- 2. (4) Matchline on the minor road:
 - Set Feature to Modeling-Seam_Line

Case 1: Tie to Connection Road Corridor

- Draw matchline (4) at the station (perpendicular to connection baseline) where you want to begin to warp for the intersection (at least back of radial return).
- End your template drop on the connection at this station. The template drop may need to be slightly past this station to get a profile (next step). Zoom way in to see.
- Generate profile using "Quick Profile from Surface", selecting the connection corridor, and set as active profile (same as (1) & (2) above).

Case 2: Tie to Existing

- Draw matchline (4) at your pavement tie point (end of construction). This does not really have to be perpendicular to the connection baseline.
- Set existing ground (the Active Terrain Model) as the Active Profile.

3. (6) Connection Baseline:

- Unfortunately, line **(6)** cannot be the actual connection baseline, but needs to be trimmed to just the intersection area (see figure above).
- Use Single Offset Partial to copy the connection baseline. Set offset to zero, and snap to your matchlines (1) & (4) for your begin and end stations.
- Use Project Profile to Element to project the connection baseline profile to the partial baseline you just created and set as the Active Profile.
- 4. (3) & (5) Radial Returns (EPs in intersection):
 - Radial returns (3) may be simple curves, compound curves, or tapered curves.
 - It may include linear sections (5) along the mainline (for warping when not adjacent to thru lanes) or along the connection (to avoid using a corridor, or tie into a corridor further down).

• Horizontal:

Option 1: Draw using traditional linework and featureize.

Option 2: Use the Simple Arc, Taper Arc Taper, or 3 Center Arc tool to create the radial returns. This way, the returns will update automatically if the corridor changes.

Option 2B: Use Arc to Element or Simple Arc to Element if the tie in is in the middle of the return.

- Use "Complex by Elements" to add (3)s and (5)s to a single chain for each return.
- Trim the mainline/connection EPs and roadside as necessary. Do not trim EPs for driveways.