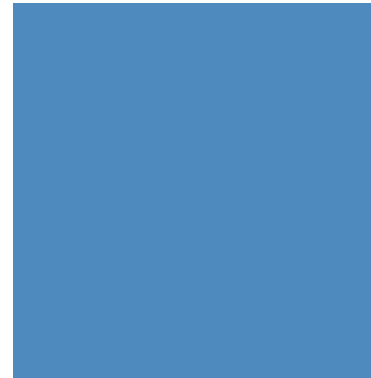
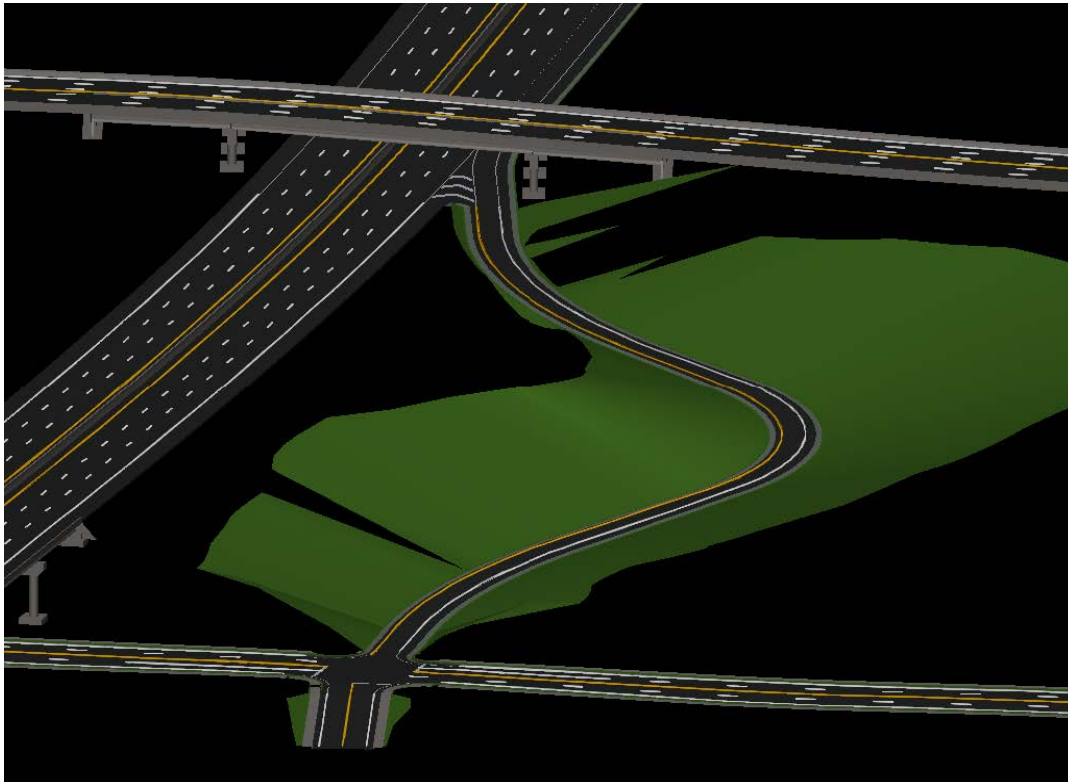


Highway *Innovations*, Start to Finish

Topic 5: Concept Station



Presenter:

Christopher Kavulich, PE

Concept Station – What's so Innovative?

- 3-D Modeler
- Direct Import of Existing Topo and Aerial
- Make changes vertically and horizontally in same view
- Realtime proposed surface updating
- Bridge tools
- LumenRT/Visualization
- VISSIM Export

Concept Station – Why use it?

- Conceptual Layouts

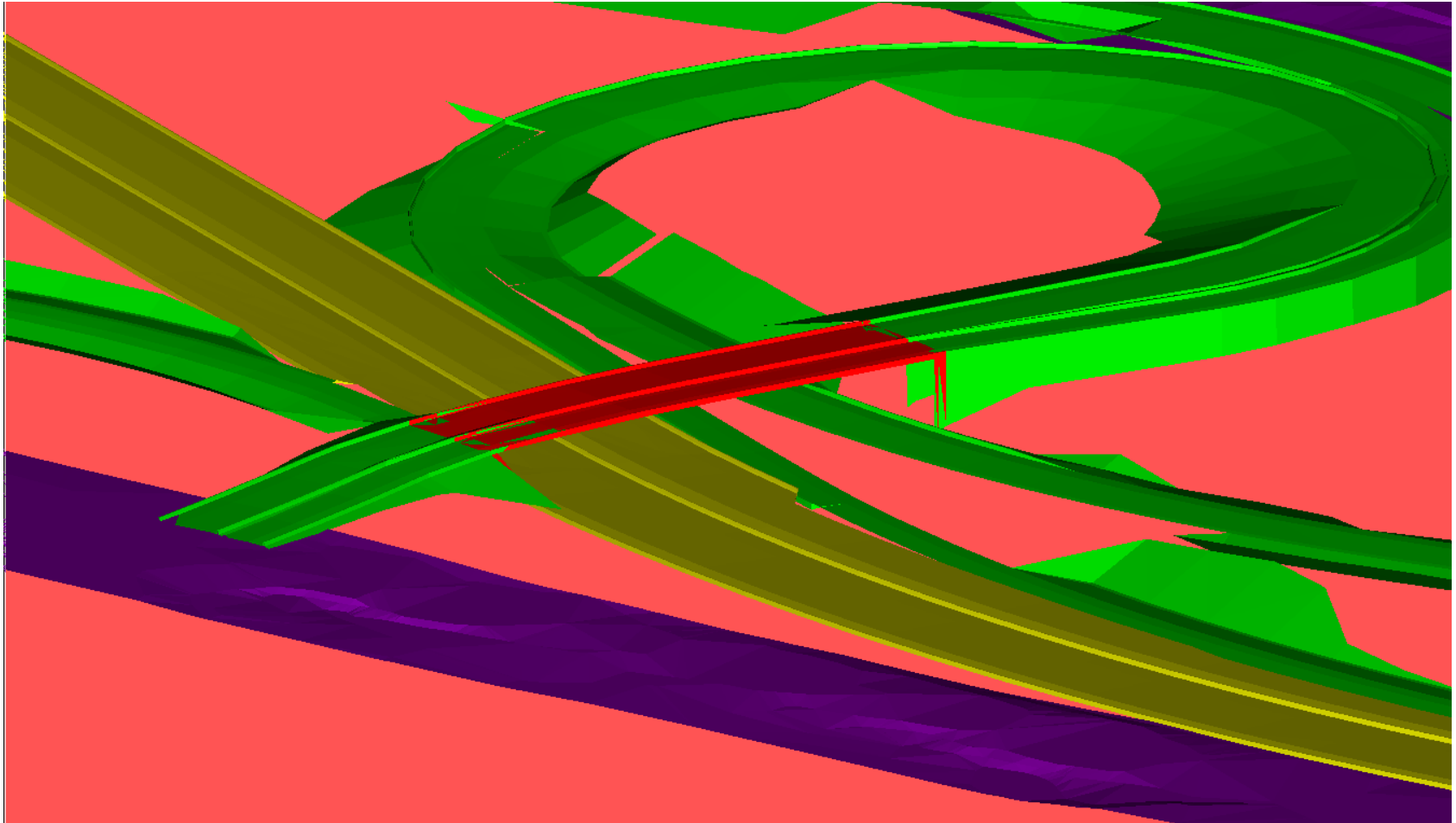


The Old Way

- Traditional InRoads
 - Existing Surface
 - Existing Aerials
 - Geometry
 - Templates
 - Corridors
 - Surfaces

The Old Way

- Traditional InRoads



The Old Way

- Traditional InRoads
 - Benefits
 - Challenges

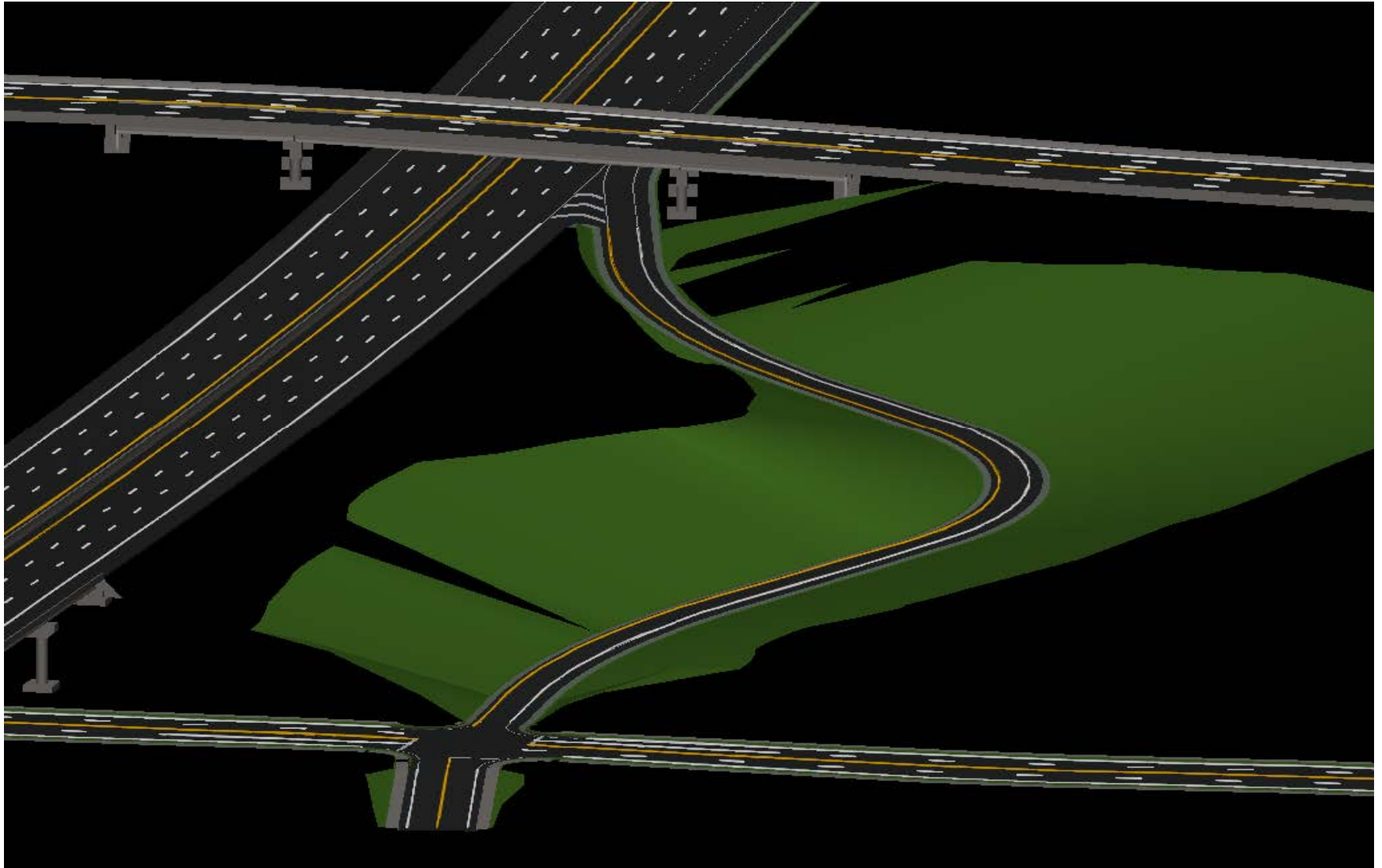


Concept Station – Effective Communication

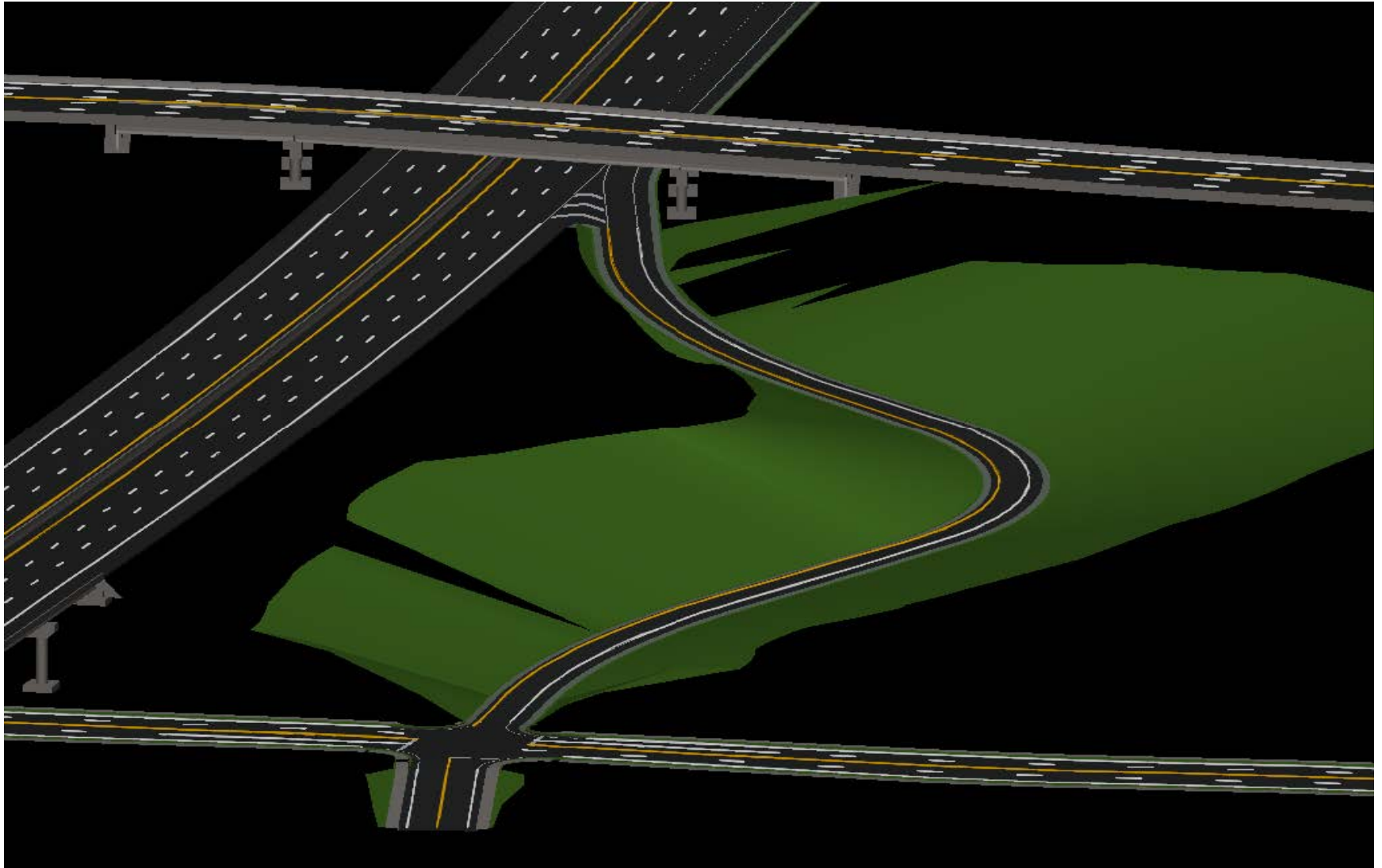
- Choose roadway type
- Layout roadway
- Adjust profile
- Add intersections
- Adjust bridge and confirm clearance



Ramp Design Demo Video

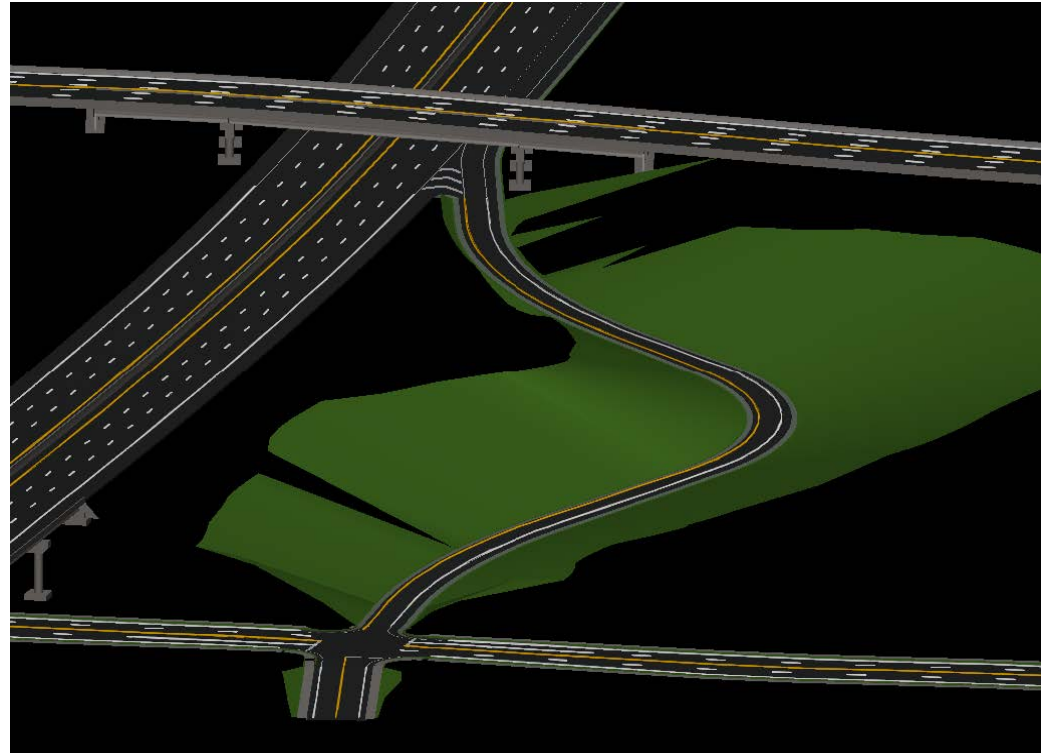


Ramp Design



Concept Station – and its challenges...

- Working Beta
- Producing a portable visualization.
- Plan Production



I-83 Section 3 Flythrough Video



I-83 Section 3



Concept Station – Another Tool in the Box

- Use During Visionary or 10% Design
- Efficiently Proof-test Concepts
- Understand Program Limitations
- Public Communication