



- General environment—are there ped generators in close proximity to the TCZ?
 - -- schools
 - -- shopping areas
 - -- community/senior centers
 - -- transit facilities

Considerations in Creating an Accessible Alternate Pathway (2)

- Traffic characteristics
 - -- speed
 - -- volume
 - -- significant presence of commercial vehicles



No Sidewalk?

- If no sidewalk, no wide shoulder where peds walk, or no evidence of ped activity (e.g., worn earth path or visual observation of people walking), the project may not require an accessible alternative ped route.
- But be sure to document reasons why.

MUTCD Section 6N.04

 Pedestrian detours should be avoided since peds rarely observe them and the cost of providing accessibility and detectability might outweigh the cost of maintaining a continuous route. Whenever possible, work should be done in a manner that does not create a need to detour pedestrians from existing routes or crossings.

Note!

 Depending on traffic characteristics and surrounding environment, a route that uses a vehicle lane width for the ped pathway may be shorter, safer and more usable than one that requires two street crossings.







Components of an Accessible/Detectable Temporary Path

- Detectable Edging
- Channelizing Devices
- Pathway Width and Surface
- Temporary Ramps
- Sidewalk Closures
- Audible Devices

Note—MUTCD Section 6C.02

 Guidance states that tape, rope or plastic chain strung between devices should not be used to control ped movements because they are not detectable and are therefore not accessible to and usable by individuals with disabilities.







- R303.6.1 -- The top of the top detectable edging shall be no lower than 32 inches above the walking surface and be free of sharp or abrasive surfaces.
- R303.6.2 The bottom of the bottom detectable edging shall be 2 inches maximum above the walking surface.

Detectable Edging for Pedestrians (MUTCD 6M.04)

- Should be provided throughout the length of the facility.
- Should extend at least 8 inches above surface of pathway with bottom of the edging a maximum of 2 inches above the surface.
- Should be firmly attached to the ground or to other devices. Adjacent sections should be interconnected.







Ped Channelizing Devices • Ped channelizing devices indicate a suitable path of ped travel around or through the work zone.















Channelizing Device Requirements

- Cane Ready—continuous smooth lower rail
- Hand Trailing—continuous, smooth upper rail
- Obstacle-Free—common plane, no intrusions into pathway
- Continuous Guidance—smooth connection points, no gaps







Temporary Traffic Barriers (2)

 TTB's need to be supplemented with standard delineation, pavement markings or channelizing devices for improved visibility if they are used to channelize vehicular traffic











PROWAG: Pathway Width

- Minimum continuous clear width of 48 inches, free of obstructions, must be maintained (60 inches recommended)
- Where clear width is less than 60 inches, passing spaces (5 ft by 5 ft) must be provided at intervals of a maximum of 200 feet

R303.3--Alternate Pedestrian Access Routes

 Alternate PAR surfaces shall comply with 302.6 or shall not be less accessible than the surface of the temporarily closed ped circulation path.













Potential Solutions

- Roll it every day?
- Mix additives/stabilizers with the material?
- Cold-patch type asphalt?
- Others?























Covered Pathways

- Where work activities take place above a ped walkway for extended period, "a canopied walkway may be used" to protect from falling debris (Section 6C.02).
- Short-term closures of walkways and provision of alternate routes should be provided any time construction materials or operations occur over a ped walkway



- If accessible route uses canopied walkway, MUTCD states such a walkway should have minimum of 7 ft (84 inches) of headroom. PROWAG calls for 80 inches.
- Objects with leading edges more than 27 inches and not more than 80 above the walk are not permitted to protrude more than 4 inches into ped pathway.





Handrail Requirements

- Be sure handrails have a width between 1.25 and 1.5 in. and contain graspable x-section.
- Edges must have minimum radius of 1/8 inch
- Handrails are prohibited from being able to rotate within their fittings
- On switchback or dogleg ramps, the inside handrail must be continuous
- ADAAG has structural strength requirements



Sidewalk Closures

 Where pedestrians with visual disabilities normally use a closed sidewalk, a barrier that is detectable by a person with a visual disability traveling with the aid of a long cane <u>shall</u> be placed across the full width of the closed pedestrian facility (MUTCD Section 6C.03).











Guides

- A guide can be provided in advance of TTC area to assist any disabled persons in navigating the accessible pathway.
- May be appropriate in areas with higher concentrations of individuals with disabilities.





















Crosswalks Provide Access to Curb Ramps, So They Must Be Kept Clear or Barricaded (need education, awareness, enforcement)





























Questions

- Is this the best way to handle this activity?
- How might you approach it?





















