### Pedestrian MOT Standards

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#### Pedestrian MOT Themes

- Presence of Sidewalks = Pedestrian Demand
  - Assumption of need to provide Temporary Facilities

- Temporary Facilities
  - Must be MUTCD compliant
  - Should maintain the same level of service

- INDOT Standards are needed

- Pedestrian Vulnerability—Ped Crashes/Fatalities are on the rise
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Pedestrian Fatalities

All Indiana Roads

• 67 in 2011, 123 last year
• Peds were 9% of all fatalities in 2011-12% in 2020
• Since 2019, 9 pedestrians killed in work zones

Source: ARIES crash database

ERIN, Agency Links, Data Discovery, INDOT Answers (full email address and normal log-in password), Dashboard 17 (Traffic Safety Portal)

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Indiana Pedestrian Fatalities - All Roads

* 2022 Projected

![Graph showing pedestrian fatalities from 2019 to 2022]
## INDOT Pedestrian MOT Standards

### Sidewalk Closures

- Detour - closes sidewalk to through pedestrian movement
- Diversion to the Street Side - temporary path between sidewalk and road
- Diversion to the House Side - between sidewalk and R/W

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## INDOT Pedestrian MOT Standards

### Pedestrian Detour

- Barricades
- Signs
- Audible Information Devices
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Pedestrian Diversion

- Compared to a Detour
  - Keeps peds along their normal path
  - Less walking, less street crossing
- Temp path, curb ramps, and ped channelizers
  ~ 7 to 9 ft of cross section width needed
- Street Side version:
  - Takes away parking or adjacent travel lane
  - Pedestrians closer to vehicular traffic
  - Temporary Traffic Barrier may be needed

→ A house side diversion preferable to a street side, R/W allowing

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Other Restrictions

- Curb Ramp and Crosswalk Closures: reroute to another crossing location
  - Closest, safe route back to the normal path
- Construction in a travel lane adjacent to sidewalk-
  - Pedestrian channelizers should be used.
  - Temporary traffic barrier may be needed with significant drop-offs
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Temporary Accessible Pedestrian Path

- Substitutes for existing/permanent sidewalk
- Contractor’s choice- can be prefabricated or standard construction materials- plywood not allowed
- Stable, slip resistant
- At least 48” wide
- Cross slope ≤ 2%
- If on house side subgrade work may be needed

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Temporary Curb Ramp

- Prefabricated or standard construction material (asphalt/concrete)
- Either perpendicular or parallel to road, if parallel a 4’ x 4’ landing area is needed
- At least 48” wide, running slope ≤ 8.33%, cross Slope ≤ 2.00%
- Height
  - ≤ 4” edge protection or flared sides
  - > 4” in height, edge protection is required
  - > 6” handrails are also required
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Temporary Curb Ramp (examples)

• Separating pedestrians from the work area

• Requirements
  • At least 32” in height
  • Hand trailing edging towards top
  • Detection plate towards bottom
  • Alternating Orange & White stripes at top and bottom

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Pedestrian Channelizers (examples)

Audible Information Devices

- Speech message for visually impaired
  - Informs of a sidewalk closure
  - Guides to the detour route

- Activated by built in sensor or push button
  - Locator tone provided for push buttons

- Mounted on
  - Barrier
  - Barricade, or
  - Independent support
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Standard Development Status

• Specifications and Drawings - under development
  • Specs: Temp Access Path, Temp Curb Ramps, Ped Channelizers, Audible Info Devices
    These items paid for separately, costs are not trivial
  • Drawings: Detours, Diversions, Crosswalk Closings
• Design Guidance: drafted but not final
  • Will be included in a Design Manual, Chapter 503 revision
• Qualified Products List - being established
  • Indiana Test Method approved last fall: https://www.in.gov/indot/div/itm/pubs/958_testing.pdf
  • Products are currently under evaluation - should be completed this summer

Designer Should...

• Include needed Pay Items
  801-11990, Temporary Curb Ramp (ea)
  801-12641, Temporary Accessible Pedestrian Path (sys)
  801-08401, Pedestrian Channelizer (lt)
  barricades, construction sign, temp traffic barrier
• For sidewalk closures, choose treatment type - detour or diversion
• MOT Plan Details - if Standard Drawings are not sufficient for the project
  • MUTCD Typical Figures 6H-28 & 6H-29 can be used until standards are in effect
• Discuss Pedestrian needs during field checks, may consult with the ADA Technical Advisory Committee
INDOT Pedestrian MOT Standards

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