

# Penn State Transportation Engineering & Safety Conference

## December 6, 2018



### Planned Events Preparation for the Pennsylvania Turnpike

Mike Davidson, P.E.

Project Manager, Gannett Fleming

[mdavidson@gfnet.com](mailto:mdavidson@gfnet.com) | [mdavidson@paturndpike.com](mailto:mdavidson@paturndpike.com)

717-763-7211 x2037 | 717-562-420



***Gannett Fleming***

# Agenda

Transportation Management Plans

Special Events Playbook

Benefits



# **Transportation Management Plans**

# Background

Fiscal Year	Work Zone Total Crashes			Work Zone Fatal Crashes	
	Total	Injury	PDO	Total	Persons
FY 2014	214	70	141	3	3
FY 2015	267	100	162	5	5
FY 2016	327	103	220	4	4
FY 2017	283	86	197	0	0
FY 2018	173	50	122	1	1
<b>5-Yr Average</b>	<b>253</b>	<b>82</b>	<b>168</b>	<b>3</b>	<b>3</b>

- Fiscal year – June 1 through May 31

# Background

## Work Zone Safety Subcommittee

- Formed in February 2015
- Mission
  - Reduce work zone crashes and their severity
- Scope and Responsibility
  - Review and investigate work zone crashes
  - Quarterly reporting of data for individual work zones
  - Collaborate activities with partnering agencies
  - Formalized the Transportation Management Plan process



# Transportation Management Plan (TMP)

- Lays out the approach to managing the work zone impacts for a project
- Includes the following:
  - ★• Roles & responsibilities
  - ★• Stakeholder coordination requirements
    - Project background
  - ★• Work zone alternatives assessment
  - ★• Work zone impact management strategies
    - Strategies to monitor TMP performance
    - Contingency plans
    - Itemized costs

October 2015

I-476: A101-A104  
Transportation  
Management Plan (TMP)  
Pennsylvania Turnpike Commission

Northeast Region  
Project # \_XXXXX\_  
I-476: A104-A104  
Luzerne County

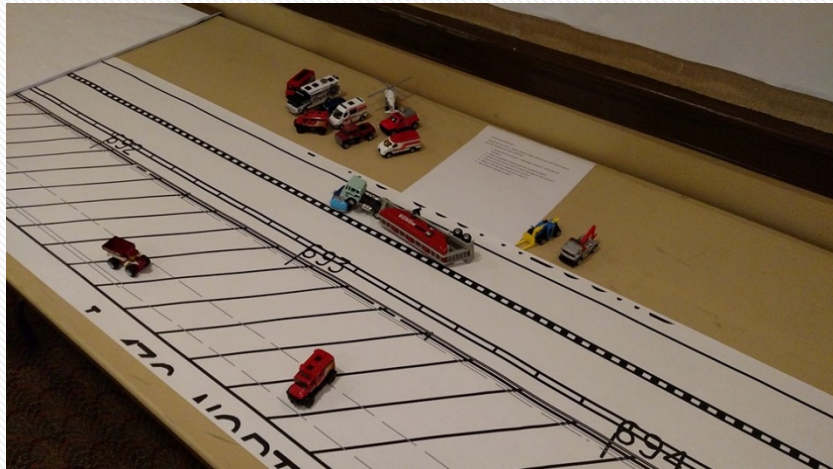
Prepared by: Gannett Fleming



# Roles, Responsibilities, and Stakeholder Coordination



- Each TMP should include a table of points of contact, their responsibilities, and contact info
- Tabletop exercise(s) should be conducted
  - Review incident scenarios and procedures
  - Identify additional mitigation strategies
  - Identify additional follow-up meetings and coordination efforts





# Roles, Responsibilities, and Stakeholder Coordination

- Coordinate with other key parties
  - Design team should work with other technical specialists, including construction, traffic engineering, and public outreach/relations personnel
  - Work with external agencies when detours are involved



Accelerated Bridge Construction (ABC) at A57.66



# Work Zone Alternatives Assessment

- Evaluate and select a design alternative that minimizes impacts
- Consider and address work zone impacts from a broader perspective
  - Balance constructability and construction staging requirements with work zone management strategies:
    - Temporary Traffic Control (TTC)
    - Transportation Operations (TO)
    - Public Information and Outreach (PI&O)

# Work Zone Impact Management Strategies

## Temporary Traffic Control (TTC)

- Construction strategies
- Traffic control devices
- Innovative contracting strategies



No Trucks Allowed in Right Lane for MP 202-206

# Work Zone Impact Management Strategies

## Transportation Operations (TO)

- Corridor management (traffic operations) strategies
- ITS strategies
- Incident management strategies
- Include a defined list of DMS to be used (including potential portable DMS), messaging, and activation / deactivation times for all.


PCMS	DIRECTION	PAGE 1	PAGE 2
53.3	NB	T U R N P I K E C L O S E D E X I T 5 6	F O L L O W D E T O U R
52.1	NB		
78.1	SB	T U R N P I K E C L O S E D E X I T 7 4	F O L L O W D E T O U R
79.4	SB		
97.5	SB	T U R N P I K E C L O S E D E X I T 7 4	D E T O U R A T E X I T 9 5
96.5	SB		

# Work Zone Impact Management Strategies

## Public Information and Outreach (PI&O)


- Public awareness strategies
- Motorist information strategies

55 MPH in Work Zone 24/7



### PA Turnpike/I-95 Interchange Now Open

[Watch Opening Ceremony video.](#)  
[Click to see what ramps are currently open and which ones will be completed in future stages.](#)



#### PA TURNPIKE/I-95 INTERCHANGE PROJECT

The Pennsylvania Turnpike/Interstate 95 Interchange Project now directly connects these two highways. One of the goals of this project is to reduce congestion on local Bucks County roadways as well as improve the flow of traffic in the Philadelphia region and along the entire east coast.

This website will inform the public with timely and accurate construction information to improve travel while using the Pennsylvania Turnpike and Interstate 95 in the Bucks County area.

Keeping the public informed of construction activities will enable safe and expeditious travel through the construction zones.

Construction continues on Stage 1 components, Section D20, and the Route 13 Connector. Construction is also ongoing for Section A1, which includes the replacement of the Bensalem (Exit 351) Interchange bridge and associated ramp realignment.

For additional information on this project, please click on the appropriate links in the menu at top.

#### PROJECT SUMMARY

The PA Turnpike/I-95 Interchange Project now directly connects the PA Turnpike and Interstate 95, thus making Interstate 95 continuous throughout the Mid-Atlantic Region.  
[View Project Staging Map here.](#)

#### PROJECT STATUS

Preliminary Design Phase Completed in 2008. Final Design and Construction activities for Stage 1 elements will proceed through 2020. The schedule of construction for Stage 2 and Stage 3 elements is largely dependent on funding.  
[Find out more about construction here.](#)

## Pennsylvania Turnpike closure between New Stanton and Breezewood scheduled this weekend

865  
Shares



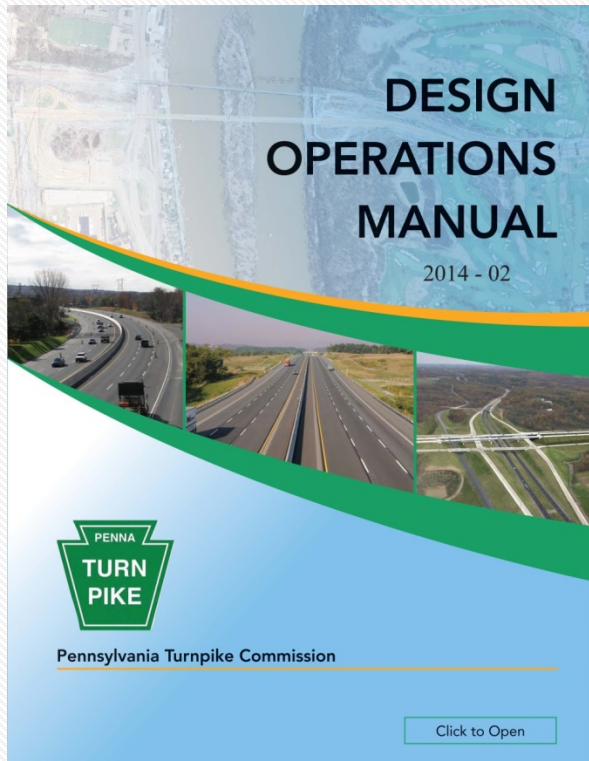
PITTSBURGH'S  
ACTION  
NEWS

Updated: 2:33 PM EST Nov 30, 2018

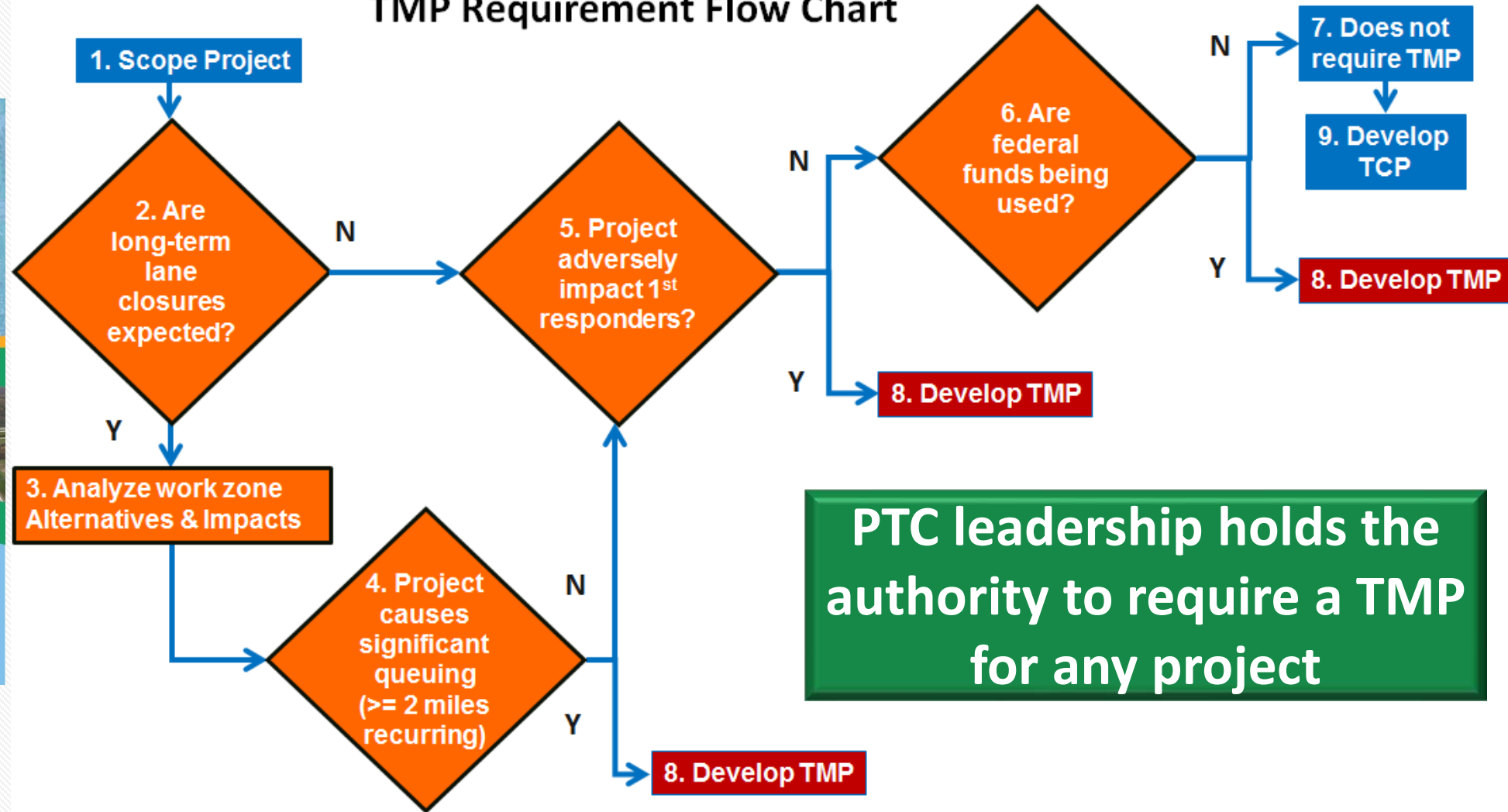




# PTC TMP Guidelines



### TMP Requirement Flow Chart



**PTC leadership holds the authority to require a TMP for any project**

# PTC TMP Guidelines

- TMP process shall begin prior to the project kick-off
  - Helps ensure costs are included in project budget
- TMP should be submitted/updated as necessary for the following design submittals at a minimum:
  - 60% design submittal
  - 90% design submittal
  - Final plans submittal



# **Special Events Playbook**

# Background

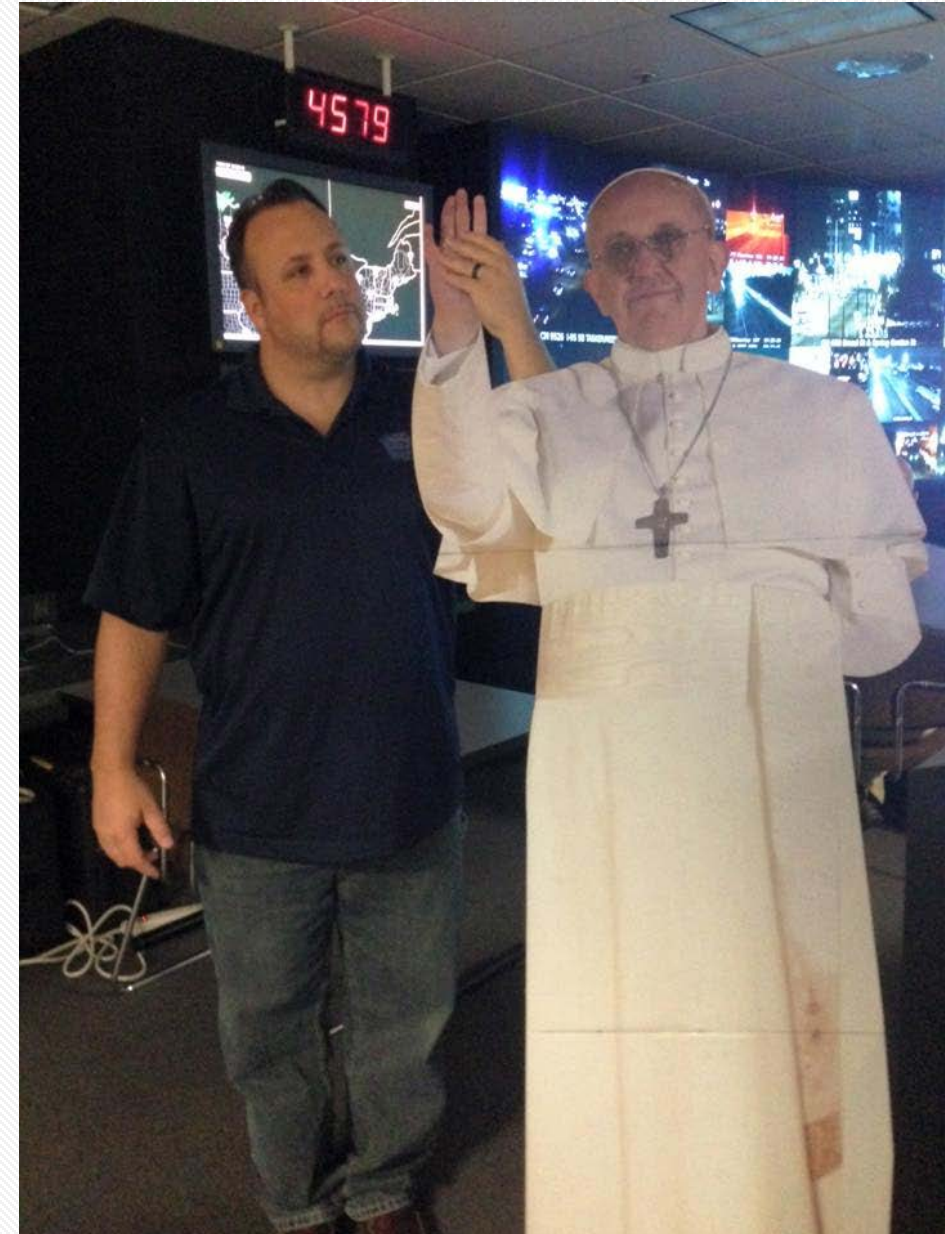
- Planned special events are public activities with a **scheduled time, location, and duration** that may **impact normal operation** of the surface transportation system due to **increased travel demand and/or reduced capacity** attributed to event staging.
- 5 phases for managing planned special events





# Background

- PTC has always prepared for recurring special events
  - Prohibit work zones
  - DMS messaging
  - Increased staffing
- Papal Visit in September 2015



# Special Events Playbook

- Provides a reference point and guidance when planning for special events that have potential to impact normal operation of the Turnpike
- Includes:
  - Checklist of considerations for each PTC department
  - Guidance on DMS messaging prior to, and during, the special event
  - Topics to review and discuss after the event
  - Planning sheets for recurring special events

# Turnpike Command Center

- For major special events the Turnpike Command Center (TCC) is activated
- Exercise command and control of the organization
- Coordinate information and resources and offers planning advice and logistical support





# Checklists

- Checklists for each department and PSP Troop T
- Can be tailored for events of various magnitudes



## FARE COLLECTION

### Staffing

- Create a staffing plan and on-call list for management, toll collection staff, and tellers working during the event.

### Toll Plazas

- Ensure the special event organizer creates flyers with directions to the event location that can be provided at toll plazas to be handed out to motorists.
- Create a toll lane operation plan for the event.
- Create a no ticket fee policy to be implemented during the event.
- Order additional change to have on hand during the event.
- Order ticket paper rolls.
- Leading up to the event, ensure emergency generator fuel tanks are topped off.

### Special Event Vehicles

- Determine fare schedules for vehicles entering and/or leaving the Turnpike using accesses other than the tolled interchanges.
- Ensure that event vehicles using the Turnpike have tags in the windshield so they are easily recognizable to toll collectors.
- If bus companies are used to shuttle event attendees, create a plan to manage E-ZPass accounts.
  - For example, for the 2016 Men's U.S. Open, a bus company was contracted to shuttle attendees from parking lots to Oakmont Country Club. The company was an E-ZPass customer, so the bus license plate numbers were removed from the general E-ZPass system and added to a special event account for the duration of the event. After the event, the license plate numbers were placed back in the normal E-ZPass account.



# Planning Sheets

## Nascar Event at Pocono Raceway

Timeframe	Summer
Estimated Attendance	100,000
Average Traffic Increase	5%
Special Event Planning Coordinator	TIM Coordinator
Organizer Contact Information	Solutions Events Services, Parking and Traffic Management <a href="mailto:jeffrey@solutionsevents.com">jeffrey@solutionsevents.com</a> 866-444-7275  Pocono Raceway Office 570-646-2300
Closest interchange (MP)	Route 903 (A87 EZ Pass Only) Pocono (A95)
West/South segment extent (MP)	Mid-County (A20)
East/North segment extent (MP)	Clarks Summit (A131)
Turnpike Command Center activated?	No
Agency Representation at the	

- One-stop shop for each special event
  - Estimated attendance
  - Average/Estimated traffic increase
  - Contact information
  - Turnpike extents
  - TCC activation
  - Work zone restrictions
  - DMS and HAR
  - Nearby access gates
  - Additional considerations



**Benefits**

# Benefits

- Document impact management strategies
- Improved traveler safety
- Improved responder safety
- Improved personnel safety
- Reduced traffic congestion
- Monitor performance
- Improve public awareness
- Improved intra- and interagency coordination
  - Resource utilization/sharing
- Analyze management strategy effectiveness
  - What worked? What didn't work?
- Incorporate new procedures, plans, and practices into day-to-day practices



*Gannett Fleming*

**Thank you!**

Mike Davidson, P.E.

Project Manager, Gannett Fleming

[mdavidson@gfnet.com](mailto:mdavidson@gfnet.com)

717-763-7211 x2037 | 717-562-4202