

vermont electric power company



Substation Condition Assessment Project - North Rutland Substation

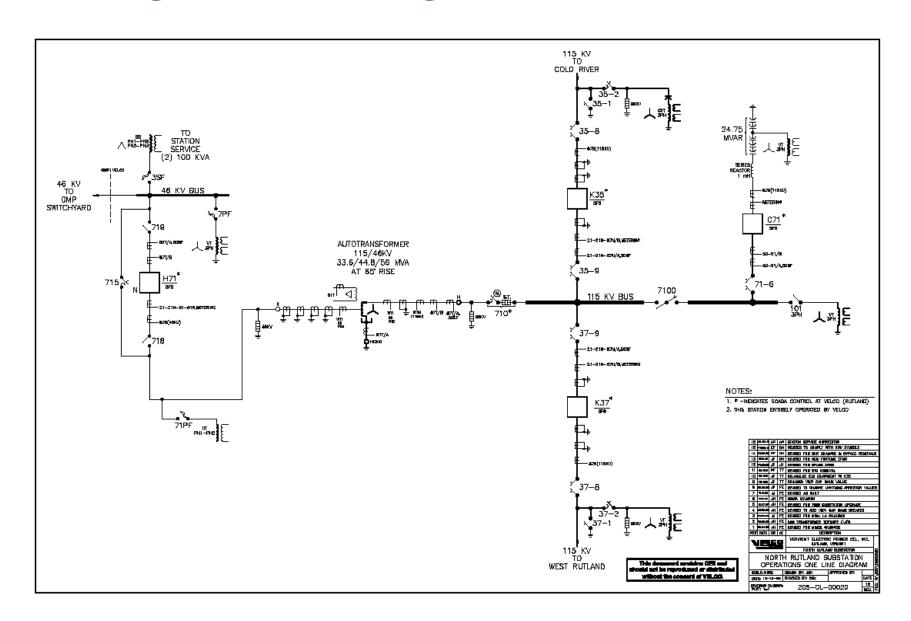
Operating Committee
June 17, 2021

Aerial photograph

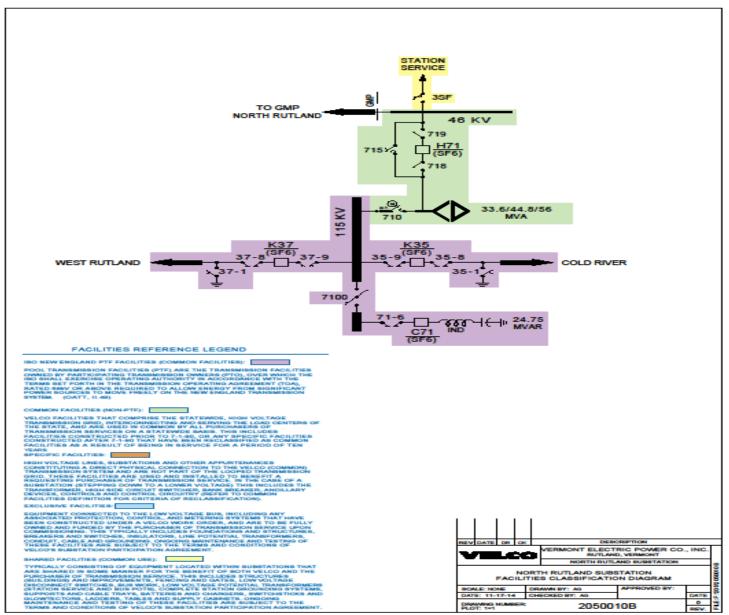




Existing one line diagram



Existing facility classification diagram





Project scope of work

- Replace the existing control building with a larger control building
- Replace transformer high-side circuit switcher with a circuit breaker or circuit switcher
- Replace and expand the existing substation fence
- Maintenance related improvements
 - Replace the protection and control system
 - Replace AC and DC station service
 - Install power transformer and circuit breaker monitoring systems
 - PCB cleanup and disposal
 - Install transformer passive secondary oil containment system
- Project will require a temporary substation arrangement in order to perform the construction activities



Temporary substation options considered

- Option#1 Installation of full temporary substation and perform in-kind replacements
- Option#2 Utilization of existing 46kV for the temporary substation and relocate power transformer, C71 & K35

- Option#3 Utilization of existing 46kV for the temporary substation and relocate power transformer & K37
- Option#4 (Chosen) Utilization of existing 46kV for the temporary substation and relocate power transformer



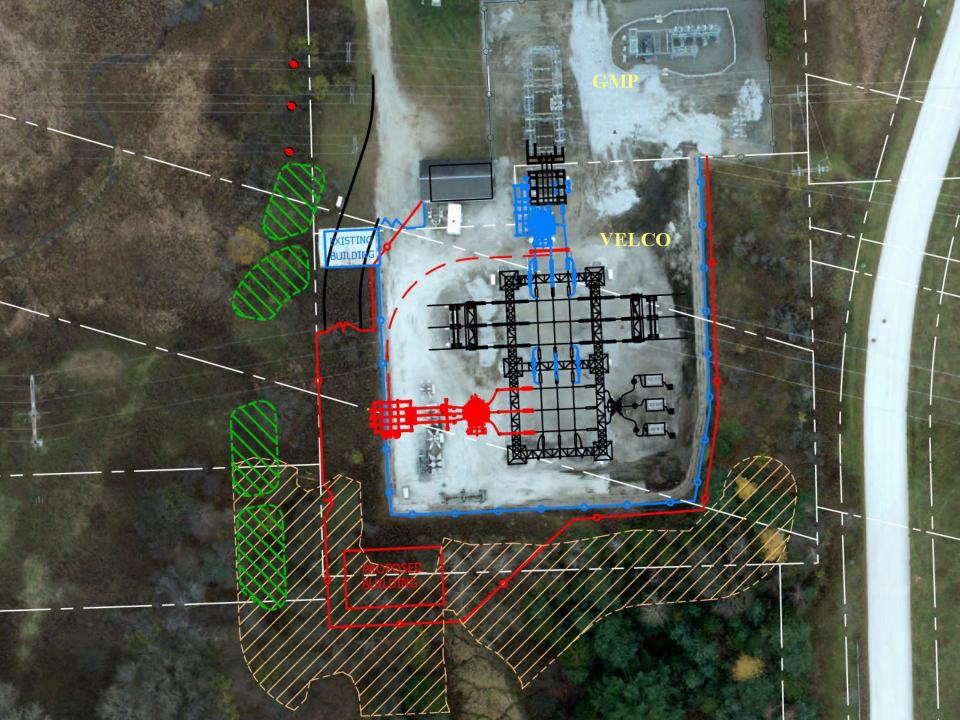
Additional land purchase

- Two lots: 26.4 ac and 5.4 ac
- Purchase price of \$175k



45 Day Notice Ortho





Schedule & cost estimate

- Schedule
 - May 3, 2021 45 Day Notice Filing
 - July 2021 248 Filing
 - February 2022 Start of construction
 - November 2022 Commission
- Cost estimate
 - Class B, \$13M, assumes 25% contingency

