



ALTERNATIVES / IMPACTS / WORKING GROUP RECOMMENDATIONS

113

US 113 North / South Study

May / June 2005

Millsboro-South Area - Preliminary East Bypass Alternatives

Description of Alternatives

- All eastern bypasses begin west of the Stockley Center and continue southeast to interchange with SR 24 and cross the Indian River
- Alternative B1 then turns southwest along existing rail lines to US 113
- Alternative B2 interchanges with SR 26, then rejoins US 113 north of Frankford
- Alternative B3 also interchanges with SR 26, rejoining US 113 south of Frankford
- Alternatives B4 through B6 are variations on the portions of B1 through B3 north of Indian River that avoid NR-listed archaeological sites and the Mountaire poultry plant
- Resource constraints make an eastern bypass of Selbyville infeasible

Working Group Recommendations

EAST ALTERNATIVES

- There was consensus among the Working Group members to recommend to DeIDOT that Alternatives B1 and B6 NOT be retained for further consideration.
- There was consensus among the Working Group members to recommend to DeIDOT that Alternatives B2, B3, B4 and B5 be retained for detailed study.

Eastern Bypass Conclusions

- All eastern bypasses appear to be effective in reducing traffic on existing US 113.
- Alternatives B1 and B6 generally have the most resource impacts.
- The eastern bypasses typically have greater potential to impact historic structures than the western bypasses.
- Natural resource impacts are generally comparable between eastern and western bypasses.



ALTERNATIVES / IMPACTS / WORKING GROUP RECOMMENDATIONS



US 113 North / South Study

May / June 2005

Millsboro-South Area - Impact Comparison of Preliminary East Bypass Alternatives - Engineering

| | No Build Alternative | Millsboro East Bypasses | | | | | | | | |
|---|----------------------|-------------------------|------|------|------|------|------|------|------|------|
| | | B4-1 | B4-2 | B4-3 | B5-1 | B5-2 | B5-3 | B6-1 | B6-2 | B6-3 |
| Existing US 113 length (miles) | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 15.2 | 15.2 | 15.2 |
| Existing US 113 to be retained (miles) | 14.5 | 7.2 | 4.5 | 3.0 | 7.2 | 4.5 | 3.0 | 7.2 | 4.5 | 3.0 |
| Proposed US 113 off-alignment length (miles) | 0.0 | 8.0 | 11.4 | 12.1 | 9.7 | 13.1 | 13.8 | 11.9 | 15.3 | 16.0 |
| Total length of alternative (miles) | 14.5 | 15.2 | 15.9 | 15.0 | 17.9 | 18.6 | 17.8 | 19.1 | 19.8 | 19.0 |
| Existing US 113 converted to service roads (miles) | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Meets Project Purpose and Need (Y/N) | N | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| Property Impacts (numbers of, total acres) | | | | | | | | | | |
| Properties affected (numbers of) | 0 | 55 | 111 | 110 | 84 | 140 | 139 | 116 | 172 | 171 |
| Properties affected (total acres) | 0 | 605 | 601 | 661 | | | | | | |
| Access Rights (numbers of affected properties) | | | | | | | | | | |
| Denial of Access (numbers of) | 0 | 31 | 51 | 44 | 40 | 60 | 53 | 53 | 73 | 66 |
| Residential | | 22 | 36 | 33 | 29 | 43 | 40 | 44 | 58 | 55 |
| Agricultural | | 7 | 10 | 10 | 9 | 12 | 12 | 7 | 10 | 10 |
| Commercial | | 2 | 5 | 1 | 2 | 5 | 1 | 2 | 5 | 1 |
| Industrial | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Modified Access (numbers of) | 0 | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| Residential | | | | | | | | | | |
| Agricultural | | | | | | | | | | |
| Commercial | | | | | | | | | | |
| Industrial | | | | | | | | | | |

Note: Impacts for west bypass options include only the length of the bypass, not on-alignment improvements at either end.



ALTERNATIVES / IMPACTS / WORKING GROUP RECOMMENDATIONS



US 113 North / South Study

May / June 2005

Millsboro-South Area - Impact Comparison of Preliminary East Bypass Alternatives - Environmental

(Resource Impacts in Delaware Only)

| Considerations | No Build Alternative | Millsboro East Bypasses | | | | | | | | |
|---|----------------------|-------------------------|--------|--------|-------|--------|--------|-------|--------|--------|
| | | B4-1 | B4-2 | B4-3 | B5-1 | B5-2 | B5-3 | B6-1 | B6-2 | B6-3 |
| Wetlands and Waters of the US | | | | | | | | | | |
| Wetlands (acres) | 0 | 51 | 21 | 27 | 52 | 22 | 28 | 65 | 35 | 41 |
| Waters of the US (linear feet) | 0 | 5,200 | 16,400 | 20,100 | 5,700 | 16,400 | 20,100 | 8,900 | 19,100 | 23,700 |
| Historic and Archeological Resources | | | | | | | | | | |
| Number of Known Historic Buildings, Structures, Objects, and Districts | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Number of Known Archeological Sites | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 |
| Number of Potentially Historic Buildings, Structures, Objects, and Districts - currently being evaluated | 0 | 31 | 82 | 40 | 29 | 81 | 38 | 41 | 93 | 50 |
| Number of Potentially Significant Archeological Sites - currently being evaluated | 0 | 8 | 7 | 7 | 15 | 14 | 14 | 12 | 11 | 11 |
| Number of Cemeteries | 0 | 7 | 9 | 7 | 4 | 6 | 4 | 2 | 4 | 2 |
| Section 4(f) Properties | | | | | | | | | | |
| Number of Publicly-Owned Parks and Recreation Areas | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Publicly-Owned Wildlife and Waterfowl Refuges | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Number of Historic Properties - same as number of Known Historic Buildings, Structures, Objects and Districts (above) | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Section 6(f) Properties | | | | | | | | | | |
| Properties purchased by Land & Water Conservation Fund (LWCF) (number) | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| Area (acres) | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 0 | 0 | 0 |
| Rare, Threatened and Endangered Species | | | | | | | | | | |
| Potential Rare, Threatened and Endangered Species Areas (acres) | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| Other Considerations | | | | | | | | | | |
| Agricultural Districts (Ten-Year) (number of properties) | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| (acres within properties) | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 30 | 30 | 30 |
| Agricultural Preservation Easements (Permanent) (number of properties) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (acres within properties) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forestland: 2002 Land Use (acres) | 0 | 97 | 131 | 153 | 70 | 104 | 125 | 108 | 142 | 161 |
| State Forest Lands | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Note 1: Includes streams and ditches. Only linear feet have been calculated until determination is made on ditch or stream.