

Improve I-70

Jeff Gander
March 13, 2024



IMPROVE I-70



AUGUST 2023

Planned Capacity Improvements Blue Springs to Wentzville

Additional Capacity Improvements Kansas City and St. Louis

Under Construction - \$271 million

Under Construction - \$720 million

Funded - \$2.8 billion
from General Revenue

Funded - \$304 million



Kansas City

- Under Construction: \$257 million
Buck O'Neil Bridge
- Under Construction: \$11 million
Blue Ridge Boulevard
- Funded: \$249 million
Paseo to I-435




Blue Springs to Odessa
Average Daily Traffic: 51,800

- Under Construction: \$0
- Funded: \$200-300 million



Odessa to Marshall
Average Daily Traffic: 31,000

- Under Construction: \$0 million
- Funded: \$450-550 million



Marshall to Columbia
Average Daily Traffic: 36,800

- Under Construction: \$240 million
Rochepart Bridge
- Funded: \$600-700 million



Columbia to Kingdom City
Average Daily Traffic: 39,800

- Under Construction: \$0
- Funded: \$350-500 million



Kingdom City to Warrenton
Average Daily Traffic: 39,300

- Under Construction: \$31 million
- Funded: \$650-750 million



Warrenton to Wentzville
Average Daily Traffic: 81,700

- Under Construction: \$0
- Funded: \$400-500 million



St. Louis

- Under Construction: \$278 million
I-270
- Under Construction: \$112 million
Chain of Rocks
- Under Construction: \$62 million
Cave Springs to Fairgrounds

- Environmental near completion
- **1.1 million jobs** depend on I-70
- Workforce development opportunities
- I-70 carries **100 million tons of freight**

modot.org/improve170



Improve I-70 Project Schedule

Improve I-70 - Updated Schedule

Project	Limits	Miles	Construction Contract	Project Award	Completion
1	Columbia to Kingdom City	20	\$405	February 2024	December 2027
2	Warrenton to Wentzville	17	\$500-\$600	December 2024	June 2028
3	Blue Springs to Odessa	16	\$280-\$340	February 2025	March 2027
4A	Boonville to CoMO	21	\$550-\$600	September 2025	September 2029
4B	Odessa Interchange to Boonville	67	\$700-\$800	December 2025	December 2029
4C	Kingdom City to Warrenton	60	\$600-\$700	September 2026	December 2030
	This is the latest schedule shared with industry				

Program Team Update

- **Improve I-70 Program Director:** Eric Kopinski, P.E.
- **West Project Director:** Karlee Covington, P.E.
 - **West Project Deputy Director:** Ryan Kneib, P.E.
- **Central Project Director:** Jeff Gander, P.E.
 - **Central Project Deputy Director:** Nicole Samer, P.E.
 - **Project Engineer:** Dylan Hackman, P.E.
 - **Project Engineer:** Zach Koenig
 - **Senior Construction Inspector:** Andrew Bertels
- **East Project Director:** Kim Trainor, P.E.
 - **East Project Deputy Director:** Chris Kelly, P.E.
- **Design Lead:** Zach Osman, P.E.
- **Safety and Traffic Lead:** Spencer Robinson, P.E.
- **Third Party Lead:** Dan Oesch, P.E.
- **Innovations Lead:** Liz Prestwood
- **Communications Lead:** Lairyn McGregor
- **Financial Lead:** Kelly Wilson



Improve I-70 MEGA/INFRA Grant

- MoDOT submitted an aggressive MEGA/INFRA grant application totaling almost \$300M requested funding
- Leverage \$2.8B of general revenue to add innovation and safety enhancements to the project
- In January 2024 MoDOT was notified of a partial award of \$92.8M for the first three segments
 - Blue Springs to Odessa
 - Route 63 to Route 54
 - Warrenton to I-64

Improve I-70 MEGA/INFRA Grant

Items Funded

- ITS
 - Truck Parking
 - Outer Roads
 - Pollinator Habitat
 - Wildlife Crossing
 - Solar on Right of Way
- 

Improve I-70 MEGA/INFRA Grant

Next Steps:

1

Execute an agreement with FHWA for Improve I-70 INFRA

2

Continue public engagement as we implement enhancements funded by the grant

3

Identify delivery methods for specific activities funded by the grant

- Include in contract for road work or issue separate RFP

4

Apply for additional grant opportunities to provide funding the remaining segments of I-70

NEPA UPDATE

- Re-evaluation of Tier 2 Improve I-70 Study
- I-70 divided into 7 Sections of Independent Utility (SIU)
 - SIU 1: Hg Consult
 - SIU 2 & 3: CDM Smith
 - SIU 4: Hg Consult
 - SIU 5 & 6: CDM Smith
 - SIU 7: Jacobs



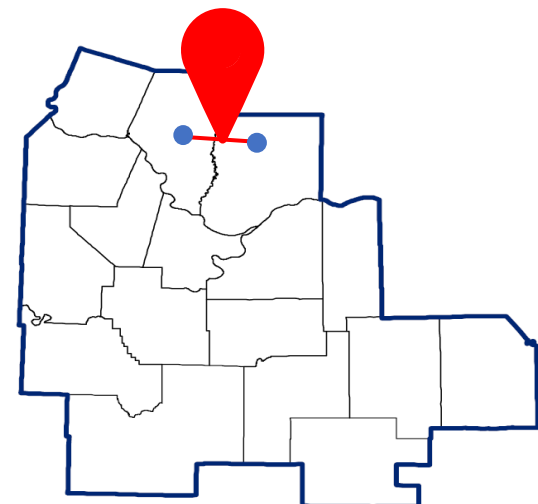
COLUMBIA TO KINGDOM CITY PROJECT # 1

- 20-mile section of I-70 between U.S. 63 and U.S. 54
- Addition of a third lane both Eastbound and Westbound
- Includes reconstruction of US 63 & 54 interchanges

1ST Project Location



MISSOURI



MoDOT Central District

- 20 miles of Interstate 70 between Columbia (U.S. 63) and Kingdom City (U.S. 54)
 - Includes interchange improvements at U.S. 63 and U.S. 54.



Program Needs: Corridor Reliability



2017-2021 I-70 Crash Data

TYPE	ALL CRASHES
Fatal	11
Serious/Disabling	24
Minor	146
PDO	801
TOTAL	982

Program Needs: Aging Infrastructure



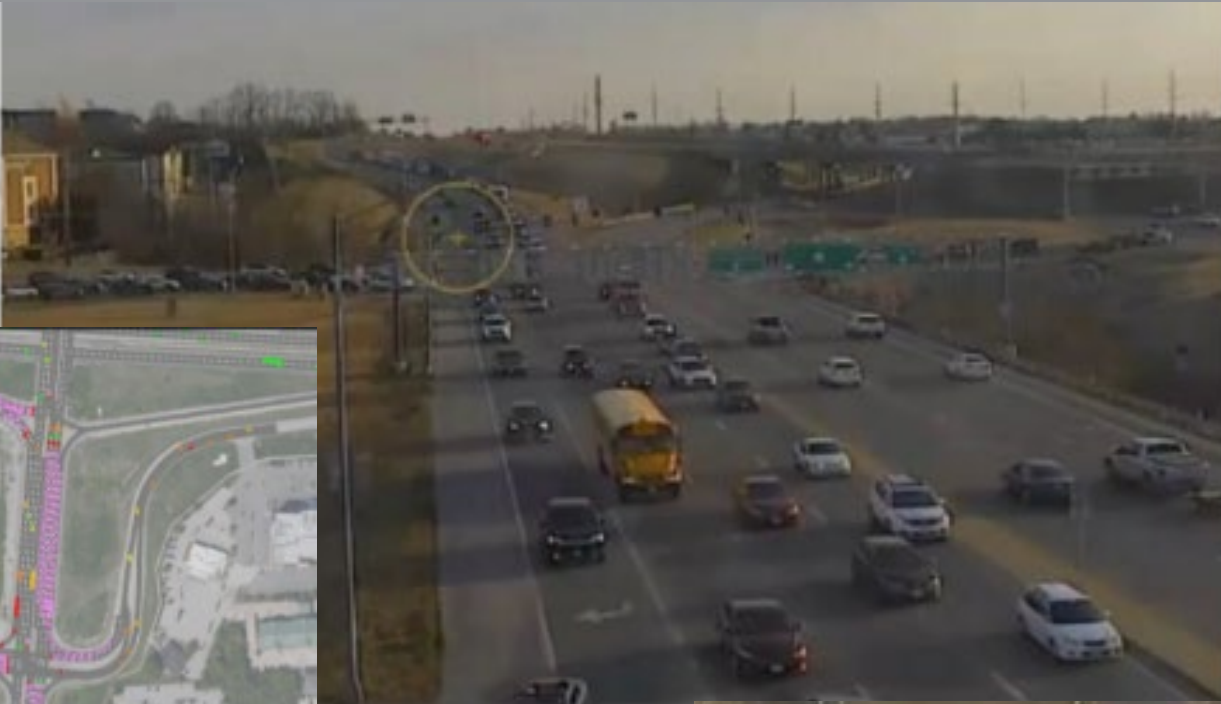
Project History at US 63 Interchange 1968-Present



	1968	2022
I-70 Columbia	11,140	53,000
I-70 Rural	10,560	33,000
US 63 Connector	5,070	31,700



Project Needs: I-70/U.S. 63 Peak Hour Congestion

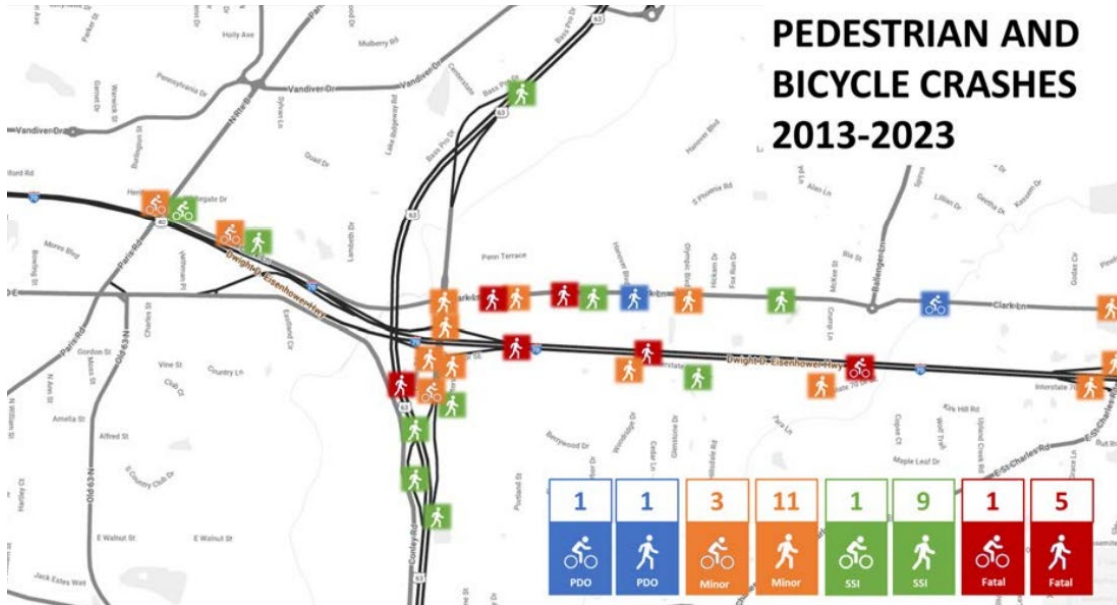


Project Needs: I-70/U.S. 63

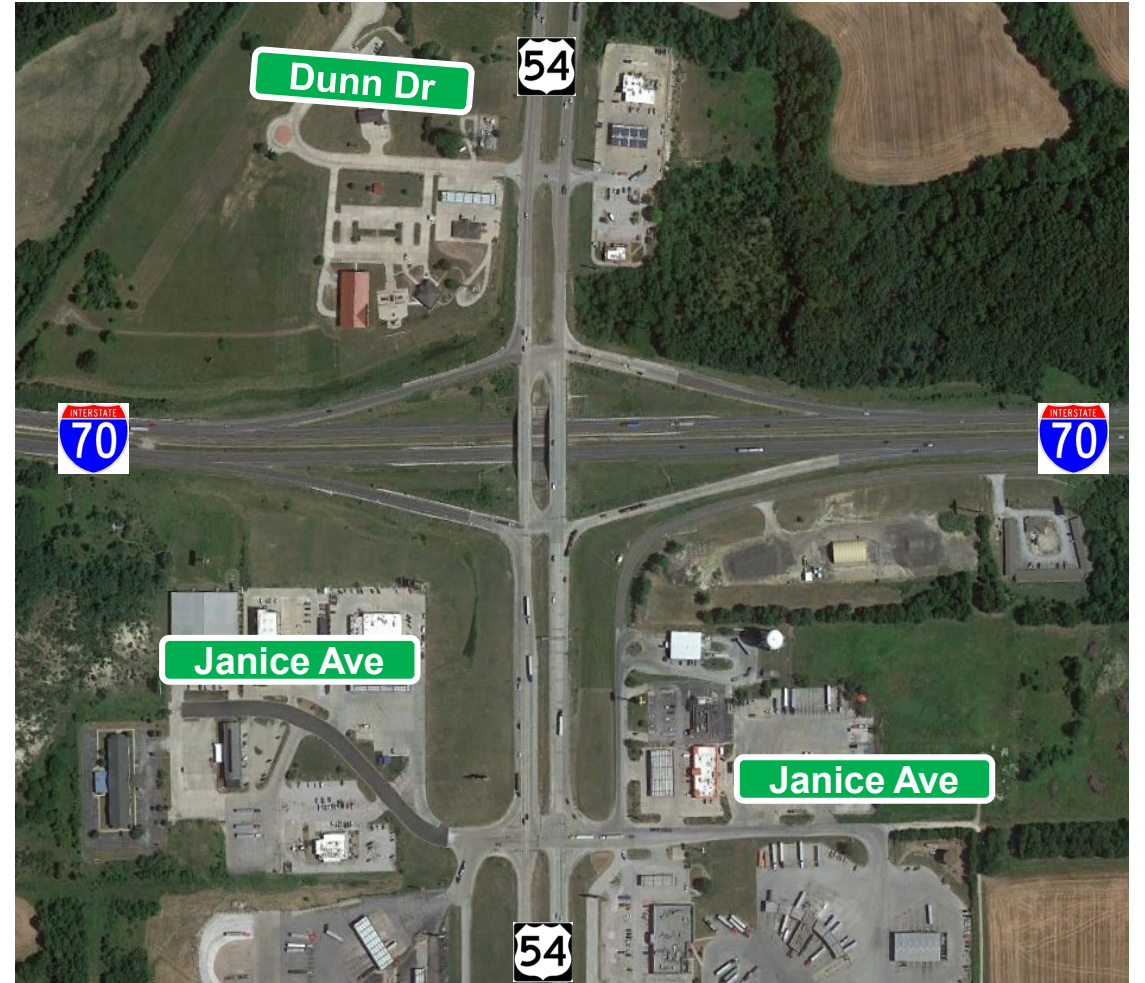


Purpose & Need: I-70/U.S. 63 Vulnerable Road User Access

- 10 pedestrian related accidents in last 5 years
- 3 fatalities
- No existing bike/ped crossings of I-70 or US 63



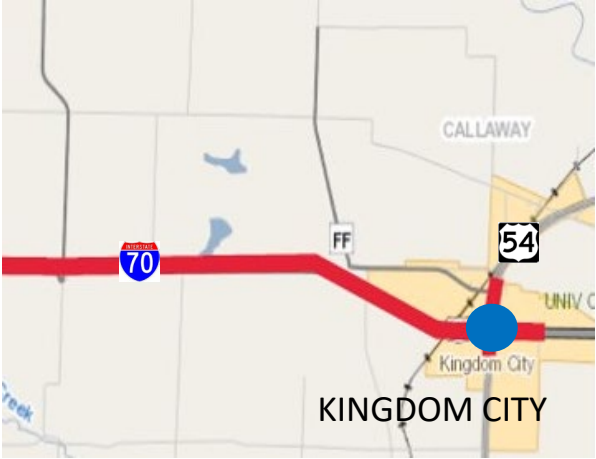
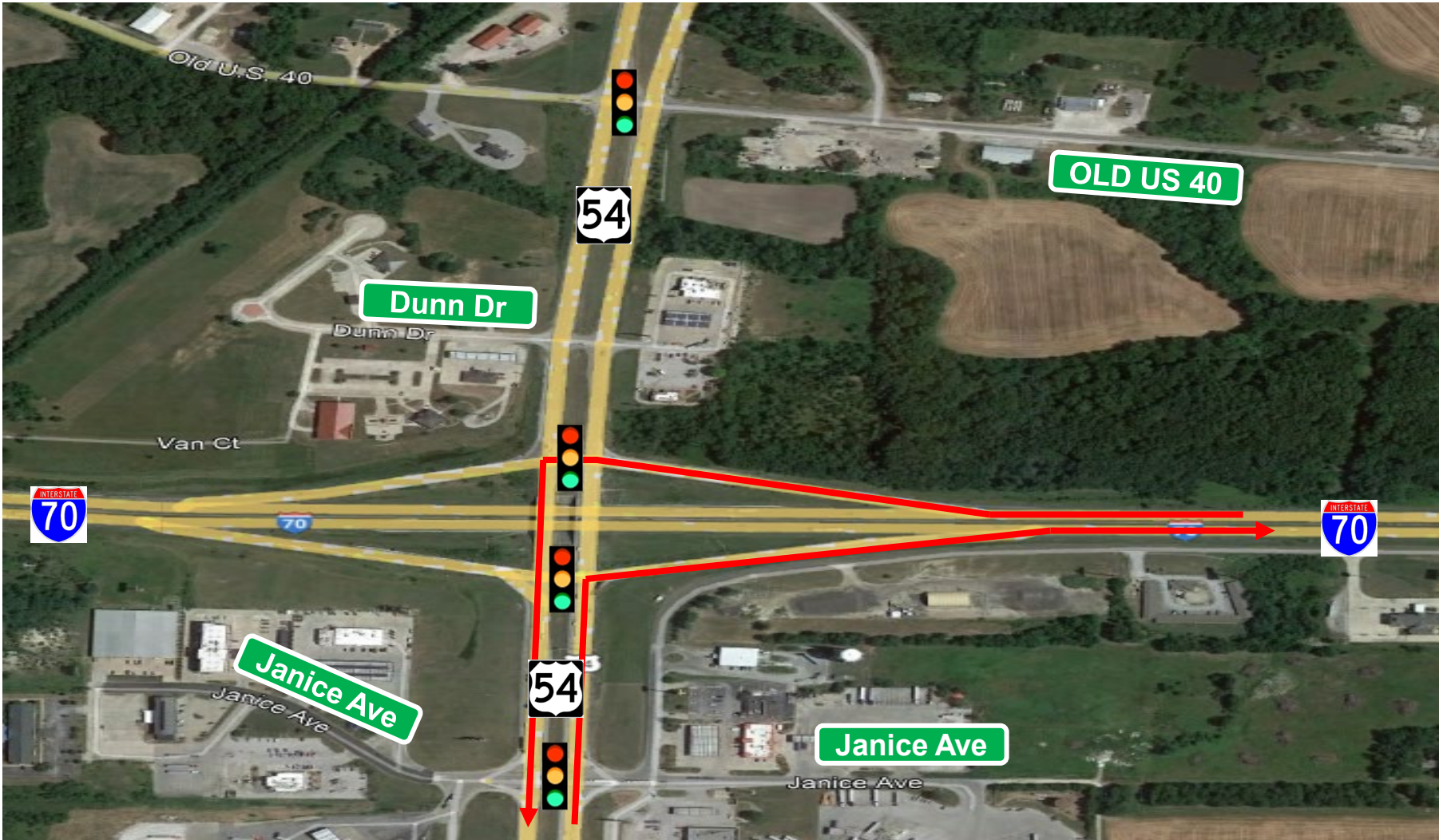
Project History at US 54 Interchange 1968-Present



Project Needs: I-70/U.S. 54 Peak Hour Congestion



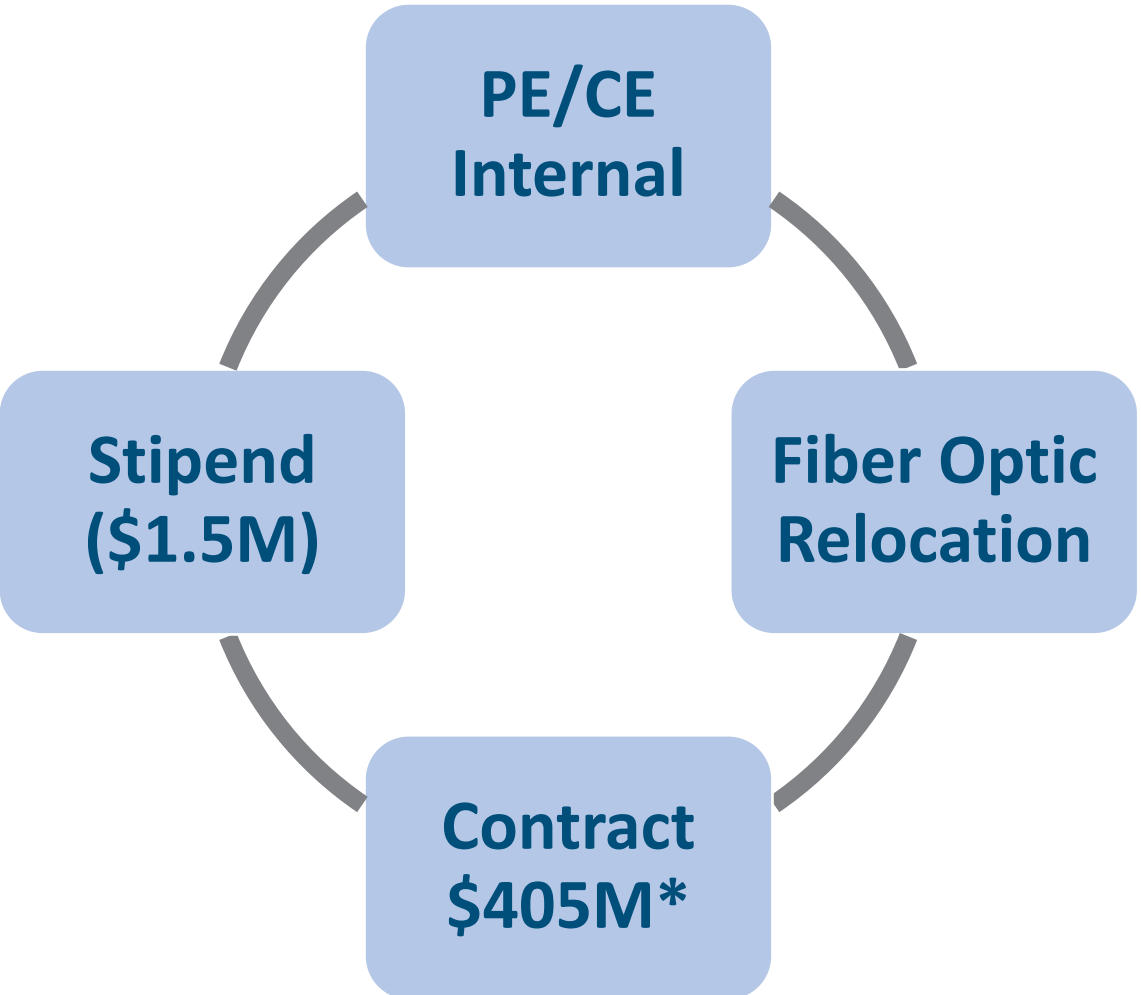
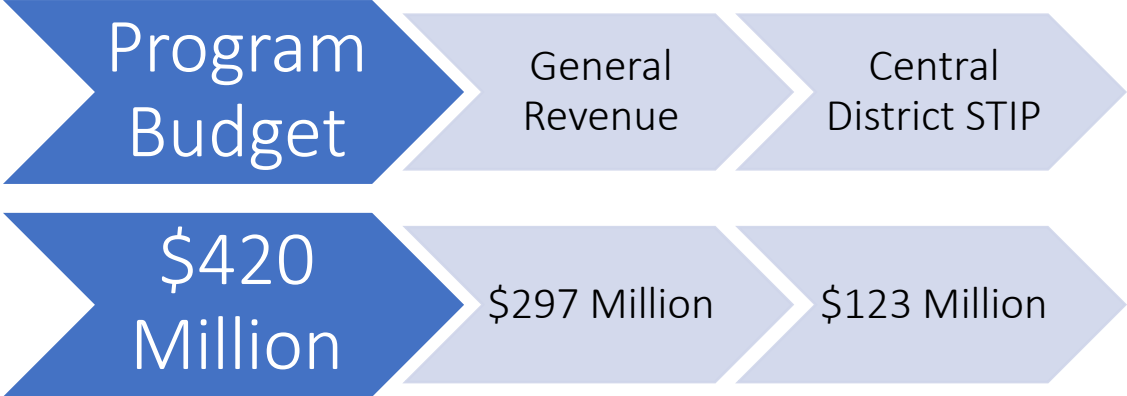
Project Needs: I-70/U.S. 54



Project Needs: I-70/U.S. 54



Project Budget



**Fixed Price/Best Value
final contract amount in RFP*

Project Goals

1.

Deliver the project by December 31, 2027 within the program budget.

2.

Provide a third lane of travel for eastbound and westbound I-70 from Columbia to Kingdom City.

3.

Improve the I-70/US 63 Connector and I-70/US 54 interchanges providing for better traffic flow and movement of freight.

4.

Improve the interstate while modernizing the existing pavement and bridges.

5.

Minimize construction impacts with a focus on work zone safety, communication, and construction staging while maintaining mobility.

6.

Provide expanded employment opportunities while developing and using a diverse workforce.

DBE & Workforce Goals

DBE GOALS

Construction 10%

Professional Services 18%

WORKFORCE GOALS

6.3% Minority per craft

6.9% Female per craft

6 Construction OJTs at 1000 hours each

Project Schedule

MILESTONE	DATE
Project Advertisement	August 24, 2023
Industry Meeting & Release RFQ	August 24, 2023
SOQs Due	October 2, 2023
Shortlist Teams & Release RFP	October 6, 2023
Proposals Due	January 25, 2024
Award Project	February 14, 2024
Project Completion	December 31, 2027

Short-Listed Teams

I-70 Constructors



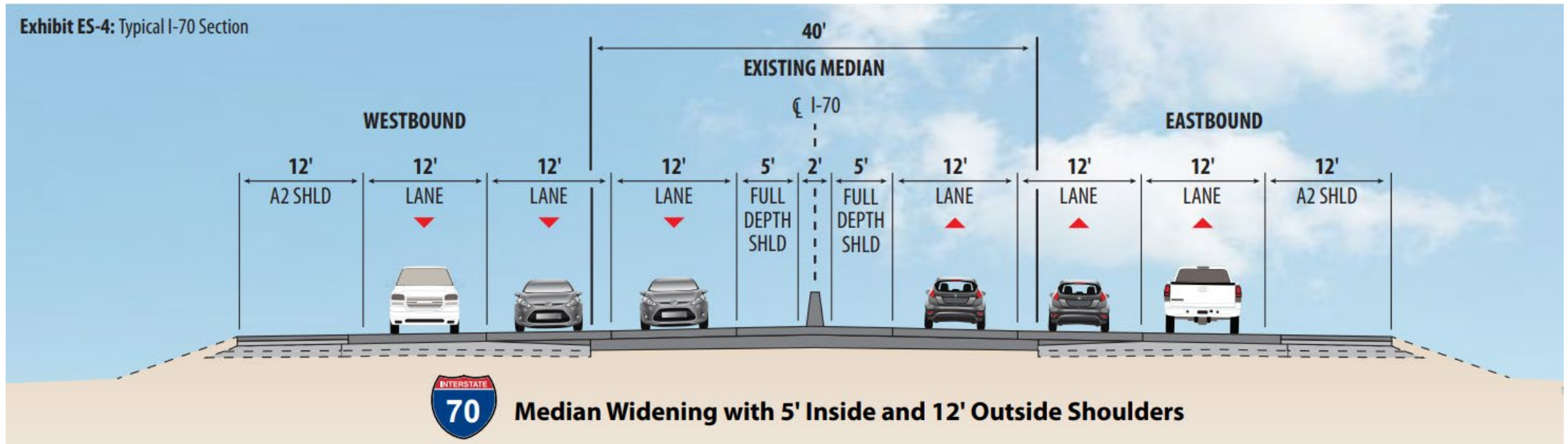
Millstone Weber



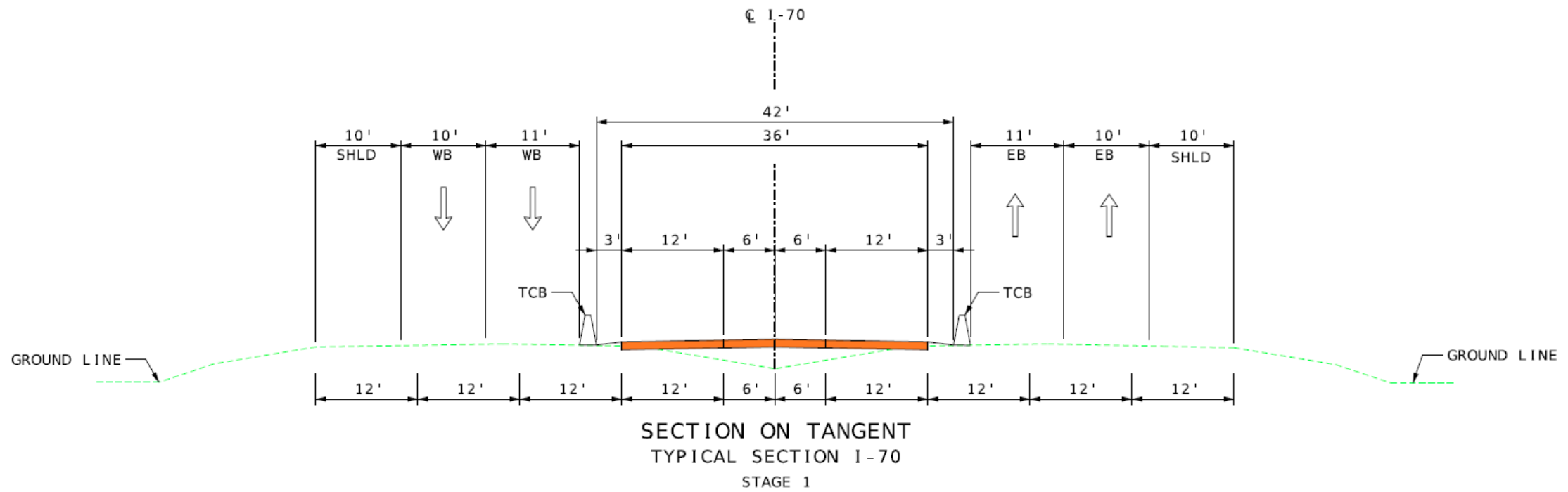
Millstone Weber Proposal

- Add 3rd lane in each direction
- Reconstruct existing pavement
- 16 structures
- 3 roundabouts and C-D road at US 63
- Rebuilt US 54 interchange
- 2-lanes open on I-70 during construction
- Strong commitment to growing diverse workforce

Proposed I-70 Mainline

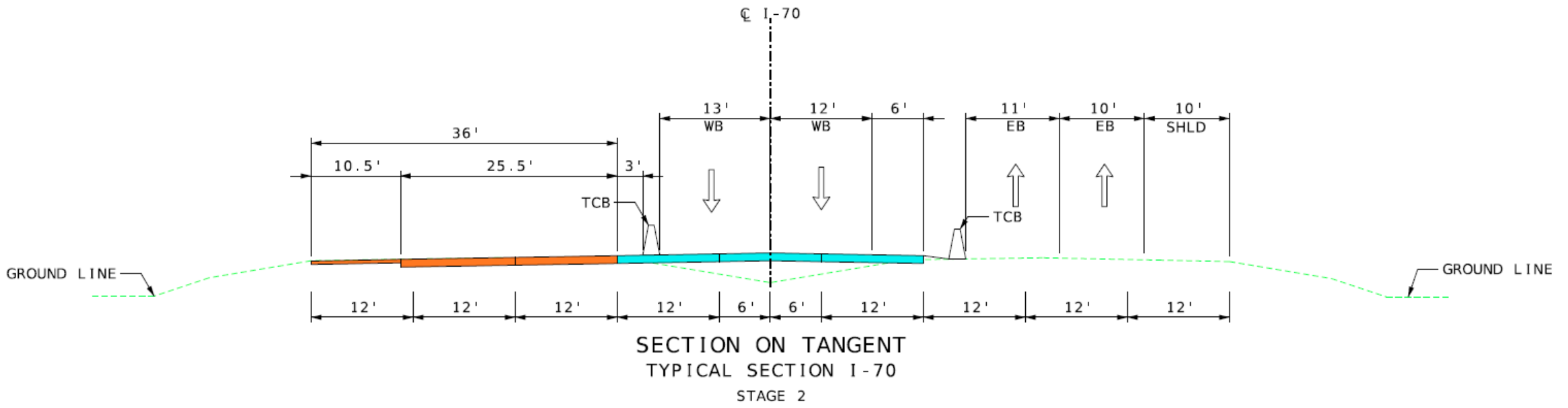


I-70 Tangent Sections – Phase 1



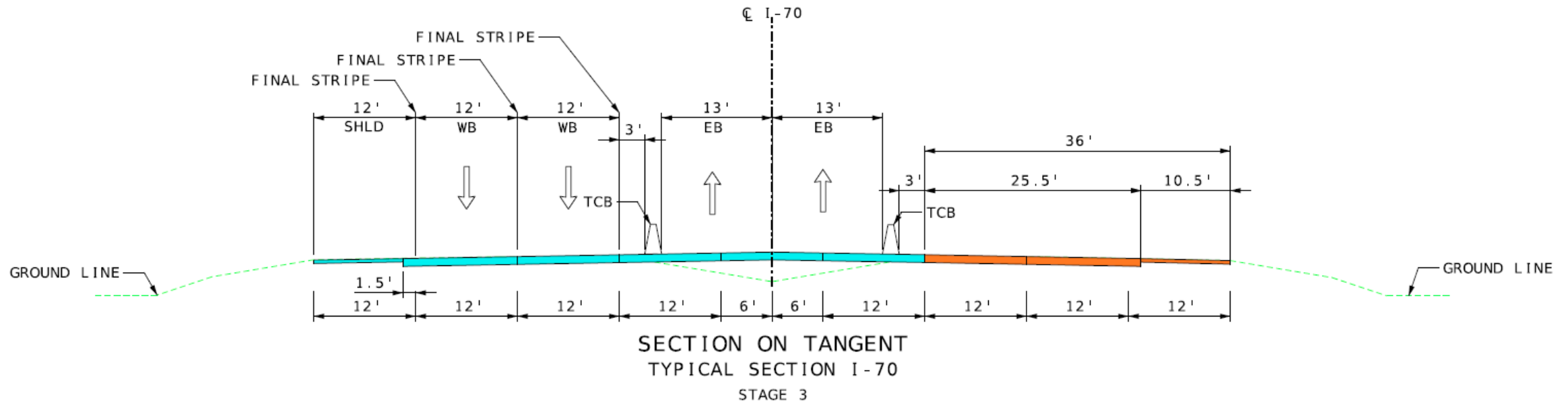
- Narrow the lanes both EB and WB to create more space in the median
- Construct the median area

I-70 Tangent Sections – Phase 2



- Move WB traffic to the median area
- Construct the remaining WB lanes

I-70 Tangent Sections – Phase 3



- Move WB traffic back to the WB side
- Move EB traffic to the median area
- Construct the remaining EB

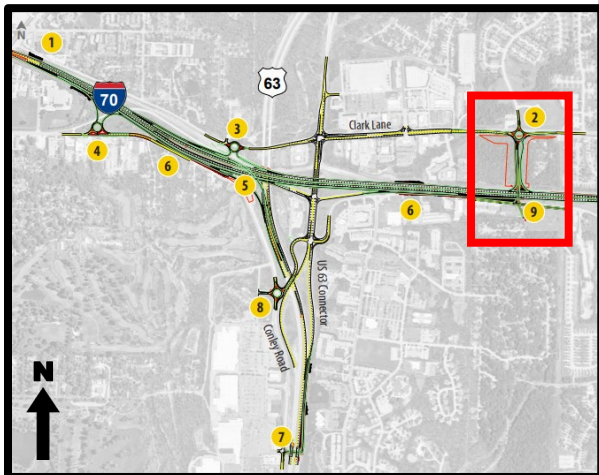
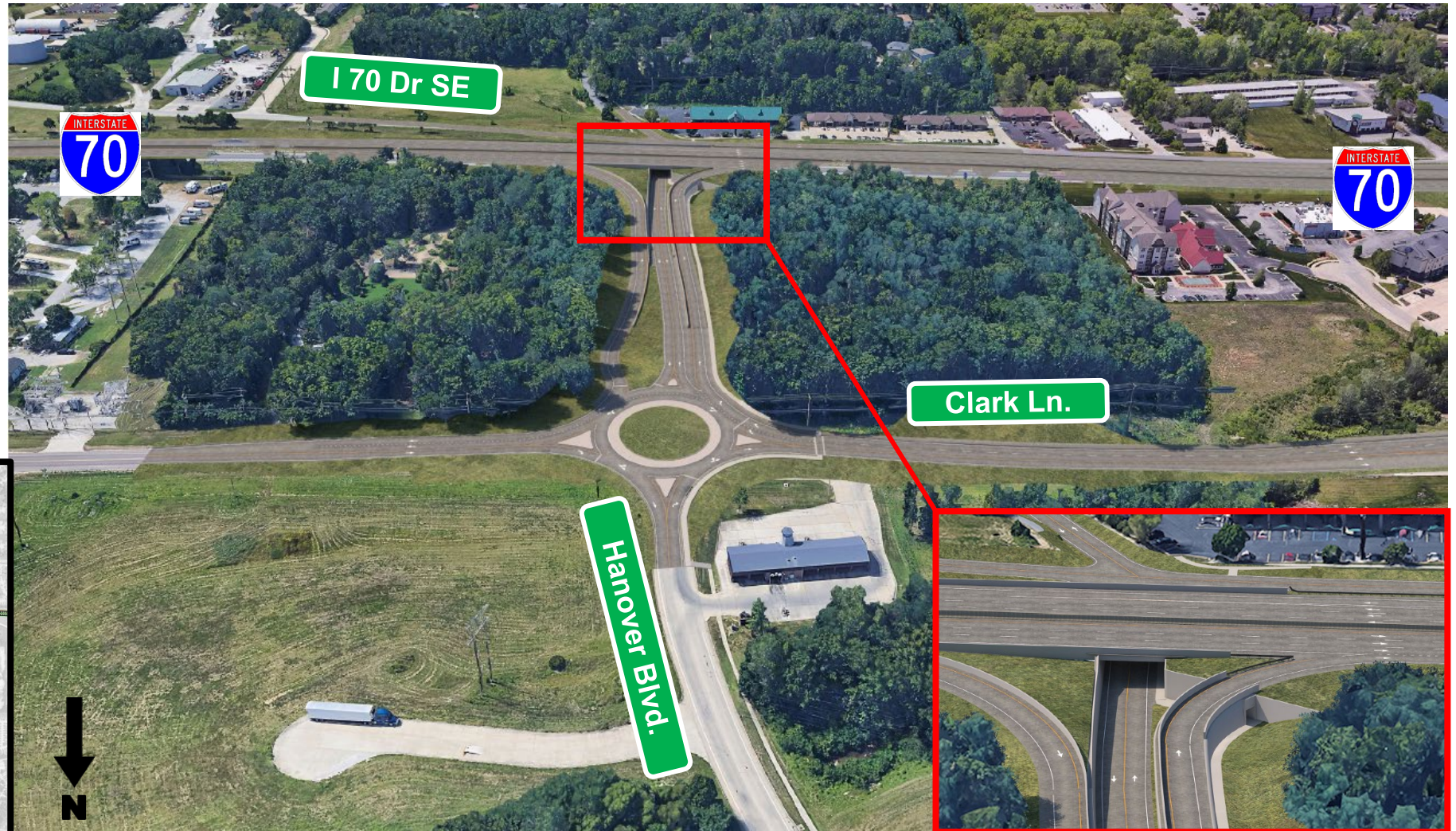
I-70/U.S. 63

➤➤ US 63 INTERCHANGE

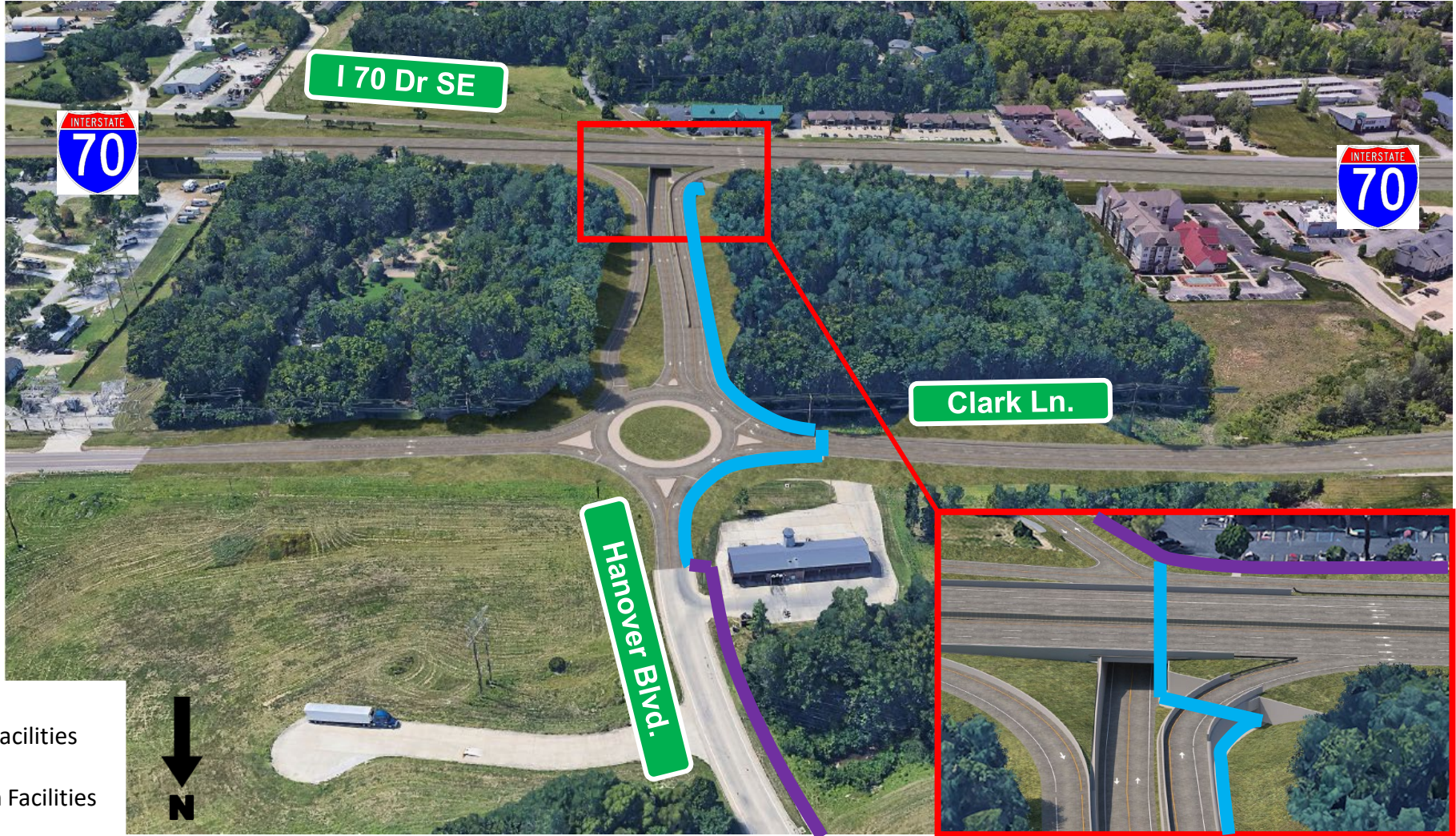
- 1 Paris Road
- 2 Hanover Boulevard Roundabout
- 3 Clark Lane Roundabout
- 4 Business Loop 70 East Roundabout
- 5 Direct Connect Ramps:
 - NB US 63 to WB I-70
 - EB I-70 to SB US 63
- 6 EB Collector-Distributor Road
- 7 US 63 Underpass
- 8 Conley Road Roundabout
- 9 I-70 Underpass (Clark Connector)



I-70/U.S. 63 – Hanover Blvd Roundabout/ I-70 Underpass

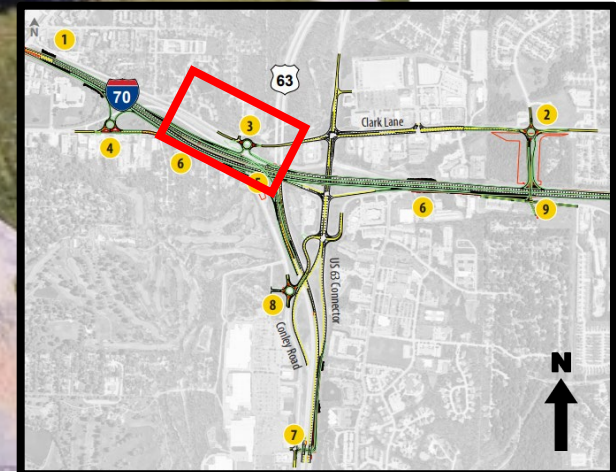


Pedestrian Connectivity – Hanover Blvd Roundabout/ I-70 Underpass



- Legend**
- Existing Pedestrian Facilities
 - Proposed Pedestrian Facilities

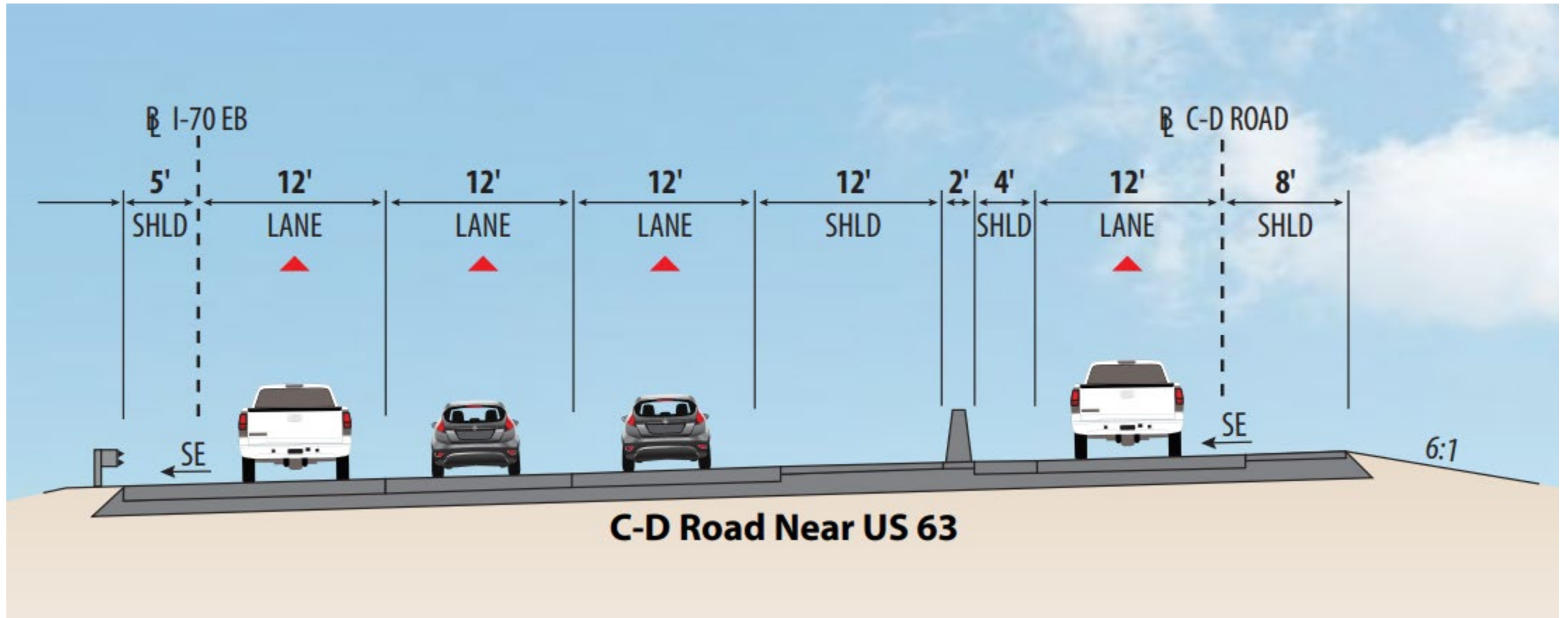
I-70/U.S. 63 – Clark Lane Roundabout



I-70/U.S. 63 – Direct Connect Ramps & Collector Distributor Road



I-70/U.S. 63 – Eastbound Collector-Distributor Road

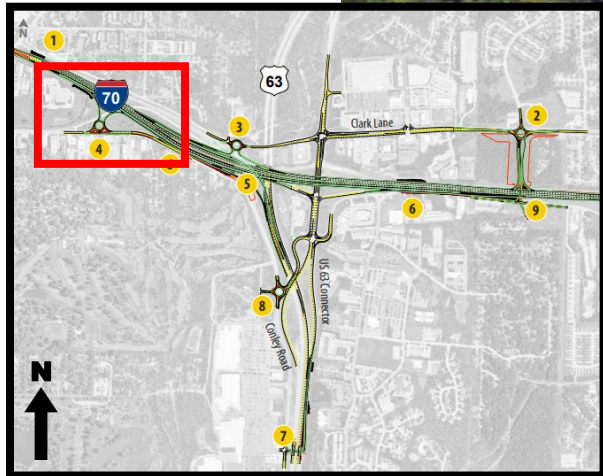


Pedestrian Connectivity – U.S. 63 Connector

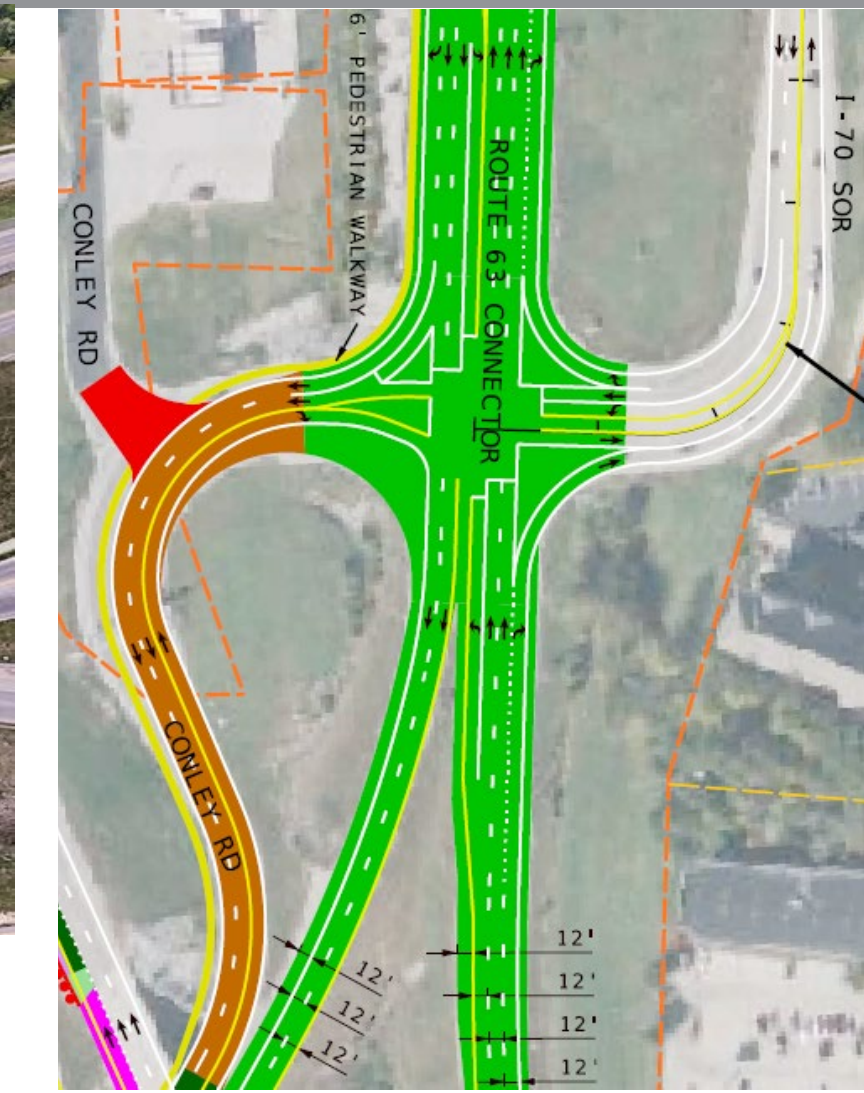
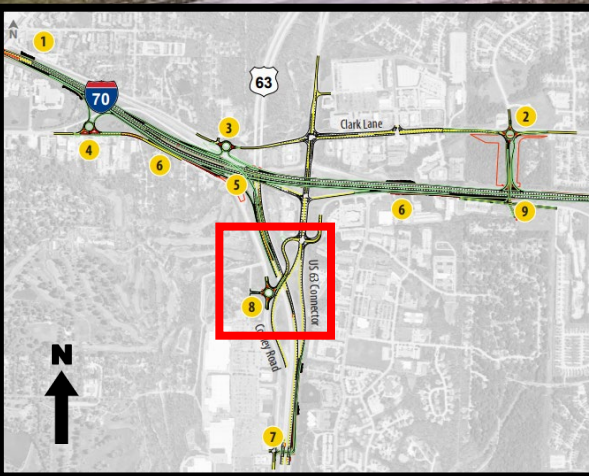


- Legend
- Existing Pedestrian Facilities
 - Proposed Pedestrian Facilities

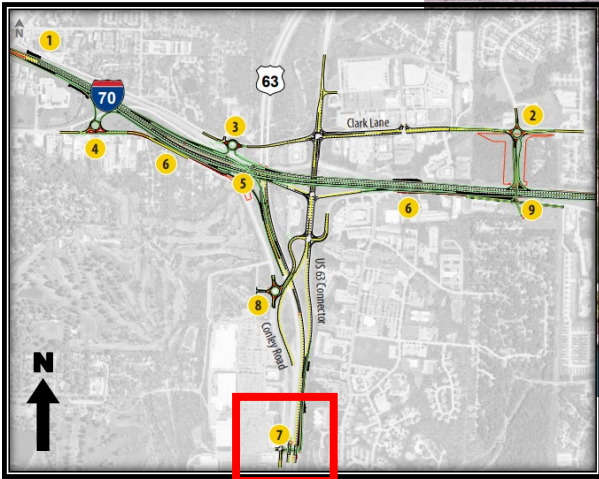
I-70/U.S. 63 – Business Loop 70 Roundabout



I-70/U.S. 63 – Conley Rd. Roundabout



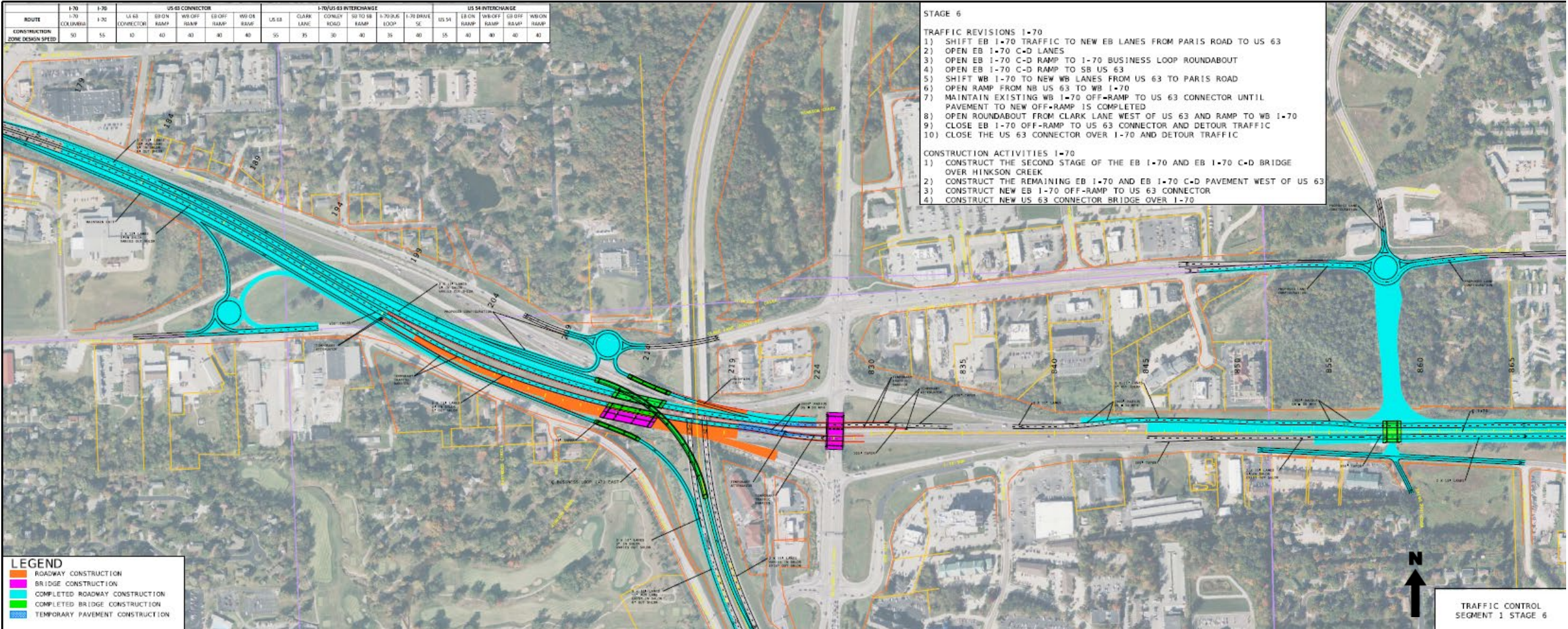
I-70/U.S. 63 – U.S. 63 Underpass



U.S. 63 Interchange – Phase 6



ROUTE	I-70		US 63 CONNECTOR				I-70/US 63 INTERCHANGE				US 54 INTERCHANGE							
	I-70 COLLEMBUS	I-70	LA 63 CONNECTOR	EB ON RAMP	WB OFF RAMP	EB OFF RAMP	WB ON RAMP	US 63	CLARK LANE	COMLEY ROAD	SR TO SB RAMP	I-70 (BUS LOOP)	I-70 DRIVE SE	US 54	EB ON RAMP	WB OFF RAMP	EB OFF RAMP	WB ON RAMP
CONSTRUCTION	50	55	40	40	40	40	40	55	35	30	40	35	40	55	40	40	40	40
ZONE DESIGN SPEED																		



STAGE 6

TRAFFIC REVISIONS I-70

- 1) SHIFT EB I-70 TRAFFIC TO NEW EB LANES FROM PARIS ROAD TO US 63
- 2) OPEN EB I-70 C-D LANES
- 3) OPEN EB I-70 C-D RAMP TO I-70 BUSINESS LOOP ROUNDABOUT
- 4) OPEN EB I-70 C-D RAMP TO SB US 63
- 5) SHIFT WB I-70 TO NEW WB LANES FROM US 63 TO PARIS ROAD
- 6) OPEN RAMP FROM NB US 63 TO WB I-70
- 7) MAINTAIN EXISTING WB I-70 OFF-RAMP TO US 63 CONNECTOR UNTIL PAVEMENT TO NEW OFF-RAMP IS COMPLETED
- 8) OPEN ROUNDABOUT FROM CLARK LANE WEST OF US 63 AND RAMP TO WB I-70
- 9) CLOSE EB I-70 OFF-RAMP TO US 63 CONNECTOR AND DETOUR TRAFFIC
- 10) CLOSE THE US 63 CONNECTOR OVER I-70 AND DETOUR TRAFFIC

CONSTRUCTION ACTIVITIES I-70

- 1) CONSTRUCT THE SECOND STAGE OF THE EB I-70 AND EB I-70 C-D BRIDGE OVER HINKSON CREEK
- 2) CONSTRUCT THE REMAINING EB I-70 AND EB I-70 C-D PAVEMENT WEST OF US 63
- 3) CONSTRUCT NEW EB I-70 OFF-RAMP TO US 63 CONNECTOR
- 4) CONSTRUCT NEW US 63 CONNECTOR BRIDGE OVER I-70

LEGEND

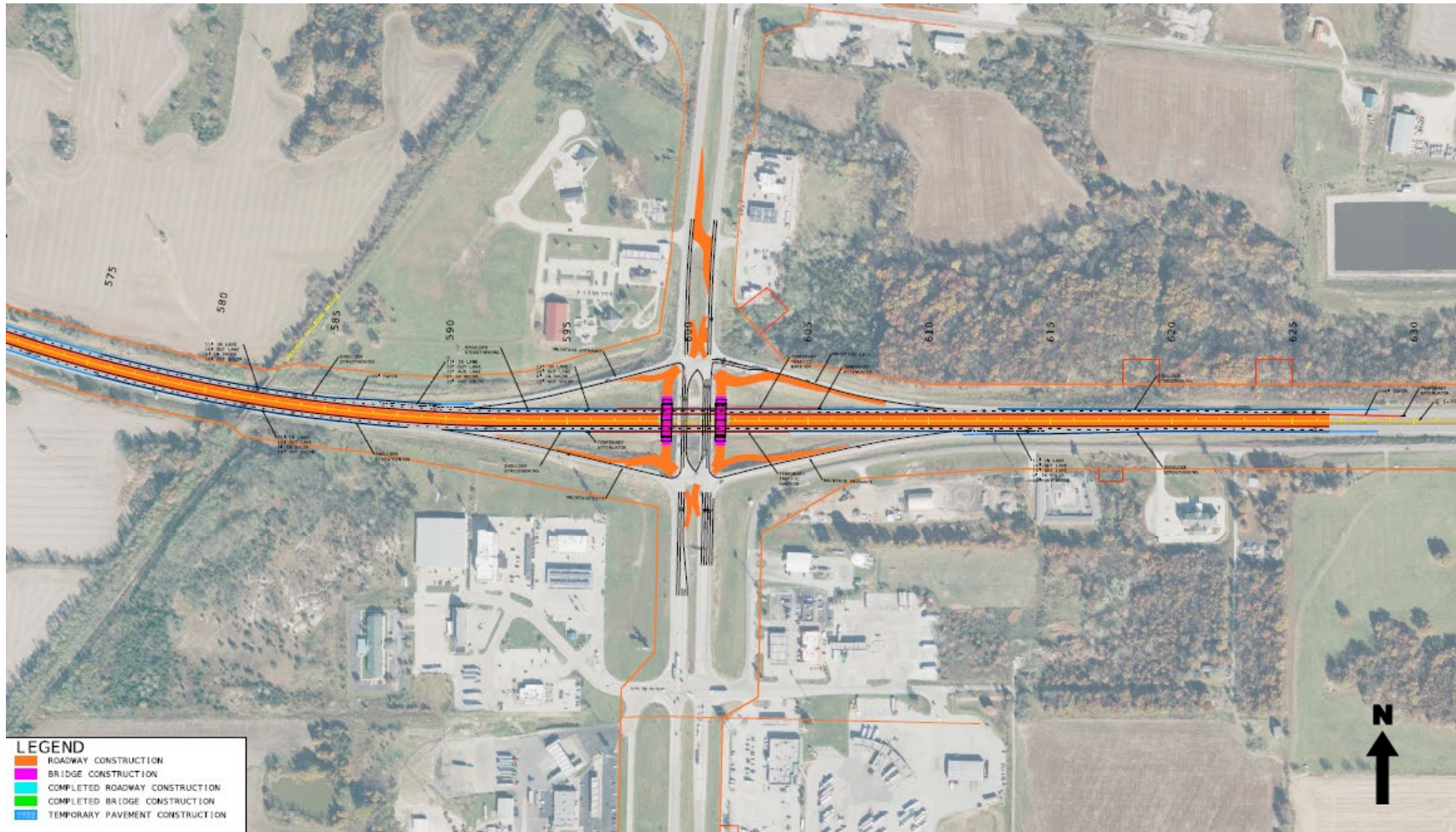
- ROADWAY CONSTRUCTION
- BRIDGE CONSTRUCTION
- COMPLETED ROADWAY CONSTRUCTION
- COMPLETED BRIDGE CONSTRUCTION
- TEMPORARY PAVEMENT CONSTRUCTION

TRAFFIC CONTROL
SEGMENT 1 STAGE 6

I-70/U.S. 54



U.S. 54 Interchange – Phase 1



- Bridges built offline
- Route 54 traffic remains in current position throughout phase 1
- No lane restrictions during bridge construction

Fly Through Video



Ongoing Community Meetings

- Have met with the City of Columbia and the Columbia Bike/Pedestrian group
 - These meetings have gone very well and have helped to address concerns before public meetings
- Upcoming meetings are being scheduled with Mizzou and other large employers in Columbia

Upcoming Public Meetings

- Public Meeting in Columbia on May 1st
- Public Meeting in Kingdom City on May 2nd
- Industry Meeting on April 10th
 - Program update for West side of the state

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WARRENTON TO WENTZVILLE

PROJECT # 2

- I-70 Third Lane – Warrenton to Wentzville
- I-70 Wentzville Curve Realignment & Railroad Overpass
- I-70/I-64 Interchange Improvements
- I-64 Third Lane – I-70 to Route K
 - Pavement repairs

WARRENTON TO WENTZVILLE

PROJECT # 2

- Owner Engineer Selection:
 - Wilson & Co.
 - Hg Consult
 - Trekk
- RFQ: May/June 2024
- Shortlist/RFP Release: July 2024
- Award: Late 2024

BLUE SPRINGS TO ODESSA PROJECT # 3

- I-70 Third Lane – MO 7 in Blue Springs to MO 131 in Odessa
- Includes reconstruction of Route 131 interchange in Odessa

BLUE SPRINGS TO ODESSA PROJECT # 3

- Owner Engineer: TBD
- RFQ: Late Summer 2024
- Shortlist/RFP Release: Fall 2024
- Award: Early 2025



Questions?

www.modot.org/improvei70

- I-70 Program Email
improvei70@modot.mo.gov
- I-70 Central Project Team
improvei70central@modot.mo.gov
- Jeff Gander
jeffery.gander@modot.mo.gov