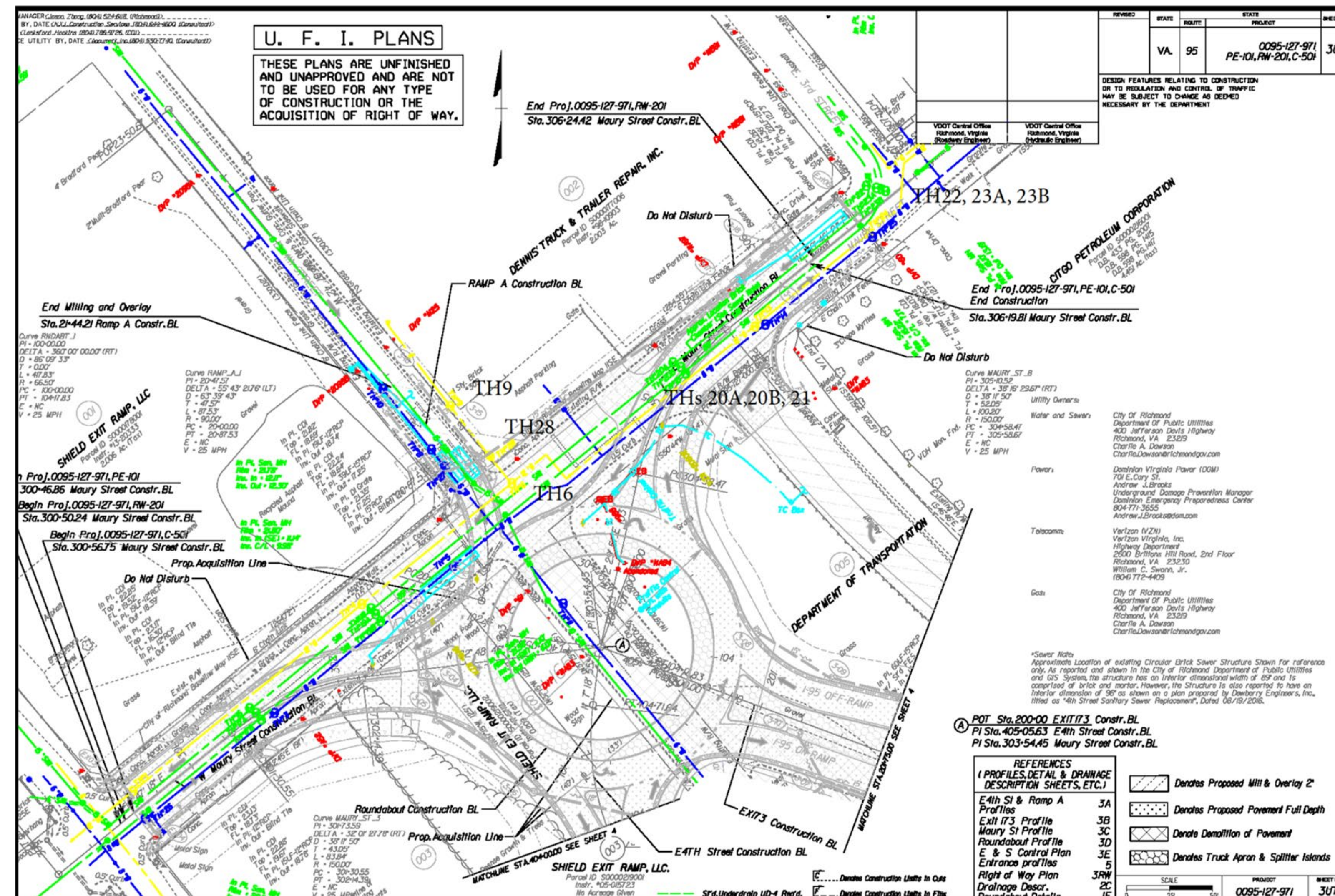


Utility Conflict Resolution

Utility Coordination | Locating Above/Below Horizontal / Vertical Conflicts



Utility investigations characterize subsurface and above ground utility installations at different quality levels.

- Quality Level A (QLA)
- Quality Level B (QLB)
- Quality Level C (QLC)
- Quality Level D (QLD)

- ### Utility Impacts on Design
- ✓ Proposed structures that conflict with existing utilities
 - ✓ Unknown critical relocations
 - ✓ Design change orders during construction to deal with unanticipated utility conflicts

- ### Utility Impacts on Construction
- ✓ Construction change orders
 - ✓ Injuries and damages due to utility strikes
 - ✓ Cost and schedule overruns due to unanticipated issues
 - ✓ Coordination with owners

Common utility-related issues:

- ✓ Utilities marked for construction and not mapped early
- ✓ Incorrect utility locations on records and plans
- ✓ Unknown utilities in the project area
- ✓ Coordination and negotiation with utility owners