

May 10, 2006

Ms. Veronica Dolleschel
Community Services Director
City of South Pasadena
1414 Mission Street
South Pasadena, CA

Subject: ADA Assessment of City Library and Senior Center

Dear Ms. Dolleschel,

Thank you for selecting Transtech Engineers, Inc. as your ADA assessment consultant. The project has been completed and, as expected, a variety of noncomplying disabled access conditions were observed. As noted in the assessment, certain other nonconforming exiting and guardrail conditions were also observed. For each observed deficiency I have included an estimate of the effort required to correct the deficiency and the potential cost. Because the exact method of correction and the correction timing are currently unknown, these estimates of effort and cost should not be treated as anything more than a guide to help the City determine approximate funding and to set priorities.

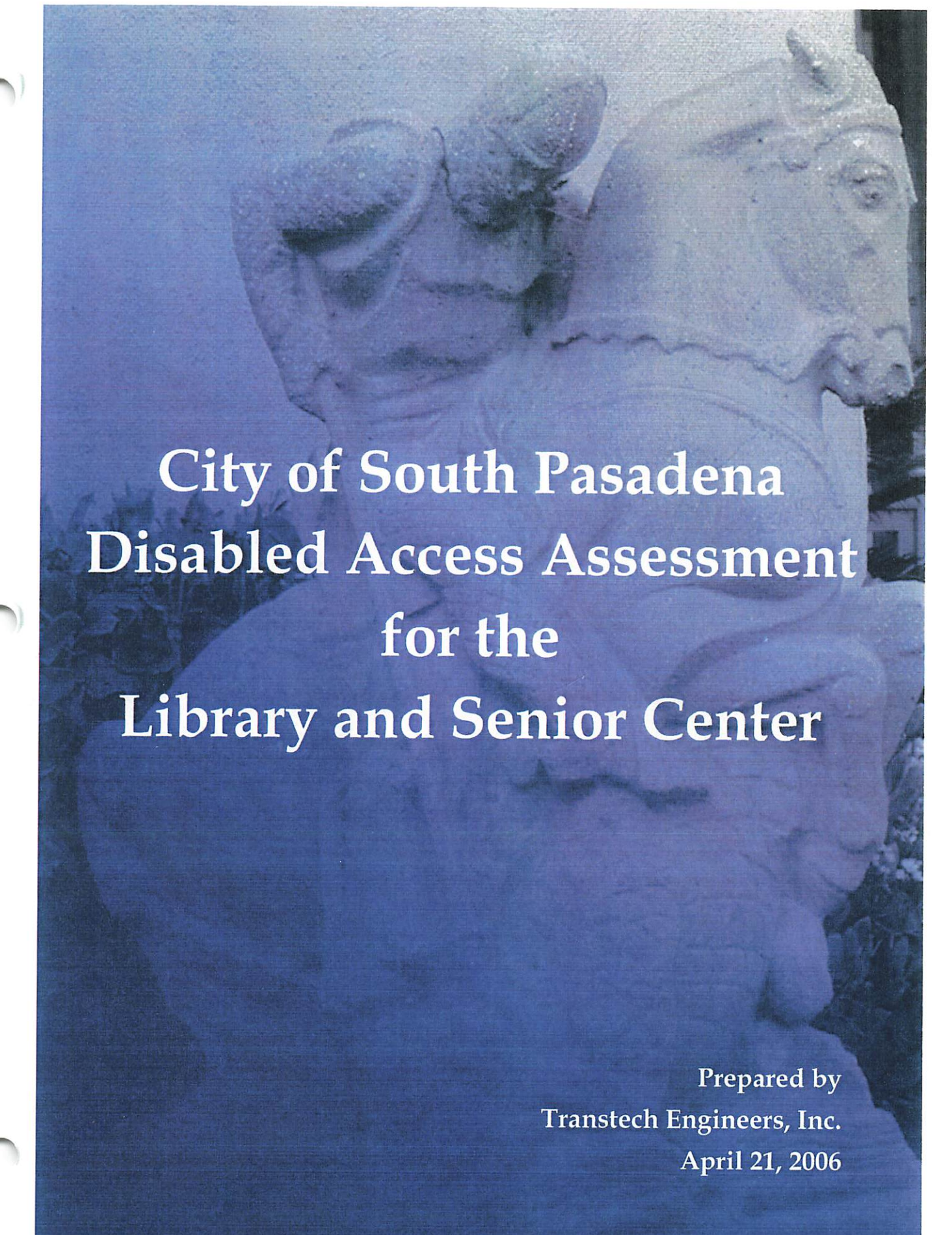
As part of this ADA assessment, no attempt was made to evaluate the programs and services offered by either the Library or the Senior Center or to evaluate the way in which rooms or areas are actually used. The City staff responsible for these programs, services and/or activities should evaluate these items independently from this assessment.

In addition to the itemized observed deficiencies, I have included specific supporting code requirements in various appendices located at the back of this assessment. These requirements are current as of the date of this letter. No corrective action should be taken in the future without confirming that these requirements remain current and unaltered.

Sincerely

Transtech Engineer, Inc.

Craig R. Melicher
Vice President



**City of South Pasadena
Disabled Access Assessment
for the
Library and Senior Center**

Prepared by
Transtech Engineers, Inc.
April 21, 2006

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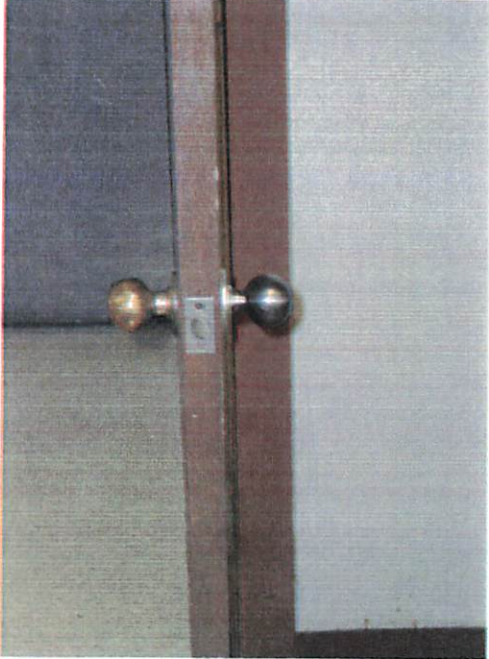
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**Senior Center
Observed Noncomplying Interior Conditions**

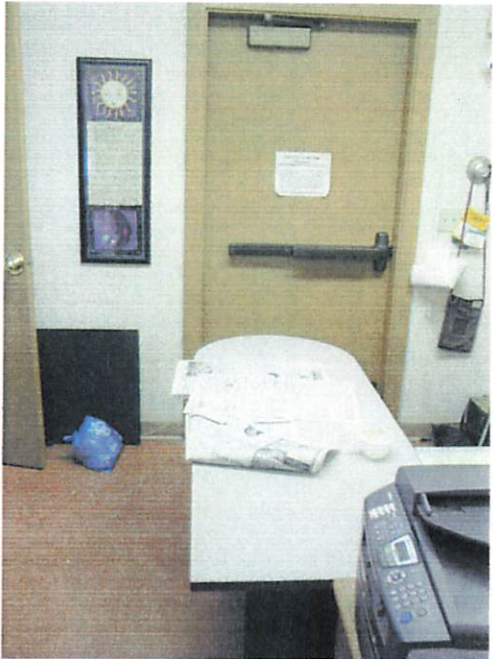

Image	Description	Associated Code Section¹
<p>1.</p> 	<p>Location: Between administrative area and west side patio area – southern sliding door.</p> <p>Noncomplying Condition: Door threshold.</p> <p>Effort to Correct: Significant</p> <p>Cost to Correct: \$\$\$\$</p> <p>Suggested Corrective Action: Relevel the unmortared brick patio at just below interior floor level and replace the siding glass door with a complying sliding glass door or fill opening with a window and complying swinging door.</p>	<p><u>CBC</u> 2-1133B.1.1.1 2-1133B.2.4.1</p> <p><u>ADAAG</u> 4.13.8</p>

¹ CBC indicates California Building Code. ADAAG means American's with Disabilities Act Accessibility Guidelines.


- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
- B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

	<p>Location: Between administrative area and west side patio area – northern sliding door.</p> <p>Noncomplying Condition: Door threshold.</p> <p>Effort to Correct: Significant</p> <p>Cost to Correct: \$\$\$\$</p> <p>Suggested Corrective Action: Relevel the unmortared brick patio at just below interior floor level and replace the sliding glass door with a complying sliding glass door or fill opening with a window and complying swinging door.</p>	<p><u>CBC</u> 2-1133B.1.1.1 2-1133B.2.4.1</p> <p><u>ADAAG</u> 4.13.8</p>
<p>3.</p> 	<p>Location: Various locations throughout the building.</p> <p>Noncomplying Condition: Door knob.</p> <p>Effort to Correct: Negligible</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Replace noncomplying door knobs with complying lever door hardware.</p>	<p><u>CBC</u> 2-1133B.2.5.2</p> <p><u>ADAAG</u> 4.13.9</p>

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<p>4.</p>		<p>Location: Administrative Area at northeast exterior door.</p> <p>Noncomplying Condition: Inadequate width in path of travel to exterior door.</p> <p>Effort to Correct: Minimal</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Reconfigure desk/work area.</p>	<p>CBC 2-1105B.3.2 2-1105B.3.6(1)</p> <p>ADAAG 4.2.1</p>
<p>5.</p>		<p>Location: Clerical area at north patio – two locations, one on each side of the exterior patio.</p> <p>Noncomplying Condition: Door threshold.</p> <p>Effort to Correct: Significant</p> <p>Cost to Correct: \$\$\$</p> <p>Suggested Corrective Action: Replace door with complying door, and construct complying exterior landing as required.</p>	<p>CBC 2-1133B.1.1.1 2-1133B.2.4.1</p> <p>ADAAG 4.13.8</p>

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<p>6.</p> 	<p>Location: Adjacent to the public restrooms.</p> <p>Noncomplying Condition: No high/low drinking fountain. Bubbler orifice is not at a correct height. Not located within an alcove or protected by wing rails.</p> <p>Effort to Correct: Significant.</p> <p>Cost to Correct: \$\$</p> <p>Suggested Corrective Action: Install complying “high/low” drinking fountain combination and protect with tactile floor surface and wing rails.</p>	<p><u>CBC</u> 1115B.2.1.5.1 1117B.1.1 1117B.1.2</p> <p><u>ADAAG</u> 4.15.2 4.15.4</p>
<p>7.</p> <p style="text-align: center;">No Photograph</p>	<p>Door closers should not require more than 5 pounds to operate except that fire-rated door assemblies may require not more than 15 pounds of force to operate. All doors not in compliance should be adjusted or have the closer replaced.</p>	<p><u>CBC</u> 2-1133B.2.5 2-1133B.2.5.1 2-1133B.2.5.2</p> <p><u>ADAAG</u> 4.13.10 4.13.11</p>
<p>8.</p> <p style="text-align: center;">No Photograph</p>	<p>Inadequate existing exterior and interior signage. Signage (including tactile information) which identifies, directs or gives information about accessible elements and features should be installed as appropriate to the element or feature.</p>	<p><u>CBC</u> 2-1117B.5. 2-1127B.3 (See Appendix B)</p> <p><u>ADAAG</u> Section 4.30</p>

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<p>9.</p> <p style="text-align: center;">No Photograph</p>	<p>Electrical receptacles should be no lower than 15 inches to the floor where the electrical receptacle is provided for the use of the occupant.</p> <p>Fire alarm pull stations should be mounted no more than 48 inches above the floor unless adequate side approach clear space is provided. Where side approach space is provided, the pull stations may be mounted as high as 54 inches above the floor.</p>	<p style="text-align: center;"><u>CBC</u> 2-1117B.6</p>
<p>10.</p> <p style="text-align: center;">No Photograph</p>	<p>Door thresholds which have a vertical difference in elevation from the threshold to the surface on either side of the door do not comply with current disabled access requirements. On a case by case basis, each door threshold should be verified for compliance and adjusted as appropriate.</p>	<p style="text-align: center;"><u>CBC</u> 2-1133B.2.4.1</p> <p style="text-align: center;"><u>ADAAG</u> 4.13.8</p>



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Senior Center Observed Noncomplying Restroom Conditions



Image	Description	Associated Code Section ¹
<p>11. </p>	<p>Location: Men's restroom.</p> <p>Noncomplying Condition: Men's urinal is 24" above floor (the maximum permitted is 17") and the urinal projects 13" from the wall (14" is the minimum permitted projection).</p> <p>Effort to Correct: Significant.</p> <p>Cost to Correct: \$\$\$</p> <p>Suggested Corrective Action: Replace and lower one urinal.</p>	<p><u>CBC</u> 2-1115B.2.1.1.1</p> <p><u>ADAAG</u> 4.18.2</p>

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<p>12.</p> 	<p>Location: Men's restroom.</p> <p>Noncomplying Condition: Toilet seat height is too low. The toilet is located too close to the wall and too far from the partition divider. Grab bar is missing from the back wall (behind the toilet) for fully complying condition. Flush control is required to be on the wide side for ADA.</p> <p>Effort to Correct: Significant.</p> <p>Cost to Correct: \$\$ to \$\$\$</p> <p>Suggested Corrective Action: Option No. 1: <i>[Permitted Equivalent Facilitation]</i> Replace the toilet and relocate the partition wall so that the face of the partition is 18" from the centerline of the toilet. Option No. 2: <i>[Full Compliance]</i> Replace and relocate the toilet to a complying location. Relocate the partitions as required. Install complying grab bars.</p>	<p>CBC 2-1115B.2.1 2-1115B.7.1(3) 2-1115B.2.1(2)</p> <p>ADAAG 4.16.3 4.16.5 4.17.3</p>
<p>13.</p> 	<p>Location: Men's Restroom</p> <p>Noncomplying Condition: Faucet valves. Hot water and drain piping is not wrapped.</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$\$</p> <p>Suggested Corrective Action: At a minimum, replace the faucet valves on the sink closest to the door. Wrap the hot water and drainage piping.</p>	<p>CBC 2-1115B.2.1.2.1 2-1115B.2.1.2.2</p> <p>ADAAG 4.19.4 4.19.5</p>

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<p>14.</p>		<p>Location: Men's restroom.</p> <p>Noncomplying Condition: Hand dryer, ashtray, and paper towel dispenser are all mounted too high above the floor.</p> <p>Effort to Correct: Negligible</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Lower the hand dryer, remove the ashtray, and lower or install a complying paper towel dispenser.</p>	<p><u>CBC</u> 2-1115B.9.2</p> <p><u>ADAAG</u> 4.27.3</p>
<p>15.</p>		<p>Location: Women's Restroom</p> <p>Noncomplying Condition: Paper towel dispenser is mounted too high. Hot water and drain piping is not wrapped.</p> <p>Effort to Correct: Negligible</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Lower the paper towel dispenser to the correct height above the floor or install a second dispenser at no more than 40" above the floor. Wrap the hot water and drain piping.</p>	<p><u>CBC</u> 2-1115B.9.2 2-1115B.2.1.2.2</p> <p><u>ADAAG</u> 4.19.4 4.27.3</p>

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16.



Noncomplying Condition:

Toilet seat height is too low. The toilet is located too close to the wall and too far from the partition divider. Control for the flush valve is located on the wrong side of the toilet. Grab bar is missing from the back wall (behind the toilet) for fully complying condition.

Effort to Correct: Significant.

Cost to Correct: \$\$ to \$\$\$

Suggested Corrective Action:

Option No. 1: *[Permitted Equivalent Facilitation]* Replace the toilet and relocate the partition wall so that the face of the partition is 18" from the centerline of the toilet.

Option No. 2: *[Full Compliance]* Replace and relocate the toilet to a complying location. Relocate the partitions as required. Install complying grab bars.


CBC

2-1115B.2.1
2-1115B.7.1(3)
2-1115B.2.1(2)

ADAAG
4.17.3

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Senior Center Observed Noncomplying Exterior Conditions

Image	Description	Associated Code Section ¹
<p>17.</p> 	<p>Location: Doors and entrances serving the patio area located on the west side of the senior center. The following photographs indicate a variety of noncomplying floor surface, door threshold, and door latch conditions.</p> <p>Noncomplying Condition: Uneven surface, unpermitted vertical discontinuity, and/or excessive cross-slope. Round door knobs.</p> <p>Effort to Correct: Significant to major.</p> <p>Cost to Correct: \$\$\$ to \$\$\$\$.</p> <p>Suggested Corrective Action: Patio area abuts several exterior doors or other entrances with noncomplying exterior door landing conditions. The patio and these door conditions can be simultaneously corrected by releveling the patio at a higher elevation. Brick pavers are not mortared in place and could be reused in a sand-bedded installation which would help minimize the cost.</p>	<p style="text-align: center;"><u>CBC</u> 2-1124B.1 thru 2-1124B.4 2-1133B.2.4.1 2-1133B.2.5.2</p> <p style="text-align: center;"><u>ADAAG</u> 4.3.7 4.3.8 4.5.1 4.5.2 4.13.8 4.13.9</p>

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<p>18.</p>		<p>See Item Number 17 for related information.</p>	
<p>19.</p>		<p>See Item Number 17 for related information.</p>	

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20.



See Item Number 17 for related information.

21.



See Item Number 17 for related information.

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22.



Location: East side of Senior Center adjacent to administrative offices – two (2) exterior doors serve this location..

Noncomplying Condition: Condition fails to comply with disabled access requirements and the California Building Code for safe exiting.

Effort to Correct: Minor to Significant.

Cost to Correct: \$\$ to \$\$\$

Suggested Corrective Action: Enclose the space within the administrative portion of the Senior Center or provide a complying ramp to the City sidewalk.



CBC
2-1124B.1 thru
2-1124B.4

2-1003.2.6
(Exiting)

ADAAG
4.3.7
4.3.8
4.5.1
4.5.2

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<p>23.</p> 	<p>Location: East side of Senior Center (Exit from main room).</p> <p>Noncomplying Condition: Door landing and handrails.</p> <p>Effort to Correct: Depends on action; Minor to Significant.</p> <p>Cost to Correct: \$\$ to \$\$\$</p> <p>Suggested Corrective Action: Option No. 1: <i>[Permitted Equivalent Facilitation]</i> Replace the existing handrail with a handrail that provides the proper handgrip cross-section and extensions at the top and bottom of the stair. Add required visual stripping, and signage indicating that the door does not provide a disabled access-complying means of egress. Option No. 2: <i>[Full Compliance]</i> Remove existing landing and stairway and construct new landing and ramp to City sidewalk grade elevation.</p>	<p><u>CBC</u> 2-1133B.1.1.1.1 2-1133B.2.4.1 2-1133B.4.1.1 2-1133B.4.2.1 2-1133B.4.2.2 2-1133B.4.2.6.1 2-1133B.4.2.6.2 2-1133B.4.4</p> <p><u>ADAAG</u> 4.9 4.13.8</p> <p><u>CBC</u> <u>Tactile Exit Signage</u> <u>Requirements¹</u> 2-1003.2.8.6 2-1003.2.8.6.1</p>
<p>24.</p> 	<p>See Item Number 23 for related information.</p>	

¹ Although not located within Chapter 11B, the Tactile Exit Signage requirements promulgated by the California Division of the State Architect and the California State Fire Marshall and located within chapter 10 appear to be disabled access related and should be considered as an appropriate disabled access requirement.

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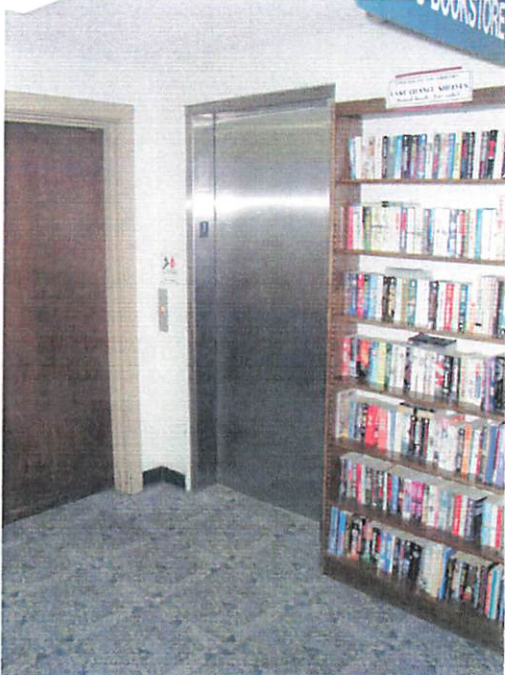
Library Observed Noncomplying Interior Conditions

Image	Description	Associated Code Section ¹
<p>1. </p>	<p>Location: Interior stair to second floor.</p> <p>Noncomplying Condition: Handrails and stair level signage. No visual striping.</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$\$</p> <p>Suggested Corrective Action: Replace handrails with complying handrails mounted at the correct height.</p>	<p style="text-align: center;"><u>CBC</u> 2-1133B.4.2.1 2-1133B.4.2.2 2-1133B.4.2.6.1 2-1133B.4.3 2-1133B.4.4 2-1117B.5</p> <p style="text-align: center;"><u>ADAAG</u> 4.9.4</p> <p style="text-align: center;"><u>CBC</u> <u>Tactile Exit Signage</u> <u>Requirements</u>² 2-1003.2.8.6 2-1003.2.8.6.1</p>

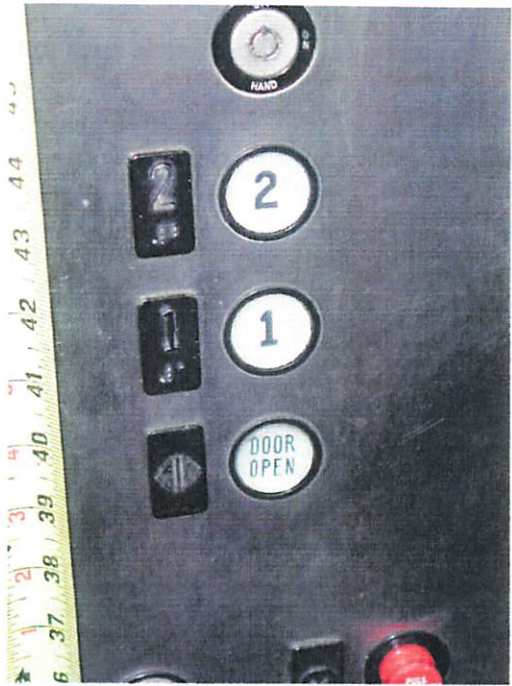

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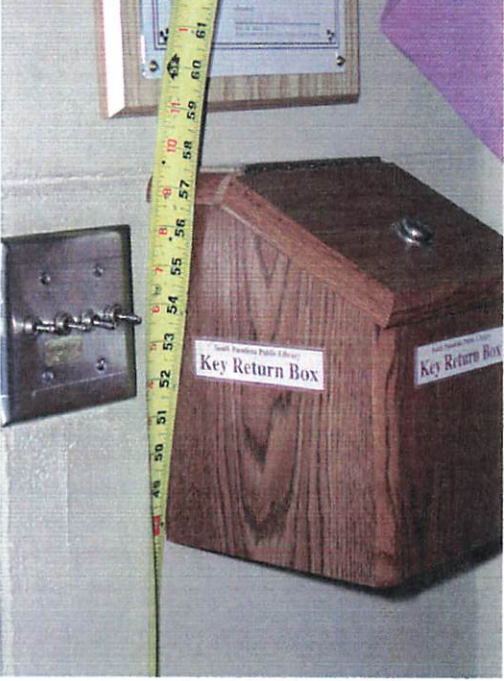
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<p>2.</p> 	<p>Location: Library Elevator.</p> <p>Noncomplying Condition: Lack of raised button. No braille information. No star at ground floor.</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$\$</p> <p>Suggested Corrective Action: Replace button with complying button.</p>	<p><u>CBC</u></p> <p><u>ADAAG</u> 4.10.3 4.10.12</p>
<p>3.</p> 	<p>Location: Library Elevator.</p> <p>Noncomplying Condition: No hall lantern. No raised braille characters on each side of entrance. Noncomplying audible signals and car position indicators.</p> <p>Effort to Correct: Minor to Significant.</p> <p>Cost to Correct: \$\$\$</p> <p>Suggested Corrective Action: Install appropriate information and/or systems.</p>	<p><u>CBC</u></p> <p><u>ADAAG</u> 4.10.4 4.10.5 4.10.13</p>

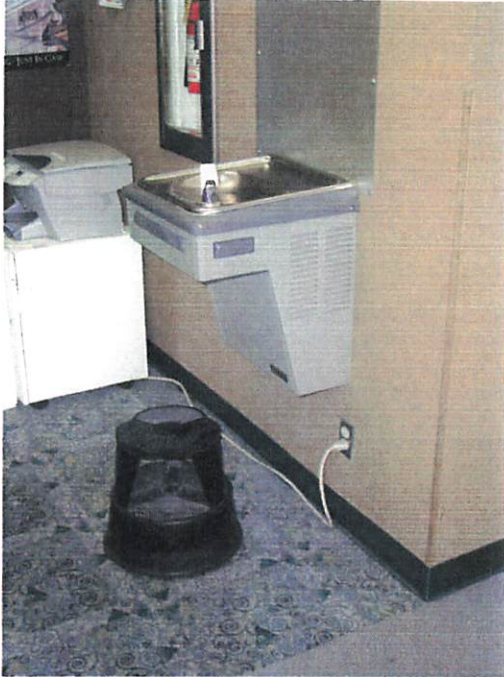

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<p>4.</p> 	<p>Location: Library Elevator.</p> <p>Noncomplying Condition: No star at first floor button.</p> <p>Effort to Correct: Negligible</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Install required braille symbol.</p>	<p><u>CBC</u></p> <p><u>ADAAG</u> 4.10.12</p>
<p>5.</p> 	<p>Location: Library Elevator.</p> <p>Noncomplying Condition: Emergency communication lacks braille information and requires voice communication.</p> <p>Effort to Correct: Unknown</p> <p>Cost to Correct: Unknown</p> <p>Suggested Corrective Action: Replace emergency telephone with complying system.</p>	<p><u>CBC</u></p> <p><u>ADAAG</u> 4.10.14</p>



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<p>6.</p>		<p>Location: City Librarian's Office and various other staff locations.</p> <p>Noncomplying Condition: Round door knob.</p> <p>Effort to Correct: Negligible</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Replace the door knob with complying lever hardware.</p>	<p><u>CBC</u> 2-1133B.2.5.2</p> <p><u>ADAAG</u> 4.13.9</p>
<p>7.</p>		<p>Location: Community Room</p> <p>Noncomplying Condition: Key return box mounted to high.</p> <p>Effort to Correct: Negligible</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Lower the box.</p>	<p><u>CBC</u> 2-1118B.6</p> <p><u>ADAAG</u> 4.27.3</p>



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<p>8.</p>		<p>Location: Adjacent to the first floor public restrooms.</p> <p>Noncomplying Condition: No high/low drinking fountain. Bubbler orifice is not located at a correct height. Not located within an alcove or protected by wing rails.</p> <p>Effort to Correct: Significant.</p> <p>Cost to Correct: \$\$</p> <p>Suggested Corrective Action: Install complying “high/low” drinking fountain combination and protect with tactile floor surface and wing rails.</p>	<p>CBC 1115B.2.1.5.1 1117B.1.1 1117B.1.2</p> <p>ADAAG 4.15.2 4.15.4</p>
<p>9.</p>		<p>Location: Second floor adjacent to the top of the interior stairs.</p> <p>Noncomplying Condition: No high/low drinking fountain. Bubbler orifice is not located at a correct height. Not located within an alcove or protected by wing rails.</p> <p>Effort to Correct: Significant.</p> <p>Cost to Correct: \$\$</p> <p>Suggested Corrective Action: Install complying “high/low” drinking fountain combination and protect with tactile floor surface and wing rails.</p>	<p>CBC 1115B.2.1.5.1 1117B.1.1 1117B.1.2</p> <p>ADAAG 4.15.2 4.15.4</p>


Notes: A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

<p>10.</p>		<p>Location: Upstairs Staff Kitchen/Break Area</p> <p>Noncomplying Condition: No specific code violations except possibly for reach, but existing facility makes no attempt to be "disabled user-friendly."</p> <p>Effort to Correct: None currently required, but issue should be addressed at a point where City staff is considering a remodel of this area.</p> <p>Cost to Correct: 0</p> <p>Suggested Corrective Action: None at this time.</p>	<p><u>CBC</u> For reference, see 2-1118B.5 and 2-1118B.6</p> <p><u>ADAAG</u> 4.2.5 4.2.6</p>
<p>11.</p>		<p>Location: Upstairs Staff Kitchen/Break Area</p> <p>Noncomplying Condition: Security hardware with four (4) buttons and a door knob that requires tight grasping.</p> <p>Effort to Correct: Negligible to Minor depending on replacement security hardware chosen.</p> <p>Cost to Correct: \$ to \$\$</p> <p>Suggested Corrective Action: Replace the security hardware with complying door hardware.</p>	<p><u>CBC</u> 1133B2.5.2</p>

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
- B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

<p>12.</p> 	<p>Location: Door threshold to first floor electric/telecomm room.</p> <p>Noncomplying Condition: Door threshold height. (Existing condition also violates California Building Code door threshold height requirements.)</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$ to \$\$</p> <p>Suggested Corrective Action: Remove and replace with a complying door threshold.</p>	<p><u>CBC</u> 2-1133B.2.4.1</p> <p>2-1003.3.1.6 (exiting)</p> <p><u>ADAAG</u> 4.13.8</p>
<p>13.</p> 	<p><i>San Marino</i></p> <p>Location: First floor level.</p> <p>Noncomplying Condition: Magazine and card catalogs exceed 54 inches maximum reach condition.</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$\$ to \$\$\$</p> <p>Suggested Corrective Action: Install complying displays and catalogs.</p>	<p><u>ADAAG</u> 8.4</p>
<p>14.</p> <p>No Photograph</p>	<p>Door closers should not require more than 5 pounds to operate except that fire-rated door assemblies may require not more than 15 pounds of force to operate. All doors not in compliance should be adjusted or have the closer replaced.</p>	<p><u>CBC</u> 2-1133B.2.5 2-1133B.2.5.1 2-1133B.2.5.2</p> <p><u>ADAAG</u> 4.13.10 4.13.11</p>

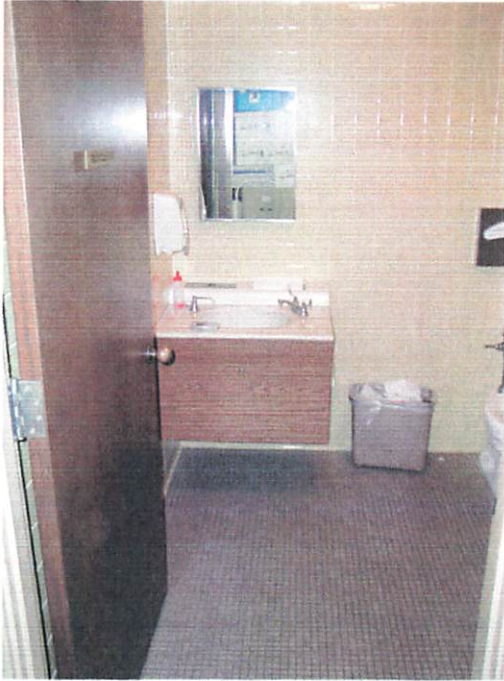
- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
- B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

15.		<p>Inadequate existing exterior and interior signage. Signage (including tactile information) which identifies directs or gives information about accessible elements and features should be installed as appropriate to the element or feature.</p>	<p><u>CBC</u> 2-1117B.5 2-1127B.3 (See Appendix B)</p> <p><u>ADAAG</u> Section 4.30</p>
16.	<p>No Photograph</p>	<p>Electrical receptacles should be no lower than 15 inches to the floor where the electrical receptacle is provided for the use of the occupant.</p> <p>Fire alarm pull stations should be mounted no more than 48 inches above the floor unless adequate side approach clear space is provided. Where side approach space is provided, the pull stations may be mounted as high as 54 inches above the floor.</p>	<p><u>CBC</u> 2-1117B.6</p> <p><u>ADAAG</u> 4.27 4.28</p>
17.	<p>No Photograph</p>	<p>Door thresholds which have a vertical difference in elevation from the threshold to the surface on either side of the door do not comply with current disabled access requirements. On a case by case basis, each door threshold should be verified for compliance and adjusted as appropriate.</p>	<p><u>CBC</u> 2-1133B.1.1.1 2-1133B.2.4.1</p> <p><u>ADAAG</u> 4.13.8</p>

Notes: A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.

B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

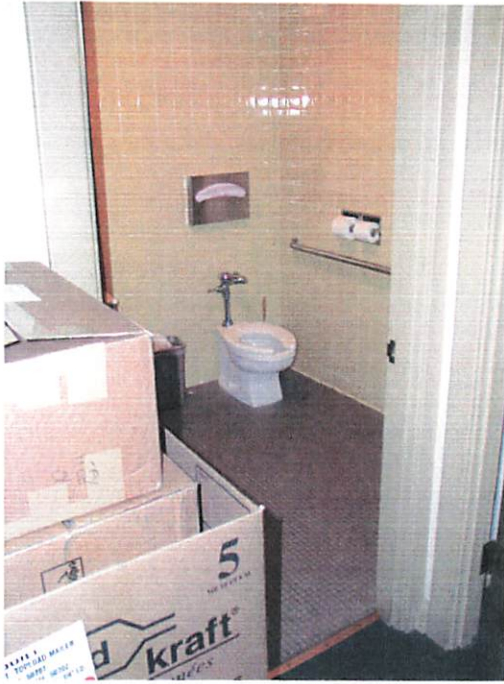
Library Observed Noncomplying Restroom Conditions

Image	Description	Associated Code Section ¹
<p>18.</p> 	<p>Location: Second floor staff restroom.</p> <p>Noncomplying Condition: Cabinet mounted lavatory. Soap dispenser is not located in an accessible location. Mirror above sink is inadequate. Paper towel dispenser may be located in an inaccessible location. Door knob is noncompliant.</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$\$</p> <p>Suggested Corrective Action: Replace the cabinet mounted lavatory with a complying lavatory. Relocate the soap dispenser and paper towel dispenser. Add a second, complying mirror. Replace door knob with complying lever door hardware. Wrap hot water and drain piping.</p>	<p style="text-align: center;"><u>CBC</u> 2-1115B.2.1.2.1 2-1115B.9.2 2-1115B.9.1(2) 2-1133B.2.5.2</p> <p style="text-align: center;"><u>ADAAG</u> 4.13.9 4.19.2</p>

¹ CBC indicates California Building Code. ADAAG means American's with Disabilities Act Accessibility Guidelines.

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
 B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

19.



Location: Second floor staff restroom.

Noncomplying Condition: Toilet seat is too low. Grab bar is missing from the back wall. Toilet tissue dispenser is too high above the floor. Paper toilet seat cover dispenser is mounted in an inaccessible location.

Effort to Correct: minor

Cost to Correct: \$\$

Suggested Corrective Action: Replace the toilet with a complying toilet. Install missing grab bar. Relocate toilet tissue and paper toilet seat cover dispensers.

CBC
2-1115B.2.1
2-1115B.8.1
2-1115B.8.2
2-1115B.9.2

ADAAG
4.16.2
4.16.3
4.16.4
4.16.6
4.17.3
4.17.6

20.



Location: First floor staff restroom.

Noncomplying Condition: Toilet is mounted too far away from the wall. Paper toilet seat cover dispenser is located in an inaccessible location. (See also Item No. 21 for related noncomplying conditions.)

Effort to Correct: Significant to major.

Cost to Correct: \$\$\$\$.


Suggested Corrective Action: Replace toilet with complying toilet mounted in the correct location. Relocate paper toilet seat cover dispenser to an accessible location.

CBC
2-1115B.7.2
2-1115B.9.2


ADAAG
4.17.3
4.27.3

Notes: A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.

B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

<p>21.</p> 	<p>Location: First floor staff restroom.</p> <p>Noncomplying Condition: Lavatory is mounted too close to the toilet. Hot water and drain lines not wrapped. (See also Item No. 20 for related noncomplying conditions.)</p> <p>Effort to Correct: Significant to major.</p> <p>Cost to Correct: \$\$\$\$</p> <p>Suggested Corrective Action: Relocate lavatory to a complying location. (This may require that the room be enlarged to provide complying clear space requirements.) Wrap the hot water and drain lines.</p>	<p><u>CBC</u> 2-1115B.7.2 2-1115B.2.1.2.2</p> <p><u>ADAAG</u> 4.16.2 4.19.4</p>
<p>22.</p> <p style="text-align: center;">No Photograph</p>	<p>Location: First floor staff restroom.</p> <p>Noncomplying Condition: Light switch is mounted too high, and the door has a round door knob.</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$ to \$\$</p> <p>Suggested Corrective Action: Relocate the light switch to an accessible location.</p>	<p><u>CBC</u> 2-1118B.5 2-1118B.62- 1133B.2.5.2</p> <p><u>ADAAG</u> 4.13.9 4.27.3</p>

Notes: A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
 B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

<p>23.</p> 	<p>Location: Access hallway to first floor staff bathroom.</p> <p>Noncomplying Condition: Required width for path of travel.</p> <p>Effort to Correct: Negligible</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Relocate storage materials to another location.</p>	<p><u>CBC</u> 2-1105B.3.6(1)</p> <p><u>ADAAG</u> 4.2.1</p>
<p>24.</p> 	<p>Location: Men's public restroom on the first floor.</p> <p>Noncomplying Condition: The lower urinal is too high above the floor and does not project far enough from the wall.</p> <p>Effort to Correct: Significant (See also potential location impact from item number 25.)</p> <p>Cost to Correct: \$\$\$ to \$\$\$\$</p> <p>Suggested Corrective Action: Replace the urinal with a complying urinal mounted at the correct height.</p>	<p><u>CBC</u> 2-1115B.2.1.1.1</p> <p><u>ADAAG</u> 4.18.2</p>

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
- B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

25.

Location: Men's public restroom on the first floor.

Noncomplying Condition: Toilet is too low. Toilet is located too far from the tile wall and too close to the partition wall. Paper toilet seat cover dispenser is located too high above the floor.



Effort to Correct: Significant to Major.

Cost to Correct: \$\$\$\$


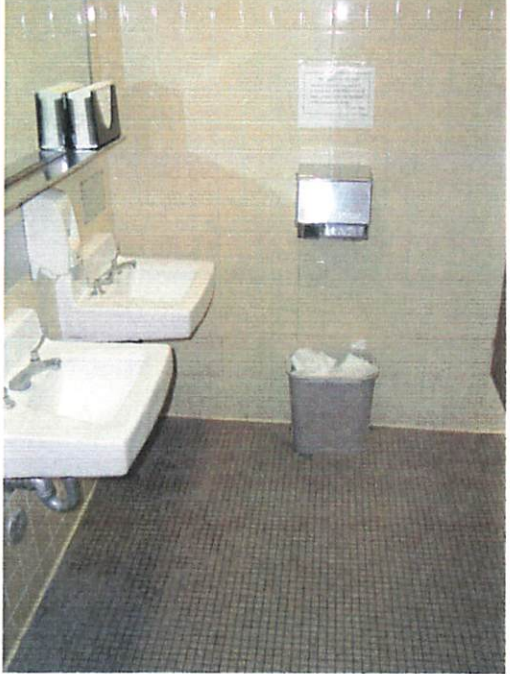
Suggested Corrective Action:
Option No. 1: Reconfigure stall by moving tile wall closer to the toilet and moving the partition wall further away from the toilet. (Moving the partition may make the adjacent stall unusable, which may then require that the adjacent urinal be eliminated or that both urinals be moved.)¹
Option No. 2: Relocate the toilet to a complying location and move the partition wall. (As before, moving the partition may make the adjacent stall unusable, which may then require that the adjacent urinal be eliminated or that both urinals be moved.)¹

CBC
2-1115B.2.1
2-1115B.7.1(3)
2-1115B.9.2

ADAAG
4.17.3

¹ Current California Building Code ("CBC") requirements may require that the number of toilets and/or urinals be maintained. The requirement is based on exit occupant load. No attempt was made during this review to calculate occupant loads in accordance with Chapter 10 of the CBC.

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

<p>26.</p>		<p>Location: Men's public restroom on the first floor.</p> <p>Noncomplying Condition: Lavatories are mounted too low. Hot water and drain piping is not wrapped. Metal mirrors are mounted in an inaccessible location.</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$</p> <p>Suggested Corrective Action: Raise at least one lavatory to the correct height.</p>	<p><u>CBC</u> 2-1115B.2.1.2.1 2-1115B.2.1.2.2 2-1115B.9.1(2)</p> <p><u>ADAAG</u> 4.19.2 4.19.4 4.19.6</p>
<p>27.</p>		<p>Location: Women's public restroom on the first floor.</p> <p>Noncomplying Condition: Lavatories are mounted too low. Hot water and drain piping is not wrapped. Mirror is mounted in an inaccessible location.</p> <p>Effort to Correct: Minor</p> <p>Cost to Correct: \$\$</p> <p>Suggested Corrective Action: Raise at least one lavatory to the correct height and install a second, complying mirror.</p>	<p><u>CBC</u> 2-1115B.2.1.2.1 2-1115B.2.1.2.2 2-1115B.9.1(2)</p> <p><u>ADAAG</u> 4.19.2 4.19.4 4.19.6</p>

Notes: A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
 B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

28.



Location: Women's public restroom on the first floor.

Noncomplying Condition: Toilet is too low. Toilet is located too far from the tile wall and too close to the partition wall. Paper toilet seat cover dispenser is located too high above the floor.

Effort to Correct: Significant to Major.

Cost to Correct: \$\$\$\$

Suggested Corrective Action:
Option No. 1: Reconfigure stall by moving tile wall closer to the toilet and moving the partition wall further away from the toilet. (Moving the partition may make the adjacent stall unusable, which may then require that the adjacent urinal be eliminated or that both urinals be moved.)¹
Option No. 2: Relocate the toilet to a complying location and move the partition wall. (As before, moving the partition may make the adjacent stall unusable, which may then require that the adjacent urinal be eliminated or that both urinals be moved.)¹

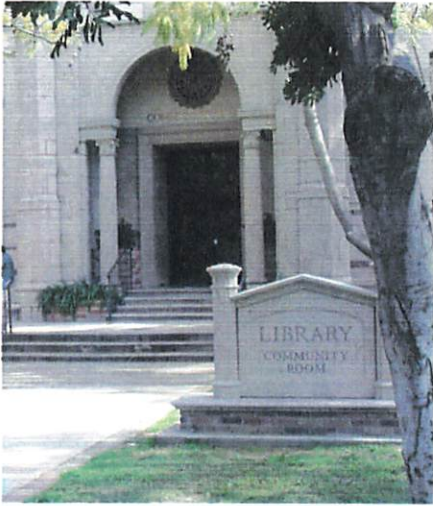
CBC
2-1115B.2.1
2-1115B.7.1(3)
2-1115B.9.2

ADAAG
4.17.3

¹ Current California Building Code ("CBC") requirements may require that the number of toilets and/or urinals be maintained. The requirement is based on exit occupant load. No attempt was made during this review to calculate occupant loads in accordance with Chapter 10 of the CBC.

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
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Library Observed Noncomplying Exterior Conditions

Image	Description	Associated Code Section ¹
<p>29.</p> 	<p>Location: Entrance to Community Room.</p> <p>Noncomplying Condition: No vertical access to this facility for the disabled during hours when the Library is not open. No complying handrails. No visual striping on the stair treads.</p> <p>Effort to Correct: Significant to Major.</p> <p>Cost to Correct: \$\$\$ to \$\$\$\$</p> <p>Suggested Corrective Action: <i>Option No. 1:</i> Utilize the Community Room only during times when the Library elevator is available. Add complying handrails and stair tread striping to the stair treads.</p> <p><i>Option No. 2:</i> Provide vertical access by ramp or lift. Install complying handrails and add visual striping to the stairs.</p>	<p style="text-align: center;"><u>CBC</u> 2-1103B.1 2-1114B.1.2 2-1133B.4.2.1 2-1133B.4.2.2 2-1133B.4.2.6.1 2-1133B.4.2.6.2 2-1133B.4.4</p> <p style="text-align: center;"><u>ADAAG</u> 4.1.2 4.9.4</p> <p style="text-align: center;"><u>CBC</u> <u>Tactile Exit Signage</u> <u>Requirements</u>² 2-1003.2.8.6 2-1003.2.8.6.1</p>

¹ CBC indicates California Building Code. ADAAG means American's with Disabilities Act Accessibility Guidelines.

² Although not located within Chapter 11B, the Tactile Exit Signage requirements promulgated by the California Division of the State Architect and the California State Fire Marshall and located within chapter 10 appear to be disabled access related and should be considered as an appropriate disabled access requirement.

Notes: A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
 B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

30.



Location: Stairway serving first floor on northwest side of the Library.

Noncomplying Condition: Handrail cross-section, handrail extensions are missing, no visual stair striping.

Effort to Correct: Minor to Significant.

Cost to Correct: \$\$ to \$\$\$

Suggested Corrective Action: Replace the handrails with complying handrails, and install visual striping on the stair treads.

CBC
 2-1133B.4.2.1
 2-1133B.4.2.2
 2-1133B.4.2.6.1
 2-1133B.4.2.6.2
 2-1133B.4.4

ADAAG
 4.9.4

CBC
Tactile Exit
Signage
Requirements¹
 2-1003.2.8.6
 2-1003.2.8.6.1

¹ Although not located within Chapter 11B, the Tactile Exit Signage requirements promulgated by the California Division of the State Architect and the California State Fire Marshall and located within chapter 10 appear to be disabled access related and should be considered as an appropriate disabled access requirement.

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
 B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

31.



Location: East side of the Library serving the second floor level.

Noncomplying Condition: Handrails and lack of visual striping on the stair treads. (See also Item Numbers 32 and 33 for related noncomplying information.)

Effort to Correct: Varies with elected method of correction. Generally speaking: Minor to significant, but could be major.

Cost to Correct: \$\$ to \$\$\$\$

Suggested Corrective Action:

Option No. 1: Remove and replace the stairs with either a ramp, a stair/ramp combination, or a stair/vertical lift combination.

Option No. 2: Convert exit doors serving the balcony area to alarmed panic hardware, and use for emergency exiting only. (This option prevents the Work Room from being used during hours when the Library is not open for business.) (See also Item Numbers 30 and 31 for related noncomplying information.) Install complying handrails and visual striping on the stair treads.

CBC
2-1133B.4.2.1
2-1133B.4.2.2
2-1133B.4.2.6.1
2-1133B.4.2.6.2
2-1133B.4.4

ADAAG
4.9.4

CBC
Tactile Exit
Signage
Requirements¹
2-1003.2.8.6
2-1003.2.8.6.1

¹ Although not located within Chapter 11B, the Tactile Exit Signage requirements promulgated by the California Division of the State Architect and the California State Fire Marshall and located within chapter 10 appear to be disabled access related and should be considered as an appropriate disabled access requirement.

Notes: A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.

B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

32.



Location: South end of second floor balcony areas on the east and west sides of the Library.

Noncomplying Condition: Lack of complying vertical access to balconies from either the second floor level of the Library or from exterior grade level. As with all other exterior stairs, the handrail is noncomplying and the stair treads lack visual striping. (See also Item Numbers 31 and 33 for related noncomplying information.)

Effort to Correct: Varies with method of correction: Significant to major.

Cost to Correct: \$\$\$\$

Suggested Corrective Action: Partial correction can be achieved by converting the second floor balconies to exit only pathways for the abled by installing alarmed panic hardware on the doors serving the balconies. (This action makes both the Conference and Work Room unavailable during hours when the Library is not open for business.) Install complying handrails and visual striping on the stair treads.

CBC
2-1103B.1
2-1114B.1.2
2-1133B.4.2.1
2-1133B.4.2.2
2-1133B.4.2.6.1
2-1133B.4.2.6.2
2-1133B.4.4

ADAAG
4.9.4

CBC
Tactile Exit
Signage
Requirements¹
2-1003.2.8.6
2-1003.2.8.6.1

¹ Although not located within Chapter 11B, the Tactile Exit Signage requirements promulgated by the California Division of the State Architect and the California State Fire Marshall and located within chapter 10 appear to be disabled access related and should be considered as an appropriate disabled access requirement.

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

33.

Location: West side of the Library serving the second floor level.

Noncomplying Condition: Handrails and lack of visual striping on the stair treads. (See also Item Numbers 31 and 32 for related noncomplying information.)

Effort to Correct: Varies with elected method of correction. Generally speaking: Minor to significant, but could be major.

Cost to Correct: \$\$ to \$\$\$\$

Suggested Corrective Action:

Option No. 1: Remove and replace the stairs with either a ramp, a stair/ramp combination, or a stair/vertical lift combination.

Option No. 2: Convert exit doors serving the balcony area to alarmed panic hardware, and use for emergency exiting only. (This option prevents the Conference room from being used during hours when the Library is not open for business.) (See also Item Numbers 18 and 19 for related noncomplying information.) Install complying handrails and visual striping on the stair treads.



CBC
2-1133B.4.2.1
2-1133B.4.2.2
2-1133B.4.2.6.1
2-1133B.4.2.6.2
2-1133B.4.4

ADAAG
4.9.4

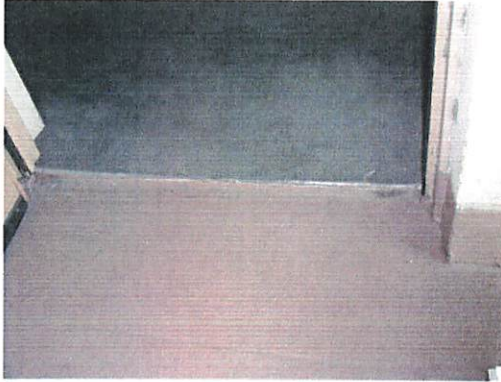
CBC
Tactile Exit
Signage
Requirements¹
2-1003.2.8.6
2-1003.2.8.6.1

¹ Although not located within Chapter 11B, the Tactile Exit Signage requirements promulgated by the California Division of the State Architect and the California State Fire Marshall and located within chapter 10 appear to be disabled access related and should be considered as an appropriate disabled access requirement.

Notes: A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.

B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

34.



Location: Photo is taken at the exit door from the Community Room to the exterior balcony on the west side of the Library. Similar noncomplying door threshold conditions occur at various exterior doors throughout the Library.

Noncomplying Condition: Vertical difference in height between the top of threshold and the lowest floor surface exceeds allowable requirements.

Effort to Correct: Minor

Cost to Correct: \$ to \$\$ depending on actual door condition.

Suggested Corrective Action: Convert door thresholds to complying door thresholds.

CBC
2-1133B.2.4.1

ADAAG
4.13.8

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

35.



Location: Guardrails at balconies on the east and west side of the Library.

Noncomplying Condition: Not a noncomplying disabled access condition, but does violate the basic guardrail conditions because a small child could easily fit through the opening and fall off of the balcony. Additionally, existing guardrails are lower than current Code requirements. Although not retroactive, the City may want to consider correcting both the guardrail opening and height conditions.

Effort to Correct: Negligible to Minor


Cost to Correct: \$ to \$\$

Suggested Corrective Action: Install a similar wrought iron element in the center of the opening which reduces the opening area to a dimension that is not greater than that provided by the vertical pickets of the existing guardrail.

CBC
2-509.1 thru 2-509.3

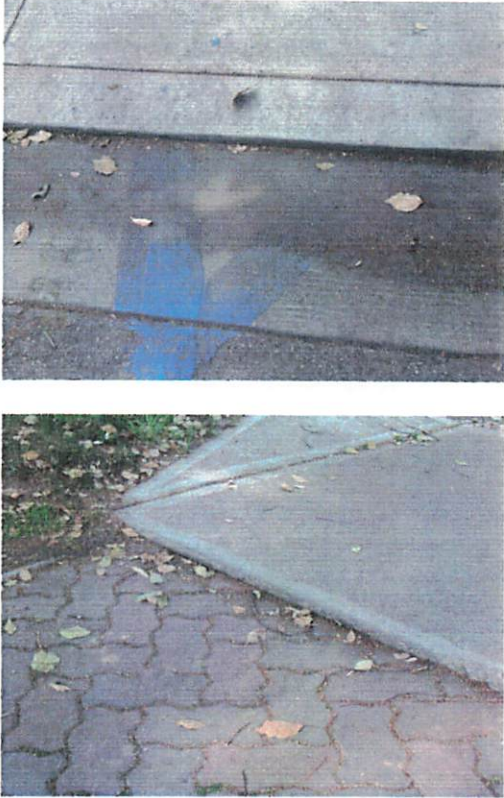

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

Exterior Areas Common to Both the Senior Center and the Library Observed Noncomplying Exterior Conditions

	Image	Description	Associated Code Section ¹
36.		<p>Location: North side of both the Library and the Senior Center, between the two buildings.</p> <p>Noncomplying Condition: Location of storm water catch basin directly in the exiting path of travel serving exterior doors for both the Library and the Senior Center.</p> <p>Effort to Correct: Significant to major.</p> <p>Cost to Correct: \$\$\$ to \$\$\$\$</p> <p>Suggested Corrective Action: At a minimum, raise the top of catch basin and surrounding pavement to create an exit path with no more than 2% cross slope in any direction.</p>	<p><u>CBC</u> 2-1124B.1 2-1124B.2 2-1124B.4</p> <p><u>ADAAG</u> 4.3.7 4.3.8 4.5.1 4.5.2 4.13.8</p>

¹ CBC indicates California Building Code. ADAAG means American's with Disabilities Act Accessibility Guidelines.

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
- B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

<p>37.</p> 	<p>Location: Walkways surrounding both the Library and the Senior Center.</p> <p>Noncomplying Condition: Hard surfaces have shifted over time to create vertical differences in the surfaces which exceed allowable requirements for paths serving the disabled.</p> <p>Effort to Correct: Depending on actual conditions and method of correction: Minor to Significant.</p> <p>Cost to Correct: \$\$ to \$\$\$</p> <p>Suggested Corrective Action: Eliminate the noncomplying condition by grinding and/or releveling the surfaces as appropriate.</p>	<p><u>CBC</u> 2-1124B.1 2-1124B.2</p> <p><u>ADAAG</u> 4.5.1 4.5.2</p>
<p>38.</p> 	<p>Location: On El Centro, west of Fairview.</p> <p>Noncomplying Condition: No loading zone and no curb ramp.</p> <p>Effort to Correct: Significant.</p> <p>Cost to Correct: \$\$\$ to \$\$\$\$</p> <p>Suggested Corrective Action: Remove and relocate to an appropriate location.</p>	<p><u>CBC</u> 2-1114B.1.2 2-1129B.4.2 2-1127B.5 No. 8 2-1129B.4.4 (See Appendix C)</p> <p><u>ADAAG</u> 4.6.3 4.6.6 4.7</p>

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
- B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

39.



Location: Various locations surrounding the Senior Center and Library facility.

Noncomplying Condition: No van accessible parking is provided. Curb ramps lack detectable warnings. Parking surface slope exceeds allowable.

Effort to Correct: Significant.

Cost to Correct: \$\$\$ to \$\$\$\$

Suggested Corrective Action: Cold-plane and overlay complying pavement in areas providing parking for the disabled.

Van accessible parking can be provided at one location by re-striping the parking space layout.

CBC
2-1129B.4.2
2-1127B.5 No. 8
2-1129B.4.4
(See Appendix C)

ADAAG
4.6.3
4.7.6

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

<p>40.</p>		<p>Location: Various locations surrounding the Senior Center and Library facility.</p> <p>Noncomplying Condition: Slopes adjacent to the curb ramps have a slope in excess of that permitted.</p> <p>Effort to Correct: Significant.</p> <p>Cost to Correct: \$\$\$ to \$\$\$\$</p> <p>Suggested Corrective Action: Remove and replace the sloping “wings” adjacent to the path of travel ramp.</p>	<p><u>CBC</u> <u>2-1127B.5</u></p> <p><u>ADAAG</u> 4.7</p>
<p>41.</p>		<p>Location: Various locations surrounding the Senior Center and Library facility.</p> <p>Noncomplying Condition: Beveled lip exceeds ½ inch.</p> <p>Effort to Correct: Significant.</p> <p>Cost to Correct: \$\$\$ to \$\$\$\$</p> <p>Suggested Corrective Action: Remove and replace hardscape as appropriate to create a complying condition.</p>	<p><u>CBC</u> <u>2-1127B.5 No. 5</u></p>

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
- B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

42.



Location: Disabled access parking spaces serving the Senior Center and Library.

Noncomplying Condition: Required phone number is not provided in the event that a car is towed for violating disabled access parking requirements.

Effort to Correct: Negligible

Cost to Correct: \$

Suggested Corrective Action: Add the appropriate phone number to the sign.

CBC
2-1129B.5

- Notes:** A) Estimated Effort to Correct is divided into the following four (4) relative categories: Negligible, Minor, Significant, Major.
- B) Estimated Cost to Correct is divided into the following four (4) relative categories: \$ - under \$100; \$\$ - under \$1,000; \$\$\$ - under \$5,000; and \$\$\$\$ - over 5,000.

APPENDIX A

APPENDIX A

Specific California Building Code Requirements Referenced in this Report

<u>CODE SECTION</u>	<u>CODE REQUIREMENT</u>
2-509.1	Unenclosed floor and roof opening, open and glazed sides of stairways, landings and ramps, balconies or porches, which are more than 30" above grade or floor below, and roofs used for other than service of the building shall be protected by a guardrail.
2-509.2	The top of guardrails shall not be less than 42" in height. Where the guardrail supports a handrail, the guardrail requirements must be maintained without interfering with the handrail requirements. A 42" minimum high guardrail is required at all stair and ramp landings and around all openings in the floor provided for a stair. You are strongly recommended to specify a dimension greater than 42" (such as 44") to allow for errors in the field.
2-509.3	Open guardrails shall have intermediate rails or an ornamental pattern such that a sphere 4" in diameter cannot pass through.
1003.2.8.6.1	For the purposes of Section 1003.2.8.6, the term "tactile exit signs" shall mean those required signs that comply with Section 1117B.5.1-B.
1003.2.8.6.1	Tactile exit signs shall be required at the following locations: <ol style="list-style-type: none">1. Each grade-level exterior exit door shall be identified by a tactile exit with the word, "Exit."2. Each exit door that leads directly to a grade-level exterior exit by means of a stairway or ramp shall be identified by a tactile exit sign with the following words as appropriate:<ol style="list-style-type: none">A. "EXIT STAIR DOWN"B. "EXIT RAMP DOWN"C. "EXIT STAIR UP"D. "EXIT RAMP UP"3. Each exit door that leads directly to a grade-level exterior exit by means of an exit enclosure or an exit passageway shall be identified by a tactile exit sign with the words, "EXIT ROUTE."4. Each exit access door from an interior room or area to a corridor or hallway that is required to have a visual exit sign, shall be identified by a tactile exit sign with the words, "EXIT ROUTE."5. Each exit door through a horizontal exit shall be identified by a sign with the words, "TO EXIT."
2-1103B.1	Multistory buildings must provide access by ramp or elevator.

**CODE
SECTION**

CODE REQUIREMENT

- 2-1105B.3.2** Employee work areas shall have a minimum of 36" wide clear access, except as modified in other portions of the regulations. See also 2-1014.1 and 2-1014.2.
- 2-1105B.3.6(1)** Circulation aisles and pedestrian ways shall be sized according to functional requirements and in no case shall be less than 36" in clear width.
- 2-1114B.1.2** When a building, or portion of a building, is required to be accessible or adaptable, an accessible route of travel shall be provided between and/or to the following:
- 1) To all portions of the building;
 - 2) To accessible building entrances;
 - 3) To all accessible parking;
 - 4) Between the building and the public way.
- 2-1115B.2.1** The height of accessible water closets shall be a minimum of 17 inches and maximum of 19 inches measured to the top of a maximum 2" high toilet seat.
- 2-1115B.2.1(2)** Water closet controls for the flush valves shall be mounted on the wide side of toilet areas.
- 2-1115B.2.1.1.1** Where urinals are provided, at least one with a rim projecting a minimum of 14" from the wall and a maximum of 17" above the floor shall be provided.
- 2-1115B.2.1.2.1** Lavatory faucet controls and operating mechanisms shall be operable with one hand in accordance with Chapter 11B of the CBC and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 pounds.
- 2-1115B.2.1.2.1** Accessible lavatories shall be mounted with the rim or counter edge no higher than 34" above the finished floor and with vertical clearance measured from the bottom of the apron or the outside bottom edge of the lavatory of 29" reducing to 27" at a point located 8" back for the front edge.
- 2-1115B.2.1.2.2** Hot water and drainpipes accessible under lavatories shall be insulated or otherwise covered.
- 2-1115B.7.1(3)** In Multiple-accommodation toilet facilities, a water closet fixture located in a compartment shall provide a minimum 32" wide clear space from a wall at one side of the water closet.
- 2-1115B.7.1(3)** In Multiple-accommodation toilet facilities, the water closet shall be located 18" from the centerline of the water closet to the closest wall. Grab bars shall not project more than 3" into the required clear space.
- 2-1115B.7.2** The water closet in a single accommodation toilet facility shall be located in a space which provides a minimum 28" wide clear space from a fixture or a minimum 32" wide clear space from a wall at one side.

**CODE
SECTION**

CODE REQUIREMENT

- 2-1115B.7.2** The water closet in a single accommodation toilet facility shall be located 18" from the centerline of the water closet to the closest wall.
- 2-1115B.8.1** Grab bars shall be securely attached 33" above and parallel to the floor, except that where a tank-type toilet is used which obstructs placement at 33", the grab bar may be as high as 36".
- 2-1115B.8.1** Grab bars shall be at least 42" long with the front end positioned 24" in front of the water closet stool. Grab bars at the back shall not be less than 36" long. See California Building Code Figures 11B-1A, 11B-1B, and 11B-1C.
- 2-1115B.8.2** The diameter or width of the gripping surfaces of a grab bar shall be 1¼ - 1½ inches or the shape shall provide an equivalent gripping surface. If grab bars are mounted adjacent to a wall, the space between the wall and the grab bars shall be 1½". See California Building Code Figure 11B-1C.
- 2-1115B.9.1(2)** Mirrors in accessible toilet rooms shall be mounted with the bottom edge no higher than 40" from the floor.
- 2-1115B.9.2** Where towel, sanitary napkins, waste receptacles, and other similar dispensing and disposal fixtures are provided, at least one of each type shall be located with all operable parts including coin slots, within 40" from the finished floor.
- 2-1117B.1.1** In new construction, where only one drinking fountain area is provided on a floor, there shall be a drinking fountain that is accessible to individuals who use wheelchairs in accordance with Section 1115B.2.1.2 and one accessible to those who have difficulty bending or stooping. This can be accommodated by the use of "hi-low" fountains, or by such other means as would achieve the required accessibility for each group on each floor.
- 2-1117B.1.2** Water fountains shall be located completely within alcoves or otherwise positioned so as not to encroach into pedestrian ways. The alcove in which the water fountain is located shall not be less than 32" in width and 18" in depth. See Figure 11B-3 of the California Building Code.
- 2-1117B.1.2 Ex.** In existing construction, and where the building official finds that it would create an unreasonable hardship to locate the water fountain in an alcove, the water fountain may project into the path of travel, and the path of travel shall be identifiable to the blind as follows:
1. The surface of the path of travel at the water fountain shall be textured so that it is clearly identifiable by a blind person using a cane. The minimum textured area shall extend from the wall supporting the water fountain 1 foot beyond the front edge of the water fountain and shall extend 1 foot beyond each side of the water fountain, OR
 2. Wing walls shall be provided on each side of the water fountain. The wing walls shall project out from the supporting wall at least as far as the water fountain to within 6 inches of the surface of the path of travel. There shall also be a minimum of 32" clear between the wing walls.

**CODE
SECTION**

CODE REQUIREMENT

- 2-1117B.5** See section 1117B.5 of the CBC for specific signage requirements.
- 2-1117B.6 No. 2** Clear floor space complying with Section 1118B.4 that allows a forward or parallel approach by a person using a wheelchair shall be provided at controls, dispensers, receptacles and other operable equipment.
- 2-1117B.6 No. 3** The highest operable part of all controls, dispensers, receptacles and other operable equipment shall be placed within at least one of the reach ranges specified in Sections 1118B.5 and 1118B.6. Electrical and communication system receptacles on walls shall be mounted no less than 15 inches above the floor. **Exception:** These requirements do not apply where the use of special equipment dictates otherwise or where electrical and communications systems receptacles are not normally intended for use by building occupants.
- 2-1118B.5** If the clear floor space allows only forward approach to an object, the maximum high forward reach allowed shall be 48" [see California Building Code Figure 11B-5C(b)]. The minimum low forward reach is 15". If the high forward reach is over an obstruction, reach and clearances shall be as shown in California Building Code Figure 11B-5C(a). See California Building Code Figure 11B-5A
- 2-1118B.6** If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54" and the low side reach shall be no less than 9" above the floor [see California Building Code Figure 11B-5D(a) and (b)]. If the side reach is over an obstruction, the reach and clearances shall be as shown in California Building Code Figure 11B-5D(c). See California Building Code Figure 11B-5D.
- 2-1124B.1** Ground and floor surfaces along accessible routes and in accessible rooms and spaces, including floors, walks, ramps, stairs, and curb ramps, shall be stable, firm, and slip resistant, and shall comply with 2-1124B.
- 2-1124B.2** Changes in level up to ¼" vertical shall be permitted without edge treatment [See California Building Code Figure 11B-5E(c) and (d)]. Changes in level between ¼" and ½" shall be accomplished by means of a ramp that complies with Figure 11B-5E(d).
- 2-1124B.4** If gratings are located in walking surfaces, then they shall have spaces no greater than ½" wide in one direction (see CBC Figure 11B-7B). If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel (see CBC Figure 11B-7B).
- 2-1127B.3** At every primary entrance and at every major junction along or leading to an accessible route of travel, there shall be a sign displaying the international symbol of accessibility. Signs shall indicate the direction to accessible building entrances and facilities and shall comply with the requirements found in Sections 1117B.5 through 1117B.5.9.
- 2-1127B.5 No. 5** The lower end of each curb ramp shall have a ½" lip beveled at 45 degrees as a detectable way-finding edge for persons with visual impairment.

**CODE
SECTION**

CODE REQUIREMENT

2-1127B.5 No. 8

A curb ramp shall have a detectable warning that extends the full width and depth of the curb ramp inside the grooved border when the ramp slope is less than 1 vertical to 15 horizontal.

2-1129B.4.2

One in every eight accessible parking spaces, but not less than one, shall be served by an access aisle 96" (8') wide minimum and shall be designated van accessible as required by Section 1129B.5. All such spaces may be grouped on one level of a parking structure.

2-1129B.4.4

Surface slopes of accessible parking spaces shall be the minimum possible and shall not exceed ¼" per foot in any direction.

2-1129B.5

Van-accessible parking spaces shall have an additional sign stating "Van-Accessible" mounted below the symbol of accessibility.

2-1129B.5

A sign shall be posted in a conspicuous place at each entrance to off-street parking facilities, or immediately adjacent to and visible from each stall or space. The sign shall not be less than 17 inches by 22 inches in size with lettering not less than 1 inch in height, which clearly and conspicuously states the following:

"Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or license plates issued for physically disabled persons may be towed away at owner's expense. Towed vehicles may be reclaimed at _____ or by telephoning _____."

2-1133B.1.1.1

All entrances and exterior ground-floor exits doors to buildings and facilities shall be made accessible to persons with disabilities.

EXCEPTIONS: 1) Exterior ground-floor exits serving smokeproof enclosures, stairwells, and exit doors serving stairs only need not be made accessible.

2) Exits in excess of those required by Section 1114B.2.1 and which are more than 24" above grade are not required to be accessible. Such doors shall have signs warning that they are not accessible. Warning signs shall comply with Section 1117B.5.

3) In existing buildings where the enforcing agency determines that compliance with the building standards of this subsection would create an unreasonable hardship, an exception shall be granted when equivalent facilitation is provided. Equivalent facilitation would require at least one entrance to be accessible to and usable by persons with disabilities.

2-1133B.2.4.1

The floor or landing shall not be more than ½" lower than the threshold of the doorway. Change in level between ¼" and ½" shall be beveled with a slope no greater than 1 unit vertical to 2 units horizontal (50% slope). Change in level greater than ½" shall be accomplished by means of a ramp.

**CODE
SECTION**

CODE REQUIREMENT

- 2-1133B.2.5** Maximum effort to operate doors shall not exceed 5 pounds for exterior and interior doors, such pull or push effort being applied at right angles to hinged doors and at the center plan of sliding or folding doors. Compensating devices or automatic door operators may be utilized to meet the above standards. When fire doors are required, the maximum effort to operate the door may be increased to the minimum allowable by the appropriate administrative authority, not to exceed 15 pounds.
- 2-1133B.2.5.1** If the door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3" from the latch, measured to the landing edge of the door.
- 2-1133B.2.5.2** Latching and locking doors that are hand-activated and which are in a path of travel shall be operable with a single effort by lever-type hardware, panic bars, push-pull activating bars or other hardware designed to provide passage without requiring the ability to grasp the opening hardware. Locked exit doors shall operate as described in the paragraph in the egress direction.
- 2-1133B.4.1.1** Stairways shall have handrails on each side.
- 2-1133B.4.2.1** Handrails shall be 34 to 38" above the nosing of the treads.
- 2-1133B.4.2.2** Handrails shall extend a minimum of 12" beyond the top nosing and 12" plus the tread width beyond the bottom nosing.
- 2-1133B.4.2.6.1** The handgrip portion of stair handrails shall not be less than 1¼" nor more than 1½" in cross-sectional dimension or the shape shall provide an equivalent gripping surface. Edges shall have a minimum radius of 1/8".
- 2-1133B.4.2.6.2** The orientation of at least one handrail shall be in the direction of the run of the stair and perpendicular to the direction of the stair nosing, and shall not reduce the minimum required width of the stairs.
- 2-1133B.4.3** Tactile stair level identification signs that comply with 1117B.1-B shall be located at each floor level landing in all enclosed stairways in buildings two or more stories in height to identify the floor level. At exit discharge level, the sign shall include a raised five pointed star located to the left of the identifying floor level. The outside diameter of the star shall be the same as the height of the raised characters.
- 2-1133B.4.4** The upper approach and the lower tread of each stair shall be marked by a strip of clearly contrasting color at least 2" wide placed parallel to and not more than 1" from the nose of the step or landing to alert the visually impaired. The strip shall be of material that is at least as slip resistant as the other treads of the stair.

APPENDIX B

they shall include the appropriate symbol of accessibility and shall comply with 1117B.5.2 and, when applicable, 1117B.5.8.

1117B.5.2 Finish and contrast. Characters, symbols and their background shall have a non-glare finish. Characters and symbols shall contrast with their background, either light characters on a dark background or dark characters on a light background.

1117B.5.3 Proportions. Characters on signs shall have a width-to-height ratio of between 3:5 and 1:1 and a stroke width to height ratio of between 1:5 and 1:10.

1117B.5.4 Character height. Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an upper-case X. Lowercase characters are permitted. For signs suspended or projected above the finish floor in compliance with Section 1133B.8.6, the minimum character height shall be 3 inches (76 mm).

1117B.5.5 Raised characters and pictorial symbol signs. When raised characters are required or when pictorial symbols (pictograms) are used on such signs, they shall conform to the following requirements:

1. **Character type.** Characters on signs shall be raised ¹/₃₂-inch (0.794 mm) minimum and shall be sans serif uppercase characters accompanied by Grade 2 Braille complying with 1117B.5.6.

2. **Character size.** Raised characters shall be a minimum of ⁵/₁₆ inch (15.9 mm) and a maximum of 2 inches (51 mm) high.

3. **Pictorial symbol signs (pictograms).** Pictorial symbol signs (pictograms) shall be accompanied by the verbal description placed directly below the pictogram. The outside dimension of the pictogram field shall be a minimum of 6 inches (152 mm) in height.

1117B.5.6 Braille. Contracted Grade 2 Braille shall be used wherever Braille is required in other portions of these standards. Dots shall be ¹/₁₀ inch (2.54 mm) on centers in each cell with ²/₁₀-inch (5.08 mm) space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of ¹/₄₀ inch (0.635 mm) above the background.

1117B.5.7 Mounting location and height. Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch outside of the door. Where there is no wall space on the latch side, including at double leaf doors, signs shall be placed on the nearest adjacent wall, preferably on the right.

Mounting height shall be 60 inches (1524 mm) above the finish floor to the center line of the sign. Mounting location shall be determined so that a person may approach within 3 inches (76 mm) of signage without encountering protruding objects or standing within the swing of a door.

NOTE: See also Section 1115B.5 for additional signage requirements applicable to sanitary facilities.

1117B.5.8 Symbols of accessibility.

1117B.5.8.1 Symbols of accessibility. The International Symbol of Accessibility shall be the standard used to identify facilities that are accessible to and usable by physically disabled persons as set forth in these building standards and as specifically required in this section. See Figure 11B-6.

EXCEPTION: Signs need not be provided for facilities within an adaptable dwelling unit, or within an accessible patient or guest room.

1117B.5 Signs and Identification.

NOTE: California's standards for signage are more stringent and are significantly larger and wider than Federal law, Americans with Disabilities Act (ADA) Section 4.30.

1117B.5.1 International symbol of accessibility.

1. **General.** When new or additional signs and/or identification devices are provided, or when existing signs and/or identification devices are replaced or altered, the new or altered signs and/or identification devices shall comply with 1117B.5. The addition of or replacement of signs and/or identification devices shall not trigger any additional path of travel requirements.

2. **Identification signs.** When signs identify permanent rooms and spaces of a building or site, they shall comply with 1117B.5.2, 1117B.5.3, 1117B.5.5, 1117B.5.6 and 1117B.5.7.

NOTE: For other means of egress signs and identification provisions adopted by SFM & DSA/AC see Chapter 10, Sections 1003.2.8.1 for Visual Exit Signs, 1003.2.8.2 for Where Required, 1003.2.8.3 for Graphics, 1003.2.8.4 for Illumination, 1003.2.8.5 for Power Source, 1003.2.8.6 for Tactile Exit Signage, 1003.2.8.6.1 for Where Required, 1003.3.3.13.1 for Tactile Stair Level Identification Sign, and 1003.3.1.10 for Special Egress-control Devices.

3. **Direction and informational signs.** When signs direct to or give information about permanent rooms and space of a building or site, they shall comply with 1117B.5.2, 1117B.5.3 and 1117B.5.4.

4. **Accessibility signs.** When signs identify, direct or give information about accessible elements and feature of a building or site,

1117B.5.8.1.1 Color of symbol. The symbol specified above shall consist of a white figure on a blue background. The blue shall be equal to Color No. 15090 in Federal Standard 595B.

EXCEPTION: The appropriate enforcement agency may approve special signs and identification necessary to complement decor or unique design when it is determined that such signs and identification provide adequate direction to persons with disabilities.

1117B.5.8.1.2 Entrance signs. All building entrances that are accessible to and usable by persons with disabilities shall be identified with a minimum of one International Symbol of Accessibility and with additional directional signs, utilizing the symbol, at junctions, to be visible to persons along approaching pedestrian ways.

1117B.5.8.1.3 Information posted. Buildings that have been remodeled to provide specific sanitary facilities and/or elevators for public use that conform to these building standards shall have this information posted in the building lobby, preferably as part of the building directory. The information shall be accompanied by the International Symbol of Accessibility.

1117B.5.8.2 International symbol of TTY. Where the International Symbol of TTY is required, it shall comply with Figure 11B-14A.

1117B.5.8.3 Volume control telephones. Where telephones with volume controls are required to be identified, the identification symbol shall be a telephone hand set with radiating sound waves, such as shown in Figure 11B-14B.

1117B.5.8.4 Assistive listening systems. Where assistive listening systems are required to be identified by the International Symbol of Access for Hearing Loss, it shall comply with Figure 11B-14C.

1117B.5.9 Traffic-control devices. Pole-supported pedestrian traffic-control buttons shall be identified with color coding consisting of a textured horizontal yellow band 2 inches (51 mm) in width encircling the pole, and a 1-inch wide (25 mm) dark border band above and below this yellow band. Color coding should be placed immediately above the control button. Control buttons shall be located no higher than 48 inches (1219 mm) above the surface adjacent to the pole.

1117B.5.10 Signs for text telephones. Whenever signs shall refer to text telephones for people who are deaf or hard of hearing, the term "TTY" shall be used; the term "TDD" shall not be used.

1117B.5.11 Cleaner air symbol. "STRICTLY FOR PUBLICLY FUNDED FACILITIES OR ANY FACILITIES LEASED OR RENTED BY STATE OF CALIFORNIA. NOT CONCESSIONAIRES." This symbol shall be the standard used to identify a room, facility and paths of travel that are accessible to and usable by people who are adversely impacted by airborne chemicals or particulate(s) and/or the use of electrical fixtures and/or devices. When used, the symbol shall comply with Figure 11B-40.

1117B.5.11.1 Color and size of symbol. The symbol shall be used when the following minimum conditions are met. The symbol, which shall include the text "Cleaner Air" as shown, shall be displayed either as a negative or positive image within a square that is a minimum of 6 inches on each side. The symbol may be shown in black and white or in color. When color is used, it shall be Federal Blue (Color No. 15090 Federal Standard 595B) on white, or white on Federal Blue. There shall be at least a 70% color contrast between the background of the sign from the surface that it is mounted on.

Strictly for publicly funded public facilities or any facilities leased or rented by State of California. Not concessionaires.

1117B.5.11.2 Conditions of use. Use of the cleaner air symbol is voluntary. The cleaner air symbol shall be permitted for use to identify a path of travel, and a room or a facility when the following is met.

1. Floor or wall coverings, floor or wall covering adhesives, carpets, formaldehyde-emitting particleboard cabinetry, cupboards or doors have not been installed or replaced in the previous 12 months.

2. Incandescent lighting provided in lieu of fluorescent or halogen lighting, and electrical systems and equipment shall be operable by or on behalf of the occupant or user of the room, facility or path of travel.

3. Heating, ventilation, air conditioning and their controls shall be operable by or on behalf of the occupant or user.

4. To maintain "cleaner-air" designation only nonirritating, nontoxic products will be used in cleaning, maintenance, disinfection, pest management or for any minimal touch-ups that are essential for occupancy of the area. Deodorizers or Fragrance Emission Devices and Systems (FEDS) shall not be used in the designated area. Pest control practices for cleaner-air areas shall include the use of bait stations using boric acid, sticky traps and silicon caulk for sealing cracks and crevices. Areas shall be routinely monitored for pest problems. Additional nontoxic treatment methods, such as temperature extremes for termites, may be employed in the event of more urgent problems. These pest control practices shall not be used 48 hours prior to placement of the sign, and the facility shall be ventilated with outside air for a minimum of 24 hours following use or application.

5. Signage shall be posted requesting occupants or users not to smoke or wear perfumes, colognes or scented personal care products. Fragranced products shall not be used in the designated cleaner-air room, facility or path of travel.

6. A log shall be maintained on site, accessible to the public either in person or by telephone, e-mail, fax or other accessible means as requested. One or more individuals shall be designated to maintain the log. The log shall record any product or practice used in the cleaner-air designated room, facility or path of travel, as well as scheduled activities, that may impact the Cleaner-Air designation. The log shall also include the product label as well as the material Safety Data Sheets (MSDS).

1117B.5.11.3 Removal of symbol. If the path of travel, room and/or facility identified by the cleaner air symbol should temporarily or permanently cease to meet the minimum conditions as set forth above, the cleaner air symbol shall be removed and shall not be replaced until the minimum conditions are again met.

APPENDIX C

5. **Beveled lip.** The lower end of each curb ramp shall have a 1/2 inch (13 mm) lip beveled at 45 degrees as a detectable way-finding edge for persons with visual impairment.

6. **Finish.** The surface of each curb ramp and its flared sides shall be stable, firm and slip-resistant and shall be of contrasting finish from that of the adjacent sidewalk.

7. **Border.** All curb ramps shall have a grooved border 12 inches (305 mm) wide at the level surface of the sidewalk along the top and each side approximately 3/4 inch (19 mm) on center. All curb ramps constructed between the face of the curb and the street shall have a grooved border at the level surface of the sidewalk. See Figures 11B-19A and 11B-19B.

8. **Detectable warnings.** A curb ramp shall have a detectable warning that extends the full width and depth of the curb ramp inside the grooved border when the ramp slope is less than 1 unit vertical to 15 units horizontal (6.7% slope). Detectable warnings shall consist of raised truncated domes with a diameter of nominal 0.9 inch (22.9 mm) at the base tapering to 0.45 inch (11.4 mm) at the top, a height of nominal 0.2 inch (5.08 mm) and a center-to-center spacing of nominal 2.35 inches (59.7 mm) in compliance with Figure 11B-23A. "Nominal" here shall be in accordance with Section 12-11A and B-102, State Referenced Standards Code. The detectable warning shall contrast visually with adjoining surfaces, either light-on-dark or dark-on-light. The material used to provide contrast shall be an integral part of the walking surface. The domes may be constructed in a variety of methods, including cast in place or stamped, or may be part of a prefabricated surface treatment.

Only approved DSA/AC detectable warning products and directional surfaces shall be installed as provided in the California Code of Regulations (CCR), Title 24, Part 1, Articles 2, 3 and 4. Refer to CCR Title 24, Part 12, Chapter 12-11A and B, for building and facility access specifications for product approval for detectable warning products and directional surfaces.

NOTE: Detectable warning products and directional surfaces installed after January 1, 2001, shall be evaluated by an independent entity, selected by the Department of General Services, Division of the State Architect-Access Compliance for all occupancies, including transportation and other outdoor environments, except that when products and surfaces are for use in residential housing evaluation shall be in consultation with the Department of Housing and Community Development. See Government Code Section 4460.

9. **Obstructions.** Curb ramps shall be located or protected to prevent their obstruction by parked cars.

10. **Diagonal curb ramps.** If diagonal (or corner-type) curb ramps have returned curbs or other well-defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48 inches (1219 mm) minimum clear space as shown in Figure 11B-22 (c) and (d). If diagonal curb ramps are provided at marked crossings, the 48-inch (1219 mm) clear space shall be within the markings (see Figure 11B-20B, Cases C and D). If diagonal curb ramps have flared sides, they shall also have at least a 24-inch-long (610 mm) segment of straight curb located on each side of the curb ramp and within the marked crossing [see Figure 11B-22 (c)].

NOTES: 1. For additional curb details, see Figures 11B-19A and 11B-19B.

2. If distance from curb to back of sidewalk is too short to accommodate a ramp and a 4-foot (1219 mm) platform as in Figure 11B-20A, Case A, the sidewalk may be depressed longitudinally as in Figure 11B-20A, Case B, or Figure 11B-20B, Case C, or may be widened as in Figure 11B-20B, Case D.

3. If sidewalk is less than 5 feet (1524 mm) wide, the full width of the sidewalk shall be depressed as shown in Figure 11B-20B, Case C.

1127B.5 Curb Ramps.

1. **General.** Curb ramps shall be constructed at each corner of street intersections and where a pedestrian way crosses a curb. The preferred and recommended location for curb ramps is in the center of the crosswalk of each street corner. Where it is necessary to locate a curb ramp in the center of the curb return and the street surfaces are marked to identify pedestrian crosswalks, the lower end of the curb ramp shall terminate within such crosswalk areas. See Figure 11B-20C, Case E.

2. **Width of curb ramps.** Curb ramps shall be a minimum of 4 feet (1219 mm) in width and shall lie, generally, in a single sloped plane, with a minimum of surface warping and cross slope.

3. **Slope of curb ramps.** The slope of curb ramps shall not exceed 1 unit vertical to 12 units horizontal (8.33% slope). Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes, except that curb ramps shall comply with Item 5 below. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1 unit vertical to 20 units horizontal (5% slope) within 4 feet (1219 mm) of the top and bottom of the curb ramp. The slope of the fanned or flared sides of curb ramps shall not exceed 1 unit vertical to 10 units horizontal (10% slope).

4. **Level landing.** A level landing 4 feet (1219 mm) deep shall be provided at the upper end of each curb ramp over its full width to permit safe egress from the ramp surface, or the slope of the fanned or flared sides of the curb ramp shall not exceed 1 unit vertical to 12 units horizontal (8.33% slope).

