

*2016 AASHTO Right of Way,
Utilities, Outdoor Advertising Control
& National Alliance of Highway
Beautification Agencies Conference*



Sunday, May 1–Thursday, May 5
Rosen Centre Hotel
Orlando, Florida

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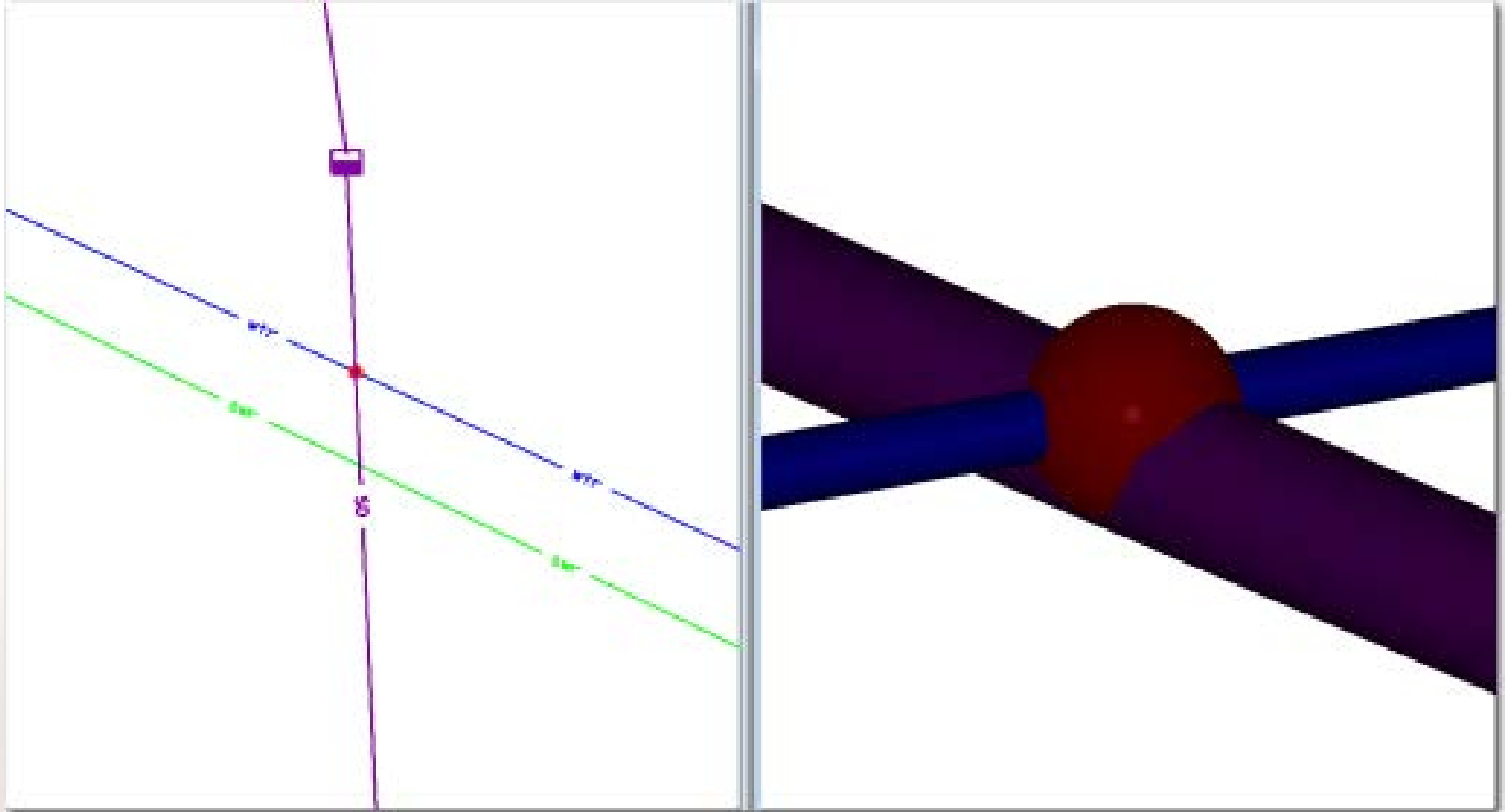
3D Soft Clash - Introduction

- 3D Project Delivery
 - BIM
 - Horizontal design hybrid of 3D and 2D
 - Migrating to 100% 3D delivery
 - Need for higher quality utility data

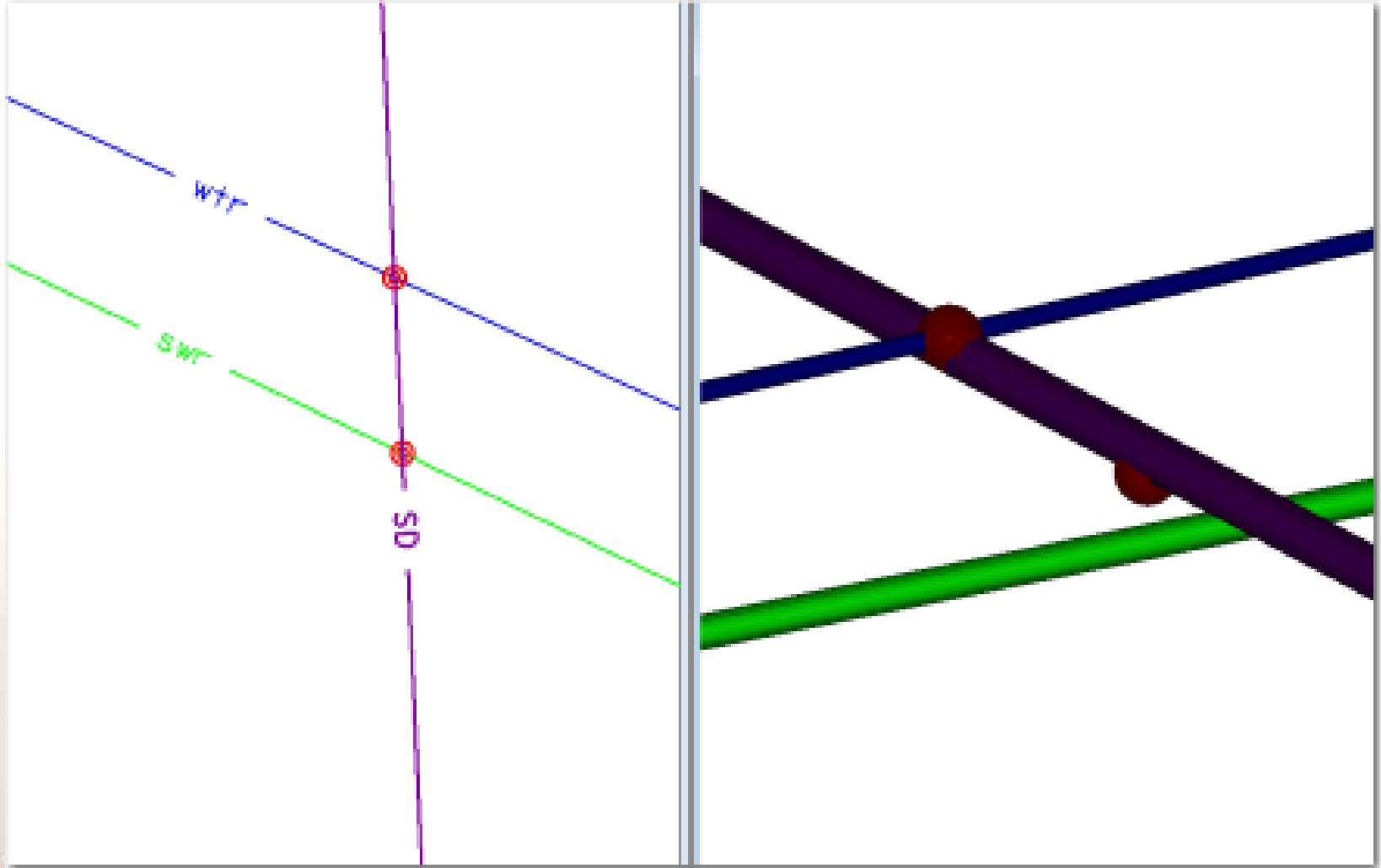
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- Design
 - Accuracy of points and lines
 - QLA vs QLB vs QLD
 - Symmetrical vs Asymmetrical clash zones

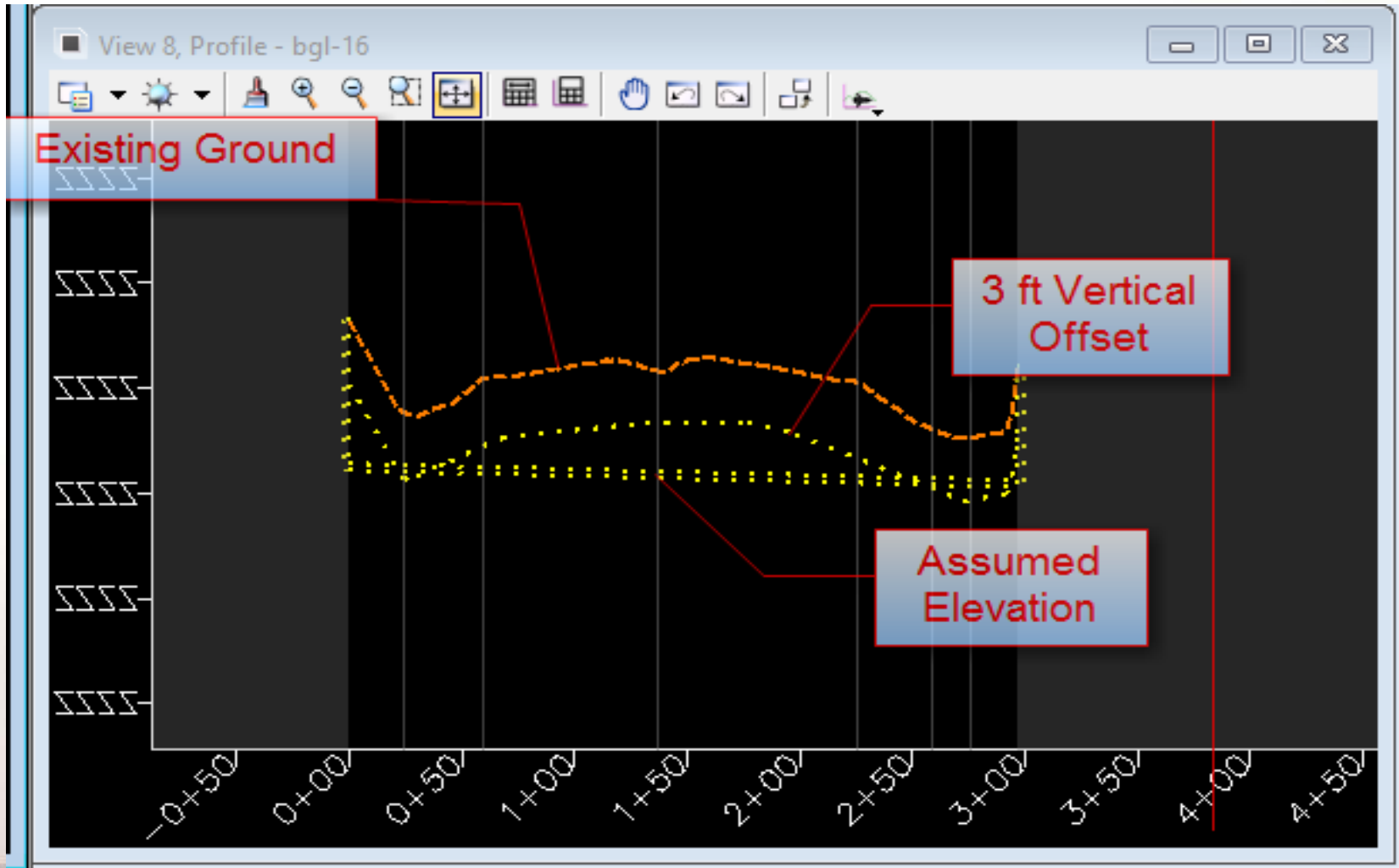
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- What does Soft Clash Mean?
 - Caution zone
 - Near miss
 - Equal to hard clash

3D Soft Clash - Introduction

- 3D defines a soft clash
- Soft clashes need to be understood and managed
- May have the same impacts as hard clashes
- Impacts occur in schedule and cost (4D and 5D)

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