

Thornwood Drive Turn Lane Warrants Analysis Summary

Turn lane warrants analyses were performed using left and right turn lane warrant charts (401-5a, 401-5b, 401-6a, and 401-6b) in the L&D manual for free-flow approach of the unsignalized intersection. HCS was also utilized for analyzing intersections in the signalized condition. However, it was determined that none of intersections meet signal warrants.

Thornwood Dr. and Seminary Rd. -Unsignalized Intersection

Left Turn Lane on Thornwood (N.B) is warranted.
Right Turn Lane on Thornwood (S.B) is warranted.

Thornwood Dr. and Lees Rd. -Unsignalized Intersection

Left Turn Lane on Thornwood (N.B) is warranted.
Right Turn Lane on Thornwood (S.B) is warranted.

Thornwood Dr. and Irvingwick Dr. -Unsignalized Intersection

Left Turn Lane on Thornwood (S.B) is warranted.
Right Turn Lane on Thornwood (N.B) is warranted.
Left and Right turn lanes will not be included in the design based on recommendations from the ODOT due to right-of-way issue.
Based on the design year 2030 traffic data, this intersection is warranted for a signal. However, signal is NOT warranted based on the opening date (2010) traffic data.

Thornwood Dr. and Hallie Ln. -Unsignalized Intersection

Left Turn Lane on Thornwood (N.B) is warranted.
Right Turn Lane on Thornwood (S.B) is NOT warranted.

Thornwood Dr. and Faye Dr. -Unsignalized Intersection

Left Turn Lane on Thornwood (S.B) is NOT warranted.
Right Turn Lane on Thornwood (N.B) is NOT warranted.

Thornwood Dr. and River Rd. -Unsignalized Intersection

Left Turn Lane on Thornwood (N.B) is warranted.
Right Turn Lane on Thornwood (N.B) is warranted.

Thornwood Dr. and Main/ James Rd. – Unsignalized Intersection

Left Turn Lanes on Thornwood (N.B and S.B) are warranted.
Right Turn Lane on Thornwood (N.B) is warranted.
Right Turn Lane on Thornwood (S.B) is NOT warranted.

Left Turn Lane on Main St. is warranted.
Left Turn Lane on James Rd. is NOT warranted.
HCS analysis showed that adding left turn lanes on Main St. and James Rd. will not improve the LOS. Left turn lanes are not recommended on both James Rd. and Main St.