# **Processes to Improve Work Zone Progression**

99<sup>th</sup> Annual Purdue Road School
Pat McCarty
March 5, 2013



## **WORK ZONE PROGRESSION**

## **Interstate Work Zones**

- New Interstate Highway Congestion Policy
- Capacity Studies
- New Devices



## **I. Policy Section**

- Prohibits operations on an Interstate Route which:
  - **❖** Restrict lanes
  - **❖** Cause congestion
  - Except as noted within



## II. Purpose

Purpose is to comply with Federal Code

III. Administered by:

Administered and maintained by INDOT's Traffic Management Division

IV. Terms/Acronyms/Definitions

List of the Terms, Definitions and Acronyms used in the policy



## V. APPLICATION OF THE POLICY

- Contains ten parts which describe:
  - Who must follow the policy
  - When it applies and when it doesn't
  - **❖** Where it applies
  - How to seek an exception
  - What data collection is required



## **VI. Pre-Reporting Requirements**

- Any closures must be reported to the TMC
- The report is to include:
  - Closure information
  - **❖** Contact Information







# **VII. Policy Approval**

- Replaces all prior policies
- Grandfathers Existing Waivers
- Effective dates:

January 31, 2013 for INDOT Maintenance, permits... RFC date on or after April 1, 2013



## **Appendix A**

- Emergency Repairs
  - Suggested use
  - Reporting requirements
- Urgent Repairs
  - Suggested use
  - Queue development
  - Reporting requirements
  - Prevention of future urgent repairs





	Start	End			Length
Section	Exit	Exit	2009 Schedule		(mi)
I 465 to 116th St	0	5	Nighttime Only		5
116 <sup>th</sup> St to SR 38	5	19	Executive Approval		14
SR 38 to SR 18	10	64	Nighttime Only		45
SR 18 to •Anytime					22
US 224 to US 24 to SR 1 to 5					16
					14
					24
SR 4 to t • Nigl	ht-tir	me			

18



**Executive Approval** 

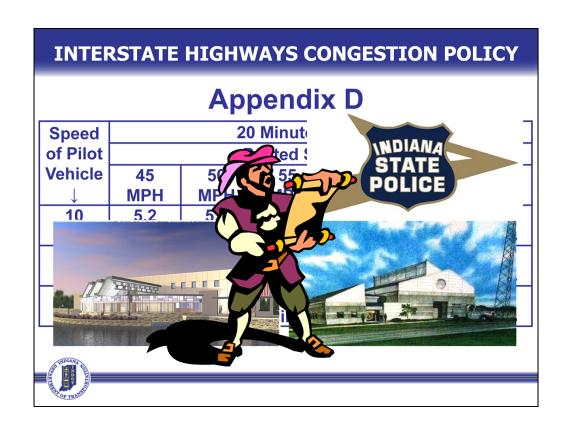
•Minimum 3 lanes / Direction

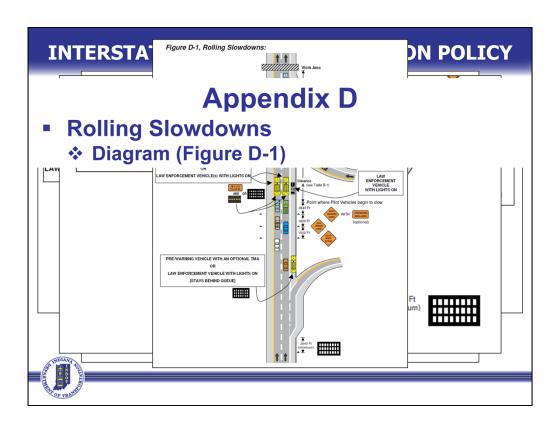


# **Appendix C**

- Policy Exceptions
  - Approval requirements
  - Who is responsible to seek an exception
  - What requires an exception
  - How to request one







INTERST	INDOT  WORK ZONE QUEUE & DELAY REPORT FORM  Contract No:	POLICY
• Queue	Route & Project Limits/Location:	g
Beginning of slowed/stopped to	Direction of Travel: impm Location of Queue (see note 2):  Queue Length: miles	tion
	Project Engineer/Supervisor Report Date  NOTES:  1. Occasion refers to the event (e.g. start of construction, phase change, location change) that is prompting the measurements.  2. Location of Queue refers to the location that the queue begins, for instance "the left lane merge taper for the crossover at station 123+50"  ce: District Traffic Engineer Work Zone Sadrey Section, Indianapolis TMC (fax to 317-898-0897) Project Flie	Closed Lane
	Form Date 02/2012	

## **CAPACITY STUDIES**

# **Work Zone Capacity**

## **Table C-2: Suggested Working Hour Capacities**

Mark Zana Tima	Lanes	Effective Lane Width		
Work Zone Type	Maintained	> or = 11'	10' to 10.5'	9' to 9.5'
Short Term	1 or more	1600	1450	1375
Long Term, traffic not crossed over	1	1750	1590	1510
Long Term, traffic crossed over	1	1550	1410	1330
Long Term, either traffic crossed or not crossed over	2 or more	1750	1590	1510

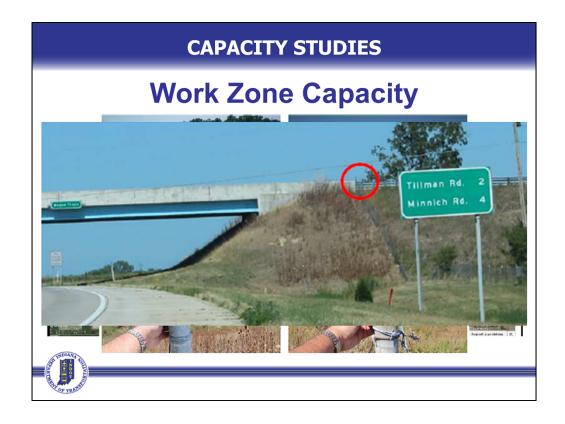


## **CAPACITY STUDIES**

# **Work Zone Capacity**

- Data Collection Project
- Purpose
- Methodology
- Sites selected

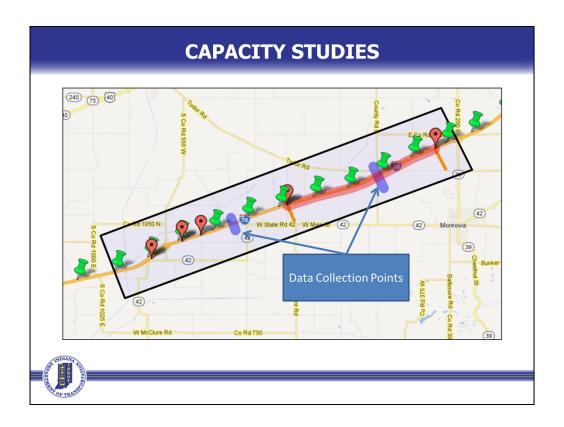




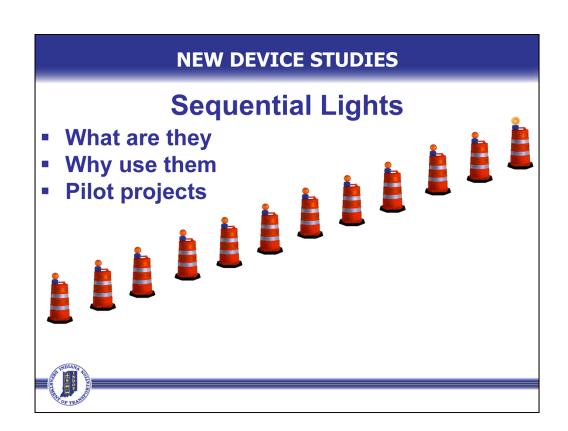
Double lane count at about 1.25 miles S. of arrow board. N. of ramp from Marion Center Road. About MP 14.

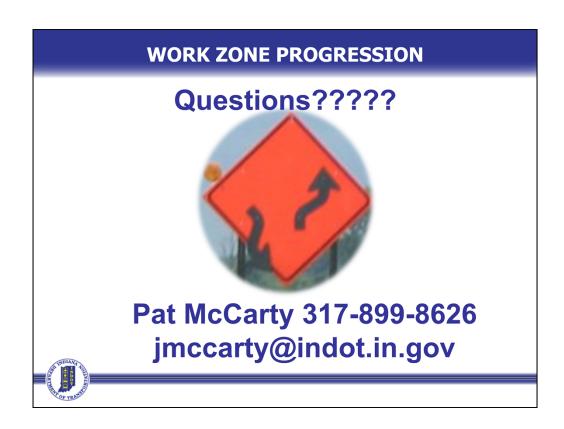
- Single lane count just past end of taper and before exit to Tillman Road About MP 15.4
- 4 time lapse cameras. 2 facing N. and 2 facing S. (for redundancy) mounted on fence posts on each side of

Wayne Trace at the top of the slope.



Map of approximate location of data collection points on I-70





Are there any questions?