

Comprehensive Pedestrian Sidewalk Connectivity Plan Phase II









Transportation Technical Advisory Committee August 29, 2022

Fehr / Peers

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# Meeting Agenda

- 1. Project Overview
  - 1. Phase I
  - 2. Phase II
- 2. Project Goals & Objectives
- 3. Data Collection Location Selection
- 4. Data Collection Methods
  - 1. High Resolution Imagery Extraction
  - 2. On-the-ground sidewalk and curb ramp inventory
- 5. Draft Plan Overview

# **Project Overview**

### Phase 1 (2018-2020):

Complete sidewalk inventory to assist in AT planning

- Sidewalk existence, width, material
- Crosswalks
- Some obstructions data (ex. curb ramps, buffers)
- Webportal integration

### Phase 2 (2021-2023):

More detailed obstructions data to support pedestrian improvement projects (ex. SRTS, ADA Transition Plans)

- Aerial attribute inventory
- ADA Transition Plan data



#### Aerial Attribute Inventory:

- Sidewalk pavement width
- Travel lanes and widths
- On-street parking
- Roadway median type
- Landscaped buffers and width
- Driveways
- Trees and canopies
- Truncated domes
- Bus shelters
- Class II and III bike facilities (marked)

#### ADA Transition Plan Data:

- Sidewalk segments
- Curb ramps
- Obstructions

# **Project Goals & Objectives**

#### **Goals**

- improve connections between people and places (jobs, schools, transit)
- improve public health, social equity, and community benefits with better pedestrian access

#### **Objectives**

- provide more accurate pedestrian infrastructure data for active transportation planning and construction of priority projects
  - Enhance multimodal neighborhood mobility
  - Improve active transportation safety
  - Improve first/last mile transit connectivity to transit stations
  - Foster livable and healthy communities and promote social equity



# **Data Collection Locations**



### **Automated Extraction**

Most urbanized areas with sidewalks



## Sidewalk and Curb Ramp Surveys

- Mileage allocated based on total population (per capita) for all agencies
- Recommended locations were identified based on the following factors:
  - Phase 1 areas
  - Major roadway connections
  - Employment density
  - Population density
  - Access to transit
  - Access to schools

## **Preliminary Web Map – How to Review Locations in Your Agency**



**Existing sidewalks** 

Preliminary Ph2 sidewalk survey locations

https://fehrandpeers.maps.arcgis.c om/apps/webappviewer/index.htm l?id=8cfod4d244e044a9b6d7cc2a2 210eee7

## **Data Collection Methods**

## **Automated Extraction**



## Sidewalk and Curb Ramp Surveys



## **Automated Extraction**

High resolution aerials + AI technology + human annotation + digital mapping



### **Project Attributes:**

- Sidewalk pavement width
- Travel lanes and widths
- On-street parking (marked)
- Roadway median type
- Bicycle facilities (marked)
- Landscaped buffers and width
- Driveways
- Trees and canopies
- Truncated domes
- Bus shelters



## Sidewalk & Curb Ramp Surveys

Utilizing digitized survey instruments, certified ADA experts will collect sidewalk and curb ramp data more rapidly than traditional methods



## **Draft Plans Recap**

## **Public-Facing (External)**



## Local-Facing (Internal)

#### Sample City - Pedestrian Connectivity Plan

Sample City - Pedestrian Connectivity Plan

An analysisof the City's pedestrian infrastructure within high-demand areas and the steps needed to implement an ADA Transition Plan.

Fehr & Peers Draft



Overview ADA Transition Plan Guidance About the Data Viewing the Data Accessing the Data Schedule for Barrier Removal





# **Project Contacts**

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