ACEC Meeting
ADA Updates

Presented by
Anthony Ng

ADA Project Delivery Office
CLASS ACTION LAWSUITS
Settlement Cases

Caltrans – $1.1 Billion
City of LA – $1.4 Billion

New York City - $1.55 Billion
Old Curb Ramp Design

CONSTRUCTION DETAILS
NO SCALE
C-11
Sample Pictures
Sample Pictures
Sample Pictures
**BLUE = MANDATORY**

**RED = RECOMMENDED (OPTIONAL)**

**GREEN = MANDATORY (EXISTING CURB RAMP)**

**BROWN = MANDATORY (SHOWN ON SECTION VIEW)**

---

**NEW CURB RAMP WITHIN EXISTING CURB, GUTTER AND SIDEWALK**

---

**CONSTRUCTION DETAILS**

---

**CENTERLINE OF CURB RAMP**

---

**NEW CURB RAMP WITHIN EXISTING CURB RAMP**

---

**BLUE = MANDATORY**

**RED = RECOMMENDED (OPTIONAL)**

**GREEN = MANDATORY (EXISTING CURB RAMP)**

**BROWN = MANDATORY (SHOWN ON SECTION VIEW)**

---

**CONSTRUCTION DETAILS**

---

**NEW CURB RAMP WITHIN EXISTING CURB, GUTTER AND SIDEWALK**

---

**CONSTRUCTION DETAILS**
Audit Assessment
Accessibility Audits for Construction Contract
Accepted Projects
FY 2017-2018

Monitoring Report for Compliance with the Settlement Agreement
Case Number C-06-5125 in the United States District Court for the Northern District of California

Date Submitted
May 2019

Submitted To
Disability Rights Advocates,
California Council of the Blind,
Caltrans

Submitted By
Parsons Corporation
Audit Reports

<table>
<thead>
<tr>
<th>Reporting Year</th>
<th>Total Curb Ramps</th>
<th>Compliant</th>
<th>Percent Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-2013</td>
<td>275</td>
<td>108</td>
<td>39.27%</td>
</tr>
<tr>
<td>2013-2014</td>
<td>235</td>
<td>121</td>
<td>51.49%</td>
</tr>
<tr>
<td>2014-2015</td>
<td>307</td>
<td>133</td>
<td>43.32%</td>
</tr>
<tr>
<td>2015-2016</td>
<td>483</td>
<td>131</td>
<td>27.12%</td>
</tr>
<tr>
<td>2016-2017</td>
<td>372</td>
<td>155</td>
<td>41.67%</td>
</tr>
<tr>
<td>2017-2018</td>
<td>256</td>
<td>136</td>
<td>53.13%</td>
</tr>
</tbody>
</table>

Average = 42.67%
<table>
<thead>
<tr>
<th>Occurrences</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Noncompliant Feature</td>
<td>45.06%</td>
</tr>
<tr>
<td>2 Noncompliant Feature</td>
<td>27.02%</td>
</tr>
<tr>
<td>3 Noncompliant Feature</td>
<td>13.81%</td>
</tr>
<tr>
<td>4 Noncompliant Feature</td>
<td>7.25%</td>
</tr>
<tr>
<td>5 or More Noncompliant Feature</td>
<td>6.49%</td>
</tr>
</tbody>
</table>
Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length
Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length
Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length
### ADA Curb Ramp

<table>
<thead>
<tr>
<th>Location Number</th>
<th>Route Name</th>
<th>Cross Street</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Gutter Slope

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td></td>
</tr>
<tr>
<td>F2</td>
<td></td>
</tr>
</tbody>
</table>

#### Measured Slope

<table>
<thead>
<tr>
<th>Ramp Slope (x.x%)</th>
<th>Ramp Cross Slope (x.x%)</th>
<th>Ramp Width (inches)</th>
<th>Surface Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>B1</td>
<td>C1</td>
<td>D1</td>
</tr>
<tr>
<td>A2</td>
<td>B2</td>
<td>C2</td>
<td>D2</td>
</tr>
<tr>
<td>A3</td>
<td>B3</td>
<td>C3</td>
<td>D3</td>
</tr>
</tbody>
</table>

7.7% or less? Yes □ No □

1.7% or less? Yes □ No □

49.75" or greater?

Yes □ No □

### Remarks

Inspection by (print name) __________________________

Signature __________________________

### ADA Notice

For individuals with sensory disabilities, this
management unit at (916) 445-1233, TTY 711.

18
yield or stop control, 5.0% maximum.
Stop or Yield Sign

State Highway

5% Max

2% Max

2% Max

5% Max
8) The cross slope of curb ramps, blended transitions, and turning spaces (landings) shall be 2.0% maximum. At pedestrian street crossings without yield or stop control and at midblock pedestrian street crossings, the cross slope shall be permitted to equal the street or highway grade.
(8) The cross slope of curb ramps, blended transitions, and turning spaces (landings) shall be 2.0% maximum. At pedestrian street crossings without yield or stop control and at midblock pedestrian street crossings, the cross slope shall be permitted to equal the street or highway grade.
Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length
### Detectable Warning Surface Width (inches)

<table>
<thead>
<tr>
<th>Location Number</th>
<th>Route Name</th>
<th>Cross Street</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ADA CURB RAMP (CA):**

- **M1**
- **M2**

**Extends full width and less than 1" gap on either side?**

- [ ] Yes
- [ ] No

**Measure and verify:***

<table>
<thead>
<tr>
<th>Top Landing Cross Slope (%)</th>
<th>Top Landing Slope (%)</th>
<th>Top Landing Width (inches)</th>
<th>Top Landing Depth (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I1</td>
<td>J1</td>
<td>K1</td>
<td>L1</td>
</tr>
<tr>
<td>I2</td>
<td>J2</td>
<td>K2</td>
<td>L2</td>
</tr>
<tr>
<td>I3</td>
<td>J3</td>
<td>K3</td>
<td>L3</td>
</tr>
</tbody>
</table>

- [ ] Yes
- [ ] No

**Remarks**

**Inspection by (print name):**

**Signature:**

---

**ADA Notice:** For individuals with sensory disabilities, this document is available in alternate formats. For alternate braille information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-69, Sacramento, CA 95814.
CEM Forms
Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length
Detectable Warning Surface
Detectable Warning Surface
Detectable Warning Surface
DIB 82-06
Section 4.3.14
Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length
Gutter Pan Transition

R = 1/2"

W1 = 6"

W2 = 6"

H1 = 6"

R = 1/2"

Type A2 Curbs

8.33%
Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1 V:20 H (5.0%).
Gutter Slope
Gutter Slope
Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length
<table>
<thead>
<tr>
<th>Location Number</th>
<th>Route Name</th>
<th>Intersection Quadrant</th>
<th>Passageway Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**

□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ N/A

□ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ N/A

Gutter is 24" or more wide.

**Inspection by (print name):**

**Signature:**

**Date:**

---

**ADA Notice:** For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-59, Sacramento, CA 95814.
Gutter not shown

1.5% Max

SIDEWALK

6" Min
RETAIN

1.5% Max

4'-2" Min

CASE A

9.0% Max
AT CURB

7.5% Max

5% Max
CURB

TYPICAL GUTTER PAN
APPLIES TO ALL CASES

See note 1
See Note 1 and 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS
NO SCALE

A88A
Bottom Landing

- **6" Min HIGH RETAINING CURB**
- **6" Typ**
- **5'-0" Min**
- **1.5% Max**
- **7.5% Max**
- **CURB TO MATCH RAMP SLOPE**
- **SEE NOTE 10**

**CASE C**
Design Checklist
### Curb Ramp Information

<table>
<thead>
<tr>
<th>Location Number</th>
<th>County</th>
<th>City</th>
<th>Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route Name</td>
<td>Cross Street</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latitude (y)</td>
<td>Postmile/station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Longitude (x)</td>
<td>Street Grade (%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ramp Case</th>
<th>Intersection Quadrant</th>
<th>Applicable Standard Plans</th>
<th>Applicable Standard Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case A</td>
<td>Northwest</td>
<td>2015 Standard Plan A88A</td>
<td>2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ramp Type</th>
<th>Construction Type</th>
<th>New</th>
<th>Retrofit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Ramp</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Are Pre/Post Construction Survey required?**

- Yes [ ]
- No [ ]

**If yes, has a Pre/Post Construction Survey item been added to the Q Sheets?**

- Yes [ ]
- No [ ]

**Are there any Design Exceptions required?**

- Yes [ ]
- No [ ]

#### DIB 82:

- Feature Number(s): ____________________________
- Approval Date(s): ____________________________

#### HDM Index 105:

- HDM Index 105.2: Sidewalks and Walkway
  - Approval Date: ____________________________

- HDM Index 105.5(2): Location and Design of Curb Ramps
  - Approval Date: ____________________________

**Are the Design Exceptions listed above included in the RE Pending file?**

- Yes [ ]
- No [ ]
## Ramp Slope (x.x\%) 

**A1**

8.33% or less?

- [ ] Yes  
- [ ] No

If marked “no,” is the ramp length over 15’?

- [ ] Yes  
- [ ] No
Ramp Cross Slope (x.x%)

B1

2.0% or less?
☐ Yes  ☐ No

If marked “no,” is the crossing uncontrolled or signalized and is 5% or less?
☐ Yes  ☐ No

If marked “no,” does the scope of the project fall under DIB 82-06, Section 4.1.2?
☐ Yes  ☐ No
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Is the detectable warning surface yellow in color?</td>
</tr>
<tr>
<td>2</td>
<td>If marked “no” for item 1, has an NSSP been approved? If yes, provide NSSP approval date: ____________________</td>
</tr>
</tbody>
</table>

- **Item 5**: Is the detectable warning surface placed at the lower landing at the back of curb where the distance from either end of the bottom grade break to the back of curb is more than 5.0 ft?  
  - Yes  
  - No  
  - N/A
- **Item 6**: Are any utility boxes, manholes, or vaults within the boundary of curb ramp called-out for “Adjust to Grade”?  
  - Yes  
  - No  
  - N/A
- **Item 7**: For obstructions such as signposts, lighting standards, power/telephone poles, guywires, or mailboxes in the construction area, complete items 8-11. If no obstructions are located within the construction area skip to item 12.  
  - Item 8-11: N/A
- **Item 8**: Are objects with leading edges between 27” to 80” height, protected by guardrails or other barriers less than 27” above the finished surface?  
  - Yes  
  - No  
  - N/A
- **Item 9**: For objects with leading edges between 27” to 80” height, is horizontal protrusion less than 4” (4.5” for handrails) without reducing the 48” minimum clear width requirement?  
  - Yes  
  - No  
  - N/A
- **Item 10**: For objects mounted on single posts that overhang the sidewalk or curb ramp, are the overhangs less than 12” when located between heights of 27” to 80”?  
  - Yes  
  - No  
  - N/A
- **Item 11**: For objects mounted between posts, where the clear distance between posts is greater than 12”, is the lowest edge of such object less than 27” or greater than 80” above the finished surface?  
  - Yes  
  - No  
  - N/A
- **Item 12**: For a curb ramp at a signalized intersection, complete items 13-16. If not at signalized intersection, skip to item 17.  
  - Item 13-16: N/A
- **Item 13**: Is the pedestrian push button wheelchair accessible from unobstructed forward reach?  
  - Yes  
  - No  
  - N/A
- **Item 14**: Is the pedestrian push button wheelchair accessible from unobstructed side reach?  
  - Yes  
  - No  
  - N/A

---

**Engineer (print name) Signature Date**
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Requirement</th>
<th>Compliant</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>For unobstructed side reach, is the pedestrian push button within 10 inches of the edge of sidewalk?</td>
<td>[ ] Yes [ ] No [ ] N/A</td>
</tr>
<tr>
<td>16</td>
<td>Is the sidewalk slope and cross slope less than 2.0% within the 30” x 48” area adjacent to the pedestrian push button?</td>
<td>[ ] Yes [ ] No [ ] N/A</td>
</tr>
<tr>
<td>17</td>
<td>For a curb ramp located at an intersection with a marked crosswalk answer items 18-21. If no crosswalk, skip to item 22.</td>
<td>Item 18-21 [ ] N/A</td>
</tr>
<tr>
<td>18</td>
<td>Does the crosswalk line up with the curb ramp?</td>
<td>[ ] Yes [ ] No [ ] N/A</td>
</tr>
<tr>
<td>19</td>
<td>For one-ramp corner (diagonal) installation, is the crosswalk a minimum of 4'-2&quot; back from bottom of curb ramp, as shown on Standard Plan A88A Detail B7?</td>
<td>[ ] Yes [ ] No [ ] N/A</td>
</tr>
<tr>
<td>20</td>
<td>For one ramp corner (diagonal) installation with flared sides, is there at least a 24-inch long segment of curb ramp within the crosswalk, as shown on Standard Plan A88A Detail B7?</td>
<td>[ ] Yes [ ] No [ ] N/A</td>
</tr>
<tr>
<td>21</td>
<td>Is there a minimum area of 48” x 48” within the crosswalk in front of the curb ramp?</td>
<td>[ ] Yes [ ] No [ ] N/A</td>
</tr>
<tr>
<td>22</td>
<td>Is the roadway surface within the pedestrian street crossing area in good condition?</td>
<td>[ ] Yes [ ] No [ ] N/A</td>
</tr>
</tbody>
</table>

25 **Is the curb ramp directional?** If yes, answer items 26-27. Mark N/A if not directional.

26 **Is the slope of the triangular area below the bottom grade break 2% or less?**

27 **Is there a grade break that is perpendicular to the crosswalk travel at the bottom of the ramp?**
The Federal recommendation found in Part II of *Designing Sidewalks and Trails for Access* is for curb ramps to be aligned perpendicular to curb face. However, directional curb ramps may be designed by showing a bottom grade break perpendicular to crosswalk travel.

<table>
<thead>
<tr>
<th>Height of Curb Face</th>
<th>Curb Ramp Run (Horizontal Length)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 inches</td>
<td>63 inches</td>
</tr>
<tr>
<td>5 inches</td>
<td>78 inches</td>
</tr>
<tr>
<td>6 inches</td>
<td>95 inches</td>
</tr>
<tr>
<td>7 inches</td>
<td>111 inches</td>
</tr>
<tr>
<td>7-1/2 inches</td>
<td>118-1/2 inches</td>
</tr>
<tr>
<td>8 inches</td>
<td>126 inches</td>
</tr>
</tbody>
</table>

Figure 4.3.8 (1) illustrates the intent of Section 4.3.8 (1).
Questions?