

# SRRTEP - Western Committee ComEd Supplemental Projects

May 22, 2020

# Needs

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

**Need Number:** ComEd-2020-009

**Process Stage:** Need Meeting May 22, 2020

**Project Drivers:**

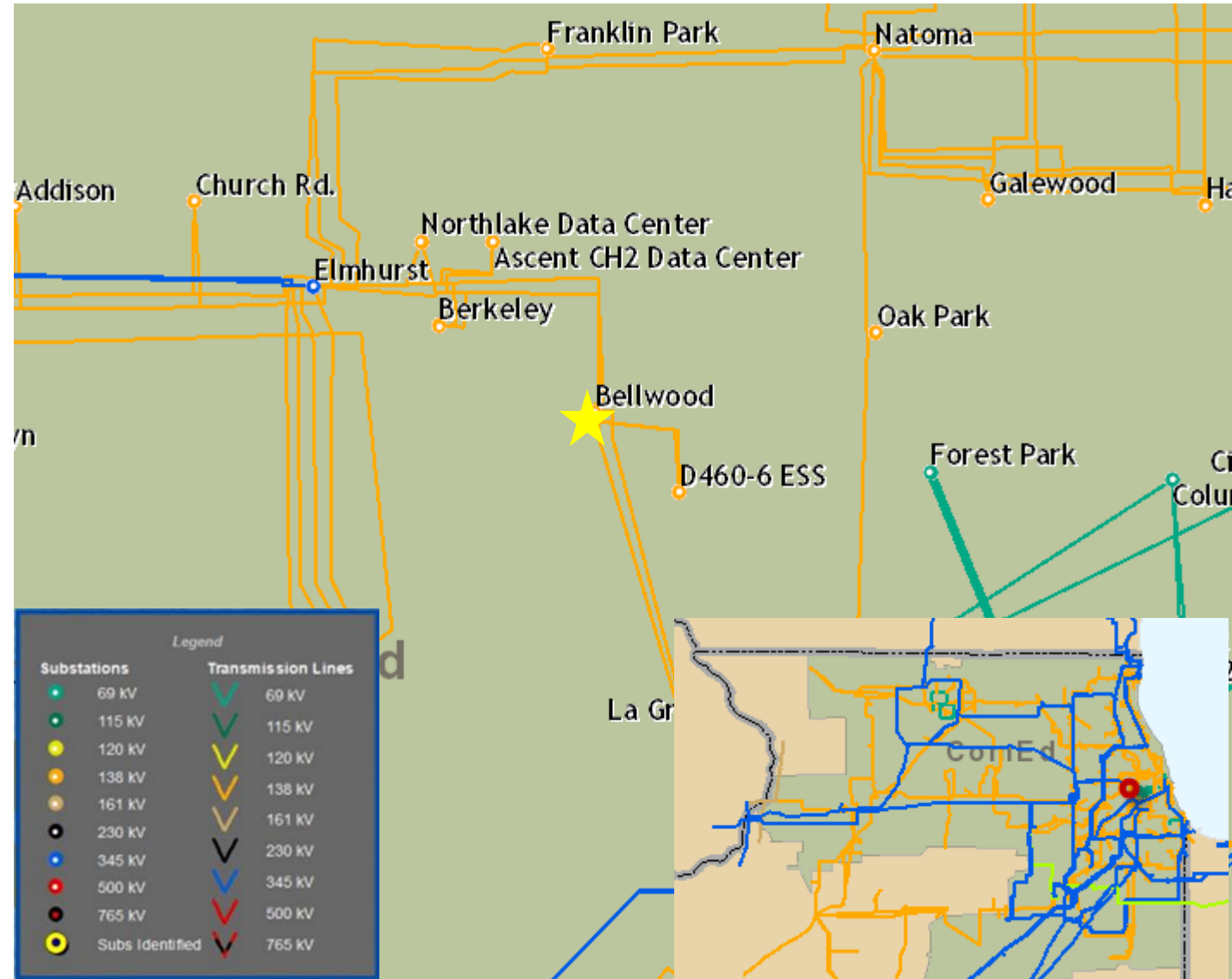
- Customer Service
- Operational Flexibility and Efficiency

**Specific Assumption References:**

- Transmission system configuration changes due to new or expansion of existing distribution substations
- Enhancing system functionality, flexibility, or operability

**Problem Statement:**

ComEd Distribution is replacing 138/34 kV transformer 78 at Bellwood which is currently tapped from 138 kV line 13501 (Elmhurst – Bellwood). The transformer and the line trip together.



# Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

**Need Number:** ComEd-2020-005

**Process Stage:** Solutions Meeting May 22, 2020

**Previously Presented:**

Need Meeting April 20, 2020

**Project Driver:**

Operational Flexibility and Efficiency

**Specific Assumption Reference:**

Internal and/or regulatory design guidelines or PJM minimum design standards

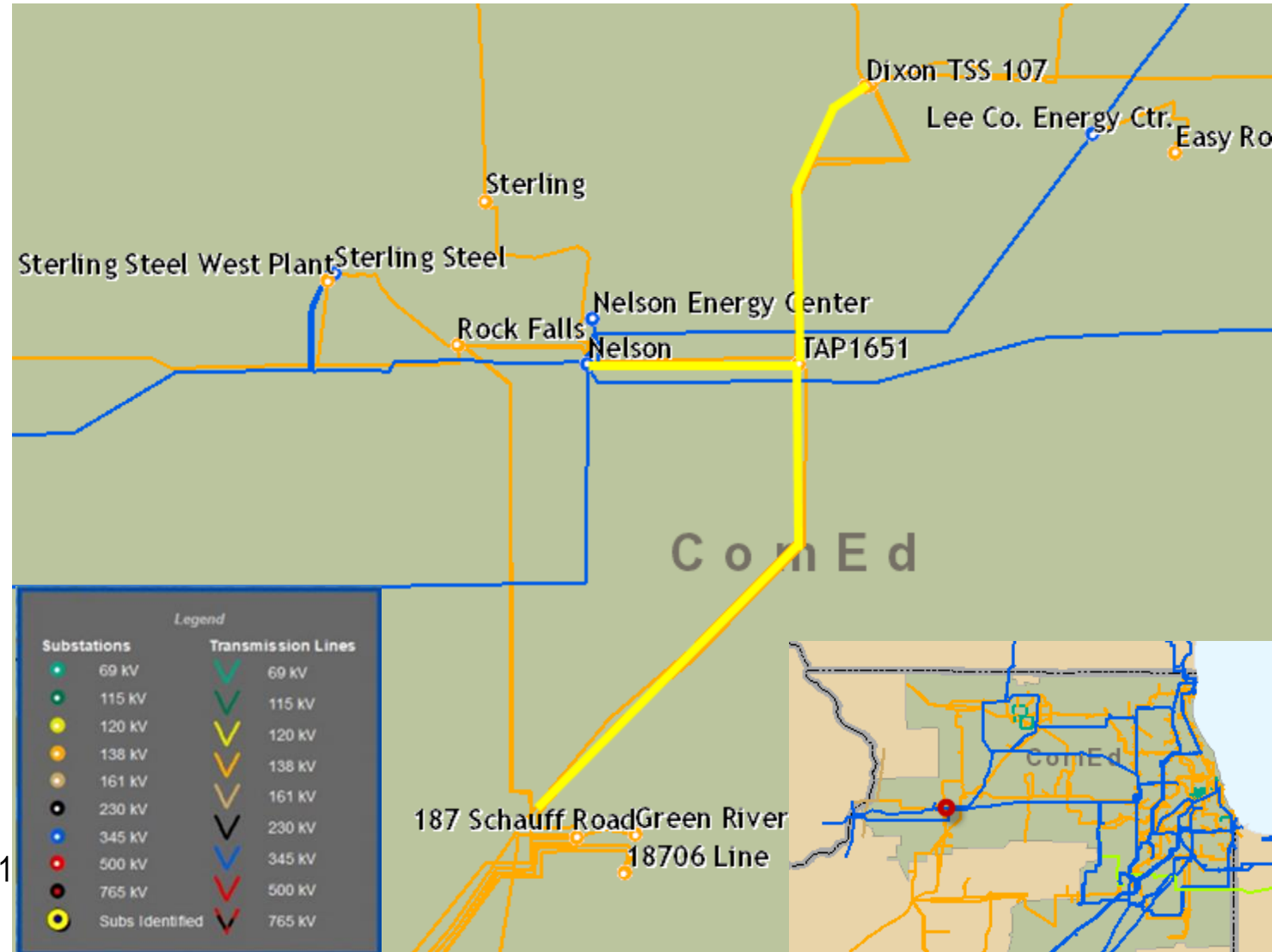
Enhancing system functionality, flexibility, or operability

**Problem Statement:**

138 kV Line 15508 is a three terminal line. The current configuration is difficult to relay properly due to unequal lengths of the three legs.

- Nelson (4.5 miles)
- Dixon (5.7 miles)
- Schauff Rd. (13.1 miles)

Project b2999 is rebuilding the Schauff Rd. leg with an 11/1/2021 projected in-service date.



**Need Number:** ComEd-2020-005

**Process Stage:** Solutions Meeting May 22, 2020

**Proposed Solution:**

Build a 2<sup>nd</sup> circuit 4.5 miles in existing ROW from Nelson to tap point and split into two 2-terminal lines. Ratings on the new section will be 351/449 MVA SN/SLTE consistent with b2999 project. Estimated cost: \$15.2M

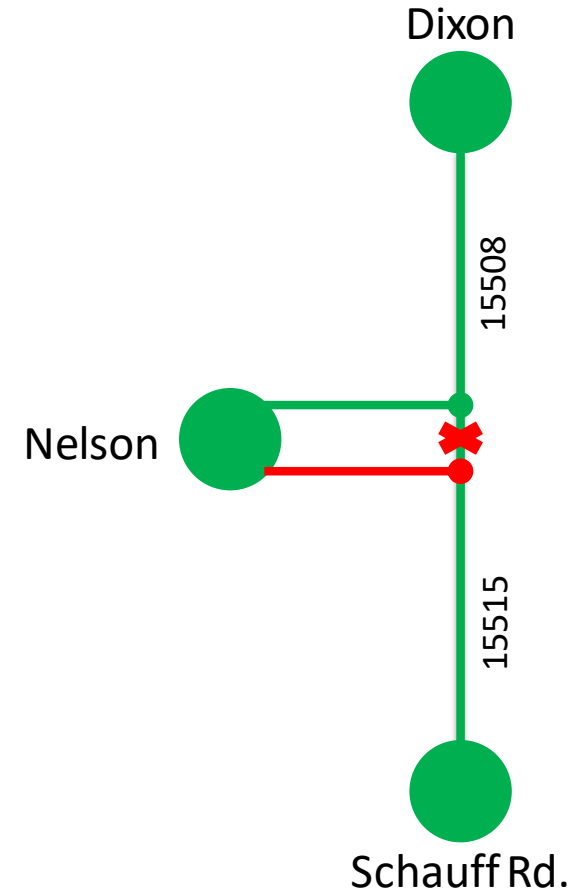
**Alternatives Considered:**

None

**Projected In-Service:** 6/1/22

**Project Status:** Scoping

**Model:** 2024 RTEP



**Need Number:** ComEd-2020-006

**Process Stage:** Solutions Meeting May 22, 2020

**Previously Presented:**

Need Meeting April 20, 2020

**Project Driver:**

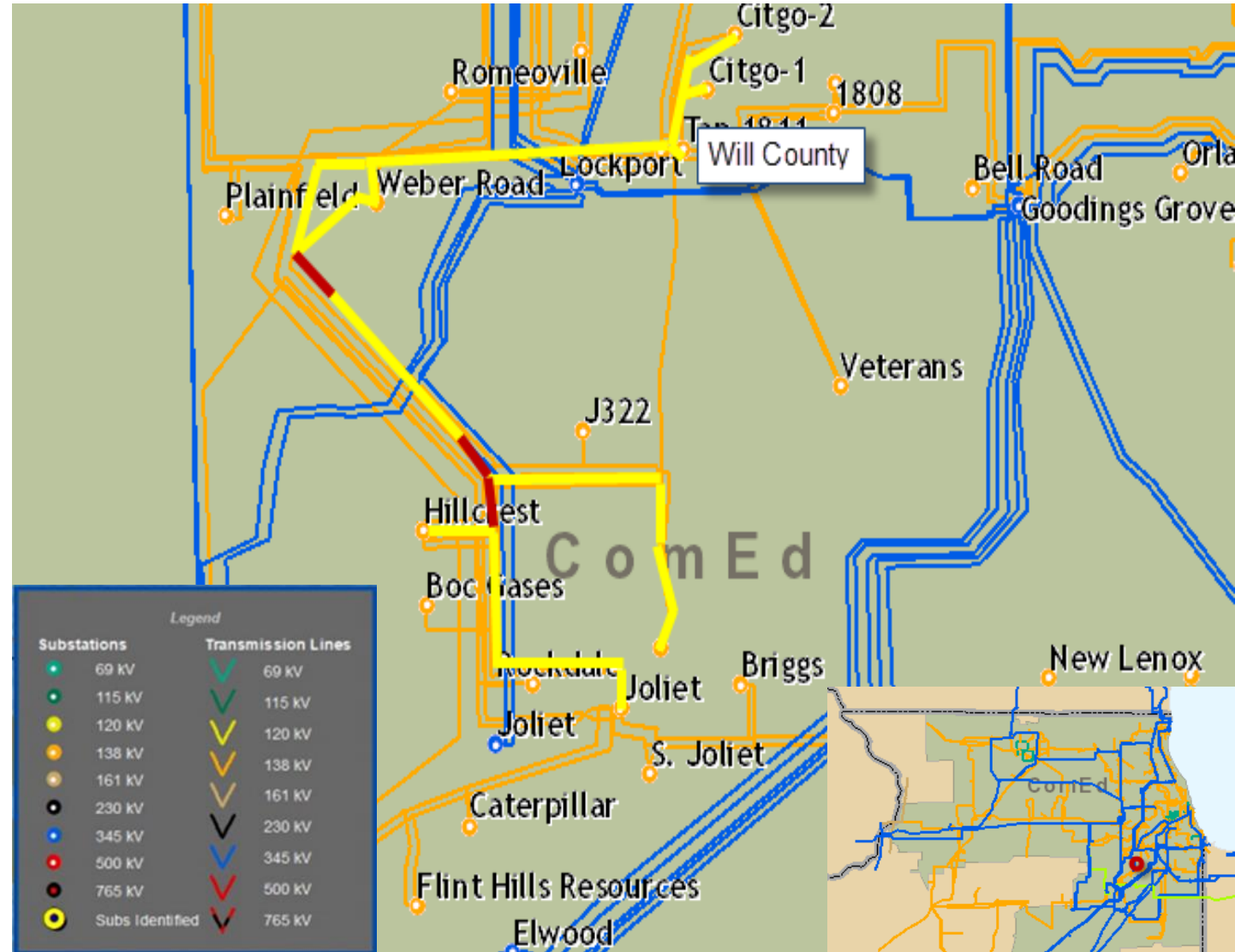
Equipment Material Condition, Performance, and Risk

**Specific Assumption Reference:**

Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

**Problem Statement:**

- 138 kV Line 0905 (Joliet – Hillcrest – Joliet Central – Will County), 15 miles total, has 2.4 miles of 300 kcmil cu conductor. Conductor was installed in 1942.
- 138 kV Line 0906 (Joliet – Hillcrest – Joliet Central – Weber Rd. – ESS J332 tap – Will County), 16.5 miles total, has 3.0 miles of 300 kcmil cu conductor. Conductor was installed in 1942.
- 300 cu conductor has iron clamps that cause heating issues
- Attachments are made with aluminum clamps with a bi-metallic buffer between the clamps and the conductor which is difficult for the crews to handle.



**Need Number:** ComEd-2020-006

**Process Stage:** Solutions Meeting May 22, 2020

**Proposed Solution:**

Reconductor a total of 5.4 miles of 300 cu Kcmil in sections of 138 kV lines 0905 and 0906 with 1113 ACSR or similar rating ACSS. Estimated cost: \$4.5M

Ratings:

- 0905 Joliet Central – Will County
  - Old: 142/183 New: 208/264 MVA SN/SLTE
- 0906 Hillcrest – Joliet Central
  - Old: 173/223 New: 351/449 MVA SN/SLTE
- 0906 Joliet Central – Weber Rd.
  - Old: 173/223 New: 208/264 MVA SN/SLTE

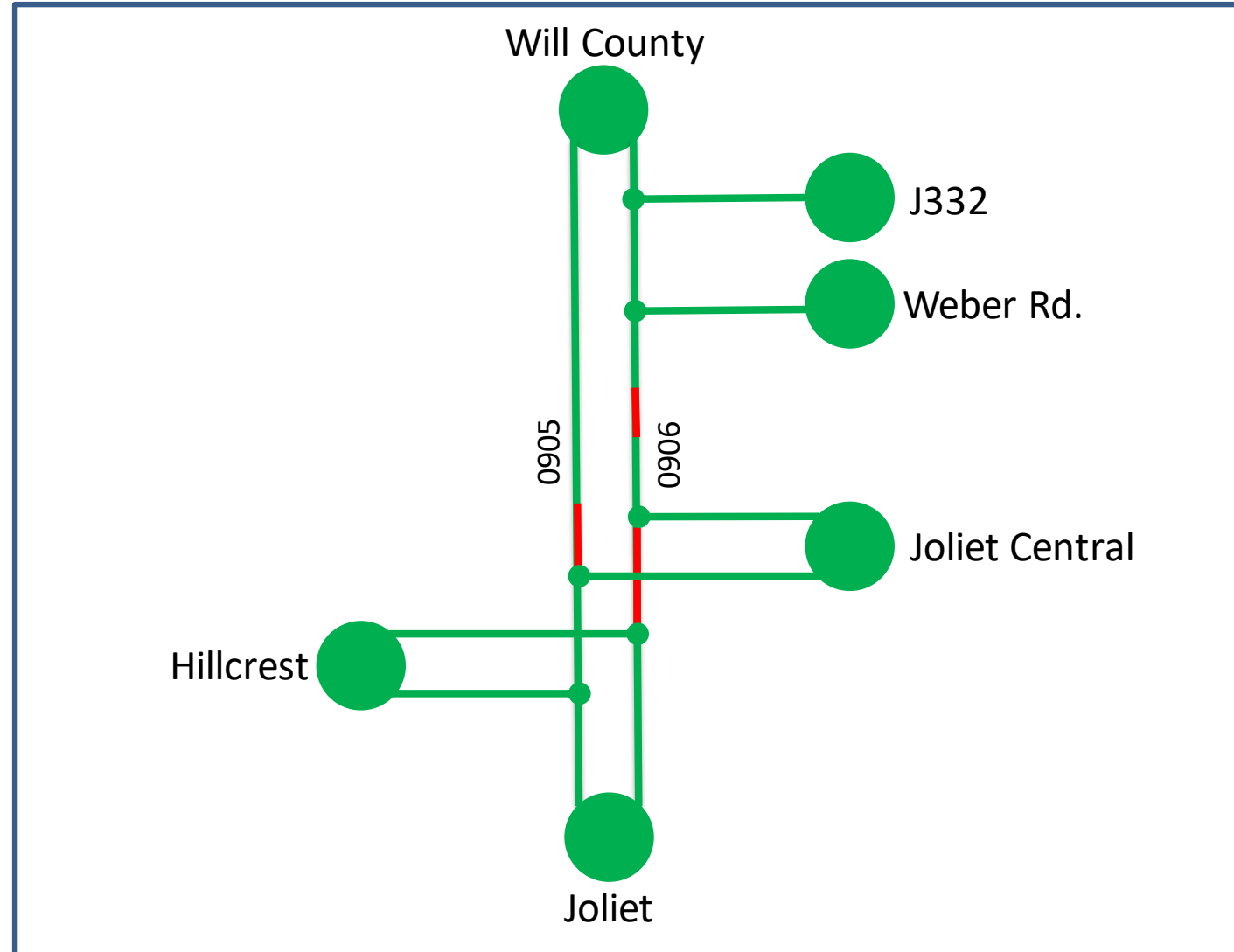
**Alternatives Considered:**

None

**Projected In-Service:** 6/1/22

**Project Status:** Scoping

**Model:** 2024 RTEP





# Appendix

# High Level M-3 Meeting Schedule

Assumptions	Activity	Timing
	Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
	Stakeholder comments	10 days after Assumptions Meeting
Needs	Activity	Timing
	TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
	Stakeholder comments	10 days after Needs Meeting
Solutions	Activity	Timing
	TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
	Stakeholder comments	10 days after Solutions Meeting
Submission of Supplemental Projects & Local Plan	Activity	Timing
	Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
	Post selected solution(s)	Following completion of DNH analysis
	Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
	Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

# Revision History

5/12/2020 – V1 – Original version posted to pjm.com