Utility Accommodation during Bridge Reconstruction

(Hold in place in lieu of relocation)
Why do “hold-in-place”?

- Saves time
- Saves money
Is every project eligible for “hold-in-place”?

- No
- Several factors must come into play
Saves time

• We don’t hold up the bridge installation waiting for cables to be spliced.
• Splicing can take 4 to 12 months and longer if a storm like Katrina hits.
• Normally, hold-in-place takes 2 to 4 weeks to get cable out of the way.
Saves money

• Splicing cable is expensive because of how long it takes. Jobs can have over 20 copper cables, each pair of wire has to be cut over one by one.

• If they have fiber optic cables most of them have to inform each customer separately before hand to warn them about cutting over the cables such as hospitals, businesses and financial companies. The splicing itself is all done at night, again time consuming and very costly.
How to determine if it is feasible

- Determine where the manholes are and how the cable runs across the bridge.
- Determine how much slack is needed to slide the conduit. Normally the utility will inform us of how much slack we can get.
- Review as-built prints along with the new design to determine if we can economically do the job.
Drawbacks

• Contractors can be costly if they don’t know your concept and plan.
  — Important to have good design and constructability procedure involved in design and implemented into construction contract.

• Need approved utility contractors to handle utility cable. Most General Contractors do not want to touch utility cables.
  — Our company is one of the lucky ones who is approved to handle Verizon’s cable.

• Must have slack.
Examples

• The following jobs are a small sample of turn-key operations we’ve handled.

• Most of them are from start to finish “snapshots” and should give you a good idea of what is involved.
Revere, Ma
Revere, Ma
Revere, Ma
Revere, Ma
Revere, Ma -- Lead cable
Revere, Ma
Revere, Ma -- Bridge removed
Revere, Ma -- Bridge finished
Bloomfield, NJ -- Design
Bloomfield, NJ -- Transite (Asbestos)
Bloomfield, NJ -- Electric conduit held in place
Bloomfield, NJ -- New bridge in place
Oswego, NY
Oswego, NY
Oswego, NY
Oswego, NY
Oswego, NY
Oswego, NY -- Conduits now held
Oswego, NY
Oswego, NY
Oswego, NY

The 12’ slide
Oswego, NY -- The 12’ slide
Oswego, NY -- The 12’ slide
Oswego, NY -- The 12’ slide
Oswego, NY
Oswego, NY
Worcester, Ma
Worcester, Ma
Worcester, Ma
Worcester, Ma
Worcester, Ma
Jenkintown, Pa
Jenkintown, Pa
Jenkintown, Pa
Jenkintown, Pa
Jenkintown, Pa
Jenkintown, Pa
Jenkintown, Pa
Jenkintown, Pa
Jenkintown, Pa -- Sliding cable over
Jenkintown, Pa
Jenkintown, Pa
Chicopee, Ma
Chicopee, Ma
Chicopee, Ma
Chicopee, Ma
Chicopee, MA
QUESTIONS? COMMENTS?

THANK YOU!

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