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PRFFACE

All projects and works on highways, roads and streets shall have a traffic control plan. All work shall be executed under the established plan and Department approved procedures. This index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets.

Index 600 provides Department policy and standards, Changes are only to be made thru Department approved procedures, Indexes 601 thru 665 provide typical application for various situations. Modification can be made to these Indexes as long as the changes comply with the M.U.T.C.D. and Department standards

The sign spacings shown on the Indexes are typical (recommended) distances. These distances may be increased or decreased based on field conditions, in order to avoid conflicts or to improve site specific traffic controls.

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

The Florida Department of Transportation has adopted the "Manual On Uniform Traffic Control Devices For Streets And Highways" (MUTCD) and subsequent revisions and addendums, as published by the U.S. Department of Transportation, Federal Highway Administration. for mandatory use on the State Maintained Highway System whenever there exists the need for construction, maintenance operations or utility work.

ARRREVIATIONS

Abbreviations assigned to the 600 series Roadway Design Standards and applicable to traffic control plans, unless otherwise identified in the plans, are as follows:

TCP Traffic control plan(s)

MITCO 'Manual On Uniform Traffic Control Devices For Streets And Highways' TCZ Traffic control through work zones

Taper length, buffer length or taper length plus buffer space Width of taper transition in feet, i.e., lateral offset Posted speed or off-peak 85 percentile speed (moh.)

Raised reflectorized payement marker RPM TMA Truck mounted attenuator

Traffic Control Standards Committee Variable Message Sign

Designates Maintenance Of Traffic Signs Florida Dept. Of Transportation

District Traffic Operations Engineer Radius

сомм

VMS

MOT

FDOT

DTOF

SYMBOLS

The symbols shown are found in the Traffic Control Zone Cell Library (TCZ.cel) on the CADD system.

Symbols assigned to the 600 series Roadway Design Standards and applicable to traffic control plans, unless otherwise identified in the plans, are as follows:

Work Area, Hazard Or Work Phase (Any pattern within a boundary)

Sian With 18" x 18" (Min.) Orange Flag And Type B Light

■ Type T Or Type IT Barricade Or Vertical Panel Or Drum

Type T Or Type IT Barricade Or Vertical Panel Or Drum (With Flashing Light

Type I Or Type II Barricade Or Vertical Panel Or Drum (With Steady Burning Light At Night Only).

Type I Or Type II Barricade Or Vertical Panel Or Cone Or Tubular Marker Or Drum Cone Or Tubular Marker

Type I. Type II Or Type III Barricade Or Vertical Panel Or Drum

Type I, Type II Or Type III Barricade Or Vertical Panel Or Drum (With Flashing

Type I, Type II Or Type III Barricade Or Vertical Panel Or Drum (With Steady Burning (ight)

Type TT Barricade

Type III Barricade (With Flashing Light)

Type III Barricade (With Steady Burning Light)

₩ork Zone Sign

Traffic Signal

Advance Warning Arrow Panel

Portable Signal c.c. Crash Cushion

Stop Bar WW Work Vehicle With Flashing Beacon

Shadow (S) Or Advance Warning (AW) Vehicle
With Advance Warning Arrow Panel And Warning Sign

A Truck Mounted Attenuator (TMA)

◇ Orange Flag For TCZ Signs

√ Type B Light For TCZ Signs

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD DESIGN TRAFFIC CONTROL THROUGH WORK ZONES GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES

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DEFINITIONS

Regulatory Speed (In Work Zones)

The maximum permitted travel speed posted for the work zone as indicated by the regulatory speed limit signs. The work zone speed must be shown or noted in the plans. This speed should be used as the minimum design speed to determine runout lengths, departure rates, flare rates, lengths of need, clear widths, taper lengths, crash cushion requirements, marker spacings, superelevation and other similar features.

Advisory Speed

The maximum recommended travel speed through a curve or a hazardous area.

Travel Way

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The intended path for vehicular traffic through or around obstructions in construction, maintennee, utility and other work zones on highways, coats and streets. For traffic control through work zones, travel way includes auxiliary lanes, shoulders and any other permanent or temporary surface intended for the nath of vehicular traffic.

Detour

A detour is the redirection of traffic anto another roadway to bypass the temporary traffic control zone. A lane shift is the redirection of traffic onto a different section of the permanent prement. A diversion is the redirection of traffic onto a temporary roadway, usually adjacent to the permanent roadway and within the limits of the right of way.

Above Ground Hazard

An above ground hazard is any object, material or equipment other than traffic control devices that encroaches upon the travel way or that is located within the clear zone which does not meet the Departments safely criteria, i.e., anything that is greater than 4" in height and is firm and unyielding or doesn't meet breakowy requirements.

EXTENDED DISTANCE ADVANCE WARNING SIGNS

Advance Warning Signs shall be used at extended distance of one-half mile or more when limited sight distance or the nature of the obstruction may require a motorist to bring their vehicle to a stop. Extended distance Advanced Warning Signs may be required on any type roadway, but particularly be considered on multi-lane divided highways where vehicle speed is generally in the higher range (45 M.P.H. or more).

REGULATORY SPEEDS IN WORK ZONES

Traffic Control Plans (TCPs) for all projects must include specific regulatory speeds for each phase of work. This can either be the posted speed or a reduced speed. The speed shall be noted in the TCPs; this includes indicating the existing speed if no reduction is to be made. Regulatory speeds are to be uniformly established through each phase.

In general, the regulatory speed should be established to coute vehicles safely through the work zone as close to normal highway speed as possible. The regulatory speed should not be reduced more than 10 mph below the posted speed and never below the minimum statulary speed for the class of facility. When a speed reduction greater than 10 mph is imposed, the reduction is to be done in 10 mph per SO⁰ increments.

Temporary regulatory speed signs shall be removed as soon as the conditions requiring the reduced speed no longer exist. Once the work zone regulatory speed sare removed, the regulatory speed existing prior to construction will automatically go back into effect unless new speed limit signing is provided for in the plans.

On projects with interspaced work activities, speed reductions should be located in proximity to those activities which merit a reduced speed, and not "blanketed" for the entire project. At the departure of such activities, the normal highway speed should be posted to alve the motorist notice that normal speed can be resumed.

If the existing regulatory speed is to be used, consideration should be given to supplementing the existing signs when the igns. For projects where the reduced speed conditions exist for greater than I mile in rural areas I non-interstate I and on rural or urban mane than I mile in rural areas I non-interstate I and on rural or urban more than I mile intervals. Engineering judgment should be used in placement of the additional signs. Locating these signs beyond ramp entrances and beyond major intersections are examples of placement. For urban situations (non-interstate I), additional speed signs are to be placed at a maximum of 1000 apart.

When field conditions warrant speed reductions different from those shown in the TCP the contractor may submit to the project engineer for approval by the Department, a signed and sealed study to justify the need for further reducing the posted speed, or, the engineer may request the District Traffic Operations Engineer (DTOE) to investigate the need, it will not be necessary for the TDCE to issue regulations for regulatory speeds in work zones due to the revised provisions of F.S. 350/45 21 (b). Advisory Speed plates will be used at the aprilion of the field engineer for temporary use while processing an extended of the construction warning sign for which the advisory speed by the common to used of one but must be placed below the construction warning sign for which the advisory speed is required.

For additional information refer to the FDOT Roadway Plans Preparation Manual, Volume I , Chapter 10.

ADJOINING AND/OR OVERLAPPING WORK ZONE SIGNING

Adjoining work zones may not have sufficient spacing for standard placement of signs and other traffic control devices in their advance warning areas or in some cases other areas within their traffic control zones. Where such restraints or conflicts occur or are likely to occur, one of the following methods will be employed to avoid conflicts not prevent conditions that could lead to misunderstanding on the part of the traveling public as to the intended travel way by the traffic control procedure.

- (a) For scheduled projects the engineer in responsible charge of project design will resolve anticipated work zone conflicts during the development of the project traffic control plan. This may entail revision of plans on preceding projects and coordination of plans on concurrent projects.
- (b) Unanticipated conflicts arising between adjoining in progress highway construction projects will be resolved by the Resident Engineer for projects under his residency, and, by the District Construction Engineer for in progress projects under adjoining residencies.
- (c) The District Maintenance Engineer will resolve anticipated and occurring conflicts under the following work zone conditions.
 - I. Within scheduled maintenance operations.
 - Between scheduled maintenance operations, maintenance construction, permitted works and/or in progress highway construction projects.
- (d) The Unit Maintenance Engineer will resolve conflicts that occur within routine maintenance works; between routine maintenance work, unscheduled work and/or permitted work; and, between unit controlled maintenance works and highway construction projects.

INTERSECTING ROAD SIGNING

Signing for the control of traffic entering and leaving work zanes by way of intersecting highways, roads and streets shall be adequate to make drivers aware of work zane conditions. Under no condition will intersecting leg signing be less than a ROAD WORK AHEAD sign, including light and flag, for approaching vehicles.

SIGNALS

Existing traffic signal operations that require modification in order to carry out work zone traffic control shall be included in the TCP and be approved by the District Traffic Operations Engineer. The need for temporary signal loops or other methods of actuation shall be determined by the District Traffic Operations Engineer. And the designer and included in the TCP.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD DESIGN						
TRAFFIC CONTROL THROUGH WORK ZONES						
GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES						
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CHANNELIZING AND LIGHTING DEVICES

Channelizing and lighting devices for work zone traffic control shall be as prescribed in Part VI of the MUTCD, subject to supplemental revisions provided in the contract documents.

Primary work zone traffic control devices are shown on Sheet 8 for the purpose of ready identification. Approved devices are listed on the Departments Qualified Product List.

DROPOFFS IN WORK ZONES

Acceptable warning and barrier devices for traffic control at dropoffs in work areas are detailed on Sheet 6. Unless otherwise specified in the plans, the controctor may use any of the barrier types shown in note 3 on sheet 6.

WARNING LIGHTS

Warning lights shall be in accordance with Section 6E-5 of the MUTCD except for the application limitations and methods of payment stipulated below:

Flashina

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Type A Low Intensity Flashing Warning Lights are to be mounted on borricades, drums, vertical panels or odvance warning signs (except) as noted below) and are intended to continually warn drivers that they are approaching or proceeding in a hazardous area, Flashing lights shall not be used to delineate the intended path of travel, and not placed with spacings that will form a continuous line to the drivers eye. The Type A light will be used to mark obstructions that are located adjacent to or in the intended travel way. Type A lights shall not be used in conjunction with the first advance warning sign nor the second such sign when uses.

Type B High Intensity Flashing Warning Lights shall be mounted on the first advanced warning sign and on the first and second advanced warning sign where two or more signs are used; this applies to all approaches to any work zone.

Steady-Burn

Type C. Steady-Burn Lights are to be mounted on borricades, drums, concrete barrier walls or vertical panels and used in combination with those devices to delineate the travel way on lane closures, lane changes, detour curves and other similar conditions. Steady-burn lights are intended to be placed in a line to delineate the traveled way through and around obstructions in the transition, buffer, work and termination areas of the traffic control zone. Their intended purpose is just for harding areas that they are approaching or proceeding through a hardingly area that they are approaching or proceeding through a

SIGHT DISTANCE TO DELINEATION DEVICES

Transition tapers should be obvious to drivers. If restricted sight distance is a problem (e.g., a sharp vertical or horizontal curve), the taper should begin well in advance of the view obstruction. The beginning of tapers should not be hidden behind curves.

CHANNELIZING AND LIGHTING DEVICE CONSISTENCY

Barricades, vertical panels, cones, tubular markers and drums shall not be intermixed within either the lateral transition or within the tangent alignment.

FLAGGING OPERATIONS

When operations are such that signs, signals and barricades do not provide adequate protection on or adjacent to a highway or street, flaggers and / or other appropriate traffic control shall be provided. Flagger station (s) shall be located far enough ahead of the work space so that approaching traffic has sufficient distance to stop before entering the work space.

Stop /Slow Paddles are the primary hand-signaling device. Flag use is limited to Immediate Emergencies, Intersections, and when working on

Stop /Slow Paddles are the primary hand-signaling device. Flog use is limited to immediate Emergencies, Interesections, and when working centerline or shared left turn lanes where two (2) flagmen are required and there is opposing traffic in the adjacent traffic lanes. Where Flagmen are used, a FLAGMAM symbol or legend sign must replace the WORKER's symbol or legend sign.

NIGHTTIME FLAGGING

Nightime flagging will require proper illumination of the flagger, A well lighted flagging station and/or a reflectorized poddle or reflectorized flag, plus a flashlight, lantern or other lighted signal that will display a red warning light shall be used. Lights, reflectorized poddless, reflectorized flags and reflectorized vests, shirts or jackets approved by the Department must be used to flag traffic at night. The STOP face of poddles shall be reflectorized red with white reflectorized letters and border, and the SLOW face shall be reflectorized ange with block letters and border. Flagger vests, shirts or jackets shall be reflectorized organe.

The flagger must be clearly visible to approaching traffic for a distance sufficient to permit proper response by the motorist to the flagging instructions, and to permit traffic to reduce speed or to stop as required before entering the work site. Flaggers shall be positioned to maintain maximum color contrast between the flaggers reflective garments and equipment and the work area background.

REMOVING PAVEMENT MARKINGS

Existing povement markings that conflict with temporary work zone delineation shall be removed by any method approved by the Engineer, where operations exceed one daylight period; however, painting over existing powement markings will not be permitted. Full powement width overlays of either asphalt concrete SP 9.5 or FC-6 is a positive means to achieve obliteration.

SUPERELEVATION

Horizontal curves constructed in conjunction with work zone traffic control should have the required superelevation applied to the design radii. Under conditions where normal cross slope controls curvature, the minimum radii that can be applied are listed in the table below.

	RADII FOR
NORMAL CR	OSS SLOPES
DETOUR	MINIMUM
DESIGN	RADIUS
SPEED	R
мРН	feet
65	3/30
60	2400
55	/840
50	/390
45	1080
40	820
35	60
30	430
Superelevate When	Smaller Radii Used

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TRAFFIC CONTROL THROUGH WORK ZONES
GENERAL INFORMATION FOR
TRAFFIC CONTROL THROUGH WORK ZONES

END ROAD WORK SIGNS

The END ROAD WORK sign (620-2A) should be erected approximately 500 feet beyond the end of a construction or maintenance project, unless other distance called for in the plans. Where other Construction or Maintenance Operations occur within I mile this sign should be amitted and signing coordinated in accordance with Index No. 600, ADJOINING ANJORO OVERLAPPING WORK ZOME SIGNING.

DETOURS

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Detours should be signed clearly over their entire length so that motorists can easily determine how to return to the original roadway. The WI-4R, MOT-2, and MOT-3 warning signs are to be used for the advanced warning for a lane shift. A diversion should be singed as a lane shift.

VARIABLE MESSAGE SIGNS (VMS)

- The VMS can be used to:
 (1) Supplement standard signing in construction/maintenance work zones.
 (2) Reinforce static advance warning messages.
- (3) Provide motorists with updated auidance information.

The message should be visible and legible at a minimum distance of 900 feet. All messages should be cycled so that two message cycles are displayed to a driver while approaching the sign from 900 feet at 55 mph.

VMS should be placed approx. 500 to 800 feet in advance of the work zone conflicts or 1.5 to 2 miles in advance of complex traffic control schemes which require new and/or unusual traffic maneuvers.

If VMS are to be used at night, the intensity of the flashers shall be reduced during darkness when lower intensities are desirable.

For additional information refer to the FDOT Roadway Plans Preparation Manual, Volume I , Chapter IO.

ROADSIDE BARRIERS

When connecting temporary concrete barrier wall to guardrail the connection shall be made in accordance with Index No. 4lO. All guardrail end anchorages to be included in the cost of Temporary Guardrail.

ABOVE GROUND HAZARD

Above ground hazards (see definitions) are to be considered work areas during working hours and treated with appropriate work zone traffic control procedures. During non-working hours, all objects, materials and equipment that constitute on above ground hazard must be stored/placed outside the travel way and clear zone or be shielded by a barrier or crash cushino.

For above ground hazards within a work zone the clear zone required should be based on the regulatory speed posted during construction.

WORK ZONE SIGN SUPPORTS

All post mounted Work Zone signs shall be installed on either round aluminum or steel channel post as specified in the table below.

SUPPORTS FOR MAINTENANCE OF TRAFFIC SIGNS					
SIGN SIZE	SIGN BRACKET	ROUND ALUMINUM	DEPTH IN GROUND	STEEL CHANNEL	DEPTH IN GROUND
24" x 36"	2-I	NPS 2.0" x & "	2'-0"	2.5 lb F/M*	3'-0"
48" x 48" DIAMOND	2-I& I-II	NPS 3.5" x 3"	3'-4"	**	3'-0"
60" x 48"	3-I	NPS 3.5" x 3"	3'-4"	**	3'-0"
24" x 30"	2-I	NPS 2.0" x 1/8"	2'-0"	2.5 lb F/M*	3'-0"
48" x 48"	2-Ⅲ	NPS 3.0" x #"	2'-6"	**	3'-0"
60" x 24"	3-I	NPS 3.0" x 1/8"	2'-6"	3.0 lb F/M*	3'-0"
60" x 36"	3-I	NPS 3.5" x 3"	3'-4"	4.0 lb F/M*	3'-0"

* F/M Indicates Type F or Type M

** Requires two 3 lb/ft steel channel (F/M) at 2'-6" center to center, All sign brackets shall be Type I. The total number of brackets shall be per post as tabulated, except the "Diamond" sign which shall use two Type I brackets per past.

The 4 lb/ft steel channel shall be installed with approved breakaway bases.

Refer to Design Standard II860, Sheet 3, for round aluminum sign bracket details, and II865 Sheet 2 for steel channel breakaway bases, and notes.

CLEAR ZONE WIDTHS

The term 'clear zone' describes the unobstructed relatively flat area, impacted by construction, extending outward from the edge of the travel lane. The lable below gives clear zone widths in work zones for medians and roadside conditions other than for roadside canals; where roadside conditions other than for roadside canals; where roadside conals are present, clear zone widths are to conform with the distances to conals as described in Volume I Ch. 4, Sec. 4.2 and Exhibit 4+A and 4-B of the Plans Preparation Manual.

CLEAR ZONE WIDTH	S FOR WORK ZONES
WORK ZONE SPEED (MPH)	WIDTHS (feet)
60 - 70	30
55	24
45 - 50	18
30 - 40	14
ALL SPEEDS CURB & GUTTER	4' BEHIND FACE OF CURB

SIGN MATERIALS

Mesh signs may be used only for Daylight Operations as noted in the standards. Type B Lights and Orange Flaas are not required.

Vinyl signs may be used for Day or Night Operations not to exceed I2 hours except as noted in the standards. Type B Lights and Orange Flags are not required.

All signs shall be post mounted if operation exceeds 12 hours except as noted in the standards.

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SURVEY WORK ZONES

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The SURVEY CREW AHEAD symbol or legend sign shall be the principal Advance Warning Sign used for Traffic Control Through Survey Work Zones and may replace the ROAD WORK AHEAD sign when lane closures occur, at the discretion of the Party Chiler. Type B Light or dual orange flags shall be used at all times to enhance the SURVEY CREW AHEAD sign, even with meth signs.

When Traffic Control Through Work Zones is being used for Survey purposes only, the END ROAD WORK sign as called for an certain 600 Series Indexes should be amitted.

Survey Between Active Traffic Lanes or Shared Left Turn Lanes

The following provisions apply to Main Roadway Traffic Control Work Zones. These provisions must be adjusted by the Party Chief to fit roadway and traffic conditions when the Survey Work Zone includes Intersections.

- (A) A STAY IN YOUR LANE (MOT-I) sign shall be added to the Advance Warning Sign sequence as the second most immediate sign from the work grea.
- (B) Elevation Surveys-Cones may be used at the discretion of the Party Chief to protect prism holder and flagger(s). Cones, if used, may be placed at up to 50' intervals along the break line throughout the work zone.
- (C) Harizontal Control-With traffic flow in the same direction, cones shall be used to protect the backsight tripod and/or instrument. Cones shall be placed at the equipment, and up to 50' intervals for at least 200' towards the flow of traffic.
- (D) Horizontal Control-With traffic flow in apposite directions, cones shall be used to protect the backsight tripped and/or instrument. Cones shall be placed at the equipment, and up to 50' intervals for at least 200' in both directions towards the flow of traffic.

PEDESTRIANS AND BICYCLIST

When an existing pedestrian way or bicycle way is located within a traffic control work zone, accomposition must be maintained and include provision for the disabled.

RAILROADS

Railroad crossings affected by a construction project should be evaluated for traffic controls to reduce queuing on the tracks. The evaluation should include as a minimum: traffic volumes, distance from the tracks to the intersections, lane closure or taper locations, signal timing, etc.

SIGN COVERING AND INTERMITTENT WORK STOPPAGE SIGNING

Existing signs that conflict with temporary work zone signing shall be removed or covered as approved by the Engineer. Traffic control signs that require covers when no work is being performed in a work area shall be fully covered with a durable oppoque sheet material.

Plastic film and woven fabrics including burlap will not be permitted.

Covering of only the legend or symbol will not be permitted.

Reflective coverings will not be permitted.

Hinged signs designed to cover when folded and sign blanks will be permitted.
Covers, blanks, hinged panels and intermittent work stoppage shields and
plaques are incidental to work operation signs and are not to be paid for separately.

LANE WIDTHS

Lane widths of through roodways should be maintained through work zone travel ways wherever practical. The minimum widths for work zone travel lanes shall be as follows: ID' for interstate with at least one i2'-0' lane provided in each direction, unless formally excepted by the Federal Highway Administration. O' for freeways and 9' for all other facilities.

LENGTH OF ROAD WORK SIGN

The length of road work sign (G20-I) bearing the legend ROAD WORK NEXT._____MILES is required for all projects of more than 2 miles in length. The number of miles entered should be rounded up to the nearest mile. The sign shall be located at begin construction points.

MANHOLES/CROSSWALKS

Manholes extending I" or more above the travel lane and crosswalks having an uneven surface greater than ½" shall have a temporary asphalt apron constructed as shown in the diagram below.



The agron is to be removed prior to constructing the next lift of asphalt The cost of the temporary asphalt shall be included in the Contract Unit Price for Maintenance of Traffic, L.S.

TRUCK MOUNTED ATTENUATORS

Truck-mounted attenuators (TMA) can be used for moving operations and short-term stationary operations. For moving operations, see Index No. 627. For short term, stationary operations, see Part VI of the MUTCD.

SPEEDING FINES DOUBLED WHEN WORKERS PRESENT SIGN

The SPEEDING FINES DOUBLED WHEN WORKERS PRESENT sign should be installed on all projects.

The placement should be 500 ft beyond the ROAD WORK AHEAD sign or midway to the next sign whichever is less.

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