ADA Self-Evaluation and Transition Plan

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Agenda

- ADA Background
- Applicable Standards
- Steps to Compliance
- ADA Transition Plan Components
- Self-Evaluation Technology
  - Lessons Learned
  - Current Solutions
What is the Americans with Disabilities Act (ADA)?

- Nation’s first comprehensive civil rights law addressing the needs of people with disabilities
- Prohibits discrimination in all aspects of life

Source: www.eeoc.gov
Department of Justice - Project Civic Access (https://www.ada.gov/civicac.htm)
APPLICABLE STANDARDS
2010 ADA Standards for Accessible Design

- Current enforceable standards

- No guidance for facilities within the public rights-of-way
2011 Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG)

- Originally intended to supplement ADAAG
- MUTCD incorporated by reference
STEPS TO COMPLIANCE
Process Overview

- Public Involvement
- Self-Evaluation
- Transition Plan
- Implementation
- Monitor Progress
- ADA Coordinator
- Grievance Procedure
Public Rights-of-Way Self-Evaluation

- Sidewalks
- Street crossings
- Driveway crossings
- Curb ramps
- Pedestrian signal equipment
- Transit stops
ADA Transition Plan Components

- Identify programmatic and physical obstacles that limit the accessibility of facilities to individuals with disabilities
- Describe the methods to be used to make facilities accessible
- Provide a schedule for making access modifications
- Identify public officials responsible for implementation of the Transition Plan
LESSONS LEARNED

Self-Evaluation Technology
Technology Options Investigated

- Paper field forms & unconnected camera
- Trimble GeoExplorer/Juno with digital data dictionary & Eye-Fi connected camera
Technology Options Investigated

- Trimble GeoExplorer/Juno with digital data dictionary & integrated camera

- Tablet/laptops with customized data collection forms/user interface
Evaluation Methodology

- Measure slopes to the nearest tenth of a percent

- Measure sidewalk, curb ramp, and crosswalk dimensions to the nearest inch

- Measure cross street widths, driveway widths, and sidewalk segment lengths to the nearest foot
Evaluation Methodology

- Isolate the measurements for each element evaluated

- Output should be available in GIS shapefile format with geospatially referenced photos of evaluated elements
Challenges

- Data format consistency
- Missing/erroneous data
- Multiple return site visits to correct data
- Associating features with unique photo file name
- Data loss during download/transfer to server
- Automating cost estimation and reporting
Reporting Capabilities

- **Compliance status** of each element evaluated based on PROWAG

- **Possible Solutions** to remove any barriers and bring the element into compliance
Reporting Capabilities

- Estimated cost of suggested improvement
- Prioritization of the individual facility, independent of other locations of the same facility type
Self-Evaluation Technology

CURRENT SOLUTIONS
Data Collection Process

Features & photos are uploaded to the cloud

Photos are attached to GIS features as attributes

Export features & photos to a GIS database

Accuracy GIS layer with photos and field evaluation data
MANUAL DATA COLLECTION
Manual Data Collection Equipment
ArcGIS / GPS based Data Collection Tools

- Integrated data collection field form
- Fully customizable field forms
- Integrated digital camera
- Field data and photos sync with ArcGIS
In-Field Application Display
In-Field Application Display
LIDAR DATA COLLECTION
Other LiDAR Data
Other LiDAR Data
Gorrondona LiDAR Data
ArcGIS / GPS based Data Collection Tools
GIS Shapefiles

**Legend**

- **Intersection**
- **Ramp with integrated photos**

**Photo Hyperlink Display**
LiDAR Point Cloud

- Phased feature extraction
- Other asset inventories
Facility Reports

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| Ramp 1          |        |                |
| Ramp 2          |        |                |
| Ramp 3          |        |                |
| Ramp 4          |        |                |

For further details and comprehensive analysis, refer to the detailed facility reports. Further images and descriptions are also provided for reference.
Web Interface Display
Thank You!

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