

# **ILLINOIS SUPPLEMENT TO THE 2009 MUTCD**

**Kyle Armstrong, P.E., Engineering and Standards Unit Chief  
IDOT Bureau of Operations**

**Lawrence Gregg, P.E., Acting Engineer of Traffic Operations  
IDOT Bureau of Operations**



# DEVELOPMENT OF 2009 ILLINOIS MUTCD

- Final Rule for 2009 National MUTCD published in Federal Register December 16, 2009
- States have 2 years from this date to adopt MUTCD
- Illinois adopts MUTCD through a supplement which includes the National MUTCD along with revisions and additions



# PART 1 - GENERAL

- Guidance for Engineering Study and Engineering Judgment
- FHWA Interpretation: Oct. 1, 2010 Definition of Standard
- Definition of Paved

**A bituminous surface treatment, mixed bituminous concrete, or Portland cement concrete roadway surface that has both a structural (weight bearing) and a sealing purpose for the roadway. Oil and Chip treatments and Seal Coat treatments are not weight bearing surfaces by State of Illinois pavement design standards and shall not be considered paved surfaces.**



## PART 2 - SIGNS

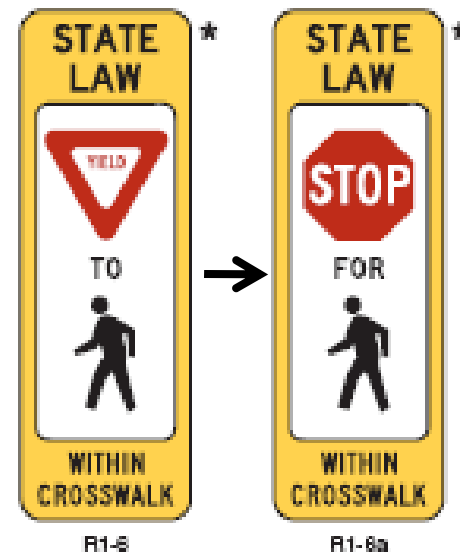
- In-Street Pedestrian Crossing Signs
- Red Light Photo Enforced Signs
- Park Zone Signs
- Non-Highway and Low-Speed Vehicle Signs
- Excessive Engine Braking Noise Signs



# PART 2 - SIGNS

## IN-STREET PEDESTRIAN CROSSING SIGNS

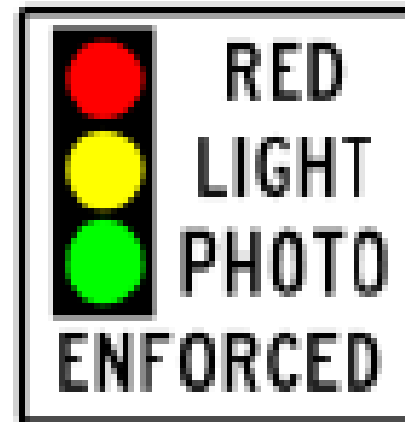
- Public Act 96-1165 signed July 22, 2010 requiring stopping for pedestrians in crosswalks
- Changed standards in Parts 2 and 7 from yielding to stopping.



## PART 2 - SIGNS

### RED LIGHT PHOTO ENFORCED SIGNS

- Signs shall be posted on all approaches of a red-light photo enforced intersection
- Signs shall be placed in advance and on the far side of intersection



# PART 2 - SIGNS

## PARK ZONE SIGNS

- IVC Section 5/11-605.3 allows local agencies to establish park zones and park zone speed limits along roadways which abut parks
- Park Zone speed limits cannot be established on roadways under the jurisdiction of IDOT
- Park Zone warning signs shall be placed in advance of a park zone speed reduction and may be placed in advance of other park zones



# PART 2 - SIGNS

## NON-HIGHWAY AND LOW-SPEED VEHICLES

- Regulatory signs (R5-I107)



Used to prohibit certain classes of non highway vehicles where they may normally be permitted

- Warning Signs (W11-11 , W11-I series)

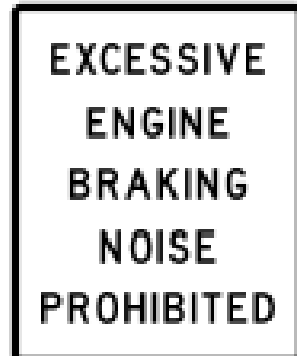
Used to warn of certain classes of vehicles that are allowed by State Law or local ordinance



## PART 2 - SIGNS

### EXCESSIVE ENGINE BRAKING NOISE SIGNS

- IVC Section 5/12-602.1 allows Counties and Municipalities to prohibit the use of engine braking systems within their jurisdiction
- Must furnish, install, and maintain the signs
- Must receive permit from IDOT before installing on State ROW
- A municipality or a county may request IDOT to install and maintain these signs on Interstate highways near weigh stations within ½ mile of residential areas or communities




# PART 4 – HIGHWAY TRAFFIC SIGNALS

- Right turns on red arrows
- Pedestrian Hybrid beacons
- Emergency Vehicle Hybrid beacons
- In-roadway lights for Crosswalks



# PART 4 – HIGHWAY TRAFFIC SIGNALS

## RIGHT TURNS ON RED ARROWS

- IVC 5/11-306 permits a right turn on red arrow after stopping under the same conditions as with a red circular indication. This conflicts with National MUTCD which prohibits turning after stopping on a red arrow unless specifically permitted by signs or other traffic control devices.
- NO TURN ON RED (R10-11a, R10-11b) word message signs shall be used where right red arrows are used. A rectangular sign with a black border and the text "NO TURN ON RED" in black, stacked vertically.
- Red circular indications rather than red arrows should be used where right turns are to be allowed.



# PART 4 – HIGHWAY TRAFFIC SIGNALS

## PEDESTRIAN HYBRID BEACONS

- Shall not be installed at locations where traffic signal warrants are met
- Shall be installed at least 100 ft. from sidestreets or driveways
- Shall be installed at least 300 ft. from other traffic signals or railroad grade crossings
- Illinois law requires traffic to stop at a dark signal located at an intersection



# PART 4 – HIGHWAY TRAFFIC SIGNALS

## EMERGENCY VEHICLE HYBRID BEACONS

- Shall not be installed at locations where traffic signal warrants are met.
- Shall be installed at least 100 ft. from sidestreets or driveways controlled by a stop sign.
- Shall be installed at least 300 ft. from other traffic signals or railroad grade crossings.



# PART 4 – HIGHWAY TRAFFIC SIGNALS

## IN-ROADWAY LIGHTS FOR CROSSWALKS

- Must use standard pedestrian crossing warning signs and standard crosswalk pavement markings.
- Must use a standard Flashing Yellow Warning Beacon with one pedestrian crossing warning sign for each direction. The beacon(s) shall be activated with the IRLs and flash at the same rate.
- A PUSH BUTTON TO TURN ON WARNING LIGHTS (R10-25) sign shall be mounted immediately above the pedestrian pushbutton unit.
- Should meet certain pedestrian and traffic volume levels.
- Warning signs may utilize flashing LEDs within the border of the sign that flash at the same rate and simultaneously with the IRLs.



## PART 7 – TRAFFIC CONTROL FOR SCHOOL AREAS

- Fines Higher and End School Zone signs
- Cell Phone use prohibited sign



## PART 7 – TRAFFIC CONTROL FOR SCHOOL AREAS

### **FINES HIGHER AND END SCHOOL ZONE SIGNS**

- National MUTCD requires specific signing where increased fines are imposed within a designated school zone.
- The FINES HIGHER (R2-6P) sign shall be used below the school speed limit sign.
- A Standard speed limit sign (R2-1) shall be used along with the END SCHOOL ZONE sign (S5-2) to mark the end of the school zone.



## PART 7 – TRAFFIC CONTROL FOR SCHOOL AREAS

### CELL PHONE USE PROHIBITED SIGNS

- A Cell Phone Use Prohibited sign (R2-I110) may be used beneath the reduced speed school zone ahead sign (S4-5, S4-5a) or installed separately in advance of a school speed zone.
- Must be furnished, installed and maintained by Local Agency or School.



## PART 8 – TRAFFIC CONTROL FOR RAILROAD AND LIGHT RAIL TRANSIT GRADE CROSSINGS

### GRADE CROSSING CAMERA ENFORCEMENT SIGNS

- Camera Photo Enforced Signs (R10-I105) shall be installed for all approaching traffic at railroad grade crossings equipped with enforcement systems

