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 96x96 or 24x24 or special sign if condition is expected. If advance warning signs are used, other conditions determined by the Engineer.

4. Consider the installation of a 96x96 or 24x24 sign (modified) on the other side of the obstruction.

5. For any excavation or drop-off in excess of 12 in, see the Minnesota Manual on Uniform Traffic Control Devices Section 6F.7 temporary "traffic barriers".

6. For closures greater than 1000 ft, see layout 78 "Lane Closure Extension".

7. X - Required for speeds 45 mph and greater.

8. Select appropriate material for temporary markings, see striping key.

9. If 48x48" advance warning signs will not fit on the left side because of a narrow section less than 9 ft, reduce the left side sign sizes or eliminate the left side sign and display the flashing arrow board on the right.

10. If backups are expected consider use of layout 65 "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 should be used when the posted speed limit is 40 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.