



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SPACING OF CHANNELIZING DEVICES (G) FEET	SPACING OF ADVANCE WARNING SIGNS (A) FEET	DECISION SIGHT DISTANCE FEET	TAPER LENGTH (L) FEET	BUFFER SPACE (B) FEET
0 - 30	25	100	550	200	200
35 - 40		325	700	325	305
45 - 50	50	600	900	600	425
55		750	1200	700	500
60 - 65		1000	1400	800	650
70 - 75		1200	1600	900	820

DESIGNER NOTES (REMOVE FROM LAYOUT BEFORE INSERTING IN PLAN):

1. INSERT SPACING CHART DISTANCES INTO LAYOUTS AND REMOVE CHART WHENEVER PRACTICAL.
2. DETERMINE IF "END ROAD WORK" SIGNS ARE NEEDED.
3. CONSIDER THE INSTALLATION OF A PCMS AND/OR G20-X2 OR SPECIAL SIGN IF CONGESTION IS EXPECTED, IF ADVANCE SIGNING TO DIVERT TRAFFIC IS NEEDED, OR OTHER CONDITIONS DETERMINED BY THE ENGINEER.
4. CONSIDER THE INSTALLATION OF A PCMS AND/OR G20-X1 SIGN (MODIFIED) OR G20-X2 SIGN FOR SEVEN DAY ADVANCE WARNING OF RESTRICTION.
5. FOR ANY EXCAVATION OR DROP-OFF IN EXCESS OF 12 IN., SEE THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SECTION 6F.85 TEMPORARY "TRAFFIC BARRIERS".
6. FOR CLOSURES GREATER THAN 1000 FT., SEE LAYOUT 70 "LANE CLOSURE EXTENSION".
7. ✱ - REQUIRED FOR SPEEDS 45 MPH AND GREATER.
8. SELECT APPROPRIATE MATERIAL FOR TEMPORARY MARKINGS. SEE STRIPING KEY.
9. IF 48"X48" ADVANCE WARNING SIGNS WILL NOT FIT ON THE LEFT SIDE BECAUSE OF A NARROW MEDIAN (LESS THAN 6 FT.)  
A. REDUCE THE LEFT SIDE SIGN SIZES OR  
B. ELIMINATE THE LEFT SIDE SIGNING, USE AN ADDITIONAL "RIGHT LANE CLOSED" SIGN ON THE RIGHT, AND DISPLAY THE FLASHING ARROWBOARD ON THE SHOULDER.
10. IF BACKUPS ARE EXPECTED CONSIDER USE OF LAYOUT 66 "PASSIVE ZIPPER MERGE".
11. REMOVE CONFLICTING MARKINGS. DETERMINE QUANTITY OF MARKINGS TO BE REMOVED OR COVERED FOR PAY ITEM QUANTITIES.
12. THE FLASHING ARROW BOARD SHALL BE USED WHEN THE POSTED SPEED LIMIT IS 45 MPH OR GREATER, AND SHALL BE PLACED FULLY ON THE SHOULDER. IF THERE IS NO SHOULDER, OR THE SHOULDER IS TOO NARROW, PLACE THE FLASHING ARROW BOARD AT THE END OF THE TAPER IN LIEU OF THE TYPE III BARRICADE ASSEMBLY.

- 4" SOLID WHITE REMOVEABLE PREFORMED PLASTIC MARKING
- DRUMS, TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL.
- SOLID LINE PAVEMENT MARKING WITH TEMPORARY RAISED PAVEMENT MARKERS AT 10' SPACING OR WET REFLECTIVE TAPE.