

# Temporary Pedestrian Accessible Routes (TPAR), in Oregon

2023 NWPMA - TPAR

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**TPAR History**US and Oregon, Pedestrian Accommodation Requirements

1973



1991



1993



20023



2016



2023



Section 504 Rehab.

Act

ADAAG

MUTCD

ODOT **Standards**  Settlement

**PROWAG** 



#### **TPAR**

#### Critical Definitions

- "PEDESTRIAN" Includes pedestrians with accessibility needs
- "ACCESSIBILITY" Continued access to facilities during work
- "TEMPORARY PEDESTRIAN ACCESSIBLE ROUTE" (TPAR)
  - Area used by pedestrians to navigate through or around work area
- "TEMPORARY PEDESTRIAN ACCESSIBLE ROUTE PLAN"
  - Written and/or drawn plan for the project
  - Identifies required responsibilities and components within TPARs



#### TPAR - MUTCD

#### **Pedestrian Accommodation Principles**

- 1. Do not lead pedestrians into conflicts...
- 2. Use existing roadway features...
- 3. Provide a convenient, contiguous pathway that equals or exceeds existing path.
- 4. Minimize travel
- 5. Sign closures at and in advance of closures.
- 6. Provide public information



#### TPAR - MUTCD

#### **Key Components of TPAR**

- A level of accessibility equal to or better than the existing pedestrian facility
- 2. Accessible Features Sidewalk ramps, landing pads, traversable surfaces, manageable grades, cross slopes, etc.
- 3. Detectable Warning Features, detectable edges, curbs.
- Route and route features meeting applicable ODOT and MUTCD Standards including
  - 1. Sidewalk ramps with a maximum running slope of 7.5%
  - Constructed temporary sidewalks, paths and sidewalk ramps with a maximum cross slope of 1.5%
  - 3. 60 inch continuous sidewalk widths; or, 48 inch widths with 60 inch x 60 inch level landings (max. 2% slope) every 200 feet
  - 4. Continuous and detectable surfaces with vertical drops or edges less than 1/4 inch



#### **TPAR - Standards**

ODOT Traffic Control Plans Design Manual – Jan. 2023 Ed. Accommodation Principles – During Design <u>and</u> Construction

- MUTCD (Chapter 6), ADA; and...
- Provide "EQUAL TO" or "BETTER" Level of Accessibility (ODOT)

Not necessarily "ADA-compliant", but no <u>new</u> accessibility barriers



#### TPAR – Full Standards

- 60" width, ADA compliant ramps
- Temporary Path/Sidewalk with ADA compliant ramps
- Separation between path/sidewalk and work/traffic
- Continuous



#### **TPAR Devices**

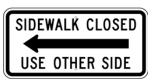
Existing





Signs

Vehicle











Markings

Transit

Flagger Surface Domes













#### TPAR - "EQUAL TO" or "BETTER"

Why not always meet full ADA Standards?





#### **TPAR – "EQUAL TO" or "BETTER"**

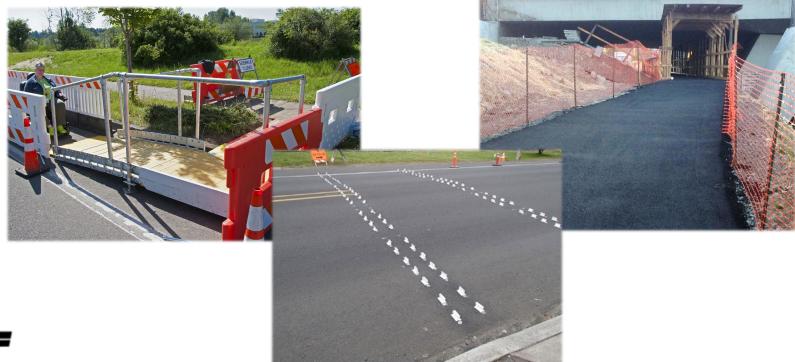
- Match Existing Level of Accessibility
- Provide an alternate method to accommodate peds
  - Detour / Alternate Route
  - Flaggers
  - Shuttle
  - Full Closure, all traffic



## **TPAR – Applications**

Project specific solutions for each project







## **TPAR – Document Existing Condition**

#### Document existing condition

- Survey
- Photos/Video
- TMP



## **TPAR – Document Exceptions**

Document any TPAR exceptions versus existing condition

TMP



#### **TPAR – Design Considerations**

- Existing Facility Inventory What are we starting with?
- Anticipated Pedestrian Volumes Generators? Destinations?
- Scope of Work
- Impact Duration and Severity
- TPAR Opportunities
- Staging
- Closures





#### **TPAR – Design Considerations**

#### PUBLIC NOTIFICATION & OUTREACH

- During Project Development <u>AND</u> through Construction
- Outreach to Media, Citizen Groups (AOCIL), Stakeholders
- Postings on the Project Site
- Notifications Updated over Life of the Project
  - As Project Design changes
  - 10-Day Advance Notification signing (ODOT Specifications)
  - Pedestrian-Specific signing (ODOT Sign Policy)



#### **TPAR – Design Considerations**

#### **SHORT DURATIONS**



- Brief, intermittent stoppages (1-5 mins).
- Workers may escort pedestrians around hazard.

#### LONG-TERM IMPACTS



- Longer-duration closures with detours.
- PCD, Curb ramps, and other devices used to maintain pedestrian mobility.



## **TPAR – Design Resources(ODOT)**

# ODOT Technical Services Bulletin, TSB17-01

#### **PURPOSE**

The purpose of this Technical Services Bulletin is to inform those responsible for the design and implementation of work zones of their obligations to include Temporary Pedestrian Accessible Routes. If pedestrians could travel through the area before the work zone is put in place, pedestrians, including people with disabilities, must be able to travel through or around the area once the work zone is in place. This requirement applies regardless of the type of facility or whether the facility has pedestrian features such as sidewalks. Temporary pedestrian routes through or around the work zone must be equivalent to or better than what existed for use before the work zone.

https://www.oregon.gov/ODOT/Engineering/Doc\_TechnicalGuidance/TSB17-01D.pdf



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This obligation applies to all work zones included on any of the following:

- . All work zones on or along the State Highway System, regardless of funding source.
- · All work zones for projects funded by the federal-aid highway program.
- All work zones for projects that are contracted through ODOT. This includes projects
  off of the State Highway System.
- All work zones for projects delivered by ODOT work forces off the State Highway System

The Maintenance and Operations Branch will lead the development of practices and procedures for maintenance forces and permitted third party work zones. Technical Services will lead the development of practices and procedures for STIP work zones.

#### GUIDANCE

ADA Regulations, the MUTCD and the ODOT ADA Settlement Agreement require ODOT to assure that all work zones accommodate pedestrians, including people with disabilities through or around the work zone if they could traverse that highway section before the work zone was established.

Every work zone currently requires some level of Traffic Control Plan (TCP). Each TCP should be appropriately scaled to fit the complexity of the work and duration of the work zone. For example, on a more complex project, the TCP requirement could be met by

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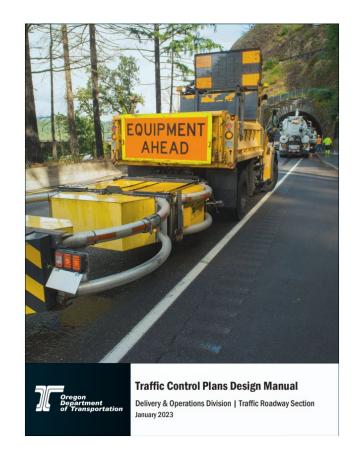
# TPAR – Design Resources(ODOT) ODOT TCP Design Manual

#### **PURPOSE**

The purpose of this manual is to provide an introduction to the standards, practices, devices and technologies that serve as the foundation for the temporary traffic control discipline. This manual provides an organized collection of traffic control plan design standards, guidelines, policies, and procedures to be used in the development of a temporary Traffic Control Plan (TCP).

Chapter 3.4.5 Pedestrian Accessibility Design

https://www.oregon.gov/odot/Engineering/Docs\_TrafficEng/TCP-Design-Manual.pdf





## **TPAR – Design Resources(ODOT)**

# Oregon Standard Specifications for Construction

#### **PURPOSE**

Standards for building highway construction projects, including TPAR.

Sections 00220 - 00228, TPAR Specifications

https://www.oregon.gov/odot/Business/Specs/2024\_STANDARD\_SPECIFICATIONS.pdf

Oregon Standard Specifications for Construction

2024

OREGON DEPARTMENT OF TRANSPORTATION 4040 FAIRVIEW INDUSTRIAL DRIVE SE SALEM, OREGON 97302-1142



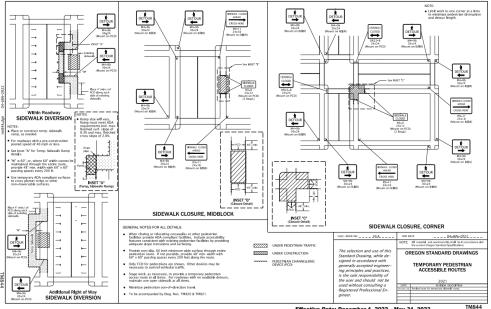
## TPAR – Design Resources(ODOT)

#### **ODOT Standard Drawings/Details**

#### **PURPOSE**

Provide Plans for common traffic control setups.

TPAR Related Standard Drawings/Details
Standard Drawings
TM800, TM844, TM851
Standard Details
DET4780 – DET 4787

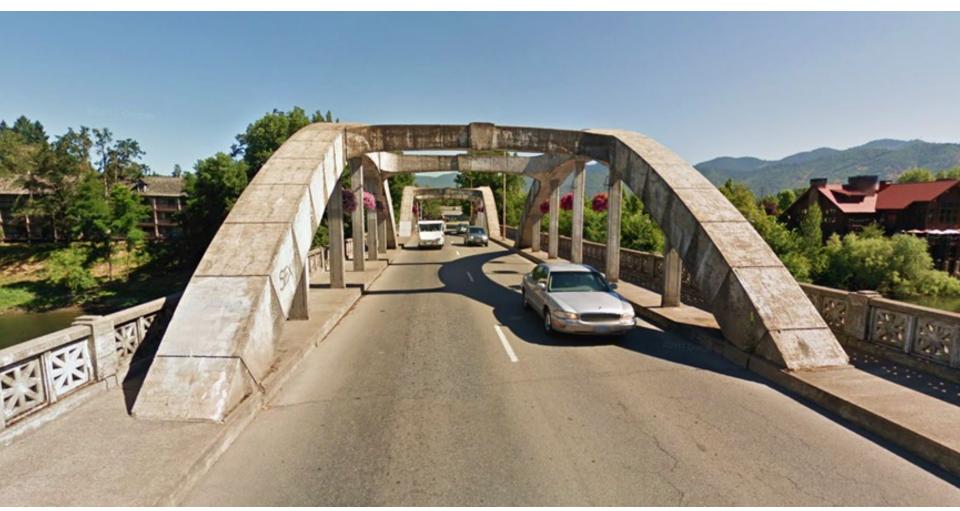


Effective Date: December 1, 2022 - May 31, 2023

https://www.oregon.gov/odot/engineering/pages/standards.aspx



## TPAR – Accommodation Challenges





## **TPAR – Accommodation Challenges**

**CHALLENGES: PAVING** 





# TPAR – Accommodation Challenges CHALLENGES: BRIDGES





# TPAR – Accommodation Challenges CHALLENGES: URBAN AREAS



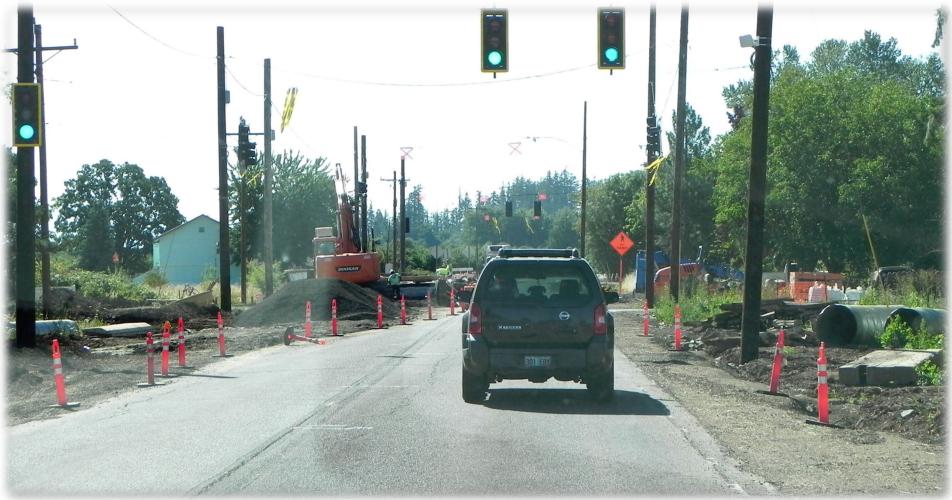


# TPAR – Accommodation Challenges CHALLENGES: URBAN AREAS





# TPAR – Accommodation Challenges CHALLENGES: SUBURBAN AREAS





# TPAR – Accommodation Challenges CHALLENGES: RURAL AREAS

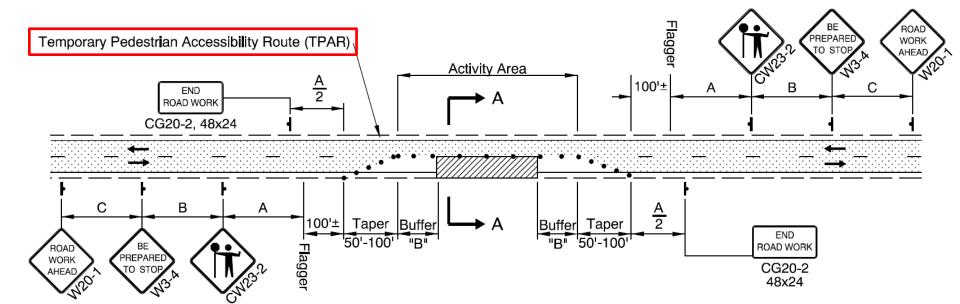






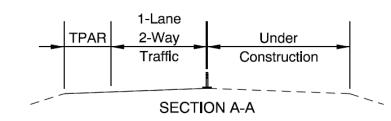


- "EQUAL TO" or "BETTER" Level of Accessibility
  - TPAR Detail added to TM850



#### NOTE:

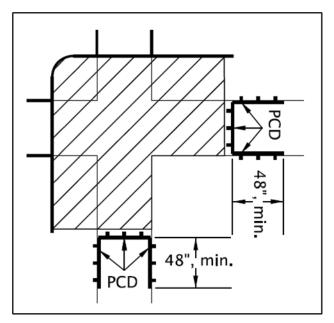
- When using pilot cars with flaggers to control traffic during paving operations, the Tubular Marker spacing along centerline may be increased to 200' within the Activity Area, as shown or as directed.
- Include CR4-23 signs mounted on Type II Barricade located approx. 50' before each Flagger.
- Coordinate and control pedestrians movements through the TPAR using Flaggers, other TCM, or as directed. When the existing shoulder is greater than or equal to 4' wide, provide a minimum of 4' of width for the TPAR.



2-LANE, 2-WAY ROADWAY ONE LANE CLOSURE



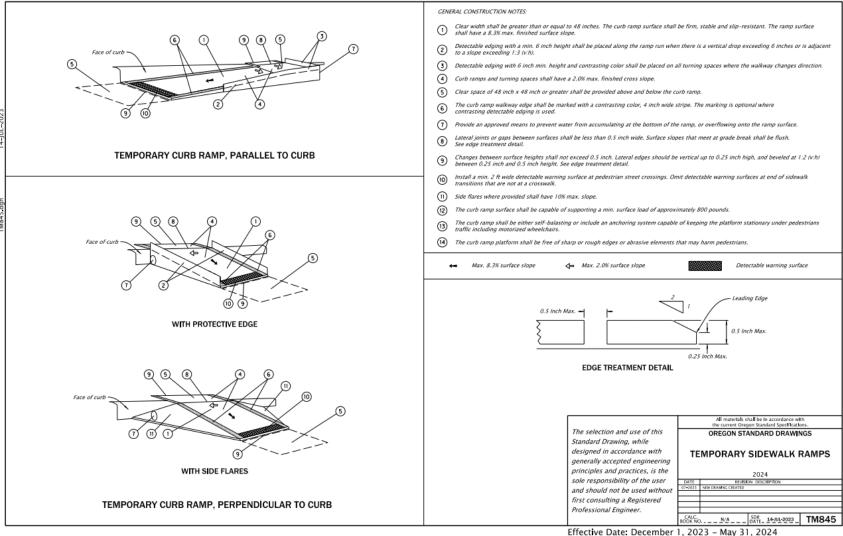
Sidewalk Closures and Signs mounted on PCD







#### Temporary Curb Ramps





#### Midblock Crossings

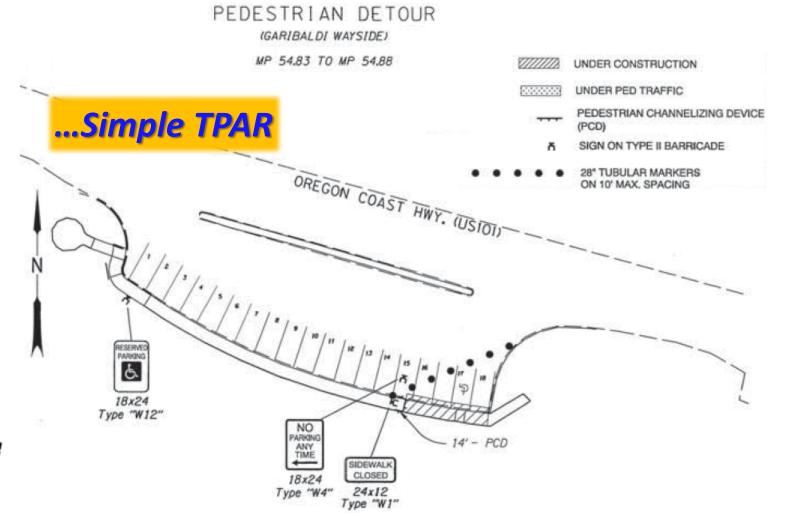






# TPAR – Accommodation Developments SCALABLE SOLUTIONS

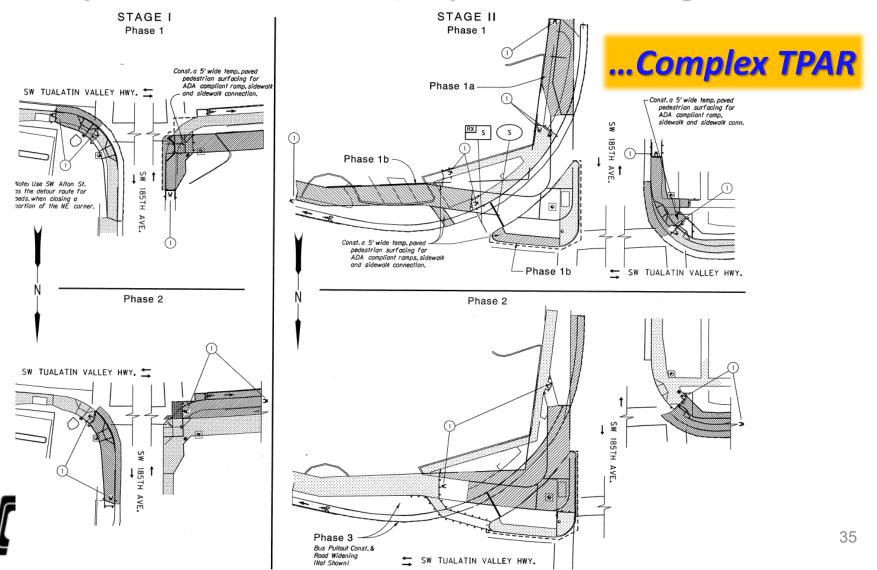
- Proportionate to Duration, Impacts and Existing Facilities
  - Larger Impacts ≈ Greater TPAR Detail, Complexity, Pay Item list





#### **SCALABLE SOLUTIONS**

Proportionate to Duration, Impacts and Existing Facilities

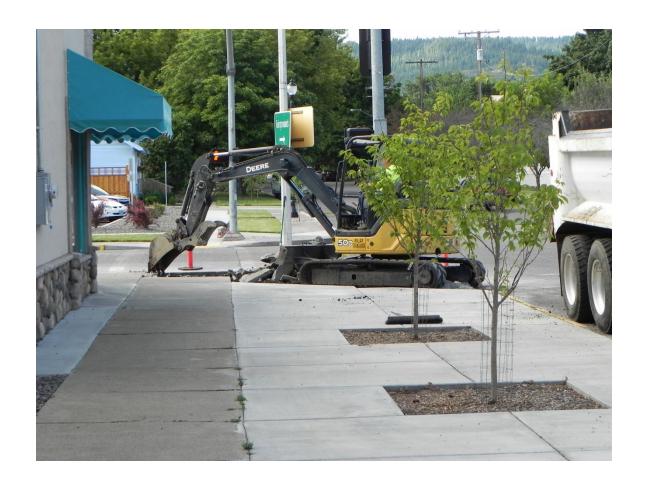


#### **SCALABLE SOLUTIONS**





• It IS Required!





• It HAS to work!





• It HAS to work, AT ALL TIMES





It HAS to be maintained





• It HAS to be Continuous





Caution Tape is not a approved device for TPAR





#### **TPAR** The Good

Surface Access Park





Path



Lot



Access



Signal



Detour





#### **TPAR** The Bad

Closure



Routes



Signs



Ramps



PCD



Maintain





Routes Surface



Continuous



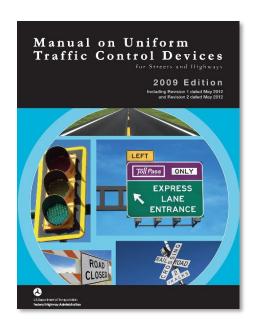


## **TPAR**Additional Information

https://www.oregon.gov/ODOT/Engineering/Pages/Accessibility.aspx https://www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx WorkZoneStandards@odot.state.or.us

Monthly TPAR Meeting, 3rd Tuesday of month, 1 PM, ODOT TLC









## **TPAR**Workday Oregon – TPAR Design class



Welcome to the Oregon Department of Transportation's (ODOT) Temporary Pedestrian Accessible Route Design course! This training provides Designers, Engineers or Technical Staff, members of City or County Public Works offices, Inspectors, and private Consultant Engineering Firms an introduction to the policy standards and deliverables that serve as the foundation for developing Temporary Pedestrian Accessible Route (TPAR) Plans for construction activities along Oregon's Highway System.

The lessons below are not intended to be fully comprehensive, but rather are designed to guide individuals who are working with ODOT to commonly referenced resources, materials, and standard practices to be utilized in the development of temporary pedestrian accessible route plans for use on Oregon's Highway System. Professionals conducting work outside of ODOT for other agencies should exercise caution in applying standards and practices within these lessons and resources as differences in design policy and standards may exist between ODOT and those established by other agencies.

Choose an activity below to get started!



#### **TPAR**

Comments / Questions / Discussion

