



Dakota | Transportation

Memorial Highway Reconstruction Project

Public Input Meeting







TRAFFIC OPERATIONS AND ACCESS MANAGEMENT:

- ~16,000 cars traveled this corridor daily in 2018 and that number is expected to increase to ~23,000 by 2038
- 112 existing access points exist today, and that number could be reduced



ROADWAY CONDITIONS

Existing conditions photos taken in 2018-2019





DRAINAGE CONDITIONS





PEDESTRIAN FACILITIES





TRAFFIC OPERATIONS









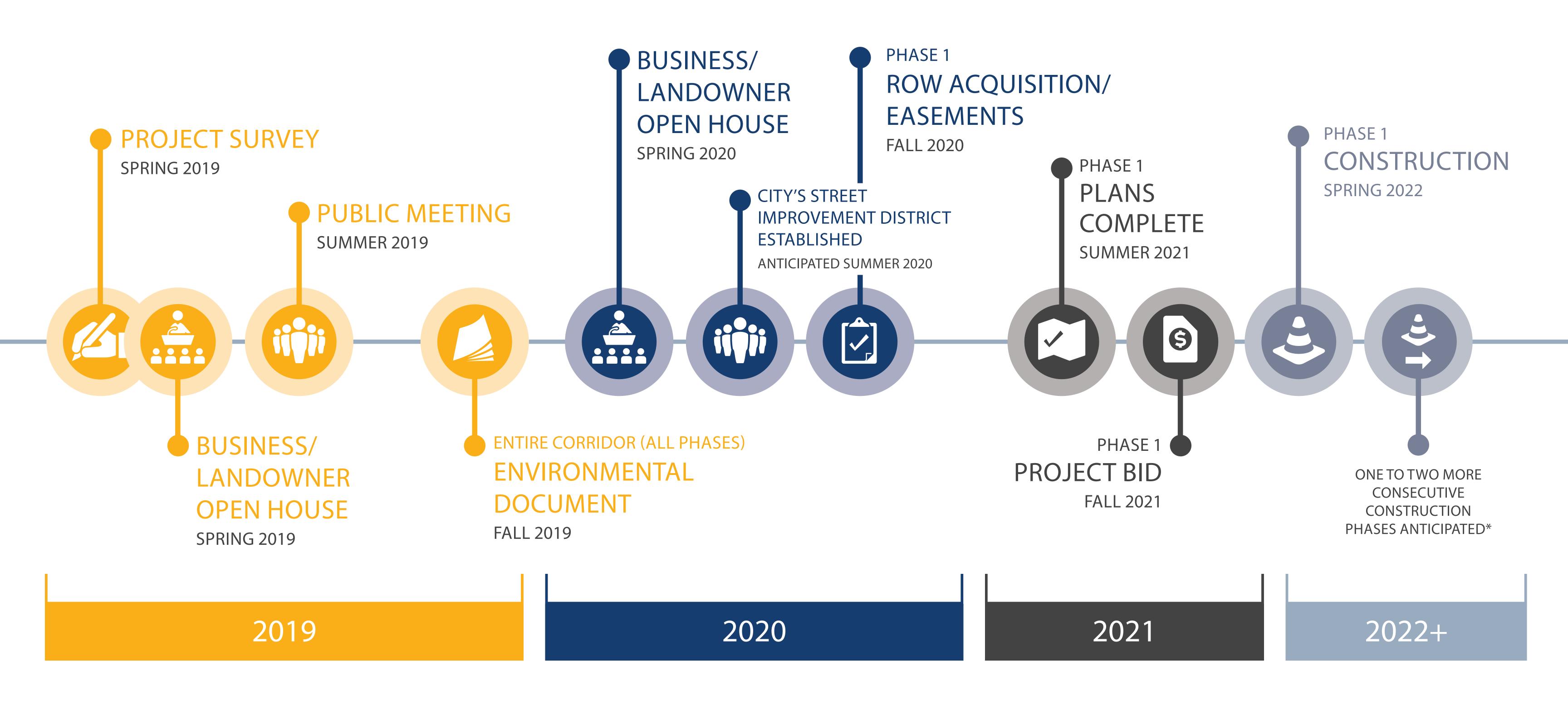
The North Dakota Department of Transportation and the City of Mandan are planning the reconstruction of Memorial Highway between Main Street and 46th Avenue in Mandan. This reconstruction project will improve safety and mobility of the corridor and reduce future maintenance costs. Construction is anticipated to begin in Spring 2022. Key project improvements include:





PRELIMINARY PROJECT SCHEDULE





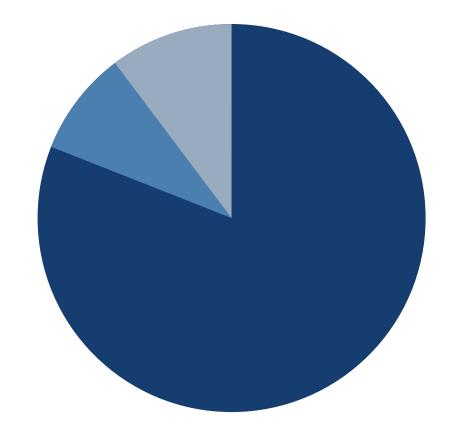
*Project phasing and sequencing will be determined during the preliminary engineering phase











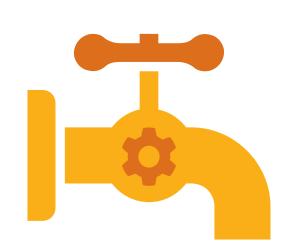
Project Cost Share:

Federal Cost Share: 80.93%

State Cost Share: 9.07%

Local Cost Share: 10%





Additional City of Mandan **Utilities Upgrade Cost**

COST SHARE BREAKDOWN:



FEDERAL COST SHARE



STATE COST SHARE



LOCAL COST SHARE

Roadway & Storm



Water & Sanitary Sewer

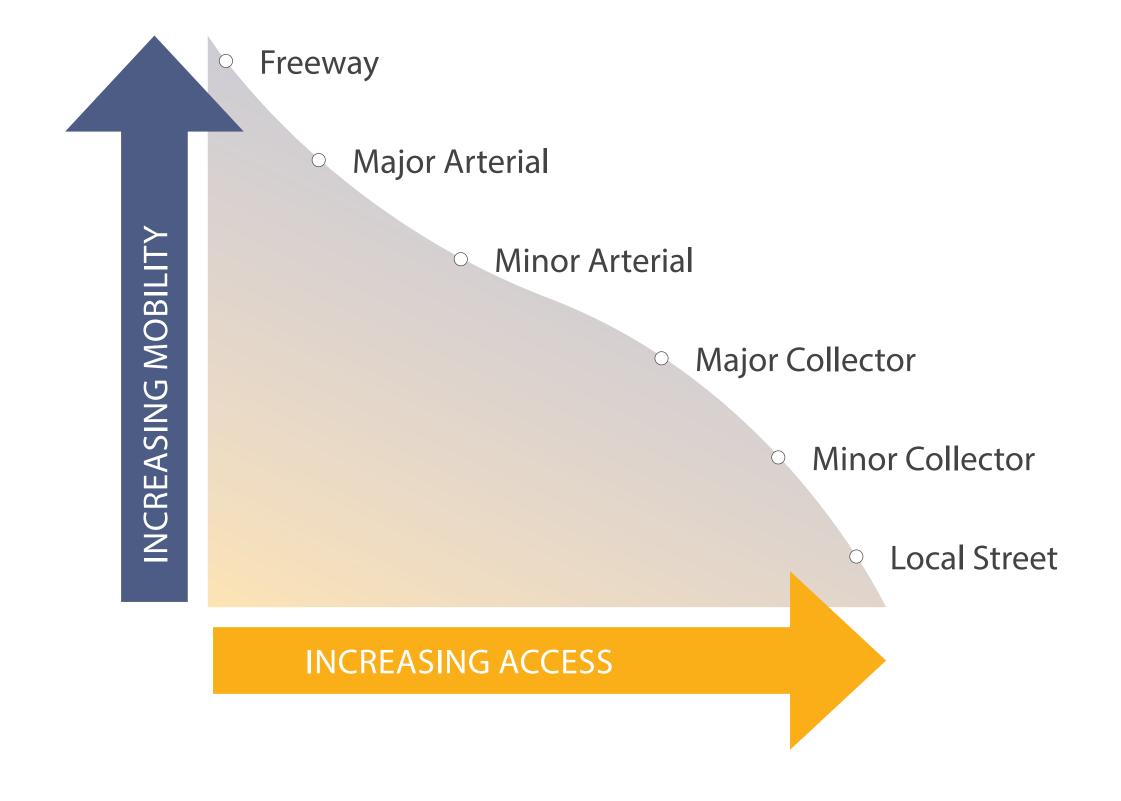
UTILITY COST



ACCESS MANAGEMENT







MEMORIAL HIGHWAY ACCESS:

- 112 access locations were inventoried along Memorial Highway
- From 2016 through 2018, 45 (28%) of the 164 total crashes occurred at mid block locations
- 660 feet is considered adequate access spacing for unsignalized full access crossings on 40 mph minor arterial roadways

Source: Access Management Manual from the Transportation Research Board



PROPOSED ACCESS WIDTHS:

Source: NDDOT Design Manual

10-15 Feet

20-30 Feet

40 Feet

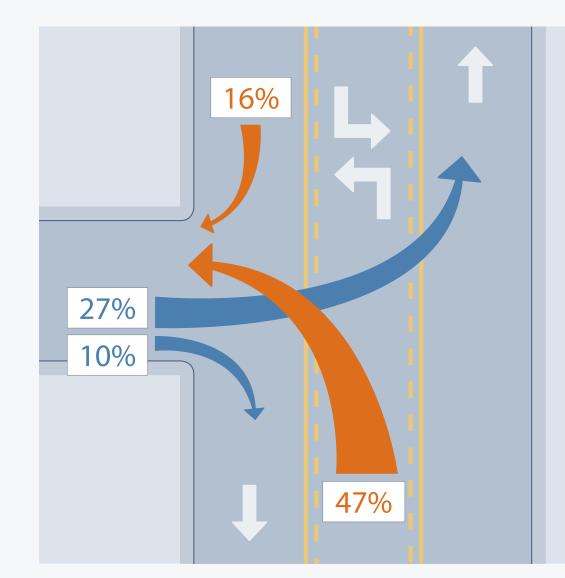
Private Residences

Commercial

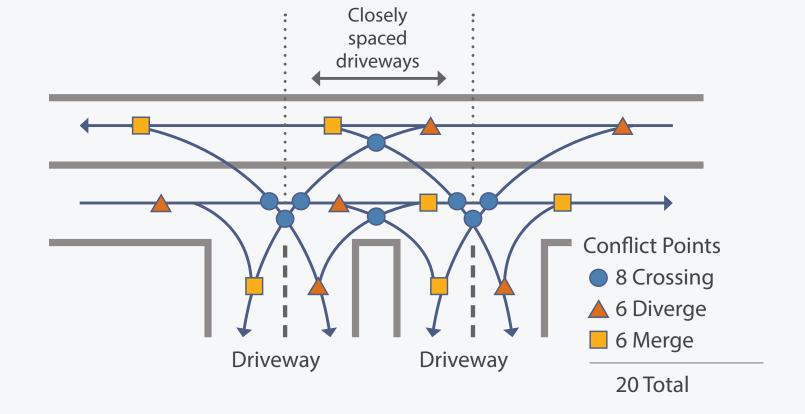
Industrial

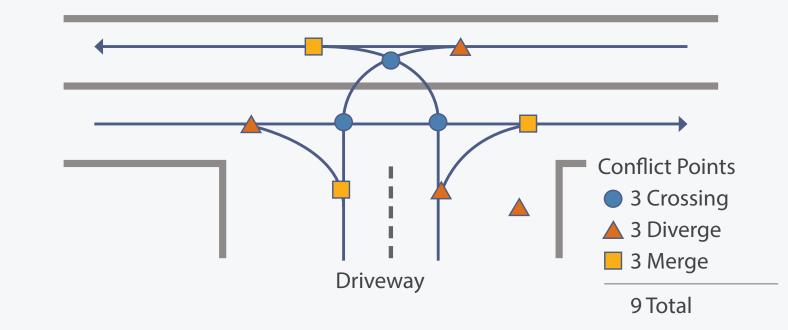
Access management is the programmatic control of the location, spacing, design, and operation of driveways, median openings, interchanges, and street connections to a roadway.

Access management improves safety by separating access points so that turning and crossing movements occur at fewer locations. This allows drivers passing through an area to predict where other drivers will turn and cross, and also provides space to add turn lanes.



Percentage of crashes by driveway movement.



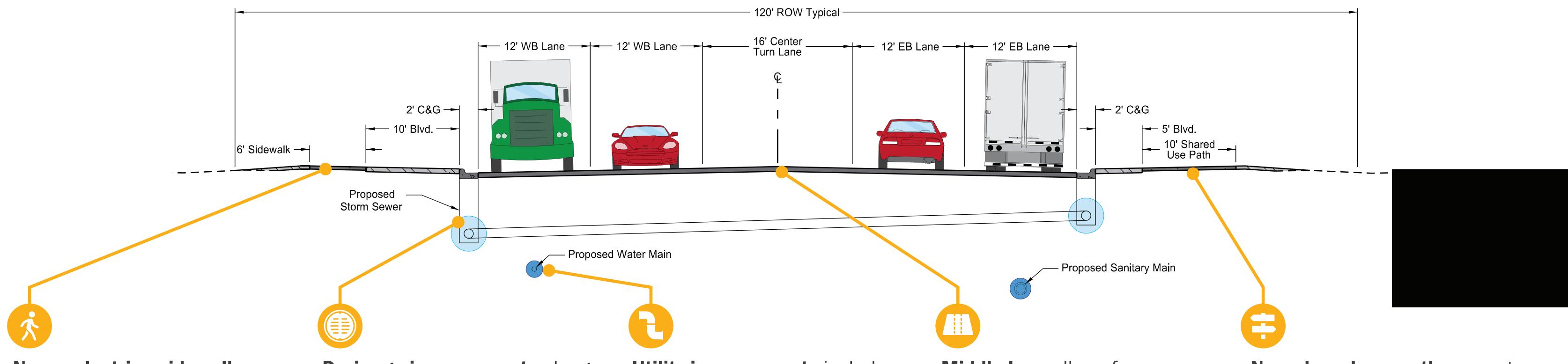


Source: Federal Highway Administration





KEY BENEFITS:



New pedestrian sidewalk on the north side to provide access to businesses and community connections

Drainage improvements along the roadway include a storm sewer system

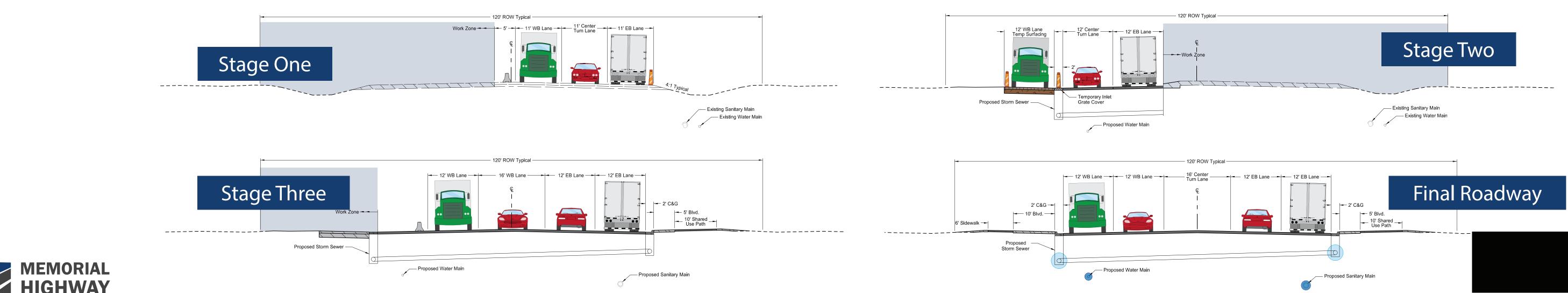
Utility improvements include water main replacement and sanitary sewer rehabilitation

Middle lane allows for access
to businesses and becomes a
median for added safety at the
signalized intersections (including pedestrian safety)

New shared-us
the community
system on the
of the corridor

New shared-use path connects the community to the local trail system on the east and west side of the corridor

CONSTRUCTION STAGING TYPICALS:



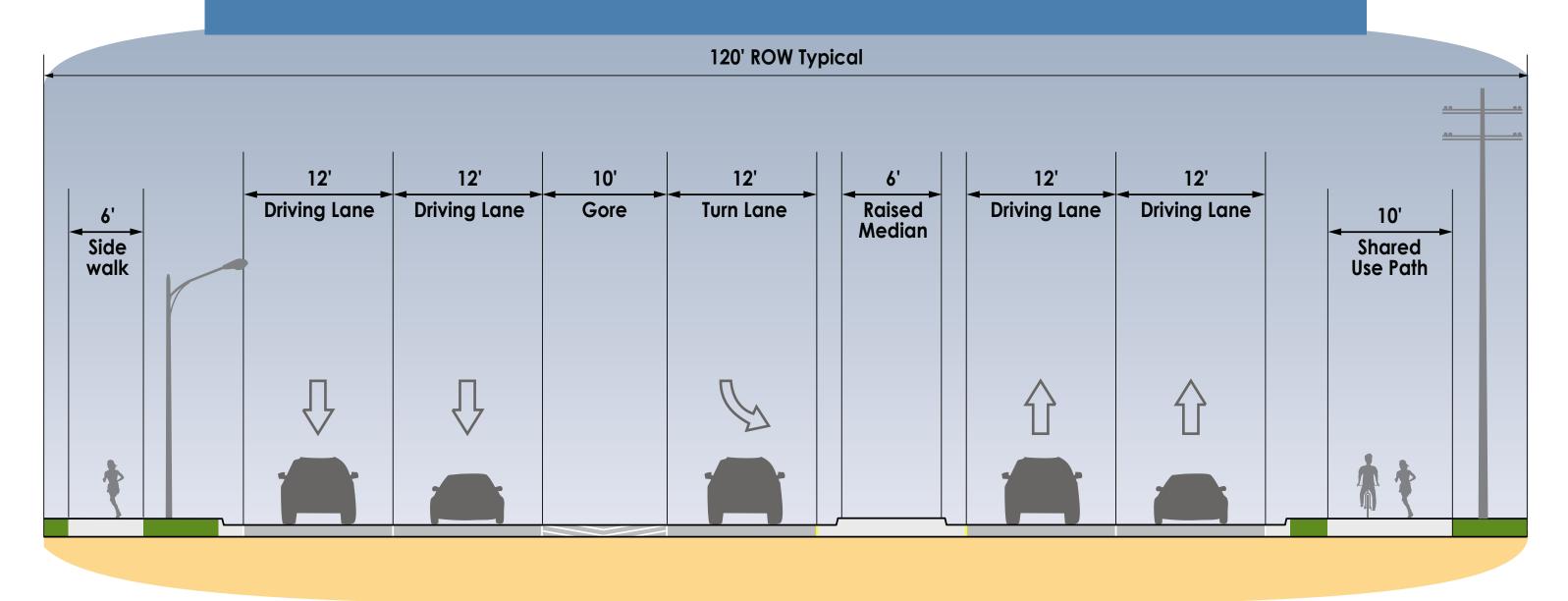


PROPOSED DESIGN

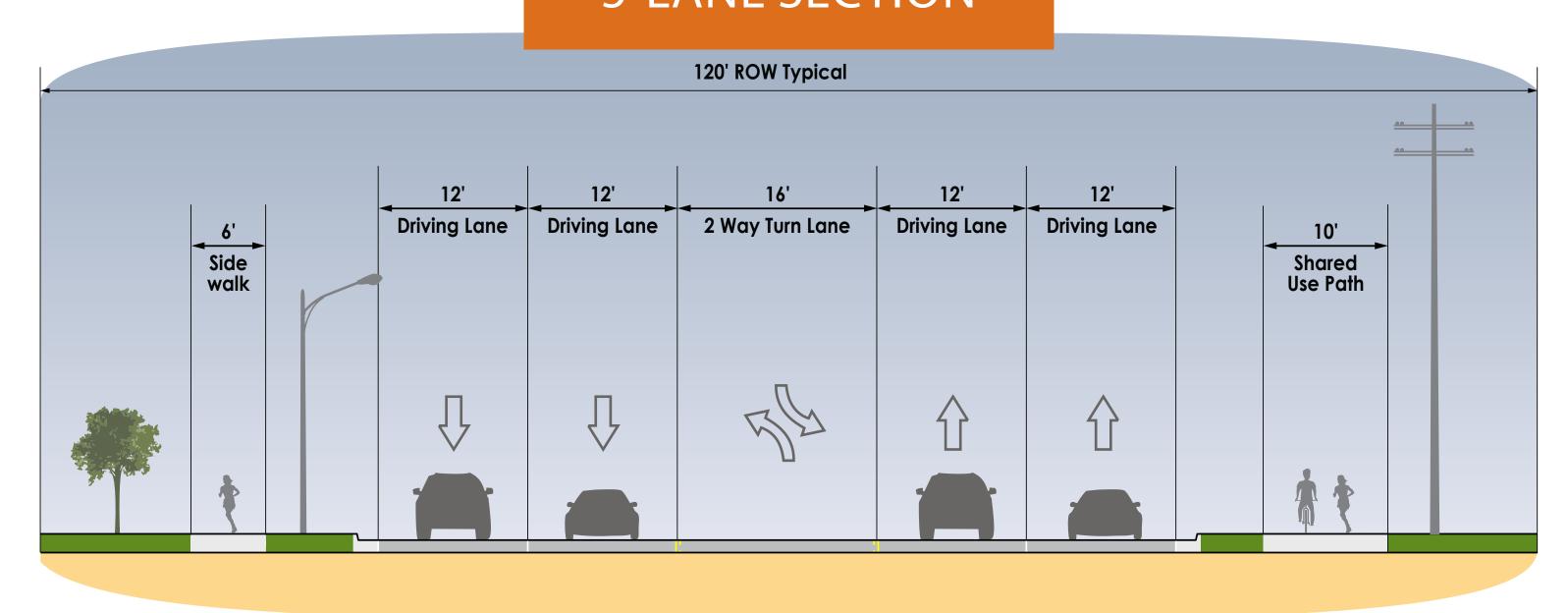




5-LANE SECTION WITH RAISED MEDIAN



5-LANE SECTION



MEMORIAL HIGHWAY LOCATIONS:



