

AdvDS03100 – Divided Highway Corridor Modeling Strategy

This workflow demonstrates creation of Divided Highway Corridor Model. Divided Highway consists of 2 independent roadways separated by a 60' wide grass median. We will use alignments, profiles, dynamically linked feature lines, Autodesk and WisDOT subassemblies, setup corridors, and corridors to complete this exercise.

Typical section properties:

- 26' of 12" concrete pavement, 12' lanes(2' of concrete extends into outside shoulder)
- 6" base thickness
- 12' outside shoulders (10' paved)
- 6' inside shoulders (3' paved)
- 34' clearzone
- 6:1 shoulder foreslopes

NOTE: There are 2 datasets related to this exercise available for download. The StartExerciseAdvDS03100.zip data set should be used if you wish to follow the exercise. The FinishedExerciseAdvDS03100.zip data set is completed exercise data and is placed there for your review.

Inputs:

- AliProf-STH25.dwg
 - NB, SB alignments and profiles, superelevation definitions
 - NB, SB offset alignments
- Corridor-STH25-4Lane.dwg
 - Data shortcut references to roadway geometrics
- ExistSurface.dwg
 - Exist surface

Outputs:

- Corridor-STH25-4Lane.dwg
 - Proposed Median Ditch profile
 - Setup corridors
 - STH25-4Lane corridor

Watch Divided Highway Corridor Modeling Strategy Vbook for detailed procedure!!!!

1) Review pre-developed data	<ul style="list-style-type: none"> • Exist surface • Roadway alignments (with superelevation definitions), profiles, offset alignments • Data shortcuts 	
2) Create Setup-SGSP corridor	<ul style="list-style-type: none"> • Create Assemblies • Create Setup-SGSP corridor, assign targets • Create NBSGSP, SBSGSP dynamically linked feature lines • Create NB-MinDitchDepth, SB-MinDitchDepth dynamically linked feature lines 	
3) Create Setup-Median-Ditch corridor	<ul style="list-style-type: none"> • Create Assembly • Create Setup-Median-Ditch corridor, assign targets 	

	<ul style="list-style-type: none"> • Create Max-Depth-Median-Ditch dynamically linked feature line 	
4) Develop proposed median ditch profile	<ul style="list-style-type: none"> • Project ditch elevation related feature lines to STH25-NB profile view • Develop median ditch profile using layout tools and projected feature lines as guidance 	
5) Create STH25-4Lane corridor	<ul style="list-style-type: none"> • Create Assemblies • Create STH25-4Lane corridor, assign targets • Review 	