

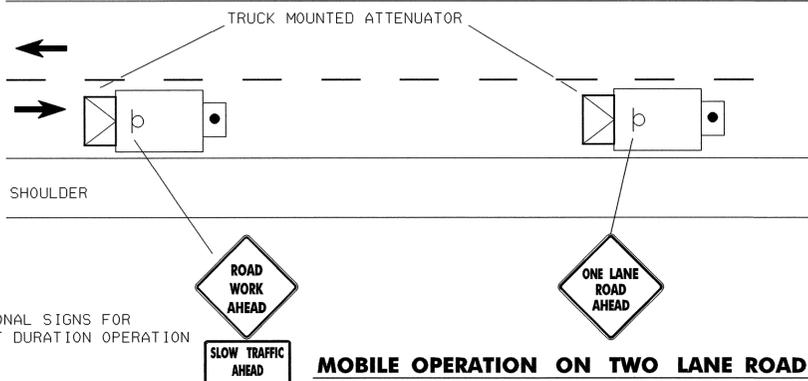
**NOTES:**

1. IN SITUATIONS WHERE MULTIPLE WORK LOCATIONS IN A LIMITED DISTANCE MAKE IT PRACTICABLE TO PLACE STATIONARY SIGNS, THE MAXIMUM SPACING FOR THE ADVANCE OF THE WORK.
2. THE LENGTH OF ACTIVITY AREA SIGN MAY BE USED AS THE STATIONARY ADVANCE WARNING SIGN IF THE WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 3.2KM.
3. WARNING SIGNS ARE NOT REQUIRED IF THE WORK VEHICLE DISPLAYS A FLASHING OR REVOLVING YELLOW LIGHT, THE DISTANCE BETWEEN WORK LOCATIONS IS 1.6 KM OR MORE, AND THE WORK VEHICLE TRAVELS AT TRAFFIC SPEEDS BETWEEN LOCATIONS.

**MOBILE OPERATION ON SHOULDER**

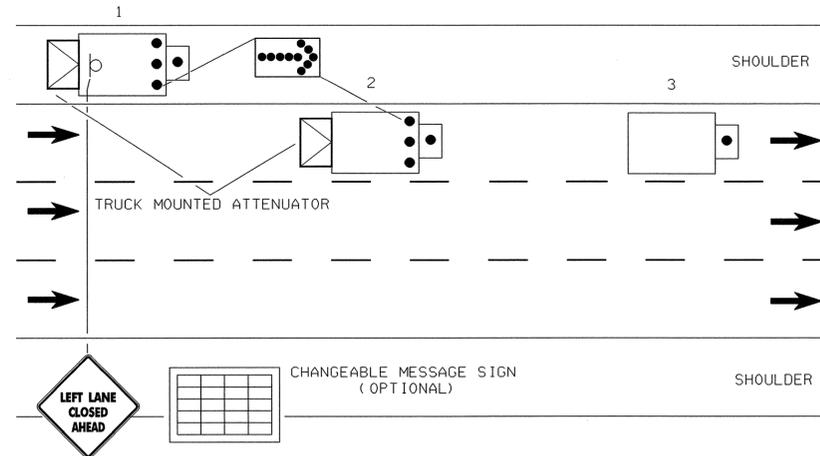
**NOTES:**

1. WHERE PRACTICABLE AND WHEN NEEDED, THE WORK AND PROTECTION VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THIS CANNOT BE DONE FREQUENTLY, AS AN ALTERNATIVE, A DO NOT PASS SIGN MAY BE PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
2. THE DISTANCE BETWEEN THE WORK AND PROTECTION VEHICLES MAY VARY ACCORDING TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. PROTECTION VEHICLES ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, THE PROTECTION VEHICLE SHOULD MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. THE PROTECTION VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
3. ADDITIONAL PROTECTION VEHICLES TO WARN AND REDUCE THE SPEED OF ONCOMING OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USED FOR THIS PURPOSE.
4. A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE USED ON THE PROTECTION VEHICLE AND SHOULD BE CONSIDERED ON THE WORK VEHICLE.
5. THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS, AND THE PROTECTION VEHICLES SHALL BE EQUIPPED WITH A TMA AND TWO HIGH - INTENSITY FLASHING LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN. PROTECTION AND WORK VEHICLES SHOULD DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWARD AND TO THE REAR.
6. VEHICLE - MOUNTED SIGNS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGN AT A MINIMUM HEIGHT OF 4 FEET ABOVE THE PAVEMENT. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
7. ARROW DISPLAYS ARE OPTIONAL AND SHOULD BE TYPE B, 1500MM BY 750MM.



OPTIONAL SIGNS FOR SHORT DURATION OPERATION

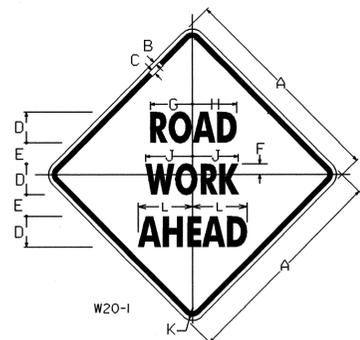
**MOBILE OPERATION ON TWO LANE ROAD**



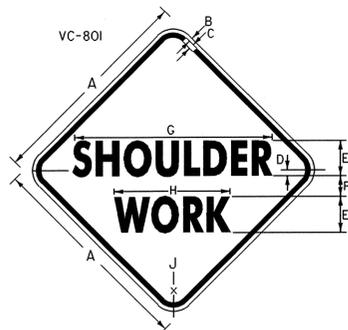
**NOTES:**

1. VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLAGS, SIGNS, OR ARROW DISPLAYS.
2. PROTECTION VEHICLE #1 SHOULD BE EQUIPPED WITH AN ARROW DISPLAY. AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE PLACED ON PROTECTION VEHICLE #1 SO AS NOT TO OBSCURE THE ARROW DISPLAY.
3. PROTECTION VEHICLE #2 SHOULD BE EQUIPPED WITH AN ARROW DISPLAY AND TRUCK - MOUNTED ATTENUATOR.
4. PROTECTION VEHICLE #1 SHOULD TRAVEL AT A VARYING DISTANCE FROM THE WORK OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
5. WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, PROTECTION VEHICLE #1 SHOULD BE ELIMINATED.
6. ON HIGH - SPEED ROADWAYS, A THIRD PROTECTION VEHICLE SHOULD BE USED - VEHICLE #1 ON THE SHOULDER (IF POSSIBLE), VEHICLE #2 IN THE CLOSED LANE, AND VEHICLE #3 IN THE CLOSED LANE.
7. ARROW DISPLAYS SHALL BE AS A MINIMUM TYPE B, 1500MM BY 750MM (FIGURE VI - 9, SECTION 6F - 3) OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
8. WORK SHOULD NORMALLY BE DONE DURING OFF - PEAK HOURS.

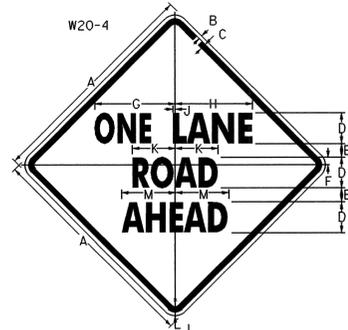
**MOBILE OPERATION ON MULTILANE ROAD**



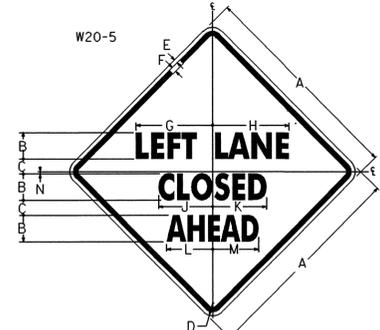
SIGN	DIMENSIONS ( mm )										
	A	B	C	D	E	F	G	H	J	K	L
MIN.	750	12	19	1000	72	66	169	175	180	47R	217
STD.	900	16	22	1250	87	81	209	222	225	56R	272
SPECIAL	1200	19	31	1750	119	112	292	311	316	75R	387



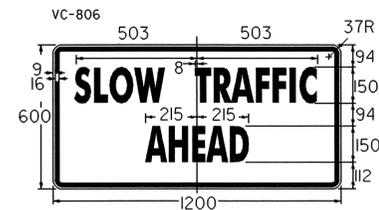
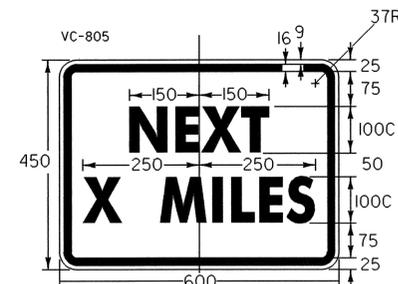
SIGN	DIMENSIONS ( mm )									
	A	B	C	D	E	F	G	H	J	
2 LANE	900	16	22	25	1250	87	873	443	56R	
4 LANE	1200	19	31	25	1750	100	968	503	75R	



SIGN	DIMENSIONS ( mm )												
	A	B	C	D	E	F	G	H	J	K	L	M	
MIN.	900	16	22	1250	56	31	328	316	9	7	56R	219	
STD.	1200	19	31	1750	78	44	462	444	12	242	75R	306	



SIGN	DIMENSIONS ( mm )													
	A	B	C	D	E	F	G	H	J	K	L	M	N	
STD.	1200	150C	84	75R	19	31	436	436	308	308	262	262	12	
URBAN	900	125C	69	56R	16	22	362	362	256	256	219	219	9	



REVISIONS AND CORRECTIONS  
FEB. 23, 1998 - DATE OF ORIGINAL ISSUE, NUMBER CHANGE  
FROM E-10AM TO E-112M

APPROVED  
*[Signature]*  
DIRECTOR OF PROJECT DEVELOPEMENT  
*[Signature]*  
DIRECTOR OF CONSTRUCTION AND MAINTENANCE

TRAFFIC CONTROL FOR  
TYPICAL MOVING MAINTENANCE  
OPERATIONS

OTHER STDS.  
REQUIRED:



STANDARD  
E-112M