

NPS FINAL ACCESSIBILITY INSPECTION REPORT



PROJECT & CONTRACT NO. SAFR 102086 Rehab failing amphitheater

DATE OF INSPECTION: 6/24/2010

NPS ACCESSIBILITY INSPECTOR Joanne Cody

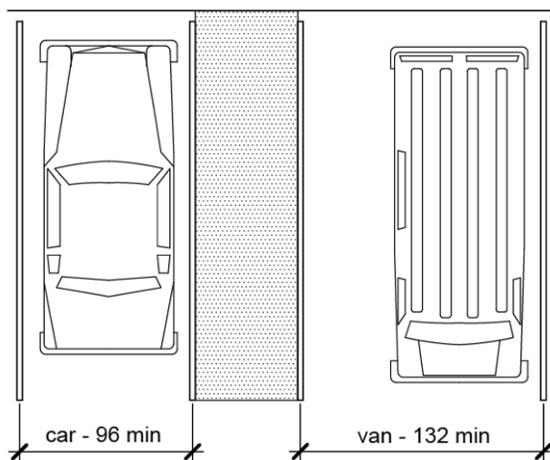
PROCEDURE

Upon completion of work, a final accessibility inspection shall be completed by the NPS Accessibility Inspector (Park Region or DSC Accessibility Coordinator or qualified designee). All deficiencies will be noted in Section 10 and added to the punch list, and shall be corrected in a timely manner. This report shall be filed with the CQC Daily Reports in the official project files and copy to the DSC Quality Assurance (QA) Accessibility Coordinator. It is understood that this inspection in no way prejudices any claim against the contractor for faulty material, poor workmanship, or failure to comply with the requirements of the authority having jurisdiction or local ordinances.

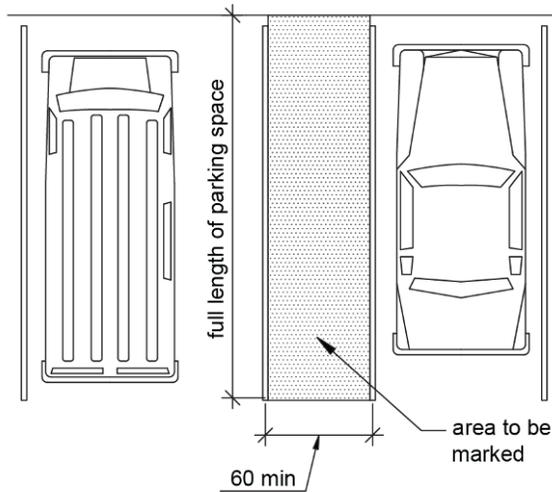
1. Parking and Passenger Loading Zones: Attach grading plan with running and cross slope readings noted.

Location/Notes:

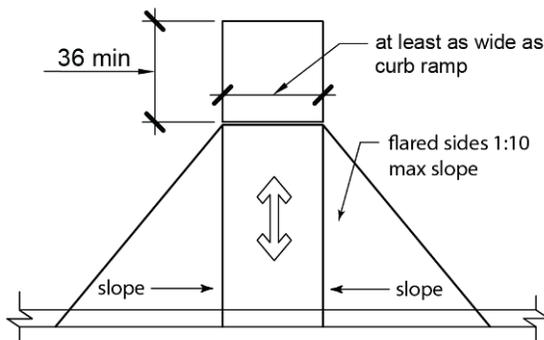
- | | Yes | No | N/A | |
|----|--------------------------|--------------------------|-------------------------------------|---|
| a) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Accessible parking spaces and access aisles running slope and cross slope is 1:48 (2%) or less. |
| b) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Car spaces are at least 96 inches wide and van spaces 132 inches wide, and have an adjacent access aisle. |
| c) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Access aisles are 60 inches wide min. and adjoin an accessible route. |
| d) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Curb ramps meet slope requirements for ramps and have 36 inch minimum landing length at top of ramp. |
| e) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Curb ramp flared side slopes are 1:10 (10%) or less. |



1.b) Parking Space Widths



1.c) Access Aisle



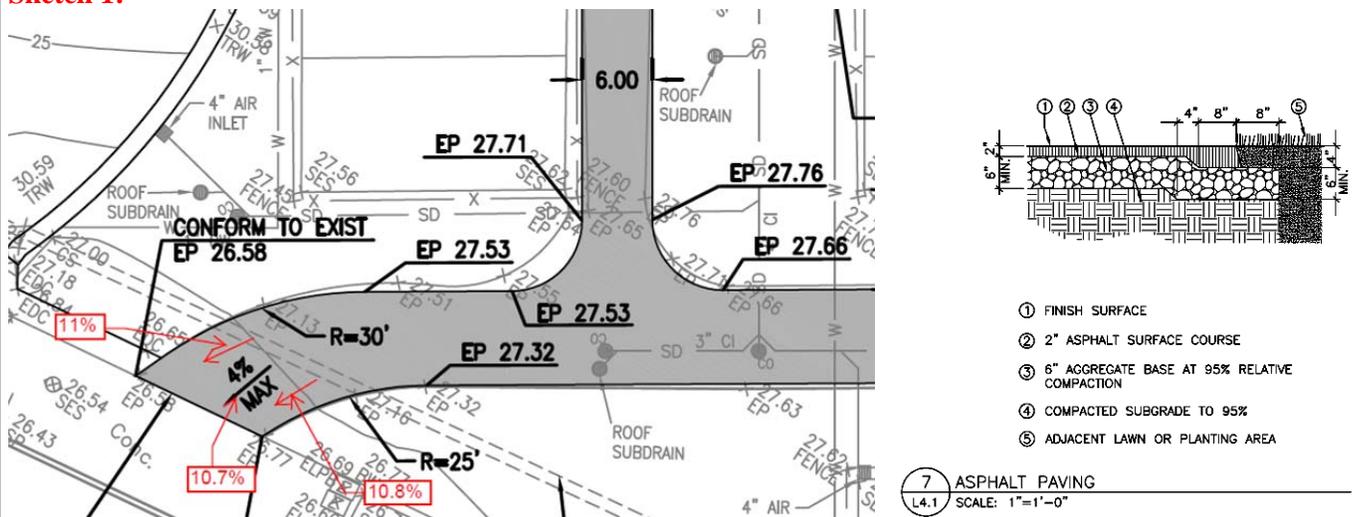
1.d,e) Curb Ramp Sides and Landings

2. Walking surfaces and Accessible Route: The accessible route is defined as the pedestrian route from the accessible parking and passenger loading zones to all accessible facilities and features. Attach grading plan with accessible route highlighted and running and cross slope readings noted.

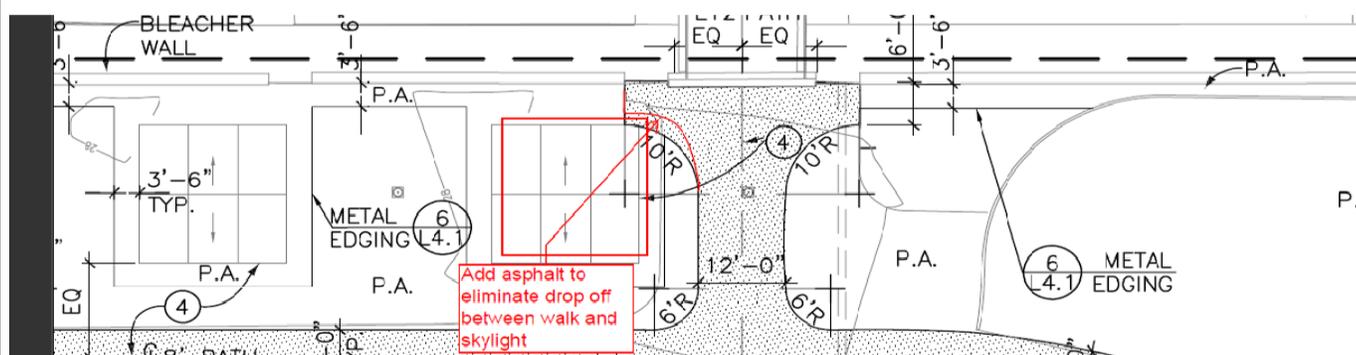
Location/Notes: **Width of multi-use trail on west side of museum is too tight to allow for bicycles and pedestrian use. Should be 14' wide minimum; recommend 16' width for added safety to allow cyclists, wheelchair users, parents with strollers etc. to safely pass.**

- | | Yes | No | N/A | |
|----|-------------------------------------|-------------------------------------|--------------------------|---|
| a) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Floor and ground surfaces are stable, firm, and slip resistant as defined by ADAABAAG Advisory 302.1 |
| b) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Running slope of all walking surfaces on the accessible route is 1:20 (5%) or less. 12' length of walk from museum sidewalk toward bleachers is graded at 11%, designed at 4% max. See sketch 1 below. |
| c) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Cross slope of walking surfaces is 1:48 (2%) or less. Center walk to central bleacher cross slope is 4% or more at entrance to bleacher. Drop off at walk edge is 6". See detail below for project requirement. See sketch 2 below. |
| d) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Clear widths of walking surfaces are 36 inches minimum. |
| e) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Elongated openings in floor or ground surfaces are 1/2 inch wide or less. Interior expansion joints greater than 1/2" |
| f) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Elongated openings are perpendicular to direction of travel. |
| g) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Accessible route surface changes are 1/2 inch or less with 1/4 inch maximum vertical change. Locations in restrooms and in hall in front of W108 where utilities have been removed have change in elevation greater than 1/2". Threshold at door to east bleacher alley door is 1/2" vertical. |
| h) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Floor drains and grates on accessible route meet all above requirements |

Sketch 1:



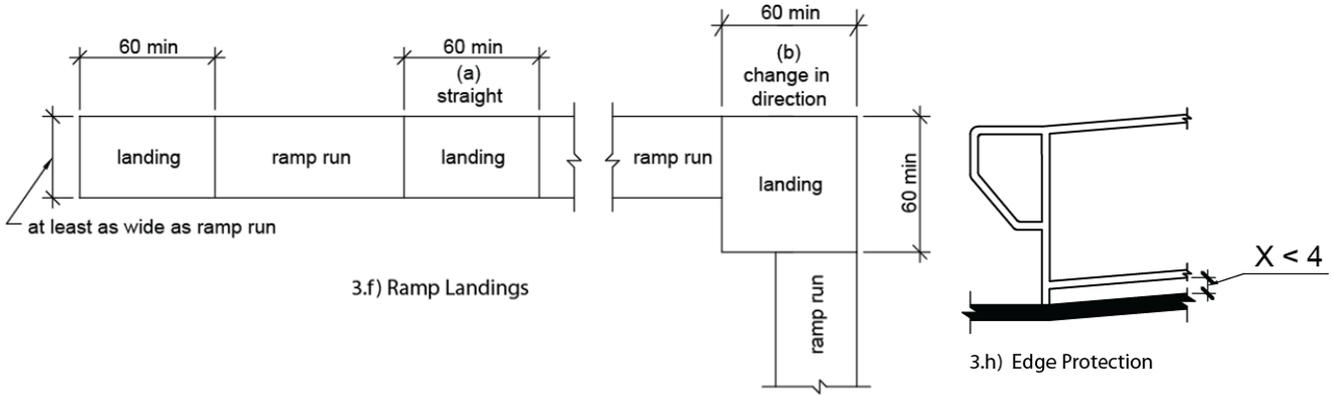
Sketch 2:



3. Ramps: Ramps are defined as walking surfaces on the accessible route that are steeper than 1:20 (5%) but less than 1:12 (8.33%). Attach grading plan with running and cross slope readings noted.

Location/Notes: **Walk constructed in Sketch 1 above does not meet requirements for accessible ramp.**

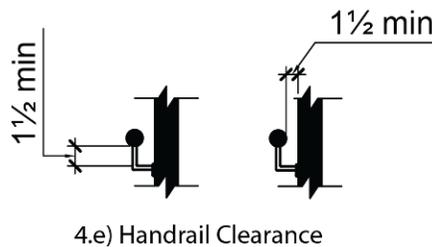
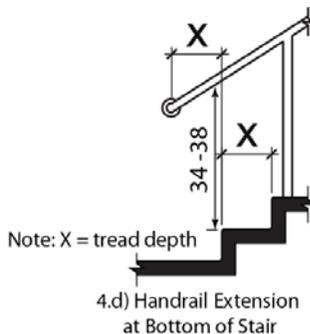
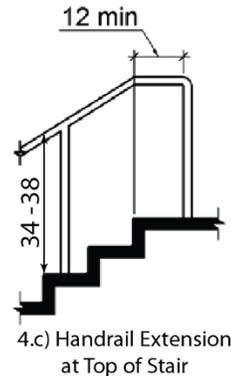
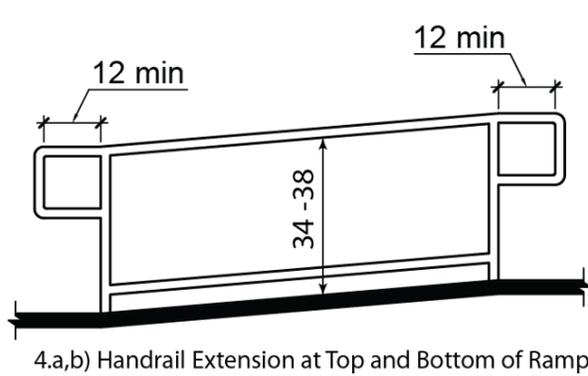
	Yes	No	N/A	
a)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Running slope is 1:12 (8.33%) or less. Measured at 2-foot intervals. 11%
b)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cross slope is 1:48 (2%) or less. Measured at 2-foot intervals.
c)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clear width is 36 inches minimum, clear width between handrails is 36 inches minimum.
d)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rise for any ramp run is 30 inches maximum.
e)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ramps have landings at the top and the bottom of each ramp run.
f)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landing clear length is 60 inches minimum, running slope and cross slope of landing is 1:48 (2%) or less.
g)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ramps with a rise greater than 6 inches have handrails. No handrails.
h)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ramps and landings have edge protection on both sides that prevents passage of a 4 inch diameter sphere.



4. Handrails:

Location/Notes: **Stairs to west lawn area at west bleachers. Add compliant handrails, both sides.**

	Yes	No	N/A	
a)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Top of handrail is 34 inches minimum and 38 inches maximum vertically above walking surfaces.
b)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Handrails extend 12 inches minimum beyond the top and bottom of ramp runs.
c)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Handrails extend horizontally 12 inches minimum at top of stairs.
d)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Handrails extend at slope of the stair flight at bottom of stairs minimum one tread depth beyond last riser.
e)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Handrail clearance is 1 1/2 inches clear minimum to walls and above horizontal attachments.



5. Drinking fountains (Two spout heights required for each drinking fountain):

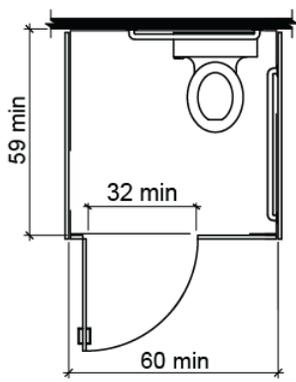
Location/Notes:

	Yes	No	N/A	
a)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Spout outlet is 36 inches maximum above the finish floor or ground for wheelchair accessible spout.
b)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Spout outlet for standing persons is 38 inches minimum and 43 inches maximum above the finish floor.
c)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Drinking fountain is recessed or has 27 inches maximum space from floor to bottom of fountain.

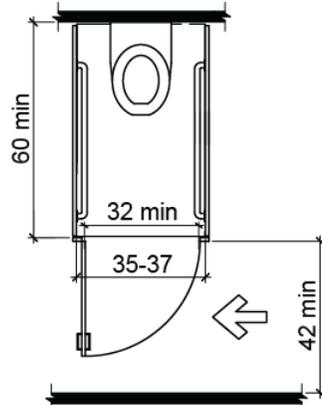
6. Toilet Compartments: Attach floor plan with as-constructed dimensions noted.

Location/Notes: **CM 102, W108**

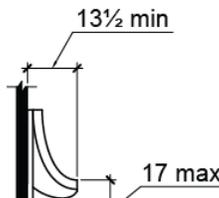
	Yes	No	N/A	
a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wheelchair accessible compartment is 60 inches wide min., and 59 inches deep minimum.
b)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ambulatory stall is 60 inches deep min. width of 35 inches min. and 37 inches max, toilet is centered in stall.
c)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Accessible compartment has 32 inch wide door opening minimum with door opening outward, or adequate clear space for door opening inward.
d)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Seat height is 17 inches minimum and 19 inches maximum measured to the top of the seat.
e)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Urinal rim is 17 inches maximum above the finish floor and 13 1/2 inches deep minimum. Urinals are existing, historic.
f)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Urinal has a clear floor space of 30 inches wide by 48 inches long minimum.
g)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Side wall grab bar is 42 inches long minimum, located 12 inches maximum from the rear wall.
h)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rear wall grab bar is 36" long min. extends from toilet centerline 12" min. one side, 24" min. other side.
i)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grab bar height is 33 inches minimum and 36 inches maximum.
j)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Toilet paper dispensers are 7 inches min. and 9 inches max. in front of the toilet to centerline of the dispenser. Dispenser in CM 102 and W108 are 5 1/2" from toilet centerline.
k)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Toilet paper dispenser outlet is 15 inches minimum and 48 inches maximum above the finish floor.
l)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Centerline of the wheelchair stall toilet is 16 inches min. to 18 inches max. from the side wall.
m)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sinks and counters are 34 inches max. above the finish floor with 27 inches min. knee space. Sink drain pipes are insulated, or concealed.



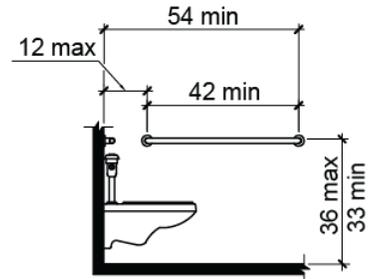
6.a,c) Wheelchair Accessible Compartment



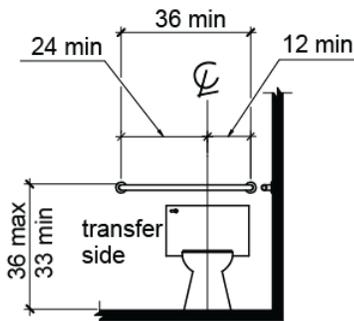
6.b,c) Ambulatory Stall



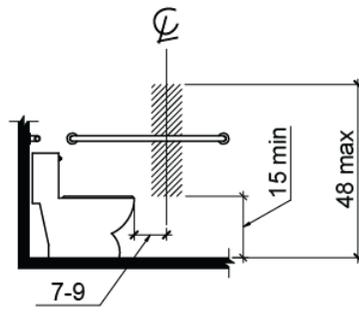
6.e) Urinal Rim Location



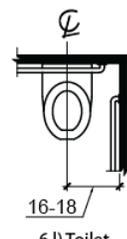
6.g,i) Side Wall Grab Bar Location



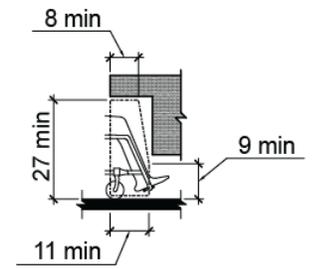
6.h,i) Rear Wall Grab Bar Location



6.j,k) Toilet Paper Dispenser Location



6.l) Toilet Location



6.m) Lavatory Knee Space

7. Service Counters, Dining and Work Surfaces: (Service counters are parallel or forward approach)

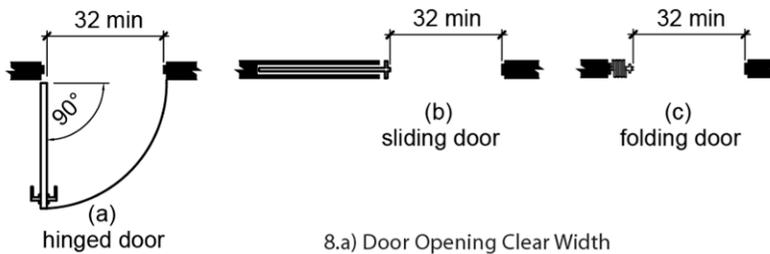
Location/Notes:

	Yes	No	N/A	
a)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Parallel Approach. Counter is 36 inches long min. and 36 inches high max.
b)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Forward Approach. Counter surface is 30 inches long min. and 36 inches high max, knee space under counter.
c)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tops of dining and work surfaces are 28 inches minimum and 34 inches maximum above the finish floor.

8. Doors:

Location/Notes: Restroom door CM102 and W108

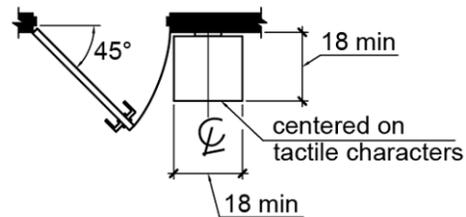
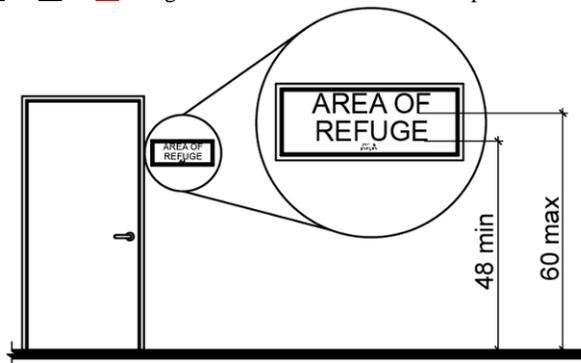
	Yes	No	N/A	
a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Door openings on accessible routes provide a clear width of 32 inches minimum.
b)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Door closers move door from open position of 90 degrees to 12 degrees from the latch is 5 seconds min.
c)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Spring hinge doors close from open position of 70 degrees to closed position in 1.5 seconds minimum.
d)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire doors have the minimum opening force allowable by the appropriate administrative authority.
e)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Interior hinged doors have an opening force of 5 pounds maximum. CM102 and W108 have 10lb. or more opening pressure.



9. Signs:

Location/Notes: Signs to be placed by park.

	Yes	No	N/A	
a)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Parking space signs are 60 inches minimum above finish ground surface measured to the bottom of the sign.
b)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Van parking space sign includes the designation "van accessible".
c)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Tactile characters on signs are 48 inches minimum and 60 inches maximum above the finish floor.
d)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sign is located alongside the door at the latch side.
e)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sign is located with a clear floor space of 18 inches by 18 inches minimum.



10. Deficiencies: Describe deficiencies below and attach photos. All deficiencies will be added to the punch list.

a) Deficiency: Width of multi-use trail on west side of museum is too tight to allow for bicycles and pedestrian use.

Corrective Actions Needed/Taken: Increase width of asphalt walk to 14' minimum; recommend 16' width for added safety to allow cyclists, wheelchair users, parents with strollers etc. to safely pass.

b) Deficiency: Walk from existing sidewalk toward bleachers is too steep. 11% slope, designed at 4% max

Corrective Actions Needed/Taken: Verify walk slope cannot be reduced, add ABAAS compliant walk at less than 5% from east bleacher walk to sidewalk adjacent to bus shelter.

c) Deficiency: Interior expansion joint is wider than ½" filler material is mostly missing.

Corrective Actions Needed/Taken: Fill in joint to provide level walk.

d) Deficiency: Toilets removed from accessible stalls of CM102 and W108 and utilities removed from hall outside W108 have recessed or raised areas greater than ½"

Corrective Actions Needed/Taken: Fill in/cut off to make areas flush with surrounding floor.

e) Deficiency: Stairs to west lawn/skylight area do not have ABAAS compliant handrails.

Corrective Actions Needed/Taken: Add handrails on both sides of stairs.

f) Deficiency: Toilet paper dispensers in the accessible stalls of CM102 and W108 are only 5 ½" from front centerline of toilet.

Corrective Actions Needed/Taken: Move dispensers to be 7 to 9" from front toilet centerline.

g) Deficiency: Doors in restrooms CM102 and W108 have an opening force of 10lbs

Corrective Actions Needed/Taken: Install accessible hardware to provide maximum opening force of 5lbs.

h) Deficiency: East walk to Central bleacher has steep cross slope and 6" drop off, walk width not as shown on layout plan.

Corrective Actions Needed/Taken: Extend walk to skylight, provide 2% or less cross slope and fill in lawn or planted areas to be flush with walk as detailed.

i) Deficiency: East bleacher alley door has 1/2" high vertical threshold.

Corrective Actions Needed/Taken: Add beveled threshold to have max. 1/4" vertical and 1/4" beveled max. threshold.

j) Deficiency: Asphalt surface adjacent to and between railroad tracks in front of bleachers does not meet ABAAS requirements for slope, vertical elevation change. See Sketch 3 below for area of concern.

Corrective Actions Needed/Taken: Replace asphalt to provide level transitions and walking surface.

Sketch 3:
Asphalt very uneven with vertical change in elevation exceeding 1 – 2"

