

**Appendix 3.8-A**  
**Water Bodies Crossed by Fresno to Bakersfield**  
**Section Alternatives**



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 Water Bodies Crossed by Fresno to Bakersfield Section Alternatives

Water Body <sup>a</sup>	Type <sup>b</sup>	Alternative(s)	Approximate Crossing Width <sup>c</sup> (feet)	Crossing Method <sup>d</sup>
Fresno Colony Canal	C	BNSF Alternative	50	Aerial structure
North Central Canal	C	BNSF Alternative	50	Aerial structure
Central Canal	C	BNSF Alternative	100	Culvert or bridge
American Colony Canal	C	Fresno Works–Fresno HMF	<50	Culvert or avoidance
Washington Colony Canal	C	BNSF Alternative, Fresno Works–Fresno HMF	<50	Box culvert
North Branch of Washington Colony Canal	C	Fresno Works–Fresno HMF	<50	Culvert or avoidance
South Branch of Washington Colony Canal	C	Fresno Works–Fresno HMF	<50	Culvert or avoidance
North Branch Oleander Canal	C	BNSF Alternative, Fresno Works–Fresno HMF	<50	Box culvert
Wristen Canal	C	BNSF Alternative	<50	Box culvert
Harlan Stevens Ditch	C	BNSF Alternative	<50	Box culvert
Davis Ditch	C	BNSF Alternative	<50	Box culvert
Elkhorn Ditch	C	BNSF Alternative	<50	Box culvert
Crosscut Waste	C	BNSF Alternative	<50	Box culvert
Cole Slough	I	BNSF Alternative	300	Bridge
Dutch John Cut	I	BNSF Alternative	700	Bridge
Liberty Ditch	C	Hanford West Bypass 1, Hanford West Bypass 2	<50	Box culvert
Murphy Slough	C	Hanford West Bypass 1, Hanford West Bypass 2	75	Bridge
"A" Canal	C	Hanford West Bypass 1, Hanford West Bypass 2	50	Aerial structure
Grant Canal	C	Hanford West Bypass 1, Hanford West Bypass 2	50	Aerial structure
Kings River	I	BNSF Alternative, Hanford West Bypass 1, Hanford West Bypass 2	300 to 1,625	Bridge or aerial structure
Riverside Ditch	C	BNSF Alternative, Hanford West Bypass 1, Hanford West Bypass 2	<50 to 75	Box culvert
Peoples Ditch	C	BNSF Alternative	<50	Box culvert
East Branch of Peoples Ditch	C	BNSF Alternative	125	Box culvert (canal realignment)
Settlers Ditch	C	BNSF Alternative, Kings County–Hanford HMF site	<50	Aerial structure, culvert, or avoidance
Hardwick Ditch	C	Hanford West Bypass 1, Hanford West Bypass 2	<50	Box culvert
Bakker Ditch	C	Hanford West Bypass 1, Hanford West Bypass 2	<50	Box culvert

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Last Chance Ditch (West Main)	C	Hanford West Bypass 1, Hanford West Bypass 2	75	Box culvert (canal realignment)
Blowers Ditch	C	Hanford West Bypass 1, Hanford West Bypass 2	<50	Box culvert
Last Chance Ditch	C	Hanford West Bypass 1, Hanford West Bypass 2 (road improvements)	60	Box culvert or bridge
Lone Oak Canal	C	Hanford West Bypass 1, Hanford West Bypass 2 (road improvements)	<50	Box culvert or bridge
Peoples Ditch	C	Hanford West Bypass 1, Hanford West Bypass 2 (road improvements and alignment crossing)	<50	Box culvert or bridge
New Deal Canal/Peoples Ditch	C	Hanford West Bypass 1, Hanford West Bypass 2	75	Box culvert (canal realignment)
Lakeside Ditch	C	BNSF Alternative, Hanford West Bypass 1, Hanford West Bypass 2	<50	Aerial structure and box culvert
Melga Canal	C	BNSF Alternative, Hanford West Bypass 1, Hanford West Bypass 2	110 or 75	Bridge, box culvert and aerial structure
Canal near Guernsey Slough	C	Hanford West Bypass 1, Hanford West Bypass 2	<50	Box culvert (canal realignment)
Arm of Guernsey Slough	I	BNSF Alternative	275	Bridge or culvert
East Branch Lakeside Ditch	C	BNSF Alternative, Hanford West Bypass 2	<50	Box culvert
Cross Creek	I	BNSF Alternative, Hanford West Bypass 1, Hanford West Bypass 2	150 to 200	Aerial structure
West Branch Lakeland Canal	C	BNSF Alternative, Corcoran Elevated, Corcoran Bypass	50	Aerial structure or culvert
North Corcoran Ditch	C	Corcoran Elevated	<50	Aerial structure
Sweet Canal	C	BNSF Alternative, Corcoran Elevated, Corcoran Bypass	100 to 450	Aerial structure or bridge (canal realignment)
AT and SF Ax Canal	C	Corcoran Bypass	<50	Culvert
Tule River	I	BNSF Alternative, Corcoran Elevated, Corcoran Bypass	300	Bridge or aerial structure
Taylor Canal	C	BNSF Alternative	<50	Box culvert
Lakeland Canal/Homeland Canal	C	BNSF Alternative	120	Bridge (canal realignment)
Deer Creek	I	BNSF Alternative, Allensworth Bypass	140	Aerial structure
County Line Creek North	I	BNSF Alternative	<50	Culvert

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County Line Creek South	I	BNSF Alternative	84	Bridge
Poso Creek	I	BNSF Alternative, Allensworth Bypass, and road crossing	140	Bridge or aerial structure
Arvin Edison Canal	C	BNSF Alternative	100	Aerial structure
Friant-Kern Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	150	Aerial structure
Cross Valley Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	180 to 600	Aerial structure
Kern River <sup>e</sup>	P	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	1500	Aerial structure
Carrier Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	120 to 150	Aerial structure
Stine Canal	C	Bakersfield South	60	Aerial structure
Kern Island Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	100	Aerial structure
East Side Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	160 to 800	Aerial structure
Notes: <sup>a</sup> Features identified from review of U.S. Geological Survey topographic maps and aerial photographs. Unnamed irrigation canals and distribution pipelines are also crossed by the alternative alignments; these features are not listed in this table. <sup>b</sup> Type: B = drainage or recharge basin, C = irrigation canal, I = intermittent, P = perennial. <sup>c</sup> Crossing widths subject to change once HST alternative alignments are finalized. <sup>d</sup> Based on 15% Conceptual Design. Where water bodies are crossed on fill (earthworks), culverts have been assumed to be the crossing method. Crossing method is subject to change as design progresses. <sup>e</sup> HST alternative alignments do not cross perpendicularly to the Kern River; therefore, approximate crossing width is greater than the perpendicular width of Kern River. HST = high-speed train				

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