

Potential Issues to Look for When Reviewing As-Built Drawings and Field Conditions

Review as-built drawings and field conditions for conflicts. Examples of conflicts to identify are as follows:

1. For post tensioning:
 - a. Take note of the path of prestress tendons in existing bridges for conflict with any connections to be drilled into existing girders.
2. For clearance to bridge mounted signs:
 - a. Be aware of any bridge mounted signs and make sure the layout for the supply line allows for adequate space for mounting hardware and clearance to avoid any reduction of visibility and vertical clearance for signage.
3. For intermediate diaphragms:
 - a. Note the existence of any intermediate diaphragms on existing bridges that can interfere with the layout of the supply line.
4. For existing bridges with a shallow superstructure:
 - a. Be aware of how a shallow superstructure depth can limit space for both the layout as well as required edge distances for mounting hardware.
5. For field quality of existing concrete:
 - a. Inspect the bridge in the field to assess the quality of the concrete to which the supply line will be attached. The quality and age of the concrete can greatly affect the effectiveness of mounting hardware. Low quality/very old concrete can spall unexpectedly when drilled into.