Un-Corridor Modeling

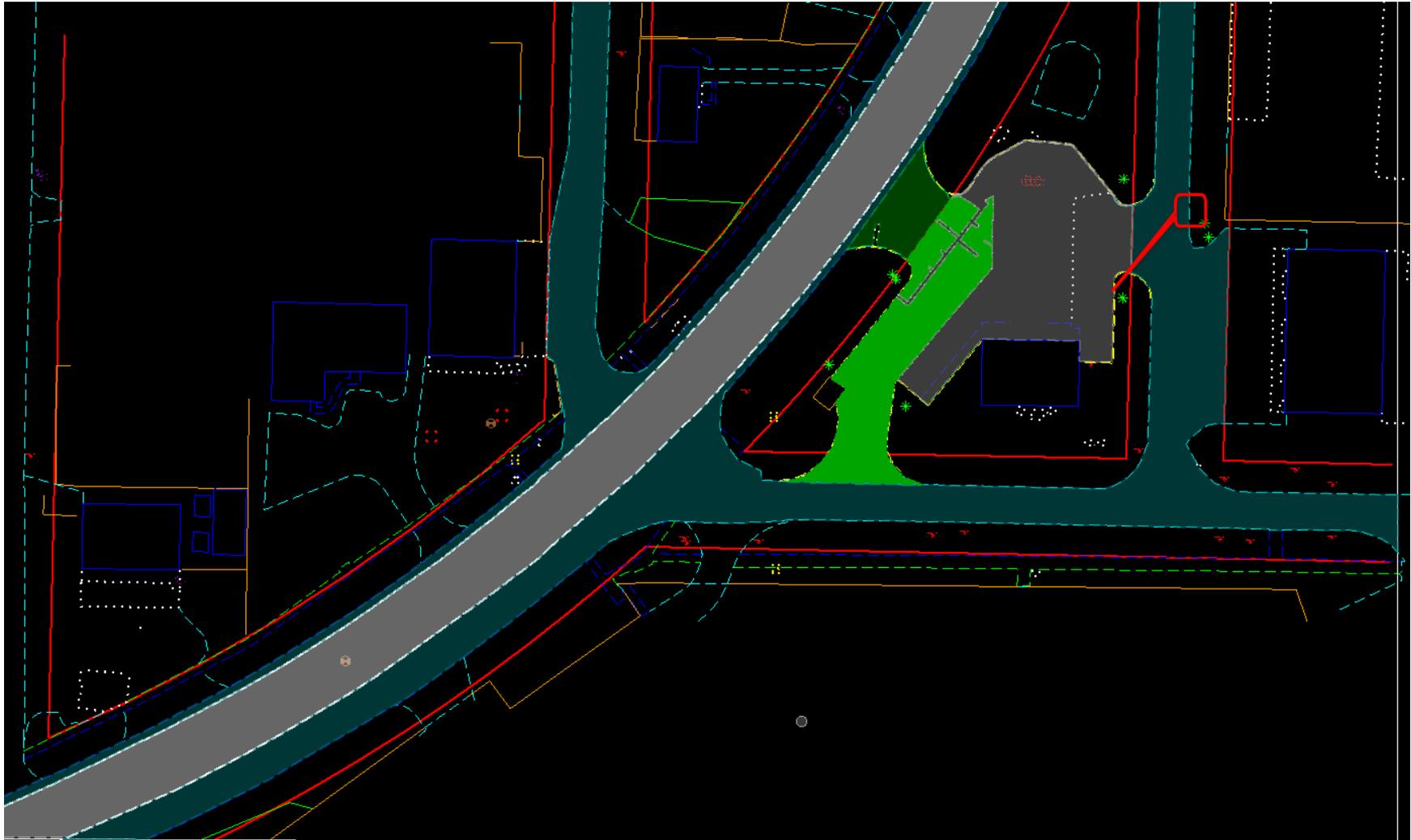**Vern Danforth, P.E.**
FDOT Engineering/CADD Systems

Description

- In this session we will discuss other methods for creating a model using FDOTSS4 OpenRoads Technology tools when design details are not easily modeled with traditional templates along a centerline corridor.
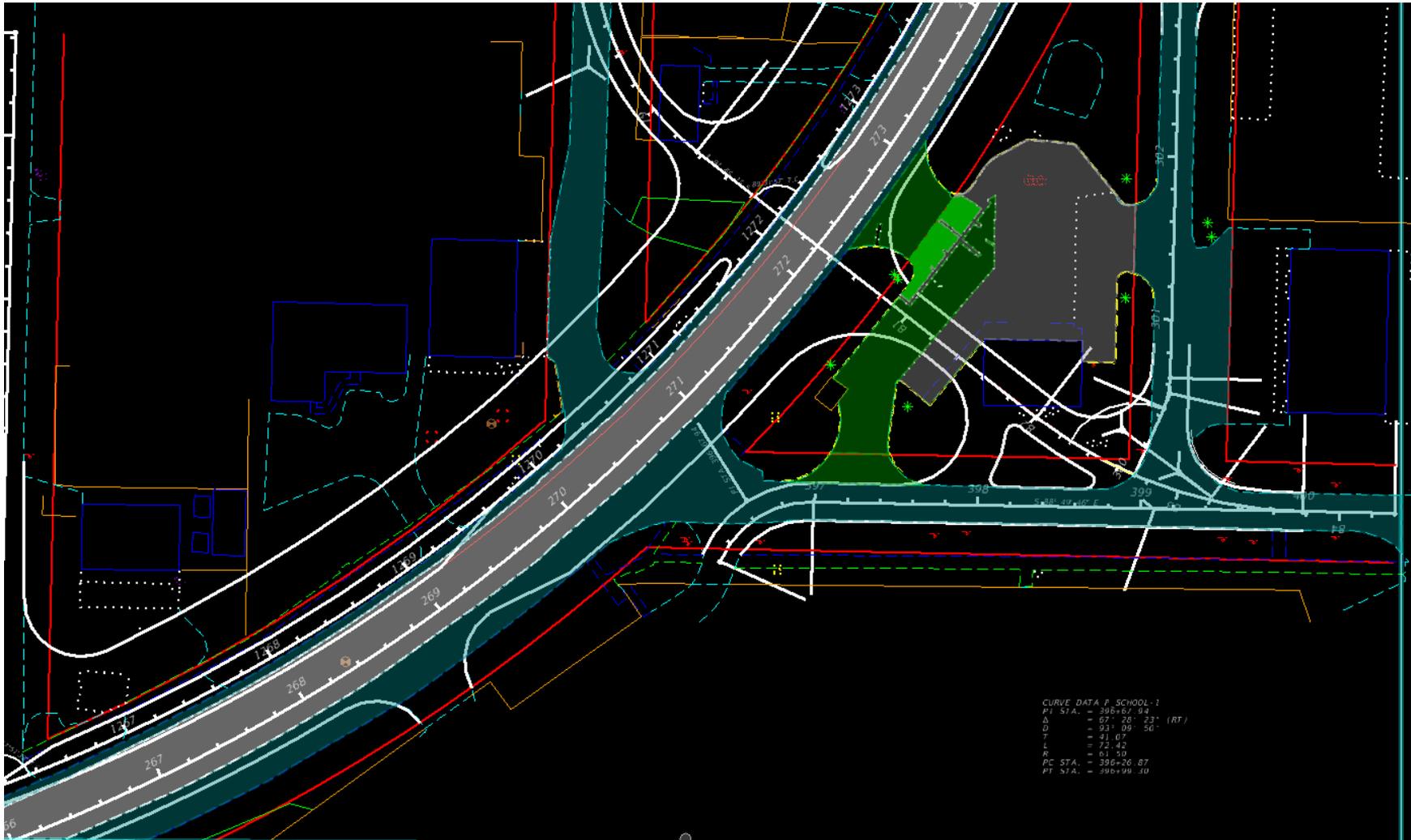- Including Terrain quantites for earthwork and other pay items.

Basic Steps

- Copy PavementAsphalt_ep to active file
- Topo Ref off
- Construct saw cut lines offset from PavementAsphalt
- Create Existing Pavement terrain for removal
- Create Profiles on saw cut lines from existing terrain
- Create Profiles by Slope on PavementAsphalt lines
- Create Profiles by Intersection Points on ends
- Create Proposed Terrain from 3D lines
- Add Surface Template with Linear Features On
- Add Linear Templates to Curb Lines and Shoulders
- Make Bottom Mesh from 3D Line work
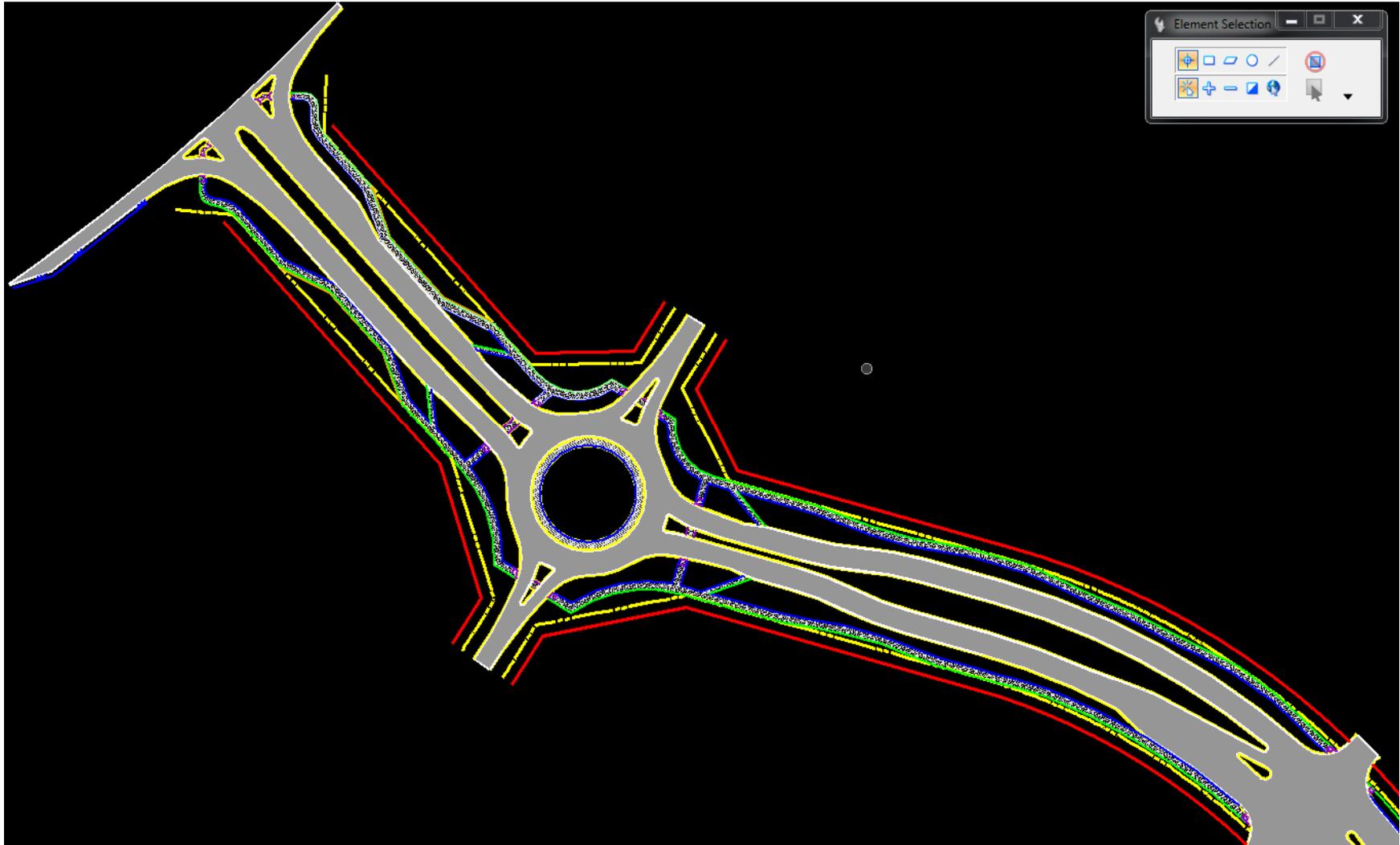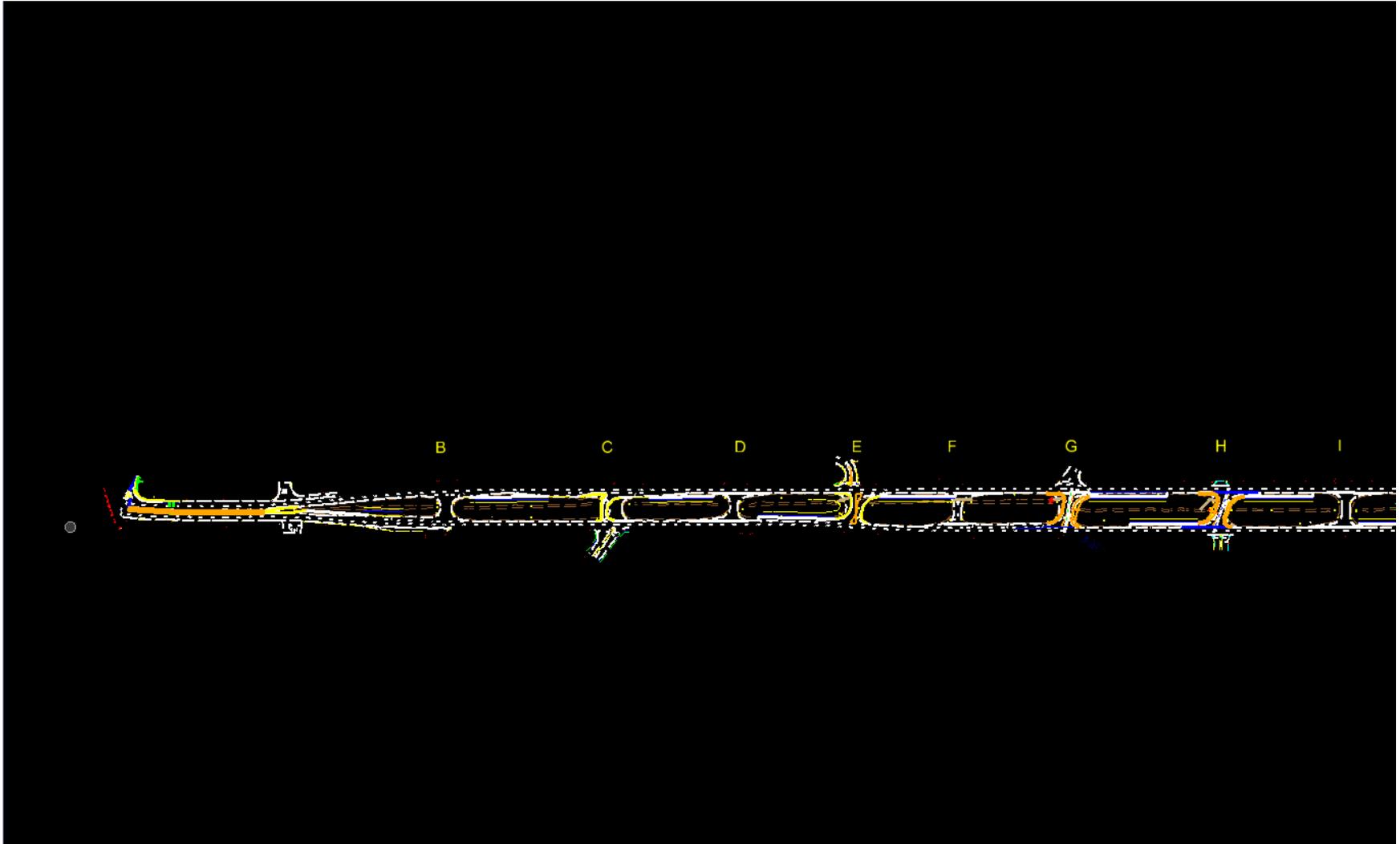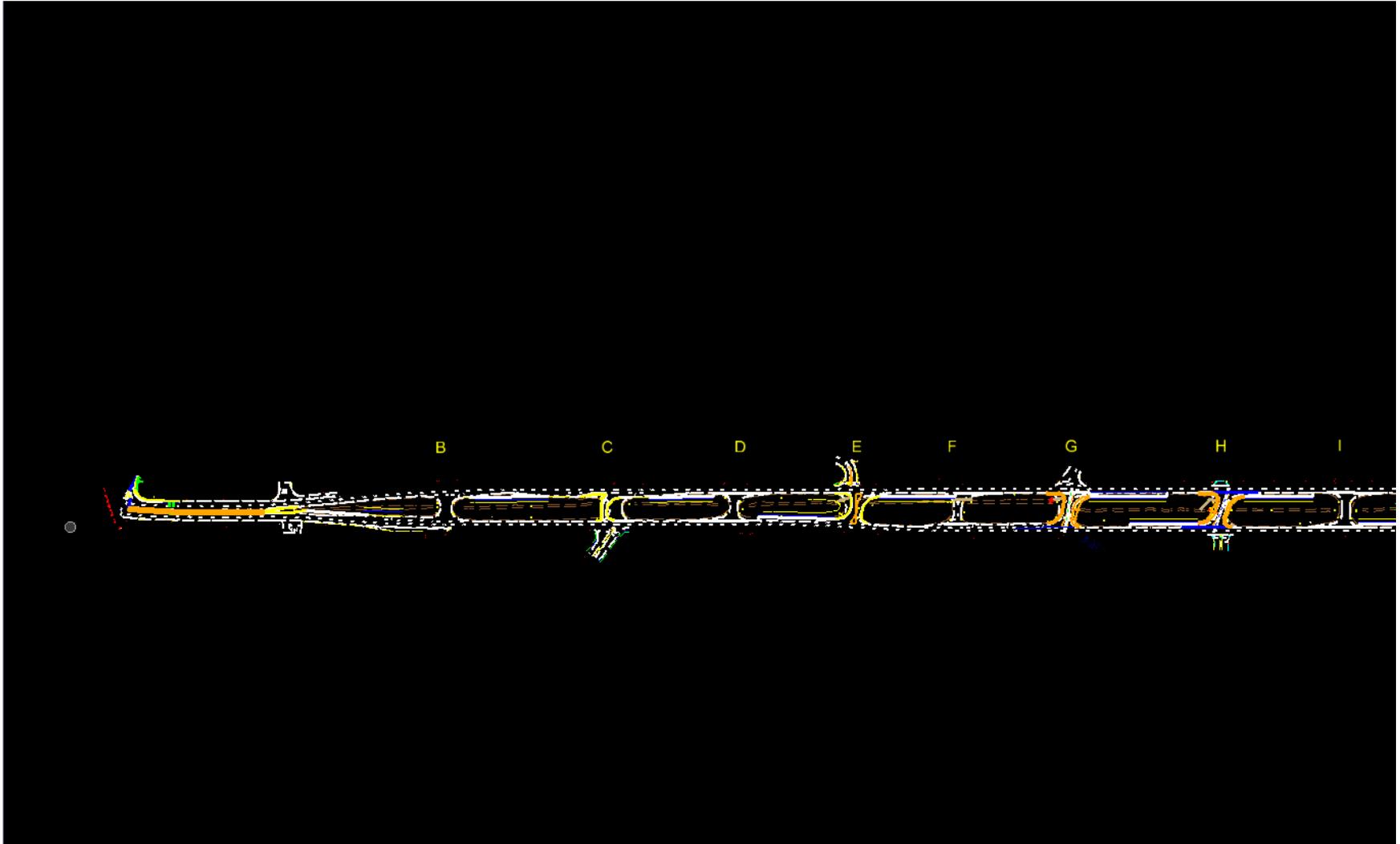- Use Terrain to Terrain to calculate earthwork

Examples:

Examples:

CURVE DATA P SCHOOL-1
PI STA. = 396+67.94
Δ   = 67° 28' 23" (RT)
D   = 93° 09' 50"
T   = 41.07
L   = 72.42
R   = 61.50
PC STA. = 396+26.87
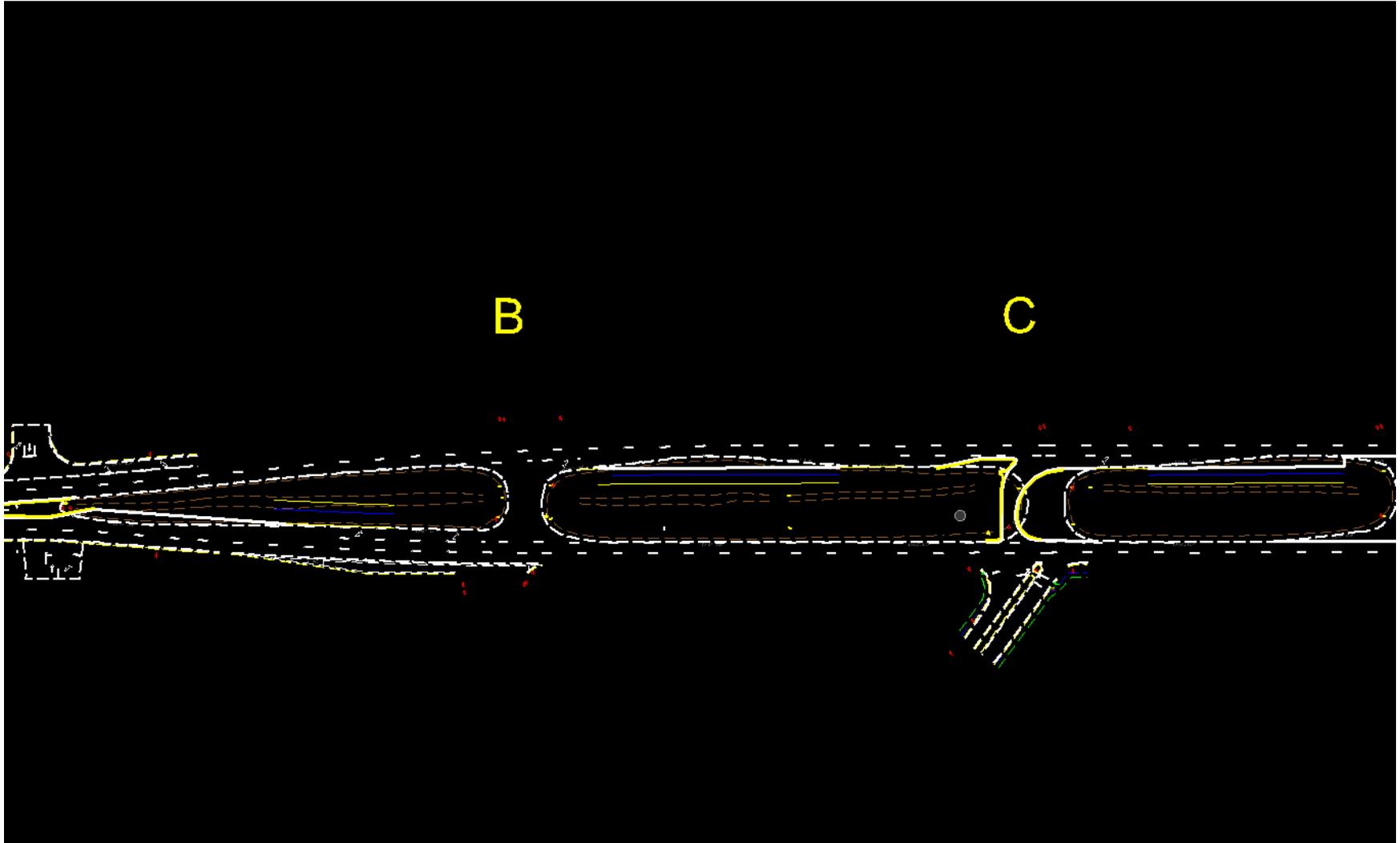PT STA. = 396+99.30

Examples:
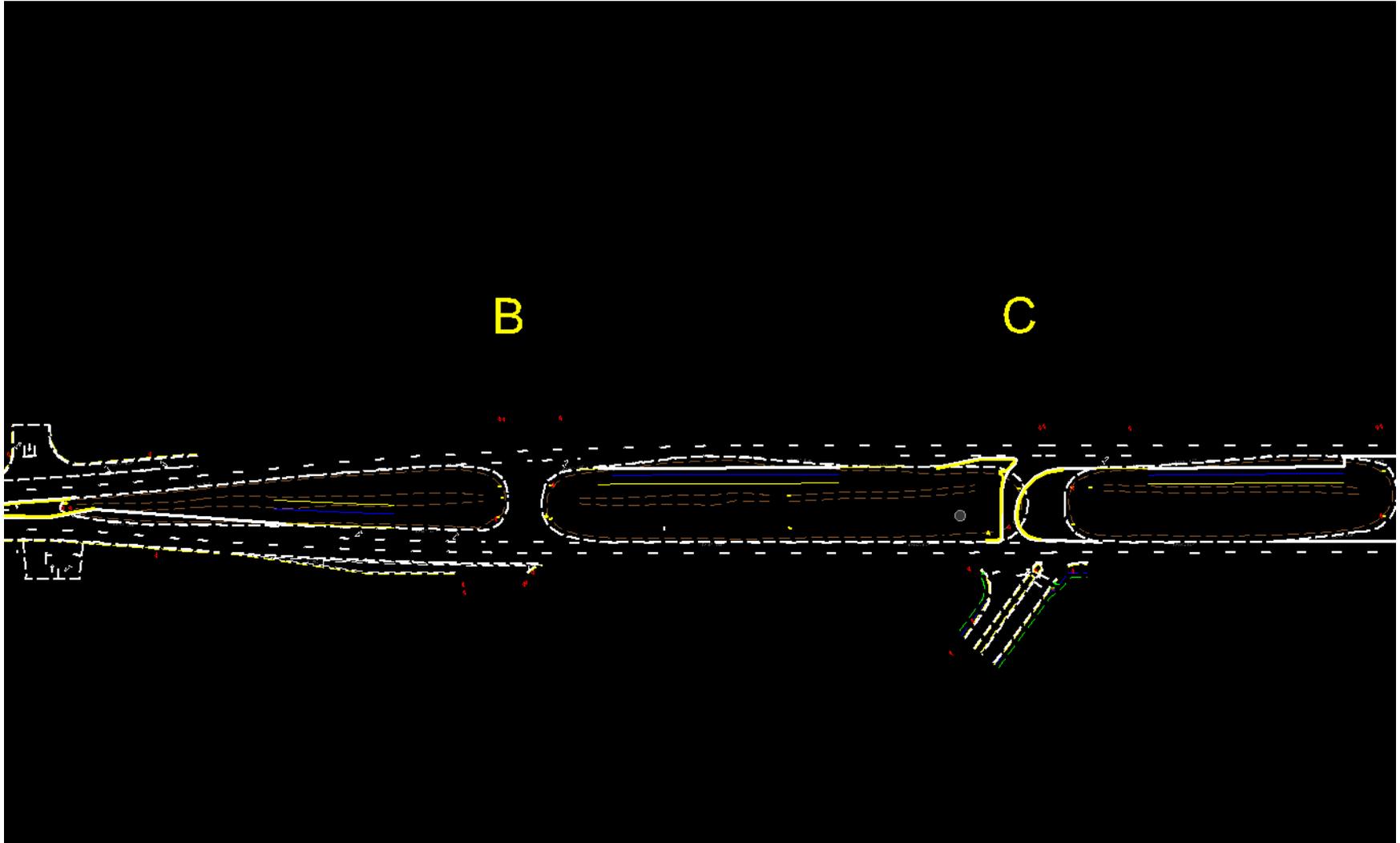
Examples:

Examples:

Examples:

Examples:

Examples:

General Steps

- Develop a CL line through the intersection,
- Construct 2D elements around the perimeter of the intersection,
- Develop/design the profiles for each of the perimeter line,
- Build an intersection terrain boundary using the 3D perimeter elements,
- Add break lines if necessary to the intersection terrain,
- Add surface templates to the intersection terrain,
- Use linear templates along the perimeter edge lines to help transition corridors,
- Use 3D lines to build a Top and Bottom Mesh Surface
- Use Terrain to Terrain to calculate volumes.

Contact Information

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