



El Mirage Rd; 303L – Jomax Road Design

ADA Compliance and Feasibility Report

Consultant: Burgess & Niple, Inc.

ADOT Project No: T0428 03D

Contract No: 2024-001



Arizona Department of Transportation

December 2024



Table of Contents

1.0	Introduction	1
2.0	Methodology.....	3
3.0	ADA Facility Evaluation	4
3.1	Pedestrian Curb Ramps	6
3.2	Railing	8
3.3	Crosswalks	8
3.4	Sidewalk	10
3.5	Obstructions	12
3.6	Traffic Signals.....	12
3.7	Driveways.....	12

List of Figures

Figure 1: El Mirage Road Study Area.....	2
Figure 2: Pedestrian Curb Ramp Locations.....	7
Figure 3: Crosswalk Locations	9
Figure 4: Sidewalk Locations	11
Figure 5: Bushes Adjacent to Sidewalk	12

List of Tables

Table 1: El Mirage Road Pedestrian Facilities	4
Table 2: Summary of Action Items	4
Table 3: Curb Ramp PROWAG Technical Requirements.....	6
Table 4: Crosswalk PROWAG Technical Requirements	8
Table 5: Sidewalk PROWAG Technical Requirements.....	10

Appendices

- Appendix A – Pedestrian Curb Ramp Field Data
- Appendix B – Crosswalk Field Data
- Appendix C – Sidewalk Field Data



1.0 Introduction

This report is prepared for Arizona Department of Transportation (ADOT), Maricopa Association of Governments (MAG), City of Peoria (City), and Maricopa County Department of Transportation (MCDOT) by Burgess and Niple, Inc. for the El Mirage Road extension from Loop 303 to Jomax Road. (Project No. 2024-001).

El Mirage Road is located within the limits of City and within unincorporated Maricopa County. El Mirage Road from the SR 303L Traffic Interchange (TI) to north of Desert Sun Lane is located within unincorporated Maricopa County. El Mirage Road north of Desert Sun Lane to north of Jomax Road is within the City.

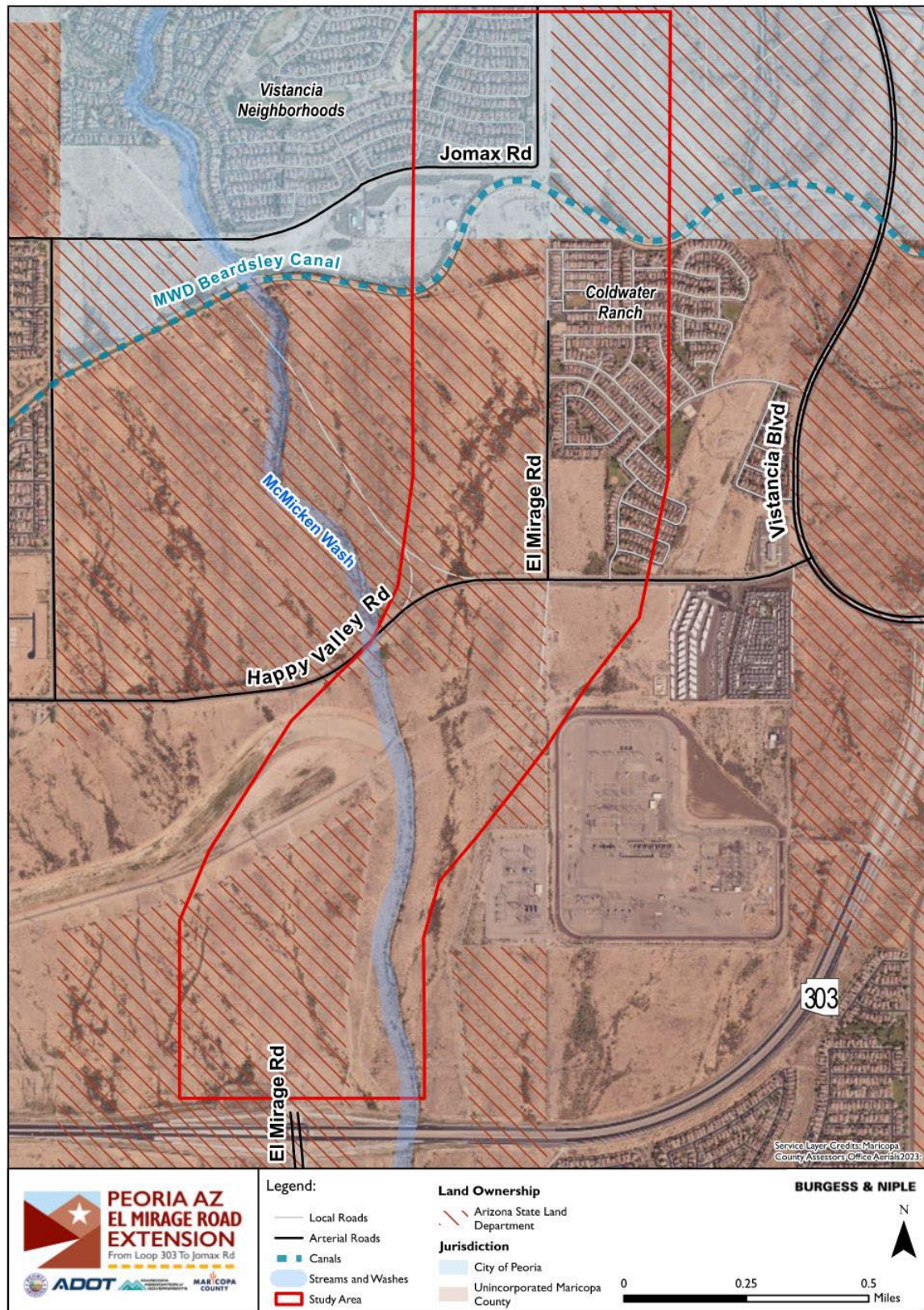
The project area investigated in this report begins at SR 303L and ends at Jomax Road. Existing El Mirage Road ends just north of the SR 303L TI and is discontinuous with segments from Happy Valley Road to Desert Sun Lane and from Jomax Road to Vistancia Boulevard. El Mirage Road currently is functionally classified as a minor arterial south of the SR 303L TI, a minor collector between Happy Valley Road and Desert Sun Lane, and a major collector north of Jomax Road. An evaluation of existing pedestrian facilities at the SR 303L TI is not included in this report. There are no existing pedestrian facilities between the SR 303L and Happy Valley Road and between Desert Sun Lane and Jomax Road.

The project's purpose is to identify gaps in the El Mirage Road alignment and recommend improvements to enhance connectivity between surrounding communities and the regional transportation system. Specifically, this project aims to create a high-volume connection at the existing SR 303L TI between north City and the rest of the region.

The purpose of this report is to assess the existing pedestrian facilities within the project area against the standards within the Americans with Disabilities Act (ADA) and the Public Right-of-Way Accessibility Guidelines (PROWAG) approved by the United States Access Board September 7, 2023. Existing facilities evaluated against ADA and PROWAG standards within the project area include pedestrian curb ramps, crosswalks, sidewalks, and obstructions. **Figure 1** illustrates the project area.



Figure 1: El Mirage Road Study Area





2.0 Methodology

The design team's assessment of whether existing facilities within the project area met or did not meet ADA and PROWAG criteria was completed in three sequential phases. Phase 1 focused on documenting and confirming the latest ADA and PROWAG policies and design criteria. Phase 2 focused on measuring, photographing, and documenting the design and location of the existing facilities encountered. Phase 3 focused on analyzing the data gathered in the field against the latest ADA and PROWAG policies and design criteria to assess whether facilities met the defined standards.

Phase 1: Facility Design and ADA Criteria

Criteria used to evaluate existing pedestrian facilities for ADA compliance were gathered from ADOT standards as well as PROWAG technical requirements. Although PROWAG has not been fully adopted by the United States Department of Justice/Department of Transportation (USDOJ/DOT), it is anticipated it will be adopted prior to this project undergoing construction. If PROWAG technical requirements are not approved prior to the project being constructed the City of Peoria would direct the most recently developed draft of PROWAG be followed as the best available practice. Facilities were determined to meet PROWAG if the standards set by the draft PROWAG, approved by the United States Access Board September 7, 2023, were met, and if the facility was in good condition.

Phase 2: Field Assessment

In August 2024 the study team completed a field inventory survey of existing pedestrian facilities within the project area. Measurements were performed of existing pedestrian curb ramps, safety rail, pedestrian crossings, and obstructions, documented in ArcGIS Field Maps, and photographed for reference. Potential concerns, defects, and irregularities were also documented within ArcGIS Field Maps and photographed for reference. Sidewalk within the project area was visually assessed. Locations with concerns and/or defects were measured, documented in ArcGIS Field Maps, and photographed for reference.

In addition to the field inventory survey of existing pedestrian facilities, the study team visually assessed existing roadway and traffic elements near the pedestrian facilities.

Phase 3: Data Analysis and Facility Review

Once field data was gathered, the study team proceeded with Phase 3. Facilities were organized into the following categories:

1. Pedestrian Curb Ramps
2. Handrail
3. Crosswalks
4. Sidewalk
5. Obstructions

Results of the site visit indicated of the 33 facilities investigated 10 features met the PROWAG technical requirements approved by the United States Access Board September 7, 2023 and 23



features did not meet the PROWAG technical requirements approved by the United States Access Board September 7, 2023. The results are detailed in **Table 1**.

Table 1: El Mirage Road Pedestrian Facilities

Feature Type	Met PROWAG	Did not Meet PROWAG	Total
Pedestrian Curb Ramps	2	6	8
Crosswalk	2	1	3
Sidewalk	6	16	22
Total	10	23	33

3.0 ADA Facility Evaluation

A summary of proposed actions for facilities that did not meet PROWAG technical requirements is detailed in **Table 2**.

Table 2: Summary of Action Items

Facility ID	Feature not Meeting PROWAG	Proposed Remediation
R-1	Landing cross slope greater than ramp cross slope	Reconstruct curb ramp
R-2	Landing cross slope greater than ramp cross slope	Reconstruct curb ramp
R-4	Horizontal gaps greater than 1/2".	Reconstruct curb ramp
R-5	Landing length is less than 48"	Reconstruct curb ramp
R-6	Landing length is less than 48"	Reconstruct curb ramp
R-8	Transitions not flush. Concrete damage at base of detectable warning surface causing horizontal opening greater than 1/2"	Bevel transitions to be flush
C-2	Cross slope greater than 2.1%	Regrade asphalt within crosswalk
S-1	Sidewalk attached to curb at intersection where no curb ramp is present and vertical change between panels greater than 1/4"	If crossing is permitted curb ramp should be constructed. If crossing is prohibited, sidewalk should be buffered, or vertical separation should be added.



Facility ID	Feature not Meeting PROWAG	Proposed Remediation
S-3	Vertical change between panels greater than 1/4"	Bevel raised panel with a 50% maximum slope
S-4	Horizontal opening greater than 1/2"	Reconstruct sidewalk
S-5	Vertical change between panels greater than 1/4"	Bevel raised panel with a 50% maximum slope
S-6	Vertical change between panels greater than 1/4"	Bevel raised panel with a 50% maximum slope
S-7	Horizontal opening greater than 1/2"	Reconstruct sidewalk
S-8	Damage at joint causing horizontal opening greater than 1/2"	Repair damaged concrete location or reconstruct sidewalk
S-9	Horizontal opening greater than 1/2" at panel edge	Repair damaged edge
S-11	Vertical change between panels greater than 1/4", edge damage	Reconstruct sidewalk
S-12	Vertical change between panels greater than 1/4"	Bevel raised panel with an 8.3% maximum slope
S-13	Damage at joint causing horizontal opening greater than 1/2"	Repair damaged concrete location or reconstruct sidewalk
S-14	Damage at joint causing horizontal opening greater than 1/2"	Repair damaged concrete location or reconstruct sidewalk
S-15	Horizontal opening greater than 1/2"	Reconstruct sidewalk
S-17	Panels lifted above curb at joint, greater than 1/4"	Reconstruct sidewalk
S-19	Horizontal opening greater than 1/2"	Reconstruct sidewalk
S-21	Vertical change between panels greater than 1/4"	Bevel raised panel with an 8.3% maximum slope



3.1 Pedestrian Curb Ramps

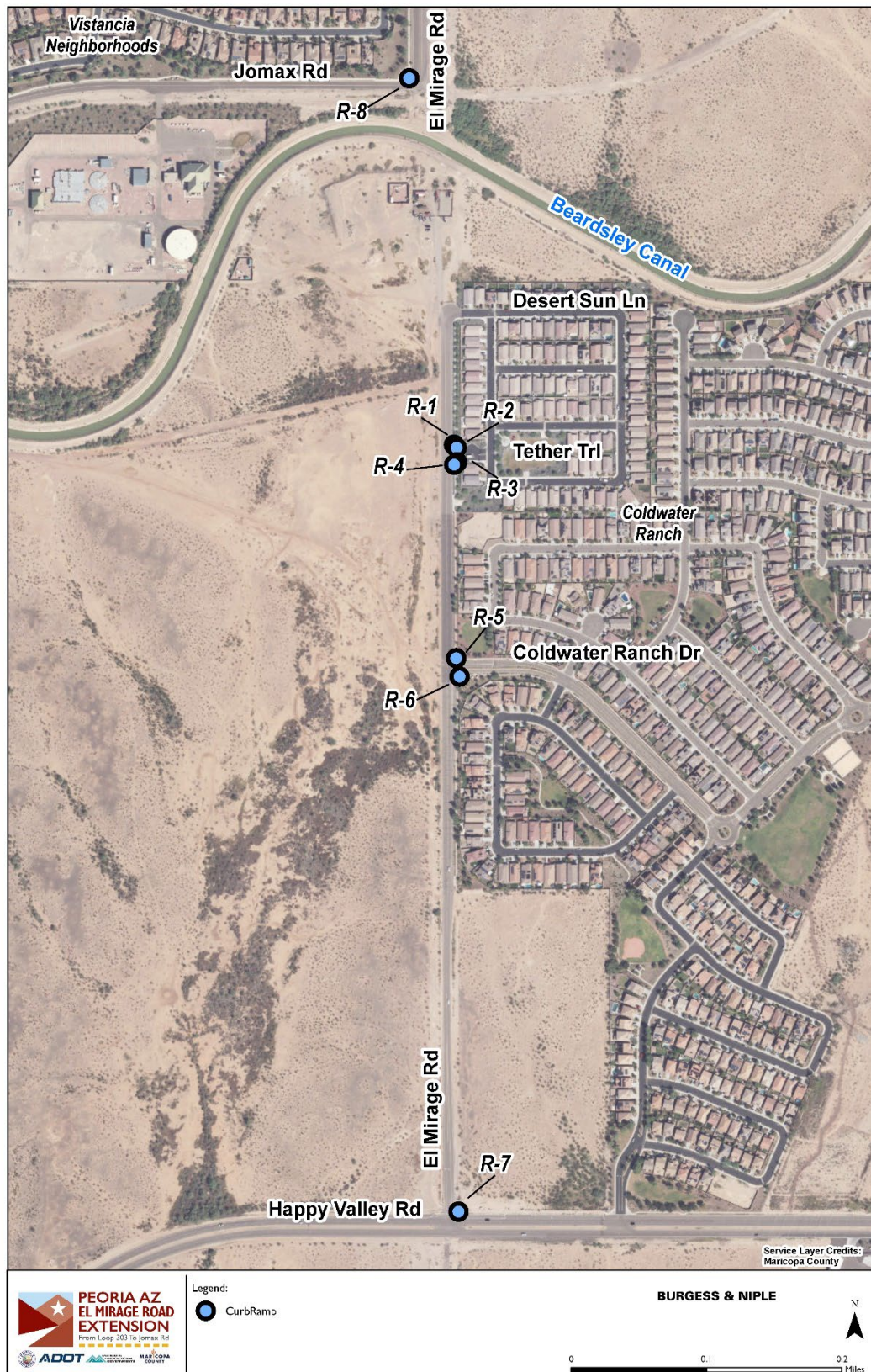
A total of eight curb ramp locations throughout the project area were evaluated against the PROWAG technical requirements for pedestrian curb ramps presented in **Table 3**. **Figure 2** illustrates the pedestrian curb ramp locations within the project area. Two of the eight curb ramp locations met the PROWAG requirements approved by the United States Access Board September 7, 2023. Field data collected for each curb ramp location is provided in **Appendix A**.

Table 3: Curb Ramp PROWAG Technical Requirements

Criteria	Value	PROWAG Section Reference
Ramp Running Slope	1:12 (8.3%) maximum Ramp length to not exceed 15'	R304.2.1 R304.3.1
Cross Slope	1:48 (2.1%) maximum	R304.2.1
Detectable Warning	0.9"-1.4" base diameter of truncated domes Contrast visually with adjacent walking surfaces. Surfaces shall extend 24" in direction of travel and extend full width of ramp run. Placed back of curb or no greater than 6" from edge of pavement	R305.1.1 R305.1.3 R305.1.4 R305.2.1
Grade Breaks	Flush and perpendicular to the direction of the curb ramp run at top and bottom of ramp runs and landings	R304.2.3
Clear Area	48" wide by 48" long minimum	R304.2.4
Landing	48" wide by 48" long minimum Landing slope perpendicular to curb ramp run shall be less than or equal to the cross slope of the curb ramp run. 1:48 (2.1%) maximum slope parallel to curb ramp run	R304.2.5
Side Treatments	Flared and 1:10 (10%) maximum measured parallel to adjacent curb line	R304.2.6
Change of Grade	Change of grade to not exceed 13.3%	R304.5.2
At an Intersection	One curb ramp for each crosswalk, or a single blended transition that spans all crosswalks at the intersection corner	R203.6.1.1



Figure 2: Pedestrian Curb Ramp Locations





3.2 Railing

There are no existing handrails within the limits of the project.

A total of three safety rail locations, which provide vertical protection near drainage structures, were measured in the field. Safety rail was observed in the following locations:

- 140' south of El Mirage Road and Tether Lane, adjacent to sidewalk
- 60' south of Coldwater Ranch Drive, 11' east of sidewalk.
- 800' south of El Mirage Road and Coldwater Ranch Drive, 18' east of sidewalk

3.3 Crosswalks

A total of three unmarked crosswalk locations throughout the project area were evaluated against the PROWAG technical requirements for crosswalks are presented in **Table 4**. The crosswalk locations are defined as C-1, C-2, and C-3 and are illustrated in **Figure 3**. Two of the three pedestrian crossing locations met the PROWAG requirements approved by the United States Access Board September 7, 2023. Field data collected for each crosswalk location is provided in **Appendix B**.

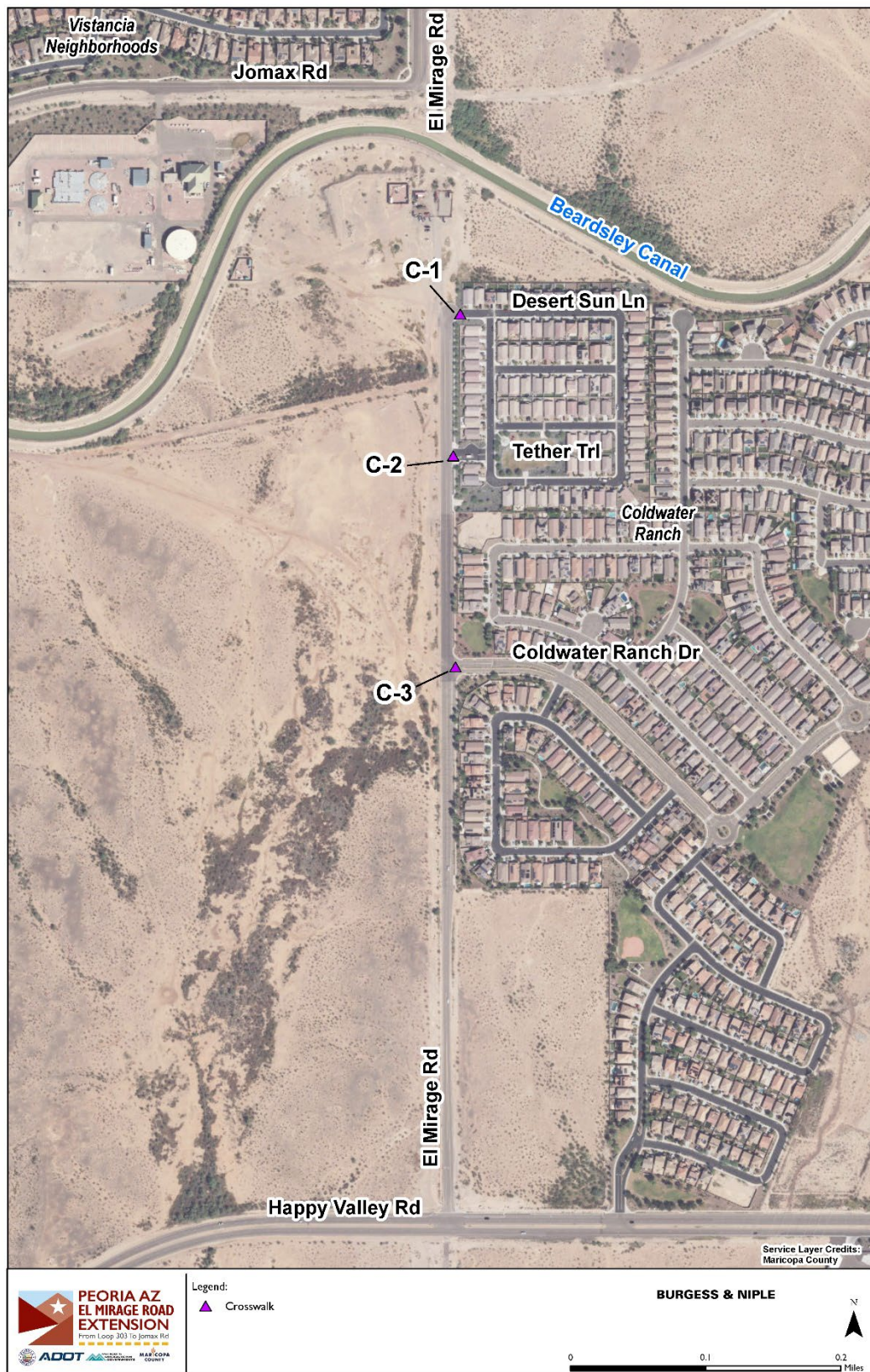
Table 4: Crosswalk PROWAG Technical Requirements

Criteria	Value	PROWAG Section Reference
Cross Slope	1:48 (2.1%) maximum within a crosswalk at an intersection approach with yield or stop control devices.	R302.5.2.1
	1:20 (5.0%) maximum within a crosswalk at an uncontrolled approach.	R302.5.2.2
Running Slope	5% maximum unless required roadway superelevation is greater than 5%	R302.4.3
Changes in Elevation	Vertical changes should not exceed 1/4"; if between 1/4" and 1/2", the edge must be beveled to a 50% maximum slope. If between 1/2" and 6", the edge must be bevel to an 8.3% maximum slope.	R302.6.2

No crosswalks were evaluated at the Happy Valley Road and El Mirage Road intersection and the Jomax Road and El Mirage Road intersection. Pedestrian curb ramp R-7 is located in the northeast corner of the Happy Valley Road and El Mirage Road intersection. No other pedestrian facilities were found at the intersection. Pedestrian curb ramp R-8 is located in the northwest corner of the Jomax Road and El Mirage Road intersection. No pedestrian facilities are present on the south side of Jomax Road or on the east side of El Mirage Road at the intersection.



Figure 3: Crosswalk Locations





3.4 Sidewalk

A total of 22 sidewalk spot locations throughout the project area were evaluated against the PROWAG technical requirements presented in **Table 5**. Sidewalk locations are illustrated in **Figure 4**. Six of these locations met the PROWAG requirements approved by the United States Access Board September 7, 2023. There were multiple locations with approximate one-inch gaps between the panels. Field data collected for evaluated sidewalk facilities are provided in **Appendix C**.

Table 5: Sidewalk PROWAG Technical Requirements

Criteria	Value	PROWAG Section Reference
Width	48" minimum	R302.2
Horizontal Openings	1/2" maximum	R302.6.3
Changes in Elevation	Vertical changes should not exceed 1/4"; if between 1/4" and 1/2", the edge must be beveled to a 50% maximum slope. If between 1/2" and 6", the edge must be beveled to an 8.3% maximum slope.	R302.6.2
Cross Slope	1:48 (2.1%) maximum	R302.5.1
Running Slope	1:20 (5%) maximum unless follows natural grade	R302.4.1
Pedestrian Circulation Path at Intersection	If crossing is prohibited the pedestrian circulation path is separated from the roadway by an unprepared surface or (b) separated from the roadway by a detectable vertical edge treatment with a bottom edge 15 inches maximum above the pedestrian circulation path.	R203.6.1.1

Detailed survey was not obtained for this phase of the project. During final design detailed survey should be completed, and a comprehensive sidewalk assessment should be completed at that time.



Figure 4: Sidewalk Locations





3.5 Obstructions

No visible pedestrian obstructions were observed within the project area. From approximately 500 feet to 750 feet south of the intersection of El Mirage Road and Coldwater Ranch Drive, bushes adjacent to the sidewalk had been trimmed back outside the limit of the sidewalk. If the bushes are not maintained, the bushes have the potential to become a sidewalk obstruction. **Figure 5** displays a typical location where the bushes have been trimmed.

Figure 5: Bushes Adjacent to Sidewalk



Existing tree canopies are present above the sidewalk. Trees should be maintained to provide at least 80 inches of vertical clearance above the sidewalk as detailed in PROWAG section 402.4.

3.6 Traffic Signals

There were no existing signals found within the project limits during the field assessment.

3.7 Driveways

There were no existing driveways found within the project limits during the field assessment.



Appendix A – Pedestrian Curb Ramp Field Data



Curb Ramp 1

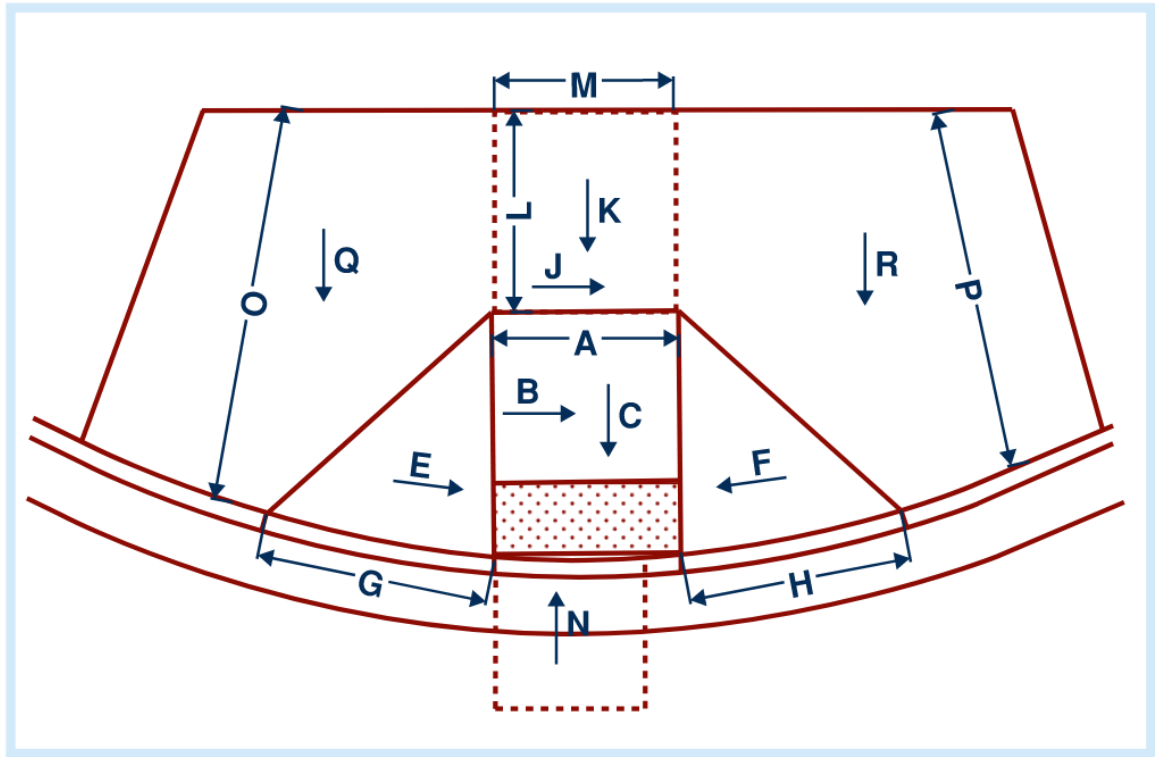
Location
Northeast corner of Mirage Road and
Tether Trail

Type
Perpendicular

ADA Compliance
Non-Compliant

Comments
Ramp is non-compliant due to top landing
cross slope being greater than curb ramp
cross slope.

ID	Feature	Results	Units
A	Curb Ramp Width	63	In
B	Curb Ramp Cross Slope	0.3	%
C	Curb Ramp Running Slope	3.8	%
D	Ramp Flare(s) Present?	Yes	
E	Left Flare Running Slope	5.1	%
F	Right Flare Running Slope	2.9	%
G	Left Flare Length	54	In
H	Right Flare Length	77	In
I	Top Landing Present?	Yes	
J	Top Landing Cross Slope	0.4	%
K	Top Landing Running Slope	0.3	%
L	Top Landing Length	58	In
M	Top Landing Width	63	In
N	Gutter Slope	1.6	%
O	Left Sidewalk Width	146	In
P	Right Sidewalk Width	144	In
Q	Left Sidewalk Cross Slope	0.0	%
R	Right Sidewalk Cross Slope	1.0	%
S	Detectable Warning Present?	Yes	
T	Transitions Flush?	Yes	
	Marked Crosswalk Present?	No	
	Ramp within Crosswalk?	N/A	
	Condition of Marked Crosswalk?	N/A	
	Crosswalk Clear Space?	Yes	
	Ramp Blocked by Legal Parking?	No	





Curb Ramp 2

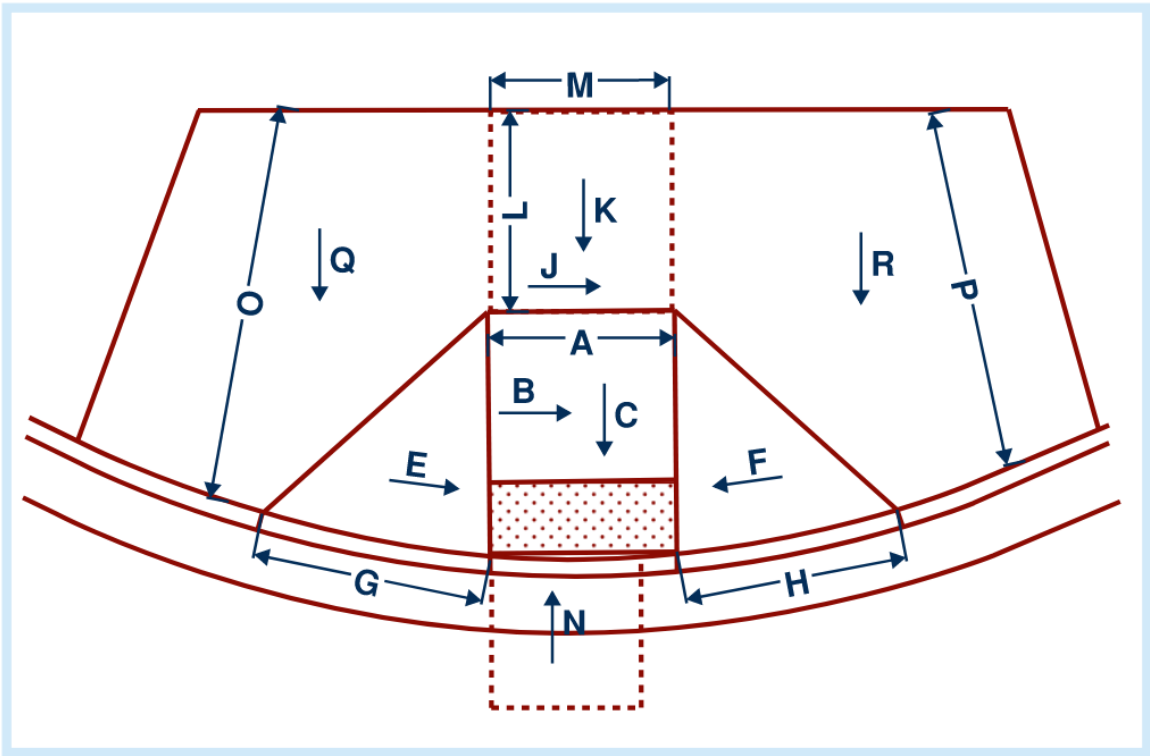
Location
Northeast corner of El Mirage Road
and Tether Trail

Type
Perpendicular

ADA Compliance
Non-Compliant

Comments
Ramp is non-compliant due to top
landing cross slope being greater
than curb ramp cross slope.

ID	Feature	Results	Units
A	Curb Ramp Width	61	In
B	Curb Ramp Cross Slope	0.3	%
C	Curb Ramp Running Slope	3.3	%
D	Ramp Flare(s) Present?	Yes	
E	Left Flare Running Slope	3.5	%
F	Right Flare Running Slope	5.6	%
G	Left Flare Length	77	In
H	Right Flare Length	53	In
I	Top Landing Present?	Yes	
J	Top Landing Cross Slope	0.5	%
K	Top Landing Running Slope	0.3	%
L	Top Landing Length	60	In
M	Top Landing Width	61	In
N	Gutter Slope	2.6	%
O	Left Sidewalk Width	62	In
P	Right Sidewalk Width	117	In
Q	Left Sidewalk Cross Slope	0.8	%
R	Right Sidewalk Cross Slope	0.3	%
S	Detectable Warning Present?	Yes	
T	Transitions Flush?	Yes	
	Marked Crosswalk Present?	No	
	Ramp within Crosswalk?	N/A	
	Condition of Marked Crosswalk?	N/A	
	Crosswalk Clear Space?	Yes	
	Ramp Blocked by Legal Parking?	No	





Curb Ramp 3

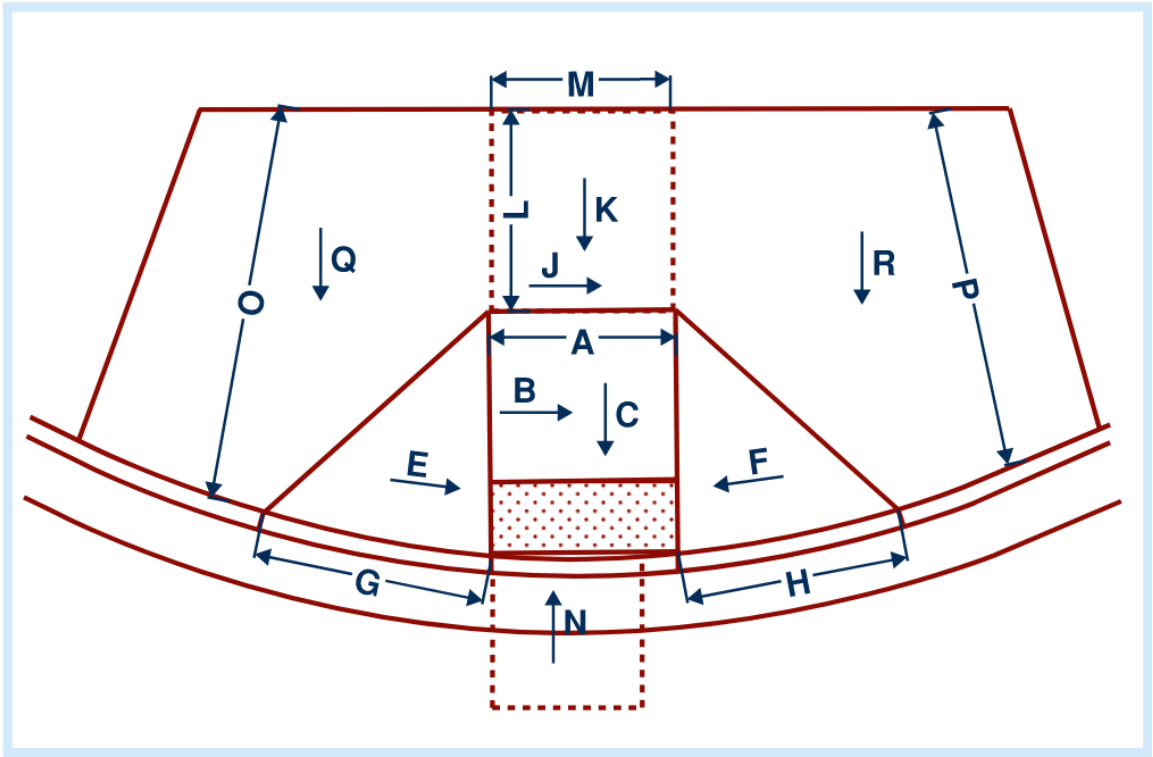
Location
Southeast corner of El Mirage Road and
Tether Trail

Type
Perpendicular

ADA Compliance
Compliant

Comments
Surface damage observed including
scratches, poorly screened areas, and
cracking.

ID	Feature	Results	Units
A	Curb Ramp Width	60	In
B	Curb Ramp Cross Slope	0.4	%
C	Curb Ramp Running Slope	4	%
D	Ramp Flare(s) Present?	Yes	
E	Left Flare Running Slope	4.3	%
F	Right Flare Running Slope	5.9	%
G	Left Flare Length	78	In
H	Right Flare Length	53	In
I	Top Landing Present?	Yes	
J	Top Landing Cross Slope	0.2	%
K	Top Landing Running Slope	0.5	%
L	Top Landing Length	64	In
M	Top Landing Width	61	In
N	Gutter Slope	0.5	%
O	Left Sidewalk Width	151	In
P	Right Sidewalk Width	146	In
Q	Left Sidewalk Cross Slope	0.6	%
R	Right Sidewalk Cross Slope	0.7	%
S	Detectable Warning Present?	Yes	
T	Transitions Flush?	Yes	
	Marked Crosswalk Present?	No	
	Ramp within Crosswalk?	N/A	
	Condition of Marked Crosswalk?	N/A	
	Crosswalk Clear Space?	Yes	
	Ramp Blocked by Legal Parking?	No	





Curb Ramp 4

Location
Southeast corner of El Mirage Road and Tether Trail

Type
Perpendicular

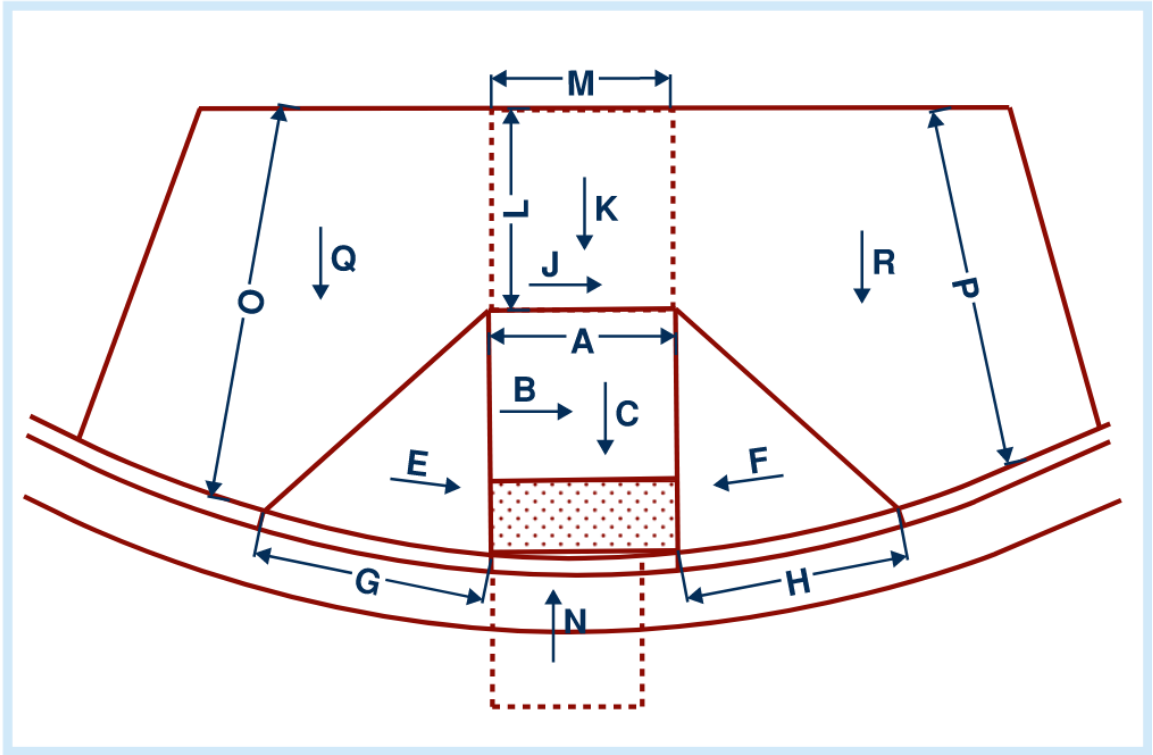
ADA Compliance
Non-Compliant

Comments
Vertical (<1/4”) and horizontal gap (>1/2”) between detectable warning and base of ramp.

Ramp is non-compliant due to horizontal gaps greater than 1/2”.



ID	Feature	Results	Units
A	Curb Ramp Width	60	In
B	Curb Ramp Cross Slope	1.2	%
C	Curb Ramp Running Slope	3.5	%
D	Ramp Flare(s) Present?	Yes	
E	Left Flare Running Slope	5.7	%
F	Right Flare Running Slope	2.4	%
G	Left Flare Length	54	In
H	Right Flare Length	64	In
I	Top Landing Present?	Yes	
J	Top Landing Cross Slope	0.6	%
K	Top Landing Running Slope	0.8	%
L	Top Landing Length	49	In
M	Top Landing Width	60	In
N	Gutter Slope	1.8	%
O	Left Sidewalk Width	146	%
P	Right Sidewalk Width	62	In
Q	Left Sidewalk Cross Slope	0.3	%
R	Right Sidewalk Cross Slope	0.4	%
S	Detectable Warning Present?	Yes	
T	Transitions Flush?	Yes	
	Marked Crosswalk Present?	No	
	Ramp within Crosswalk?	N/A	
	Condition of Marked Crosswalk?	N/A	
	Crosswalk Clear Space?	Yes	
	Ramp Blocked by Legal Parking?	No	





Curb Ramp 5

Location
Northeast corner of El Mirage Road and Coldwater Ranch Drive

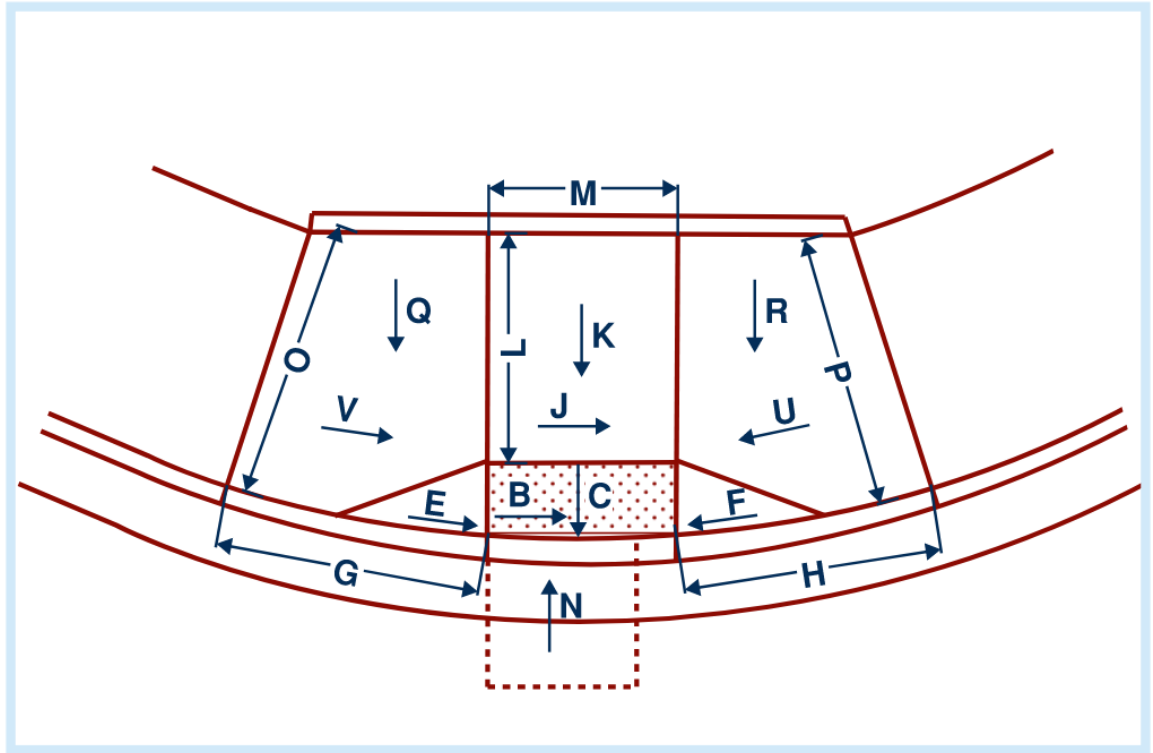
Type
Combination

ADA Compliance
Non-Compliant

Comments
Horizontal gaps in panels approximately 1". Wear present on curb and warning Surface.

Ramp is non-compliant due to top landing length being less than 48" and horizontal panel gaps greater than 1/2".

ID	Feature	Results	Units
A	Curb Ramp Width	70.5	In
B	Curb Ramp Cross Slope	1.2	%
C	Curb Ramp Running Slope	1.6	%
D	Ramp Flare(s) Present?	Yes	
E	Left Flare Running Slope	3.7	%
F	Right Flare Running Slope	2.2	%
G	Left Flare Length	54.5	In
H	Right Flare Length	55.5	In
I	Top Landing Present?	Yes	
J	Top Landing Cross Slope	1.2	%
K	Top Landing Running Slope	0.1	%
L	Top Landing Length	40	In
M	Top Landing Width	70.5	In
N	Gutter Slope	0.5	%
O	Left Sidewalk Width	60	In
P	Right Sidewalk Width	60	In
Q	Left Sidewalk Cross Slope	0	%
R	Right Sidewalk Cross Slope	0.7	%
S	Detectable Warning Present?	Yes	
T	Transitions Flush?	Yes	
U	Right Sidewalk Running Slope	2.3	%
V	Left Sidewalk Running Slope	2.9	%
	Marked Crosswalk Present?	No	%
	Ramp within Crosswalk?	No	
	Condition of Marked Crosswalk?	N/A	
	Crosswalk Clear Space?	Yes	
	Ramp Blocked by Legal Parking?	No	





Curb Ramp 6

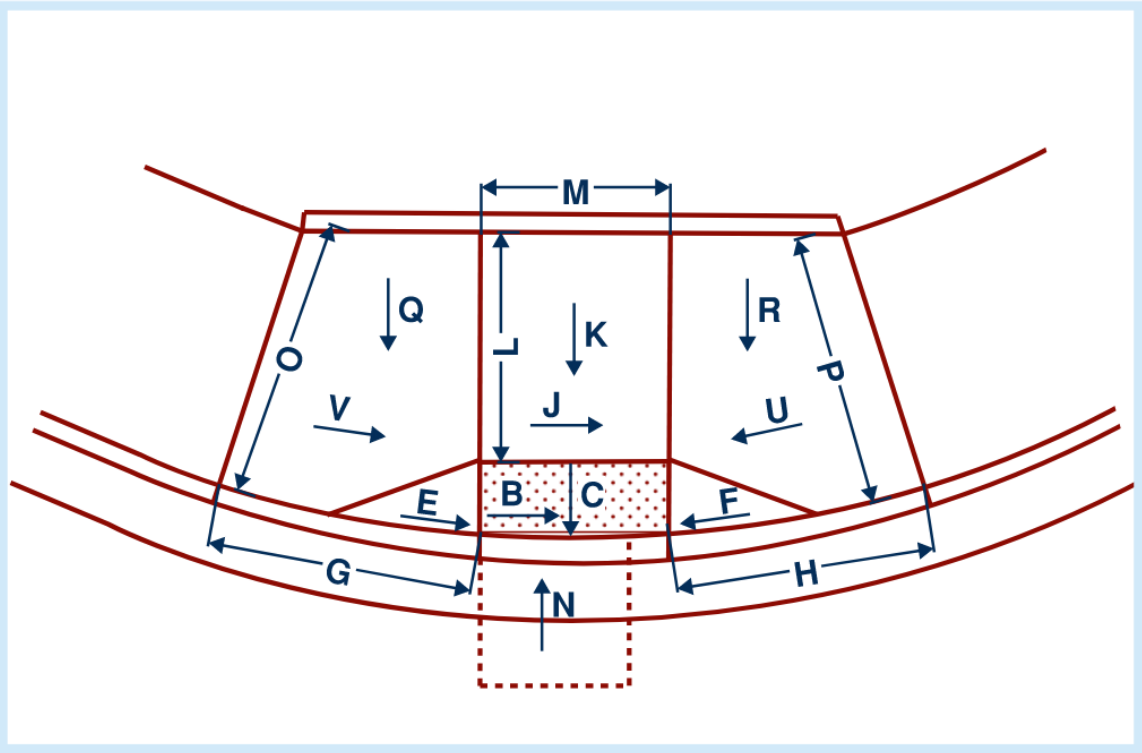
Location
Southeast corner of El Mirage Road and Coldwater Ranch Drive

Type
Combination

ADA Compliance
Not Compliant

Comments
Ramp is non-compliant due to ramp cross slope being greater than 2.1% and due to the top landing length being less than 48”.

ID	Feature	Results	Units
A	Curb Ramp Width	70	In
B	Curb Ramp Cross Slope	2.5	%
C	Curb Ramp Running Slope	3.8	%
D	Ramp Flare(s) Present?	Yes	
E	Left Flare Running Slope	3.6	%
F	Right Flare Running Slope	4.8	%
G	Left Flare Length	54	In
H	Right Flare Length	55	In
I	Top Landing Present?	Yes	
J	Top Landing Cross Slope	0.6	%
K	Top Landing Running Slope	1.1	%
L	Top Landing Length	39.5	In
M	Top Landing Width	70	In
N	Gutter Slope	2.5	%
O	Left Sidewalk Width	59	In
P	Right Sidewalk Width	60	In
Q	Left Sidewalk Cross Slope	0.3	%
R	Right Sidewalk Cross Slope	0.6	%
S	Detectable Warning Present?	Yes	
T	Transitions Flush?	Yes	
U	Right Sidewalk Running Slope	2.1	%
V	Left Sidewalk Running Slope	3.2	%
	Marked Crosswalk Present?	No	
	Ramp within Crosswalk?	N/A	
	Condition of Marked Crosswalk?	N/A	
	Crosswalk Clear Space?	Yes	
	Ramp Blocked by Legal Parking?	No	





Curb Ramp 7

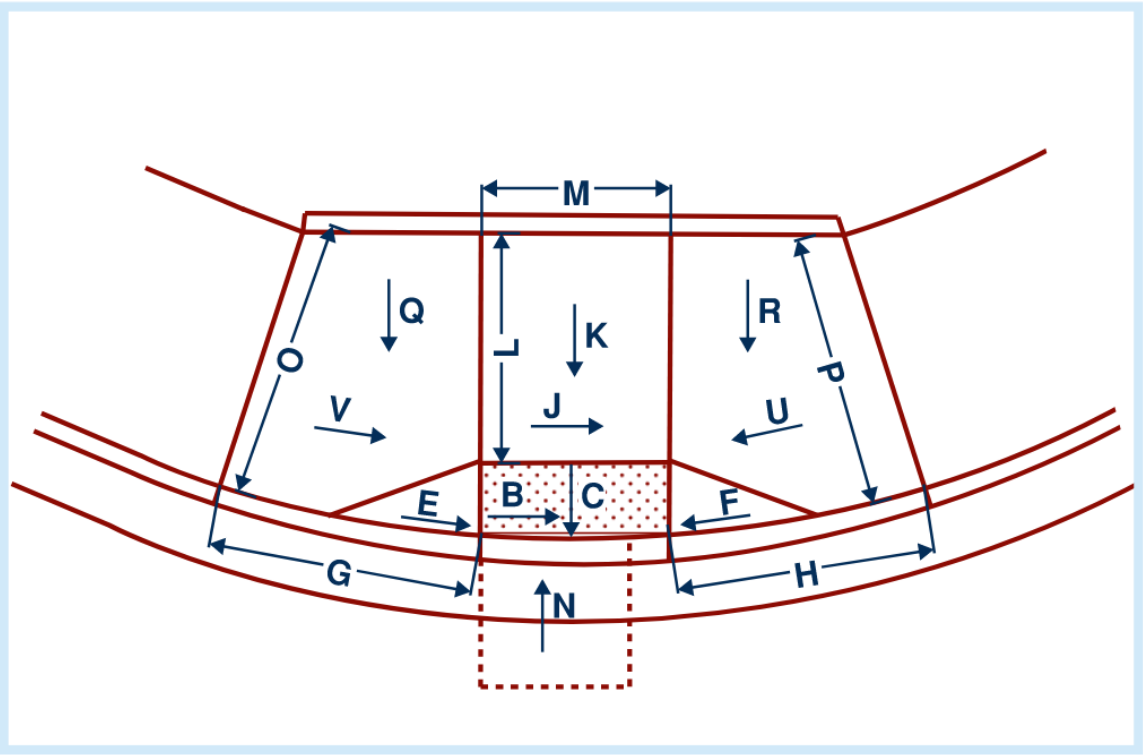
Location
Northeast corner of El Mirage Road and Happy Valley Road

Type
Combination

ADA Compliance
Compliant

Comments
Rock and dirt observed on ramp surface.

ID	Feature	Results	Units
A	Curb Ramp Width	92	In
B	Curb Ramp Cross Slope	0.8	%
C	Curb Ramp Running Slope	1	%
D	Ramp Flare(s) Present?	Yes	
E	Left Flare Running Slope	1.7	%
F	Right Flare Running Slope	1	%
G	Left Flare Length	55	In
H	Right Flare Length	64	In
I	Top Landing Present?	Yes	
J	Top Landing Cross Slope	0.8	%
K	Top Landing Running Slope	1	%
L	Top Landing Length	63	In
M	Top Landing Width	92	In
N	Gutter Slope	0.7	%
O	Left Sidewalk Width	63	In
P	Right Sidewalk Width	58.5	In
Q	Left Sidewalk Cross Slope	0.9	%
R	Right Sidewalk Cross Slope	1.7	%
S	Detectable Warning Present?	Yes	
T	Transitions Flush?	Yes	
U	Right Sidewalk Running Slope	2.8	%
V	Left Sidewalk Running Slope	2.4	%
	Marked Crosswalk Present?	No	
	Ramp within Crosswalk?	N/A	
	Condition of Marked Crosswalk?	N/A	
	Crosswalk Clear Space?	Yes	
	Ramp Blocked by Legal Parking?	No	





Curb Ramp 8

Location
Northwest corner of El Mirage Road and Jomax Road

Type
Combination

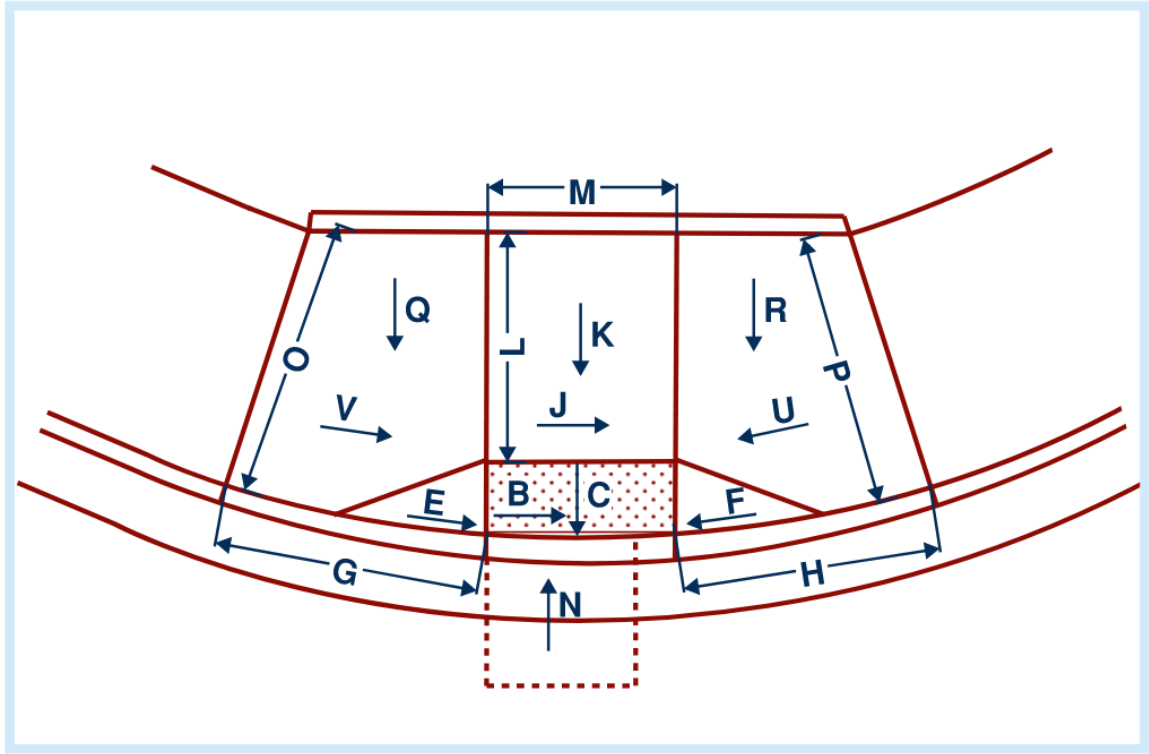
ADA Compliance
Non-compliant

Comments
Concrete at base of ramp has deteriorated creating a horizontal opening greater than 1/2". Vertical openings greater than 1/4".

Ramp is non-compliant due transitions not being flush, including vertical openings greater than 1/4" and horizontal openings greater than 1/2".



ID	Feature	Results	Units
A	Curb Ramp Width	63.5	In
B	Curb Ramp Cross Slope	0.3	%
C	Curb Ramp Running Slope	0.4	%
D	Ramp Flare(s) Present?	Yes	
E	Left Flare Running Slope	1.2	%
F	Right Flare Running Slope	1.5	%
G	Left Flare Length	53	In
H	Right Flare Length	52.5	In
I	Top Landing Present?	Yes	
J	Top Landing Cross Slope	0.3	%
K	Top Landing Running Slope	1.2	%
L	Top Landing Length	73	In
M	Top Landing Width	63.5	In
N	Gutter Slope	0.8	%
O	Left Sidewalk Width	95	In
P	Right Sidewalk Width	96.5	In
Q	Left Sidewalk Cross Slope	1.1	%
R	Right Sidewalk Cross Slope	1.5	%
S	Detectable Warning Present?	Yes	
T	Transitions Flush?	No	
U	Right Sidewalk Running Slope	1.7	%
V	Left Sidewalk Running Slope	2.0	%
	Marked Crosswalk Present?	No	
	Ramp within Crosswalk?	N/A	
	Condition of Marked Crosswalk?	N/A	
	Crosswalk Clear Space?	Yes	
	Ramp Blocked by Legal Parking?	No	





Appendix B – Crosswalk Field Data



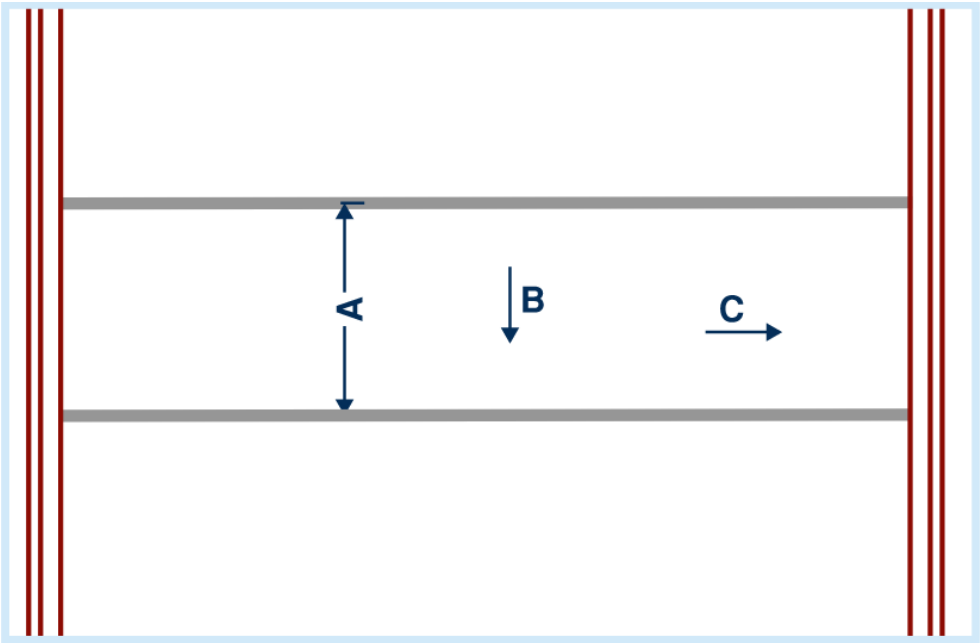
Crosswalk 1

Location: El Mirage Road crossing Desert Sun Lane

ADA Compliance: Compliant

Comments: 5’ wide attached sidewalk on south side. No sidewalk ramps present. Desert Sun Lane is stop controlled.

ID	Feature	Results	Units
	Crosswalk Markings Present?	No	
A	Width	N/A	In
B	Cross Slope	1.6	%
C	Running Slope	2.8	%
	Signalized?	No	





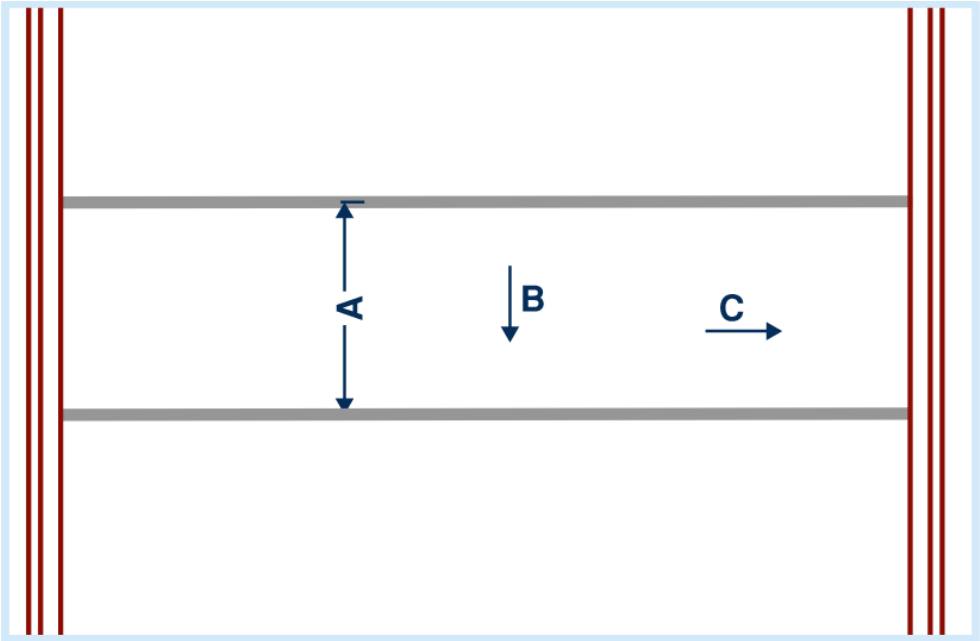
Crosswalk 2

Location: El Mirage Road crossing Tether Trail

ADA Compliance: Non-Compliant. Cross slope is greater than 2.1%.

Comments: Tether Trail is stop controlled.

ID	Feature	Results	Units
	Crosswalk Markings Present?	No	
A	Width	N/A	In
B	Cross Slope	2.9	%
C	Running Slope	1.2	%
	Signalized?	No	





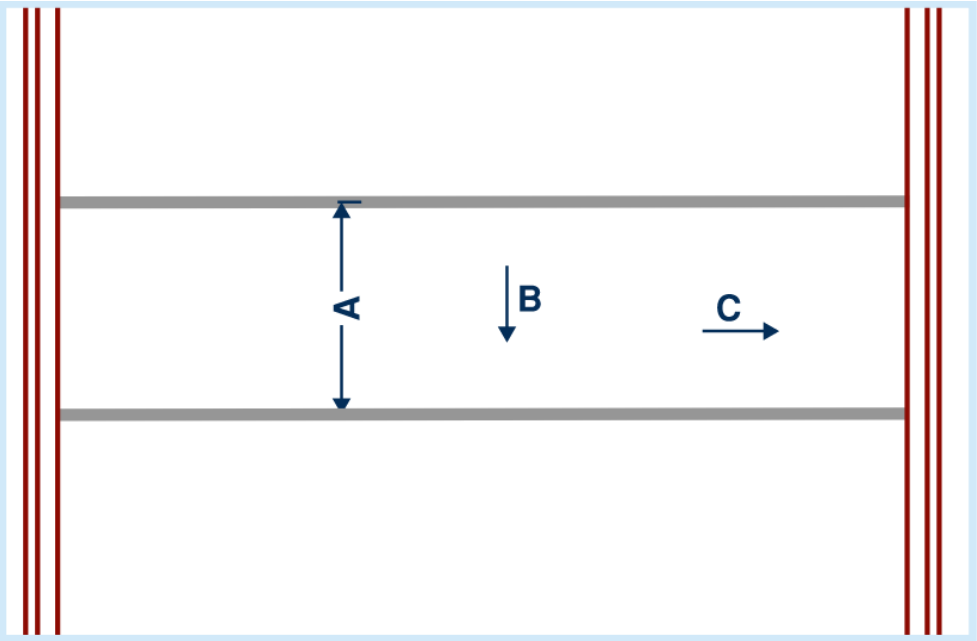
Crosswalk 3

Location: El Mirage Road crossing Coldwater Ranch Drive.

ADA Compliance: Compliant

Comments: Coldwater Ranch Drive is stop controlled.

ID	Feature	Results	Units
	Crosswalk Markings Present?	No	
A	Width	N/A	In
B	Cross Slope	1.8	%
C	Running Slope	1.2	%
	Signalized?	No	





Appendix C – Sidewalk Field Data



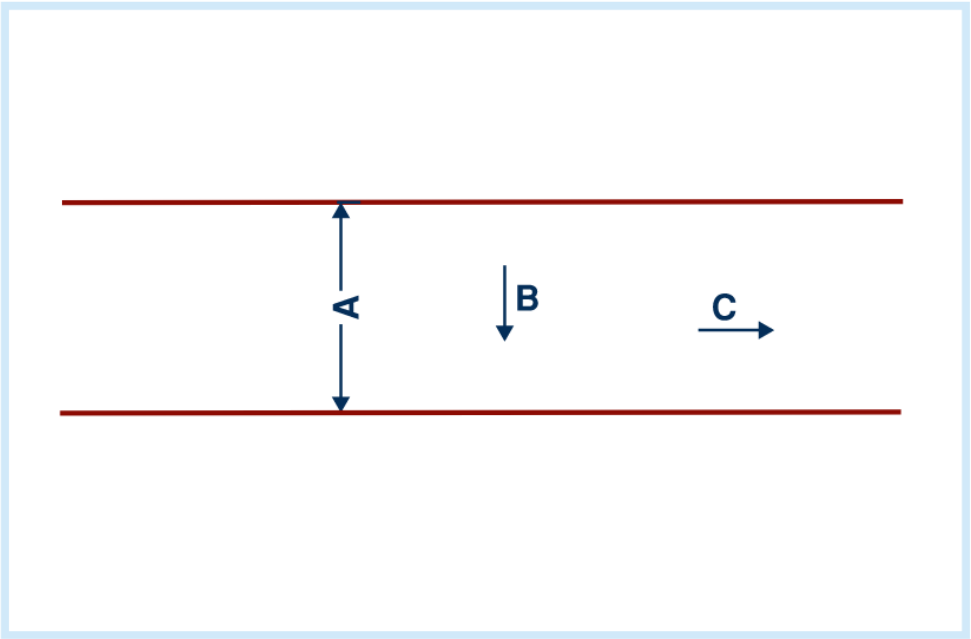
Sidewalk 1

Location: North facing corner of El Mirage Road and Desert Sun Lane

Comments: Change in level and cracking at joints. Sidewalk is attached at intersection. If crossing is prohibited, sidewalk should be buffered, or vertical separation should be added. If crossing is permitted curb ramp should be constructed.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	62.5	In
B	Cross Slope	0.4	%
C	Running Slope	0.8	%
	Vertical Opening Greater than 1/4”?	Yes	
	Horizontal Opening Greater than 1/2”?	No	





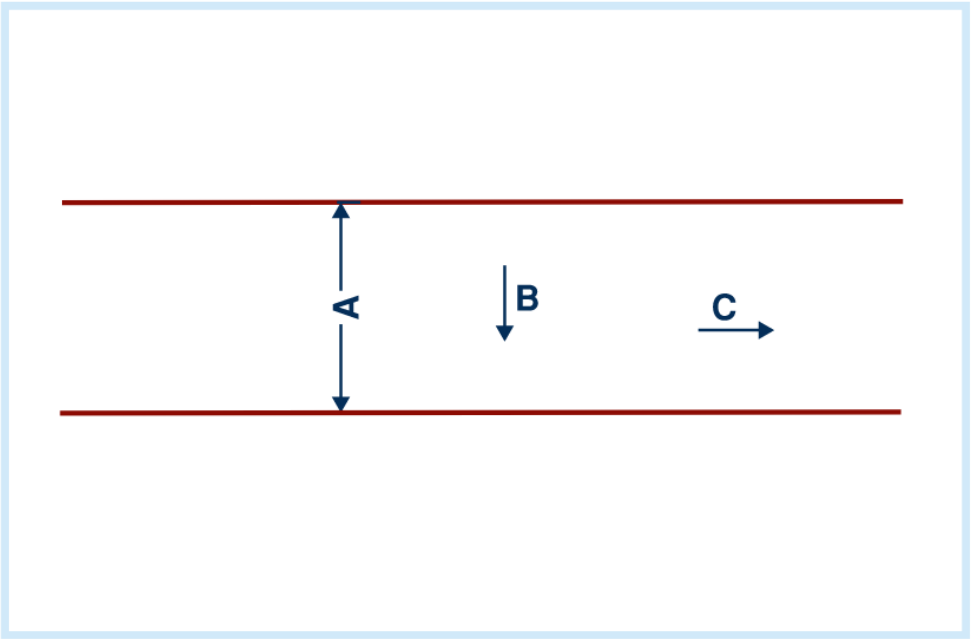
Sidewalk 2

Location: 240’ south of El Mirage Road and Desert Sun Lane

Comments: Surface texture present.

ADA Compliance: Compliant

ID	Feature	Results	Units
A	Width	61	In
B	Cross Slope	0.0	%
C	Running Slope	0.0	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	No	





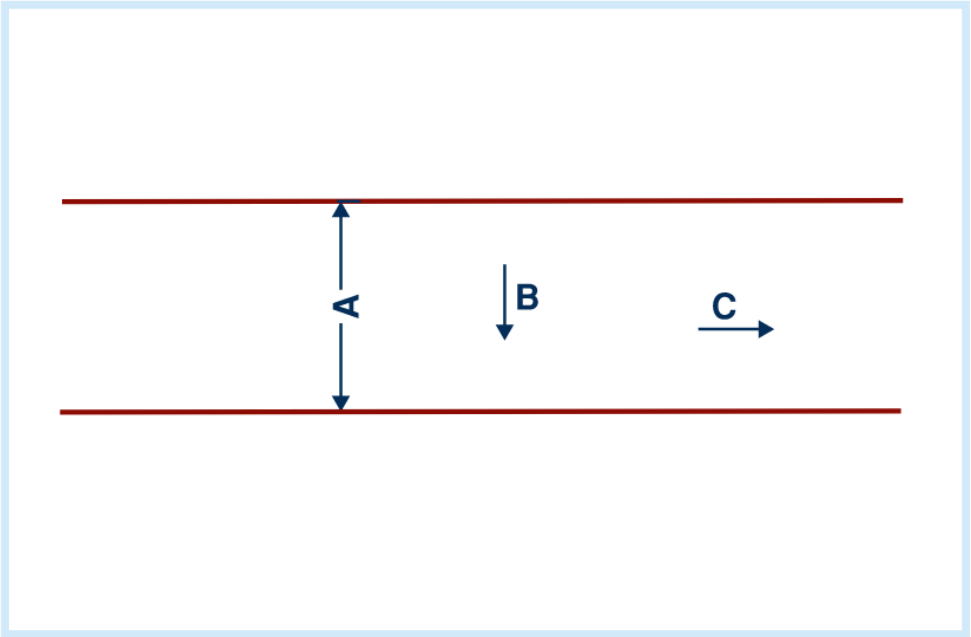
Sidewalk 3

Location: 440’ south of El Mirage Road and Desert Sun Lane

Comments: Surface texture present.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	60.5	In
B	Cross Slope	0.9	%
C	Running Slope	0.6	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	Yes	





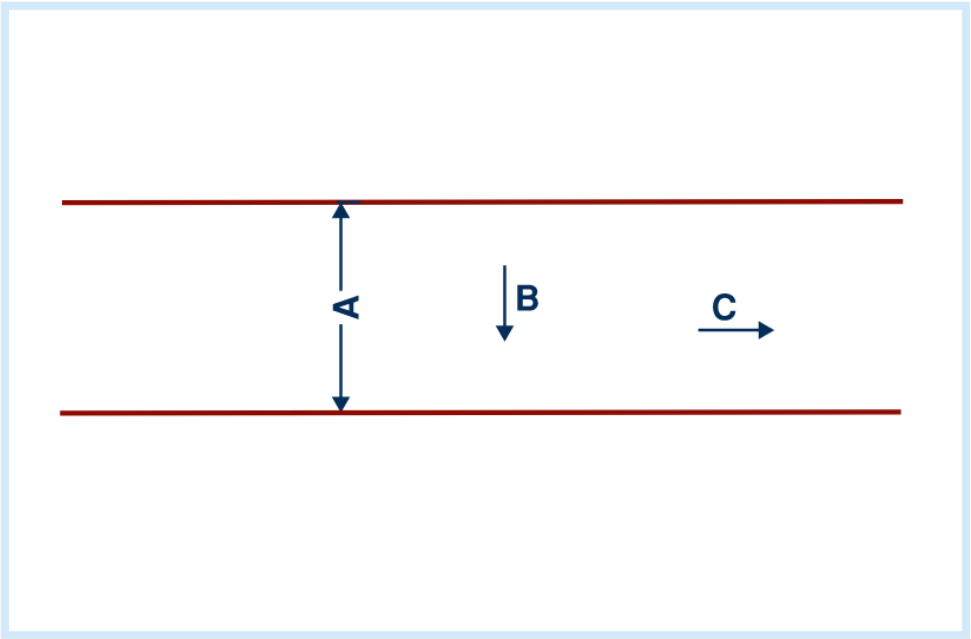
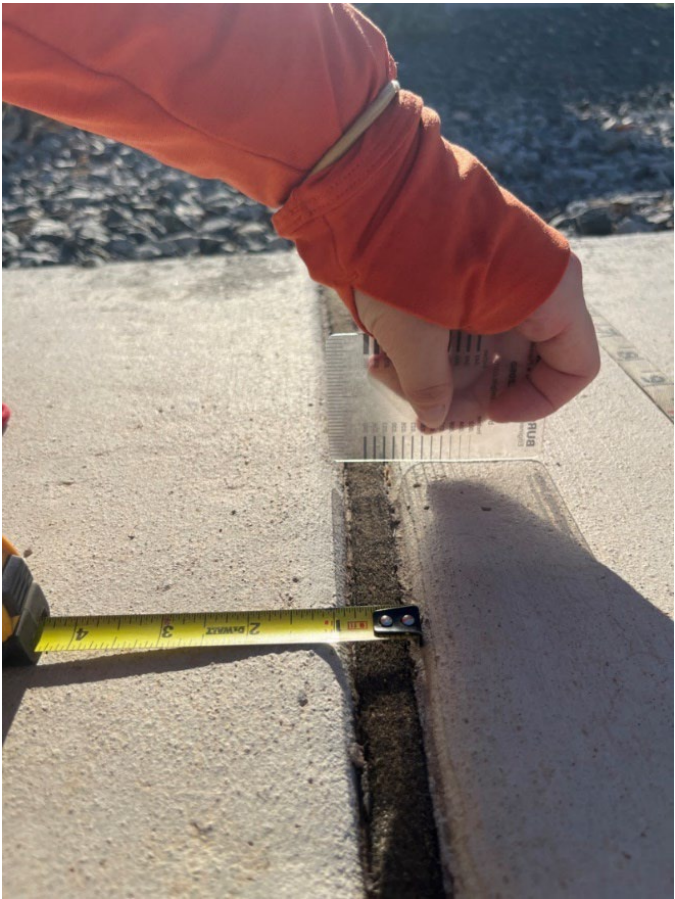
Sidewalk 4

Location: 470' south of El Mirage Road and Desert Sun Lane

Comments: Texture and cracking present along edge closest to El Mirage Rd.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	60	In
B	Cross Slope	0.6	%
C	Running Slope	0.7	%
	Vertical Opening Greater than 1/4"?	No	
	Horizontal Opening Greater than 1/2"?	Yes	





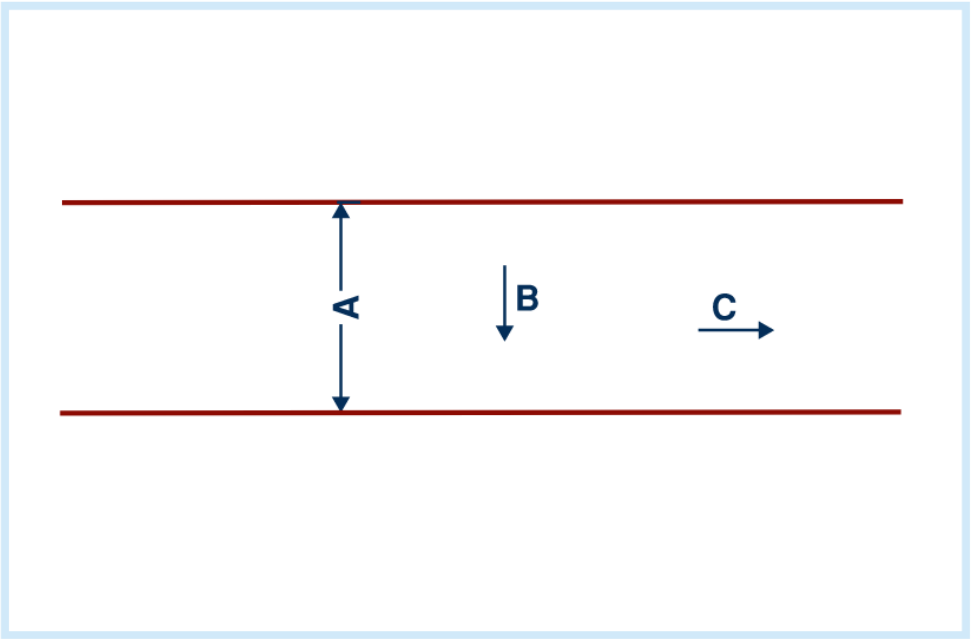
Sidewalk 5

Location: 24’ south of El Mirage Road and Tether Trail

Comments: None.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	62	In
B	Cross Slope	0.2	%
C	Running Slope	0.7	%
	Vertical Opening Greater than 1/4”?	Yes	
	Horizontal Opening Greater than 1/2”?	No	





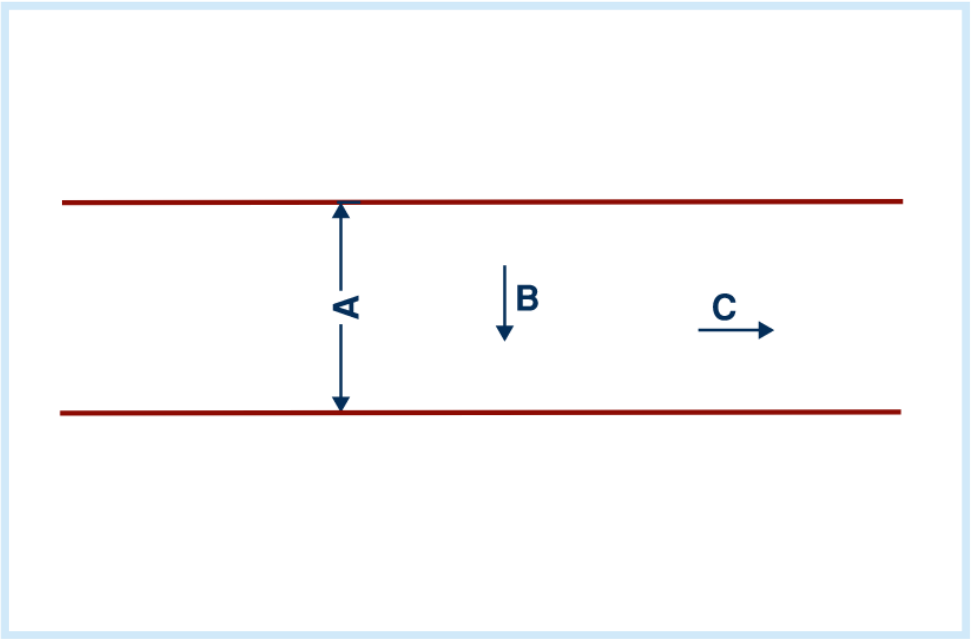
Sidewalk 6

Location: 100' south of El Mirage Road and Tether Trail

Comments: None.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	58.5	In
B	Cross Slope	0.5	%
C	Running Slope	1.0	%
	Vertical Opening Greater than 1/4"?	Yes	
	Horizontal Opening Greater than 1/2"?	No	





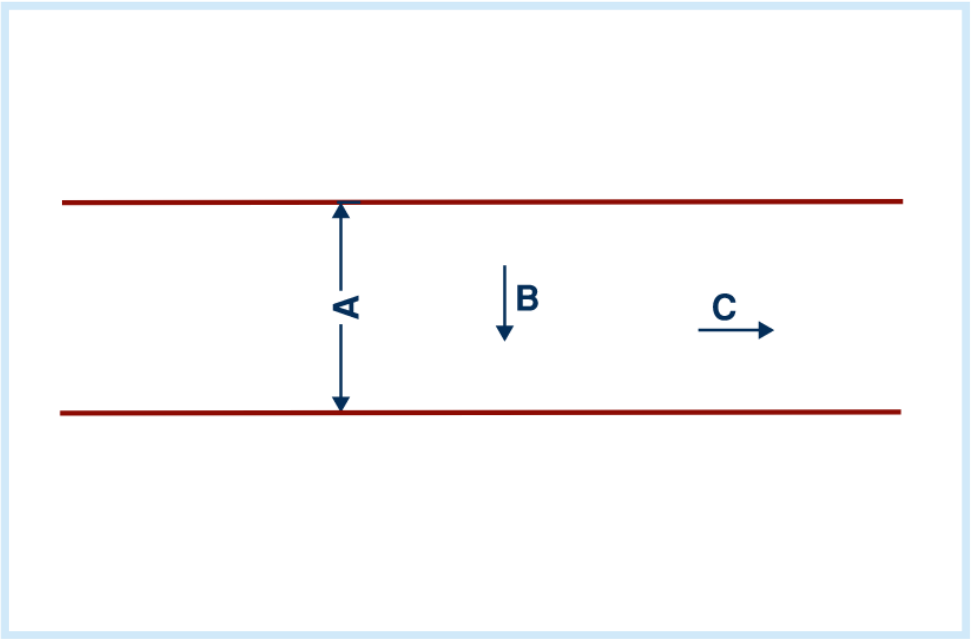
Sidewalk 7

Location: 160' south of El Mirage Road and Tether Trail

Comments: Minor cracking present on panels.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	60	In
B	Cross Slope	1.4	%
C	Running Slope	0.6	%
	Vertical Opening Greater than 1/4"?	No	
	Horizontal Opening Greater than 1/2"?	Yes	





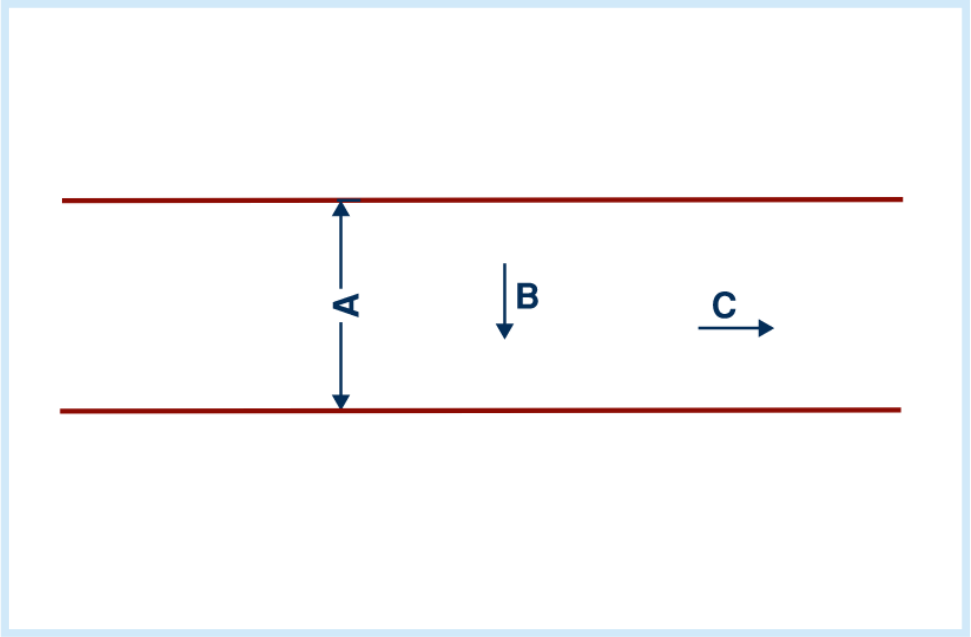
Sidewalk 8

Location: 219' south of El Mirage Road and Tether Trail

Comments: Panel chip with horizontal opening greater than 1/2“.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	60	In
B	Cross Slope	0.8	%
C	Running Slope	0.1	%
	Vertical Opening Greater than 1/4”?	Yes	
	Horizontal Opening Greater than 1/2”?	No	





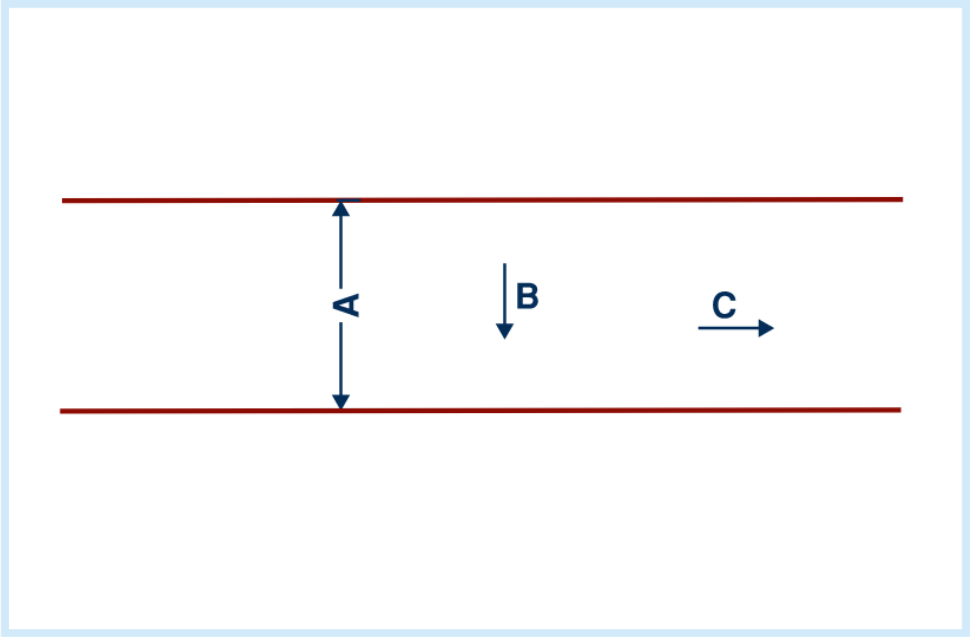
Sidewalk 9

Location: 405’ south of El Mirage Road and Tether Trail

Comments: Edge crack present.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	62	In
B	Cross Slope	0.0	%
C	Running Slope	1.1	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	Yes	





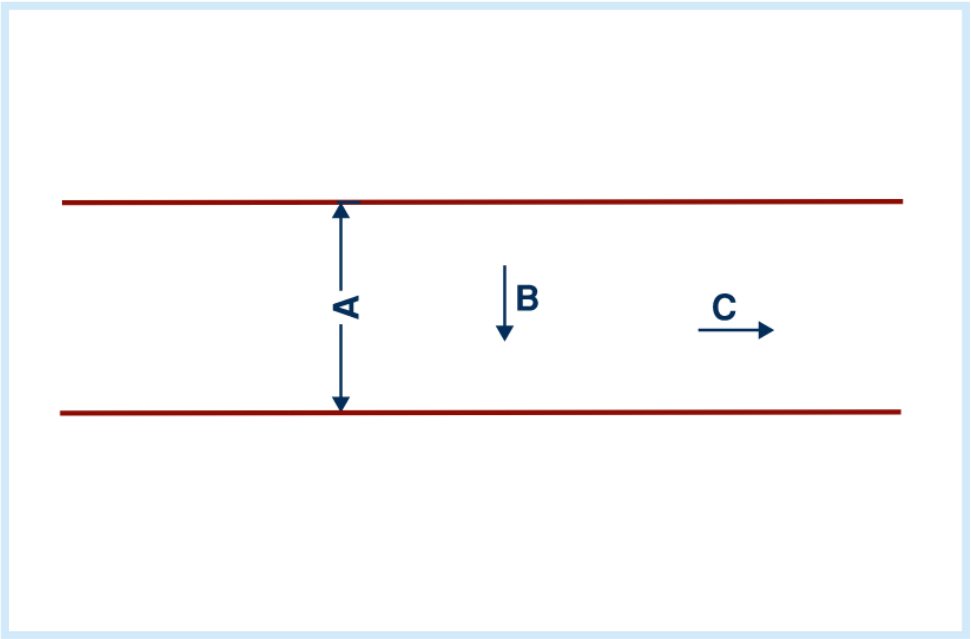
Sidewalk 10

Location: 547' south of El Mirage Road and Tether Trail

Comments: Edge damage observed.

ADA Compliance: Compliant

ID	Feature	Results	Units
A	Width	59	In
B	Cross Slope	1.4	%
C	Running Slope	0.0	%
	Vertical Opening Greater than 1/4"?	Yes	
	Horizontal Opening Greater than 1/2"?	No	





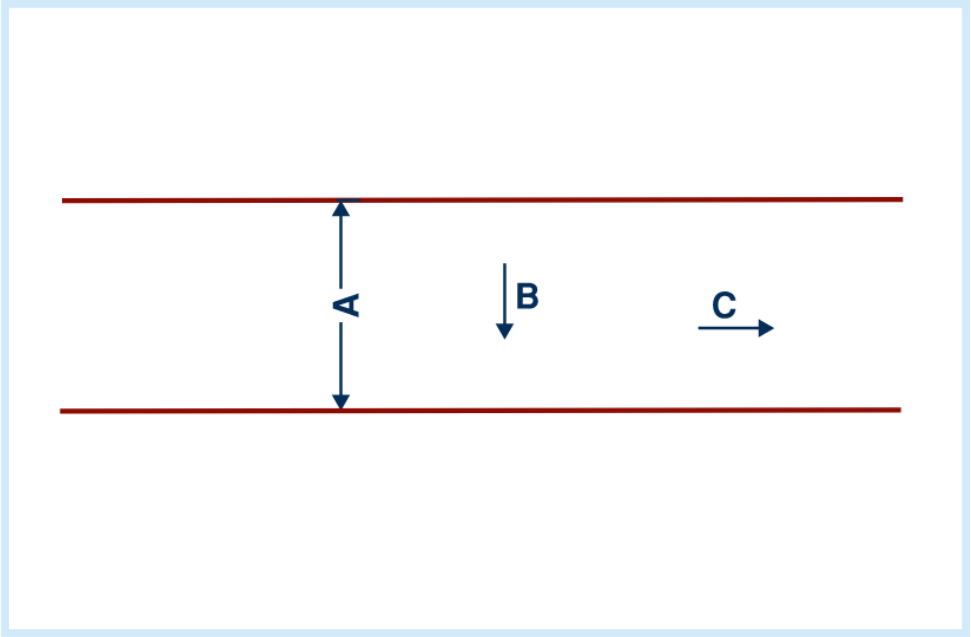
Sidewalk 11

Location: 562' south of El Mirage Road and Tether Trail

Comments: Edge damage observed.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	59	In
B	Cross Slope	0.2	%
C	Running Slope	1.2	%
	Vertical Opening Greater than 1/4"?	Yes	
	Horizontal Opening Greater than 1/2"?	Yes	





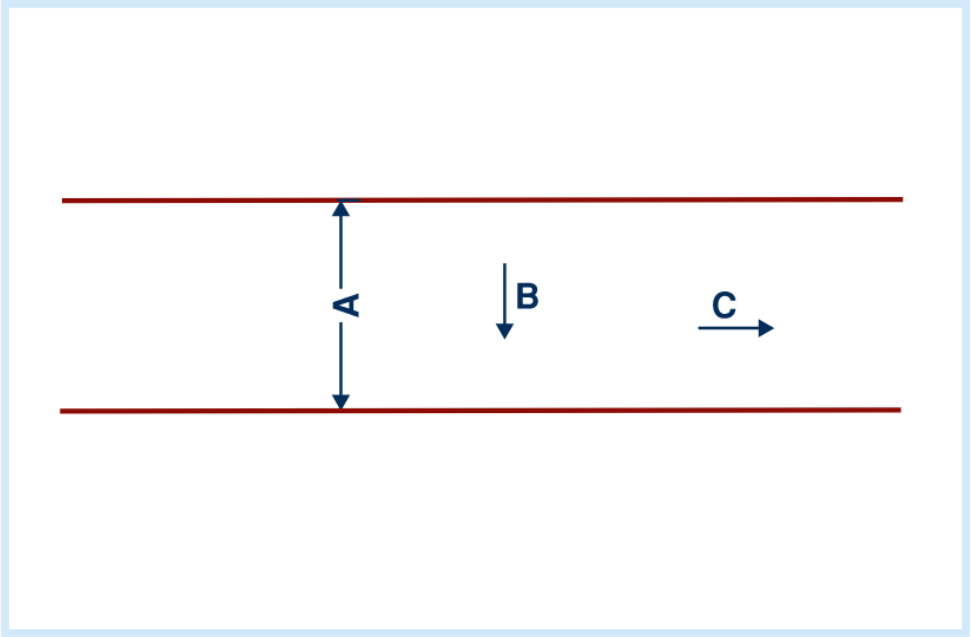
Sidewalk 12

Location: 577' south of El Mirage Road and Tether Trail

Comments: Change in vertical approximately 2".

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	59	In
B	Cross Slope	2.1	%
C	Running Slope	0.4	%
	Vertical Opening Greater than 1/4"?	Yes	
	Horizontal Opening Greater than 1/2"?	No	





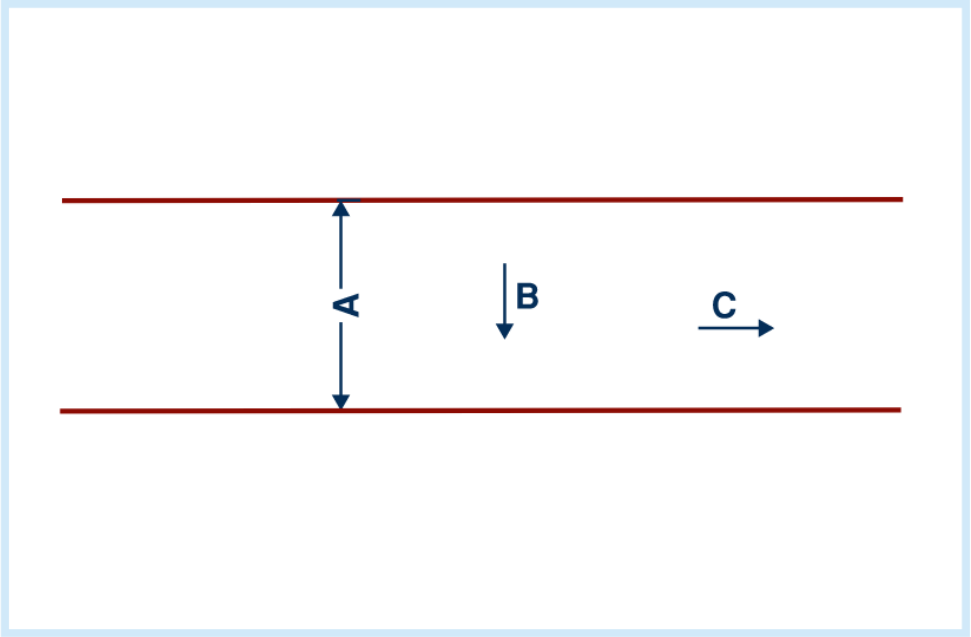
Sidewalk 13

Location: 597’ south of El Mirage Road and Tether Trail

Comments: Damage at joint causing 4.5” horizontal opening.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	59.5	In
B	Cross Slope	1.2	%
C	Running Slope	0.5	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	Yes	





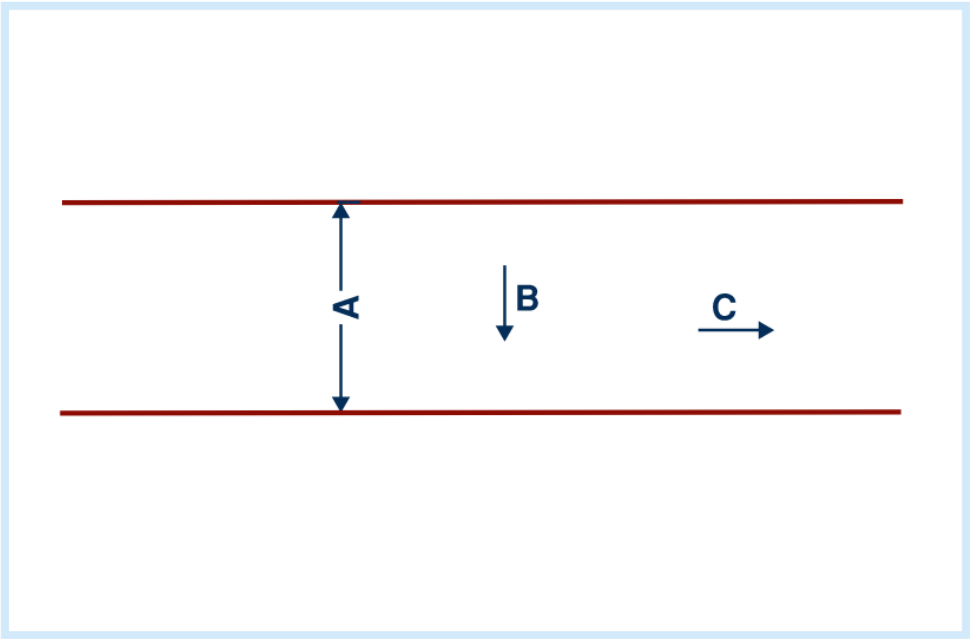
Sidewalk 14

Location: 690’ south of El Mirage Road and Tether Trail

Comments: Spot location with 2” horizontal opening.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	60	In
B	Cross Slope	1.3	%
C	Running Slope	0.6	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	Yes	





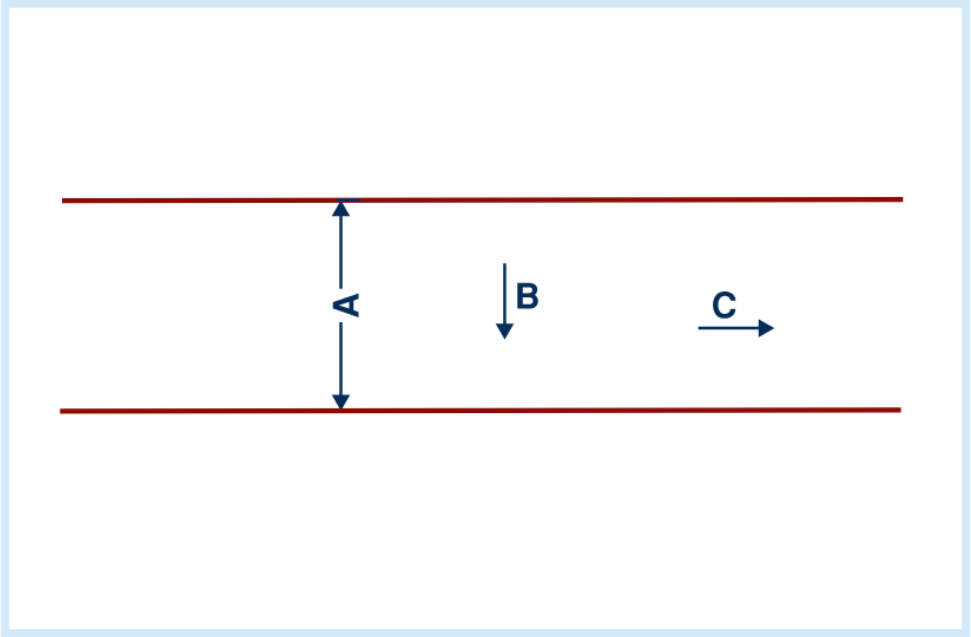
Sidewalk 15

Location: Southeast corner of El Mirage Road and Coldwater Ranch Drive.

Comments: None.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	60	In
B	Cross Slope	0.8	%
C	Running Slope	0.4	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	Yes	





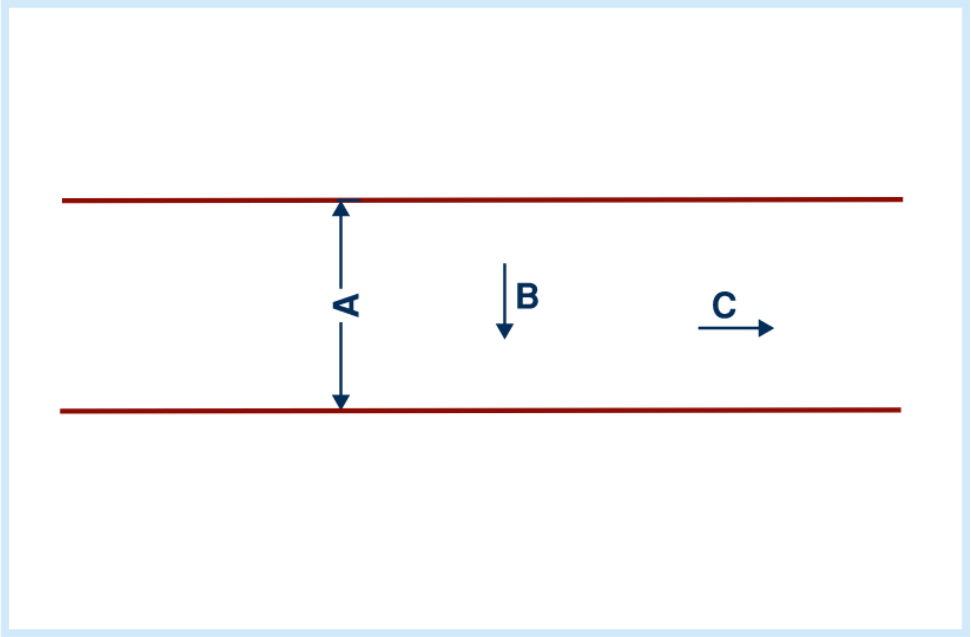
Sidewalk 16

4Location: 65’ south of El Mirage Road and Coldwater Ranch Drive.

Comments: Drainage structure present.

ADA Compliance: Compliant

ID	Feature	Results	Units
A	Width	60	In
B	Cross Slope	1.4	%
C	Running Slope	0.6	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	No	





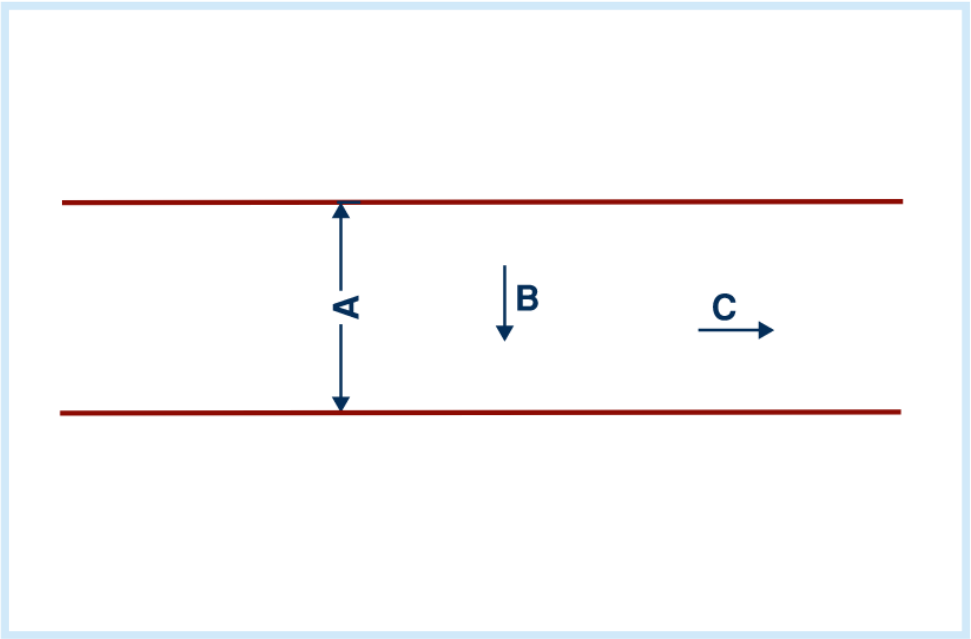
Sidewalk 17

Location: 160'-170' south of El Mirage Road and Coldwater Ranch Drive.

Comments: Panels raised about 1.5" above curb.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	59.5	In
B	Cross Slope	0.4	%
C	Running Slope	0.6	%
	Vertical Opening greater than 1/4"?	Yes	
	Horizontal Opening Greater than 1/2"?	No	





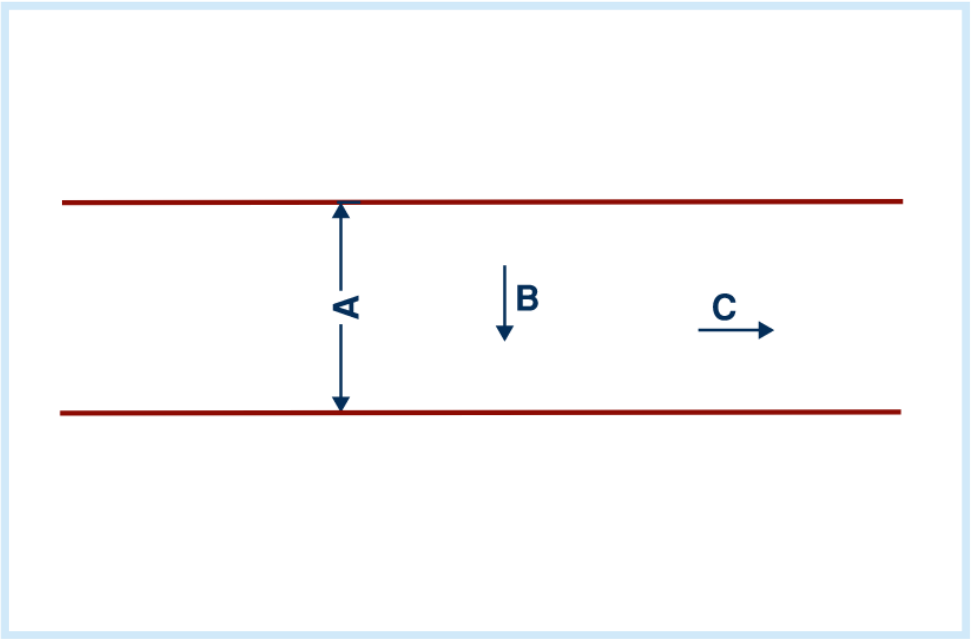
Sidewalk 18

Location: 275’ south of El Mirage Road and Coldwater Ranch Drive.

Comments: Change in sidewalk width from 77” to 59”.

ADA Compliance: Compliant

ID	Feature	Results	Units
A	Width	59-70	In
B	Cross Slope	0.8	%
C	Running Slope	0.4	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	No	





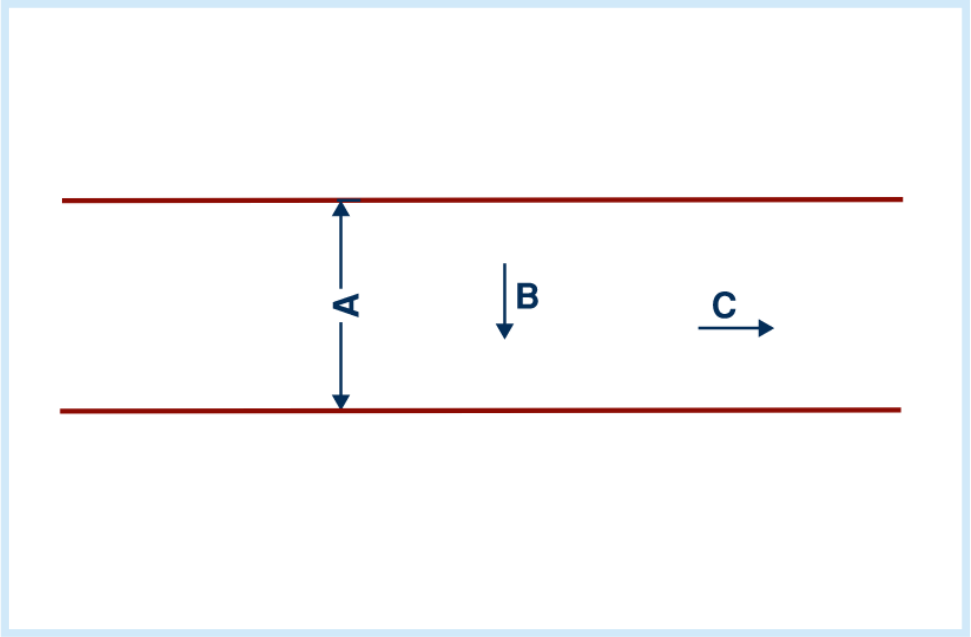
Sidewalk 19

Location: 477' south of El Mirage Road and Coldwater Ranch Drive.

Comments: Three panels in a row with edge chipping. Horizontal opening greater than 1/2".

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	69.5	In
B	Cross Slope	0.7	%
C	Running Slope	0.2	%
	Vertical Opening Greater than 1/4"?	No	
	Horizontal Opening Greater than 1/2"?	Yes	





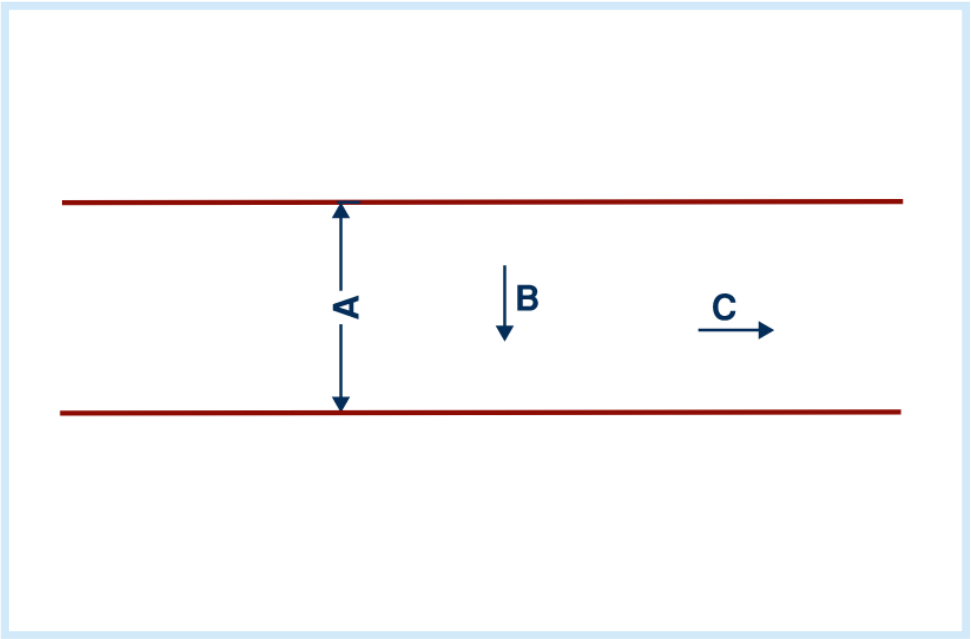
Sidewalk 20

Location: 597’ south of El Mirage Road and Coldwater Ranch Drive.

Comments: Significant change in longitudinal slope between panels. Minor edge damage along three panels running south. Bushes trimmed back could be obstruction if not.

ADA Compliance: Compliant

ID	Feature	Results	Units
A	Width	60	In
B	Cross Slope	1.0-2.1	%
C	Running Slope	0.0-2.1	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	Yes	





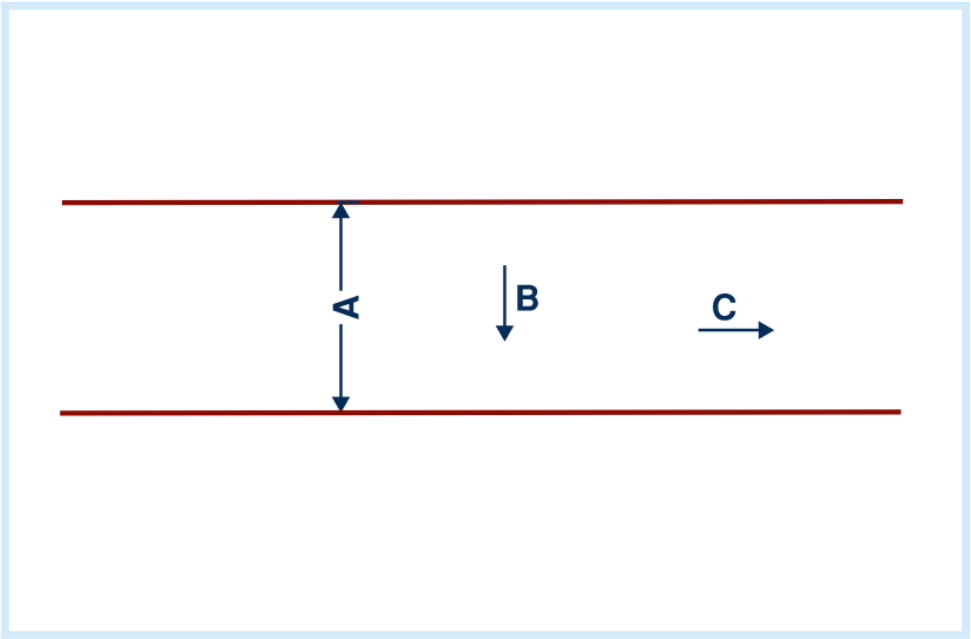
Sidewalk 21

Location: 624’ south of El Mirage Road and Coldwater Ranch Drive.

Comments: Approximately 1” vertical change between panels.

ADA Compliance: Non-Compliant

ID	Feature	Results	Units
A	Width	60	In
B	Cross Slope	1.0	%
C	Running Slope	0.1	%
	Vertical Opening greater than 1/4”?	Yes	
	Horizontal Opening Greater than 1/2”?	Yes	





Sidewalk 22

Location: 850’ south of El Mirage Road and Coldwater Ranch Drive.

Comments: None.

ADA Compliance: Compliant

ID	Feature	Results	Units
A	Width	59.5	In
B	Cross Slope	0.2	%
C	Running Slope	2.5	%
	Vertical Opening Greater than 1/4”?	No	
	Horizontal Opening Greater than 1/2”?	No	

