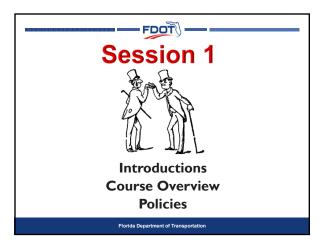
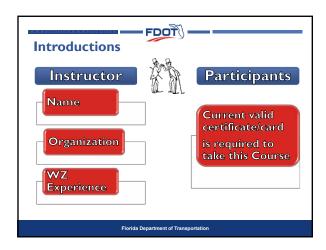




MOT & TTC

The FDOT considers the terms Maintenance of Traffic (MOT) and Temporary Traffic Control (TTC) synonymous. They may be used interchangeably in the field and through out the course of this presentation.

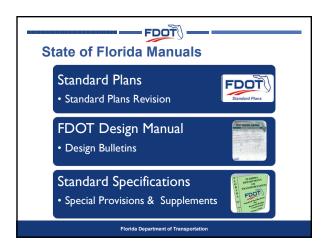


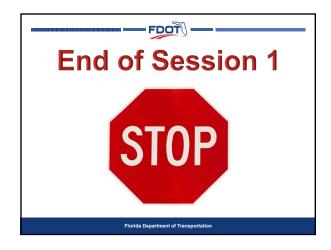




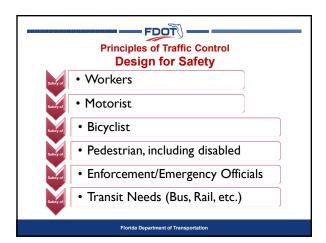


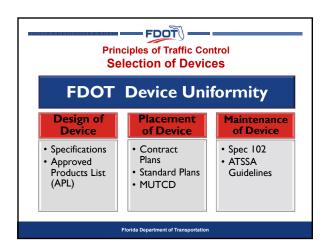


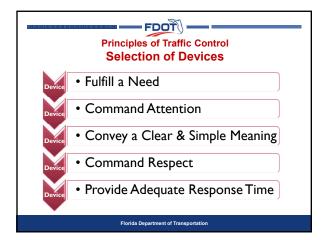












Principles of Traffic Control Design Considerations

Guide Traffic and Maintain Work Zone

Provide adequate warning, delineation, and channelization to assist in guiding road users

Remove or cover inappropriate devices or markings

Monitor work zones under varying conditions

Keep clear zone free of equipment and materials

Maintain good communication with public and agencies













Warning Signs Diamond is basic shape Temporary warning signs black legend and border on fluorescent orange background Must be at least 48 inches X 48 inches Permanent warning signs yellow background with black legend may remain in work zone if still applicable

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Regulatory Signs

 Generally rectangular with longer vertical dimension <u>black legend</u> and border on <u>white background</u> DO NOT PASS

- Impose legal obligations and/or restrictions on all traffic
- •STOP, YIELD, DO NOT ENTER, and WRONG WAY signs have white

legend on red background



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Guide Signs





long horizontal dimension

- Basic color white on green

 At work zones may be <u>black</u> on <u>orange</u> to indicate routing changes due to maintenance activity



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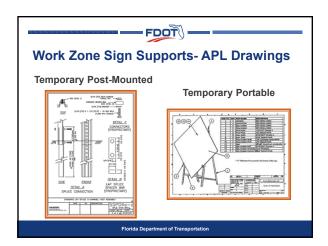
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Sign Placement

Sign supports must not be located on sidewalks, bicycle facilities, or areas designated for pedestrian or bicycle traffic.







— FDOT) —
Channelizing Devices
Cones, Drums
Tubular Markers
Longitudinal Channelizing Devices (LCD's)
Vertical Panels
Barricades , Types I & 2
Barricades, Direction Indicator
Barricades, Type 3
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Function of Channelizing Devices

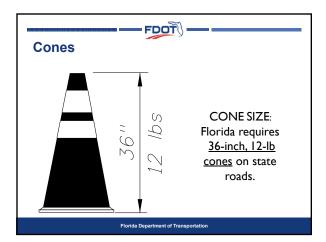
- Warn road users of conditions created by work activities in or near the roadway.
- Guide and direct drivers, bicyclists and pedestrians safely through the work zone.

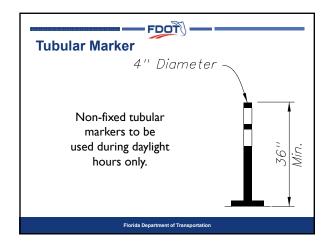
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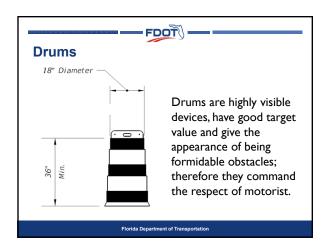
- FDOT

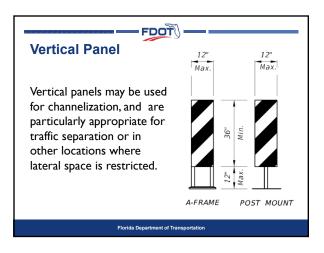
Temporary Warning Lights

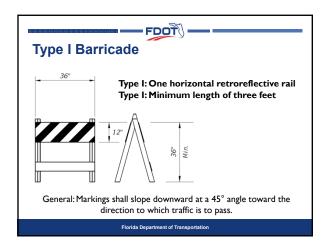
 All Temporary Warning Lights have been omitted beginning January 1st 2016.

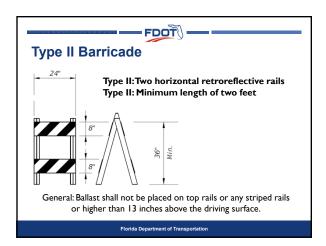


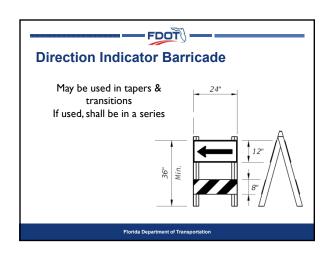


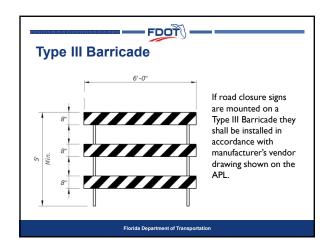


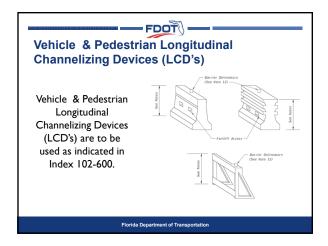


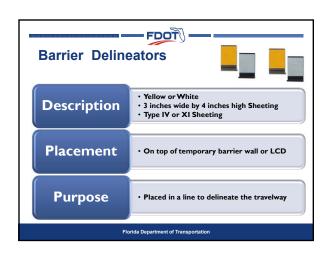






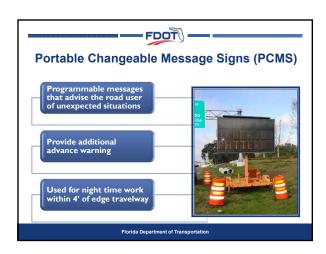














Portable Changeable Message Signs (PCMS)

Typical Uses:

- Speed is expected to drop substantially
- Queuing and delays expected
- Changes in alignment or surface condition
- Advance notice of closures (ramp, lane..)
- Changes in road user pattern

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-FDOT

Portable Changeable Message Signs (PCMS)

Message Design

- Message Panel
- 8 characters per line
- 3 lines per phase
- Each message shall consist of either 1 or 2 phases
- Each phase conveys a single thought
- Phase Layout
- Top line Present the problem
- Center Line Present the location of distance ahead
- Bottom line Present recommended driver action



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Radar Speed Display Unit

Used as part of the Motorist Awareness System

Driver Speed Display

Regulatory Speed Limit Sign

Your Speed Sign





Portable Regulatory Sign

Used as part of the Motorist Awareness System

Flashing Lights

Regulatory Speed Limit Sign

When Flashing Sign



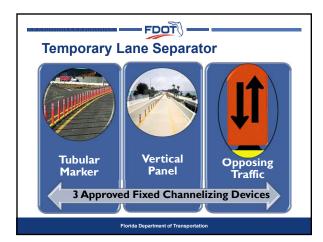
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Truck/Trailer Mounted Attenuators (TMA'S)



- Truck or Trailer Mounted
 - Listed on APL
- ■Indexes 102-607 & 102-619
- Mounted by Manufacturer's Recommendations

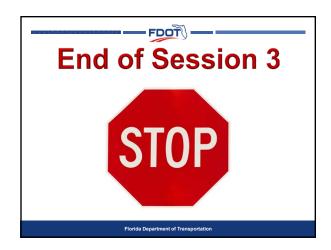


Painted Pavement Markings Centerlines, lane lines, edge lines, stop bars and turn arrows will be required in work zones prior to opening the road to traffic.

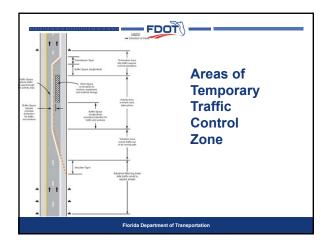
Registed Pavement Markers RPM's shall be installed as a supplement to: a) All lane lines. b) Edge lines in transition & approach areas. c) Edge lines of gore areas.



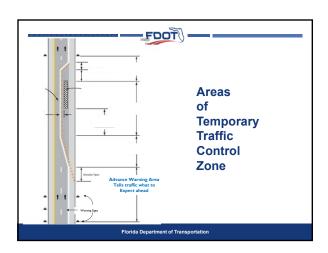








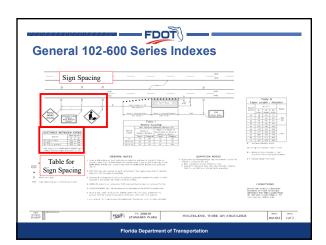
Advance Warning Area • First indication to motorists of unusual situation; alerts them work operations will occur short distance ahead • Signs properly positioned and spaced to give motorists adequate time to respond

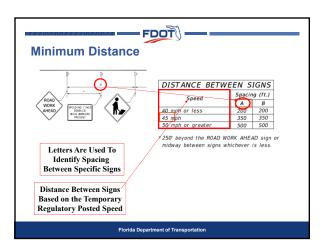


Warning Signs



- Placed where visible but not blocking view of existing signs
- ■Conform to 102-600 Series in Standard Plans
- Cover or move existing signs not applicable to work activity
- Use sign symbols for motorists not familiar with English language





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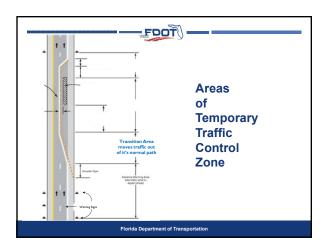
Transition Area

Direct motorist from one lane to another in a smooth and gradual transition with channelizing device

Use shadow vehicle during moving operations to warn and guide traffic in proper lane



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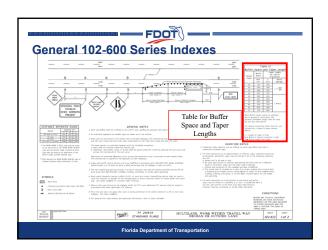
Taper

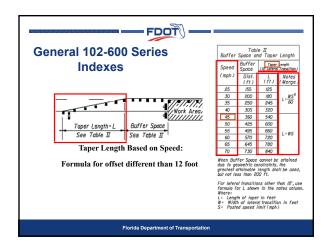


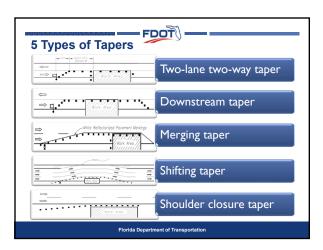
 Series of channelizing devices and/or pavement markings placed on angle to move traffic out of or into normal path

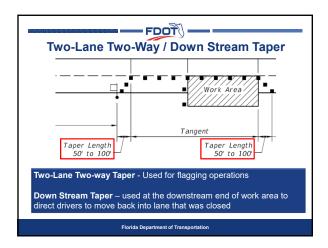


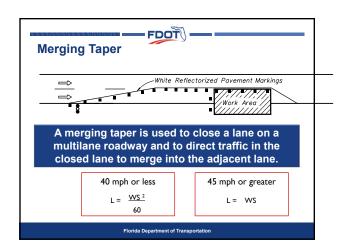
 Formula to calculate taper length found in taper table section of various Indexes in the Standard Plans, 102-600 Series.

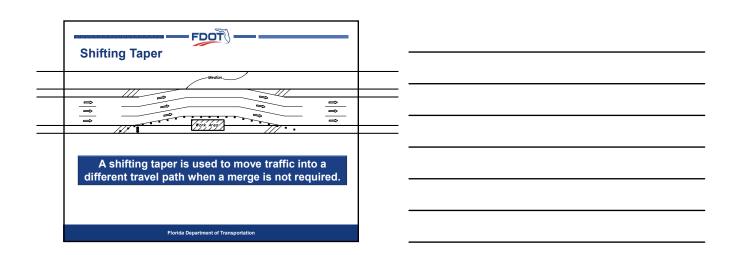


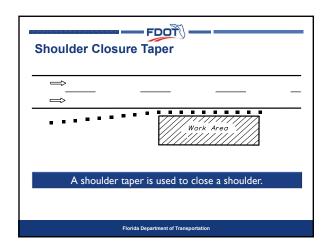


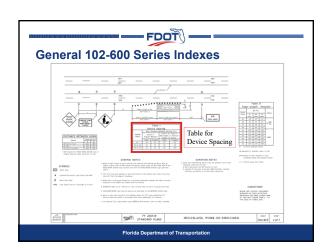


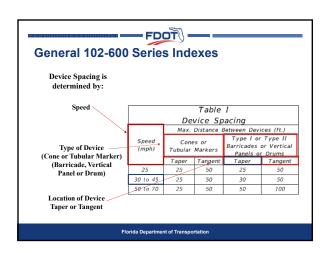












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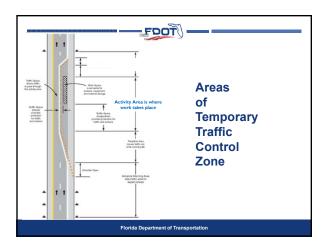
Activity Area

Section of highway where work activity takes place consists of:

- ■Buffer Space
- Longitudinal
- Lateral
- ■Work Space
- ■Traffic Space



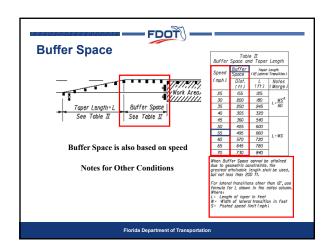
Elevide Department of Transportation



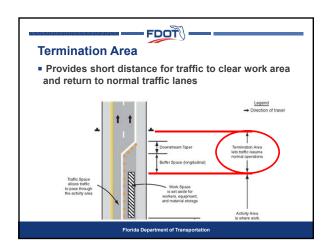
FDOT

Buffer Space

- Longitudinal Buffer Space
- Allow motorists extra space to regain control if they missed warning signs
- Provides room for motorist to stop before reaching work area
- Lateral Buffer Space
- Used to separate traffic space from the work space and provides protection for traffic and workers
- Keep buffer space free of equipment, workers, materials, and workers' vehicles













Safety Principles of TCZ Implementation

- Follow Standard Plans and MUTCD
- Minimize traffic conflicts
- Close and re-open lanes as soon as practical
- Speed reductions can only be made due to changes in design geometry or the use of Index 102-670



Safety Principles of TCZ Implementation

- ■Use effective traffic control devices
- Avoid traffic delays that could cause backups
- Avoid scheduling work during peak hours, weekends, and holidays
- Give high priority passage to emergency vehicles



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Safety Principles of TCZ Implementation

- Maintain access to emergency services, such as police, fire stations, fire hydrants, and hospitals
- Equip work vehicles with flashing lights
- Keep equipment in good condition, replacing or repairing as needed

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Clothing Requirements

- ANSI/ISEA 107-2004/107-2010 High-Visibility Safety Apparel:
 - Standard Class 2 for Day
 - Standard Class 3 for Night
- Required within Right-of Way
- Hard hat (recommended)



