

Element	Point Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	2+49.09	457.35	1153.8	0.59%				
		2+50.00	457.36						
		3+00.00	457.65						
		3+50.00	457.94						
		4+00.00	458.24						
		4+50.00	458.53						
		5+00.00	458.82						
		5+50.00	459.11						
		6+00.00	459.41						
		6+50.00	459.70						
		7+00.00	459.99						
		7+50.00	460.29						
		8+00.00	460.58						
		8+50.00	460.87						
		9+00.00	461.16						
		9+50.00	461.46						
		10+00.00	461.75						
		10+50.00	462.04						
		11+00.00	462.33						
		11+50.00	462.63						
	12+00.00	462.92							
	12+50.00	463.21							
	13+00.00	463.51							
	13+50.00	463.80							
	14+00.00	464.09							
	14+02.85	464.11							
Symmetrical Parabola	PVC	14+02.85	464.11	150	0.59%	1.40%	184.18	0.1500	
		14+50.00	464.44						
	PVI	14+77.85	464.55						
		15+00.00	464.93						
		15+50.00	465.56						
		15+52.85	465.60						
Linear	PVT	15+52.85	465.60	83.34	1.40%				
		16+00.00	466.26						
Symmetrical Parabola	PVC	16+36.19	466.76	250	1.40%	7.78%	39.18	1.9900	
		16+50.00	466.98						
		17+00.00	468.18						
		17+50.00	470.01						
		17+61.19	468.51						
		18+00.00	472.48						
		18+50.00	475.59						
		18+86.19	478.24						
Linear	PVT	18+86.19	478.24	37.84	7.78%				
		19+00.00	479.32						
Symmetrical Parabola	PVC	19+24.03	481.18	247	7.78%	-2.91%	23.1	-3.3000	223.27
		19+50.00	483.06						
		20+00.00	485.85						
		20+47.53	490.79						
		20+50.00	487.55						
		21+00.00	488.17						
		21+50.00	487.71						
		21+71.03	487.20						
		21+03.75	488.18						
		21+71.03	487.20						
Linear		22+00.00	486.35	315.75	-2.91%				
		22+50.00	484.90						
		23+00.00	483.44						
		23+50.00	481.98						
		24+00.00	480.53						
		24+50.00	479.07						
Symmetrical Parabola	PVC	24+86.77	478.00	390	-2.91%	3.91%	57.15	3.3300	
		25+00.00	477.63						
		25+50.00	476.51						
		26+00.00	475.82						
		26+50.00	475.58						
		26+81.77	472.32						
		27+00.00	475.77						
		27+50.00	476.40						
		28+00.00	477.46						
		28+50.00	478.96						
		28+76.77	479.95						
		26+53.25	475.58						

Element	Point Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD	
Linear	PVT	28+76.77	479.95	301.33	3.91%					
		29+00.00	480.86							
		29+50.00	482.81							
		30+00.00	484.77							
		30+50.00	486.72							
		31+00.00	488.68							
		31+50.00	490.63							
		PVC	31+78.11							491.73
			31+78.11							491.73
			32+00.00							492.38
Symmetrical Parabola	PVI	32+28.11	493.69	100	3.91%	-4.85%	11.42	-1.0900	173.21	
		32+50.00	492.28							
		32+78.11	491.26							
		32+22.76	492.61							
Linear	PVT	32+78.11	491.26	139.05	-4.85%					
		33+00.00	490.20							
Linear		33+50.00	487.78	74.48	-3.67%					
		34+00.00	485.35							
		PVC	34+17.16							484.52
			34+17.16							484.52
Symmetrical Parabola	PVI	34+50.00	482.99	100	-4.85%	-3.67%	84.57	0.1500		
		34+67.16	482.10							
		35+00.00	480.91							
		PVT	35+17.16							480.27
Linear	PVT	35+17.16	480.27	74.48	-3.67%					
		35+50.00	479.06							
Symmetrical Parabola	PVC	35+91.64	477.54	150	-3.67%	-5.62%	76.64	-0.3700	626.4	
		35+91.64	477.54							
		36+00.00	477.22							
		36+50.00	475.17							
		36+66.64	474.79							
		37+00.00	472.80							
		37+41.64	470.57							
Linear	PVT	37+41.64	470.57	18.36	-5.62%					
		37+50.00	470.10							
Symmetrical Parabola	PVC	37+60.00	469.54	250	-5.62%	-0.88%	52.69	1.4800		
		37+60.00	469.54							
		38+00.00	467.44							
		38+50.00	465.25							
		38+85.00	462.51							
		39+00.00	463.53							
		39+50.00	462.28							
		40+00.00	461.51							
		40+10.00	461.41							
Linear	PVT	40+10.00	461.41	103	-0.88%					
		40+50.00	461.06							
Symmetrical Parabola	PVC	41+00.00	460.62	250	-0.88%	2.06%	85.13	0.9200		
		41+13.00	460.51							
		41+13.00	460.51							
		41+50.00	460.26							
		42+00.00	460.19							
		42+38.00	459.41							
		42+50.00	460.41							
		43+00.00	460.92							
		43+50.00	461.73							
		43+63.00	461.98							
Linear	VLOW	41+87.75	460.18	5.34	2.06%					
	PVT	43+63.00	461.98							
Symmetrical Parabola	PVC	43+68.34	462.09	100	2.06%	0.80%	79.42	-0.1600	907.11	
		43+68.34	462.09							
		44+00.00	462.68							
		PVI	44+18.34							463.12
		44+50.00	463.35							
		44+68.34	463.52							
Linear	PVT	44+68.34	463.52	35.57	0.80%					
		45+00.00	463.78							
Symmetrical Parabola	PVC	45+03.91	463.81	100	0.80%	3.00%	45.42	0.2800		
		45+03.91	463.81							
		45+50.00	464.41							
		PVI	45+53.91							464.21
		46+00.00	465.59							
		46+03.91	465.71							
Linear	PVT	46+03.91	465.71	26.05	3.00%					
		46+29.96	466.49							
Symmetrical Parabola	PVC	46+29.96	466.49	150	3.00%	-0.80%	39.48	-0.7100	359.05	
		46+50.00	467.04							
		47+00.00	467.97							
		PVI	47+04.96							468.74
		47+50.00	468.27							
		PVT	47+79.96							468.14
		47+48.45	468.27							

Element	Point Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	47+79.96	468.14	68.04	-0.80%				
		48+00.00	467.98						
Symmetrical Parabola	PVC	48+48.00	467.60	150	-0.80%	3.16%	37.94	0.7400	
		48+48.00	467.60						
		48+50.00	467.58						
		49+00.00	467.54						
		49+23.00	467.00						
		49+50.00	468.15						
		49+98.00	469.37						
		48+78.28	467.48						
Linear	PVT	49+98.00	469.37	282	3.16%				
		50+00.00	469.43						
		50+50.00	471.01						
		51+00.00	472.58						
		51+50.00	474.16						
		52+00.00	475.74						
Symmetrical Parabola	PVC	52+80.00	478.27	100	3.16%	2.61%	183.44	-0.0700	2029.59
		52+80.00	478.27						
		53+00.00	478.89						
		PVI	53+30.00						
		53+50.00	480.34						
		53+80.00	481.15						
Linear	PVT	53+80.00	481.15	6.37	2.61%				
		53+86.37	481.32						
Symmetrical Parabola	PVC	53+86.37	481.32	250	2.61%	9.63%	35.6	2.1900	
		54+00.00	481.70						
		54+50.00	483.54						
		55+00.00	486.09						
		55+11.37	484.58						
		55+50.00	489.35						
		56+00.00	493.30						
		56+36.37	496.62						
Linear	PVT	56+36.37	496.62	40.63	9.63%				
		56+50.00	497.93						
Symmetrical Parabola	PVC	56+77.00	500.53	150	9.63%	2.90%	22.29	-1.2600	235.35
		56+77.00	500.53						
		57+00.00	502.63						
		57+50.00	506.37						
		57+52.00	507.76						
		58+00.00	508.99						
		58+27.00	509.94						
Linear	PVT	58+27.00	509.94	485.41	2.90%				
		58+50.00	510.60						
		59+00.00	512.05						
		59+50.00	513.51						
		60+00.00	514.96						
		60+50.00	516.41						
		61+00.00	517.86						
		61+50.00	519.31						
		62+00.00	520.76						
		62+50.00	522.22						
		63+00.00	523.67						
		PVC	63+12.42						
Symmetrical Parabola	PVI	63+12.42	524.03	250	2.90%	1.38%	164.28	-0.4800	834.14
		63+50.00	525.08						
		64+00.00	526.34						
		64+37.42	527.66						
		64+50.00	527.45						
		65+00.00	528.40						
Linear	PVT	65+50.00	529.21	70.58	1.38%				
		65+62.42	529.38						
		66+00.00	529.90						
		PVC	66+33.00						
Symmetrical Parabola	PVI	66+33.00	530.36	100	1.38%	2.51%	88.68	0.1400	
		66+50.00	530.61						
		67+00.00	531.54						
		PVT	67+33.00						
Linear	PVT	67+33.00	532.30	21.98	2.51%				
		67+50.00	532.73						
Symmetrical Parabola	PVC	67+54.98	532.85	105	2.51%	4			