



Introduction to the

Maryland Sidewalk Data Collaboration

One Maryland One Centerline (OMOC)
Sidewalk Event Editor

December 2024

Standard Operating Procedure (SOP)



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Version History

Version	Date	Description
1.0	8/27/2024	PRE-PUBLICATION: ORIGINAL DOCUMENT CREATION
1.1	9/3/2024	PRE-PUBLICATION: ADDITION OF CENTERLINE OVERVIEW
1.2	10/4/2024	PRE-PUBLICATION: ADDITIONAL GUIDANCE FOR ADDING A SIDEWALK ATTRIBUTES "RHAS" FILE FOR IMPROVED EASE OF DATA ENTRY
1.3	12/6/2024	PRE-PUBLICATION: FORMATTING

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Introduction

Purpose

This document provides a basic overview of the process for referencing pedestrian infrastructure data to [One Maryland One Centerline](#) (OMOC) using the OMOC Sidewalk Event Editor, accompanying training provided by the Maryland Department of Transportation (MDOT) State Highway Administration (SHA). For more information, contact Francine Waters, Multimodal Transportation Project Specialist: fwaters@mdot.maryland.gov.

The OMOC Sidewalk Event Editor facilitates the documentation of pedestrian infrastructure consistent with a schema developed by the Maryland Sidewalk Data Collaboration, a partnership between agencies and jurisdictions throughout Maryland. The data schema facilitates the uniform organization of data, in this case across a multitude of jurisdictions in Maryland. This structure for the consistent documentation of pedestrian infrastructure facilitates:

- Holistic descriptions of the pedestrian environment, scalable to meet the needs of various users, within OMOC.
- Multi-modal network analyses, which inform work to understand the accessibility of destinations throughout Maryland.

While this guide does not prescribe processes for jurisdictions to use in collecting data on pedestrian infrastructure, it describes workflows for documenting pedestrian infrastructure in situations both with and without existing data. Specifically, the OMOC Sidewalk Event Editor allows jurisdictions to add existing geospatial data to the application for reference in populating the schema¹; in cases where no data exists, the OMOC Sidewalk Event Editor contains aerial imagery for users to reference in documenting the presence of sidewalks.

For step-by-step instructions on the process for pedestrian infrastructure data entry, skip ahead to **Access the OMOC Sidewalk Event Editor** For details on the various functions within the OMOC Event Editor, see **Appendix: OMOC Event Editor Quick Reference**.

¹ For assistance with this process, contact John Beall, State and Local Systems Team Leader: jbeall@mdot.maryland.gov.

Sidewalk Data Schema

The schema includes four event tables: sidewalks, curb cuts, obstructions, and crossings. Attributes describe each event type based on guidance and best practices identified through research and interviews. Many attributes provide information pertinent to Public Right-of-Way Accessibility Guidelines (PROWAG) and Maryland's accessibility requirements (e.g., pedestrian signals, slope, and width); in these cases, the schema reflects the thresholds established by these standards. For example, users input cross slope as either acceptable (<2 %) or unacceptable (>2%), relative to SHA guidance.

PRIORITIZATION AND TIERS

To address disparities in resource availability to collect and maintain pedestrian infrastructure data, the schema groups attributes into tiers. This provides an easily understood prioritization, clearly indicating which attributes are most crucial if forced to scale collection due to resource constraints. While all attributes in **Tier One** are necessary for network analyses, attributes in **Tier Two** and **Tier Three** are not essential for basic network analyses.

Tier One: Core Attributes

Tier One includes the minimum amount of data needed for inclusion in the OMOC. The variables included mainly pertain to the presence or absence of a pedestrian facility with almost no other information.

Tier Two: Advanced Attributes

Tier Two adds more attributes to describe pedestrian infrastructure. Jurisdictions that opt to include Tier Two attributes will document the width, slope, buffer presence, and other attributes related to the sidewalk segment. Tier Two also introduces attributes describing pedestrian crossings and curb cuts.

Tier Three: Accessibility Attributes

Tier Three includes even more detailed information to describe the accessibility of sidewalks. These attributes require more resources to gather and may require in-person verification (e.g., sidewalk condition, obstruction attributes). This tier also includes the obstructions event type, which documents any objects that violate accessibility guidelines (e.g., too narrow or not enough vertical clearance).

SIDEWALKS

Sidewalks are documented as line events, with attributes that describe their presence and form. Despite the name of this table, this table encompasses all standalone, linear pedestrian infrastructure. Add sidewalks to this table by noting the start and end (relative to OMOC centerlines) in the OMOC Sidewalk Event Editor (detailed later in this document); in the case of standalone sidewalks, new centerlines will be created to reference sidewalk features against. This event type has attributes in all three tiers; **Table 1** describes sidewalk attributes by tier.

Table 1: Sidewalk Attributes

TIER	FIELD	DESCRIPTION AND DOMAINS
TIER ONE	sidewalk_type	<p>Describes whether the sidewalk is adjacent to a roadway.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Adjacent to roadway ■ Not adjacent to roadway ■ Null [DEFAULT]
	side_of_roadway	<p>Identifies if segment is located on the left or the right side of the route.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Left ■ Left and Right ■ Right ■ Shared-Use Path ■ Null [DEFAULT]
	relational_id	<p>Allows jurisdictions to relate the feature and attributes to a source they manage.</p> <p>Manual Entry</p>
	sidewalk_collection_source	<p>Records the method used to document the sidewalk (e.g., field collection or imagery trace).</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Field Collection ■ Imagery ■ OpenStreetMap ■ Existing Data ■ Other ■ Null [DEFAULT]
	sidewalk_collection_date	<p>Records the date the sidewalk was documented, not the date it was added to OMOC.</p> <p>MM/DD/YYYY</p>
	status	<p>Facilitates the tracking of projects throughout the planning, design, and construction process.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Planning ■ Design ■ Construction ■ Present [DEFAULT]

TIER TWO	maintenance_authority	<p>Documents the party responsible for sidewalk maintenance, for example, local municipality, State Highway Administration, or private landowner.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ State ■ County ■ Municipal ■ Private ■ Other ☒ Null [DEFAULT]
	width_category	<p>Documents whether a sidewalk's width meets federal and/or state guidance.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ <4' – Does not meet federal guidance ■ 4'-5' – Meets federal but not state guidance ■ 5'-8' – Meets state guidance in a constrained environment ■ 8'+ - Exceeds state guidance ■ Null [DEFAULT]
	width_value	<p>Documents sidewalk width. If the user prefers, they may enter the precise width of the sidewalk feature in order to derive the width category value.</p> <p>Manual Entry</p>
	running_slope_category	<p>Running Slope Category can either be entered by the user or derived (calculated) from running_slope_value. Slope is defined as rise over run; i.e., 1 inch rise: 12 inch run = 8.33% slope. If desired, cross slope is collected in Tier Three.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ <5% - Below Federal Guidance; Permitted ■ 5 to 8.33% - Exceeds federal guidance except in constrained spaces ■ >8.33% - Exceeds all federal guidance ■ Null [DEFAULT]
	running_slope_value	<p>This is a continuous variable for the slope of sidewalk segment. If the user prefers, they may enter the precise slope of the sidewalk feature in order to derive the slope category value. Slope is defined as rise over run, i.e., 1 inch rise: 12 inch run = 8.33% slope. If desired, cross slope is collected in Tier Three.</p> <p>Manual Entry</p>
	buffer_present	<p>Qualitative assessment of buffer material.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Grassy median ■ Patterned concrete pad ■ Brick ■ Other ■ Null [DEFAULT]
	buffer_width	<p>Identifies whether or not the buffer, if present, meets Maryland requirements.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ 0 - None ■ 0-3' – Below state minimum ■ >3' – Meets state minimum ■ Null [DEFAULT]

	parking_adjacent	Identifies whether street parking exists between the sidewalk and street centerline. Domain: <ul style="list-style-type: none"> ■ Parking present – Off-peak only ■ Parking present – All Day ■ Parking present – Peak only ■ No parking ■ Null [DEFAULT]
TIER THREE	material	Primary material used in sidewalk construction. Domain: <ul style="list-style-type: none"> ■ Asphalt ■ Concrete ■ Brick ■ Cobblestone ■ Null [DEFAULT]
	condition_category	Evaluation of the sidewalk condition. Optionally, use condition_notes to record additional detail. Users should relate the local condition categories or measures to the MDOT designated categories. Domain: <ul style="list-style-type: none"> ■ Good – 0 to 2 issues ■ Fair – 3 to 5 issues ■ Poor – 6 or more issues found ■ Null [DEFAULT]
	date_of_construction	Stores the year and month that the sidewalk segment was initially constructed. MM/DD/YYYY
	date_last_condition_score	Date of the most recent update to the sidewalk condition score. This helps users determine the relevance of the condition score and facilitates planning for updates. MM/DD/YYYY
	condition_notes	Provides a means of supplementing information in the condition_category field. Manual Entry
	cross_slope_category	Either entered by the user or derived (calculated) from cross_slope_value. Represents the rate of change in height of the sidewalk in the direction perpendicular to direction of travel. Slope is defined as rise over run; i.e., 1 inch rise: 12 inch run = 8.33% slope. Domain: <ul style="list-style-type: none"> ■ <2% - Acceptable – Below or equal to the SHA Threshold ■ >2% - Unacceptable – Above the threshold ■ Null [DEFAULT]
	cross_slope_value	A continuous variable for the cross slope of sidewalk segment. Manual Entry

CROSSINGS

Crossings are documented as point events, with attributes that facilitate the modeling of street/centerline crossings that connect sidewalk segments to one another. Crossings are only documented within Tiers

Two and Three. This table also allows jurisdictions to record details about signal infrastructure related to PROWAG. **Table 2** describes crossing attributes by tier.

Table 2: Crossing Attributes

TIER	FIELD	DESCRIPTION
TIER TWO	crossing_type	Indicates the type of crossing. Domain: <ul style="list-style-type: none"> ■ Conventional crosswalk ■ Diagonal crosswalk ■ Raised crosswalk ■ Pinch point or yield crosswalk ■ Other ■ Null [DEFAULT]
	markings	Identifies the type of markings painted on the ground to identify a crosswalk. Some crossings may have no markings or only signage. Domain: <ul style="list-style-type: none"> ■ No Markings ■ Basic/traverse – two solid transverse lines perpendicular to the direction of vehicle travel ■ Double paired – closely-spaced pairs of lines parallel to the direction of vehicle travel (also known as a “bar pair” or “piano” design) ■ Longitudinal bar – wide, evenly-spaced lines parallel to the direction of vehicle travel (also known as a “continental” or “zebra” design) ■ Perpendicular bar – a combination of transverse and longitudinal markings (also known as a “ladder” design) ■ Diagonal – like perpendicular bar but perpendicular lines are diagonal ■ Artistic/decorative ■ Other ■ Null [DEFAULT]
	ped_cross_signal	Identifies whether or not pedestrian signals are present at the crossing. Domain: <ul style="list-style-type: none"> ■ Yes – Pedestrian signal exists ■ No – Unsignalized Crossing ■ Null [DEFAULT]
	crossing_collection_source	Records the method used to document the crossing (e.g., field collection or imagery trace). Domain: <ul style="list-style-type: none"> ■ Field Collection ■ Imagery ■ OpenStreetMap ■ Existing data ■ Other ■ Null [DEFAULT]
	crossing_collection_date	Records the date the crossing was documented, not the date it was added to OMOG. MM/DD/YYYY

TIER THREE	ped_signal_type	<p>Describes the type of pedestrian signal present.</p> <p>DOMAIN:</p> <ul style="list-style-type: none"> ■ Pedestrian hybrid beacon ■ Pedestrian signal head ■ Null [DEFAULT]
	ped_signal_actuation	<p>Indicates whether signal is actuated by a pedestrian input or pre-timed signal cycle.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Pedestrian-actuated ■ Timed ■ Null [DEFAULT]
	audible_ped_signal	<p>Notes the presence of an audible indicator of when it is safe to cross.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Yes ■ No ■ Null [DEFAULT]
	locator_tone	<p>Notes the presence of locator tone. Typically emanating from the push-button housing, a push-button locator tone indicates to pedestrians that they are expected to push a button to request a pedestrian phase.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Yes ■ No ■ Null [DEFAULT]
	vibro_tactile_alert	<p>Indicates if the pedestrian signal button vibrates when it is safe to cross.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Yes ■ No ■ Null [DEFAULT]
	ped_sig_distance	<p>Indicates distance between the pedestrian walk button and curb.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Compliant - <=5 feet from curb ramp Left and Right ■ Noncompliant - 5+ feet from curb ramp ■ Null [DEFAULT]
	signal_button_height	<p>The height of the crossing signal button relative to the sidewalk surface.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Compliant - <=36 inches ■ Noncompliant - 36+ inches ■ Null [DEFAULT]

CURB CUTS

Curb cuts are documented as point features representing a break in the sidewalk. This table allows jurisdictions to define the type and form of curb cuts, providing valuable insight into compliance with ADA guidance. Curb cuts only have Tier Three attributes, described in **Table 3**.

Table 3: Curb Cut Attributes

TIER	FIELD	DESCRIPTION
TIER THREE	cut_presence	<p>Categorical variable that identifies the type of curb cut. The creation of a crossing generates two cut features (one for each sidewalk_id involved in the crossing); where no cut is present (i.e., no ramp to transition grade), set this field to Missing [DEFAULT].</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Missing ■ Present ■ Null [DEFAULT]
	ramp_slope_category	<p>Either be entered by the user or derived (calculated) from ramp_slope_value. Slope is defined as rise over run; i.e., 1 inch rise: 12 inch run = 8.33% slope.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ <= 2% - Acceptable ■ > 2% - Unacceptable ■ Null [DEFAULT]
	ramp_slope_value	<p>This is a continuous variable for the ramp slope, facilitating a derived (calculated) ramp_slope_category value. Slope is defined as rise over run; i.e., 1 inch rise: 12 inch run = 8.33% slope.</p> <p>Manual Entry</p>
	cut_width_category	<p>Either entered by the user or derived (calculated) from Cut_Width_Value. Ramp_Width_Category is based on accessibility measures established by state and federal regulations. See justification for domains below.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ 0 to <4 - Unacceptable ■ 4 to <5 - Acceptable in certain circumstances ■ 5+ - Acceptable ■ Null [DEFAULT]
	cut_width_value	<p>The width of the cut parallel to the roadway, excluding the curb. This continuous variable indicates the width of the curb cut. A value in this field generates a derived (calculated) Cut_Width_Category value.</p> <p>Manual Entry</p>
	landing_pad	<p>Documents the presence and size of the level area at the top of the ramp where pedestrians can transition to/from the ramp. This field only applies to intersection curb cuts.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ None ■ 60"+ - Acceptable ■ <60" - Unacceptable ■ Null [DEFAULT]

	ramp_transition	<p>Indicates if the transition from ramp to crosswalk is smooth or if there is a detectable lip at the ramp gutter.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Yes ■ No ■ Null [DEFAULT]
	dws_present	<p>Indicates the presence of a Detectable Warning Surface (DWS). A DWS is a surface with a distinct difference in color and texture from the surrounding path. A DWS helps people with visual impairments identify the presence of an intersection crossing.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Yes ■ No ■ Null [DEFAULT]
	cut_collection_source	<p>Records the method used to document the curb cut (e.g., field collection or imagery trace).</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Field collection ■ Imagery ■ OpenStreetMap ■ Existing data ■ Other ■ Null [DEFAULT]
	cut_collection_date	<p>Records the date the curb cut was documented, not the date it was added to OMOC.</p> <p>MM/DD/YYYY</p>

OBSTRUCTIONS

Obstructions are documented as point events identifying anything that potentially limits the accessibility of progress along a sidewalk segment. Curb cuts only have Tier Three attributes, described in **Table 4**.

Table 4: Obstruction Attributes

TIER	FIELD	DESCRIPTION
TIER THREE	obstruction_location	<p>Categorizes the two possible locations of sidewalk obstructions.</p> <p>Vertical obstruction: An obstruction that does not restrict clearance at ground level (e.g., a hanging sign that restricts lateral clearance to <4 feet within 80" of the sidewalk, measured vertically).</p> <p>Horizontal obstruction: An obstruction that restricts clearance at ground level; this includes abrupt grade changes (e.g., a fire hydrant that restricts lateral clearance to <4 feet; buckling sidewalk resulting in a substantial lip that poses a tripping hazard and could not easily be rolled over).</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Vertical obstruction ■ Horizontal obstruction ■ Null [DEFAULT]
	horiz_obstruction_type	<p>Describes the horizontal obstruction. Categories include common obstacles that cause sudden changes in the width or slope of the sidewalk.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Light/utility Pole ■ Bench ■ Shelter ■ Drainage grate ■ Fire hydrant ■ Sidewalk cafes ■ Tree pit or similar ■ Buckling or other roughness - e.g., wheeled travel impeded, tripping hazard ■ Other ■ Null [DEFAULT]

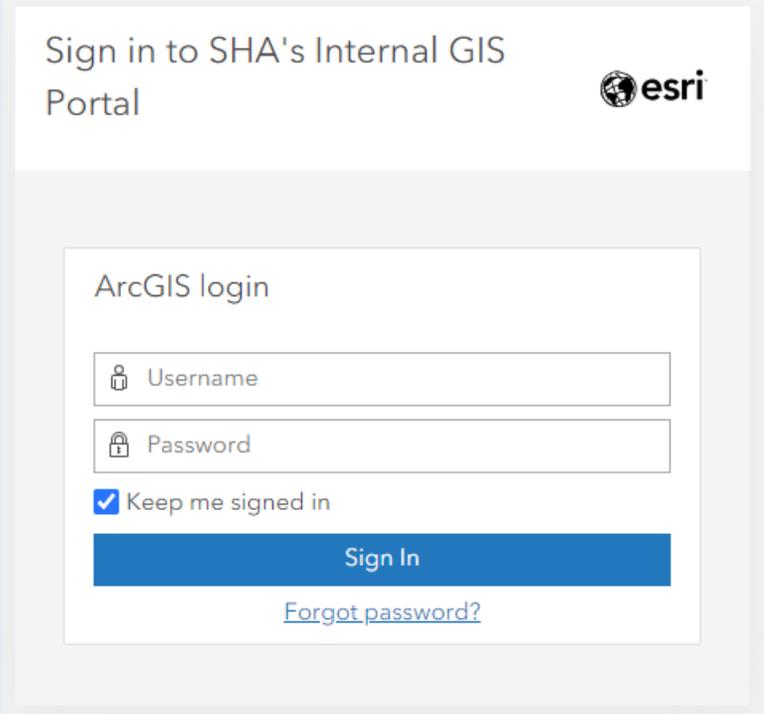
	vertical_obstruction_type	<p>Describes the vertical obstruction. Categories include common obstacles that cause sudden changes in the height clearance of the sidewalk.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Environmental obstruction - tree branch/vegetation ■ Infrastructure obstruction - signs or poles hanging too low ■ Other ■ Null [DEFAULT]
	permanence	<p>Indicates if the obstruction is permanent or temporary. Permanent obstructions also include those that may be resolved through routine maintenance that has not yet occurred and for which no resolution timeline is known, such as resurfacing disjointed sidewalk segments. Temporary obstructions are those resulting from sudden human or natural intervention that will eventually be cleared on a known timeline, e.g. construction closure, fallen trees, structural failure requiring rebuild.</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Permanent ■ Temporary ■ Null [DEFAULT]
	obst_end_date	<p>If an obstruction is temporary, this field is required. Obstructions without a known end date are assumed to be permanent.</p> <p>MM/DD/YYYY</p>
	obs_collection_source	<p>Records the method used to document the obstruction (e.g., field collection or imagery trace).</p> <p>Domain:</p> <ul style="list-style-type: none"> ■ Field collection ■ Imagery ■ OpenStreetMap ■ Existing data ■ Other ■ Null [Default]
	obs_collection_date	<p>Records the date the obstruction was documented, not the date it was added to OMOC.</p> <p>MM/DD/YYYY</p>

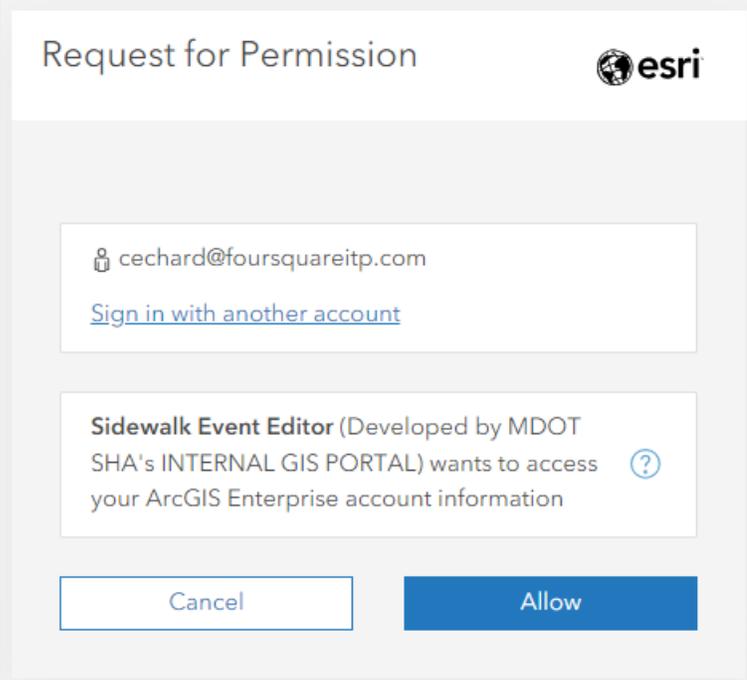
Access the OMOC Sidewalk Event Editor

To access the OMOC Event Editor, reach out to gis@mdot.maryland.gov to obtain login credentials. Once you have received credentials, use the following link to access the OMOC Event Editor:

<https://mdotshaarcgisportal-mdotgov.msapproxy.net/arcgis/home/>

Table 5: Accessing the OMOC Event Editor

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
1	Click on Sign In .	
2	Use the credentials provided by MDOT.	

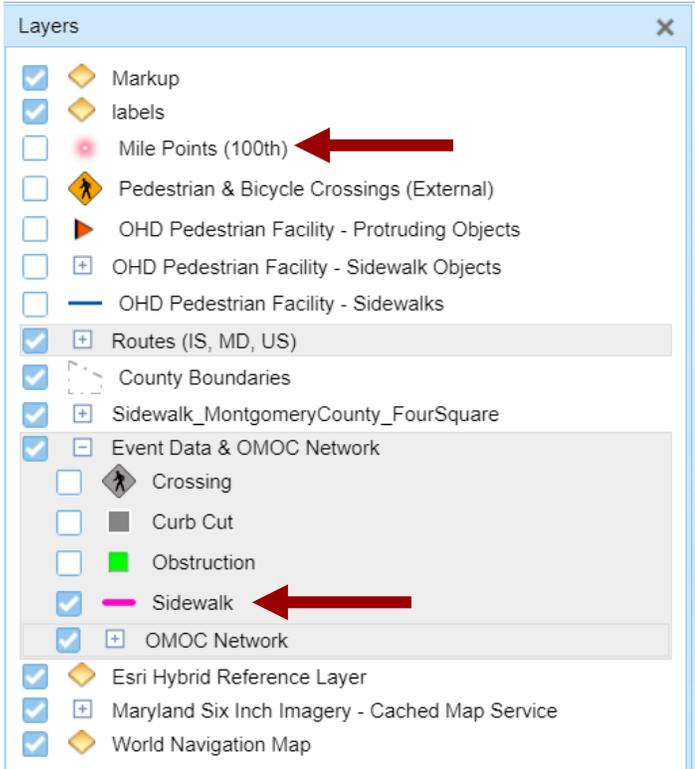
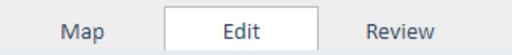
#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
3	Click on the Sidewalk Event Editor .	
4	Allow permission for the Event Editor to access your ArcGIS Enterprise account information.	

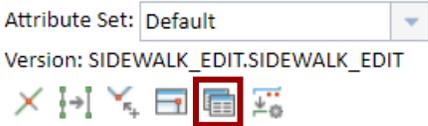
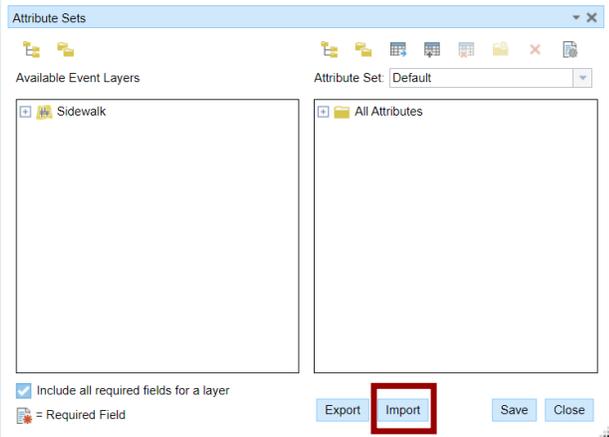
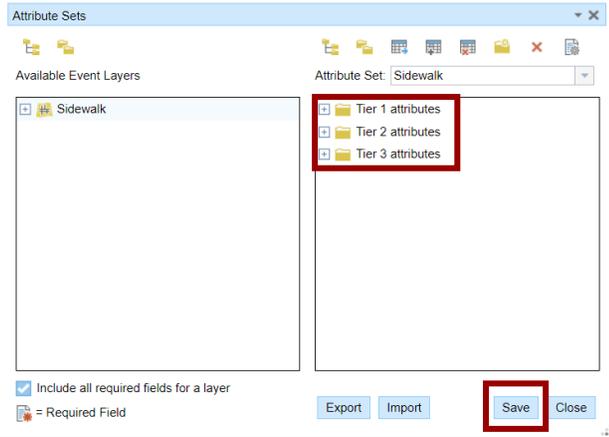
Add Sidewalks to OMOC

Getting Started

The Sidewalks layer documents sidewalks in OMOC; this is the layer you will edit to record additional sidewalks as line events. **Table 6** describes the process for activating this layer. With the layer activated, you will be able to see sidewalks already recorded in OMOC and add new sidewalk events.

Table 6: Turning on the Sidewalks Layer

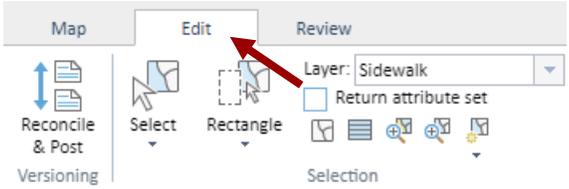
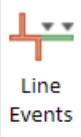
#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
1	Click on the Map tab.	
2	Click the Layers button to open the Layers window.	
3	<p>In the Layers window, turn on the Sidewalk layer by checking the checkbox next to the pink line icon.</p> <p>Turn on the Mile Points layer so you can easily determine the direction of centerlines (more on this later).</p> <p><i>If you plan to use your jurisdiction's existing sidewalk data, anything you submitted to MDOT for reference will be displayed here as well.</i></p> <p><i>If you plan to use aerial imagery, zoom in until the imagery appears (extent 1:9,028).</i></p>	
4	Click on the Edit tab.	

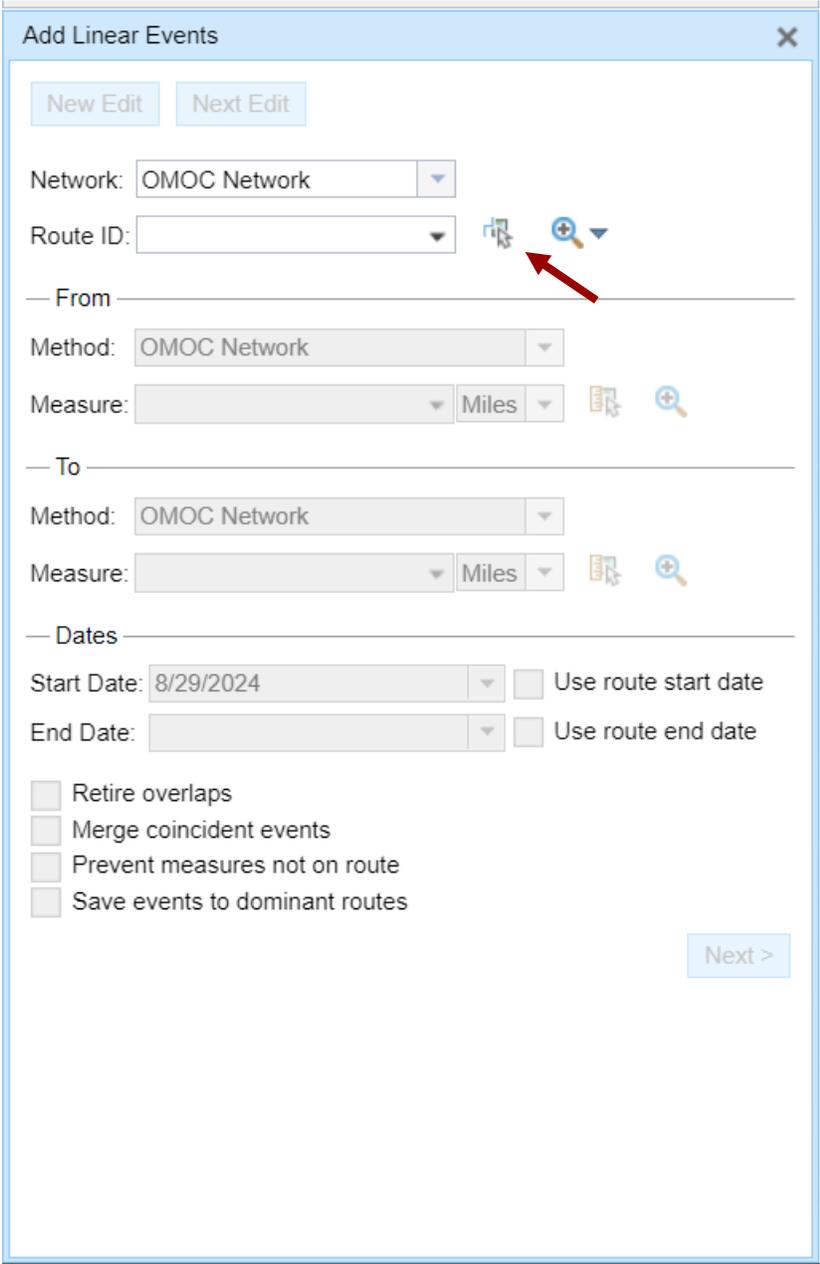
#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
5	Click on the Modify Attribute Sets icon.	
6	Click on Import and add the attribute set, Sidewalk_attributes.rhas , using your system's pop-up file explorer window. <i>If you have not been provided with the .rhas file, please reach out to gis@mdot.maryland.gov with the subject line "Sidewalk Event Editor Attribute Set RHAS File."</i>	
7	The Attribute Sets window should now show three tiers of attributes in the box on the right. Click Save . <i>If you do not changed devices or clear your browser's cache, you will not have to repeat steps 4-8. The sidewalk attribute set will automatically appear.</i>	

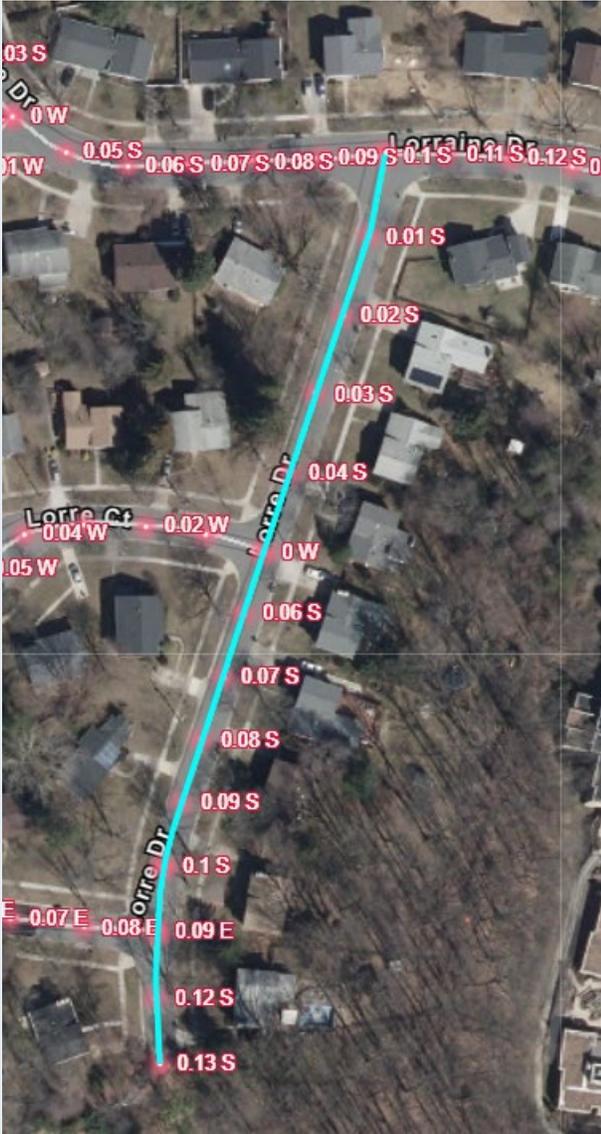
Adding a Sidewalk

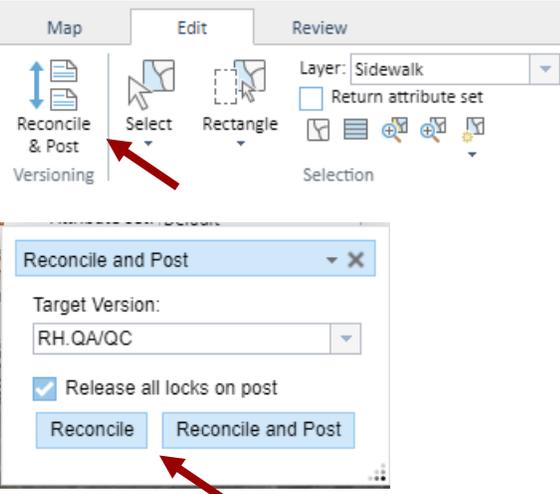
To document a sidewalk not already recorded in OMOC, you will create a new line event (**Table 7**).

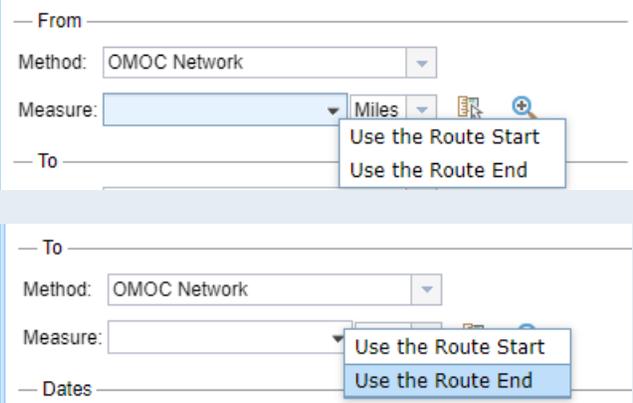
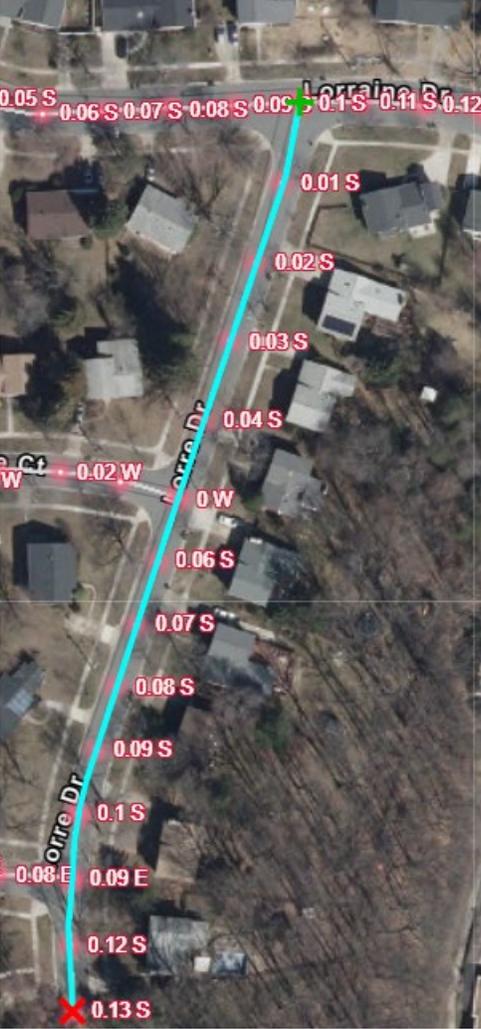
Table 7: Adding a Sidewalk

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
1	Click on the Edit tab.	
2	Click the Line Events button.	

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
3	<p>The Add Linear Events window will open.</p> <p>To select a segment of the centerline you would like to add a sidewalk, click on the Select button next to the Route ID field and click on the centerline (road segment).</p>	

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
4	<p>The segment you clicked will highlight (bright blue in the example image).</p> <p>When prompted to choose a route in cases where two routes exist on the same path (note: this will not always happen), choose the Route ID with a cardinality (sixth-to-last-digit) of 1. See Centerline Overview later in this guide for more information.</p> <p><i>If you are not prompted to reconcile in a Locks window, skip to Step 6.</i></p> <p><i>If you are prompted to reconcile in a Locks window, click OK and continue to Step 5.</i></p>	 <div data-bbox="578 1434 1003 1619"> <p>You have selected 2 routes. □ ×</p> <p>Please select the desired route from the list below.</p> <p>Route: 15000CO04122-1 show</p> <p>Route: 15000CO04122-2 show</p> </div> <div data-bbox="578 1654 1377 1833"> <p>Locks</p> <p>A reconcile with version RH.QA/QC is required to acquire locks. Please reconcile and try again.</p> <p>OK</p> </div>

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
5	<p>Click the Reconcile and Post button in the Edit tab.</p> <p>The Reconcile and Post window will appear. Ensure the Target Version is set to RH.QA/QC and click Reconcile.</p>	

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
6	<p>Determine which portions of the street feature sidewalks. Assuming an intersection is usable by pedestrians, the sidewalk event should continue through the intersection uninterrupted.</p> <p><i>If the sidewalks are fragmented along the road segment or there are multiple centerlines, skip to Step 7.</i></p> <p><i>If sidewalks span the entire road segment on both sides and there is only one centerline on the road, select Use the Route Start as the From Measure. It will appear as a green X. Then, select Use the Route End as the To Measure. It will appear as a red X.</i></p> <p>After this step, continue to Step 8. Skip Step 7, which only addresses fragmented sidewalks along a route.</p>	<p>For sidewalks that span the entire segment on both sides of the road:</p>  

If sidewalks span the entire road segment on both sides and there is only one centerline on the road, go back to **Step 6** and skip this step.

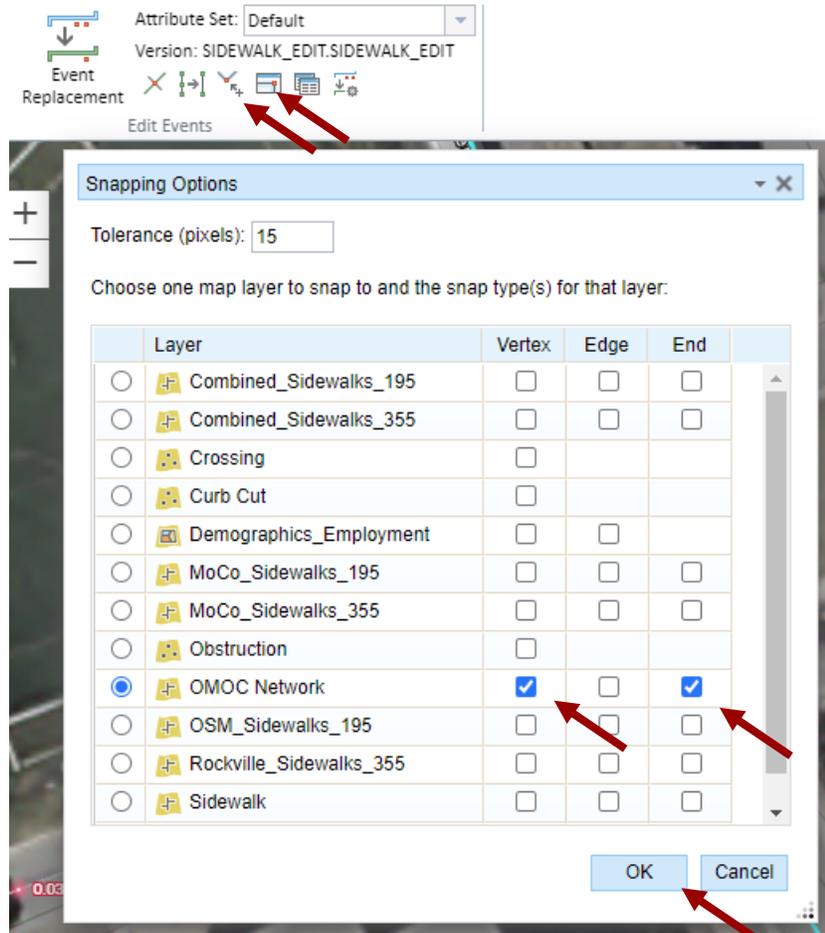
If the sidewalks are fragmented along the road segment or there is more than one centerline on the road, be sure to have toggled the Mile Points layer (Step 3 of **Getting Started**). You will need to be sure you are adding the **From Measure** at a lower mile point than the **To Measure**.

Next, open the **Snapping Options** window in the **Edit Events** tab. Toggle on snapping for the **Vertex** and **End** of the **OMOC Network**, so that your selections match up with the road network. Click **OK**.

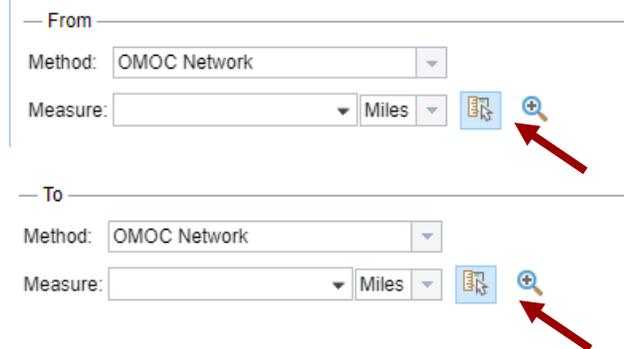
Click **Enable Snapping** to turn on the snapping you just configured.

In the **Add Linear Events** window, click on the **Select** button next to the **From Measure** field and select the point on the road centerline where the sidewalk begins. It will appear as a green X. Similarly, click on the **Select** button next to the **To Measure** field and select the point on the

For sidewalks that are not contiguous:

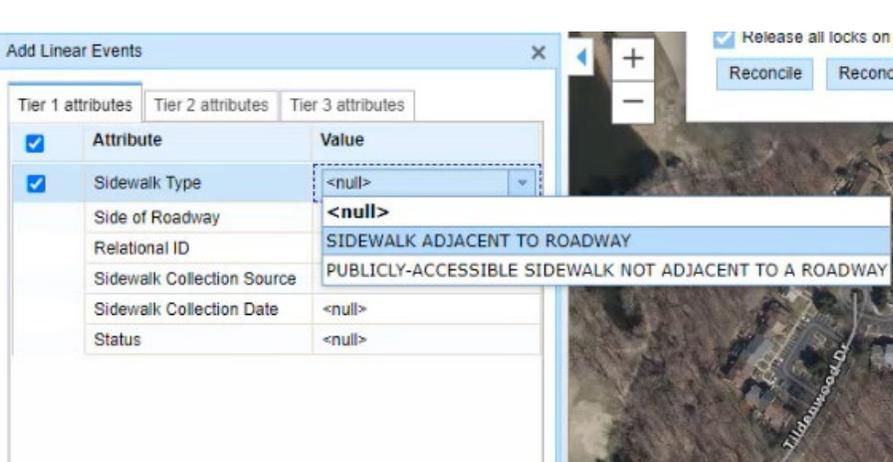


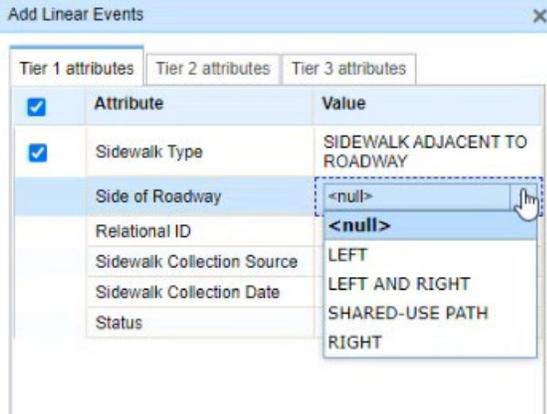
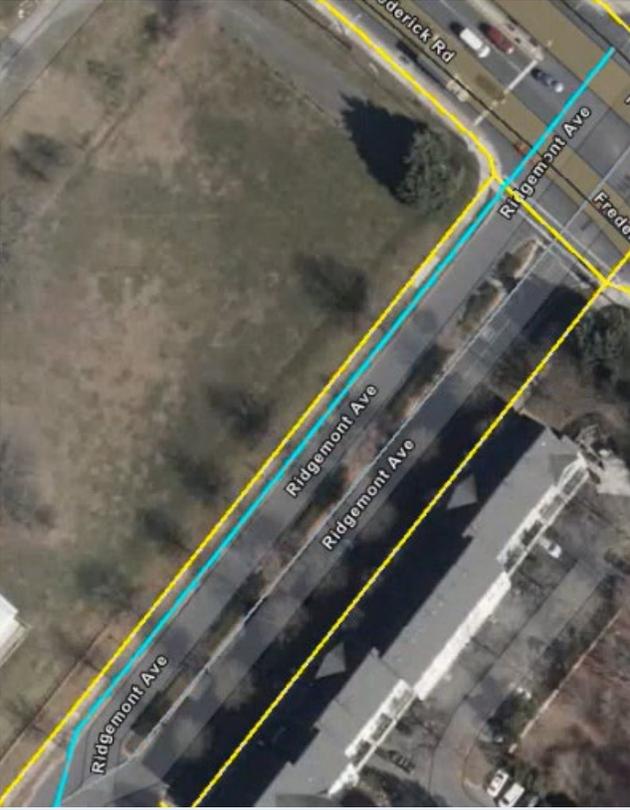
In the Linear Events window:

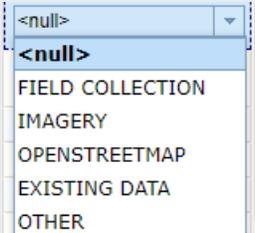
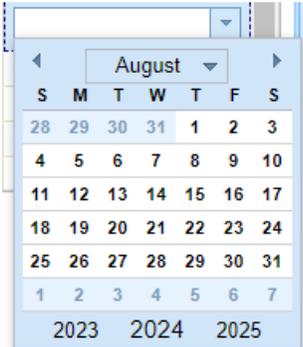
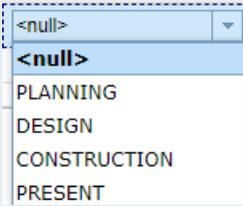


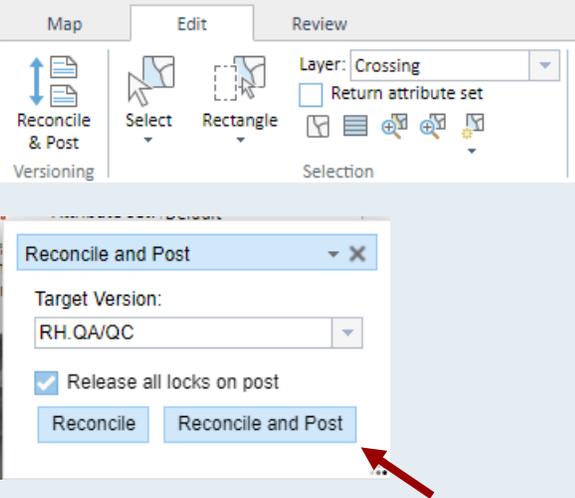
7

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
8	<p>road centerline where the sidewalk ends. It will appear as a red X.</p> <p><i>If multiple centerlines merge into one, end the sidewalk event at that merge point.</i></p> <p><i>If a sidewalk ends at an intersection, ensure the event starts/ends at the point where the centerlines intersect (Illustrated by the red X in the example)</i></p> <p><i>If the sidewalk continues after the intersection, and the intersection is navigable by pedestrians, continue the sidewalk event through the intersection uninterrupted.</i></p> <p>In the Add Linear Events window, ensure the Start Date is today's date, then click Next.</p> <p>Leave all checkboxes unchecked.</p>	 <div data-bbox="578 1213 1219 1535"> <p>— Dates —</p> <p>Start Date: 7/4/2024 <input type="checkbox"/> Use route start date</p> <p>End Date: <input type="checkbox"/> Use route end date</p> <p><input type="checkbox"/> Retire overlaps</p> <p><input type="checkbox"/> Merge coincident events</p> <p><input type="checkbox"/> Prevent measures not on route</p> <p><input type="checkbox"/> Save events to dominant routes</p> <p>Next ></p> </div>

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
9	<p>Assuming the sidewalk is adjacent to the roadway, set the Sidewalk Type to SIDEWALK ADJACENT TO ROADWAY.</p>	

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
10	<p>Define the side of the road your current sidewalk segment(s) is/are on.</p> <p><i>If there are multiple centerlines (e.g., a divided highway with a median), only include the side of the road centerline where the sidewalk is directly next to the centerline you selected.</i></p> <p>The example here has two centerlines. Each centerline has a sidewalk on one side only. See Centerline Overview later in this guide for more information.</p> <p>Reminder: In determining the side, imagine you are walking from the green start X to the red end X; what side is the sidewalk on?</p>	 

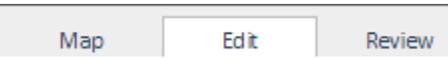
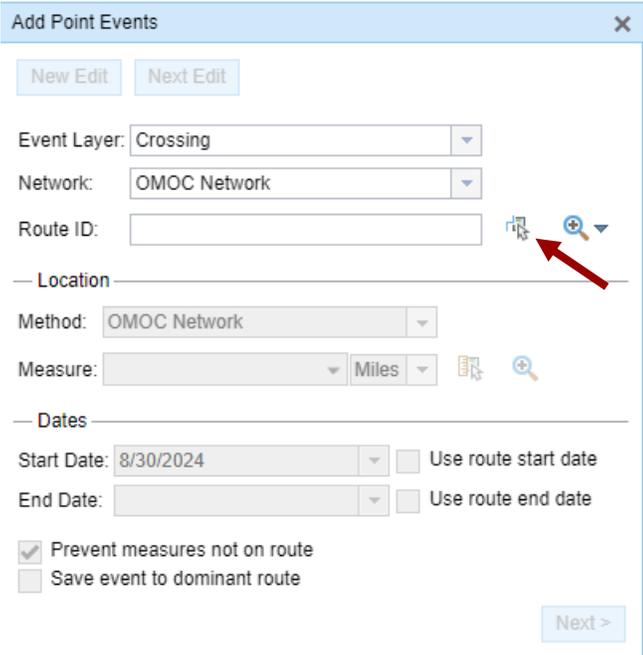
#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)																																																	
11	<p>Optional: If you would like to add an identifier to integrate OMOC with an existing sidewalk dataset, enter the ID from your data in the Relational ID field.</p>	 <p>The screenshot shows a dialog box titled "Add Linear Events" with three tabs: "Tier 1 attributes", "Tier 2 attributes", and "Tier 3 attributes". The "Tier 3 attributes" tab is active, showing a table with the following data:</p> <table border="1"> <thead> <tr> <th>Attribute</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Sidewalk Type</td> <td>SIDEWALK ADJACENT TO ROADWAY</td> </tr> <tr> <td>Side of Roadway</td> <td>LEFT AND RIGHT</td> </tr> <tr> <td>Relational ID</td> <td><null></td> </tr> <tr> <td>Sidewalk Collection Source</td> <td><null></td> </tr> <tr> <td>Sidewalk Collection Date</td> <td><null></td> </tr> <tr> <td>Status</td> <td><null></td> </tr> </tbody> </table>	Attribute	Value	Sidewalk Type	SIDEWALK ADJACENT TO ROADWAY	Side of Roadway	LEFT AND RIGHT	Relational ID	<null>	Sidewalk Collection Source	<null>	Sidewalk Collection Date	<null>	Status	<null>																																			
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Status	<null>																																																		
12	<p>Set the Sidewalk Collection Source.</p>	 <p>The screenshot shows a dropdown menu with the following options:</p> <ul style="list-style-type: none"> <null> <null> FIELD COLLECTION IMAGERY OPENSTREETMAP EXISTING DATA OTHER 																																																	
13	<p>Set Sidewalk Collection Date. If you used imagery from the Event Editor, use today's date.</p>	 <p>The screenshot shows a date picker for the month of August. The calendar grid shows the following dates:</p> <table border="1"> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>28</td> <td>29</td> <td>30</td> <td>31</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> </tr> <tr> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> </tbody> </table> <p>At the bottom, the years 2023, 2024, and 2025 are visible.</p>	S	M	T	W	T	F	S	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7
S	M	T	W	T	F	S																																													
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25	26	27	28	29	30	31																																													
1	2	3	4	5	6	7																																													
14	<p>Set Status. If the sidewalk currently exists, select PRESENT.</p>	 <p>The screenshot shows a dropdown menu with the following options:</p> <ul style="list-style-type: none"> <null> <null> PLANNING DESIGN CONSTRUCTION PRESENT 																																																	
15	<p>Add any other optional attributes in Tier 2 and 3 and click Save.</p>	 <p>The screenshot shows two buttons: "< Back" and "Save".</p>																																																	

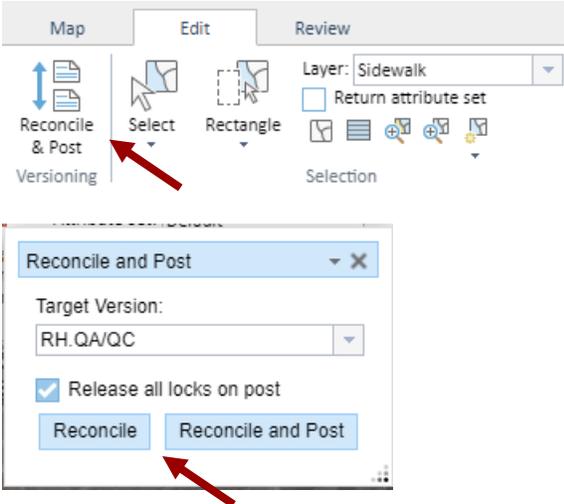
#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
10	<p>When you are done with a batch of additions, be sure to navigate to the Edit tab and select Reconcile and Post to Target Version RH.QA/QC.</p>	 <p>The image shows a software interface with three tabs: 'Map', 'Edit', and 'Review'. The 'Edit' tab is active, showing a 'Reconcile & Post' button in the 'Versioning' group and a 'Reconcile and Post' dialog box. The dialog box has a 'Target Version' dropdown set to 'RH.QA/QC', a checked checkbox for 'Release all locks on post', and two buttons: 'Reconcile' and 'Reconcile and Post'. A red arrow points to the 'Reconcile and Post' button.</p>

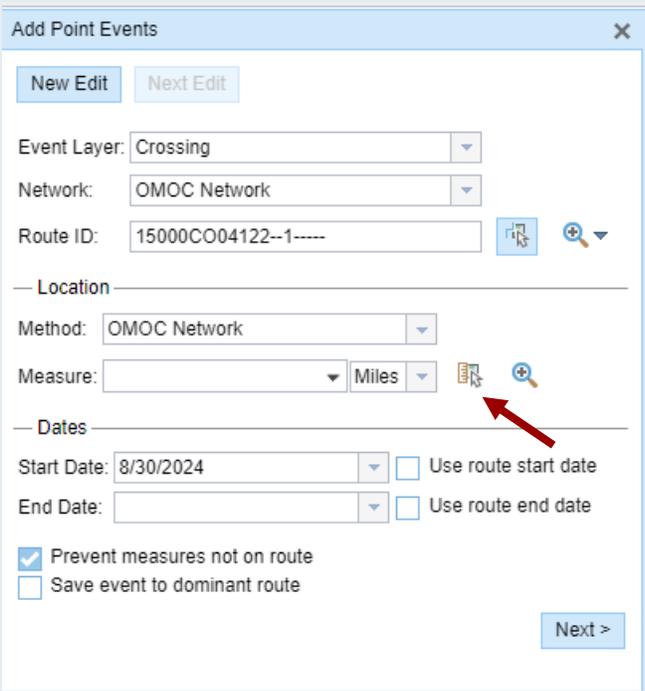
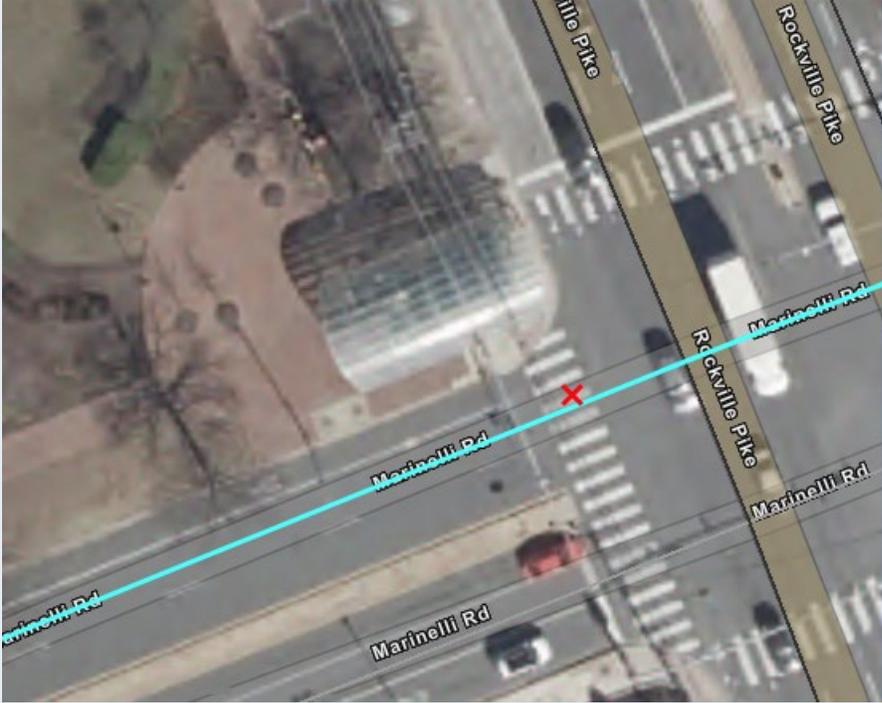
Add a Point Event

Unlike sidewalks, events like crossings, curb cuts, and obstructions are to be entered as points rather than as lines. **Table 8** describes the process for adding point events using the OMOC Event Editor.

Table 8: Adding a Point Event

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
1	Click on the Edit tab.	
2	Click the Point Events button.	
3	<p>The Add Point Events window will open.</p> <p>To select a segment of the centerline you would like to add an event, click on the Select button next to the Route ID field and click on the centerline where you plan to document the event.</p> <p>One crossing should be entered for each centerline crossed (i.e., one crosswalk point for a single centerline, two for a double centerline).</p>	

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
4	<p>The segment you clicked will appear in bright blue.</p> <p><i>If you are not prompted to Reconcile, skip to Step 6.</i></p> <p><i>If you are prompted to Reconcile, click OK and continue to Step 5.</i></p>	
5	<p>Click the Reconcile and Post button in the Edit tab of the header.</p> <p>The Reconcile and Post window will appear. Ensure the Target Version is set to RH.QA/QC and click Reconcile.</p>	

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)
		
6	<p>Click the Select button next to the Measure field and then click on the location of the point event. It will appear as a red X.</p> <p>To add a crosswalk, click the centerline where it is intersected by the crosswalk. Remember to add a point for each crosswalk at the intersection.</p>	

#	STEP DESCRIPTION	IMAGE (IF APPLICABLE)																										
7	Enter today's date and click Next .																											
8	Add as many attributes as you know for each point event. The attribute table for Crossings is shown here.	<table border="1"> <thead> <tr> <th>Attribute</th> <th>Value</th> </tr> </thead> <tbody> <tr><td>Crossing Type</td><td><null></td></tr> <tr><td>Markings</td><td><null></td></tr> <tr><td>Crossing Signal Presence</td><td><null></td></tr> <tr><td>Crossing Collection Source</td><td><null></td></tr> <tr><td>Crossing Collection</td><td><null></td></tr> <tr><td>Pedestrian Signal Type</td><td><null></td></tr> <tr><td>Pedestrian Signal Actuation</td><td><null></td></tr> <tr><td>Audible Pedestrian Signal</td><td><null></td></tr> <tr><td>Locator Tone</td><td><null></td></tr> <tr><td>Vibro Tactile Alert</td><td><null></td></tr> <tr><td>Signal Curb Distance (Feet)</td><td><null></td></tr> <tr><td>Signal Button Height (Feet)</td><td><null></td></tr> </tbody> </table>	Attribute	Value	Crossing Type	<null>	Markings	<null>	Crossing Signal Presence	<null>	Crossing Collection Source	<null>	Crossing Collection	<null>	Pedestrian Signal Type	<null>	Pedestrian Signal Actuation	<null>	Audible Pedestrian Signal	<null>	Locator Tone	<null>	Vibro Tactile Alert	<null>	Signal Curb Distance (Feet)	<null>	Signal Button Height (Feet)	<null>
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Locator Tone	<null>																											
Vibro Tactile Alert	<null>																											
Signal Curb Distance (Feet)	<null>																											
Signal Button Height (Feet)	<null>																											
9	Click Save to complete the point event.																											
10	When you are done with a batch of additions, be sure to Reconcile and Post to Target Version RH.QA/QC .																											

Edit Existing Events

In addition to allowing users to record pedestrian infrastructure, the OMOC Sidewalk Event Editor facilitates edits to existing sidewalks, crossings, curb cuts, and obstructions. The following describes the steps to split a sidewalk and edit event attributes.

Split a Line

To ensure the accuracy of sidewalk attributes over time, you may need to split the line into smaller segments (e.g., splitting a large sidewalk line to facilitate the documentation of a widening project along a smaller section). Use the **Split Linear Events** button in the **Edit** tab to open the **Split Linear Events** window (**Figure 1**) and select both the **Route** and the **Measure** that will serve as the splitting point between your two new line events. It may be helpful to turn on **Mile Points** in the **Layers** window to understand which line event is which. **Event 1** will start at the lowest measure and end at the measure you used to split the line, while **Event 2** will start at the measure you used to split the line and end at the highest measure.

You can make changes to the two new events before saving. As always, **Reconcile and Post** after you are done with your batch of edits for the day.

Figure 1: Split Events Window

Attribute	Event 1	Event 2
Sidewalk Type	SIDEWALK ADJACENT TO ROADWAY	SIDEWALK ADJACENT TO ROADWAY
Side of Roadway	LEFT AND RIGHT	LEFT AND RIGHT
Relational ID	<null>	<null>
Sidewalk Collection Source	<null>	<null>
Sidewalk Collection Date	<null>	<null>
Status	<null>	<null>

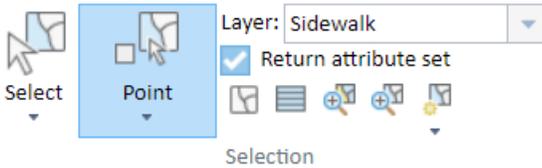
For more information on splitting lines, click the link below:

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/splitting-events.htm>

Edit Event Attributes

To edit a point or linear event's attributes, toggle the **Layer** in the **Selection** pane of the **Edit** tab (**Figure 2**) to the type of event you would like to edit.

Figure 2: Selection Pane



Select the event on the map using the  button and clicking on the event you wish to edit. If you would prefer to select many features or use another select tool, click the arrow under the **Point** tool to change your selection method (e.g., "Rectangle"). A table will appear on your screen with the selected events, and you can edit fields just like you would an Excel spreadsheet. To delete a record or several records, select the row (or several rows by holding **ctrl**) and then click  to delete events.

After making edits, click **Save**. When the **Save Options** window (**Figure 3**) appears, consider the purpose of your edits. If you were correcting an error in the data, do not check any boxes. If you are updating an event to reflect a real change in the sidewalk or other event, check **Retire edited events and create new events effective** the date the change took place (i.e., the date of the infrastructure modification, not the date of OMOG revisions).

Figure 3: Save Options Window

As always, **Reconcile and Post** after you are done with your batch of edits.

For more information, click the link below:

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/editing-events-in-the-selection-table.htm>

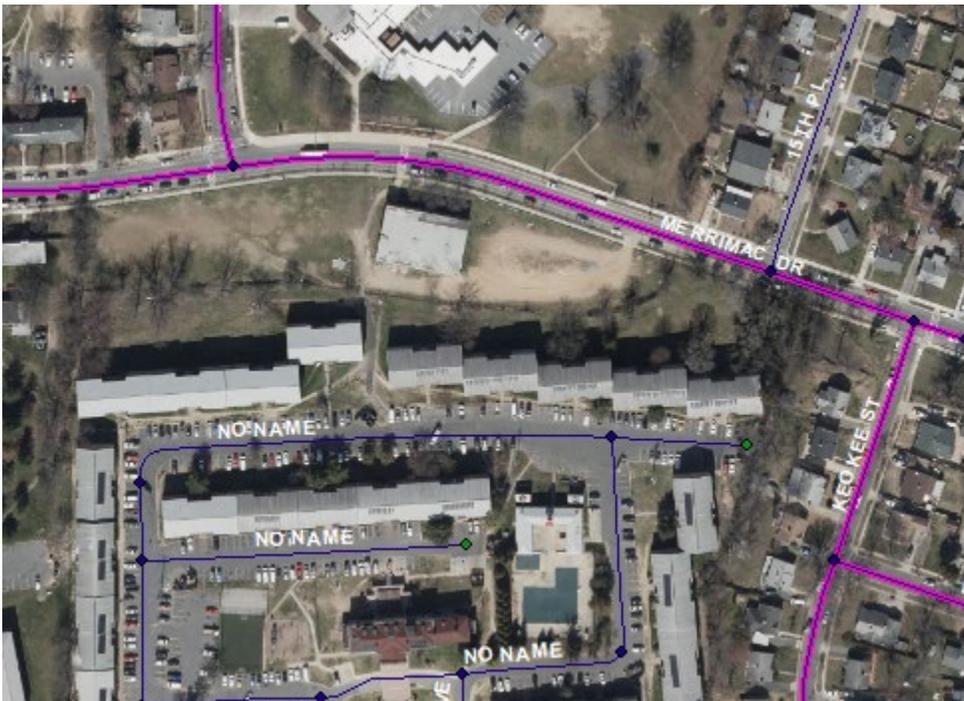
Centerline Overview

OMOC documents roadway characteristics, including sidewalks, relative to their location along centerlines. This section provides context on centerline aspects that impact how users should enter data about sidewalks, crossings, and other pedestrian infrastructure.

Undivided Routes

Routes can accommodate two-way traffic but have only one “visible” line, which requires the user to pick one of two features (i.e., routes) that follow the same geometry. In cases like **Figure 4** below, both features (i.e., directions of travel) share the same geometry, requiring users to select one before documenting pedestrian infrastructure.

Figure 4: Undivided Routes



In this case, users should always choose the route with a cardinality of 1 (see **Figure 5** for an illustration of how to identify cardinality) and avoid adding attributes to other routes that share its geometry. In **Figure 5**, the route ID of 01000IS00068--1----- has a cardinality of 1 and should be the route to contain all attributes. *Following this guidance, non-inventory route sections will not contain sidewalk data.*

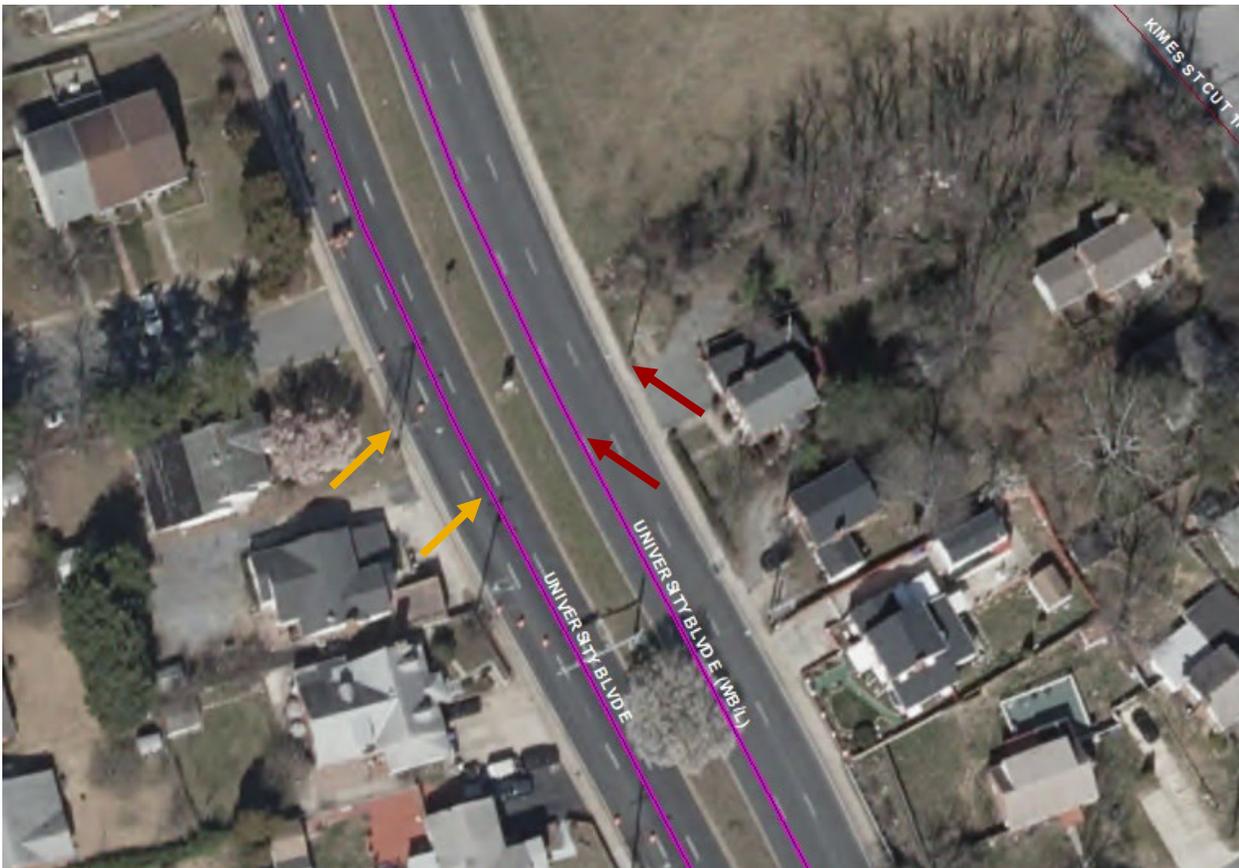
Figure 5: Route ID Structure

County	Municipality	Prefix	Route Number	Suffix	Cardinality	Exit	Ramp
01	000	IS	00068	--	1	---	--

Divided Routes

Divided routes are physically divided along the section of road, resulting in two features (i.e., no shared geometry). As an example, **Figure 6** shows a highway divided by a median. In this case, users should add sidewalk attributes to the nearest centerline. In this example, the sidewalks on the right side of the median should be assigned to the route on right (i.e., assign the sidewalk identified by the red arrow to the centerline identified by the red arrow). Similarly, only the sidewalks on the left side of the median should be assigned to the route on left.

Figure 6: Divided Routes



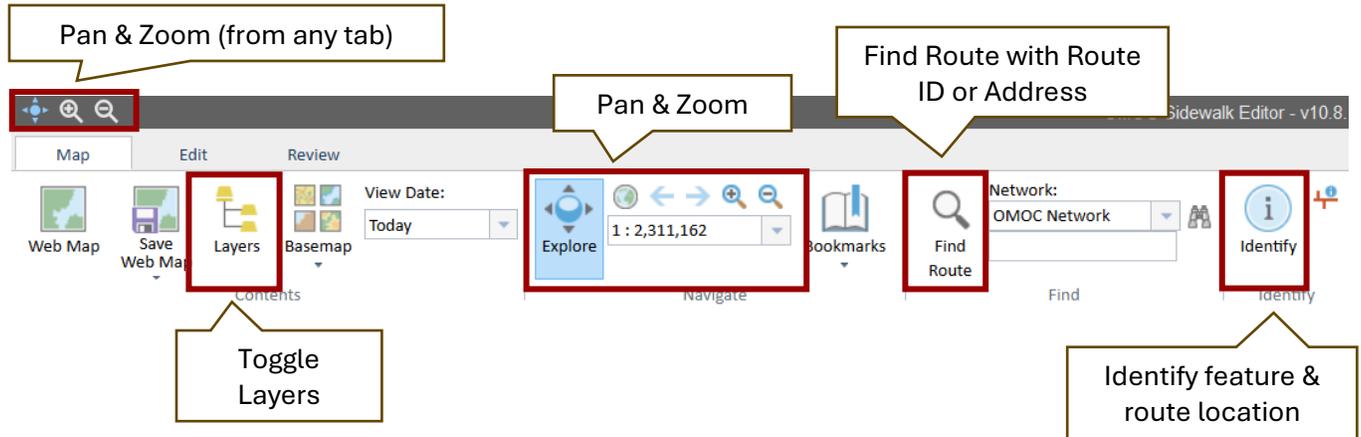
Appendix: OMOC Event Editor Quick Reference

This section provides additional instructions for navigating the OMOC Sidewalk Event Editor and customizing it for your specific use case. The OMOC Sidewalk Event Editor features three tabbed groupings of functionality: Map, Edit, and Review. A description of the functionality is provided for reference.

Map Tab

The **Map** tab (**Figure 7**) includes **Navigation**, **Find**, **Contents**, and **Identify** tools.

Figure 7: Map Tab



NAVIGATION

The following **Navigation** menu (**Figure 8**) options are available for use in Event Editor. Note: the mouse wheel also controls the ability to zoom in/out.

Figure 8: Navigation Menu



- Pan
- Zoom to Initial Extent
- Zoom to Previous Extent
- Zoom to Next Extent
- Zoom In
- Zoom Out
- Set the Map Scale (select a preset zoom level, or enter a user-defined value)

FIND

The **Find** menu (**Figure 9**) options include: **Find Route** and **Find Address**.

Figure 9: Find Menu



Find Route

Event Editor provides the ability to enter a Route ID on a specified network and **Find Route** will return a listing of routes. If a given route on the list is clicked, Event Editor will present the following options:

- Zoom to Route
- Zoom to Measure
- Flash Route
- Add Linear Events
 - Opens the Add Linear Events window for editing, and zooms to that route
- Check Events
 - Opens the Check Events window for QA, and zooms to that route

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/searching-for-routes.htm>

Find Address

To find an address, toggle the dropdown under Find Route and select **Find Address**. Then, type the desired address.

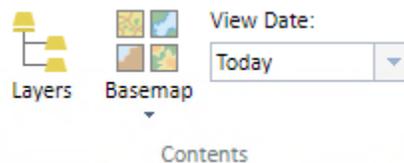
- The Find Address tool provides the ability to search for an address. After entering an address, Event Editor will return a set of potential matches, that when clicked will zoom to that location on the map.

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/searching-for-addresses-and-places.htm>

CONTENTS

The **Contents** menu (Figure 10) options include: **Layers**, **Basemap**, and **View Date**.

Figure 10: Contents Menu



Layers

Event Editor provides the ability to view a map legend depicting layer symbology and toggle the available **Layers** on and off. Layers include reference sidewalk layers provided by local jurisdictions, OMOC centerlines, centerline segments with sidewalk attributes, and pedestrian point events (e.g., curb cuts or crossings) recorded.

Basemap

Event Editor provides the ability to change the background **Basemap** that is viewable in the map. Several Esri-provided basemaps are available, including Imagery, Streets, Topographic, etc.

At a zoomed-in extent(1:9,028), the basemap will automatically toggle to Maryland's aerial imagery (Figure 7) for easy reference when tagging sidewalks on the centerline.

Figure 11: Maryland's Aerial Imagery



<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/changing-the-basemap.htm>

View Date

Event Editor provides the ability to change the temporal view of the network and event data, so long as the dates on the data support this function. This allows for the adding of events, editing of events and querying of events and routes relative to the current date, historic date, or future date.

- Note: time-specific (i.e., 11:23 a.m.) edits are not supported in Event Editor. All edits are configured to be time stamped at 12:00:00am.

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/changing-the-time-view.htm>

IDENTIFY

The **Identify** menu (Figure 12) options includes: **Identify Features** and **Identify Route Locations**.

Figure 12: Identify Menu



Identify Features

Event Editor allows users to click on any dynamic layer in the map and return a listing of attributes for that feature in a window with **Identify Features**.

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/identifying-features.htm>

Identify Route Locations

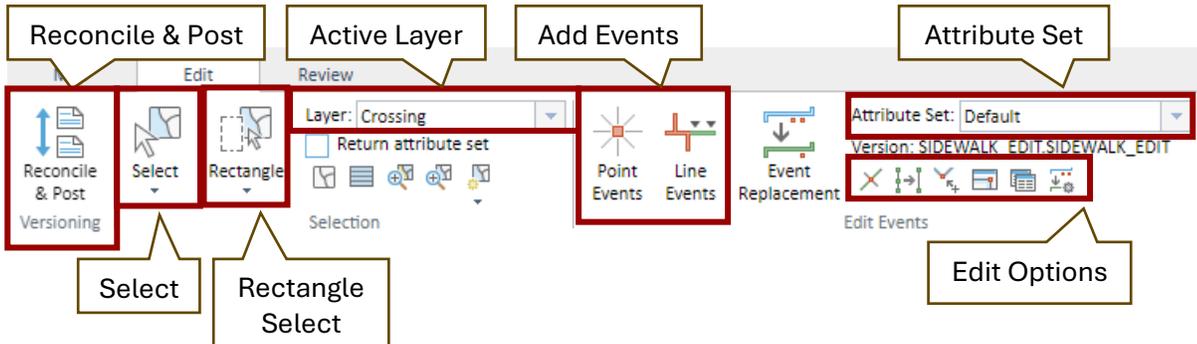
The **Identify Route Locations** tool returns the feature attribute information as well as the measure information when the feature is part of a Linear Referencing System (LRS) network.

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/identifying-features.htm>

Edit Tab

The **Edit** tab (Figure 13) includes **Versioning**, **Selection**, and **Edit Events** tools.

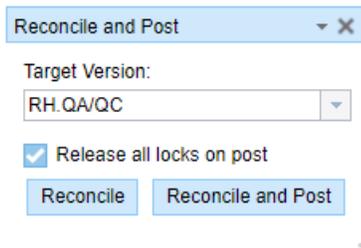
Figure 13: Edit Tab



VERSIONING

Use the **Reconcile & Post** function (Figure 14) to make sure you have the most up-to-date data from other users' work (**Reconcile**) and make sure all other users have the most up-to-date data from your work (**Reconcile & Post**). In most cases, you will **Reconcile & Post** to the **Target Version: RH. QA/QC**. Releasing all **Locks** allows users to make any necessary changes to the line segments your edit session may have previously locked.

Figure 14: Reconcile and Post Dialog



<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/reconciling-and-posting-event-data.htm>

SELECTION

The **Select** and **Rectangle Select** functions make it easy to select the line segments you wish to edit or learn more about. Click on the line segment you wish to select using the **Select** function, or use the **Rectangle Select** tool to select several segments at once. Be sure you are targeting the desired **Active Layer**.

EDIT EVENTS

Select **Point Events** to add point events (i.e., Crossings, Curb Cuts, Obstructions) and select **Line Events** to add line events (i.e., Sidewalks) to the network. For step-by-step instructions, reference **Add Sidewalks to OMOC** or **Add a Point Event**.

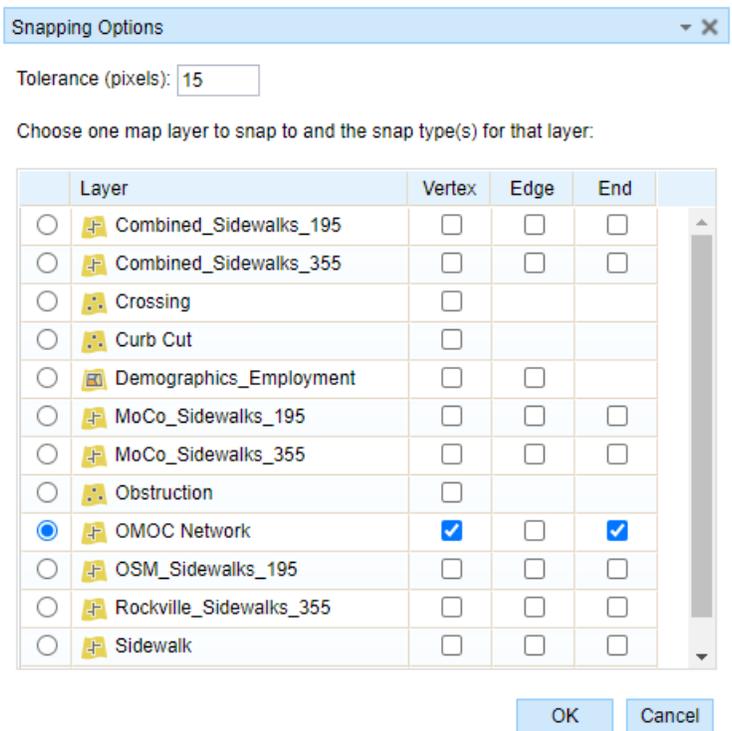
If you have been provided a set of fields organized differently than the default (e.g., if you need to prioritize certain fields and show them first every time you add an event), use  to import the file you were provided then change the **Attribute Set** to your preferred settings.

Use  to **Split Linear Events**. Reference the **Split a Line** section in this document for more information.

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/splitting-events.htm>

Use  to **Enable Snapping**, so that you can more easily add events without gaps in the network. Edit **Snapping Options** using . In most cases, you will want to snap to the OMOC Network in the **Snapping Options** window (**Figure 15**).

Figure 15: Snapping Options



Snapping Options X

Tolerance (pixels):

Choose one map layer to snap to and the snap type(s) for that layer:

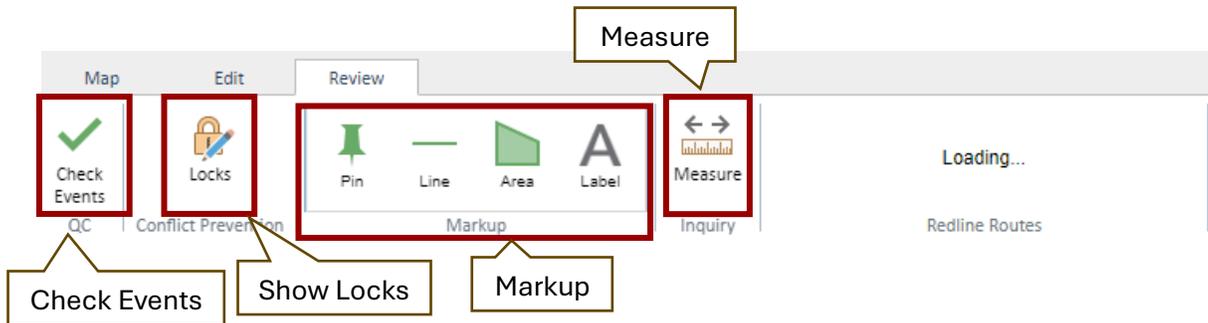
	Layer	Vertex	Edge	End
<input type="radio"/>	 Combined_Sidewalks_195	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	 Combined_Sidewalks_355	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	 Crossing	<input type="checkbox"/>		
<input type="radio"/>	 Curb Cut	<input type="checkbox"/>		
<input type="radio"/>	 Demographics_Employment	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="radio"/>	 MoCo_Sidewalks_195	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	 MoCo_Sidewalks_355	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	 Obstruction	<input type="checkbox"/>		
<input checked="" type="radio"/>	 OMOC Network	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="radio"/>	 OSM_Sidewalks_195	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	 Rockville_Sidewalks_355	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	 Sidewalk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel

Review Tab

The **Review** tab (Figure 16) includes **Conflict Prevention**, **Markup**, and **Inquiry** tools. This tab is not necessary for adding basic sidewalk attributes, but the guidance for **Review** tools is included here for reference.

Figure 16: Review Tab



QC (QUALITY CONTROL)

Use **Check Events** to check line segments for gaps, overlaps, and invalid measures.

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/detecting-gaps-overlaps-and-invalid-measures.htm>

CONFLICT PREVENTION

Use the **Locks** function to view all the segments currently locked (by you and other users). This can be helpful when the segment you wish to edit is currently locked.

<https://enterprise.arcgis.com/en/roads-highways/latest/event-editor/conflict-prevention-in-event-editor.htm>

MARKUP

Use the **Markup** functions to leave notes about your work so you can pick up where you left off or note a concern about data so you can verify validity.

INQUIRY

Use the **Measure** function to approximately measure events and other layers on the map for reference while you review your work.