ALTERNATIVE RETAINED FOR DETAILED EVALUATION

GREEN -- SPUR ALTERNATIVE

US 301 Project Development

DESCRIPTION OF THE GREEN + SPUR ALTERNATIVE 4 LANES - LIMITED ACCESS - ON NEW LOCATION

The Green + Spur Alternative would provide a four-lane, limited access tolled highway constructed on new location, extending north from the Delaware/Maryland state line to north of Armstrong Corner Road, north of Middletown, then continue generally northeast to tie into SR 1 north of the Biddles Corner Toll Plaza. A two-lane, limited access spur roadway would extend from south of Armstrong Corner Road to just south of the Summit Bridge. The North Option extends north-northeast passing over Boyds Corner Road, about 550 feet east of the intersection of Boyds Corner Road and Ratledge Road and continues north-northeast before curving east, south of the Airmont community and tying into SR 1. The South Option extends in a northeast direction passing approximately 600 feet west of Cedar Lane School then passes over Boyds Corner Road and between the proposed Village of Bayberry and Scott Run Business Park at Whitehall before tying into SR 1. Interchanges would be provided at Levels road, existing US 301 / Armstrong Corner Road and Jamison Corner Road, The Spur Road would provide interchanges at SR 896 / SR 15, south of Summit Bridge and an interchange or intersection at the Spur Road / Bethel Church Road Extended, serving traffic to and from the north.

Note: The Green North Alternative has been shifted to the west, east of Ratledge Road, to reduce impacts to a large wetland area. A visual earth berm is proposed between new US 301 and the residences along Ratledge Road and the Crystal Run Farm community.

GREEN+SPUR Alternative at Airmont (Looking east along Hyetts Corner Road)



Existing Condition



Rendering of GREEN NORTH Alternative (Green South in background)







Option 1

Description

Provides diamond interchange between new US 301 and Armstrong Corner Road



THEN - SPUR

Advantages

- Lower wetland impacts than Options 2, 2A and 3 quires acquisition of Middleto Mid-range waters of the US impacts
- **Utilizes existing Armstrong Corner Road**
- alignment (reduces costs)
- Located farther away from Springmill community than Options 2, 2A and 3 Located farther away from Armstrong-Walker house (1,400 feet) than options
- 2.2A and 3 Uses signal at Armstrong Corner Road for local access from existing US 301 to new US 301 (minimizes the number of traffic signals on existing US 301)
- Provides greatest spacing between signalized intersections on existing US 301
- Reduces total ROW impacts compared to Option 2
- Mainline goes under Armstrong Corner Road, requiring fewer bridges than Options 2 and 2A

Disadvantages

- Baptist Church impacts both church buildings and parking lot
- Spacing between Spur and new US 301/Armstrong Corner Road interchange barely meets minimum
- Does not provide direct tie between Armstrong Corner Road and Bohemia Mill Road
- Locates new US 301 Interchange on local road (Armstrong Corner) rather than arterial (existing US 301)
- Highest forestland impacts
- Highest habitat area impacts
- Impacts on Midland Farms cor

Option 2A Description

FOUR INTERCHANGE OPTIONS IN ARMSTRONG CORNER ROAD AREA

 Provides a right-in / right-out interchange between new and existing US 301. The northbound entrance and exit ramps would leasted as wising US 201 approximately. northbound entrance and exit ramps would be located on existing US 301 approximately 1,000 feet north of Armstrong Corner Road. The southbound entrance and exit ramps would be located on existing US 301, approximately 3,500 feet north of Armstrong Corner Road. Two new signalized intersections on existing US 301 would control exit and entry traffic. Option 2A



Advantages

- Avoids direct impacts to Middletown Baptist Church property (620 feet from Church building and 170 feet from parking area)
- Locates new US 301 interchange on an arterial (existing US 301) rather than a local road (Armstrong Corner Road)
- 2 additional signals to be placed on existing US 301, but at a greater spacing than Option 2
- Does not require relocation of existing US 301, resulting in decreased construction and right-of-way cost as compared to Option 2

Disadvantages

- Higher wetland and waters of the US mpacts than Options 1 & 2
- Not a traditional type interchange Wider bridge needed over existing US 301 because of deceleration lane for loon ramp
- Additional turn lanes on existing US 301 for access ramps and loops to new
- Impacts on Midland Farms community
- Closer to Armstrong-Walker house (800 feet) and Springmill (770 feet) than

Option 2

Provides diamond interchange between new US 301 and relocated existing US 301



- Less wetland impacts than Options 2A
- interchange and new US 301/relocated existing US 301 interchange
- Avoids impacts to Middletown Baptist Church buildings, but impacts a portion of the church parking area
- Provides direct connection between Armstrong Corner Road and Bohemia Mill Road
- Locates new US 301 interchange on arterial (existing US 301) rather than local road (Armstrong Corner Road)

Disadvantages

- Highest waters of the US impacts
- Results in greater ROW and relocation impacts along existing US 301 than Options 1, 2A and 3 (increased costs)
- Increased construction cost due to onal structures and relocation of existing US 301
- Leads to less than desirable spacing of three signalized intersections on US 301 Impacts on Midland Farms commu
- Reduces distance between new US 301 and Springmill (from 1,300 to 1,100
- Closer to Armstrong-Walker house (1,100 feet) and Springmill (940 feet)

	Distance to Middletown Baptist Church Buildings	Distance to Middletown Baptist Church Parking Lot	Distance to Springmill Community	Distance to Historic Armstrong-Walker House
OPTION 1	Requires Location of Church	Requires Location of Church	1,300 feet	1,400 feet
OPTION 2	350 feet	Impacts a portion of the parking lot	940 feet	1,100 feet
OPTION 2A	620 feet	170 feet	770 feet	800 feet
OPTION 3	450 feet	190 feet	670 feet	540 feet
OI IION 3	730 1661	130 1661	0701661	370 1661

Option 3

Provides diamond interchange between the new US 301 and Armstrong Corner Road (similar to Option 1), but alignment shifted slightly to southeast to avoid



Lower waters of the US impacts than Options 1, 2 and 2A

- Lower DNREC Sub-Aqueous Lands impacts than Options 2&2A
- Increases distance from new US 301 to Post and Rail Farms community
- Avoids direct impacts to Middletow Baptist Church property (450 feet from church building and 190 feet from parking lot)
- Does not require additional traffic signals on existing US 301
- Provides direct connection between Armstrong Corner Road and Bohemi Mill Road

- Greater wetland impacts than Options 1. 2 and 2A
- Impacts previously undisturbed, low quality wetlands NW of Springmill Lower forest impacts than Options 1&2
 Impacts on Midland Farms community
 - Reduces distance between new US 301 and Springmill community to 670 feet (1300 and 940 feet for Options 1&2, respectively
 - Locates new US 301 interchange on local road (Armstrong Corner Road) rather than arterial (existing US 301)
 - Reduces distance between new US 301 and the Armstrong Walker House historic site to 540 feet (1,400 and 1,100 feet for Options 1 and 2, respectively)
 - Middletown Baptist Church buildings are located 300 feet from new ramp and 450 feet from new US 301
 - Closer to Springmill (770 feet) than Options 1,2 and 2A

NOTE: Options 1,2,2A & 3 in Armstrong Corner Road Area apply to Purple + Spur and Green + Spur Alternative See Display 16 for Spur Road - Armstrong Corner Road to Summit Bridge and Interchange Options - South of Summit Bridge (SR 896 / SR15) for Green + Spur and Purple + Spur Alternatives