	Low
Fastlane #51	E14/9*	3325 County Rd 211	LUST, UST, Spills	No	Low
Kingdom City Shell	E16		UIC	No	Low
Petrolube/Kingdom City Stopping Center	E17/8*	3296 Gold Road	LUST, UST, Spills, ERNS, ECHO, FINDS	No	Low
From MDNR E-Start Database					
Yesway #1135	5	3179 US 54	UST	No	Low

MM-1 Kingdom City Weigh Station F-1	6	I-70 & US 54	UST	No	Low
Fastlane #53	7	3259 County Rd 211	UST	No	Low
Westland Travel Center	10	3269 Gold Rd	UST	No	Low
University of Missouri McCredie Research Farm	11	County Rd 145	Long-term Stewardship for pesticide contamination	No	Low

*Found in both the MDNR E-Start Database and EDR report.

Project activities would be mostly limited to MoDOT's existing right of way with the exception of 1.28 acres, there likely would be no direct impact to any sites and low risk for potential surface or subsurface contamination. Based on the preferred alternative preliminary alignment, none of the properties listed above would be impacted by the project. Specifically, there would be 0.01 acre acquired from the site labeled E16 in the table above. This site has a UIC or Underground Injection Control and construction would be at the edge of the parcel, The other site is labeled as 10 in the table above. This site contains a UST and would have 0.06 acre needed from the edge of the parcel for construction of Janice and the entrance to this property. Efforts to avoid or minimize encountering the UIC and UST will be made. Regarding Site 10, DNR issued a No Further Action (NFA) letter in July 2013 based on a review of information and risk assessment from cleanup and remediation from a release of 30,000 gallons of diesel fuel. Efforts to avoid or minimize encountering the UIC and UST will be made. Kingdom City Stopping Center (Map ID E17/8 in the table above) is not anticipated to be impacted but is a location of a petroleum release. It was issued a NFA in July 2002 based on a review of analytical data and information submitted. No impacts to hazardous materials are expected and no remediation is warranted. However, there is a low likelihood of encountering unexpected hazardous materials, and therefore, if any are discovered (e.g., underground storage tanks, contaminated soils), construction would be stopped, and appropriate remediation would be implemented.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \boxtimes Fewer Impacts \Box

Yes 🗌 No 🖂

Yes 🗌 No 🖂

From the 2020 re-evaluation, MDNR's E-START interactive map was used to determine if there are potential hazardous materials sites within the SIU 6 corridor that were not previously identified in the 2005 EA. All records of hazardous substance investigation or cleanup sites and regulated storage tank facilities identified on the E-START map in the project vicinity were reviewed. All records either corresponded with previously identified hazardous materials sites (mapped in Appendix C of the 2004 Draft EA) or, upon further investigation, were found to be associated with properties considerably outside the project's proposed limits of disturbance. As no additional hazardous materials sites were identified along the corridor, the 2005 EA findings remain applicable for this resource.

Cultural and Historic Resources

SIU 6 Corridor, Kingdom City Segment (Project J5P3417)

Is there an impact to this resource?

MoDOT initiated Section 106 consultation with the State Historic Preservation Office (SHPO) on May 31, 2022 by sending the cultural resource survey titled *"Cultural Resources Survey: Callaway County, Route 54, MoDOT Job No. J5P3147"*. On June 15, 2022, the SHPO provided concurrence that project would result in "No Historic Properties Affected". A copy of SHPO's Section 106 concurrence letter is provided in Appendix E.

In conjunction with Section 106, notices regarding the project were sent to federally recognized tribes on October 28, 2021. On October 28, 2021, the Miami Tribe of Oklahoma responded that they had no objection to the project assuming that it did not impact Graham Cave, the Loutre Valley Rock Shelter, the Mineola Hill Rock

Shelter or other historically or culturally significant sites. Further, the Miami Tribe accepted the invitation to serve as a consulting party on the proposed project.

Remaining SIU 6 Corridor

Is there an impact to this resource? Change since 2005 EA

More Impacts \Box No Change \boxtimes Fewer Impacts \Box

Yes 🗌 No 🖂

Four potentially significant archaeological sites have been identified within the I-70 right of way in the Mineola Hill segment. Measures were taken to avoid and/or minimize the potential for impacts to archaeological resources 23MT1431, 23MT1432, 23MT1436, and 23MT1496. No ground disturbing activities were permitted in those site areas without either prior evaluative testing or measures to preserve the sites in place by placement of a protective covering comprised of geotextile and a layer of fill suitable to prevent rutting of the ground, and preservation of the archaeological data. On February 11, 2020, the Missouri State Historic Preservation Office (SHPO) concurred that with implementation of the stipulations. No historic properties will be adversely affected by the Mineola Hill project.

The Missouri SHPO Archaeology Viewer interactive map was reviewed to determine if any new cultural resource surveys and archaeological sites have been recorded since publication of the 2005 EA. No new archaeological sites were found. No new surveys were identified within the remaining SIU 6 corridor, and all other sites and surveys corresponded with previously identified sites and surveys as included in the 2005 EA. As no additional archaeological sites were identified along the corridor, the 2005 EA findings remain applicable for this resource.

Mitigation and Environmental Commitments

Decisions

The following provides a review of decisions made through the course of the First and Second Tier Studies.

12-18-2001 Interstate 70 Corridor, Kansas City to St. Louis, Missouri Final First Tier EIS and ROD – Within the first Tier of the EIS, FHWA approved the selection of the Widen Existing I-70 Strategy for the I-70 Corridor. The strategy would improve existing I-70 by adding lanes and reconstructing the existing roadway to enhance safety and performance, including improved access management. This strategy included provisions for future transportation improvements within the median in rural areas, and the ability to add capacity in the future. (Applicable to Project J5P3417)

05-26-2005 Interstate 70 SIU 6 Corridor Final Second Tier EA and FONSI - The second tier EA evaluated impacts to SIU 6, defined as an 850-foot band centered along existing I-70 from the U.S. 54 interchange with I-70 (mile post 147) near Kingdom City to Route 19 but not including the interchange near Montgomery City (mile post 174). The selected alternative included an additional lane in each direction, the replacement of all existing interchanges and overpasses, access management where appropriate, and the provision for continuous frontage roads on both sides of I-70 as deemed necessary. (Applicable to Project J5P3417)

08-14-2009 Interstate 70 Corridor, Kansas City to St. Louis, Missouri Supplemental EIS and ROD – Within the First Tier of the I-70 SEIS, the Truck-Only Lanes Strategy was determined to be the selected improvement strategy. The Truck-Only Lanes Strategy would construct two truck-only lanes and two or more general purpose lanes in each direction along existing I-70. Concrete barriers, buffer separations or grassed areas would separate the truck-only lanes and general-purpose lanes from each other, depending on the location along the corridor. The Truck-only Lanes Strategy was determined to be consistent with the decisions made in the 12-18-2001 ROD, as it would fit within the limits of the previously evaluated footprint, to the extent possible, utilizing the future transportation corridor identified in the Widen Existing 1-70 Strategy. The footprint for the truck-only lanes through Mineola Hill will remain entirely within the previously evaluated footprint identified in the original Improve I-70 Second Tier Studies. Interchange features of the Widen Existing I-70 Strategy at the majority of the interchanges along the corridor would be retained. (Not Applicable to Project J5P3417)

List of Commitments

As identified in the 12-18-01 ROD for the Tier 1 EIS and the 5-26-05 Final Second Tier FONSI for SIU 6, MoDOT agreed to the commitments and future actions during the design and construction phases of future improvements in the SIU 6 corridor. The agreed upon commitments and future actions are summarized below. In addition, applicability of the commitments as related to Project J5P3417 are identified. Changes or updates to these commitments are shown below each commitment where applicable.

Existing Commitments from the 2005 FONSI Common to all SIUs:

1. MoDOT will comply with the appropriate currently adopted design criteria and design standards. (**Applicable** to **Project J5P3417**)

2. MoDOT will incorporate suitable and reasonable Intelligent Transportation Systems elements into the Improve I-70 program. (Applicable to Project J5P3417)

3. MoDOT will consult with emergency responder agencies involved in traffic incident management on I-70 in future design and maintenance of traffic plan development as the Improve I-70 program progresses. (Applicable to Project J5P3417)

4. MoDOT will develop a maintenance of traffic plan for the construction phases. Through traffic will be maintained along I-70 and at access points to the interstate from crossroads. It is likely that some interchange ramps and crossroads will be closed, and temporary detours required. Construction schedules, road closures and detours will be coordinated with police forces and emergency services to reduce impact to response times of these agencies. (Applicable to Project J5P3417)

5. MoDOT will coordinate with project area businesses regarding access issues, via direct communication throughout the construction period. (Applicable to Project J5P3417)

6. MoDOT will coordinate with local public service and utility service providers during the final design phase of the project and during the construction period to minimize infrastructure relocation, modifications and connectivity requirements. (Applicable to Project J5P3417)

7. During right of way acquisition and relocations, MoDOT will assure that this will be accomplished in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. MoDOT is committed to examining ways to further minimize property impacts throughout the corridor, without compromising the safety of the proposed facility, during subsequent design phases. (Applicable to Project J5P3417)

8. During construction, MoDOT's standard specifications, MDNR Solid Waste Management Program, and MoDOT's Sediment and Erosion Control Program will all be followed. (Applicable to Project J5P3417)

9. Through MoDOT's approved Pollution Prevention Plan for the National Pollutant Discharge Elimination System, the control of water pollution will be accomplished. The plan specifies berms, slope drains, ditch checks, sediment basins, silt fences, rapid seeding and mulching and other erosion control devices or methods as needed. In addition, all construction and project activities will comply with all conditions of appropriate US Army Corps of Engineers (USACE) and MDNR permits and certifications. **(Applicable to Project J5P3417)**

 To minimize potential soil erosion during construction activities, MoDOT's Sediment and Erosion Control Program would be followed and measures described in the approved Pollution Prevention Plan, such as the utilization of berms, slope drains, ditch checks, sediment basins, silt fences, rapid seeding and mulching, and other erosion control devices or methods would be implemented as needed. (SIU 6 EA Re-evaluation)

10. MoDOT has special provisions for construction, which require that all contractors comply with all applicable local, state, and federal laws and regulations relating to noise levels permissible within and adjacent to the project construction site. Construction equipment is required to have mufflers installed in accordance with the equipment manufacturers' specifications. (Applicable to Project J5P3417)

11. MoDOT is committed to minimize lighting impacts. Efficient lighting and equipment will be installed, where appropriate, to optimize the use of light on the road surface while minimizing stray light intruding on adjacent properties. (Applicable to Project J5P3417)

12. To minimize impacts associated with construction, pollution control measures outlined in the MoDOT Standard Specifications for Highway Construction will be used. These measures pertain to air, noise and water pollution as well as traffic control and safety measures. **(Applicable to Project J5P3417)**

13. MoDOT will review the Natural Heritage Database and coordinate as necessary with the USFWS periodically during the project development process to identify any new locations of threatened and endangered bat activity and to ensure that any newly listed or proposed listed species are addressed. MoDOT will ensure that that there will be no tree clearing beyond 100 feet from the existing roadway north of I-70 and beyond 50 feet from the existing roadway south of I-70, and that clearing of suitable roost trees for Indiana and northern long-eared bats will occur during the inactive season (November 1-March 31). (Applicable to Project J5P3417)

14. Landscaping in the right of way will include native plant species and other enhancements in accordance with the statewide I-70 Corridor Enhancement Plan to the maximum extent possible. In accordance with MoDOT standards, new seed mixes, mulch and plant materials will be free of invasive weedy species to the extent possible. Where appropriate, MoDOT will partner with the MDC Grow Native program and implement the establishment of native vegetation along highway rights of way. **(Applicable to Project J5P3417)**

• MoDOT will follow standard policy of planting cool season grasses adjacent to right of way and plant warm season natives outside of the 30-foot clear zone since the current project improvements are not requiring new right of way. (SIU 6 EA Re-evaluation)

15. MoDOT has developed a Conceptual Wetland Mitigation Plan to compensate for wetland impacts, and appropriate mitigation will be adhered to in accordance with the plan. (Applicable to Project J5P3417)

• If mitigation is required, MoDOT will mitigate stream impacts with an in-lieu fee provider, and wetland impacts will be mitigated either at a MoDOT bank outside the service area at a higher ratio, or by purchase of credits from an outside bank in the service area. (SIU 6 EA Re-evaluation)

16. MoDOT will continue to coordinate with the SHPO and comply with the existing executed Programmatic Agreement that complies with the National Historic Preservation Act. **(Not applicable to Project J5P3417)**

• The Programmatic Agreement has expired. MoDOT will coordinate with SHPO related to the Section 106 process should design modifications and/or construction activities result in impacts to historic properties. (SIU 6 EA Re-evaluation)

17. When trees are removed, MoDOT will implement the tree replacement policy and plant two trees for every tree removed that has a diameter greater than six inches at breast height. **(Not applicable to Project J5P3417)**

MoDOT no longer has a tree replacement policy in place. Trees will only be removed from the area required for the expanded I-70, including the US54 and I-70 interchange (if applicable) and no open space for planting will be created. As a result, MoDOT will not implement replacement of removed trees. (SIU 6 EA Re-evaluation)

18. Where feasible, MoDOT's design process will minimize impacts to floodplains. (Not applicable to Project J5P3417)

19. Mitigation efforts to prevent the rise in flood elevation of each of the water bodies affected will be employed in an effort to obtain a No-Rise Certification permit from SEMA. (Not applicable to Project J5P3417)

20. MoDOT will continue to coordinate with the NRCS to determine appropriate mitigation measures for the loss of Conservation Reserve Program and Wetlands Reserve Program lands. (Not applicable to Project J5P3417)

21. Plans for suitable pedestrian, bicycle and wheelchair access across I-70 will be developed during the design of the interchanges. (Applicable to Project J5P3417)

Existing Commitments from the 2005 FONSI Commitments Specific to US 54 and I-70 Kingdome City SIU 6:

22. MoDOT will not construct the directional ramps at Kingdom City until such time that traffic volumes degrade the operation of the interchange to an unacceptable level and not until such time as a re-evaluation of the need has been completed. (Applicable to Project J5P3417)

23. Any impacted well will be avoided if possible and if not they will appropriately closed and sealed to prevent any contamination of groundwater. (Applicable to Project J5P3417)

Additional SIU 6 EA Re-evaluation Commitments:

24. If there are changes in the project scope, project limits, existing conditions, pertinent regulations or environmental commitments, MoDOT must re-evaluate potential impacts prior to implementation. Environmental commitments are not subject to change without prior written approval from FHWA.

25. Any previously unknown hazardous waste sites that are found during project construction will be handled in accordance with Federal and State Laws and Regulations. (Responsible Party – MoDOT/Contractor)

26. The Contractor shall not disturb the groundline around or any trees marked by Do Not Disturb on the plans during construction.

27. MoDOT will ensure that that there will be no tree clearing beyond 100 feet from the existing roadway north of I-70 and beyond 50 feet from the existing roadway south of I-70, and that clearing of suitable roost trees for Indiana and northern long-eared bats will occur during the inactive season (November 1-March 31).

28. The Contractor shall not disturb any wetlands or streams marked by Do Not Disturb on the plans during construction. The contractor shall use appropriate BMPs to prevent silt, sediment, and construction materials from entering streams and wetlands. If mitigation is required, MoDOT will mitigate stream impacts with an in-lieu fee provider, and wetland impacts will be mitigated either at a MoDOT mitigation bank outside the service area at a higher ratio, or through the purchase of credits from an outside mitigation bank in the service area.

29. The contractor shall follow EPG Section 127.22 for Offsite Borrow. MoDOT shall review and document the contractor's compliance with state and federal laws concerning offsite activities in the project file.

1

	Impact Findings					
		SIU 6 EA Re-evaluation				
		US 54 and I-70 Interchange				
Resource Evaluated	2005 Second Tier EA	(Project J5P3417)	Remaining SIU 6 Corridor*			
Socioeconomics	Minimal impacts include short-	No impact. No changes to	Findings remain consistent with			
	term economic declines during	intersections or exits, and	2005 EA. Social setting and			
	reconstruction of interchanges	therefore, no change in visibility or	development has remained largely			
	but improved opportunities	accessibility to existing businesses.	unchanged.			
	following completion.					
Land Use	No impact to community land use	No impact. Construction mainly	No impact. Findings remain			
	plans and policies.	limited to existing right of way	consistent with 2005 EA.			
		designated for transportation use				
		(1.28 ac needed for construction).				
Displacements	Sixteen residential dwellings and	No displacements. Construction	Approximately same number of			
	8 businesses would be displaced.	mainly limited to existing MoDOT	displacements. Findings remain			
		right of way (1.28 ac needed for	consistent with 2005 EA.			
		construction).				
Environmental Justice	No impact.	No impact.	No impact.			
Soils and Geology	No impact.	No impact.	No impact.			
Surface Waters	7.27 acres of wetlands and	0.12 acre of permanent wetland	Approximately 7.81 acres of			
	27,187.7 linear feet of streams	impact and 2,297 linear feet of	wetlands and 23,854.1 linear feet			
	(3.33 acres) impacted by the	ephemeral stream. No impact to	of streams (3.36 acres). Impacts are			
	preferred alternative.	permanent streams. Impacts would	less, but similar to 2005 EA.			
		require a Section 404/401				
		Nationwide Permit with mitigation				
		if wetland impacts cannot be				
		reduced to below 0.1 acre. Stream				
		mitigation is required for impacts				
		greater than 0.03 acre.				

Table 2. SIU 6 EA Re-evaluation Summary Impact TableComparison of Impacts from the 2005 Second Tier EA to the Current Project

	Impact Findings					
		SIU 6 EA Re-evaluation				
		US 54 and I-70 Interchange				
Resource Evaluated	2005 Second Tier EA	(Project J5P3417)	Remaining SIU 6 Corridor*			
Groundwater	No impacts.	No impacts.	No impacts. Findings remain			
		Wells that cannot be avoided by	consistent with 2005 EA.			
		the project would be sealed and				
		capped to prevent any				
		contamination of groundwater.				
Floodplains	38.9 acres of 100-year floodplain	No impact.	Fewer impacts to floodplains than			
	impacted by improvements.		2005 EA due to revised FEMA FIRM			
			mapping.			
Public Lands	No impact.	No impact.	No impact.			
Prime Farmland	Conversion of approximately 410	No impact. Minor right of way	Findings remain consistent with			
	acres of prime and unique	needed (1.28 ac); no parcels are	2005 EA. Soil types within the			
	farmland.	farmland.	project area have not experienced			
			notable change.			
Visual Quality	Minimal impacts associated with	No impact.	Findings remain consistent with			
	expansion of the interstate and		2005 EA. No notable development			
	elimination of some woodlands		resulting in new visually sensitive			
	and farmland.		receptors.			
Air Quality	No impact.	No impact.	No impact.			
Noise	Fourteen receptors would exceed	No impact. No noise sensitive	Findings remain consistent with			
	FHWA's Noise Abatement	receptors in this project and the	2005 EA.			
	Criteria. Mitigation measures	project is designated as a Type III				
	deemed not cost-effective or	project.				
	reasonable.					
Threatened and	No impacts from the preferred	Field surveys for bat habitat were	No impact.			
Endangered Species	alternative but recommended	conducted in November 2021.	Additional surveys and consultation			
	further consultation of the NHD	Field surveys concluded a narrow	with USFWS would be conducted			
	and avoidance of instream	strip of suitable habitat for listed	for future projects.			
	activities between March 15 and	Indiana, and northern long-eared				
	June 15 for reaches of Whetstone	bat species may be cleared during				
	Creek.	the inactive season. Effects on the				

	Impact Findings			
		SIU 6 EA Re-evaluation		
		US 54 and I-70 Interchange		
Resource Evaluated	2005 Second Tier EA	(Project J5P3417)	Remaining SIU 6 Corridor*	
		Indiana bat and Northern long-		
		eared bat were determined to be		
		"may affect, but not likely		
		adversely affect" under the FHWA		
		Programmatic Agreement. The		
		impact determination for Gray bats		
		was "no affect".		
Hazardous Materials	12 hazardous materials sites	A total of 12 sites are located	Findings remain consistent with	
and Waste	identified with low potential for	within the project area. Two sites	2005 EA. No new sites identified via	
Management	impact.	have small amounts of ROW (0.01	review of MDNR's E-START map.	
		and 0.06 acre) from the edge of the		
		parcels No impact to these or any		
		of the sites is anticipated.		
Cultural and Historic	Archaeological sites impacted by	MoDOT initiated Section 106	No impact.	
Resources	the preferred alternative: eight	consultation with the State Historic	No additional archaeological sites	
	sites were recommended for	Preservation Office (SHPO) on May	were identified along the corridor	
	avoidance; 11 sites were	31, 2022 by sending the cultural	and the 2005 EA findings remain	
	determined to have a potential	resource survey titled "Cultural	applicable.	
	for intact subsurface deposits.	Resources Survey: Callaway		
		County, Route 54, MoDOT Job No.		
	Historic Resources were avoided	J5P3147". On June 15, 2022, the		
	by the preferred alternative.	SHPO provided concurrence that		
		project would result in "No Historic		
	Recommendations were made to	Properties Affected". A copy of		
	avoid impacts to Graham Rock,	SHPO's Section 106 concurrence		
	although it was determined to be	letter is provided in Appendix E.		
	not eligible for the National			
	Register of Historic Places (NRHP)			
	by MoDOT and FHWA; SHPO			

	Impact Findings			
		SIU 6 EA Re-evaluation		
		US 54 and I-70 Interchange		
Resource Evaluated	2005 Second Tier EA	(Project J5P3417)	Remaining SIU 6 Corridor*	
	concurred with the			
	recommendation.			

*Analysis in the remaining SIU 6 corridor considers the preferred alternative in the 2005 SIU 6 EA which consists of an approximately 850-footwide corridor.

Re-evaluation Conclusion

Most of the impacts to socioeconomic and environmental resources resulting from the proposed project would remain the same as the impacts identified in the 2005 Second Tier EA. Although the roadway alignment has generally not changed, the US 54 and I-70 interchange project would occur mainly within the existing right of way, a smaller footprint than was recommended for the preferred alternative in the 2005 EA. The proposed project would result in wetland impacts; however, these impacts are consistent with impact findings in this section of SIU 6 which were evaluated in the 2005 EA.

This re-evaluation document demonstrates that the 2005 Final I-70 Second Tier EA and FONSI for SIU 6 remain valid. The proposed project continues to meet the purpose and need identified in the 2005 EA. Therefore, a supplemental study of the 2005 EA is not necessary for the current project.

US 54 and I-70 Interchange Project Callaway County, Missouri MoDOT Project J5P3417

Submitted Pursuant to 42 U.S.C. 4332(2)(c), 49 U.S.C. 303 By the U.S. Department of Transportation Federal Highway Administration and the Missouri Department of Transportation.

Date of Approval

For FHWA

Title

Appendix A

2005 Selected Alternative












Appendix B Agency and Public Coordination Letters



Project Communications & Public Involvement

Interstate 70/U.S. Route 54 Interchange at Kingdom City





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Overall Approach Public Safety Survey Stakeholder Advisory Committee Online Public Meeting

> Appendix Public Safety Survey Results Promotion Materials Presentation Materials Public Comments





Overall Approach





Overall Public Involvement Approach

The project approach to communications, and stakeholder/public involvement activities for the Missouri Department of Transportation (MoDOT)'s Interstate 70/U.S. 54 Interchange Study in Callaway County was to engage area stakeholders and the community in the study process to gather feedback and input that will help ensure the study recommendations reflect the needs of the users of the system. The study goal was to develop a concept study and identification of interchange improvements that would enhance safety, manage congestion, and maintain accessibility to the nearby area businesses.

The outreach activities were completed in partnership with the consultant team and MoDOT, and were completed in three key phases:

- 1. Discovery & Data Collection
- 2. Draft Alternatives & Response
- 3. Preferred Alternative & Public Update

Outreach Tools

Upon project kickoff, the team worked together with MoDOT to determine the most appropriate strategy for establishing and distributing the following.

- » Project webpage A study webpage was established on the existing MoDOT website to explain the goals of the study and anticipated timeline.
- » Comment form for stakeholders and the public to provide comments on the project webpage.
- » Email list A list of stakeholders and interested parties was compiled and maintained for project updates, as available.
- » Press release Press releases were used at key milestones of the project to encourage public comments and provide updates on the study recommendations.
- » Public notice A 30-day public notice was posted in the Fulton Sun to advertise the start of a public comment period.
- » Social media posts Social media posts were provided to MoDOT for posting on their Central District social channels.
- » Direct-mail Stakeholder invitation letters and right of entry letters were distributed to property owners and nearby businesses.





Public Safety Survey





Public Safety Survey

A public safety survey was launched on September 22, 2021, and open for public response until October 15, 2021. The survey was promoted on the project webpage, email, and stakeholders were asked to share. The City of Kingdom City also promoted the survey with their elected officials and social media channels.

Around 60% of participants from the survey travel through the I-70/ US 54 interchange on either a daily or weekly basis. Another 25% use the interchange on a monthly basis. Nearly 68% of surveyors were local residents, 7.5% were business owners in Callaway County (not directly located near this interchange), and 5.5% were owners/ operators of a business near the I-70/US 54 interchange. The other 19% would describe themselves in other categories.

Surveyors selected their top safety concerns regarding the I-70/ US 54 interchange and were encouraged to choose all options they felt were true. The top three concerns reported were interactions between heavy trucks and passenger vehicles (196 responses), traffic backing up at intersections north and/or south of the interchange (185 responses), and difficulty merging onto I-70 from US 54 ramps (174 responses).

Responders were shown a map of specific points within the intersection where they may have specific safety concerns. They were encouraged to select locations of key concerns. The top locations reported included the intersections on US 54 at 1-70 ramps (181 responses), the entrance ramps from US 54 towards I-70, and the intersection on US 54 at Janice/Gold Rd.

Participants were ask what they believed may contribute to crashes or potential crashes on the I-70/US 54 interchange. They were encouraged to select all options that applied. Their responses included high traffic volumes (288 responses), interaction between trucks and passenger vehicles (182 responses), and running red lights (160 responses).

The survey input was used by the technical team to consider intersection improvements that addressed top concerns.



SEPTEMBER 22– OCTOBER 15, 2021







TOP CONCERNS

1 Interactions between heavy trucks and passenger vehicles

- 2 Traffic backing up at intersections north and/or south of the interchange
- 3 Difficulty merging onto I-70 from US 54 ramps





Stakeholder Advisory Group Meetings

- Meeting 1
- Subgroup Meeting 1
 - Meeting 2





Stakeholder Advisory Committee

A project Stakeholder Advisory Committee (SAC) was established to serve as the project's local sounding board. Letters were distributed to nearby business/properties and follow up calls were made to invite attendees to participate. Some stakeholders preferred to be kept informed via email as the study progressed.

The SAC was invited to attend two SAC meetings. A subgroup meeting was also held and focused on select intersection access and one-on-one discussions to explore specific property access and impacts. A list of stakeholders invited to participate in the SAC follows.

PARTICIPATION	BUSINESS	REPRESENTATIVE
SAC participant	Callaway Carriers Inc.	John Lummis
SAC participant	Callaway County Ambulance District	Charles (Charlie) Anderson, Director
SAC participant	Callaway County Ambulance District	Linda Ellis, Assistant Director
SAC participant	Callaway County Commission	Randy Kleindienst, East District
SAC participant	Callaway County Commission	Roger Fischer
SAC participant	Callaway County Engineer	Paul Winkelmann
SAC participant	Callaway County Sewer District	Kent Wood
SAC participant	FedEx Freight	Don Logan, Advisor-Safety Project Management
SAC participant	FedEx Freight	Brent Sims, Local driver and resident
SAC participant	Kingdom City	Larry Doyle, City Administrator
SAC participant	Kingdom City	Curt Warfield, City Administrator
SAC participant	Kingdom City	Linda Diluvio, Board of Trustees
SAC participant	Magic Wash	Adam Stanberry, owner
SAC participant	McDonald's	Mark Mehle, owner
SAC participant	Missouri State Highway Patrol	Sgt Jerry Arnold, Zone Sergeant Callaway County
SAC participant	Missouri State Highway Patrol	Corporal Cody Frame
SAC participant	Missouri State Highway Patrol	Trooper McKinney
SAC participant	Missouri State Highway Patrol	Justin Turner
SAC participant	Motel 6 and Amerihost Inn & Suites	Sam Waheed, owner
SAC participant	North Callaway School District	Doug Kee, Transportation Director/Safety Coord.
SAC participant	Opies Transport Inc.	Brandon Opie, VP
SAC participant	Ozarkland	Kent Reed, General Manager
SAC participant	Warrenton Oil Company and	Jim Baker, owner
	Gasper's	Mary Banmiller, Direct or of Retail & Operations
SAC participant	West Land Travel Center / Phillips 66	George Eble, owner





PARTICIPATION	BUSINESS	REPRESENTATIVE
Invited	Days Inn	Jack
Invited	Callaway County Commission	Gary Jungermann
Invited	Missouri State Highway Patrol	Sgt Ryan Thompson, Zone Sergeant
Invited	Ozark Valley Railroad	Heath Haden, VP Operations
Invited	Taco Bell	Letter invitation was mailed; phone call follow up
Invited	XVIII Wheelers Truck Wash	Letter invitation was mailed; phone call follow up
Invited	Petro/Mobil	Letter invitation was mailed; phone call follow up
Invited	Carpet Values	Letter invitation was mailed; phone call follow up
Invited	Arby's	Letter invitation was mailed; phone call follow up
Invited	Burger King	Letter invitation was mailed; phone call follow up
Invited	Denny's	Letter invitation was mailed; phone call follow up
Invited	Frontier Motel	Letter invitation was mailed; phone call follow up
Invited	Iron Skillet	Letter invitation was mailed; phone call follow up
Invited	Dairy Queen	Letter invitation was mailed; phone call follow up
Invited	Holiday Inn	Letter invitation was mailed; phone call follow up
Invited	Quality Inn	Letter invitation was mailed; phone call follow up
Invited	Gully Transportation Inc	Letter invitation was mailed; phone call follow up
Invited	Yesway	Letter invitation was mailed; phone call follow up
Invited	Fast Lane	Letter invitation was mailed; phone call follow up
Invited	Phillips 66	Letter invitation was mailed; phone call follow up
Invited	Gulf	Letter invitation was mailed; phone call follow up

The Lake Area Chamber of Commerce and the Missouri Trucking Association were informed of the project public survey as well as the online public meeting information and were asked to share the link to participate with their networks.

Those who provided their email address via the public survey received an email notification of the online public meeting information and opportunity to comment.





Stakeholder Advisory Committee (SAC) Meeting #1

Date: September 21, 2021 Location: Online via Zoom Attendees: 28 total attendees (15 SAC members, 13 project team)

- » John Lummis, Callaway Carriers
- » Randy Kleindienst, East District Commissioner
- » Charlie Anderson, County Ambulance
- » Brent Sims, FedEx
- » Don Logan, FedEx
- » Larry Doyle, Kingdom City
- » Curt Warfield, Kingdom City
- » Adam Stanberry, Magic Wash
- » Corporal Frame, MO State Highway
- » Sergeant Arnold, MO State Highway
- » Sam Waheed, Motel 6 and Amerihost Inn & Suites
- » Doug Kee, North Callaway School District
- » Brandon Opie, Opies Transport
- » Kent Reed, Ozarkland
- » Jim Baker, Warrenton Oil Company

Project team included: MoDOT - Mia Peters, Matt Burcham, Cyrus Meller, Randall Glaser, Kirsten Munck, Randy Aulbur; Burns & McDonnell - Mike Herleth, Jessica Hutton, Meghan Jansen, Lisa Kay Hummel, Seth Gilliam, Tim Cope; HG Consult - Buddy Desai

The meeting started with SAC participants introducing themselves and sharing one or two items of most importance regarding the interchange. Common themes related to creating an overall safer interchange for I-70/US 54, increasing traffic flow efficiency for truck traffic, considerations for improvement for frequent backups and flow of traffic during lake season, and better flow on and off I-70.

Listed below are a highlight of local insights provided:

- » Farmers are moving their equipment in the spring/fall and it causes a slowdown in traffic. The machinery being moved is often wider than the typical highway lane.
- » Westbound on-ramp to I-70 does not provide enough room for heavy commercial vehicles to merge in heavy traffic.
- » Rain events cause a lot of accidents, especially with trucks.
- » MoDOT previously applied a high friction surface treatment on 54 north off the interchange for a curve section on a downgrade. The high friction surface was very helpful, but it is wearing down. This friction is important for school buses.
- » I-70 traffic is continuing to increase and speeding is also trending upward.
- » Better signing could help people choose their lane so they don't have to weave and cut people off to get to the exit they need.
- » Longer merging lane on I-70 east would be desirable.
- » Project team should look at the whole 54 corridor in this area and not just the interchange.
- » MoDOT should consider schedule construction impacts to have minimal impact to traffic and businesses and doesn't happen during the peak traffic/tourism months.





Stakeholder Subgroup Meeting #1

Date: October 25, 2021 Location: Online via Zoom Attendees: 16 total attendees (9 select* SAC members, 7 project team)

- » Randy Kleindienst, East District County Commissioner
- » Paul Winkelmann, Callaway County Engineer
- » Curt Warfield, Kingdom City
- » Larry Doyle, Kingdom City
- » Sam Waheed, Motel 6 and Amerihost Inn & Suites
- » Jim Baker, Warrenton Oil Company
- » Mary Banmiller, Warrenton Oil Company
- » Mark Mehle, McDonald's
- » George Eble, Westland Travel Center

*Stakeholders with access considerations at Dunn Road and Janice Avenue were invited.

Project team included: MoDOT - Mia Peters, Kirsten Munck; Burns & McDonnell - Mike Herleth, Lisa Kay Hummel, Seth Gilliam, Tim Cope; HG Consult - Buddy Desai

Topics presented: Goals for the study's potential interchange improvements, Dunn Rd Intersection Improvements (North), Janice Avenue Intersection Improvements (South). The SAC members invited were those with access considerations at Dunn Road and Janice Avenue.

Key Takeaways:

- » Keep access to businesses to support the local economy while improving traffic flow
- » Would like to see construction completed outside of the busy summer month period. Also peak lake traffic periods need to be considered on Friday evenings and all-day Sunday
- » Main objectives should be keeping business going and safety
- » Any improvements need to consider how to best accommodate semi-truck traffic
- » Backage road concept would be detrimental to certain businesses on the north side and opposed to the idea. Loss of direct access from Route 54 would be a business killer.
- » Backage road idea: west side would be best accommodated through the cul-de-sac. Kingdom City had planned any connection would occur in this manner and not impact platted development tracts. Also shared the city has plans for water improvements that would be shared with the team.
- » Explore the option to move the Dunn Road intersection north to create separation between the I-70 ramp terminals.
- » Redesign of Janice, Co Rd 211: Potential that land near existing signs could be used to limit parking impacts. The city had purchased/manages property near that space and had been planning infrastructure improvements such as lighting
- » Bypassing the existing intersection would be bad. People won't turn around and loop back.





Stakeholder Advisory Committee (SAC) Meeting #2

Date: November 17, 2021 Location: Online via Zoom Attendees: 16 attendees (18 SAC members, 16 project team)

- » Randy Kleindienst, Callaway County Commission
- » Roger Fischer, Callaway County Commission
- » Corporal Cody Frame, MO State Highway Patrol
- » Trooper McKinney, MO State Highway Patrol
- » Justin Turner, MO State Highway Patrol
- » Linda Ellis, Callaway County Ambulance District
- » Curt Warfield, Kingdom City
- » Larry Doyle, Kingdom City
- » Linda Diluvio, Kingdom City Board of Trustees
- » Kent Wood, Callaway County Sewer District
- » Doug Kee, North Callaway School District
- » Adam Stanberry, Magic Wash
- » John Lummis, Callaway Carriers
- » Brent Sims, FedEx
- » Sam Waheed, Motel 6 and Amerihost Inn & Suites
- » Mark Mehle, McDonald's
- » Jim Baker, Warrenton Oil Company
- » Mark Baker, Warrenton Oil Company

Project team included: MoDOT - Mia Peters, Matt Burcham, Cyrus Meller, Randall Glaser, Kirsten Munck, Randy Aulbur, Machelle Watkins, Adam Pulley; FHWA - Charles Pursley; Burns & McDonnell - Mike Herleth, Jessica Hutton, Meghan Jansen, Lisa Kay Hummel, Seth Gilliam, Tim Cope; HG Consult - Buddy Desai

SAC participants were provided a presentation of the proposed study alternatives being considered and asked to provide input and preference on a preferred alternative. The alternatives discussed are organized by study section below. Topics presented: Proposed project alternatives for the I-70 Ramps, North Intersection - Dunn Road, Interchange, and South Intersection - Janice Avenue

I-70 Ramps

» From a trucking perspective, both ramp options were noted as being spot on; also noted that congestion still needs to be addressed.





Stakeholder Advisory Committee (SAC) Meeting #2, continued

North Intersection - Dunn Road

- » Option 1 Relocation: preferred the left-in turn lane into business (vs. rerouting traffic for the U-turn). In general, would like to keep the left-in movement as close to their business (car wash) as possible; biggest fear is losing revenue.
- » Concerned with semi-trucks making the U-turn movement at Old US 40.
- » Might be a good option for heavy traffic to avoid the intersection.
- » Concerned with additional traffic flow on Old US 40 on the west side of 54.

Interchange

- » DDI was favored by some SAC members if turning left, no substantial delays; this in conjunction with the ramp extensions where you would then only have one light to potentially hold up traffic flow.
- » It was noted that most crashes at the interchange happen at ramp 6998 (EB off ramp heading WB 54).
- » It was asked what type of increase in traffic capacity could we expect with the DDI? There was an opinion that the area is missing out on potential traffic interested in stopping for fuel, etc. due to backup.

South Intersection - Janice Avenue

» Attendees needed more time to think about this concept.

The SAC meeting members were informed they would be contacted early in the month of December to offer one-on-one discussions. A follow up email was distributed to all those invited to the meeting with a PDF of the meeting presentation and link to draft concept plans.

Stakeholder Advisory Committee (SAC) One-on-Ones

Following the second and final SAC meeting, SAC members were emailed with an offer to schedule a oneon-one discussion with the project team to discuss the study's proposed alternatives prior to the preferred alternative being selected and announced for public comment.

Three meetings were held with interested participants on December 8, 9 and 10th of 2021. Participating organizations included Warrenton Oil, Magic Wash, and Ozarkland. In some cases, SAC members invited additional organization representatives to be a part of the discussion.





Online Public Meeting





Online Public Meeting

An online public meeting with self-guided review and comment was hosted from February 15 through March 15, 2022. The comment period was extended from March 1 (as originally promoted). The goal of online meeting was to present a MoDOT preferred alternative to the project stakeholders and broader community for review and input.

The online opportunity for review and comment was promoted on the project webpage with a press release distributed by MoDOT Central District, emails to project stakeholders and interested parties, social media posts, and hard copy fliers distributed by the City of Kingdom City. MoDOT also sent an email to subscribers in all of the counties along I-70 and Route 54. A display board with the study preferred alternative was printed and made available for review at Kingdom City Hall and the MoDOT Central District office.

MoDOT collected 110 comments through the project webpage; they are included in the appendix of this report.





Appendix

Public Safety Survey Results Promotion Materials Presentation Materials Public Comments





Public Safety Survey Results





I-70/US 54 Interchange at Kingdom City Safety Survey

Please take a moment to share your experience traveling the I-70/US 54 interchange at Kingdom City, Missouri. Your input will be incorporated into a safety study currently being performed by MoDOT Central District.

1. On average, how often do you travel through the I-70/US 54 interchange?

0	A
1 1	Daily
61	Daily
\sim	

O About once a month

O A few times a week O A few times a year or less

○ A few times a month

2. Overall, how would you rate the safety of this interchange compared to other interchanges you drive through?

O Much more safe

- Slightly more safe
- O About the same
- Slightly less safe
- O Much less safe

3. Select the top safety concerns you have at this specific interchange from the list below. (Select all that apply.)

Signing and pavement markings to help drivers choose the correct lane or position

Storage for turning vehicles (to prevent vehicles from blocking through traffic)

Traffic backing down the ramps to I-70

Difficulty merging onto I-70 from US 54 ramps

Traffic backing up at intersections north and/or south of the interchange

High speeds through the area

Poor sight lines for movements at the interchange or nearby intersections

Interactions between heavy trucks and passenger vehicles

Interactions between motor vehicles and pedestrians/cyclists

Wrong-way drivers

🗌 No real safety concerns at this interchange

Other (please specify)

4. Where do you experience the most safety concerns or issues? Refer to the image below, and select all that apply.

I-70 / US 54 Interchange Area



- **1a** Exit ramps from I-70 towards US 54
- **1b** Entrance ramps from US 54 towards I-70
- 2a Intersections on US 54 at I-70 ramps
- 2b Intersection on US 54 at Janice/Gold
- 3 US 54 south of Janice/Gold Rd
- 4 US 54 north of Dunn Rd
- 5 US 54 between Janice Rd and Dunn Rd
- 6 I-70 near interchange
- None of the above / No safety concerns
- 2c Intersection on US 54 at Dunn Rd

Rd

Please share any specific safety concerns you have at the locations you selected.

5. In your experience, which of the following do you feel most contribute to crashes or potential crashes at the I-70/US 54 interchange? (Select all that apply.)

Speeding	Icy/snowy weather or pavement
Running red lights	Darkness
Interaction between trucks and passenger vehicles	Drivers under the influence of drugs or alcohol
High traffic volumes (such as during summer weekend peaks)	Not sure / No real safety concerns
Wet weather/pavement	
Other (please specify)	

6. Which of the following best describes you? Your response will help us better understand your unique perspective.

Owner/operator of a business near the I-	○ Community organizer or advocate
Business owner in Callaway County (not directly located near this interchange)	 Local resident Commercial vehicle driver
City or County elected or appointed official	
◯ City or county staff	
Other (please specify)	

7. Provide an email address if you would like to receive updates about the I-70/US 54 interchange study at Kingdom City.

8. Please share any additional comments or safety concerns you have for the I-70/US 54 interchange at Kingdom City.



Q1 On average, how often do you travel through the I-70/US 54 interchange?



Q2 Overall, how would you rate the safety of this interchange compared to other interchanges you drive through?



Q3 Select the top safety concerns you have at this specific interchange from the list below. (Select all that apply.) Answered: 399 Skipped: 1



- Signing and pavement markings to help drivers choose the correct lane or position
- Storage for turning vehicles (to prevent vehicles from blocking through traffic)
- Traffic backing down the ramps to I-70
- Difficulty merging onto I-70 from US 54 ramps
- Traffic backing up at intersections north and/or south of the interchange
- High speeds through the area
- Poor sight lines for movements at the interchange or nearby intersections
- Interactions between heavy trucks and passenger vehicles
- Interactions between motor vehicles and pedestrians/cyclists
- Wrong-way drivers
- No real safety concerns at this interchange
- Other (please specify)

Q4 Where do you experience the most safety concerns or issues? Refer to the image below, and select all that apply. Answered: 397 Skipped: 3



- None of the above / No safety concerns
- 1a Exit ramps from I-70 towards US 54
- 1b Entrance ramps from US 54 towards I-70
- 2a Intersections on US 54 at I-70 ramps
- 2b Intersection on US 54 at Janice/Gold Rd
- 2c Intersection on US 54 at Dunn Rd
- 3 US 54 south of Janice/Gold Rd
- 4 US 54 north of Dunn Rd
- 5 US 54 between Janice Rd and Dunn Rd
- 6 I-70 near interchange

Q5 In your experience, which of the following do you feel most contribute to crashes or potential crashes at the I-70/US 54 interchange? (Select all that apply.)



- Speeding
- Running red lights
- Interaction between trucks and passenger vehicles
- High traffic volumes (such as during summer weekend peaks)
- Wet weather/pavement
- Icy/snowy weather or pavement
- Darkness
- Drivers under the influence of drugs or alcohol
- Not sure / No real safety concerns
- Other (please specify)

Q6 Which of the following best describes you? Your response will help us better understand your unique perspective.



- Owner/operator of a business near the I-70/US 54 interchange
- Business owner in Callaway County (not directly located near this interchange)
- City or County elected or appointed official
- City or county staff
- Community organizer or advocate
- Local resident
- Commercial vehicle driver
- Other (please specify)

Q8 Please share any additional comments or safety concerns you have for the I-70/ US 54 interchange at Kingdom City.

Answered: 67 Skipped: 333

#	RESPONSES	DATE
1	movement/mixing of trucks and cars happen too slowly for the distance between traffic lights and turns vs pass through lanes. This can cause back ups beyond the 70 off ramp from the East.	10/15/2021 10:05 AM
2	Thank you for looking at this! Hope you guys work on it.	10/15/2021 9:10 AM
3	THE PANHANDLERS SHOULD NOT BE ALLOWED AT THOSE INTERSECTIONS	10/14/2021 10:20 PM
4	I think that an interchange that didn't stop traffic, that allowed for the smooth flow of traffic would be safer and more beneficial.	10/13/2021 9:52 AM
5	just old roads falling apart need updating since so much traffic goes thru there.	10/12/2021 3:22 PM
6	with the increase of volume of traffic to and from the lake on weekends and holidays, this really is past due to update the interchange.	10/12/2021 12:19 PM
7	Keep it simple.	10/10/2021 9:26 PM
8	Rather than spend money on I70/US 54 intersection, more lives could be saved by adding third lane on I70 between Kingdom City and Columbia.	10/10/2021 10:14 AM
9	Definitely need street lightstoo dark on all exits	10/9/2021 9:13 PM
10	Truckers who might be tired or distracted	10/8/2021 8:23 PM
11	It would be great to streamline that intersection and at the same time make it safer. There is heavy traffic that flows through that area.	10/8/2021 12:02 PM
12	When the pavement is wet the lane markings on 54 on the bridges are hard to see.	10/8/2021 11:29 AM
13	Lower and ENFORCE speed limits.	10/8/2021 8:51 AM
14	Nope	10/8/2021 6:23 AM
15	Get rid of the dopers	10/7/2021 10:24 PM
16	Intersection at Janice and County Rd 211	10/7/2021 9:37 PM
17	None at this time.	10/7/2021 8:28 PM
18	Ramps are to short for trucks to get up to speed as I70 traffic is usually 75mphit bottlenecks high speed traffic at the bottom of the ramps as faster moving cars behind semis jerk out into the fast lane at the bottom of the ramp.	10/7/2021 4:02 PM
19	I wish they could keep the lines on the pavement painted more often. They don't seem to last very long, and in wet weather, after snow plows scrape in the winter, or after dark, I see out of town folks struggling to know where to turn because they can't see the road markings. The signs in the air are fine, but often the lane markings are worn off or unreadable.	10/7/2021 3:10 PM
20	Here are the main areas all together that are safety concerns. Entire area on both directions on 54 from before over passes needs redone on pavement and markings Second biggest is semis trying to merge all the way from one side to the other to get on 70. They don't look and just merge over at way slower speeds then a vehicle going 45 or faster coming Thursday when the lights turn green or are all green coming thru the over passes.	10/7/2021 2:58 PM
21	Panhandlers	10/7/2021 1:40 PM
22	I am very anxious to see this interchanged improved to provide a better flow of traffic and improve safety.	10/7/2021 10:45 AM

I-70/US 54 Interchange at Kingdom City Safety Survey

23	This intersection has enough traffic to have a cloverleaf and no traffic lights	10/6/2021 11:12 AM
24	too many stop lights in to short a distance which doesn't allow traffic to fully evacuate the area before being stopped. The intersection for the Truck stops can cause significant backup and delays.	10/6/2021 10:18 AM
25	Leave it alone. Spend the money fixing the roads that are beat to crap!	10/6/2021 7:53 AM
26	Please bypass Kingdom already. It's the only stoplights between STL and the Lake.	10/5/2021 9:05 PM
27	None	10/5/2021 5:16 PM
28	This should have been updated years ago when Andy Huey did all that work, can't they make these larger circles or something?	10/5/2021 1:03 PM
29	N/A	10/5/2021 9:25 AM
30	Get rid of ALL the pan handlers	10/2/2021 11:05 AM
31	No traffic flow. Traffic light timing is horrible. Nothing flows traffic sits at red light for a long period with no other opposing traffic. Most of your traffic problems are due to poor set up of traffic lights almost no set up. Its problematic everywhere in Missouri. Sit and wait no one moving any direction only state I drive through that no one is moving, even left lane lights are out of sequence. You really need to start there, you don't need to spend millions redesigning the intersect with 99% of your trouble is with traffic light discipline and programming.	10/2/2021 12:03 AM
32	Additional lanes for those turning left to merge onto 70.	10/1/2021 3:38 PM
33	Too many large trucks that block vision, speeding and inattentive drivers.	10/1/2021 3:32 PM
34	None	10/1/2021 2:53 PM
35	None	10/1/2021 12:24 PM
36	The top three issues I see daily is when people are merging from i-70 to south 54. People do not watch and merge anyway. The other spot is from 54 getting onto east i-70. I know there is limited space but I feel like that Lane while stopped needs to be widened. People so speed through this area and tend to run red lights.	10/1/2021 10:44 AM
37	Getting onto I-70 WB from hwy 54 seems to be incredibly dangerous, several accidents have been caused there due to the train bridge post that blocks the shoulder if you are unable to merge into the driving lane due to high traffic volume and driver's not allowing you to merge	10/1/2021 10:08 AM
38	I marked that I only come through there a few times a month. We recently moved to Fulton and out of the area. I traveled through there daily to work and for shopping for 25+ years. The amount of traffic is unreal and such a growing problem. Much success to those who are trying to correct the problems.	10/1/2021 9:50 AM
39	The panhandlers on the exit ramps. Not sure what can be done. Dangerous for them and for the drivers. I see them cut in and out of traffic.	10/1/2021 9:36 AM
40	flowing interchange needed east of Kingdom City for and keeping present interchange open for those vehicles needing the services that are presently there.	10/1/2021 9:15 AM
41	lake traffic is a concern. Heavy truck use will increase with any future development . If the port authority is built on the river at Jefferson City, expect truck traffic in Kingdom City to increase as well	10/1/2021 7:52 AM
42	traffic from i70 (columbia) going to petro. changing lanes	9/30/2021 9:49 PM
43	Pedestrians crossing road beggars putting signs in drivers view, very dark at night. Need fluorescent paint to highlight road better	9/30/2021 9:09 PM
44	A sensor on the south intersection that faces east onto the Denny's and Petro area still needs help identifying traffic in the left turn lane that turns south to Fulton/JC direction.	9/30/2021 8:49 PM
45	None	9/30/2021 8:36 PM
46	Na	9/30/2021 8:32 PM
47	Please whatever your process to improve this intersection will be . Take into consideration that many high school students drive through this area daily while getting to school and work. Many	9/30/2021 8:31 PM

,

I-70/US 54 Interchange at Kingdom City Safety Survey

of us in the area have issues with the many semis and them pulling out in front of us. I appreciate what they do! But is it Is difficult to swerve around them.

48	Truckers driving to fast, switching lanes without signaling and in general hogging the entire road	9/30/2021 8:23 PM
49	For me the worst part is so many intersections with hardly any markings as to where roads and turns are while watching out for semis	9/30/2021 8:19 PM
50	My children, attend NCHS and NCMS. I am driving this area 4 to 8 times a day. I have great concerns for their safety as they begin to drive in this congested area. The possibility of heavy, long lasting construction during their beginning driving years also seriously cincerns me.	9/30/2021 8:01 PM
51	The turn lane going onto I-70 East from 54 is a bad area because the lanes are not marked well and people get confused and done necessarily follow the lane lines.	9/30/2021 7:17 PM
52	Bridge intersection from east to west needs a proper lane expansion so there is adequate room for a turn lane onto 170 towards St. Louis.	9/30/2021 7:17 PM
53	Anything that can be done to modernize the roadway/interchange will help minimize safety concerns, stagnant traffic, and frustration. This area is a gateway for nationwide traffic, and it is imperative that traffic flow is improved not only for safety, but for tourism and commerce.	9/30/2021 5:49 PM
54	Love that we still have the interchange, it gives me qucik access to services going to and from work.	9/30/2021 4:47 PM
55	The only issue I have is getting off 54 onto 70 going west towards columbia. Semi's don't get over in time and the ramp and lane seem like they could be a little longer to giver more time to merge	9/30/2021 4:15 PM
56	None	9/30/2021 3:53 PM
57	N/a	9/30/2021 3:33 PM
58	The biggest concern is lake traffic exiting on Friday evening from St. Louis backed up on the interstate. I just try to avoid the area on Friday eve. and The panhandlers are an issue. You've done a good job with this exit.	9/30/2021 2:47 PM
59	There are no "Do Not Block Intersection signs" for vehicles facing east at the Gasper's entrance (Janice ave/211 intersection. It blocks trucks and smaller vehicle traffic trying to turn into Gaspers, which backs up the 2B intersection in all directions (North, East, West, and even some traffic headed South).	9/30/2021 1:34 PM
60	Painting the lines for the lanes and arrows would be a great start.	9/30/2021 12:03 PM
61	A lot of the problems are driver error and then also lake traffic. When it's not prime lake time the traffic and flow is not terrible in Kingdom City	9/30/2021 10:51 AM
62	RR Bridge over 70 that us abandoned needs to come down and ramps need to be longer to eliminate slower traffic at merge. Ban parking on the ramps. 6 truck stops in Kingdom City. Plenty of room to park. A diverging diamond interchange like at 70 and Stadium in Columbia would be ideal based on the excessive volume of traffic at the Kingdom City interchange.	9/30/2021 10:35 AM
63	people loitering at each intersection panhandling is not safe.	9/30/2021 10:17 AM
64	Thanks for the new stop light/ school entrance.	9/30/2021 9:48 AM
65	The train bridge on the outer road keeps truck traffic from being routed on that road during an accident on I-70. It would be nice to have it removed during this project since it hasn't been used for years and the line is dead on the other side of Auxvasse, MO. It would take millions of dollars to make it operational again. It also keeps economic development from happening along that corridor.	9/29/2021 4:53 PM
66	There are too many access and conflict points in a short distance which creates opportunity for crashes and mobility.	9/23/2021 2:53 PM
67	I feel the I-70 expansion should be address 1st or in exspansion with Kingdom City, then the Kingdom City interchange 2nd.	9/22/2021 4:34 PM



Promotional Materials





Review & comment on proposed improvements to the I-70/U.S. 54 Interchange in Kingdom City before March 1, 2022



Information about proposed improvements is available for review at the following locations:

- Online
 - <u>www.MoDOT.org/KingdomCityInterchange</u>
 - Use your phone camera to hover over the QR code then click to view the project website.
- Kingdom City Hall
 - 5584 Dunn Dr., Kingdom City, MO 65262
- MoDOT Central District Office
 - 1511 Missouri Blvd., Jefferson City, MO 65102



Comment via the online form or by calling 1-888-ASK-MODOT before March 1, 2022.





Re-Evaluation of Environmental Study Underway for Interstate 70/U.S. Route 54 Interchange in Kingdom City

As part of the planning stages for the improvements to the I-70/US 54 interchange at Kingdom City, the Missouri Department of Transportation is accepting public comments as part of a re-evaluation of an environmental assessment completed in 2005. The results of that study can be found at improvei70.org/environmental_6.htm.

Individuals or organizations wishing to learn more or comment can do so by visiting www.modot.org/KingdomCityInterchange or by calling 1-888-ASK MODOT.

Comments must be submitted by Monday, October 11, 2021.

INTERSTATE 70 / U.S. 54 INTERCHANGE IN KINGDOM CITY *Study Update & Preferred Alternative for Public Input*



COMMENT ON PROPOSED IMPROVEMENTS BEFORE MARCH 1





STUDY OVERVIEW MoDOT is studying a preferred alternative design for the I-70/U.S. 54 interchange to enhance safety and mobility through the corridor, provide access to nearby businesses and promote economic growth in Kingdom City.

TELL US WHAT YOU THINK

A welcome video and self-guided presentation about proposed improvements to the I-70/U.S. 54 interchange in Kingdom City are available for review online.

There are two ways to comment:

1) Online

Use your phone camera to hover over the QR code then click to view the project website or visit: MoDOT.org/KingdomCityInterchange

2) Call 1-888-ASK-MoDOT (1-888-275-6636)

Comments received before March 1, 2022 will be factored into the final results of the study, which is expected to be complete later this spring.

ANTICIPATED BENEFITS

Anticipated benefits of the proposed improvements include:



Improved traffic flow

Opportunities for **less disruption** to local businesses*

*Compared to other options considered. Construction timing and phasing details will be advanced in the next phase of the project. Central District

For more information, contact 1-888-ASK MODOT

February 4, 2022

Proposed I-70/U.S. 54 Interchange Improvements Available for Public Review and Comment Feb. 15-28

JEFFERSON CITY – The Missouri Department of Transportation is inviting the public to review and provide feedback on proposed changes to the Interstate 70 and U.S. Route 54 interchange in Kingdom City.

The recommended improvements are part of a traffic and safety study being completed by MoDOT and a consultant team. The goal of the study is to identify a preferred alternative design for the interchange that enhances safety and mobility through the corridor, provides access to nearby businesses and promotes economic growth in Kingdom City.

"After analyzing some of the preliminary results of the study and discussing those results with a local advisory group for this project, MoDOT is recommending that the interchange be updated to a Diverging Diamond Interchange," said Project Manager Mia Peters. "This would be similar to the Interstate 70 and Stadium Boulevard interchange in Columbia."

A welcome video and self-guided presentation going over the preferred alternatives are now available on the project web page (<u>www.modot.org/KingdomCityInterchange</u>), at Kingdom City Hall (5584 Dunn Dr, Kingdom City, MO 65262), and at MoDOT Central District Office (1511 Missouri Boulevard, Jefferson City, MO 65102).

The public is invited to make comments and ask questions about the recommended improvements. Those wanting to comment can do so via the online comment form on the project web page or by calling 1-888-ASK-MODOT. Those comments will be factored into the final results of the study, which is expected to be complete later this spring.

All comments must be received by Monday, February 28 to be considered.

This project is being considered for addition to the Draft 2023-2027 Statewide Transportation Improvement Program (STIP).

For more information and updates about this project or other transportation-related matters, please call 1-888-ASK-MoDOT (275-6636) or visit www.modot.org/central. Follow the MoDOT Central Missouri District on Instagram, Facebook and Twitter for project updates.

Links to related information: MoDOT Central District

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To view MoDOT's privacy policy view https://www.modot.org/privacy
Online Public Meeting Email

From: Hummel, Lisa K Sent: Friday, March 4, 2022 9:16 AM Ce: Mia Peters - Missouri Department of Transportation (maria.peters@modot.mo.gov) <Maria.Peters@modot.mo.gov> Subject: RE: I-70/U.S. 54 Interchange Study Update & Public Comment Period - Extended

Good morning, The comment period for the I-70/U.S. 54 Interchange Study comment period has been extended to March 15, 2022.

 From: Hummel, Lisa K

 Sent: Tuesday, February 15, 2022 11:25 AM

 Cc: Mia Peters - Missouri Department of Transportation (maria.peters@modot.mo.gov) < Maria.Peters@modot.mo.gov)</td>

 Subject: I-70/U.S. 54 Interchange Study Update & Public Comment Period

Hello,

MoDOT is studying a preferred alternative design for the I-70/U.S. 54 interchange to enhance safety and mobility through the corridor, provide access to nearby businesses and promote economic growth in Kingdom City. A welcome video and self-guided presentation about proposed improvements to the I-70/U.S. 54 interchange in Kingdom City are **available for review online and comment before March 1, 2022.**

There are two ways to comment:

1) Online: www.MoDOT.org/KingdomCityInterchange

2) Call: 1-888-ASK-MoDOT (275-6636)

Comments received before March 1, 2022, will be factored into the final results of the study, which is expected to be complete later this spring.

Please share this information with others who may be interested in this study. A flier promoting the opportunity for review and comment is also attached.

Lisa Kay Hummel On behalf of MoDOT Central District Phone 816-349-6821 Ikhummel@burnsmcd.com 3/25/22, 4:10 PM

Public comment period extended for MoDOT project

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Public comment period extended for MoDOT project

by Michael Shine | March 5, 2022 at 4:00 a.m.

The Missouri Department of Transportation extended the public comment period for a potential Kingdom City project.

MoDOT is considering a project to rework where Interstate 70 and U.S. 54 intersect.

The project is being considered for the draft 2023-27 Statewide Transportation Improvement Project.

All comments must be received by Tuesday, March 15 to be considered.

A welcome video and self-guided presentation going over the preferred alternatives are now available on the project webpage (www.modot.org/KingdomCityInterchange), at Kingdom City Hall (5584 Dunn Dr, Kingdom City), and at MoDOT Central District Office (1511 Missouri Boulevard, Jefferson City).

The recommended project is part of a traffic and safety study being completed by MoDOT and a consultant team. The goal of the study is to identify a preferred alternative design for the interchange that enhances safety and mobility through the corridor, provides access to nearby businesses and promotes economic growth in Kingdom City.

"After analyzing some of the preliminary results of the study and discussing those results with a local advisory group for this project, MoDOT is recommending that the interchange be updated to a Diverging Diamond Interchange," said Project Manager Mia Peters. "This would be similar to the Interstate 70 and Stadium Boulevard interchange in Columbia."

Print Headline: Public comment period extended for MoDOT project

2/16/22, 9:37 AM

Proposed Kingdom City interchange enhancements available for review

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Proposed Kingdom City interchange enhancements available for review

by Michael Shine | February 15, 2022 at 11:27 p.m. 0



A diagram of MoDOT's preferred option for a potential program reworking the intersections of U.S. 54 and I-70 in Kingdom City. (Submitted)

The Missouri Department of Transportation is seeking community input on a potential Kingdom City project.

The proposed project looks to improve traffic flow through the Interstate 70 and U.S. 54 interchange.

Weekly Email Newsletters

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Stay connected and informed with our free FultonSun.com weekly news update delivered straight to your inbox.

https://www.fultonsun.com/news/2022/feb/15/proposed-kingdom-city-interchange-enhancements-ava/

Sign Up

Comments are due Feb. 28 and can be submitted online, or by calling 1-800-ASK-MODOT.

The recommended improvements are part of a traffic and safety study being completed by MoDOT and a consultant team.

The goal of the study is to identify a preferred alternative design for the interchange that enhances safety and mobility through the corridor, provides access to nearby businesses and promotes economic growth in Kingdom City.



"After analyzing some of the preliminary results of the study and discussing those results with a local advisory group for this project, MoDOT is recommending that the interchange be updated to a Diverging Diamond Interchange," Project Manager Mia Peters said. "This would be similar to the Interstate 70 and Stadium Boulevard interchange in Columbia."

A diverging diamond interchange would have U.S. 54 split, adding stoplights and directing traffic onto long ramps depending on the direction they're trying to go.

The project also proposes extending the on and off ramps of I-70 on both sides of U.S. 54.

Early studies also looked at changes to Dunn Road, but MoDOT isn't recommending any at this time due to lower traffic volumes and substantially fewer crashes.

There is not currently a timeline for the completion of the project, but officials are looking at it for the https://www.fultonsun.com/news/2022/feb/15/proposed-kingdom-city-interchange-enhancements-ava/

2023-27 Statewide Transportation Improvement Plan.

"The problem we're having, and this was right before COVID, was that here is a pathway to the Lake," Kingdom City Manager Larry Doyle Jr. said. "They had a problem where people were like waiting for two hours to get out of say the McDonald's side of the road. Everything was just backing up because so many people are doing it."

More information can be found at www.modot.org/KingdomCity Interchange.



Presentation Materials



Zoom Meeting Tips Please remain on MUTE unless you are speaking. We encourage VIDEO ON so we can engage with each other. AT I-70 Also use the CHAT BOX to ask questions or share. Need to change your NAME? RENAME yourself using the Participants Tab, click "More." Please note this meeting is being recorded and will be part of the public record.

Welcome!

Interstate 70/U.S. Route 54 **Interchange at Kingdom City**

Stakeholder Advisory Committee Meeting #1 September 22, 2021 1:30 – 2:30 p.m.

AT I-70





Study Team

MoDOT

Mia Peters – project manager Kirsten Munck – area engineer Matthew Burcham – environmental lead Cyrus Meller – project designer Randall Glaser – design liaison Randall Aulbur – assistant district engineer

Consultants

Mike Herleth – project manager Jessica Hutton – safety Tim Cope – traffic & congestion Seth Gilliam – alternative analysis Meghan Jansen – public involvement Lisa Kay Hummel – public involvement Buddy Desai – NEPA re-evaluation



54

Study Phases



Discovery & Data Collection (current)

Draft Alternatives & Response (Nov. 2021*)

Preferred Alternative & Public Update (Jan. 2022*)

*Anticipated timing





Advisory Role

We value your time and input in this study.

As a project stakeholder who understands the community and travels through this interchange, your insight will help to deliver a preferred alternative informed by local needs.

5 AT 1-70

Advisory Representatives

Corporal Cody Frame – Missouri State Highway Patrol Linda Ellis – Callaway County Ambulance District Charlie Anderson – Callaway County Ambulance District Randy Kleindienst – East District Commissioner Curtis Warfield – Kingdom City Administrator Larry Doyle – Kingdom City Asst. City Manager Doug Kee – North Callaway School District Heath Haden – Ozark Valley Railroad Jim Baker – Warrenton Oil Company Adam Stanberry – Magic Wash Sam Waheed – Motel 6 & Amerihost Inn & Suites John Lummis – Callaway Carriers Don Logan – FedEx (Topeka) Brent Sims - FedEx Local Driver Brandon Opie – Opies Transport Inc. Kent Reed – Ozarkland



Mia Peters















5	Safety Survey
	MODOT
	I-70/US 54 Interchange at Kingdom City Safety Survey Please take a moment to share your experience traveling the I-70/US 54 interchange at Kingdom City, Missouri. Your input will be incorporated into a safety study currently being performed by MoDOT Central District.
	Jessica Hutton











Truck congestion at 54/Janice









Alternative Evaluation: Overview

How will the alternatives be evaluated?

Four main criteria categories: 1. Roadway, 2. Traffic, 3. Safety, 4. Constraints

How will the final alternatives be chosen?

A holistic decision-making process will consider the purpose + need, engineering performance, environmental impacts, and public input for each alternative.

What types of interchange & intersection designs will be explored?

A variety of interchange & intersection designs will be considered and incorporated into the design alternatives.



Alternative Evaluation: Roadway Criteria

ROADWAY							
Cost	Horizontal & Vertical	Access	Constructability	Consistency with			
	Geometric Concerns	Management	Concerns	Community Input			

Horizontal & Vertical Geometric Concerns

Are there geometric irregularities or design exceptions required?

Consistency with Community Input

Does the alternative design reflect comments received from stakeholders and overall community input?



Seth Gilliam



Alternative Evaluation: Traffic Criteria

TRAFFIC							
Intersection Level of Average Queue Truck Traffic Maintenance of Service Delay Lengths Operations Resilience Traffic							
<u>Queue Lengths</u> How much does traffic back up at the intersections? <u>Truck Operations</u> How well does alternative account for truck traffic?							
<u>Traffic Resilience</u> How well does alternative	e handle peak	traffic events	throughout the ye	ear?			
Maintenance of Traffic How is access and travel	maintained du	ring construct	tion?		G Seth Gillia		



Alternative Evaluation: Safety Criteria

SAFETY						
Reductions in	Reductions in	Intersection	Driver Expectation			
Total Crashes	Fatal & Injury Crashes	Conflict Points				

Reductions in Crashes

What will be the percent reduction/increase of crashes compared to today?

Intersection Conflict Points

How many intersection conflict points are there, compared to the existing design?





Alternative Evaluation: Constraints

CONSTRAINTS							
Right of Way Acquisition	Utility Impacts	Drainage Impacts	Environmental Considerations				
Right of Way Acquisition How much new Right of Way will be required?							
<u>Utility & Drainage Impacts</u> How will utility & drainage impacts affect the overall cost & schedule of project?							
Environmental Considerations							
What are the physical and social environmental impacts?							

Seth Gilliam



Alternative Evaluation: Summary

			RO	ADWA	Y		
Cost	Horizontal & Vertical Geometric Concerns		al & Vertical Access ic Concerns Management		Constru Con	ictability cerns	Consistency with Community Input
TRAFFIC							
Intersectio Serv	ersection Level of Average Queue Truck Traffic Maintenance Service Delay Lengths Operations Resilience of Traffic						
SAFETY							
Reduct Total C	ions in rashes	Reduc Fatal & In	Reductions in atal & Injury Crashes		Intersection Conflict Points Driver Expectation		
CONSTRAINTS							
Right of W	ay Acquisitio	on Utility I	mpacts	Drainag	ge Impacts	Environme	ental Consideration



Next Steps



Take & Share the Survey -employees, social media, fliers

Draft Alternatives & Response (Meeting planned for Nov. 2021)



Preferred Alternative & Public Update (Planned for Jan. 2022)



Meghan Jansen



Welcome!

Interstate 70/U.S. Route 54 Interchange at Kingdom City

Stakeholder Advisory Committee Subgroup Meeting October 25, 2021 from 3:00 – 4:00 p.m. Online via Zoom

Study Phases



AT I-70

5

Discovery & Data Collection (current)



Draft Alternatives & Response (Nov. 2021*)

Preferred Alternative & Public Update (Jan. 2022*)

*Anticipated timing



Mia Peters



Introductions

Mia Peters – MoDOT Project Manager Kirsten Munck – MoDOT Area Engineer Mike Herleth – Consultant Project Manager Seth Gilliam – Consultant Alternative Analysis Lisa Kay Hummel – Consultant Stakeholder Involvement Buddy Desai – Consultant NEPA Re-evaluation

Randy Kleindienst – East District Commissioner Curt Warfield – Kingdom City Administrator Jim Baker – Warrenton Oil Company Mark Mehle – McDonald's Sam Waheed – Motel 6 & Amerihost Inn & Suites (invited) George Eble – Westland Travel Center (invited)

Mia Peters





Early Design Concepts

Our team is in the early stages of exploring design alternatives.

The options we'll be discussing today are all DRAFTS and being presented for the purpose of gathering stakeholder input.





Factors influencing design considerations:

Mike Herleth

- Crash history
- Spacing





Dunn Drive (2015 through 2019)









Minimum spacing:

- 750 feet before a right turn is permitted
- 1320 feet before a left turn is permitted







IDEAS CURRENTLY BEING CONSIDERED

Mike Herleth



54

Close Dunn Road Access and Connect with Backage Roads to Old-40



Pavement Removal

- Consistent with 2005 recommendation
- Provides opportunity to improve right turn movements to and from the interchange ramps.
- Lots of improvements off the MoDOT highway system that would typically transfer to local agency.









Factors influencing design considerations:

- Crash history
- Spacing
- Congested sideroad
 intersections





Janice Avenue (2015 through 2019)





Minimum spacing:

- 750 Feet before a right turn is permitted
- 1320 Feet before a left turn is permitted







Congested Sideroad Intersections

Janice Avenue traffic prevents turns onto County Road 211 – restricting intersection flow and creating backup onto Route 54.

Narrow receiving area and reduction to one lane eliminate benefit of dual left-turn lanes from US 54.







IDEAS CURRENTLY BEING CONSIDERED

> Ų Mike Herleth



Relocate Median Crossing – Remove all access at Janice

- Consistent with 2005 recommendation
- Provides nearly 2,600' separation from I-70
- Added opportunity to • address high-volume lake traffic on weekends going EB on I-70
- Lots of improvements off the MoDOT highway system that would typically transfer to local agency.



Pavement Removal





🕅 Pavement Removal

Relocate Median Crossing with Right-in/Right-out access at Janice

- Consistent with 2005 recommendation
- Provides nearly 2,600' separation from I-70
- Equitable solution for all businesses?
- Lots of improvements off • the MoDOT highway system that would typically transfer to local agency.





- **Redesign Janice Avenue & County Road 211**
 - Retain current location of median break on 54
 - Prioritize traffic exiting 54 to turn south onto County Road 211
 - Widen Jasper east of Route 54 for 2-lane capacity eastbound

Will require loss of parking spaces at DQ/Jaspers







Thank you!

Additional comments can be provided to Kirsten Munck <u>Kirsten.munck@modot.mo.gov</u>

*Please provide by Friday, Oct. 29

AT I-70





Mia Peters

Welcome!



Interstate 70/U.S. Route 54 Interchange at Kingdom City

Stakeholder Advisory Committee Meeting #2 November 17, 2021 1:00 – 2:30 p.m. via Zoom



Study Team

MoDOT

Mia Peters – project manager Kirsten Munck – area engineer Machelle Watkins – district engineer Randall Aulbur – assistant district engineer Randall Glaser – design liaison Adam Pulley – communications manager

Consultants

Mike Herleth – project manager Jessica Hutton – safety Tim Cope – traffic & congestion Seth Gilliam – alternative analysis Meghan Jansen – public involvement Lisa Kay Hummel – public involvement Buddy Desai – NEPA re-evaluation





Today's Goal:



Gather feedback on concepts to inform the selection of a preferred alternative to present for public comment in January.





Advisory Role

We value your time and input in this study.



As a project stakeholder who understands the community and travels through this interchange, your insight will help to deliver a preferred alternative informed by local needs.

Mia

Meghan Jansen

54.

Advisory Representatives

Corporal Cody Frame – Missouri State Highway Patrol Linda Ellis – Callaway County Ambulance District Charlie Anderson – Callaway County Ambulance District Randy Kleindienst - East District Commissioner Curtis Warfield – Kingdom City Administrator Larry Doyle – Kingdom City Asst. City Manager Doug Kee – North Callaway School District Heath Haden – Ozark Valley Railroad Jim Baker – Warrenton Oil Company Adam Stanberry – Magic Wash Sam Waheed - Motel 6 & Amerihost Inn & Suites John Lummis – Callaway Carriers Don Logan - FedEx (Topeka) Brent Sims - FedEx Local Driver Brandon Opie – Opies Transport Inc. Kent Reed - Ozarkland Mark Mehle – McDonald's George Eble - West land Travel Center / Phillips 66 Linda Diluvio – Village of Kingdom City Trustee



Outline for Today



1. Concepts for Review by Section

- Section 1: I-70 Ramps
- Section 2: North Intersection
- Section 3: Interchange
- Section 4: South Intersection
- 2. Concept Evaluation



54

Safety

WB On Ramp Merge 2015-2019	Predicted	Observed
Total crashes	2.8	23
Fatal and injury crashes	0.9	6*
Crash frequency rate (crashes/million veh mi)	0.5	4.1
Fatal and injury crash frequency rate (crashes/million veh mi)	0.16	1.1

EB On Ramp Merge 2015-2019	Predicted	Observed
Total crashes	2.1	12
Fatal and injury crashes	0.7	2
Crash frequency rate (crashes/million veh mi)	0.45	2.6
Fatal and injury crash frequency rate (crashes/million veh mi)	0.15	0.43

Crash Analysis:

- At the WB on ramp merge area, total crashes are **7 times higher** than what is predicted; fatal and injury crashes are **6 times higher** than predicted
- At the EB on ramp merge area, total crashes are 5 times higher than predicted; fatal and injury are nearly triple what is predicted

Safety Recommendations:

- Extend ramps and merge length substantially
- Mitigate safety risk of bridge pier on WB ramp traffic





Traffic Operations

- High truck traffic
- Acceleration / Deceleration
- Holiday & Lake Traffic Peaks








RAMPS

Ramp Extensions with Railroad Bridge Removal





RAMPS

Ramp Extensions with Railroad Bridge In Place





Evaluation Matrix: Ramps

		RAMPS	
CRITERIA	1.1	1.2	1.3
	Existing Ramps	Ramp Extension w/ RR Bridge Removal	Ramp Extension w/ RR Bridge In Place
Cost	3	1	2
Consistency with Community Input	1	3	3
Traffic Operations	1	3	3
Maintenance of Traffic During Construction	3	2	2
Safety	1	3	3
Driver Expectation	2	3	2
Right of Way Impacts	3	3	3

Mike





Outline for Today



1. Concepts for Review by Section

- Section 1: I-70 Ramps
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- 2. Concept Evaluation



54

Safety

Old US 40 2015-2019	Predicted	Observed
Total crashes	26.2	24
Fatal and injury crashes	13.8	10
Crash frequency rate (crashes/million veh)	1.2	1.1
Fatal and injury crash frequency rate (crashes/million veh)	0.63	0.46

Dunn Drive 2015-2019	Predicted	Observed
Total crashes	11.3	15
Fatal and injury crashes	6.2	4
Crash frequency rate (crashes/million veh)	0.46	0.61
Fatal and injury crash frequency rate (crashes/million veh)	0.25	0.16

Crash Analysis:

- Intersection of Old US 40 and US 54 operates like what is predicted for an intersection with similar geometry and traffic volumes
- Intersection of Dunn Drive and US 54 experiences about 20% more crashes than predicted
- The fatal and injury crash rate is lower than predicted at both intersections

Safety Recommendations:

 Reduce the likelihood of angle and left-turning crashes to reduce crash risk











NORTH INTERSECTION Existing Dunn Rd Intersection



Seth



NORTH INTERSECTION Dunn Rd Relocation







NORTH INTERSECTION Dunn Rd Relocation



Westbound Dunn Rd Left-Out Access

Pavement Removal





NORTH INTERSECTION Dunn Rd with Right-In, Right-Out (RIRO) Access



Pavement Removal



NORTH INTERSECTION Dunn Rd with Right-In, Right-Out (RIRO) Access



US54 SB Left-In Access





Seth



NORTH INTERSECTION Dunn Rd with Right-In, Right-Out (RIRO) Access

Eastbound Dunn Rd Left-Out Access

Westbound Dunn Rd Left-Out Access

XX Pavement Removal



Seth



Evaluation Matrix: North Intersection

		NORTH INTERSECTION		
CRITERIA	2.1	2.2	2.3	
	Existing Dunn Rd	Dunn Rd Relocation	Dunn Rd w/ Right-In, Right-Out (RIRO) Access	
Cost	3	2	1	
Business Access	3	2	2	
Consistency with Community Input	3	3	1	3 Good
Traffic Operations	2	3	3	2 Average
Maintenance of Traffic During Construction	3	2	2	1 Poor
Safety	2	3	3	
Driver Expectation	3	2	1	
Right of Way Impacts	3	2	1	







Outline for Today



- 1. Concepts for Review by Section
 - Section 1: I-70 Ramps
 - Section 2: North Intersection
 - Section 3: Interchange
 - Section 4: South Intersection
- 2. Concept Evaluation



Safet	У		
North Ramp Terminal (WB) 2015-2019	Predicted	Observed	
Total crashes	38.9	44	
Fatal and injury crashes	13.35	10	
Crash frequency rate (crashes/million veh)	1.24	1.4	
Fatal and injury crash frequency rate (crashes/million veh)	0.43	0.32	
Couth Down Townia of (ED)			
2015-2019	Predicted	Observed	
Total crashes	41.9	123	
Fatal and injury crashes	14.1	18	
Crash frequency rate (crashes/million veh)	1.04	3.05	
Fatal and injury crash frequency rate (crashes/million veh)	0.35	0.45	

Crash Analysis:

- The westbound ramp terminal has about 13 percent more crashes than expected, but fewer fatal and injury crashes.
- The eastbound ramp terminal has 3 times the number of expected crashes, but a much smaller proportion of fatal and injury crashes than expected

Safety Recommendations:

- Increase capacity for better traffic progression
- Accommodate heavy trucks
- Provide clear pavement marking and signs



Traffic Operations

- Interchange capacity
- Number of stops
- Crossing movements



Jessica



INTERCHANGE

Existing I-70/US54 Interchange



Seth



INTERCHANGE

Diverging Diamond (DDI) Interchange



Seth



Evaluation Matrix: Interchange

	INTERCHANGE		
CRITERIA	3.1	3.2	
	Existing Interchange	Diverging Diamond (DDI) Interchange	
Cost	3	2	
Business Access	3	3	
Consistency with Community Input	1	3	
Traffic Operations	1	3	
Maintenance of Traffic During Construction	3	1	
Safety	1	3	
Driver Expectation	3	2	
Right of Way Impacts	3	3	



Mike





Outline for Today



1. Concepts for Review by Section

- Section 1: I-70 Ramps
- Section 2: North Intersection
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Jessica

Safety

Janice Ave 2015-2019	Predicted	Observed
Total crashes	31.1	82
Fatal and injury crashes	16.2	12
Crash frequency rate (crashes/million veh)	1.01	2.66
Fatal and injury crash frequency rate (crashes/million veh)	0.53	0.39

Crash Analysis:

 The intersection at Janice Avenue experiences about 2.6 times as many crashes as predicted, but only about 75% as many fatal and injury crashes

Safety Recommendations:

- Separate conflicts as much as possible by shifting access points along Janice away from the intersection at US 54
- Consolidate access points were possible
- Increase capacity through the intersection, especially for trucks



Traffic Operations

- Intersection spacing
- Crossing movements









Seth



SOUTH INTERSECTION

Janice Ave. Local Intersection Modifications





Seth



SOUTH INTERSECTION

Janice Ave. Throughabout (Hamburger) Intersection with Local Intersection Improvements









Janice Ave. Intersection Relocation with Right-In, Right-Out (RIRO) Access at Janice Ave.



XX Pavement Removal

Seth

5.4

Evaluation Matrix: South Intersection

		NORTH	INTERSECTION		
	4.1	4.2	4.3	4.4	
CRITERIA	Existing Janice Ave. Intersection	Janice Ave. Local Intersection Modifications	Janice Ave. Throughabout w/ Local Intersection Modifications	Janice Ave. Intersection Relocation w/ RIRO Access at Janice Ave.	
Cost	3	2	2	1	
Business Access	3	3	2	2	
Consistency with Community Input	2	3	3	2	3 Good2 Averag
Traffic Operations	1	2	3	3	1 Poor
Maintenance of Traffic During Construction	3	2	1	3	
Safety	1	2	3	3	
Driver Expectation	3	3	2	3	
Right of Way Impacts	3	2	2	1	🔮 Mik



Opportunities to Add Input

Email Project Team Your Comments Kirsten.munck@modot.mo.gov Lkhummel@burnsmcd.com

AT I-70

Project Team will reach out after Thanskgiving with an offer to share input individually

(Concepts shown today will be distributed the meeting)





Next Steps



Preferred Alternative & Public Update (Planned for Jan. 2022)



Online Public Meeting Presentation

WELCOME

Interstate 70 / U.S. Route 54 Interchange at Kingdom City

Study Update & Preferred Alternative February 15 – 28, 2022

Interstate 70 / U.S. Route 54 Interchange at Kingdom City

STUDY GOAL

>>

Identify a **preferred alternative** design for the interchange that **enhances safety** and **mobility** through the corridor, provides **access to nearby businesses** and promotes **economic growth** in Kingdom City.



Study Process





Data Collection & Discovery September – October 2021

>>

Draft Concepts & Evaluation November 2021 – January 2022



Preferred Alternative & Public Update *February 2022*



Final Report & Recommendations *May 2022*



Discovery & Data Collection



400 people participated in a short safety survey in October of 2021. Nearly 70% of respondents were local residents. Business owners and commercial truck drivers also weighed in.



More than 35% **feel this interchange is less safe** compared to others.



Nearly 75% believe that high traffic volumes lead to crashes or near misses.



Top safety concerns included:

- Difficulty merging onto I-70
- Traffic backing up at intersections
- Interactions between heavy trucks and passenger vehicles

Discovery & Data Collection

More than 20 nearby businesses and local representatives participated in a Stakeholder Advisory Committee. Their thoughtful input helped the team deliver a design informed by local needs.

Thank you to those who shared their time!

Lots of valuable insight helped the design team explore options and determine a preferred solution.

Here are some of the things we heard:

- Improving safety is important for families, employees and customers.
- Maintaining **business access** is vital.
- Construction phasing and timing will be important.







I-70 Ramps: Current Conditions (No Build)



The existing I-70 on-ramps are short and do not meet current MoDOT standards.

This makes merging onto I-70 difficult and sometimes results in traffic backing onto the interstate.

1

I-70 Ramps: Exploration

Option #1: Increase Ramp Lengths & Remove Railroad Bridge



The team considered several solutions, including removing the existing railroad bridge and reconfiguring the ramps.









>>







The preferred solution significantly increases the length of on- and off-ramps with the existing railroad bridge left in place.



North/Dunn Rd.: Current Conditions (No Build)

>>





Currently, the Dunn Rd. intersection is **quite close to I-70.** When congestion occurs, **traffic can back up onto U.S. 54** – providing even **less space for vehicles exiting I-70** to maneuver into the appropriate lane.

1

North/Dunn Rd.: Exploration





Option #1: Right-in/Right-out at Dunn Rd. and construct west & east backage roads



Option #2: Relocate Dunn Rd. and construct west backage road

The team explored several solutions, including **removing some turning movements** and the use of **backage roads**.

These options would be **costly** and were **not well received** by stakeholders.







The **preferred solution** keeps Dunn Rd. as-is, **maintaining existing business access** and allowing project funds to be spent in areas of greater need.

Dunn Rd. has much **less traffic** volumes and substantially fewer crashes than other areas of the study. This solution would also allow for future improvements to accommodate new development or other local needs as they emerge.







>>

The existing interchange **does not** accommodate current and projected traffic volumes.





The team explored several solutions, including a double roundabout.

3

I-70/U.S. 54 Interchange: Preferred Alternative



IMPROVE



The preferred solution is a **Diverging Diamond Interchange (DDI).** A DDI would:

- Provide substantial safety benefits.
- Alleviate congestion and long turning lines that back up onto I-70 exit ramps.
- Offer the greatest cost/benefit value.

This interchange would be **similar to I-70 & Stadium Blvd. in Columbia, MO.**

A video example of a DDI is available on MoDOT's YouTube page: youtube.com/watch?v=kMq1hReQ6xs

4

South/Janice Ave.: Current Conditions (No Build)

>>



Currently, Janice Ave. experiences heavy congestion that can cause traffic to back up onto U.S. 54. In addition, the turning lanes do not accommodate trucks well, and this slows traffic flow through the intersection.

3



South/Janice Ave: Exploration

Option #1: Janice Ave. Intersection Relocation



Option #2: Janice Ave. Throughabout Intersection



>>

The team explored several solutions, including relocating the intersection and a throughabout.



4

South/Janice Ave: Preferred Alternative





The **preferred solution** includes **local road improvements** that would:

- Improve traffic flow and alleviate congestion.
- Better accommodate side-by-side southbound left turns for trucks.
- Offer the greatest cost/benefit value.





Anticipated Improvements



The Study's preferred alternative is anticipated to deliver the **following improvements.**

- 1. Enhance safety through the reduction of conflict points
- 2. Improve traffic flow keeping traffic on their way!
- 3. Opportunities for less disruption to local businesses
 - We understand construction timing and phasing is important – these details will be advanced in the next phase of the project.





Recommended Improvements to I-70 Ramps (on the west)



1

Recommended Improvements to Ramps (on the east)





N)

>>

substantially extended to better allow acceleration and merging onto I-70. The westbound exit ramp will also be extended to provide more space for exiting vehicles.



North/Dunn Rd. – No Change



Dunn Rd. has significantly **less traffic volumes** than other areas of the study. No changes are currently planned. The addition of **a traffic signal for right turns exiting from westbound I-70** will provide **gaps for left turns** at Dunn Rd.

IMPROVE

Recommended Improvements to I-70/U.S. 54 Interchange





A Diverging Diamond Interchange (DDI) would reduce conflict points by crossing the northbound and southbound lanes of U.S. 54 over I-70. This makes left turns easier, accommodates more traffic and reduces the risk of crashes.

4

3

Recommended Improvements to Janice Ave.

>>



Moving the intersection of Janice Ave. and County Road 211 away from the traffic signal at U.S. 54 adds more storage and provides priority for U.S. 54 traffic turning onto Janice Ave.

IMPROVE

A third **northbound through lane** would **improve traffic flow** during peak seasons.

Next Steps



TELL US WHAT YOU THINK

Comment via the online comment form: <u>www.modot.org/KingdomCityInterchange</u>

Comments received before March 1, 2022, will be factored into the final results of the study, which is expected to be complete later this spring.



A hard copy display of the preferred alternative is available for viewing at Kingdom City Hall and MoDOT Central District Office in Jefferson City. Call 1-888-ASK-MoDOT (275-6636) if you require another option to comment.

THANK YOU

This project is being considered for addition to the Draft **2023-2027 Statewide Transportation Improvement Program (STIP).**



Public Comments

Comment Matrix Letters



Comment	Response	Name	Contact Info.	Source
Hello, I am a scientist with the U.S. Department of Agriculture and I have research studies at the				
Tucker Prairie location that is near the proposed I-70/Route 54 interchange construction. This site is owned by the University of				
Missouri and is the largest native prairie left in the state (although it is quite small!). This site is very useful for agricultural science				
because it provides an example of water use and carbon storage dynamics from an 'end-member' site. As we try to create	Good morning and thank you for the comment regarding the Tucker Prairie Natural Area. The location of			
agricultural systems that maximize profit and sustainability, it is very useful to know how a site would function if it were fully	Tucker Prairie Natural Area is approximately 2.5 miles at the nearest point from the proposed road			
focused on sustainability, which is what the prairie provides. An important aspect of this is monitoring water and carbon ruxes over	improvements at the US 54/I-70 interchange. Any changes at the US 54/I-70 proposed will not alter runom			
the site. I hope that the proposed construction does not all ter runoff into the prairie. I also hope that no neavy equipment or	onto the natural area and no equipment or heavy construction traffic should occur near the natural area.			
asphalt etc. is operating near the site. This could atter our measurements of carbon and/or water use in the prairie, I don't expect it	Also, all anticipated contractor operations such as asphalt or concrete paying will occur outside the area or			
to be a problem, but I wanted you guys to be aware of this site.	the natural area. Contractors may determine a need to set up a mobile plant to produce asphalt or			
I hank you for your consideration:	concrete to support project construction. Contractors will be notified of the location of the fucker Prairie	A dave Cebroiner McCrow		- mail
Adam	Natural Area and will be advised to avoid impacts to the property.	Adam Schreiner-WicGraw	adampschreiner@gmail.com	emaii
Hello, I am a scientist with the U.S. Department of Agriculture and I have research studies at the Tucker Praine location that is near				
the proposed I-70/Route 54 interchange construction. This site is owned by the University of Missouri and is the largest native				
prairie left in the state (although it is quite small). This site is very userul for agricultural science because it provides an example of				
water use and carbon storage dynamics from an end-member site. As we try to create agricultural systems that maximize prom				
and sustainability, it is very useful to know now a site would function if it were fully focused on sustainability, which is what the	Conditional the second strength and the second seco			
prairie provides. An important aspect or this is monitoring water and carbon nuxes over the site. I nope that the proposed	Good morning and thank you for the comment regarding the Tucker Prairie Natural Area. The location of			
construction does not alter runoff into the prairie. I also hope that no heavy equipment or asphalt etc. is operating near the site.	Tucker Prairie Natural Area is approximately 2.5 miles at the nearest point from the proposed road			
This could alter our measurements of carbon and/or water use in the prairie. I don't expect it to be a problem, but i wanted you	improvements at the US 54/I-70 interchange. Any changes at the US 54/I-70 proposed will not alter runom			i
guys to be aware of this site.	onto the natural area and no equipment or heavy construction traffic should occur near the natural area.			i
	Also, all anticipated contractor operations such as asphalt or concrete paving will occur outside the area of			
Thank you for your consideration!	the natural area. Contractors may determine a need to set up a mobile plant to produce aspnait or			
	concrete to support project construction. Contractors will be notified of the location of the Tucker Prairie			online web
Adam	Natural Area and will be advised to avoid impacts to the property.	Adam Schreiner-McGraw	adampschreiner@gmail.com	forum
I am so glad we are finally doing something about that intersection in kingdom city. It is way long over due. I am in favor of #4 if I				
looked at it correctly. Above all, I am just happy something is being done, especially the entrance going into gaspers/arbys. Arby s	Thank you for your comments. We value your input and will use it while considering options as this	and the second	allenfloodthompson@yanoo.co	online web
looks like something stevie wonder and Ray Charles came up with. Makes no sense at all.	important project develops.	Allen Flood-Thompson	m	forum
	Thank you for your comments. We value your input. The traffic study has analyzed the current and tuture			
	2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional			
	ramp/intersections enhancements will provide significant improvements for current and future 2045			
	conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across			
	the state and expect the same results at this intersection. If you are interested to learn more about a DDI			
Please don't change 54 interchange in kingdom city. When Columbia made changes like this and the round abouts I stopped going	interchange, please follow this link. Diamond-Type Interchanges Missouri Department of Transportation			online web
to Columbia completely. Please don't screw up Kingom city it is fine the way it is	(modot.org)	JoeSommer	alpha102@hotmail.com	forum
	Thank you for your comments. We value your input. The goal of the current study is to improve safety and			
	mobility through the corridor by reducing crashes and peak period congestion. Additional considerations			
	include cost effectiveness, right of way and utility impacts, roadway characteristics, and environmental			
	factors. The traffic, safety and operations study found that the Diverging Diamond Interchange (UU) and			
	additional intersection/ramp enhancements will provide significant improvements for current and ruture			
	2045 conditions. One important consideration of this project is cost effectiveness. We chose to examine			
	solutions that did not require major impacts to the bridge or a total bridge replacement, to provide for the			
	most economical solution that addresses the congestion and safety concerns at the interchange, while we			
	understand the desire to do more and make more substantial changes, we have to consider the financial			
	realities that we face as the seventh largest state system in the nation. Our transportation needs far			
I'm in favor of changing the intersection at US 54 and I-70. However, the proposed changes listed above will negatively impact the	outweigh available transportation funding, so in each project that we develop, we're tocused to provide		andrew.rehmer2010@gmail.co	online web
businesses at the Lake of the Ozarks.	cost effective solutions.	Andrew Rehmer	m	forum
I think this information at the start "More than 35% feel this interchange is less safe compared to others" and "Nearly 75% believe				
that high traffic volumes lead to crashes or near misses" is slightly irrelevant. 35% is far below half which doesn't really solidify the				
idea as legitimate. additionally, 3/4 people believing an obvious statement seems redundant. it doesn't feel like these statistics are				
idea as legitimate. additionally, 3/4 people believing an obvious statement seems redundant. it doesn't feel like these statistics are bringing a strong case for support.				
idea as legitimate. additionally, 3/4 people believing an obvious statement seems redundant. it doesn't feel like these statistics are bringing a strong case for support. the plans however, make sense. traffic volume and interplay with semi trucks and recreational vehicles has been an issue for a long				
idea as legitimate. additionally, 3/4 people believing an obvious statement seems redundant. it doesn't feel like these statistics are bringing a strong case for support. the plans however, make sense. traffic volume and interplay with semi trucks and recreational vehicles has been an issue for a long time I would like to see this marketed better though. I feel with more focus on the sheer volume of cars/trucks coming through				
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Having lived near and drove through Kingdom City for my entire life, seeing the potential changes to "Janice Ave†are wonderful! That has always been a terrible area to maneuver and the additions in recent years have expedited the need for improvement. While the "throughabout†seems odd, the simple redesign of the current road in the other option seems like it would help the flow significantly. As for the ramps on and off 70, adding length if necessary seems fine. However, the Dunn Rd reconstruction seems unnecessary at this time and I agree with the statement to wait. But the redesign of the lights and the diamond pattern has me reeling. That intersection design is terrible just as it is terrible to try to drive through the one in Columbia. I think you will see more accidents and back up as a result of the crossings and add significant traffic volume and I understand that it does occasionally get backed up on holiday weekends and the like, however I do not this to solves the problem and would be very frustrated as a tax payer to see this proposed intersection design implemented. Thank you.	Thank you for your comments. We value your input. We understand this is a significant change and it will take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please follow this link for more information about a DDI interchange:https://www.modot.org/diamond-type-interchanges	e Bailey Abell	baykempster@hotmail.com	online web forum
As a local who travels this overpass on a very frequent basis, sometimes in a semi, I think the lengthening of the ramps would be the best alternative. I think the diamonds would be a total disaster. People in Columbia can't even figure them out, I can only imagine what the lake traffic coming from St. Louis is going to do with something like that. A lot of them can't even drive on normal roads and of course you have the football traffic that gets off at Kingdom City for a pit stop of which I have personally seen several inebriated driver's before they even get to the game, let alone on the way home. Thank you for allowing us to comment. Barb	Thank you for your comments. We value your input. We understand this is a significant change and it will take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri	2		online web
Brouster	Department of Transportation (modot.org)	BARBARA BROUSTER	bbrouster@ktis.net	forum
I was wondering if any other intersections designs were looked at by MODOT besides the Diverging Diamond design. Personally, I don't like it, seems like I am driving back in England driving on the left side of the road when I get off I-70 in Columbia to use the one at Stadium Blvd. It seems counter intuitive to drive on the left in the US. While I understand the need for some improvement due to the summer lake traffic mixing with all the truck traffic, I wonder if looking at this model was based more on what was affordable than easiest for drivers. Furthermore, if this model is adopted, MODOT will have to do a better job keeping up with painting the lanes and overhead signage since it is a confusing model for some drivers (especially those who have not driven to the other states/cities that use this model-even though Springfield area has more than one and MO had the first one in US built in Springfield in 2009 and other states are copying it. (wsdot wa.gov/travel/traffic-safety-methods/diverging-diamond-interchange). As it is now, unless one knows the traffic lanes now, the paint is so worn on the turn lanes, hard to tell which lane to get into if going East from Gaspers crossing Highway 54 or turning left to go north on 54 , made worse driving at night in the rain. A less expensive method to help reduce crashes statewide would be for Missouri to have a hands free cellphone driving law. Too many traffic crashes and pedestrian fatalities are due to cell phone use. It is stupid to have a law that no one under 21 can text and drive when that should be the law for all drivers. Missouri is way behind other states in this area. Plus the penalty for texting and driving should be a costly one to act as a deterrent. Thank you.	Thank you for your comments. We value your input. We understand this is a significant change and it will take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the same results at this intersection. If you are interested to learn more about a DDI interchange, please follow this link. Diamond-Type Interchanges Missouri Department of Transportation (modot.org)Thank you for your support of "Buckle UP, Phone DOWN". We at MODOT also agree that cellphones in the hands of drivers are a major issue in our state.	Clindy Stevenson	benbarbtiffanv@vahoo.com	online web
A diverging diamond is a great idea and I fully support and encourage it. The concept plan shows the westbound I-70 offramp has two left turn lanes with a traffic signal before vehicles would turn left onto the one-way road to the south. MoDOT should support a change in state law to allow left turns on red lights at one-way road intersections like this ramp terminus. Left turns from a one				
one-way road onto another one-way road to the left is already legal in Kansas City Missouri, every state that borders Missouri, and 47 states total. MoDOT should support allowing left turns at red traffic signals from a one-way ramp exit onto a one-way road of the the unit of the discussion of the discussion.	Thank you for your comments. We value your input and will use it while considering options as this	Dec Dece	h	online web
the diverging diamond.	Thank you for your comments. We value your input. The goal of the current study is to improve safety and mobility through the corridor by reducing crashes and peak period congestion. Additional considerations include cost effectiveness right of way and utility impacts roadway characteristics and environmental	Ben Koss	beniisaross@gmaii.com	torum
The biggest problem with his inner change, after driving to the lake for 50 years now is coming north on 54 waiting in line to get onto 70 eastbound. It really need a fly over, versus a stoplight. Traffic gets backed up on normal weekends and a mile or more on holiday weekends. A fly over ramp would help. Those that want to stop and shop could also do it per your drawings. So glad this is in planning phase.	factors. Our study found that the Diverging Diamond Interchange (DDI) and additional intersection/ramp enhancements will provide significant improvements for current and future conditions. One important consideration of this project is cost effectiveness. We chose to examine solutions that did not require major impacts to the bridge or a total bridge replacement, to provide for the most economical solution that addresses the congestion and safety concerns at the interchange. While we understand the desire to do more and make more substantial changes, we have to consider the financial realities that we face as the seventh largest state system in the nation. Our transportation needs far outweigh available transportation funding, so in each project that we develop, we're focused to provide cost effective solutions.	Lee Larkin	birllarkin@gmail.com	online web forum
I worked on the I-70 studies for most of my career at MoDOT. I'm sure you know there is already a preferred alternative approved by FHWA for this location, which I assume needs a reevaluation. We worked for four years with a community advisory committee to come up with the preferred alternative. It was not easy. While I am a huge proponent of DDIs, I am not sure how it will work at this location. I'm quite confident that the heaviest movements here are from westbound I-70 to southbound US 54, and northbound 54 to eastbound I-70. With an in-balance of left-turn movements, I'm not sure the DDI is the best alternative. Plus, the heavy amount of trucks at this location seems problematic to me. Lengthening the ramps is a must, but a SPUI might be a better choice at this	Thank you for your comments. We value your input. The consultant working on the study has analyzed the current and future 2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional intersection/ramp enhancements will provide significant improvements for current and future 2045 conditions. The SPUI design that you suggest in your email would require a bridge replacement. One important consideration of this project is cost effectiveness. We chose to examine solutions that did not require major impacts to the bridge or a total bridge replacement, to provide for the most economical			online web
location.	solution that addresses the congestion and safety concerns at the interchange.	Bob Brendel	bobbrendel53@gmail.com	forum
	Thank you for your comments. We value your input. We understand this is a significant change and it will take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the same results at this intersection.	Bryant Liddle	Bryant@blineengraving.com	online web forum

	Thank you for your comments. We value your input. We understand this is a significant change and it will			
	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
While I don't claim to be an expert, I tind diamond exchanges to be confusing. The one in Kansas Lity at MO152 AND I-35 hasn't	Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please			ممانمه بينمام
seemed to be successful at improving traine now, it simply causes people who wind up in the wrong lane to cat on other drivers in an attempt to exit where they want to Thanks for the opportunity to comment	Department of Transportation (model org)	Lora Young	hugman987@vahoo.com	forum
an attempt to exit where they want to mains to the opportunity to comment.		Lora roung	buginari987@yanoo.com	Iorum
make investigations are any whole me, and worked in kingdom city 55 years now, make seen tigrow and understand lake traine is a problem in the summer				
I feel like the proposed intersection such as at 170 and stadium in Columbia would be a big mistake. to much confusion for	Thank you for your comments. We value your input. We understand this is a significant change and it will			
todavís traffic.	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
I believe the round abouts or some clover leaf exit rams are some better answers, clover leafs would also give some lengthy	Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please	1		
staging Lanes to get traffic off the interstate.	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri			online web
Please take this into consideration.	Department of Transportation (modot.org)	Brian Knipp	cannonball@ktis.net	forum
I think that the proposed improvements to the interchange will significantly improve traffic flow and safety in the area. In particular	Thank you for your comments on MoDOT Project J5P3417 Callaway 54/70 Interchange Improvements. We			online web
during the heavy traffic times of holiday weekends.	value your input!	Jacob Ray	cardsfan1994@hotmail.com	forum
	Thank you for your comments. We value your input. We understand this is a significant change and it will			
	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
	Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please	1		
Diverging diamonds' not double roundabouts. There are too many large trucks and people who don't know how to drive in	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri			online web
roundabouts, which will make traffic worse.	Department of Transportation (modot.org)	CariAnne Behr Huffman	caribehr@gmail.com	forum
Spending over 6.5million doilars just to rearrange some traffic lights?? This plan is not going to create any large improvement in the				
current tranic flow. The big delays caused by left turning trucks into and off or USS4 at Janice lane is still a HUGE impediment to	Thank you for your commants. We value your input. We understand this is a significant shares and it will			
traine now. And the ongoing maintenance costs of numerous trainic lights is unneeded.	thank you for your comments, we value your input, we understand this is a significant change and it will take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
Create a large nate taken to understand that has to or units south of pance and not not or or units. That will continue to move, access	Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please			
times to local businesses will only be modes up increased at worst, increasing a businesses will only of the second and the optimized at worst, increasing the advantage of the second at the second a	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri			online web
safety win go exponentially: An while or going costs go to essentially noting beyond road surface maintenance. Intersections like this have been in place in Furnne for years and they work excentionally well!	Department of Transportation (modot org)	Carl Behr	chehr84@gmail.com	forum
Thanks for your time and effort on this project: there is a substantial amount of information.		can ben	aberrio reginameerri	lorum
I have used the DI in Columbia and feel comfortable with it. My suggestion is consult and teach those in the county (my age) and				
who are unfamiliar and afraid to use the Columbia DI, ie. a public service on TV stations - video being inside a traveling vehicle				
maneuvering the different scenarios and options.				
My second suggestion is to ask you to re-evaluate whether only one northbound lane dedicated to the westbound entrance ramp).			
As someone who worked in Columbia for a decade ending in 2013, one lane was often not enough.				
Love the longer entrance/exit ramps!!!!	Thank you for your comments. We value your input on public information/education and movements to the	2		online web
Love the notion of not vying with southbound traffic not stopping at red traffic lights to take the westbound entrance ramp!!!!	westbound 70 ramp and will use it while considering options as this important project develops.	Catherine Goser	cmgoser@yahoo.com	forum
Love the notion of not vying with southbound traffic not stopping at red traffic lights to take the westbound entrance ramp!!!!	westbound 70 ramp and will use it while considering options as this important project develops. Thank you for your comments. We value your input and will use it while considering options as this	Catherine Goser	cmgoser@yahoo.com	forum online web
Love the notion of not vying with southbound traffic not stopping at red traffic lights to take the westbound entrance ramp!!!! the on and off ramps need to be longer, incredibly unsafe there	westbound 70 ramp and will use it while considering options as this important project develops. Thank you for your comments. We value your input and will use it while considering options as this important project develops.	Catherine Goser Cory Nobis	cmgoser@yahoo.com CNOBIS68@GMAIL.COM	forum online web forum
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The proposed interchange project is like the I-70 and Stadium interchange in Columbia. There are numerous wrecks that happen				
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on the interchange because it is so contusing. The most common area of contusion for drivers at the kingdoms city interchange is				
drivers coming off 1-70 then driving to Fulton. Those individuals have a yield sign so they miss traffic coming at them. A stop light				
at that intersection would be an easy and much cheaper hix. The other area at the interchange are drivers coming from St. Louis interview of the state that the state of the s				
into Anguoni city and tanàng toward ration. People upon occasion tanàna or tanàna so trey are going nead on toward universibility da tanàna sa sana ang ang ang ang ang ang ang ang ang	A Thank you for your comments. We value your input. The traffic study has analyzed the surrent and future			
the singe period there exists an aptical you what fit would be appropriate However Lucuid imagine compthing simple could be	2045 traffic and the study has shown that the Diverging Diamond latershapper (DDI) and additional			
the signage posted there so i can not ten you what he would be appropriate. However, I would imagine sometiming simple could be deepert the interaction as well. If there the issues are rescliced that that leaves the off sames not being long anough and this	2045 traine and the study has shown that the Diverging Diamond Interchange (DDI) and additional			
done at this intersection as well. In these two issues are resolved then that leaves the on ramps hot being long enough and this could be taken care of without baying to charge the ovirties layout. The main issue is that the propried construction will make	conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations arrows			
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that interchange indice danger loss because it is too comissing. Wyself and an other wissourings may clarke to about the stability of a stability of the stabil	interchange please follow this link. Diamond-Type Interchanges Missouri Department of Transportation			online web
and the few issues we have at this interchange	(modot org)	Dawn O'Connor	Dawn O'Connor@dmh mo gov	forum
The preferred alternative annears to be a very good choice. However, I think the study was weakened by not considering backage	(Ballino Collifor	Battine contor e animiligor	loram
road(s) crossing over I-70. The area opened for development alone would ustify the expense but it also allows traffic from some				
audrants the opportunity for returning to 1-70 making right turns only, which should take some pressure off at Janice Avenue.				
Also, in the short term, they provide excellent detour routes for exiting left turn traffic while work is underway in the area of the	Thank you for your comments. We value your input and will use it while considering options as this			online web
existing bridge.	important project develops.	Dean Fry	ddfryccc@gmail.com	forum
My concern is that the change would make it very difficult or impossible to use this interchange for OVERSIZE LOADS which utilize it	Thank you for your comments. We value your input and will use it while considering options as this	,	,	online web
daily. I would vote NO for this project at this location. Thanks for the opportunity to comment.	important project develops.	James Lammers	diversetransit@yahoo.com	forum
The Kingdom City overpass has been an ongoing problem for years. MODOT is constantly having to update the concrete because it			·	
settles and makes things very rough going over the overpasses and using the turn lanes. Whatever improvements are made,	Thank you for your comments. We value your input and will use it while considering options as this			online web
improvements to the deck of the overpasses need to be taken into consideration.	important project develops.	Doyle Swiney	djpes1986@gmail.com	forum
First and foremost, I support your proposal for this intersection. Safety and traffic flow are certainly key factors to this				
improvement. I am a former County Commissioner for Callaway County for 12 years (2005-2016) and this intersection has been a				
safety concern for many years. I am also a board member of the Missouri Firefighters Memorial Foundation located on the				
northwest corner of the intersection right next to Kingdom City City Hall. Alternative proposals and studies over the years to				
relocate the intersection and by-pas the businesses were never well received because of the negative impact on local businesses. A	۱.			
proposed cloverleaf interchange was also not well received because of limited space and several businesses (including the				
firefighter memorial built in 2000) would have to be relocated. After reviewing this proposal, it seems very reasonable and well				
thought out creating less disruptions to existing businesses. Although I have never fully understood all the advantages of the				
diamond interchange, it seems a sensible solution for this intersection. (I am very familiar with the intersection in Columbia at				
Stadium Blvd and I-70) I believe the extensions of the on/off ramps of I-70 in both east and west directions will also be very				
beneficial to holding more cars and especially big trucks will be helpful and not create the backlog now experienced. The railroad				
bridge over I-70 should probably be removed as I do not see this ever being used again, but I suspect the current owner has a				
problem with that. As long as the ramps can be extended under this bridge, I see no problem with leaving it. The curve coming				
from the west on I-70 is also another limiting factor but there is room for the ramp extension as it is. Thank you for your diligent	Thank you for your comments. We value your input and will use it while considering options as this			online web
work on this study and careful consideration to multiple options. This appears to be the best solution.	important project develops.	Donald 'Doc' Kritzer	doc_kritzer@yahoo.com	forum
	Thank you for your comments. We value your input. In reference to the DCMI interchange design, the DCM	I		
	type of interchange would require the construction of 2 additional bridges and much more additional			
	pavement approaching these bridges. The traffic study has analyzed the current and tuture 2045 traffic and	2		
	the study has shown that the Diverging Diamond interchange (DDI) and additional ramp/intersections			
	enhancements will provide significant improvements for current and future 2045 conditions, we have seen			
	success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the			
	same results at this intersection. One important consideration of this project is cost enectiveness, we			
	chose to examine solutions that du not require major impacts to the bruge of a total bruge replacement,			
	istorshapes. While we understand the desire to do more and make more substantial changes, we have to			
	consider the financial realities that we face as the seventh largest state system in the nation. Our			
This will make traffic flow on 54 through area worse and more dependent on stonlights. Please consider a Double Crossover	transportation peeds far outweigh available transportation funding, so in each project that we develop			online web
Magning laterchange (DCMI) of hotes - non-traffic light dependent flow. They want the second of the base of the second se	we're focused to provide cost effective solutions	Philip Tweedy	doctweedv@mail.com	forum
mer sing intertaininge (seem) for better, non traine light dependent now. Thank you.	Thank you for your comments. We value your input. We understand this is a significant change and it will	Timp Tweedy	doctweedy@mail.com	iorum
	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
I honestly think it is a waste. That money could be better used towards the I-70 /63 interchange in Columbia that is honestly ALOT	Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please	5		
worse than the kingdom city interchange, I've seen more accidents, traffics, and back up at the 63 interchange than the kingdom	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri			online web
city interchange.	Department of Transportation (modot.org)	Breanna Yelvington	durrett14@gmail.com	forum
			-	

I think implementing the preferred colution will improve the cituation. Luce the campa to of from the East probably 20 times a year				
and never have had a real problem with them, though I sometimes have had to sit through two or more light changes when exiting				
the interstate before I could make a left turn at the top of the ramp.				
You cannot fix the most frequent problem I have encountered and that is being behind a driver entering the Interstate who does not understand that the purpose of the entrance ramp is to gain speed so that at the bottom of the ramp, you can enter the Interstate at the appropriate speed so as to avoid stopping at the bottom of the ramp, or pulling on to the Interstate at a much slower rate of speed than the Interstate traffic you are pulling in front of. Let me know when you figure out how to make sure				
every driver entering the Interstate understand how to properly use the entrance ramp. Perhaps the longer ramps will help some,				online web
but I'm betting I'll still encounter ignorance from some drivers (almost always passenger car drivers, not truck drivers).	Thank you for your comments. We value your input and appreciate the positive feedback.	E. C. Walker	ealker@aol.com	forum
Opposed. Diverging Diamond has it's benefit, however, this design is confusing. I have encountered in Columbia and Springfield and dislike them. Kingdom City being on the interstate has travelers from all parts of the country as you know, some who may	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri	2		online web
have never seen this designhope they are not the first car in the lineup at the stop light.	Department of Transportation (modot.org)	Elaine Meller	ecmeller@gmail.com	forum
I think this will improve the kingdom city interchange and make it much safer!! Great job!!	Thank you for your comments. We value your input and appreciate the positive feedback.	Julie Edwards	edwardsjuliekay@yahoo.com	forum
The changes at Janice Ave. will not improve the function of that intersection greatly. Even if two Southbound trucks could go side b side, they won't do it. Their destinations are all on the left once making the turn, and so that would be a waste. The usage of the lanes will be unbalanced still even if the turning radius are improved. The access points on Janice need to be reduced or controlled better to allow the southbound traffic to properly enter Janice Ave. The additional northbound through lane will help as long as there is advanced notice of how to use the lanes. This project has been needed for a while, and I am glad to see that it is potentially moving forward.	Thank you for your comments. We value your input and will use it while considering options as this important project develops.	Richard	elakers17@yahoo.com	online web forum
	Thank you for your comments. We value your input. We understand this is a significant change and it will			
	Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please	2		
I think this is a horrible idea and is going to make everything 10x worst than they already are. Maybe invest the money into fixing	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri		Fieldstreeservicemo@gmail.co	online web
the roads not making upgrades to the overpasses. I would like to weigh in on two things that are most important to me since Luse 54 on average 2.5 times a month since Luse to St	Department of Transportation (modot.org) Thank you for your comments. We value your input and will use it while considering options as this	Taylor Fields	m	forum
Louis:	important project develops.	Colleen Foster	foster65102@gmail.com	forum
I approve and support MoDOT's I-70/ROUTE 54 KINGDOM CITY INTERCHANGE Project. The aspect that I love about MoDOT's I- 70/Route 54 Kingdom City Interchange Project is that the existing I-70/IIS 54 Interchange will be replaced with a Diverging Diamond				online web
Interchange (DDI) which will improve safety, reduce congestion, and reduce the number of intersection conflict points.	Thank you for your comments. We value your input and appreciate the positive feedback.	Jackson Hurst	ghostlightmater@yahoo.com	forum
Looks good but I use these off ramps for my breaks and my 10 hr rest when the truck stops are full. I run oversized and over weight				
you can't go straight through to get back on 70. It's getting harder and harder to find a spot wide enough to fit in when you want to run your full hours. Thanks for listening	Thank you for your comments. We value your input and will use it while considering options as this important project develops	Homer Moore	homermoore68@vahoo.com	online web
Looks very well thought out and likely to improve traffic flow, especially for professionals and locals who become accustomed to it.		Homer Woore	nomermooreos@yanoo.com	Iorum
like these designs where i have encountered them, at Festus and Farmington. However, first encounters for olders like me may be slightly challenging. I suggest some very simple 'you are here' type graphical guide signage could be deployed to help. Also, urge that turning large hungestrained hungh are merely be a porcible in glotton are may ad so tignade. These are a many advectioned and the second se				
new truckers, many it seems have much difficulty navigating spaces that may be (barely)adequate; eg the double circles on m13 at	Thank you for your comments. We value your input on the signage and curb placement and will use it while	1		online web
Warrensburg. All in all, appears to be a very good strategy and this design will help.	considering options as this important project develops.	Joseph Hughes	hughes1948@protonmail.com	forum
I believe that the Kingdom City interchange flows well and is not in need of change as some other interchanges. I would like to see	Thank you for your comments. We value your input and will use it while considering options as this	John Colore	i and an animal of the second	online web
I think this is a great idea. If I could offer 1 suggestion. Make the lanes wide enough for the Semi's to comfortably navigate. At exit	Thank you for your comments. We value your input and will use it while considering options as this	John Gaines	j_andrew_gaines@yanoo.com	online web
28, the diamond there often has truck drivers at or over the lines, particularly Southbound from I-70.	important project develops.	Jack Beard	JBeardJr@gmail.com	forum
I believe I understand most all the concerns, thoughts and issues here, including the cost element of such a project. I believe the proposed alternative will help, but it will not alleviate the problem. With all the stop lights and the slower speed of the heavy truck starting and stopping, and the coordination of all the lights at these various intersections. I think we will see negligible results.	Thank you for your comments. We value your input. The goal of the current study is to improve safety and mobility through the corridor by reducing crashes and peak period congestion. Additional considerations include cost effectiveness, right of way and utility impacts, roadway characteristics, and environmental factors. Our study found that the Diverging Diamond Interchange (DDI) and additional intersection/ramp enhancements will provide significant improvements for current and future conditions. One important s consideration of this project is cost effectiveness. We chose to examine solutions that did not require major impacts to the bridge or a total bridge replacement, to provide for the most economical solution that	r.		
Frankly, for 2 intersecting major interstate highways with the traffic they carry, this seems like all we are trying to do is put a band-	addresses the congestion and safety concerns at the interchange. While we understand the desire to do			
aid on a major problem. Even the intersection at I-70 and Hwy 65 keeps traffic moving, yet we fail to address the critical problem at	more and make more substantial changes, we have to consider the financial realities that we face as the			
this major intersection. This solution is nothing better than that recently constructed at the intersection of South I-55 at Cape Girardeau's Kings Highway.	seventh largest state system in the nation. Our transportation needs far outweigh available transportation funding, so in each project that we develop, we're focused to provide cost effective solutions.	leff Green	ieff@cgblaw.net	online web forum
	Thank you for your comments. We value your input. Our traffic study found that the Diverging Diamond			
	Interchange and additional intersection/ramp enhancements will provide significant improvements for			
I am not sure that the two lanes of traffic going across the bridge are going to be enough. Especially if the growth at the lake continues.	current and tuture conditions. The improved traffic flow due to the DDI layout will ensure that the existing bridge widths will be sufficient now and in the future 2045 design year	Jennifer Beckman	ienpp917@startmail.com	online web forum
I actually came here planning to recommend the DDI approach to the interchange (it's worked to splendid effect at the 1-		contract becamen	jengestre startman.com	online web
70/Stadium interchange in Columbia), and was both surprised and happy to see that it's already the preferred option. :)	Thank you for your comments. We value your input and appreciate the positive feedback.	Jessica Orsini	jessilaurn@gmail.com	forum

I seen the video with the proposed changes to the 70/54 interchange and I do not see how it speeds up at all folks trying to come	Thank you for your comments. We value your input. We understand this is a significant change and it will			
from St. Louis to the Lake of the Ozarks. You might as well leave the interchange the way that it is with no changes and save the	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
money. I proposed an over pass that would divert interested traffic going from 70 west bound to 54 south bound, so you would no	t Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please	2		
have to be stopped at all at this interchange. The same thing would happen going 54 north to the interchange and taking hwy 70	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri			online web
East. This would make things much safer and eliminate the bottle neck of this interchange.	Department of Transportation (modot.org)	Jim Luley	jim.luley@gmail.com	forum
I seen the video with the proposed changes to the 70/54 interchange and I do not see how it speeds up at all folks trying to come	Thank you for your comments. We value your input. We understand this is a significant change and it will			
from St. Louis to the Lake of the Ozarks. You might as well leave the interchange the way that it is with no changes and save the	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
money. I proposed an over pass that would divert interested traffic going from 70 west bound to 54 south bound, so you would no	t Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please	2		
have to be stopped at all at this interchange. The same thing would happen going 54 north to the interchange and taking hwy 70	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri			online web
East. This would make things much safer and eliminate the bottle neck of this interchange.	Department of Transportation (modot.org)	Kathleen Luley	Jim.luley@gmail.com	forum
				online web
The diverging diamond would be great. I drive this route 2 times a day.	Thank you for your comments. We value your input and appreciate the positive feedback.	Jeff Kline	jklinephd@gmail.com	forum
			joeroeger@firsttitleinsurance.c	online web
MODOT's preferred project is acceptable to me.	Thank you for your comments. We value your input and we appreciate the positive feedback.	Joseph A Roeger	om	forum
	Thank you for your comments. We value your input. The goal of the current study is to improve safety and			
	mobility through the corridor by reducing crashes and peak period congestion. Additional considerations			
	include cost effectiveness, right of way and utility impacts, roadway characteristics, and environmental			
Both Concepts are horrible ideas. I would like to take the engineers and have them drive an 18 wheeler through the intersections a	t factors. Our study found that the Diverging Diamond Interchange (DDI) and additional intersection/ramp			
63 and Rt H in Boone County or the intersection at 740 and Rt E/N Stadium in Columbia, at 7:30am, noon and 4:30pm of a weekda	y. enhancements will provide significant improvements for current and future 2045 conditions. One important	t		
I understand that you've modeled this on a computer, but in a practical application it is truly bad. At 54/70 you cannot get a round	consideration of this project is cost effectiveness. We chose to examine solutions that did not require major	r		
about large enough for the volume of trucks. The diverging concept only delays the inevitable. You did it right in Springfield at	impacts to the bridge or a total bridge replacement, to provide for the most economical solution that			
65/44, THANK YOU! Let's get it right here, start now before the area grows too much. We complain because what you do doesn't	addresses the congestion and safety concerns at the interchange. While we understand the desire to do			
really solve the problem or allow for future expansion, and I know money is short. The public would trust MoDot more if you would	d more and make more substantial changes, we have to consider the financial realities that we face as the			
get it right, would support your plans more, FUND more projects if you just start getting problems solved in that common sense wa	y seventh largest state system in the nation. Our transportation needs far outweigh available transportation			online web
that hard headed Missourians believe in. Don't do this, go back, take a breath, suck it up and do what needs to be done.	funding, so in each project that we develop, we're focused to provide cost effective solutions.	Jerry Rosslan	jrosslan@hotmail.com	forum
The proposals for Janice and Dunn Streets are very disappointing because the continued existence of traffic lights means continued				
delays and dangerous intersections. It would seem to me that the addition of relatively short sections of outer roads with exit ramp	S			
for right turns into business areas would enable much of the traffic into those areas, bypassing the stop lights and reducing traffic				
light time and delays at the lights. It might cost more, but it would be a better, perhaps safer solution for drivers. The proposed				
solution. If I understand the very limited description offered, does not seem to do this. Lunderstand the need to meet cost-benefit.				
but as can be seen by those of us who drive US 50 where it intersects highway 5 pear Syracuse. MO, the MODOT improvement may				
have been cost-heneficial and improved the intersection some but it still has a great deal of visual blockage as you approach the				
intersection experially from the west A little more funding to remove the huma in the approach to the intersection while the				
intersection, especially now new set A much more going as yould have made a tremendour safety difference to what now	Thank you for your comments. We value your input and will use it while considering options as this			online web
upprove was under way, especially not the west going east, would not made a difference of unterence to what now continues to be a highly dangerous intersection. Hone you will consider lance and humn streets a hit more. Thank you l	important project develops	Stevens Scrivner	irscrivper@outlook.com	forum
continues to be a inginy dangerous intersection. Hope you will consider same and barriet et as a bettiore. Thank you	important project develops.	Stevens Service	Jischnick@outlook.com	online web
The double diverging lanes work well 1 am in favor	Thank you for your comments. We value your input and appreciate the positive feedback	leffrey T Shaw	itshaw220@vahoo.com	forum
The abasise video with the proposed changes to the 70/54 interchange and I do not see how it speeds up at all folks trying to come	Thank you for your comments. We value your input. We understand this is a significant change and it will	seniey i shan	Johan 220@ Janooleoni	Tortuin
from St. Jouis to the Jake of the Ozarks. You might as well leave the interchange the way that it is with no changes and save the	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
money. Lorenced an over nass that would divert interested traffic going from 70 west bound to 54 south bound so you would no	t Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please			
have to be stonged at all at this interchange. The same thing would happen going 54 north to the interchange and taking how 70	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri	-		online web
East. This would make things much congress the same time, while he hatte note of this interchange.	Department of Transportation (model org)	Kathloon Lulov	Kathlaan lulay@gmail.com	forum
East. This would make things much safer and eliminate the bottle field of this interchange.	Thank you for your commente, We yolue your input. We understand this is a significant change and it will	Ratilleen Luley	Kathleen.luley@gmail.com	Iorum
Late this whole area and luckily denotifient have to use it often. Lean see where this kind of intersection would work better, but do	take time for many to adjust to the new traffic format. We have seen success with the Diversion Diamond			
indee this whole area and locking upide. That's to use it often, if can see where this kind of intersection would work better, but do	lake time for many to aujust to the new traint format. We have seen success with the Diverging Diamond			
enough diversion of what to expect with these intermole encountering the one in springhead, had never heard of this kind of	a follow this link for more information about a DDI interchange. Diamond Type Interchange I Minerysi	-		onlingwah
timing and it was really disorrenting. Editing washate it driving, because it probably would have been so comused it would have made	Department of Transportation (model org)	Kathy	kathybill70@icloud.com	forum
a inistake, timiking i nau inisulitetstuod the signate.	Department of mansportation (modot.org)	Nauly	Katiyilli/U@Icioud.com	iorum
As someone who uses the 70/34 intersection every day i would be glad if some improvements were made there. It would seen to				
The unare a design for better traine now would be having two exits on both the west and East bound lanes. Exit 1488 and Exit 1488.				
That way trainic could yieldy interge without trainic lights, i, or course, don't know what a project like that would cost or if it would	The share for the second se		havin Olinadar hulldis and	a
worktriat's just trings you think about when sitting in a long line of traffic waiting for the light to turn green :) It would at least be	mank you for your comments, we value your input and will use it while considering options as this	Kauda Caluarah	kevin@kingdombuildingsupply.	c online web
nice to see it as an option on the PDF presentation.	important project develops.	Kevin Schrock	om	torum

Thank you for allowing public comment on the proposed solutions to 54/70 at Kingdom City. Kingdom City is an integral part of the economic vibrancy of Callaway County, so it's important to make improvements to traffic arteries that a) preserve existing businesses, b) enable future business development, and c) improve safety for all travelers, whether local or travelers passing through. Because of the traffic flow and high volumes in today's configuration, people divert to other routes which are not designed for higher traffic counts and are less efficient. As a leader in our community through my position as President/CEO of The Callaway Bank headquartered in Callaway County, and through my service on the boards of the Fulton Area Development Foundation and the Callaway Chamber of Commerce, I have the unique opportunity to engage in economic development considerations and possibilities in our region. I recognize and endorse the importance of Kingdom City, and I feel its challenges every day. Kingdom City is poised to contribute to our State's economic health but its traffic flow is holding it back. I appreciate the thought that was put into choosing the Preferred Options, and I agree with them. As a frequent user of the interchange, I do have a few observations: 1) the westbound ramp from I-70 onto 54 is not long enough. I very much appreciate lengthening all the ramps, but this ramp in particular needs to be longer to accommodate St Louis traffic to the Lake of the Ozarks. It's very dangerous if any exiting traffic cannot move over into an exit lane, and I've observed traffic backed up further than the proposed ramp. 2) the intersection of County Road 211 with 54 is also very dangerous and should receive attention. A. slightly lengthen the left turn lane for northbound traffic on 54 turning left onto 211, to allow turning traffic to get out of traffic flow and slow more gradually. B. construct a short entry lane for traffic turning from 211 onto southbound 54. Because of the topology, traffic enterin 54 from 21	с ,			
Thank you for listening to our input. We truly appreciate the possibility of improvements almost anything would be better than the current status guol. Road improvements would allow Kingdom City to expand housing and attract other economic development				
and I believe the economic impact of expanded business, sales tax, and property taxes would return the cost of this investment to	Thank you for your comments. We value your input and will use it while considering options as this			online web
the State of Missouri many times over. It just makes sense.	important project develops.	Kimberly Barnes	kim.barnes@callawaybank.com	forum
The diverging diamond interchange at Kingdom City is not a good idea. Hundreds of large trucks use this intersection daily. Many are foreigners and this will confuse them. It is already a high accident area and this will not help that fact. Better synchronization of the existing signal lights would be the bust option. Please reconsider this proposal. Thank you, Marc Catalina	Thank you for your comments. We value your input and will use it while considering options as this important project develops.	Marc Catalina	kmbentlage@yahoo.com	online web forum
If y'all are going to do this please for the love of god make the corners big enough for semis. And not just regular fleet trucks.	Thank you for your comments. We value your input and will use it while considering options as this important project develops.	Koith	keninar@gmail.com	online web
	Thank you for your comments. We value your input. The traffic study has analyzed the current and future 2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional ramp/intersections enhancements will provide significant improvements for current and future 2045 conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across			
Please reconsider the preferred modifications to the I70 and 54 interchange. I would prefer the double roundabouts because I hate the diamond configuration at Stadium in Columbia. Very confusing. Especially to newcomers to the area. Doesn't seem to have solved any traffic issues at Stadium.	the state and expect the same results at this intersection. If you are interested to learn more about a DDI interchange, please follow this link. <u>Diamond-Type Interchanges Missouri Department of Transportation</u> (modot.org)	LEOLA LYNNETTE BAILEY	leolabailey123@gmail.com	online web forum
Please no!! These are so complicated, just my opinion. Everything works fine the way it is and traffic flows accordingly. I can't tell	Thank you for your comments. We value your input. We understand this is a significant change and it will take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri Diverging Diamond target the same follow the same formation (The Section 2014) and the same formation (The Section 2014) and the same follow the same formation (The Section 2014) and the same formation (The Section 2014) and the same follow the same formation (The Section 2014) and the same formation (The Section 2014) and the same formation (The Section 2014) and the same follow the same formation (The Section 2014) and the same follow the same formation (The Section 2014) and the same follow the same follow the same formation (The Section 2014) and the same follow the same follow the same follow the same formation (The Section 2014) and the same follow the same follow the same formation (The Section 2014) and the same follow the same	e Mistu lune	Invite 20 Quancil com	online web
you now many times i ve seen these almost cause more accidents	Thank you for your comments. We value your input. The traffic study has analyzed the current and future	IVIISTY LYNN	Irmisty89@gmail.com	forum
Myself and my company (Twisted Farms LLC) highly disagree with the plan for a diamond interchange in Kingdom City. The diamonds elsewhere are a mess. The interchange is perfectly fine how it is. This project is not worth the money they are wanting to	2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional ramp/intersections enhancements will provide significant improvements for current and future 2045 conditions. We have seen success with the Diverging Diamond Interchange (DDI) and robust locations across the state and expect the same results at this intersection. If you are interested to learn more about a DDI interchange, please follow this link. Diamond-Type Interchanges Missouri Department of Transportation.			online web
spend on it. Definitely against modifying the interchange.	(modot.org)	Maria Kingsbury	maria.twistedfarms@gmail.com	n forum
Is there any thought around expanding Janice Ave into the outer road connecting over to HH? Making that a REAL outer road? Please? Additional thoughts: * Janice Ave on the west side is where a LOT of trucks park & eat - and tends to be a MESS, particularly the road that runs back and later connects to that cross-over on 54 - I've seen more than a few accidents or NEAR accidents there. * I wonder if that outer road on the west side of 70 should be part of the consideration/change? E.g. moving Janice road & the lights down there, allowing more long term improvement of the area? * There are a number of new electric charging stations. Expansion of access to these would probably be super useful in the long term. (Currently behind a gas station)				
A characterize is that coming onco west Jamee, there are equal amounts of characterize to the two gas stations and the McDonalds. If the 18-wheelers could handle it, what about a round-about vs. stop sign there? Ideally it'd be nice if Janice ave extended farther back to allow more business growth (aka this area seems ripe for additional growth of things like a Dollar General or similar store.)	Thank you for your comments. We value your input and will use it while considering options as this important project develops.	Jason McIntosh	mcintoshj@gmail.com	online web forum
t used to be the general manager of the McDonald's in Kingdom city. I worked there over 12 years. I think the proposed changes to the Janice road area are definitely a must. Cars and trucks cannot turn into or out of McDonald's, Gaspers or fast lane and it backs up to ozark lane. The Diamond interchange will be great, but not going to solve the traffic issues by itself.	Thank you for your comments. We value your input and will use it while considering options as this important project develops.	Ryan Lynn	mclynnr@gmail.com	online web forum

	Thank you for your comments. We value your input. The traffic study has analyzed the current and future			
	2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional			
	ramp/intersections enhancements will provide significant improvements for current and future 2045			
I hate roundabouts and feel diamond interchanges are more confusing then helpful, especially when exiting the highway. Longer o	n conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across			
ramps would be helpful. Widening the intersection and better lane markings at the truck stops would go a long way in improving	the state and expect the same results at this intersection. If you are interested to learn more about a DDI			
traffic flow. I've never found this intersection to be dangerous. It's only weekends in the summer that causes huge backups due to	interchange, please follow this link. <u>Diamond-Type Interchanges</u> Missouri Department of Transportation			online web
all the Lake traffic headed back to St Louis. Maybe lowering the speed between Fulton and Kingdom City would help too.	(modot.org)	Michele Krueger	micheleleann@hotmail.com	forum
	Thank you for your comments. We value your input. You were asking about placing a directional			
	interchange design at this location. This type of interchange with fly-over ramps would require construction			
	of 2 additional bridges and much more additional pavement approaching these bridges. The project would			
	have a much higher construction cost and increased amount of right of way acquisition. The traffic study			
	has analyzed the current and future 2045 traffic and the study has shown that the Diverging Diamond			
	Interchange (DDI) and additional ramp/intersections enhancements will provide significant improvements			
	for current and future 2045 conditions. We have seen success with the Diverging Diamond Interchange			
	(DDI) at other locations across the state and expect the same results at this intersection. One important			
	consideration of this project is cost effectiveness. We chose to examine solutions that did not require major	r		
	impacts to the bridge or a total bridge replacement, to provide for the most economical solution that			
Good morning,	addresses the congestion and safety concerns at the interchange. While we understand the desire to do			
This isn't a bad idea, but it would be very nice to somehow add a flyover lane for WB70 to SB54 to avoid the 3 lights right there.	more and make more substantial changes, we have to consider the financial realities that we face as the			
That would make a constant traffic flow for St. Louis people going to the lake. I know that would bring a great deal more expense,	seventh largest state system in the nation. Our transportation needs far outweigh available transportation			online web
but more people than ever are going down there, and it will only get worse in the years to come. Thank you very much.	funding, so in each project that we develop, we're focused to provide cost effective solutions.	Mike McAlone	micher17@yahoo.com	forum
	Thank you for your comments. We value your input. The goal of the current study is to improve safety and			
	mobility through the corridor by reducing crashes and peak period congestion. Additional considerations			
	include cost effectiveness, right of way and utility impacts, roadway characteristics, and environmental			
I feel like the major part of the congestion are the cars and especially trucks using services located in Kingdom City. I think a	factors. Our study found that the Diverging Diamond Interchange (DDI) and additional intersection/ramp			
dedicated ramps from 70 to southbound 54 and dedicated ramps from northbound 54 to East and Westbound 70 without any	enhancements will provide significant improvements for current and future 2045 conditions. One importan	t		
stoplights would be a huge improvement. These lanes could easily be added before or after the current 54 interchange. Yes, this	consideration of this project is cost effectiveness. We chose to examine solutions that did not require major	r		
would probably have a negative impact on the businesses in Kingdom City, but so did the highway 54 improvements in Lake Ozark	impacts to the bridge or a total bridge replacement, to provide for the most economical solution that			
through Camdenton. These are two very busy highways, any intersections connecting the two should not have any turn signals.	addresses the congestion and safety concerns at the interchange. While we understand the desire to do			
Thanks for your time.	more and make more substantial changes, we have to consider the financial realities that we face as the			
	seventh largest state system in the nation. Our transportation needs far outweigh available transportation			online web
Mike Heiligenstein	funding, so in each project that we develop, we're focused to provide cost effective solutions.	Mike Heiligenstein	mjstein 1969@gmail.com	forum
	Thank you for your comments. We value your input. I would like to address your suggestion for "fly-over"			
	ramps in a full or partial directional type interchange at this location. That option was not considered due to)		
	its much higher construction/right of way costs compared to the alternatives studied. The traffic, safety and	1		
	operations study found that the Diverging Diamond Interchange (DDI) and additional intersection/ramp			
	enhancements will provide significant improvements for current and future 2045 conditions. One importan	t		
	consideration of this project is cost effectiveness. We chose to examine solutions that did not require major	r		
	impacts to the bridge or a total bridge replacement, to provide for the most economical solution that			
	addresses the congestion and safety concerns at the interchange. While we understand the desire to do			
	more and make more substantial changes, we have to consider the financial realities that we face as the			
Awesome way to utilize the movement of crossover traffic with minimum distractions, BUT why not just 2 fly over for st louis	seventh largest state system in the nation. Our transportation needs far outweigh available transportation			online web
southbound traffic and 1 going north to Mexico	funding, so in each project that we develop, we're focused to provide cost effective solutions.	mike	Mlhaake@hotmail.com	forum
Each preferred proposal looks so much safer. My family basically lives at this interchange & I love these new proposals to make it	These years for your commonts. We value your janut and encoded the positive for these	Maniaua Cala	maniquadaala@aal.aam	online web
	Thank you for your comments, we value your input and appreciate the positive reedback.	wonique cole	moniquedcole@aoi.com	Torum
	Participation of the study has a study has a study of the transcription of the transcription of the study has a st			
	2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional			
	ramp/intersections enhancements will provide significant improvements for current and future 2045			
lfunn an an the de an this statistic interchange, usuand to de constitue shout the uniture of traffic through his adam site. Durin	conditions, we have seen success with the Diverging Diamond interchange (DDI) at other locations across			
n your going to do anything at this interchange, you need to do somerning about the volume of trainc through kingdom city. During	interstered and expect the same results at this intersection. If you are interested to learn more about a DDI			ممانمه ببيمام
nonday weekends of summer weekends there is not enough now of trant to accommodate the volume of venicles. The ramps into	(modet erg)	Matt	mrhuwcor@gmoil.com	forum
At need to have more access and the intersection is not the issue.	Thank you for your commonts. We yoly a your input and will use it while considering entions as this	Widtt	minuysei@gmail.com	online web
trumine extending the oriand orienting is a must. Exit a oni read in sport in signal example or trant now compared to what it was before the interchance improvements. It is close to example 3 of the study.	important project develops	michael wright	mwright@cei-hwli.com	forum
concerne interentinge improvements, it is close to example 5 of the study	Thank you for your comments. We value your input. The traffic study has analyzed the current and future	mender wright	inwight@cci itwi.com	Iorum
While I wholeheartedly agree that the Kingdom City interchange needs improvement and safely undates. I urge you to do	2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional			
something other than the diverging diamond. I can't tell you the number of people who refuse to use the interchange at I-70 and	ramp/intersections enhancements will provide significant improvements for current and future 2045			
Stadium in Columbia because they feel they are going against the flow of traffic and are extremely uncomfortable with that feeling.	conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across			
I'm sure the people who use that interchange daily have become comfortable with it. but people who only come to Columbia on a	the state and expect the same results at this intersection. If you are interested to learn more about a DDI			
limited basis, hate it and will either avoid it or have simply refused to go to the Columbia Mall or other places on Stadium. Isn't	interchange, please follow this link. Diamond-Type Interchanges Missouri Department of Transportation			online web
there are a there also reacting 22	(model org)	Nancy Lowis	papeuklow12@gmail.com	6
there some other alternativer?	(ווטעטנ.טוצ)	INDICY LEWIS	Hallcyklew15(@gillall.com	forum

	Thank you for your comments. We value your input. The traffic study has analyzed the current and future			
	2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional			
	ramp/intersections enhancements will provide significant improvements for current and future 2045			
I drive this interchange twice a day, 5 days a week, and I do not support changing this interchange to a diverging diamond. I have	conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across			
never seen this intersection have major traffic issues even on high travel weeks like memorial day weekend. The costs needed to	the state and expect the same results at this intersection. If you are interested to learn more about a DDI			
change this interchange do not seem justified. There are many other projects much more urgent that could use the money that	interchange, please follow this link. <u>Diamond-Type Interchanges</u> <u>Missouri Department of Transportation</u>			online web
would be devoted to this project.	(modot.org)	Patricia Carr	patriciacarr0145@gmail.com	forum
We travel frequently on 54 West through the interchange 70 and 1 am in agreement to the proposal of the alternative improved interaction the life the same field field field for the same field and a field and the same field field field and the same field field field field field field and the same field f	The share for a second state of the second state of a second state of the second state	D		online web
Interchange. I believe this will be very beneficial for ruture traffic and safety.	I hank you for your comments. We value your input and appreciate the positive feedback.	Peggy Cooney	queentute@aoi.com	forum
Leave the intersection alone, it works pretty well as it is. I have been in the trucking obsiness for hearly so years made many stops at this intersection. Blosse send our personal the personal data and the personal data and the personal data and so years in the personal data and the	Thank you for your commonts. We value your input and will use it while considering entions as this			opling woh
at this intersection. Prease spend out money where it is interacted the most, the solution where it is interacted to the most, the solution of the many places are temple in my	important project develops	James Colvin	rafteriackranch@gmail.com	forum
equipment was in as bad shape as 170 is in places I would be med and put out or service:	important project develops.	James Colvin	Tarterjackranch@gmail.com	online web
The DDI the best. Could still have backup entering Gaspers and Fastlane.	Thank you for your comments. We value your input and appreciate the positive feedback.	Ron Atkinson	ratkinson@ktis.net	forum
I am a business owner at lake of the Ozarks and often use this interchange. I think the proposed interchange redesign is	Thank you for your comments. We value your input and will use it while considering options as this		redbuddevelopment@gmail.co	online web
acceptable. Thank you for working on this.	important project develops.	Mark Dickey	m	forum
I am a local farmer and move farm machinery through Kingdom City regularly. We used to be able to avoid the railroad bridge next		•		
to the post office by crossing 54 at McCredie. Now that you removed the ability to cross 54 at McCredie we are forced to travel				
from McCredie west on 54 to the stop light at old US40 to continue east. When we do this we have to change lanes with over width	I Construction of the second			
equipment that we can't see behind and traffic is usually travelling at a high rate of speed coming down the hill on a blind curve.				
The rail line has been out of service for over 10 years. The tracks are asphalted over in Auxvasse and Fulton. The rail line needs to	Thank you for your comments. We value your input. We have been in contact with the owner of the railroad	d		
be removed including the two bridges in Kingdom City. I think there is a law that requires abandoned tracks to be removed after a	line and we are working to negotiate for an easement in order to build the ramp extension under the			
certain period of time. Removing the bridges would make the new on and off I70 ramp projects a lot cheaper and safer. Also, the	existing railroad bridge. This current project does not have the budget needed to remove the bridge. If the			
bridge is a safety issue for tractor-trailers when there is a accident on the interstate. Numerous times semi's have hit the bridge or	interstate is improved in the future, MoDOT will take that opportunity to negotiate with the railroad owner			online web
caused a road block due to the 13'1" clearance.	to remove the bridge.	Brian Rhoades	rhoadesag@gmail.com	forum
Out of the proposed options I think the ddi would be the most effective. They're a little different and take some getting used to. But				
the safety advantages and better traffic flow is beyond worth it. My family was in a really bad car accident at this intersection years				online web
ago that I shouldn't have survived. I am really excited to see it being renovated.	Thank you for your comments. We value your input and we appreciate the positive feedback.	Patrick	rivercats498@gmail.com	forum
I travel Highway 54 5 days a week to go to work in Fulton. (I commute from Mexico.) I know that something needs to be done with	The structure for a second state of the structure to the state of state of state of the structure state of the str			
the 1-0/0554 interchange but personally am not convinced that a loverging diamond will make trainic how better on 0554.1 Ve	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
ariven the one in Columbia and to me it's one of the most admicut interchanges to havigate. Fortunately, I have the luxury of being	take time for many to adjust to the new traincrormat. We have seen success with the Diverging Diamond			
able to avoid that one. I will not have this luxury on my work commute. It seems like all the attention is being paid to what is best	interchange (DDI) at other locations across the state and expect the same results at this intersection. Please	2		
for 1.70 with little to only oppose for how there also also as will offert drivers on the high-use that will be effected by these design	fallow this list for more information about a DDI interchange. Discoord Type Interchanges Missouri			anlineah
for I-70 with little to any concern for how these changes will affect drivers on the highways that will be affected by these design	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri	Robocca Morgan	rmorgan 06@hotmail.com	online web
for I-70 with little to any concern for how these changes will affect drivers on the highways that will be affected by these design changes. I ganges in the through this interchange on US 54. When I'm heading couth (work to the Lake from Hannihal I'm almost always	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri Department of Transportation (modot.org)	Rebecca Morgan	rmorgan_06@hotmail.com	online web forum
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Tucker Prairie is located due west of the proposed construction area. Tucker Prairie is a 146-acre tract of virgin tall grass prairie. It				
has never been plowed, and thus represents one of the few instances of non-cultivated prairie left in the Midwest. It is estimated				
that less than 1% of the original tall grass prairie that once covered the central United States remains, thus making this ecosystem				
both rare and fragile. The prairie was designated a National Natural Landmark in 1978 and a State Natural Area in 1998. It is				
managed and maintained as a research and teaching prairie by the Division of Biological Sciences at the University of Missouri, with				
help from the Missouri Department of Conservation.				
The prairie is the site of a long-term fire-ecology study; it is the longest continuous fire ecology study of its kind and is currently in				
its 64th year.				
The rich, virgin soil of Tucker Prairie supports more than 250 species of plants adapted to this region over thousands of years.	Good morning and thank you for the comment regarding the Tucker Prairie Natural Area. The location of			
including about 70 families and 150 genera. Research suggests that the soil matrix is key to this diversity and is thus a reference plot	Tucker Prairie Natural Area is approximately 2.5 miles at the nearest point from the proposed road			
for studies within Missouri and across the United States	improvements at the LIS 54/I-70 interchange Any changes at the LIS 54/I-70 proposed will not alter runoff			
ion statues while wissoan and across the onice states.	onto the natural area and no equipment or heavy construction traffic should occur near the natural area			
The proposed project can disturb the prairie in terms of rup off and equipment use. Furthermore, if traffic is diverted in a way that	Also, all anticipated contractor operations such as apphalt or concrete paying will occur outside the area of			
me proposed project star and as an asset of the prane in terms of and and and a plant species. Refere making a final desiring on the	the natural area. Contractors may determine a need to set up a mobile plant to produce asphalt or			
would impact the area, this could be impaction to resident annual and plant species, before making a man decision of the	the natural area. Contractors may determine a need to set up a mobile plant to produce aspiral of			
parameters of the project, we ask that you seek whatever information you may need from the Division of Biological sciences and	Concrete to support project construction. Contractors will be notified of the location of the rucker Praine	Dr. David Cabula		forume
perform an impact study to ensure that this unique resource is maximally protected.	Natural Area and will be advised to avoid impacts to the property.	Dr. David Schulz	schulzd@missouri.edu	Torum
	Thank you for your comments. We value your input. You were asking about a cloverleaf interchange design.			
	The goal of the study was to identify a preferred alternative design for the interchange that improves safety			
	and mobility through the corridor, provides access to nearby businesses and promotes economic growth in			
	Kingdom City. We did not consider this design as an alternative because the cloverleaf ramp locations would	l		
	need to be in 2 to 4 corners of the interchange which would overlap with existing businesses in those			
	locations. Therefore this was not a reasonable alternative.			
	We understand the Diverging Diamond Interchange (DDI) design is a significant change and it will take time			
	for many to adjust to the new traffic format. We have seen success with the DDI at other locations across			
	the state and expect the same results at this intersection. If you are interested to learn more about a DDI			
Why is a cloverleaf design mot being considered if you are interested in moving traffic through efficiently and effectively? I see no	interchange, please follow this link. Diamond-Type Interchanges Missouri Department of Transportation			online web
impact to local businesses caused by this type of design. I sit at those lights at least 5-10 minutes every work day.	(modot.org)	Sue Bethmann	sebethmann@gmail.com	forum
I feel the diverging diamond is the better of the 2 options listed. Roundabouts and semi's don't usually work well and with all the				
truck stops in the area it is frequently used for large trucks. Many people don't understand or use a roundabout correctly which				
causes more confusion and accidents, the diverging diamond is closer to a normal interchange and from the appearance of what				online web
you have set up will provide the best flow keeping traffic moving instead of backing up causing other delays	Thank you for your many years of service to Missouri and the travelling public.	Shavon Barnett	shavonmb73@hotmail.com	forum
			-	
I agree that the proposed Diverging Diamond Interchange (DDI) would reduce accidents. I would like to add that I agree with this as				
long as traffic signals are kent for left turning vehicles when traffic is merging from the right.				
For example: The interchange at Mid Rivers Mall Drive (exiting in the east direction) currently faces a semi-truck at an angle to the				
left at the vield sign and nuts the traffic the semi-truck would be merging into at a right sided (behind) position in the blind sort of				
the contract (cleaner cab in particular). Since there is not a traffic light this makes the turn more designed in the approximation of the head of the contract of the contrac				
and some data (since for a semi-fruck. The truck can is not be north ride, of the intersection so adding a traffic light here would make				
protected refr turn for a senier duck. The duckstop is on the north side of the intersection so adding a tranc light here would make				
curring sale.				
Notification of the sense of th				
that must be accounted for in the turns around the roundabout. Depending on where the tandems are placed changes the space				
needed to make the curves safety without running over the curves in the center. Cars needen to this to bass semi-trucks in	There is the second particulate the second in the second will use it while considering antipue so this		shall@auralamanluutrusking as	
roundabouts because they do not understand the area needed to make the turns and do this in the blind spots of semi-trucks.	mank you for your comments, we value your input and will use it while considering options as this	Challes Haaldaa	shen@purplemonkeytrucking.co	5 online web
I would vote for the diverging diamond interchange with stopignts.	Important project develops.	Shelley Hopkins	m	Torum
	I nank you for your comments, we value your input, we understand this is a significant change and it will			
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	Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please			
	tollow this link for more information about a DDI interchange: <u>Diamond-Type Interchanges Missouri</u>			online web
I do not want a Diverging Diamond or Roundabout. I absolute dislike both ideas. Extend the entrance/exit lanes.	Department of Transportation (modot.org)	Sherry S Jenkins	sherrysue@ktis.net	forum
 I appreciate and respect the time, effort, and expertise that went into your conclusions and recommendations. 				
2. I'm not being argumentative, but I disagree with 3 of the stoplights you show. I'm on the fence about a fourth; the east 70 to				
north 54 stoplight. I understand your logic that you tell in the presentation but question the validity. I think that you are less				
confident in travelers' ability to merge than I am. I believe that the only necessary stoplights are the two where the north and south				
traffic cross each other.				
3. Another point I'd like to bring up is that there are two existing east 70 to south 54 lanes which are insufficient already. I'm sure				
that no one wants to spend the money to make it happen, but a flyover in that direction would alleviate a great deal of the	Thank you for your comments. We value your input and will use it while considering options as this			online web
congestion at this intersection. OR a third left turn lane.	important project develops.	Mike Atchley	smatch22@outlook.com	forum

	Thank you for your comments. We value your input. We understand this is a significant change and it will			
	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			
	Interchange (DDI) at other locations across the state and expect the same results at this intersection. Please			
	follow this link for more information about a DDI interchange: Diamond-Type Interchanges Missouri			online web
The diverging diamond interchange can look confusing. I imagine if you follow the signs, you can get where you are going.	Department of Transportation (modot.org)	Corey	smithcorey029@gmail.com	forum
	Thank you for your comments and we value your input. To answer your question, when narrowing down			
	alternatives for interchange types at this location, the single-point type interchange was removed from			
	possible alternatives because of the existing bridge which has 20-30 years of bridge life before it will need			
	to be replaced. We chose to examine solutions that did not require major impacts to the bridge or a total			
	bridge replacement, to provide for the most economical solution that addresses the congestion and safety			
	concerns at the interchange. Our study found that the Diverging Diamond Interchange (DDI) and additional			
Was a single point urban interchange considered here? Example in St. Louis area being Lindbergh and I-55. With the amount of	intersection/ramp enhancements will provide significant improvements for current and future conditions.			
truck traffic that goes thru this interchange, the diverging diamond provides for a lot of tight turns. The one in Columbia at the 70/	While we understand the desire to do more and make more substantial changes, we have to consider the			
Stadium interchange is excellent, but doesn't have anything close to the Tractor-Trailer traffic this interchange does. A diverging	financial realities that we face as the seventh largest state system in the nation. Our transportation needs			
diamond can be a confusing interchange, especially with a lot of out of state truck traffic. This solution could make this interchange	far outweigh available transportation funding, so in each project that we develop, we're focused to provide			online web
even more dangerous for passenger vehicles than it already is.	cost effective solutions.	Bruce S.	sniderbd@yahoo.com	forum
	Thank you for your comments. We value your input and will use it while considering options as this			online web
Seems like a ton of money to help a city that barely exists. Is traffic that bad?	important project develops.	Greg Rowoldt	st_gregory217@hotmail.com	forum
I really like the idea of extending the ramp on and off I-70. I think this will help a lot epically on people trying to exit onto 54. I also				
like the Janice road Idea of taking the current entrance to Shell out and moving it back. This should help a lot with people getting in				
and out of the parking lot. I notice this is an area that causes a lot of confusion for motorist. I am not sure about the diamond Idea,				
but I will learn and it is much better than the roundabout idea. My question to you is will you be widening the actual overpass to				
accommodate this? One of the issues currently is that the overpass is not wide enough and if you get farm equipment or an oversize	Thank you for your comments. We value your input and will use it while considering options as this			online web
load it is hard to get around them.	important project develops.	Stacie Smithee	staciesmithee@yahoo.com	forum
This proposal does not seem as though it will enhance the travel through kingdom city. I believe it would help travelers coming and				
going from interstate 70. As someone who takes 54 through kingdom city daily I would like to see improvements made to help				
passing through along 54 aswell. Something similar to the intersection of I-44 and 65 would benefit everyone. Something as simple				
as timing the stoplights to allow for traffic to flow from one end of town to the other without stopping at every light would greatly				
impact the daily commute. It can almost be guaranteed that if you catch one red light in kingdom city every light will be red the rest	Thank you for your comments. We value your input and will use it while considering options as this			online web
of the way through.	important project develops.	steven morris	steven.morris333@hotmail.com	forum
Learn from what other areas and countries have done. Use a single, multilane roundabout. My family have traveled and seen these				
ideas work far better than using any traffic signals. The Stadium interchange is a prime example of what not to do. Very confusing to	Thank you for your comments. We value your input. We understand this is a significant change and it will			
anyone not familar with the area or the entity which created the now defunct 'tri-level' in Jefferson City, which by the way needs	take time for many to adjust to the new traffic format. We have seen success with the Diverging Diamond			online web
replacement due to the large number of accidents there.	Interchange (DDI) at other locations across the state and expect the same results at this intersection.	robert carr	tech@ciltech.com	forum
	Thank you for your comments. We value your input. We do plan to extend the ramps as part of the project.			
	We also understand the DDI will be a significant change and it will take time for many to adjust to the new			
	traffic format. We have seen success with the Diverging Diamond Interchange (DDI) at other locations			
	across the state and expect the same results at this intersection. If you are interested to learn more about a	1		
	DDI interchange, please follow this link. <u>Diamond-Type Interchanges Missouri Department of</u>			online web
Diamonds and roundabouts should not be used. A better solution should be used, IE the proposed extended ramps	Transportation (modot.org).	Jason Schlesinger	tjschlesinger@centurytel.net	forum
	Thank you for your comments. We value your input. You were asking about placing a directional			
	interchange design at this location. This type of interchange with fly-over ramps would require construction			
	of 2 additional bridges and much more additional pavement approaching these bridges. The project would			
	have a much higher construction cost and increased amount of right of way acquisition. The traffic study			
	has analyzed the current and future 2045 traffic and the study has shown that the Diverging Diamond			
	Interchange (DDI) and additional ramp/intersections enhancements will provide significant improvements			
	for current and future 2045 conditions. We have seen success with the Diverging Diamond Interchange			
	(DDI) at other locations across the state and expect the same results at this intersection. One important			
	consideration of this project is cost effectiveness. We chose to examine solutions that did not require major			
	impacts to the bridge or a total bridge replacement, to provide for the most economical solution that			
Please reconsider this proposed solution to the traffic problem both now and in the future. The current proposal may work	addresses the congestion and safety concerns at the interchange. While we understand the desire to do			
elsewhere, but with the number of tractor trailers mixed with the lake traffic going through this intersection, traffic will still back up	more and make more substantial changes, we have to consider the financial realities that we face as the			
and it will not properly resolve the long term issues. I would rather see you take the time to create a high speed exit/entrance	seventh largest state system in the nation. Our transportation needs far outweigh available transportation			online web
system that would allow the traffic to flow freely yet still have the opportunity to exit if necessary to patronize the businesses.	funding, so in each project that we develop, we're focused to provide cost effective solutions.	Tom Slater	tjslater51@gmail.com	forum
	Thank you for your comments. We value your input. The traffic study has analyzed the current and future			
	2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional			
	ramp/intersections enhancements will provide significant improvements for current and future 2045			
	conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across			
What ever you do, please don't incorporate small roundabouts as they do nothing but slow down traffic during busy times. The only	the state and expect the same results at this intersection. If you are interested to learn more about a DDI			
	the state and expect the same results at this intersection. If you are interested to learn more about a DDI			
one that works is the Halls Ferry Circle in Baden, Mo because it's large enough to accommodate heavy traffic flow. I believe the best	interchange, please follow this link. <u>Diamond-Type Interchanges</u> <u>Missouri Department of Transportation</u>			online web

You still have 2 major highways congested with signal lights on Hwy 54. Don't spend any money on this location as it would be adequate for the vehicles that want to use this interchange if you move the flow-thru traffic away from the interchange that don't want to be there. That is, use the funds towards the proper flow of traffic by building a flowing interchange east of the present with no get offs. North of I-70 at the Auxvasse Creek/River, take Hwy 54 south to a flowing interchange with I-70 and extend Hwy 54 south thru farmland and connect to Hwy 54 at the Business 54 underpass, southside of Fulton. At the new interchange, have flowing ramps for all 4 directions, PLUS, this would eliminate the dangerous curve over Business 54 on the northbound lanes of 54 south of Fulton. Yes, more expensive but your proposal is only putting a band aide on an open sever wound. We will still have 2 mile back ups on Sunday afternoon/night from summer lake traffic with your proposal. Use these funds of your proposal towards a real fix!!!! (Seriously-Hwy 54 is a too important major highway intersecting with I-70 to have it bogged down with signal lights!!!!!) Tom Kolb, Jefferson City (Midland Transports)	Thank you for your comments. We value your input. The goal of the current study is to improve safety and mobility through the corridor by reducing crashes and peak period congestion. Additional considerations include cost effectiveness, right of way and utility impacts, roadway characteristics, and environmental factors. Our study found that the Diverging Diamond Interchange (DDI) and additional intersection/ramp enhancements will provide significant improvements for current and future conditions. One important consideration of this project is cost effectiveness. We chose to examine solutions that did not require major impacts to the bridge or a total bridge replacement, to provide for the most economical solution that addresses the congestion and safety concerns at the interchange. While we understand the desire to do more and make more substantial changes, we have to consider the financial realities that we face as the seventh largest state system in the nation. Our transportation needs far outweigh available transportation funding, so in each project that we develop, we're focused to provide cost effective our assistance in sharing the	Tom Kolb	tom.kolb@midlandjc.com	online web forum
Thank you for this we will get it out to our membership for comments. Question I've always had, and I saw the Columbia at I-70 & Stadium is the model for this DDI, why the stop for the left turns off the I 70 west group? The back ups in Columbia are dangerous and at times get back onto i-70. Why isn't the Springfield DDI at Hwy 13 & i-44 the model of choice? It was the first one, and the traffic exiting the interstates only has to yield. The volume of traffic headed south on Hwy 13 was way more of an issue than the southbound traffic on Stadium north of i-70 was/has been. Basically I don't understand the left turn stop lights on these subsequent DDI designs when the original is highly proclaimed and used as an example and doesn't have them? My personal experience and daily wife's commute with the Columbia one tells of near accidents every day with the stops as they exist there in Columbia. The lake traffic at times would seem to be more likely to cause back ups onto I-70 for traffic waiting to turn left onto south Hwy 54. Tom	 Tom, thank you for the comment on the I-/U/U.S. 54 interchange Study and your assistance in sharing the information. As you noted, the I-44/Route 13 interchange has an unsignalized (yield) left-turn movement from the I-44 ramp onto Route 13. There are a few differences to point out: 1. The ramps from I-44 to Route 13 provide a single left-turn lane. The proposed improvements to the ramp from I-70 westbound to U.S. 54 westbound (heading south), provides for two leftturn lanes. 2. The unsignalized left-turn movement for I-44 onto Route 13 merges into a through traffic lane and does - not require traffic to switch lanes to continue the through movement. If a traffic signal was not proposed at the Kingdom City interchange, the outside left-turn lane from I-70 to U.S. 54 would have to merge unprotected into U.S. 54 through traffic. This would introduce an additional point of conflict within the interchange and decrease the level of safety for that turning movement. As you indicated, the I-70 westbound off-ramp to U.S. 54 carries a high volume of traffic, particularly truck traffic. Providing a signalized left-turn allows for trucks to accelerate and navigate the turning movement during a protected ingolf traffic at this location, specifically reviewing the peak traffic periods during the summer months when Lake of the Ozarks traffic is heavy. The proposed conversion of the interchange to a DDI provides better capacity than the current configuration and will aid in reducing the potential of traffic upone traffic upon to 170 through lanes. Again, thank you for your inquiry. Please let us know if you have any additional questions. 	Tom Crawford	tom@motrucking.org	email
I tried to view the environmental study with the above link but it was not working, so apologize if it was covered (I couldn't remember) - was any research into using flyovers for the larger volume left onto west I-70 and US 54 looked into similar to the US 65 and I-44 and US 60 and US 65 models in Springfield? I would think a nice flyover for traffic headed from St Louis to JC/Lake of O2arks would GREATLY benefit from a no stop option, but still give local access for folks looking/needing to make a stop. Obviously the headed north, turning left/west on I-70 is less traffic, but that is another flyover option would benefit and cut down on the backups that occur there as well. Volumes may not justify the turning west onto I-70 flyover, but would definitely be advantageous for the traffic headed to JC/Lake of O2arks. Depending on the other construction going on as well, the OS/OW would still be covered and have an option to keep commerce flowing. I've already commented on the use of the Columbia model (FLAWED) as opposed to the Springfield (HWY 13 & I-44) model which is much preferred. The Columbia model is a ticking time bomb for accidents with the confusion on lanes (3 left turns and a light) and the volume at times (events & rush hours) that backs stopped traffic into the interstate. This is my wife's daily commute, and her office is on the SW corner of that intersection so she experiences and sees the problems and accidents and near accidents that occur on an almost daily basis, particularly during events. Most of her staff have adjusted and have adopted "an avoidance" approach to that redesign. They simply try to avoid using that route during those times. Throw in the Columbia mall confusion/back ups and traffic gets quite clustered around her office since the redesign. I can't imagine Kingdom City will be better for the traffic volumes in the summer if the Columbia model is chosen. The Springfield model has alleviated the 3-5 mile back ups that were occurring on Hwy 13 and solved the Oarark Empire Fair issu	Thank you for your comments. We value your input. You were asking about placing a directional interchange design at this location. This type of interchange with fly-over ramps would require construction of 2 additional bridges and much more additional pavement approaching these bridges. The project would have a much higher construction cost and increased amount of right of way acquisition. The traffic study has analyzed the current and future 2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional ramp/intersections enhancements will provide significant improvements for current and future 2045 conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the same results at this intersection. One important consideration of this project is cost effectiveness. We chose to examine solutions that did not require major impacts to the bridge or a total bridge replacement, to provide for the most economical solution that addresses the congestion and safety concerns at the interchange. While we understand the desire to do more and make more substantial changes, we have to consider the financial realities that we face as the seventh largest state system in the nation. Our transportation needs far outweigh available transportation funding, so in each project that we develop, we're focused to provide cost effective solutions. Thank you for your comments. We value your input and will use it while considering options as this important project develops.	Tom Crawford John Loveless	tom@motrucking.org trainingofficer407@gmail.com	online web forum online web forum
With all the semis that travel through this area we do not feel this will be safer than what we have! My wife already won't drive in the area of stadium and 170. We have you will leave the intersection as in Thank you	Thank you for your comments. We value your input. The traffic study has analyzed the current and future 2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional ramp/intersections enhancements will provide significant improvements for current and future 2045 conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across the state and expect the same results at this intersection. If you are interested to learn more about a DDI interchange, please follow this link. <u>Diamond-Type Interchanges Missouri Department of Transportation</u>	Tom McDowell	ttt104@mmail.com	online web

	Thank you for your comments. We value your input. The goal of the current study is to improve safety and			
	mobility through the corridor by reducing crashes and peak period congestion. Additional considerations			
	include cost effectiveness, right of way and utility impacts, roadway characteristics, and environmental			
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	more and make more substantial changes, we have to consider the financial realities that we face as the			
	seventh largest state system in the nation. Our transportation needs far outweigh available transportation			online web
We are not in favor of the new changes proposed for the intersection.	funding, so in each project that we develop, we're focused to provide cost effective solutions.	Tom McDowell	trtt04@gmail.com	forum
I like the proposed changes as outlined. I travel thru this interchange often coming from the north on 54 entering / exiting onto I-				
70. The only area I'm uncertain / concerned about is the intersection w/ Janice. There is a tremendous amount of semi traffic				
entering and exiting from / onto 54 from both the north and the south. I hope the turns are made wide enough for them to stay in				
their lanes when turning w/o hopping curbing, etc. I've seen another busy intersection of Hwys 54 and 79 in Louisiana where the				
recommended MoDOT plan was implemented to make the intersection wide enough for semis but the end product still have	Thank you for your comments. We value your input and will use it while considering options as this			online web
turning trucks hopping curbs.	important project develops.	Walter Logan	waltercL2@att.net	forum
There is nothing wrong with this intersection. If it ain't broke, Don't fix it. I did read where one truck driver said that turning west				
was hard because there was not enough room to turn. Fixing this would not and should not entail a complete intersection overhaul				
NO Roundabouts. NO diverging diamonds. NO dog bones. None! Nada!! The roundabouts in Columbia are horrible. Some of	Thank you for your comments. We value your input. The traffic study has analyzed the current and future			
them are even to small for our car at alone when we have the truck with a trailer hauling our UTV to get repaired/serviced. The	2045 traffic and the study has shown that the Diverging Diamond Interchange (DDI) and additional			
diverging diamond is so confusing and Heaven forbid if you get caught in traffic and cannot change lanes. You drive for blocks	ramp/intersections enhancements will provide significant improvements for current and future 2045			
before you can circle around and get back to where you need to go. Ditto for the dog bones. I think there are plenty of other more	conditions. We have seen success with the Diverging Diamond Interchange (DDI) at other locations across			
urgent intersections and highway improvements that need done before a perfectly working intersection is ruined. One of those	the state and expect the same results at this intersection. If you are interested to learn more about a DDI			
argent intersections and rightway improvements that need done before a perfectly working intersection is funed. One of those	the state and expect the same results at this intersection. If you are interested to learn note about a bor			
much needed improvements would be on and off ramps at the Callaway Stockyards intersection. Of course in my area, I could	interchange, please follow this link. <u>Diamond-Type Interchanges</u> <u>Missouri Department of Transportation</u>			online web
much needed improvements would be on and off ramps at the Callaway Stockyards intersection. Of course in my area, I could name several highway improvements that I am sure MODOT would say they do not have the money for.	interchange, please follow this link. <u>Diamond-Type Interchanges</u> <u>Missouri Department of Transportation</u> (modot.org)	Margie Anglen	weanglen@socket.net	online web forum
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I am curious why the concern about keeping the unused railroad bridge over Interstate 70, and also the bridge over Old Hwy 40? The line has not been used in years, and will in all probability never be used again for rail because of the cost of rebuilding the	interchange, please follow this link. <u>Diamond-Type Interchanges</u> <u>Missouri Department of Transportation</u> (modot.org)	Margie Anglen	weanglen@socket.net	online web forum
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March 1, 2022

Mr. Patrick McKenna Missouri Highways and Transportation Commission P.O. Box 270 Jefferson City, MO 65102 *Via email: Patrick.McKenna@modot.mo.gov*

Director McKenna:

The Lake Area Chamber of Commerce is made up of over 600 member businesses around Lake of the Ozarks. We are writing to express our great disappointment in the Missouri Department of Transportation's "Preferred Alternative" for the I-70/US-54 interchange in Kingdom City and the process used to select that alternative.

Kingdom City represents a vital link between our communities and their visitors, suppliers, and customers. Yet for decades, the traffic flow there has deteriorated as longer and longer backups occur at the interchange's traffic lights. On summer Sundays, traffic on eastbound US 54 can back up as far as the northernmost Fulton exit, and backups on Friday night extend well into the westbound I-70 mainline for a mile or more. All of these backups on the St. Louis/Lake movement pattern occur at the interchange's stoplights, which bring traffic to a halt up to three times on a route that is otherwise 70mph. Large trucks are a major part of the congestion because they accelerate so slowly from a stop, and the current design forces them to stop repeatedly to navigate in and out of Kingdom City's businesses while car traffic attempts to pass through on its way to the Lake and other mid-Missouri destinations.

MoDOT's preferred alternative proposes to rebuild and maintain each of these stoplights. Although the new "DDI" design may be more efficient than the old one, no amount of innovative design can make trucks accelerate more quickly from a stop. Traffic travelling from the east to our communities will still have to pass through three stoplights to switch between national four-lane highways, and traffic heading in the reverse direction will still pass through two. The stoplight at the southern truck stops will remain in place exactly where it currently causes traffic to back up for miles. And the lengthened off-ramp for westbound I-70 seems to acknowledge that travelers will continue to back up at the off-ramp stoplight, and that more space is needed to fit all of the stopped vehicles. The new layout will therefore suffer the same problems as the present design.

Last fall, we specifically asked to be included in the consideration of this project. MoDOT ignored that request, and instead convened a Stakeholder Advisory Committee made up of "[m]ore than 20 nearby businesses and local representatives." You also commissioned a survey for the public, nearly 70% of the answers to which were from "local residents." Once the preferred alternative was announced, we were told our omission was an accident. We find that hard to believe, as we contacted MoDOT several times in

December and January for updates and were not told about the stakeholder group or included at any point. After we complained, your project manager offered us a presentation on the project and told us we could comment, but she made clear that our input would not make a difference and that MoDOT had already made its final decision without hearing from us.

We have also learned that the study was fundamentally flawed in several ways:

- MoDOT specifically set the parameters of the study to require the use of a diamond design, and no free-flowing alternatives were considered at this system interchange between national, fourlane, 70mph highways;
- MoDOT measured traffic in the interchange on Wednesday, August 25 and Friday, August 27, 2021, after most kids have started school and traffic to the Lake has decreased;
- MoDOT then used those slower dates to estimate traffic on Labor Day weekend, instead of taking actual traffic counts for the very condition this project was supposedly designed to address;
- MoDOT did not take traffic counts on any Sunday, and did not take any counts south of the truckstop stoplight, where traffic returning from the Lake backs up on Sunday mornings.

These details convince us that MoDOT did not adequately consider the needs of those passing through Kingdom City. Any conclusions drawn from this flawed study will lead to flawed recommendations.

Your website identifies three goals for this project. The preferred alternative certainly "provides access to nearby businesses and promotes economic growth in Kingdom City," and your presentation makes several mentions of those priorities. However, the preferred alternative does not meaningfully improve "mobility through the corridor." To the contrary, this proposal does little to change the interchange for motorists trying to travel through Kingdom City to or from our communities, and it will continue to cause long backups once completed (not to mention construction delays). With those goals in mind, this project's estimated cost of \$6,695,000 cannot justify such minimal benefit.

It is apparent from your process and the selected design that the concerns of local businesses and residents were paramount over the regional traffic impact of this project, and that the interests of travelers moving *through* the interchange were not seriously considered. We respectfully request you reconsider this design and solicit input from *all* stakeholders, not just those adjacent to the interchange. The I-70/US-54 interchange impacts much more than Kingdom City, and the priorities of the traveling public would be better served by a freer-flowing design.

Sincerely,

/s/ Cole D. Bradbury

Cole D. Bradbury Board President

CC: Missouri Highways and Transportation Commission Ms. Mia Peters Mayor Dennis Newberry Mayor John Olivarri Rep. Don Mayhew Rep. Lisa Thomas





Dennis Newberry Mayor newberry@cityoflakeozark.net

February 28, 2022

Ms. Mia Peters, Project Manager MoDOT Central District 1511 Missouri Blvd. Jefferson City, MO 65102

Dear Ms. Peters:

It has recently come to our attention that the Missouri Department of Transportation is about to conclude the comment period regarding MoDOT's preferred alternative for the I-70/US-54 interchange in Kingdom City.

Unfortunately, we have not had an opportunity to review the proposed solution before now. Therefore, we respectfully request a thirty day extension to the comment period.

Given that the proposed construction of the new interchange will not take place until 2025 or 2026, extending the comment period thirty days should not adversely affect the project.

Thank you for considering our request.

Respectfully, Dennis Newberry

Mayor



United States Department of the Interior

FISH AND WILDLIFE SERVICE Missouri Ecological Services Field Office 101 Park Deville Drive Suite A Columbia, MO 65203-0057 Phone: (573) 234-2132 Fax: (573) 234-2181



May 18, 2022

In Reply Refer To: Project code: 2022-0016475 Project Name: 5P3417, Callaway 54, Intersection Improvements at I-70

Subject: Concurrence verification letter for the '5P3417, Callaway 54, Intersection Improvements at I-70' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated May 18, 2022 to verify that the **5P3417, Callaway 54, Intersection Improvements at I-70** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is <u>not likely to adversely affect</u> (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*). Consultation with the Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) is required.

The Service has 14 calendar days to notify the lead Federal action agency or designated nonfederal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do <u>not</u> notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities: If your initial bridge/culvert or structure assessments failed to detect Indiana bats, but you later detect bats prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

The following species may occur in your project area and **are not** covered by this determination:

- Gray Bat Myotis grisescens Endangered
- Monarch Butterfly Danaus plexippus Candidate

Project Description

The following project name and description was collected in IPaC as part of the endangered species review process.

Name

5P3417, Callaway 54, Intersection Improvements at I-70

Description

Scoping for intersection improvements at I-70 in Kingdom City. Capacity improvements to US 54, I-70 on ramp acceleration lanes, and possible interchange redevelopment.

Determination Key Result

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the threatened Northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

Qualification Interview

1. Is the project within the range of the Indiana bat^[1]?

[1] See <u>Indiana bat species profile</u> Automatically answered *Yes*

2. Is the project within the range of the Northern long-eared bat^[1]?

[1] See <u>Northern long-eared bat species profile</u> Automatically answered *Yes*

3. Which Federal Agency is the lead for the action?

A) Federal Highway Administration (FHWA)

4. Are *all* project activities limited to non-construction^[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

[1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting. *No*

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/ rail surfaces^[1]?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1]?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

- 7. Is the project located **within** a karst area?
 - No

8. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.

[2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the <u>User's</u> <u>Guide for the Range-wide Programmatic Consultation for Indiana Bat and Northern Long-eared Bat</u>. *Yes*

9. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?

[1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*

- 10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail? *No*
- 11. Have presence/probable absence (P/A) summer surveys^{[1][2]} been conducted^{[3][4]} within the suitable habitat located within your project action area?

[1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.

[2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

[3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

[4] Negative presence/probable absence survey results obtained using the <u>summer survey guidance</u> are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

12. Does the project include activities **within documented Indiana bat habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

13. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors?

Yes

- 14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur^[1]?
 - [1] Coordinate with the local Service Field Office for appropriate dates.
 - B) During the inactive season
- 15. Does the project include activities within documented NLEB habitat^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

16. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors?

Yes

17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?

B) During the inactive season

- 18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 19. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

- 20. Are *all* trees that are being removed clearly demarcated? *Yes*
- 21. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?

No

22. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

No

23. Does the project include slash pile burning?

No

- 24. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)? *No*
- 25. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

- 26. Will the project involve the use of **temporary** lighting *during* the active season? *Yes*
- 27. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

Yes

28. Will the project install new or replace existing **permanent** lighting?

No

29. Does the project include percussives or other activities (**not including tree removal**/ **trimming or bridge/structure work**) that will increase noise levels above existing traffic/ background levels?

No

30. Are *all* project activities that are **not associated with** habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

Examples: lining roadways, unlighted signage, rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

Yes

31. Will the project raise the road profile **above the tree canopy**?

32. Are the project activities that are not associated with habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

Automatically answered

Yes, other project activities are limited to actions that DO NOT cause any additional stressors to the bat species as described in the BA/BO

33. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the tree removal/trimming that occurs outside of the Indiana bat's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

34. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the tree removal/trimming that occurs outside of the NLEB's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

35. General AMM 1

Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

Yes

36. Tree Removal AMM 1

Can *all* phases/aspects of the project (e.g., temporary work areas, alignments) be modified, to the extent practicable, to avoid tree removal^[1] in excess of what is required to implement the project safely?

Note: Tree Removal AMM 1 is a minimization measure, the full implementation of which may not always be practicable. Projects may still be NLAA as long as Tree Removal AMMs 2, 3, and 4 are implemented and LAA as long as Tree Removal AMMs 3, 5, 6, and 7 are implemented.

[1] The word "trees" as used in the AMMs refers to trees that are suitable habitat for each species within their range. See the USFWS' current summer survey guidance for our latest definitions of suitable habitat.

Yes

37. Tree Removal AMM 3

Can tree removal be limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits)?

Yes

38. Tree Removal AMM 4

Can the project avoid cutting down/removal of *all* (1) **documented**^[1] Indiana bat or NLEB roosts^[2] (that are still suitable for roosting), (2) trees **within** 0.25 miles of roosts, and (3) documented foraging habitat any time of year?

[1] The word documented means habitat where bats have actually been captured and/or tracked.

[2] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

Yes

39. Lighting AMM 1

Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

Yes

Project Questionnaire

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

Yes

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

No

3. How many acres^[1] of trees are proposed for removal between 0-100 feet of the existing road/rail surface?

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number. *0.87*

Avoidance And Minimization Measures (AMMs)

This determination key result includes the committment to implement the following Avoidance and Minimization Measures (AMMs):

TREE REMOVAL AMM 1

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal.

LIGHTING AMM 1

Direct temporary lighting away from suitable habitat during the active season.

TREE REMOVAL AMM 2

Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/ rail surface and **outside of documented** roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with <u>no bats observed</u>.

TREE REMOVAL AMM 3

Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).

TREE REMOVAL AMM 4

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or

documented foraging habitat any time of year.

GENERAL AMM 1

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on April 28, 2022. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should <u>only</u> be used to verify project applicability with the Service's <u>February</u> <u>5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects</u>. The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is <u>not</u> intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

IPaC User Contact Information

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Lead Agency Contact Information

Lead Agency: Federal Highway Administration

Appendix C Map of Environmental Resources



Appendix D Wetland and Other Waters of the U.S. for Project J5P3417 Tech Memo

Interchange Improvements at the US 54/I-70 interchange in Kingdom City Waters of U.S. Delineation

Callaway County, MO

MoDOT Job Number: J5P3417

December 16, 2021





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1 1.0 Introduction

- 2 Hg Consult Inc. (Hg) conducted a wetland and stream delineation in November 2021. The purpose of this
- 3 wetland investigation was to identify the location and extent of jurisdictional waters of the U.S. (WOUS),
- 4 including wetlands, as regulated under Sections 401 and 404 of the Clean Water Act within the NEPA re-
- 5 evaluation study area.
- The study area is located in Sections 8, 9, 16, and 17 of Township 48N and Range 9W, at the US 54 and I70 Interchange in Kingdom City, in Callaway County, Missouri as shown in Figure 1 in Appendix A.
- 8 Prior to the field investigation a review of published literature and records search provided some baseline data
- about the study area. Several existing maps and sources of land use information were also collected and
- 10 reviewed to assist with the onsite investigation.
- 11 Jurisdictional WOUS, including wetlands, identified within the study area are demarcated on Figure 3.
- 12 Findings of the field investigation are summarized in this report. The methods used to identify jurisdictional
- 13 WOUS, including wetlands, were those set forth in the 1987 U.S. Army Corps of Engineers (USACE) Wetland
- 14 Delineation Manual (Y-87-I) and Regional Supplement to the Corps of Engineers Wetland Delineation
- 15 Manual: Midwest Region (2010). Figures are provided in Appendix A. A photolog and photo location map
- 16 is provided in Appendix B. Data sheets are provided in Appendix C.
- 17 The USACE has jurisdiction over all WOUS and is the regulatory authority for decisions regarding the
- 18 occurrence of wetlands and other WOUS within the study area. The findings of this report are not valid
- 19 without written concurrence from the USACE Regulatory Branch. Discharges of dredged or fill materials
- into WOUS, including wetlands, require prior authorization from the USACE under Section 404 of the
- 21 Clean Water Act (33 USC 1344).

22 2.0 Methodology

- A desktop review of existing data and resource maps was completed prior to the project site visit. The desktop review was performed to better understand the topography, hydrology, soils, and natural resources within the
- study area. A field survey was conducted to identify and map wetlands and other WOUS. Photographs were
- taken (locations are shown on Figure 4) and are included in the Site Photo Log in Appendix B. Tributaries
- 27 were identified by observing the presence of a defined bed and bank, as well as a discernible ordinary high
- 28 water mark (OHWM). The wetland delineation methodology also included a delineation of wetlands and
- 29 identified other WOUS including ponds, lakes, mudflats, sandflats, streams, rivers, and sloughs. The wetland
- 30 delineation was conducted according to the 1987 USACE Wetland Delineation Manual and the 2010
- 31 Midwest Region Regional Supplement. A wetland data sheet was completed at any National Wetland
- 32 Indicator location or any area where wetland vegetation or hydrology was apparent or suspected. If a
- 33 wetland data sheet indicated the presence of a wetland (the in-point), then another wetland data sheet (the
- out-point) was completed just outside of the wetland area. All data points and wetland areas were delineated
 with a real-time meter accurate (sub-meter accurate post processing) GNSS receiver. The 2020 (v3.5)
- 35 with a real-time meter accurate (sub-meter accurate post processing) GNSS receiver. The 2020 (V3.5) 36 National Wetland Plant List was used to complete the wetland data sheets. The wetland data sheets are
- 37 included in Appendix C.

38 3.0 Existing Data

- 39 A summary of the resources used as reference material for this investigation is provided below.
- U.S. Geologic Survey (USGS): 7.5-Minute Topographic Map (Figure 1 and 2)
- U.S. Fish and Wildlife Service: National Wetlands Inventory (NWI) Map (Figure 2)

- Natural Resources and Conservation Service; Web Soil Survey (Figure 2)
 - Aerial Photography (Figure 3)

2

3 3.1 USGS 7.5-Minute Topographic Map, Fulton, Missouri, Quadrangle

4 Review of the topographic map, as shown on Figure 2, depicts that the study area transects McKinney Creek

5 (dashed blue line) north of the US 54 and I-70 interchange. It transects an unnamed tributary (dashed blue

- 6 line) southeast of the interchange. The topographic map shows that the majority of the study area has been
- 7 developed by transportation projects as well as other buildings and impoundments around the interchange.
- 8 Terrain in the study area consists of rolling hills. The lowest elevation, near McKinney Creek is approximately
- 9 800 feet, National Geodetic Vertical Datum (NGVD) with the highest elevation being just south of the
- 10 interchange is approximately 860 feet NGVD.

11 3.2 National Wetlands Inventory

- 12 The NWI map shows five NWI features present within the study area (Figure 2) as follows:
- There are four PUBGx (palustrine, unconsolidated bottom, intermittently exposed, excavated)
 features within the study area. It appears that many of them are no longer present due to
 development around the interchange.
- An R4SBC (riverine, intermittent, streambed, seasonally flooded) feature is present southeast of
 the US 54 and I-70 interchange. This feature coincides with a dashed blue line on the
 topographic map.

19 3.3 Web Soil Survey

Seven soil map units occur within the study area (Figure 2). Site soils are described in detail below. Soil map
units and inclusions listed as hydric soils are noted, if applicable.

30039—Armstrong loam, 9 to 14 percent slopes, eroded: The parent material consists of loess over red
 palesol and underlying subglacial till. Depth to a root restrictive layer is greater than 60 inches. The natural

25 palesol and underlying subgracial III. Depin to a root restrictive layer is greater than of incress. The natural 24 drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available

water to a depth of 60 inches (or restricted depth) is high. This soil is not flooded. It is not ponded. A seasonal

26 zone of water saturation is at 12 inches during April and October. This soil does not meet hydric criteria.

27 *36085—Landes loam, 1 to 3 percent slopes, frequently flooded*: The Landes component makes up 90

28 percent of the map unit. Slopes are 1 to 3 percent. This component is on drainageways, till plains. The parent

29 material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage

30 class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a

31 depth of 60 inches (or restricted depth) is high. This soil is frequently flooded. It is not ponded. A seasonal

32 zone of water saturation is at 60 inches during January, February, March, April, May, November, and

- 33 December. This soil meets hydric criteria.
- 34 *50001—Armstrong loam, 5 to 9 percent slopes, eroded*: The parent material consists of loess over red
- 35 palesol and underlying subglacial till. Depth to a root restrictive layer is greater than 60 inches. The natural
- drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available
- 37 water to a depth of 60 inches (or restricted depth) is high. This soil is not flooded. It is not ponded. A seasonal
- zone of water saturation is at 12 inches during April and October. This soil does not meet hydric criteria.
- 39 50008—Keswick silt loam, 5 to 9 percent slopes, eroded: The parent material consists of pedisediment over
- 40 till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly
- 41 drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60

- 1 inches (or restricted depth) is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water
- 2 saturation is at 24 inches during January, February, March, April, May, November, and December. This soil
- 3 does not meet hydric criteria.
- 4 50059—Mexico silt loam, 1 to 4 percent slopes, eroded: The parent material consists of loess over
- 5 pedisediment. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly
- 6 drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or
- 7 restricted depth) is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 9
- 8 inches during January, February, March, April, May, November, and December. This soil meets hydric
- 9 criteria.
- 10 *67035—Haymond silt loam, 1 to 3 percent slopes, frequently flooded*: The parent material consists of
- alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained.
- 12 Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or
- 13 restricted depth) is high. This soil is frequently flooded. It is not ponded. There is no zone of water saturation
- 14 within a depth of 72 inches. This soil does not meet hydric criteria.
- 15 70009—Goss gravelly silt loam, 8 to 15 percent slopes: The parent material consists of slope alluvium over
- 16 residuum weathered from limestone. Depth to a root restrictive layer is greater than 60 inches. The natural
- 17 drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available
- 18 water to a depth of 60 inches (or restricted depth) is low. This soil is not flooded. It is not ponded. There is no
- zone of water saturation within a depth of 72 inches. This soil does not meet hydric criteria.

20 3.4 Aerial Imagery

- 21 Recent aerial photography shows the US 54 and I-70 interchange study area as being mostly developed with
- transportation facilities, gas stations, hotels, truck stops, fast food restaurants, and other various buildings.
- 23 Near the northern terminus there is a wooded riparian area that transects the study area. This riparian area
- 24 corresponds to McKinney Creek from the topographic map. There is a large, wooded area to the northeast of
- 25 the interchange, and another large, wooded area to the west of the southern terminus. There appears to be
- water treatment ponds east of a large truck parking area southeast of the interchange which drain to a
- 27 riparian area that corresponds to the unnamed tributary from the topographic map. No other water features28 are apparent from the aerial.
- 29

30 4.0 Potential Jurisdictional Results

- On November 12, 2021, Hg staff conducted pedestrian surveys of the study area to identify jurisdictional wetlands and other WOUS. Descriptions of the resources identified on the project site are presented in the
- 33 following subsections.

34 4.1 Streams and Tributaries

35 Linear water features include all tributaries, streams, and drainages on the site that have ephemeral,

36 intermittent, or perennial flows. They are characterized as being traditional navigable waters, relatively

- 37 permanent waters (RPWs), non-relatively permanent waters (Non-RPWs), swales and ditches, and erosional
- 38 drainage features. The tributaries found within the project site are discussed below and summarized in Table
- 39 1.
- 40
- 41

2 Table 1: Streams

1

			OHWM		Direction from	
ID	Name	Туре	width (ft)	Length (ft)	Interchange	Potentially Jurisdictional
T5	Unnamed	Intermittent, RPW	15	38	Northeast	Yes
T6	McKinney Creek	Intermittent, RPW	15	850	North	Yes
		Intermitte	nt RPW Subtotal	888		
	Unnamed depicted on	Intermittent, Non-				
Т3	topographic map	RPW	5	132	Southeast	Yes
		Intermittent No	n-RPW Subtotal	132		
		Ephemeral, Non-				
T1	Unnamed	RPW	1	704	Southwest	Yes
		Ephemeral, Non-				
T2	Unnamed	RPW	4	136	Southwest	Yes
		Ephemeral, Non-				
T4	Unnamed	RPW	3	57	Northeast	Yes
		Ephemeral, Non-				
T7	Unnamed	RPW	3	1,879	Northwest	Yes
		Ephemeral, Non-				
T8	Unnamed	RPW	4	93	Northwest	Yes
		Ephemeral No	n-RPW Subtotal	2,869		
Tatal				2 0 0 0		

3

4 4.1.1 Traditionally Navigable Waters

5 Traditionally Navigable Waters are all tidal waters and waters that have been, could be, or are used in

6 interstate or foreign commerce. Traditionally Navigable Waters (TNW) are jurisdictional and any tributary

7 that continually flows directly or indirectly, at least seasonally, into a TNW is also jurisdictional.

8 There are no TNWs within the study area.

9 4.1.2 Relatively Permanent Waters

10 Relatively permanent waters (natural, man-altered, or man-made water bodies) have continuous flow, at least

seasonally. A tributary that flows for at least three months of the year would typically be considered an RPW.

12 This type of tributary can include unnamed intermittent and perennial tributaries not mapped on 7.5' USGS

13 topographic maps.

14 Potential intermittent RPWs identified include T5 and T6 (McKinney Creek) listed in Table 1 above. The

15 total length of potential intermittent RPWs identified in the study area was 888 ft. (see Figure 3). These 16 features are described below:

17 **Tributary 5 (T5)**: T5 is an unnamed intermittent tributary (not depicted on the topographic map) to the

18 northeast of the interchange. It drains into McKinney Creek outside of the study area. It exhibits a defined

19 bed and bank and an OHWM. In general, at this location, it flows from west to east. The average OHWM

width is 15 feet and the average OHWM depth is 5 feet. The width of the top of bank is approximately 40

21 feet and the depth is 15 feet. The tributary is bordered by a forested riparian buffer.

22 Tributary 6 (T6): T6 is McKinney Creek. It transects the study area near the northern terminus. It exhibits a

23 defined bed and bank and an OHWM. In general, at this location, it flows from west to southeast. The

24 average OHWM width is 15 feet and the average OHWM depth is 5 feet. The width of the top of bank is

approximately 50 feet and the depth is 20 feet. The tributary is bordered by a forested and herbaceous

26 riparian buffer.

1 4.1.3 Non-Relatively Permanent Waters

- 2 Non-relatively permanent waters are not typically influenced by seasonal flow. Rainfall runoff is a primary
- 3 source of hydrology in these systems. Ephemeral tributaries and upper reaches of intermittent tributaries are
- 4 examples of non-RPWs. This type of tributary can include unnamed intermittent tributaries not mapped on 7.5'
- 5 USGS topographic maps. Non-RPWs have a defined bed and bank and an OHWM and may be
- 6 jurisdictional waters of the U.S.
- 7 The potential intermittent non-RPWs include T3. The total length of potentially intermittent non-RPWs
- 8 identified within study area was 132 ft. (see Figure 3). It is described below:
- 9 Tributary 3 (T3): T3 is an unnamed intermittent tributary (as depicted on the topographic map) to the
- 10 southeast of the interchange. It drains into McKinney Creek outside of the study area. It exhibits a defined
- bed and bank and an OHWM. In general, at this location, it flows from west to east. The average OHWM
- 12 width is 5 feet and the average OHWM depth is 3 feet. The width of the top of bank is approximately 25 feet
- and the depth is 5 feet. The tributary is bordered by a forested and herbaceous riparian buffer.
- 14 The potential ephemeral non-RPWs include T1, T2, T4, T7, and T8. The total length of potentially
- intermittent non-RPWs identified within the study area was 2,869 ft. (see Figure 3). They are described
- 16 below:
- 17 Tributary 1 (T1): T1 is an unnamed ephemeral tributary (not depicted on the topographic map) to the
- 18 southwest of the interchange. It drains into a culvert under a parking lot. It exhibits a defined bed and bank
- and an OHWM. In general, at this location, it flows from west to east. The average OHWM width is 1 foot
- 20 and the average OHWM depth is 1 foot. The width of the top of bank is approximately 3 feet and the depth is
- 21 2 feet. The tributary is bordered by an herbaceous riparian buffer.
- 22 **Tributary 2 (T2)**: T2 is an unnamed ephemeral tributary (not depicted on the topographic map) to the
- 23 southwest of the interchange. It drains off the study area to the west. It exhibits a defined bed and bank and
- an OHWM. In general, at this location, it flows from east to west. The average OHWM width is 4 feet and the
- average OHWM depth is 1 foot. The width of the top of bank is approximately 12 feet and the depth is 4 feet.
- 26 The tributary is bordered by a forested riparian buffer.
- 27 Tributary 4 (T4): T4 is an unnamed ephemeral tributary (not depicted on the topographic map) to the east of
- the interchange. It flows under I-70 through a culvert and drains into T3 to the north of the study area. It
- 29 exhibits a defined bed and bank and an OHWM. In general, at this location, it flows from south to north. The
- 30 average OHWM width is 3 feet and the average OHWM depth is 1 foot. The width of the top of bank is
- 31 approximately 20 feet and the depth is 5 feet. The tributary is bordered by forested riparian buffer.
- **Tributary 7 (T7)**: T7 is an unnamed ephemeral tributary (not depicted on the topographic map) to the
- 33 northwest of the interchange. It originates in an out-of-study-area swale, flows into the study area and along
- 34 the northern edge of I-70. It drains into a culvert that goes under US 54. On the east side US 54 the tributary
- 35 daylights as T5, possibly due to the connection of multiple culverts under US 54 and roadside/developed
- 36 area drainage. This is delineated as a potentially jurisdictional tributary because it originates offsite and was
- 37 likely present (though manipulated) before the development of the area. It exhibits a defined bed and bank
- and an OHWM. In general, at this location, it flows from west to east. The average OHWM width is 3 feet
- 39 and the average OHWM depth is 2 feet. The width of the top of bank is approximately 5 feet and the depth is
- 40 3 feet. The tributary is bordered by an herbaceous and shrubby riparian buffer.
- 41 Tributary 8 (T8): T8 is an unnamed ephemeral tributary (not depicted on the topographic map) to the
- 42 northwest of the interchange. It drains into McKinney Creek. It exhibits a defined bed and bank and an
- 43 OHWM. In general, at this location, it flows from southwest to northeast. The average OHWM width is 4 feet

- 1 and the average OHWM depth is 3 feet. The width of the top of bank is approximately 6 feet and the depth is
- 2 4 feet. The tributary is bordered by a forested riparian buffer.

3 4.1.4 Swales, Ditches, and Erosional Drainage Features

- 4 Swales are generally shallow features in the landscape that may convey water across upland areas during
- 5 and following storm events. Swales usually occur on nearly flat slopes and typically have grass or other low-
- 6 lying vegetation throughout. Swales are generally not waters of the U.S. because either they are not
- 7 tributaries, or they do not have a significant nexus to a traditional navigable water. Even though a swale may
- 8 not be a WOUS the swale may still contribute to a surface hydrologic connection between an adjacent
- 9 wetland and a traditional navigable water.
- 10 Ditches (including roadside ditches), excavated wholly in and draining only uplands and that do not carry a
- relatively permanent flow of water, are generally not WOUS because either they are not tributaries, or they
- 12 do not have a significant nexus to a traditional navigable water. If a ditch has relatively permanent flow into
- 13 WOUS or between (two or more) WOUS, the ditch is jurisdictional. Even though a ditch may not be a
- 14 WOUS, the ditch may still contribute to a surface hydrologic connection between an adjacent wetland and a
- 15 traditional navigable water.
- 16 Erosional drainage features, including gullies, are generally not WOUS because either they are not
- 17 tributaries, or they do not have a significant nexus to a traditional navigable water. Erosional features are
- 18 formed where surface runoff becomes concentrated; they generally dissipate when slopes flatten or when soils
- 19 and/or ground cover transition to an area with greater resistance to erosion.
- 20 Due to the hilly terrain next to the roads, roadside ditches were common. Four erosional drainage
- 21 features/ditches were identified in the study area. These features lack an OHWM, bed and bank, have
- vegetation growing in the drainageway, were formed wholly in and draining only uplands, do not carry a
- 23 relatively permanent flow of water, do not originate offsite, or were likely not present prior to development of
- 24 the area.

25 4.1.5 Open Waters

- 26 Open waters are unvegetated bodies of water such as ponds and lakes. These features may be jurisdictional if 27 connected (i.e., they have a significant nexus) to jurisdictional water.
- 28 There are two open water areas within the study area Open Water (OW)1 and OW2. These are both
- water treatment/sedimentation basins for a large truck parking area. OW1 is approximately 0.17 acre
- and OW2 is approximately 0.09 acre, for a total of 0.26 acre. The OWs within the study area are
- 31 described in Table 2 below.
- 32 Table 2: Open Waters

ID	Potentio Jurisdic	ally tional Type	Direction from Interchange	Area (ac.)	Notes
OWI	Yes	Open Water	Southeast	0.17	Water treatment/sedimentation basins for parking lot
ow2	2 Yes	Open Water	Southeast	0.09	Water treatment/sedimentation basins for parking lot
Total				0.26	

33
1 4.1.6 Wetlands

- 2 Wetlands are those areas that are inundated or saturated by surface water or groundwater at a frequency
- 3 and duration sufficient to support, and that under normal circumstances do support, a prevalence of
- 4 vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps,
- 5 marshes, bogs, and similar areas. Wetlands may or may not be jurisdictional, depending upon whether they
- 6 have a significant nexus to a traditional navigable water.
- 7 This delineation identified four potentially jurisdictional palustrine emergent (PEM) wetland areas totaling

8 0.14 acres. Details of the features are included in Table 3 and shown on Figure 3. The wetlands are

- 9 described below:
- 10 Wetland 1 (W1): W1 is a PEM wetland located adjacent to T1 and at a PUBGx NWI feature. The wetland
- is located southwest of the interchange in between two parking lots. Wetland features observed in the field are documented by Data Sheet W1-1.
- 13 Wetland 2 (W2): W2 is a PEM wetland abutting T1. The wetland is located southwest of the interchange to
- the west of a parking lot. Wetland features observed in the field are documented by Data Sheet W2-1.
- 15 Wetland 3 (W3): W3 is a small PEM wetland abutting T7. The wetland is located northwest of the
- 16 interchange where T7 enters a culvert under US 54. Wetland features observed in the field are documented
- 17 by Data Sheet W3-1.
- 18 Wetland 4 (W4): W4 is a PEM wetland abutting T7. The wetland is located along I-70 northwest of the
- 19 interchange. Wetland features observed in the field are documented by Data Sheet W4-1.
- 20 Non-jurisdictional Roadside Ditch Wetlands (RDWs). There are ten RDWs within the study area. RDWs are
- 21 wetlands that have formed wholly in ditches that drain only uplands and that do not carry a relatively
- 22 permanent flow of water, are generally not WOUS because either they are not tributaries, or they do not have
- a significant nexus to a traditional navigable water. The RDWs would not be present except for the
- 24 development of roadways where water pools in non-jurisdictional roadside ditches. The RDWs have similar
- vegetation consisting of nearly 100% cover of cattail (*typha latifolia*) or are sparsely vegetated; they have a
- similar wetland soil indicator (Reduced Dark Surface); and have similar hydrology indicators (surface water of
- approximately 1 to 3 inches, saturation, drainage patterns, and FAC-neutral test). A typical photo is included
- in Appendix B and a typical data form is included in Appendix C. Together, the RDWs total approximately
- 29 0.23 acre.
- 30

31 Table 3: Wetlands

ID	Potentially Jurisdictional	Туре	Direction from Interchange	Area (ac.)	Notes
W1	Yes	PEM	Southwest	0.02	Adjacent to T1
W2	Yes	PEM	Southwest	0.02	Abutting T1
W3	Yes	PEM	Northwest	0.01	Abutting T7
W4	Yes	PEM	Northwest	0.09	Abutting T7
Total				0.14	

¹ 5.0 Conclusion

- 2 As part of this study Hg conducted a wetland and stream delineation on November 12, 2021. The purpose of
- 3 this wetland investigation was to identify the location and extent of jurisdictional waters of the U.S. (WOUS),
- 4 including wetlands, as regulated under Sections 401 and 404 of the Clean Water Act within the study area.
- 5 Figures are provided in Appendix A. A photolog and photo location map is provided in Appendix B. Data
- 6 sheets are provided in Appendix C.
- 7 The USACE has jurisdiction over all WOUS and is the regulatory authority for decisions regarding the
- 8 occurrence of wetlands and other WOUS within the study area. The findings of this report are not valid
- 9 without written concurrence from the USACE Regulatory Branch. Discharges of dredged or fill materials
- in WOUS, including wetlands, require prior authorization from the USACE under Section 404 of the
- 11 Clean Water Act (33 USC 1344).
- 12 There are no TNWs within the study area.
- 13 Potential intermittent RPWs include T5 and T6 (McKinney Creek). The total length of potential intermittent
- 14 RPWs identified in the study area was 888 ft.
- 15 Potential intermittent non-RPWs include T3. The total length of potentially intermittent non-RPWs identified
- 16 within study area was 132 ft.
- Potential ephemeral non-RPWs include T1, T2, T4, T7, and T8. The total length of potentially intermittent non RPWs identified within study area was 2,869 ft.
- 19 There are two open water areas within the study area OW1 and OW2. These are both water
- 20 treatment/sedimentation basins for a large truck parking area. OW1 is approximately 0.17 acre and OW2 is
- approximately 0.09 acre, for a total of 0.26 acre.
- 22 This delineation identified four potentially jurisdictional PEM wetland areas totaling 0.14 acres. A summary of
- 23 these water resources is shown below in Table 4.

1 Table 4: Summary

Stream	n Summary					
			OHWM width	Length	Direction from	
ID	Name	Туре	(ft)	(ft)	Interchange	Potentially Jurisdictional
T5	Unnamed	Intermittent, RPW	15	38	Northeast	Yes
T6	McKinney Creek	Intermittent, RPW	15	850	North	Yes
		Intern	nittent RPW Subtotal	888		
	Unnamed depicted on	Intermittent, Non-				
Т3	topographic map	RPW	5	132	Southeast	Yes
		Intermittent	Non-RPW Subtotal	132		
		Ephemeral, Non-				
T1	Unnamed	RPW	1	704	Southwest	Yes
		Ephemeral, Non-				
T2	Unnamed	RPW	4	136	Southwest	Yes
		Ephemeral, Non-				
T4	Unnamed	RPW	3	57	Northeast	Yes
		Ephemeral, Non-				
T7	Unnamed	RPW	3	1,879	Northwest	Yes
		Ephemeral, Non-				
T8	Unnamed	RPW	4	93	Northwest	Yes
		Ephemeral	Non-RPW Subtotal	2,869		
			Total	3,889		
Open	Water Summary					
	Potentially		Direction from	Area		
ID	Jurisdictional	Туре	Interchange	(ac.)	Notes	
OW1	Yes	Open Water	Southeast	0.17	Water treatment/sec	limentation basins for parking lot
OW2	Yes	Open Water	Southeast	0.09	Water treatment/sec	limentation basins for parking lot
			Total	0.26		
\\\	al C					
vvetidi	na Summary					
	Potentially		Direction from	Area	l	
ID	Jurisdictional	Туре	Interchange	(ac.)	Notes	
W1	Yes	PEM	Southwest	0.02	Adjacent to T1	
W2	Yes	PEM	Southwest	0.02	Abutting T1	
W3	Yes	PEM	Northwest	0.01	Abutting T7	
W4	Yes	PEM	Northwest	0.09	Abutting T7	
			Total Wetlands	1.04		

1 6.0 References

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10	
11	U.S. Geological Survey. 2021. Fulton, Missouri, Quadrangle. TopoView. 7.5-Minute Topographic Series.
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17	
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20	August.
21	
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26	https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1316620.html
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28	USDA. 2021b. 2020 Wetland Indicator Status List, Version 3.5. PLANTS Database. Natural Resource
29	Conservation Service. Accessed on November 18.
30	https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1316620.html
31	
32	U.S. Fish and Wildlife Service. 2021. National Wetlands Inventory Online Mapper. Accessed on
33	December 1. https://www.fws.gov/wetlands/data/mapper.html.

APPENDIX A

Site Vicinity Map USGS Topographic/National Wetlands Inventory/Soil Survey Map Waters of the U.S. Map

Figure 1: Site Vicinity Map





Figure 2: USGS Topographic/National Wetlands Inventory/Soil Survey Map









Figure 4: Photo Location Map





Interchange Improvements at the US 54/I-70 interchange in	FEATURE	Т3	Photo #: 3
Kingdom City Waters of the U.S. Delineation	NOTES	T3 is an unnamed potential intermittent non-RPW	Direction:
Date: November 12, 2021	NOIES	inoutary to the southeast of the interentange.	w
Interchange Improvements at	FEATURE	T4	Photo #: 4
<i>Kingdom City</i> <i>Waters of the U.S. Delineation</i> Date: November 12, 2021	NOTES	T4 is an unnamed potential ephemeral non-RPW tributary to the east of the interchange.	Direction: S

Interchange Improvements at the US 54/I-70 interchange in	FEATURE	Т5	Photo #: 5
Kingdom City Waters of the U.S. Delineation	NOTES	T5 is an unnamed potential intermittent RPW tributary to the northeast of the interchange	Direction:
Date: November 12, 2021	NOTES	anounary to the northeast of the interentinger	Е
Interchange Improvements at	FEATURE	Τ6	Photo #: 6
<i>Kingdom City</i> <i>Waters of the U.S. Delineation</i> Date: November 12, 2021	NOTES	T6 is McKinney Creek. It is an intermittent RPW tributary to the north of the interchange.	Direction: W

Interchange Improvements at the US 54/1-70 interchange in Kingdom City Waters of the U.S. Delineation FEATURE T7 is an unnamed potential ephemeral non-RPW tributary to the northwest of the interchange. Direction: Date: November 12, 2021 NOTES E				
Kingdom City Waters of the U.S. Delineation NOTES T7 is an unnamed potential ephemeral non-RPW tributary to the northwest of the interchange. Direction: Date: November 12, 2021 E	Interchange Improvements at the US 54/I-70 interchange in	FEATURE	Τ7	Photo #: 7
Date: November 12, 2021 E	Kingdom City Waters of the U.S. Delineation	NOTES	T7 is an unnamed potential ephemeral non-RPW tributary to the northwest of the interchange.	Direction:
	Date: November 12, 2021			E
Interchange Improvements at FEATURE T8 Photo #: 8	Interchange Improvements at	FEATURE	T8	Photo #: 8
the US 54/I-70 interchange in Kingdom City T8 is an unnamed potential ephemeral non-RPW Direction: Waters of the U.S. Delineation NOTES T8 is an unnamed potential ephemeral non-RPW Direction:	the US 54/I-70 interchange in Kingdom City Waters of the U.S. Delineation	NOTES	T8 is an unnamed potential ephemeral non-RPW tributary to the northwest of the interchange. T8 is located at one of the four PUBGx NWI features. The	Direction:

Interchange Improvements at the US 54/I-70 interchange in	FEATURE	W1	Photo #: 9
Kingdom City Waters of the U.S. Delineation	NOTES	W1 is a PEM wetland located adjacent to T1 and at an PUBGx NWI feature. It is located southwest of	Direction:
Date: November 12, 2021		the interchange in between two parking lots.	NE
Interchange Improvements at the US 54/I-70 interchange in	FEATURE	W2	Photo #: 10
<i>Kingdom City</i> <i>Waters of the U.S. Delineation</i> Date: November 12, 2021	NOTES	W2 is a PEM wetland abutting T1. It is located southwest of the interchange to the west of a parking lot.	Direction: SW

Interchange Improvements at the US 54/I-70 interchange in	FEATURE	W3	Photo #: 11
Kingdom City Waters of the U.S. Delineation	NOTES	W3 is a small PEM wetland abutting T7. The wetland is located northwest of the interchange	Direction:
Date: November 12, 2021		where T7 enters a culvert under US 54.	Е
Interchange Improvements at the US 54/I-70 interchange in	FEATURE	W4	Photo #: 12
<i>Kingdom City</i> <i>Waters of the U.S. Delineation</i> Date: November 12, 2021	NOTES	W4 is a PEM wetland abutting T7. It is located along I-70 northwest of the interchange.	Direction: W

Interchange Improvements at the US 54/I-70 interchange in	FEATURE	OW 1	Photo #: 13
Kingdom City Waters of the U.S. Delineation	NOTES	OW1 is an open water area. OW2 was inaccessible for a photo. This photo represents a typical open	Direction:
Date: November 12, 2021	NOTES	water feature in the study area.	SE
Interchange Improvements at	FEATURE	Roadside Ditch Wetland (RDW)	 Photo #: 14
the US 54/1-70 interchange in Kingdom City Waters of the U.S. Delineation Date: November 12, 2021	NOTES	There are ten RDWs within the study area. The RDWs would not be present except for the development of roadways where water pools in non-jurisdictional roadside ditches. The RDWs have similar vegetation consisting of nearly 100% cover of cattail (<i>Typha latifolia</i>) or are sparsely vegetated.	Direction: W

Interchange Improvements at the US 54/I-70 interchange in	FEATURE	NWI area near W2	Photo #: 15
Kingdom City Waters of the U.S. Delineation	NOTES	This photo shows one of the four PUBGx NWI features. Most of the area has been converted to	Direction:
Date: November 12, 2021		parking lot. The area did not exhibit wetland characteristics.	SW
Interchange Improvements at the US 54/I-70 interchange in	FEATURE	NWI Area near gas station	Photo #: 16
<i>Kingdom City</i> <i>Waters of the U.S. Delineation</i> Date: November 12, 2021	NOTES	This photo shows one of the four PUBGx NWI features. The area did not exhibit wetland characteristics.	Direction: E

Project/Site: I-70/54 Kingdom City NEPA Re	e-evaluation City/County:K	City/County:Kingdom City, Callaway			Sampling Date: 11/12/21		
Applicant/Owner: MoDOT	_	State	MO	Sampling Point: $\overline{\mathrm{W1}}$.	·1		
Investigator(s): C. Thomas PWS	Section, Tow	Section, Township, Range:T48NR09WS17					
Landform (hillslope, terrace, etc.): ditch	Local relief (o	concave, convex, none	e):concave				
Slope (%): 3 Lat: <u>38.9409</u>	55 Lo	ng: <u>-91.942969</u>		Datum:	WGS 84		
Soil Map Unit Name: Armstrong loam, 5 to 9 p	ercent slopes, eroded		NWI classificat	tion: PUBGx			
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes 🖲	No 🔿 (If no	explain in Rer	marks.)			
Are Vegetation Soil or Hydrology	significantly disturbed?	Are "Normal Circ	umstances" pre	esent? Yes 🖲	No 🔿		
Are Vegetation Soil or Hydrology	naturally problematic?	(If needed, explai	n any answers	in Remarks.)			
SUMMARY OF FINDINGS - Attach sit	e map showing sampling	point locations,	transects, i	mportant featu	ires, etc.		
Hydrophytic Vegetation Present? Yes (No 🔿						
Hydric Soil Present? Yes (No Is the	Sampled Area					
Watland Hydrology Present? Veg	No within	a Wetland?	Yes 🔘	No O			

	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:			
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominant	Species			
1				That Are OBL, FACW	l, or FAC:	1		(A)
2.				Total Number of Dom	vinant			
3.				Species Across All St	trata:	1		(B)
4.					- .	-		. ,
Total Cove	r: 0 %			- Percent of Dominant		100 (2007	(
Sapling/Shrub Stratum (Plot size: 15' radius)	1. 0 %				, 011 AC.	100.0	J U %	(A/D)
1.				Prevalence Index w	orksheet	:		
2.	_			Total % Cover of	:	Multiply	by:	_
3.				OBL species	75	x 1 =	75	
4.				FACW species		x 2 =	0	
5				FAC species		x 3 =	0	
Total Cove	r. 0 %			FACU species		x 4 =	0	
Herb Stratum (Plot size: 5' radius)	. 0 /0					x 5 =	0	
1.Typha latifolia	75	Ves	OBI	Caluma Tatalar		(A)	0	(D)
2.		105			75	(A)	15	(D)
3				Prevalence Inde	= B/A	-	1.00	
<u>4</u>				Hydrophytic Vegeta	tion Indie	cators:		-
5				Dominance Test	is >50%			
0. 				Prevalence Index	 is ≤3.0¹ 			
0.					dantations	¹ (Provide s	unnorti	na
/				- data in Remarks or on a separate sheet)			iig	
8				Problematic Hvd	rophytic \	/egetation ¹ (Explain)
Total Cover	r: 75 %			,				,
				¹ Indicators of hydric	soil and v	wetland hvd	rology i	must
l				be present.		irotiana nya	lology i	naot
2				-				
Total Cover	r: 0 %			Hydrophytic				
% Bare Ground in Herb Stratum25 %				Present?	′es 🔘	No 🔿		
Remarks: Vegetation is hydrophytic.								

Profile Des	cription: (Describe	to the de	pth needed to do	ocument the	indicator	or confirm	m the absence of in	ndicators.)				
Depth Matrix Redox Features												
(inches)	Color (moist)	<u>%</u> Color (moist) <u>%</u> Type ¹ Loc ²			Texture ³	Remarks						
0-2	10YR3/1	100					SiCL					
2-12	10YR3/1	90	10YR4/6		C	M	CL					
	101100/1		1011(10		<u> </u>		<u></u>					
'Type: C=C	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix.											
Soll Texture	³ Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.											
Hydric Soil I	ndicators: (Applicab	ole to all LF	RRs, unless other	wise noted.)			Indicators for P	roblematic Hydric Soils:				
	ninedon (A2)		Sandy G	leyed Matrix	(S4)		Dark Surfa	re(S7)				
	listic (A3)		Sandy R	edox (55) Motrix (S6)				anese Masses (F12)				
Hydrog	en Sulfide (A4)			Mucky Miner	al (F1)		Very Shallo	ow Dark Surface (TF12)				
Stratifie	d Layers (A5) (LRR	C)		Gleved Matri	ix (F2)		Other (Exp	lain in Remarks)				
2 cm M	uck (A10)			d Matrix (F3)							
Deplete	ed Below Dark Surfac	e (A11)	Redox [Dark Surface	, e (F6)							
Thick D	ark Surface (A12)		Deplete	d Dark Surfa	ace (F7)		⁴ Indicators of hy	drophytic vegetation and				
Sandy I	Mucky Mineral (S1)		Redox [Depressions	(F8)		wetland hyd	rology must be present				
5cm Mu	ucky Peat or Peat (S3	3)					uniess distu	irbed or problematic.				
Restrictive	Layer (if present):											
Type:												
Depth (in	nches):						Hydric Soil Pres	sent? Yes 💿 🛛 No 🔿				
Remarks: s	oils are hydrig											
5	ons are nyunc.											
HYDROLC)GY											
Wetland Hy	drology Indicators:	:										
Primary Indi	cators (any one indic	ator is suf	ficient)				Secondar	y Indicators (2 or more required)				
X Surface	Water (A1)		Water	Stained Leav	/es (B9)		Soil S	urface Cracks (B6)				
High Wa	ater Table (A2)			Fauna (B1)	3)		DrainagePatterns (B10)					
X Saturatio	on (A3)			quatic Plants	s (B14)		Dry-Season Water Table (C2)					
Water M	larks (B1)			en Sulfide C)dor (C1)		Cravfi	sh Burrows (C8)				
	nt Deposits (B2)			ed Rhizosphe	eres onLivir	na Roots (C3) Satura	ation Visible on Aerial Imagery (C9)				
Drift Der	posits (B3)		Presen	ce of Reduc	ed Iron (C4	-) -)	Stunte	ed or Stressed Plants (D1)				
	at or Crust (B4)		Recent	Iron Reduct	tion in Tilleo	, d Soils (C6	3) Geom	orphic Postition (D2)				
Iron Dep	oosits (B5)		Thin M	uck Surface	(C7)			Neutral Test (D5)				
Inundati	on Visible on Aerial I	magerv (B	(7) Gauge	or Well Data	a (D9)							
	Vegetated Concave	e Surface ((B8) Other (Explain in R	emarks)							
Field Obser	rvations			· •								
Surface Wa	ter Present? Y	es 💽	No O Depth	n (inches):	3							
Water Table	Present?		No C Depth	(inches):	5							
Saturation F	Present?	(00)		(inches):	12							
(includes ca	pillary fringe)	es 🕒		(incres)	12	Wet	land Hydrology Pro	esent? Yes 💿 No 🔿				
Describe Re	ecorded Data (stream	n gauge, m	nonitoring well, ae	rial photos, p	previous ins	spections),	, if available:					
Remarks:		. ,										
W	euand nydrology	is present	L.									

Project/Site: I-70/54 Kingdom City NEPA Re-ev	aluation City/County	Kingdom City, Cal	llaway	Sampling Date: 11/12/21					
Applicant/Owner: MoDOT		State:MO Sampling Point:W							
Investigator(s): C. Thomas PWS	Section, To	wnship, Range: T48N	R09WS17						
Landform (hillslope, terrace, etc.): roadside	Local relief	(concave, convex, no	ne):none						
Slope (%): 4 Lat: <u>38.940958</u>	I	ong: <u>-91.943182</u>		Datun	n:WGS 84				
Soil Map Unit Name: Armstrong loam, 5 to 9 percent slopes, eroded NWI classification:none									
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)									
Are Vegetation Soil or Hydrology	significantly disturbed?	Are "Normal Ci	rcumstances" p	resent? Yes 🖲	No 🔿				
Are Vegetation Soil or Hydrology	naturally problematic?	(If needed, expl	lain any answer	s in Remarks.)					
SUMMARY OF FINDINGS - Attach site n	nap showing sampling	g point locations	, transects,	important fea	tures, etc.				
Hydrophytic Vegetation Present? Yes	No 🖲								
Hydric Soil Present? Yes	No 💿 Is th	e Sampled Area							
Wetland Hydrology Present? Yes O	No 💿 🛛 with	within a Wetland? Yes 🔿 No 💿							
Remarks: Data form is for the out-point for W1.	L								

Tree Stratum (Plot size: 30' radius) % Cover Species? Status Number of Dominant Species 1.	[/		Dominant	Indicator	Dominance Test worksheet:					
1. That Are OBL, FACW, or FAC: 0 (A) 2. Total Number of Dominant Species Across All Strata: 1 (B) 3. Total Number of Dominant Species Across All Strata: 1 (B) 4. Percent of Dominant Species Across All Strata: 1 (B) 5. Total Cover: 0 % Prevalence Index worksheet: Not Prevalence Index worksheet: 2. Total Score of: Multiply by: OBL species x 1 = 0 4. Total Cover: 0 % FACW species x 2 = 0 5. Total Cover: 0 % FACW species x 3 = 0 FACU species 115 x 4 = 460 Prevalence Index worksheet: 0 2. Total Cover: 0 % FACU species x 5 = 0 4. Sorghum halepense 10 No FACU Prevalence Index is 5.0% Prevalence Index is 5.0% </td <td colspan="2">Tree Stratum (Plot size: 30' radius)</td> <td>Species?</td> <td>Status</td> <td colspan="5">Number of Dominant Species</td>	Tree Stratum (Plot size: 30' radius)		Species?	Status	Number of Dominant Species					
2.	1				That Are OBL, FACW, or FAC: 0 (A)					
3. Species Across All Strata: 1 (B) 4. Species Across All Strata: 1 (B) 4. Species Across All Strata: 1 (B) 5. Total Cover: 0 % Prevalence Index worksheet: Total % Cover of: Multiply by: 3. . . OBL species x 1 = 0 Prevalence Index worksheet: 5. . . . OBL species x 2 = 0 Prevalence Index worksheet: Prevalence Index worksheet: .	2.				Total Number of Dominant					
4.	3.	_			Species Across All Strata: 1 (B)					
Sapling/Shrub Stratum (Plot size: 15' radius) Total Cover: 0 % Prevalence Index worksheet: 1.	4.									
Sapling/Shrub Stratum (Plot size: 15' radius) Other of the other other of the other other of the other ot	Total Cove	r: 0 %			- Percent of Dominant Species That Are OBL_EACW_or_EAC: 0.00 v/ (A/B)					
1. Prevalence Index worksheet: 2. Total % Cover of: Multiply by: 3. OBL species x 1 = 4. FACW species x 2 = 5. Total Cover: 0 % Herb Stratum (Plot size: 5' radius) FACU species x 3 = 1. Schedonorus arundinaceus 80 Yes FACU 2. Dipsacus fullonum 20 No FACU 3. Sorghum halepense 10 No FACU 4. Trifolium pratense 5 No FACU 5. Omerational cover: 115 % A 460 (B) 4. Trifolium pratense 5 No FACU Prevalence Index = B/A = 4.00 7. Operations Total Cover: 115 % Prevalence Index is \$3.0 ¹ Dominance Test is \$50% Prevalence Index is \$3.0 ¹ Prevalence Ind	Sapling/Shrub Stratum (Plot size: 15' radius)									
2. Total % Cover of: Multiply by: 3. Multiply by: Multiply by: 4. Multiply by: OBL species x 1 = 0 5. FACW species x 2 = 0 5. FACW species x 3 = 0 FAC species x 3 = 0 FACU species 115 x 4 = 460 UPL species x 5 = 0 Column Totals: 115 (A) 3. Sorghum halepense 10 No 4. Trifolium pratense 5 No 5. Multiply by: Dominance Test is >50% 6. Prevalence Index is ≤3.0 ¹ 7. Moody Vine Stratum (Plot size: 30' radius) 1. Total Cover: 115% 1. Total Cover: 0 %	1.				Prevalence Index worksheet:					
3.	2.				Total % Cover of: Multiply by:					
4.	3.				OBL species x 1 = 0					
5. Total Cover: 0 % Herb Stratum (Plot size: 5' radius) Total Cover: 0 % 1. Schedonorus arundinaceus 80 Yes FACU 2. Dipsacus fullonum 20 No FACU 3. Sorghum halepense 10 No FACU 4. Trifolium pratense 5 No FACU 5. O No FACU Prevalence Index = B/A = 4.00 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is $\leq 3.0^{1}$ Dominance Test is >50% 6. Total Cover: 115% Total Cover: 115% Hydrophytic Vegetation' (Explain) 1. Total Cover: 0 % Hydrophytic vegetation' (Explain) Indicators of hydric soil and wetland hydrology must be present. 2. Total Cover: 0 % Hydrophytic Vegetation indicators	4.				FACW species x 2 = 0					
Total Cover:0 %FACU species115 $x 4 = 460$ Herb Stratum (Plot size: 5' radius)1.Schedonorus arundinaceus80YesFACUVPL species $x 5 = 0$ 2.Dipsacus fullonum20NoFACUColumn Totals:115(A)460(B)3.Sorghum halepense10NoFACUPrevalence Index = B/A =4.004.Trifolium pratense5NoFACUHydrophytic Vegetation Indicators:5Dominance Test is >50%678812456781212. <td>5</td> <td></td> <td></td> <td></td> <td>FAC species $x 3 = 0$</td>	5				FAC species $x 3 = 0$					
Herb Stratum (Plot size: 5' radius)Now Form (Plot size: 5' radius) $Vest = 115$ $Vest = 100$ 1Schedonorus arundinaceus80YesFACUColumn Totals:115(A)460(B)2Dipsacus fullonum20NoFACUPrevalence Index = B/A =4.003.Sorghum halepense10NoFACUHydrophytic Vegetation Indicators:4.Trifolium pratense5NoFACUHydrophytic Vegetation Indicators:5Dominance Test is >50%6787812478121234561. <td>Total Cove</td> <td>r: 0 %</td> <td></td> <td></td> <td>FACU species $115 \times 4 = 460$</td>	Total Cove	r: 0 %			FACU species $115 \times 4 = 460$					
1. Schedonorus arundinaceus 80 Yes FACU Column Totals: 115 (A) 460 (B) 2. Dipsacus fullonum 20 No FACU Prevalence Index = B/A = 4.00 3. Sorghum halepense 10 No FACU Hydrophytic Vegetation Indicators: 4. Trifolium pratense 5 No FACU Hydrophytic Vegetation Indicators: 5.	Herb Stratum (Plot size: 5' radius)	0 /0			UPL species $x 5 = 0$					
2. Dipsacus fullonum 20 No FACU Prevalence Index = B/A = 4.00 3. Sorghum halepense 10 No FACU Hydrophytic Vegetation Indicators: 4. Trifolium pratense 5 No FACU Hydrophytic Vegetation Indicators: 5. 5 No FACU Hydrophytic Vegetation Indicators: Dominance Test is >50% 6. 7. 9 Prevalence Index is ≤3.01 Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 8. 7. 9 Problematic Hydrophytic Vegetation 1 (Explain) Woody Vine Stratum (Plot size: 30' radius) 115 % 1 1 1. 7 115 % 1 1 2. Total Cover: 0 % Hydrophytic Vegetation 1 (Explain)	1. Schedonorus arundinaceus	80	Yes	FACU	$\begin{array}{c} c = c + c + c + c + c + c + c + c + c +$					
Image: Sorghum halepense 10 No FACU Prevalence Index = $B/A = 4.00$ 4. Trifolium pratense 5 No FACU Hydrophytic Vegetation Indicators: 5. 0 No FACU Hydrophytic Vegetation Indicators: 6. 0 0 Prevalence Index is $\leq 3.0^{1}$ Dominance Test is $\geq 50\%$ 7. 0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) 8. 0 Total Cover: 115 % 1 1 1. 0 % Hydrophytic Vegetation Indicators of hydric soil and wetland hydrology must be present.	2. Dinsacus fullonum	$-\frac{00}{20}$	No	FACU	115 (A) 460 (b)					
Sorghum hatepense 10 No FACC 4. Trifolium pratense 5 No FACU 5. 0 FACU Dominance Test is >50% 6.	3. Souch um halonoma		No	FACU	Prevalence Index = $B/A = 4.00$					
1 Prijolitum pratense 3 100 FACC Dominance Test is >50% 5. Prevalence Index is ≤3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 8. Total Cover: 115% 1. Problematic Hydrophytic Vegetation ¹ (Explain) 1. Indicators of hydric soil and wetland hydrology must be present. Total Cover: 0 %	4. Trifelium natepense	5	No	FACU	Hydrophytic Vegetation Indicators:					
6. Prevalence Index is ≤3.01 7. Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 8. Problematic Hydrophytic Vegetation1 (Explain) Woody Vine Stratum (Plot size: 30' radius) 115 % 1. 1 Indicators of hydric soil and wetland hydrology must be present. Total Cover: 0 %	5			FACU	Dominance Test is >50%					
7.	6				Prevalence Index is ≤3.0 ¹					
Normalize Total Cover: 115% Woody Vine Stratum (Plot size: 30' radius) 1. Indicators of hydric soil and wetland hydrology must be present. 2. Total Cover: 0%	7				Morphological Adaptations ¹ (Provide supporting					
o. Total Cover: 115% Woody Vine Stratum (Plot size: 30' radius) 115% 1. 'Indicators of hydric soil and wetland hydrology must be present. 2. Total Cover: 0%	7		·		data in Remarks or on a separate sheet)					
Woody Vine Stratum (Plot size: 30' radius) 115% 1. 1Indicators of hydric soil and wetland hydrology must be present. 2. Total Cover: 0%	o				Problematic Hydrophytic Vegetation ¹ (Explain)					
1. 1 </td <td>I otal Cove Woody Vine Stratum (Plot size: 30' radius)</td> <td>r: 115%</td> <td></td> <td></td> <td></td>	I otal Cove Woody Vine Stratum (Plot size: 30' radius)	r: 115%								
2 be present be present.					¹ Indicators of hydric soil and wetland hydrology must					
Total Cover: 0 % Hydrophytic Vegetation	2				be present.					
	Z				- Hydrophytic					
T O Y O Y O Y O Y O Y O Y O Y O Y O Y O	Total Cove	. 0 %			Vegetation					
% Bare Ground in Herb Stratum 0 % Present? Yes No (% Bare Ground in Herb Stratum0 %				Present? Yes No (
Remarks:	Remarks:									
vegetation is not nydrophytic.	vegetation is not hydrophytic.									

SOIL

Profile Des	cription: (Describ	e to the dept	h needed to docu	ument the i	ndicator of	or confirm	the absence of in	dicators.)		
Depth (inches)	Matrix	0/	Red	ox Features	S Turne 1	1002	Touturo ³	Demostro		
(inches)			Color (moist)	%	Туре	LOC		Remarks		
	<u>10YR3/1</u>						SiCL			
6-20	<u>10YR3/2</u>	100					SiCL			
¹ Type: C=C	Concentration, D=D	epletion, RM=l	Reduced Matrix.	² Location	: PL=Pore	Lining, R	C=Root Channel, M	=Matrix.		
³ Soil Textur	es: Clay, Silty Clay	v, Sandy Clay,	Loam, Sandy Cla	y Loam, Sa	ndy Loam	, Clay Loa	m, Silty Clay Loam,	Silt Loam, Silt, Loamy Sand, Sand.		
Hydric Soil	Indicators: (Applic	able to all LRR	s, unless otherwis	se noted.)			Indicators for Pr	oblematic Hydric Soils:		
	N (A1) Eninadan (A2)		Sandy Gley	/ed Matrix (S	64)			le Redox (A16)		
	Listic (A3)		Sandy Red	ox (S5)				e (57) nese Masses (F12)		
	$\lim_{n \to \infty} C(A3)$			latrix (S6)				w Dark Surface (TE12)		
Stratifie	ed Lavers (A5) (LRI	R C)		icky winera	(F1) (F2)		Other (Expl	ain in Remarks)		
2 cm M	luck (A10))		Matrix (E3)	(Г2)					
Deplete	ed Below Dark Surf	ace (A11)	Redox Da	rk Surface ((F6)					
Thick D	Dark Surface (A12)		Depleted I	Dark Surfac	e (F7)		⁴ Indicators of hy	drophytic vegetation and		
Sandy	Mucky Mineral (S1))	Redox De	pressions (I	F8)		wetland hydr	ology must be present		
5cm Mi	ucky Peat or Peat (S3)					unless distui	rbed or problematic.		
Restrictive	Layer (if present)	:								
Type:										
Depth (ir	nches):						Hydric Soil Pres	ent? Yes 🔿 No 🖲		
Remarks: S	oils are not hydr	ic								
	int for figure									
HYDROLO	DGY									
Wetland Hy	drology Indicator	s:								
Primary Ind	icators (any one ind	dicator is suffic	ient)				Secondary	/ Indicators (2 or more required)		
Surface	Water (A1)		Water Sta	ained Leave	es (B9)		Soil Su	urface Cracks (B6)		
High Wa	ater Table (A2)		Aquatic F	auna (B13)			Draina	gePatterns (B10)		
Saturati	on (A3)		True Aqu	atic Plants ((B14)		Dry-Season Water Table (C2)			
Water N	/larks (B1)		Hydroger	Sulfide Od	lor (C1)			sh Burrows (C8)		
Sedime	nt Deposits (B2)		Oxidized	Rhizospher	es onLivin	g Roots (0	C3) Satura	tion Visible on Aerial Imagery (C9)		
Drift De	posits (B3)		Presence	of Reduce	d Iron (C4))	Stunte	d or Stressed Plants (D1)		
Algal Ma	at or Crust (B4)			on Reductio	on in Tilled	Soils (C6)		orphic Postition (D2)		
	posits (B5)			k Surface (0	C7)		FAC-N	leutral Test (D5)		
	ion Visible on Aeria	I Imagery (B7)		Well Data	(D9) morke)					
Eigld Obso	y Vegetated Conca	ve Surface (B8		piain in Re	marks)					
Surface Wa	tor Procent?		Denth (
			Depth (i	ncnes):						
Vvater Table	e Present?	Yes () N	o Depth (i	ncnes):						
(includes ca	apillary fringe)	Yes () N		ncnes):		Wetla	and Hydrology Pre	esent? Yes 🔿 No 💿		
Describe Re	ecorded Data (strea	am gauge, mor	nitoring well, aeria	l photos, pr	evious ins	pections),	if available:	<u> </u>		
Remarks:	7 /1 11 1 1	• .								
%	etland hydrology	/ is not prese	nt.							

Project/Site: I-70/54 Kingdom City NEPA Re	e-evaluation City/County:K	ingdom City, Callaway	Sampling Date: 11/12/21			
Applicant/Owner: MoDOT		State:MO Sampling Point:W2-1				
Investigator(s): C. Thomas PWS	Section, Towr	ship, Range: T48NR09WS	517			
Landform (hillslope, terrace, etc.): ditch	Local relief (c	oncave, convex, none): _{con}	cave			
Slope (%): 3 Lat: <u>38.9409</u>	55 Lor	ng: <u>-91.942969</u>	Datum: WGS 84			
Soil Map Unit Name: Armstrong loam, 5 to 9 p	ercent slopes, eroded	NWI cl	assification: PUBGx			
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes 🖲	No 🔿 (If no, expla	in in Remarks.)			
Are Vegetation Soil or Hydrology	significantly disturbed?	ly disturbed? Are "Normal Circumstances" present? Yes No				
Are Vegetation Soil or Hydrology	naturally problematic?	natic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach sit	e map showing sampling	point locations, trans	ects, important features, etc.			
Hydrophytic Vegetation Present? Yes (No 🔿					
Hydric Soil Present? Yes (No Is the	Is the Sampled Area				
Watand Hydrology Propert?	No within	a Wetland? Yes				

	Absolute	Dominant	Indicator	Dominance Test workshe	et:		
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominant Speci	es		
1				That Are OBL, FACW, or F	4C: 1	1	(A)
2				Total Number of Dominant			
3				Species Across All Strata:	1	l	(B)
4				- Percent of Dominant Specie	25		
Total Cove Sapling/Shrub Stratum (Plot size: 15' radius)	r: 0 %			That Are OBL, FACW, or F	AC: 100).00%	(A/B)
1.				Prevalence Index worksho	eet:		
2.				Total % Cover of:	Multip	ly by:	_
3.				OBL species 85	x 1 =	85	
4.				FACW species	x 2 =	0	
5.				FAC species	x 3 =	0	
Total Cover	: 0 %			FACU species	x 4 =	0	
Herb Stratum (Plot size: 5' radius)	0			UPL species	x 5 =	0	
¹ .Typha latifolia	85	Yes	OBL	Column Totals: 85	(A)	85	(B)
2.					()	05	· · /
3.				Prevalence Index = E	/A =	1.00	
4.				Hydrophytic Vegetation Ir	idicators:		
5.				Dominance Test is >50	%		
6.				A Prevalence Index is ≤3	.0 ¹		
7.				Morphological Adaptati	ons ¹ (Provide	supporti	ng
8.				data in Remarks or	on a separate	sheet)	
Total Cover	85 %			- Problematic Hydrophyt	c Vegetation	' (Explain	1)
Woody Vine Stratum (Plot size: 30' radius)	05 /0			4			
1				Indicators of hydric soil ar	id wetland hy	/drology i	must
2							
Total Cover	: 0 %			Hydrophytic			
% Bare Ground in Herb Stratum15 %				Present? Yes) No ()	
Remarks: Vegetation is hydrophytic.							

Profile Des	cription: (Describe	to the de	pth need	led to docun	nent the	indicator	or confirr	n the absence of i	indicators.)			
Depth (inches)	Depth Matrix		Colo	Redox r (moist)	Feature %	S Type ¹		Texture ³	Remarks			
		100	000									
	$\frac{104 \text{ K}3/1}{104 \text{ K}3/1}$					~		SICL				
	<u>10YR3/1</u>	90	<u>10YR4</u>	/6	10	C	<u>M</u>	CL				
Type: C-Concentration D-Depletion PM-Reduced Metrix												
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. ³ Soil Textures: Clay, Sith, Clay, Sandy Clay, Learn, Sandy Clay, Learn, Sith, Sender, Sith, Sender, Sender, State, Sender, Sith, Sender, State, Sender, Sender, State, Sender, Sender												
Soll Textur	es: Clay, Slity Clay,	Sandy Cla	y, Loam,	Sandy Clay	Loam, S	andy Loam	, Clay Loa	am, Slity Clay Loan	n, Silt Loam, Silt, Loamy Sand, Sand.			
Hydric Soil	Indicators: (Applicat	ble to all Li	KRS, UNIE	ss otherwise	noted.)			Indicators for I	roblematic Hydric Soils: irie Redox (A16)			
	Epipedon (A2)			Sandy Gleye	Matrix	(S4)		Dark Surfa	ace (S7)			
Black H	listic (A3)		H	Stripped Ma	trix (S6)			Iron Mang	anese Masses (F12)			
Hydrog	en Sulfide (A4)		H	Loamy Much	v Miner	al (F1)		Very Shall	low Dark Surface (TF12)			
Stratifie	ed Layers (A5) (LRR	C)	H	Loamy Gley	ed Matri	x (F2)		Other (Exp	plain in Remarks)			
2 cm M	luck (A10)			Depleted Ma	atrix (F3))						
	ed Below Dark Surfac	ce (A11)	\mathbf{X}	Redox Dark	Surface	(F6)		4				
	Dark Surface (A12)			Depleted Da	irk Surfa	ice (F7)		Indicators of h	hydrophytic vegetation and			
	ucky Peat or Peat (ST)	3)		Redox Depr	essions	(F8)		unless dist	urbed or problematic.			
Restrictive	Laver (if present):	0)							•			
Type	Luyer (il present).											
Denth (ir	nches):							Hydric Soil Pre	sent? Yes No			
Remarks:												
S S	oils are hydric.											
HYDROLO	DGY											
Wetland Hy	drology Indicators	•										
	icators (any one indi	• cator is suf	ficient)					Seconda	rv Indicators (2 or more required)			
X Surface	Water (A1)	54101 15 501		Water Stain	ed Leav	es (B9)			Surface Cracks (B6)			
High Wa	ater Table (A2)			Aquatic Fat	ina (B13	3)		X Drain	agePatterns (B10)			
X Saturati	on (A3)			True Aquati	c Plants	, (B14)		Dry-S	Season Water Table (C2)			
Water N	larks (B1)			 │Hydrogen S	Sulfide C	dor (C1)		Crayi	fish Burrows (C8)			
Sedime	nt Deposits (B2)			Oxidized RI	nizosphe	eres onLivir	ng Roots (C3) 🗍 Satur	ration Visible on Aerial Imagery (C9)			
Drift De	posits (B3)			Presence o	f Reduc	ed Iron (C4)	Stunt	ed or Stressed Plants (D1)			
Algal Ma	at or Crust (B4)			Recent Iron	Reduct	ion in Tilleo	Soils (C6	5) 🗌 Geor	norphic Postition (D2)			
Iron De	oosits (B5)			Thin Muck	Surface	(C7)		🗙 FAC-	Neutral Test (D5)			
🗌 🗌 Inundati	ion Visible on Aerial	lmagery (B	7)	Gauge or W	/ell Data	ı (D9)						
Sparsel	y Vegetated Concave	e Surface ((B8)	Other (Expl	ain in R	emarks)						
Field Obse	rvations											
Surface Wa	ter Present?	Yes 💽	No 🔿	Depth (inc	:hes):	3						
Water Table	e Present?	Yes 🔿	No 💽	Depth (inc	:hes):							
Saturation F	Present?	res 💽	No 🔿	Depth (inc	:hes):	12	Wot	land Hydrology P	resent? Ves 🔍 No 🔿			
Describe Re	ecorded Data (stream	n aauae. m	onitoring	well, aerial c	hotos, r	previous ins	pections).	if available:				
							,					
Remarks:												
W	etland hydrology	is present	•									

State:	MO Sampling Point:W2-2					
Section, Township, Range: T48NR0)9WS17					
Local relief (concave, convex, none)):none					
Slope (%): 4 Lat: <u>38.940971</u> Long: <u>-91.944724</u> Datum: V						
es, eroded N	IWI classification:none					
ne of year? Yes 💿 No 🔿 (If no, e	explain in Remarks.)					
ficantly disturbed? Are "Normal Circuit	sturbed? Are "Normal Circumstances" present? Yes 💿 No 🔿					
rally problematic? (If needed, explain	any answers in Remarks.)					
owing sampling point locations, tr	ransects, important features, etc					
Is the Sampled Area						
• within a Wetland?	within a Wetland? Yes O No 💿					
	State:] Section, Township, Range: <u>T48NR(</u> Local relief (concave, convex, none) Long: <u>-91.944724</u> S, eroded Ne of year? Yes No (If no, ificantly disturbed? Are "Normal Circu rally problematic? (If needed, explain wing sampling point locations, the sampled Area within a Wetland?					

[/		Dominant	Indicator	Dominance Test worksheet:					
Tree Stratum (Plot size: 30' radius)		Species?	Status	Number of Dominant Species					
1				That Are OBL, FACW, or FAC: 0 (A)					
2.				Total Number of Dominant					
3.				Species Across All Strata: 2 (B)					
4.									
 Total Cove	r: 0 %			- Percent of Dominant Species That Are OBL_EACW_or_EAC: 0.00 v/ (A/B)					
Sapling/Shrub Stratum (Plot size: 15' radius)									
1.				Prevalence Index worksheet:					
2.				Total % Cover of: Multiply by:					
3.				OBL species x 1 = 0					
4.				FACW species x 2 = 0					
5				FAC species x 3 = 0					
Total Cove	: 0 %			FACU species $115 \times 4 = 460$					
Herb Stratum (Plot size: 5' radius)	0 /0			UPL species $x 5 = 0$					
1. Schedonorus arundinaceus	75	Yes	FACU	Column Totals: 115 (A) 460 (B)					
2. Dipsacus fullonum	25	Yes	FACU						
3. Sorahum halenense	10	No	FACU	Prevalence Index = $B/A = 4.00$					
4. Trifolium pratansa	5	No	FACU	Hydrophytic Vegetation Indicators:					
5.				Dominance Test is >50%					
6.				Prevalence Index is ≤3.0 ¹					
7.				Morphological Adaptations ¹ (Provide supporting					
8				data in Remarks or on a separate sheet)					
UTotal Cava				Problematic Hydrophytic Vegetation ¹ (Explain)					
Woody Vine Stratum (Plot size: 30' radius)	· 115%								
1.				¹ Indicators of hydric soil and wetland hydrology must					
2.				be present.					
Total Cove	. 0 %			Hvdrophytic					
	. 0 /0			Vegetation					
% Bare Ground in Herb Stratum0 %				Present? Yes O No 💿					
Remarks: Vegetation is not hydrophytic									
vegetation is net ny arophytic.									

SOIL

Profile Des	cription: (Describ	e to the dept	h need	led to docu	nent the	indicator o	or confirn	n the absence of i	ndicators.)
Depth	Matrix			Redo	x Feature	s			
(inches)	Color (moist)	%	Colc	or (moist)	%	Туре¹	Loc ²	Texture ³	Remarks
0-4	10YR3/1	100						SiCL	
4-20	10YR3/2	100						SiCL	
					·				
$\frac{1}{1}$	oncentration D-D		Roduc	od Matrix					
³ Soil Textur	es: Clay Silty Clay	Sandy Clay	Loam	Sandy Clay	Localio	andy Loam	Clay Loa	C=ROOL Channel, N	Silt Loam Silt Loamy Sand Sand
	Indicators: (Applic	ble to all I PE	e unic		noted)	indy Loam,			roblematic Hydric Soils
Histosc	(A1)				d Matrix (Coast Prai	rie Redox (A16)
	Epipedon (A2)			Sandy Gleye	v (95)	54)		Dark Surfa	ice (S7)
Black H	listic (A3)			Stripped Ma	x(00)			Iron Manga	anese Masses (F12)
Hydrog	en Sulfide (A4)		H	Loamv Muc	kv Minera	al (F1)		Very Shall	ow Dark Surface (TF12)
Stratifie	ed Layers (A5) (LRF	R C)	H	Loamy Gley	ed Matrix	(F2)		Other (Exp	olain in Remarks)
2 cm M	luck (A10)			Depleted M	atrix (F3)	. ,			
Deplete	ed Below Dark Surfa	ace (A11)		Redox Dark	Surface	(F6)			
Thick D	Dark Surface (A12)			Depleted D	ark Surfa	ce (F7)		⁴ Indicators of h	ydrophytic vegetation and
Sandy	Mucky Mineral (S1)			Redox Dep	ressions	(F8)		wetland hyd	Irology must be present
	ucky Peat or Peat (53)							
Restrictive	Layer (if present)								
Type:									
Depth (ir	nches):							Hydric Soil Pre	sent? Yes 🔿 No 🖲
Remarks: S	oils are not hydri	c.							
HYDROLO	DGY								
Wetland Hy	drology Indicator	s:							
Primary Ind	icators (any one inc	licator is suffic	cient)					Secondar	y Indicators (2 or more required)
Surface	Water (A1)			Water Stai	ned Leav	es (B9)		Soil S	Surface Cracks (B6)
High Wa	ater Table (A2)			Aquatic Fa	una (B13)		Draina	agePatterns (B10)
Saturati	on (A3)			True Aqua	tic Plants	(B14)		Dry-S	eason Water Table (C2)
Water N	larks (B1)			Hydrogen	Sulfide O	dor (C1)		Crayfi	ish Burrows (C8)
Sedime	nt Deposits (B2)			Oxidized R	hizosphe	res onLivin	g Roots (0	C3) Satura	ation Visible on Aerial Imagery (C9)
Drift De	posits (B3)			Presence of	of Reduce	d Iron (C4)		Stunte	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)			Recent Iro	n Reducti	on in Tilled	Soils (C6) 🗌 Geom	norphic Postition (D2)
Iron De	oosits (B5)			Thin Muck	Surface (C7)		FAC-I	Neutral Test (D5)
Inundati	ion Visible on Aeria	l Imagery (B7)	Gauge or V	Vell Data	(D9)			
Sparsel	y Vegetated Conca	ve Surface (B	8)	Other (Exp	lain in Re	emarks)			
Field Obse	rvations								
Surface Wa	ter Present?	Yes 🔿 🛛 🛚	No 💽	Depth (in	ches):				
Water Table	e Present?	Yes 🔿 🛛 🛚	No 🔘	Depth (in	ches):				
Saturation F	Present?	Yes O		Depth (in	ches):				
(includes ca	apillary fringe)				· —		Wetl	and Hydrology Pr	esent? Yes 🔿 No 🖲
Describe Re	ecorded Data (strea	im gauge, mo	nitoring	y well, aerial	photos, p	revious insp	pections),	it available:	
Remarks:	etland hydrology	is not pres	ent						
**	shand nythology	is not press							

Project/Site: I-70/54 Kingdom City NEPA Re-ev	valuation City/County	Kingdom City, Cal	laway	Sampling Date: 11/12/21			
Applicant/Owner: MoDOT		Sta	e:MO	Sampling Point:W3-1			
Investigator(s): C. Thomas PWS	Section, To	wnship, Range: T48N	R09WS08				
Landform (hillslope, terrace, etc.): ditch	Local relief	Local relief (concave, convex, none): concave					
Slope (%): 3 Lat: <u>38.945219</u>	I	Long: _91.941557 Datum:WGS					
Soil Map Unit Name: Goss gravelly silt loam, 8 to	15 percent slopes		NWI classifica	ation:none			
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes (No 🔿 (lf n	o, explain in Re	emarks.)			
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No C							
Are Vegetation Soil or Hydrology	naturally problematic?	lematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS - Attach site	map showing sampling	g point locations	, transects,	important features, etc.			
Hydrophytic Vegetation Present? Yes 🕞	No 🔿						
Hydric Soil Present? Yes 🕥	No 🚫 Is th	e Sampled Area					
Wetland Hydrology Present? Yes	No 🔿 🛛 with	in a Wetland?	Yes 🔘	No O			

Tree Stratum (Plot size: 30' radius) % Cover Species Status 1.		Absolute	Dominant	Indicator	Dominance Test work	sheet:		
1. That Are OBL, FACW, or FAC: 1 (A) 2. Total Number of Dominant Species Across All Strata: 1 (B) 4. Species Across All Strata: 1 (B) 4. Species Across All Strata: 1 (B) 3. Total Cover: 0 % That Are OBL, FACW, or FAC: 100.00% (A/B) 1. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00% (A/B) 3. Total Cover: 0 % FAC Species x2 = 0 4. Species 100 x1 = 100 4. Species x2 = 0 FAC Species x3 = 0 5. Total Cover: 0 % FAC Species x4 = 0 UPL species x5 = 0 1. Typha latifolia 100 Yes Ost. Column Totals: 100 (A) 100 (B) 2. Total Cover: 0 % Prevalence Index is 53.0° Xes = 0 (Column Totals: 100 (B) (B) (Column Totals: 100 (A) (B)<	Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominant S	pecies		
2.	1				That Are OBL, FACW,	or FAC:	1	(A)
3.	2.				Total Number of Domin	ant		
4.	3.				Species Across All Stra	ta:	1	(B)
Sapling/Shrub Stratum (Plot size: 15' radius) Total Cover: 0 % Pervalence Index worksheet: 1. Total % Cover of: Multiply by: 0 2. 0 × 1 = 100 3. 0 FAC worksheet: 100 4. 0 % FAC worksheet: 100 5. 0 × 1 = 100 4. 0 % FAC species × 2 = 0 FAC species × 3 = 0 FAC species × 4 = 0 1. 100 Yes 08L Column Totals: 100 (B) 1. 100 Yes 08L Column Totals: 100 (A) 100 (B) 2. 100 Yes 08L OBL Column Totals: 100 (A) 100 (B) 2. 100 Yes 08L Column Totals: 100 (A) 100 (B) 2. 100 (A) 100 (B) Prevalence Index is 3.0.1 (A) (A) (A) (A) (A) (A)	4.						-	
Saping/Shrub Stratum (Plot size: 15' radius) Interview of the construction of the con	Total Cove	er: 0 %		·	- Percent of Dominant S		100.000/	(\ / D)
I. Prevalence Index worksheet: 2. Total % Cover of: Multiply by: 3. OBL species 100 x 1 = 100 4. FACW species x 2 = 0 5. Total Cover: 0 % FACU species x 3 = 0 1. Total Cover: 0 % FACU species x 4 = 0 1. Total Cover: 0 % FACU species x 5 = 0 1. Total Cover: 0 % Prevalence Index is 53.0° 100 (B) 2. Prevalence Index is 53.0° Hydrophytic Vegetation Indicators: X Dominance Test is >60% 4. Source Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) 1. Total Cover: 0 % Morphological adaptations' (Provide supporting data in Remarks or on a separate sheet) 1 1. Total Cover: 0 % Hydrophytic vegetation hydrology must be present. Vegetation Present? Yes No No	Sapling/Shrub Stratum (Plot size: 15' radius)	1. 0 %				JITAC.	100.00%	(A/D)
2.	1.				Prevalence Index wor	ksheet:		
3. OBL species 100 x 1 = 100 4. FACW species x 2 = 0 5. Total Cover: 0 % FAC species x 3 = 0 Herb Stratum (Plot size: 5' radius) Total Cover: 0 % FACU species x 4 = 0 1. Typha latifolia 100 Yes OBL Column Totals: 100 (A) 100 (B) 2. . </td <td>2.</td> <td></td> <td></td> <td></td> <td>Total % Cover of:</td> <td></td> <td>Multiply by:</td> <td></td>	2.				Total % Cover of:		Multiply by:	
4.	3.				OBL species 1	00 × 1	= 100)
5. Total Cover: 0 % FAC species x 3 = 0 1. Typha latifolia 100 Yes OBL Column Totals: 100 (A) 100 (B) 2. .<	4			·	FACW species	x 2	2 = 0	
Total Cover: 0 % Herb Stratum Plot size: 5' radius) 1. Typha latifolia 100 Yes 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0 8. 0 1. 0 Yoody Vine Stratum Plot size: 30' radius) 1. 100% 1. 100% Voody Vine Stratum 0 % Woody Vine Stratum 0 % Yes Ground in Herb Stratum 0 %	5				FAC species	х 3	s = 0	
Herb Stratum (Plot size: 5' radius) Intervention Intervention <td>S</td> <td>r: 0.0/</td> <td></td> <td>·</td> <td>- FACU species</td> <td>x 4</td> <td>0</td> <td></td>	S	r: 0.0/		·	- FACU species	x 4	0	
1. Typha latifolia 100 Yes OBL Column Totals: 100 (A) 100 (B) 2. 3. — — — — Column Totals: 100 (A) 100 (B) 3. — … <td>Herb Stratum (Plot size: 5' radius)</td> <td>. 0 %</td> <td></td> <td></td> <td></td> <td>× 5</td> <td>- 0</td> <td></td>	Herb Stratum (Plot size: 5' radius)	. 0 %				× 5	- 0	
100 1 cs 0 st. Column Totals: 100 (A) 100 (B) 2. 3.		100	Vac	ODI	OF L Species		0	
2. Prevalence Index = B/A = 1.00 3. Hydrophytic Vegetation Indicators: 5. Dominance Test is >50% 6. Prevalence Index is <3.01	¹ <u>Iypna latifolia</u>		res	OBL	Column Totals: 1	00 (A)	100) (B)
3. Interference index 2 minimum 1100 4. Hydrophytic Vegetation Indicators: 5. Dominance Test is >50% 6. Prevalence Index is ≤3.01 7. Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 8. Problematic Hydrophytic Vegetation1 (Explain) 1. Problematic Hydrophytic vegetation1 (Explain) 1. 1 2. Total Cover: 0 % Wegetation Present? Yes () No ()	2				Prevalence Index	= B/A =	1.0	0
4. Induction functions. 5.	3. 					n Indicat	0.01	0
5. > Dominance rest is >50% 6. > Prevalence Index is ≤3.01 7. > Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) 8. > Problematic Hydrophytic Vegetation1 (Explain) 1. > Problematic Hydrophytic Vegetation1 (Explain) 1. > 1 Indicators of hydric soil and wetland hydrology must be present. 8. > Problematic Hydrophytic Vegetation1 (Explain) 1. > 1 Indicators of hydric soil and wetland hydrology must be present. 8. > Present? Yes () No ()	4.					~ E00/	013.	
6.	5					>00%		
7. Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) 8. Total Cover: 100 % Woody Vine Stratum (Plot size: 30' radius) Total Cover: 100 % 1. Total Cover: 0 % Yotal Cover: 0 % Hydrophytic Vegetation ************************************	6					3≤3.0		
8.	7.				Morphological Ada	ptations' (l	Provide suppor	rting
Woody Vine Stratum (Plot size: 30' radius) 1. 1 2. Total Cover: 0 % Total Cover: 0 % Hydrophytic Vegetation Problematic Hydrophytic Vegetation (Explain) 1. 1 2. Total Cover: 0 % Hydrophytic Vegetation Present? Yes () No ()	8.							:
Woody Vine Stratum (Plot size: 30' radius) 100 % 1. 1 2. 1 Model in Herb Stratum 0 % Permarks: 0 %	Total Cove	r: 100%				onytic veg	etation (Expla	in)
1. 1. 1. 1. 2. Total Cover: 0 % We present. Hydrophytic Vegetation Present? Yes No	Woody Vine Stratum (Plot size: 30' radius)	100 /0						
2	1				Indicators of hydric sc	il and wet	land hydrology	/ must
Total Cover: 0 % % Bare Ground in Herb Stratum 0 % Permarks: Yes • No ·	2.				be present.			
% Bare Ground in Herb Stratum 0 % Permarks: Yes • No ·	Total Cove	r: 0 %			Hydrophytic			
	% Bare Ground in Herb Stratum 0.0%				Vegetation Present?		No	
Remarks.						, U		
Vegetation is hydrophytic.	Vegetation is hydrophytic.							

Profile Des	cription: (Describe	to the de	oth needed	l to docun	nent the	indicator	or confirr	n the absence of i	indicators.)
Depth	Matrix			Redox	Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
0-3	10YR3/1	100						SiCL	
3-12	10YR3/1	90	10YR 5/6		10	C	M	CL	
	1011071		1011070			<u> </u>	<u>1V1</u>		
							·		
							·		
<u> </u>									
'Type: C=C	concentration, D=Dep	oletion, RM	I=Reduced	Matrix.	² Locatio	n: PL=Pore	Elining, R	C=Root Channel,	M=Matrix.
[°] Soil Texture	es: Clay, Silty Clay,	Sandy Cla	y, Loam, S	andy Clay	Loam, S	andy Loam	i, Clay Loa	am, Silty Clay Loan	n, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil I	ndicators: (Applicat	ole to all LF	Rs, unless	otherwise	noted.)			Indicators for I	Problematic Hydric Soils:
	I (A1) ninadan (A2)		s	andy Gleye	d Matrix	(S4)			
	pipedon (A2)			andy Redox	(S5)				ace (S7) Janese Masses (F12)
	en Sulfide (A4)			tripped ivia	trix (S6)	ol (F 1)		Very Shal	low Dark Surface (TE12)
	d Lavers (A5) (LRR	C)		oarny iviuci	cy iviner	ai (F1) v (E2)		Other (Ex	plain in Remarks)
2 cm M	uck (A10)	-)		epleted M:	atrix (F3)	× (1 2)			,
Deplete	d Below Dark Surfac	ce (A11)		edox Dark	Surface	(F6)			
🕂 Thick D	ark Surface (A12)			epleted Da	ark Surfa	(F7)		⁴ Indicators of h	ydrophytic vegetation and
Sandy I	Mucky Mineral (S1)			edox Depr	essions	(F8)		wetland hyd	drology must be present
5cm Mu	icky Peat or Peat (S	3)						unless dist	urbed or problematic.
Restrictive	Layer (if present):								
Type:									
Depth (in	iches):							Hydric Soil Pre	esent? Yes 💿 🛛 No 🔿
Remarks:	- :1								
3	ons are nyuric.								
HYDROLC	GY								
Wetland Hv	drology Indicators	:							
Primary Indi	cators (any one indic	ator is suf	ficient)					Seconda	ry Indicators (2 or more required)
X Surface	Water (A1)			Vater Stair	ed Leav	es (B9)		Soil S	Surface Cracks (B6)
High Wa	ater Table (A2)			Aquatic Fai	una (B13	3)		🕅 Drain	nagePatterns (B10)
X Saturatio	on (A3)			True Aquat	ic Plants	(B14)		Dry-S	Season Water Table (C2)
Water M	larks (B1)			Ivdrogen S	Sulfide O	dor (C1)			fish Burrows (C8)
	nt Deposits (B2)			Dxidized RI	hizosphe	eres onl ivir	na Roots (C3) Satu	ration Visible on Aerial Imagery (C9)
	posits (B3)			Presence o	f Reduc	ed Iron (C4))	Stunt	ted or Stressed Plants (D1)
	at or Crust (B4)			Recent Iron	Reduct	ion in Tilleo	, I Soils (C6	S) Geor	norphic Postition (D2)
	osits (B5)			Thin Muck	Surface	(C7)		X FAC-	Neutral Test (D5)
	on Visible on Aerial I	magery (B	7) 🗌 (Gauge or V	Vell Data	(D9)			
	Vegetated Concave	e Surface (B8) 0	Other (Expl	lain in R	emarks)			
Field Obser	rvations					,			
Surface Wa	ter Present?	(es 🔎	No 🔿	Depth (ind	ches):	3			
Water Table	Present?		No @	Depth (inc	hes).				
Saturation F	Present?	(22)	No O	Depth (inc		10			
(includes ca	pillary fringe)	res 🕒		Doptil (inc		12	Wet	land Hydrology P	resent? Yes 💿 No 🔿
Describe Re	corded Data (stream	n gauge, m	ionitoring w	ell, aerial p	photos, p	previous ins	pections),	if available:	
Remarks:	-41	·							
W	elland hydrology	is present	•						

Project/Site: I-70/54 Kingdom City	City/County:Kingdom City, Callaway Sampling Date: 11/1				Date:11/12/21		
Applicant/Owner: MoDOT					State:MO	Sampling F	Point:W3-2
Investigator(s): C. Thomas PWS			Section, Townsh	ip, Range:T	- 48NR09WS08		
Landform (hillslope, terrace, etc.): roa	dside		Local relief (concave, convex, none):none				
Slope (%): 8 La	t: <u>38.945256</u>		Long:	-91.94161	[Datum: WGS 84
Soil Map Unit Name: Goss gravelly	silt loam, 8 to 15	5 percent slo	pes		NWI class	ification:none	
Are climatic / hydrologic conditions on	the site typical for	this time of ye	ear?Yes 💽	No	(If no, explain in	Remarks.)	
Are Vegetation Soil or	Hydrology	significantly	/ disturbed?	Are "Norma	al Circumstances	" present? Ye	es 💿 🛛 No 🔿
Are Vegetation Soil or	Hydrology	naturally pr	problematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - A	Attach site ma	p showing	ı sampling po	int locatio	ons, transect	ts, importai	nt features, etc.
Hydrophytic Vegetation Present?	Yes 🔿	No 🖲					
Hydric Soil Present?	Yes 🔿	No 💿	Is the Sar	mpled Area			
Wetland Hydrology Present?	Yes 🔿	No 🜘	within a V	Notland?	Yes (No 🌘)

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 0	(A)
2				_ Total Number of Dominant	
3.				Species Across All Strata: 1	(B)
4.				Bereast of Dominant Species	
Total Cove	r: 0 %			That Are OBL. FACW. or FAC:	% (A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)				0.00	/0 (- /
1.				Prevalence Index worksheet:	
2.				Total % Cover of: Multiply b	<u>y:</u>
3.				OBL species x 1 =	0
4.				FACW species x 2 =	0
5.				FAC species x 3 =	0
Total Cover	: 0 %			FACU species 100 x 4 =	400
Herb Stratum (Plot size: 5' radius)	Ū			UPL species x 5 =	0
1. Schedonorus arundinaceus	100	Yes	FACU	Column Totals: 100 (A)	400 (B)
3.				Prevalence Index = B/A =	4.00
4				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6				Prevalence Index is ≤3.0 ¹	
0.				- Morphological Adaptations ¹ (Provide su	pporting
<i>1.</i>				data in Remarks or on a separate sh	eet)
8.				Problematic Hydrophytic Vegetation ¹ (E	xplain)
I otal Cover Woody Vine Stratum (Plot size: 30' radius)	100%				
				¹ Indicators of hydric soil and wetland hydro	ology must
2				be present.	0,
Z	0.0/			- Hydrophytic	
	. 0 %			Vegetation	
% Bare Ground in Herb Stratum0 %				Present? Yes No 🖲	
Remarks:	d/mowed	rondsida	ran	1	
vegetation is not hydrophytic. Maintaine	u/mowed	Toauside a	ai ca		

SOIL

Profile Des	cription: (Describe	to the depth n	eeded to docu	nent the i	ndicator	or confirm	n the absence of ir	ndicators.)
Depth	Matrix		Redo	x Features	5			
(inches)	Color (moist)	<u>%</u> C	color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
0-4	10YR3/1	100					SiCL	
4-20	10VR3/2	100					SiCL	
	1011072	100						
	·							
				·				
'Type: C=C	Concentration, D=Dep	letion, RM=Red	duced Matrix.	² Location	: PL=Pore	Lining, R	C=Root Channel, M	1=Matrix.
Soil Texture	es: Clay, Silty Clay, S	Sandy Clay, Loa	am, Sandy Clay	Loam, Sa	ndy Loam	, Clay Loa	am, Silty Clay Loam	, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applicab	le to all LRRs, ι	Inless otherwise	e noted.)			Indicators for P	roblematic Hydric Soils:
	ininedon (A2)		Sandy Gleye	ed Matrix (S	64)			re(S7)
	listic (A3)		Sandy Redo	X(S5)				inese Masses (F12)
	en Sulfide (A4)			ky Minera	I (F1)		Very Shallo	w Dark Surface (TF12)
Stratifie	d Layers (A5) (LRR (C)		/ed Matrix	(F2)		Other (Exp	lain in Remarks)
🧮 2 cm M	uck (A10)		Depleted M	atrix (F3)	(• _)			
Deplete	ed Below Dark Surface	e (A11)	Redox Darl	surface (F6)			
Thick D	ark Surface (A12)		Depleted D	ark Surfac	e (F7)		⁴ Indicators of hy	drophytic vegetation and
Sandy I	Mucky Mineral (S1)		🗌 Redox Dep	ressions (I	F8)		wetland hyd	rology must be present
5cm Mu	ucky Peat or Peat (S3	5)						rbed of problematic.
Restrictive	Layer (if present):							
Type:			_					
Depth (ir	nches):						Hydric Soil Pres	sent? Yes 🔿 No 💿
Remarks: S	oils are not hydric							
	ons are not nyune.							
HYDROLC)GY							
Wetland Hy	drology Indicators:							
Primary Indi	icators (any one indic	ator is sufficien	t)				Secondar	y Indicators (2 or more required)
Surface	Water (A1)		Water Stai	ned Leave	es (B9)		Soil S	urface Cracks (B6)
🖳 High Wa	ater Table (A2)		Aquatic Fa	una (B13)	()		Draina	agePatterns (B10)
Saturatio	on (A3)		True Aqua	tic Plants ((B14)		Dry-S	eason Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide Od	or (C1)		Crayfi	sh Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized R	hizospher	es onLivin	ng Roots (C3) 🗍 Satura	ation Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence of	of Reduced	d Iron (C4))	Stunte	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reductio	on in Tilled	Soils (C6	5) 🗌 Geom	orphic Postition (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface (0	C7)		FAC-N	Veutral Test (D5)
Inundati	on Visible on Aerial Ir	magery (B7)	Gauge or \	Vell Data ((D9)			
Sparsely	y Vegetated Concave	Surface (B8)	Other (Exp	lain in Rei	marks)			
Field Obser	rvations							
Surface Wa	ter Present? Y	es 🔿 🛛 No (Depth (in	ches):				
Water Table	e Present? Y	es 🔿 No (Depth (in	ches):				
Saturation F	Present? Y	es 🔿 No (Depth (in	ches):				
(includes ca	pillary fringe)		<u> </u>			Wetl	and Hydrology Pro	esent? Yes () No 🔘
Describe Re	ecorded Data (stream	gauge, monito	ring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:	etland hydrology i	s not present						
	enana nyarotogy r	s not present.						

Project/Site: I-70/54 Kingdom City NE	ntion	City/County:Kingdom City, Callaway Sampling Date: 11/1				1/12/21		
Applicant/Owner: MoDOT					State:MO	Sa	Sampling Point:W4-1	
Investigator(s): C. Thomas PWS			Section, Township, Range: T48NR09WS08					
Landform (hillslope, terrace, etc.): ditch			Local relief (concave, convex, none): concave					
Slope (%): 4 Lat: 3	8.944948		Long: <u>-91.942493</u> Datum:W(
Soil Map Unit Name: Armstrong loam, 3	5 to 9 percent s	slopes, erod	led		NWI clas	sificatio	on:none	
Are climatic / hydrologic conditions on the	site typical for th	nis time of ye	ar?Yes 💽	No	(If no, explain	in Rem	arks.)	
Are Vegetation Soil or Hyd	rology	significantly	disturbed?	Are "Norma	l Circumstance	es" pres	sent? Yes 🖲	No 🔿
Are Vegetation Soil or Hyd	rology	naturally pro	oblematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS - Atta	ich site map	showing	sampling po	int locatio	ns, transeo	cts, in	nportant fea	atures, etc.
Hydrophytic Vegetation Present?	Yes 🜘	No 🔿						
Hydric Soil Present?	Yes 💽	No 🔿	Is the Sa	mpled Area				
Wetland Hydrology Present?	Yes 🜔	No 🔿	within a V	Netland?	Yes		No 🔿	

	Absolute	Dominant	Indicator	Dominance Test w	orkshee	t:		
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominan	t Specie	S		
1				That Are OBL, FAC	W, or FA	C:	1 ((A)
2				Total Number of Do	minant			
3.				Species Across All S	Strata:		1 ((B)
4.				Borcont of Dominan	t Spacia			
Total Cove	r: 0 %			That Are OBL, FAC	W, or FA	C: 100) 00% (A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)				,		100	.00/0	
1				Prevalence Index v	vorkshee	et:		
2.				Total % Cover of	of:	Multip	ly by:	
3.				OBL species	100	x 1 =	100	
4.		·		FACW species		x 2 =	0	
5.	-			FAC species		x 3 =	0	
Total Cover	: 0 %	-		FACU species		x 4 =	0	
Herb Stratum (Plot size: 5' radius)	-			UPL species		x 5 =	0	
¹ .Typha latifolia	100	Yes	OBL	Column Totals:	100	(A)	100	(B)
2.		·			100	(, ,)	100	
3.				Prevalence Inc	dex = B/	A =	1.00	
4.				Hydrophytic Veget	ation Inc	dicators:		
5.				X Dominance Tes	st is >50%	6		
6.		·		Prevalence Index	ex is ≤3.0) ¹		
7		·		Morphological A	Adaptatio	ns ¹ (Provide	supportir	ng
8				data in Rem	arks or o	n a separate	e sheet)	
Total Cover				Problematic Hy	drophytic	Vegetation	¹ (Explain))
Woody Vine Stratum (Plot size: 30' radius)	· 100%							
1.				¹ Indicators of hydric	soil and	wetland hy	/drology n	nust
2.				be present.				
Total Cover	. 0 %	·		Hvdrophytic				
	. 0 /0			Vegetation	~			
% Bare Ground in Herb Stratum0 %				Present?	Yes 🔘	No ()	
Remarks: Vegetation is hydrophytic				_				
· • • • • • • • • • • • • • • • • • • •								

Profile Des	cription: (Descri	be to the de	pth needed to	o document the	e indicator	or confiri	m the absence of i	ndicators.)
Depth	Matrix	(Redox Feature	es			
(inches)	Color (moist)	%	Color (mo	ist) %	Type ¹	Loc ²	Texture ³	Remarks
0-3	10YR3/1	100					SiCL	
3-12	10YR3/2	90	10YR5/6	10	С	М	CL	
						·		
					·	·		
$\frac{1}{1}$ Type: C=C	Concentration. D=D	Depletion, RM	I=Reduced Ma	atrix. ² l ocatio	on: PI =Por	e Linina, R	RC=Root Channel, N	/=Matrix
³ Soil Textur	es: Clay, Silty Cla	y, Sandy Cla	y, Loam, Sand	ly Clay Loam, S	andy Loam	n, Clay Loa	am, Silty Clay Loam	, Silt Loam, Silt, Loamy Sand, Sand.
Hvdric Soil	Indicators: (Applic	able to all LF	Rs. unless ot	herwise noted.)	,		Indicators for P	Problematic Hydric Soils
Histoso	I (A1)			lv Gleved Matrix	(S4)		Coast Prai	rie Redox (A16)
Histic E	pipedon (A2)		Sanc	ly Redox (S5)	(-)		Dark Surfa	ace (S7)
Black H	listic (A3)		Strip	ped Matrix (S6)			Iron Manga	anese Masses (F12)
Hydrog	en Sulfide (A4)	>	Loar	ny Mucky Miner	al (F1)		Very Shall	ow Dark Surface (TF12)
	d Layers (A5) (LR	R C)	Loar	ny Gleyed Matr	ix (F2)		Other (Exp	blain in Remarks)
	uck (ATU) ad Below Dark Sur	face (A11)		eted Matrix (F3) (FC)			
	ark Surface (A12)			ox Dark Surrace	e (F6)		⁴ Indicators of b	vdrophytic vegetation and
Sandy	Mucky Mineral (S1)		nx Depressions	(F8)		wetland hyd	Irology must be present
5cm Mu	ucky Peat or Peat	, (S3)			(10)		unless dist	urbed or problematic.
Restrictive	Layer (if present):						
Type:								
Depth (ir	nches):						Hydric Soil Pre	sent? Yes 🕢 No 🔿
Remarks:	·· · · · ·						-	~ ~
S	oils are hydric.							
HYDROLO)GY							
Wetland Hy	drology Indicato	rs:						
Primary Ind	icators (any one in	dicator is suf	ficient)				Secondar	ry Indicators (2 or more required)
X Surface	Water (A1)		Wa	ter Stained Leav	/es (B9)		Soil S	Surface Cracks (B6)
High Wa	ater Table (A2)		Aqu	atic Fauna (B13	3)		X Drain	agePatterns (B10)
X Saturati	on (A3)		Tru	e Aquatic Plants	s (B14)		Dry-S	season Water Table (C2)
Water M	larks (B1)		Hyc	Irogen Sulfide C	Odor (C1)		Crayf	ish Burrows (C8)
Sedime	nt Deposits (B2)		Oxi	dized Rhizosphe	eres onLivii	ng Roots ((C3) Satur	ation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Pre	sence of Reduc	ed Iron (C4	.)	Stunte	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Rec	ent Iron Reduct	tion in Tilleo	d Soils (Ce	6) 🗌 Geom	norphic Postition (D2)
Iron Dep	oosits (B5)		🗌 Thii	n Muck Surface	(C7)		X FAC-	Neutral Test (D5)
🗌 🗌 Inundati	on Visible on Aeria	al Imagery (B	7) 🗌 🗌 Gau	ige or Well Data	a (D9)			
Sparsel	y Vegetated Conca	ave Surface (B8) 🗌 Oth	er (Explain in R	emarks)			
Field Obse	rvations							
Surface Wa	ter Present?	Yes 💽	No O De	epth (inches):	2			
Water Table	e Present?	Yes 🔿	No 💿 🛛 Do	epth (inches):				
Saturation F	Present?	Yes 💽	No O De	epth (inches):	12	Wet	land Hydrology Dr	acant? Vac 🔍 Na
(Includes ca	ipillary fringe)	am daude m	onitoring well	aerial photos r	revious ins	spections)	if available:	
Describerte		am gauge, n		achai photos, p		pections)		
Pomarka:								
W	etland hydrolog	y is present	•					

Project/Site: I-70/54 Kingdom City NEPA Re-evaluation	_ City/County:Kingdom Cit	Sampling Date: 11/12/21				
Applicant/Owner: MoDOT		State:MO Sampling Poin				
Investigator(s): C. Thomas PWS	Section, Township, Range:T48NR09WS08					
Landform (hillslope, terrace, etc.): roadside	Local relief (concave, con	vex, none):none				
Slope (%): 8 Lat: <u>38.944999</u>	Long: <u>-91.942566</u> Datum:WGS					
Soil Map Unit Name: Armstrong loam, 5 to 9 percent slopes, ero	oded	NWI class	sification:none			
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes 💿 No 🔿	(If no, explain ir	n Remarks.)			
Are Vegetation Soil or Hydrology significantl	y disturbed? Are "Nor	rmal Circumstances	s" present? Yes 🖲	No 🔿		
Are Vegetation Soil or Hydrology naturally p	roblematic? (If neede	ed, explain any ans	wers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map showing	g sampling point loca	tions, transec	ts, important featur	es, etc.		
Hydrophytic Vegetation Present? Yes O No						
Hydric Soil Present? Yes No	Is the Sampled Are	ea				
Wetland Hydrology Present? Yes No	within a Wetland?	Yes (No 🖲			
Remarks: Data form is for the out-point for W4.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC:	0 (A)
2.				Total Number of Dominant	
3.				Species Across All Strata:	1 (B)
4.					
Total Cove	r: 0 %			That Are OBL FACW, or FAC:	00 % (A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)				0.	00 /0 (//2)
1.				Prevalence Index worksheet:	
2.				Total % Cover of: Multip	ly by:
3.				OBL species x 1 =	0
4.		·		FACW species x 2 =	0
5.		·		FAC species x 3 =	0
Total Cove	r: 0 %			FACU species 100 x 4 =	400
Herb Stratum (Plot size: 5' radius)	0 / 1			UPL species x 5 =	0
1. Schedonorus arundinaceus	100	Yes	FACU	Column Totals: 100 (A)	400 (B)
2.					400 (-)
3.				Prevalence Index = B/A =	4.00
4.		·		Hydrophytic Vegetation Indicators:	
5		·		Dominance Test is >50%	
6				Prevalence Index is ≤3.0 ¹	
7				- Morphological Adaptations ¹ (Provide	e supporting
8		·		data in Remarks or on a separate	e sheet)
Total Cava				Problematic Hydrophytic Vegetation	¹ (Explain)
Woody Vine Stratum (Plot size: 30' radius)	· 100%				
1.				¹ Indicators of hydric soil and wetland hy	ydrology must
2.		·		be present.	
Total Cove	r. 0 %			Hvdrophytic	
	. 0 /0			Vegetation	
% Bare Ground in Herb Stratum0 %				Present? Yes () No (Ð
Remarks: Vegetation is not hydrophytic Maintaine	d/mowed	roadside	area		
, egetation is not nytrophytic. Maintaine	u 1110 w cu	10000100	41 VU		

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix Redox Featu				x Features	3				
(inches)	Color (moist)	<u>%</u> C	olor (moist)	%	Type ¹	Loc ²	Texture ³	Remarks	
0-2	10YR3/1	100					SiCL		
2_20	10 VR 3/2	100		·			SiCL		
	10110/2								
				·					
				·					
				·					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix.									
Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:									
Histosol (A1) Sandy Gleyed Matrix (S4)							re(S7)		
Black Histic (A3)							anese Masses (F12)		
Hydrogen Sulfide (A4)						Very Shallo	ow Dark Surface (TF12)		
Stratified Lavers (A5) (LRR C)								lain in Remarks)	
2 cm Muck (A10)									
Depleted Below Dark Surface (A11)									
Thick Dark Surface (A12) Depleted Dark Surface (F7)							⁴ Indicators of hy	drophytic vegetation and	
Sandy Mucky Mineral (S1)						wetland hyd	rology must be present		
5cm Mucky Peat or Peat (S3) unless disturbed or problematic.									
Restrictive Layer (if present):									
Туре:									
Depth (inches): Hydric Soil Pr								sent? Yes 🔿 No 💿	
Remarks: Soils are not hydric									
HYDROLOGY									
Wetland Hy	drology Indicators:								
Primary Indi	cators (any one indica	ator is sufficient)				Secondar	y Indicators (2 or more required)	
Surface	Water (A1)		Water Stai	ned Leave	es (B9)		Soil Surface Cracks (B6)		
High Wa	ater Table (A2)		Aquatic Fa	una (B13)	()		DrainagePatterns (B10)		
Saturation (A3)						Dry-Season Water Table (C2)			
Water Marks (B1)						Crayfi	sh Burrows (C8)		
Sediment Deposits (B2)						C3) Satura	ation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)						Stunte	ed or Stressed Plants (D1)		
Algal Mat or Crust (B4)						i) 🗌 Geom	orphic Postition (D2)		
Iron Dep	oosits (B5)		Thin Muck	Surface (0	C7)		FAC-N	Neutral Test (D5)	
Inundati	on Visible on Aerial In	nagery (B7)	Gauge or V	Nell Data	(D9)				
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)									
Field Obser	rvations								
Surface Wa	ter Present? Ye	es 🔿 🛛 No (Depth (in	ches):					
Water Table	Present? Ye	es 🔿 No (Depth (in	ches):					
Saturation Present? Yes No Concerned Depth (inches):									
(includes capillary fringe) Wetla							and Hydrology Pre	esent? Yes 🔿 No 🖲	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:	etland hydrology is	a not present							
, vv	chand nyurology is	, not present.							
WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: I-70/54 Kingdom City N	VEPA Re-evalua	ation	City/County:Kin	gdom City, Ca	llaway	Sampling Date:	11/12/21
Applicant/Owner: MoDOT				Sta	te:MO	Sampling Point:	NWI1
Investigator(s): C. Thomas PWS			Section, Townsh	ip, Range: <u>T48N</u>	R09WS17		
Landform (hillslope, terrace, etc.): parki	ng lot edge		Local relief (con	cave, convex, no	one): _{none}		
Slope (%): 3	38.940614		Long:	-91.944755		Dat	um:WGS 84
Soil Map Unit Name: Armstrong loam	, 5 to 9 percent	slopes, erod	led		NWI classifi	cation:none	
Are climatic / hydrologic conditions on th	ne site typical for t	his time of ye	ar?Yes 🖲	No 🔿 (If ı	no, explain in F	Remarks.)	
Are Vegetation Soil or H	ydrology	significantly	disturbed?	Are "Normal Ci	rcumstances"	present? Yes 🦲	No 🔿
Are Vegetation Soil or H	ydrology	naturally pro	blematic?	(If needed, exp	lain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS - At	tach site map	showing	sampling po	int locations	, transects	, important fe	eatures, etc.
Hydrophytic Vegetation Present?	Yes 🔿	No 🖲					
Hydric Soil Present?	Yes 🔿	No 🖲	Is the Sa	mpled Area			
Wetland Hydrology Present?	Yes 🔿	No 💿	within a	Wetland?	Yes 🔿	No 🔘	

Remarks: Data form is for NWI1. The area does not does not have any wetland indicators.

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: 3 (B)
4		·		
Total Cava	- 0 0/			- Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15' radius)	1. 0 70			That Are OBL, FACW, of FAC. 0.00% (A/B)
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.	·			$\overline{OBL \text{ species}}$ $\overline{x 1 = 0}$
4.				FACW species $x 2 = 0$
5				FAC species $x 3 = 0$
Total Cove	. 0 %			FACU species $100 \times 4 = 400$
Herb Stratum (Plot size: 5' radius)	. 0 /0			UPL species $x 5 = 0$
1. Schedonorus arundinaceus	55	Ves	FACU	
2. Dinggous fullonum	$-\frac{35}{20}$	No	FACU	100 (A) 400 (B)
3. Souch was had an ange	$-\frac{20}{20}$	Vac	FACU	Prevalence Index = $B/A = 4.00$
4. Trifelium natepense	5	No	FACU	Hydrophytic Vegetation Indicators:
5		10	FACU	Dominance Test is >50%
6	·		·	Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
<i>1.</i>				- data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cove Woody Vine Stratum (Plot size: 30' radius)	100%			
				¹ Indicators of hydric soil and wetland hydrology must
1			·	be present.
2			·	
l otal Cove	r: 0 %			Vegetation
% Bare Ground in Herb Stratum 0 %				Present? Yes No 💿
Remarks:				
vegetation is not hydrophytic.				

SOIL

Profile Des	cription: (Descril	pe to the dept	n needed to docu	ment the indicate	or or confirm	n the absence of i	ndicators.)
Depth	Matrix		Redo	ox Features			
(inches)	Color (moist)	%	Color (moist)	%Туре	¹ Loc ²	Texture ³	Remarks
0-6	10YR3/1	100				SiCL	
6-20	$\frac{10 \text{VR} 3}{2}$					SiCL	
	10110/2						
¹ Type: C=C	Concentration, D=D	epletion, RM=I	Reduced Matrix.	² Location: PL=P	ore Lining, R	C=Root Channel, N	/I=Matrix.
³ Soil Textur	es: Clay, Silty Clay	y, Sandy Clay,	Loam, Sandy Clay	/ Loam, Sandy Loa	am, Clay Loa	m, Silty Clay Loam	, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Applic	able to all LRR	s, unless otherwis	e noted.)		Indicators for P	roblematic Hydric Soils ⁴ :
Histosc	ol (A1)		Sandy Gley	ed Matrix (S4)		Coast Prai	rie Redox (A16)
	pipedon (A2)		Sandy Red	ox (S5)		Dark Surfa	
	Histic (A3)		Stripped M	latrix (S6)			anese Masses (F12)
	ien Sulfide (A4)		Loamy Mu	cky Mineral (F1)			Join in Romarka)
	uck (A10)	K C)	Loamy Gle	eyed Matrix (F2)			nam in Remarks)
	ed Below Dark Surf	ace (A11)		Alatrix (F3)			
	ark Surface (A12)			k Surface (F0)		⁴ Indicators of h	vdrophytic vegetation and
Sandv	Mucky Mineral (S1)		pressions (F8)		wetland hyd	rology must be present
5cm Mi	ucky Peat or Peat (, S3)				unless distu	urbed or problematic.
Restrictive	Laver (if present)	:					
Type		-					
Depth (ir	nches):					Hydric Soil Pre	sent? Ves No
Deptii (ii Domorko:	<u> </u>					Thyanc Son The	
S S S	oils are not hydr	ic.					
	JGT						
Wetland Hy	drology Indicator	rs:					
Primary Ind	icators (any one in	dicator is suffic	ient)			Secondar	y Indicators (2 or more required)
Surface	Water (A1)		Water Sta	ined Leaves (B9)		Soil S	surface Cracks (B6)
🗌 🗌 High Wa	ater Table (A2)		Aquatic Fa	auna (B13)		Draina	agePatterns (B10)
Saturati	on (A3)		True Aqua	atic Plants (B14)		Dry-S	eason Water Table (C2)
Water N	/larks (B1)		Hydrogen	Sulfide Odor (C1)		Crayfi	ish Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized I	Rhizospheres onLi	ving Roots (C3) 🗌 Satura	ation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence	of Reduced Iron (C4)	Stunte	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Irc	on Reduction in Till	led Soils (C6) Geom	norphic Postition (D2)
Iron De	posits (B5)		Thin Mucł	k Surface (C7)		FAC-I	Neutral Test (D5)
🗌 Inundati	ion Visible on Aeria	I Imagery (B7)	Gauge or	Well Data (D9)			
Sparsel	y Vegetated Conca	ve Surface (B8	3) 🗌 Other (Ex	plain in Remarks)			
Field Obse	rvations						
Surface Wa	ter Present?	Yes 🔿 🛛 N	o 💿 🛛 Depth (ii	nches):			
Water Table	e Present?	Yes 🔿 N	o 💿 Depth (ii	nches):			
Saturation F	Present?	Yes O N	o 🙆 Depth (ii	nches):			
(includes ca	apillary fringe)			,	Wetl	and Hydrology Pr	esent? Yes 🔿 No 🖲
Describe Re	ecorded Data (strea	am gauge, mor	hitoring well, aerial	photos, previous i	inspections),	if available:	
Remarks:	letland hydrolog	vis not press	nt				
, vv	ettallu liyulolog.	y is not prese					

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: I-70/54 Kingdom Ci	ty NEPA Re-evalua	tion	City/County:King	gdom City, Ca	llaway	Sampling Date	e:11/12/21
Applicant/Owner: MoDOT				Sta	ite:MO	Sampling Poir	^{nt:} NWI2
Investigator(s): C. Thomas PWS			Section, Townshi	ip, Range: T48N	R09WS09	- 	
Landform (hillslope, terrace, etc.): fi	eld		Local relief (cond	cave, convex, nc	one):none		
Slope (%): 1	Lat: <u>38.946510</u>		Long:	-91.939364		D	atum:WGS 84
Soil Map Unit Name: Goss gravell	y silt loam, 8 to 15 p	percent slo	pes		NWI classifi	cation:PUBGx	
Are climatic / hydrologic conditions	on the site typical for th	nis time of ye	ear?Yes 🖲	No 🔿 (If r	- no, explain in F	Remarks.)	
Are Vegetation Soil	or Hydrology	significantly	y disturbed?	Are "Normal Ci	rcumstances"	present? Yes	No ()
Are Vegetation Soil	or Hydrology	naturally pr	oblematic?	(If needed, exp	lain any answe	ers in Remarks.))
SUMMARY OF FINDINGS -	Attach site map	showing	g sampling po	int locations	, transects	, important	features, etc.
Hydrophytic Vegetation Present?	Yes 🔿 👔	No 🖲					
Hydric Soil Present?	Yes O	No 🖲	Is the Sar	npled Area			
Wetland Hydrology Present?	Yes 🔿 🛛 I	No 🔘	within a V	Vetland?	Yes 🔿	No 🖲	
Remarks:			*	-			

Data form is for NWI2. The area does not does not have any wetland indicators.

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4.				- Deveent of Dominant Chaption
Total Cove	r: 0 %			That Are OBL, FACW, or FAC: 0.00 % (A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)	0			
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.		·		OBL species x 1 = 0
4.		·		FACW species x 2 = 0
5.		·		FAC species x 3 = 0
Total Cover	: 0 %			FACU species $105 \times 4 = 420$
Herb Stratum (Plot size: 5' radius)	0			UPL species $x 5 = 0$
1. Schedonorus arundinaceus	55	Yes	FACU	Column Totals: 105 (A) 420 (B)
2. Dipsacus fullonum	20	No	FACU	105 ()
3. Sorghum halepense	10	No	FACU	Prevalence Index = $B/A = 4.00$
4. Trifolium pratense	5	No	FACU	Hydrophytic Vegetation Indicators:
5. Setaria pumila	15	No	FAC	Dominance Test is >50%
6.				Prevalence Index is ≤3.0 ¹
7.				Morphological Adaptations ¹ (Provide supporting
8.				- data in Remarks or on a separate sheet)
Total Cove	105 %	·		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 30' radius)	105%			
1.				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover	r: 0 %			Hydrophytic
% Bare Ground in Herb Stratum0 %				Vegetation Present? Yes No
Remarks: Vegetation is not hydrophytic.				

SOIL

Profile Des	cription: (Describ	e to the dept	h need	led to docur	nent the	indicator o	or confirn	n the absence of i	ndicators.)
Depth	Matrix			Redo	x Feature	s		2	
(inches)	Color (moist)	%	Colo	or (moist)	%	Туре¹	Loc ²	Texture	Remarks
0-2	10YR3/1	100						SiCL	
2-20	10YR3/2	100						SiCL	
1					2				
Type: C=C	Concentration, D=D	epletion, RM=	Reduc	ed Matrix.	² Locatio	n: PL=Pore	Lining, R	C=Root Channel, N	M=Matrix.
"Soil Textur	es: Clay, Silty Clay	, Sandy Clay,	Loam,	Sandy Clay	Loam, Sa	andy Loam,	, Clay Loa	im, Silty Clay Loam	, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil	Indicators: (Application)	able to all LRF	s, unle	ess otherwise	noted.)			Indicators for P	Problematic Hydric Soils:
	ninodon (A2)			Sandy Gleye	ed Matrix (S4)			
	listic (A3)			Sandy Redo	x (S5)				anese Masses (F12)
	en Sulfide (A4)			Stripped Ma	atrix (56) Inv Minor			Verv Shall	ow Dark Surface (TE12)
	ed Lavers (A5) (I RE	S C)			ky Motri	41 (F1) (F2)		Other (Exc	plain in Remarks)
	luck (A10)	,		Depleted M	eu Main atrix (F3)	(FZ)			
	ed Below Dark Surfa	ace (A11)		Redox Dark	Surface	(F6)			
Thick D	ark Surface (A12)	· · /		Depleted D	ark Surfa	(F7)		⁴ Indicators of h	ydrophytic vegetation and
Sandy	Mucky Mineral (S1)			Redox Dep	ressions	(F8)		wetland hyd	Irology must be present
5cm Mu	ucky Peat or Peat (S3)						unless dist	urbed or problematic.
Restrictive	Layer (if present)	:							
Type:									
Depth (ir	nches):							Hvdric Soil Pre	sent? Yes 🔿 No 💿
Remarks:								,	
S S	oils are not hydr	c.							
Wetland Hy	drology Indicator	s:							
Primary Ind	icators (any one inc	licator is suffic	cient)	_				Secondar	ry Indicators (2 or more required)
Surface	Water (A1)			Water Stai	ned Leav	es (B9)		Soil S	Surface Cracks (B6)
🔄 High Wa	ater Table (A2)			Aquatic Fa	una (B13)		Drain	agePatterns (B10)
Saturati	on (A3)			True Aqua	tic Plants	(B14)		Dry-S	eason Water Table (C2)
Water M	larks (B1)			Hydrogen	Sulfide O	dor (C1)		Crayf	ish Burrows (C8)
Sedime	nt Deposits (B2)			Oxidized R	hizosphe	res onLivin	g Roots (0	C3) Satur	ation Visible on Aerial Imagery (C9)
Drift De	posits (B3)			Presence of	of Reduce	d Iron (C4)		Stunt	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)			Recent Iro	n Reducti	on in Tilled	Soils (C6) 📃 Geom	norphic Postition (D2)
l 🗌 Iron Dep	oosits (B5)			Thin Muck	Surface (C7)		FAC-	Neutral Test (D5)
🗌 🗌 Inundati	on Visible on Aeria	I Imagery (B7))	Gauge or \	Vell Data	(D9)			
Sparsel	y Vegetated Conca	ve Surface (B	8)	Other (Exp	lain in Re	emarks)			
Field Obse	rvations								
Surface Wa	ter Present?	Yes 🔿 🛛 🛚	No 💽	Depth (in	ches):				
Water Table	e Present?	Yes 🔿 🛛 🛚	No 💽	Depth (in	ches):				
Saturation F	Present?	Yes 🔿 🛛 🛚	No 🔘	Depth (in	ches):				
(includes ca	apillary fringe)	~		and the second state			Wetl	and Hydrology Pr	esent? Yes () No ()
Describe Re	ecorded Data (strea	im gauge, mo	nitoring	g weii, aerial	pnotos, p	revious insp	pections),	ir avallable:	
Remarks:	etland hydrology	is not prese	ent.						
''	- Julia Ily di Ology	10 not press	- 1 1 1 1						

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: I-70/54 Kingdom Ci	ty NEPA Re-eva	luation	City/County:Kin	gdom City, C	Callaway	Sampling Date: 1	1/12/21
Applicant/Owner: MoDOT				Ş	State:MO	Sampling Point:R	DW1
Investigator(s): C. Thomas PWS			Section, Townsh	nip, Range:T4	3NR09WS17		
Landform (hillslope, terrace, etc.): d	itch		Local relief (cor	icave, convex,	none):concave	,	
Slope (%): 2	Lat: <u>38.943787</u>		Long	: <u>-91.943022</u>	2	Datu	m:WGS 84
Soil Map Unit Name: Armstrong lo	bam, 5 to 9 percer	nt slopes, eroo	ded		NWI classif	ication: None	
Are climatic / hydrologic conditions	on the site typical fo	or this time of ye	ear?Yes 🖲	No (lf no, explain in	Remarks.)	
Are Vegetation Soil	or Hydrology	significantly	/ disturbed?	Are "Normal	Circumstances"	present? Yes 🖲	No 🔿
Are Vegetation Soil	or Hydrology	naturally pro	oblematic?	(If needed, e	xplain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS -	Attach site ma	ap showing	sampling po	oint location	ns, transects	s, important fea	atures, etc.
Hydrophytic Vegetation Present?	Yes 🜘	No 🔿					
Hydric Soil Present?	Yes 💿	No 🔿	Is the Sa	mpled Area			
Wetland Hydrology Present?	Yes 💽	No 🔿	within a	Wetland?	Yes 🖲	No 🔿	
Remarks:							~

INS. RDW1 is a roadside ditch wetland. Roadside ditches are wholly in and draining only uplands and do not carry a relatively permanent flow of water. These ditches and wetlands generally are not jurisdictional under the CWA, because they are not tributaries or do not have a significant nexus to TNWs. This data form represents the typical conditions of all roadside ditch wetlands in the area.

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test	workshee	t:		
Iree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Number of Domin	ant Specie	S		
1				That Are OBL, FA	CW, or FA	C: 1		(A)
2				Total Number of D	Dominant			
3.				Species Across A	Il Strata:	1	((B)
4.								
Total Cove	r: 0 %			That Are OBL FA	CW. or FA	S C: 100	0.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)	0			,		100.	00%	(,,,,,,)
1.				Prevalence Index	(workshe	et:		
2.				Total % Cove	r of:	Multiply	y by:	
3.				OBL species	100	x 1 =	100	
4.			·	FACW species		x 2 =	0	
5.				FAC species		x 3 =	0	
Total Cover	. 0 %			FACU species		x 4 =	0	
Herb Stratum (Plot size: 5' radius)	. 0 /0			UPL species		x 5 =	0	
1.Typha latifolia	100	Yes	OBL		100	(A)	100	(B)
2.					100	(A)	100	(D)
3.				Prevalence	Index = B/	A =	1.00	
4.				Hydrophytic Veg	etation In	dicators:		-
5				Dominance T	est is >50%	6		
6		·		Prevalence Ir	ndex is ≤3.0) ¹		
7		·			Adaptatio	ns ¹ (Provide	supportir	na
7. o				data in Re	marks or o	n a separate	sheet)	5
0T () Q				Problematic H	- lydrophytic	Vegetation ¹	(Explain)
I otal Cover Woody Vine Stratum (Plot size: 30' radius)	100%							
				¹ Indicators of hvd	ric soil and	d wetland hvo	droloav r	nust
··				be present.		,	0,	
Z	0.04	·	·	Hydrophytic				
l otal Cover	: 0%			Vegetation				
% Bare Ground in Herb Stratum 0 %				Present?	Yes 🔘	No 🔿)	
Remarks:								
v egetation is hydrophytic.								

SOIL

Profile Des	cription: (Describe	to the de	pth needed to doc	ument the	indicator	or confirn	n the absence of ir	ndicators.)
Depth	Matrix		Rec	ox Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture ³	Remarks
0-12	10YR3/1	90	5YR5/6	10	С	М	SiCL	
						·		
					·	·		
						·		
					·	·		
		·				·		
¹ Type: C=C	oncentration, D=Dep	letion, RM	I=Reduced Matrix.	² Locatio	on: PL=Por	e Lining, R	C=Root Channel, M	1=Matrix.
³ Soil Texture	es: Clay, Silty Clay, S	Sandy Cla	y, Loam, Sandy Cla	iy Loam, S	andy Loam	n, Clay Loa	am, Silty Clay Loam	, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil I	ndicators: (Applicab	le to all LF	RRs, unless otherwi	se noted.)			Indicators for P	roblematic Hydric Soils [‡] :
Histoso	I (A1)		Sandy Gle	yed Matrix	(S4)		Coast Prair	rie Redox (A16)
	pipedon (A2)		Sandy Red	lox (S5)			Dark Surfa	
	ISTIC (A3)		Stripped I	Aatrix (S6)				anese Masses (F12)
	en Sullide (A4)	•	Loamy M	ucky Miner	al (F1)			Join in Remarke)
	u Layers (A5) (LKK (•)	Loamy GI	eyed Matri	x (F2)			iain in Remarks)
	d Below Dark Surfac	(۵11) م	Depleted	Matrix (F3) (FC)			
	ark Surface (A12)	0 (711)		Dork Surfe	(FO)		⁴ Indicators of h	drophytic vegetation and
	Mucky Mineral (S1)			Dark Suria	(EQ)		wetland hvd	rology must be present
5cm Mu	ickv Peat or Peat (S3	5)		pressions	(го)		unless distu	irbed or problematic.
Restrictive	l aver (if present):	,						
Type								
Dopth (in	abaa);						Hudria Sail Bra	
Depth (in							Hydric Soli Pres	
S S	oils are hydric.							
HIDROLU	GT							
Wetland Hy	drology Indicators:							
Primary Indi	cators (any one indic	ator is suf	ficient)				Secondar	y Indicators (2 or more required)
X Surface	Water (A1)		Water St	ained Leav	/es (B9)		Soil S	urface Cracks (B6)
🔄 High Wa	ter Table (A2)		Aquatic F	auna (B13	3)		🗙 Draina	agePatterns (B10)
X Saturatio	on (A3)		True Aqu	atic Plants	s (B14)		Dry-S	eason Water Table (C2)
Water M	arks (B1)		Hydroge	n Sulfide C	dor (C1)		Crayfi	sh Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosphe	eres onLivii	ng Roots (0	C3) Satura	ation Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Reduc	ed Iron (C4	-)	Stunte	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Ir	on Reduct	ion in Tilleo	d Soils (C6	i) 🗌 Geom	orphic Postition (D2)
Iron Dep	oosits (B5)		Thin Muc	k Surface	(C7)		🗙 FAC-N	Neutral Test (D5)
Inundati	on Visible on Aerial Ir	nagery (B	(7) Gauge of	Well Data	a (D9)			
Sparsely	Vegetated Concave	Surface ((B8) Other (E	kplain in R	emarks)			
Field Obser	vations							
Surface Wat	ter Present? Y	es 💽	No 🔿 Depth (inches):	1			
Water Table	Present? Y	es 🔿	No 💿 Depth (inches):				
Saturation F	Present? Y	es 🖲	No O Depth (inches):	12			•
(includes ca	pillary fringe)		· · · ·	·		Wetl	and Hydrology Pre	esent? Yes 💿 No 🔿
Describe Re	ecorded Data (stream	gauge, m	ionitoring well, aeria	il photos, p	previous ins	spections),	it available:	
Remarks:	etland hydrology i	s nrecent	-					
, vv	chand nyurology I	s present						

Appendix E State Historic Preservation Office Concurrence Letter

CULTURAL RESOURCE COMMENTS Section 106 Review

CONTACT PERSON/ADDRESS:	COPIED:
Michael Meinkoth Historic Preservation Manager Missouri Department of Transportation P.O. Box 270 Jefferson City, Missouri 65102	Raegan Ball, FHWA Michael Meyer, MoDOT Taylor Peters, FHWA
PROJECT:	
Phase I Cultural Resources Survey of Intersection Improve	ements on Route 54, MoDOT Job No. J5P3417

FEDERAL AGENCY:	COUNTY:
FHWA	Callaway

The Missouri State Historic Preservation Office (SHPO) has reviewed the information submitted on the above referenced project. Based on this review, we have made the following determination:

Adequate documentation has been provided as outlined in 36 CFR Section 800.11. After review of the initial submission, the project area has no known historic properties present and a low potential for the occurrence of cultural resources. SHPO concurs with your determination of **No Historic Properties Affected**.

An adequate cultural resource survey of the project area has been previously conducted; therefore, SHPO concurs with your determination of **No Historic Properties Affected**.

X

An adequate cultural resource survey has been conducted for this project titled *Cultural Resources Survey: Callaway County, Route 54, MoDOT Job No. J5P3417* by Thomas Collins and Tyler Holladay. Based on this survey and its negative findings, SHPO concurs with your determination of **No Historic Properties Affected**.

PLEASE BE ADVISED THAT, IF THE CURRENT PROJECT AREA OR SCOPE OF WORK CHANGES, SUCH AS A BORROW AREA BEING ADDED, OR CULTURAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, APPROPRIATE INFORMATION MUST BE PROVIDED TO THIS OFFICE FOR FURTHER REVIEW AND COMMENT. Please retain this documentation as evidence of consultation with SHPO under Section 106 of the National Historic Preservation Act, as amended. SHPO concurrence does not complete the Section 106 process as federal agencies will need to conduct consultation with all interested parties.

Βv

June 15, 2022 Date

Toni M. Prawl, Ph.D., Deputy State Historic Preservation Officer

MISSOURI DEPARTMENT OF NATURAL RESOURCES STATE HISTORIC PRESERVATION OFFICE P.O. Box 176, Jefferson City, Missouri 65102 If you have any questions, please respond to <u>Jeffrey.Alvey@dnr.mo.gov</u>, or call (573) 751-7862. Please be sure to refer to the project number: 002-MLT-20