# Detailing Gore Areas in FDOTSS4

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Production Support – CADD Office

# Detailing the Corridor Design

- Intersections
- Traffic separator nose
- Turning Islands
- Driveway and sidewalk ramps
- Curb transitions
- Roundabouts

- MES slope transitions
- Median crown crossover
- Retention pond design
- **Ramp Terminals (Gore areas)**
- Restricted left turn islands

**Gore** (road) A **gore**, **gore** point, or **gore** zone is a triangular piece of land found where roads or rivers merge or split. When two roads merge, the **area** is sometimes referred to as a merge nose.

Gore (road) - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/**Gore**_(road) Wikipedia

# Detail(site) MODELING

**GENERAL WORKFLOW STEPS:**

1. Layout the Baseline Horizontal Geometry
2. Use the Ramp Terminal Civil Cell or build Planimetrics
3. Use Vertical Alignment tools:
    a) Project Slope to Element; PGL to EOP, EOP to BL Ramp
    b) Place Line at Gore End
    c) Construct Reverse Transition Ramp profile
    d) Complex Profile by Elements, Check Design Standards
4. Drop Templates; Main w/ Gore, Ramp, Main2

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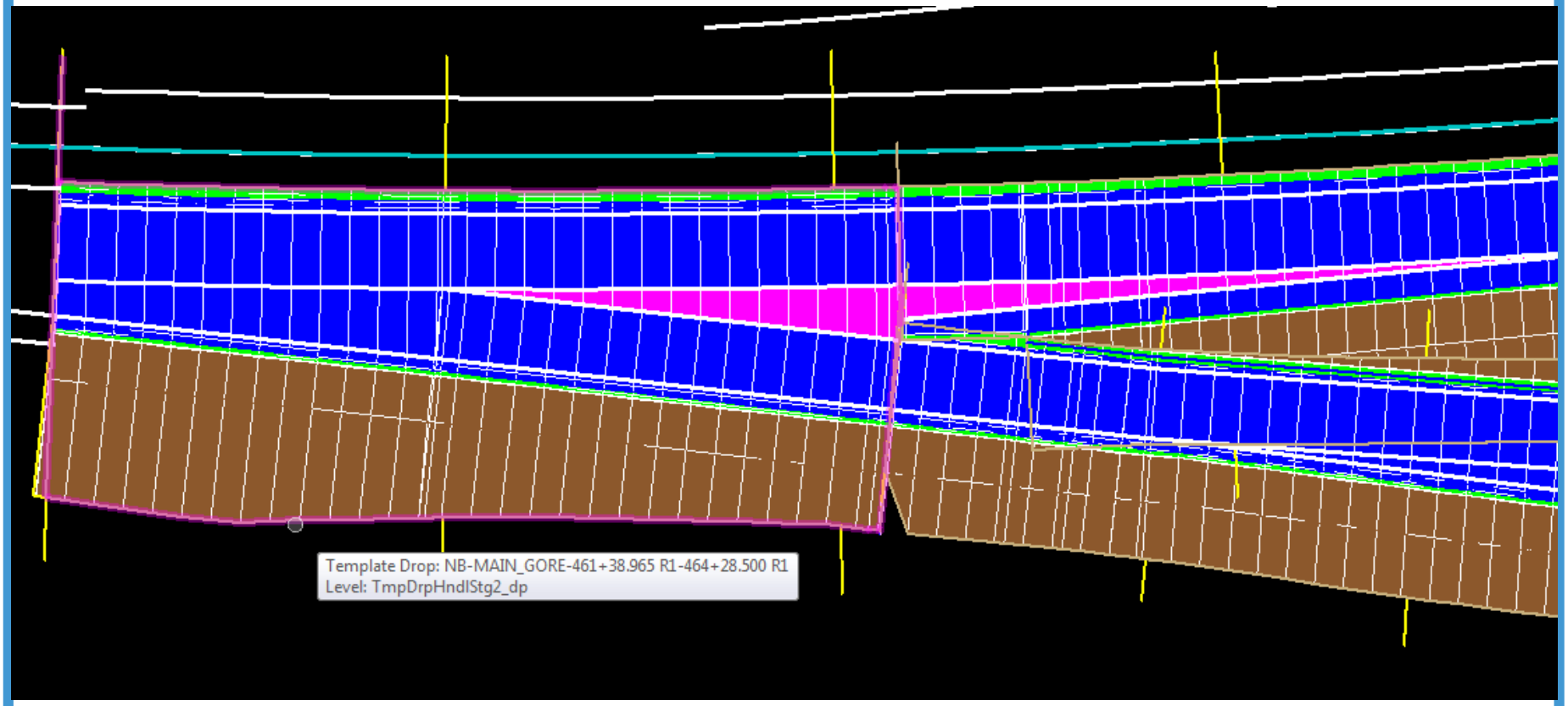
# Detail(site) MODELING

## Plan ahead –Main Corridor; Template Drop Location 1

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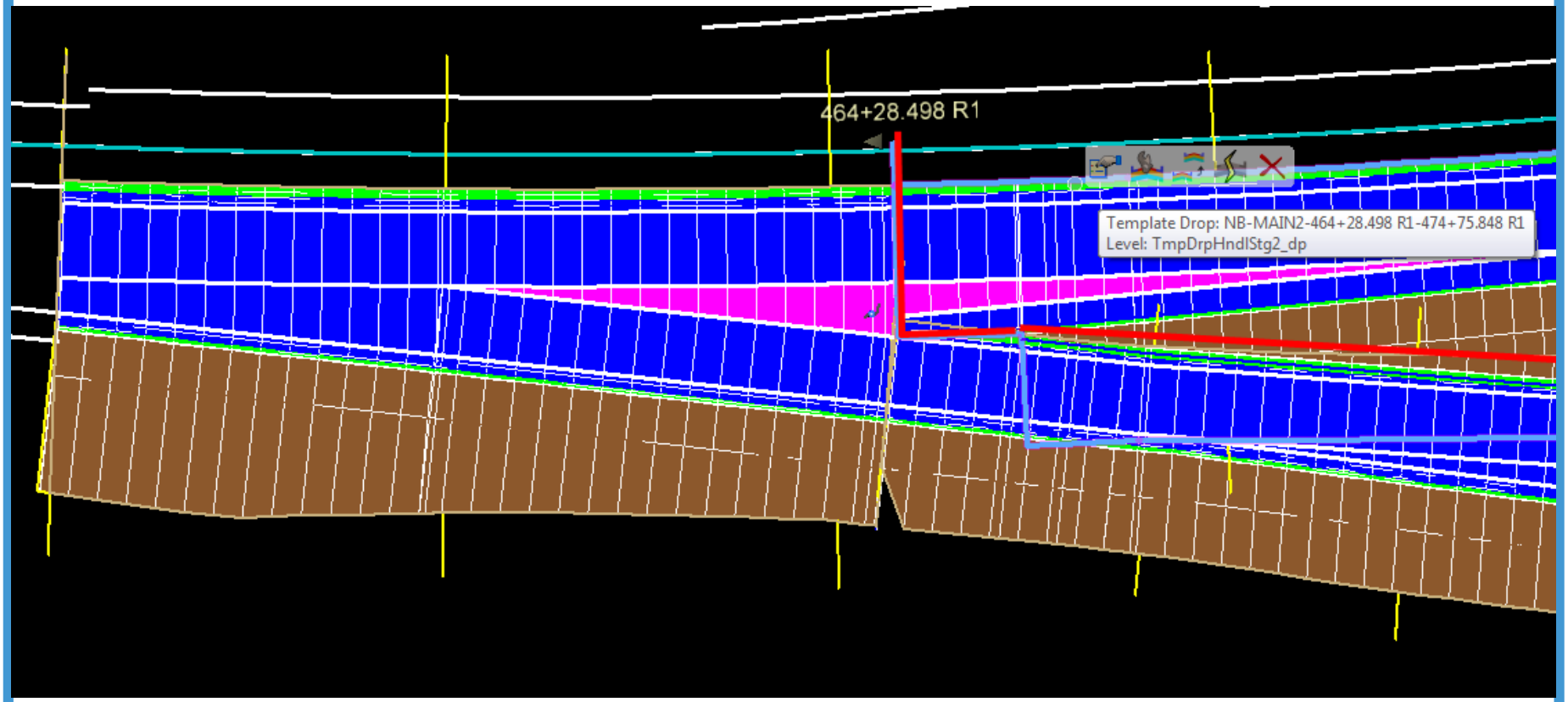
# Detail(site) MODELING

Plan ahead –Main Corridor; Template Drop Location 2

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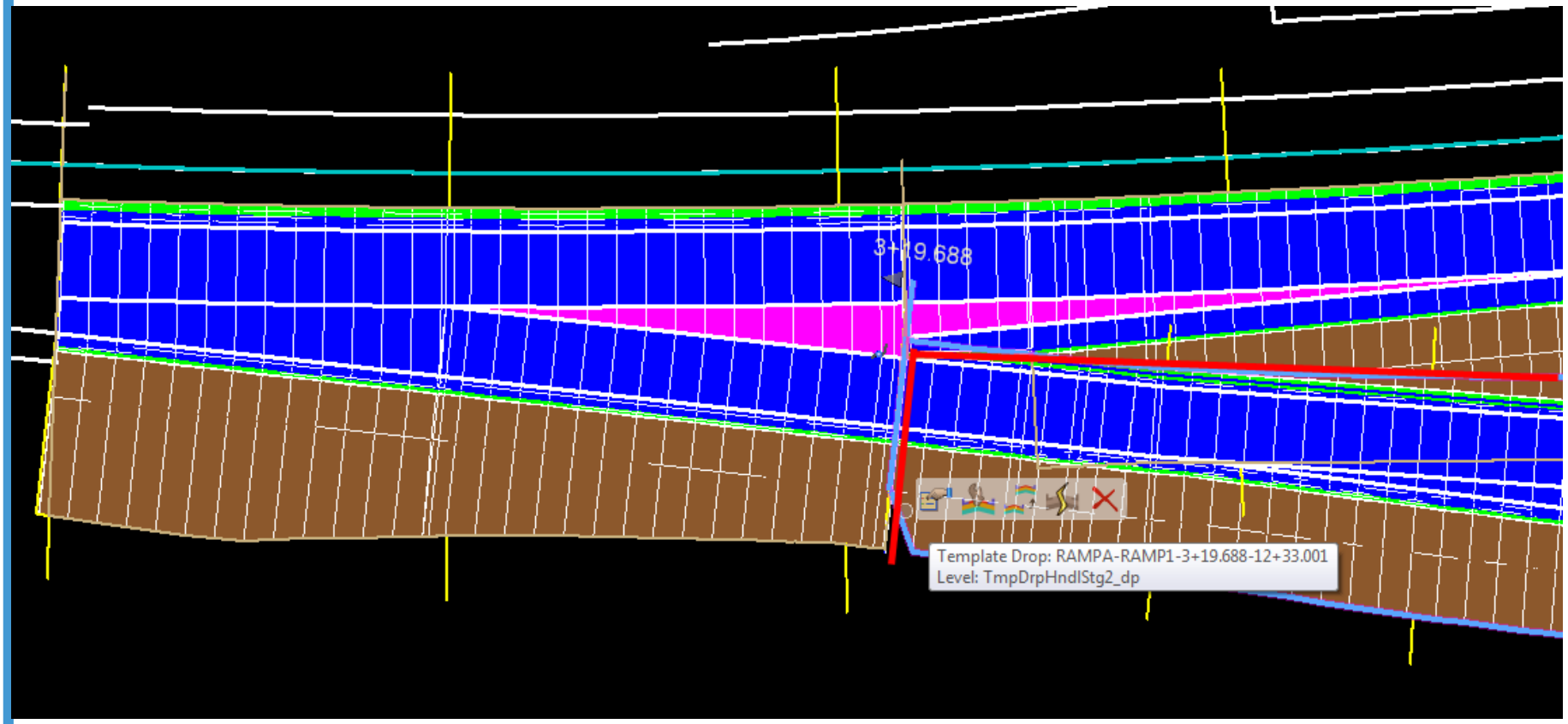
# Detail(site) MODELING

## Plan ahead –Ramp Corridor; Template Drop Location 1

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# Detail(site) MODELING

## GENERAL WORKFLOW STEPS:

1. Add Main Corridor Controls
    a. BL Point Control, Both
    b. RampIn Point Control, Horizontal
    c. Gore Slope Parametric Constraints- optional
    d. Shoulder Width Parametric Constraints
    1. Shoulder Slopes on Ramps

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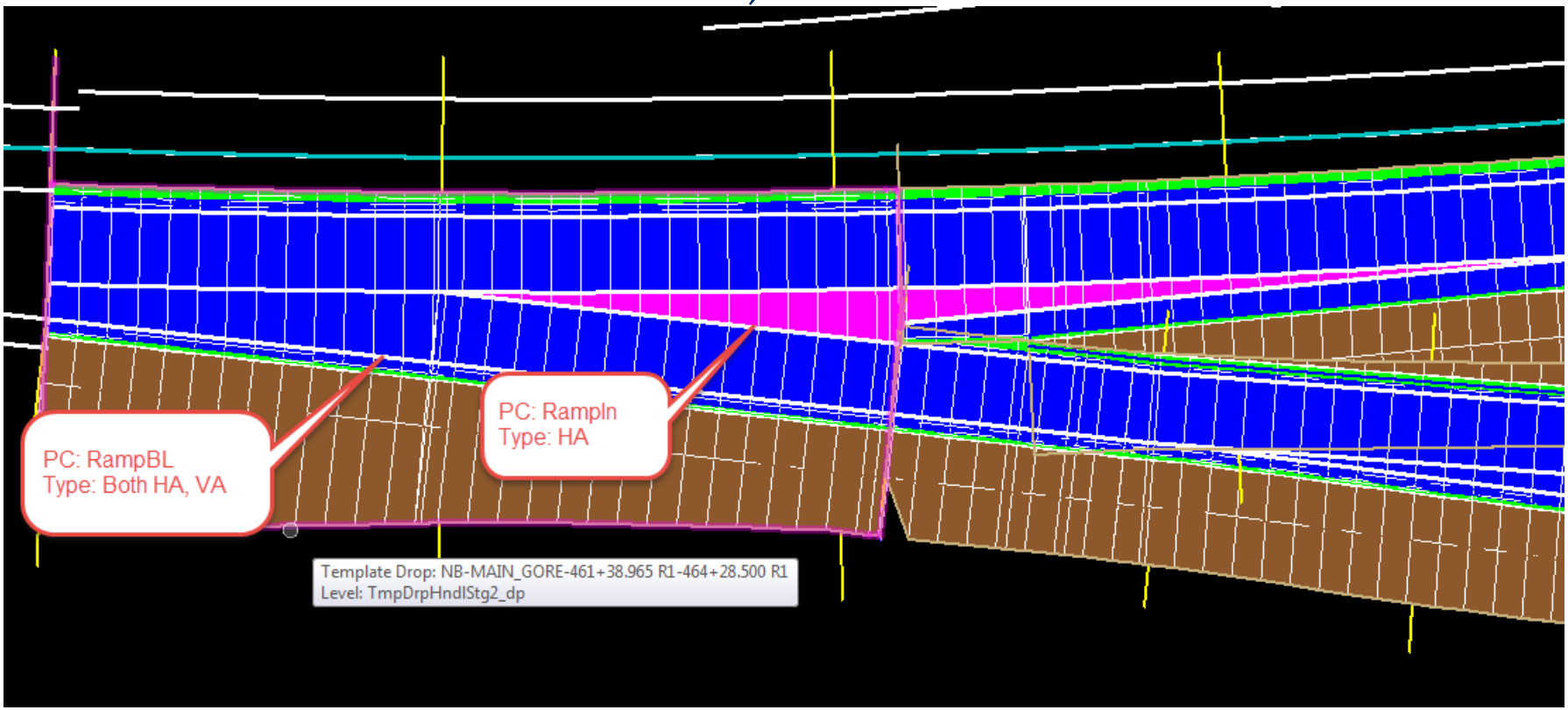
# Detail(site) MODELING

## Corridor Controls–Main Corridor; Point Controls

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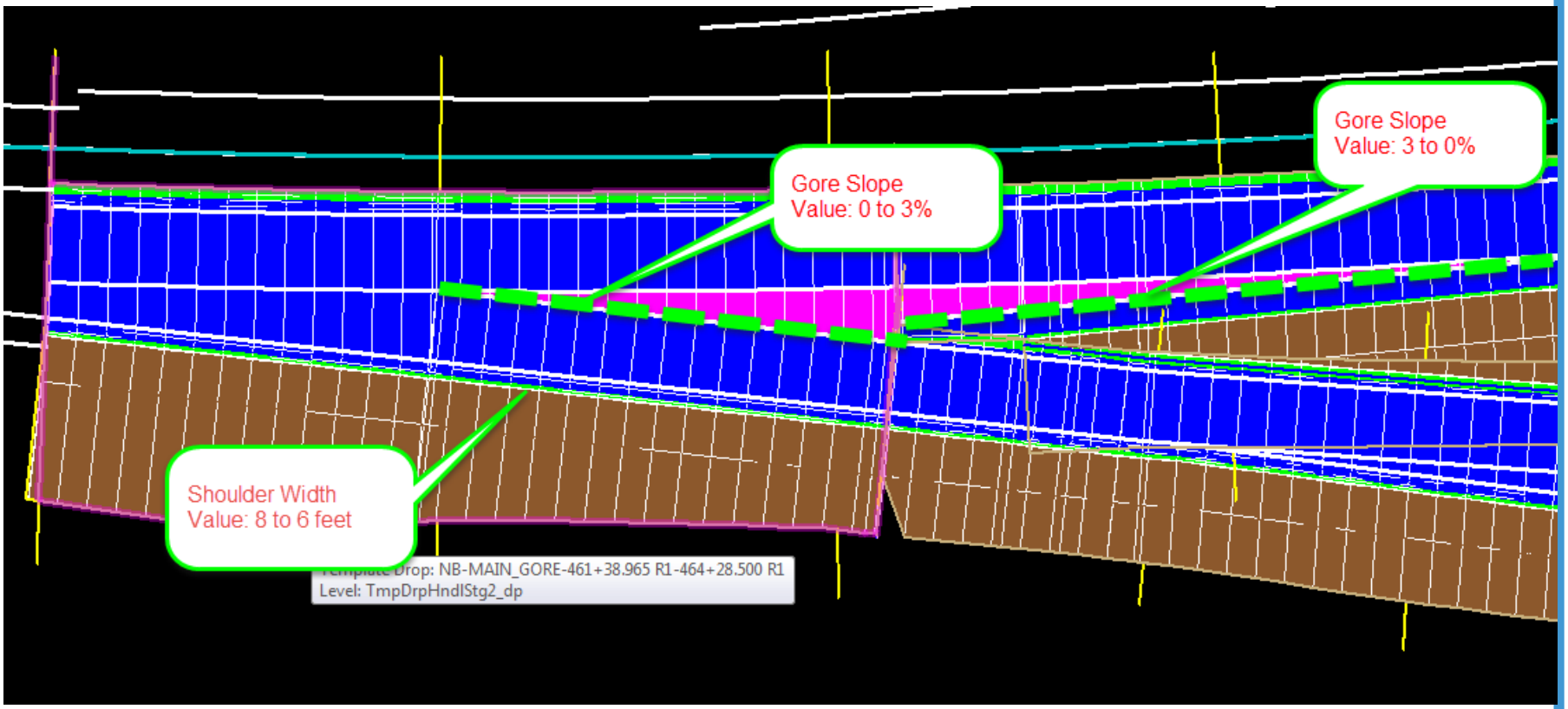
# Detail(site) MODELING

## Corridor Controls–Main Corridor; Parametric Constraints

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# Detail(site) MODELING

## GENERAL WORKFLOW STEPS

2. Add Ramp Corridor Controls
    a. Define Ramp Superelevation
    b. Associate the Profile and Superelevation to the Ramp Corridor
    c. i.e. Ramp EOP Inside Vertical Point Control
    d. Shoulder Width Parametric Constraints
    e. Inside Shoulder Slopes on Ramps

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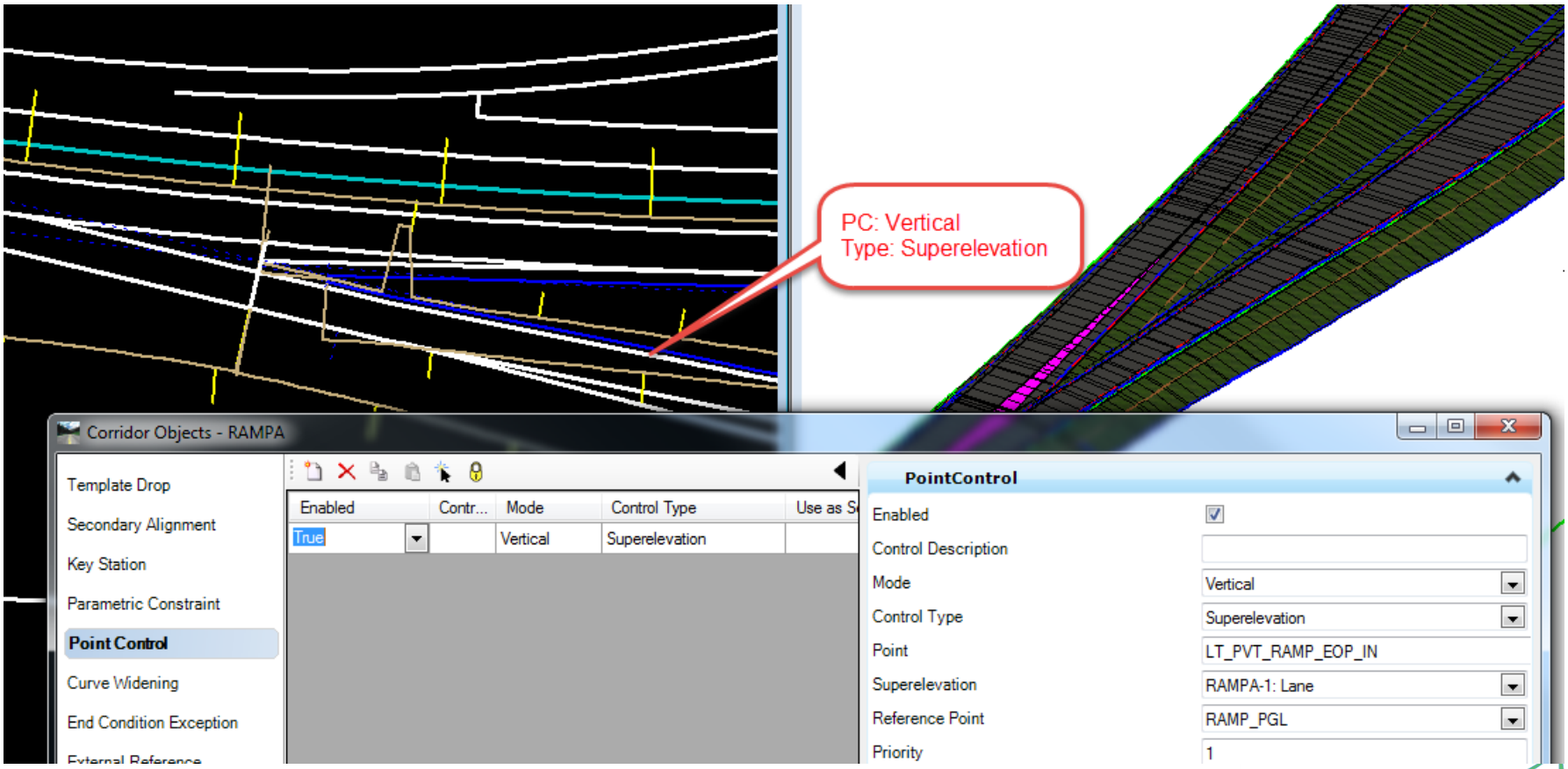
# Detail(site) MODELING

## Corridor Controls–Ramp Corridor; Superelevation

| Superelevation | Name | Station | Curve Set | Cross Slope | Transition Type | Pivot Edge |
|---|---|---|---|---|---|---|
| Lane | Lane - 0+00 | 0+00.000 | | 3.000% | Linear | Right Edge |
| Lane | Lane - 3+05 | 3+04.652 | | 3.000% | Linear | Right Edge |
| Lane | Lane - 4+49 | 4+48.576 | | 0.000% | Linear | Right Edge |
| Lane | Lane - 5+93 | 5+92.500 | | -3.000% | Linear | Right Edge |
| Lane | Lane - 6+82 | 6+83.652 | | -4.900% | Linear | Right Edge |

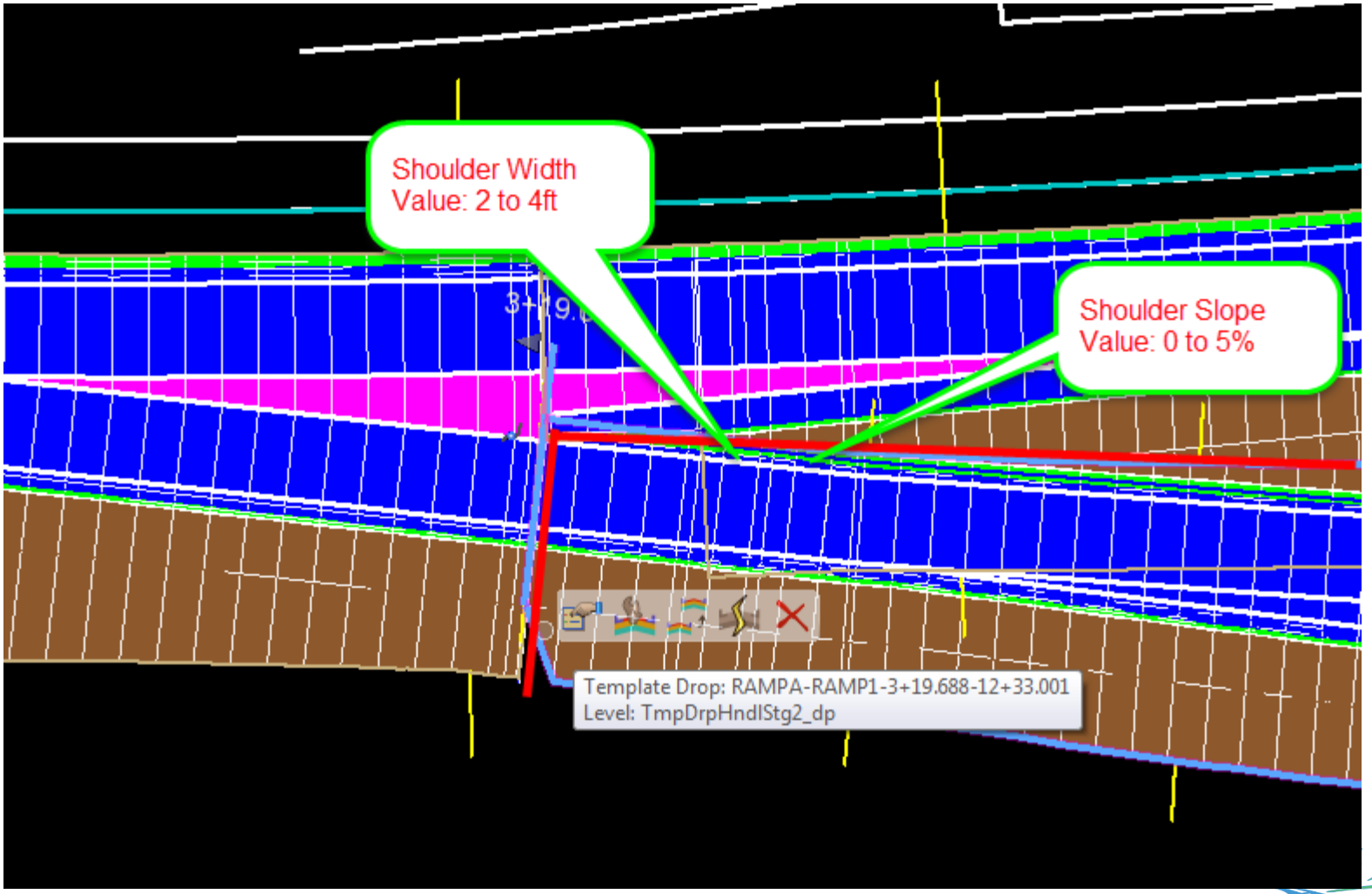
# Detail(site) MODELING

## Corridor Controls–Ramp Corridor; Superelevation



# Detail(site) MODELING

## Corridor Controls–Ramp Corridor; Parametric Constraints

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# Detail(site) MODELING

## GENERAL WORKFLOW STEPS

3. Add Mainline Corridor Controls
    a. Assign Ramp Superelvation Vertical Point Control to Main w/ Ramp Corridor
    b. Add Horizontal Feature or PC Ramp2 Corridor Controls

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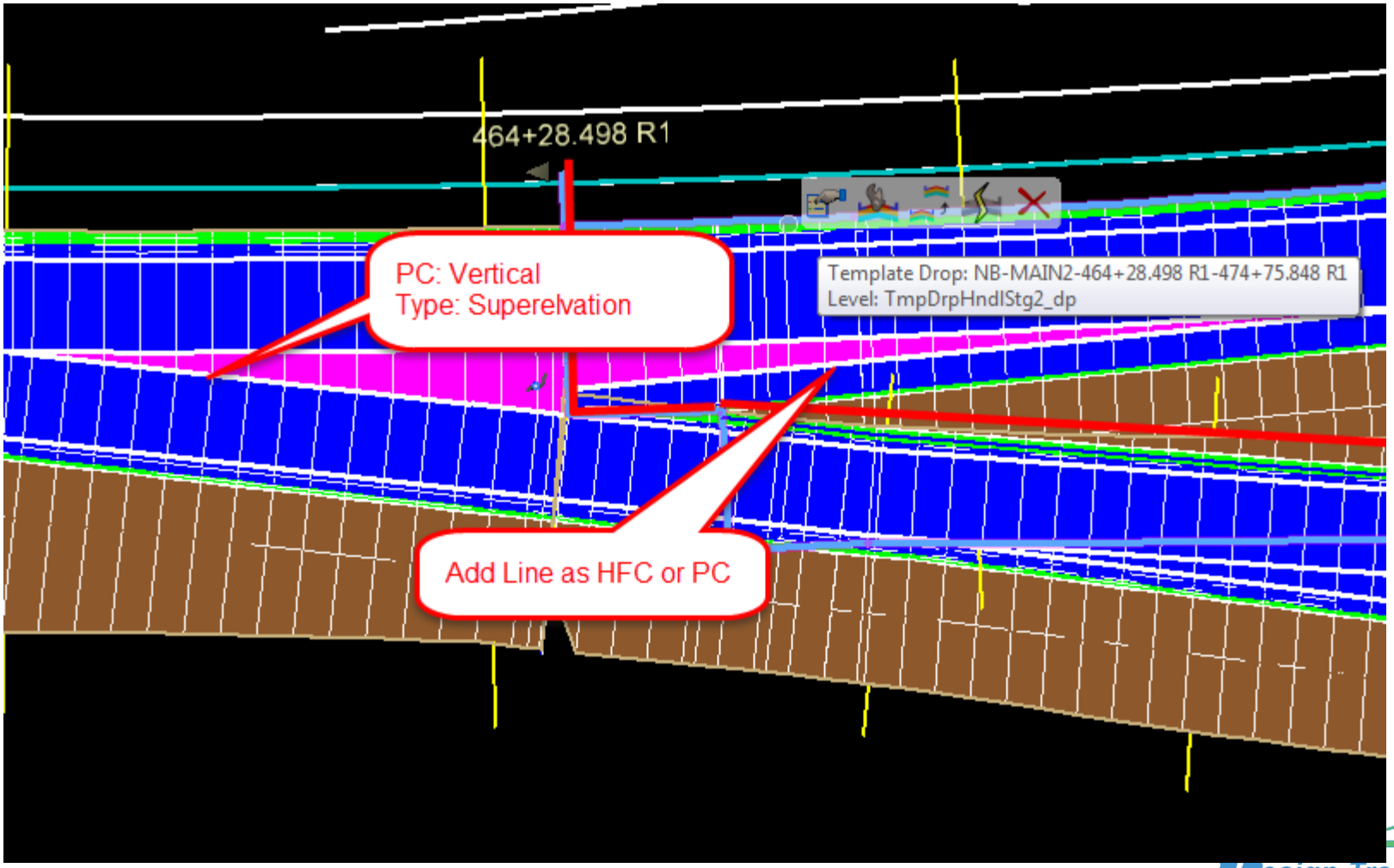
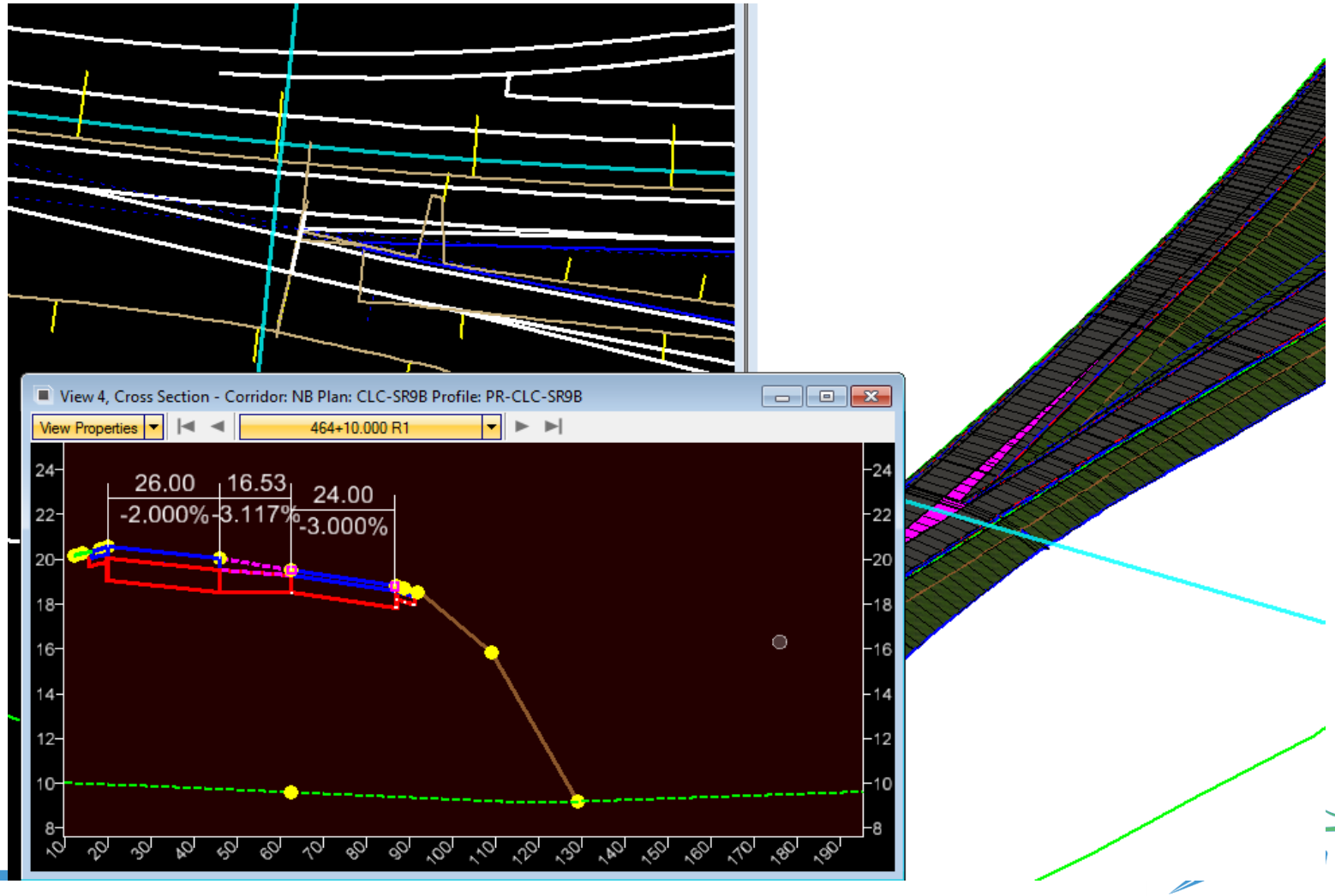
# Detail(site) MODELING

Plan ahead –Main Corridor; Template Drop Location 2



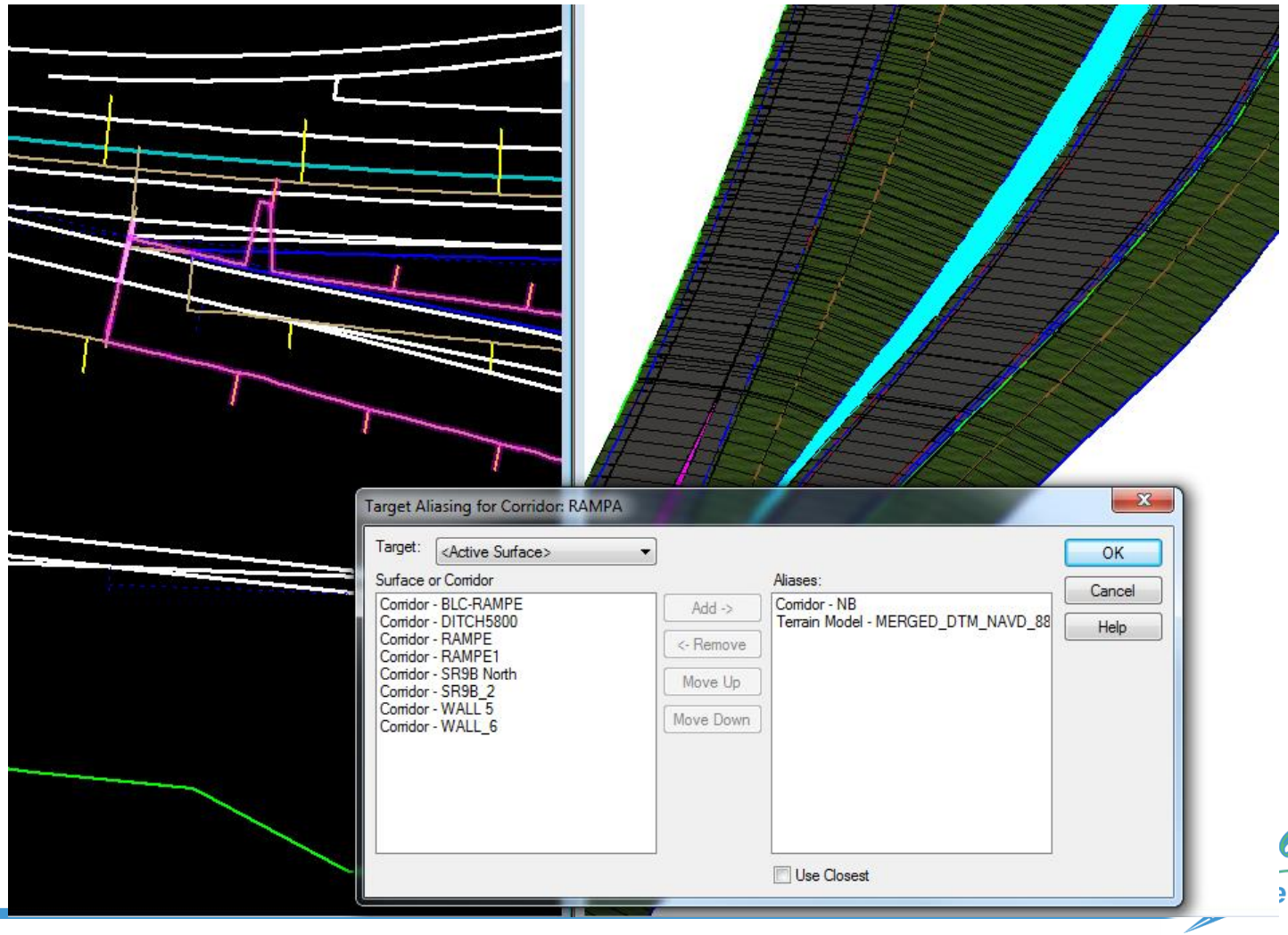
# Detail(site) MODELING

4. Use Cross Section Viewer to verify design



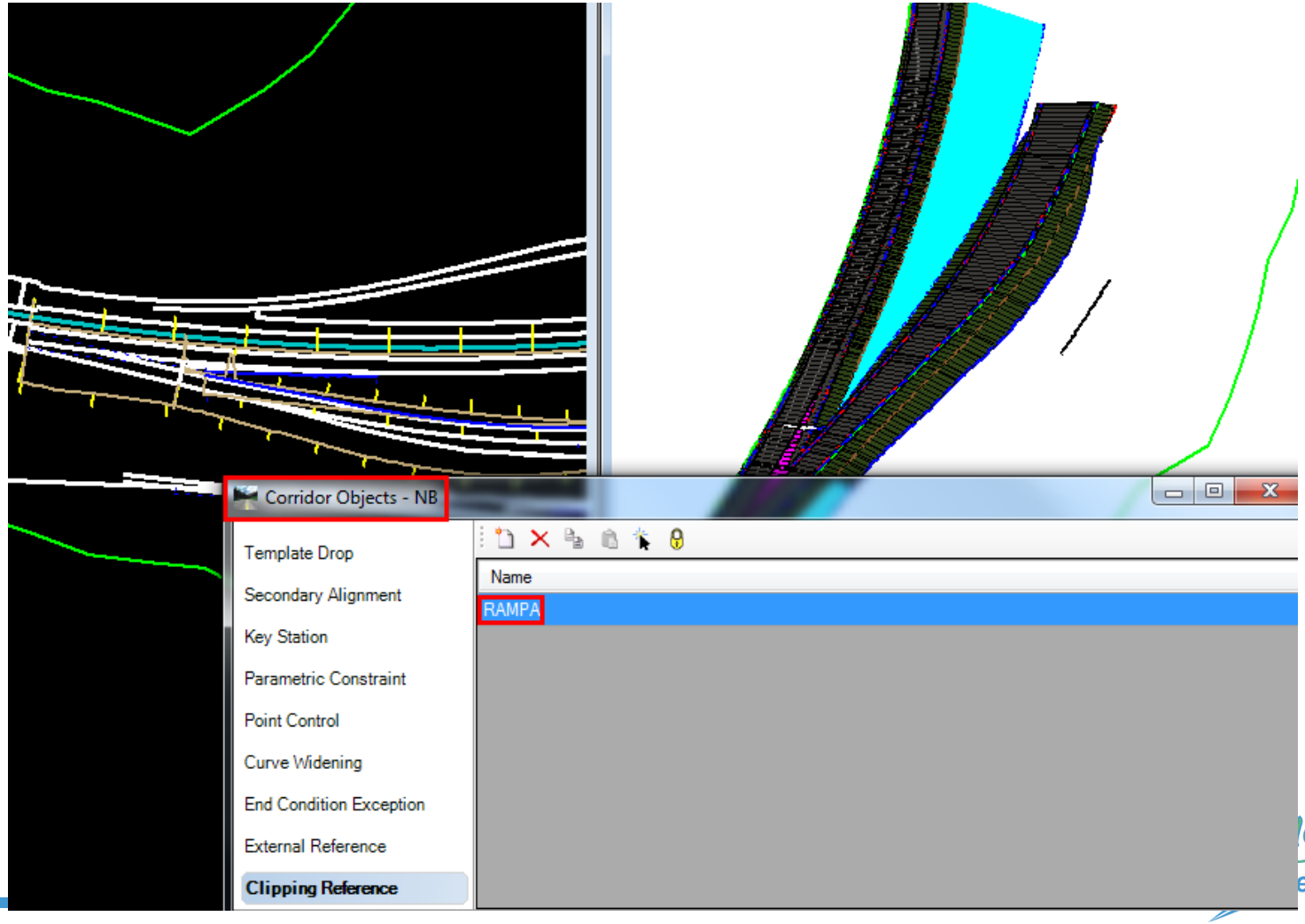
# Detail(site) MODELING

## 5. Add Target Alias to RampA Corridor , Main



# Detail(site) MODELING

6. Add Corridor Clipping Reference o Main, RampA



# Questions and comments

Thank you for attending !

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