ALIGNMENT EVALUATION MATRIX
THORNCREEK ROAD TO MOSCOW
Project No.: DHP-NH-4110 (156)
Key No.: 09294

MATRIX March 2, 2007	ALIGNMENTS CARRIED FORWARD			EXISTING
EVALUATION CRITERIA	**W-4**	**C-3**	**E-2**	**NO-ACTION**
Length	6.69 Miles	5.94 Miles	5.86 Miles	5.9 Miles
Meets Purpose and Need	Y	Y	Y	N
Public Involvement	Y	Y	Y	Y
Meets Design Standards	Y	Y	Y	N
Safety - Estimated Accidents per Year (A/Y) based on estimated total turning movements.	10.96 A/Y	11.25 A/Y	9.06 A/Y	21.58 A/Y
Right-of-Way - New / Existing / Total Acres (+/-)	210 / 49 / 259	154 / 55 / 209	207 / 22 / 229	
Cost - Estimated Total Project Cost - Millions (+/-)	60	58	55	
Water Quality - Acres of new Impervious Surface.	56	47	53	
Air Quality	Attainment Area	Attainment Area	Attainment Area	
Archeological Sites - Number of Survey Results	0	0	0	
Historic Sites	Adverse Affect Deestin/Davis Property	No Effect	No Effect	
WETLANDS & WATERS OF THE US				
Wetlands Acres (Including Non-Jurisdictional)	4.8	1.5	5.1	
Wetlands Function & Value (Water Quality - Hydrologic Function - Habitat Function)	36	36	43	
Tributaries - Number of Crossings (Linear Feet)	11 - (11,687 LF)	10 - (9,060 LF)	5 - (4,279 LF)	
Regulatory Floodway & Floodplains - Acres (+/-)	3.6	1.8	0	
T&E - Threatened and Endangered Species Effect Determinations (Not Likely to Adversely Affect)	NLAA	NLAA	NLAA	
Haz. Mat. - Number of Potential Haz. Mat. Locations & Number of Storage Tanks sites.	5 Tank Sites	11 Tank Sites 1 Haz. Mat. Clean-up	5 Tank Sites	
SOCIO-ECONOMIC				
1 Mile South of Moscow	Significant increase in property values / Moderate potential to induced development / Challenge for contiguous growth and future connectivity	Increase in property values / Moderate to low potential to induced development	Increase in property values / Moderate potential to induced development	
Rest of Corridor	No change to minor increase in property values / Moderate to no potential to induced development	No change to minor increase in property values / Moderate to no potential to induced development	No change to minor increase in property values / Moderate to no potential to induced development	
Environmental Justice	No Effect	No Effect	Not a Disproportionately High Impact	
Displacements/Relocations - Number of direct impact to House, Trailer House and Businesses.	3 House 1 Trailer House 0 Businesses	7 House 2 Trailer House 10 Businesses	1 House 6 Trailer Houses 0 Businesses	
Noise (* Effected Receptors removed during construction)	0	6*	2*	
Visual Analysis - (Mod high and high considered for matrix) Moderate High – These conditions occur where viewers are sensitive to change to the landscape, are moderately visible (seen by 1-10 viewers), and may dominate the view shed. High – These conditions occur where viewers are sensitive to changes to the landscape, changes may be highly visible (10+ viewers), and may dominate the view shed.	LOW = 11% MOD = 58% MOD HIGH = 23% HIGH = 8% MH + H = 31%	LOW = 9% MOD = 68% MOD HIGH = 15% HIGH = 8% MH + H = 23%	LOW = 3% MOD = 47% MOD HIGH = 25% HIGH = 25% MH + H = 50%	
Prime Farmland - Acres of Prime Farmland	46.7	25	50.8	
CDC Species - (Conservation Data Center) Long Eared Myotis & Pygmy Nuthatch	No Effect	No Effect	May Effect; / 3.9 Acres of Habitat Impact	
Ungulate - (Deer, Elk & Moose) Population Effect and Identified Habitat Areas	No Population Effect / Low quality habitat area	No Population Effect / Low quality habitat area	No Population Effect / Alignment Crosses 4.4 acres of suitable habitat area	
Noxious & Invasive Weed Assessment - Remnant Palouse Prairie areas within 1 km (3280 ft) of center line.	12	14	24 including Paradise Ridge CS	
General Wildlife Assessment - Number of species potentially effected	15	15	16	
CLIMATE				
Precipitation - (January - March) % of Plant Sciences Farm (PSF) 30 Year Average	74%	80%	80%	
Fog - (January - May) Total hours w/ visibility less than 1,000 feet	49 Hours	69 Hours	69 Hours	
Road Ice Conditions - (January - May) Total hours w/ air temperature at or below 32°F & 100% Humidity	158 Hours	128 Hours	128 Hours	