

Board of Lapeer County Road Commissioners

WORK ZONE SIGNING POLICY

May, 2005

Introduction

Temporary Signing is a very important and mandatory part of any roadwork that is to be completed within the Lapeer County Road Commission Right-of-Way.

The following information is provided to the public so that anyone working within the road right-of-way shall be in conformance with the County's *Work Zone Signing Policy* contained herein.

Duration of Work

Long Term:	Work that continuously occupies a location for 4 Days or more
Intermediate-Term:	Occupies a location from 1 to 3 Days
Short-Term:	Daytime work only occupying a location for 1-12 hours
Short-Duration:	Work that occupies a location up to 1 hour
Mobile Operations:	Work that moves intermittently or continuously (LCRC Crews & LCRC Contractors Only)

General Signing Guidelines

Work Zone Traffic Control Devices (including but not limited to temporary signs, cones, drums, arrow board panels) must be crashworthy and in compliance with (NHRP), Report 350. Sheeting shall conform to engineer grade reflective sheeting and must meet the requirements for ASTM D 4956 Type I engineer grade sheeting, as per section 922.02B of the 2003 M.D.O.T. Standard Specifications for Construction.

Signs shall be placed at a 5 foot bottom height, and 6 to 12 feet off the edge of the traveled lane or no closer than two feet from the back of curb. Sign size and lettering shall be according to the current MMUTCD Standards. Sign covers shall be placed over existing regulatory, warning and construction signs that are not applicable during construction.

Cones and Drums are intended to keep traffic out of the closed lane. Cones and Drums should not be mixed within the work zone. Drums should be used in all long-term and intermediate-term work zones instead of cones.

Arrow Board Panels may be stationary or with truck mounted attenuators.

Work shall be conducted during daylight hours only. No work shall be conducted on Sunday unless approved by the LCRC Engineer.

Partial lane closures shall be avoided. If any part of a lane is to be occupied, the whole lane shall be closed.

The maximum distance between the traffic regulators shall be no more than 2 miles in length. All sequences of more than 2 miles in length will require the LCRC Engineer's Approval before proceeding.

If a work zone is to be located on a road with no outlet, the following may be used as an acceptable alternative to the appropriate signing typical: A "Road Closed __ Miles Ahead Local Traffic Only" sign (note: a R11-3 sign may be modified to either block out the mileage or show the correct mileage) shall be attached to a Type III Barricade and placed at the entrance to the development.

“Traffic Fines Doubled in Work Zones” and “Injure/Kill a Worker \$7500+ 15 Years” signs are suggested for all work zones and required for intermediate-term, long-term, and mobile lane closures. Agencies and workers may only be covered by this legislation if the appropriate signs are present in the work zone.

It is important that the work zone be driven on a daily basis to ensure that the motorist will not be confused by the signing sequence and that all lighted arrows are aimed correctly.

Sign Spacing – “D” Distances

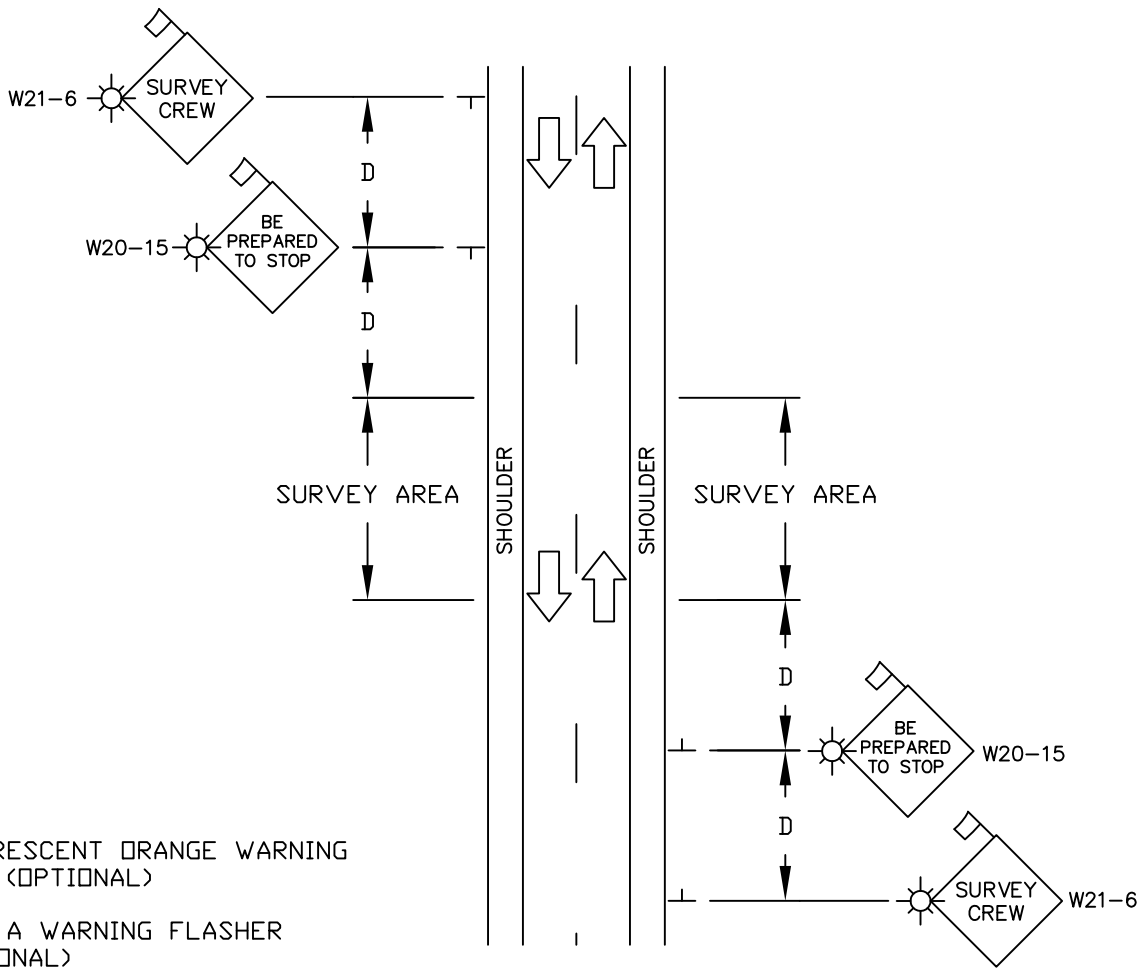
The spacing between signs is based upon the permanently posted roadway speed. The sign spacing distances are approximate and may be adjusted to meet changing roadway and traffic conditions.

Speed (MPH)	Distance (Ft)	Speed (MPH)	Distance (Ft)
25	250	45	450
30	300	50	500
35	350	55	550
40	400		



Enforcement

Work Zone violations shall first receive a verbal warning. If the proper corrections are not made, the work zone will be shut down and the contractor will be forced to leave the Lapeer County Right-of-Way immediately. After a verbal warning has been issued, all work zone inspections performed by the LCRC staff shall be billed to the contractor.

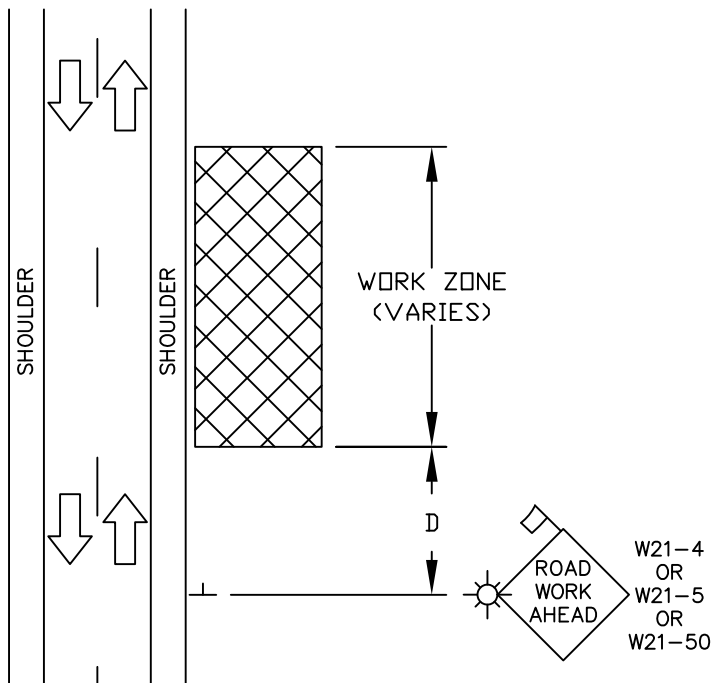
ADOPTED BY THE LAPEER COUNTY BOARD OF COMMISSIONERS: MAY 9, 2005



LEGEND:

-  FLUORESCENT ORANGE WARNING FLAG (OPTIONAL)
-  TYPE A WARNING FLASHER (OPTIONAL)

SURVEY WORK - ALL DURATIONS





NOTE:

IF A VEHICLE OR EQUIPMENT IS ENCROACHING UPON OR IS ON THE SHOULDER, TRAFFIC CONTROL SHOULD REFLECT A SHOULDER CLOSURE.

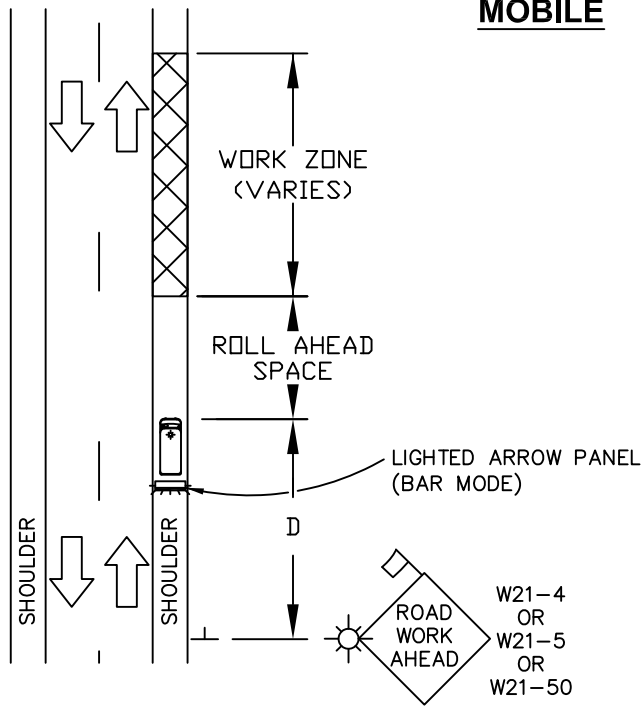
THIS DETAIL REFLECTS THE MINIMUM REQUIRED SIGNING. EXTRA SIGNS ARE SUGGESTED AND MAY BE NECESSARY AS DIRECTED BY THE LCRC ENGINEER.

LEGEND:

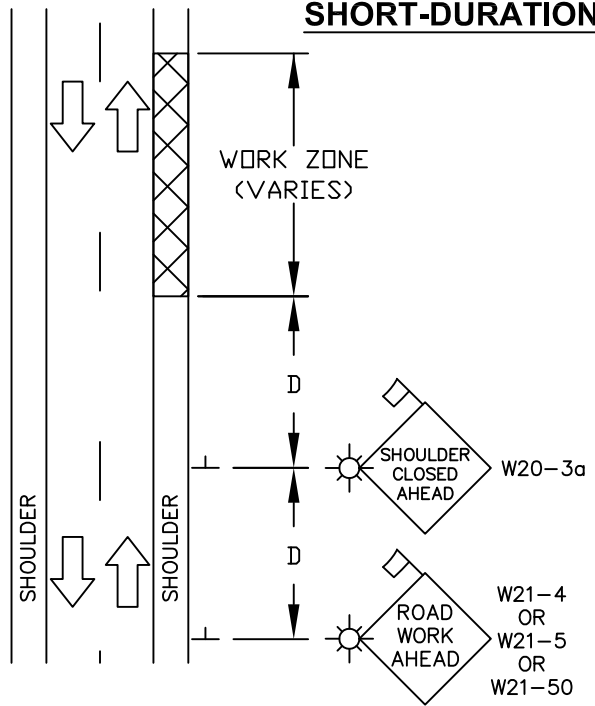
-  FLUORESCENT ORANGE WARNING FLAG (OPTIONAL)
-  TYPE A WARNING FLASHER (OPTIONAL DURING DAYTIME, REQUIRED AT NIGHT)

WORK OUTSIDE OF THE SHOULDER - ALL DURATIONS

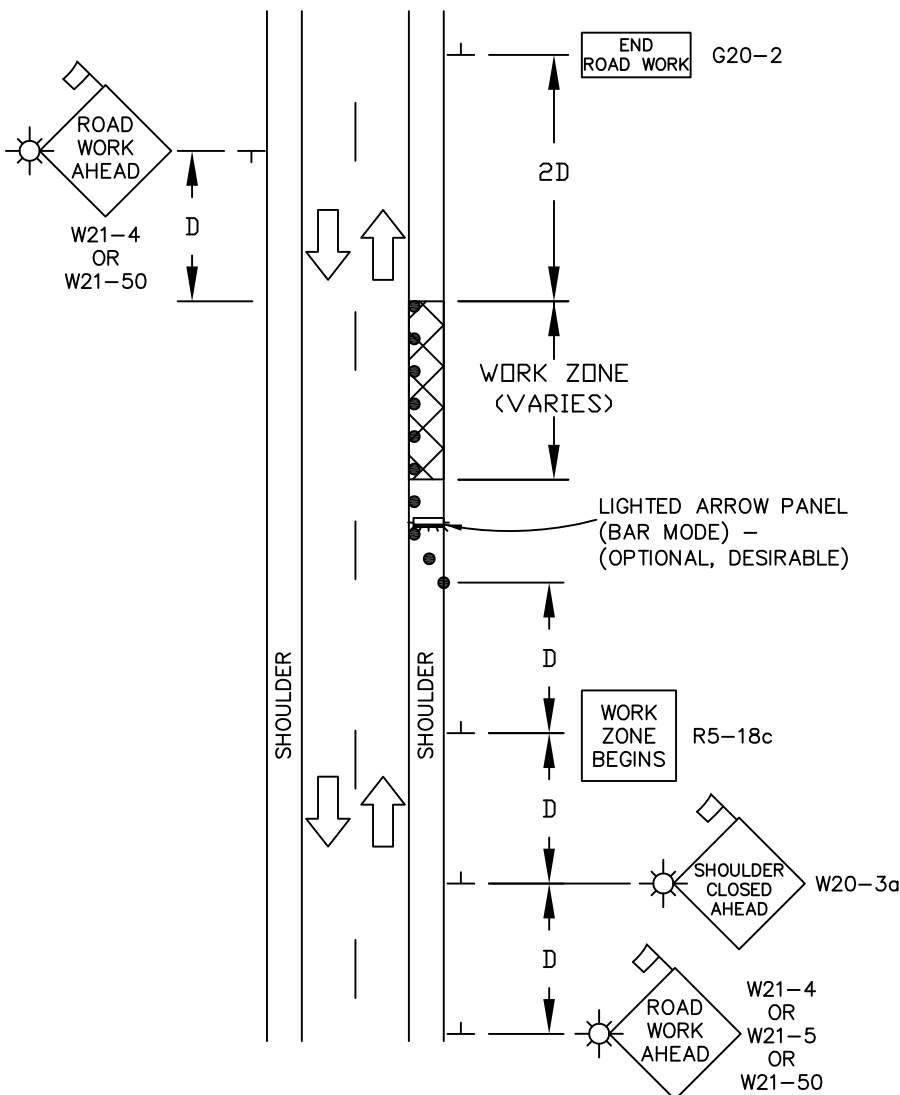
MOBILE



SHORT-DURATION



SHORT-TERM, INTERMEDIATE-TERM, AND LONG-TERM



NOTE:

IF A VEHICLE OR EQUIPMENT IS ENCRDACHING UPON OR IS ON THE ROADWAY, TRAFFIC CONTROL SHOULD REFLECT A LANE CLOSURE.

CHANNELIZING DEVICES SHOULD BE SPACED AT A MAXIMUM OF 50' INTERVALS. CHANNELIZING DEVICES ON TAPERS SHOULD BE SPACED EVERY 15' OR LESS.

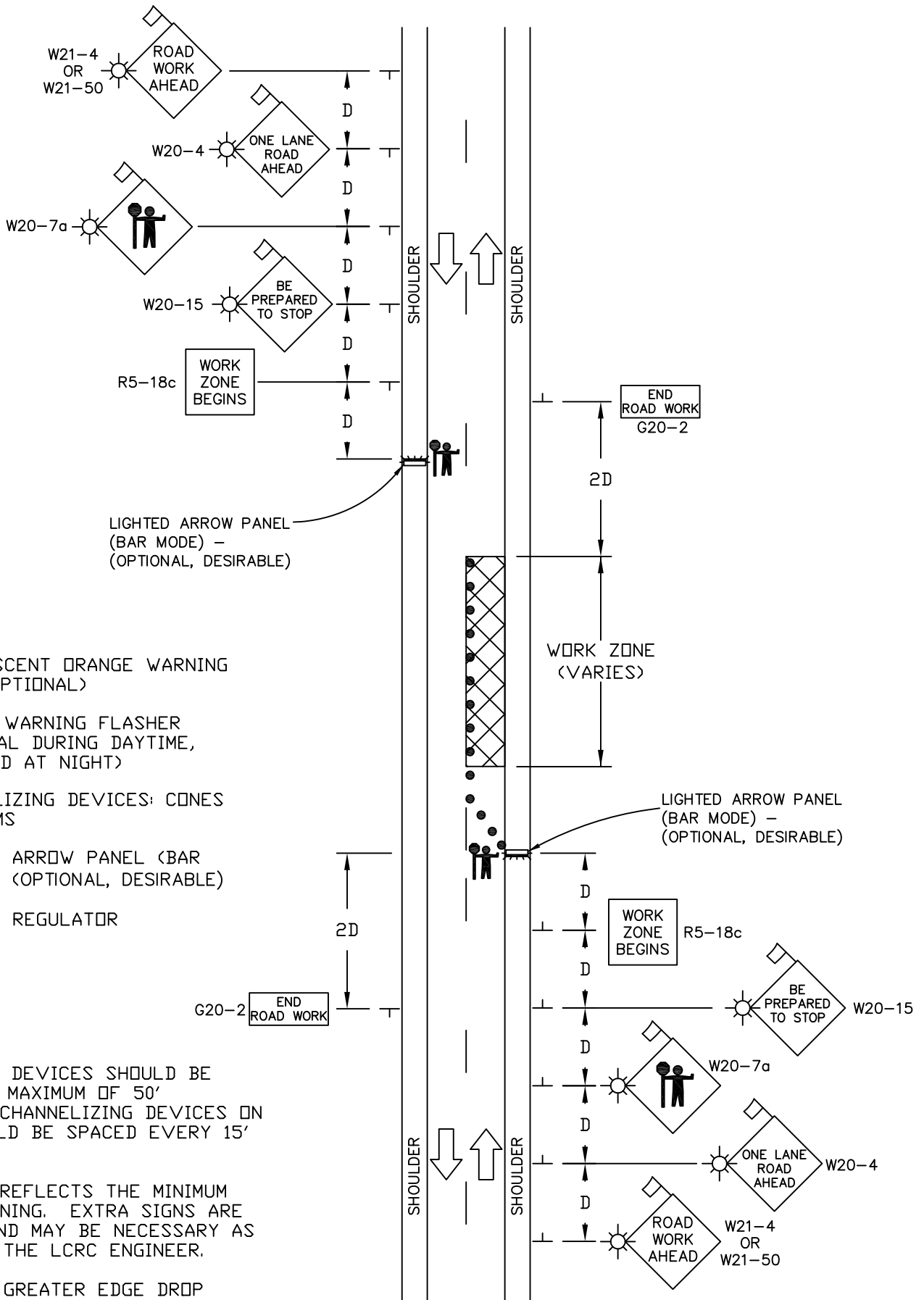
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A 3 INCH OR GREATER EDGE DROP SHALL REQUIRE PLASTIC DRUMS TO BE PLACED ALONG THE DROP.






LEGEND:

- FLUORESCENT ORANGE WARNING FLAG (OPTIONAL)
- TYPE A WARNING FLASHER (OPTIONAL DURING DAYTIME, REQUIRED AT NIGHT)
- CHANNELIZING DEVICES: CONES OR DRUMS
- LIGHTED ARROW PANEL (BAR MODE)
- VEHICLE WITH FLASHING OR ROTATING LIGHTS (OPTIONAL)

SHOULDER WORK



LEGEND:

-  FLUORESCENT ORANGE WARNING FLAG (OPTIONAL)
-  TYPE A WARNING FLASHER (OPTIONAL DURING DAYTIME, REQUIRED AT NIGHT)
-  CHANNELIZING DEVICES: CONES OR DRUMS
-  LIGHTED ARROW PANEL (BAR MODE) - (OPTIONAL, DESIRABLE)
-  TRAFFIC REGULATOR

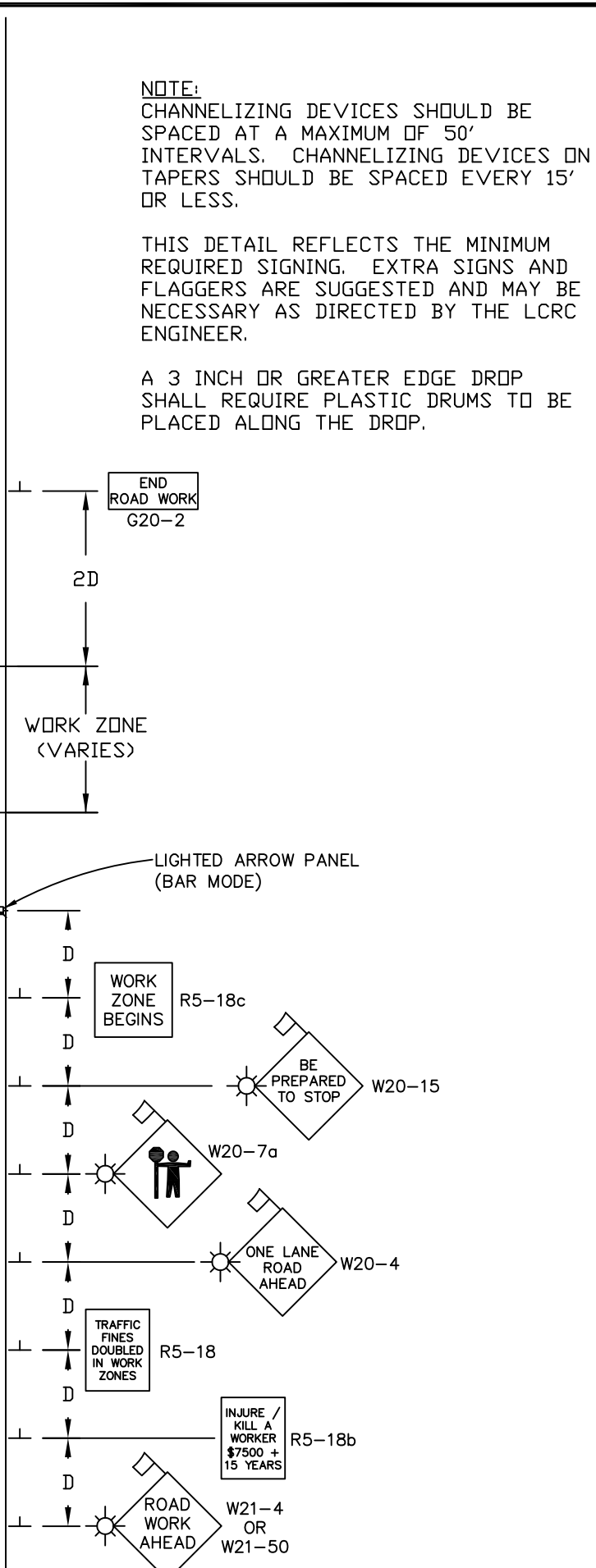
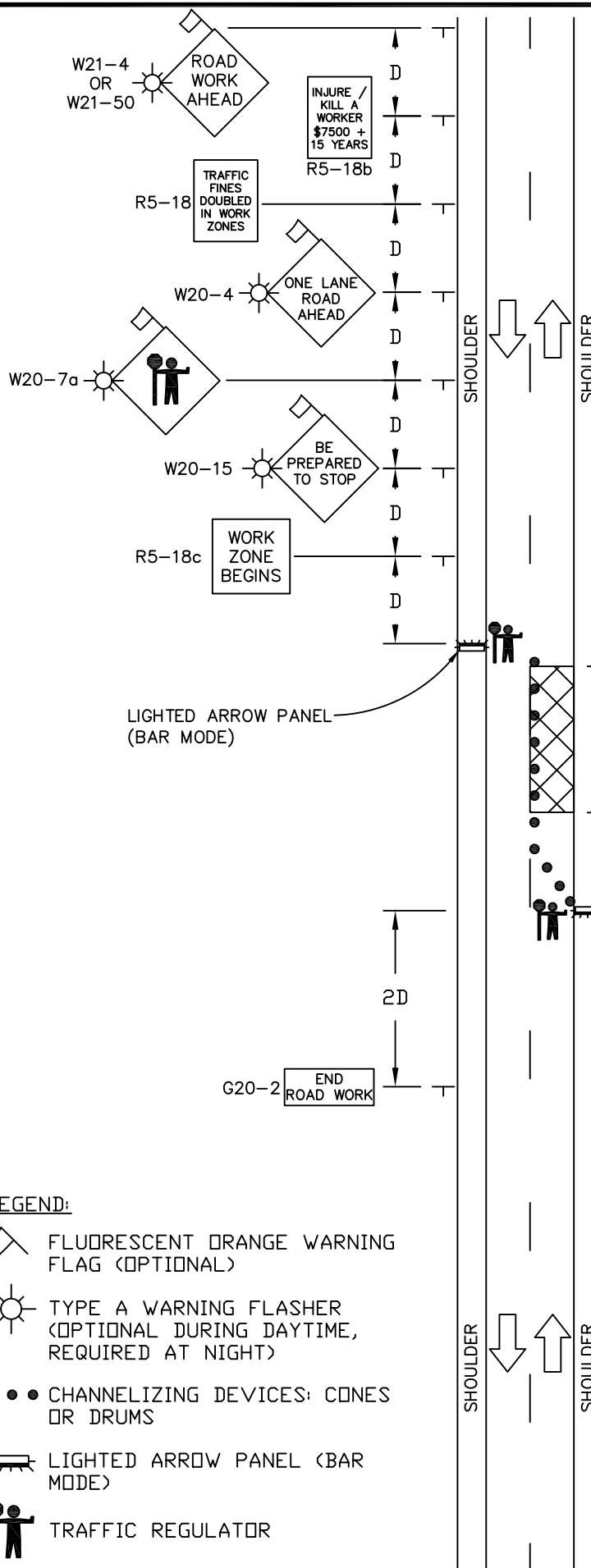
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LANE CLOSURE - SHORT DURATION, SHORT-TERM








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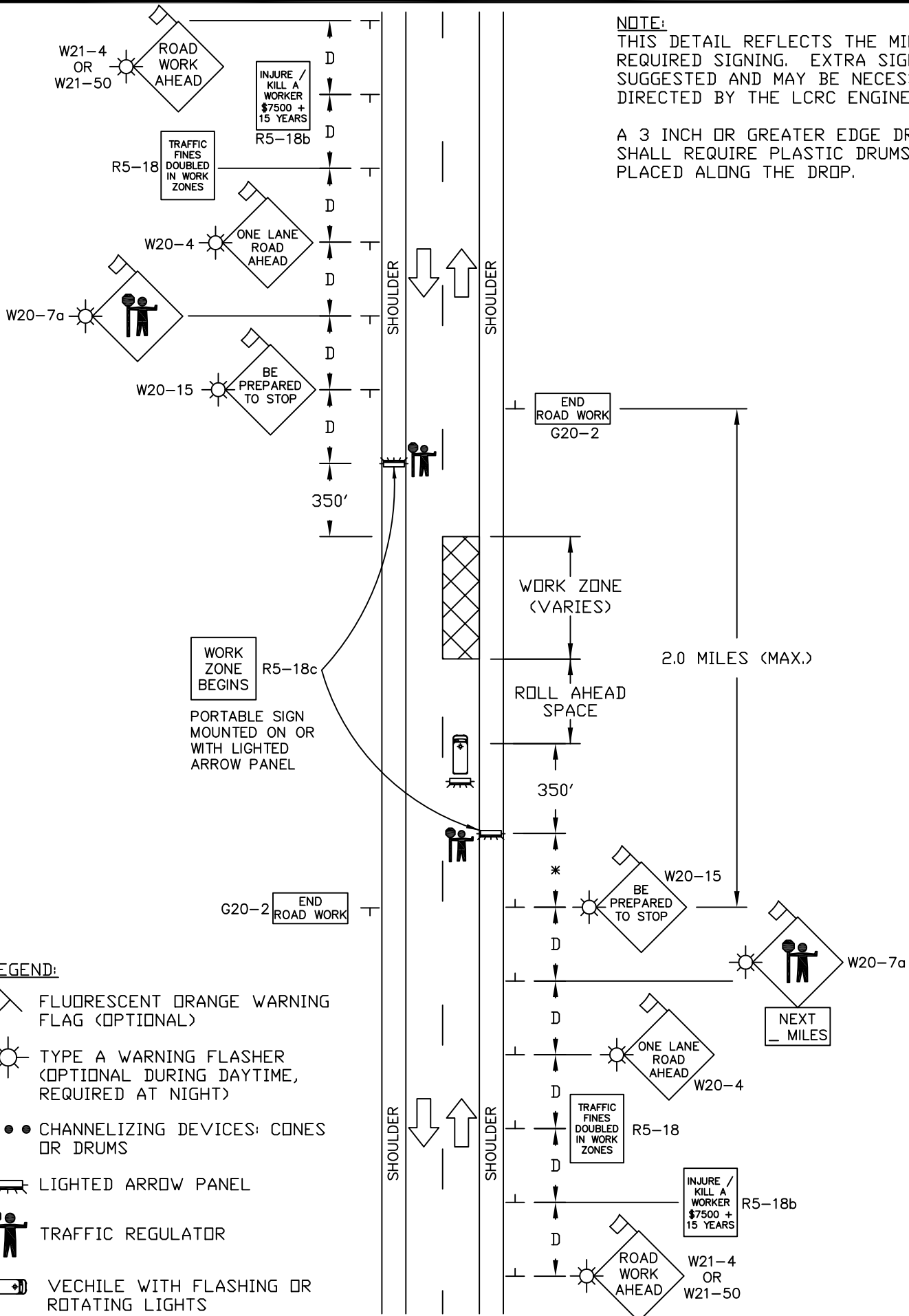
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-  TYPE A WARNING FLASHER (OPTIONAL DURING DAYTIME, REQUIRED AT NIGHT)
-  CHANNELIZING DEVICES: CONES OR DRUMS
-  LIGHTED ARROW PANEL (BAR MODE)
-  TRAFFIC REGULATOR







LANE CLOSURE - INTERMEDIATE-TERM, LONG-TERM

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-  LIGHTED ARROW PANEL
-  TRAFFIC REGULATOR
-  VEHICLE WITH FLASHING OR ROTATING LIGHTS

LANE CLOSURE - MOBILE