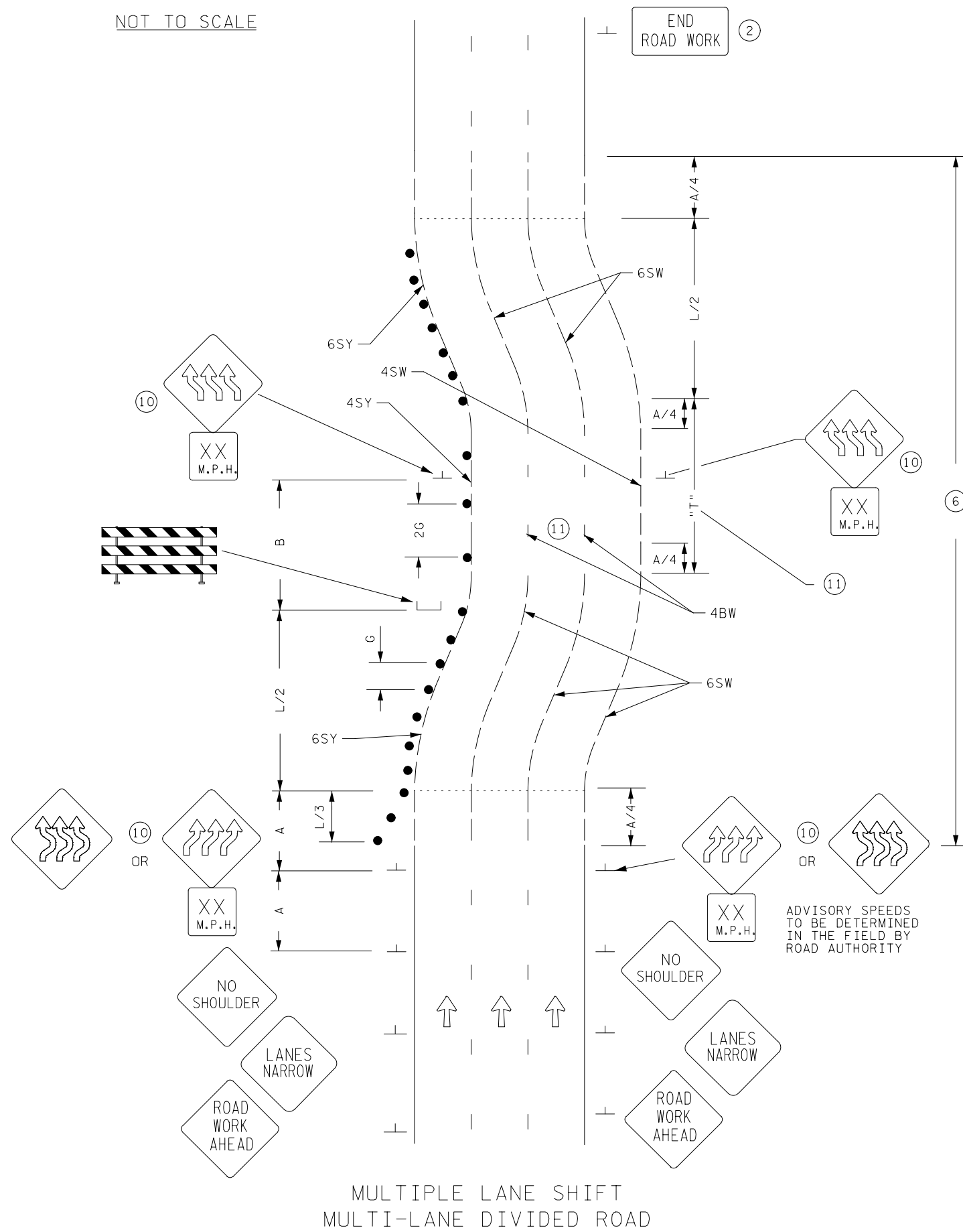


NOT TO SCALE



MULTIPLE LANE SHIFT
MULTI-LANE DIVIDED ROAD

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	SHIFTING TAPER (L/2) FEET	TYPICAL SHOULDER TAPER (L/3) FEET	BUFFER SPACE (B) FEET
0 - 30	25	100	550	200	100	75	200
35 - 40		325	700	325	175	125	305
45 - 50	50	600	900	600	300	200	425
55		750	1200	700	350	250	500
60 - 65		1000	1400	800	400	275	650
70 - 75		1200	1600	900	450	300	820

ALL DISTANCES BASED ON 12 FT LANE WIDTHS.

DESIGNER NOTES:

TYPICAL APPLICATION FOR REFERENCE ONLY, NOT TO BE INSERTED INTO PLAN.

1. INSERT SPACING CHART DISTANCES INTO LAYOUTS.
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 DEPARTMENT OF TRANSPORTATION "TEMPORARY BARRIER GUIDANCE MANUAL".
6. MASK OR REMOVE ALL CONFLICTING PAVEMENT MARKINGS. DETERMINE QUANTITY OF MARKINGS TO BE MASKED OR REMOVED FOR PAY ITEM QUANTITIES.
7. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE MATERIAL.
8. LIST ALL DIRECTIONAL SIGNING THAT MUST BE COVERED, REMOVED OR MODIFIED BECAUSE OF RESTRICTIONS.
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 TO 36"x36" 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 "T" IS LESS THAN 600' USE THE BYPASS SIGN. IF "T" IS GREATER THAN 600' USE THE REVERSE CURVE SIGNS.
11. IF "T" IS 600' OR LESS INSTALL 6" SOLID LINE WHITE STRIPING THROUGH THE ENTIRE LENGTH OF THE TANGENT. IF "T" IS GREATER THAN 600' INSTALL 4" BROKEN LINE WHITE STRIPING FOR THE ENTIRE LENGTH OF THE TANGENT. CONSIDER 8" ON SHARP CURVES, PAVEMENT COLOR CONFLICTS, REDUCTION OF SPEED (10-15 MPH BELOW POSTED), OR IF OVER WINTER.
12. THE MINIMUM LANE WIDTH SHOULD BE 11 FEET AND SHALL NOT BE LESS THAN 10 FEET. IF LANE WIDTH IS LESS THAN 11 FEET FURNISH AND INSTALL ADDITIONAL (REDUCED WIDTH) W20-X11 SIGNS.

4SY = 4 INCH SOLID LINE YELLOW WET REFLECTIVE
 4SW = 4 INCH SOLID LINE WHITE WET REFLECTIVE
 4BW = 4 INCH BROKEN LINE WHITE WET REFLECTIVE
 6SY = 6 INCH SOLID LINE YELLOW WET REFLECTIVE
 6SW = 6 INCH SOLID LINE WHITE WET REFLECTIVE

● DRUMS
 - - - TEMPORARY WET REFLECTIVE PAVEMENT MARKING.