

SH 205 ALTERNATIVES ANALYSIS PROCESS

ALTERNATIVE FEATURES AND POTENTIAL IMPACTS		SEGMENT 1 - ALTERNATIVE ALIGNMENTS				
		From US 90 to Griffith Road				
		All build alignments are subject to future refinements				
See the notes for an explanation of the terms and basis for impacts used in this table. →	Note #	No-Build	1A	1B	1C	1D
ENGINEERING / DESIGN FEATURES						
Alignment Length (miles)	1	-	3.1	3.1	3.1	3.1
Estimated Proposed ROW Required (acres)	2	-	15.3	13.4	14.6	11.9
COMMUNITY AND SOCIO-ECONOMIC IMPACTS						
# of Property Owners Affected by Proposed ROW	3	-	55	33	25	41
Proposed ROW Impact to Public School Properties (acres)	4	-	0	0	0	0
Prop. ROW Impact to Other Publicly-Owned Properties (ac.)	5	-	0	0	0	0
# of Displaced Residences	6	-	0	0	0	0
# of Displaced Publicly-Owned Facilities	7	-	0	0	0	0
# of Displaced Barns/Sheds/Detached Garages	8	-	1	1	0	1
# of Displaced Churches	9	-	0	0	0	0
# of Displaced Billboard Signs	10	-	3	1	2	1
# of Displaced Commercial / Industrial / Other Facilities	11	-	4	0	6	0
IMPACTS TO FEDERAL PROPERTY OR MAJOR INFRASTRUCTURE						
Proposed ROW Impact to Federal Land or Projects (acres)	12	-	0	0	0	0
Proposed ROW Impact to Railroads (acres)	13	-	0	0	0	0
Proposed ROW Impact to Airports (acres)	14	-	0	0	0	0
Prop. ROW Impact to Major Electric Utility Infrastructure (ac.)	15	-	0	0	0	0
IMPACTS TO SECTION 4(F) RESOURCES						
Prop. ROW Impact to Parks, Rec. Areas, or Refuges (acres)	16	-	0	0	0	0
# of Known Historic Properties within the Proposed ROW	17	-	0	0	0	0
# of Historic-age Properties within the Proposed ROW	18	-	0	0	0	0
# of Archeological Sites within Proposed ROW	19	-	0	0	0	0
Proposed ROW Impact to Cemeteries (acres)	20	-	0	0	0	0
# of Landmarks or Historical Markers within Proposed ROW	21	-	0	0	0	0
# of Known Historic Properties within the APE	22	-	0	0	0	0
# of Historic-age Properties within the APE	23	-	2	1	2	0
IMPACTS TO NATURAL RESOURCES						
Proposed ROW Impact within 100-Year Floodplain (acres)	24	-	4.2	3.8	4.3	3.6
Proposed ROW Impact to Ponds and Lakes (acres)	25	-	0	0	0	0
Proposed ROW Impact to NWI Wetlands (acres)	26	-	0	0	0	0
Proposed ROW Impact to NWI Rivers and Streams (acres)	27	-	0	0	0	0
Proposed ROW Impact to Riparian Forest Areas (acres)	28	-	2.3	2.8	1.9	1.6
Proposed ROW Impact to Prime Farmland (acres)	29	-	0.2	0	0.5	0.3
TRANSPORTATION FEATURES AND COMMUNITY SUPPORT						
Effect on Regional Mobility	30	-	++	++	++	++
Effect on Local Access	31	-	-	-	-	-
Effect on Operations/Safety	32	-	++	++	++	++
Accommodates Future Traffic	33	-	++	++	++	++
Construction Difficulty or Disruption	34	-	O	++	++	+
Local Support (City/County Concurrence)	35	-	TBD	TBD	TBD	TBD
Public Acceptance	36	-	TBD	TBD	TBD	TBD
PROJECT COSTS (IN \$ MILLIONS)						
Estimated Construction Costs (\$M)	37	-	\$ 27.4	\$ 27.4	\$ 27.4	\$ 27.4
Estimated Right-of-Way Costs (\$M)	38	-	\$ 9.8	\$ 3.5	\$ 10.5	\$ 3.5
Estimated Utility Costs (\$M)	39	-	\$ 4.5	\$ 4.1	\$ 3.2	\$ 4.3
Engineering, Surveying, Geotech & Inspection at 18% (\$M)	40	-	\$ 4.9	\$ 4.9	\$ 4.3	\$ 4.9
Estimated Total Costs (\$M)	41	-	\$ 46.6	\$ 39.9	\$ 45.8	\$ 40.1
Pending Alternatives Analysis Results		Viable Alternative	Viable Alternative	Viable Alternative	Viable Alternative	Technically Preferred Alternative

DRAFT
Preliminary, Subject to change

ALTERNATIVE FEATURES AND POTENTIAL IMPACTS		SEGMENT 2 - ALTERNATIVE ALIGNMENTS				
		From Griffith Road to Kaufman/Rockwall County Line				
		All build alignments are subject to future refinements				
See the notes for an explanation of the terms and basis for impacts used in this table. →	Note #	No-Build	2A	2B	2C	2D
ENGINEERING / DESIGN FEATURES						
Alignment Length (miles)	1	-	3.1	3.1	3.1	3.1
Estimated Proposed ROW Required (acres)	2	-	21.7	20.6	18.1	20.0
COMMUNITY AND SOCIO-ECONOMIC IMPACTS						
# of Property Owners Affected by Proposed ROW	3	-	100	49	52	54
Proposed ROW Impact to Public School Properties (acres)	4	-	0	0	0	0
Prop. ROW Impact to Other Publicly-Owned Properties (ac.)	5	-	0.2	0.2	0.2	0.2
# of Displaced Residences	6	-	0	0	0	0
# of Displaced Publicly-Owned Facilities	7	-	0	0	0	0
# of Displaced Barns/Sheds/Detached Garages	8	-	1	0	2	0
# of Displaced Churches	9	-	0	0	0	0
# of Displaced Billboard Signs	10	-	3	0	3	0
# of Displaced Commercial / Industrial / Other Facilities	11	-	1	2	4	1
IMPACTS TO FEDERAL PROPERTY OR MAJOR INFRASTRUCTURE						
Proposed ROW Impact to Federal Land or Projects (acres)	12	-	0	0	0	0
Proposed ROW Impact to Railroads (acres)	13	-	0	0	0	0
Proposed ROW Impact to Airports (acres)	14	-	2.0	3.8	0	0
Prop. ROW Impact to Major Electric Utility Infrastructure (ac.)	15	-	0	0	0	0
IMPACTS TO SECTION 4(F) RESOURCES						
Prop. ROW Impact to Parks, Rec. Areas, or Refuges (acres)	16	-	0	0	0	0
# of Known Historic Properties within the Proposed ROW	17	-	0	0	0	0
# of Historic-age Properties within the Proposed ROW	18	-	0	0	0	0
# of Archeological Sites within Proposed ROW	19	-	0	0	0	0
Proposed ROW Impact to Cemeteries (acres)	20	-	0	0	0	0
# of Landmarks or Historical Markers within Proposed ROW	21	-	0	0	0	0
# of Known Historic Properties within the APE	22	-	0	0	0	0
# of Historic-age Properties within the APE	23	-	6	0	6	0
IMPACTS TO NATURAL RESOURCES						
Proposed ROW Impact within 100-Year Floodplain (acres)	24	-	3.5	3.4	3	3.1
Proposed ROW Impact to Ponds and Lakes (acres)	25	-	0	0.1	0	0.1
Proposed ROW Impact to NWI Wetlands (acres)	26	-	0.2	0	0.5	0.1
Proposed ROW Impact to NWI Rivers and Streams (acres)	27	-	0	0	0	0
Proposed ROW Impact to Riparian Forest Areas (acres)	28	-	1	1.1	0.8	1.3
Proposed ROW Impact to Prime Farmland (acres)	29	-	13.9	13.6	12.3	13.7
TRANSPORTATION FEATURES AND COMMUNITY SUPPORT						
Effect on Regional Mobility	30	-	++	++	++	++
Effect on Local Access	31	-	-	-	-	-
Effect on Operations/Safety	32	-	++	++	++	++
Accommodates Future Traffic	33	-	++	++	++	++
Construction Difficulty or Disruption	34	-	O	++	++	+
Local Support (City/County Concurrence)	35	-	TBD	TBD	TBD	TBD
Public Acceptance	36	-	TBD	TBD	TBD	TBD
PROJECT COSTS (IN \$ MILLIONS)						
Estimated Construction Costs (\$M)	37	-	\$ 34.8	\$ 34.8	\$ 34.6	\$ 34.8
Estimated Right-of-Way Costs (\$M)	38	-	\$ 8.3	\$ 1.1	\$ 8.7	\$ 0.9
Estimated Utility Costs (\$M)	39	-	\$ 9.6	\$ 5.9	\$ 5.1	\$ 5.6
Engineering, Surveying, Geotech & Inspection at 18% (\$M)	40	-	\$ 6.3	\$ 6.3	\$ 6.6	\$ 6.3
Estimated Total Costs (\$M)	41	-	\$ 59.0	\$ 48.1	\$ 54.9	\$ 47.6
Pending Alternatives Analysis Results		Viable Alternative	Viable Alternative	Viable Alternative	Viable Alternative	Technically Preferred Alternative

ALTERNATIVE FEATURES AND POTENTIAL IMPACTS		SEGMENT 3 - ALTERNATIVE ALIGNMENTS				
		From Kaufman/Rockwall County Line to Tucker Road				
		All build alignments are subject to future refinements				
See the notes for an explanation of the terms and basis for impacts used in this table. →	Note #	No-Build	3A	3B	3C	3D
ENGINEERING / DESIGN FEATURES						
Alignment Length (miles)	1	-	4.0	4.0	4.0	4.0
Estimated Proposed ROW Required (acres)	2	-	21.7	23.7	22.7	20.1
COMMUNITY AND SOCIO-ECONOMIC IMPACTS						
# of Property Owners Affected by Proposed ROW	3	-	97	41	56	46
Proposed ROW Impact to Public School Properties (acres)	4	-	0	0	0	0
Prop. ROW Impact to Other Publicly-Owned Properties (ac.)	5	-	0.6	1.7	0	1.1
# of Displaced Residences	6	-	5	3	6	3
# of Displaced Publicly-Owned Facilities	7	-	1	1	0	1
# of Displaced Barns/Sheds/Detached Garages	8	-	5	3	5	2
# of Displaced Churches	9	-	0	0	0	0
# of Displaced Billboard Signs	10	-	1	0	2	0
# of Displaced Commercial / Industrial / Other Facilities	11	-	4	2	5	2
IMPACTS TO FEDERAL PROPERTY OR MAJOR INFRASTRUCTURE						
Proposed ROW Impact to Federal Land or Projects (acres)	12	-	0	0	0	0
Proposed ROW Impact to Railroads (acres)	13	-	0	0	0	0
Proposed ROW Impact to Airports (acres)	14	-	0	0	0	0
Prop. ROW Impact to Major Electric Utility Infrastructure (ac.)	15	-	0	0	0	0
IMPACTS TO SECTION 4(F) RESOURCES						
Prop. ROW Impact to Parks, Rec. Areas, or Refuges (acres)	16	-	0	0	0	0
# of Known Historic Properties within the Proposed ROW	17	-	0	0	0	0
# of Historic-age Properties within the Proposed ROW	18	-	5	2	6	2
# of Archeological Sites within Proposed ROW	19	-	0	0	0	0
Proposed ROW Impact to Cemeteries (acres)	20	-	0.1	0.5	0	0
# of Landmarks or Historical Markers within Proposed ROW	21	-	1	1	0	0
# of Known Historic Properties within the APE	22	-	0	0	0	0
# of Historic-age Properties within the APE	23	-	7	0	5	2
IMPACTS TO NATURAL RESOURCES						
Proposed ROW Impact within 100-Year Floodplain (acres)	24	-	4.7	4.8	6.1	4
Proposed ROW Impact to Ponds and Lakes (acres)	25	-	0	0	0.1	0
Proposed ROW Impact to NWI Wetlands (acres)	26	-	0	0	0	0
Proposed ROW Impact to NWI Rivers and Streams (acres)	27	-	0	0	0	0
Proposed ROW Impact to Riparian Forest Areas (acres)	28	-	2.3	2	2.1	2.4
Proposed ROW Impact to Prime Farmland (acres)	29	-	20.6	22.5	21.4	18.5
TRANSPORTATION FEATURES AND COMMUNITY SUPPORT						
Effect on Regional Mobility	30	-	++	++	++	++
Effect on Local Access	31	-	-	-	-	-
Effect on Operations/Safety	32	-	++	++	++	++
Accommodates Future Traffic	33	-	++	++	++	++
Construction Difficulty or Disruption	34	-	O	++	++	+
Local Support (City/County Concurrence)	35	-	TBD	TBD	TBD	TBD
Public Acceptance	36	-	TBD	TBD	TBD	TBD
PROJECT COSTS (IN \$ MILLIONS)						
Estimated Construction Costs (\$M)	37	-	\$ 43.3	\$ 43.3	\$ 43.5	\$ 43.3
Estimated Right-of-Way Costs (\$M)	38	-	\$ 4.4	\$ 1.8	\$ 4.2	\$ 1.3
Estimated Utility Costs (\$M)	39	-	\$ 10.7	\$ 6.1	\$ 8.9	\$ 7.6
Engineering, Surveying, Geotech & Inspection at 18% (\$M)	40	-	\$ 7.8	\$ 7.8	\$ 7.8	\$ 7.8
Estimated Total Costs (\$M)	41	-	\$ 66.2	\$ 59.0	\$ 64.4	\$ 60.0
Pending Alternatives Analysis Results		Viable Alternative	Viable Alternative	Viable Alternative	Viable Alternative	Technically Preferred Alternative

ALTERNATIVE FEATURES AND POTENTIAL IMPACTS		SEGMENT 4 - ALTERNATIVE ALIGNMENTS				
		From Tucker Road to Sids Road				
		All build alignments are subject to future refinements				
See the notes for an explanation of the terms and basis for impacts used in this table. ➔	Note #	No-Build	4A	4B	4C	4D
ENGINEERING / DESIGN FEATURES						
Alignment Length (miles)	1	-	4.1	4.1	4.1	4.1
Estimated Proposed ROW Required (acres)	2	-	17.5	18.3	17.6	18.8
COMMUNITY AND SOCIO-ECONOMIC IMPACTS						
# of Property Owners Affected by Proposed ROW	3	-	78	31	58	38
Proposed ROW Impact to Public School Properties (acres)	4	-	0.4	0	0.7	0
Prop. ROW Impact to Other Publicly-Owned Properties (ac.)	5	-	0.8	0	0.5	0
# of Displaced Residences	6	-	1	2	4	0
# of Displaced Publicly-Owned Facilities	7	-	0	0	0	0
# of Displaced Barns/Sheds/Detached Garages	8	-	0	4	5	0
# of Displaced Churches	9	-	0	0	0	0
# of Displaced Billboard Signs	10	-	0	1	0	0
# of Displaced Commercial / Industrial / Other Facilities	11	-	0	0	0	0
IMPACTS TO FEDERAL PROPERTY OR MAJOR INFRASTRUCTURE						
Proposed ROW Impact to Federal Land or Projects (acres)	12	-	0	0	0	0
Proposed ROW Impact to Railroads (acres)	13	-	0	0	0	0
Proposed ROW Impact to Airports (acres)	14	-	0	0	0	0
Prop. ROW Impact to Major Electric Utility Infrastructure (ac.)	15	-	0	0	0	0
IMPACTS TO SECTION 4(F) RESOURCES						
Prop. ROW Impact to Parks, Rec. Areas, or Refuges (acres)	16	-	0.5	0	0.9	0
# of Known Historic Properties within the Proposed ROW	17	-	0	0	0	0
# of Historic-age Properties within the Proposed ROW	18	-	0	1	0	0
# of Archeological Sites within Proposed ROW	19	-	0	0	0	0
Proposed ROW Impact to Cemeteries (acres)	20	-	0	0	0	0
# of Landmarks or Historical Markers within Proposed ROW	21	-	0	0	0	0
# of Known Historic Properties within the APE	22	-	0	0	0	0
# of Historic-age Properties within the APE	23	-	4	0	3	2
IMPACTS TO NATURAL RESOURCES						
Proposed ROW Impact within 100-Year Floodplain (acres)	24	-	0.8	0.7	1.3	0.8
Proposed ROW Impact to Ponds and Lakes (acres)	25	-	0	0	0	0
Proposed ROW Impact to NWI Wetlands (acres)	26	-	0	0	0	0
Proposed ROW Impact to NWI Rivers and Streams (acres)	27	-	0	0	0	0
Proposed ROW Impact to Riparian Forest Areas (acres)	28	-	0.3	0.5	0.3	0.4
Proposed ROW Impact to Prime Farmland (acres)	29	-	16.2	17.1	17.5	17.2
TRANSPORTATION FEATURES AND COMMUNITY SUPPORT						
Effect on Regional Mobility	30	-	++	++	++	++
Effect on Local Access	31	-	-	-	-	-
Effect on Operations/Safety	32	-	++	++	++	++
Accommodates Future Traffic	33	-	++	++	++	++
Construction Difficulty or Disruption	34	-	0	++	++	+
Local Support (City/County Concurrence)	35	-	TBD	TBD	TBD	TBD
Public Acceptance	36	-	TBD	TBD	TBD	TBD
PROJECT COSTS (IN \$ MILLIONS)						
Estimated Construction Costs (\$M)	37	-	\$ 38.7	\$ 38.7	\$ 38.7	\$ 38.7
Estimated Right-of-Way Costs (\$M)	38	-	\$ 1.9	\$ 4.5	\$ 3.5	\$ 1.1
Estimated Utility Costs (\$M)	39	-	\$ 19.5	\$ 15.4	\$ 15.4	\$ 15.0
Engineering, Surveying, Geotech & Inspection at 18% (\$M)	40	-	\$ 7.0	\$ 7.0	\$ 7.1	\$ 7.0
Estimated Total Costs (\$M)	41	-	\$ 67.1	\$ 65.6	\$ 64.7	\$ 61.8
Pending Alternatives Analysis Results						
		Viable Alternative	Viable Alternative	Viable Alternative	Viable Alternative	Technically Preferred Alternative