

**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION
FY2025-26 CONSOLIDATED RAIL INFRASTRUCTURE AND SAFETY
IMPROVEMENTS “CRISI”
GRANT APPLICATION**

**Northern Aroostook Rail Gateway Modernization and
Safety Project**

Maine Department of Transportation

**APPENDIX F:
Preliminary Engineering Materials**

PROJECT BUDGET TABLE

Lifecycle Stage	Cost	Percentage	Source of Funds and Citation
Project Administration	\$ -	0.00%	
Preliminary Engineering	\$ -	0.00%	
Environmental Clearance	\$ -	0.00%	
Final Design	\$ -	0.00%	
Construction	\$ 43,985,000	95%	
Contingency	\$ 2,315,000	5%	
Total Project Cost:	\$ 46,300,000	100%	
Federal CRISI Funding Requested	\$ 37,040,000	80%	
Non-Federal Funding (Private Sector)	\$ 9,260,000	20%	MaineDOT match funds (cash)

Task #1 - Madawaska Rail Upgrade				
Item	Unit	Quantity	Unit Cost	Total Cost
Rail Replacement (Labour)	LF	142,560	\$ 12.00	\$ 1,710,720.00
Rail (115RE) - 80' lengths	LF	142,560	\$ 35.37	\$ 5,042,349.00
Joint Bars (115lb RE)	Pair	1,782	\$ 172.14	\$ 306,753.00
Bolts with washers (115lb)	Each	10,692	\$ 6.50	\$ 69,498.00
Tie Plates (115lb)	Each	85,536	\$ 19.79	\$ 1,692,757.00
Track Spikes	Keg	5,702	\$ 50.00	\$ 285,120.00
Anchors (115lb)	Each	57,024	\$ 2.25	\$ 128,304.00
Total Estimated Cost:			\$ 9,235,501.00	

Task #1 - Madawaska Cross Tie Replacement				
Item	Unit	Quantity	Unit Cost	Total Cost
Cross Tie Replacement Installation (Labour)	Each	60,000	\$ 32.00	\$ 1,920,000.00
Cross Tie Disposal	Each	60,000	\$ 12.00	\$ 720,000.00
Cross Ties (6x8x8'6)	Each	60,000	\$ 53.90	\$ 3,234,000.00
Track Spikes	Keg	8,000	\$ 50.00	\$ 400,000.00
Total Estimated Cost:			\$ 6,274,000.00	

Task #1 - Madawaska Turnout Replacement				
Item	Unit	Quantity	Unit Cost	Total Cost
Turnout Replacement Installation (Labour)	Each	28	\$ 30,000.00	\$ 840,000.00
Turnout Package (No.11)	Each	28	\$ 73,316.00	\$ 2,052,848.00
Cross Tie (7x9x9')	Each	280	\$ 117.12	\$ 32,794.00
Cross Tie (7x9x10')	Each	476	\$ 130.14	\$ 61,947.00
Cross Tie (7x9x11')	Each	252	\$ 143.15	\$ 36,074.00
Cross Tie (7x9x12')	Each	224	\$ 156.16	\$ 34,980.00
Cross Tie (7x9x13')	Each	224	\$ 169.18	\$ 37,896.00
Cross Tie (7x9x14')	Each	168	\$ 182.19	\$ 30,608.00
Cross Tie (7x9x15')	Each	224	\$ 195.20	\$ 43,725.00
Cross Tie (7x9x16')	Each	336	\$ 208.20	\$ 69,955.00
Total Estimated Cost:			\$ 3,240,827.00	

Task #1 - Madawaska Ballast Placement and Surfacing				
Item	Unit	Quantity	Unit Cost	Total Cost
Ballast Placement and Surfacing (Labour)	Tons	40,000	\$ 10.00	\$ 400,000.00
Ballast Transportation	Trains	28	\$ 15,000.00	\$ 420,000.00
Ballast (No.4/4A)	Tons	40,000	\$ 19.16	\$ 766,400.00
Total Estimated Cost:			\$ 1,586,400.00	

Task #1 - Madawaska Bridge				
Item	Unit	Quantity	Unit Cost	Total Cost
Redeck Bridge 167.74 (Labour & Materials)	Each	1	\$ 150,000.00	\$ 150,000.00
Total Estimated Cost:			\$ 150,000.00	

Task #2 - Van Buren Rail Upgrade				
Item	Unit	Quantity	Unit Cost	Total Cost
Rail Replacement (Labour)	LF	253,440	\$ 23.00	\$ 5,829,120.00
Rail (115RE) - 1600' lengths	LF	253,440	\$ 42.00	\$ 10,644,480.00
Tie Plates (115lb)	Each	152,064	\$ 19.79	\$ 3,009,347.00
Track Spikes	Keg	10,138	\$ 50.00	\$ 506,880.00
Anchors (115lb)	Each	152,064	\$ 2.25	\$ 342,144.00
Total Estimated Cost:			\$ 20,331,971.00	

Task #2 - Van Buren Cross Tie Replacement				
Item	Unit	Quantity	Unit Cost	Total Cost
Cross Tie Replacement Installation (Labour)	Each	12,000	\$ 32.00	\$ 384,000.00
Cross Tie Disposal	Each	12,000	\$ 12.00	\$ 144,000.00
Cross Ties (6x8x8'6)	Each	12,000	\$ 53.90	\$ 646,800.00
Track Spikes	Keg	1,600	\$ 50.00	\$ 80,000.00
Total Estimated Cost:			\$ 1,254,800.00	

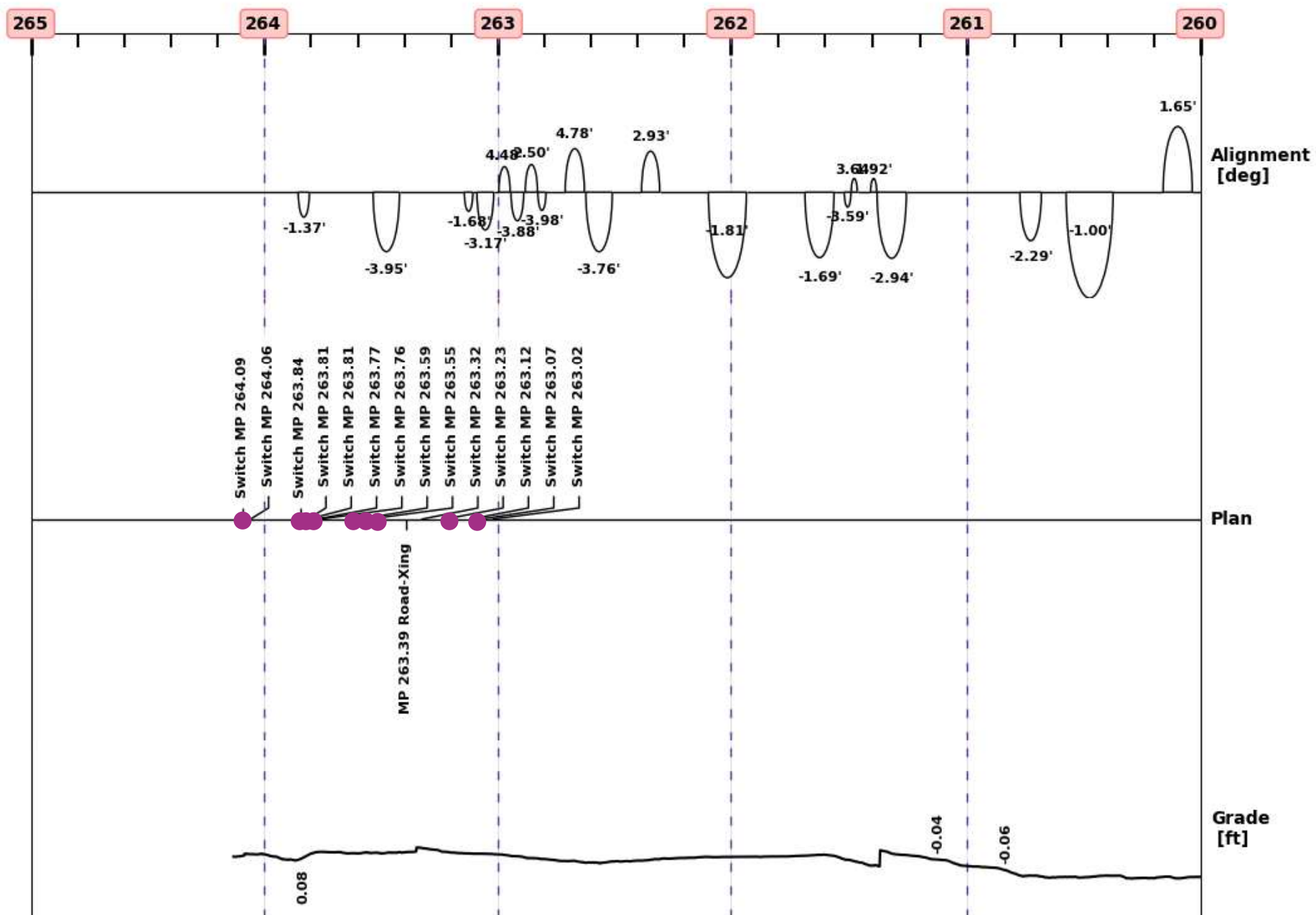
Task #2 - Van Buren Turnout Replacement				
Item	Unit	Quantity	Unit Cost	Total Cost
Turnout Replacement Installation (Labour)	Each	6	\$ 30,000.00	\$ 180,000.00
Turnout Package (No.11)	Each	6	\$ 73,316.00	\$ 439,896.00
Cross Tie (7x9x9')	Each	60	\$ 117.12	\$ 7,027.00
Cross Tie (7x9x10')	Each	102	\$ 130.14	\$ 13,274.00
Cross Tie (7x9x11')	Each	54	\$ 143.15	\$ 7,730.00
Cross Tie (7x9x12')	Each	48	\$ 156.16	\$ 7,496.00
Cross Tie (7x9x13')	Each	48	\$ 169.18	\$ 8,121.00
Cross Tie (7x9x14')	Each	36	\$ 182.20	\$ 6,559.00
Cross Tie (7x9x15')	Each	48	\$ 195.20	\$ 9,370.00
Cross Tie (7x9x16')	Each	72	\$ 208.20	\$ 14,990.00
Total Estimated Cost:			\$ 694,463.00	

Task #2 - Van Buren Ballast Placement and Surfacing				
Item	Unit	Quantity	Unit Cost	Total Cost
Ballast Placement and Surfacing (Labour)	Tons	29,000	\$ 10.00	\$ 290,000.00
Ballast Transportation	Trains	21	\$ 15,000.00	\$ 315,000.00
Crossing Planks (7X10X16)	Each	560	\$ 100.71	\$ 56,398.00
Ballast (No.4/4A)	Tons	29,000	\$ 19.16	\$ 555,640.00
Total Estimated Cost:			\$ 1,217,038.00	

Contingency:	\$ 2,315,000.00
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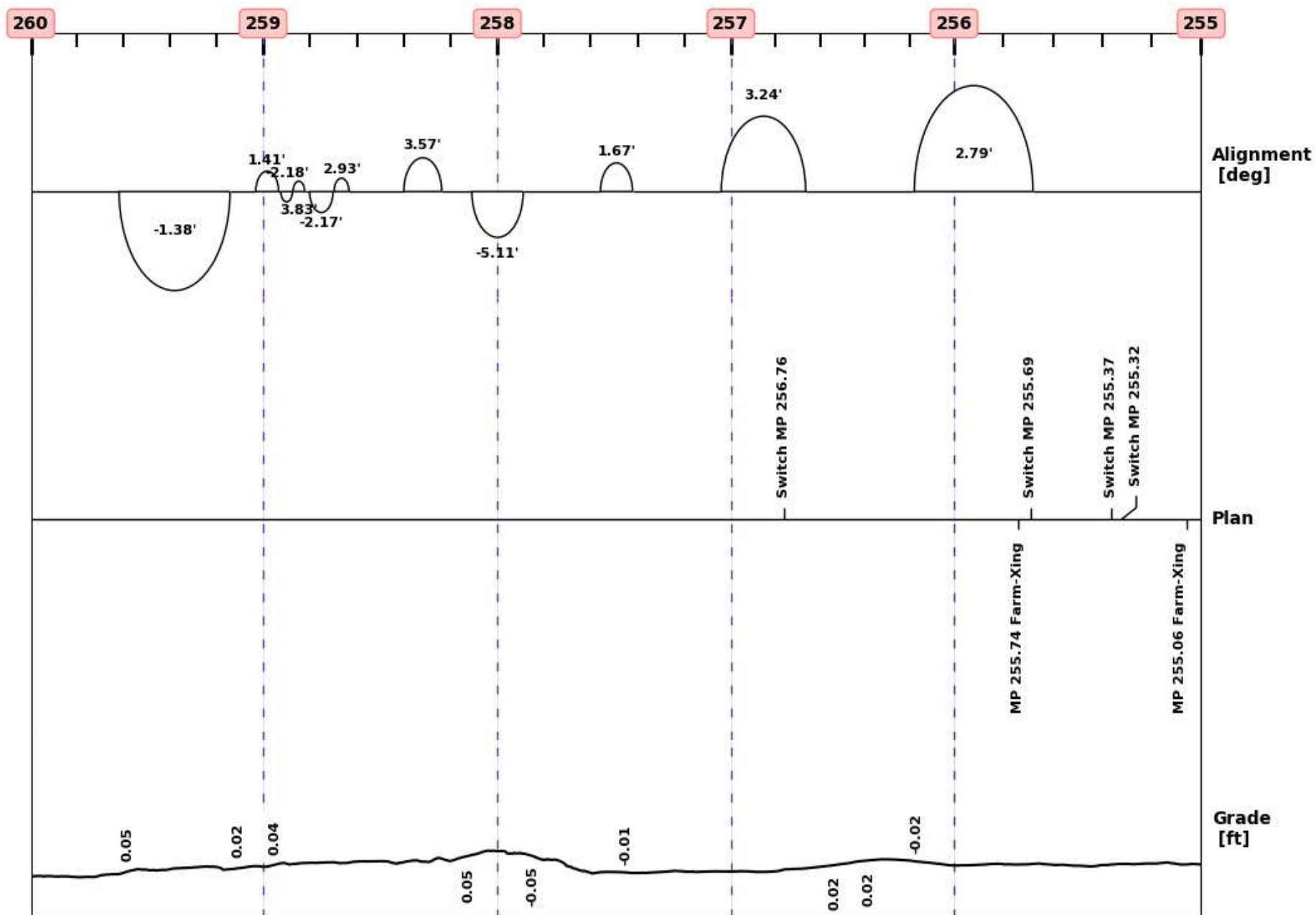
Total Estimated Cost (Say):	\$ 46,300,000.00
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Summary of Quantities for Procurement				
Item	Unit	Quantity	Unit Cost	Total Cost
Anchors (115lb)	Each	209,088	\$ 2.25	\$ 470,448.00
Ballast (No.4/4A)	Tons	69,000	\$ 19.16	\$ 1,322,040.00
Bolts with washers (115lb)	Each	10,692	\$ 6.50	\$ 69,498.00
Cross Tie (7x9x10')	Each	578	\$ 130.14	\$ 75,221.00
Cross Tie (7x9x11')	Each	306	\$ 143.15	\$ 43,804.00
Cross Tie (7x9x12')	Each	272	\$ 156.16	\$ 42,476.00
Cross Tie (7x9x13')	Each	272	\$ 169.18	\$ 46,017.00
Cross Tie (7x9x14')	Each	204	\$ 182.19	\$ 37,167.00
Cross Tie (7x9x15')	Each	272	\$ 195.20	\$ 53,094.00
Cross Tie (7x9x16')	Each	408	\$ 208.20	\$ 84,946.00
Cross Tie (7x9x9')	Each	340	\$ 117.12	\$ 39,821.00
Cross Ties (6x8x8'6)	Each	72,000	\$ 53.90	\$ 3,880,800.00
Crossing Planks (7X10X16)	Each	560	\$ 100.71	\$ 56,398.00
Joint Bars (115lb RE)	Pair	1,782	\$ 172.14	\$ 306,753.00
Rail (115RE) - 1600' lengths	LF	253,440	\$ 42.00	\$ 10,644,480.00
Rail (115RE) - 80' lengths	LF	142,560	\$ 35.37	\$ 5,042,349.00
Tie Plates (115lb)	Each	237,600	\$ 19.79	\$ 4,702,104.00
Track Spikes	Keg	25,440	\$ 50.00	\$ 1,272,000.00
Turnout Package (No.11)	Each	34	\$ 73,316.00	\$ 2,492,744.00
Total Estimated Cost (Materials Only):				\$ 30,682,160.00



Tie Replacement (Approx. 800 ties/TM)

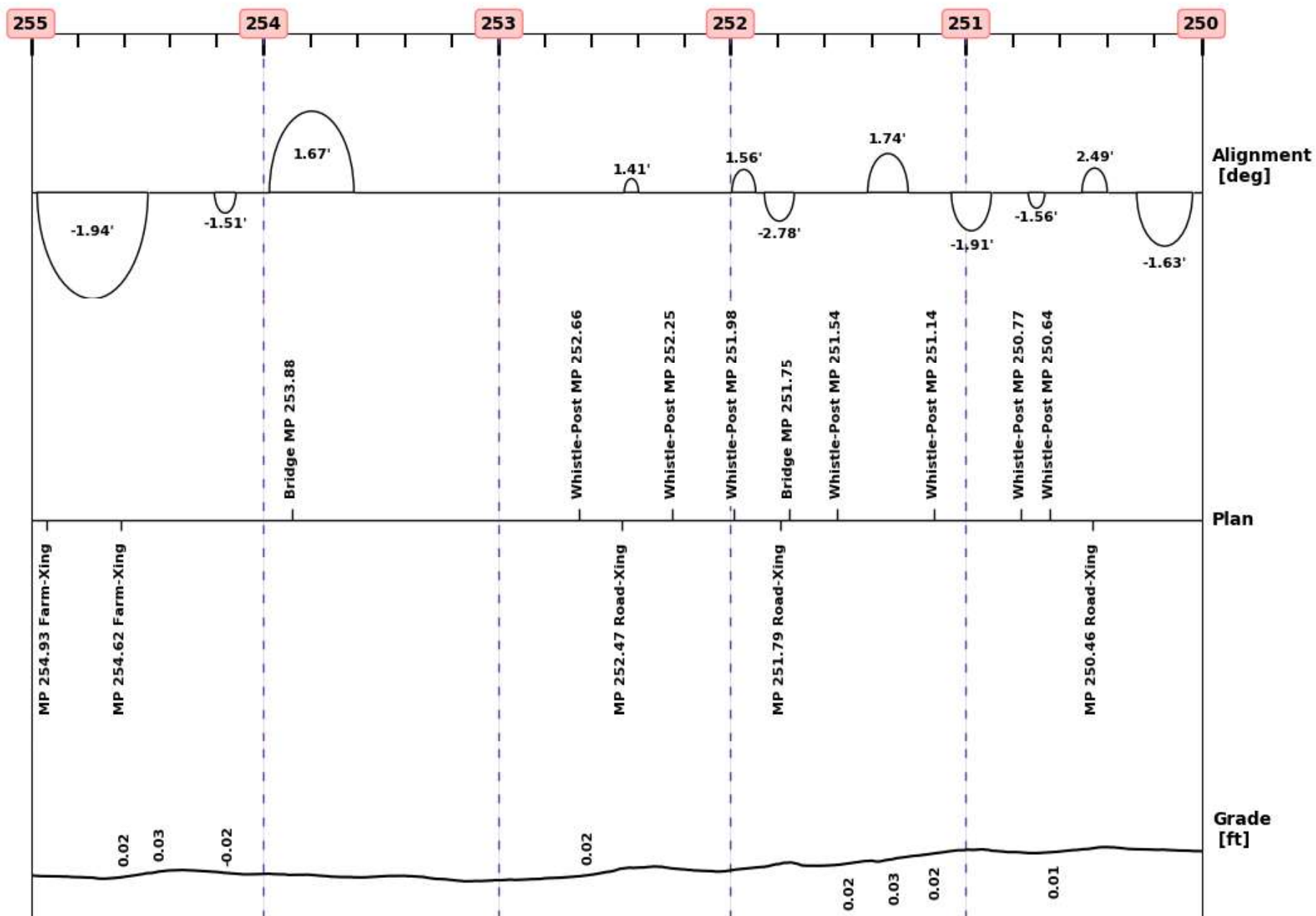
Ballast Placement and Surfacing (Approx. 550 tons/TM)



Rail Upgrade (20,160 LF)

Tie Replacement (Approx. 800 ties/TM)

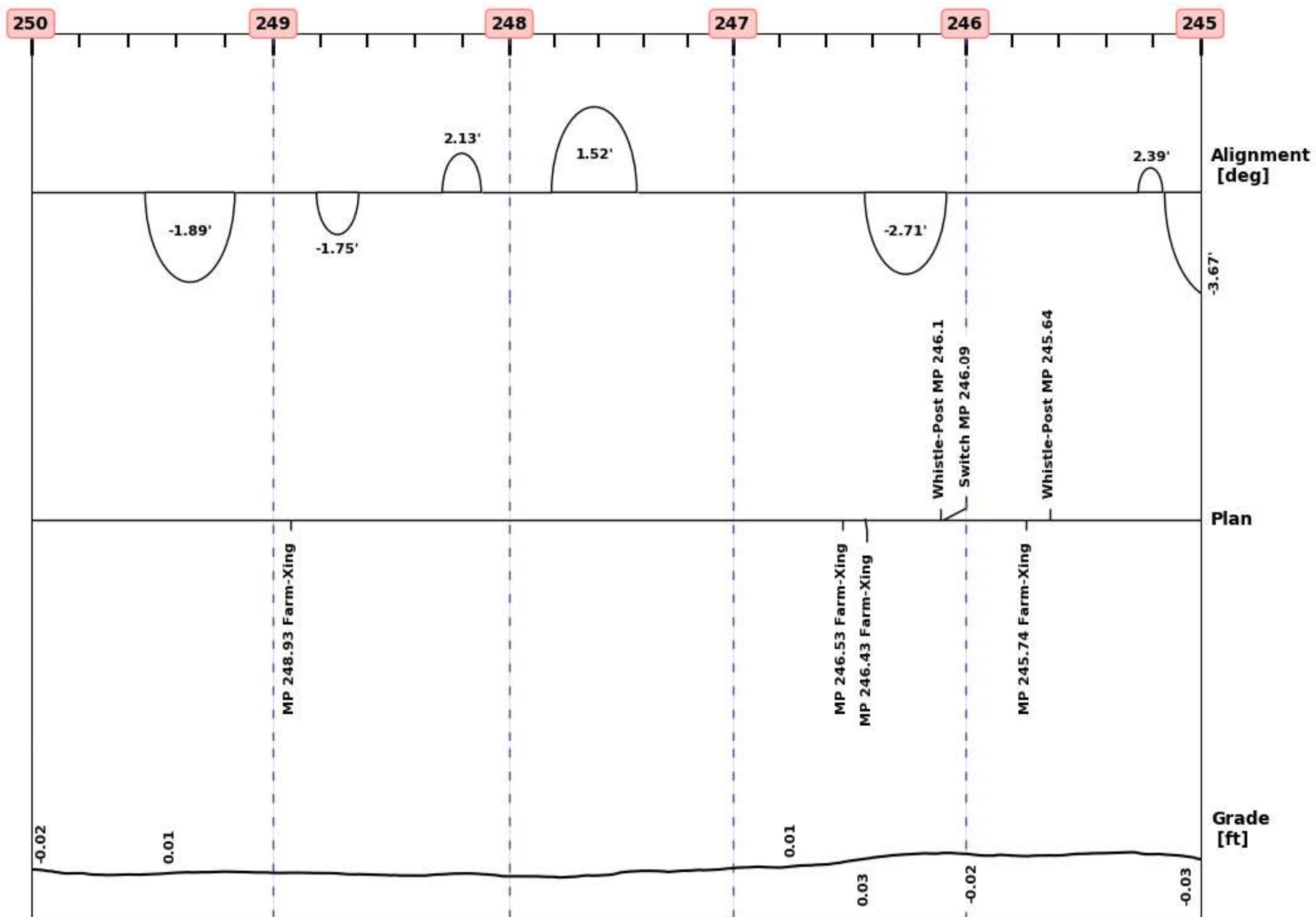
Ballast Placement and Surfacing (Approx. 550 tons/TM)



Rail Upgrade (4160 LF)

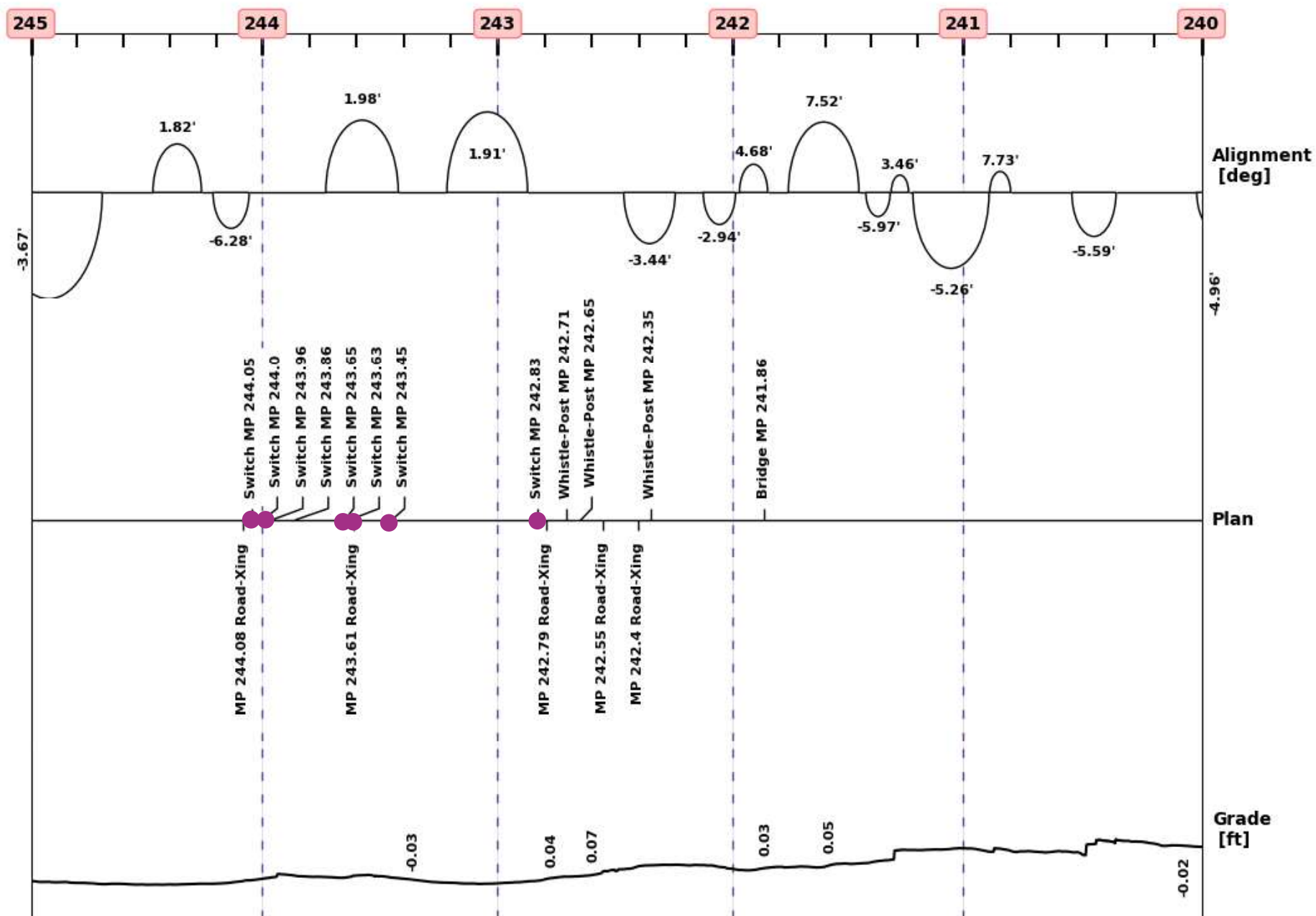
Tie Replacement (Approx. 800 ties/TM)

Ballast Placement and Surfacing (Approx. 550 tons/TM)



Tie Replacement (Approx. 800 ties/TM)

Ballast Placement and Surfacing (Approx. 550 tons/TM)



Rail Upgrade (1200 LF)

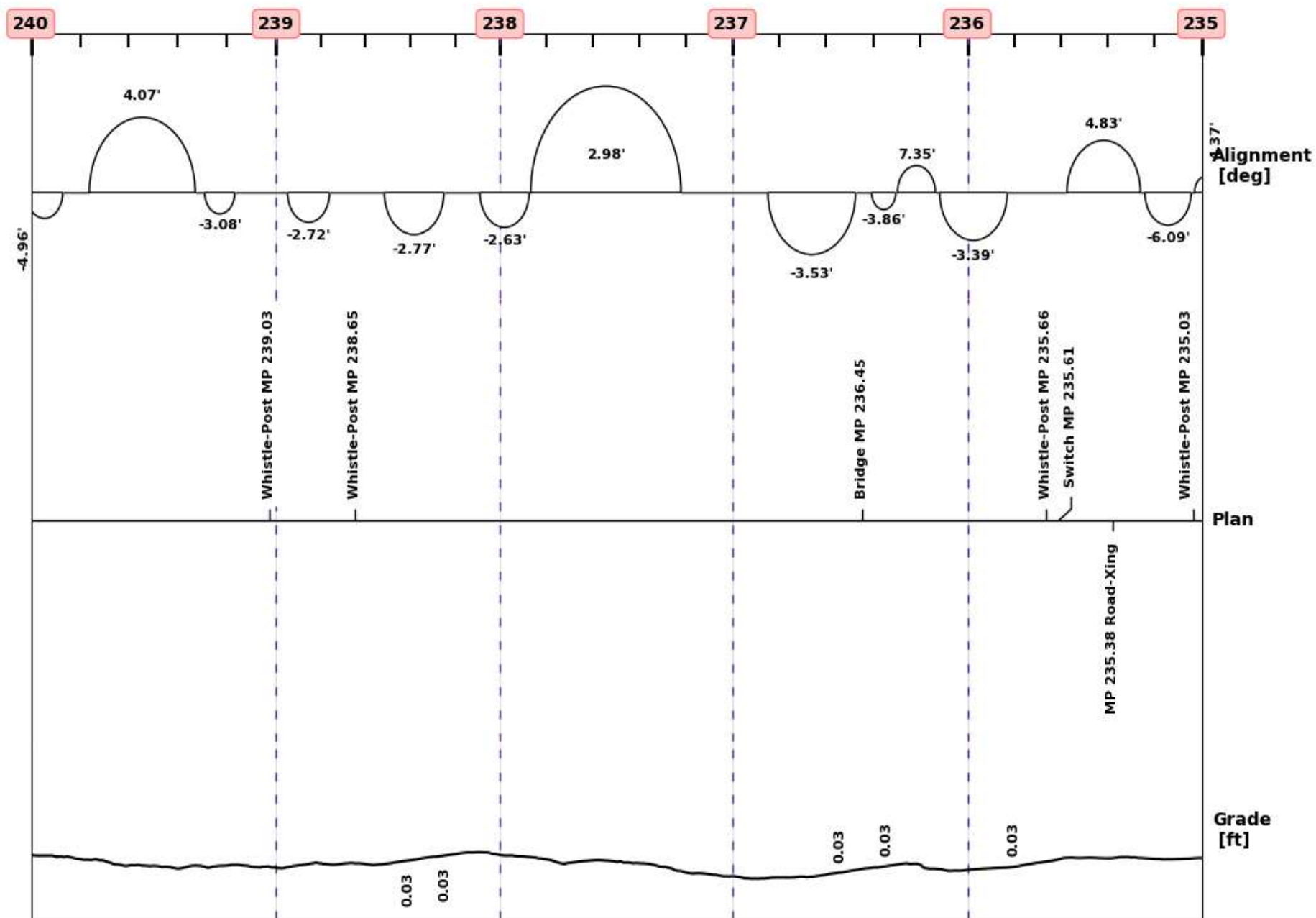
(3440 LF)

(4480 LF)

(720 LF)

Tie Replacement (Approx. 800 ties/TM)

Ballast Placement and Surfacing (Approx. 550 tons/TM)

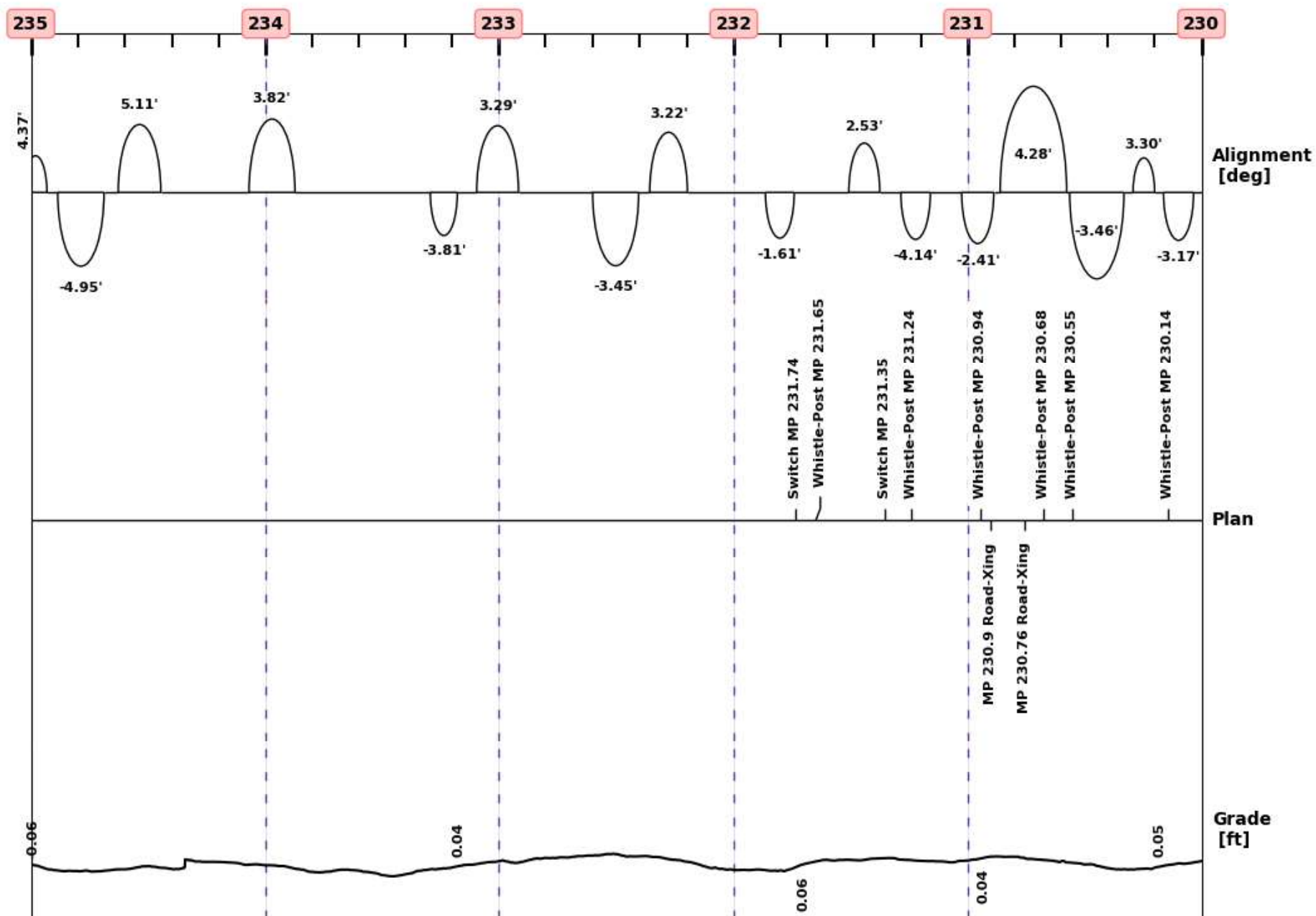


Rail Upgrade (15,120 LF)

(8320 LF)

Tie Replacement (Approx. 800 ties/TM)

Ballast Placement and Surfacing (Approx. 550 tons/TM)

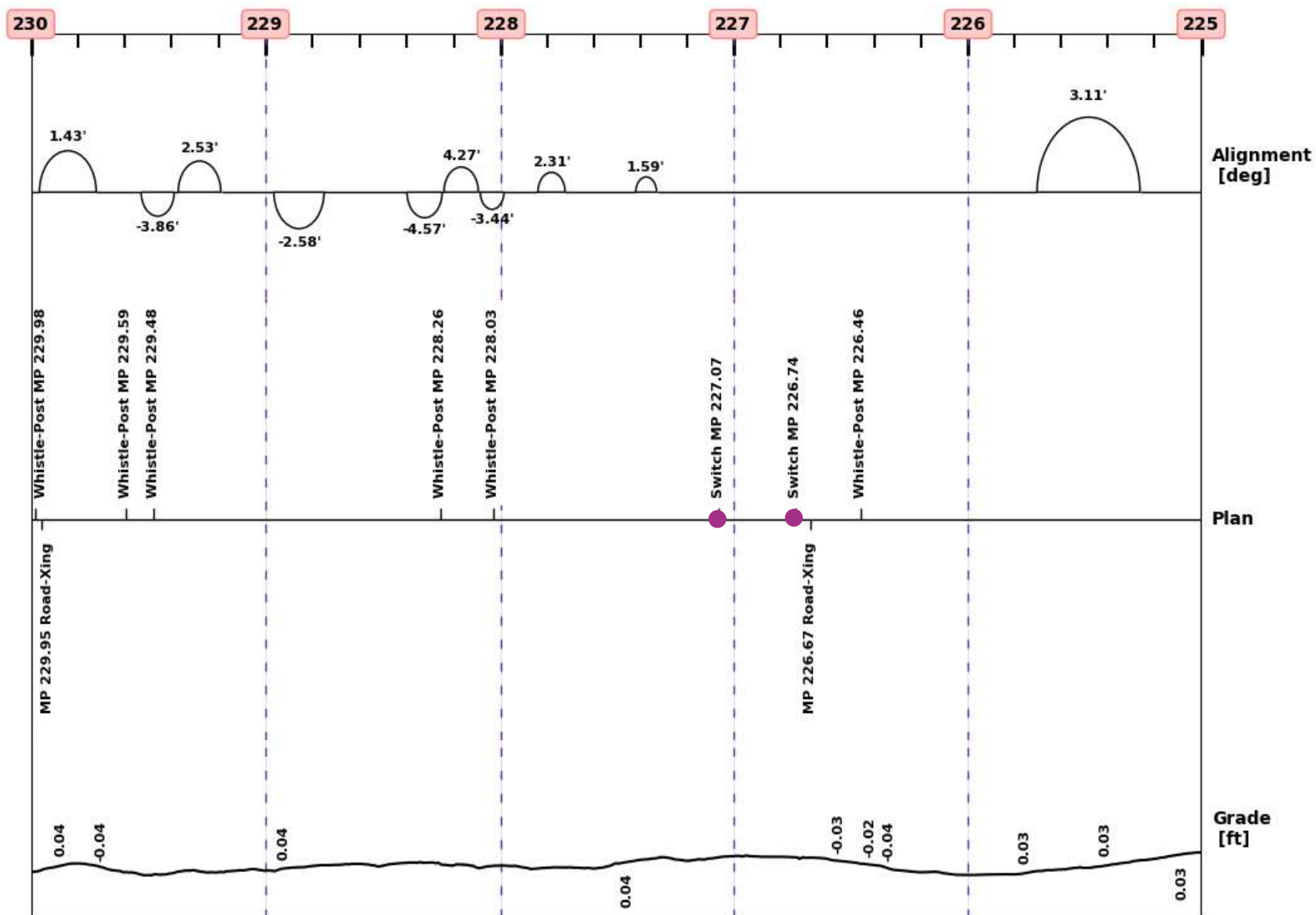


Rail Upgrade (2160 LF) (7040 LF)

(4480 LF)

Tie Replacement (Approx. 800 ties/TM)

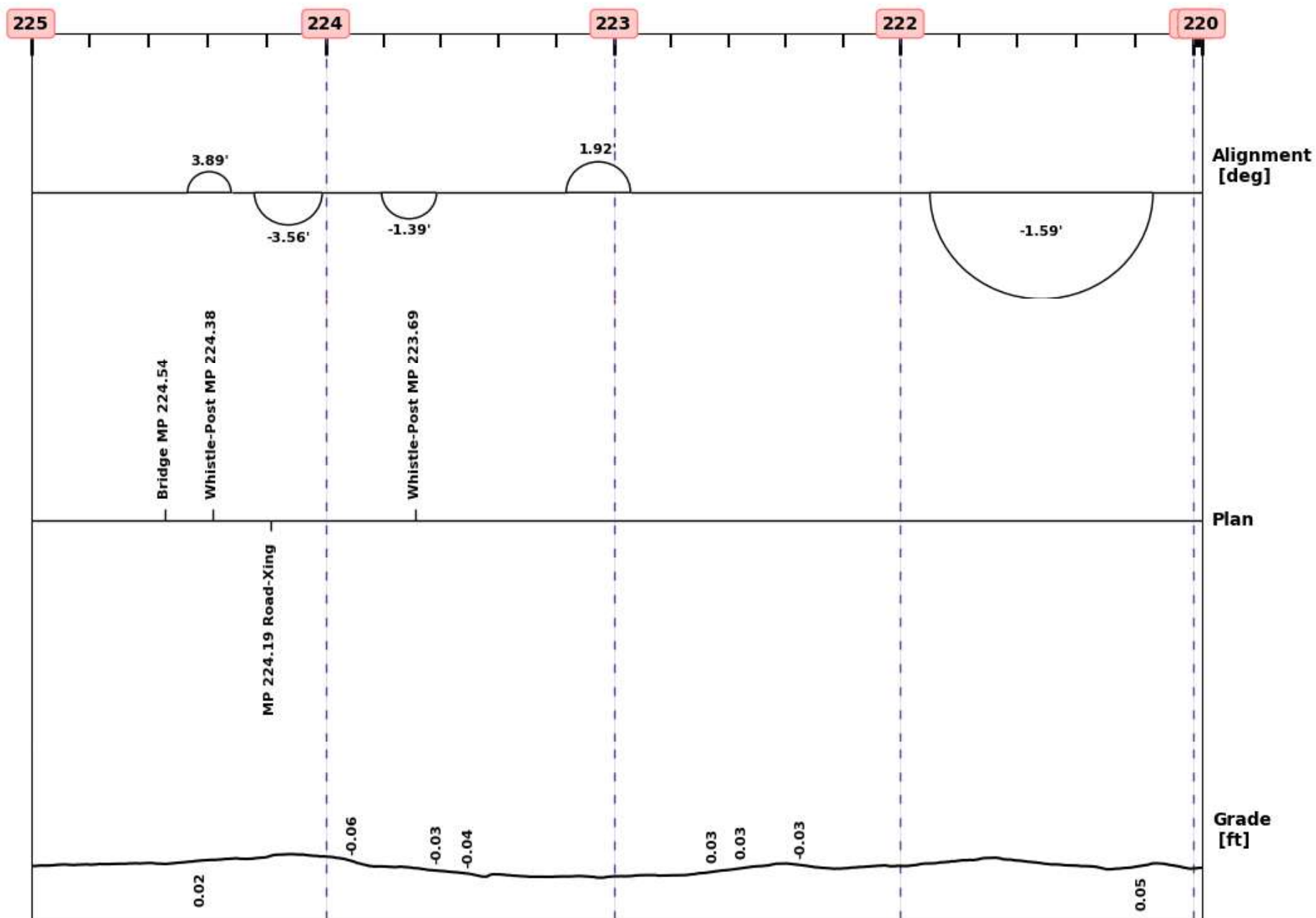
Ballast Placement and Surfacing (Approx. 550 tons/TM)



Rail Upgrade (20,400 LF)

Tie Replacement (Approx. 800 ties/TM)

Ballast Placement and Surfacing (Approx. 550 tons/TM)

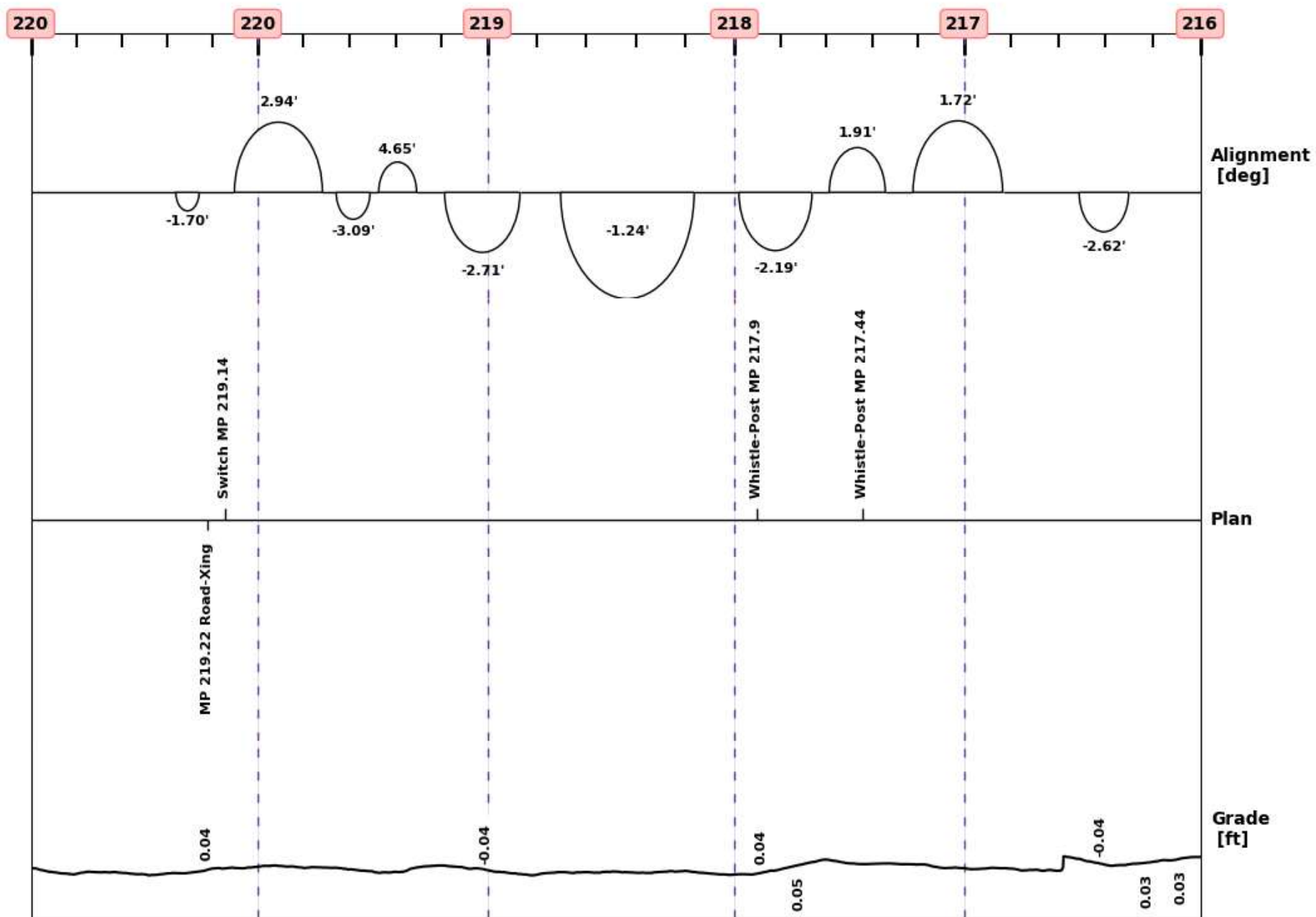


Rail Upgrade (1680 LF)

(7200 LF)

Tie Replacement (Approx. 800 ties/TM)

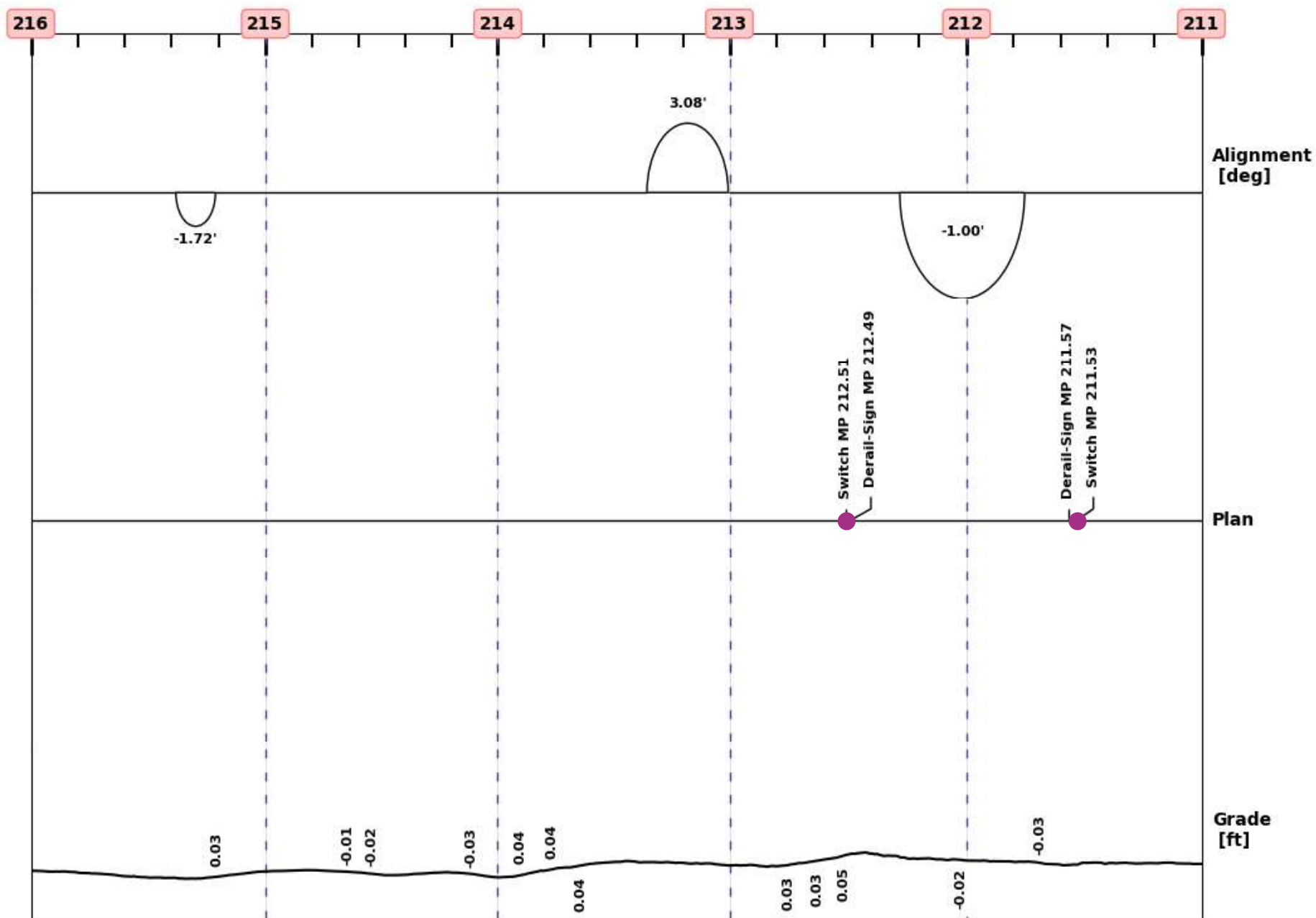
Ballast Placement and Surfacing (Approx. 550 tons/TM)



Rail Upgrade (22,080 LF)

Tie Replacement (Approx. 800 ties/TM)

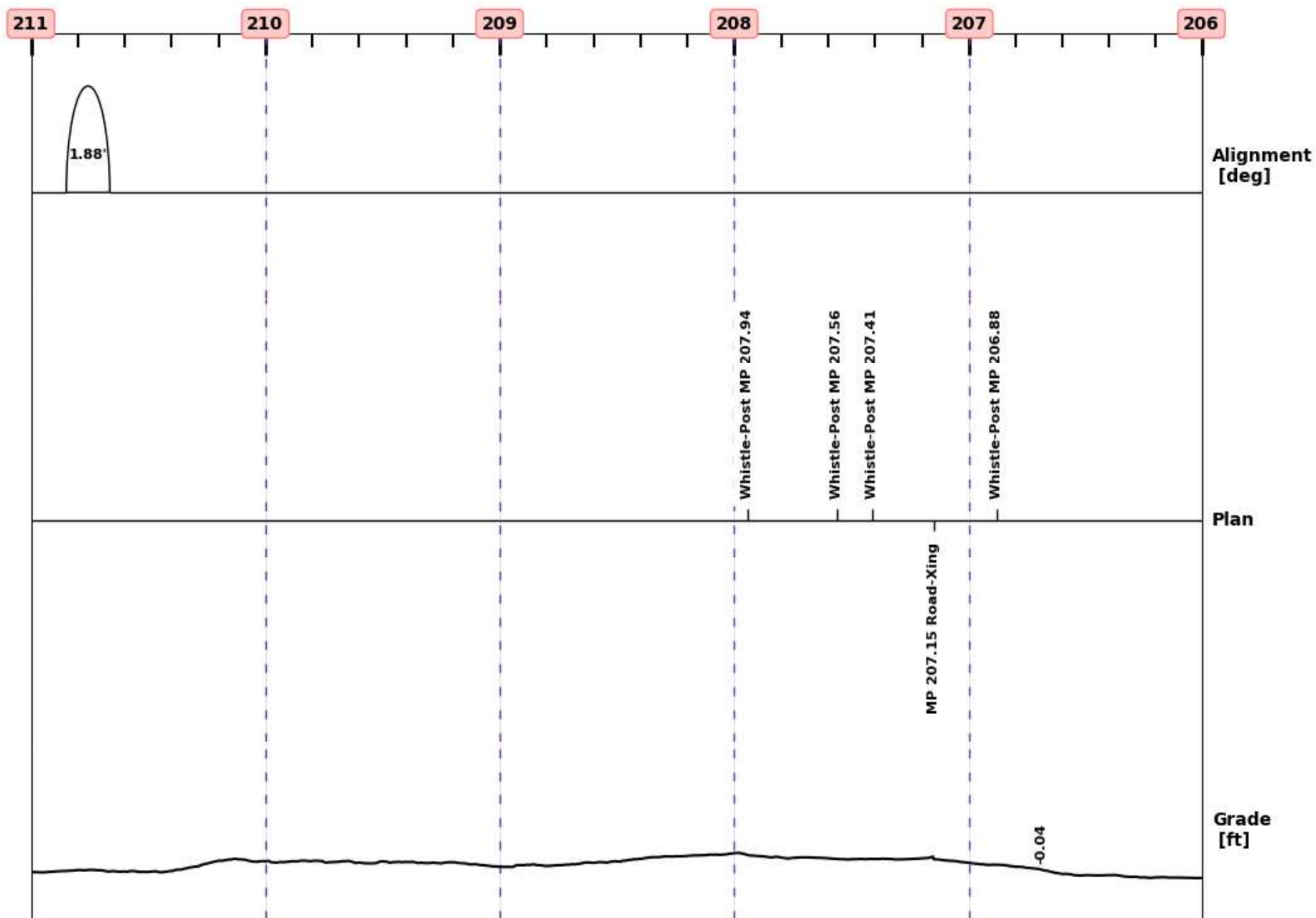
Ballast Placement and Surfacing (Approx. 550 tons/TM)

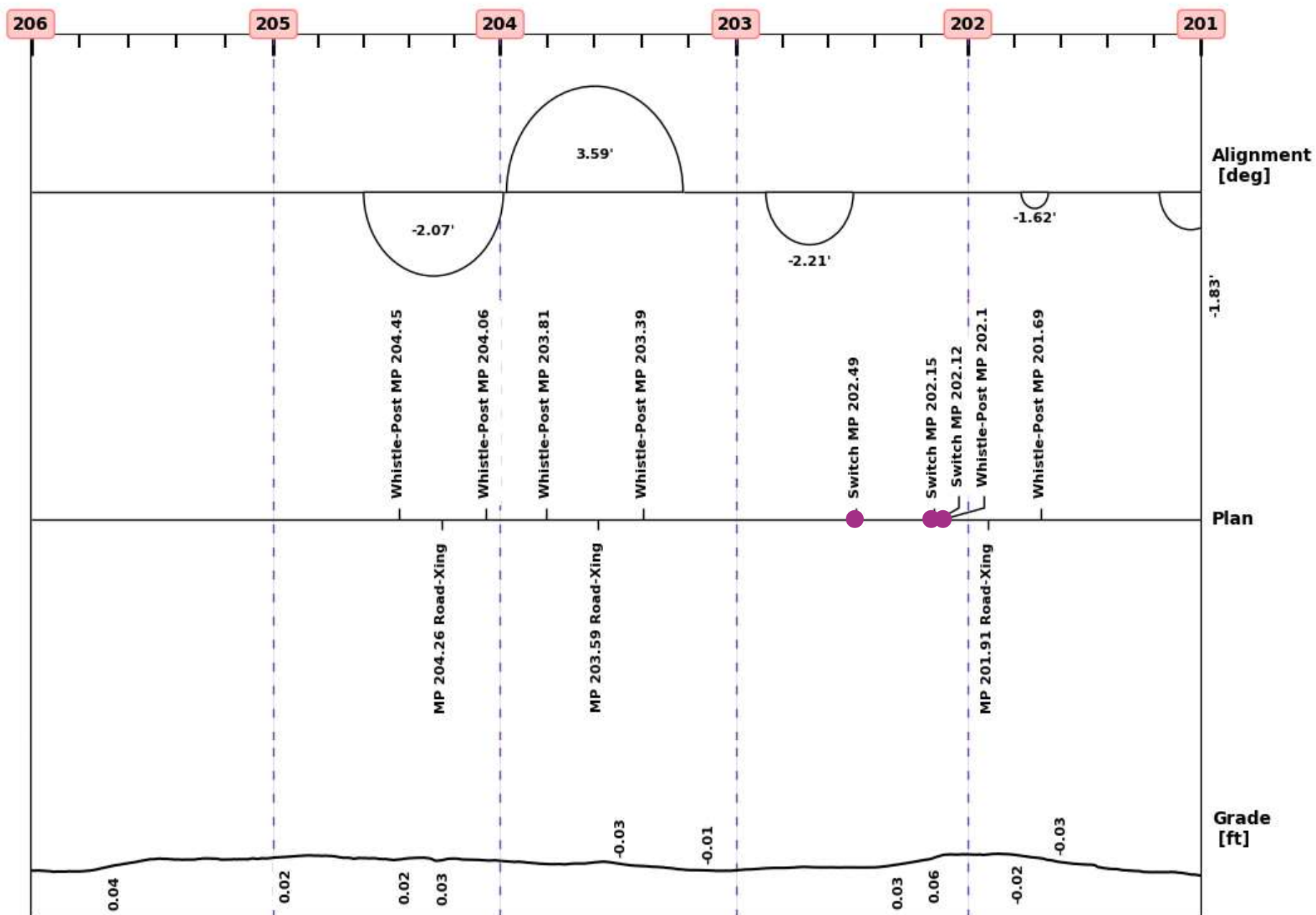


Rail Upgrade (2640 LF)

Tie Replacement (Approx. 800 ties/TM)

Ballast Placement and Surfacing (Approx. 550 tons/TM)





Rail Upgrade (2480 LF)



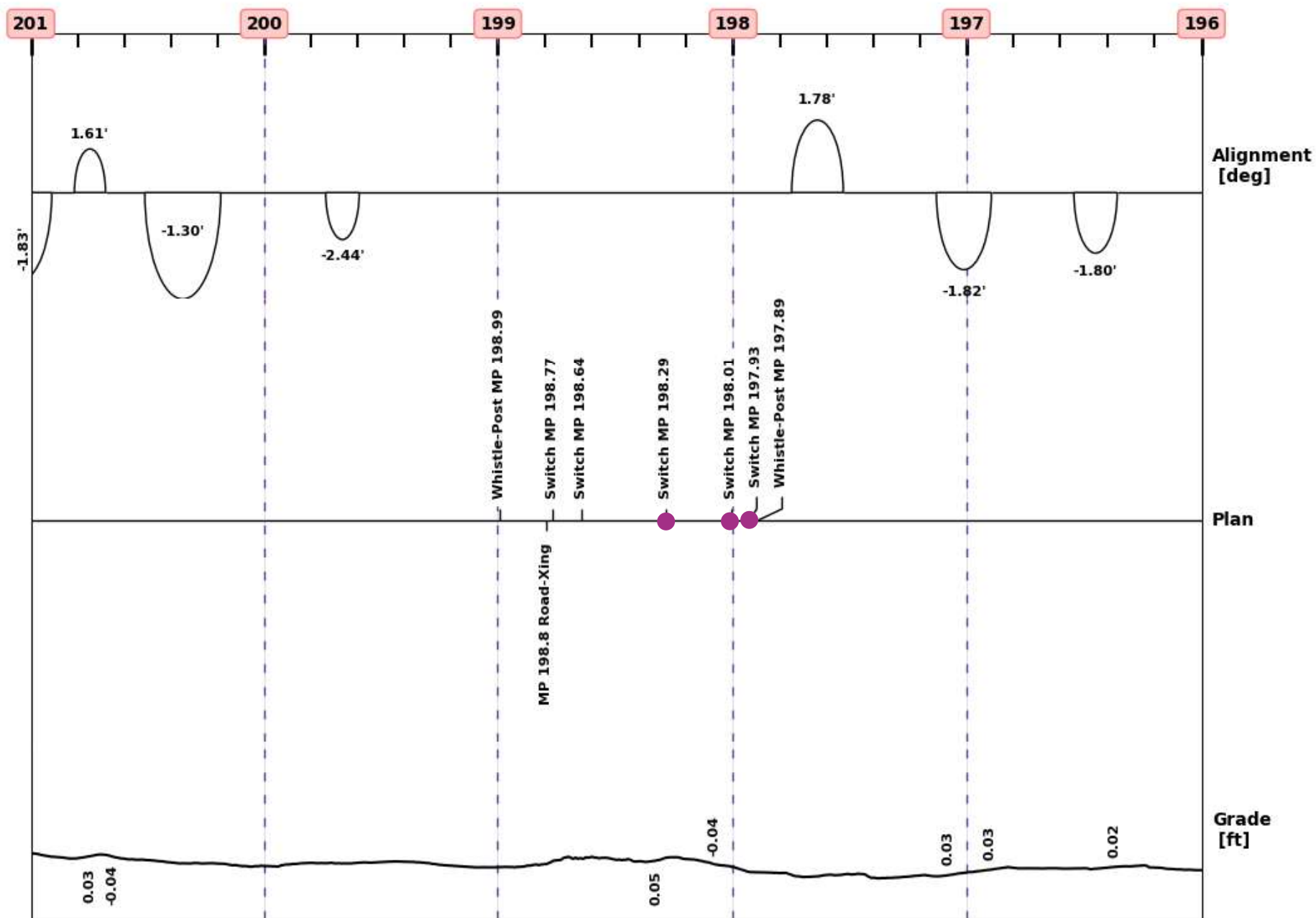
(7520 LF)



Tie Replacement (Approx. 800 ties/TM)

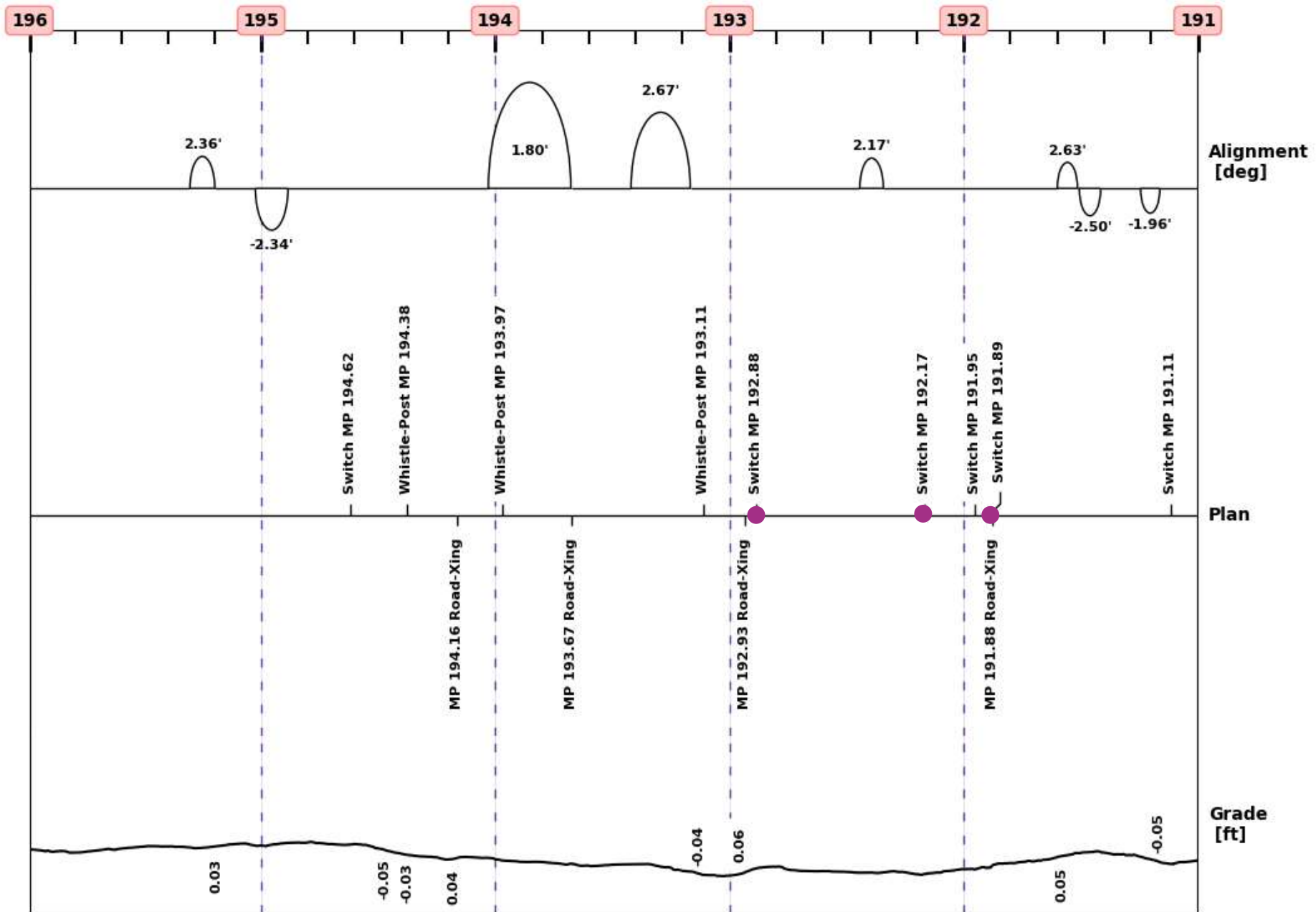


Ballast Placement and Surfacing (Approx. 550 tons/TM)



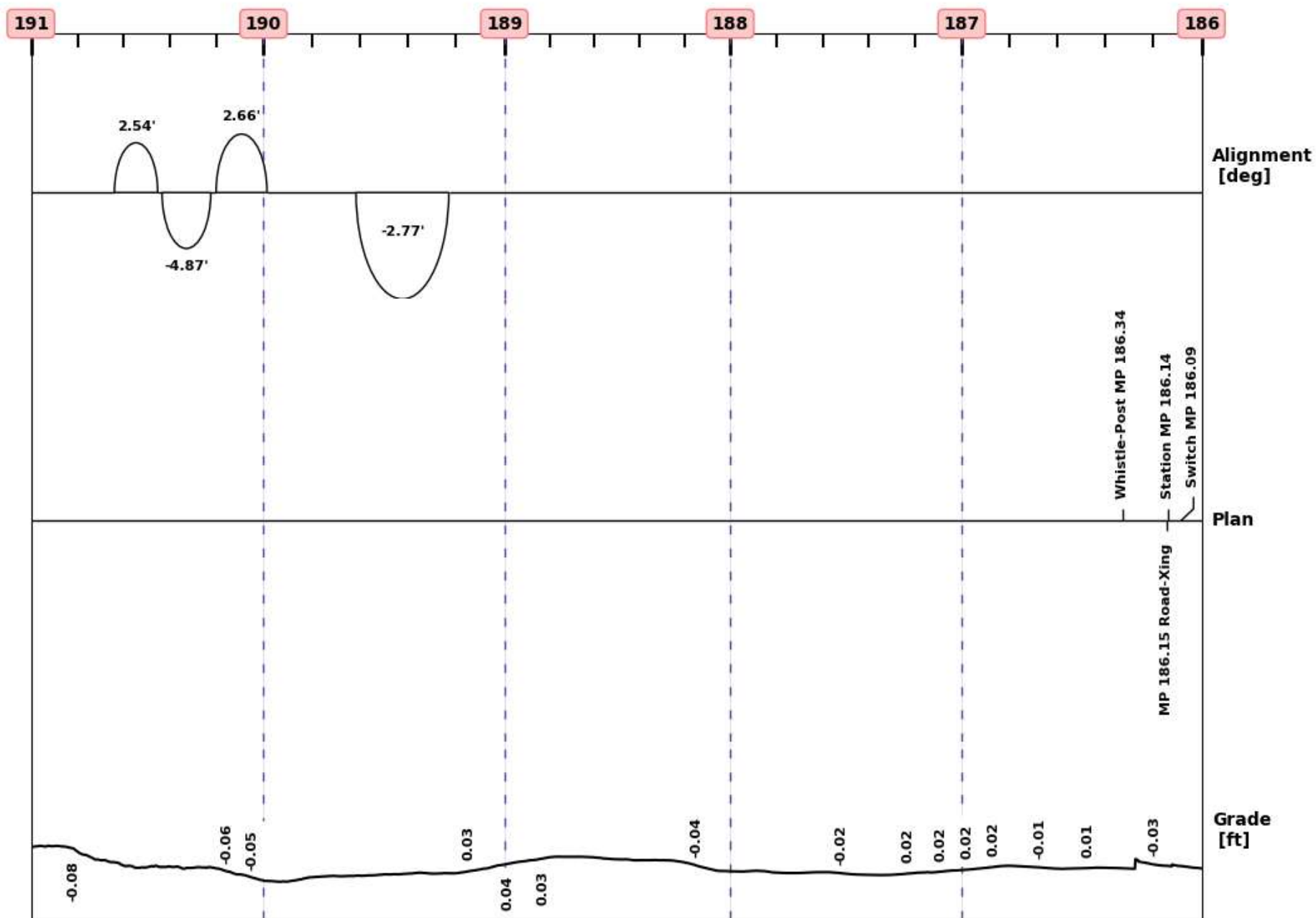
Tie Replacement (Approx. 800 ties/TM)

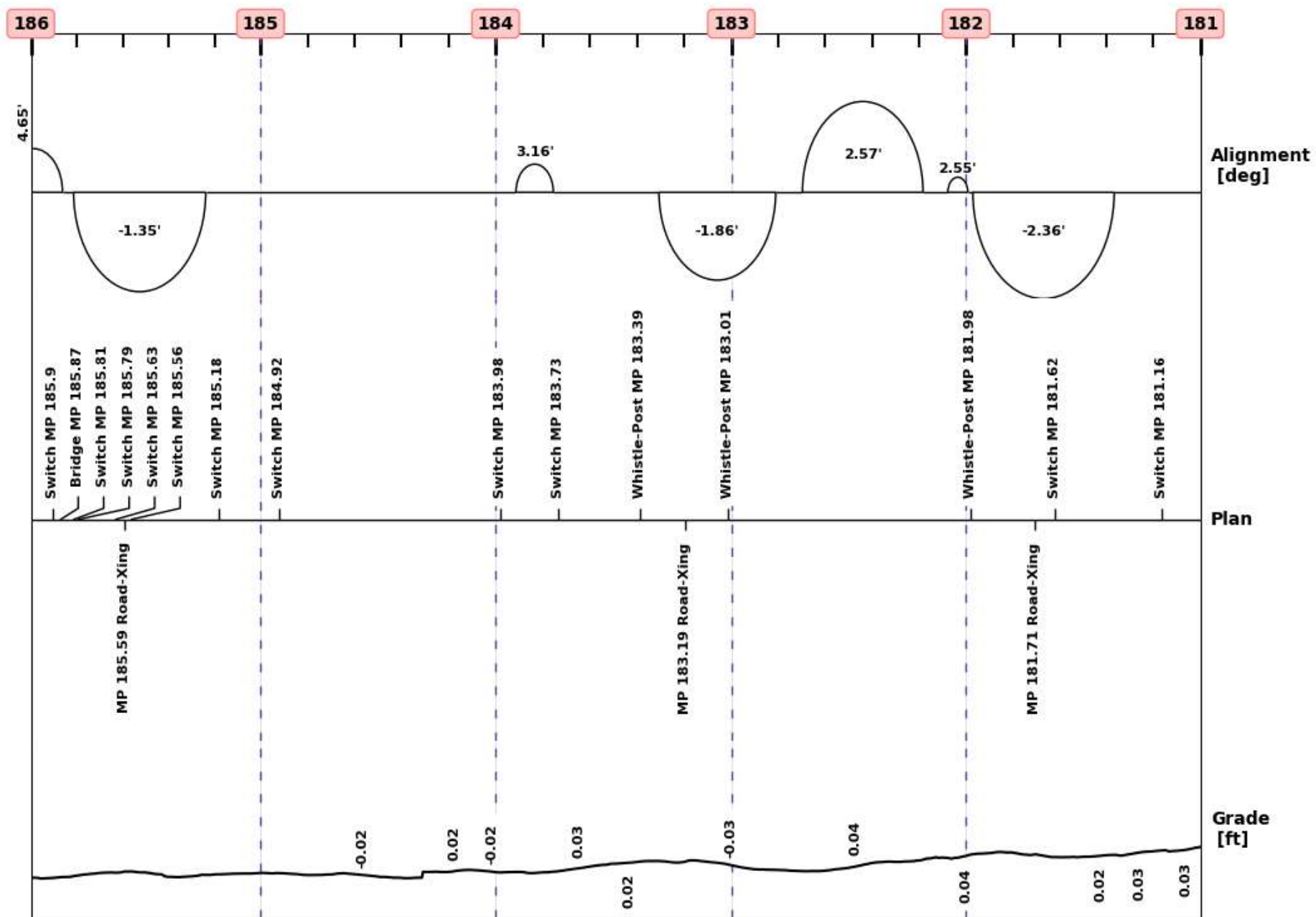
Ballast Placement and Surfacing (Approx. 550 tons/TM)

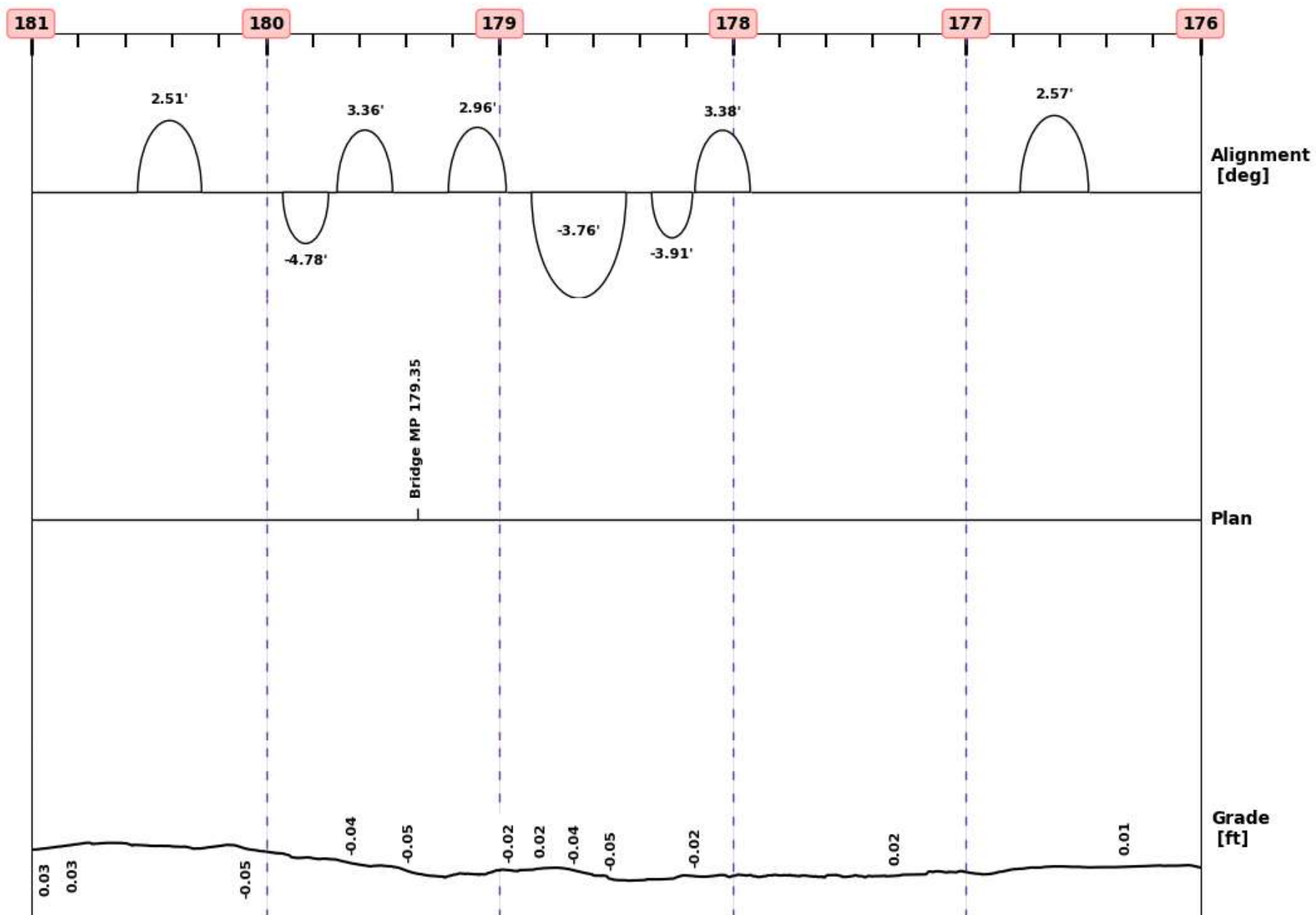


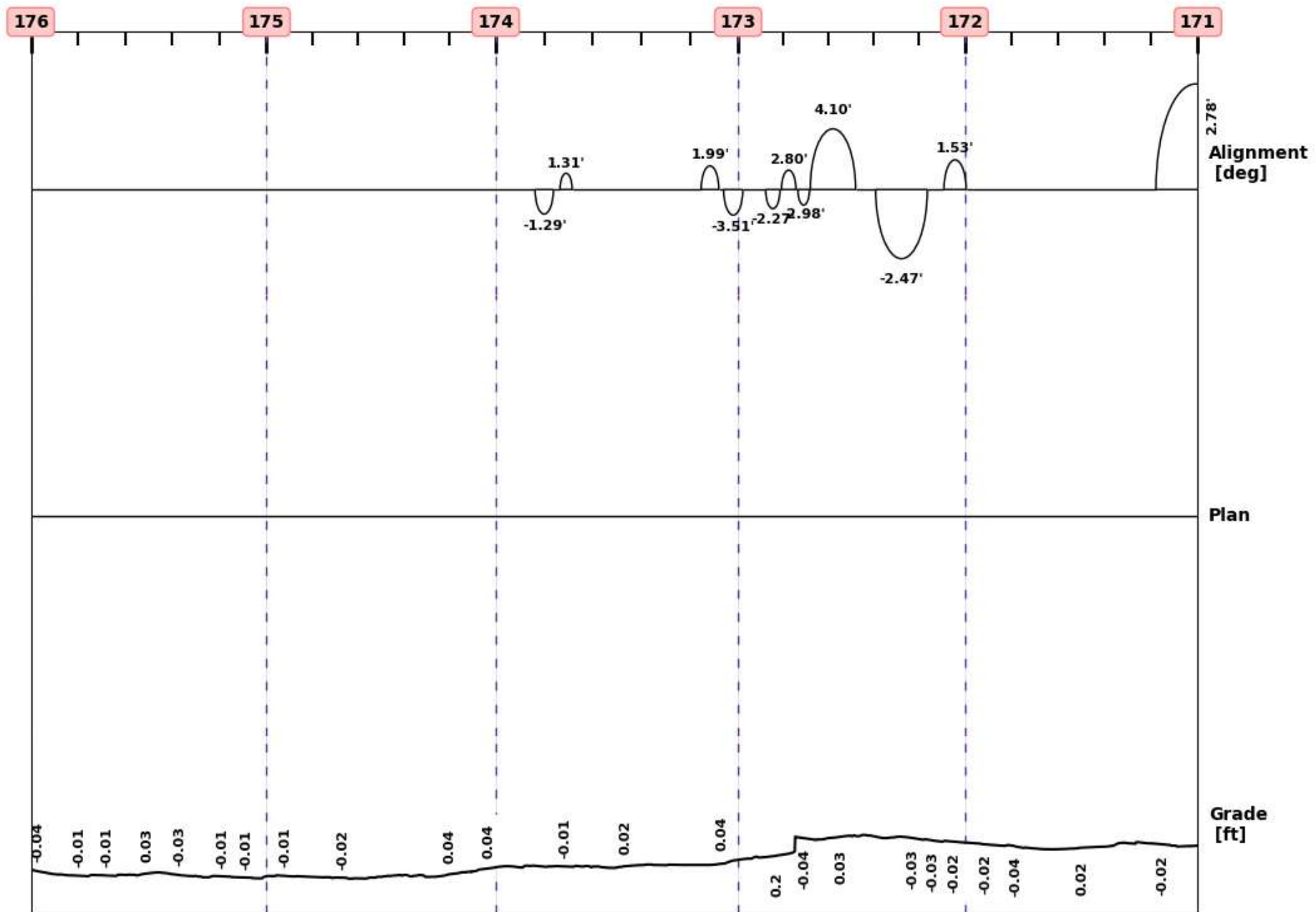
Tie Replacement (Approx. 800 ties/TM)

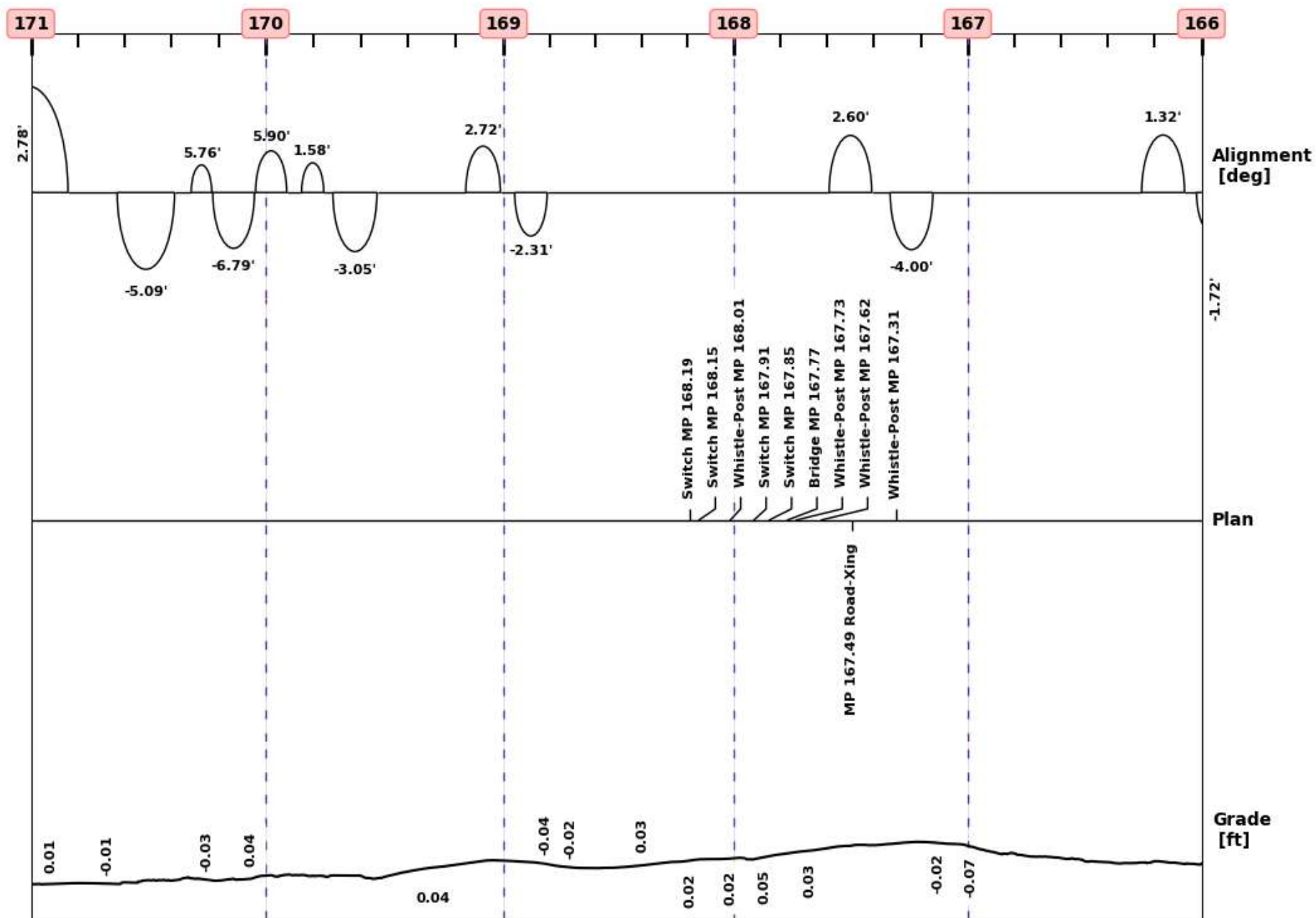
Ballast Placement and Surfacing (Approx. 550 tons/TM)

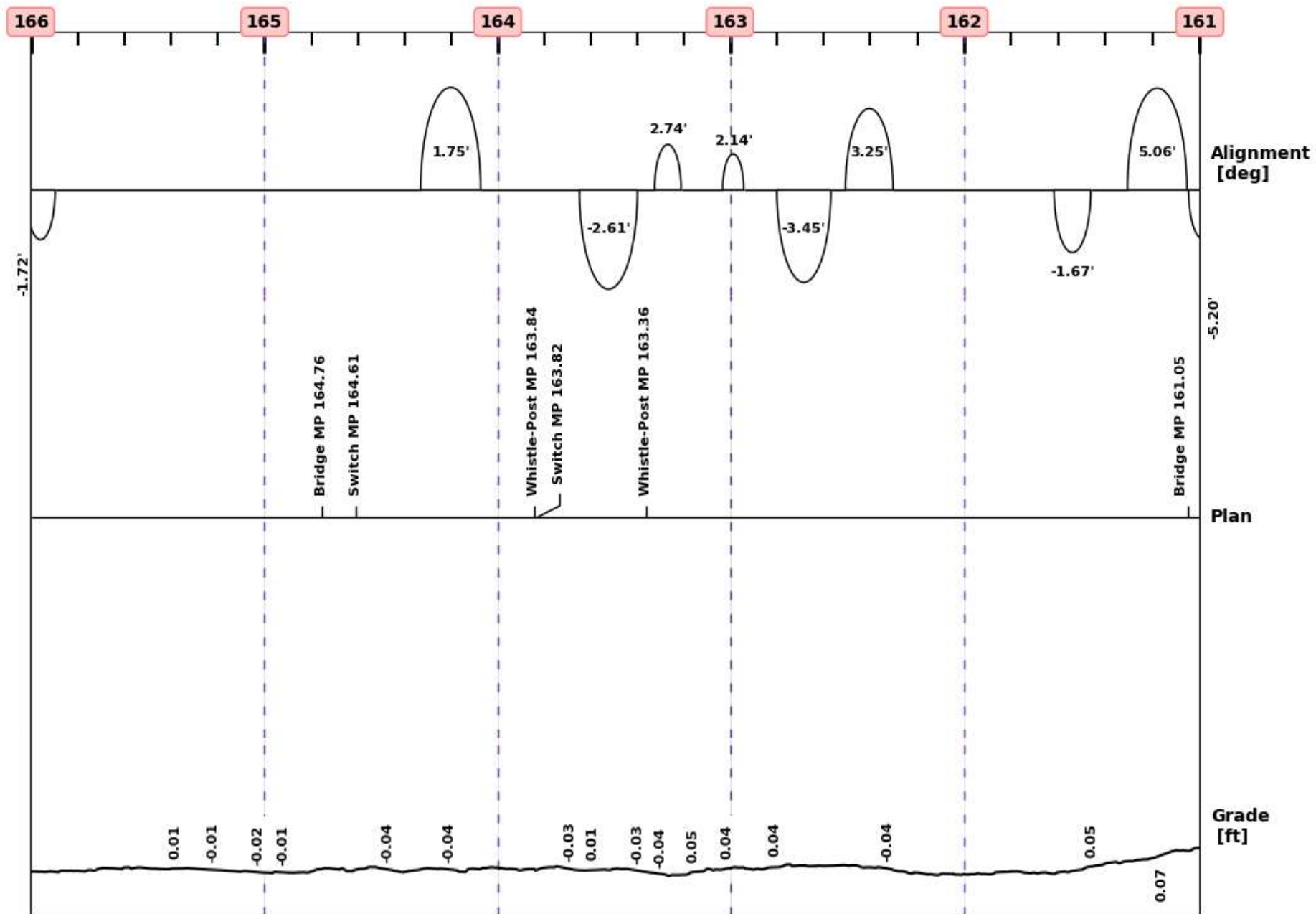


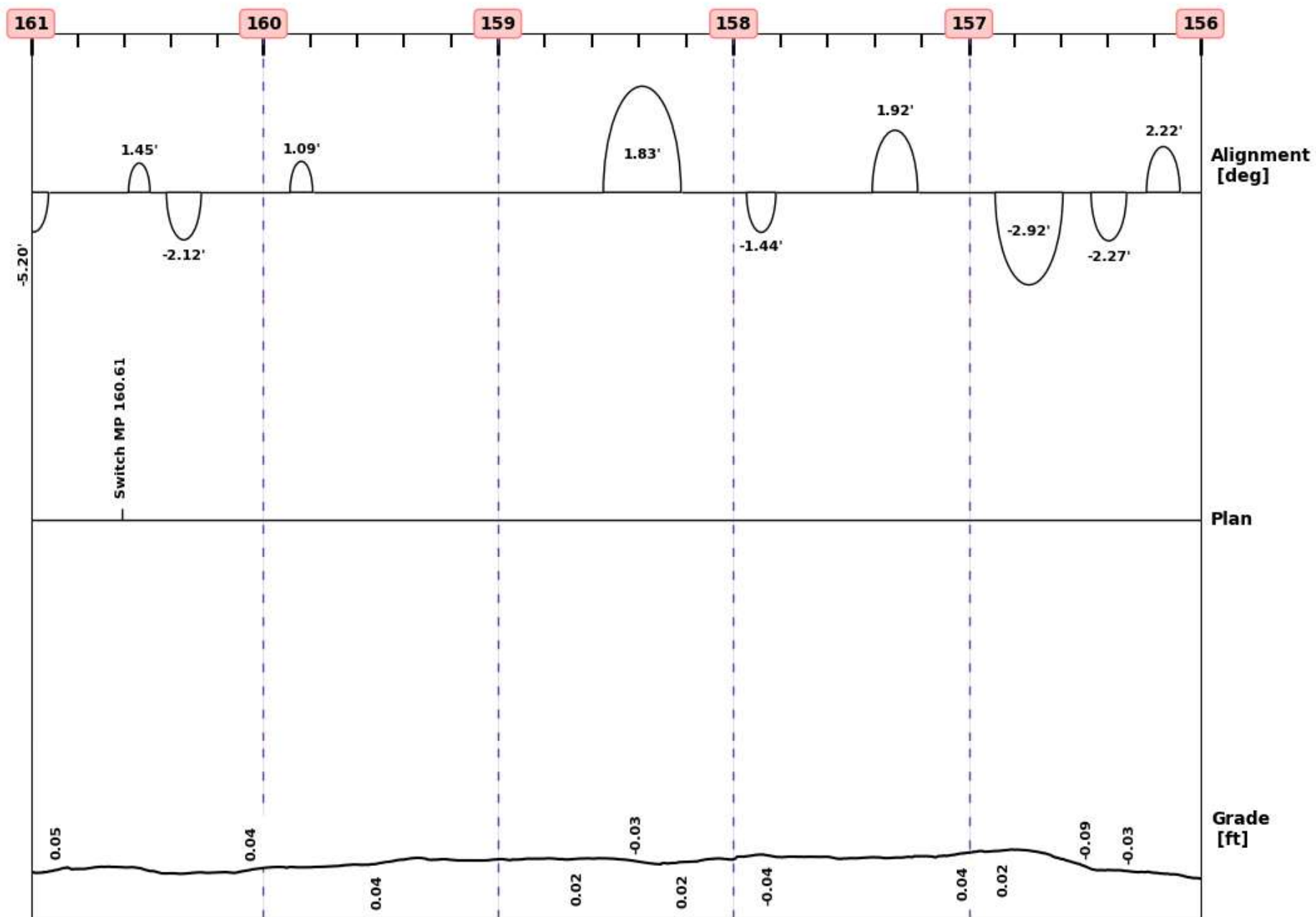


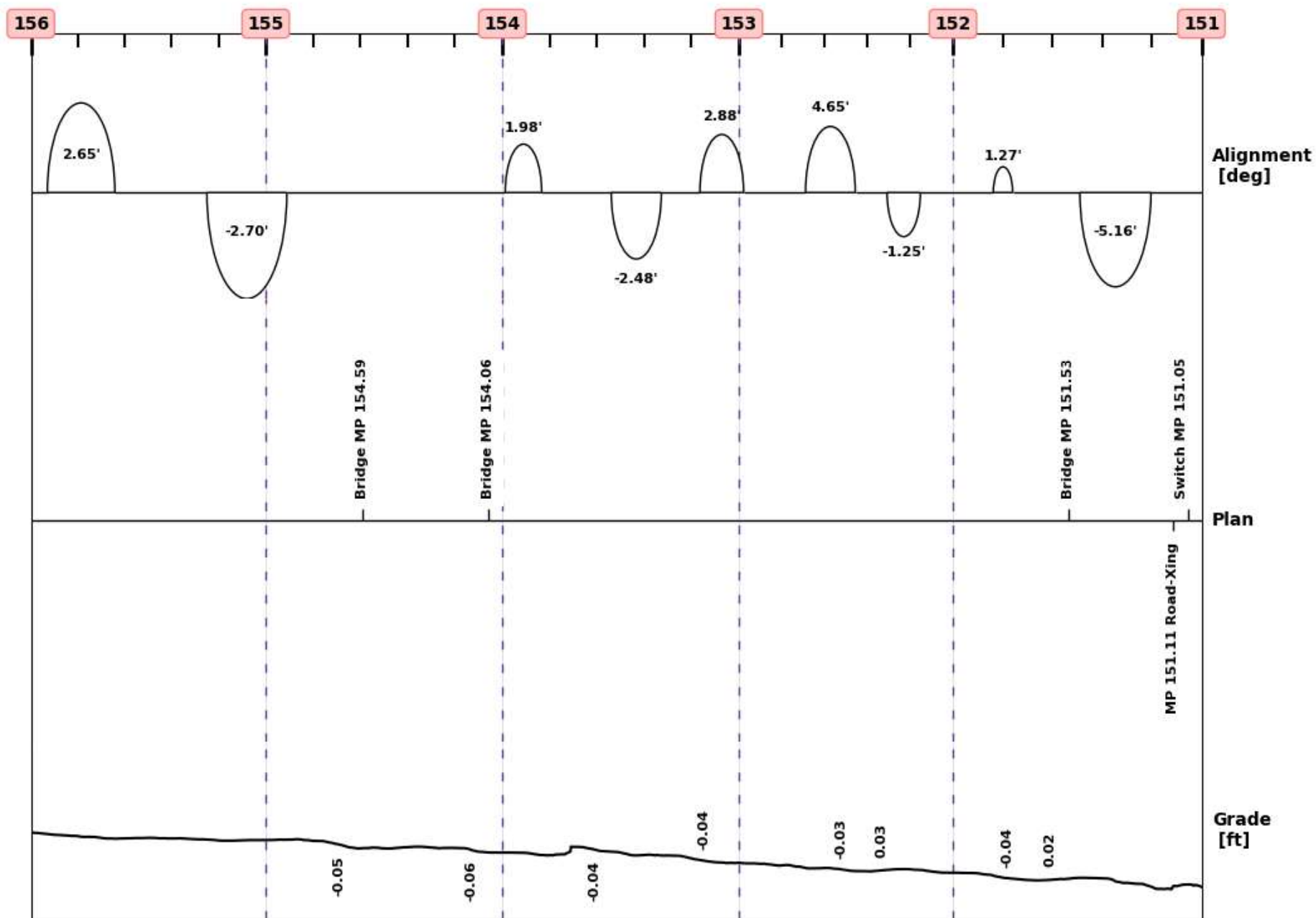


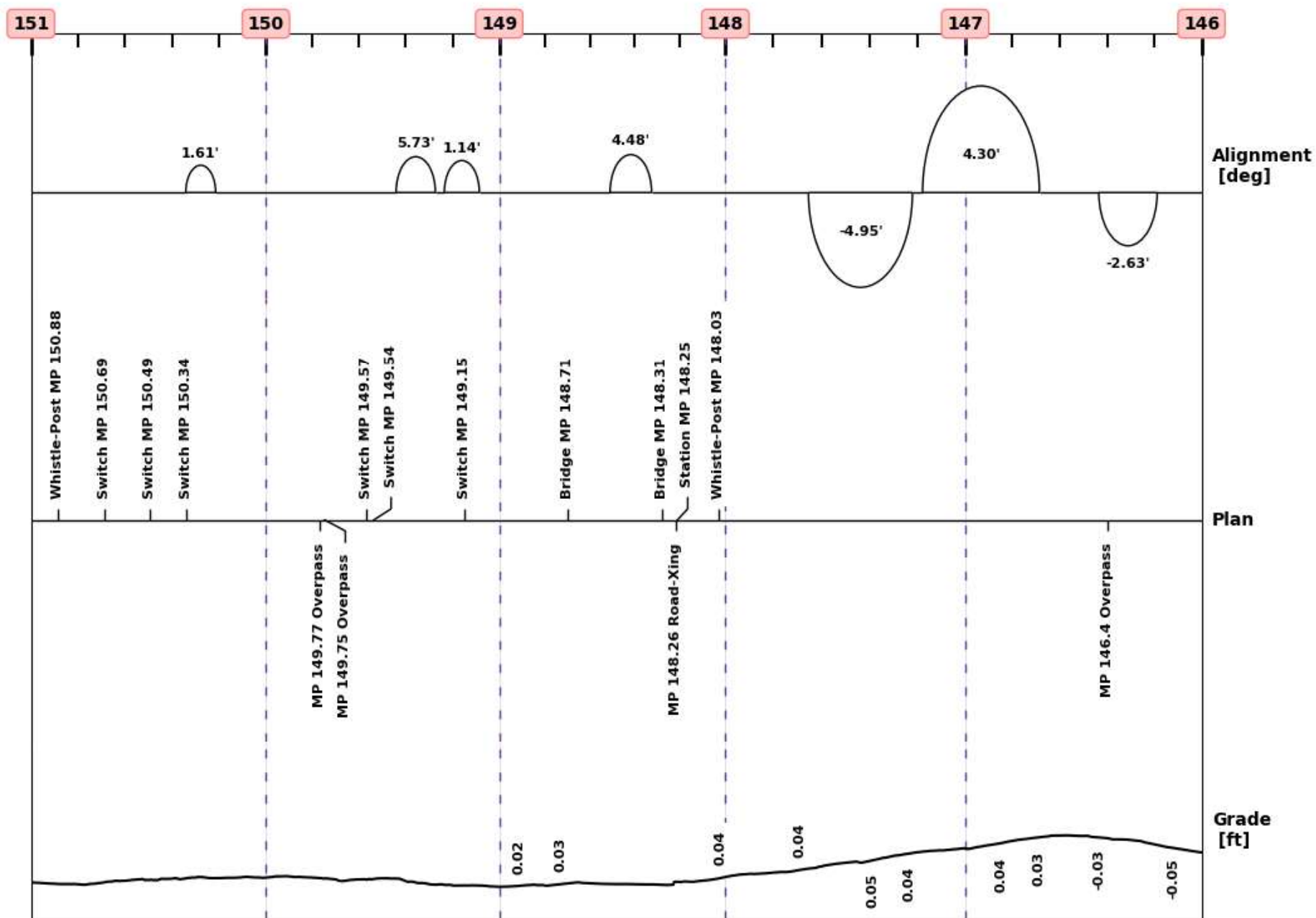


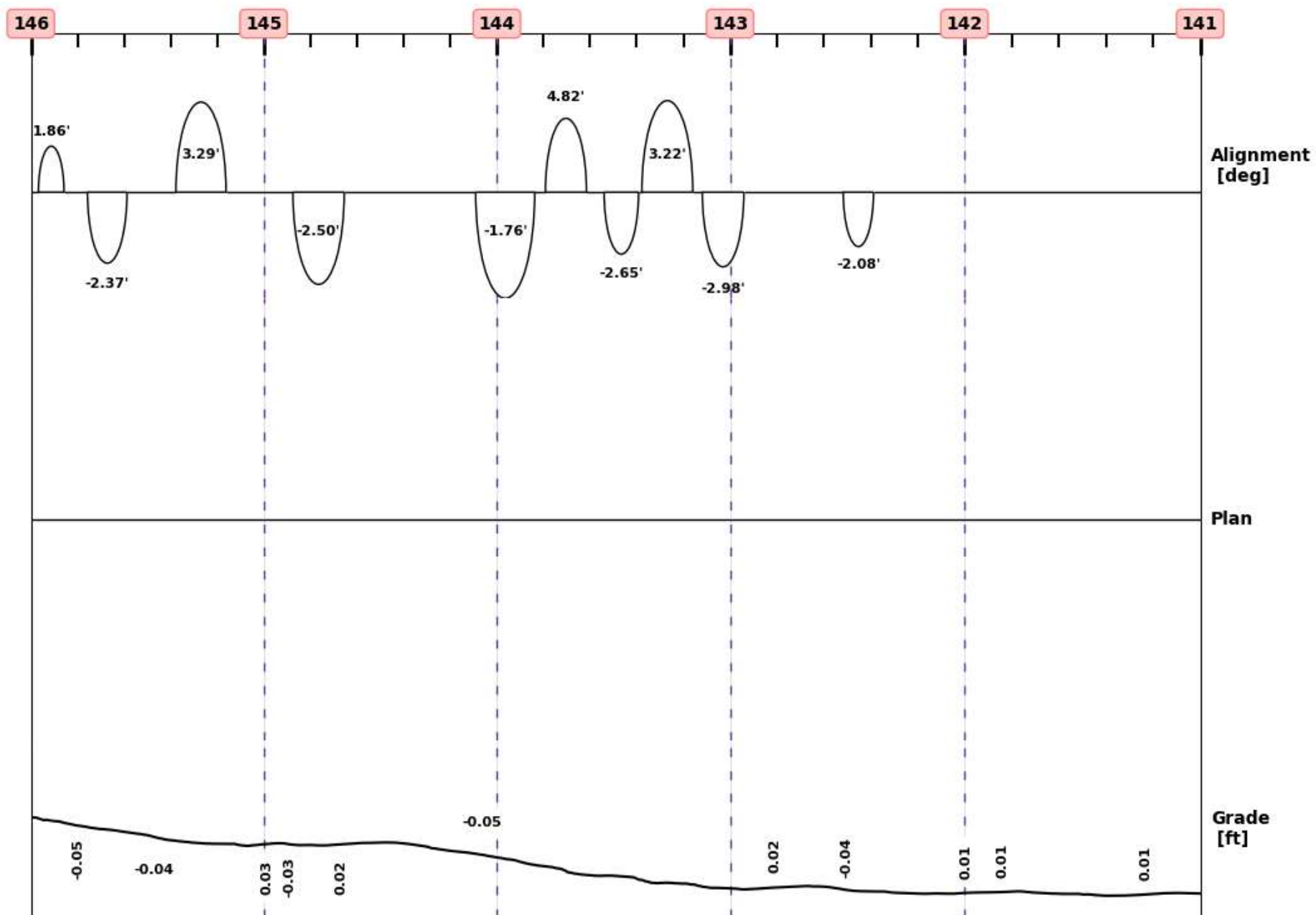


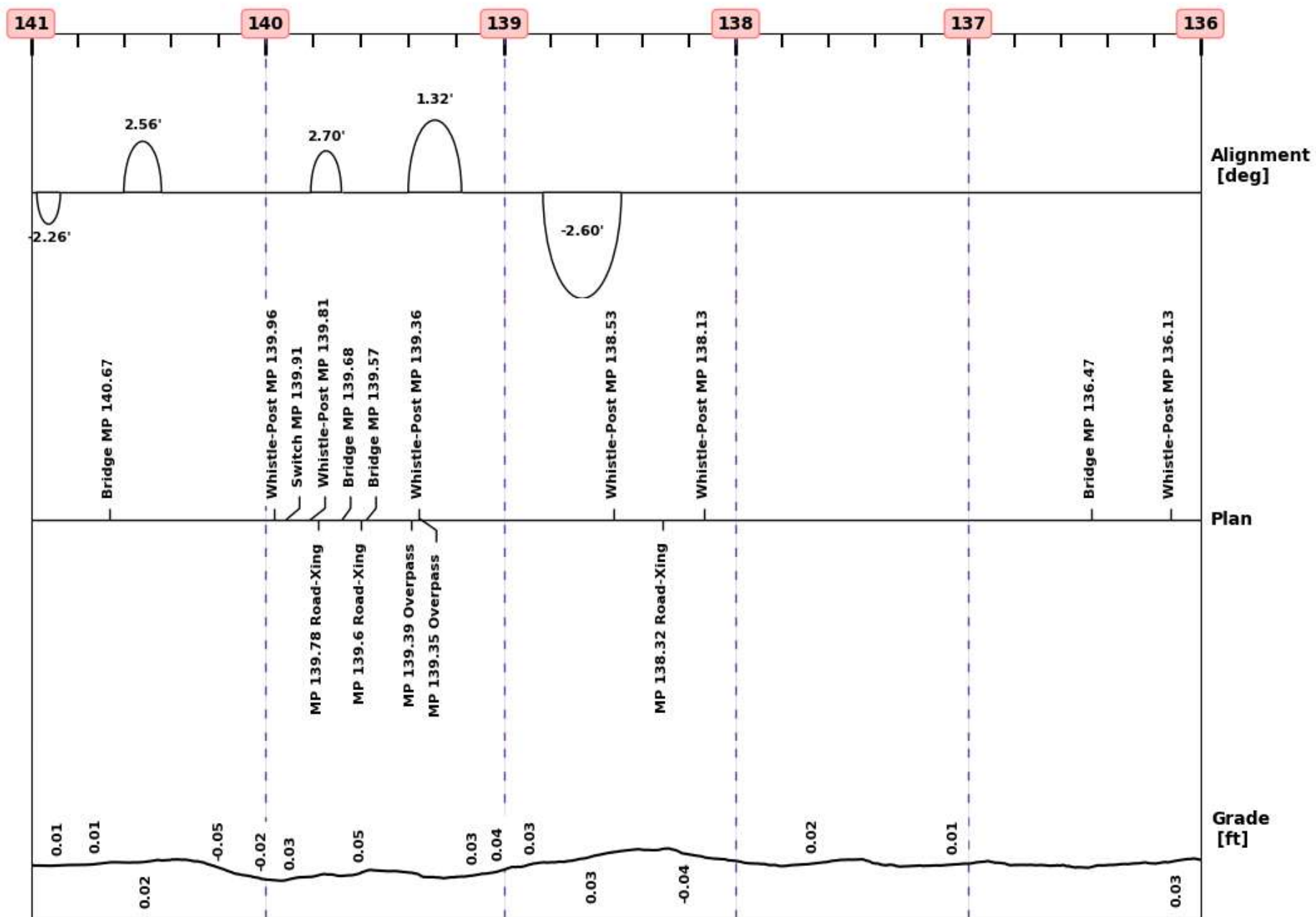


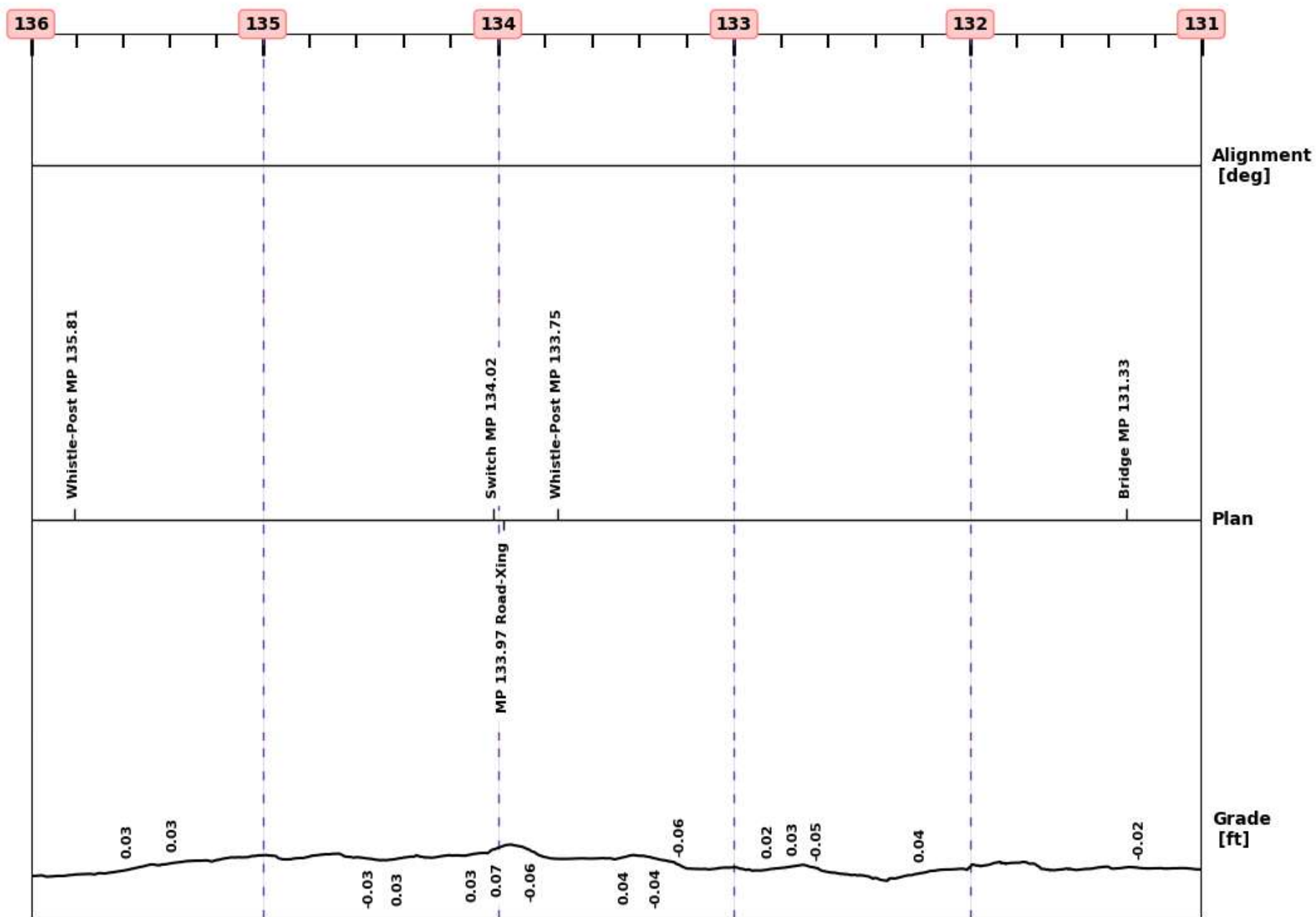


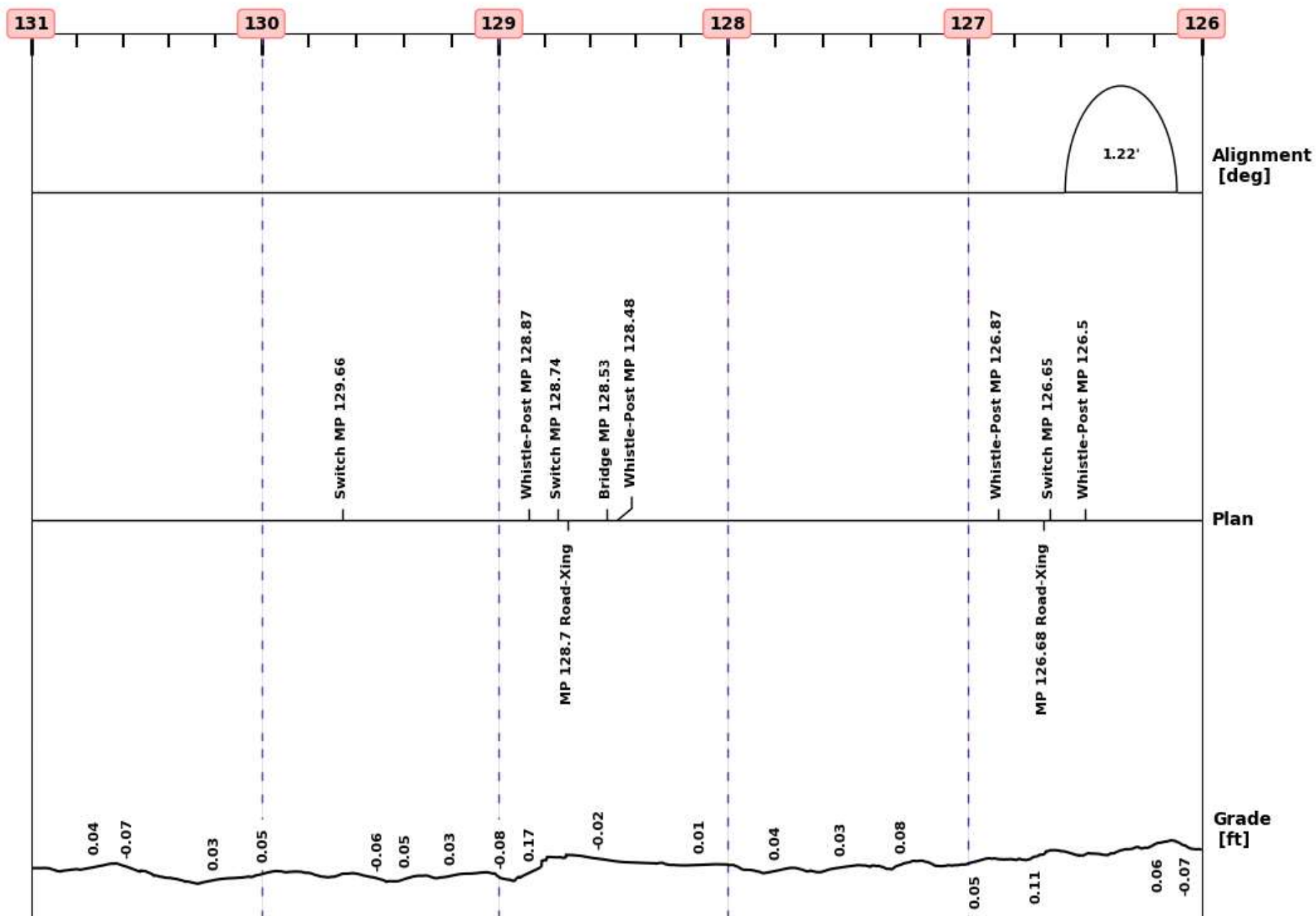


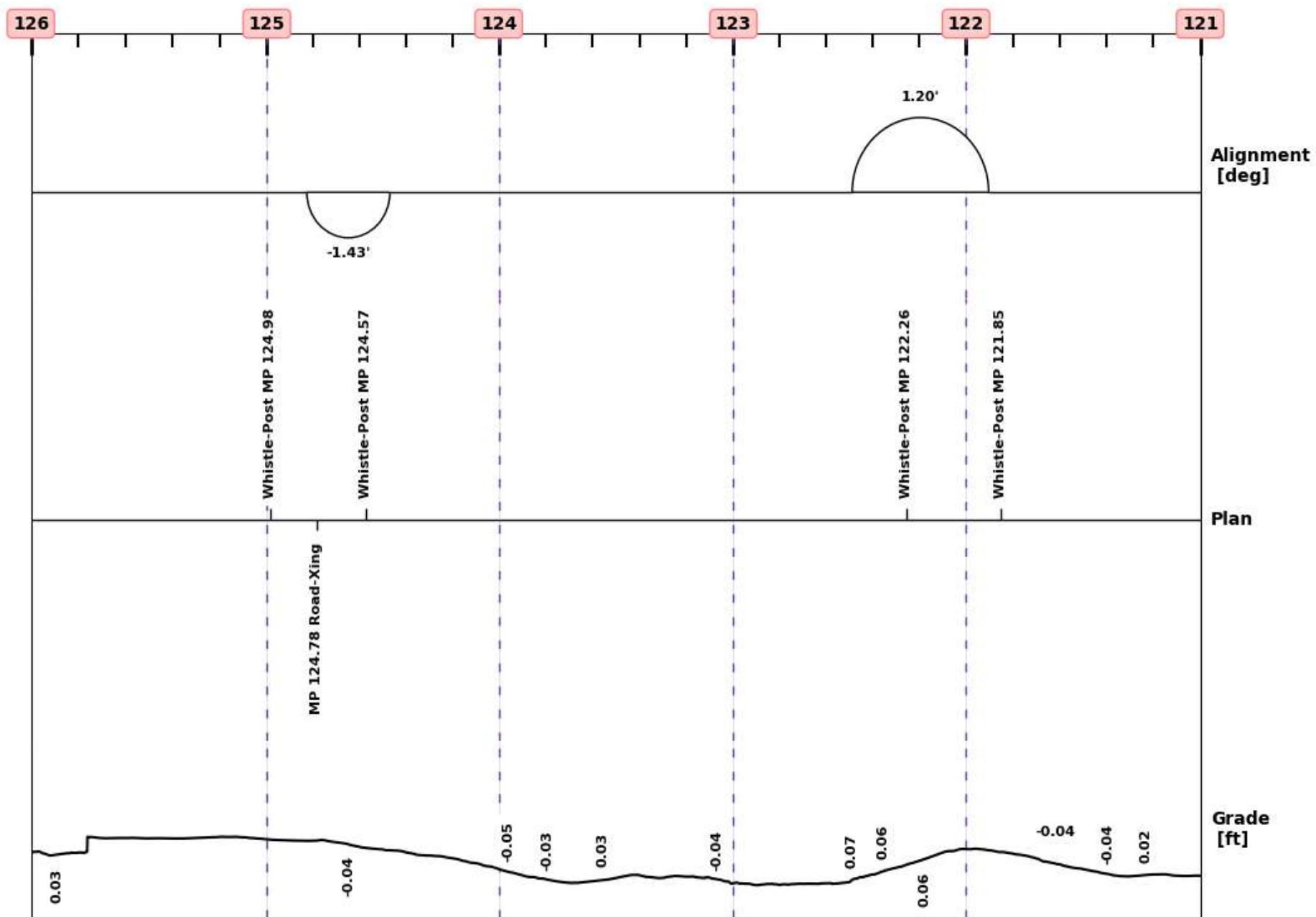


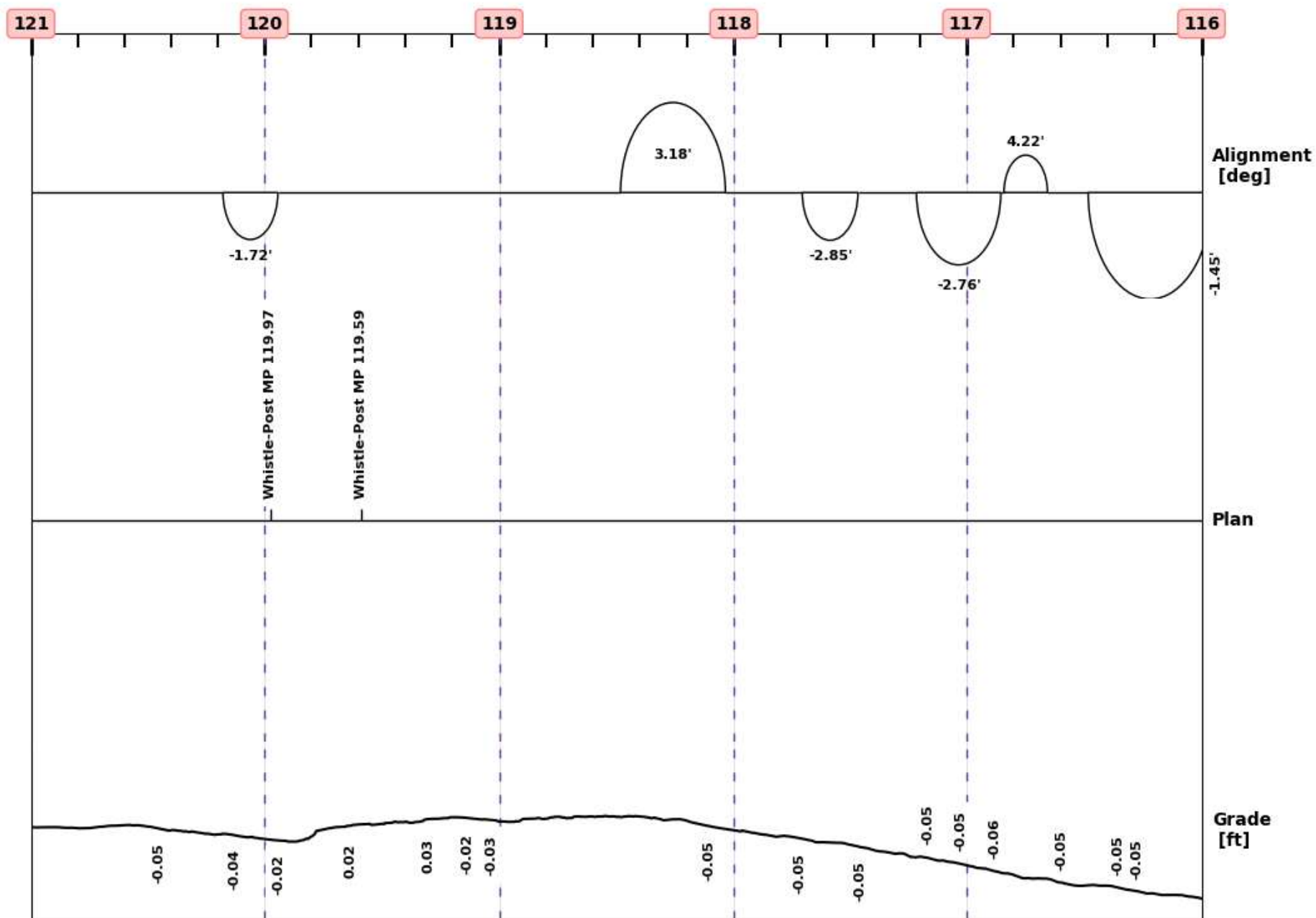


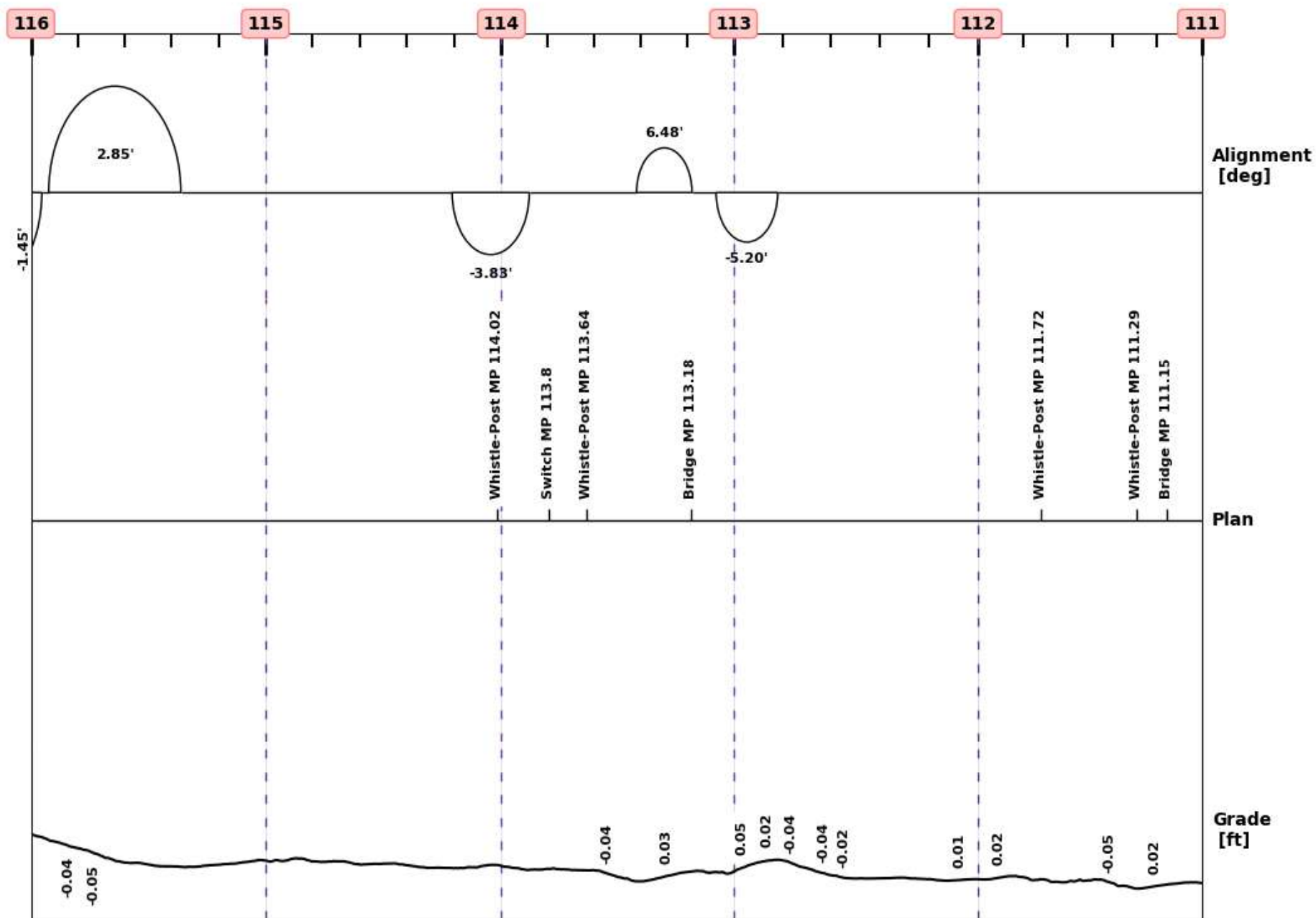


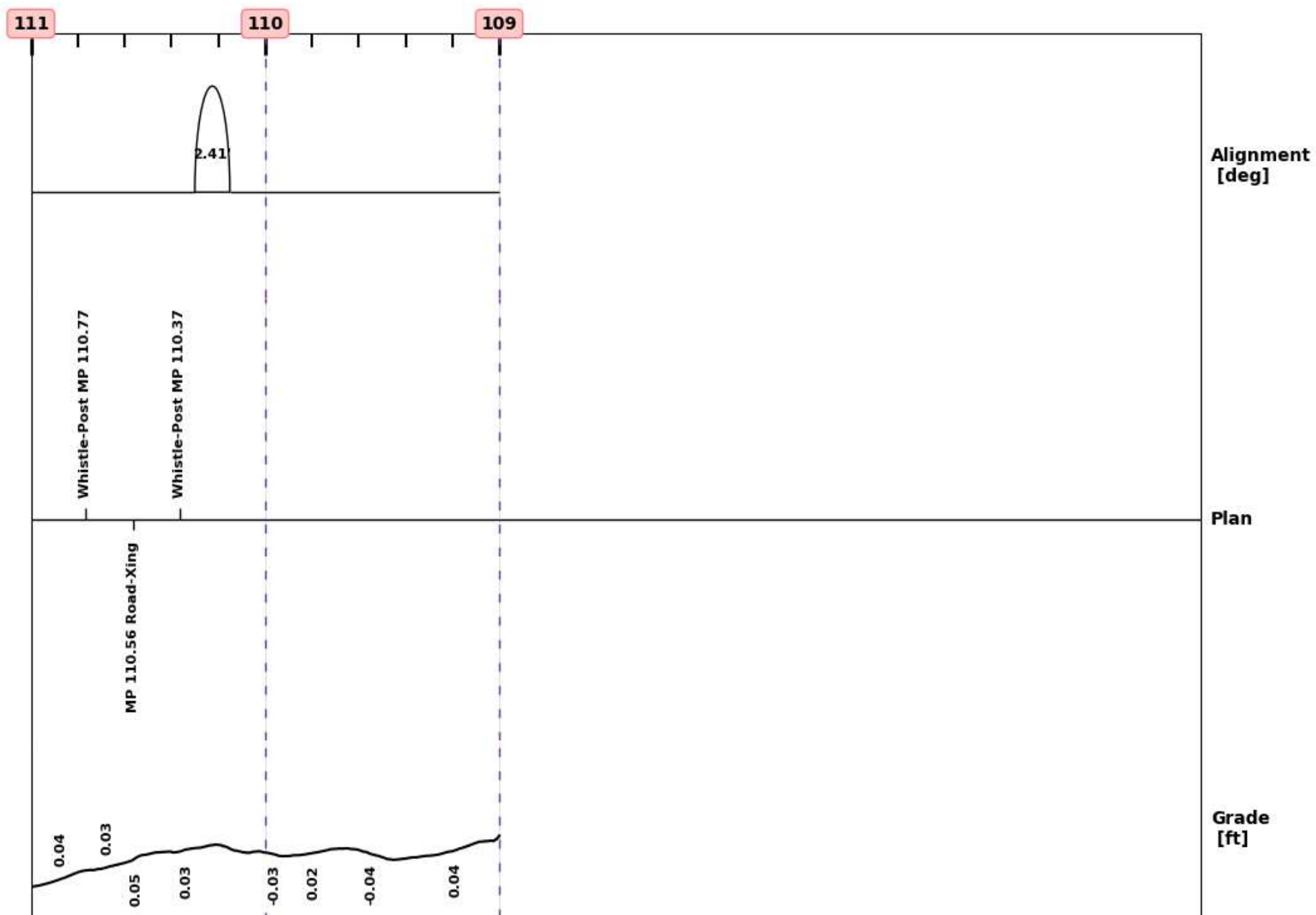


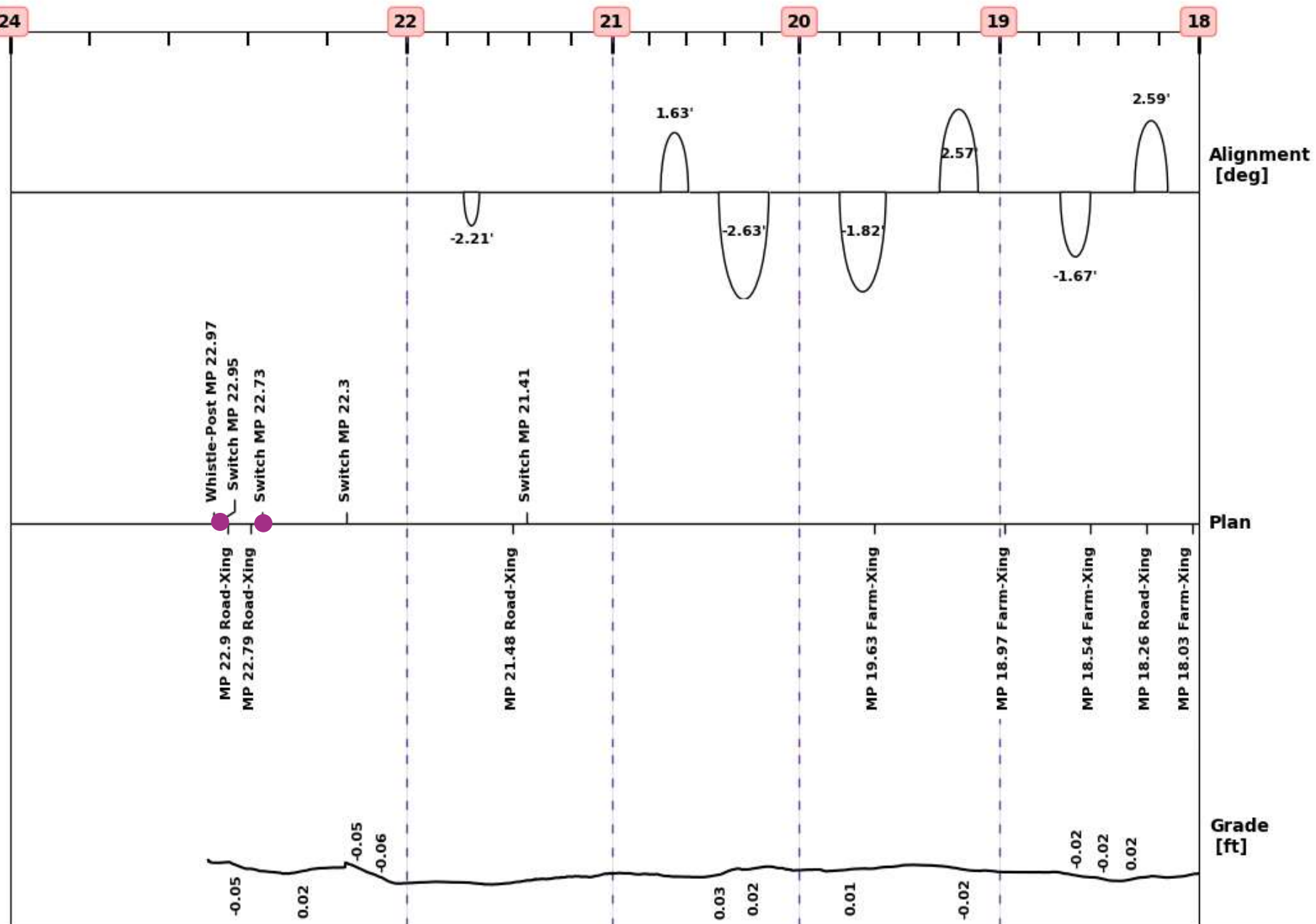








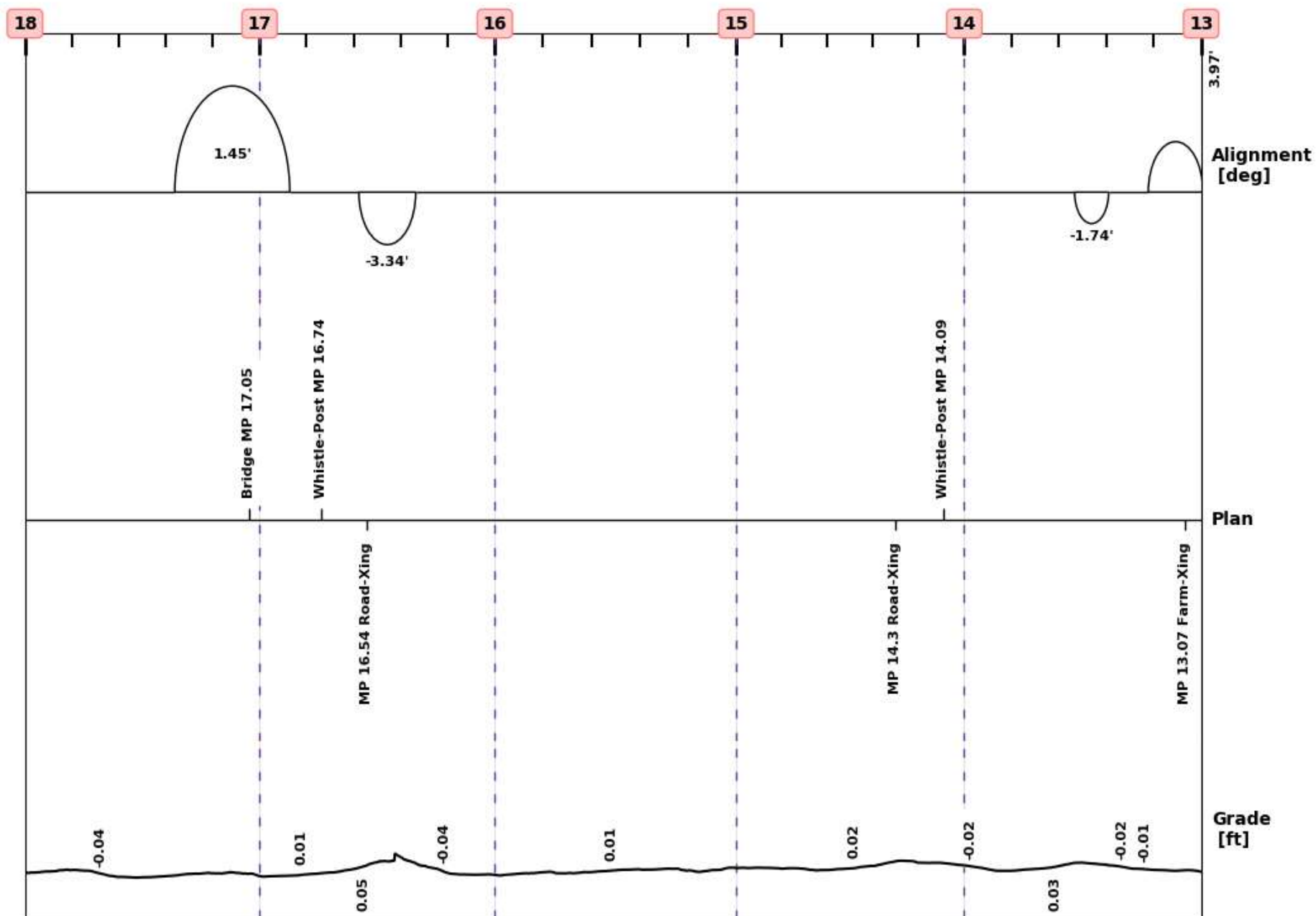




CWR Install

Tie Replacement (Approx. 500 ties/TM)

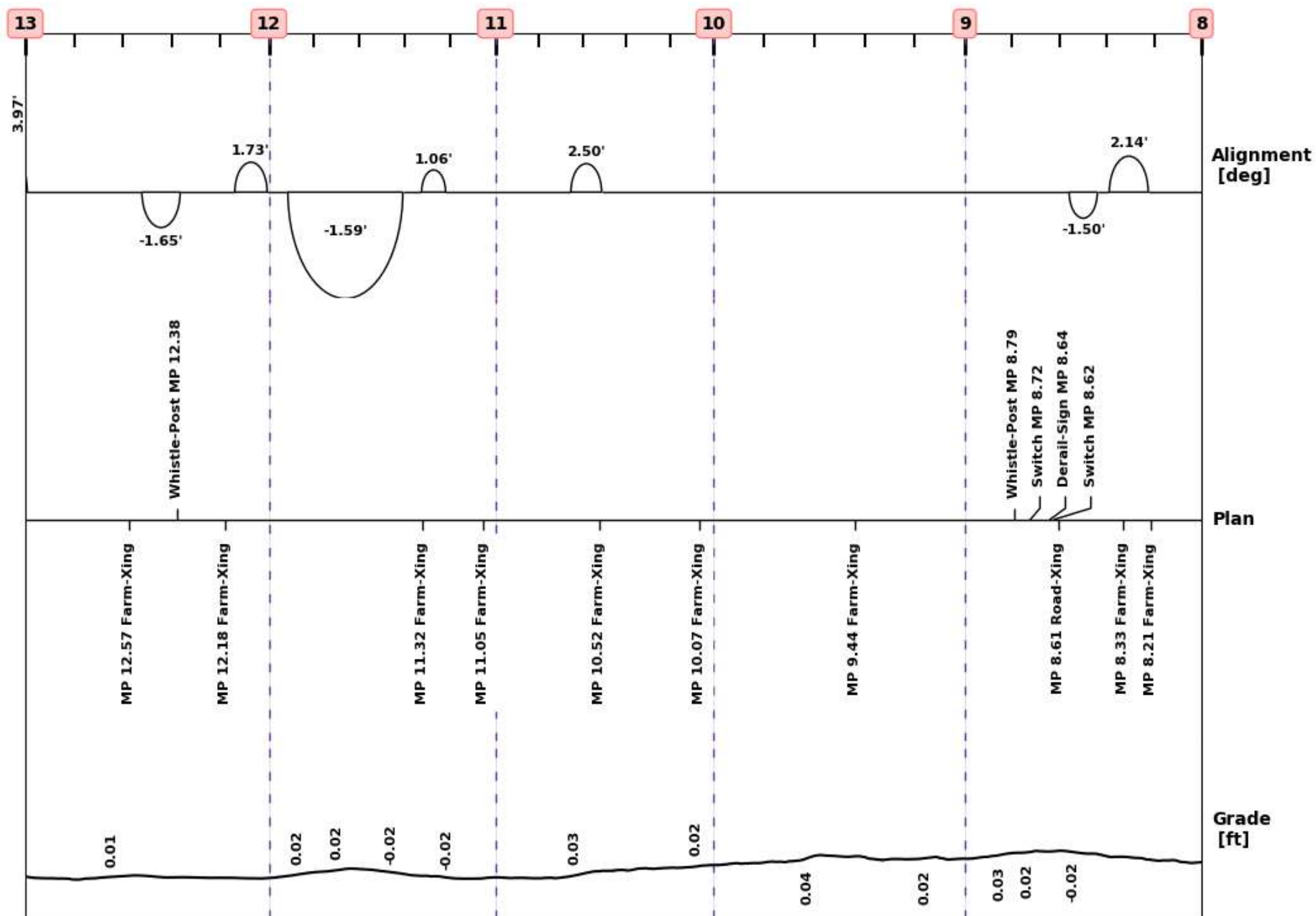
Ballast Placement and Surfacing (Approx. 1200 tons/TM)



CWR Install

Tie Replacement (Approx. 500 ties/TM)

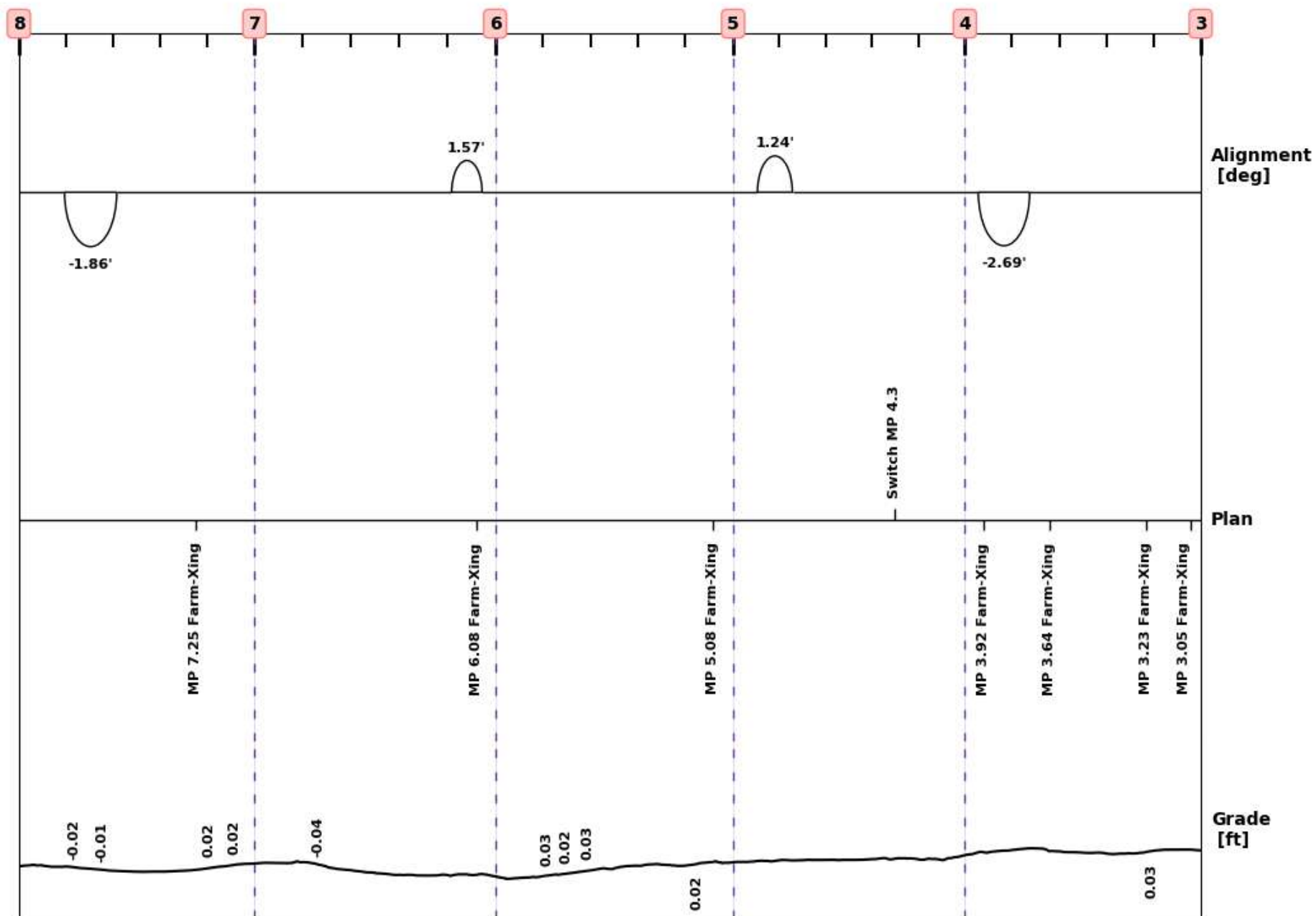
Ballast Placement and Surfacing (Approx. 1200 tons/TM)



CWR Install

Tie Replacement (Approx. 500 ties/TM)

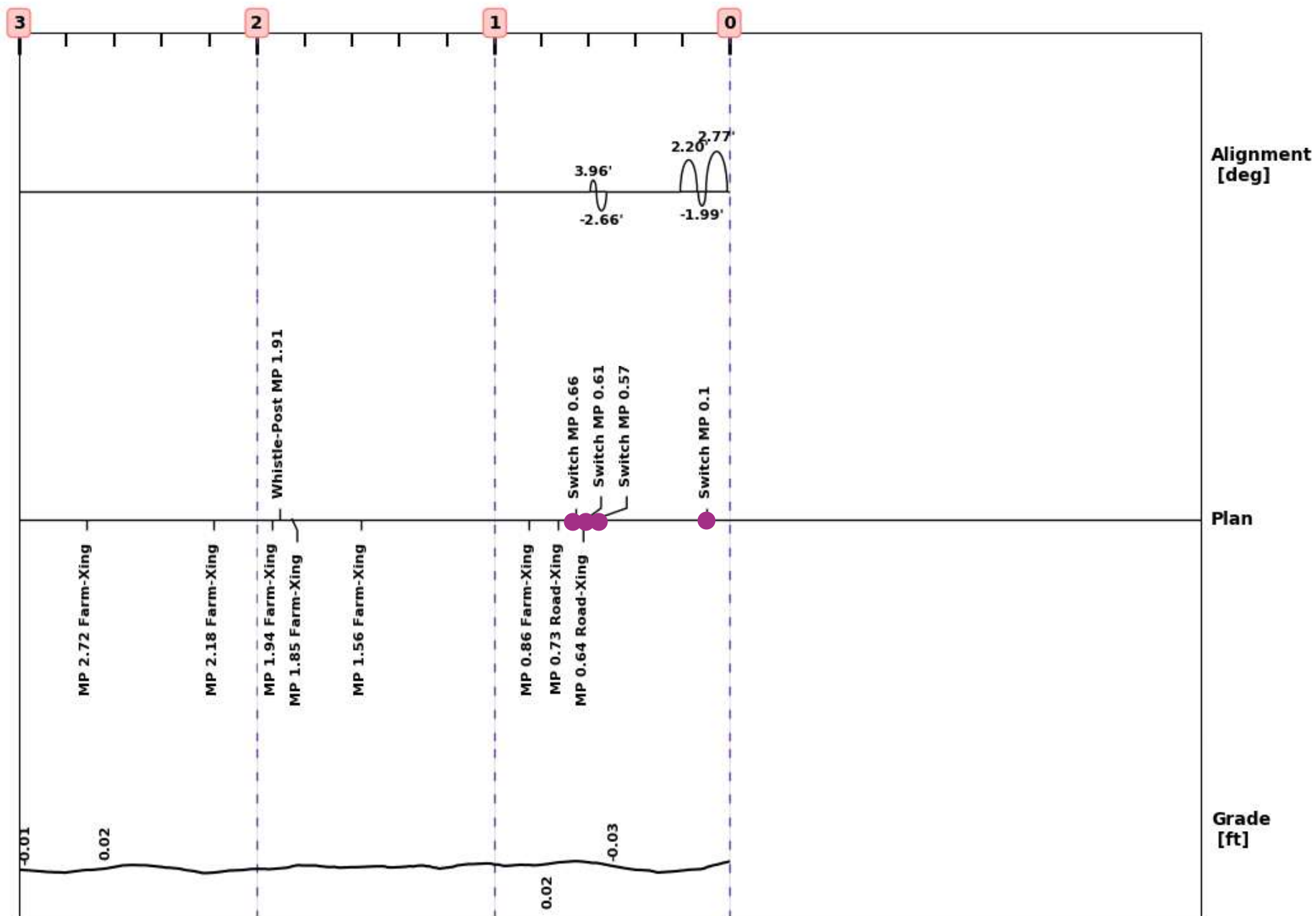
Ballast Placement and Surfacing (Approx. 1200 tons/TM)



CWR Install

Tie Replacement (Approx. 500 ties/TM)

Ballast Placement and Surfacing (Approx. 1200 tons/TM)



CWR Install

Tie Replacement (Approx. 500 ties/TM)

Ballast Placement and Surfacing (Approx. 1200 tons/TM)