

PROJECT LOCATION MAP



LOCATION MAP (NOT TO SCALE)

END
PROJECT

DRESDEN AVENUE

S.R. 11/U.S. 30/S.R. 7

CITY OF
EAST LIVERPOOL

S.R. 39

U.S. 39

BEGIN
PROJECT

N

3000 ft

S.R. 7/S.R. 39

2

1/3

Google Earth

66/18 66/19 66/17 66/16

ESTIMATED PROJECT COSTS

**PRELIMINARY ESTIMATED PROJECT COSTS CITY OF EAST LIVERPOOL
DRESDEN AVENUE ROADWAY IMPROVEMENTS - PHASE 2 (6/11/21)**

ITEM NUMBER	ESTIMATED QUANTITIES	UNIT	DESCRIPTION	UNIT PRICE	ESTIMATED COST
ROADWAY					
201	LUMP	SUM	Clearing and Grubbing	\$15,000.00	\$15,000.00
202	200	S.F.	Walk Removed	\$5.00	\$1,000.00
202	200	FOOT	Curb Removed	\$9.00	\$1,800.00
204	475	C.Y.	Excavation of Subgrade	\$16.00	\$7,600.00
204	475	C.Y.	Granular Embankment	\$66.00	\$31,350.00
204	2,000	S.Y.	Geotextile Fabric	\$2.00	\$4,000.00
209	40.0	STA.	Linear Grading, As Per Plan	\$1,200.00	\$48,000.00
209	100.0	STA.	Preparing Subgrade for Shoulder Paving	\$700.00	\$70,000.00
608	200	S.F.	4" Concrete Walk, As Per Plan	\$10.00	\$2,000.00
			SUBTOTAL ROADWAY		\$180,750.00
EROSION CONTROL					
601	1,000	FOOT	Paved Gutter, As Per Plan	\$110.00	\$110,000.00
659	4,500	S.Y.	Seeding and Mulching	\$2.50	\$11,250.00
670	1,000	S.Y.	Ditch Erosion Protection	\$4.50	\$4,500.00
832	7,500	EACH	Erosion Control	\$1.00	\$7,500.00
					\$133,250.00
DRAINAGE					
611	100	FOOT	15" Conduit, Type B, As Per Plan	\$62.00	\$6,200.00
611	100	FOOT	18" Conduit, Type B, As Per Plan	\$67.00	\$6,700.00
611	5	EACH	Catch Basin Reconstructed to Grade, As Per Plan	\$1,500.00	\$7,500.00
611	5	EACH	Manhole Reconstructed to Grade, As Per Plan	\$1,500.00	\$7,500.00
SPECIAL	1,000	POUND	Miscellaneous Metal	\$3.50	\$3,500.00
			SUBTOTAL DRAINAGE		\$31,400.00
PAVEMENT					
254	14,000	S.Y.	Pavement Planing, Asphalt Concrete, A.P.P. (T=3"+/-)	\$3.50	\$49,000.00
255	1,400	S.Y.	Full Depth Pavement Removal and Rigid Replacement, Class QC MS, As Per Plan	\$140.00	\$196,000.00
255	4,200	FOOT	Full Depth Pavement Sawing	\$3.00	\$12,600.00
304	120	C.Y.	Aggregate Base, As Per Plan	\$80.00	\$9,600.00
305	25	S.Y.	10" Concrete Base, Class QC MS	\$100.00	\$2,500.00
407	800	GAL.	Tack Coat	\$3.00	\$2,400.00
407	1,200	GAL.	Tack Coat, 702.13	\$3.00	\$3,600.00
408	900	GAL.	Prime Coat	\$11.00	\$9,900.00
441	500	C.Y.	Asphalt Concrete Surface Course, Type 1, (448), As Per Plan, (PG64-22)	\$255.00	\$127,500.00
441	700	C.Y.	Asphalt Concrete Intermediate Course, Type 2, (448)	\$240.00	\$168,000.00
609	200	FOOT	Curb, Type 6	\$30.00	\$6,000.00
617	250	C.Y.	Compacted Aggregate, As Per Plan	\$60.00	\$15,000.00
SPECIAL	14,000	S.Y.	Hauling and Stockpiling of Pavement Planing Cuttings (T=3"+/-)	\$1.50	\$21,000.00
			SUBTOTAL PAVEMENT		\$623,100.00

**PRELIMINARY ESTIMATED PROJECT COSTS CITY OF EAST LIVERPOOL
DRESDEN AVENUE ROADWAY IMPROVEMENTS - PHASE 2 (6/11/21)**

ITEM NUMBER	ESTIMATED QUANTITIES	UNIT	DESCRIPTION	UNIT PRICE	ESTIMATED COST
WATER WORK					
638	10	EACH	Valve Box Adjusted to Grade	\$200.00	\$2,000.00
			SUBTOTAL WATER		\$2,000.00
TRAFFIC CONTROL					
644	2.30	MILE	Edge Line, 4"	\$4,000.00	\$9,200.00
644	1.15	MILE	Center Line	\$6,500.00	\$7,475.00
			SUBTOTAL TRAFFIC CONTROL		\$16,675.00
MAINTENANCE OF TRAFFIC					
614	50	C.Y.	Maintaining Traffic Misc.: 304 Aggregate Base, As Per Plan	\$80.00	\$4,000.00
614	2.30	MILE	Work Zone Centerline, Class 1, 642 Paint	\$1,200.00	\$2,760.00
614	1.15	MILE	Work Zone Centerline, Class 1, 740.06, Type 1	\$6,400.00	\$7,360.00
616	7	M GAL.	Water	\$45.00	\$315.00
			SUBTOTAL MAINTENANCE OF TRAFFIC		\$14,435.00
MISCELLANEOUS					
614	LUMP	SUM	Maintaining Traffic	\$50,000.00	\$50,000.00
619	4.0	MONTH	Field Office, Type A	\$1,200.00	\$4,800.00
623	LUMP	SUM	Construction Layout Stakes and Surveying	\$3,000.00	\$3,000.00
624	LUMP	SUM	Mobilization	\$30,000.00	\$30,000.00
	LUMP	SUM	Performance, Payment, and Warranty Bond	\$15,000.00	\$15,000.00
			SUBTOTAL MISCELLANEOUS		\$102,800.00
TOTAL PRELIM. ESTIMATED CONSTRUCTION COST					
			TOTAL PRELIM. ESTIMATED CONSTRUCTION COST		\$1,104,410.00

The above Total Estimated Construction Cost is based upon item cost information available to the Engineer and the Engineer's experience and qualifications on past projects similar in nature as well as the Engineer's best judgment as a professional engineer. The Engineer has no control over the cost of materials, equipment, labor or other services provided by others due to fluctuating market conditions and/or competitive bidding; therefore, the Engineer cannot and does not guarantee that the actual total project costs will not exceed the "Total Estimated Construction Cost" shown above.

ESTIMATED ENGINEERING COSTS

ANTICIPATED COSTS FOR ENGINEERING DESIGN SERVICES	\$110,000.00
ANTICIPATED COSTS FOR ENVIRONMENTAL ENGINEERING SERVICES	\$22,000.00
ANTICIPATED COSTS FOR CONSTRUCTION MANAGEMENT SERVICES: (ESTIMATED @ 10% OF CONSTRUCTION COSTS)	\$110,000.00
PERMIT FEES AND ADVERTISING	\$3,000.00
TOTAL ESTIMATED PROJECT COST	\$1,349,410.00

CITY OF EAST LIVERPOOL
DRESDEN AVENUE ROADWAY IMPROVEMENTS – PHASE 2
PROJECTED COSTS AND PROJECTED FUNDING

PROJECTED COSTS:

Estimated Construction Costs = \$1,104,410.00

Costs for Engineering Design Services = \$ 110,000.00

Costs for Environmental Engineering Services = \$ 22,000.00

Costs for Construction Inspection Services = \$ 110,000.00

Permit Fees and Advertising = \$ 3,000.00

Subtotal Engineering Costs = \$ 245,000.00

Projected Total Costs (Eng. And Const.) = \$1,349,410.00

PROJECTED FUNDING:

Local Funds (100% Engineering Design Services) = \$ 110,000.00

Local Funds (100% Environmental Eng. Services) = \$ 22,000.00

Local Funds (100% Permit Fees & Advertising) = \$ 3,000.00

Local Funds (5% Roadway Construction) = \$ 55,220.50

Local Funds (5% Construction Engineering) = \$ 5,500.00

Total Local Funds = \$ 195,720.50

ODOT Small Cities Grant (95% Roadway Constr.) = \$1,049,189.50

ODOT Small Cities Grant (95% Const. Engineering) = \$ 104,500.00

Total ODOT Small Cities Grant = \$1,153,689.50

Total Projected Funding= = = = = >\$1,349,410.00

**ANTICIPATED PROJECT SCOPE,
PROJECT EVALUATION INFORMATION, AND
PAVEMENT CONDITION RATINGS (PCR's)**

**CITY OF EAST LIVERPOOL
DRESDEN AVENUE ROADWAY IMPROVEMENTS – PHASE 2
SMALL CITY APPLICATION
ANTICIPATED PROJECT SCOPE, PROJECT EVALUATION INFORMATION,
AND PAVEMENT CONDITION RATINGS**

Anticipated Project Scope:

The project will consist of roadway improvements within the City of East Liverpool along Dresden Avenue from the northern City Limits at the north end of the project to Grant Street at the South End of the project. The total project length is approximately 6,100 feet. Dresden Avenue is a Minor Arterial located on the Federal-aid Highway System. Note: This will be Phase 2 of the project. Phase 1 of the project includes improvements along Dresden Avenue, between Grant Street and Sixth Street; Phase 1 was approved for ODOT Small Cities funding in 2020 (ODOT PID #114058).

The project will consist of the following roadway improvements:

- 3” of asphalt pavement planing with 3” asphalt overlay, including any necessary pavement repair, along all of the entire project length including any necessary side street approaches.
- Adjustment to grade of all manholes & valve boxes, as necessary. Reconstruction to grade of catch basins and inlets, as necessary.
- Curb ramps are not anticipated to be necessary.
- Curb repairs will be performed, where necessary.
- Shoulder Preparation will be performed, where necessary.
- Linear Grading and/or paved gutter to improve the existing ditches and drainage will be performed, where necessary.
- Clearing & grubbing including any necessary tree trimming and/or removal.
- The necessary pavement markings (centerlines, edge lines, etc.) will be provided.
- Work on any necessary side streets will terminate at the end of the curb returns and/or pavement radii.
- All roadway work will be performed within the existing road right of way.

Project Evaluation Information and Pavement Condition Ratings:

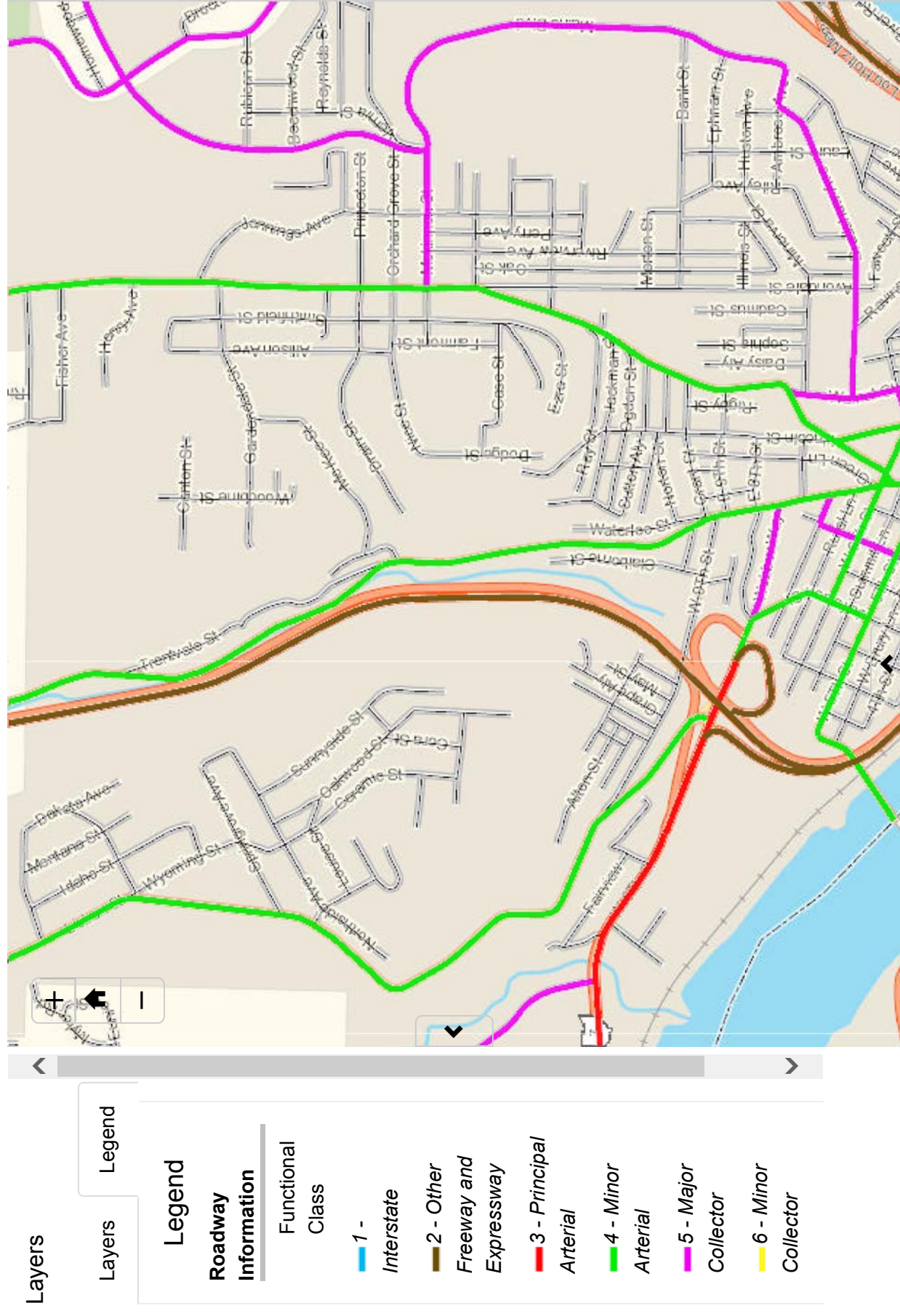
Current Conditions, Roadway Issues, and Safety Issues: The existing Dresden Avenue roadway consists of several layers of asphalt on top of an anticipated concrete base. The existing pavement width is approximately (20) feet wide from the northern City Limits and continuing south to Grant Street (approximately 6,100 feet) with primarily turf shoulders with some segments of straight curb and sidewalk.

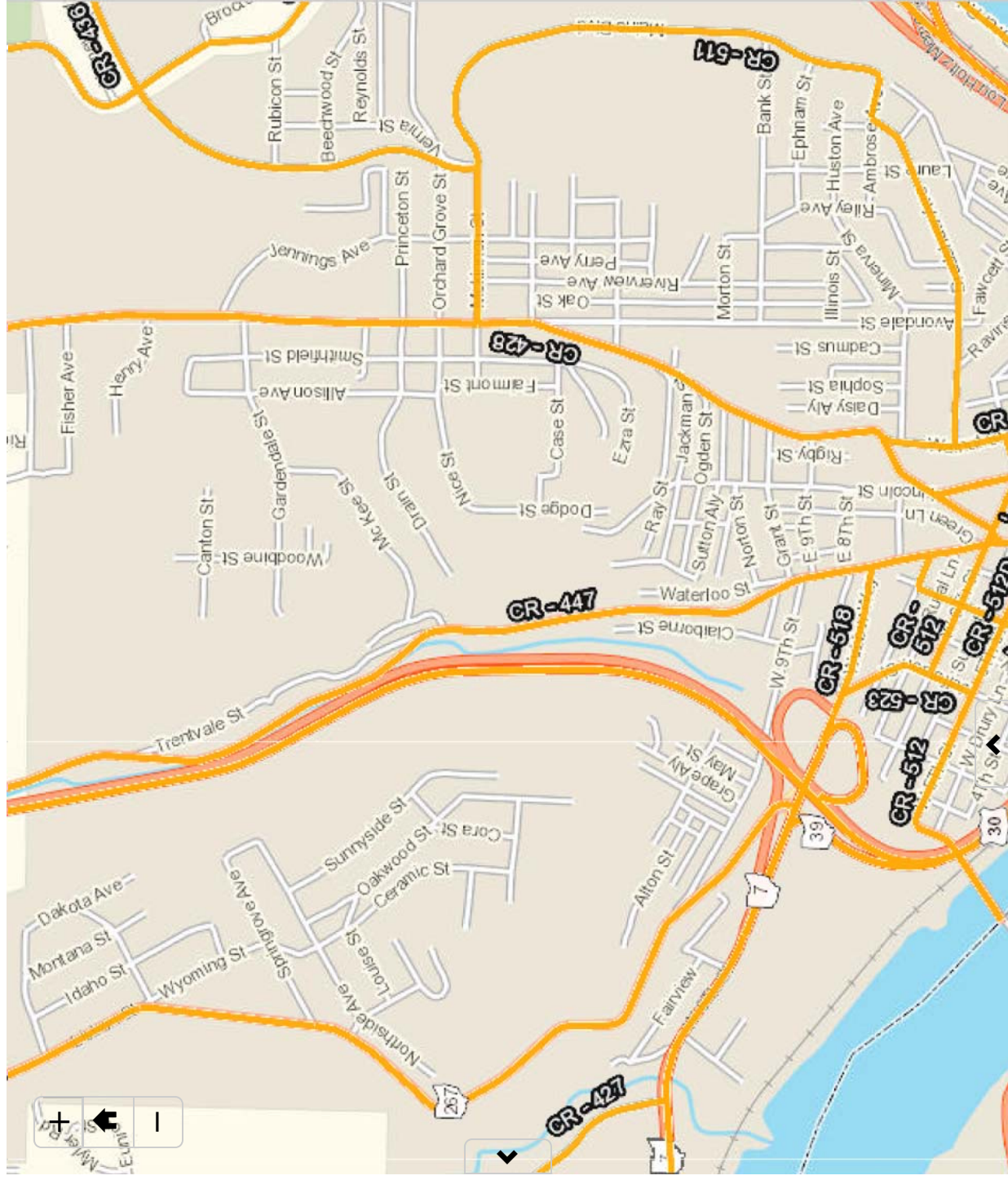
As shown by the attached photographs, the existing pavement along the aforementioned roadway has numerous patches due to pothole repairs, numerous unrepaired potholes, and numerous repairs from utility work which present a definite safety concern. Numerous areas with alligator cracking and transverse & longitudinal cracking are also visible in the existing pavement.

The Dresden Avenue roadway corridor currently serves the City's Downtown Business District, as access to the Kent State University East Liverpool Campus, as a major school bus route for the Westgate Middle School, and as access to numerous residential properties adjacent to the downtown area. Dresden Avenue also provides direct access to the S.R. 7/S.R. 11/S.R. 30/S.R. 39 freeway interchanges directly adjacent to the City's downtown area. Being a Minor Arterial roadway and as evidenced by the current ADT, the aforementioned roadway corridor serves as a major access route into, out of, and within the City of East Liverpool as well as serving as a major school bus route within the City.

The following represents the basis of evaluation for the need of resurfacing and repairing the Dresden Avenue roadway within the City of East Liverpool:

- City Officials reported that it has been (15) years since the aforementioned roadway has been properly repaired and resurfaced. The roadway is currently experiencing numerous visible potholes, pothole patching, alligator cracking, transverse & longitudinal pavement cracking, and utility trench repairs in numerous locations.
- Field observations and evaluation of the existing pavement condition for the aforementioned roadway was performed in 2019 and re-evaluated again in 2020 & 2021 by City Officials and by Dallis Dawson & Associates (DDA); it was concluded that at a minimum of resurfacing and repairing of the roadway was necessary. In addition, relative to the ODOT Local PCR values listed in ODOT TIMS, conditions of the roadway have been deteriorating severely since the listing of the Local PCR values.
- Photographs taken by DDA during the field observations and a project cost estimate have been included with this application.
- See the aforementioned information provided under "Current Conditions, Roadway Issues, and Safety Issues".
- See attached ODOT TIMS PCR's for the aforementioned roadway.





Layers

Layers

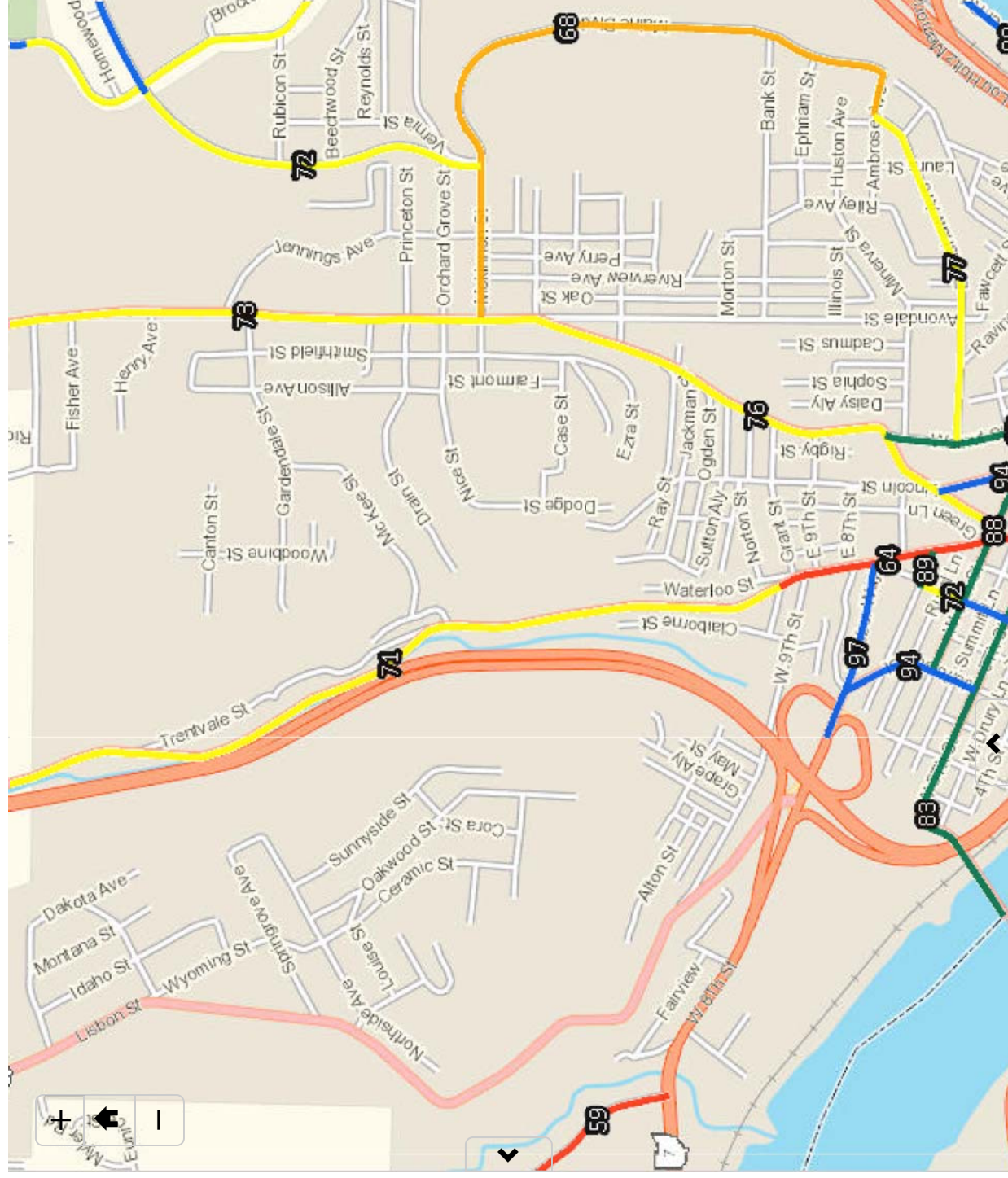
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Roadway
Information

— Federal Aid
Eligible

ODOT TIMS Pavement Condition Ratings (PCR's)



Layers

Layers

Legend

Legend

Roadway Information

PCR (Local)

25 - 65

66 - 69

70 - 79

80 - 89

90 - 100

PROJECT PHOTOGRAPHS

**CITY OF EAST LIVERPOOL
DRESDEN AVENUE ROADWAY IMPROVEMENTS –PHASE 2
SMALL CITY APPLICATION - PROJECT SITE PHOTOGRAPHS**



(cont'd)

**CITY OF EAST LIVERPOOL
DRESDEN AVENUE ROADWAY IMPROVEMENTS – PHASE 2
SMALL CITY APPLICATION - PROJECT SITE PHOTOGRAPHS (cont'd)**



ANTICIPATED PROJECT SCHEDULE

**CITY OF EAST LIVERPOOL
DRESDEN AVENUE ROADWAY IMPROVEMENTS – PHASE 2
SMALL CITY APPLICATION
ANTICIPATED PROJECT SCOPE AND SCHEDULE**

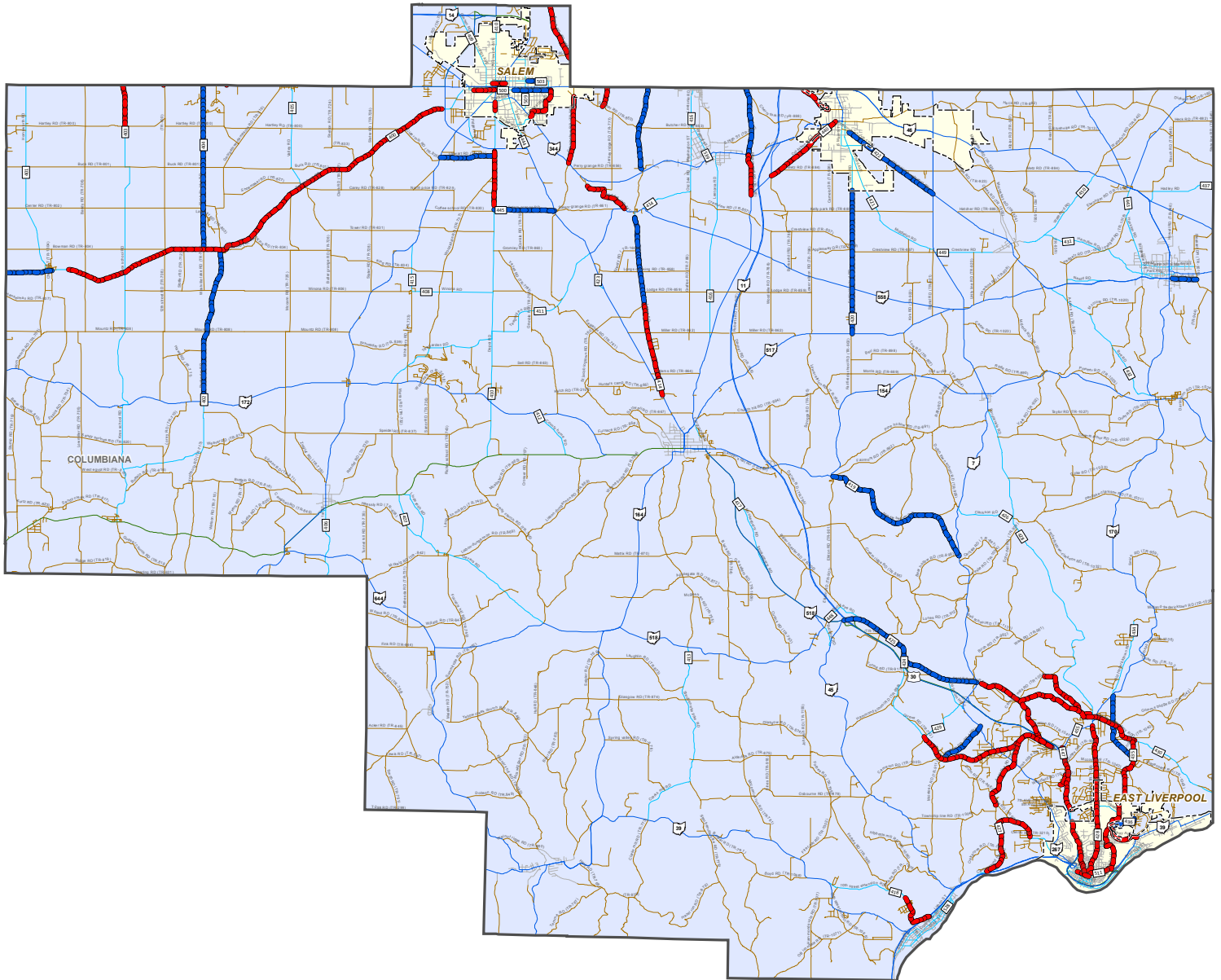
Anticipated Project Schedule:

Authorized Design Consultant	October 1, 2022
Stage 2 Plans Submitted	July 1, 2023
Environmental Document Approved	September 1, 2023
Stage 2 Plans Complete	September 15, 2023
Tracings Complete	October 15, 2023
Local Let PS&E Package to District	October 15, 2023
District R/W Certification	November 1, 2023
Plan Package Received in C.O.	November 15, 2023
Sale Date	January 8, 2024
Award Date	March 1, 2024
Estimated Begin Construction	May 1, 2024
Estimated End Construction	August 31, 2024

SAFETY INTEGRATED PROJECT MAP

SFY2015 Safety Integrated Project Maps - Local System

Columbiana County



High Priority

- ✖ Intersections/Interchanges
- Segments

Low Cost Improvements

- ✖ Intersections/Interchanges
- Segments

Other Routes

- #### Roads by Type
- Interstate Route
 - United States Route
 - State Route
 - County Road
 - Township Road



Date: 2/17/2016

0 1.5 3 6 9
Miles



OHIO DEPARTMENT OF
TRANSPORTATION

Division of Planning

Office of Program
Management

ECONOMIC HEALTH

Appendix C – County Unemployment Rates

This appendix is provided as a reference for C5 – Benefit to Low-Income in County. The December 2020 Unemployment Rate for each Ohio County (not seasonally adjusted) is provided in the table below.

The Ohio Unemployment Rate as of December 2020 was 5.2% percent.

County	Rate	County	Rate	County	Rate
Adams	6.6	Hamilton	5.0	Noble	7.7
Allen	5.2	Hancock	4.1	Ottawa	7.0
Ashland	4.7	Hardin	5.1	Paulding	4.4
Ashtabula	6.1	Harrison	6.6	Perry	5.8
Athens	5.0	Henry	5.6	Pickaway	4.5
Auglaize	3.7	Highland	5.7	Pike	6.5
Belmont	6.5	Hocking	5.1	Portage	4.9
Brown	5.5	Holmes	2.7	Preble	4.2
Butler	4.4	Huron	7.1	Putnam	3.4
Carroll	5.8	Jackson	6.2	Richland	5.6
Champaign	4.1	Jefferson	6.9	Ross	4.8
Clark	5.0	Knox	4.2	Sandusky	5.2
Clermont	4.3	Lake	5.5	Scioto	6.0
Clinton	5.4	Lawrence	5.0	Seneca	5.0
Columbiana	6.2	Licking	4.2	Shelby	4.3
Coshocton	6.0	Logan	4.3	Stark	5.2
Crawford	5.4	Lorain	6.1	Summit	5.5
Cuyahoga	6.8	Lucas	6.0	Trumbull	6.9
Darke	4.2	Madison	4.0	Tuscarawas	5.0
Defiance	4.9	Mahoning	6.6	Union	3.6
Delaware	3.6	Marion	5.0	Van Wert	4.0
Erie	7.4	Medina	4.6	Vinton	6.8
Fairfield	4.3	Meigs	6.6	Warren	4.0
Fayette	4.6	Mercer	3.0	Washington	5.9
Franklin	4.9	Miami	4.3	Wayne	3.8
Fulton	4.8	Monroe	7.3	Williams	4.7
Gallia	5.5	Montgomery	5.4	Wood	4.2
Geauga	4.5	Morgan	6.8	Wyandot	3.9
Greene	4.2	Morrow	4.8	Source: Ohio Department of Job and Family Services	
Guernsey	6.2	Muskingum	5.5		



**AVERAGE DAILY TRAFFIC, POSTED SPEED LIMITS,
CRASH FREQUENCY, AND
EQUIVALENT PROPERTY DAMAGE ONLY INDEX**

**CITY OF EAST LIVERPOOL
DRESDEN AVENUE ROADWAY IMPROVEMENTS – PHASE 2
SMALL CITY APPLICATION
AVERAGE DAILY TRAFFIC, POSTED SPEED LIMITS, CRASH FREQUENCY,
AND EQUIVALENT PROPERTY DAMAGE ONLY INDEX**

ESTIMATED AVERAGE DAILY TRAFFIC (FROM ODOT TIMS):

Roadway	Average Daily Traffic	V/C Ratio (Estimate)	Roadway Length	Posted Speed Limit
Dresden Avenue	2,781 vpd	1.00	6,100 feet	35 mph

CRASH FREQUENCY:

Roadway	Crashes (3-year) (2017-2019)
Dresden Avenue	1

Crash Frequency = 1

CITY OF EAST LIVERPOOL - EPDO INDEX
DRESDEN AVENUE ROADWAY IMPROVEMENTS - PHASE 2

2017-2019 CRASHES

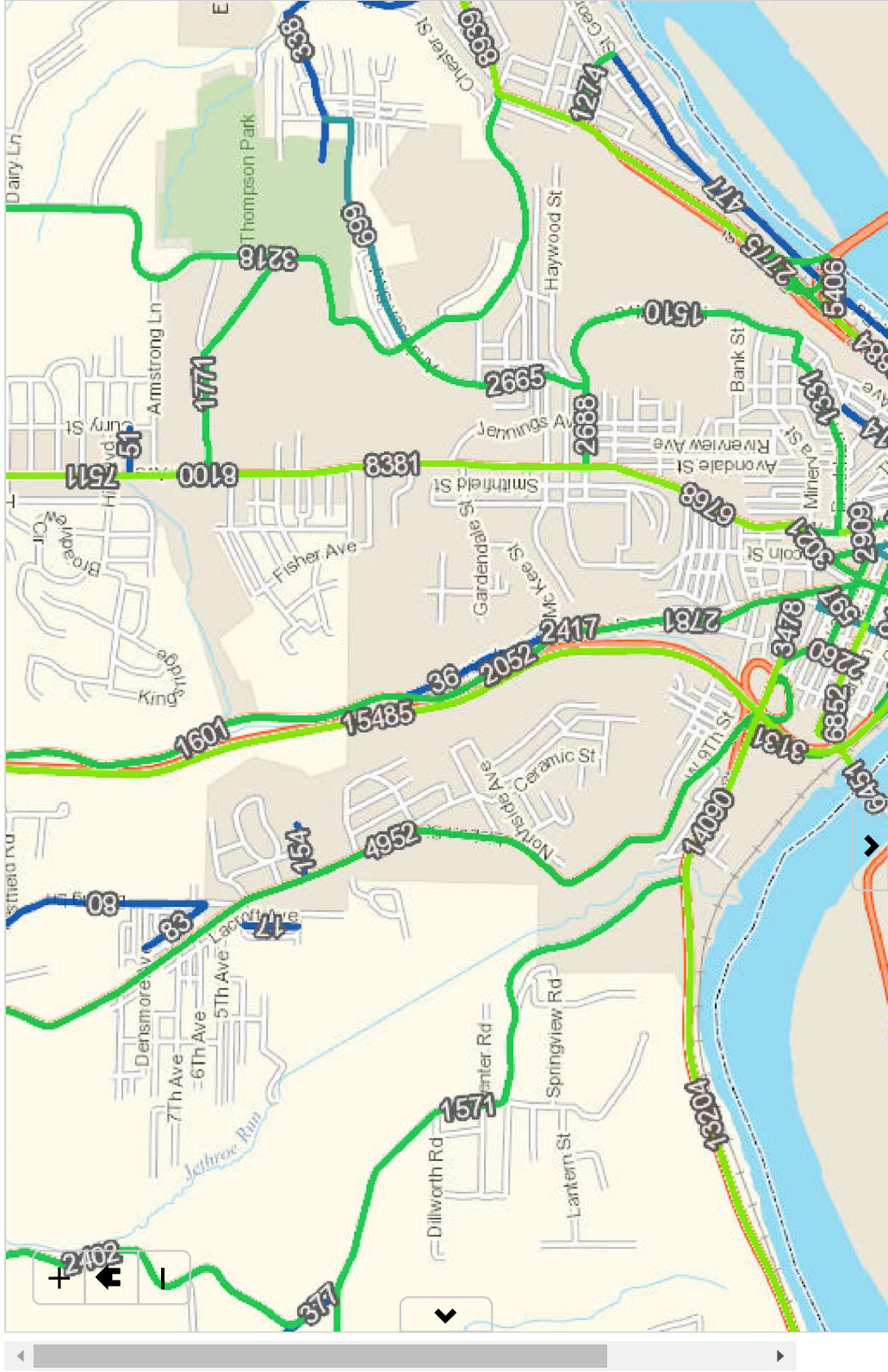
DRESDEN AVENUE	
CRASH LEVEL	WEIGHTING FACTOR
Vis. Injury	6.55

TOTAL CRASHES = 1

TOTAL WT. FACT.= 6.55

EPDO INDEX = 6.55

ODOT TMS AADT



Layers

Layers

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Roadway Information

Traffic Count Segments

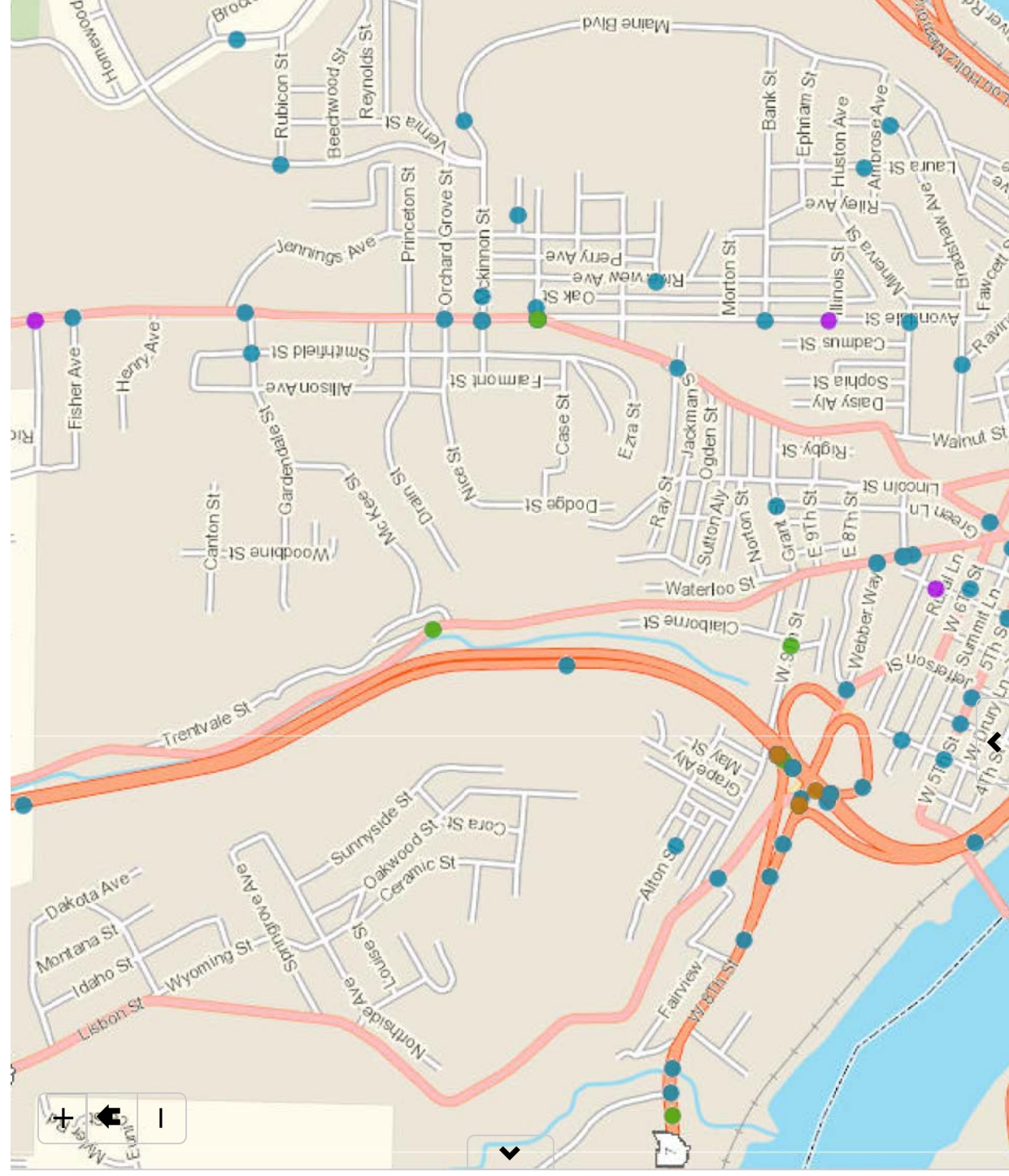
- 0 - 500
- 501 - 1,000
- 1,001 - 5,000
- 5,001 - 25,000
- 25,001 - 50,000

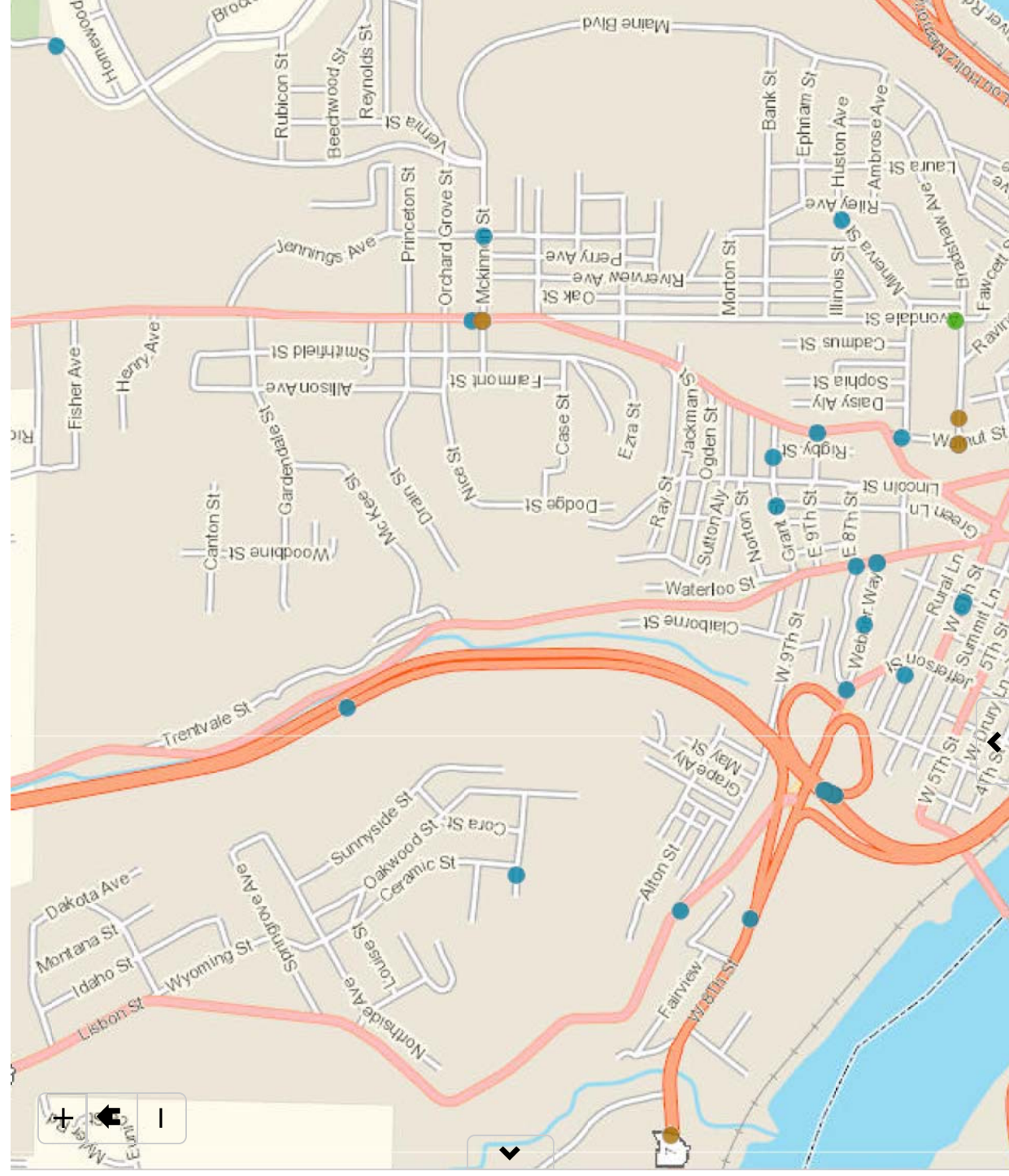
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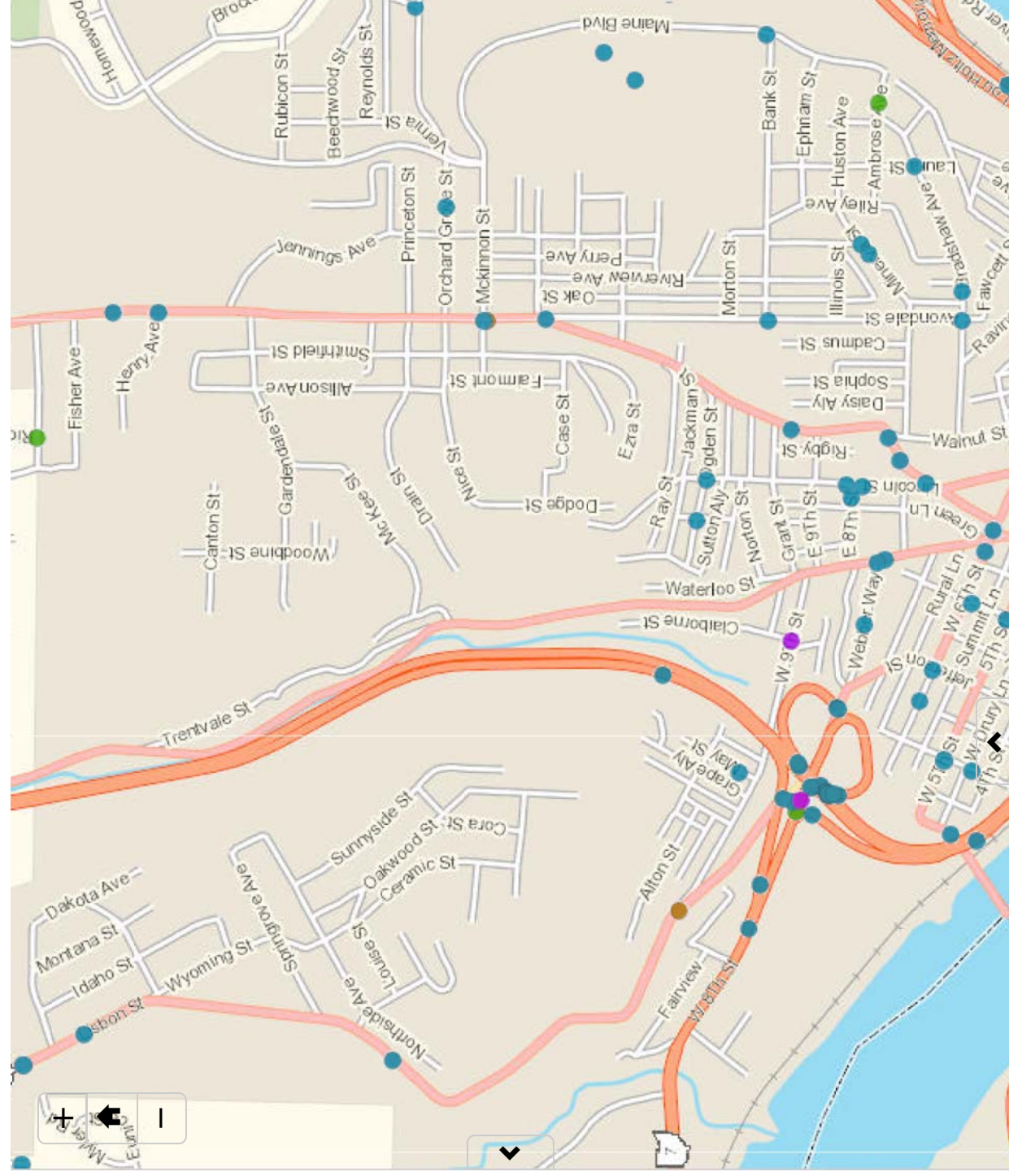
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**2017-2019 CRASH DATA
(OBTAINED FROM ODOT TIMS)**







Layers

Layers

Legend

Legend

Safety

2019 Crash

● PDO / No Injury

● Possible Injury

● Visible Injury

● Serious Injury

● Fatal Injury