TEAC - Western Committee
ComEd Supplemental Projects

September 9, 2025

ComEd Transmission Zone M-3 Process
ComEd-2024-015 Cancellation

Need Number: ComEd-2024-015

Process Stage: Cancellation

Previously Presented: Need Meeting 8/6/2024, Solutions Meeting 3/4/2025

Project Driver:

Customer Service

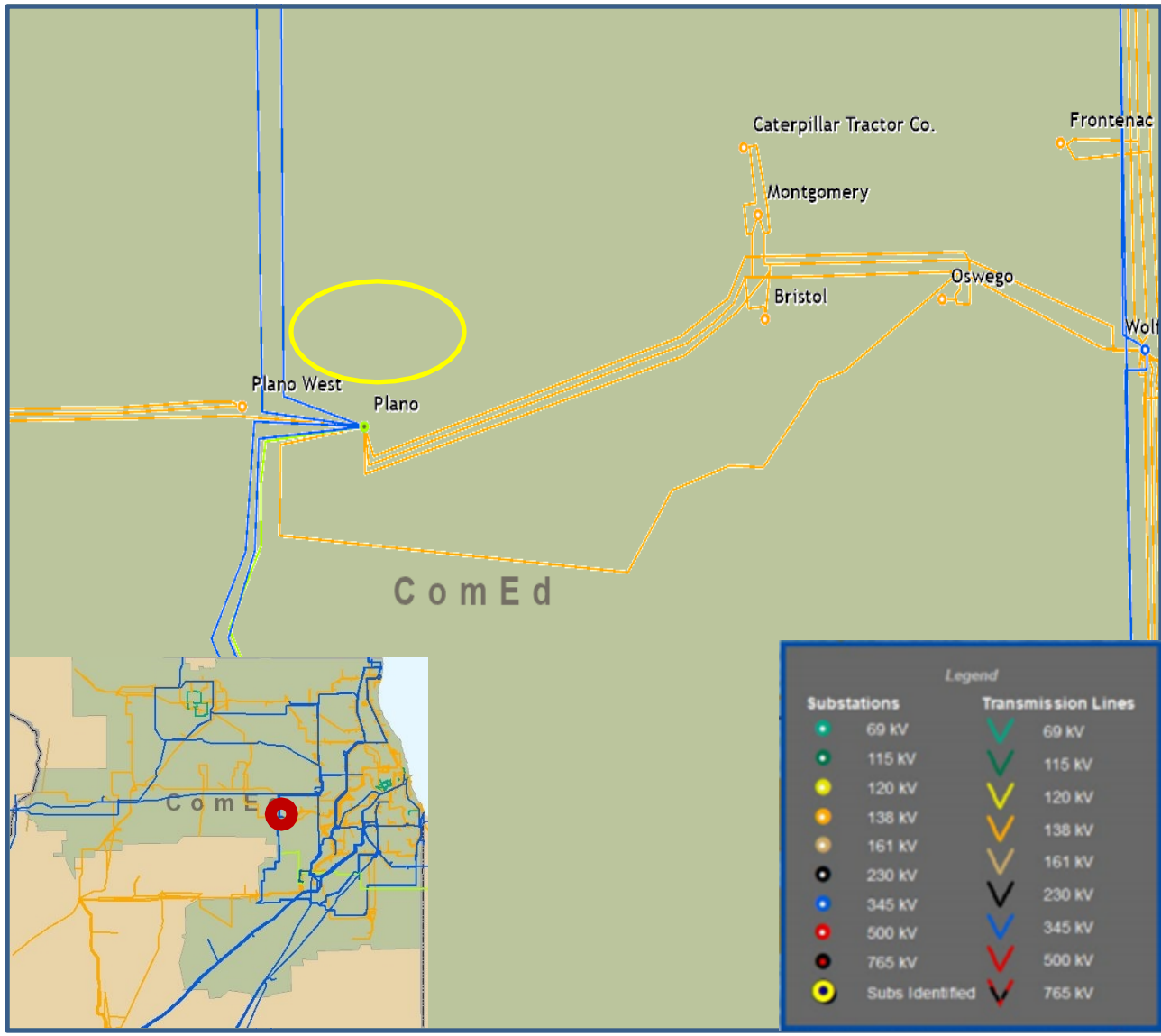
Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

- A new customer is looking for transmission service in the Plano area. Initial loading is expected to be 400 MW in June 2029, with an ultimate load of 600 MW.

Cancellation Reason: Customer withdrawal of need



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

ComEd Transmission Zone M-3 Process Customer in DeKalb

Need Number: ComEd-2025-009

Process Stage: Need Meeting 9/9/2025

Project Driver:

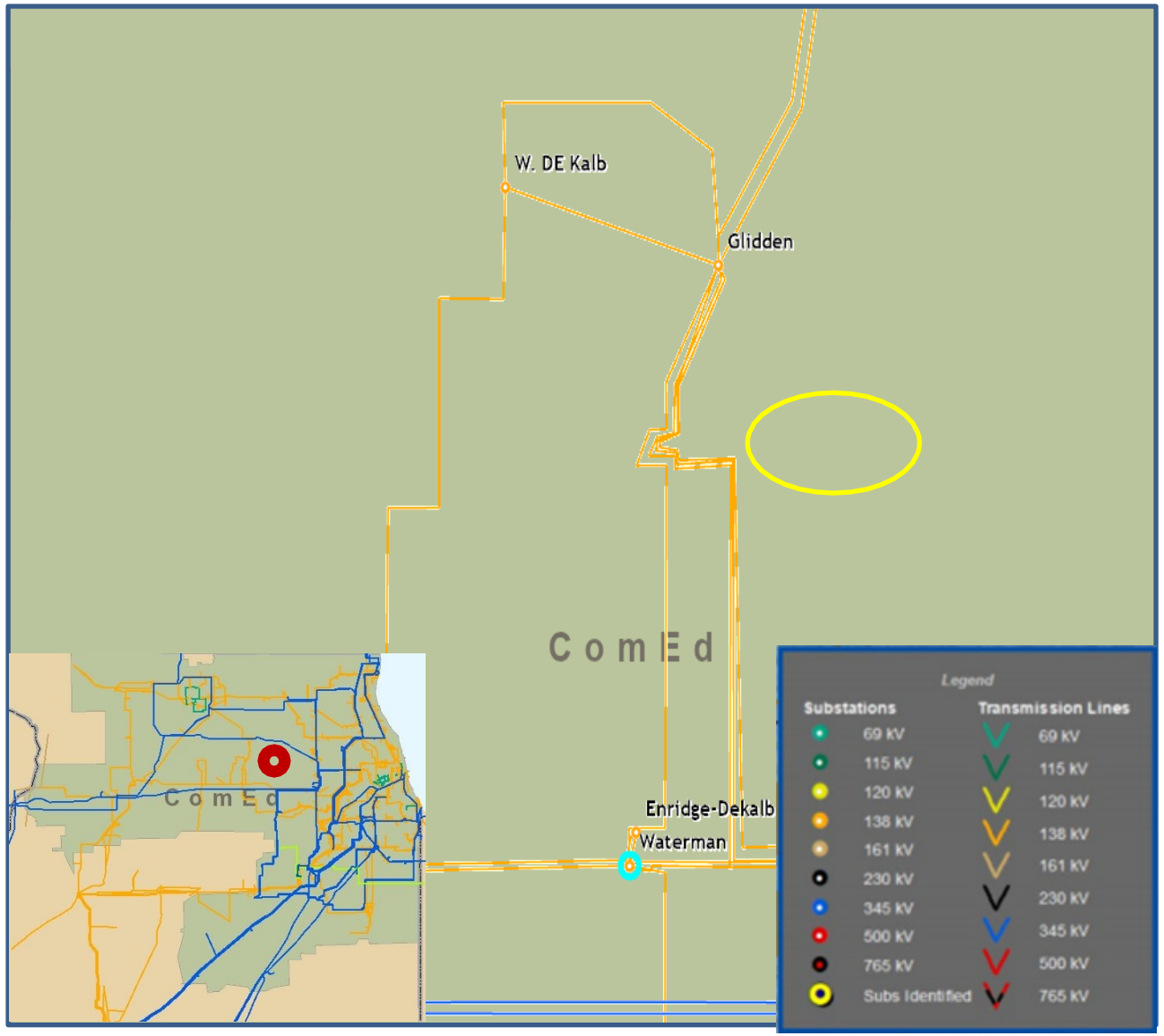
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the DeKalb area. Initial loading is expected to be 12 MW in 2029, 48 MW in June 2030 with an ultimate load of 504 MW in 2033.



ComEd Transmission Zone M-3 Process
Customer in DeKalb

Need Number: ComEd-2025-010

Process Stage: Need Meeting 9/9/2025

Project Driver:

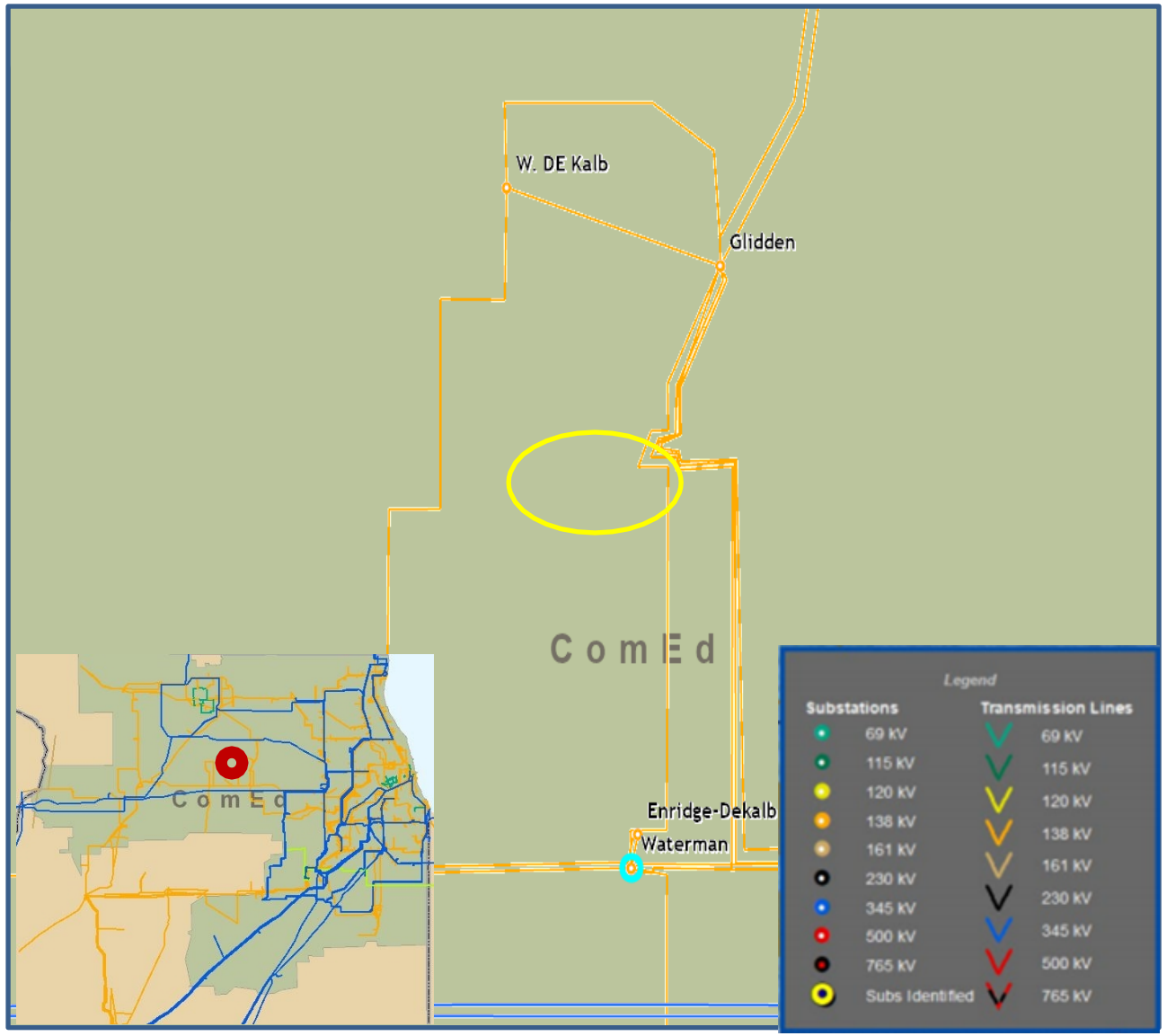
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the DeKalb area. Initial loading is expected to be 55 MW in June 2029 with an ultimate load of 860 MW in 2033.



ComEd Transmission Zone M-3 Process
Customer in Morris

Need Number: ComEd-2025-011

Process Stage: Need Meeting 9/9/2025

Project Driver:

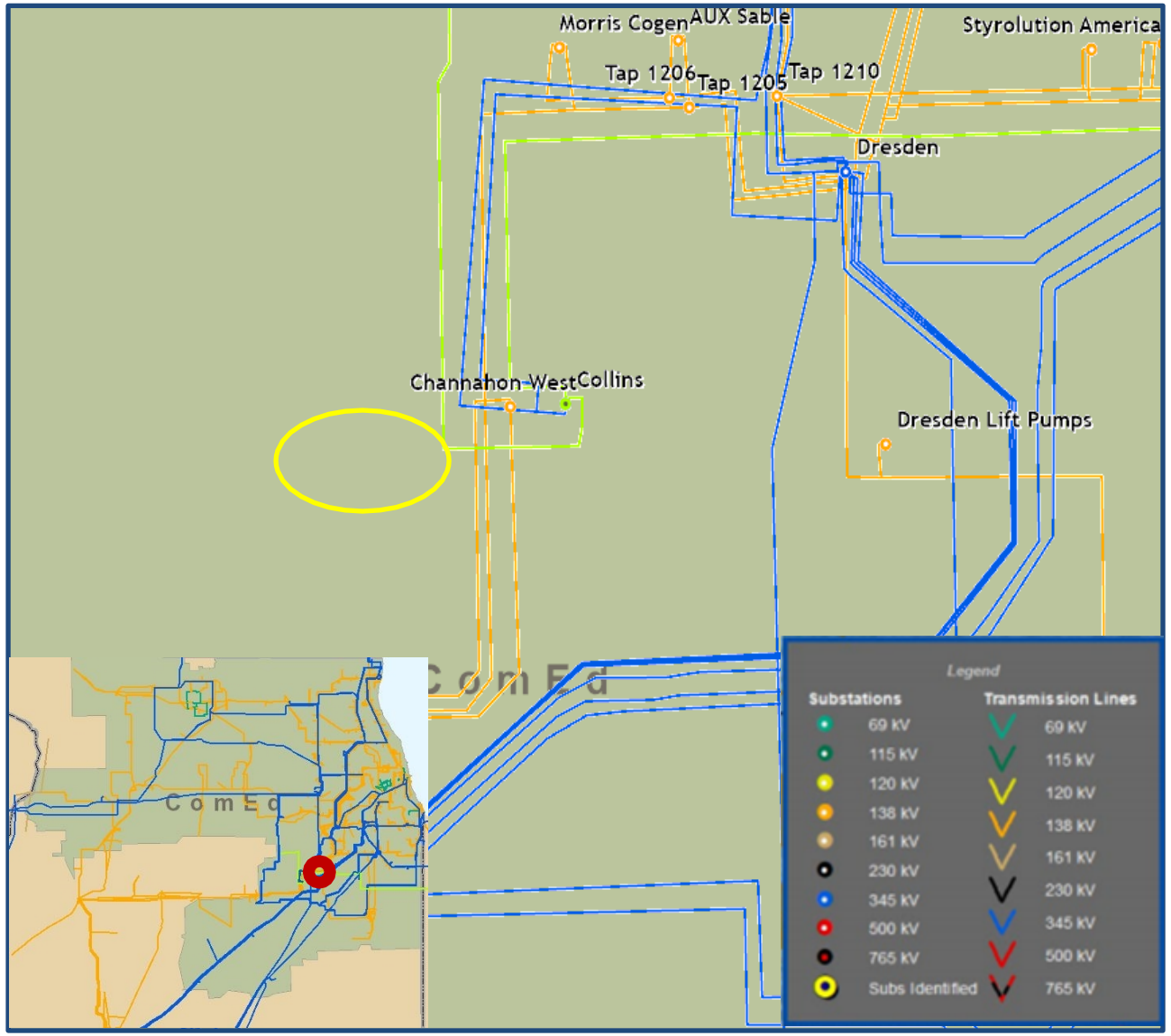
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the Morris area. Initial loading is expected to be 30 MW in June 2028, 230 MW in June 2029 with an ultimate load of 1,000 MW in 2032.



ComEd Transmission Zone M-3 Process
Customer in Braidwood

Need Number: ComEd-2025-012

Process Stage: Need Meeting 9/9/2025

Project Driver:

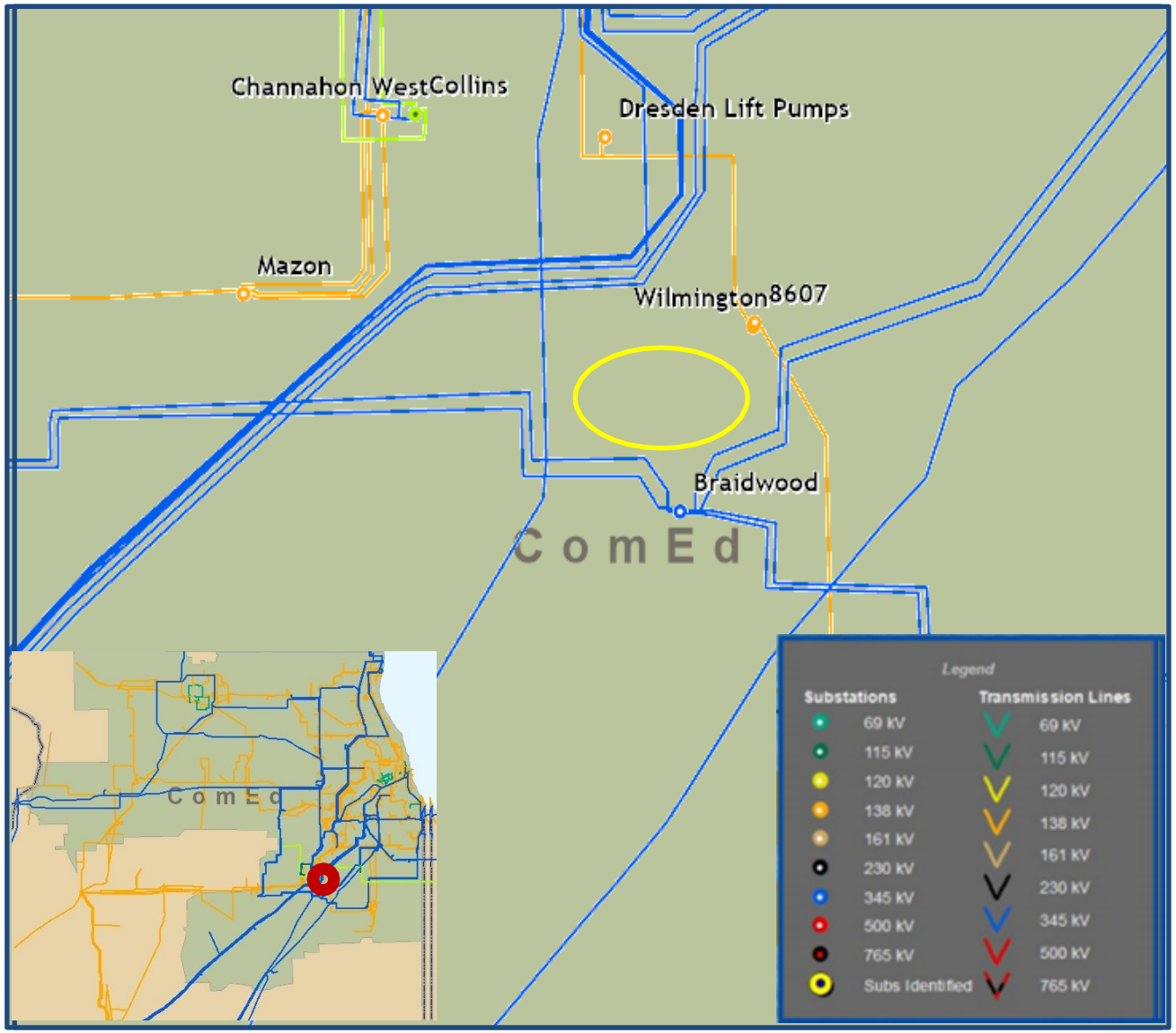
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the Braidwood area. Initial loading is expected to be 60 MW in 2029, 190 MW in June 2030 with an ultimate load of 750 MW in 2034.



ComEd Transmission Zone M-3 Process
Customer in Coal City

Need Number: ComEd-2025-013

Process Stage: Need Meeting 9/9/2025

Project Driver:

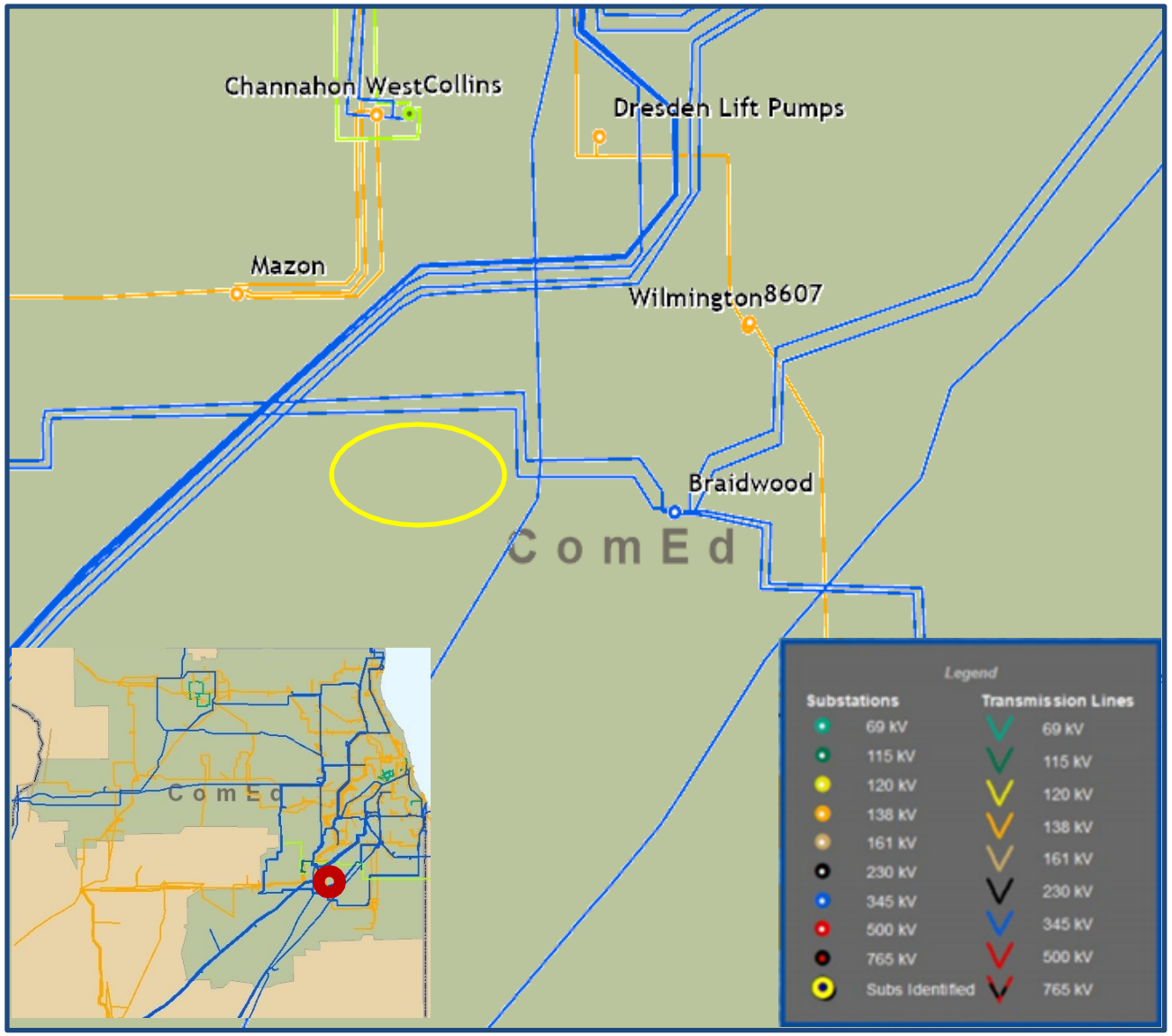
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the Coal City area. Initial loading is expected to be 216 MW in June 2029 with an ultimate load of 1,296 MW in 2034.



ComEd Transmission Zone M-3 Process Customer in Rockford

Need Number: ComEd-2025-014

Process Stage: Need Meeting 9/9/2025

Project Driver:

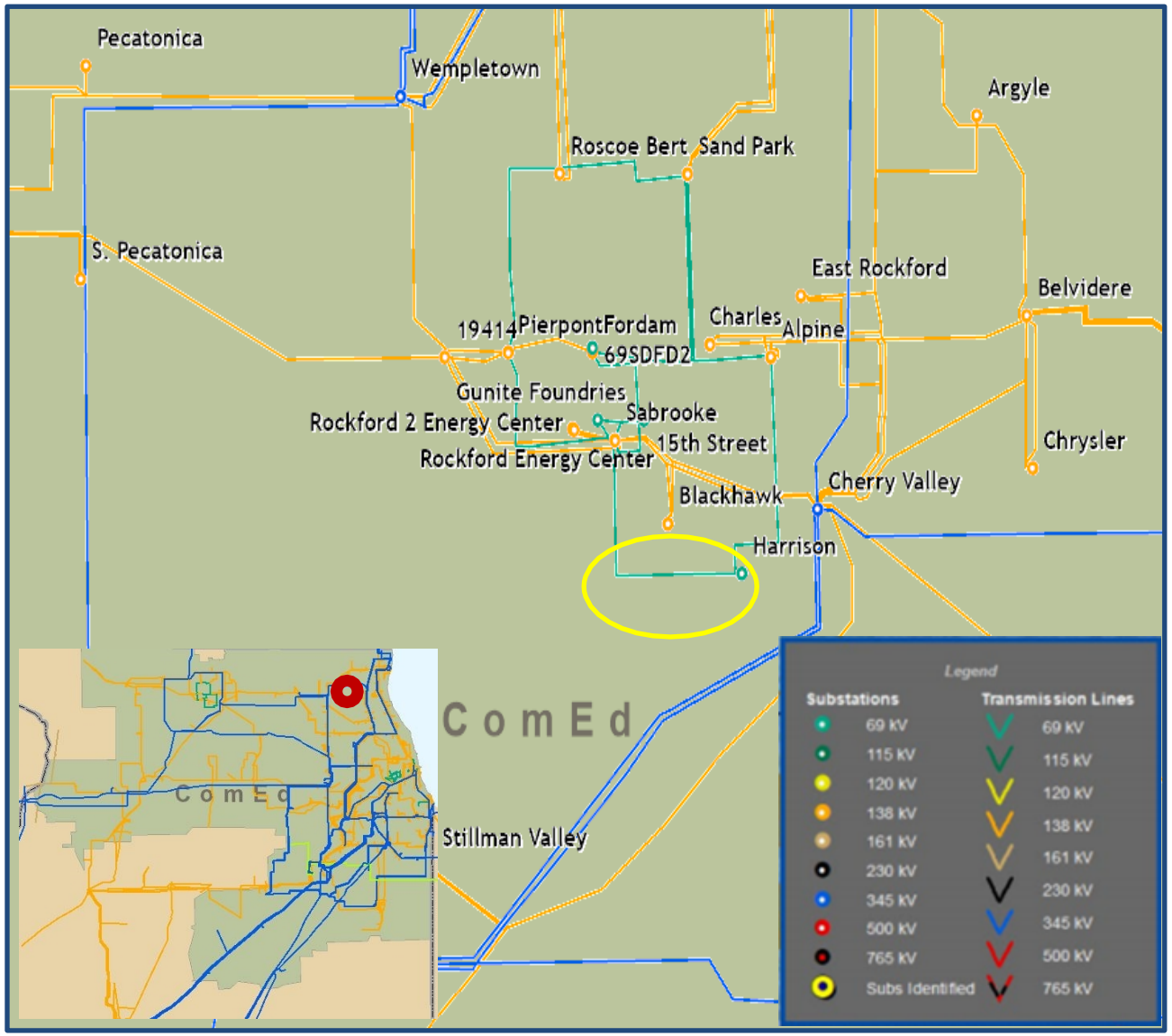
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the Rockford area. Initial loading is expected to be 200 MW in June 2028, 450 MW in June 2029 with an ultimate load of 600 MW in 2029.



ComEd Transmission Zone M-3 Process
Customer in Minooka

Need Number: ComEd-2025-015

Process Stage: Need Meeting 9/9/2025

Project Driver:

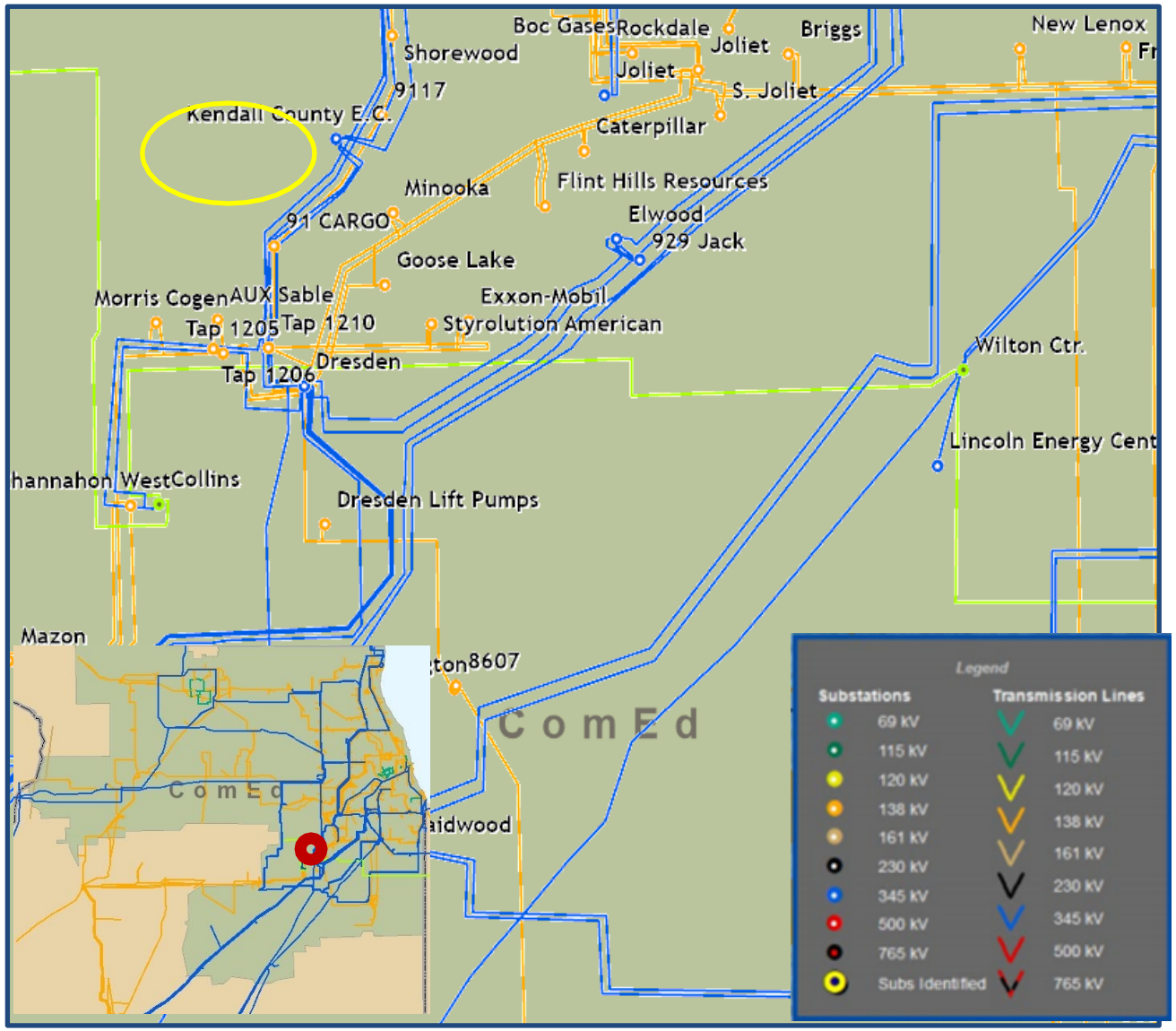
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the Minooka area. Initial loading is expected to be 30 MW in June 2028, 135 MW in June 2029 with an ultimate load of 588 MW in 2036.



ComEd Transmission Zone M-3 Process
Customer in Joliet

Need Number: ComEd-2025-016

Process Stage: Need Meeting 9/9/2025

Project Driver:

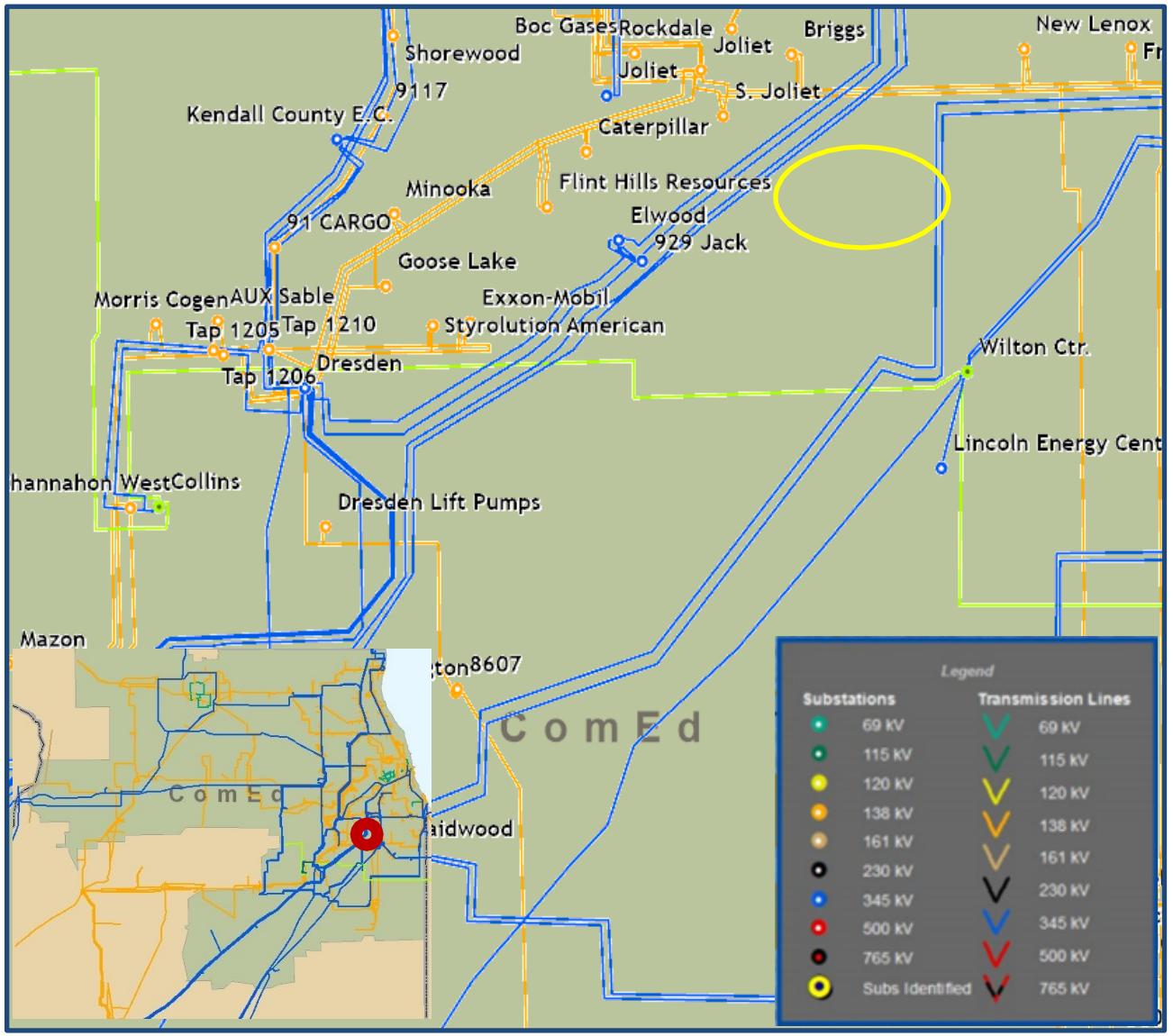
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the Joliet area. Initial loading is expected to be 225 MW in June 2029 with an ultimate load of 1,800 MW in 2033.



ComEd Transmission Zone M-3 Process
Customer in Aurora

Need Number: ComEd-2025-017

Process Stage: Need Meeting 9/9/2025

Project Driver:

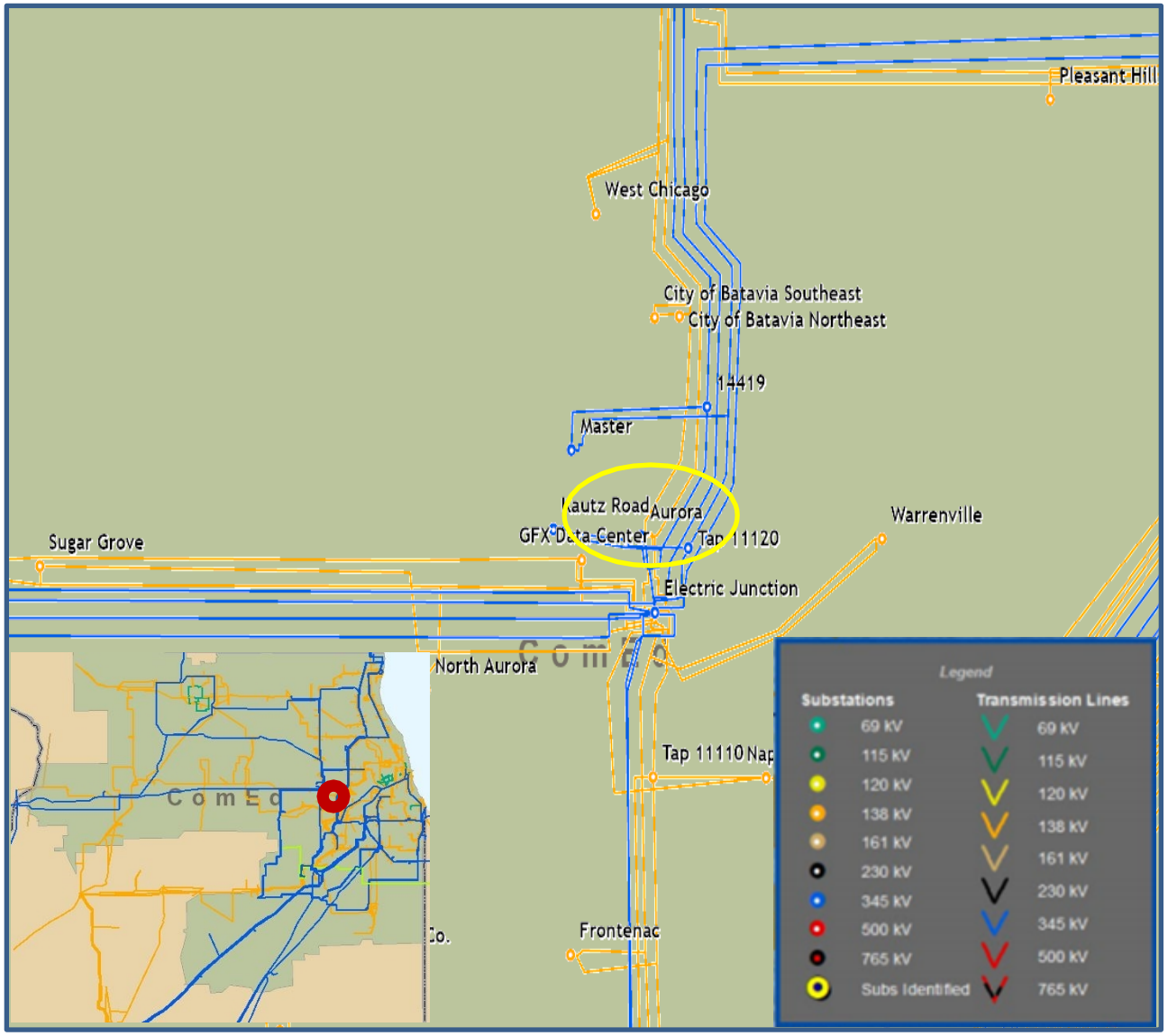
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

New customer is looking for transmission service in the Aurora area. Initial loading is expected to be 148 MW in June 2029 with an ultimate load of 450 MW in 2032.



ComEd Transmission Zone M-3 Process
Lockport 345 kV BT 1-2 CB

Need Number: ComEd-2025-018

Process Stage: Need Meeting 9/9/2025

Project Driver:

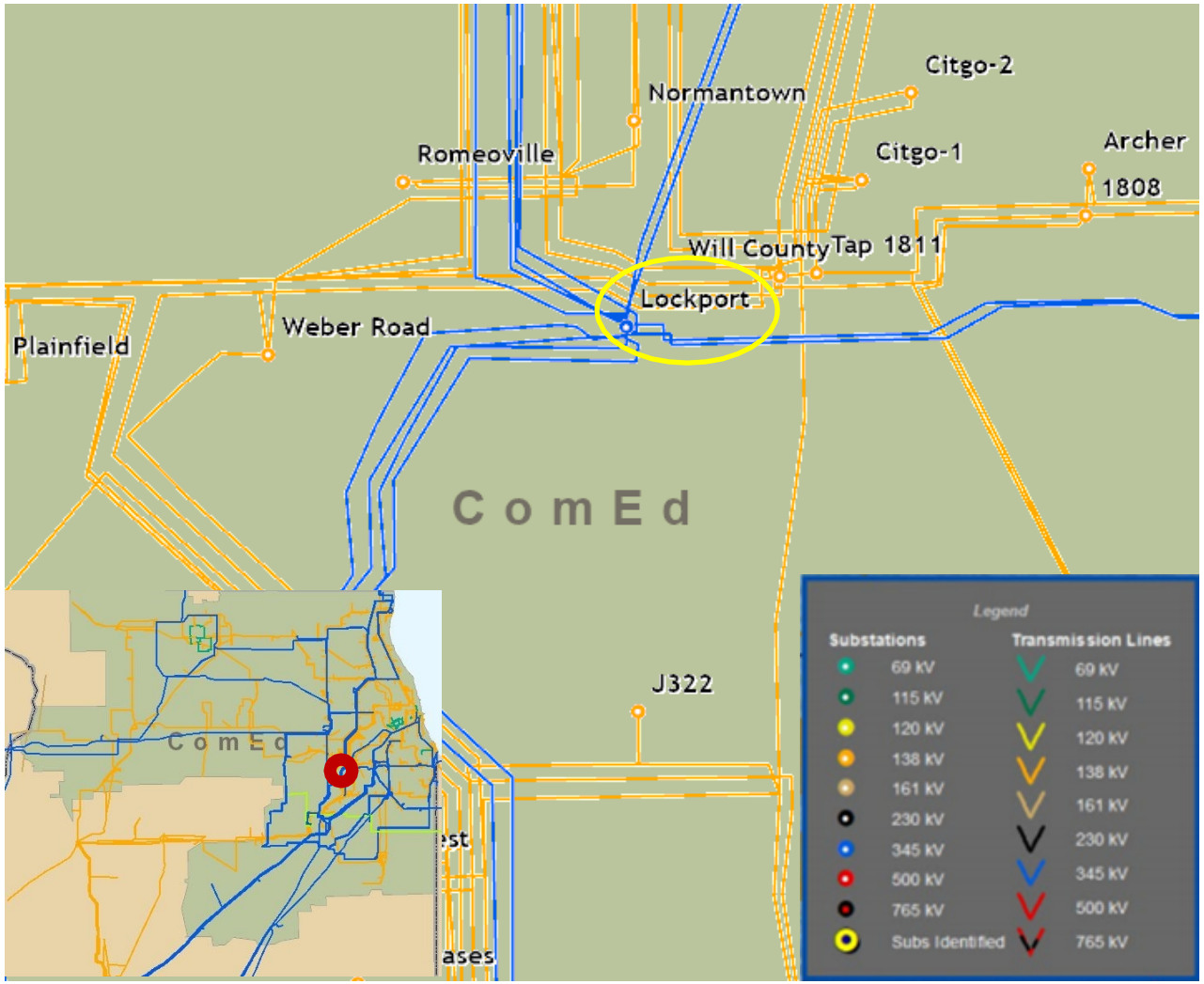
Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

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

Problem Statement:

Lockport 345 kV 1-2 BT oil circuit breaker was installed in 2001. It is in deteriorating condition, has a lack of replacement parts and has elevated maintenance costs.



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
Customer in Plano

Need Number: ComEd-2024-014

Process Stage: Solution Meeting 9/9/2025

Previously Presented: Need Meeting 8/6/2024

Project Driver:

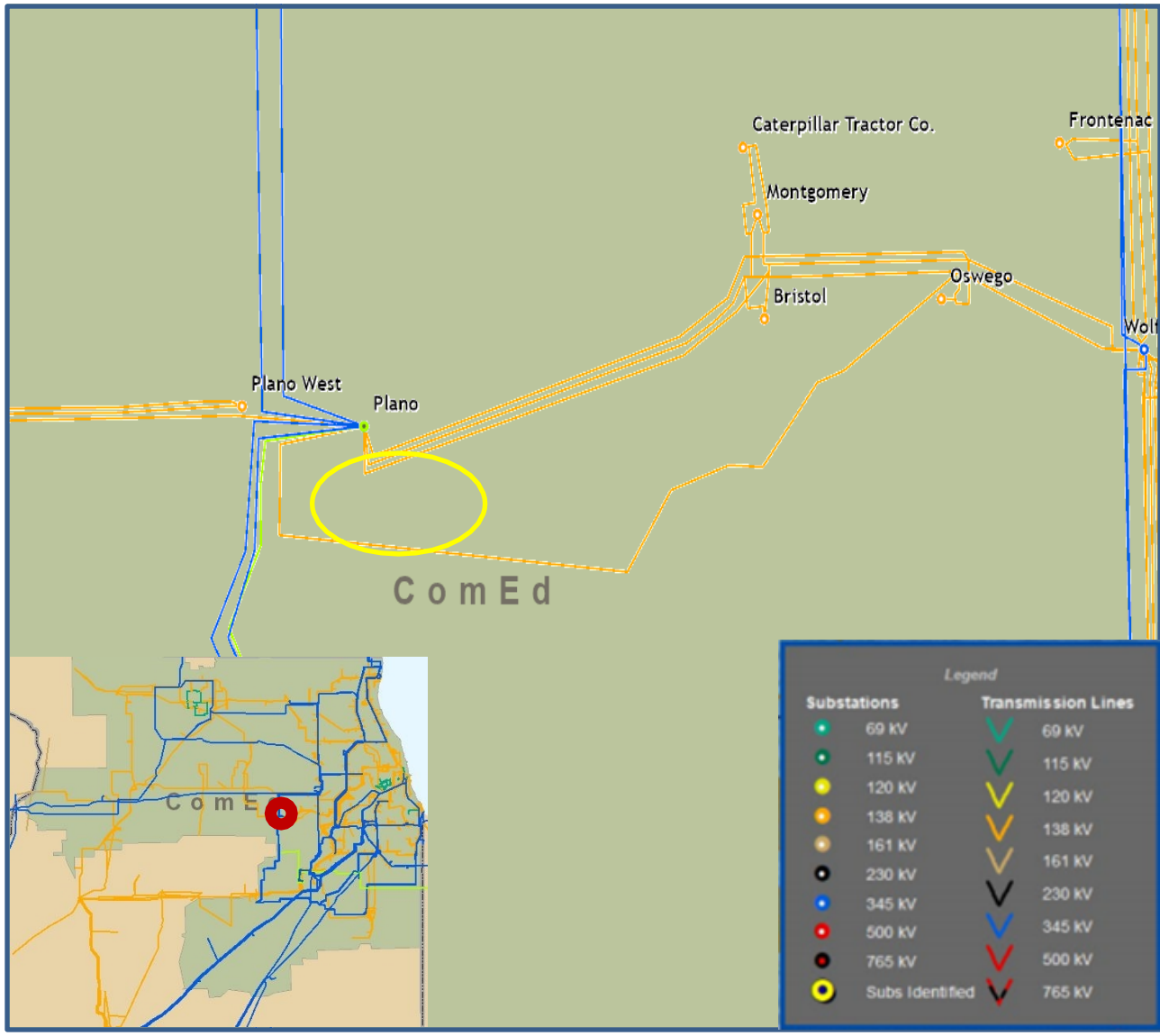
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

- A new customer is looking for transmission service in the Plano area. Initial loading is expected to be 216 MW in June 2028, 270 MW in June 2029 with an ultimate load of 480 MW in 2032.



ComEd Transmission Zone M-3 Process
Customer in Plano

Need Number: ComEd-2024-014

Process Stage: Solution Meeting 9/9/2025

Proposed Solution:

- At Plano, install 2 new 345 kV 3000A, 63kA Bus Tie CBs to create 2 new bus positions.
- From the new bus positions, extend 2 new 345 kV lines from Plano, 0.15 miles each to the customer site.
- Extend bus at Plano and install a new 345 kV 3000A, 63kA Bus Tie CB to create 2 new bus positions. Move 345 kV lines 0101 (Plano – LaSalle) & 0102 (Plano – LaSalle) to new bus positions at Plano.

Estimated Transmission cost: $35.3 M

Alternatives Considered:

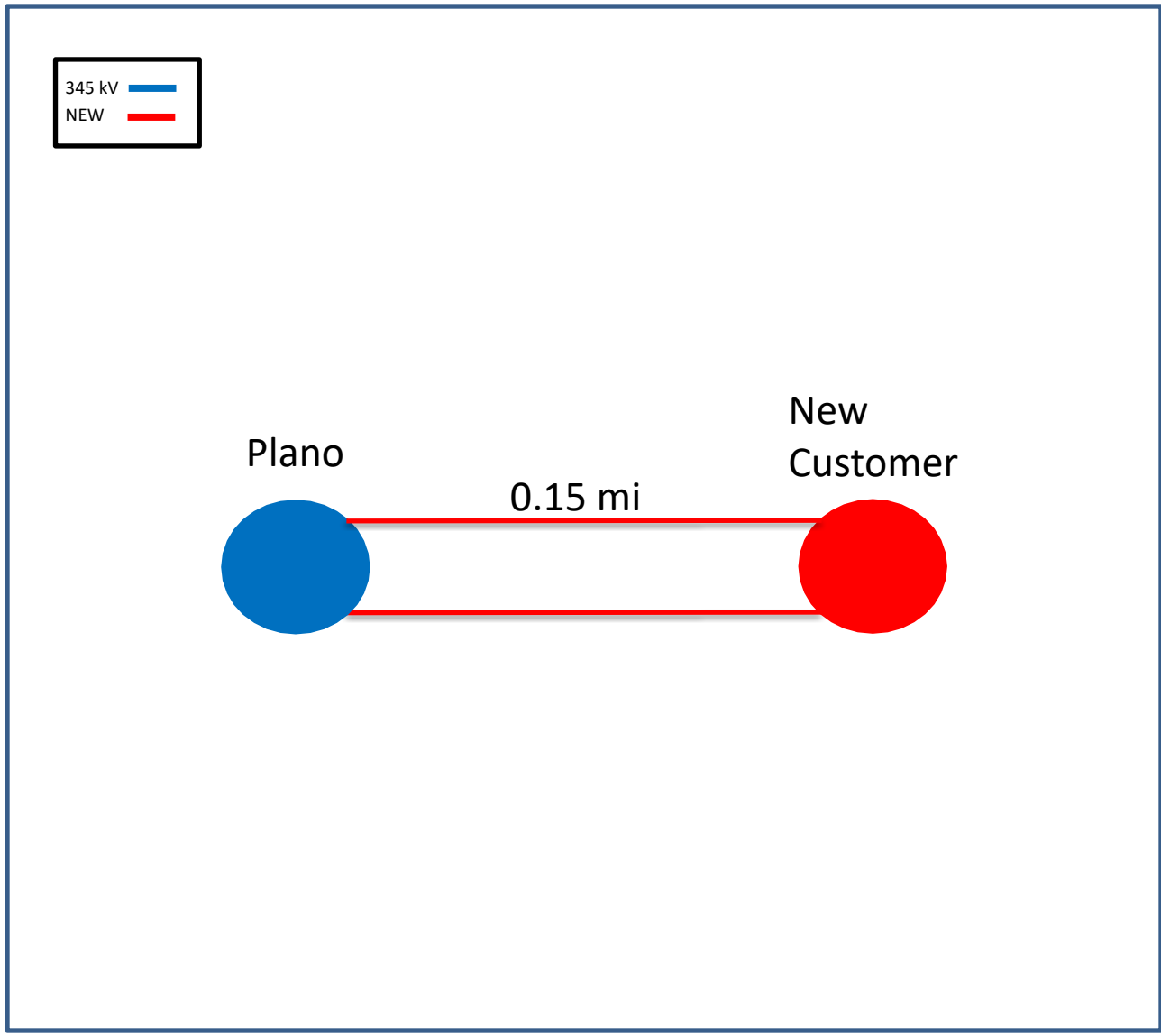
No feasible alternatives available

Projected In-Service:

5/1/2028

Project Status: Conceptual

Model: 2029 RTEP



ComEd Transmission Zone M-3 Process
Customer in Hoffman Estates

Need Number: ComEd-2024-016

Process Stage: Solution Meeting 9/9/2025

Previously Presented: Need Meeting 8/6/2024

Project Driver:

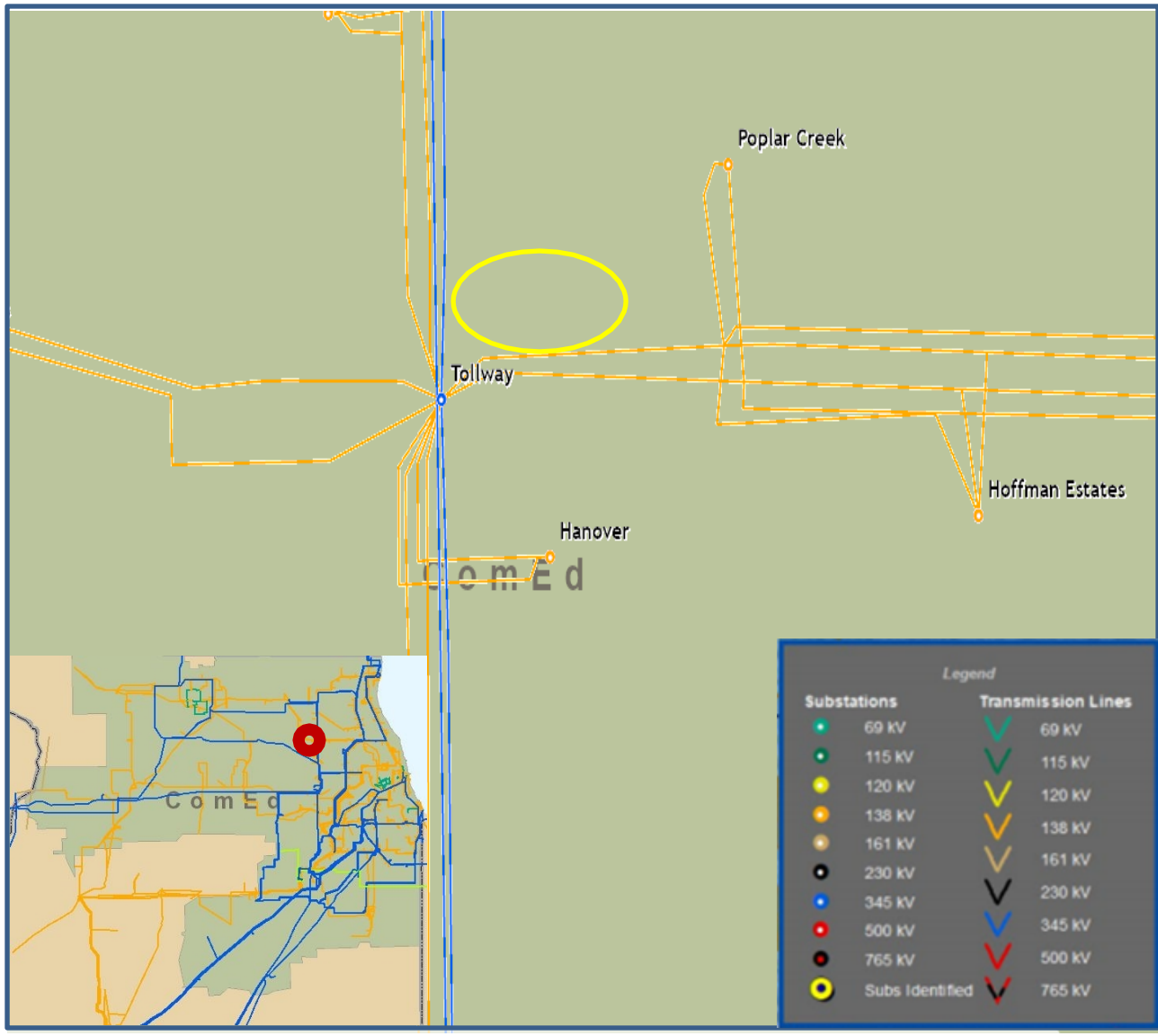
Customer Service

Specific Assumption Reference:

- New transmission customer interconnections or modification to an existing customer

Problem Statement:

- A new customer is looking for transmission service in the Hoffman Estates area. Initial loading is expected to be 225 MW in September 2028, 306 MW in June 2029 with an ultimate load of 612 MW in 2031.



ComEd Transmission Zone M-3 Process
Customer in Hoffman Estates

Need Number: ComEd-2024-016

Process Stage: Solution Meeting 9/9/2025

Proposed Solution:

- Cut into existing 345kV Libertyville – Tollway line and 345 kV Silver Lake – Wayne line. Extend 4 lines 0.5 miles each to a new Beverly Road substation.
- Beverly Road substation will be initially installed as a 10-345 kV CBs in a double ring bus configuration, ultimately expandable to a breaker and a half configuration.
- Install 2-150 MVAR, 345kV capacitor banks at new Beverly Road substation.

Estimated Transmission cost: $84.8M

Alternatives Considered:

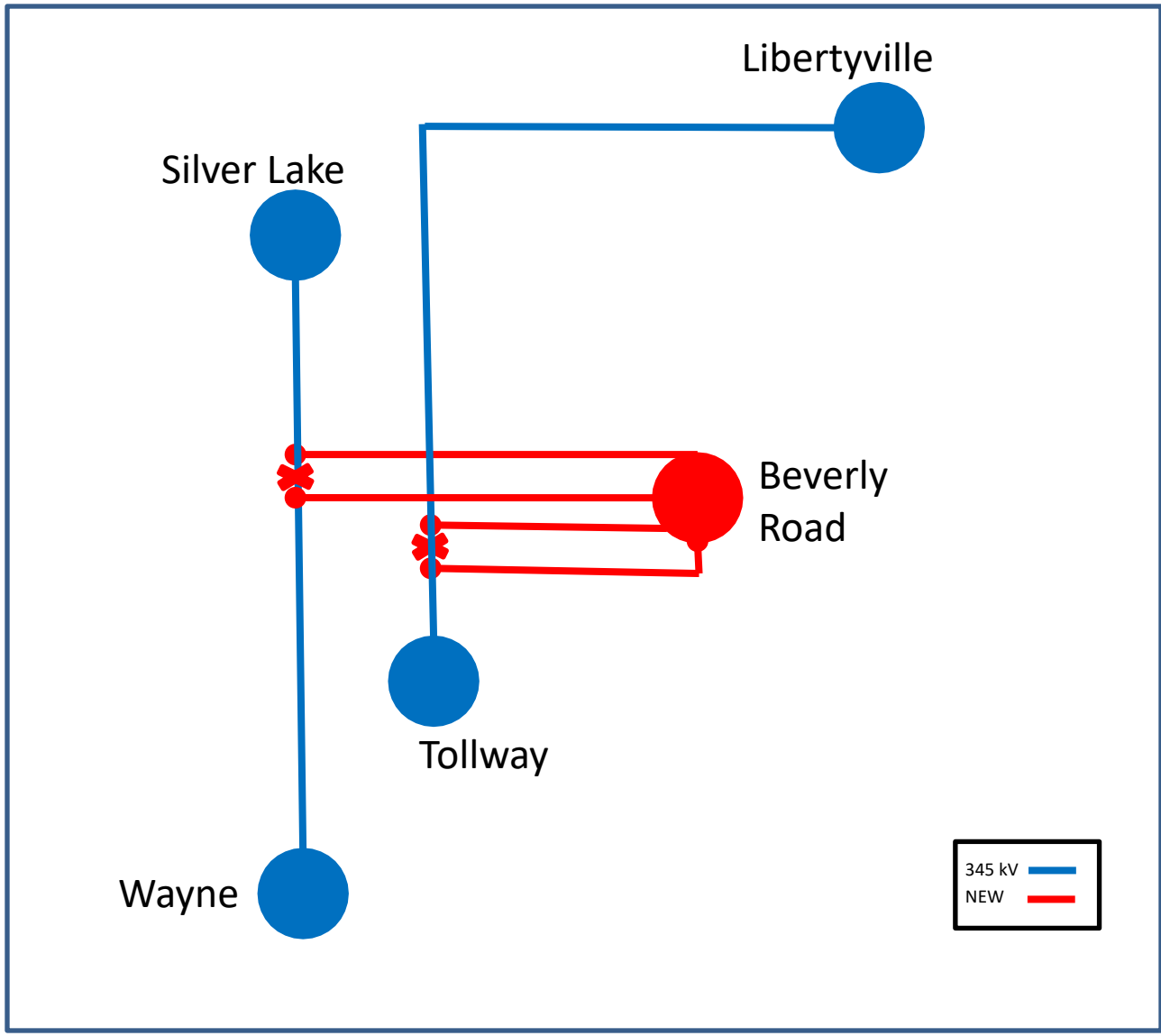
No feasible alternatives available

Projected In-Service:

9/1/2028

Project Status: Conceptual

Model: 2029 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

8/29/2025 – V1 – Original version posted to pjm.com