



SRRTEP - Western Committee ComEd Supplemental Projects

October 16, 2026

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

ComEd Transmission Zone M-3 Process

138KV L10301 Circuit Switcher

Need Number: ComEd-2026-014

Process Stage: Solution Meeting 10/16/2026

Previously Presented: Need Meeting 9/18/2026

Project Driver:

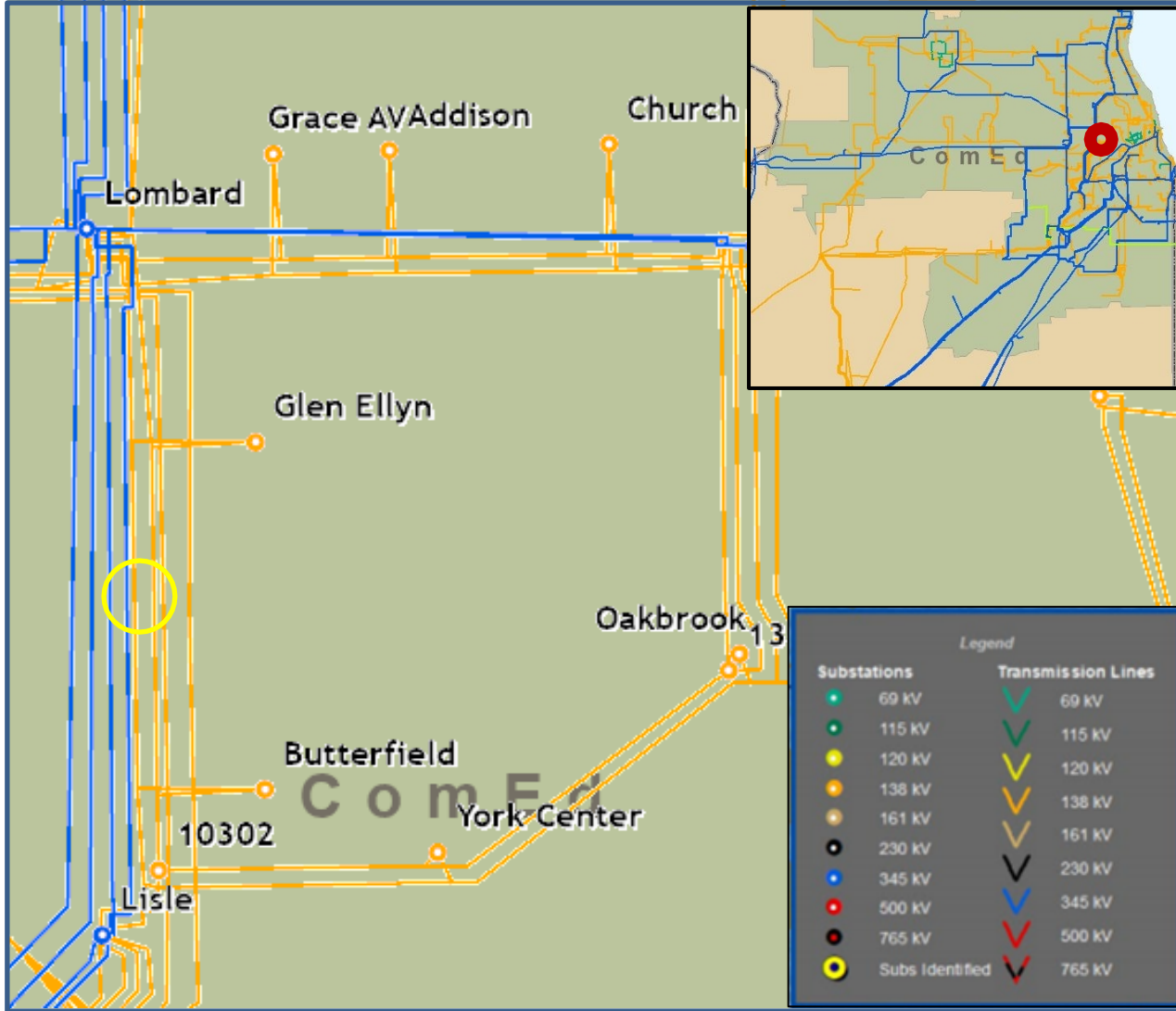
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

- 138 kV, 1200 A circuit switcher on 138 kV line L10301 from Butterfield to Glen Ellyn Tap was installed in 1971. It is in deteriorating condition, lacks replacement parts, and has elevated maintenance costs.



Need Number: ComEd-2026-014

Process Stage: Solution Meeting 10/16/2026

Proposed Solution:

Replace one 138 kV line circuit switcher

- Old Ratings: 1200 A
- New Ratings: 3000 A

The transmission switch replacement resulted in increasing the associated facility ratings as seen below:

Butterfield to Glen Ellyn Tap			
MVA Ratings	SN/SLTE/SSTE/SLD	LN/LLTE/LSTE/LLD	WN/WLTE/WSTE/WLD
Existing	298/388/460/498	332/415/498/544	341/423/508/557
New	351/449/460/498	407/489/502/544	421/500/513/557

Estimated Transmission Cost: \$183.2K

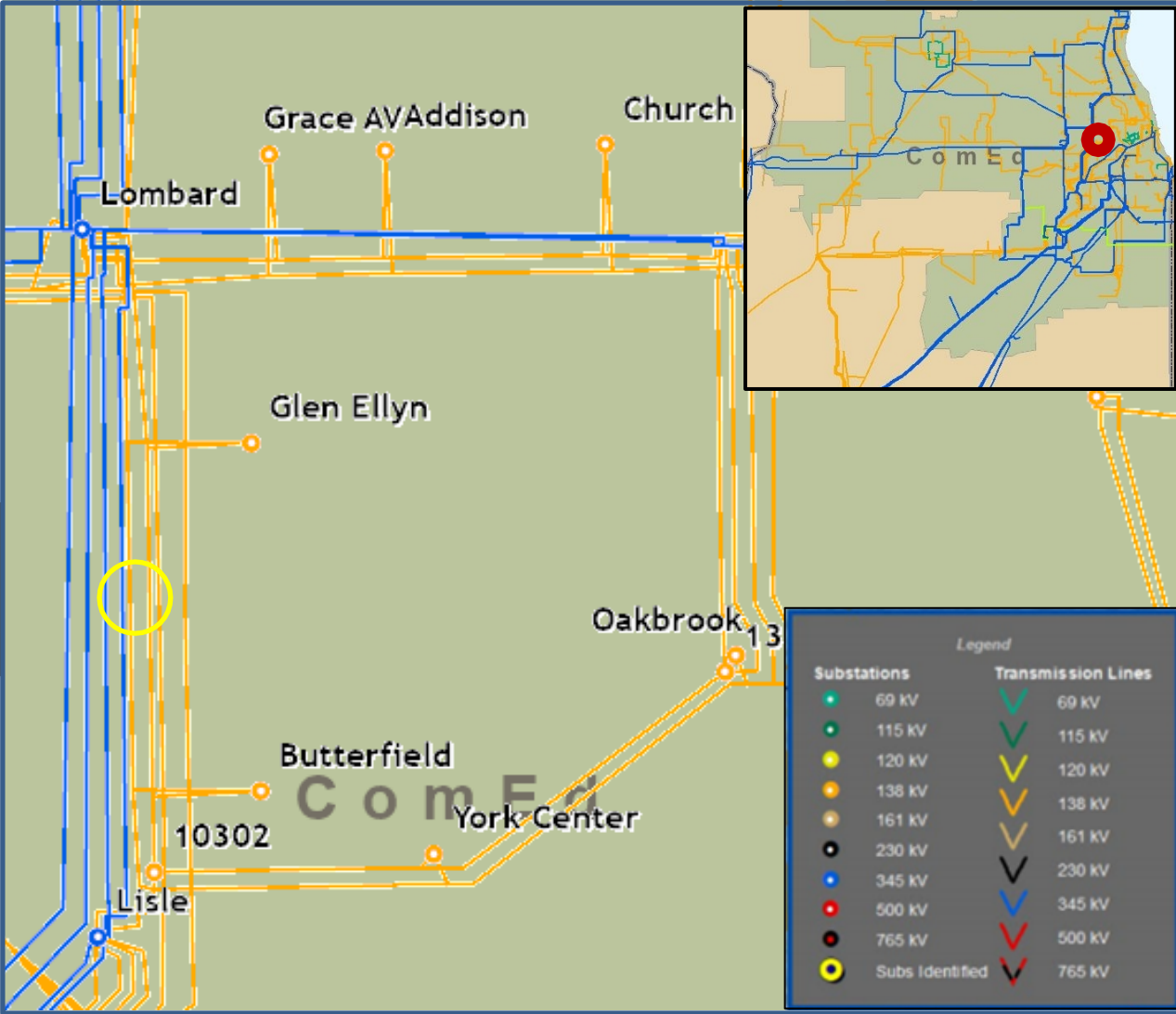
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 12/31/2027

Project Status: Conceptual

Model: 2030 RTEP



ComEd Transmission Zone M-3 Process 138KV L14103 Transmission Switch

Need Number: ComEd-2026-015

Process Stage: Solution Meeting 10/16/2026

Previously Presented: Need Meeting 9/18/2026

Project Driver:

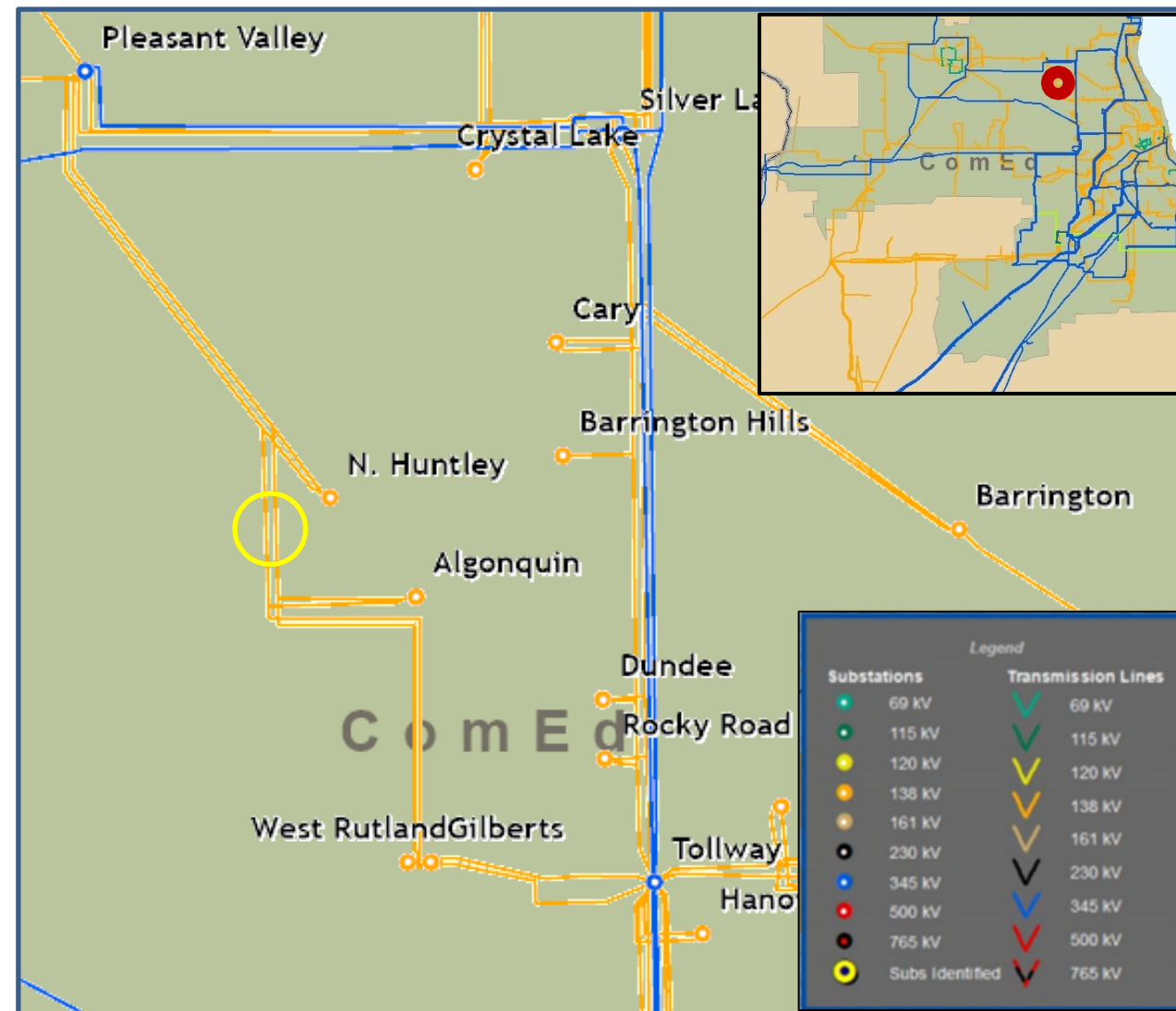
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

- 138 kV, 1200 A transmission switch on 138 kV line L14103 from North Huntley Tap to Algonquin Tap was installed in 2001. It is in deteriorating condition, lacks replacement parts and has elevated maintenance costs.



ComEd Transmission Zone M-3 Process 138KV L14103 Transmission Switch

Need Number: ComEd-2026-015

Process Stage: Solution Meeting 10/16/2026

Proposed Solution:

Replace one 138 kV line transmission switch

- Old Ratings: 1200 A
- New Ratings: 3000 A

The transmission switch replacement resulted in increasing the associated facility ratings as seen below:

North Huntley Tap to Algonquin Tap			
MVA Ratings	SN/SLTE/SSTE/SLD	LN/LLTE/LSTE/LLD	WN/WLTE/WSTE/WLD
Existing	376/484/495/538	436/527/541/574	452/538/553/574
New	376/484/495/538	436/527/541/588	452/538/553/601

Estimated Transmission Cost: \$229.2K

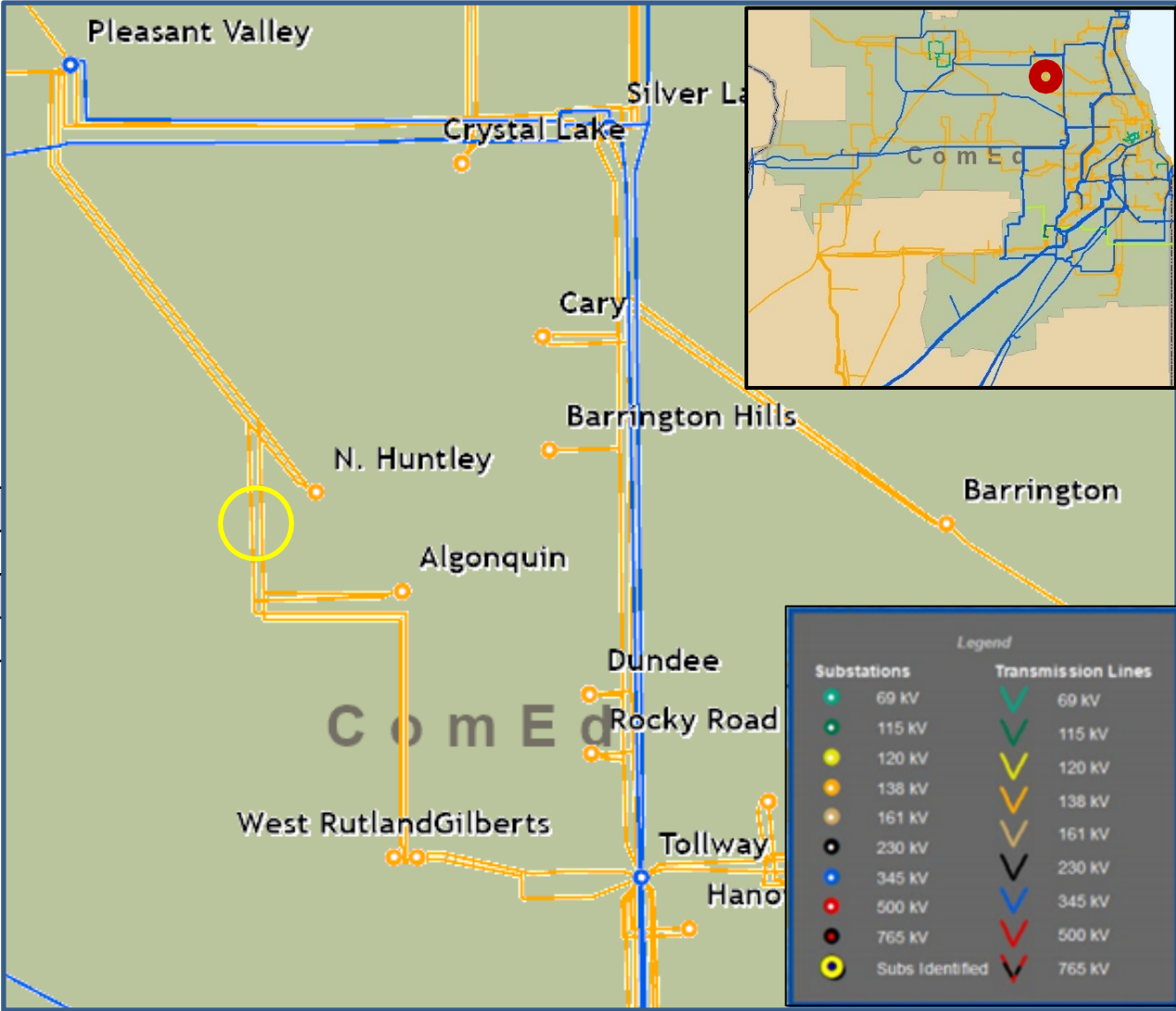
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 12/31/2028

Project Status: Conceptual

Model: 2030 RTEP



Need Number: ComEd-2026-016

Process Stage: Solution Meeting 10/16/2026

Previously Presented: Need Meeting 9/18/2026

Project Driver:

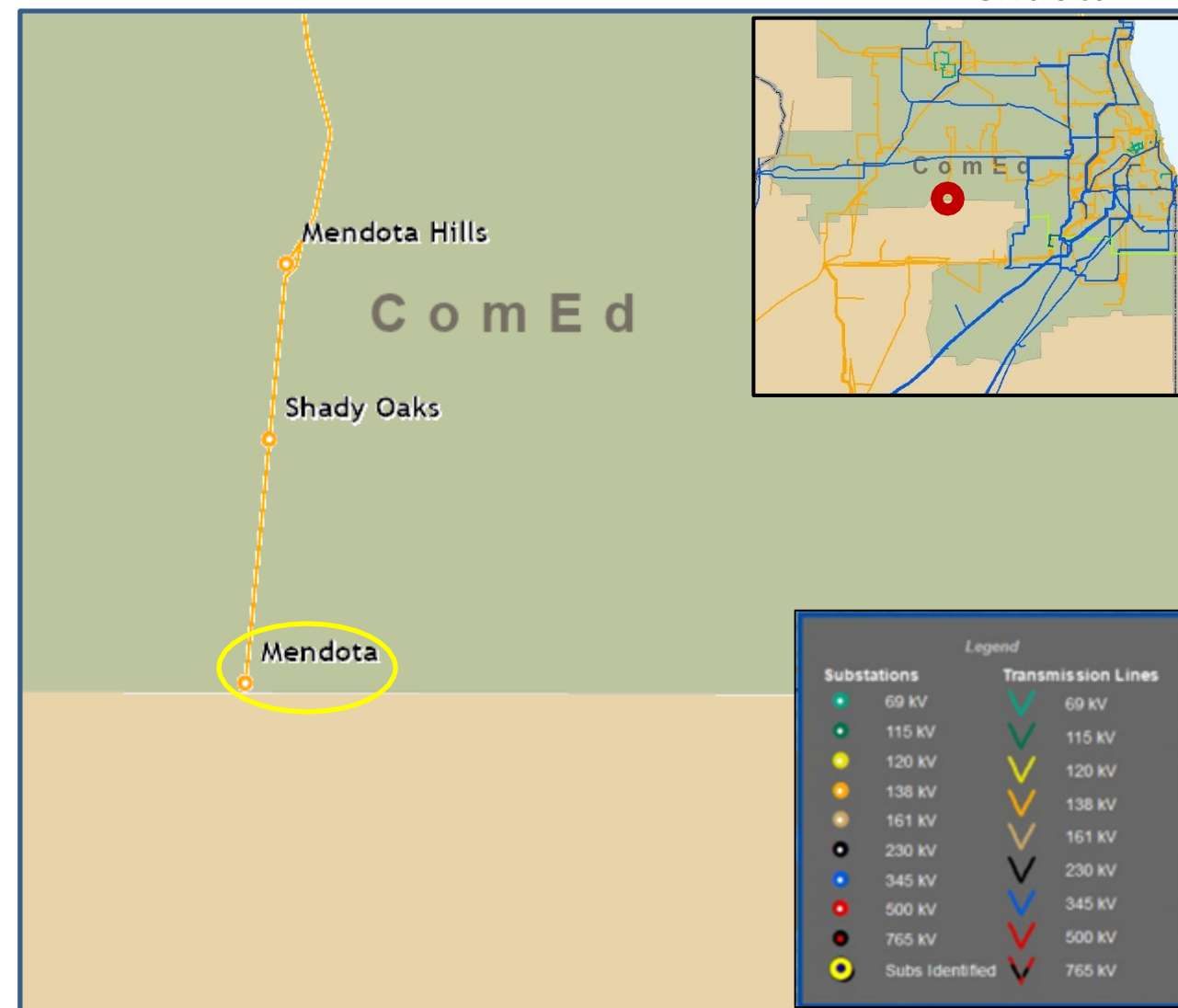
Customer Service

Specific Assumption Reference:

- Transmission System configuration changes due to new or expansion of existing distribution substations

Problem Statement:

ComEd Distribution Capacity Planning requested additional capacity in the Mendota region to accommodate existing interconnected Distributed Energy Resources. Existing distribution facilities do not have enough capacity to accommodate this amount of interconnected Distributed Energy Resources.



Need Number: ComEd-2026-016

Process Stage: Solution Meeting 10/16/2026

Proposed Solution:

- Install two new 138kv circuit breakers to the existing Mendota four breaker ring bus (B4025.2) to accommodate one new distribution transformer, and a one new mobile ready distribution transformer position

Estimated Transmission cost: \$4.85 M

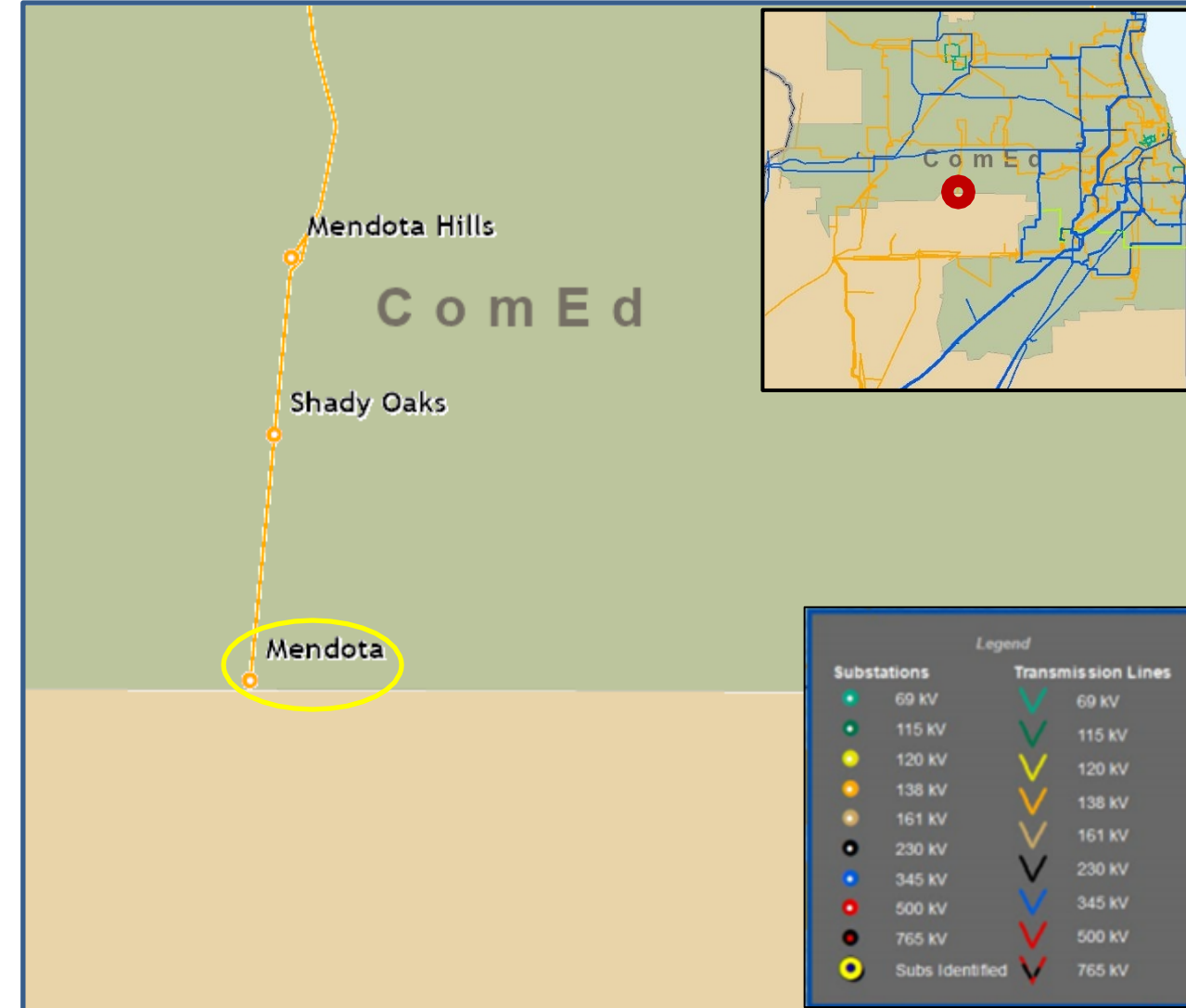
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 6/1/2030

Project Status: Conceptual

Model: 2030 RTEP



Need Number: ComEd-2026-017

Process Stage: Solution Meeting 10/16/2026

Previously Presented: Need Meeting 9/18/2026

Project Driver:

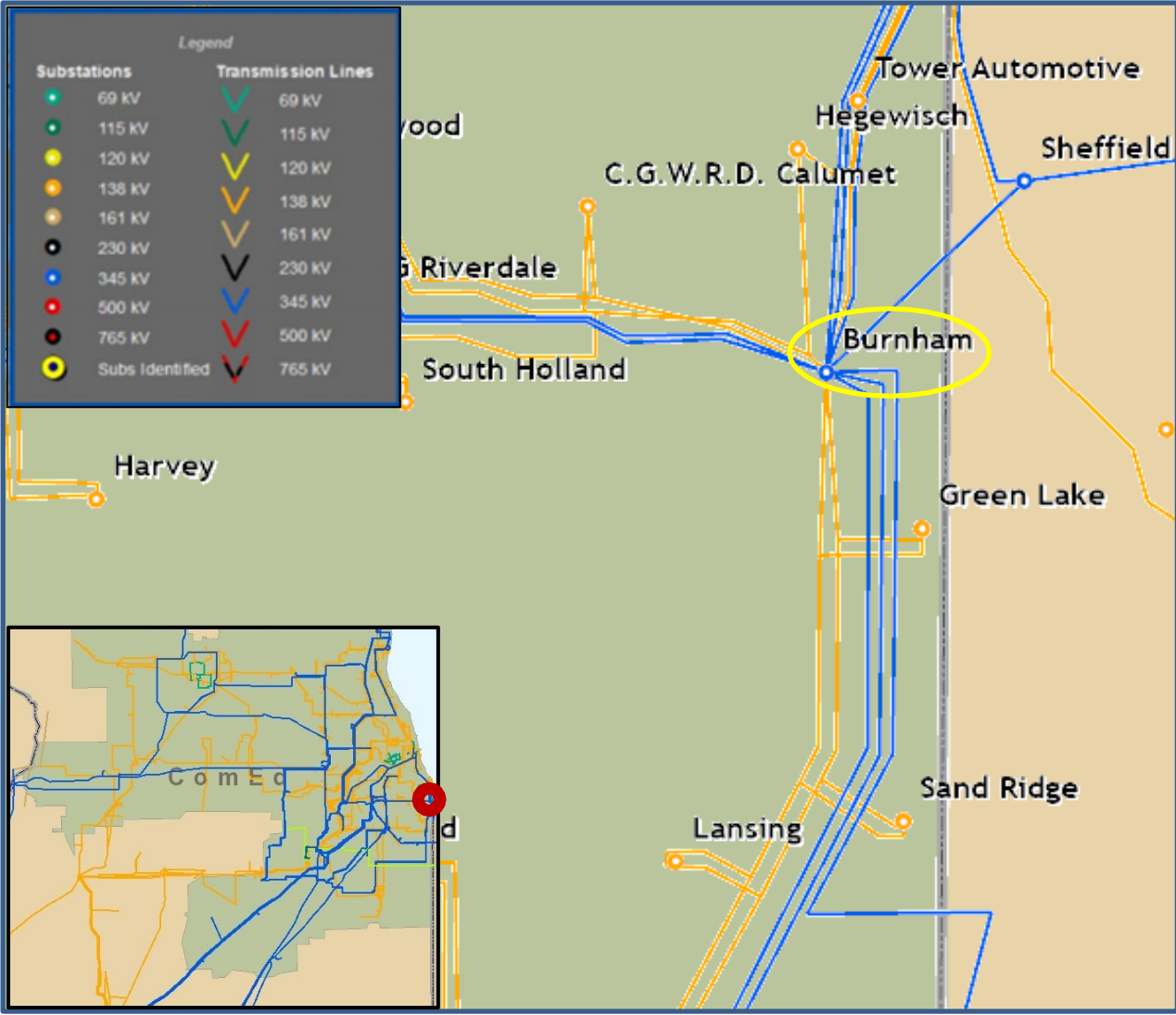
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

Burnham 138KV Bus 1-2, BT 2-3, Bus 3 and BT 3-4 electromechanical relays are obsolete and are being phased out of the system. It is becoming difficult to service existing electromechanical relays.



Need Number: ComEd-2026-017

Process Stage: Solution Meeting 10/16/2026

Proposed Solution:

Upgrade Burnham 138KV Bus 1-2, BT 2-3, Bus 3 and BT 3-4 Relays, associated relay settings and CT taps. The Relay replacement results in increasing the associated facility ratings as seen below:

MVA Ratings	SN/SLTE/SSTE/SLD	LN/LLTE/LSTE/LLD	WN/WLTE/WSTE/WLD
Burnham 138KV BT 2-3			
Existing	403/459/459/574	459/459/459/574	459/459/459/574
New	403/461/536/643	477/528/610/727	496/546/629/750
Burnham 138KV BT 3-4			
Existing	403/459/459/574	459/459/459/574	459/459/459/574
New	403/461/536/643	477/528/610/727	496/546/629/750

Estimated Transmission cost: \$1.4 M

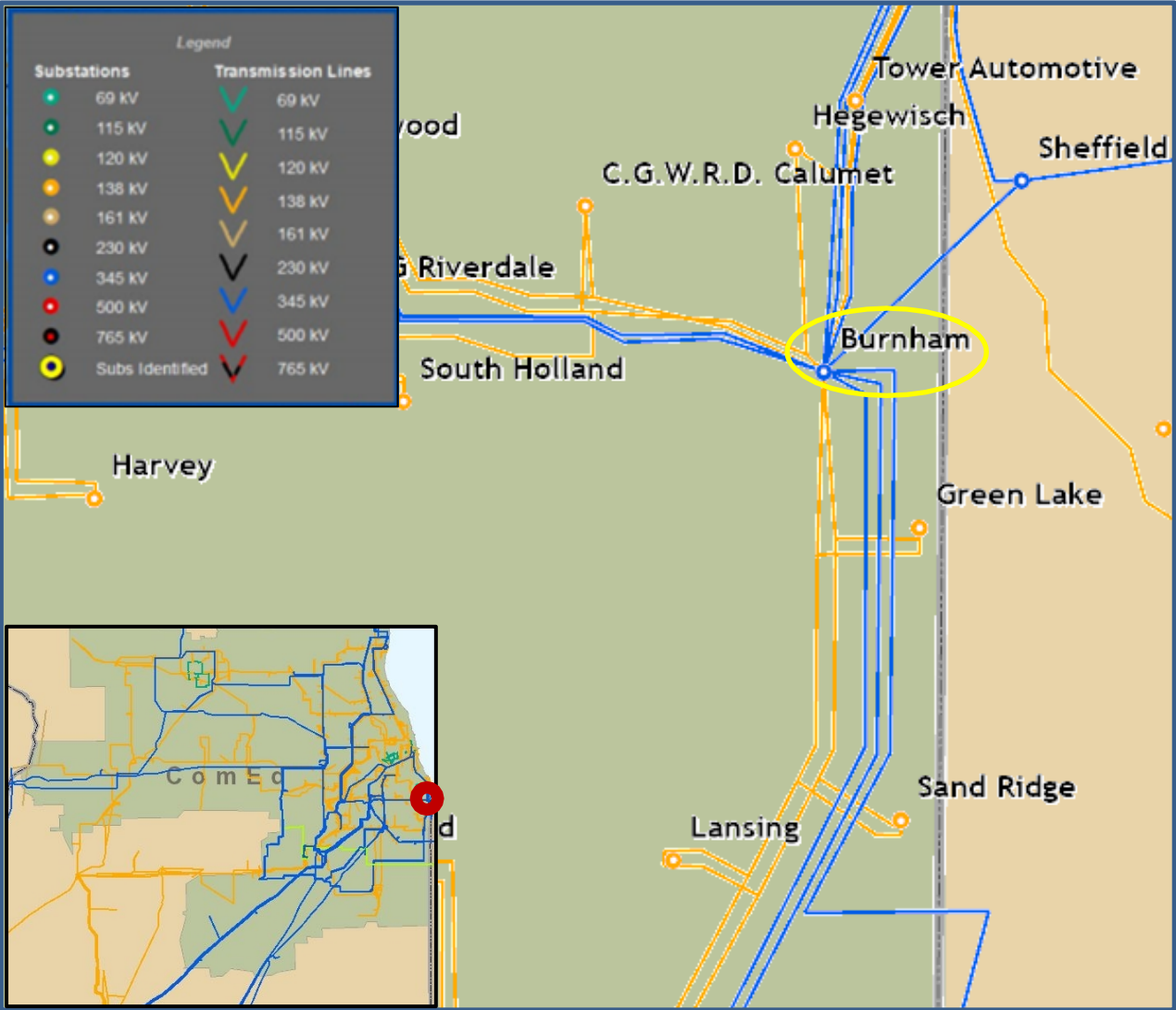
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 11/13/26

Project Status: Construction

Model: 2030 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

10/06/2026 – V1 – Original version posted to pjm.com