

# one MARYLAND one CENTERLINE

collaborative. authoritative. seamless.

The One Maryland One Centerline (OMOC) Program is a collaborative effort between federal, state, and local entities to create an authoritative, statewide roadway dataset that meets the needs of a diverse community.

## WHAT IS A LINEAR REFERENCING SYSTEM?

A linear referencing system (LRS) is a set of methods for specifying a location as a distance, or offset, along a linear feature (e.g. centerline) from a site with a known location. This ability is made possible through the use of route features that have unique identifiers and a measure system (e.g. distance, time, etc.). The concept is similar to a ruler, in which each tick mark represents a distance from another tick mark for a given unit of measurement.

## MARYLAND STATE HIGHWAY LRS IMPLEMENTATION

The Maryland State Highway Administration's (SHA) LRS is based on county, route and milepoint and uses a distance-based measure system. Distances are measured in 1/1000ths of a mile along a route, beginning and ending at jurisdictional boundaries. For a more accurate measurement, SHA uses driven mileage to calculate the distance of a route.

## HOW DOES MD SHA USE LINEAR REFERENCING?

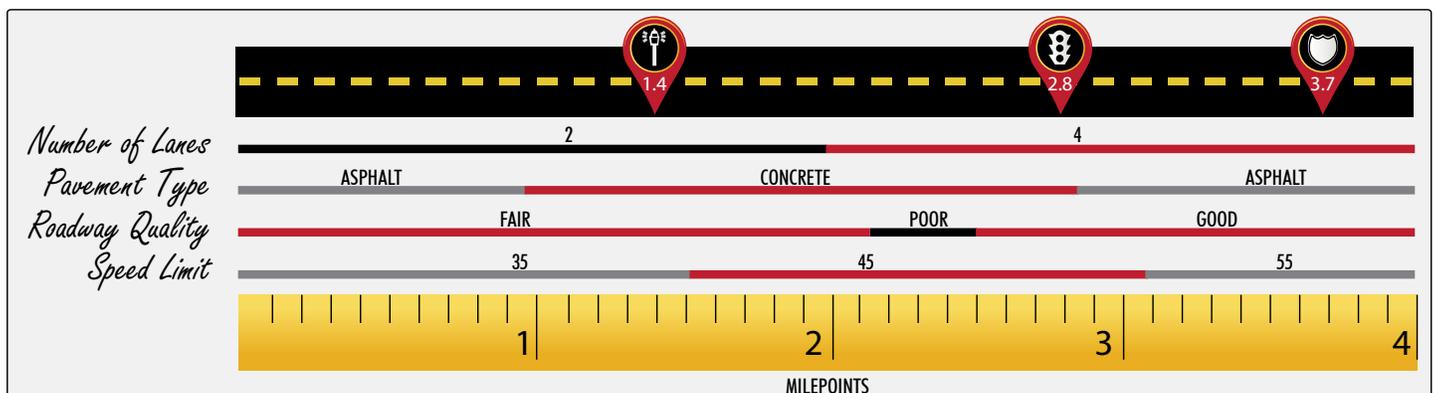
SHA uses linear referencing to manage highway-related assets and roadway characteristics that do not have explicit x,y coordinates. Recording asset location in terms of relative distance along a line allows for multiple sets of overlapping attributes to be assigned roadway measurements without also requiring the roadway feature be segmented where an attribute value changes.

### BENEFITS

Local partners in the OMOC Program will have access to this linear referencing system to manage their own assets and easily exchange data with the state and neighboring jurisdictions.

### DATA INTEGRATION

The use of mile points is crucial to accurately managing the linear characteristics of a highway and locations of associated data, such as pavement type, speed limit, number of lanes, guardrails, roadway quality, signage, crash locations, and light poles.



## CONTACT US



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