1. Insert spacing chart distances into layouts and remove chart无所谓。
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 7 "Lane Closure Extension".
7. X - required for speeds 45 mph and greater.
8. Select appropriate material for temporary markings, see striping key.
9. When impacting pedestrian facilities, temporary pedestrian access routes must be provided. See layouts 6J-24 and 6J-25 for guidance.
10. Contact appropriate road authority for signal timing modifications and possible turn restrictions before beginning work at any signalized intersection.
11. Cover or modify all directional signing affected by any turn restrictions. Include sign modifications, covers or removals in traffic control plan.
12. Remove conflicting markings. Determine quantity of markings to be removed or covered for pay item quantities.
13. Consider right turn placement based on expected queue lengths.
14. 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.

**Designer Notes (Remove from layout before inserting in plan):**

1. Insert spacing chart distances into layouts and remove chart wherever 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.
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