



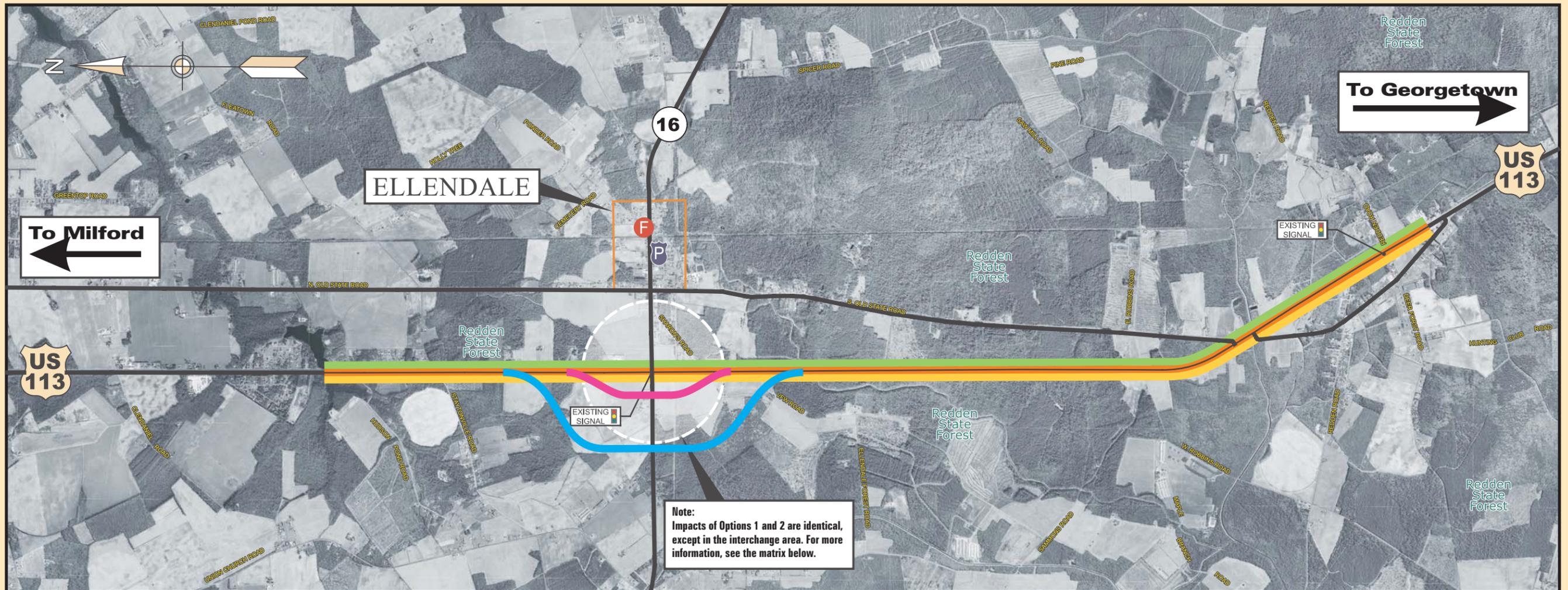
ALTERNATIVES / IMPACTS / WORKING GROUP RECOMMENDATIONS

113

US 113 North / South Study

May / June 2005

Ellendale Area - Preliminary Alternatives



On-Alignment Alternatives		Bypass Alternatives	
	Option 1		Close-In Western Bypass
	Option 2		Far Western Bypass
	Option 3 (Third Lane)		



Ellendale Area - Working Group Recommendations

ON-ALIGNMENT ALTERNATIVES

- The Working Group was unanimous in recommending to DeIDOT that On-Alignment Option 1 be retained for detailed study.
- The Working Group was unanimous in recommending to DeIDOT that On-Alignment Option 2 NOT be retained for further consideration.
- The Working Group was unanimous in recommending to DeIDOT that BOTH the SR 40 - Redden Road overpass and the SR 565 - Redden/Deer Forest Road overpass be retained for detailed study.
- The Working Group unanimously recommended to DeIDOT that the third lane option NOT be retained for further consideration.

WEST ALTERNATIVES

- The Working Group was unanimous in recommending to DeIDOT that the far western bypass alternative be retained for detailed study.
- The Working Group was unanimous in recommending to DeIDOT that the closer in western bypass alternative NOT be retained for further consideration.

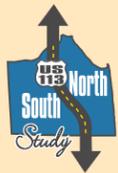


Ellendale Area - Impact Comparison of Preliminary Alternatives - Environmental

Considerations	No Build	Option 1	Option 2	Option 3 (Third Lane)	Close-In Western Bypass	Far Western Bypass
Consideration of Wetlands and Waters of the US Required by Section 404 of the Clean Water Act and Delaware State Law. Regulatory Agencies: US Army, Corps of Engineers and Delaware Department of Natural Resources and Environmental Control (DNREC)						
Wetlands (acres)		3	3	1	13	41
Waters of the US (linear feet)		1,018	1,018	1,308	4,028	5,536
Consideration of Historic and Archeological Resources Required by Section 106 of the National Historic Preservation Act. Regulatory Agency: Delaware State Historic Preservation Office.						
Number of Known Historic Buildings, Structures, Objects, and Districts	0	1	1	0	0	2
Number of Known Archeological Sites	0	0	0	0	0	0
Number of Potentially Historic Buildings, Structures, Objects, and Districts - currently being evaluated	0	30	30	9	37	28
Number of Potentially Significant Archeological Sites - currently being evaluated	0	6	6	0	7	7
Number of Cemeteries (Historic and Non-historic)	0	0	0	0	0	0
Consideration of Section 4(f) Properties Required by Section 4(f) of the Department of Transportation Act of 1966. Regulatory Agency: US Department of Transportation						
Number of Publicly-Owned Parks and Recreation Areas	0	1	1	1	1	1
Number of Publicly-Owned Wildlife and Waterfowl Refuges	NONE	NONE	NONE	NONE	NONE	NONE
Number of Historic Properties - same as number of Known Historic Buildings, Structures, Objects and Districts (above)	0	1	1	0	0	2
Consideration of Section 6(f) Properties Required by Section 6(f) of the Land and Water Conservation Fund Act. Regulatory Agency: US Department of Interior.						
Properties purchased by Land & Water Conservation Fund (LWCF) (number)	NONE	NONE	NONE	NONE	NONE	NONE
Area (acres)	0	0	0	0	0	0
Consideration of Rare, Threatened and Endangered Species Required by Endangered Species Act. Regulatory Agencies: US Fish & Wildlife Service and Delaware Department of Natural Resources and Environmental Control (DNREC)						
Potential Rare, Threatened and Endangered Species Areas (acres)	0	TBD	TBD	TBD	TBD	TBD
Other Considerations To be considered under general provisions of the National Environmental Policy Act (NEPA).						
Agricultural Districts (Ten-Year) (number of properties)	0	0	0	0	2	2
(acres within properties)	0	0	0	0	3	3
Agricultural Preservation Easements (Permanent) (number of properties)	0	0	0	0	0	0
(acres within properties)	0	0	0	0	0	0
Forestland: 2002 Land Use (acres)	0	5	5	0	17	20
State Forest Lands	0	3	3	0	11	11

* with Road 40 over 113 option add 4 properties effected

* with Road 565 over 113 option add 2 properties effected



Ellendale Area - Impact Comparison of Preliminary Alternatives - Engineering

Considerations	No Build	Option 1	Option 2	Option 3 (Third Lane)	Close-In Western Bypass	Far Western Bypass
Existing US 113 Length (linear feet, miles)	7 Miles	7 Miles	7 Miles	7 Miles	7 Miles	7 Miles
Proposed US 113 (Off-Alignment) Length (linear feet, miles) <i>(Distance off-alignment 'substitutes' for existing alignment)</i>	N/A	N/A	N/A	N/A	1.32 Miles	2.47 Miles
Existing US 113 Converted to Service Roads (linear feet, miles)		11,056' 2.09 Miles	11,456' 2.17 Miles	N/A	13,136' = 2.5 Miles	13,376' = 2.53 Miles
Total Length of Alternative		7 Miles	7 Miles	7 Miles	7.07 Miles	7.49 Miles
Improves Safety (Y/N) Length (linear feet, miles)						
Interchange(s)						
Number		2	2	1	2	2
1 Location(s)		US 113 / SR 16, Beach Highway	US 113 / SR 16, Beach Highway	US 113/ SR 16, Beach Highway	US 113 / SR 16, Beach Highway	US 113 / SR 16, Beach Highway
Type		Diamond	Partial Cloverleaf	Partial Cloverleaf	Modified Diamond	Modified Diamond
2 Location(s)		US 113 / Sussex Road 213, Old State Road / McColleys Chapel Road	US 113 / Sussex Road 213, Old State Road / McColleys Chapel Road		US 113 / Sussex Road 213, Old State Road / McColleys Chapel Road	US 113 / Sussex Road 213, Old State Road / McColleys Chapel Road
Type		Right-in / Right-out	Right-in / Right-out		Right-in / Right-out	Right-in / Right-out
Overpass(es)						
Number		2	2	N/A	2	3
1 Location(s)		US 113 / Sussex Road 224, Staytonville Road / Fleatown Road	US 113 / Sussex Road 224, Staytonville Road / Fleatown Road		US 113 / Sussex Road 224, Staytonville Road / Fleatown Road	US 113 / Sussex Road 224, Staytonville Road / Fleatown Road
2 Location(s)		US 113 / Sussex Road 565, Redden Road / Deer Forest Road	US 113 / Sussex Road 565, Redden Road / Deer Forest Road		US 113 / Sussex Road 565, Redden Road / Deer Forest Road	US 113 / Sussex Road 607 VFW Road
3 Location(s)						US 113 / Sussex Road 565, Redden Road / Deer Forest Road
Right-On, Right-Off						
Number		2	2	N/A	2	2
1 Location(s)		US 113 / Sussex Road 623, Hudson Pond Road, SB	US 113 / Sussex Road 623, Hudson Pond Road, SB		US 113 / Sussex Road 623, Hudson Pond Road, SB	US 113 / Sussex Road 623, Hudson Pond Road, SB
2 Location(s)		US 113 / Sussex Road 579, Robbins Road, SB	US 113 / Sussex Road 579, Robbins Road, SB		US 113 / Sussex Road 579, Robbins Road, SB	US 113 / Sussex Road 579, Robbins Road, SB
Properties (numbers of, total acres)						
<i>Properties Effected (numbers of, total acres)</i>		80*	74*	22	68*	75*
Access Rights (numbers of effected properties)		55	55	10	50	52
<i>Denial of Access (numbers of)</i>		30	26	10	25	29
Residential		26	24	5	23	26
Agricultural		2	2	0	2	3
Commercial		2	0	5	0	0
Industrial		0	0	0	0	0
<i>Modified Access (numbers of)</i>						
Residential						
Agricultural						
Commercial						
Industrial						