

CUY-490-0.00 TSMO (PID 107408)

A major roadway rehab project is planned for IR-490 in Cleveland, Ohio. Carpenter Marty Transportation was retained to study and investigate Transportation Systems Management and Operations (TSMO) elements to be integrated into the project for safety improvements. The study area roughly includes IR-490 from IR-90 to east of IR-77.

Study Area



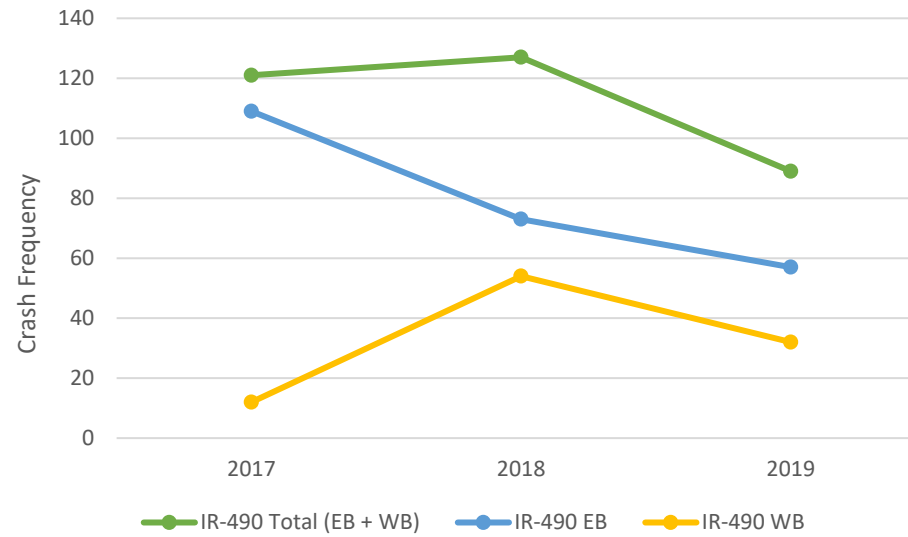
2019 TOAST Scores

(Logpoints) Location	Total	Bottlenecks	Travel Time Performance	Safety Performance	Volume Per Lane	Freight Corridors	Incident Clearance	Secondary Crashes
(0-0.92) IR-490 from IR-90 to W. 7th St.	61.3%	25	14	0	4.5	8	4.5	5.25
(0.92-1.88) IR-490 from W. 7th St. to IR-77	56.5%	25	16	0	4.5	8	0	3
(1.88-2.43) IR-490 from IR-77 to E. 55th St.	66.0%	25	12	0	6	8	7.5	7.5

2025 Traffic Volumes



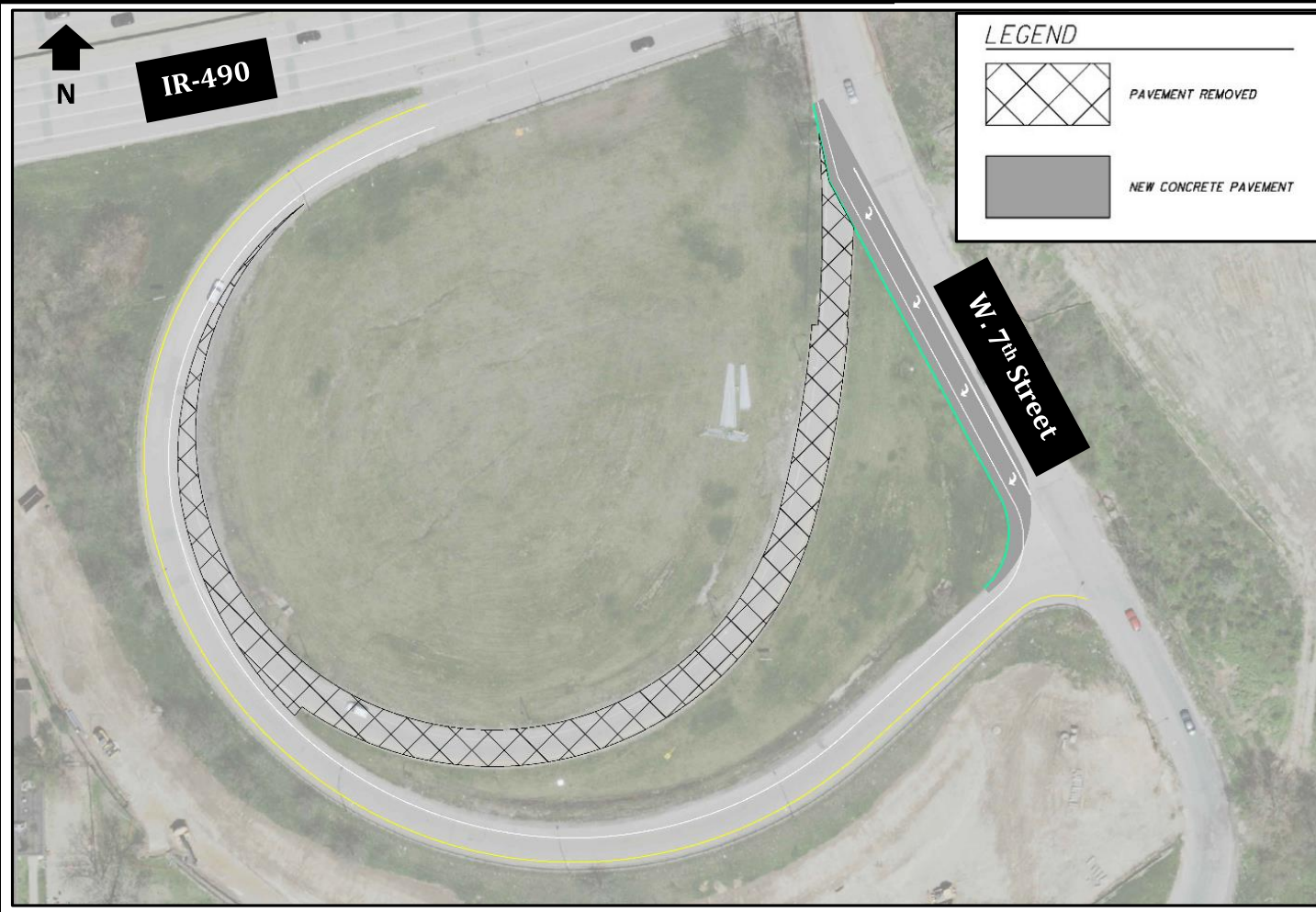
Crashes by Direction per Year



Countermeasures to Consider

- IR-490 mainline vertical clearance
- W. 7th Street entrance ramp realignment and acceleration lane extension
- IR-77 NB/SB ramps dynamic auxiliary lanes to IR-490 WB (designed on a future project)

W. 7th Street Entrance Ramp Realignment



IR-77 NB/SB Ramps Dynamic Auxiliary Lanes to IR-490 WB (designed on a future project)

