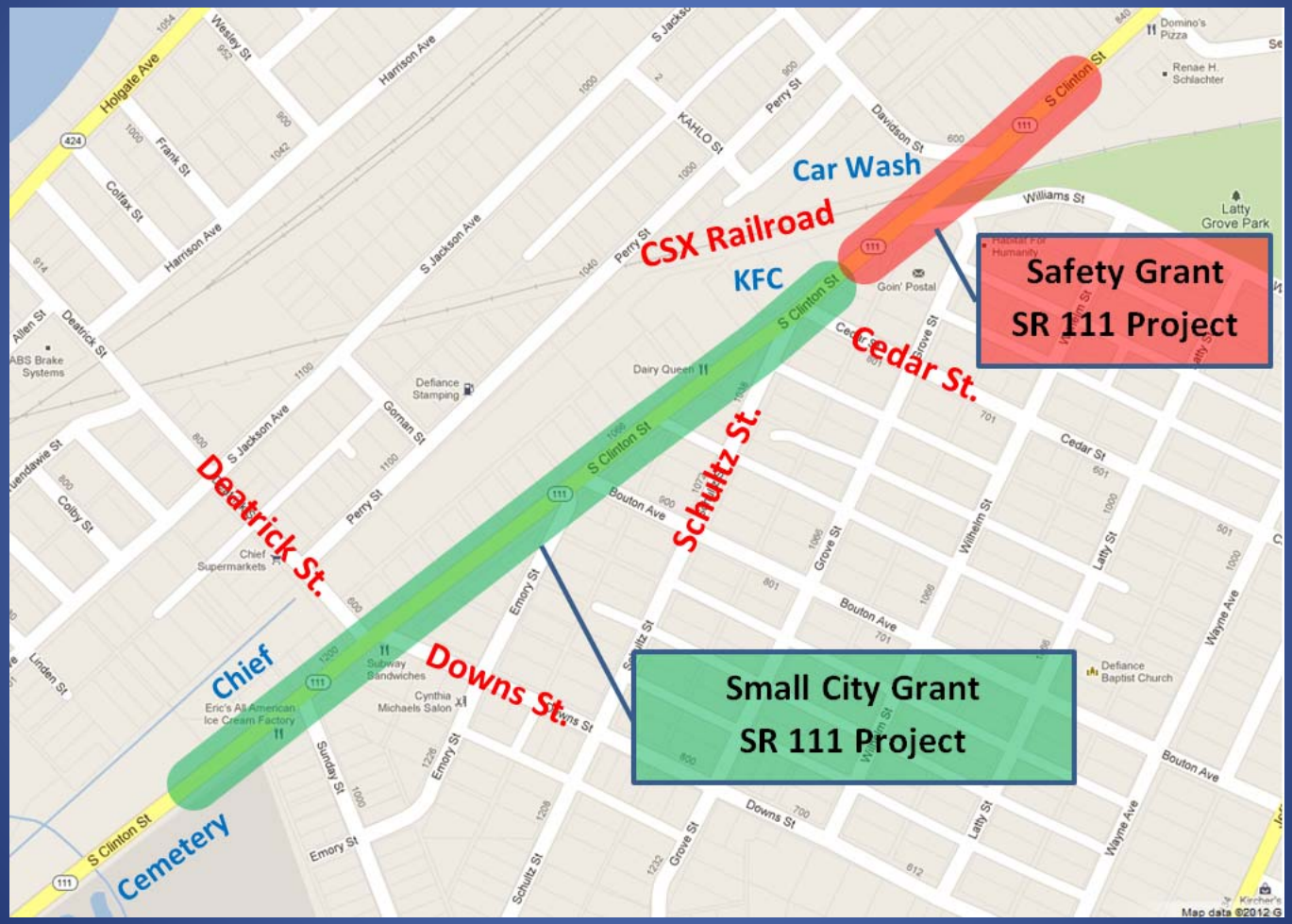
South Clinton Street Projects

DEF-SR 111
Viaduct
Clearance
&
DEF-SR 111
Clinton Street
Improvements

PID 89604 &
PID 92830

The Mannik&Smith Group, Inc.

Project Location



The Mannik&Smith Group, Inc.

Funding Sources

- **$1,189,000 in Small City Funds**
  - traffic calming features and pedestrian facilities
  - Intersection geometric improvements
  - Access management
- **$1,738,000 in Safety Funds (Federal Program)**
  - to be directed at lowering the roadway to address the 78 bridge strikes in the past 10 years;
  - Center pier protection;
  - Sidewalks and access management
- **$200,000 CSX Committed Funds**
- Remaining funds will be **Local Funding** – currently estimated to be **$493,240** (all estimates are preliminary and will be refined as project details progress)

The Mannik&Smith Group, Inc.

Project Purpose

The purpose is to improve safety for all users that will:

- Reduce traffic crashes;
- Eliminate crashes caused by low clearance of viaduct;
- Reduce crashes and traffic flow interruptions from left turning vehicles;
- Upgrade the roadway to current design standards where feasible;
- Improve intersections to reduce intersection crashes;
- Enhance pedestrian facilities to ADA standards

The Mannik&Smith Group, Inc.

Project Needs

Several identified needs have been documented as contributing to the existing crash problems on the South Clinton St. (SR 111) corridor from just south of Sunday Street to approximately Davidson Street:

- Viaduct has an inadequate clearance of 11’-9”;
- Corridor is primarily a 2-lane roadway without left turn lanes;
- Intersections with skewed angles;
- Incomplete or deteriorated sidewalk;
- Poor drainage;
- Excessive drives

The Mannik&Smith Group, Inc.

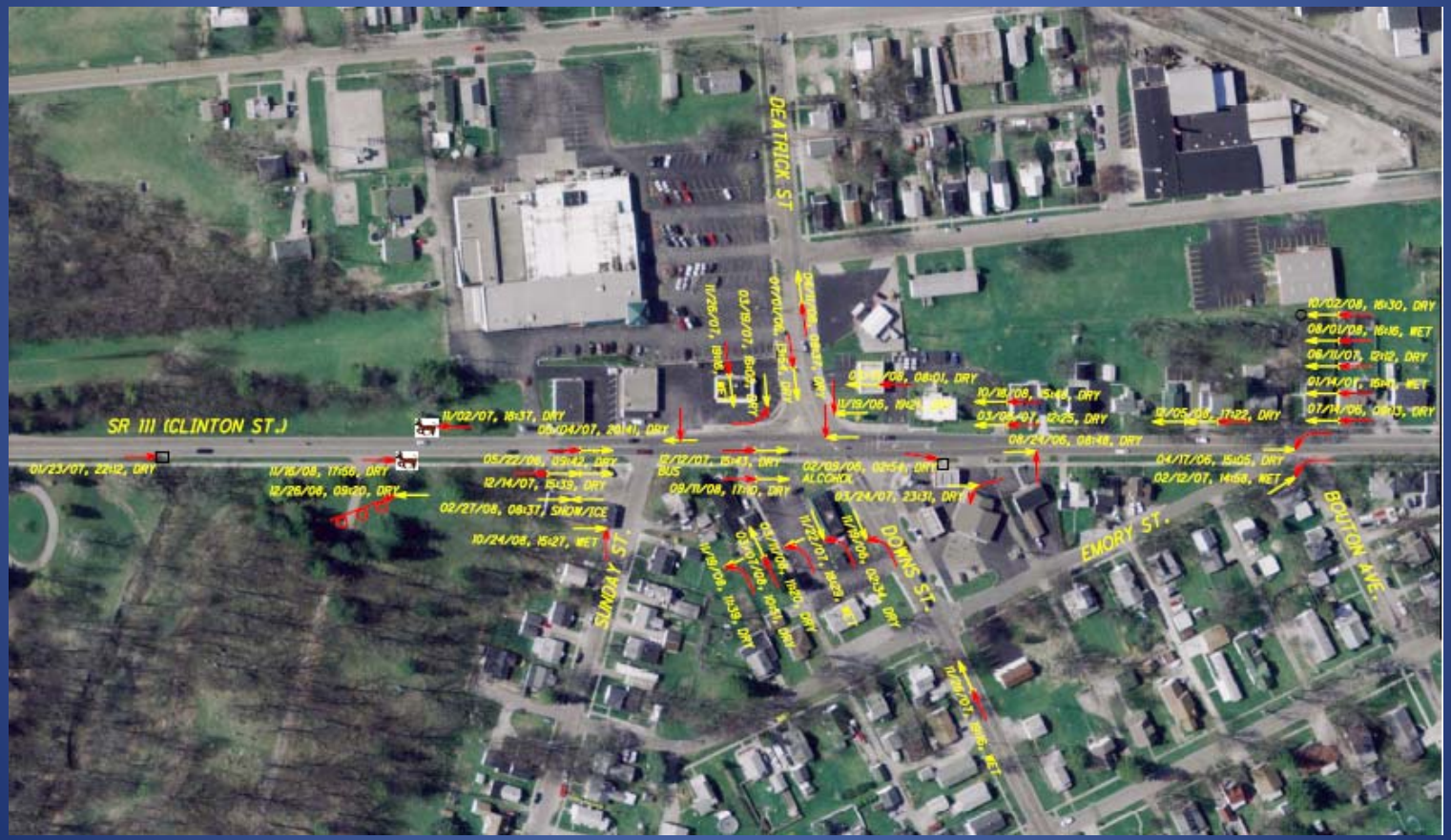
Crash History

- Crashes due to viaduct's low clearance of 11'9" (14'6" desired) and left turning vehicles

The Mannik&Smith Group, Inc.

Crash History

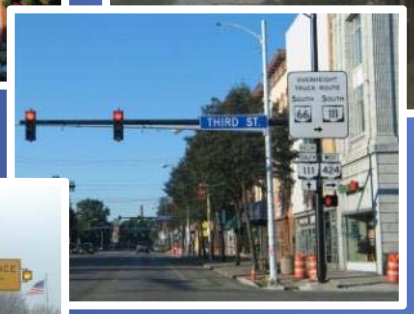
- Crashes from intersections and private drives

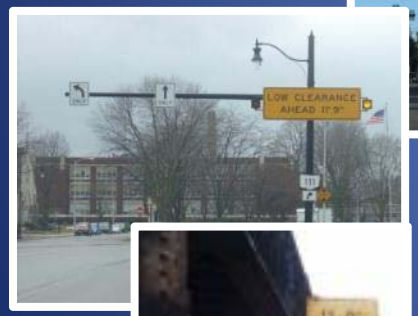


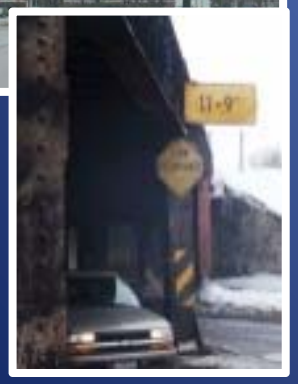
The Mannik&Smith Group, Inc.

Existing Warning Signs

South Bound



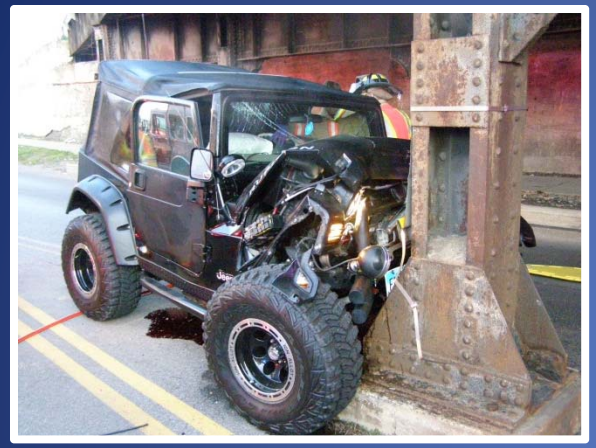




North Bound

The Mannik&Smith Group, Inc.

Safety Concerns



CITY OF DEFIANCE
a great place to live
OHIO

The Mannik&Smith Group, Inc.

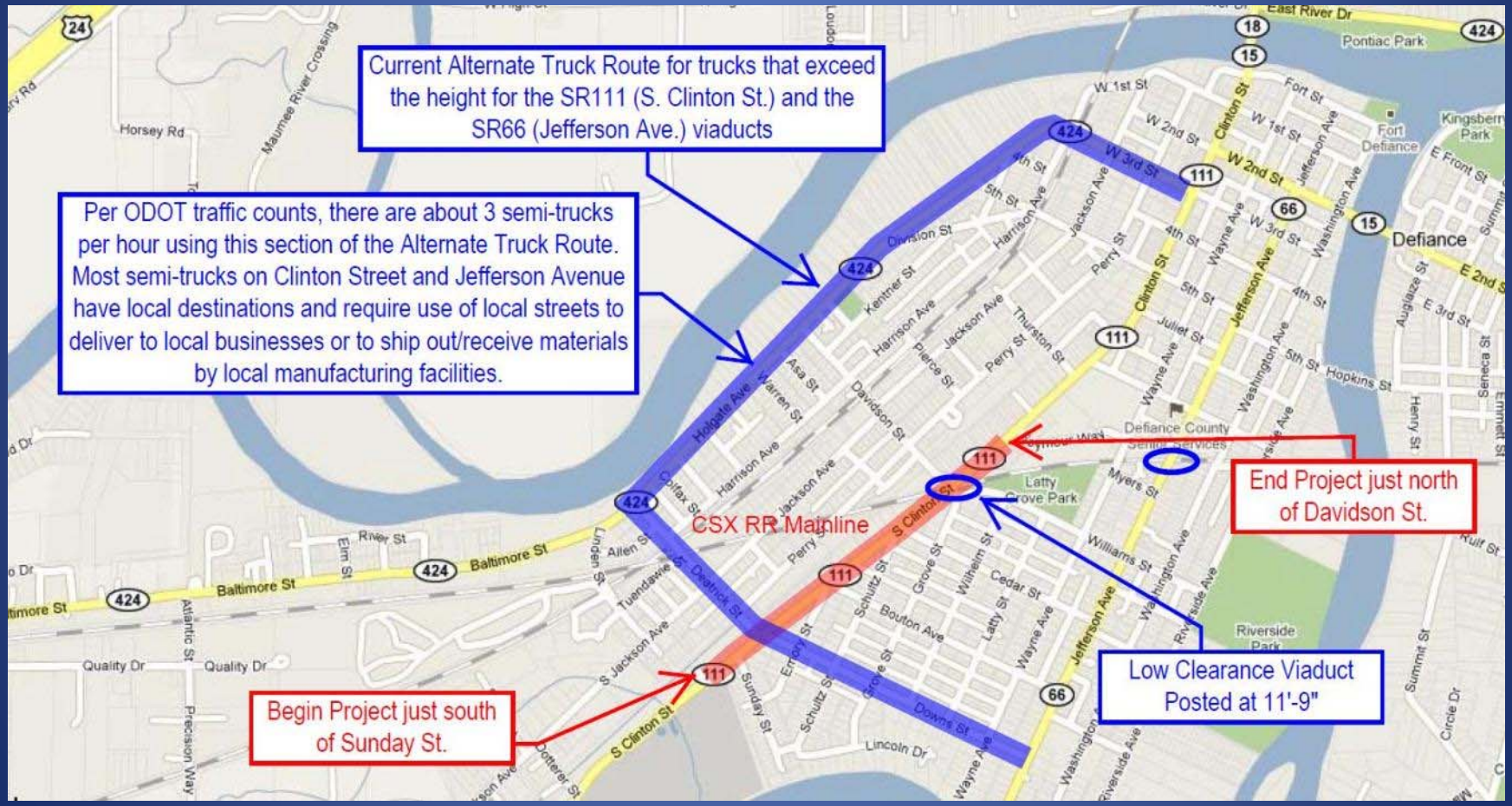
Existing Truck Traffic

- 300 trucks per day (3 axles or more)
- This represents about 10-30 trucks per hour
- Current traffic is 2.69% trucks
- Clinton Street is mix of residential homes, businesses, and does have a school on the corridor
- Improving the vertical clearance will add an estimated 3 semi-trucks per hour (based on number of semi-trucks currently using the Holgate Ave. Alternate Truck Route per ODOT traffic counts)

	SECT. BEGINS	TRAFFIC SECTION	SECT. LENGTH	PASS & A COM'L	B & C COM'L	TOTAL VEH.
		SR-111				
	00.00	PAULDING CO. LINE	2.86	2720	140	2860
	02.86	T-18 (HAMMERSMITH RD.)	1.16	5140	280	5420
U	04.02	S.W. CORP. DEFIANCE	.68	5140	280	5420
U	04.70	POWER DAM RD.	2.07	10850	300	11150
U	06.77	5TH. ST.	.21	15160	420	15580
	06.98	ROUTE ENDS 3RD. ST. IN DEFIANCE	.00			

The Mannik&Smith Group, Inc.

Current Truck Route



The Mannik&Smith Group, Inc.

Engineering Process

Preliminary Engineering

- Public input Kick-Off meeting **(WE ARE HERE)**
- Develop corridor & neighborhood plan
- Conduct data collection, testing, & environmental studies
- Engage CSX – Define objectives and project scope
- Evaluate Structural Options and Limitations
- Evaluate Drainage Options
- Determine Environmental Impacts
- Evaluate and Minimize Right-of-way Impacts
- Evaluate Construction Staging and Maintenance of Traffic Options
- Preliminary Construction Cost Estimates
- Public Meeting to Update Project Progress

Detailed Design Phase (More Public Input)

Right of Way Acquisition

Project Bid Package & Sale

Construction Awarded Begin Project

The Mannik&Smith Group, Inc.

Neighborhood Planning

- Public Involvement is Critical to Success
- Keep Businesses Updated
- Pedestrian Planning
- Side Streets Safety
- Neighborhood Traffic
- Corridor Access Safety

The Mannik&Smith Group, Inc.

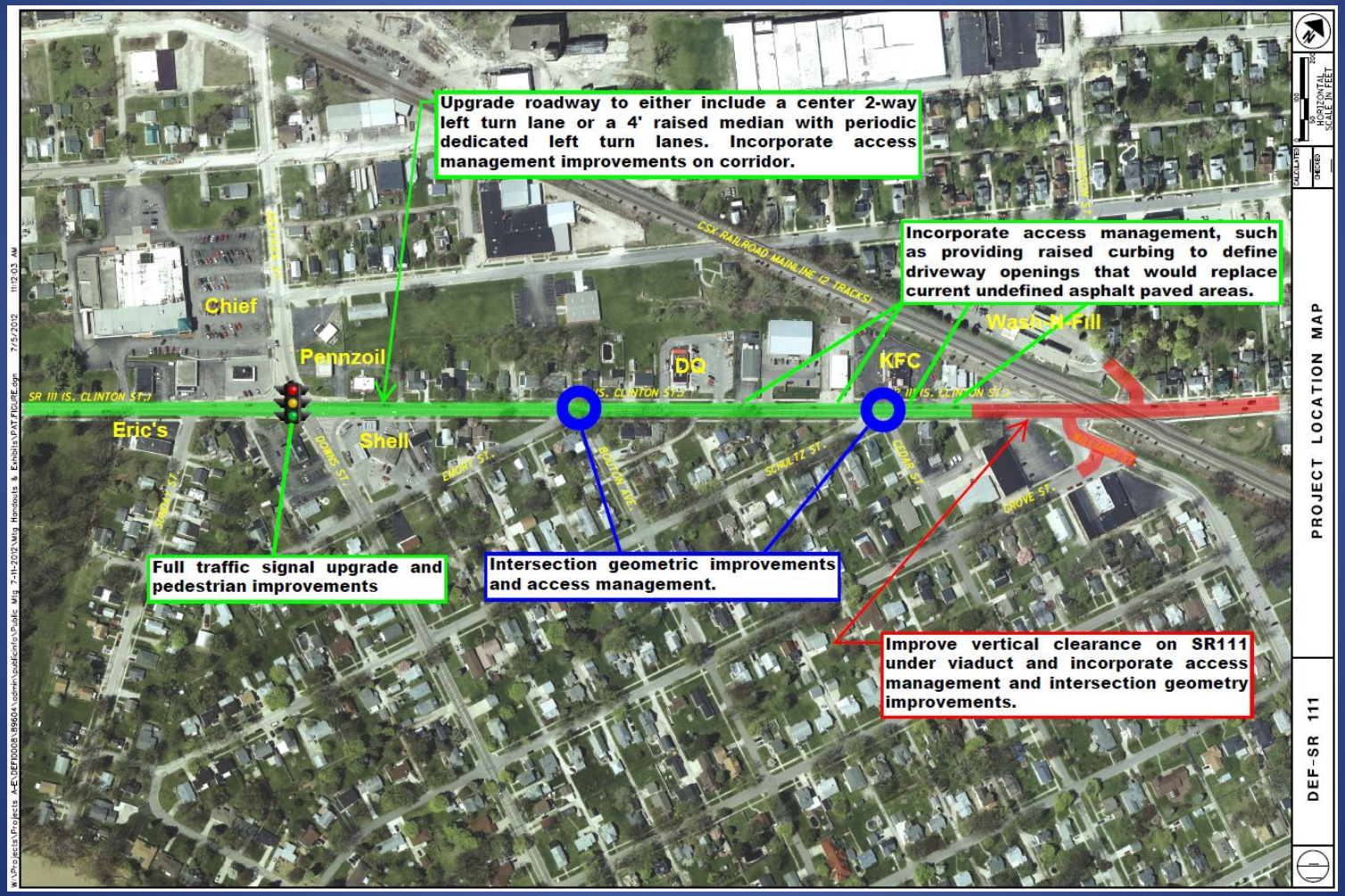
Corridor Conceptual Improvement Options

2-Way Center Turn Lane

Raised Median

The Mannik&Smith Group, Inc.

Corridor Conceptual Improvements



The Mannik&Smith Group, Inc.

Improve Pedestrian Safety

- Roadway Curbing to Create a Barrier between Vehicles and Pedestrians
- Railing between sidewalk and bridge piers
- Evaluate Lighting Ratio under the bridge
- Shorter and Defined Crosswalks
- Sidewalk Grades will be a challenge

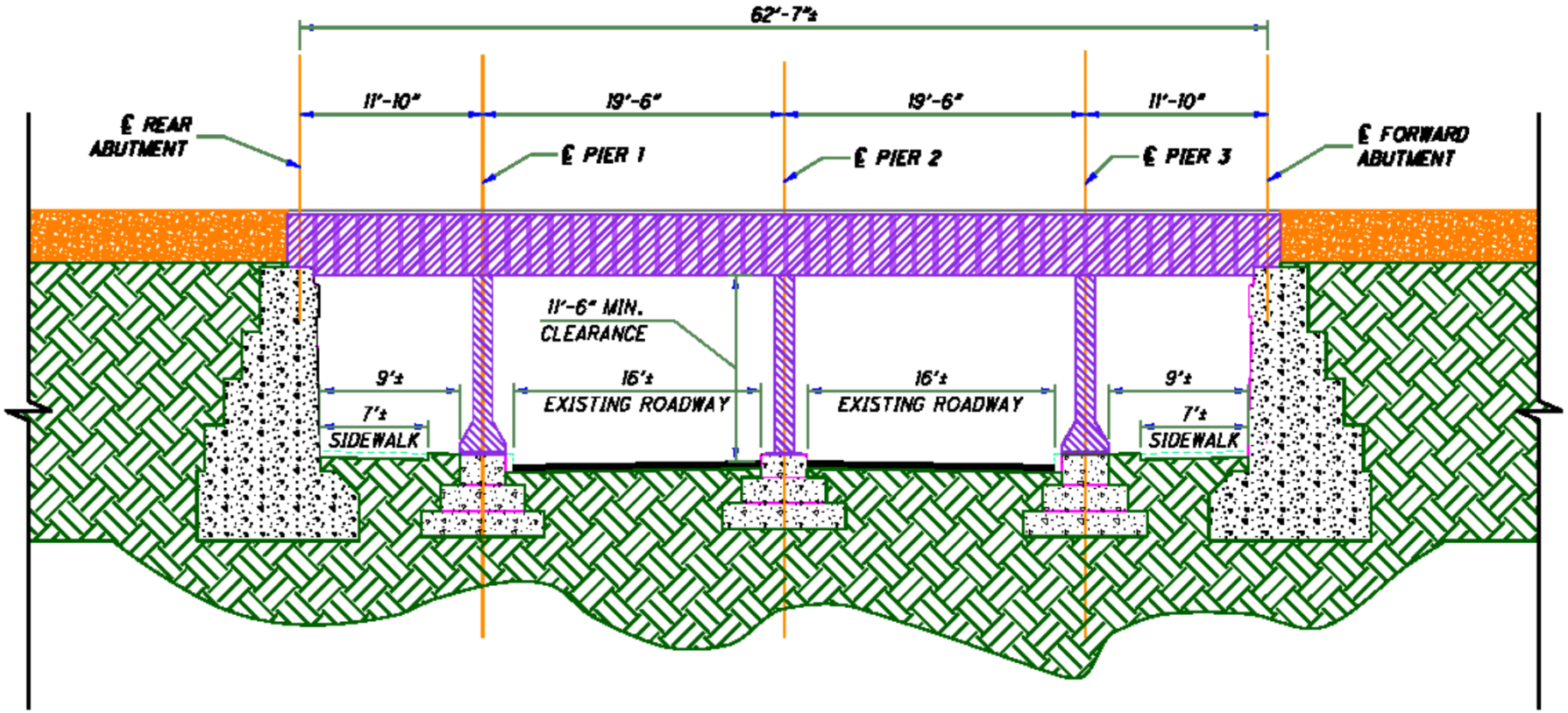
The Mannik&Smith Group, Inc.

Roadway Improvements at Viaduct

- Improve vertical clearance to 14’-6” with lowering of the roadway by approx. 2’-9”;
- Construct center barrier and pier column protection which will also improve vehicular and pedestrian safety;
- Access management

The Mannik&Smith Group, Inc.

SOUTH CLINTON STREET VIADUCT PROJECT



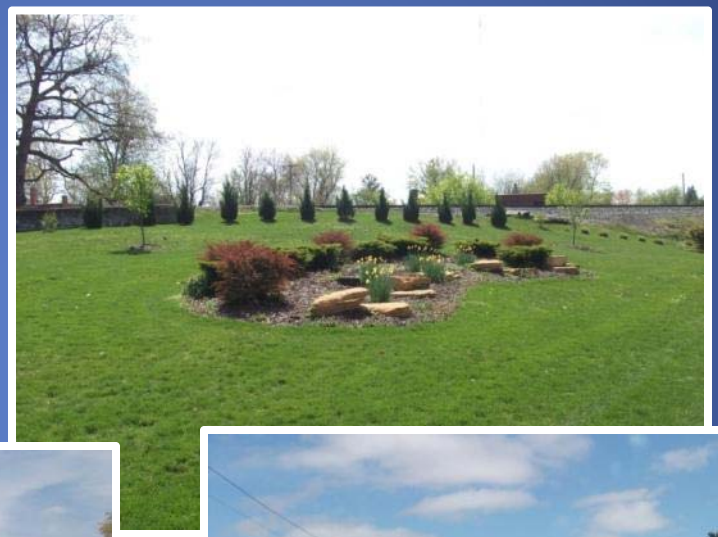
EXISTING BRIDGE ELEVATION

Key Milestone Dates

Phase of Project	Anticipated Completion Dates
Preliminary Engineering	Nov 2012
Environmental Clearance	Jul 2013
Right-of-Way Acquisition	Jan 2014
Detailed Design Package	Feb 2014
Project Sale Date	Apr 2014
Construction Award Date	May 2014

The Mannik&Smith Group, Inc.

Instant Feedback Survey



The Mannik&Smith Group, Inc.