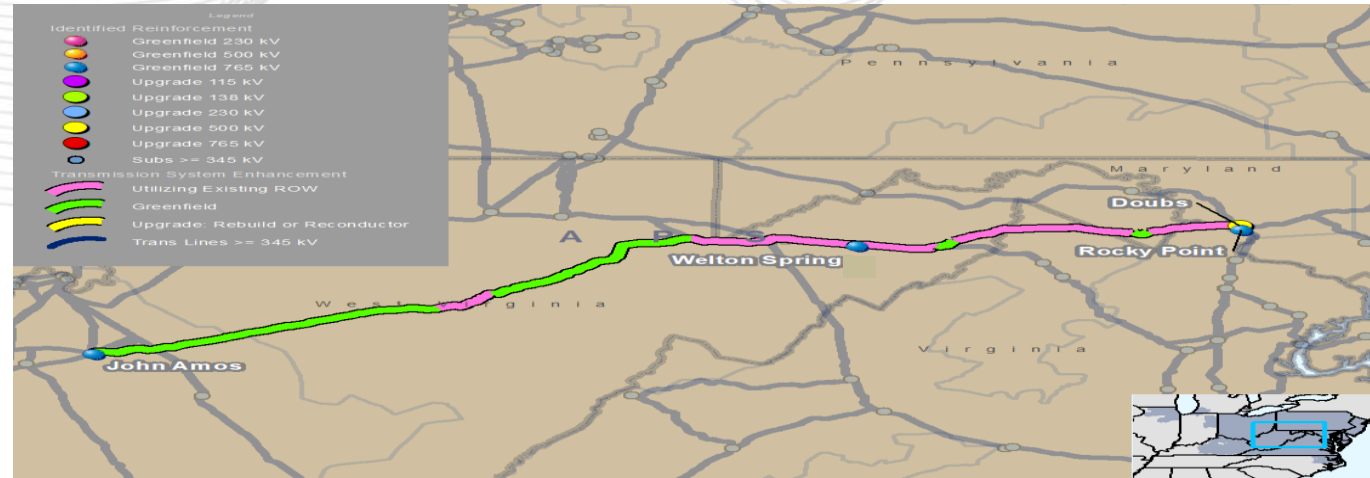
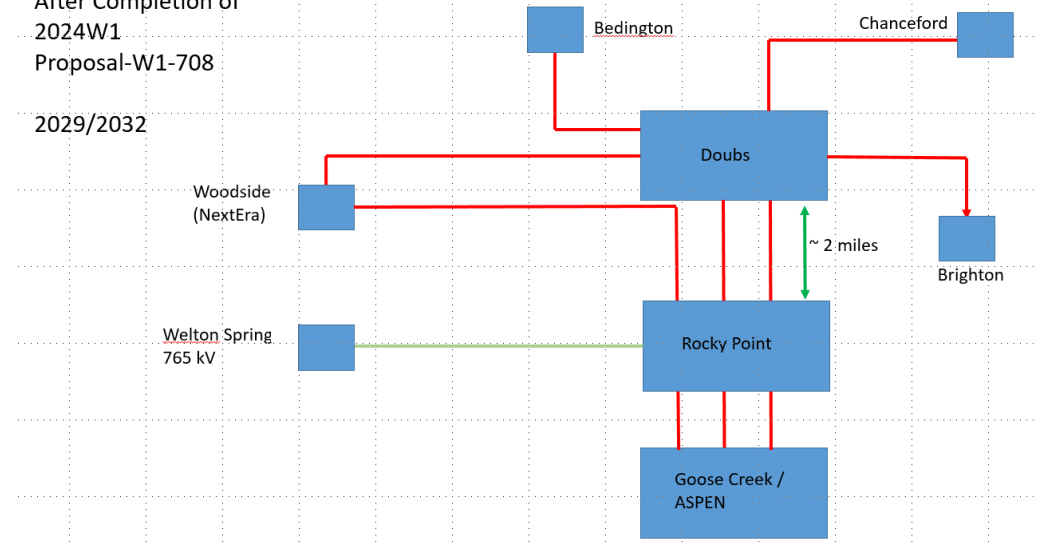


Recommended Solution: 2024-W1-708

- Add one 765 kV breaker at Amos Substation to expand the breaker and a half scheme to accommodate the new Amos - Welton Spring 765 kV Line **\$30.87M (b4000.1)**
- Construct a new 175 miles Amos to Welton Spring 765 kV line. (Roughly 30 miles in AEP Section) **\$150M (b4000.2)**
- Construct a new 175 miles Amos to Welton Spring 765 kV line. (Roughly 145 miles in APS/FE Section) **\$725M (b4000.3)**
- Construct a new 765 kV switchyard (Welton Spring) **\$92.28M (b4000.4)**
- Install four 250 MVAR shunt capacitors, and a +/-500 MVAR STATCOM at Welton Spring 765 kV substation **\$121.54M (b4000.5)**
- Construct a new 86 miles Welton Spring to Rocky Point 765 kV line (Welton Spring to DVP local area, roughly 70.7 miles) **\$353.5M (b4000.6)**
- Construct a new 86 miles Welton Spring to Rocky Point 765 kV line (in DVP local area/Millville to Lovettsville section, roughly 10.5 miles) **\$52.5M (b4000.7)**

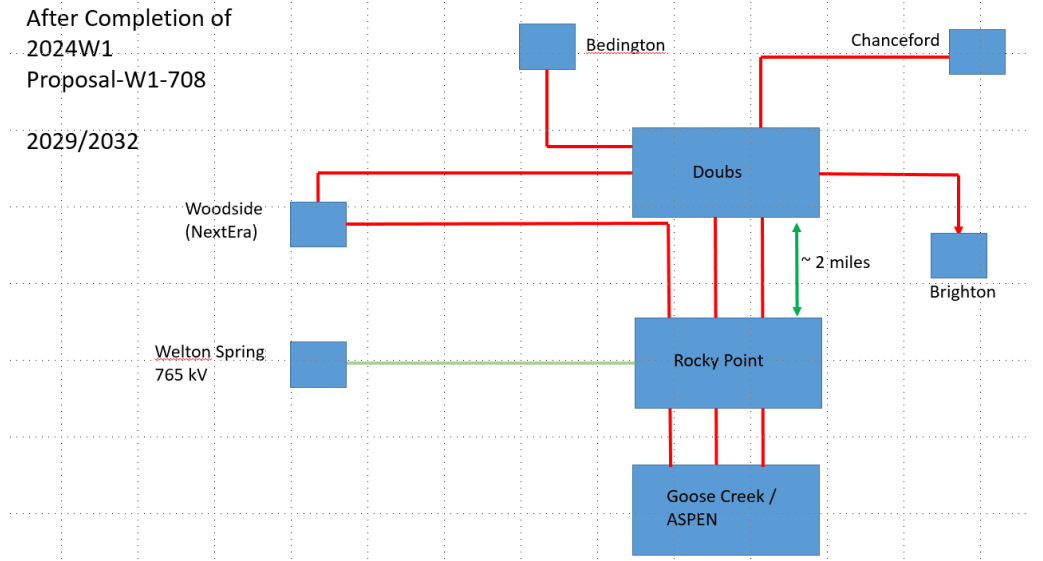
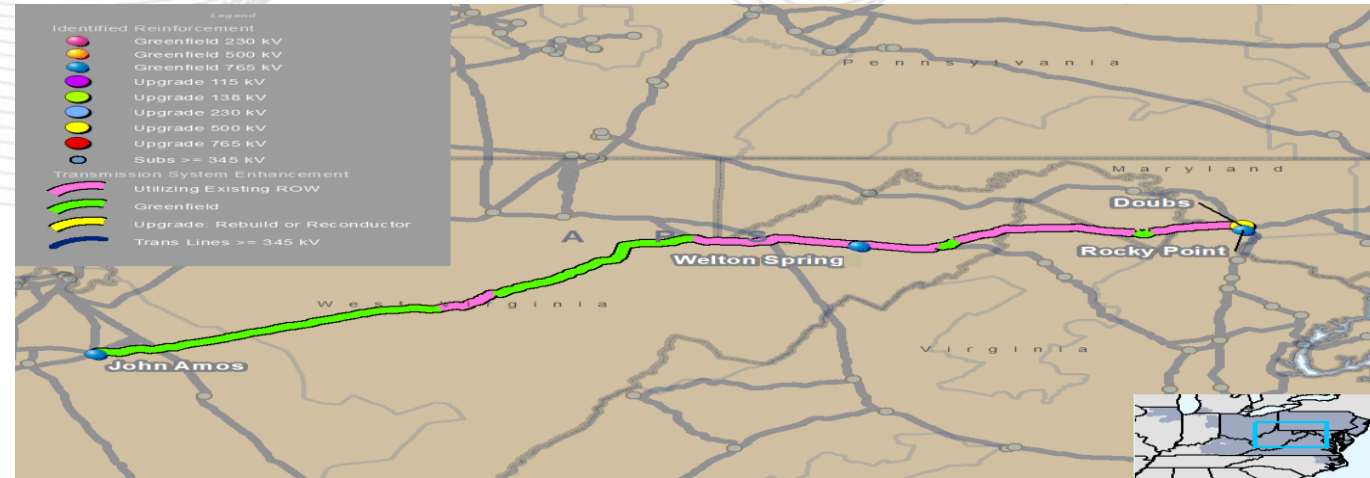


After Completion of
2024W1
Proposal-W1-708
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Recommended Solution (Cont): 2024-W1-708

- Construct a new 86 miles Welton Spring to Rocky Point 765 kV line (DVP local area to Rocky Point, roughly 4.8 miles) **\$24M (b4000.8)**
- Construct a new substation called Rocky Point with a 765 kV and a 500 kV yard. Loop in the Doubs - Goose Creek 500 kV line, the Doubs - Aspen 500 kV line, and the Woodside – Goose Creek 500 kV line. Install two 765/500 kV transformer at Rocky Point substation **\$254.7M (b4000.9)**
- Install four 250 MVAR cap banks (two on 765 and two on 500 kV side) and a +/-500 MVAR STATCOM on the 765 kV Rocky Point yard **\$121M (b4000.10)**
- Expand Black Oak Substation to accommodate the connection of the 502 Jct - Woodside 500 kV line and loop the 502 Jct – Woodside 500 kV line into the Black Oak substation by constructing ~0.85 miles of new 500 kV line into and out of Black Oak 500 kV substation **\$19.23M (b4000.11)**



Recommended Solution (Cont): 2024-W1-708

- Upgrade the terminal equipment on the Doubs No. 1 500/230 kV Transformer
\$0.43M (b4000.12)

Existing Facility Rating:

Branch	SN/SE/WN/WE (MVA)
John Amos – Welton Spring – Rocky Point	N/A

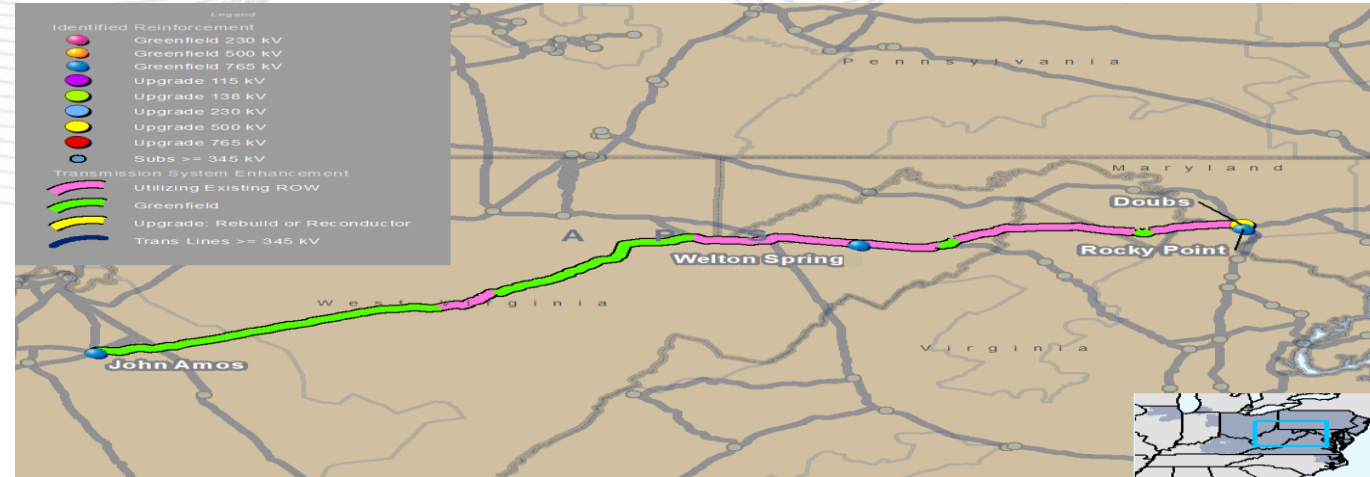
Preliminary Facility Rating:

Branch	SN/SE/WN/WE (MVA)
John Amos – Welton Spring – Rocky Point	6743/7253/7512/7918

Estimated Cost: \$1,945.05 M

Required IS Date: 6/1/2029

Projected IS Date: 12/1/2029



After Completion of
2024W1
Proposal-W1-708

2029/2032

