

**Option B:
Rebuild Existing Lines**

- Wreck and Rebuild Existing Lines for Double Circuit Remington-Warrenton and Wheeler-Gainesville
- Convert Gainesville-Loudoun to 230kV; reconfigure to bypass Gainesville
- Substation expansion at Warrenton, add switching station at Wheeler

Convert 115 kV to 230 kV
(no work required in right-of-way except at substations)

Wreck/Rebuild - remove existing structures and rebuild new double circuit structures in same centerline (would require additional temporary right-of-way, 20' one side; taller structures)

Wreck/Rebuild - remove existing structures and rebuild new double circuit structures in same centerline (would require additional temporary right-of-way, 20' one side; taller structures)

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**DRAFT
Preliminary Route Segments
for Evaluation**



- △ Substation Expansion
- ▲ Substation
- Wreck and Rebuild
- - Convert 115 kV to 230 kV



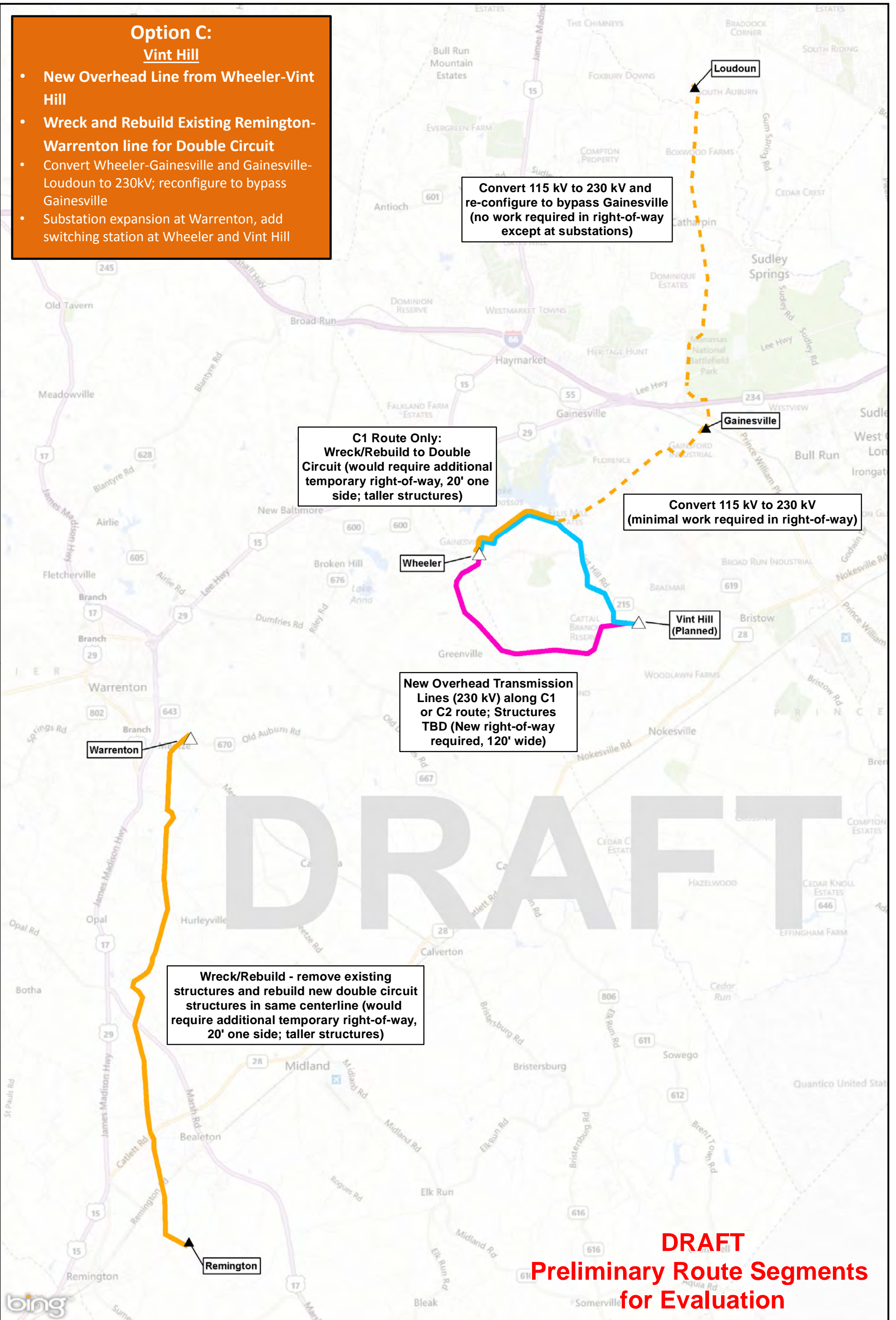
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**Option B
Warrenton Wheeler Gainesville
230 kV Reliability Project
Fauquier and Prince William Counties**



**Option C:
Vint Hill**

- New Overhead Line from Wheeler-Vint Hill
- Wreck and Rebuild Existing Remington-Warrenton line for Double Circuit
- Convert Wheeler-Gainesville and Gainesville-Loudoun to 230kV; reconfigure to bypass Gainesville
- Substation expansion at Warrenton, add switching station at Wheeler and Vint Hill



Convert 115 kV to 230 kV and re-configure to bypass Gainesville (no work required in right-of-way except at substations)

C1 Route Only: Wreck/Rebuild to Double Circuit (would require additional temporary right-of-way, 20' one side; taller structures)

Convert 115 kV to 230 kV (minimal work required in right-of-way)

New Overhead Transmission Lines (230 kV) along C1 or C2 route; Structures TBD (New right-of-way required, 120' wide)

Wreck/Rebuild - remove existing structures and rebuild new double circuit structures in same centerline (would require additional temporary right-of-way, 20' one side; taller structures)

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Preliminary Route Segments for Evaluation

△ Substation Expansion	◆ Convert 115 kV to 230 kV
▲ Substation	— C1
— Wreck/Rebuild	— C2

1:120,000 0 1 2 Miles

Option C
Warrenton Wheeler Gainesville
230 kV Reliability Project
Fauquier and Prince William Counties

**Option A:
Warrenton to Wheeler**

- **Not recommended at this time:
New Underground Line or
New Overhead Line**
- Re-conductor Remington –Warrenton line
- Convert Wheeler-Gainesville and Gainesville-Loudoun to 230kV;
- reconfigure to bypass Gainesville
- Substation expansion at Warrenton, add switching station at Wheeler

Convert 115 kV to 230 kV
(no work required in right-of-way
except at substations)

Convert and uprate 115 kV to 230 kV
(minimal work required in right-of-way)

New Overhead Transmission
Lines (230 kV); Structures
TBD (New right-of-way
required, 120' wide)

Underground
Route

Re-conductor (Install new
wires and insulators on existing
poles; some structures would
have to be replaced or modified)

DRAFT
Preliminary Route Segments;
Not recommended at this time



△	Substation Expansion	—	Alt Route A-1
▲	Substation	—	Alt Route A-2
—	Reconductor	—	Alt Route A-3
—	Convert 115 kV to 230 kV	—	Alt Route A-4
—	Underground Route		

1:120,000

0 1 2 Miles

Option A
Warrenton Wheeler Gainesville
230 kV Reliability Project
Fauquier and Prince William Counties