Summary of Potential Impacts from Alternatives

Potential Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	No Build
Meets Purpose & Need	**Yes**	**Yes**	**Yes**	**Yes**	**No**
Land Use/Farmland	**Convert 299.82 acres of farmland** • 222 acres of Prime and Unique farmland • 12 acres of Statewide and Local Importance • 97.11 acres enrolled in the Williamson Act Program • One agricultural conservation easement	**Convert 446.21 acres of farmland** • 371 acres of Prime and Unique farmland • 22 acres of Statewide and Local Importance • 153.62 acres enrolled in the Williamson Act Program • One agricultural conservation easement	**Convert 305.64 acres of farmland** • 237 acres of Prime and Unique farmland • 3 acres of Statewide and Local Importance • 136.12 acres enrolled in the Williamson Act Program • One agricultural conservation easement	**Convert 282 acres of farmland** • 234 acres of Prime and Unique farmland • No Statewide and Local Importance • 144.74 acres enrolled in the Williamson Act Program • One agricultural conservation easement	**No Impact**
Visual/Aesthetics	**Moderate Visual Impact** • Topographic feature change, vegetation loss • Reduction of views of scenic resources from the highway and homes	**High Visual Impact** • Would have a high level of impact on existing visual resources	**Moderately Low Visual Impact** • Topographic feature change, vegetation loss • Reduction of views of scenic resources from the highway and homes	**Moderately Low Visual Impact** • Topographic feature change, vegetation loss • Reduction of views of scenic resources from the highway and homes	**No Impact**

Significant & Unavoidable Impact | Less Than Significant with Mitigation Incorporated | Less Than Significant Impact | No Impact

Summary of Potential Impacts from Alternatives

Potential Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	No Build
Noise and Vibration	• Permanently impact 5 receivers • Unavoidable noise impact	• Permanently impact 5 receivers • Unavoidable noise impact	• Permanently impact 36 receivers • No avoidance, minimization, and/or mitigation measures required	• Permanently impact 36 receivers • No avoidance, minimization, and/or mitigation measures required	**No Impact**
Wetlands	• Permanently impact 0.053 acre	• Permanently impact 0.053 acre	• Permanently impact 0.166 acre	• Permanently impact 0.166 acre	**No Impact**
Paleontology	• High sensitivity for paleontological resources. Anticipate 250,000 cubic yards of excavation	• High sensitivity for paleontological resources. Anticipate 300,000 cubic yards of excavation	• High sensitivity for paleontological resources. Anticipate 140,000 cubic yards of excavation	• High sensitivity for paleontological resources. Anticipate 140,000 cubic yards of excavation	**No Impact**
Business Displacements	**No Impact**	• One business	• Four business	• Four business	**No Impact**

Significant & Unavoidable Impact | **Less Than Significant with Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact**

Summary of Potential Impacts from Alternatives

Potential Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	No Build
Housing Displacements	• Four single-family homes	• Seven single-family homes	• 34 single-family homes	• 25 single-family homes • One duplex • 14 mobile homes.	**No Impact**
Hydrology and Floodplain	• Addition of 40 acres of an impervious surface area, affecting existing watershed flow and volume of stormwater runoff	• Addition of 40 acres of an impervious surface area, affecting existing watershed flow and volume of stormwater runoff	• Addition of 40 acres of an impervious surface area, affecting existing watershed flow and volume of stormwater runoff	• Addition of 40 acres of an impervious surface area, affecting existing watershed flow and volume of stormwater runoff	**No Impact**
Water Quality and Stormwater Runoff	**Potential for discharges from construction, increased impervious areas, operation and maintenance activities** • 15 drainage basins	**Potential for discharges from construction, increased impervious areas, operation and maintenance activities** • 24 drainage basins	**Potential for discharges from construction, increased impervious areas, operation and maintenance activities** • 13 drainage basins	**Potential for discharges from construction, increased impervious areas, operation and maintenance activities** • 11 drainage basins	**No Impact**

Significant & Unavoidable Impact — **Less Than Significant with Mitigation Incorporated** — **Less Than Significant Impact** — **No Impact**

Summary of Potential Impacts from Alternatives

Potential Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	No Build
Hazardous Waste and Materials	• 11 low-risk residential properties	• 11 low-risk residential properties	• 34 low-risk single-family properties • 1 high-risk property from the Cortese list	• 25 low-risk single-family properties • 1 high-risk property from the Cortese list	**No Impact**
Air Quality	• Short term construction impacts	• Short term construction impacts	• Short term construction impacts	• Short term construction impacts	**No Impact**
Waters of the U.S.	• Permanently impact 0.304 acre • Temporarily impact 0.124 acre	• Would have a low potential for buried archaeological deposits	• Would have a low potential for buried archaeological deposits	• Would have a low potential for buried archaeological deposits	**No Impact**
Cultural Resources (Archaeological)	• Would have a low potential for buried archaeological deposits	• Would have a low potential for buried archaeological deposits	• Would have a low potential for buried archaeological deposits	• Would have a low potential for buried archaeological deposits	**No Impact**

Significant & Unavoidable Impact | **Less Than Significant with Mitigation Incorporated** | **Less Than Significant Impact** | **No Impact**

Summary of Potential Impacts from Alternatives

Potential Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	No Build
Animal Species	• Modesto song sparrow (Melospiza melodia) • Burrowing owls (Athene cunicularia)	• Modesto song sparrow (Melospiza melodia) • Burrowing owls (Athene cunicularia)	• Modesto song sparrow (Melospiza melodia) • Burrowing owls (Athene cunicularia)	• Modesto song sparrow (Melospiza melodia) • Burrowing owls (Athene cunicularia)	No Impact
Air Quality	• Vernal pool fairy shrimp (Branchinecta lynchi) • Tricolored blackbirds (Agelaius tricolor) • Swainson's hawk (Buteo swainsoni) • California tiger salamander (Ambystoma californiense)	• Vernal pool fairy shrimp (Branchinecta lynchi) • Tricolored blackbirds (Agelaius tricolor) • Swainson's hawk (Buteo swainsoni) • California tiger salamander (Ambystoma californiense)	• Vernal pool fairy shrimp (Branchinecta lynchi) • Tricolored blackbirds (Agelaius tricolor) • Swainson's hawk (Buteo swainsoni) • California tiger salamander (Ambystoma californiense)	• Vernal pool fairy shrimp (Branchinecta lynchi) • Tricolored blackbirds (Agelaius tricolor) • Swainson's hawk (Buteo swainsoni) • California tiger salamander (Ambystoma californiense)	No Impact
Waters of the U.S.	• Would not have an adverse impact on Butler Ditch	• Would not have an adverse impact on Butler Ditch	No Impact	No Impact	No Impact

Significant & Unavoidable Impact — Less Than Significant with Mitigation Incorporated — Less Than Significant Impact — No Impact

Summary of Potential Impacts from Alternatives

Potential Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	No Build
2026 Measures of Effectiveness	**Morning:** 30.6 (-30.1 percent) Total Vehicle Hours of Delay 46 (7 percent) Average Speed 7,954 (-20 percent) Vehicle Miles of Travel **Morning:** 30.6 (-30.1 percent) Total Vehicle Hours of Delay 46 (7 percent) Average Speed 7,954 (-20 percent) Vehicle Miles of Travel	**Morning:** 16.9 (-61.4 percent) Total Vehicle Hours of Delay 57 (32.6 percent) Average Speed 10,912 (9.7 percent) Vehicle Miles of Travel **Evening:** 24.5 (-62.6 percent) Total Vehicle Hours of Delay 54 (31.7 percent) Average Speed 12,299 (-4.2 percent) Vehicle Miles of Travel	**Morning:** 65.4 (49.32 percent) Total Vehicle Hours of Delay 46 (7 percent) Average Speed 13,091 (31.6 percent) Vehicle Miles of Travel **Evening:** 64.9 (-0.9 percent) Total Vehicle Hours of Delay 46 (12.2 percent) Average Speed 14,026 (9.3 percent) Vehicle Miles of Travel	**Morning:** 65.4 (49.32 percent) Total Vehicle Hours of Delay 46 (7 percent) Average Speed 13,091 (31.6 percent) Vehicle Miles of Travel **Evening:** 64.9 (-0.9 percent) Total Vehicle Hours of Delay 46 (12.2 percent) Average Speed 14,026 (9.3 percent) Vehicle Miles of Travel	**Morning:** 43.8 Total Vehicle Hours of Delay 43 Average Speed 9,949 Vehicle Miles of Travel **Evening:** 65.5 Total Vehicle Hours of Delay 41 Average Speed 12,838 Vehicle Miles of Travel

Summary of Potential Impacts from Alternatives

Potential Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	No Build
2046 Measures of Effectiveness	**Morning:** 49.8 (-78 percent) Total Vehicle Hours of Delay 44 (69.2 percent) Average Speed 10,158 (-11.4 percent) Vehicle Miles of Travel **Evening:** 57.4 (-75.9 percent) Total Vehicle Hours of Delay 44 (57.1 percent) Average Speed 12,534 (-17 percent) Vehicle Miles of Travel	**Morning:** 36.8 (-83.7 percent) Total Vehicle Hours of Delay 52 (100 percent) Average Speed 13,779 (20.2 percent) Vehicle Miles of Travel **Evening:** 36.5 (-84.7 percent) Total Vehicle Hours of Delay 52 (85.7 percent) Average Speed 13,603 (-9.9 percent) Vehicle Miles of Travel	**Morning:** 105.9 (-53.2 percent) Total Vehicle Hours of Delay 42 (61.5 percent) Average Speed 15,123 (31.9 percent) Vehicle Miles of Travel **Evening:** 89.8 (-62.35 percent) Total Vehicle Hours of Delay 44 (57.1 percent) Average Speed 16,419 (8.8 percent) Vehicle Miles of Travel	**Morning:** 105.9 (-53.2 percent) Total Vehicle Hours of Delay 42 (61.5 percent) Average Speed 15,123 (31.9 percent) Vehicle Miles of Travel **Evening:** 89.8 (-62.35 percent) Total Vehicle Hours of Delay 44 (57.1 percent) Average Speed 16,419 (8.8 percent) Vehicle Miles of Travel	**Morning:** 226.2 Total Vehicle Hours of Delay 26 Average Speed 11,465 Vehicle Miles of Travel **Evening:** 238.4 Total Vehicle Hours of Delay 28 Average Speed 15,093 Vehicle Miles of Travel
Cost Estimate	**$116.1 million**	**$182.4 million**	**$181.7 million**	**$147.7 million**	**No Cost**

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