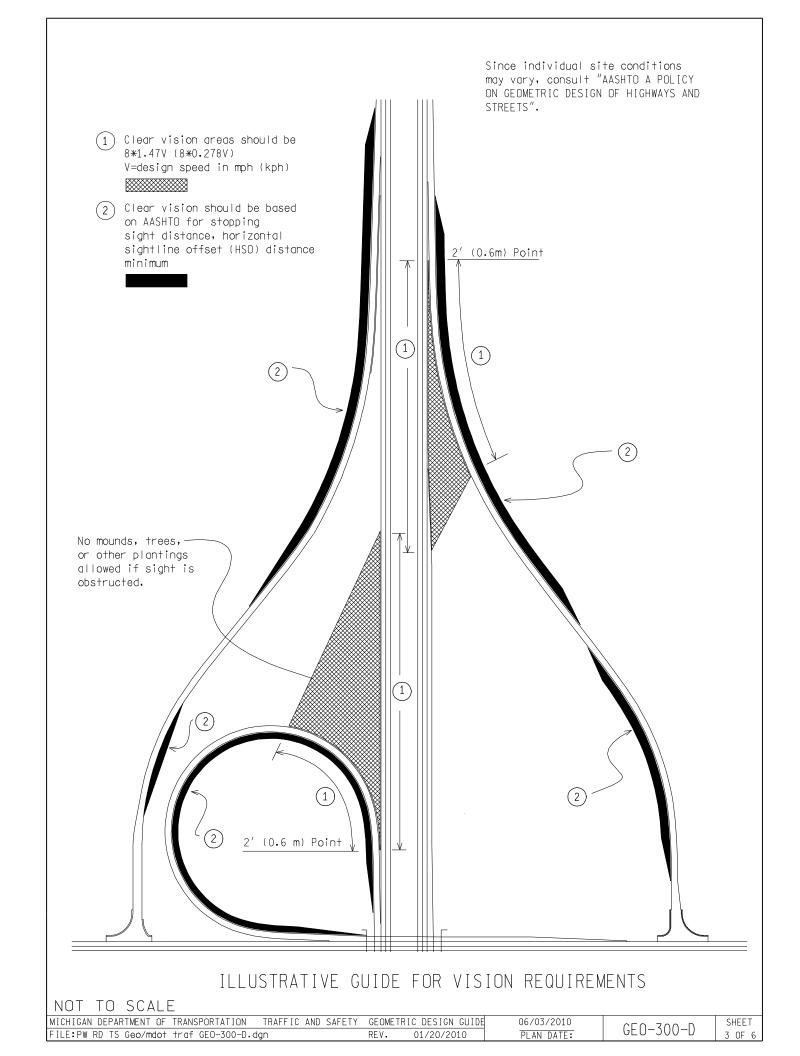


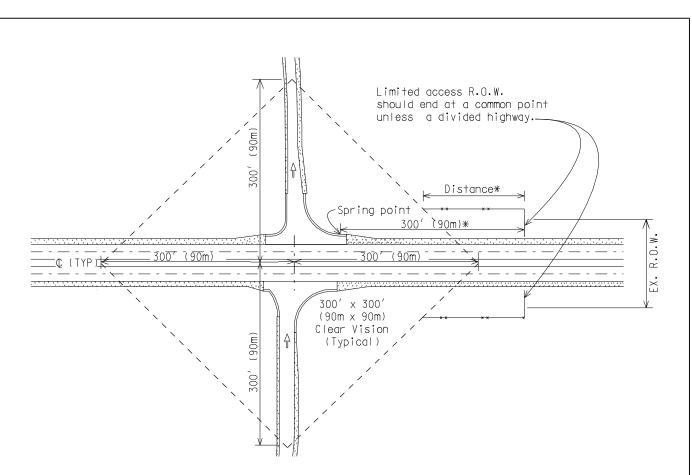
MICHIGAN DEPARTMENT OF TRANSPORTATION TRAFFIC AND SAFETY GEOMETRIC DESIGN GUIDE FILE:PW RD TS Geo/mdot traf GEO-300-D.dgn REV. 01/20/2010

06/03/2010 PLAN DATE:

GEO-300-D

SHEET 2 OF 6





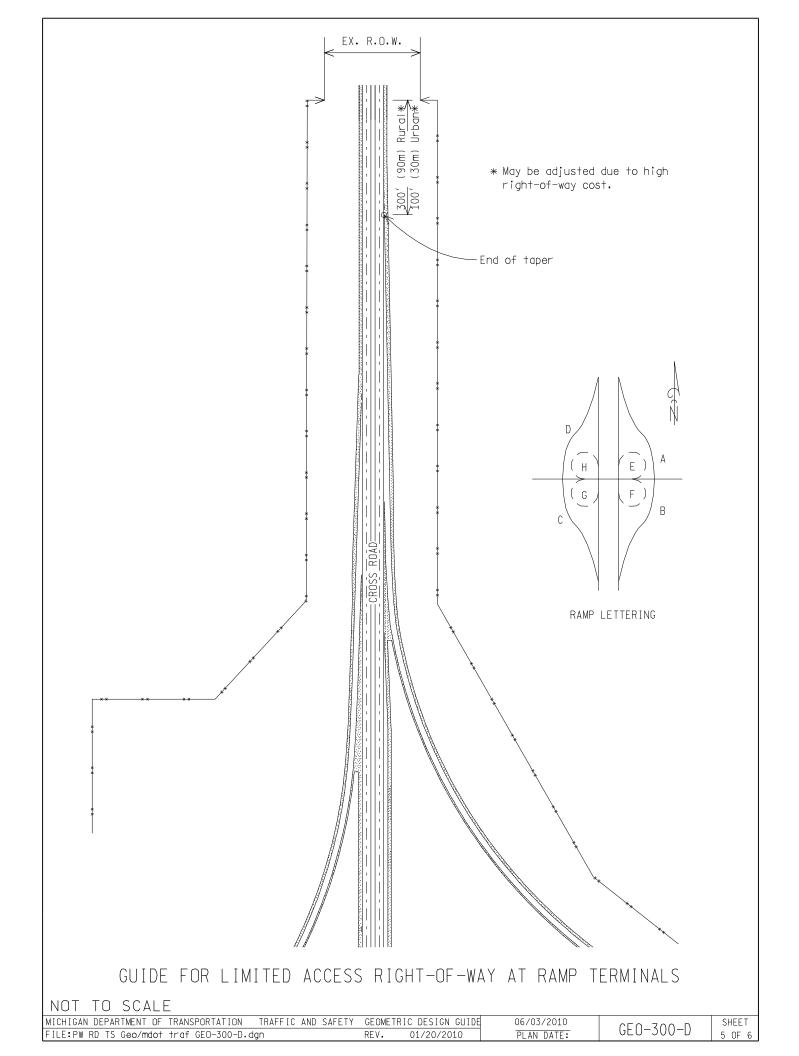
\*Limited access right-of-way to the end of the right turn taper or 300′ (90m) minimum from the springpoint, if there is no auxiliary lane.

May be adjusted due to high right-of-way  $\cos t$ .

GUIDE FOR LIMITED ACCESS RIGHT-OF-WAY AND CLEAR VISION AREAS AT RAMP TERMINALS (RURAL)

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION TRAFFIC AND SAFETY GEOMETRIC DESIGN GUIDE FILE:PW RD TS Geo/mdot traf GEO-300-D.dgn REV. 01/20/2010 PLAN DATE: GEO-300-D 4 0F 6



## NOTES:

- 1. Spiral transitions should be used on new ramp alignments based on the design speed of the curve and the radius as shown in the table of the Road Standard Plan R-107-Series.
- 2. The cross slope in the gore area between the 2' (0.6m) point and the 22' (6.6m) point should not exceed 8% with a 6% maximum algebraic difference in cross slope between the gore and the adjacent lane. This algebraic difference also applies within crowned gores.
- 3. The design speed of the ramp vertical alignment should meet or exceed the design speed of the ramp horizontal alignment.
- 4. Each ramp should be carefully studied to provide maximum vision at its merge points.
- 5. See Geometric Design GEO-370-Series for ramp terminal details.
- 6. The interchange design should allow for possible future construction of a Parclo-A 4 quad design or the need for B-Loops. See GEO-120-Series for successive entrance ramps and GEO-150-Series for successive exit ramps.
- 7. See Standard Plan R-42-Series for joint layouts for ramps.
- 8. Current AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS and MDOT Guidelines should be used for sight distance requirements. Local or County roads over freeways should be designed for stopping sight distance based on the project design speed.
- 9. Limited access Right-of-Way should be as shown in this guide and the current MDOT Road Design Manual.
- 10. These design concepts are for new construction. Where modifications are needed for retrofitting to existing road features, consult the Geometric Review and Congestion Analysis Unit, Division of Operations.