



OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION



Report for Battlefield, MO

ROUTE FF CORRIDOR STUDY

Appendix

MARCH 2023



PREPARED BY



ROUTE FF CORRIDOR STUDY 2022 BATTLEFIELD, MO



SEGMENT 3
Recommended Improvements:
3-Lane Section
Intersection Improvements @ FR 190 and Blue Springs
Sidewalk on West side
Shared-Use Path on East side

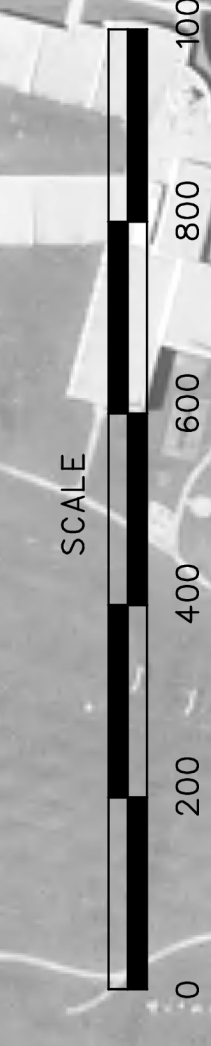
SEGMENT 2
Recommended Improvements:
3-Lane Section
Raised Median w/ openings for access
Intersection Improvements at 3rd Street @ Azalea
Sidewalk on West side
Shared-Use Path on East side
Trail of Tears mid-block crossing

SEGMENT 1
Recommended Improvements:
4-Lane Section
Intersection Improvements @ Weaver
Raised Median
Sidewalk on West side
Shared-Use Path on East side

EXISTING TRAFFIC VOLUMES
2,500 vehicles per day
PROJECTED TRAFFIC VOLUMES
6,800 - 10,900 vehicles per day

EXISTING TRAFFIC VOLUMES
6,000 - 9,000 vehicles per day
PROJECTED TRAFFIC VOLUMES
12,100 - 14,500 vehicles per day

EXISTING TRAFFIC VOLUMES
10,600 vehicles per day
PROJECTED TRAFFIC VOLUMES
14,700 - 16,500 vehicles per day



COST ESTIMATE

(Weaver & Route FF)



OZARKS TRANSPORTATION ORGANIZATION
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Report for Battlefield, MO

ROUTE FF CORRIDOR STUDY

Appendix

Bid Report

Project: Route FF & Weaver Road Intersection Improvements	Job Number: JSU0004	Bid Date: 12/12/2022	State: MO
Location: Greene County			

Project Settings

Primary County: GREENE	Urban / Rural: URBAN ROUTE
Addl Counties:	Project Type: GRADING, DRAINAGE & PAVING
District: Southwest	Work Type: NEW CONSTRUCTION
Latitude: 37° 07' 27"	Traffic:
Longitude: 93° 22' 12"	Estimator: rstehn@cmtengr.com
Log Mile: Beg: 1.700	Constr Eng: 25.00%
End: 2.117	Priced Date: 12/12/2022
Station: Beg:	Create Date: 12/12/2022
End:	Fed Project No:
Project Length: 0.4170 miles	Mobe Percent: 5.00%
Route: FF	Survey Percent: 1.50%

Project Sections	STIP Information
------------------	------------------

1 Roadway	\$2,157,699.88	94.32%	Construction Cost	\$2,287,699.88	59.94%
20 Lighting	\$80,000.00	3.50%	PE (18.00% of construction cost)	\$411,785.98	10.79%
40 Signing	\$50,000.00	2.19%	CE (25.00% of construction cost)	\$571,924.97	14.99%
Total	\$2,287,699.88	100.0%	R/W	\$80,000.00	2.10%

Major Categories	STIP Information				
BRIDGE	\$0.00	0.00%	R/W Incidentals	\$65,000.00	1.70%
GRADE/DRAIN	\$378,000.00	16.52%	Utilities	\$400,000.00	10.48%
MISC.	\$1,081,574.88	47.28%	Incentive	\$0.00	0.00%
PAVEMENT/BASE	\$828,125.00	36.20%	Total	\$3,816,410.83	100.0%
Total	\$2,287,699.88	100.0%			

Bid Report

Project: Route FF & Weaver Road Intersection Improvements	Job Number: JSU0004	Bid Date: 12/12/2022	State: MO
Location: Greene County			

Section: Roadway

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
0	2022010	REMOVAL OF IMPROVEMENTS	--	1.000	L.S.	100,000.00	100,000.00
10	2035000	UNCLASSIFIED EXCAVATION	--	18,000.000	C.Y.	16.00	288,000.00
20	2036000	COMPACTING EMBANKMENT	--	3,000.000	C.Y.	5.00	15,000.00
30	3040504	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	--	13,150.000	S.Y.	12.50	164,375.00
40	4019905	MISC. {12 IN. BITUMINOUS PAVEMENT}	--	10,500.000	S.Y.	60.00	630,000.00
50	5029905	MISC. {8 IN. TRUCK APRON}	--	450.000	S.Y.	75.00	33,750.00
70	6081000	CONCRETE MEDIAN	--	600.000	S.Y.	80.00	48,000.00
60	6081010	CONCRETE CURB RAMP	--	130.000	S.Y.	165.00	21,450.00
80	6086004	"CONCRETE SIDEWALK, 4 IN."	--	2,650.000	S.Y.	55.00	145,750.00
90	6091052	CURB AND GUTTER TYPE B	--	7,500.000	L.F.	45.00	337,500.00
100	6092011	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE A	--	200.000	L.F.	40.00	8,000.00
110	6092031	CONCRETE CURB LOW PROFILE TYPE E	--	300.000	L.F.	25.00	7,500.00
120	6169901	MISC. {TRAFFIC CONTROL}	--	1.000	L.S.	80,000.00	80,000.00
130	6181000	MOBILIZATION	--	1.000	L.S.	107,403.75	107,403.75
140	6209901	MISC. {PAVEMENT MARKING}	--	1.000	L.S.	15,000.00	15,000.00
150	6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	--	1.000	L.S.	32,221.13	32,221.12
160	7339901	MISC. {DRAINAGE}	--	1.000	L.S.	75,000.00	75,000.00
170	8031000A	TURF TYPE TALL FESCUE SODDING	--	1,250.000	S.Y.	15.00	18,750.00
180	8069901	MISC. {EROSION CONTROL}	--	1.000	L.S.	30,000.00	30,000.00

Category: Roadway \$2,157,699.87

Section: Lighting

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
190	9019901	MISC. {LIGHTING}	--	1.000	L.S.	80,000.00	80,000.00

Category: Lighting \$80,000.00

Section: Signing

Sort	Pay Item	Description	Count	Quantity	Unit	Unit Price	Extension
200	9039901	MISC. {SIGNING}	--	1.000	L.S.	50,000.00	50,000.00

Category: Signing \$50,000.00

Total: \$2,287,699.87

REPORT PARAMETERS	
Project	JSU0004 - Route FF & Weaver Road Intersection Improvements

Bid Report

Project: Route FF & Weaver Road Intersection Improvements	Job Number: JSU0004	Bid Date: 12/12/2022	State: MO
Location: Greene County			

Comparison	Bid Price
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SAFETY



Report for Battlefield, MO

ROUTE FF CORRIDOR STUDY

Appendix

NCHRP

REPORT 672

Roundabouts: An Informational Guide

Second Edition

TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

NATIONAL
COOPERATIVE
HIGHWAY
RESEARCH
PROGRAM

In Cooperation with



U.S. Department
of Transportation

Federal Highway
Administration

3.4.5 SCHOOLS

Roundabouts may be an optimal choice for intersection control in the vicinity of schools (see Exhibit 3-6). One primary benefit is the reduction of vehicle speeds in and around the roundabout. Roundabouts improve pedestrian crossing opportunities, providing mid-block refuge and the ability for pedestrians to focus on one traffic stream at a time while crossing. Lower speeds also reduce the severity of vehicle–pedestrian crashes. Near schools, single-lane roundabouts are generally preferable to multilane roundabouts due to simpler crossings for children. However, if the traffic volume is sufficiently high, a multilane roundabout may still be preferable to a large signalized intersection.



Clearwater, Florida

Exhibit 3-6
Schools

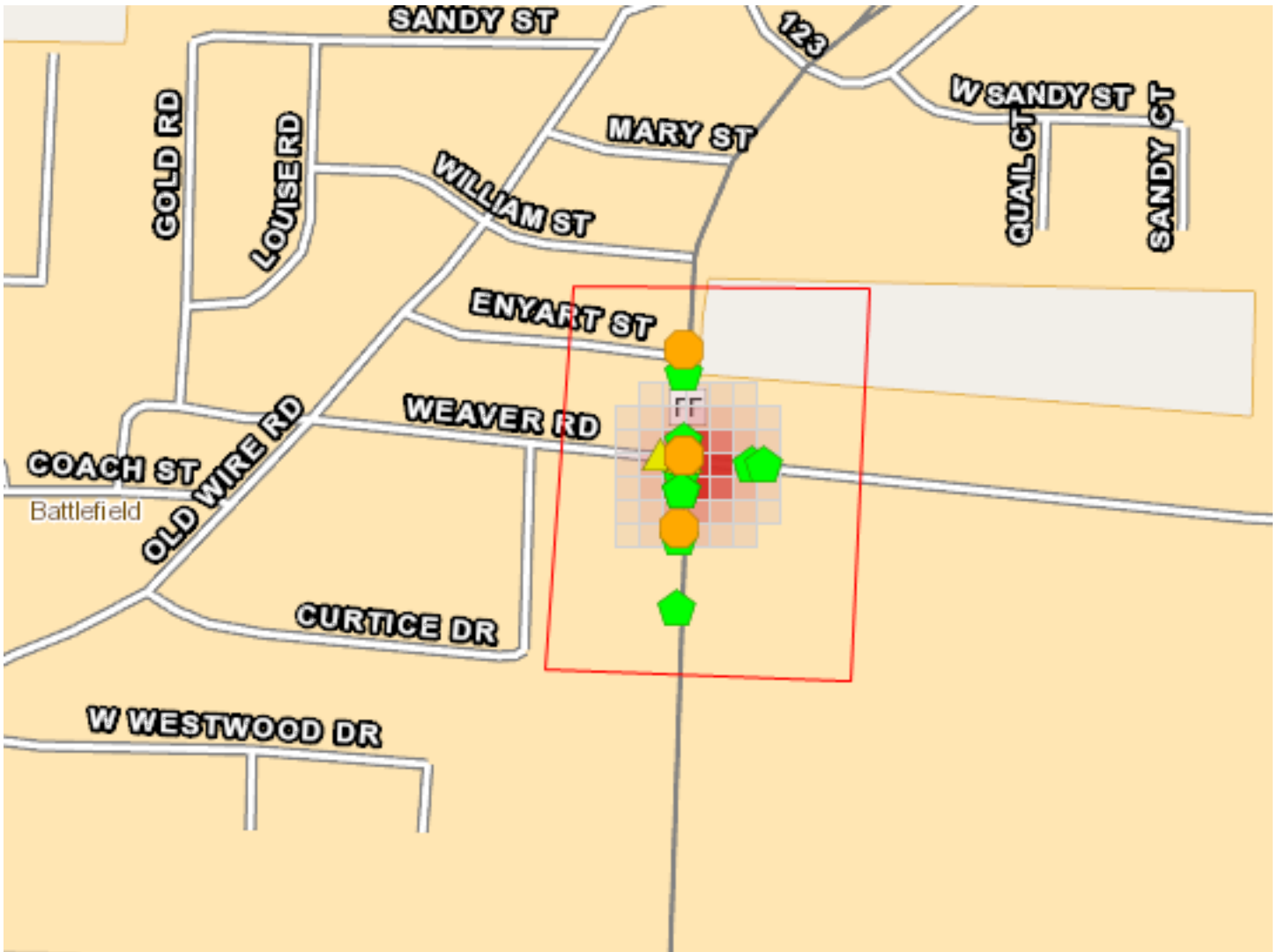
Benefits	Considerations
<ul style="list-style-type: none"> • Lower vehicle speeds in and around intersection • Improved pedestrian and vehicle safety • Landscaping and gateway treatment 	<ul style="list-style-type: none"> • Design vehicle (school bus, emergency vehicles) • Right-of-way • User education and outreach • If crossing guards are used, the distance between crosswalks may require two crossing guards instead of one.

MoDOT Safety Data Zone Crash Tool

This PDF generated on November 1, 2022.

NOTE: The crash data contained in this PDF may not be as current as the date of this PDF.

FF/Weaver



Crash Totals		Personal Injury Totals	
Fatal Crashes	0	Fatalities	0
Serious Injury Crashes	4	Serious Injuries	4
Minor Injury Crashes	6	Minor Injuries	14
PDO Crashes	27		
Total Crashes	37		

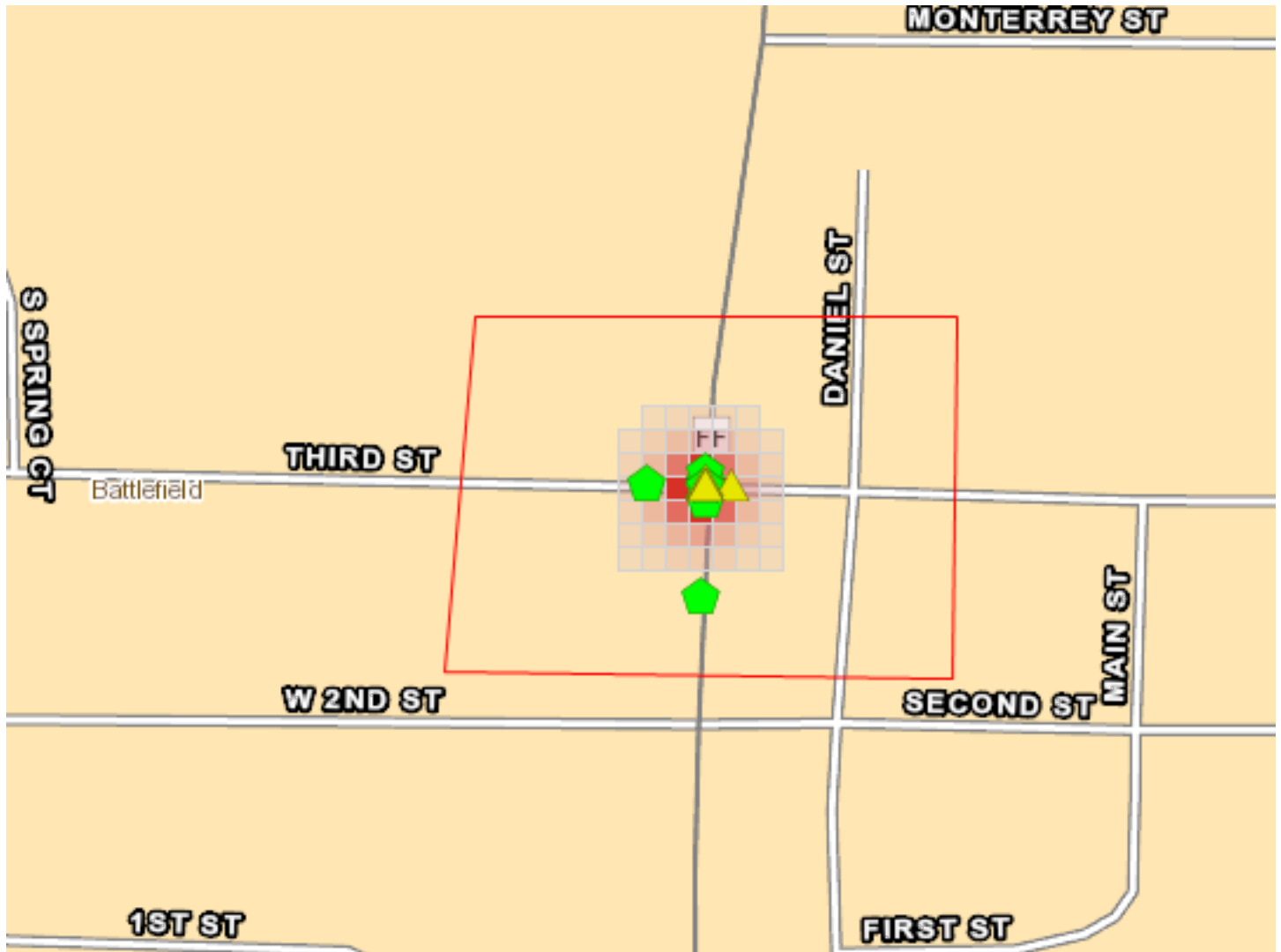
- ✘ Unknown
- ▬ Prop Damage Only
- ▴ Minor Injury
- Disabling Injury
- Fatal

MoDOT Safety Data Zone Crash Tool

This PDF generated on November 1, 2022.

NOTE: The crash data contained in this PDF may not be as current as the date of this PDF.

FF/3rd



Crash Totals		Personal Injury Totals	
Fatal Crashes	0	Fatalities	0
Serious Injury Crashes	0	Serious Injuries	0
Minor Injury Crashes	7	Minor Injuries	9
PDO Crashes	14		
Total Crashes	21		

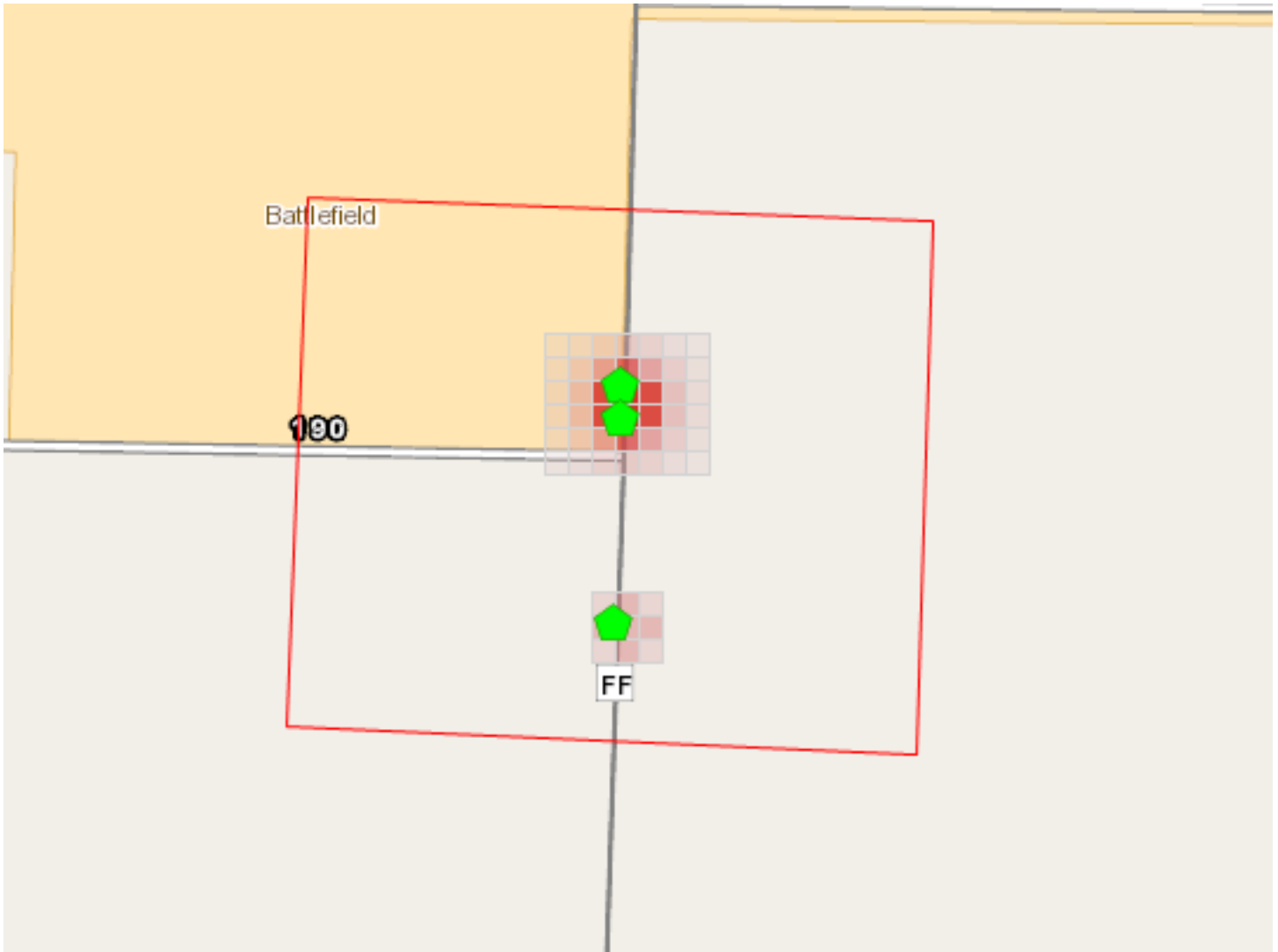
- ✘ Unknown
- ▬ Prop Damage Only
- ▴ Minor Injury
- Disabling Injury
- Fatal

MoDOT Safety Data Zone Crash Tool


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NOTE: The crash data contained in this PDF may not be as current as the date of this PDF.

FF/190



Crash Totals		Personal Injury Totals	
Fatal Crashes	0	Fatalities	0
Serious Injury Crashes	0	Serious Injuries	0
Minor Injury Crashes	0	Minor Injuries	0
PDO Crashes	3		
Total Crashes	3		

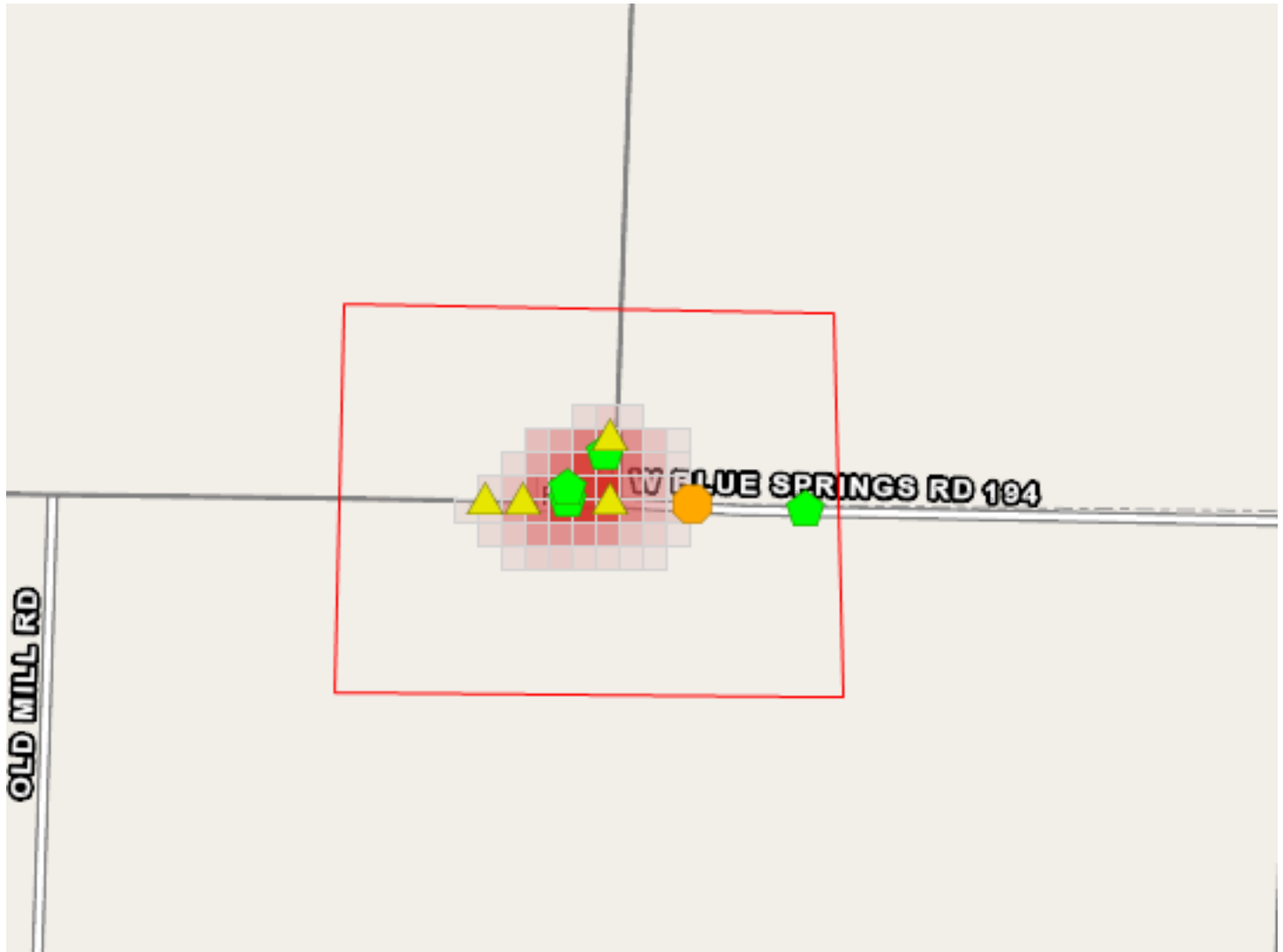
-  Unknown
-  Prop Damage Only
-  Minor Injury
-  Disabling Injury
-  Fatal

MoDOT Safety Data Zone Crash Tool

This PDF generated on November 1, 2022.

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FF/BlueSprings



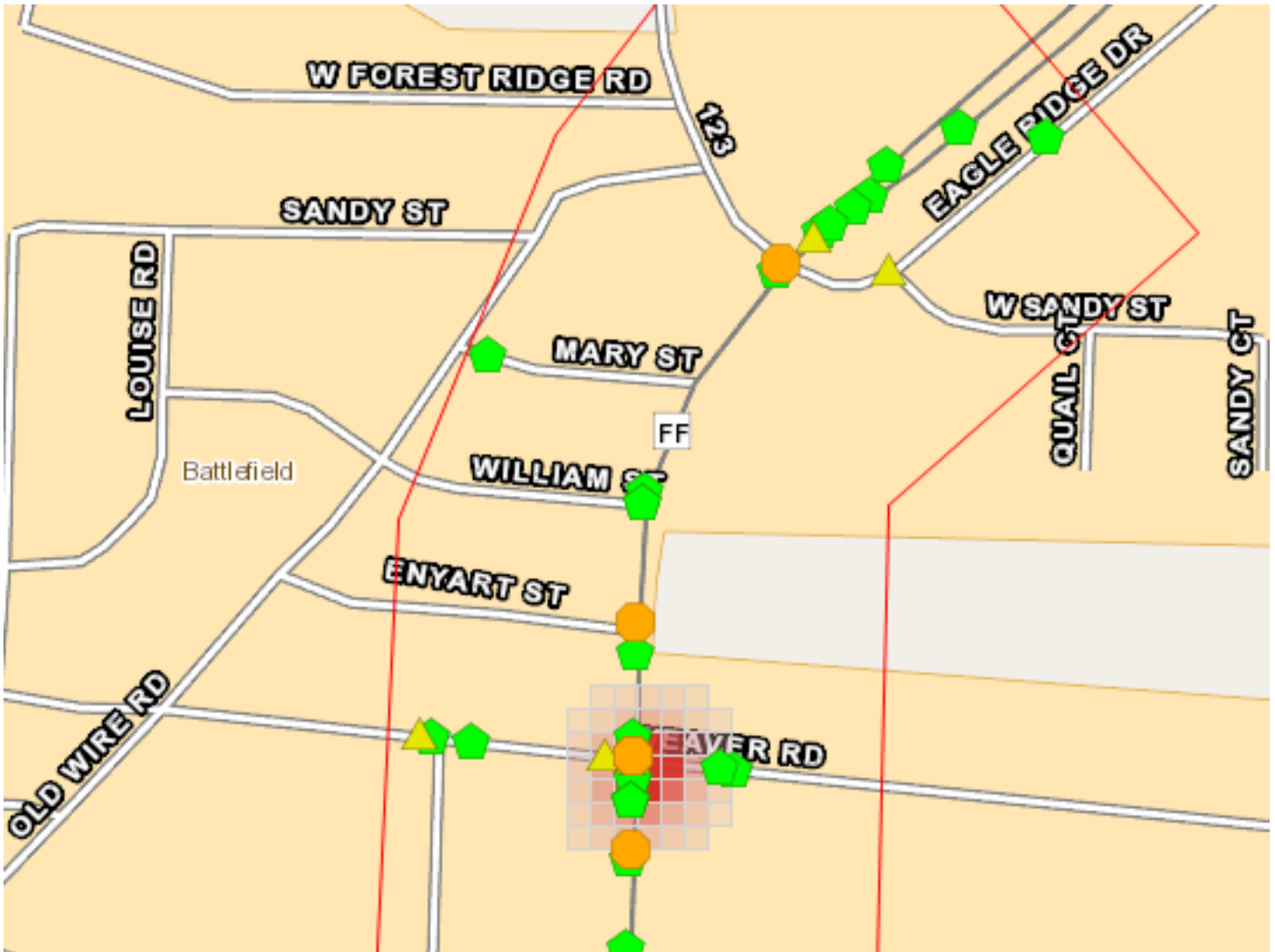
Crash Totals		Personal Injury Totals	
Fatal Crashes	0	Fatalities	0
Serious Injury Crashes	1	Serious Injuries	1
Minor Injury Crashes	4	Minor Injuries	4
PDO Crashes	4		
Total Crashes	9		

- ✖ Unknown
- ⬠ Prop Damage Only
- ▲ Minor Injury
- Disabling Injury
- Fatal

MoDOT Safety Data Zone Crash Tool

This PDF generated on November 17, 2022.

NOTE: The crash data contained in this PDF may not be as current as the date of this PDF.



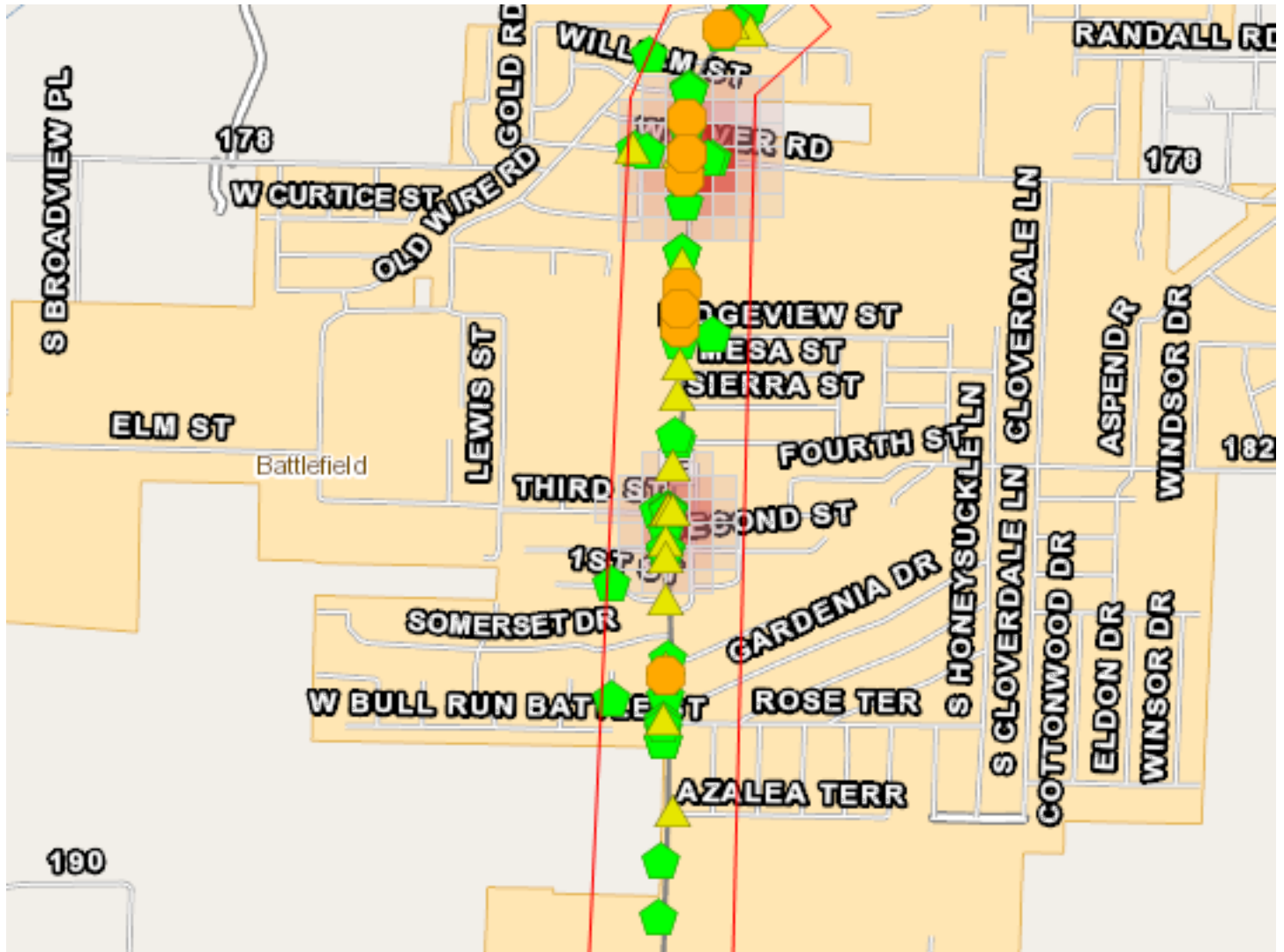
Crash Totals		Personal Injury Totals	
Fatal Crashes	0	Fatalities	0
Serious Injury Crashes	5	Serious Injuries	5
Minor Injury Crashes	9	Minor Injuries	17
PDO Crashes	40		
Total Crashes	54		

- ✕ Unknown
- ▬ Prop Damage Only
- ▲ Minor Injury
- Disabling Injury
- Fatal

MoDOT Safety Data Zone Crash Tool

This PDF generated on November 17, 2022.

NOTE: The crash data contained in this PDF may not be as current as the date of this PDF.



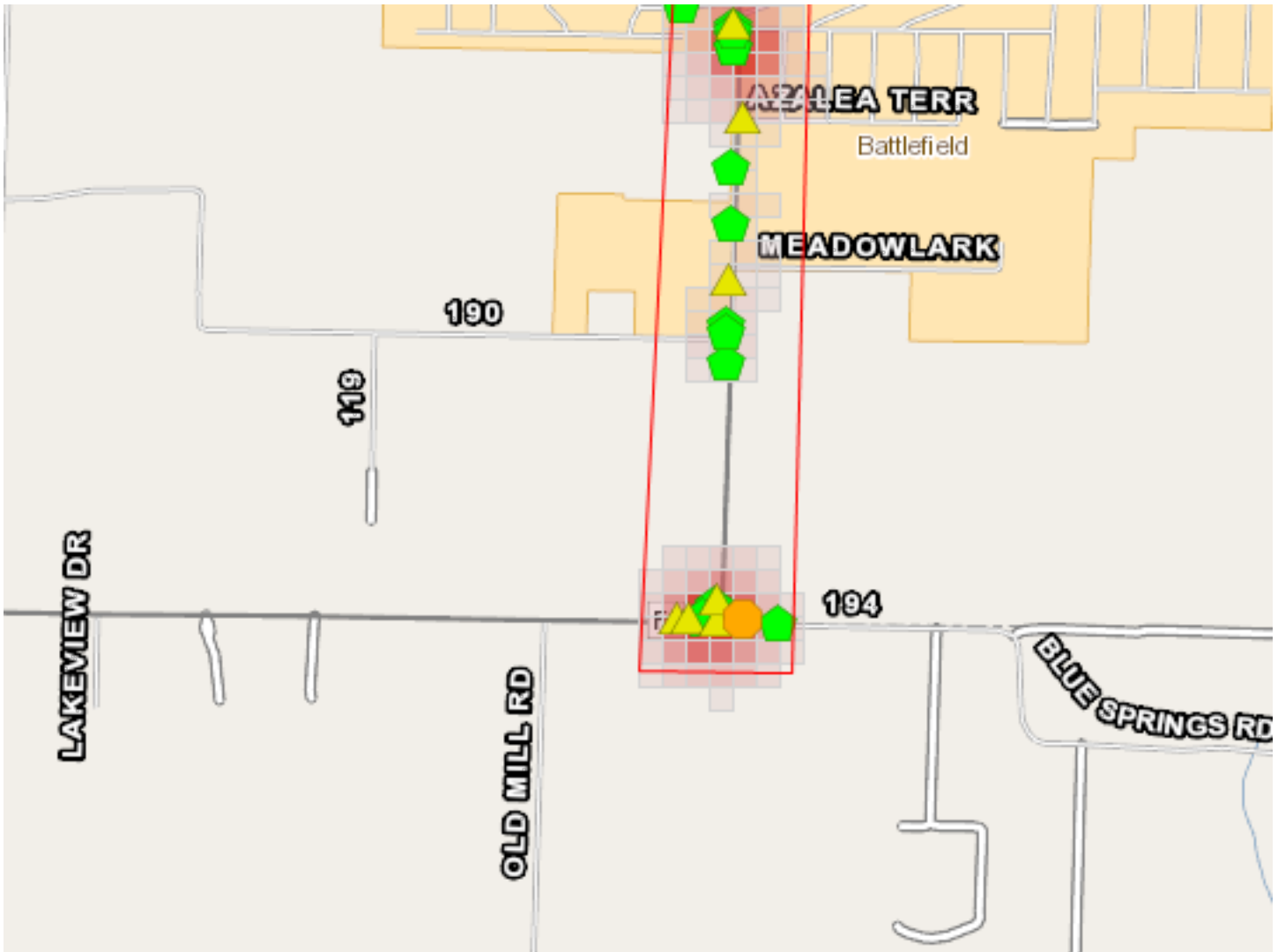
Crash Totals		Personal Injury Totals	
Fatal Crashes	0	Fatalities	0
Serious Injury Crashes	8	Serious Injuries	8
Minor Injury Crashes	24	Minor Injuries	39
PDO Crashes	71		
Total Crashes	103		

- ✖ Unknown
- ▣ Prop Damage Only
- ▲ Minor Injury
- Disabling Injury
- Fatal

MoDOT Safety Data Zone Crash Tool

This PDF generated on November 17, 2022.

NOTE: The crash data contained in this PDF may not be as current as the date of this PDF.



Crash Totals		Personal Injury Totals	
Fatal Crashes	0	Fatalities	0
Serious Injury Crashes	1	Serious Injuries	1
Minor Injury Crashes	6	Minor Injuries	7
PDO Crashes	9		
Total Crashes	16		

- ✖ Unknown
- ◆ Prop Damage Only
- ▲ Minor Injury
- Disabling Injury
- Fatal

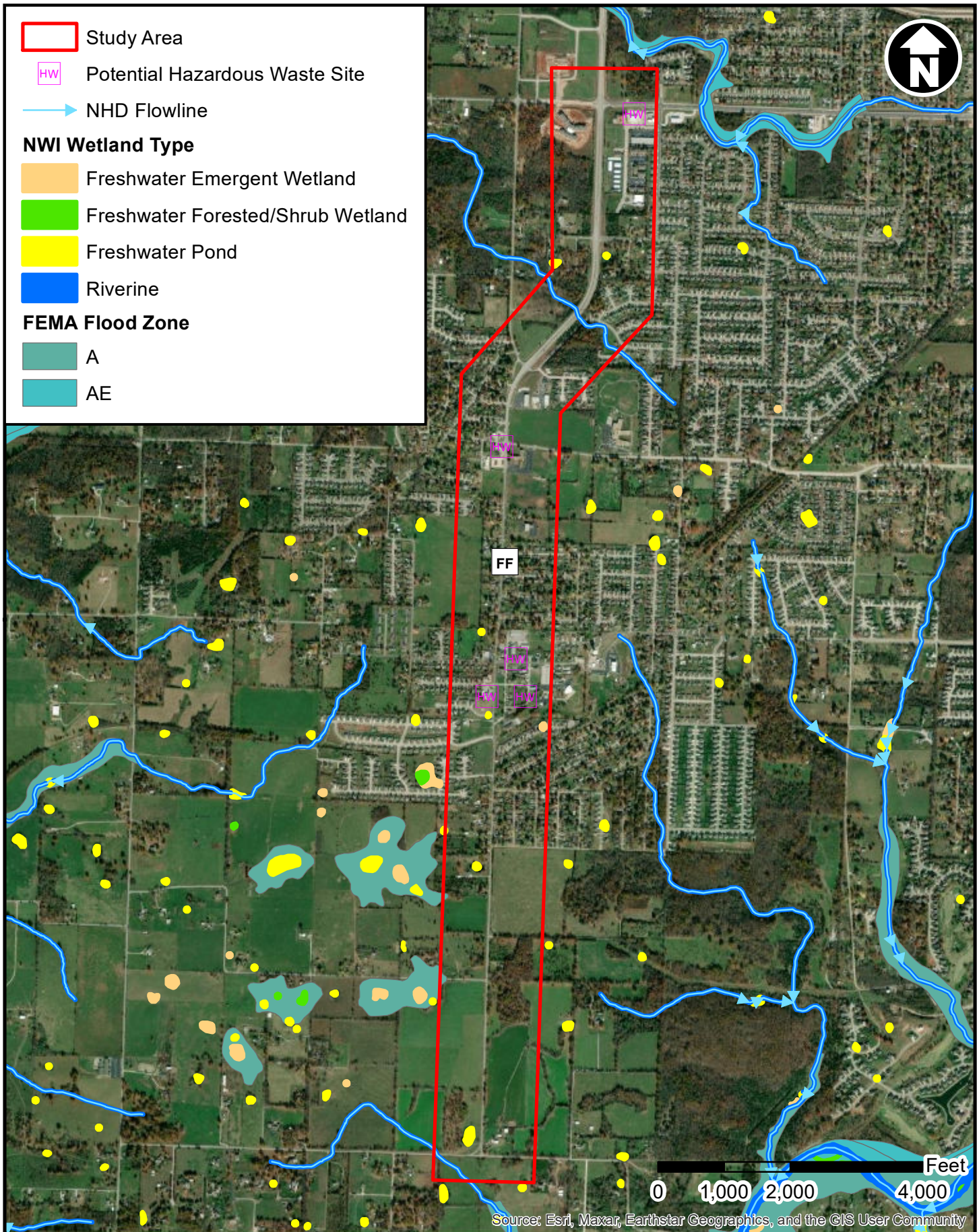
ENVIRONMENTAL



Report for Battlefield, MO

ROUTE FF CORRIDOR STUDY

Appendix



Route FF Project Corridor - Battlefield, MO Environmental Resources Map



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

In Reply Refer To:
Project Code: 2023-0003815
Project Name: Battlefield MO Route FF Corridor Study

October 12, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Threatened and Endangered Species

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and may be affected by your proposed project. The species list fulfills the requirement for obtaining a Technical Assistance Letter from the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. **Note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days.** The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

Consultation Technical Assistance

Refer to the Midwest Region [S7 Technical Assistance](#) website for step-by-step instructions for making species determinations and for specific guidance on the following types of projects:

projects in developed areas, HUD, pipelines, buried utilities, telecommunications, and requests for a Conditional Letter of Map Revision (CLOMR) from FEMA.

Federally Listed Bat Species

Indiana bats, gray bats, and northern long-eared bats occur throughout Missouri and the information below may help in determining if your project may affect these species.

Gray bats - Gray bats roost in caves or mines year-round and use water features and forested riparian corridors for foraging and travel. If your project will impact caves, mines, associated riparian areas, or will involve tree removal around these features – particularly within stream corridors, riparian areas, or associated upland woodlots –gray bats could be affected.

Indiana and northern long-eared bats - These species hibernate in caves or mines only during the winter. In Missouri the hibernation season is considered to be November 1 to March 31. During the active season in Missouri (April 1 to October 31) they roost in forest and woodland habitats. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥ 5 inches diameter at breast height (dbh) for Indiana bat, and ≥ 3 inches dbh for northern long-eared bat, that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Tree species often include, but are not limited to, shellbark or shagbark hickory, white oak, cottonwood, and maple. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat and evaluated for use by bats. If your project will impact caves or mines or will involve clearing forest or woodland habitat containing suitable roosting habitat, Indiana bats or northern long-eared bats could be affected.

Examples of unsuitable habitat include:

- Individual trees that are greater than 1,000 feet from forested or wooded areas;
- Trees found in highly-developed urban areas (e.g., street trees, downtown areas);
- A pure stand of less than 3-inch dbh trees that are not mixed with larger trees; and
- A stand of eastern red cedar shrubby vegetation with no potential roost trees.

Using the IPaC Official Species List to Make No Effect and May Affect Determinations for Listed Species

1. If IPaC returns a result of “There are no listed species found within the vicinity of the project,” then project proponents can conclude the proposed activities will have **no effect** on any federally listed species under Service jurisdiction. Concurrence from the Service is not required for **No Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records. An example ["No Effect" document](#) also can be found on the S7 Technical Assistance website.
-

2. If IPaC returns one or more federally listed, proposed, or candidate species as potentially present in the action area of the proposed project – other than bats (see #3 below) – then project proponents can conclude the proposed activities **may affect** those species. For assistance in determining if suitable habitat for listed, candidate, or proposed species occurs within your project area or if species may be affected by project activities, you can obtain [Life History Information for Listed and Candidate Species](#) through the S7 Technical Assistance website.
3. If IPaC returns a result that one or more federally listed bat species (Indiana bat, northern long-eared bat, or gray bat) are potentially present in the action area of the proposed project, project proponents can conclude the proposed activities **may affect** these bat species **IF** one or more of the following activities are proposed:
 - a. Clearing or disturbing suitable roosting habitat, as defined above, at any time of year;
 - b. Any activity in or near the entrance to a cave or mine;
 - c. Mining, deep excavation, or underground work within 0.25 miles of a cave or mine;
 - d. Construction of one or more wind turbines; or
 - e. Demolition or reconstruction of human-made structures that are known to be used by bats based on observations of roosting bats, bats emerging at dusk, or guano deposits or stains.

If none of the above activities are proposed, project proponents can conclude the proposed activities will have **no effect** on listed bat species. Concurrence from the Service is not required for **No Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records. An example ["No Effect" document](#) also can be found on the S7 Technical Assistance website.

If any of the above activities are proposed in areas where one or more bat species may be present, project proponents can conclude the proposed activities **may affect** one or more bat species. We recommend coordinating with the Service as early as possible during project planning. If your project will involve removal of over 5 acres of suitable forest or woodland habitat, we recommend you complete a Summer Habitat Assessment prior to contacting our office to expedite the consultation process. The Summer Habitat Assessment Form is available in Appendix A of the most recent version of the [Range-wide Indiana Bat Summer Survey Guidelines](#).

Other Trust Resources and Activities

Bald and Golden Eagles - Although the bald eagle has been removed from the endangered species list, this species and the golden eagle are protected by the Bald and Golden Eagle Act and the Migratory Bird Treaty Act. Should bald or golden eagles occur within or near the project area please contact our office for further coordination. For communication and wind energy projects, please refer to additional guidelines below.

Migratory Birds - The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Service. The Service has the responsibility under the MBTA

to proactively prevent the mortality of migratory birds whenever possible and we encourage implementation of recommendations that minimize potential impacts to migratory birds. Such measures include clearing forested habitat outside the nesting season (generally March 1 to August 31) or conducting nest surveys prior to clearing to avoid injury to eggs or nestlings.

Communication Towers - Construction of new communications towers (including radio, television, cellular, and microwave) creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. However, the Service has developed [voluntary guidelines for minimizing impacts](#).

Transmission Lines - Migratory birds, especially large species with long wingspans, heavy bodies, and poor maneuverability can also collide with power lines. In addition, mortality can occur when birds, particularly hawks, eagles, kites, falcons, and owls, attempt to perch on uninsulated or unguarded power poles. To minimize these risks, please refer to [guidelines](#) developed by the Avian Power Line Interaction Committee and the Service. Implementation of these measures is especially important along sections of lines adjacent to wetlands or other areas that support large numbers of raptors and migratory birds.

Wind Energy - To minimize impacts to migratory birds and bats, wind energy projects should follow the Service's [Wind Energy Guidelines](#). In addition, please refer to the Service's [Eagle Conservation Plan Guidance](#), which provides guidance for conserving bald and golden eagles in the course of siting, constructing, and operating wind energy facilities.

Next Steps

Should you determine that project activities **may affect** any federally listed species or trust resources described herein, please contact our office for further coordination. Letters with requests for consultation or correspondence about your project should include the Consultation Tracking Number in the header. Electronic submission is preferred.

If you have not already done so, please contact the Missouri Department of Conservation (Policy Coordination, P. O. Box 180, Jefferson City, MO 65102) for information concerning Missouri Natural Communities and Species of Conservation Concern.

We appreciate your concern for threatened and endangered species. Please feel free to contact our office with questions or for additional information.

Karen Herrington

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
 - Wetlands
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Missouri Ecological Services Field Office

101 Park Deville Drive

Suite A

Columbia, MO 65203-0057

(573) 234-2132

Project Summary

Project Code: 2023-0003815
Project Name: Battlefield MO Route FF Corridor Study
Project Type: Road/Hwy - Maintenance/Modification
Project Description: The Route FF study will consider existing and future development patterns to determine the most appropriate roadway design for this vital corridor. This study will focus on Rt FF between Farm Rd 123 and the county line/Blue Springs Rd. Project deliverables will include recommendations on the most suitable Major Thoroughfare Plan classification and roadway cross-sections for various points along the corridor.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.117212699999996,-93.37003651285133,14z>



Counties: Christian and Greene counties, Missouri

Endangered Species Act Species

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Gray Bat <i>Myotis grisescens</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329	Endangered
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949 General project design guidelines: https://ipac.ecosphere.fws.gov/project/IUGURUFRDRA2PKN6KUG7OYF4LA/documents/generated/6868.pdf	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045 General project design guidelines: https://ipac.ecosphere.fws.gov/project/IUGURUFRDRA2PKN6KUG7OYF4LA/documents/generated/6868.pdf	Threatened
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

Reptiles

NAME	STATUS
Alligator Snapping Turtle <i>Macrochelys temminckii</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4658	Proposed Threatened

Fishes

NAME	STATUS
Ozark Cavefish <i>Amblyopsis rosae</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6490	Threatened

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Virginia Sneezeweed <i>Helenium virginicum</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6297	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

- [Riverine](#)

FRESHWATER EMERGENT WETLAND

- [Palustrine](#)
-

IPaC User Contact Information

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State: IL

Zip: 62702

Email: mhatch@cmtengr.com

Phone: 2176919107

Lead Agency Contact Information

Lead Agency: Surface Transportation Board

PLANNING

(Subdivision Regulations)



OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION



Report for Battlefield, MO

ROUTE FF CORRIDOR STUDY

Appendix

Recommended changes to Battlefield's Subdivision Regulations

In achieving the long-term Route FF Corridor Study objectives detailed in this report, it is important for that the City of Battlefield's Land Use Regulations (Chapter 405 of the Municipal Code) be amended to allow for consistency and effective implementation of these objectives as land develops or re-develops in the years ahead.

In assessing Battlefield current Subdivision Regulations, it is important to note that this review is narrowly focused on potential subdivisions which have frontage on Route FF or will derive public street access to Route FF corridor in the future. It is recommended that the City's Planning and Zoning Commission and Council give further consideration as to how recommended Subdivision Code changes for Route FF may impact subdivisions elsewhere in Battlefield.

By way of background, the majority of Battlefield's Subdivision Regulations were adopted in October 2002 by Ordinance No. 02-19 §§ 1 – 5. Numerous additional changes have been made to these regulations since 2002, the most significant of them being Ord. No. 08-16 § 1 from August 2008 and Ord. No. 10-10 §§ 1 – 3 from July 2010.

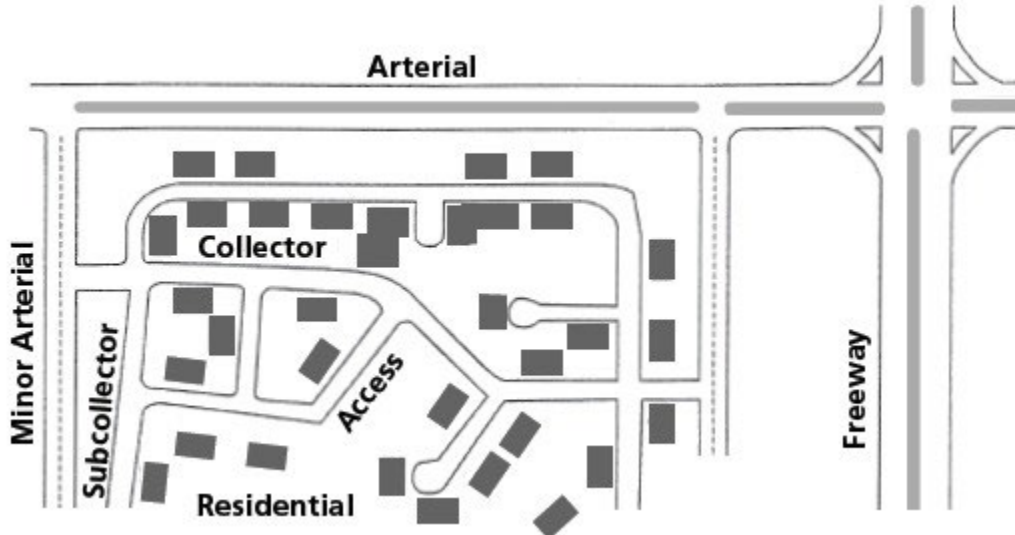
Recommended Subdivision Regulations sections for review by the City include the following:

- 1) Section 405.390 addresses "Lots Abutting State Highways," stating that:
 - a. In platting lands abutting a limited access highway, every effort shall be taken to minimize the adverse impact of heavy or high speed highway traffic on the land being platted and to minimize interference with through traffic.
 - b. Lots abutting highways shall be platted at generous depth. Unless not otherwise possible, vehicular access to such lots shall be provided by minor streets or by frontage roads paralleling the highway. Access to such frontage road or minor street shall be set back at a sufficient distance from the highway intersection so as not to impede the flow of traffic on the highway.
 - c. The frontage of such lots may be reversed and access provided via means of a minor street.

MoDOT's Engineering Policy Guide (located here [https://epg.modot.org/index.php?title=Category:940 Access Management](https://epg.modot.org/index.php?title=Category:940%20Access%20Management)) similarly supports access management best practices in stating "Successful access management also involves a partnership between MoDOT and local land use planning officials. Districts are to establish mutually beneficial and cooperative relationships with city and county stakeholders. Local governments can help MoDOT manage on-site issues that influence the operation of our roadway, but occur beyond the MoDOT right of way."

This being said, while MoDOT has a lot access permitting process for new driveways, lots which have been previously granted access along Route FF will continue to have legal access.

Recommendation: For future subdivisions along Route FF, the City of Battlefield is encouraged to adopt a stronger provision that disallows new direct driveway access onto Route FF. All future platted lots/subdivisions should be required to adhere to roadway layouts similar to the illustration below.



- 2) Section 405.400 states that "The classification, extent and location of all streets shall conform to the Battlefield Comprehensive Plan and the major street plan. Where not shown, the arrangement and design standards of streets shall conform to the provisions herein."

Issue: While the 2021 Comprehensive Plan does not call out street classifications, the City of Battlefield adheres to Ozarks Transportation Organization (OTO) Major Thoroughfare Plan.

Recommendation: If the City of Battlefield anticipates adhering to the OTO's Major Thoroughfare Plan going forward, a minor text amendment to the Subdivision Regulations is recommended to reflect this, providing clarity to the public as to Battlefield's adherence to this plan.

- 3) Section 405.400 states that "All streets, curbs and gutters shall be designed and constructed in accordance with the provisions of this regulation and the City of Battlefield design standards for public improvements"

Issue: Route FF is a Missouri Department of Transportation (MoDOT) maintained roadway. While MoDOT's design standards are applicable in the entirety of its right-of-way, Battlefield's standards begin at the point where the MoDOT-maintained right-of-way ends (a width that can vary along the Route FF corridor).

It is important that Battlefield's roadway design standards readily connect and transition to MoDOT's requirements along Route FF. This can be important in relation

to differing standards that exist between the two government entities. If Battlefield or MoDOT lacks a roadway design standard or adheres to a significantly different standard, it could impact functionality of Battlefield-maintained roads that connect to Route FF, particularly planned roads that have not yet been constructed

Recommendation: Battlefield should assess its roadway design standards to identify instances where a MoDOT design standard is different. Examples may include, but may not be limited to sidewalk width and design standards, how stormwater runoff is handled, intersection sight distances for on and off street bicycle paths, the provision of utility easements, multi-use path designs that meander in and out of MoDOT ROW, provisions relating to decorative signs, lighting and street furniture, on-street parking standards, intersecting street off-set minimums, minimum distances between intersecting streets and driveways, and standards relating to individual lot access onto Route FF.

- 4) Section 405.410 states that "Sidewalks are required on both sides of the street for collector streets and higher, except for 'Expressways' where sidewalks are required along "frontage roads."

In addition, Subsection C of 404.410 has an "exterior sidewalk" provision that states:

- Exterior sidewalks are those sidewalks along collector or higher roads that are adjacent to a subdivision and not an integral part of the subdivision. These streets do require sidewalks on both sides of the street. This can sometimes be an unreasonable burden to place on a developer when the County road does not easily accommodate the addition of sidewalks on the developer's side.
- Instead of requiring a developer to construct exterior sidewalks, all developers will pay to the City of Battlefield the estimated cost of the exterior sidewalks, in such amounts as approved by the City Engineer based on current anticipated construction costs, if they are platting a subdivision that is adjacent to a collector or higher status road.
- The funds will be held by the City of Battlefield to be used for sidewalk installation when the collector or higher status road is brought into compliance with the City of Battlefield design standards for public improvements. If the road improvement is not scheduled within five (5) years of the collection of funds, the City of Battlefield may, if a high priority need for sidewalks is found, spend the funds for sidewalk improvements at such an alternate site. A high priority need could include such things as sidewalks around a new school, park or community facility or other pedestrian system needs as identified by the City of Battlefield Comprehensive Plan

Issue: Is MoDOT, the City, or the developer responsible for building sidewalks, along Route FF? Can the City require the developer to pay to the City of Battlefield the estimated cost of the exterior sidewalks? Further, what about more significant improvements such as bike paths and/or multi-use paths? Of these three parties, who will be responsible for constructing these?

Recommendation: The City should consider the "exterior sidewalk" code provision as it applies to Route FF. Alternatives may include language in the Subdivision that clarify

who is responsible for sidewalks, how multi-use and/or bike paths are viewed differently, and whether the developer can make an equivalent payment for a "sidewalk" along Route FF, with these funds being further supplemented by MoDOT or the City in order to install a bike path or multi-use path.

Another option would be to adopt a corridor overlay plan specifically for Route FF. It can detail how sidewalks, bike lanes, multi-use paths and other corridor improvements are to be handled.

ENGAGEMENT



OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION



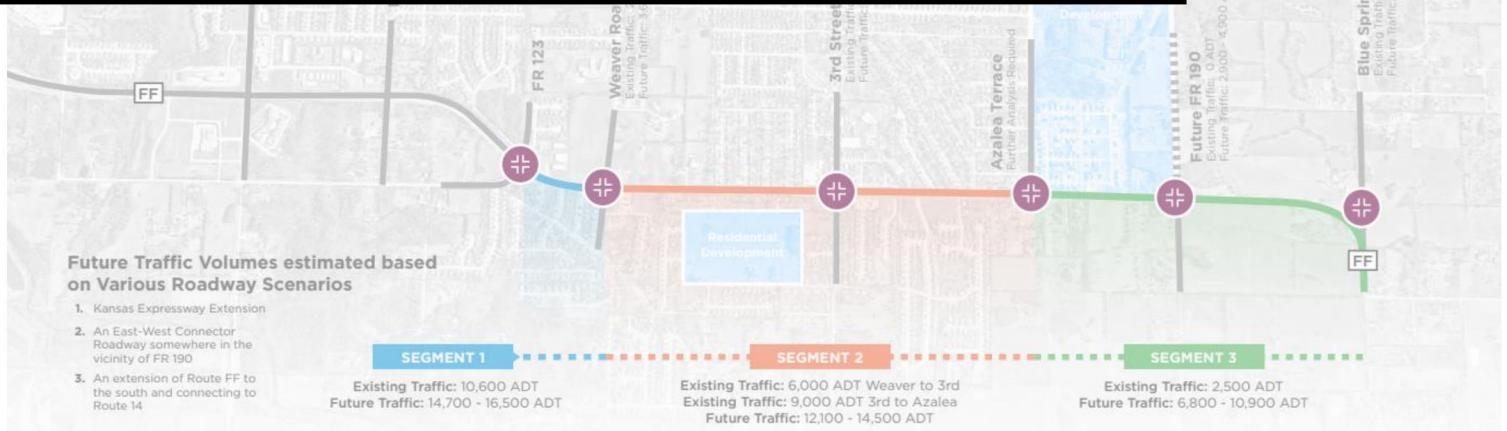
Report for Battlefield, MO

ROUTE FF CORRIDOR STUDY

Appendix

ROUTE FF CORRIDOR STUDY

Core Team Meeting # 4
September 14, 2022



Traffic Volumes & Lane Thresholds

Average Daily Traffic	Number of Lanes	Segment 1	Segment 2	Segment 3
0 - 16,000	3 Lanes	●	●	●
16,000 - 25,000	3-5 Lanes (Requires Additional Study)	●	●	●
25,000+	5 Lanes	●	●	●

INTERSECTION ANALYSIS



OSARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION

Agenda

1. Review public input
 - Survey
 - Comment cards
 - Public meeting
2. Battlefield Comprehensive Plan (2021) transportation planning items to consider
3. Policy & regulations
 - Current Battlefield subdivision regulations
 - Needs/updates to existing regulations
 - Potential policies to consider to achieve desired cross section & environment on Route FF corridor
4. Immediate Project Opportunities



Public Input - Survey



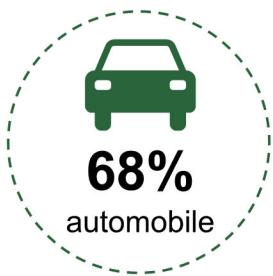
- Dates Available: 8/2 – 8/16
- 59 responses
- Age demographics:
 - 41% (65 – 74)
 - 32% (35 – 54)
- 80% live in Battlefield & regularly use Rt. FF



Public Input - Survey

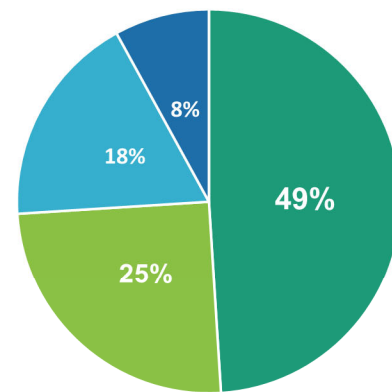


Mode of travel



*motorcycle

How Often Do You Use the Rt. FF Corridor?



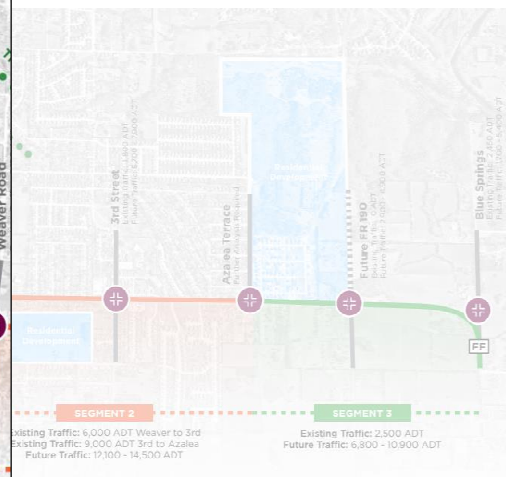
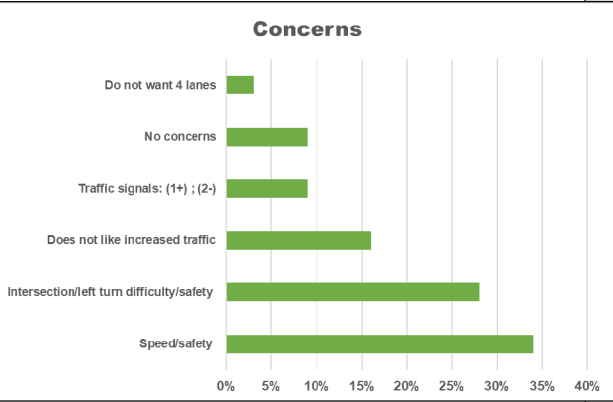
Frequency of Use

Public Input - Survey

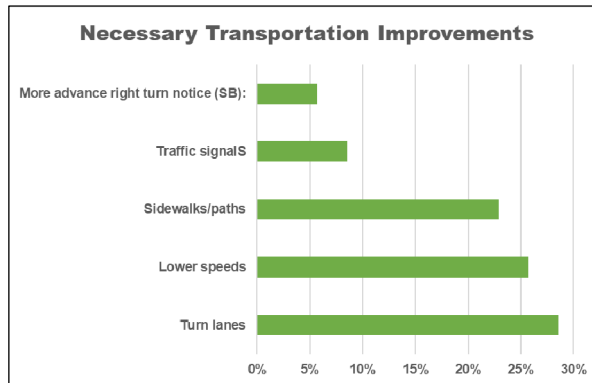
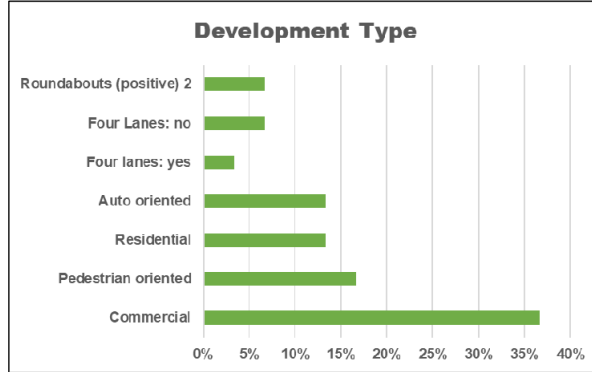
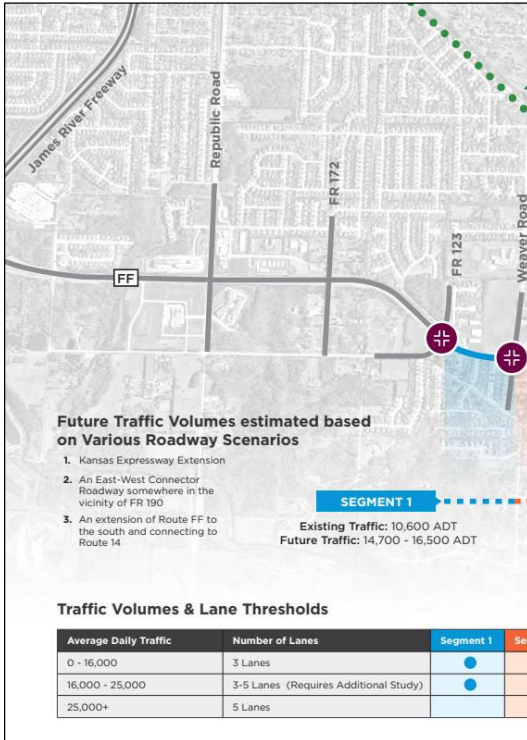
Why do you use the Route FF Corridor?



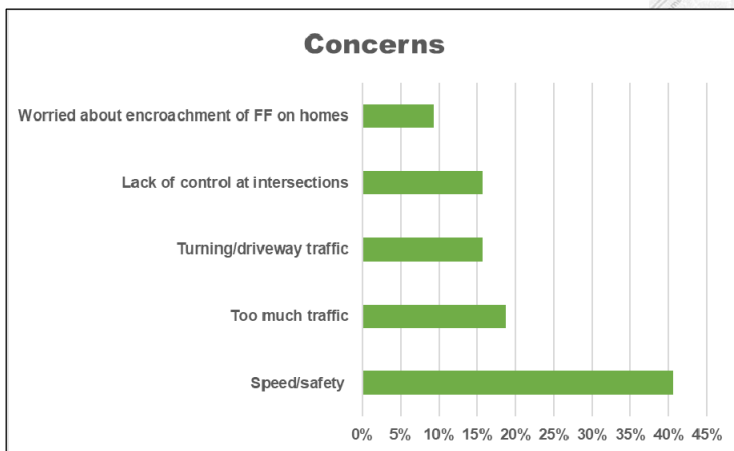
Public Input - Survey – Segment 1



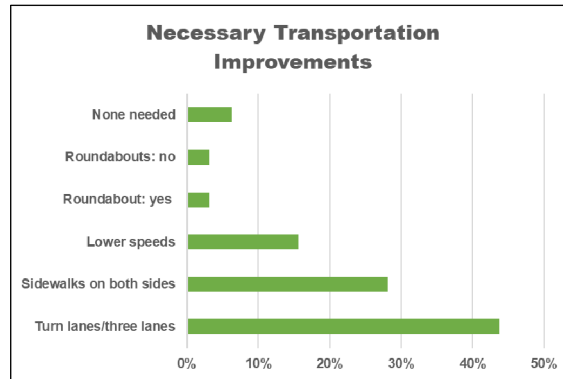
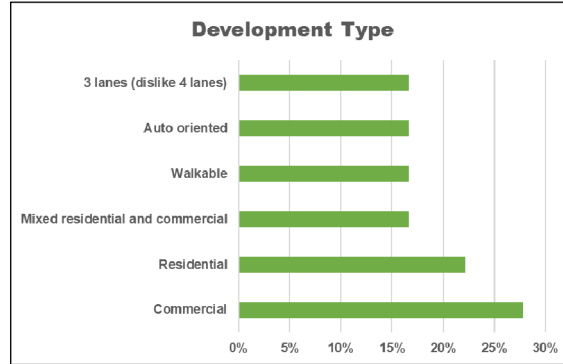
Public Input - Survey – Segment 1



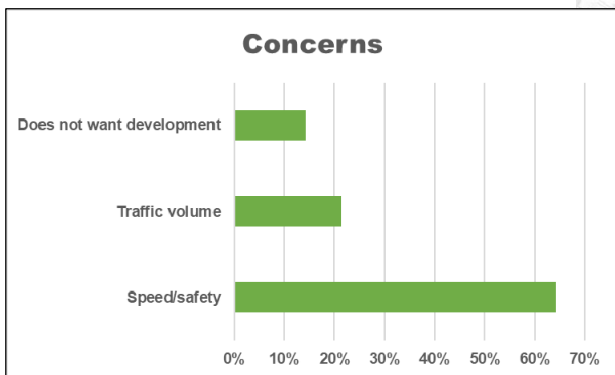
Public Input – Segment 2



Public Input – Segment 2



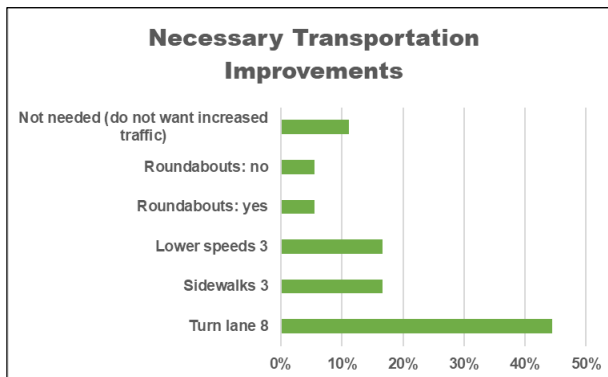
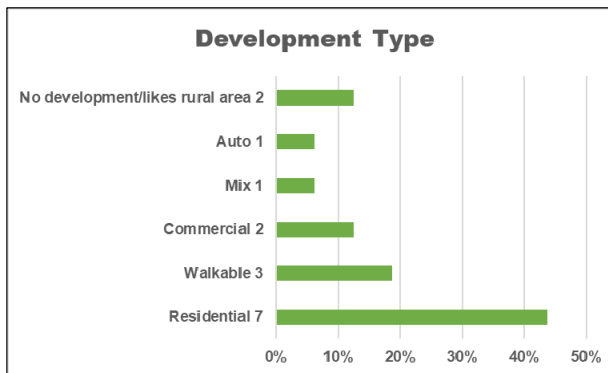
Public Input – Segment 3



Traffic Volumes & Lane Thresholds

Average Daily Traffic	Number of Lanes	Segment 1	Segment 3	Segment 3
0 - 16,000	3 Lanes	●	●	●
16,000 - 25,000	3-5 Lanes (Requires Additional Study)	●	●	●
25,000+	5 Lanes	●	●	●

Public Input – Segment 3



Public Input – Comment Cards

- **5 comment cards**
- Concern over how roundabouts impact emergency response times
- What is focus of potential roadway expansion (industry or population growth?)
- Who is paying for the project?
- Desire to keep residential
- Would like to see sidewalks and bike lanes along Rt. FF
- Slow traffic in what may be future Downtown area of Battlefield
- Need traffic control (signal or roundabout) at Farm Road 172 and Rt. FF
- Slow down traffic



Public Input – Public Meeting

- Board comments
 - Access to FF south of Weaver is problem in AM
 - Safety concerns at Weaver
 - Segment 1
 - SUP maintenance? Who does it?
 - Hard to cross FF
 - Intersection improvement at Weaver needed
 - Extend sidewalk to Republic Road
 - Advance notice of right turn needed
 - Segment 2
 - Roundabout at Weaver is a good idea
 - 3 lanes + right turn lanes
 - Lower speeds
 - Love to see Downtown area developed
 - Bike friendly
 - Create destinations
 - Segment 3
 - Don't want developed
 - Stay farmland



86 attendees



Public Input – Public Meeting

Route FF Major Intersection Concepts

	Roundabout	Signalized	Stop Controlled	Limited Access (Right-of-Way)	No Improvement
Weaver Road	●	●	●	●	●
3rd Street	●	●	●	●	●
Azalea Terrace	●	●	●	●	●
Farm Road 190	●	●	●	●	●
Blue Springs	●	●	●	●	●

- **Roundabout**
 - Weaver, 3rd
- **Signalized**
 - Weaver, 3rd, Farm Road 190
- **No improvement**
 - Azalea Terrace

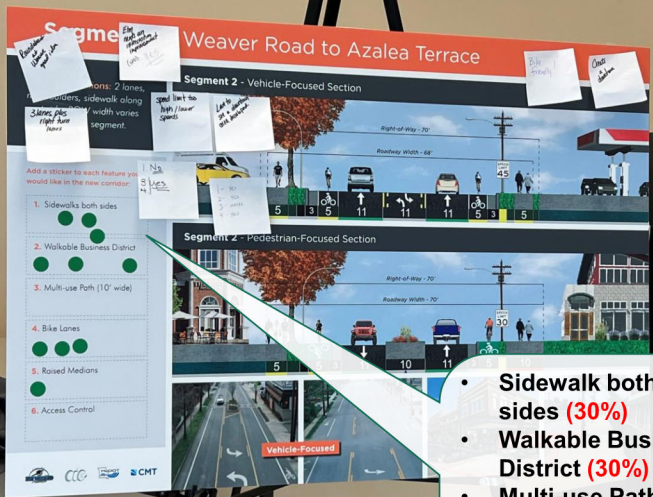
Segment 1 - FR 123 to Weaver Road

Conditions: 3-lane section with and gutter, center left turn lane, 5' sidewalk on east side, ROW width varies -180' to 70'.

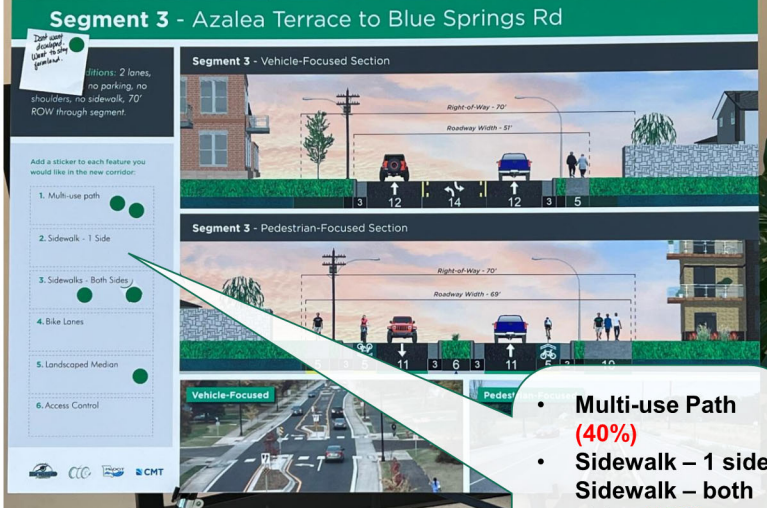
1. Multi-use path
 2. Sidewalks both sides
 3. Landscaped median
 4. Access Control

- **Multi-use Path**
- **Sidewalk – both sides (100%)**
- **Landscaped Medians Access Control**

Public Input – Public Meeting



- Sidewalk both sides (30%)
- Walkable Business District (30%)
- Multi-use Path - 10'
- Bike Lanes (30%)
- Raised Medians (10%)
- Access Control



- Multi-use Path (40%)
- Sidewalk – 1 side
- Sidewalk – both sides (40%)
- Bike Lanes
- Landscaped Medians (20%)
- Access Control

Public Input – Public Meeting

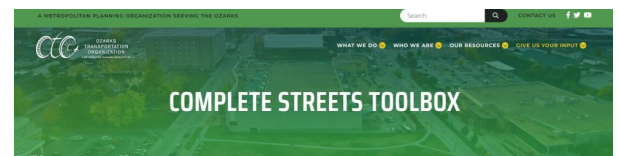


General Consensus

- Maintain residential character of city
- Slower speeds on Route FF
- Limited ROW expansion
- Safety Concerns
 - Intersections
 - Pedestrians/Non-motorized traffic
 - Traffic growth
- Added Turn Lanes/3-lane section

Comp. Plan – Transportation

- Trail connections to surrounding communities would be beneficial to Battlefield residents (economic activity & health benefits)
- Poor sidewalk connectivity, but where sidewalks do exist in great conditions
- **Goal 1 – Improve Local Traffic flow**
 - Objective 1 – identify intersections for improvement (safety and efficiency issues)
 - Objective 2 – maximize carrying capacity of roadways & provide proper facilities for people walking and biking
 - City should adopt OTO Complete Streets Design Standards
 - Identify Complete Streets projects



What is a Complete Street?

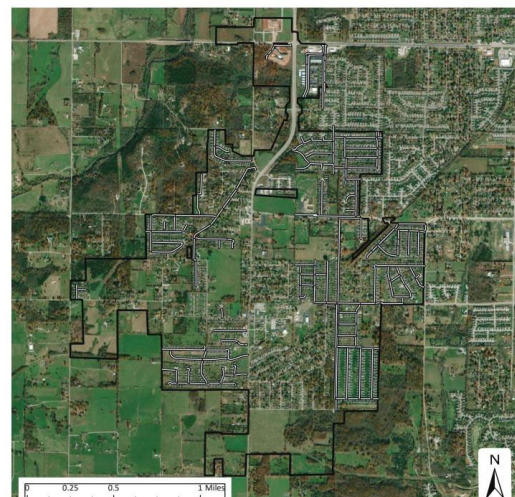
A Complete Street is designed with every user in mind, whether a pedestrian, bicyclist, motorist, or user of public transportation, of any age. A Complete Street ensures the entire right-of-way enables safe access for all users. No two Complete Streets will look the same. The inclusion and placement elements such as crosswalks, bike lanes, bus lanes, curbless medians, or curb extensions depends upon the surrounding land use and users' needs.

[Smart Growth America has an extensive library of materials relating to the implementation of Complete Streets.](#)

Complete Streets in the Ozarks

Comp. Plan – Transportation

- **Goal 2 – Provide Alternative Modes of Transportation**
 - Objective 1 – ADA compliant sidewalks
 - Objective 2 – trail connections
 - Objective 4 – neighborhood block level pedestrian connections
 - Require developers to incorporate block-level connections in preliminary plans
 - Objective 5 – identify opportunities for on-street bicycle facilities & incorporate in future road work
- **Goal 3 – Farm Road 190 extension**
 - Objective 1 – improvements at Rt. FF (Rt. FF study)
 - Objective 2 – highest priorities included in Capital Improvement Plan



BATTLEFIELD SIDEWALKS

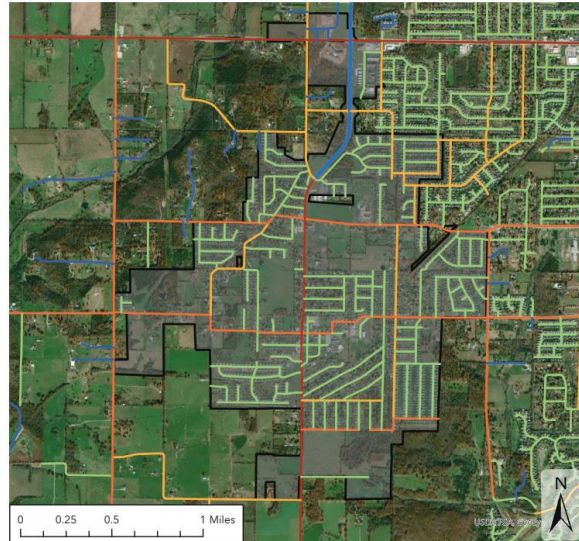
- Battlefield City Limits
- ▬ Sidewalks

Prepared 10/12/2020 by the

Comp. Plan – Transportation

• Goal 4 – Plan for Future Transportation System

- Objective 1 – prioritize projects in City of Battlefield & update OTO annually
- Objective 2 – Develop capital improvement plan to include transportation projects
- Objective 3 – Maintain LPA
- Objective 4 – Continued partnership opportunities



Battlefield Subdivision Regulations

- Encourage review of roadway Design Standards on record with Battlefield City Clerk (verification they are in keeping with roads that connect or will connect to Route FF) – Subdivision Regs 405.510
- Battlefield 2021 Comp Plan includes map showing existing collector and arterial streets, but does not identify future potential collector or arterials. This is important since Section 405.400 states “The classification, extent and location of all streets shall conform to the Battlefield Comprehensive Plan and the major street plan. Where not shown, the arrangement and design standards of streets shall conform to the provisions herein.” It is recommended that these standards be reviewed to confirm they are consistent with how the City would like these future roads to connect to Route FF.

Battlefield Subdivision Regulations



- Battlefield has a provision relating to “exterior sidewalks” in Section 405.410 that states “Exterior sidewalks are those sidewalks along collector or higher roads that are adjacent to a subdivision and not an integral part of the subdivision. These streets do require sidewalks on both sides of the street...(as t)his can sometimes be an unreasonable burden...on a developer when the County road does not easily accommodate the addition of sidewalks on the developer's side.”
- Instead of requiring a developer to construct exterior sidewalks, developers pay to the City of Battlefield the estimated cost of the exterior sidewalks, in such amounts as approved by the City Engineer based on current anticipated construction costs, if they are platting a subdivision that is adjacent to a collector or higher status road.
- While this policy is likely very effective in many cases, it is suggested that it be evaluated in relation to Route FF and existing and future roadways that will connect to this improved corridor.

Project Opportunities/Scope



Updated Roadway Classification

- Existing
 - Minor Arterial (FR 123 to Weaver)
 - Major Collector (Weaver to Blue Springs)
- Proposed?

Speed Limit and traffic calming tools

- Signage/enforcement
- Narrowed lanes (raised medians)
- Intersection control

Roadway Cross Section Improvements

- 3-lane with TWLTL
- Additional sidewalks/multi-use

Key Corridor Intersections

- Weaver
- 3rd Street
- Azalea
- FR 190
- Blue Springs

Regulatory recommendations

- Access management
- Zoning districts
- Subdivision



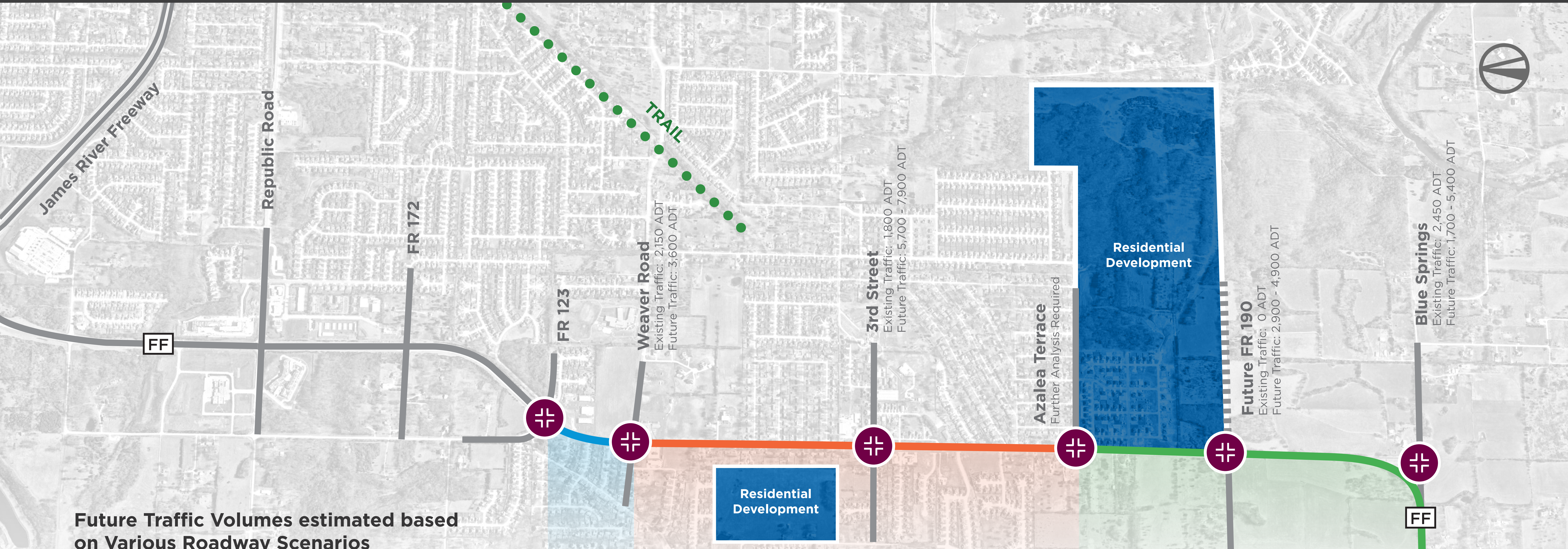
Next Steps



- Compile Draft Corridor Study**
Present to CORE Team (Early October)
- Corridor Study Revisions**
- Final Public Meeting**
Mid-Late October
- Final Corridor Study Report**
Mid-Late November



Route FF Corridor Study



Traffic Volumes & Lane Thresholds

Average Daily Traffic	Number of Lanes	Segment 1	Segment 2	Segment 3
0 - 16,000	3 Lanes	●	●	●
16,000 - 25,000	3-5 Lanes (Requires Additional Study)	●		
25,000+	5 Lanes			

 **INTERSECTION ANALYSIS**



Route FF Major Intersection Concepts

Major Intersections	Roundabout	Signalized	Stop Controlled	Limited Access (Right-in, Right-Out)	No Improvement
FR 123			●	●	●
Weaver Road	●	●			
3rd Street	●	●			
Azalea Terrace	●		●		●
Farm Road 190	●	●			
Blue Springs			●		●

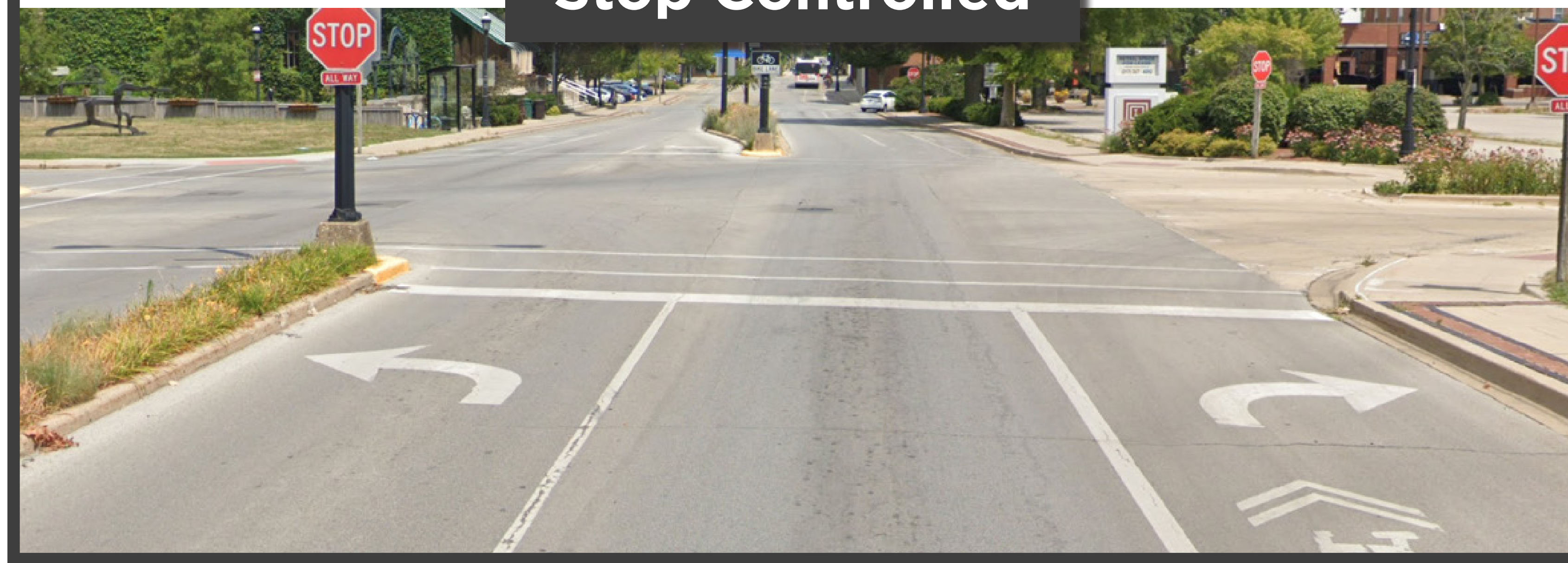
Note : Further analysis of the intersections will be required to determine what the most effective intersection type would be at each intersection.



Stop Controlled



Roundabout



Signalized



Segment 1 - FR 123 to Weaver Road

Existing Conditions: 3-lane section, curb and gutter, center left turn lane, 5' sidewalk on east side, ROW width varies ~180' to 70'.

Add a sticker to each feature you would like in the new corridor:

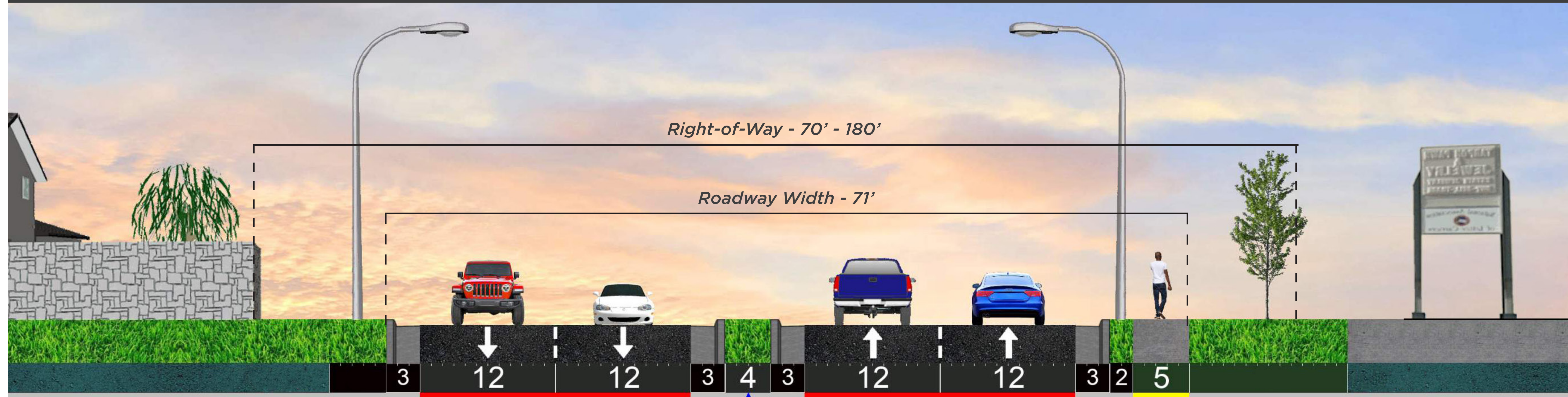
1. Multi-use path

2. Sidewalks both sides

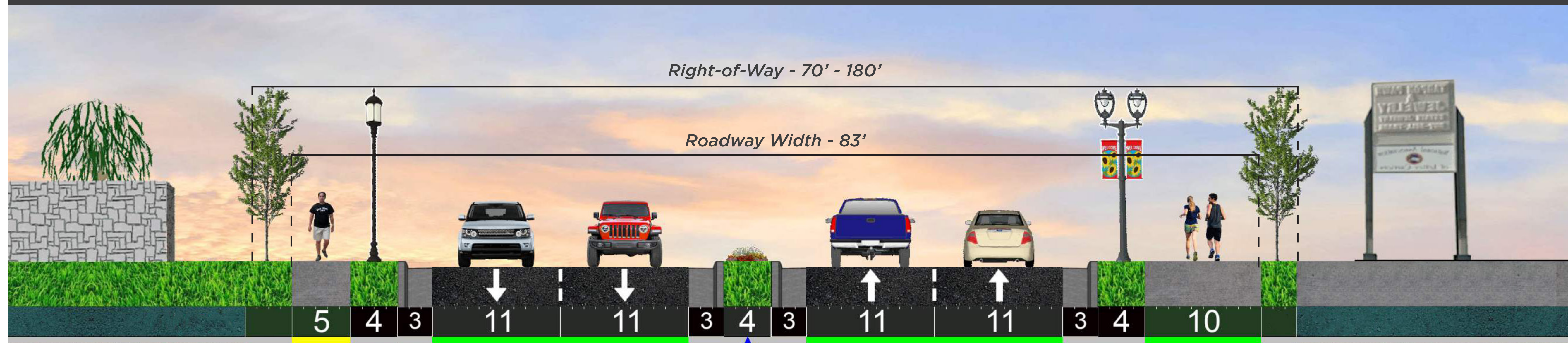
3. Landscaped median

4. Access Control

Segment 1 - Vehicle-Focused Section



Segment 1 - Pedestrian-Focused Section



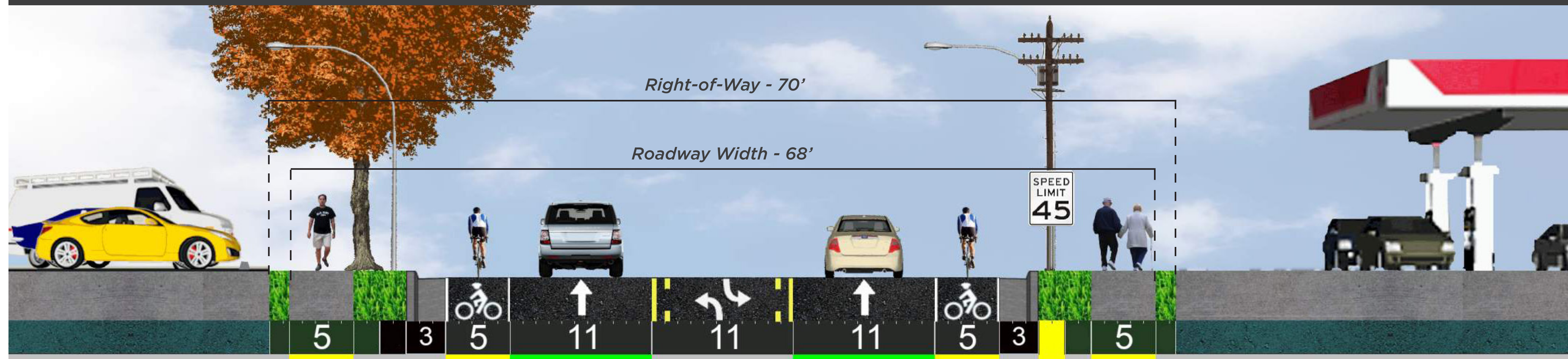
Segment 2 - Weaver Road to Azalea Terrace

Existing Conditions: 2 lanes, no shoulders, sidewalk along east side, ROW width varies 70-80' through segment.

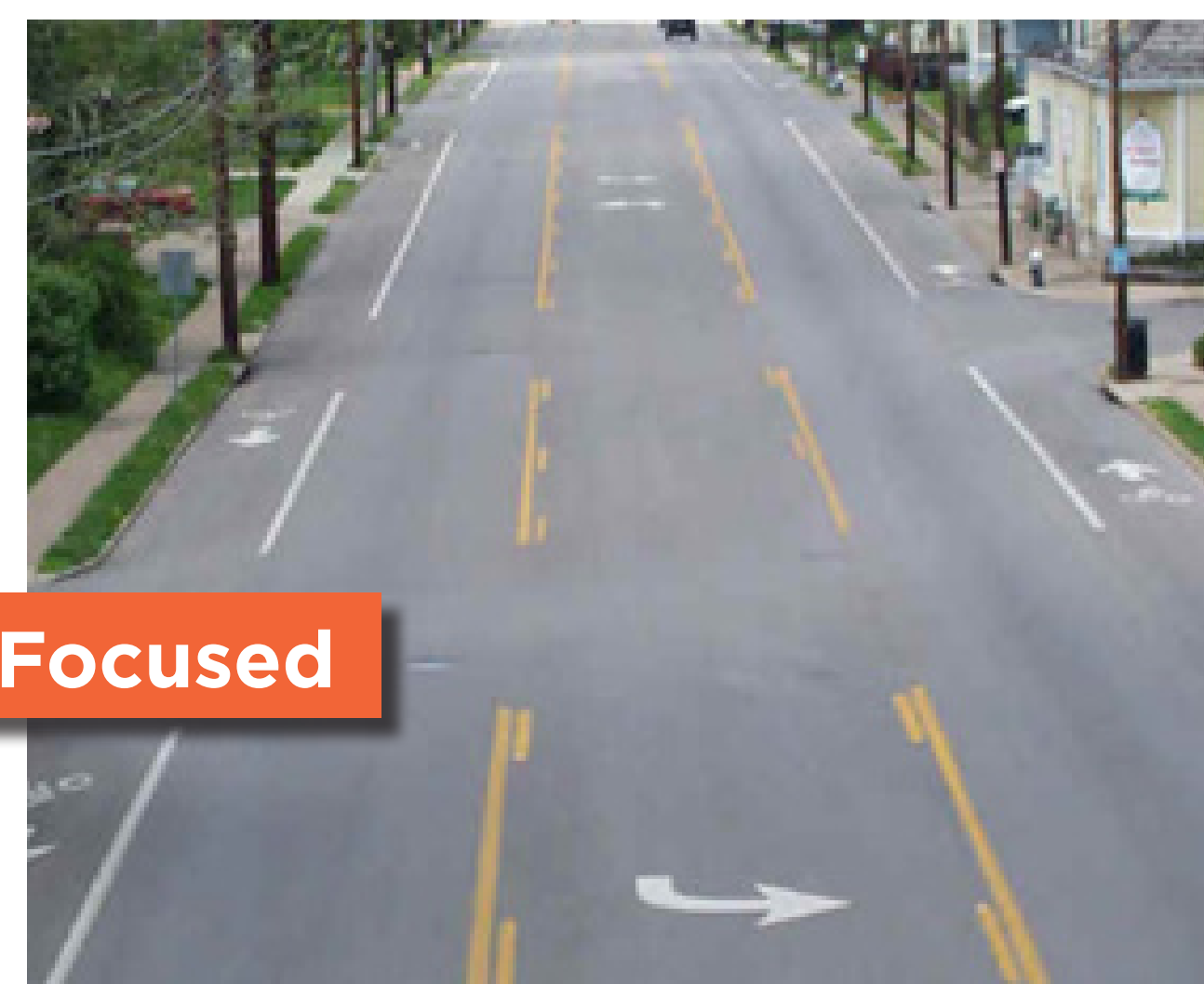
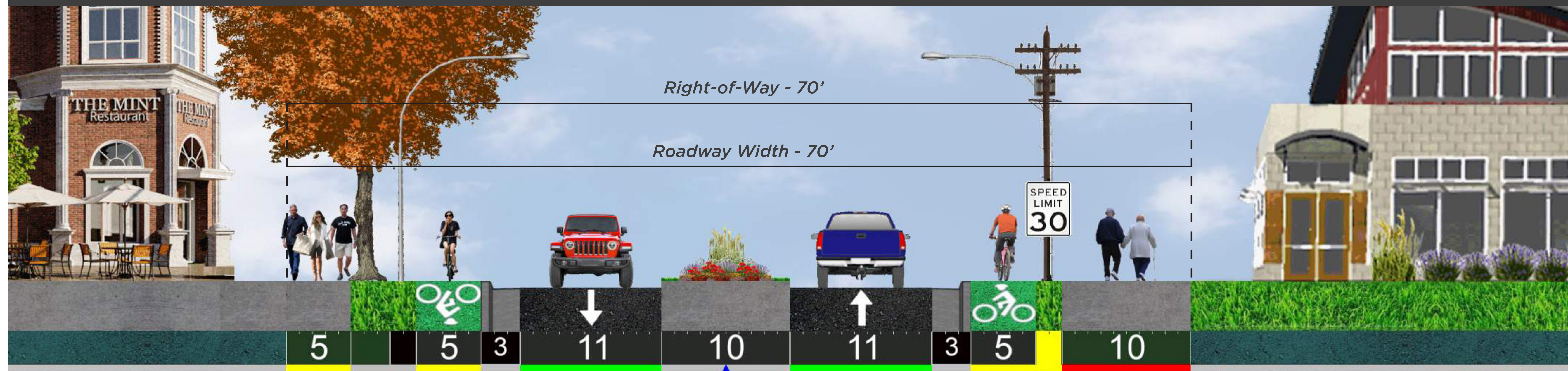
Add a sticker to each feature you would like in the new corridor:

1. Sidewalks both sides
2. Walkable Business District
3. Multi-use Path (10' wide)
4. Bike Lanes
5. Raised Medians
6. Access Control

Segment 2 - Vehicle-Focused Section



Segment 2 - Pedestrian-Focused Section



Vehicle-Focused



Pedestrian-Focused

Segment 3 - Azalea Terrace to Blue Springs Rd

Existing Conditions: 2 lanes, open ditches, no parking, no shoulders, no sidewalk, 70' ROW through segment.

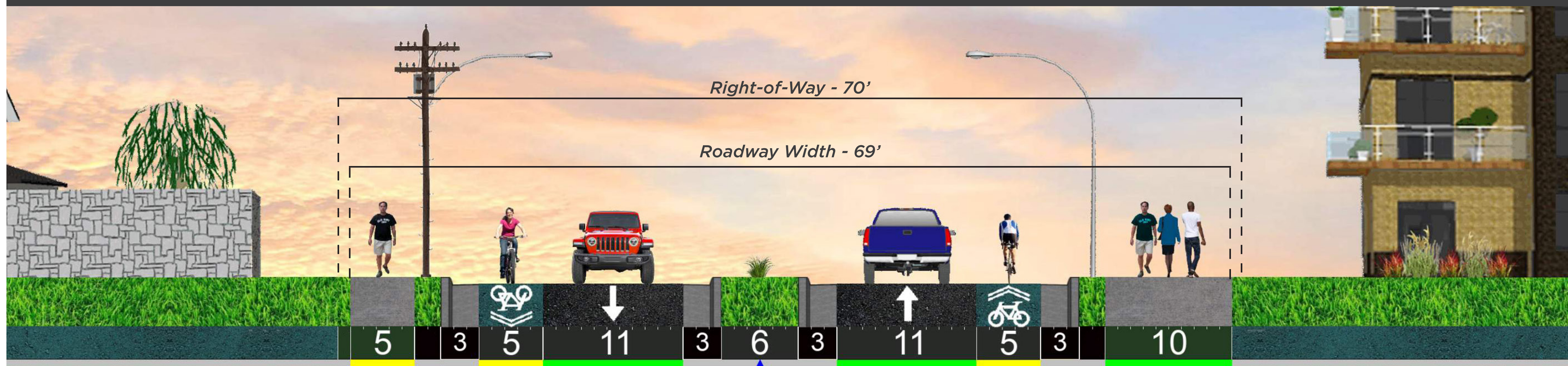
Add a sticker to each feature you would like in the new corridor:

1. Multi-use path
2. Sidewalk - 1 Side
3. Sidewalks - Both Sides
4. Bike Lanes
5. Landscaped Median
6. Access Control

Segment 3 - Vehicle-Focused Section



Segment 3 - Pedestrian-Focused Section





OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION

Route FF Corridor Study
Community Open House

08/02/2022
4:30 - 6:30pm

SIGN IN SHEET

NAME (PLEASE PRINT)	PHONE	EMAIL
<i>[Signature]</i>	417-839-3904	N/A
Richard + Barbara Stokes	417-881-3863	—
FRANK NORTON	417-861-1038	
Patricia Rogers	417-840-4555	
Robert W. Whitehead	417-883-8146	
Patricia Webb	(417)234-4605	pwebbprp85@gmail.com
Owen Wilkie	417-849-3561	owenwilkie45@gmail.com
Gene & Julie Perryman	417-838-9734	
Dean & Jan Runk	417-764-1990	dejarund@distmaills.com
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Philip Gulpin	417-880-3931	p-gulpin@msn.com
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Over >

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OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION

Route FF Corridor Study
Community Open House

08/02/2022

4:30 - 6:30pm

SIGN IN SHEET

NAME (PLEASE PRINT)	PHONE	EMAIL
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Bradley Schu Baker	417 920-7290	Sjbaker1@yahoo.com
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Over >

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Debbie Hicky

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Mark & Cindi Crabtree (417) 224-2437 mark@crabtree91.us

Amy Ricke 913-548-7328 abisharda@gmail.com

Blank lined area for additional entries.

Rt. FF Survey - Dashboard

65

Viewed

59

Total Responses

50

Completed

84.75%

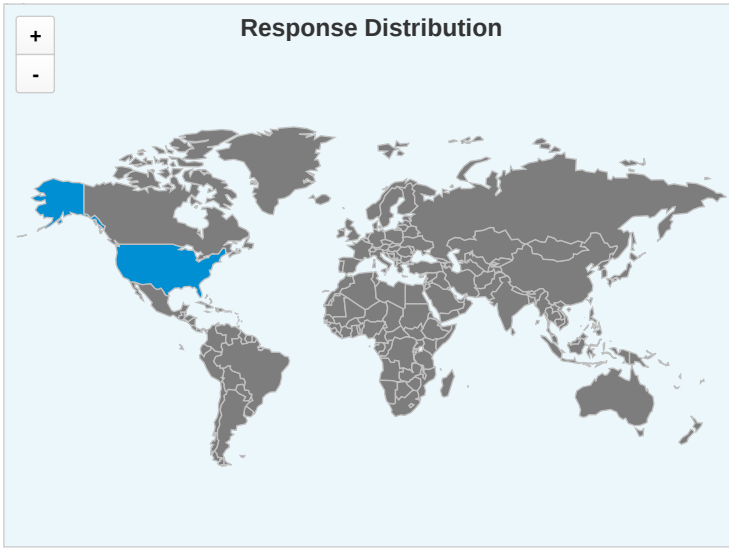
Completion Rate

9

Dropouts

4 min

Average Time



Countries	Responses
US	100.00%
Total	100.00%

Please provide some basic information about yourself. Contact Information

08/08/2022 58276546 David
Byrd*
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davidbyrd@missouristate.edu
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08/07/2022 58270393 Jack
White
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65714

08/07/2022 58269264 Gene
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08/05/2022 58264269 Matt
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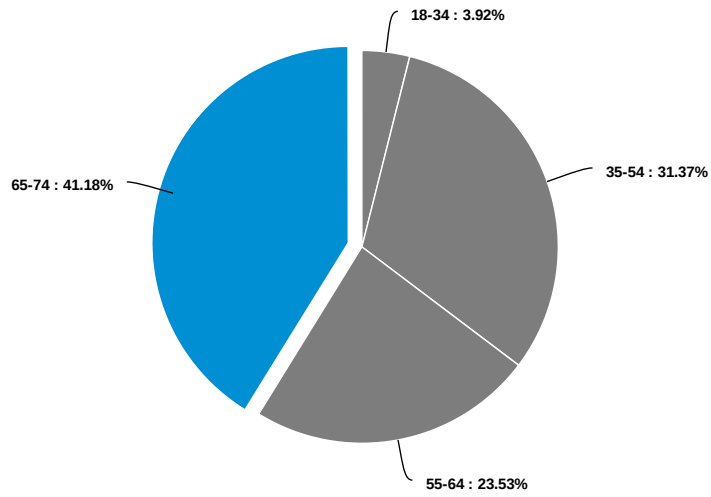
08/03/2022 58235684 Andrew
Novinger*
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08/03/2022 58235573 Darlene
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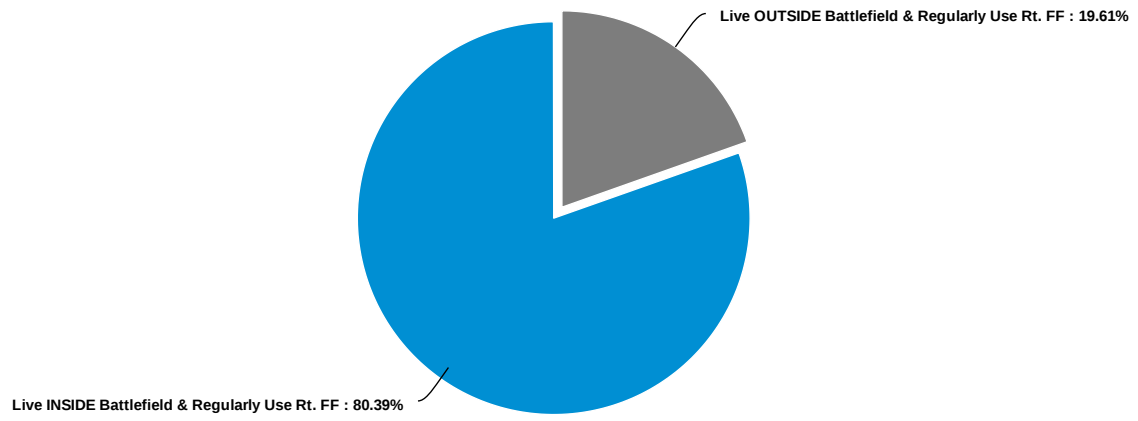
08/03/2022	58235543	Shane Anderson* 417-489-4554 f_14@hotmail.com 65619
08/03/2022	58235522	Mark & Cindy Crabtree* 417-224-2437 mark@crabtree91.us 65619
08/03/2022	58235487	Mark Mais* 417-429-7077 mclmmais@gmail.com 65619
08/03/2022	58235471	Karen Tate* 417-559-5824 love-my-kids-2@hotmail.com 65619
08/03/2022	58235319	Tony Vaughn* 573-703-2794 TLVaughn1@hotmail.com 65739
08/03/2022	58235281	Chanin Ropka* 417-425-1501 cropka@parkcrestdental.com 65619
08/03/2022	58235264	Karen Groves* 417-818-3234 karobgroves@sbcglobal.net 65619
08/03/2022	58235245	Robert W Groves* 417-379-5858 karobgraves@sbcglobal.net 65619
08/03/2022	58235229	Theron Guiltner* 417-343-3148 theronguiltner@hotmail.com 65619
08/03/2022	58235173	Scott Moore* 417-881-9018 smoore@battlefieldfire.com 65619
08/03/2022	58235124	Rocky Compton* 417-576-2556 rcompton2557@gmail.com 65619
08/03/2022	58234055	Terri OReilly 417-839-8006 Terrioreilly198@gmail.com 65619-8279
08/02/2022	58231230	Heidi Fisher 417-576-1013 twosashquilts@sbcglobal.net 65619

How Old Are You?



Answer	Count	Percent	20%	40%	60%	80%	100%
Under 18	0	0%					
18-34	2	3.92%					
35-54	16	31.37%					
55-64	12	23.53%					
65-74	21	41.18%					
75+	0	0%					
Total	51	100 %					

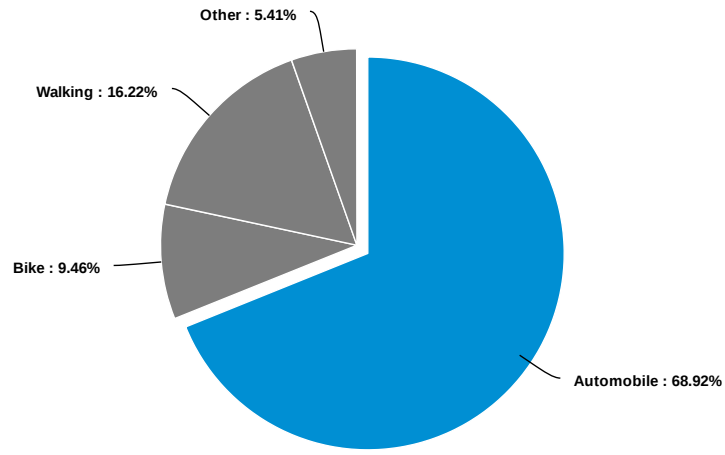
Please help us understand how you use the Route FF Corridor. Which Statement Best Describes You?



Answer	Count	Percent	20%	40%	60%	80%	100%
Live OUTSIDE Battlefield & Regularly Use Rt. FF	10	19.61%					
Live INSIDE Battlefield & Regularly Use Rt. FF	41	80.39%					
Live inside Battlefield & AVOID Using Rt. FF	0	0%					
Other	0	0%					
Total	51	100 %					

Please help us understand how you use the Route FF Corridor. Which Statement Best Describes You? - Text Data for Other

What Mode(s) of Transportation Do You Currently Use Along The Rt. FF Corridor? (Select All That Apply)

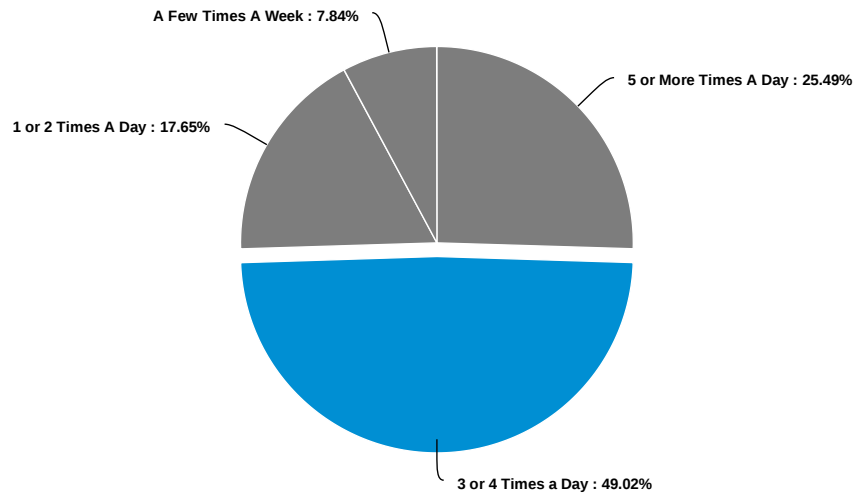


Answer	Count	Percent	20%	40%	60%	80%	100%
Automobile	51	68.92%	<div style="width: 68.92%;"></div>				
Bike	7	9.46%	<div style="width: 9.46%;"></div>				
Walking	12	16.22%	<div style="width: 16.22%;"></div>				
Other	4	5.41%	<div style="width: 5.41%;"></div>				
Total	74	100 %					

What Mode(s) of Transportation Do You Currently Use Along The Rt. FF Corridor? (Select All That Apply) - Text Data for Other

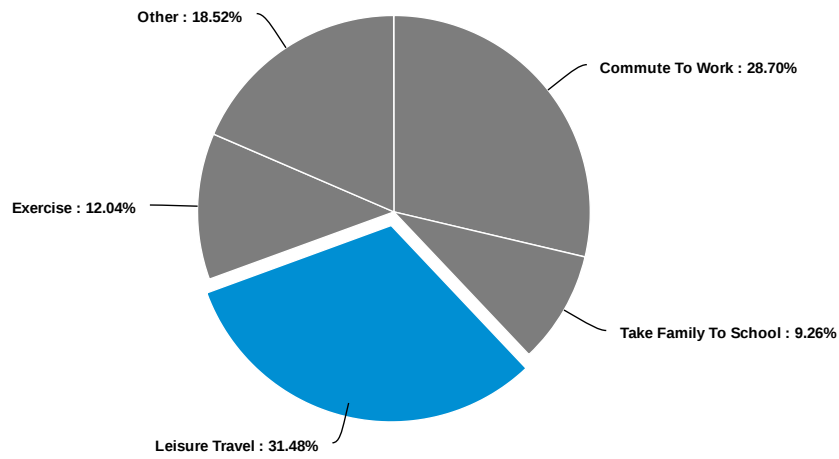
08/03/2022 58236846 motorcycle

How Often Do You Use the Rt. FF Corridor?



Answer	Count	Percent	20%	40%	60%	80%	100%
5 or More Times A Day	13	25.49%	████████████████████				
3 or 4 Times a Day	25	49.02%	██				
1 or 2 Times A Day	9	17.65%	████████████████				
A Few Times A Week	4	7.84%	████				
Total	51	100 %					

Why Do You Use The Rt. FF Corridor? (Select All That Apply)



Answer	Count	Percent	20%	40%	60%	80%	100%
Commute To Work	31	28.7%	<div style="width: 28.7%;"></div>				
Take Family To School	10	9.26%	<div style="width: 9.26%;"></div>				
Leisure Travel	34	31.48%	<div style="width: 31.48%;"></div>				
Exercise	13	12.04%	<div style="width: 12.04%;"></div>				
Other	20	18.52%	<div style="width: 18.52%;"></div>				
Total	108	100 %					

Why Do You Use The Rt. FF Corridor? (Select All That Apply) - Text Data for Other

08/07/2022	58269264	Shop, Restaurants, Go out of town
08/05/2022	58264269	Travel to Businesses
08/05/2022	58262805	Live on the east side of FF
08/03/2022	58241038	Major road to get to shopping, eating and visiting friends.
08/03/2022	58237280	shopping
08/03/2022	58237264	Live off of FF
08/03/2022	58237111	Doctor appts
08/03/2022	58236944	church
08/03/2022	58236846	required travel
08/03/2022	58236534	personal business
08/03/2022	58236159	Shop & Dining
08/03/2022	58235951	church, shopping, errands
08/03/2022	58235876	Live right off Hwy FF
08/03/2022	58235319	Stores
08/02/2022	58231230	Shopping



Route FF - Farm Rd. 123 to Weaver Rd. Please answer the following three questions about the segment of Rt. FF between Farm Rd. 123 and Weaver Rd. 1. What Concerns Do You Have About This Segment? (Ex. - Speed, Safety, Specific Intersections)

08/08/2022 58276546 None

08/07/2022 58269264 There is a lot of traffic in this area. It is difficult to get onto FF from Weaver.

08/05/2022 58263049 Taking my HOME away I just bought it back in Sept of 2020. I will be on the street .Im cripple you dont care

08/05/2022 58262805 No concerns

08/03/2022 58237069 Traffic entering Battlefield & the right turn lane. Living on Mary Street you about get run over trying to exit FF.

08/03/2022 58237047 Cars merging from 2 to 1 lanes, traffic back up.

08/03/2022 58237034 Not interested in traffic signals

08/03/2022 58236944 No 4 Lanes ANYwhere

08/03/2022 58236801 All of the above concerns

08/03/2022 58236534 Speed - cars not slowing down into town.

08/03/2022 58236464 Speed, safety

08/03/2022 58236054 Widen all corner for ease if turning, fire truck access

08/03/2022 58235990 Keep Battlefield a small town. 4 way stop at Weaver & FF. Reduce speed coming in from Republic Road to the current 45 speed limit to 30-35

08/03/2022 58235897 We need a stoplight at Weaver & FF. Stop the residential building permits and you won't need more traffic control. This is a small community and we want it to stay that way. Bussell Building should not be able to congest our nice town with houses. Take a vote on if we want more residential subdivisions. That will take care of the traffic issue.

08/03/2022 58235847 Safety at the intersection of FF & Weaver

08/03/2022 58235810 Safety at FF & Eaglecrest, needs to reduce speed prior to intersection/signal

08/03/2022 58235784 Speed, volume

08/03/2022 58235755 Speed

08/03/2022 58235573 Increased traffic & speeding

08/03/2022 58235543 Traffic speed

08/03/2022 58235487 Need longer SB left turn lane

08/03/2022 58235281 Difficult left turns north onto Weaver. Some issues with right turn off Weaver south during rush hours.

08/03/2022 58235173 Speed and vehicles entering & exiting the side streets.

08/03/2022 58235124 Safety

08/03/2022 58234055 Speed, difficulty to cross or make a left turn, school children who must cross to go to and from school

08/02/2022 58231230 None

2. What Type Of Development Makes Sense Along This Segment? (Ex. - Residential or Commercial; Walkable vs Auto-Oriented)

08/08/2022 58276546 Commercial, Auto

08/07/2022 58269264 Commercial. Walkable.

08/05/2022 58263049 none

08/05/2022 58262805 Commercial as this is what is there now

08/03/2022 58237069 Commercial & Residential

08/03/2022 58237047 Commercial

08/03/2022	58237034	Pedestrian & no traffic lights
08/03/2022	58236944	No 4 Lanes ANYwhere
08/03/2022	58236846	Intersection at FF and 123 (?) (at the wireroad brewery) - increased traffic
08/03/2022	58236801	Prefer residential, both auto and walkable
08/03/2022	58236534	Walkable, sidewalks both side of street
08/03/2022	58236159	3 lanes with right turn lane and center turn
08/03/2022	58236054	Commercial
08/03/2022	58235847	Residential
08/03/2022	58235810	Residential, light commercial, low noise, traffic
08/03/2022	58235784	Commercial
08/03/2022	58235755	More commercial
08/03/2022	58235573	4 lanes
08/03/2022	58235543	Commercial
08/03/2022	58235281	Auto - roundabout would work!
08/03/2022	58235264	Roundabouts
08/03/2022	58235173	Commercial
08/03/2022	58234055	Commercial development makes the most sense but it needs to be bike and pedestrian friendly. Rogers, Bentonville and Fayetteville Arkansas have wonderful bike trails that have dedicated crossings with lights.
08/02/2022	58231230	Auto oriented
3. What Kind Of Transportation Improvements Are Needed Along This Segment? (Ex. - Lower Speeds, More Sidewalks, On-Street Parking, Turn Lanes, Medians, Trails)		
08/08/2022	58276546	Southbound - move sign indicating right lane must turn right farther to north to give more time for drivers to adjust.
08/07/2022	58269264	Stop controlled at FR 123. Signal at Weaver. Sidewalks both sides. Turn lanes.
08/05/2022	58263049	Slow the traffic down cant get my mail safe.
08/05/2022	58262805	Stop light for traffic control
08/03/2022	58237069	Sidewalks, lower speeds, better turn lanes, trails
08/03/2022	58237047	Turn lanes are desperately needed
08/03/2022	58237034	Bike lane & sidewalks
08/03/2022	58236944	No 4 Lanes ANYwhere
08/03/2022	58236801	Definitely lower speeds, no on street parking, you can barely drive down some streets for all the cars parked on the side.
08/03/2022	58236534	Lower speed to 35, medians, trains coming into town, put a "Right Lane Must Turn Right" BEFORE the bend in the road.
08/03/2022	58236054	Turn lanes
08/03/2022	58235847	Lower speeds, turn lanes
08/03/2022	58235810	Lower speeds, sidewalks
08/03/2022	58235784	Lower speeds, turn lane, both sides need sidewalks all the way to Republic Road
08/03/2022	58235755	Lower speeds, turn lanes
08/03/2022	58235573	Sidewalks Turning lanes
08/03/2022	58235543	Traffic lights, median/turn lane


08/03/2022 58235487 Weaver @ Rte FF has always been a problem. Been here for +20 years and seen several bad wrecks.

08/03/2022 58235173 Lanes & lane width*

08/03/2022 58235124 Trails

08/03/2022 58234055 Lower speeds would be great! Sidewalks, bike trails and turn lanes would help as well.

08/02/2022 58231230 None

Route FF - Weaver Rd to Azalea Ter.  Please answer the following three questions about the segment of Rt. FF between Weaver Rd. and Azalea Ter. 1. What Concerns Do You Have About This Segment? (Ex. - Speed, Safety, Specific Intersection)

08/08/2022	58276546	Safety - Residential houses backing onto FF
08/07/2022	58269264	Traffic growth.
08/05/2022	58263049	speed
08/05/2022	58262805	Water drainage on the east side of FF, displacement of the homes along FF,
08/03/2022	58237202	Biggest problem area. Speed, safety, no shoulder, no lights/4 way stops @ gas stations & Elm
08/03/2022	58237047	Speed, traffic backups
08/03/2022	58237034	Better turn lanes at intersections
08/03/2022	58236995	Lots of traffic coming into Battlefield with no turn lane backing up traffic
08/03/2022	58236944	Weaver by Conco needs signal & intersection needs to be redone
08/03/2022	58236906	Signal at Weaver Rd
08/03/2022	58236846	Left turning traffic, drivers backing from driveways
08/03/2022	58236534	Speed - cars not slowing down into town
08/03/2022	58235990	Reduce speed to 30-35, 4 way stop at FF & Elm
08/03/2022	58235784	Speed, volume
08/03/2022	58235755	Speed, intersection by Godfather's. People taking chances crossing FF there.
08/03/2022	58235573	Increased traffic & speeding
08/03/2022	58235543	Traffic speed
08/03/2022	58235487	Road is narrow. Shoulders would improve safety. The numerous driveways entrances are an issue.
08/03/2022	58235173	School traffic Utilities above ground
08/03/2022	58235124	Safety
08/03/2022	58234055	Speed is the main concern. 35 or 40 would be a better speed for this area unless it's widened.
08/02/2022	58231230	Want to keep 2 lanes - it's one of the main reasons we purchased our new home that backs up to Hwy Ff in green ridge estates. The small town country feeling. If I wanted heavy traffic we would have chosen Springfield or republic


2. What Type Of Development Makes Sense Along This Segment? (Ex. - Residential or Commercial; Walkable vs Auto-Oriented)

08/08/2022	58276546	Commercial, Auto
08/07/2022	58269264	Mix of residential and commercial. Walkable.
08/05/2022	58263049	drained ditches my back yard is like a lake. it come from the front yard of my Neighbor 3 3inch pips in his front yard to between the houses water runs through the pips in between the houses & into my back yard.
08/05/2022	58262805	Not sure, we just moved here and like it residential
08/03/2022	58237202	Road widening, traffic signals, center turn lane
08/03/2022	58237047	Commercial, auto-oriented. There are no businesses.
08/03/2022	58236995	Turn lane, stop light at Weaver, NO FOUR LANES
08/03/2022	58236906	3 Lane no 4 lane
08/03/2022	58236846	Left turning lane, curbs and sidewalks (both sides of roadway) Weaver & FF dangerous & going to get worse
08/03/2022	58236534	Walkable, sidewalks both sides of streets

08/03/2022	58236159	3 lanes with right turn lane and center turn
08/03/2022	58236054	Commercial
08/03/2022	58235990	Residential
08/03/2022	58235810	Residential, light commercial, low noise, traffic
08/03/2022	58235784	Residential
08/03/2022	58235755	More commercial
08/03/2022	58235641	Stop light at 3rd. The buses have a hard time turning into resident, traffic-timing is off and hard to get from 3rd to FF. Stoplight @ Wilson Creek School Street - impossible traffic area someone is always pulling out or slamming on brakes at this intersection.
08/03/2022	58235573	Roundabout
08/03/2022	58235543	Commercial
08/03/2022	58235264	Roundabouts
08/03/2022	58235173	Mixed
08/03/2022	58234055	It's already mostly residential.
08/02/2022	58231230	None

3. What Kind Of Transportation Improvements Are Needed Along This Segment? (Ex. - Lower Speeds, More Sidewalks, On-Street Parking, Turn Lanes, Medians, Trails)

08/08/2022	58276546	3 lane road - no median, stoplight at Weaver Rd, stoplight at 3rd Street, 35 mph speed limit, no roundabouts
08/07/2022	58269264	Signal at 3rd St. Roundabout at Azalea Terrace. Five foot sidewalks both sides. Turn lane.
08/05/2022	58262805	None
08/03/2022	58237047	We need turn lanes to reduce traffic back up
08/03/2022	58237034	Bike lane & sidewalks
08/03/2022	58236995	3 Lanes
08/03/2022	58236944	3-lanes
08/03/2022	58236906	Sidewalks both sides
08/03/2022	58236846	Left turn lanes, sidewalks both sides of roadway and curbs plus water control
08/03/2022	58236534	Lower speeds to 35, medians
08/03/2022	58236054	Turn lanes
08/03/2022	58235990	Turn lanes
08/03/2022	58235847	Center turn lane
08/03/2022	58235810	Sidewalks, bike lanes
08/03/2022	58235784	Lower speed, turn lane
08/03/2022	58235755	Lower speeds, turn lanes
08/03/2022	58235641	Sidewalk on 3rd Street. Put storm sewers under yard drain, extend road, there is a huge drop off on both sides North and South. Heavy traffic - buses, heavy trucks, trailers w/mowers no room no way for residents to walk to FF. Apt complex has residents who walk to stores.
08/03/2022	58235543	Traffic lights, median/turn lane
08/03/2022	58235264	Sidewalks on 3rd Street
08/03/2022	58235173	Lanes and access to side roads
08/03/2022	58234055	Sidewalks on both sides of the road, bike trails and turn lanes coupled with lower speed

Route FF - Azalea Ter. to Blue Springs Rd.  Please answer the following three questions about the segment of Rt. FF between Azalea Ter. and Blue Springs Rd. 1. What Concerns Do You Have About This Segment? (Ex. - Speed, Safety, Specific Intersection)

- 08/08/2022 58276546 1. Need FR 190 to east to alleviate excessive traffic on FR 194 (Blue Springs Road) 2. Need to move stop sign on FR 194 going west on FF to the east so that drivers can still see what's coming south on FF
- 08/07/2022 58269264 Traffic growth. Blue Springs is a dangerous intersection.
- 08/05/2022 58262805 End of FF is a little awkward intersection.
- 08/03/2022 58237047 Speed
- 08/03/2022 58236534 Speed - cars not slowing down into town.
- 08/03/2022 58235990 Reduce speeds to 30-35
- 08/03/2022 58235876 Safety
- 08/03/2022 58235847 Future development of a rural area. Farm land should be left alone, people purposely move to country setting to no be near subdivisions.
- 08/03/2022 58235784 Volume
- 08/03/2022 58235755 Speed
- 08/03/2022 58235730 Speed
- 08/03/2022 58235573 Increased traffic & speeding
- 08/03/2022 58235543 Traffic speed
- 08/03/2022 58234055 Speed is probably ok as long as people are aware of the big turn to the west. That intersection is a bit weird for anyone coming from the east turning north.
- 08/02/2022 58231230 No more development other than green ridge estates

2. What Type Of Development Makes Sense Along This Segment? (Ex. - Residential or Commercial; Walkable vs Auto-Oriented)

- 08/08/2022 58276546 Commercial & Residential, Auto
- 08/07/2022 58269264 Residential. Walkable.
- 08/05/2022 58262805 Residential
- 08/03/2022 58237047 Commercial
- 08/03/2022 58236534 Walkable, sidewalks both side of streets
- 08/03/2022 58236159 3 lanes with right turn lane and center turn
- 08/03/2022 58235990 Residential
- 08/03/2022 58235876 Residential, walkable
- 08/03/2022 58235847 None. Area is rural and doesn't need developed. As well as the abundance of sink holes.
- 08/03/2022 58235810 Residential
- 08/03/2022 58235784 Commercial
- 08/03/2022 58235573 To help disperse traffic from or away from Blue Springs Road
- 08/03/2022 58235543 Residential
- 08/03/2022 58235264 Roundabouts
- 08/03/2022 58235173 Residential
- 08/02/2022 58231230 None

3. What Kind Of Transportation Improvements Are Needed Along This Segment? (Ex. - Lower Speeds, More Sidewalks, On-Street Parking, Turn Lanes, Medians, Trails)

08/08/2022	58276546	3 lane road - no median, stoplight at FR 190 - if and when put thru to East, no roundabouts
08/07/2022	58269264	Turn lane. Light at FR 190. Stop controlled at Blue Springs. Five Foot sidewalks each side.
08/05/2022	58262805	Round about
08/03/2022	58237047	Turn lanes
08/03/2022	58237034	Bike lane & sidewalks
08/03/2022	58236534	Lower speed to 35, medians
08/03/2022	58236054	Turn lanes
08/03/2022	58235990	Turn lanes
08/03/2022	58235876	Lower speed limit
08/03/2022	58235847	No development equals no increased traffic.
08/03/2022	58235810	Sidewalks, bike lanes
08/03/2022	58235784	Turn lane
08/03/2022	58235755	Lower speeds, turn lanes
08/03/2022	58235573	New roads?
08/03/2022	58235543	Traffic lights, median/turn lane
08/03/2022	58235173	Open mind*
08/03/2022	58234055	Speed should be determined by the type of development that takes place. Commercial or industrial - higher speed, residential - lower speed with a middle turn lane. I'm always in favor of sidewalks, biking and hiking trails.
08/02/2022	58231230	None

Route FF Corridor Public Meeting 2 Summary*

**The second public meeting was completed after the report was finalized as a meeting to showcase final recommendations. Completed after report was finalized.*

The Route FF final public meeting was held after the recommendations for Route FF were finalized as a way to share the plan for the future of Route FF with Battlefield residents. This final engagement consisted of an online survey where participants got to rank their priority for project implementation, as well as one in-person meeting where recommendations were shared.

Online Survey

A second online survey was launched on January 24, 2023 on the same date as the second public meeting, and remained open until Friday, February 10, 2023. Twelve participants completed the second survey. The survey collected feedback for priority projects along Route FF Corridor.

The survey asked participants to rank corridor improvements in order of priority (1-8) 1 being the most immediate need with 8 being a project that can wait. The survey respondents indicated a roundabout at Weaver and FF as the most immediate project and the Trail of Tears Crossing across FF as a project that can wait. Additionally, people were also asked to leave general comments or concerns. All these responses are detailed in the following pages.

Public Meeting

A second community open house was held on Tuesday, January 24th, 2023, from 4:00pm-6:00pm at Battlefield City Hall. The meeting was advertised to Battlefield residents and those individuals that use Route FF. Eight people left comments on the Ozarks Transportation Organization Facebook page. Twenty-seven people attended and listened to the project team discuss the Route FF Corridor Study, including design and planning recommendations, Route FF Corridor Study timeline, and traffic calming tools. After a brief presentation, members of the public were asked to review project boards.

There were four boards available for the public to review and leave post-it notes with their thoughts and opinions and provide input on the design and planning recommendations along Route FF.

1. Board 1-Route FF Corridor Study Recommendations-Design Recommendations, Planning Recommendations, Key Project Goals
2. Board 2-Route FF Corridor Study Recommendations & Timeline- Segment 1 typical design recommendation, Segment 2 typical design recommendation,

Segment 3 typical design recommendation, recommended planning treatments & timing, recommended design treatments and timing.

3. Board 3- General Traffic Calming Information-Speed management, volume manage, traffic calming tools examples. (Center median, marked crosswalk, gateway branding, shared use path, 11ft travel lanes, and on-street parking (downtown).
4. Board 4- General Roundabout Benefits Information-proposed intersection improvements mapping by segment.
Boards are included in the following pages.

The second Route FF Corridor Study survey provided a strong opinion on the priority of corridor improvements along the corridor. A roundabout at Weaver and FF and 3-lanes from Weaver to Blue Springs were ranked being the most immediate need. The Trail of Tears Crossing across FF and the corridor wide branding & placemaking being projects that can wait. Using this information, the Core Team was able to finalize design and planning recommendations as well as possible implementation of timing of future roadway projects.





OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION

Route FF Corridor Study
Community Open House

January 24, 2023

4:00 pm – 6:00 pm

City of Battlefield – Community Room
5434 S Tower Drive, Battlefield, MO

SIGN IN SHEET

NAME (PLEASE PRINT)	SIGNATURE	AFFILIATION
miki medears	Miki	Recettor
ZAC WOODS	Zac	Alderman
Mary Ann Schmidt	Mary Ann Schmidt	Resident
David Byrd	David Byrd	Home Owner
Julie Parrison	Julie Parrison	Home Owner
GENE PARRISON	Gene Parrison	Home Owner
Sonny McNeill's	Sonny McNeill's	Home Owner
EVARENE & DEZIREE MARSH	EM	Homeowner
Myra Rippe	Myra Rippe	Homeowner
Don & Beverly Smith		Homeowner



OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION

Route FF Corridor Study

Community Open House

January 24, 2023

4:00 pm – 6:00 pm

City of Battlefield – Community Room
5434 S Tower Drive, Battlefield, MO

SIGN IN SHEET

NAME (PLEASE PRINT)	SIGNATURE	AFFILIATION
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Debra Hick	<i>Debra Hick</i>	Mayor
Gita Scherler	<i>Gita Scherler</i>	resident

Morgan Jarril	<i>Morgan Jarril</i>	resident
Richard & Barbara Stokes	<i>Richard & Barbara Stokes</i>	resident

Mel & Lana Rush	<i>Mel & Lana Rush</i>	Business/land owner
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<i>Richard Baker</i>	<i>Richard Baker</i>	Resident
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MARK MAIS	<i>MARK MAIS</i>	Resident
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Pam Hamilton	<i>Pam Hamilton</i>	Resident
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OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION

Route FF Corridor Study

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SIGN IN SHEET

NAME (PLEASE PRINT)	SIGNATURE	AFFILIATION
MARK CRABTREE	Mark C.	ALDERMAN
RICHARD D. SCHMIDT	Richard Schmidt	RESIDENT
Raymond Eddings	R Eddings	Resident
DERRYL HUTTON	D Hutton	"
John Michno	John Michno	"

ROUTE FF CORRIDOR STUDY RECOMMENDATIONS



KEY PROJECT GOALS



Reduce speeds
(not to exceed 35 mph)



Foster vision of the local
Battlefield Community



Traffic calming
corridor wide



Intersection
enhancements



Pedestrian connectivity



Accommodate future
trail crossings



Accommodate future
FR 190

DESIGN RECOMMENDATIONS

- **3-lane typical section (80 ft right of way (ROW) - Weaver to Blue Springs)**
- **Design speed 35 mph (secondary arterial status)**
- **Multimodal 10 ft Shared Use Path (east) & sidewalk (west)**
- **Updated pedestrian crossing at intersections & Trail of Tears crossing near Somerset**
- **Corridor wide traffic calming enhancements (narrowed lanes/raised medians)**
- **80 ft ROW to accommodate typical secondary arterial design standards**

PLANNING RECOMMENDATIONS

- **Reclassify Route FF as a secondary arterial on OTO Major Thoroughfare Plan (MTP)**
- **Update Battlefield Subdivision Regulations**
 - 405.390 Access Management
 - 405.400 OTO MTP update text
 - 405.400 Design standards
 - 405.410 sidewalk provision
- **Assign roadway improvement needs for future development**
- **Explore street renaming & branding**
- **Corridor wide traffic calming**

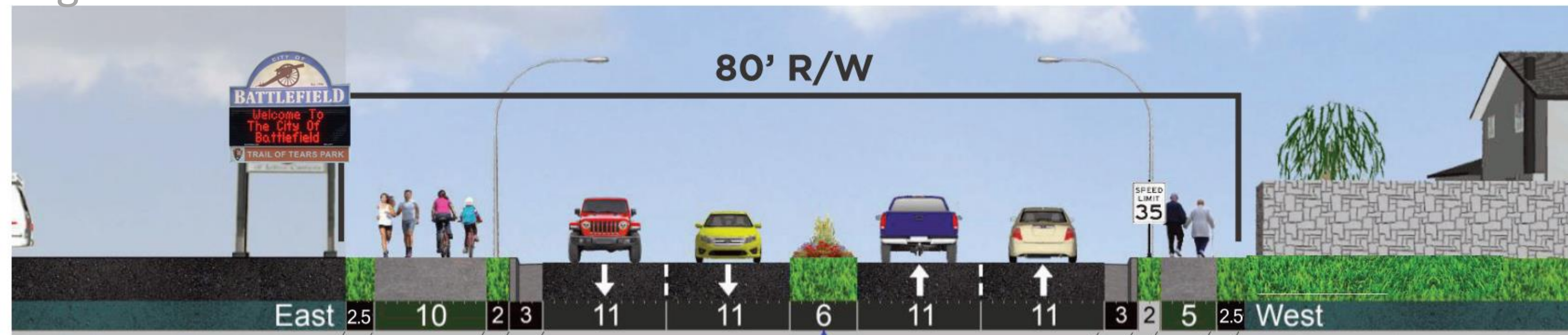
*4-lane typical section recommended from FR 123 to Weaver, 3-lane section may incorporate center medians in future downtown Battlefield for traffic calming and access management



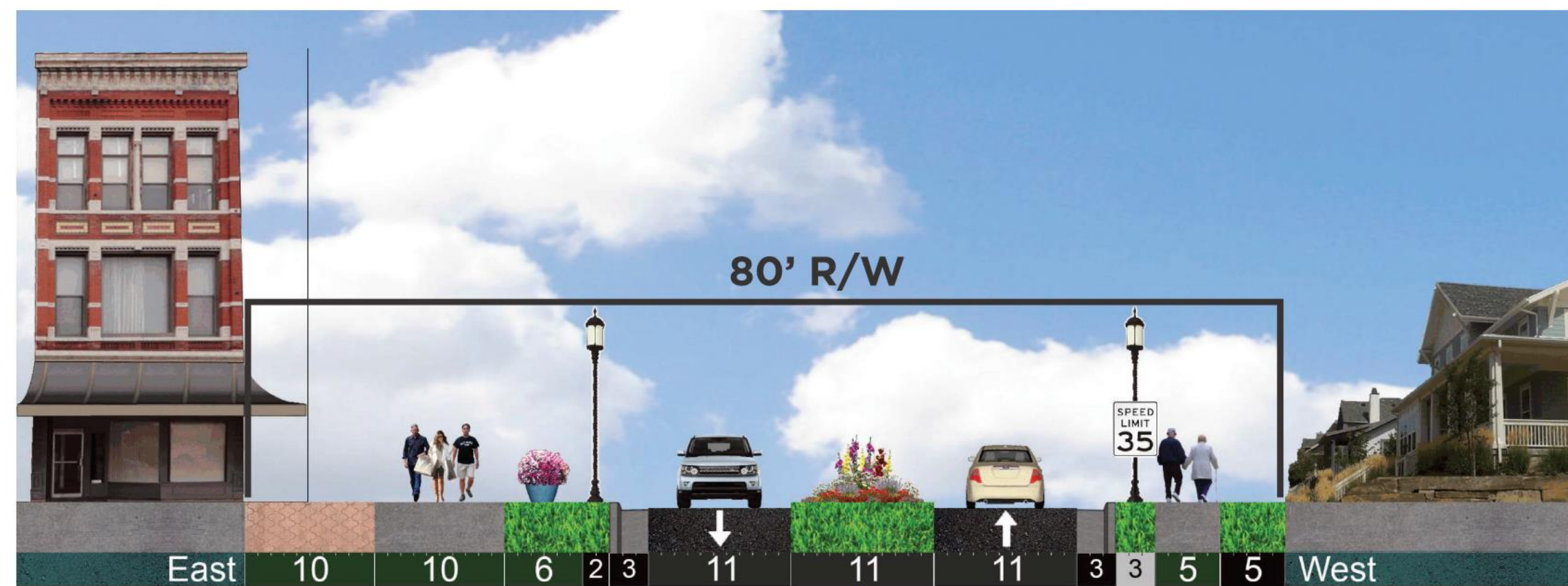
ROUTE FF CORRIDOR STUDY RECOMMENDATIONS & TIMELINE

TYPICAL DESIGN RECOMMENDATIONS

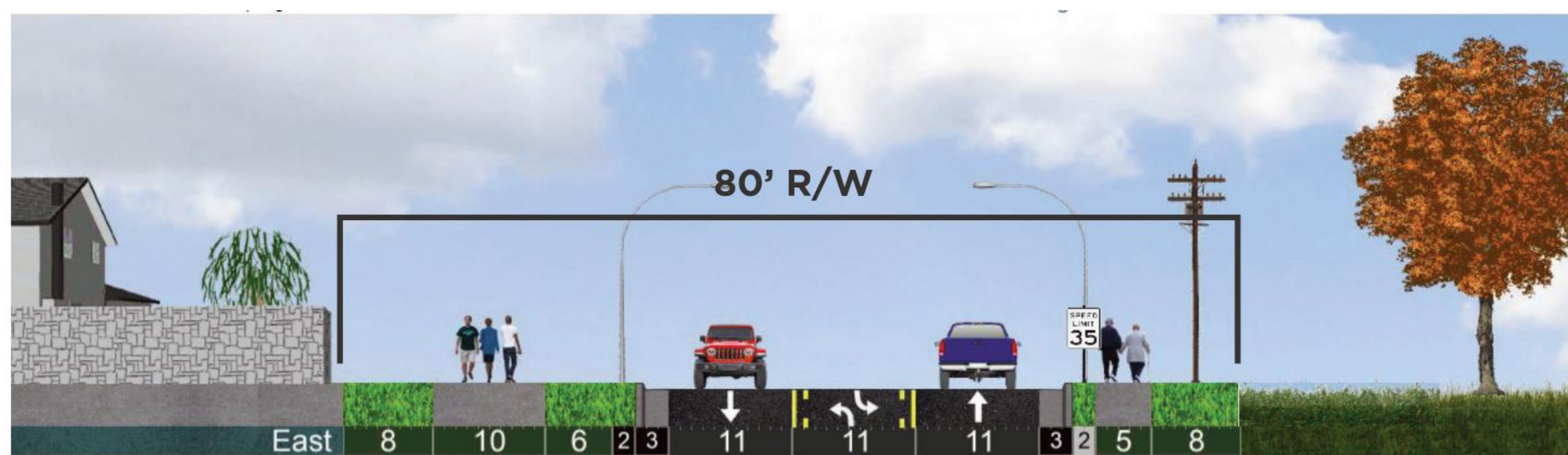
Segment 1: FR 123 to Weaver



Segment 2: Weaver to Azalea Terrace



Segment 3: Azalea Terrace to Blue Springs



**Financial Disclaimer: This study was prepared in cooperation with the USDOT, including FHWA and FTA, as well as the Missouri Department of Transportation. The opinions, findings, and conclusions expressed in this publication are those of the authors and not necessarily those of the Missouri Highways and Transportation Commission, the Federal Highway Administration, or the Federal Transit Administration. No funding is identified for corridor recommendations, but this plan positions Battlefield to be competitive for future funding for design projects on the corridor.*

PLANNING RECOMMENDATIONS

RECOMMENDED PLANNING TREATMENT	TIMING
Reclassify Route FF as secondary arterial on the Major Thoroughfare Plan (OTO)	Early 2023
Explore a name change/street rebranding	Start now
Update Battlefield Street Design Standards/subdivision regulations	2023
Assign roadway improvements for future development needs	After subdivision regulation updates

DESIGN RECOMMENDATIONS

RECOMMENDED DESIGN TREATMENTS	TIMING
3-lane typical section; 80 ft ROW (secondary arterial design guidance)	Average Daily Traffic (ADT) threshold of 11,000
Design speed 35 mph (governed by secondary arterial)	During corridor redesign (ADT threshold reached)
10 ft shared use path (SUP) on E side & sidewalk on W side	During corridor redesign (ADT threshold reached)
Roundabouts at Weaver, 3rd, Azalea, & Blue Springs (FR 190 when road extended/built out)	(1st) Weaver-high crash location (2nd) 3rd-high crash location & compliment to roundabout at Weaver
Trail of Tears crossing at Somerset	During corridor redesign (ADT threshold reached)
Update high visibility crosswalks throughout	During corridor redesign (ADT threshold reached)
Corridor-wide traffic calming	Depending on specific treatment, during corridor redesign or as adjacent development occurs

ROUTE FF CORRIDOR STUDY

TRAFFIC CALMING

SPEED MANAGEMENT

- Slow down motor vehicles to reduce crash severity
- Enhance environment along corridor for all users
- Impact motorist behavior

VOLUME MANAGEMENT

- Deter cars from using routes not designed to move heavy volumes of traffic
- Impact travel patterns

TRAFFIC CALMING TOOLS EXAMPLES



Center Median



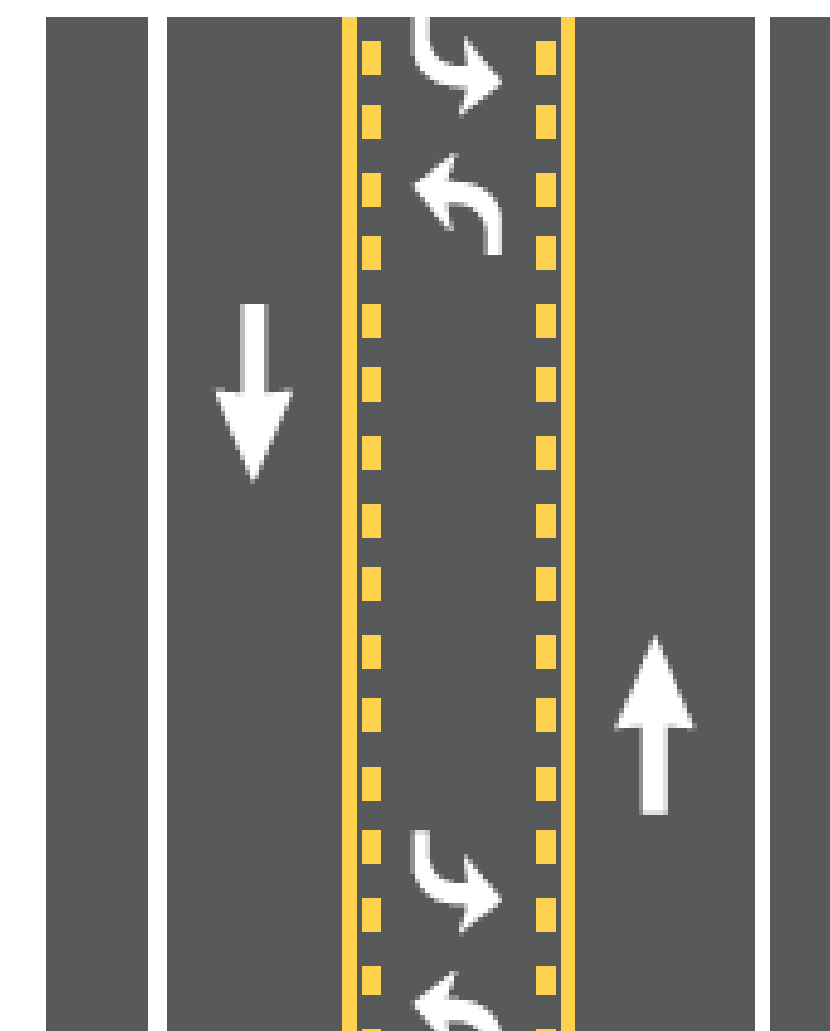
Marked Crosswalk



Gateway Branding



Shared Use Path



11 ft travel lanes



On-street parking (Downtown)



OZARKS TRANSPORTATION ORGANIZATION
A METROPOLITAN PLANNING ORGANIZATION



ROUTE FF CORRIDOR STUDY ROUNDBABOUT BENEFITS



90% ↓
90% reduction in fatalities



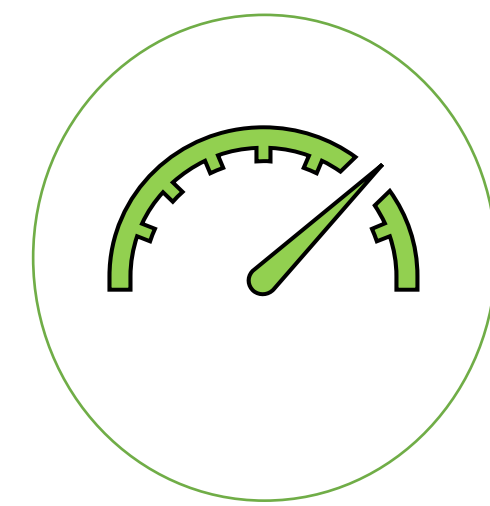
76% ↓
76% reduction in injury



30-40% ↓
30-40% reduction in pedestrian crashes



10% ↓
10% reduction in bicycle crashes



LOWER VEHICLE SPEEDS

On average, speeds are 2.5 mph lower when entering traffic signals on corridors with roundabouts.



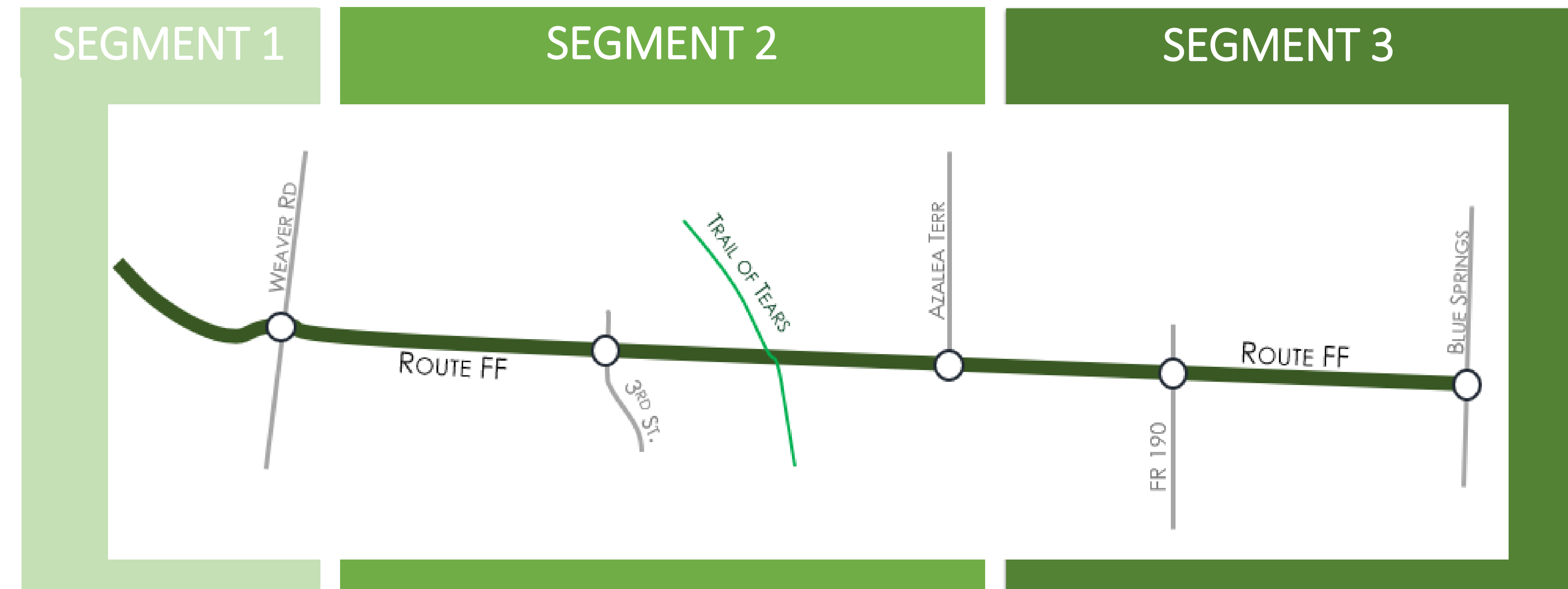
LOWER LONG-TERM MAINTENANCE COSTS

Roundabouts are a more affordable long-term solution due to reduced maintenance costs to the local agency.

**Institute for Highway Safety*



PROPOSED INTERSECTION IMPROVEMENTS



Rt FF Comment Card
Public Meeting 2 (1/24/2023)
Survey Responses & Input

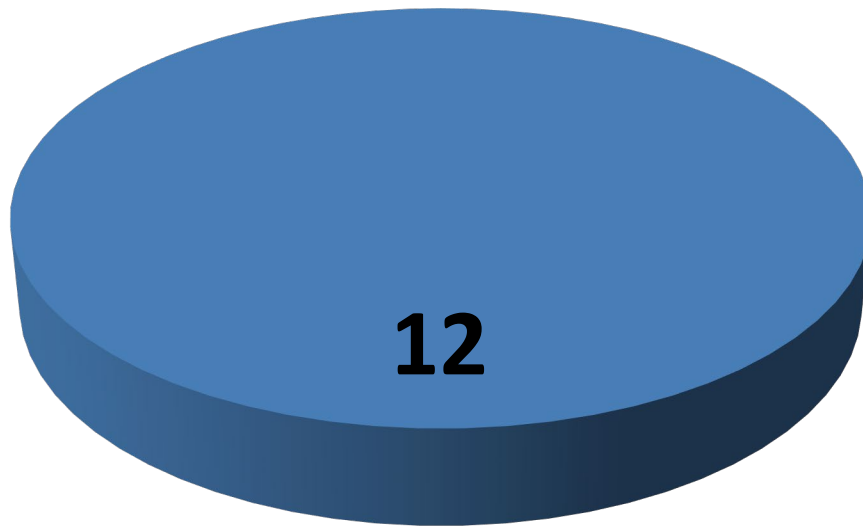
My Dashboard

comment@ozarkstransportation.org

Survey Overview

Completion / Dropout

0



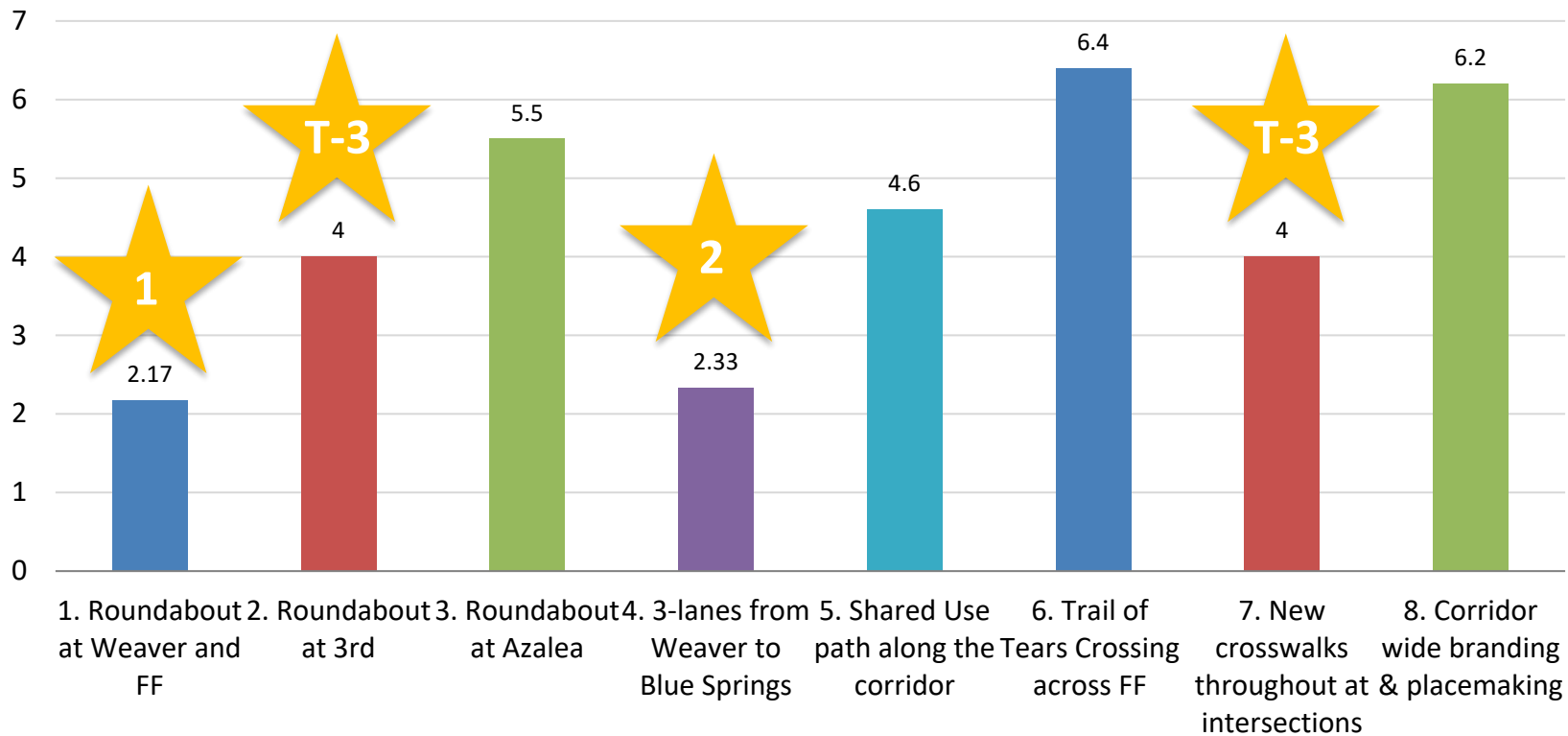
- Completed
- Drop Out

Contact Information

Response ID	Response
59926028	Danny Klopfer 515-208-2019 kloferd@msn.com
59899248	Tasha Detloff 417-459-0576 Tdetloff2011@gmail.com
59889861	Justin Duncan 573-205-9527 duncan205@live.com
59861938	Sarah Woolery 417-880-5383 Woolery365@gmail.com
59827206	Georgia Claxton 125-241-4050 gkclaxton127@gmail.com
59825958	Tony Wood 417-838-9311 twood@ahabhousing.com
58433912	Georgia Claxton 252-414-0502 gkclaxton127@gmail.com
58240797	Steve and Tracy Arnold retired16@att.net
58239661	Danny Klopfer 515-208-2019 kloferd@msn.com
58234079	John O'Reilly 417-839-8007 scott@oreilly.net

Response ID	Response
58231181	Robert Laws 217-972-3554 Lawsrobert927@gmail.com
58196532	Y Jackson 417-576-1164 johnnynancy2006@sbcglobal.net

Please rank corridor improvements in order of priority (1-8).
1 being the most immediate need with 8 being a project that can wait:



Additional Comments:

Response ID	Response
59899248	A roundabout at 3rd and Azalea is too much. Choose 1 of those, not both.
59889861	This plan, as proposed, takes up the entirety of my front yard and several of my neighbors yard. This bring traffic very close as well as foot traffic.
59861938	After living in Europe, I see the effectiveness of roundabouts. I do not understand why people in this area are so against them. I feel that the three proposed roundabouts would help both slow traffic and help with traffic flow while reducing the number of accidents in those areas. I also feel like the street does need to be widened in some areas and think this should be a focus. I do not think that parallel parking in a future downtown area would be the best idea (they don't know how to use a roundabout, help us if they have to parallel park!). Perhaps angled parking similar to that in the ozark square would work better for this demographic. Overall, I support the ideas in this plan.
58433912	For 6.5 years, we have lived in the Gettysburg Address Subdivision, which is accessed from Rt FF via Somerset Dr and W Wilson's Creek Battle St. We have noted a steady increase in traffic as new building continues with planned growth within the city limits. Improvements we would applaud include center turn lanes and perhaps a signal at Third St and FF. We would also love to see the Brookline Station PO be decommissioned and replaced by a true Battlefield PO.

58240797

Firstly, it would have been nice if there had been notification sent to Battlefield residents regarding the expansion of the Route FF and any community input towards the expansion would have been helpful. Secondly, for emergency response purposes, thoroughfares are your best options: ie: stop signs, stop lights, turn lanes and NO round a-bouts. It slows response times for emergency vehicles and personnel. It is hard for them to maneuver around them. Thirdly, is this expansion discussion for population growth or industry? In reading this study, there is no mention of speed considerations for this corridor. In addition to the widening of Route FF has there been any considerations for the arterial roads to the FF? I have not read in any of the study, who will be monetarily responsible for the relocation and/or addition of water, sewer or any other public utilities. On a personal note, as daily drivers on Route FF, at FR123 where it expands to two lanes, you find little to no traffic buildup. Now, however, emerging from the side streets onto Route FF traffic has become more congested and getting onto FF has become more difficult. Battlefield is a destination for people to commute to and from. We see Battlefield as a residential, working/retired class community, not a brick and mortar town. Regards, Steve and Tracy Arnold

58239661

My wife and I attended meeting in Battlefield last evening. I'm attempting to answer the survey as we did not fill one out last night. We live in Battlefield and drive FF regularly. We normally use our automobile, but I occasionally use electric scooter as I'm handicapped. But only on residential sidewalks. We use FF as pleasure. I believe the end of the four-lane divided roadway should remain at Sandy and three lane roadway with sidewalks on both sides with a dedicated bicycle lane be included. The Bicycle lane can be an extra wide sidewalk on one side. A round about at weaver is it is three lanes will work. Some think they are silly, but you know if they will handle the traffic flow. From Weaver all the way to Blue Springs the configuration can be the same three lane with sidewalk and bicycle path. Need to keep in mind that the downtown area of Battlefield may redevelop, and you may need to slow the speed from Montgomery to Somerset. Love to keep informed of progress on this project. Thanks



58234079

I believe the intersection of Farm Road 172 and FF Hwy is in need of traffic control, whether by signal or roundabout.

58231181

I live on FF the traffic is very fast 45 mph think that is to fast through the middle of town sometimes hard to get out or in driveway also have grandkids that live with me if someone was to loose control or the would end up in my yard or worse my house just think this needs to be taken into consideration thank you for your time to read