Calculation of Station/Offsets on As-Built Highway

	RW Plan	Plan Data	P.I. to P.O.T.	As-Built	A-B Data	Scenario 1	Scenario 2	Scenario 3
	P.I. 474+73.6			P.I. 474+75.0				
		Δ = 34° 37'			Δ = 34° 40'			
		D = 3° 00'			D = 3° 00'			
		R = 1910.0			R = 1910.0			
		T = 595.2			T = 596.1			
		L = 1153.9			L = 1155.6			
END. MON → HELD FOR LINE	P.T. 480+32.3		595.2	P.T. 480+34.5		P.T. 480+34.5	P.T. 480+34.5	P.T. 480+34.5
		817.7				816.8	815.5	819.4
	P.O.T. 488+50		1412.9			P.O.T. 488+51.3	P.O.T. 488+50	P.O.T. 488+53.9
		350.0				350.0	350.0	350.7
	P.O.T. 492+00		1762.9			P.O.T. 492+01.3	P.O.T. 492+00	P.O.T. 492+04.6
		100.0				100.0	100.0	100.2
	P.O.T. 493+00		1862.9			P.O.T. 493+01.3	P.O.T. 493+00	P.O.T. 493+04.8
		250.0				250.0	250.0	250.5
	P.O.T. 495+50		2112.9			P.O.T. 495+51.3	P.O.T. 495+50	P.O.T. 495+55.3
		508.8				514.0	515.3	509.9
END. MON HELD FOR LINE	P.C. 500+58.8		2621.7	P.C. 500+65.3		P.C. 500+65.3	P.C. 500+65.3	P.C. 500+65.2
		Δ = 26°40'			Δ = 26° 38'			
		D = 2° 00'			D = 3° 00'			
		R = 2865.0			R = 2865.0			
		T = 679.0			T = 678.1			
		L = 1333.3			L = 1331.8			
	P.I. 507+37.8			P.I. 507+43.4				

Scenario 1 Hold original plan distance from P.I. 474+73.6 (As-Built P.I. 474+75.0) to P.O.T. stations.
Scenario 2 Hold As-Built P.I. 474+75.0 and P.T. 480+34.5 and stake P.O.T.'s as stations shown on original plan.
Scenario 3 Set new P.T. 480+34.5 and new P.C. 500+65.3 on As-Built alignment and proportion P.O.T. stations.
Proportion = plan distance 2026.5 / as-built distance 2030.8 = 1.002121885.