EL CAPITAN

Pipe Line Survey

Cross Sections No 1

W187

Preliminary Survey El Capitan
Pipe Line

Keeler

Cross Sections from
Sta 0+00 to 643+00

MICROFILMED
JAN 8 1965

153
150 + 85
15

150 + 85
145 + 34
5 53

Sta "A" Back of 0+00'

599.0			570.6		569.4	569.0	557.1
+25°	Fence ℄		-34	-39	-46	-5°	-169
60°	70°	574.0	31°	38	50°	70°	120°

H.I = 5.3

Party
Keeler
Leach
Simpson

Oct. 1, 1925

Sta.										
4+98					589.9 ~~589.8~~ +15.0 / 41.0 Hyd. Gr.	574.9	570.0 ~~569.9~~ -4.9 / 8.9 rd	570.0 ~~569.9~~ -4.9 / 16.7		
4+00					586.0 +13.0 / 45.0 Hyd. Gr.	573.0	569.9 -3.1 / 12.6 rd.	569.5 -3.5 / 20.4		
3+51.3	594.~~1~~5 +18.0 / 66.0 Hyd. Gr.	578.~~2~~0 +1.5 / 25.8	575.9 ~~576.1~~ -.6 / 19.0 Center Wash	577.9 ~~578.1~~ +1.4 / 14.8	576.~~1~~5	571.~~7~~5 -5.0 / 22.3 rd.	571.~~9~~7 -4.8 / 31.0			
3+00				593.~~8~~7 +15.0 / 75.0 Hyd. Gr.	578.~~8~~7	574.~~3~~2 -4.5 / 18.3 rd.	574.~~3~~2 -4.5 / 26.6			
2+00				593.~~3~~2 +13.0 / 36.0 Hyd. Gr.	580.~~3~~2	573.~~1~~0 -7.2 / 16.5 rd.	573.~~1~~0 -7.2 / 25.5			
1+74.1				594.~~2~~1 +13.0 / 39.5 Hyd. Gr.	581.~~2~~1	579.~~9~~8 -1.3 / 5.4	570.~~5~~4 -10.7 / 20.0 rd.	570.~~5~~4 -10.7 / 29.5	555.~~5~~4 -25.7 / 59.4	
1+00				595.~~7~~6 +16.0 / 49.0 Hyd. Gr.	579.~~7~~6	568.~~2~~1 -11.5 / 26.4 rd.	567.~~9~~8 -11.8 / 36.7 rd	565.~~7~~0 -14.6 / 48.8	555.~~5~~4 -24.2 / 77.0 River	
0+00		600.0 +28.9 / 72.0 Hyd. Gr.	589.4 +18.3 / 52.0	574.5 +3.4 / 5.0	571.1	569.2 -1.9 / 26.4 road	568.4 -2.7 / 49.1	568.1 -3.0 / 67.2	556.7 -14.4 / 118.0 River	

H.I = 5.0'

Party
Keeler
Leach
Simpson

Oct. 2, 1925

Sta.						
11+98.1		+17.0 ~~593.8~~ 593.6 55.5 Hyd. Gr.	576.~~8~~6	-8.0 ~~568.8~~ 568.6 11.9 rd.	-8.3 ~~568.5~~ 568.3 18.9	
11+00		+22.0 593.9 593.8 78.0 Hyd. Gr.	571.~~9~~8	-3.8 ~~568.1~~ 568.0 9.7 rd.	-3.8 ~~568.1~~ 568.0 19.5	
9+99.5	△	+20.0 593.~~5~~0 46.9 Hyd. Gr.	573.~~5~~0	-5.4 567.~~8~~6 11.5 rd.	-5.1 567.9 ~~568.2~~ 19.9	o/c. to here
9+00		+22.0 593.5 ~~592.7~~ 70.0 Hyd. Gr.	571.~~1~~5	-2.7 568.8 ~~569.0~~ 8.7 rd.	-2.9 568.~~8~~6 16.3	
7+99.8	△	+23.0 593.~~6~~7 73.9 Hyd. Gr.	570.~~6~~7	0.0 570.~~6~~7 0.0 x Edge of rd.	0.0 570.~~6~~7 10.0	-16.5 554.~~1~~2 54.6 River
7+10		+19.0 593.8 ~~594.0~~ 37.5 Hyd. Gr.	574.8 ~~575.6~~	-6.2 568.6 ~~569.4~~ 14.2 rd.	-6.2 568.6 ~~569.4~~ 21.9	-22.2 552.6 ~~553.4~~ 65.0
6+86.1		+16.0 594.~~3~~5 32.2 Hyd. Gr.	578.~~3~~5	-8.9 569.~~4~~6 17.6 rd.	-9.2 569.~~1~~3 23.8	-25.2 553.~~1~~3 60.0
6+00.3		+14.0 594.~~2~~3 50.0 Hyd. Gr.	580.~~2~~3	-7.2 573.~~0~~1 14.4 rd	-7.4 572.~~8~~9 21.5	

Sta.								
18+00		593.0	569.0	567.4	565.1	563.8		
		+24.0		-1.6	-3.9	-5.2		
		59.0		6.4	12.0	22.0		
		Hyd. Gr.		Bank	rd.			
16+98.3	Δ	592.9	568.9	563.8	563.6			
		+24.0		-5.1	-5.3			
		63.0		10.0	18.9			
		Hyd. Gr.						
16+00			565.4	563.4	563.6	553.6		
				-2.0	-1.8	-11.8		
				16.0	24.8	66.0		
				rd.		Creek bed		
15+00		592.2	569.2	566.0	565.7	566.3	551.7	
		+23.0		-3.2	-3.5	-3.1	-17.5	
		99.0		13.0	21.0	28.5	79.5	
		Hyd. Gr.		rd		Bank	Creek bed	
14+48		594.2	570.2	564.7	564.2	553.2		
		+24.0		-5.8	-6.6	-17.0		
		76.0		13.0	23.0	52.0		
		Hyd. Gr.		rd.				
14+00		592.6	580.6	570.6	565.5	565.6	551.8	
		+13.0		-9.0	-14.1	-14.0	-27.8	
		40.0		22.0	26.0	37.0	72.0	
		Hyd. Gr.		Bank	rd.		Creek bed	
13+73	Δ	593.4	578.4	573.5	567.0	566.7	564.9	
		+15.0		-4.9	-11.4	-12.0	-13.5	
		40.0		11.2	22.8	29.8	62.0	
		Hyd. Gr.		Bank	rd		Creek bed	
13+00		593.5	578.5	574.8	568.8	568.9	569.9	
		+15.0		-3.7	-9.7	-9.6		
		38.0		8.8	17.0	24.0		
		Hyd. Gr.		Bank	rd.			

Party
Keeler
Leach
Simpson

Oct. 3, 1925
Cool and cloudy

Sta.											
23+00				590.8	584.8	581.5	574.5	574.5	574.6		
				+6.0		-3.3	-10.3	-10.3	-10.2		
				14.0		8.0	13.7	21.0	31.0		
				Hyd. Gr.			rd.				
22+00			571.9	573.7	569.9	570.1	569.9	569.8	569.6	561.9	
		+21.0	+3.8		+0.2	-0.0	-0.1	-6.3	-8.0		
		57.5	5.0		6.0	14.0	16.0	38.5	50.0		
		Hyd. Gr.	top bank		rd.		top bank				
21+00				590.5	573.5	571.3	568.0	568.0	566.0	563.8	
			+17.0		-2.2	-5.5	-5.5	-7.5	-9.7		
			46.9		7.5	12.5	20.0	32.0	50.0		
			Hyd. Gr.		rd		Top bank				
20+41.8	P.O.T.			591.0	574.0	567.8	567.5				
			+17.0		-6.2	-6.5					
			53.0		19.0	28.8					
			Hyd. Gr.		rd						
20+00				591.0	576.0	568.3	568.2				
			+15.0		-7.8	-7.9					
			77.0		30.9	40.5					
			Hyd. Gr.		rd.						
19+51.3	△			592.4	576.4	567.5	567.8				
			+16.0		-8.9	-8.6					
			111.0		35.0	43.5					
			Hyd. Gr.		rd.						
19+00		592.3	571.6	565.9	566.5	564.5	564.5				
		+26.0	+5.4	-0.4		-1.5	-1.5				
		91.0	20.0	12.0		18.8	27.9				
		Hyd. Gr.	bank	center		rd.					
18+29.9	△			592.7	568.7	567.8	563.9	563.8			
			+24.0		-0.9	-4.8	-4.9				
			65.0		3.8	7.0	16.0				
			Hyd. Gr.		base						

Party
Keeler ⊼
Leach Oct. 5, 1925
Simpson Cool and rainy

Station	Elev.	Offset / Elev. / Note
28+00 △	599.9 (~~600.0~~)	+19.0 / 40.6 Hyd. Gr.
	580.9 (~~581.0~~)	-3.7 / 8.0 Bank
	577.2 (~~577.3~~)	-10.7 / 13.0 rd
	570.2 (~~570.3~~)	-10.4 / 24.0
	570.5 (~~570.6~~)	-10.7 / 31.0 Top of slope
	570.2 (~~570.3~~)	-26.1 / 146.0
	559.8	-37.3 / 81.5 Toe of slope
	543.7 (~~543.6~~)	
27+50	592.9 (~~592.6~~)	-8.6 / 23.5 Bank
	584.8 (~~584.7~~)	-19.3 / 31.0 rd
	573.3 (~~573.2~~)	-19.2 / 40.0 Top of slope
	573.4 (~~573.3~~)	-47.3 / 90.5
	545.3 (~~545.2~~)	-50.8 / 109.9
	541.8 (~~542.1~~)	-52.8 / 148.2 Center of stream
	539.8 (~~540.1~~)	
27+25.6	597.3	-11.7 / 21.0 Edge of bank
	585.6 (~~586.6~~)	-16.7 / 30.0 rd
	580.6 (~~581.0~~)	-16.8 / 39.0
	580.5	-16.5 / 42.0 Bank
	580.8 (~~581.2~~)	
26+91	599.5	-14.3 / 25.0 Bank
	585.2 (~~585.0~~)	-21.6 / 30.0 rd
	577.9	-21.6 / 38.
	577.9	-21.7 / 40. Top of slope
	577.8	-53.1 / 90.0 Toe of slope
	546.4	-56.0 / 110
	543.3	-58.8 / 145 Center of stream
	540.5	-60.8 / 147.0
	538.5	
26+00	599.9	-9.0 / 21.0 Bank
	590.9	-15.0 / 26.0 rd.
	584.9	-14.7 / 35.5
	585.2	-14.3 / 41.6 Top of slope
	585.4	-61.1 / 121.9 Center of stream
	538.2	
25+45	599.7 (~~599.9~~)	-4.5 / 10.5 Bank
	595.2 (~~595.3~~)	-9.0 / 16.5 rd
	590.7	-9.4 / 25.1
	590.3	-9.0 / 31.1 Top of slope
	590.7	-31.4 / 66.1
	568.3	-38.2 / 82.9 Toe of slope
	561.5	-56.3 / 101.9 Center of stream
	543.4	-59.7 / 136.4
	540.0	
24+25 △	593.5	+5.0 / 11.8 Hyd. Gr.
	588.5	-2.5 / 5.5 top of bank
	585.8 (~~586.8~~)	-6.3 / 9.5 rd.
	582.2	-6.1 / 16.5
	582.2	-6.6 / 21.1 Top of slope
	581.7	-47.6 / 91.0 Toe of slope
	540.7	-48.6 / 106.0 Center of stream
	539.9	
23+98	594.2	+5.0 / 14.5 Hyd. Gr.
	589.2	-3.7 / 10.0 bank
	585.4	-8.5 / 13.9 rd
	580.7	-8.0 / 21.0
	581.2	-8.0 / 24.0 top of slope
	581.2	-18.0 / 85
	571.2	-48.0 / 97.0 Center of stream
	541.2	

Party
Hector
Leach & Level
Simpson Rod
Bill - Notes
Oct. 6, 1925

36+00				598.3	563.3	553.3	550.3	550.2	542.5	541.4	537.3						
				+45°	+16°		-2?	-2?	-18?	-11?	-15?						
				86°	27°		16°	23°	45°	61°	79°						
							Edge Rd.	Rd. Side	Tow Slope								
35+00					589.7	556.7	551.3	551.1	540.3								
					+33°		-5?	-4	-16?								
					67°		25°	32°	56°								
							Edge Rd.	Roadside	Tow Slope								
34+00					599.3	561.3	555.3	555.6	549.3								
					+38°		-7?	-8?	-12°								
					75°		38°	46°	67°								
							Edge Rd.	Roadside	Bank								
(32+95)						568.7											
33+00	P.O.T.				599.5	568.5	555.5	555.7	555.1								
					+41°		-13°	-12?	-17?								
					91°		41°	48°	56°								
							Edge Road	Rd.	Bank								
31+95		599.5	590.4	577.4	578.6	568.5	564.3	561.3	561.3	562.5							
		+31°	+21°	+8°	+10!		-4?	-7?	-7?	-6°							
		205°	164°	81°	69°		24°	31°	34°	48°							
							Top Bank	Rd.	Rd.	Top Bank							
31+00					598.9	565.9	560.3	558.5	558.4	552.9	548.3	539.3					
					+37°		-5	-7?	-15	-13°	-17°	-26°					
					82°		18?	24.5	33°	67°	83°	132°					
							T.B.	Rd.	Rd.			Edge of River Bed					
30+00			600.0		574.0	566.0	559.9	559.7	547.3	542.7	539.0						
			+34°		+8°		-6?	-6?	-18?	-23?	-26°						
			90?		31?		28.0	38.0	110.0	121.0	194.0						
							Rd	Top of slope	Toe of slope	Top of slope	stream water						
29+63	P.O.T.		599.1		563.6	566.1	560.2	560.3	549.1	541.9	543.2	538.4					
			+33°		+17.5		-5.9	-5.6	-16.7	-24?	-23?	-27.7					
			106		51		21.0	28.0	94.0	116.0	143.0	185.0					
							Rd.	Top of slope	Toe of slope		Bank	stream water					
29+00					600.3	569.1	567.8	563.3	563.3	563.4	559.0	553.6	542.4				
					+31.0		-1.3	-5.8	-5.8	-5.7	-10.1	-13.5	-26.1				
					74.0		4.2	10.0	18.7	22.7	34.7	56.7	95.7				
								Rd		Bank	Top of slope		Top of slope				

43+55					+39 / 58°	596.3	557.3	-19 / 25° Edge Rd.	-19 / 32° Edge Rd.	-26 / 57° River Bot.
43+00					+43 / 95°	597.1	554.1	-16 / 16° Edge Rd.	-16 / 24° Edge Rd.	-22 / 39° River Bot.
42+71					+47 / 75°	597.1	550.1	-13 / 18° Edge Rd.	-13 / 25° Edge Rd.	-18 / 35° River Bot.
42+35					+49 / 64°	596.9	547.9	-11 / 11° Edge Road	-11 / 18° Edge Rd.	-16 / 28° River Bot.
42+00					+46 / 59	597.0	551.0	-12 / 11°	-11 / 18°	-18 / 29°
41+00					+46.0 / 33°	597.1	551.1	-8.3 / 10° Edge Rd	-8 / 17° Edge Rd.	-19 / 26° River Bottom
40+58					+56 / 38°	609.0	553.0	-8 / 7° Edge Road	-8 / 14° Edge Rd.	
40+00					+52.0 / 53°	598.6	546.6	-0.4 / 3° Edge Road	-0.6 / 9° Edge Rd	-0.9 / 13 Top Bank
38+95					+32 / 41°	598.2	566.2	-17.9 / 16 Edge Road	-17.7 / 21 Edge Rd.	-18.2 / 25 Top Bank
38+00					+38 / 53°	598.3	560.3	-13 / 22° Edge Rd.	-13 / 29° Rd. side	-19 / 50° Tow Slope	-27 / 113° In Water
37+00			+36 / 128°	+19 / 77°	+9 / 36°	598.3 / 582.2 / 572.2	562.3	-14 / 9° Bank	-14 / 32° Edge Rd.	-13 / 39° Rd. side

Keeler - Inst.
Leach - H. Level
Simpson - Rod
Bisby. - Notes - Axe
Oct. 7-25

51+00				595.4 5	547.7	543.8 5	537.4 4	537.4 1
				+52°	+4°		-6	-6.4
				162°	40°		41°	49°
							Edge Rd.	Edge Rd.
50+45	595.5 2	555.7 6	557.1	553.0 5		543.8 2	539.3	538.9
	+52°	+12.4	+9°	+10.3			-4.2	-4.3
	160°	53°	45°	37°			51°	59°
		Ditch Bank	Center Ditch	Ditch Bank			Edge Rd.	Edge Rd.
50+00				596.9		544.9	537.7 5	537.7 5
				+52°			-7.4	-7.4
				161°			39°	46°
							Edge Rd.	Edge Rd.
48+90				596.3 3		548.6 3	538.7 6	527.2 0 527.7
				+48°			-11.7	-21.3 -20°
				126°			40°	50° 58°
							Top Bank	Edge Rd. Edge Rd.
48+00				596.6 3		538.5 3	534.7 3	534.5 1
				+56°			-4°	-4°
				76°			18°	25°
							Edge Rd.	Edge Rd.
47+00				596.1 1	544.7 6	536.6 6	536.7 4	536.0 0 533.0 532.8
				+60°	+8°		-0.2	-0.6 -3°
				103°	10°		30	11° 30°
					Top Bank		Edge Rd.	Edge Rd. River Bed
46+00				596.7 0		549.4 0	536.5 1	536.5 1 533.7 3
				+47°			-12°	-12° -13.7
				98°			30°	37° 52°
							Edge Rd.	Edge Rd. River Bed
45+00				597.2 6		551.4 2	537.0 4	538.7 2
				+46°			-13°	-13°
				94°			28°	36°
							Edge Rd.	Edge Rd.
44+00				596.7 4		556.7 4	536.7 5	536.7
				+41°			-19°	-20°
				89			40°	47°
							Edge Rd.	Edge Rd.

Keeler - ⊼
Leach - H. Level
Simpson - Rod
Bisby - Notes - Axe
Oct. 9 - 1925 - Foggy
-9 523.6
55° - River Bed

58+84		10° 50 Side Slope			+18° 25°	551.9 5	532.7 ~~533.1~~	-1° 8° Edge Rd	530.9 ~~531.3~~ ~~532.7~~ -1° 15° Edge Rd	~~531.2~~ 530.8 -2° 22 Top Bank	~~531.1~~ 530.7
58+00				+34° 146°	~~570.0~~ 569.6 +17° 94°	~~553.0~~ 552.6	535.9 5	-3° 14° Edge Rd.	~~532.1~~ 2 -3° 21° Edge Rd.	~~532.1~~ 2 -12° 74° Rivers Edge	~~522.7~~ 522.8
57+00		27° Slope from Here		+24° 57° Top Bank	~~559.5~~ 3 +0° 24° Tow Slope	~~535.9~~ 7	535.4 2	-14° 5° Edge Rd.	~~524.0~~ 533.8 -16° 13° Edge Rd	~~533.8~~ 2 -6° 47° Top Bank	~~529.1~~ 528.9 -11° 76° River Bot.	~~524.1~~ 523.9
(56+00) 56+02		22° Slope from Here		+19° 40° Top Bank	~~554.1~~ 2 +0° 9° Tow Slope	~~535.4~~ 5	535.0 ~~535.5~~	-0° 10° Edge Rd.	~~535.5~~ 0 -0° 18° Edge Rd.	~~535.1~~ 534.8 -0° 30° Top Bank	~~534.9~~ 534.6 -3° 40° Tow Slope	~~531.9~~ 531.6 -10° 84° River Bot.	~~525.0~~ 524.7
+16		~~Even Side Slope 12¼°~~					539.8	~~-17° 13° Edge Rd.~~	~~538.1 -14° 19° Edge Rd.~~	~~538.4 -2° 47° Top Bank~~	~~531.1 -13° 72° River Bot.~~	~~525.9~~
55+00		+48° 274°	+31° 234°	+27° 193°	+29° 184°	+20° 127°	+14° 110°	537.7 5	-0° 10° Edge Rd.	~~537.1~~ 2 -0° 17° Edge Rd.	~~537.1~~ 2	
+80		15° Side Slope									
54+00				+50° 168°	+0° 5° Tow Slope	+0° 5	535.8 ~~536.2~~	0° 5° Edge Rd.	~~536.2~~ 535.8 -0° 13° Edge Rd.	~~536.5~~ 535.6 -0° 23° Shoulder	~~535.5~~ 1
53+00				+58° 163°	~~594.7~~ 0 -0° 15° Tow Slope	~~536.2~~ 535.9	536.0	0° 7° Edge Rd.	~~536.5~~ 0 +0° 14° Edge Rd.	~~536.5~~ 2 +0° 25° Top Bank	~~536.5~~ 5
52+00				+58 162°	~~594.7~~ 4 +2° 30° Tow Slope	~~539.2~~ 538.9	536.7 4	+0° 13° Edge Rd.	~~536.7~~ 6 +0° 20° Edge Rd.	~~537.1~~ 536.8 +0° 36° Top Bank	~~535.5~~ 2

X

67+00	Side Slope of 7°00				548.9	-3° 10° Bank	-17° 30° Road	-16° 37° Road	-17.4 95° Bank	-27.5 121° River Bed	
66+00	5°10 Slope from Here		+15° 127°	-4° 27°	552.5	-6° 18° Bank	-21° 35° Road	-21.3 42° Road	-23° 66°	-29° 88° R. Bottom	
65+50				+18° 150°	549.6	-2° 13° Bank	-18° 32° Road	-18° 37° Road			
65+00	Side Slope of 8°30				545.9	-11° 36° Bank	-14° 40° Road	-14° 47° Road	-21.4 64° Low Slope		
64+00	Side Slope of 14°30				533.7	-2° 37° Road	-2.4 44° Road	-10.5 73° River Bed			
63+00	13°10 Slope from Here		+33.4 159°	+20° 122°	533.8	-2.4 23° Road	-2.4 33° Road	-3° 47° Bank	-11° 78° River		
62+00				+45° 161°	539.0	-7° 30° Rd.	-7° 37° Road	-16° 62° River			
61+00			+35° 118°	+9° 45°	541.85	-6.4 33° Bank	-13.6 39° Edge Rd	-13.7 47° Edge Rd	-19.7 57° River		
60+00		+38° 145°	+21° 100°	+17.9 76°	+11.3 64°	545.61	-4° 10° Bank	-21.6 20° Edge Rd.	-21.8 26° Edge Rd.	-26.2 41° River Bed	

Checked to here P.E.R.

Keeler - π
Leach - H. Level
Simpson - Rod
Bisby - Notes - Axe
Oct. 10 - 1925

Station					Center						
73+00			588.5 [589.1] +44.3 194.0	545.1 +0.9 16.0	544.2	543.5 [544.1] -0.7 15.0 Road	543.6 [543.0] -1.2 24.0 Road	527.7 [528.3] -16.5 227.0 Bank	518.4 [519.0] -25.8 258.0 Toe Slope		
72+00			593.1 +45.0 222.0	562.5 +14.2 100.0	548.1 [548.3]	546.1 -2.0 20.0 Road	545.7 -2.4 28.0 Road	528.4 -19.7 214.0 Bank	521.0 27.1 224.0 River Bot.		
70+98				578.1 +37.9 150.0	550.2	544.8 -5.4 14.0 Road	544.2 -6.0 22.0 Road				
70+00				583.9 +33.8 200.0	550.1	544.5 [547.0] -3.6 17.0 Bank	542.5 [543.0] -7.6 27.0 Road	542.5 [543.0] -7.6 35.0 Road	532.5 [533.0] -17.6 76.0 Toe Slope		
69+00				572.9 [573.2] +21.2 200.0	551.7 [552.0]	546.8 [546.1] -5.9 38.0 Bank	541.7 [542.0] -10.0 41.0 Road	541.3 [541.6] -10.4 52.0 Road	541.5 [541.8] -10.2 56.0 Bank	530.2 [530.5] -21.5 77.0 Toe Slope	
68+20				539.5 +2.8 50.0	536.7	534.3 -2.4 18.0 Road	534.3 -2.4 25.0 Road	528.6 -8.1 116.0 Bank	519.6 -17.1 131.0 River Bot.	529.5 -22.2 149.0	520.8 [521.1] -30.9 165 River
67+80			586.5 +50.0 320.0	555.7 +20.1 219.0	535.6	534.8 -0.8 8.0 Road	534.6 -1.0 16.0 Road	531.8 -3.8 79.0 Bank	522.8 -12.8 106.0 River Bot.		
67+~~32~~ +30	579.8 +44.3 230.0	563.8 [533.8] +28.3 130.0	548.0 +12.5 100.0	540.5 +5.0 50.0	535.5	534.2 -1.3 18.0 Road	533.9 -1.6 25.0 Road	531.8 -3.7 91.0 Bank	522.0 -13.5 111.0 River Bot.		

82+10					528.5 + 11.7 50°
81+00	✓			542.3 +12° 50°	532.3 +2° 26°
80+00	✓				538.8 537.7 +6° 50°
79+00	✓				543.1 541.4 +11.5 50°
78+00	✓			540.8 541.1 +9.3 50°	532.10 +0.5 130°
77+00	✓				540.5 +13.5 50°
76+00	✓				551.5 550.2 +21° 50°
75+00	✓				559.8 560.3 +21° 51°
74+00	✓				560.4 558.7 +19.1 50°

(526.1)	523.9 -2.2 14° Road	523.9 -2.2 23° Road	523.8 -2.3 48° Bank	515.6 -10.5 67° River Bed	
530.3	527.8 -2° 29° Road	527.11 -3.2 39° Road	525.16 -4.7 58° Bank	516.20 -14.3 89° Tow Slope	✓
532.5 ✓	529.9 -2.3 11° Road	529.14 -2.8 19° Road	526.11 -6.1 50°		✓
531.76	530.16 -1° 5° Road	530.11 -1.5 13° Road	527.30 -4.6 50°		✓
531.85	530.8 -0.7 14° Road	530.7 532.6 -0.8 22° Road			✓
527.50	527.50 -0° 6° Road	526.9 -0.1 14° Road	526.5 -0.5 50°		✓
530.5 529.14	529.2 -1.3 15° Road	529.1 -1.4 22° Road	528.3 -2.2 50°		✓
538.8 537.3	533.7 -5.1 13° Bank	530.5 -8.3 23° Road	530.9 -7.9 30° Road	529.9 -8.9 50°	✓
541.3 539.14	539.7 -1.6 9° Road	539.6 539.5 -1.7 17° Road	538.6 538.5 -2.7 50°		✓

Party
Keeler
Leach - H. Level
Simpson - Rod

Oct. 13, 25
- Cloudy -

87+37	✓	Even side slope 37°20'				549.0	542.8 ~~543.5~~ ✓	524.7	523.8 ~~524.5~~ ✓	512.7 513.4 ✓	✓
checked Plot to here							-6.2 / 8.0 Bank	-25.0 / 18.0 Rd.	-25.2 / 25.0 Rd.	-36.3 / 42.0	
87+00	✓			589.9 ~~590.3~~ ✓	+47.0 / 64.0	542.9 ~~543.3~~	539.8 ~~540.2~~ ✓	522.9 ~~523.3~~ ✓	522.8 ~~523.2~~ ✓	513.3 ✓	✓
							-3.1 / 3.0 Bank	-20.0 / 18.0 Rd.	-20.1 / 24.0 Rd.	-29.6 / 41.0	
86+00	✓	Even side slope 35°20'				537.0	528.2 ~~528.7~~	519.4 ✓	519.1 ✓	512.6 ~~513.4~~ ✓	✓
							-8.8 / 15.6 Bank	-17.6 / 22.0 Rd.	-17.9 / 29.0 Rd.	-24.4 / 54.0 Toe of slope	
85+36.8	✓			582.9 ~~583.7~~	+39.0 / 67.0	543.9 ~~544.7~~	529.9 ~~530.2~~	519.5 ~~519.8~~	519.3 ~~519.6~~	518.6 ~~518.8~~	518.8 ✓
							-14.0 / 19.0 Bank	-24.4 / 26 Rd.	-24.6 / 32 Rd.	-25.3 / 43.0 Toe of slope	-25.1 / 82.0
85+00	✓		582.8 ~~583.1~~	569.4	+39.0 / 71.0	543.8 ~~544.1~~	532.5 ~~532.9~~	519.8 ~~520.1~~	519.6 ~~519.9~~	513.7 ~~514.0~~	514.4 ✓
							-11.3 / 16.0 Bank	-24.0 / 27.0 Rd.	-24.2 / 33.0 Rd.	-30.1 / 52.0 Toe of slope	-29.4 / 83.0
84+00	✓		589.8 ~~589.8~~ 4	560.8 ~~560.8~~ 4	+50.0 / 121.0	539.8 ~~539.8~~ 4	526.4 ~~526.8~~	521.1 ~~521.5~~	521.2 ~~521.6~~	514.5 ~~514.9~~	514.1 ✓
							-13.0 / 20.0 Bank	-18.3 / 25.0 Road	-18.2 / 32.0 Rd.	-24.9 / 49.0	-25.3 / 70.0
+36					546.4	526.0	523.4	523.2	522.1		
					+20.4 / 50.0		-2.6 / 15.0 Road	-2.8 / 24.0 Road	-3.9 / 31.0 Bank	-10.5 / 47.0 River Bed	
83+00	✓		540.2	528.4	+14.4 / 50.0	525.8 ~~526.0~~	523.3 ~~523.5~~	523.2 ~~523.4~~	522.8 ~~522.9~~	515.4 ~~515.0~~	✓
					+2.6 / 14.0		-2.5 / 13.0 Road	-2.6 / 21.0 Road	-3.0 / 33.0 Bank	-10.4 / 51.0 River Bed	

95+00	✓	585.9 ~~590.2~~	551.9 ~~556.2~~	547.1 ~~551.4~~	538.5 ~~542.8~~	538.2 ~~542.5~~		510.5 514.8			
		+ 34.0	− 4.8	− 13.4	− 13.7	43		− 41.4			
		61.3	12	20	30	Fence		72.6			
			Top Bank	Road	Road			Toe			
94	✓	589.6 ~~590.0~~	564.6 ~~565.0~~	556.8 ~~557.2~~	541.6 ~~542~~	541.6 ~~542~~	541.6 ~~542~~	514.0 ~~514.4~~			
		+ 25	− 7.8	23.4	23.4	23.4		− 50.6			
		47	15.0	19	26	30		55.2			
				Road	Road	Top Bank					
93	✓	588.7 589.2	558.7 ~~559.2~~	549.5 ~~550~~	548.8 ~~549.3~~	511.1					
		+ 30	− 9.2	− 9.9	− 47.6						
		47.5	12	19	59.1						
			Road	Road	Toe						
92	✓	597.2 597.7	567.7 ~~568.2~~	560.6 ~~561.1~~	540.8 ~~541.3~~	541.6 ~~542.1~~	511.6				
		+ 30.0	− 6.5	− 26.4	− 26.1	− 55.6					
		62	11	27.0	37.0	67.4					
			Top Bank	Road	Road	Toe					
91+00	✓	587.1	551.4	540.2 ~~540.7~~	521.5 ~~522.0~~	529.8 ~~530.3~~	512.6 ~~513.1~~				
		+ 36	− 11.2	− 21.9	− 21.6	− 39.3					
		46	16.0	23.0	30	50.0					
				Road	Road	Toe					
		Slide	Slide face out on this side								
89+95	✓	590.1	560.2	554.3 ~~554.8~~	530.5 ~~531.0~~	525.0 ~~525.5~~	525.2 ~~525.7~~	512.5 ~~513.0~~			
		+ 30	− 5.9	− 29.7	− 35.2	− 35.0	− 35.0	48.1			
		45.0	8.0	25.0	34	41	47	15.6			
					Road	Road	Top Bank	Fence Toe			
89+65	✓	588.7 ~~589.2~~	558.7 ~~559.2~~	542.9 ~~543.4~~	518.8 ~~519.3~~	518.8 ~~519.3~~	505.2 ~~505.7~~				
		+ 30	− 15.8	− 39.9	− 39.9	− 53.5					
		52	25.0	35.0	42.0	59					
				Rd.	Rd.						
89+00	✓	590.2 ~~590.7~~	558.8 ~~559.3~~	551.9 ~~552.4~~	526.4 ~~526.9~~	526.2 ~~526.7~~	514.1 ~~514.6~~				
		+ 32.0	− 6.3	− 31.8	− 32.0	− 44.1					
		37.0	8.0	27.0	34.0	53.0					
			Bank	Rd.	Rd						
88	✓	589.4	550.4	540.4	524.3	524.3	513.7				
		39.0	− 10.0	− 26.1	− 26.1	− 37.3					
		46.0	18.0	26.0	33.0	48.0					
			Bank	Rd	Rd						

27.9

Gov. B.M.

Road at this point is wide for passing

Stations 86-100
Checked by - W.H.S.

Station	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation	Elevation
101+00	✓	547.0	539.5	534.2	527.7	525.7	525.7		522.5			
		+ 19.3 / 150	+ 11.8 / 117	+ 6.5 / 50		− 2.0 / 15 Road	− 2.0 / 22 Road	34 Fence	− 5.2 / 50			
		Bottom Gulley										
100+00	✓	+ 25.3 / 200	17.0 / 150	+ 14.0 / 100	527.9	− 1.3 / 9.0 Road	− 1.6 / 18.0 Road	28.0 Fence	− 8.0 / 72.0 Top Bank	− 18.2 / 107.0 Toe		
	Gulley											
99+35	✓	573.3	563.3	566.5	524.6	521.4	521.5		514.2			
		+ 48.7 / 229	+ 38.7 / 204	+ 41.9 / 129		− 3.2 / 14.0 Road	− 3.1 / 21.0 Road	31 Fence	− 10.4 / 90 Toe			
		577.4	Gulley	566.4								
99+00	✓ Top of Hill	+ 48.0 / 112		+ 37.0 / 69	529.4	518.5	518.5		508.6			
						− 10.9 / 26.0 Road	− 10.9 / 33 Road	45 Fence	− 20.8 / 97.0 Toe			
		589.6		569.9		517.7	517.8		509.6			
98+00	✓	+ 52.0 / 110.0		+ 32.3 / 41.0	537.96	− 19.9 / 36 Road	− 19.8 / 43 Road	49 Fence	− 28.0 / 69 Toe			
						518.6	518.7		509.9			
97+52	Rock Pile 15' each way		+ 45.0 / 99.0	+ 16.1 / 24	544.40	− 25.4 / 32.5 Road	− 25.3 / 39.5 Road	− 26.0 / 43.5 Top Bank & Fence	− 34.1 / 63.5 Toe			
						521.4	521.3	521.3	509.9			
96+85 checked Graph to here	✓		+ 46 / 93.0		544.5	− 17.1 / 29.0 Top Bank	− 23.2 / 35 Road	− 23.2 / 42 Road	− 23.5 / 45 Bank Top	57 Fence	− 34.6 / 77.0 Toe	
			572.8									
96+00	✓		+ 25.0 / 40		547.8	− 8.7 / 13.0 Top Bank	− 19.3 / 25 Road	− 19.7 / 34 Road	43 Fence	− 37.4 / 75.0 Toe		

Keeler
Leach
Simpson
Oct. 16-25

107			587.6 ~~588.5~~ + 63° / 129			524.5 ~~520.5~~	516.6 ~~517.9~~ − 8³ / 25 Road	516.3 ~~517.9~~ − 8³ / 35 Road	48 Fence	515.3 ~~516.9~~ − 9³ / 50	✓	×
106			588.4 ~~588.4~~ + 58° / 135			530.0 ~~529.9~~ ~~530.3~~	515.7 ~~516.9~~ − 14³ / 28° Road	515.4 ~~515.7~~ − 14⁶ / 38° Road	51 Fence	515.0 ~~515.0~~ − 15° / 51	✓	×
105+46			588.2 ✓ + 60° / 135			528.2	515.3 ✓ − 12⁹ / 33° Road	515.4 ✓ − 12⁸ / 41°	49 Fence	515.3 ✓ − 12⁹ / 50		
104+69				584.2 ~~594.6~~ ✓ + 65⁶ / 155	543.6 ~~554.0~~ ✓ + 25° / 60	~~528.8~~ 518.6	516.3 ~~516.7~~ − 2³ / 15° Road	516.6 ~~517.0~~ − 2° / 22° Road	45 Fence	516.4 ~~516.8~~ − 2² / 50	✓	
104			575.4 ~~575.4~~ + 52⁴ / 150		544.4 ~~544.4~~ ✓ + 21° / 57	523.4 ~~523.4~~	519.4 ~~519.4~~ − 4° / 19° Road	519.8 ~~520.2~~ ✓ − 3² / 27° Road	47 Fence	519.3 ~~519.3~~ − 3⁷ / 50°	✓	
103+50		566.6 ✓ + 40⁶ / 150	559.0 ✓ + 33° / 124	537.0 ✓ + 11° / 50	528.5 ✓ + 2⁵ / 27° Break	526.0	523.4 ✓ − 2⁶ / 23° Road	523.7 ✓ − 2³ / 32° Road	522.8 ✓ − 3² / 50° Fence			
103		558.4 ~~558.4~~ × 31⁸ / 180°	551.7 ~~552.8~~ ✓ + 25² / 155 Break		532.5 ~~532.5~~ + 6° / 93 Toe	526.5 ~~526.5~~	523.8 ~~524.1~~ ✓ − 2⁷ / 24 Road	523.4 ~~523.4~~ − 3¹ / 33 Road	49 Fence	522.3 ~~522.3~~ − 4² / 50	✓	
102+00	✓			552.4 ~~552.4~~ + 21⁷ / 150		530.7 ~~531.0~~	524.0 ~~524.0~~ − 6⁷ / 34° Road	524.2 ~~524.2~~ − 6⁵ / 41 Road	44 Fence	515.9 ~~516.9~~ − 14⁸ / 100° Top Bank	508.2 ~~508.2~~ − 22⁵ / 125°	✓

113+65				+16.8 / 65° (554.7)	+10.5 / 31° (548.4)	-1.7 / 18° (537.9 ℄ Elv. 536.8)	-6.9 / 39° (531.0)	-22.5 / 78° (515.4)	-27.4 / 107 Road (510.5)	-27.7 / 131 Road (510.2)	-32.4 / 150 River (505.5)	
113+42						℄ 552.6						
113+00			+8.2 / 100 (576.4)		+5.8 / 50 (573.8, 574.2)	6.2 / 80 (568.0, 561.8)	-64.4 / 148 Road (503.6)	-64.5 / 158° Road (503.5)	-69.1 / 175.5 River (498.9, 499.3)			✓
112+78 Top Hill	+12° / 117 (587.7)	+4.9 / 83 (580.6)	+4.5 / 68 (580.4)	+6.7 / 40 (582.4)	0° / 10 (575.7)	14° / 100° Break (575.7, 561.7)	-32.3 / 130 Break (543.4)	-66.5 / 166 Road Toe (509.4)	-66.3 / 177 Road (509.4)			✓
112+00			+37° / 123° (586.7)			549.7	-20° / 66° Break (529.7)	-38.7 / 116 Road (511.0)	-38.4 / 133 Road (511.3)	-37.8 / 144 Fence (511.9)		✓
111+00			+66° / 162° (586.7)	+21.4 / 73 (542.1)		520.7	-9.8 / 37° Road (510.9)	-9.2 / 46 Road (511.5)	-9.5 / 69 Road (511.2)	-9.6 / 80 Road (511.1)	-8.8 / 97 Fence (511.9)	✓
110+00			+72° / 182 (587.5)	0.0 / 8° Road Toe (515.5)	0.0 / 0.0 Road (515.5)	515.5	-2° / 44 Road (513.5)	-2.2 / 51 Road (513.3)	-2.8 / 61° Fence (512.7)			✓
109+00		+57.1 / 200 (576.5)	+6.7 / 55° (586.1)	+0.8 / 14 Road (520.4)	+0.5 / 5° Road (519.9)	519.4	-3.2 / 30° Road (516.2)	-3.8 / 42 Road (515.6)	-4.1 / 50 Fence (515.3)			✓
~~107+97~~				+58° / 124 (588.4)	Road	530.4 Road	-14° / 35° Road (516.4)	-15° / 52 Road (515.4)	-15° / 62 Fence (515.4)			

STATIONS 87 to 122
CHECKED By
W.H.S.

124	✓			$-\frac{0^{5}}{50}$	506.9 ~~507.1~~ ✓ 507.1	507.6 4	$-\frac{0^{7}}{52}$	506.7 ✓	$-\frac{0^{6}}{71}$	506.8 ~~507.0~~ ✓
123	✓			$-\frac{0^{5}}{50}$	508.1 ~~507.3~~ ✓	507.6	$-\frac{0^{1}}{29}$	507.5 ✓	$+\frac{0^{3}}{45}$	507.9 ~~508.1~~ ✓
122	✓			$-\frac{0^{2}}{50}$	507.4 ✓	507.6	$-\frac{0^{4}}{9^{0}}$	507.2 ✓	$+\frac{0^{2}}{25}$	507.8 ~~508.2~~ ✓
121	✓			$+\frac{0^{4}}{50}$	508.0 ✓	507.6	$-\frac{0^{2}}{7^{0}}$	507.4 ✓	$\frac{0.0}{23}$	507.6 ✓
120	✓			$-\frac{0^{3}}{50}$	508.4 ✓	508.4	$-\frac{0^{5}}{8^{0}}$	507.9 ✓	$-\frac{0^{4}}{25}$	508.0 ✓
119+00 P.O.T.	✓			$+\frac{0^{1}}{50}$	508.7 ✓	508.6	$-\frac{0^{2}}{7^{0}}$	508.4 ✓	$+\frac{0^{1}}{25}$	508.7 ✓
118	✓			$+\frac{0^{2}}{50}$	509.3 ✓	509.1	$-\frac{0^{1}}{4}$	509.0 ✓	$+\frac{0^{1}}{19}$	509.2 ✓
117+00	✓			$+\frac{0^{1}}{50}$	510.0 ✓	509.9	$-\frac{0^{5}}{7^{0}}$ Road	509.4 ✓	$\frac{0^{0}}{23}$ Road	509.9 ✓
116+00	✓			$-\frac{0^{3}}{50}$	510.1 ✓	510.4	$-\frac{0^{8}}{5^{0}}$ Road	509.6 ✓	$-\frac{0^{5}}{23}$ Road	509.9 ✓
115+00	✓		$+\frac{7^{8}}{65^{0}}$	$+\frac{0^{1}}{47}$	510.6 ✓	510.5	$-\frac{0^{4}}{8^{0}}$ Road	510.4 ✓	$+\frac{0^{1}}{27}$ Road	510.6 ✓
114+29				$+\frac{10^{9}}{50}$	522.1 ✓	511.2	$\frac{0^{2}}{50}$ Road	511.0 ✓	$+\frac{0^{1}}{68}$	511.3 ✓
114+00	✓			$+\frac{10^{0}}{50^{0}}$	529.7 ✓ 530.1	519.7	$-\frac{8^{7}}{37}$	511.0 ✓	$-\frac{9^{4}}{79}$ Road	510.7 ✓

30 Fences

124	✓			$-\frac{0^{5}}{50}$	506.9 ~~507.1~~ ✓ 507.1	507.6 4	$-\frac{0^{7}}{52}$	506.7 ✓	$-\frac{0^{6}}{71}$	506.8 ~~507.0~~ ✓
123	✓			$-\frac{0^{5}}{50}$	507.4 ✓	507.6	$-\frac{0^{1}}{29}$	507.5 ✓	$+\frac{0^{3}}{45}$	507.9 ~~508.1~~ ✓
122	✓			$-\frac{0^{2}}{50}$	508.0 ✓	507.6	$-\frac{0^{4}}{9^{0}}$	507.2 ✓	$+\frac{0^{2}}{25}$	507.8 ~~508.2~~ ✓
121	✓			$+\frac{0^{4}}{50}$	508.4 ✓	507.6	$-\frac{0^{2}}{7^{0}}$	507.4 ✓	$\frac{0.0}{23}$	507.6 ✓
120	✓			$-\frac{0^{3}}{50}$	508.7 ✓	508.4	$-\frac{0^{5}}{8^{0}}$	507.9 ✓	$-\frac{0^{4}}{25}$	508.0 ✓
119+00 P.O.T.	✓			$+\frac{0^{1}}{50}$	509.3 ✓	508.6	$-\frac{0^{2}}{7^{0}}$	508.4 ✓	$+\frac{0^{1}}{25}$	508.7 ✓
118	✓			$+\frac{0^{2}}{50}$	510.0 ✓	509.1	$-\frac{0^{1}}{4}$	509.0 ✓	$+\frac{0^{1}}{19}$	509.2 ✓
117+00	✓			$+\frac{0^{1}}{50}$	510.1 ✓	509.9	$-\frac{0^{5}}{7^{0}}$ Road	509.4 ✓	$\frac{0^{0}}{23}$ Road	509.9 ✓
116+00	✓			$-\frac{0^{3}}{50}$	510.6 ✓	510.4	$-\frac{0^{8}}{5^{0}}$ Road	509.6 ✓	$-\frac{0^{5}}{23}$ Road	509.9 ✓
115+00	✓		$+\frac{7^{8}}{65^{0}}$	$+\frac{0^{1}}{47}$	510.6 ✓	510.5	$-\frac{0^{4}}{8^{0}}$ Road	510.4 ✓	$+\frac{0^{1}}{27}$ Road	510.6 ✓
114+29				$+\frac{10^{9}}{50}$	522.1 ✓	511.2	$\frac{0^{2}}{50}$ Road	511.0 ✓	$+\frac{0^{1}}{68}$	511.3 ✓
114+00	✓			$+\frac{10^{0}}{50^{0}}$	529.7 ✓ 530.1	519.7	$-\frac{8^{7}}{37}$	511.0 ✓	$-\frac{9^{4}}{79}$ Road	510.7 ✓

Keeler
Leach
Simpson

135	✓		502.0 ~~502.3~~ ✓		502.1	501.8 502.7 ✓	502.6 502.9 ✓			✓
			−01 / 50			+03 / 12	+05 / 29	40		
134	✓		~~502.2~~ 501.9 ✓		502.6	502.8 ✓	~~505.5~~ 503.2 ✓			✓
			−07 / 50	O 6° Pole		+02 / 16	+06 / 31	39		
133	✓		502.2 ✓		503.1	502.6	502.5			
			−09 / 50			−05 / 17	−06 / 32	41		
132	✓		502.7 ✓		503.6	503.10	503.14			✓
			−09 / 50			−06 / 19	−02 / 34	44		
131	✓		503.9 ✓		504.1	504.12	504.13 ✓			
			−02 / 50	O 3° Pole		+01 / 17	+02 / 33	41		✓
130	✓		504.8 ✓		504.8	504.8 505.0 ✓	505.10 ✓			✓
			00 / 50			−00 / 17	+02 / 31	37		
129	✓		505.11 ✓		505.4	505.12 ✓	505.7 ✓			✓
			−03 / 50			−02 / 15	+03 / 31	35		
128	✓		505.11 ✓		504.9	504.3	504.5 ✓			
			+02 / 50	O 11° Pole CG&E Co.		−06 / 16	−04 / 31	34		✓
127	✓		505.13 ✓		505.3	504.7	505.12 ✓			
			00 / 50			−06 / 14	−01 / 29	34		✓
126+31	✓		505.1 ✓		505.9 506.3	504.6	505.13 ✓			
			−02 / 50			−13 / 15	−06 / 30	35 Fence		✓
126	✓		505.16 ✓		506.1 2'	504.9	505.16 ✓			
			−05 / 50			−12 / 29	−05 / 46	50 Fence		
125	✓		506.9 ✓		507.1 Pole	505.11	505.9			✓
			−02 / 50			−20 / 59	−12 / 74	77 Fence		
						Road	Road			

145	527.1 / 527.1	4 38 / 50	44	524.8 / 524.8	+1 0 / 29	523.6 / 523.6	+0 3 / 80		523.6	3		3	519.9 / 520.7	−3 4 / 50
143+68		+ 3 4 / 50	Fence 526.0 / 526.0			522.1 / 522.1	−1 1 / 29		523.1	2		17	521.9 / 522.2	−1 3 / 50
143		+ 5 9 / 50	523.6 / 523.6		+0 1 / 31	518.8 / 518.8	+0 3 / 18	518.8 / 518.8	Sta on edge of Road				516.1 / 516.1	−1 6 / 50
142	525.8 / 525.8	+ 1 3 9 / 50	526.1 / 526.1		+2 6 / 16	514.5 / 514.5	Road 514.1 / 514.1 − 0 4 / 90		517.8	7				
						Road			511.9 / 512.5	4	511.9 / 512.5	0.0 / 50		510.8 / 511.4 − 1 1 / 50
141				Top Bank		523.9 / 523.9	+ 1 7 5 / 50	523.6 / 523.6	506.8		506.4 / 506.1	− 0 3 / 40	506.4 / 505.3	0 0 / 15	20	− 1 7 / 50	504.7 / 504.7
+68							+ 1 4 8 / 50	514.3 / 514.3	508.8			− 3 6 / 13	− 3 5 / 26	31		
140							+ 1 2 / 50	503.2 / 503.2	502.4		502.2 / 502.2	+ 0 1 / 26	502.4 / 502.4 + 0 3 / 42	52		
139+50							− 0 1 / 50	501.4 / 501.4	501.5		501.2 / 501.2	− 0 3 / 29	501.2 / 501.2 − 0 3 / 46	70		
139							+ 0 2 / 50	501.6 / 501.6	501.4	4	501.1 / 501.1	− 0 3 / 31	501.4 / 501.4 − 0 0 / 48	85		
138							+ 0 2 / 50	502.2 / 502.2	502.0		501.7 / 501.7	− 0 3 / 44	502.0 / 502.0 + 0 1 / 59			
137							+ 0 2 / 50	501.9 / 501.9	501.7		501.6 / 501.6	− 1 1 / 60	501.7 / 501.7 0 0 / 24	40		
136							− 0 2 / 50	501.7 / 501.7	501.9		501.5 / 501.5	− 0 4 / 80	501.9 / 502.3 0 0 / 27	40		
								0 5 0 Pole				Road	Road	Fence		

156	+17 9/50	38 Fence	+10 0/3	+16/26 Road	+17/3 0 Road			5 501.7	-35/5 0 Fence	-39/50	Poughed Ground
155	+64/50		+20/34	+19/14				498.2 493.6		-04/50	
154	+58/50		+46/42 Road	+46/18 Road		+40/11	+02/7 0	5 497.4	4 0	+06/50	
153	+15 0/55		+55/46	+63/22			+03/8 0	498.8 499.2	3 0	-04/50	
152	+10 0/50	47	+98/44	+42/39	+44/15	—	+10/7 0	5 500.8	3 0	-14/50	Ground Ploughed
+85	+24/50	48		+17/36	+14/14			502.9 503.3	5 0	-14/50	
150	+31/50	47		+06/32	+09/14 0			3 505.2	4 0	-29/12 0	-38/50
149	+34/50	46		+08/34	+07/15 0			505.8 506.2	2 0	-30/10	-41/50
148	+24/50	45		+05/35	+06/17			507.9	3 0	-32/50 0	
147	+13/50	43		0 0/35	+04/15			513.9	3 0	-17/50	
146	+25/50	42		+04/33	+04/12 7			517.7 520.3	4 0	-25/50	
145+32	+35/50	42		+11/23	+02/4 0			0 523.4	4 0	-34/50	
		Fence		Road	Road				Fence		

Top Bank

Fence

Fence

Top Bank & Fence

Top Bank

Edge Road Top Bank

Bottom Bank

Fence on ℄

Bottom Rock Retain Wall

Top Rock wall

Break

Fence

Ground Ploughed

		501.7		500.8		499.6						
+81	+25 / 50	32 Fence	+08 / 24	Edge Rd.	+04 / 10	Edge Road		7° Fence	-3° / 8° Toe	-4 / 50	495.0	
164	+46 / 58	+34 / 40			+37 / 23	7°				-1° / 50		
+50	+12 / 50	53 Top Bank	+48 / 38		+52 / 14	Top Bank Edge Road	3° Fence			+01 / 50		
163	+17 / 50	43	+11 / 36		-01 / 25°				10 Fence	-59 / 14 Toe	-6° / 50	
162	+20 / 50	43	+14 / 38		+1° / 25°		+08 / 6°		-3° / 7°		-5 / 50	
161	+22 / 50	41	+15 / 35		+04 / 22°			+03 / 4° Top Bank	-54 / 11°		-6° / 45°	Cow Shed
160	+12° / 49	Fence			+28 / 34°		+33 / 9°		-27 / 4°		-4° / 50	
159	+19 / 50	47 Fence	+16° / 44		+38 / 32		+39 / 7°		-34 / 6°		-37 / 50	
+68	+17 / 50	42 Fence	+12 / 38°		-05 / 27°		0.0 / 1°		+74 / 13	Fence Toe	-78 / 50	
158	+13 / 50	42 Fence	+8° / 36		+02 / 29		+04 / 6°		-58 / 11°	Fence also Toe	-75 / 50	
+59	+22 / 50		+20 / 42		+34 / 30		+22 / 7°		7°	-58 / 12°	-6° / 50	Alfalfa Field
157	+23 / 50		+17 / 32 Top Bank		+19 / 26 Road Toe Bank		+22 / 5° Top Bank Road		7° Fence	-54 / 10° Bottom Slope	-5° / 50	Four Bee Hives Bee Ware

496.3 ℄ Toe Slope

℄ on Edge Bank

℄ on edge Bank

℄ on edge Road

℄ on edge of Bank

℄ on Edge of Bank

176	+22 / 50	39	+15 / 36	+8 / 31	+8 / 15
175	+22 / 50	40	+16 / 39	+10 / 35	+10 / 21
174	+21 / 50	36	+17 / 36	+10 / 32	+10 / 16
173+00		+24 / 51	+18 / 38	+12 / 36	+12 / 21
172+07	+23 / 50	47	+17 / 39	11 / 36	+12 / 21
+68	+3 / 50			17	-0 / 10
170	+3 / 50	35	+0 / 33		+1 / 8
169	+3 / 50	41	+1 / 33		+0 / 16
168	+7 / 50	45	+5 / 28	2 / 24	+1 / 8
+33	+10 / 56	+7 / 27	+5 / 24		+4 / 11
167		+7 / 55	+3 / 24		+2 / 8
166	+6 / 50	35	+2 / 30		+2 / 6

Fence; Fence; Top Bank; Toe Bank; Rd; Fence; Fence; Road; Fence; Top Bank; Top Bank; Road

7	-4 / 16		-4 / 50	
6	-3 / 16		-3 / 50	
8	-2 / 12		-3 / 50	
1	-3 / 5		-3 / 50	
1	-3 / 9		-4 / 50	
-0 / 21	41	-7 / 64		
7	-4 / 18		-5 / 50	
2			-0 / 50	
5	-3 / 13		-4 / 50	
6	-3 / 12		-4 / 50	
5	-5 / 15		-6 / 40	
2	-1 / 7		-2 / 50	

Fence; Toe; Fence; Toe; Road; Fence; Toe; Fence; Toe

188	✓	+15/50	32	+11/32	−01/26	+03/8°	487.9	6°		−16/50	
187	✓	+30/50	34	+23/34	+07/29	+05/10°	487.2	2°		−12/50	
186	✓	+27/50	36	+27/36	+02/30	+04/10°	488.2	6°		−09/50	
185	✓	+26/50	35	+23/35	+04/31	+04/10°	488.1	7°	−19/18	−30/50	
184	✓	+47/50	34	+48/34	+22/29	+21/12	5.	8°		−13/50	
183	✓	+47/50	34		+23/31	+18/16	0	10°		−13/50	
182	✓	+57/50	39		+28/32	+23/16	486.7	5°		−05/50	
181	✓	+48/50	42		+20/33	+19/17°	6	0/0	−23/11	−22/50	
180	✓	+145/50	45	+100/39	+45/35	+50/19	488.8	2°	−20/9°	−16/50	
179	✓	+153/50	38	+86/32	+48/30	+51/16°	0	5°	−14/12°	−13/50	
178	✓	+171/50	38	+107/33	+52/29	+60/13	490.6	6°	−24/14	−26/50	
177	✓	+212/50	39	+141/34	+73/30	+77/14	0	6°	−46/19	−46/50	
			Fence	Top Bank	Road	Road		Fence	Toe		

		488.1 0	487.9	486.5	486.7	486.7				484.8	
200 ✓	+ 13 / 50	492.4 3	+ 12 / 27	492.1 0	- 02 / 20	0.0 / 1.0	487.3	6º		- 19 / 50	484.7
199 ✓	+ 20 / 50	490.2	+ 17 / 25	25 488.7	490.3 / 0.0 / 19	490.3 / 0.0 / 1.0	3 / 490.0	6º		- 55 / 50	480.4
198 ✓	+ 39 / 50	487.1	+ 24 / 27	27 485.9	+ 04 / 21	486.3 / 0.0 / 20	486.3 / 487.9	6º		- 59 / 50	483.1 0
197 ✓	+ 32 / 50	486.7	+ 20 / 29	29 486.5	- 05 / 22	483.9 / 0.0 / 40	483.9 / 484.6	8º		- 09 / 50	483.1 3
196 ✓	+ 18 / 50	489.4	+ 16 / 30	30 489.1	- 03 / 23	484.9 / 0.0 / 40	484.9 / 485.3	8º		- 16 / 50	485.5
195 ✓	+ 16 / 50	492.0	+ 13 / 31	31 491.0	- 01 / 23	487.8 / 0.0 / 40	487.8 / 486.9	8º		- 23 / 50	486.8
194 ✓	+ 32 / 50	493.8	+ 22 / 29	29 493.7	+ 01 / 22	0.0 / 20	488.8 / 489.8	11º	487.4 / - 14 / 17	- 20 / 50	489.7 0
193 ✓	+ 28 / 50	494.3	+ 27 / 30	30 493.8	+ 05 / 25	+ 03 / 40	491.1 0	10º	489.1 5 / - 15 / 16	- 20 / 50	488.6
192 ✓	+ 28 / 50	496.5 7	+ 23 / 29	29 495.4 3	491.5 / 0.0 / 25	+ 02 / 40	491.5 / 493.0	10º		- 29 / 50	490.1 5
191 ✓	+ 37 / 50	496.8 2	+ 23 / 30	30 495.4	+ 05 / 25	+ 02 / 40	493.0 / 492.8	9º		- 25 / 50	490.9
190 ✓	+ 28 / 50	493.8	+ 20 / 32	32 492.9	+ 03 / 26	+ 03 / 40	493.4 / 494.0	8º		- 25 / 50	486.7
189 ✓	+ 34 / 50	32	+ 25 / 32	32 Top Bank Fence	+ 08 / 28 Road	+ 04 / 10 Road	490.4 / 492.6	6º	489.2 / - 12 / 11º	- 37 / 50	
								Fence	Toe		

		487.5		485.4		482.8		482.4	
212		+79 / 50	33	+58 / 33		+32 / 29		+28 / 13	5°
		490.0				482.0		482.5	
211		+10° / 50	32	32		+2° / 29		+22 / 13	5°
		489.8		487.7		484.9		484.8	
210		+67 / 50	30	+5° / 30		+22 / 27		+21 / 10°	4°
		494.3		492.5		489.3		489.4	
209		+6° / 50	32	+42 / 32		+1° / 28		+11 / 10°	4°
		493.2		491.7		488.6		489.2	
208		+50 / 50	32	+35 / 32		+04 / 27		+1° / 9°	3°
		489.9		486.1				486.1	
207		+43 / 50	33	+25 / 33		0.0 / 27		+05 / 9°	2° Fence
		487.3				485.1			
	+34	+25 / 50	52			+03 / 21°		~~27~~	
		485.6		486.2		485.0		484.5	
206		+12 / 50	57	+18 / 37		+06 / 25		+01 / 7°	
		486.7		483.4		484.5			
205		+20 / 50		-13 / 30.0		-02 / 24.0		0.0 / 5.0	
		489.9		486.2		486.4		484.7	
204		+09 / 50	26	+12 / 26		-06 / 19.0		0.0 / 2.0	
		487.3		487.4				487.0	
203		+13 / 50	27.5	+14 / 27.5		0.0 / 22		0.0 / 4.0	
		487.5		483.1		486.0		486.0	
201		+24 / 50		+2° / 27		0.0 / 22		0.0 / 3.0	
				Top Bank					
				Fence		Road		Road	

						478.3
479.6						-13 / 50
480.0						479.1
						-09 / 50
482.7						479.8
						-29 / 50
488.3						483.0
			~~4°~~			-53 / 50
488.2				482.1		482.7
				-1 1 / 8°		-55 / 50
485.6				484.0		482.1
				-16 / 6°		35 / 50
484.8						483.0
			12°			-18 / 50
484.8 = Road						482.8
			7°			-16 / 50
484.7						483.6
			3.0			-11 / 50
487.0				485.0		484.8
			6.0	-20 / 15		-22 / 50
486.0				483.8		483.7
			4.0	-22 / 12.0		-23 / 50
485.1				483.7		483.8
			5.0	-14 / 10.0		-13 / 50
			Fence	Toe		

223		58	+99 / 50	+73 / 39	-01 / 36
222+82		66	+110 / 50	+74 / 38	+03 / 33
222		53	+138 / 50	+100 / 40	0.0 / 36°
221		50	~~+70 / 50~~	+79 / 50	-02 / 45°
220	+72 / 50	37		+28 / 32	0.0 / 30
219 see back of book	+74 / 50	38	38	+15 / 23	-01 / 18°
~~218+25~~		33	+36 / 33	+17 / 16 Top Ban	+02 / 15 Road
217		34	+16 / 34	+05 / 22	+03 / 9°
216		39	+22 / 39	+05 / 27	+06 / 9°
215 copied up to here	+16 / 50			+05 / 27	+06 / 12
214		46	+54 / 46	+20 / 28	+16 / 10°
213	+59 / 50	42	+59 / 42	+19 / 27	+16 / 12
			Fence	Rd	Rd

480.8	0.0 / 30		-45 / 10	-60 / 15	-62 / 50
5			-52 / 70	-54 / 50
℄ on edge Road			-47 / 12	-48 / 50
℄ on edge Road 4	0.0 / 1.0		-41 / 8°	-41 / 50
478.6	0.0 / 10	~~10°~~	-32 / 10°	-20 / 50
478.9	-04 / 9°	12	-21 / 13	-22 / 50
480.9	-07 / 16° Road	31	-27 / 32	-36 / 50
479.8		5°	-16 / 10°	-20 / 50
481.8 2		5°	-30 / 14°	-30 / 50
481.5		6°	-28 / 15°	-36 / 50
481.9		5°	-42 / 15	
481.1 0		5°		-24 / 50
		Fence	Toe	

	509.1	507.1	498.9	499.1	
233	+13° / 50	+11° / 43	+2° / 39	+3° / 14°	
	514.9 46	Fence 504.9	498.6	499.6	
232	+34° / 80	+24° / 58	+18° / 55	+19° / 33	
	517.1 61	Fence 510.3	Rd 500.2	Rd. T Bank 501.2	
231	+33° / 70	+27° / 55	+16° / 52	+17° / 31	
	512.6 63	Fence 506.6	497.1	498.1	
230	+26° / 70	+19° / 49	+9° / 45	+10° / 24	
	512.4 53	Fence 508.7	497.8	499.1	
229+42 ✓	+22° / 75	+17° / 61	+7° / 51	+8° / 30	
	511.3 65	Fence 503.9	495.9	496.3	
229 ✓	+20° / 70	+13° / 49	+5° / 44	+5° / 20	
	507.6 58	Fence 497.4	489.6	489.6	
228 ✓	+21° / 72	+17° / 57	+9° / 52	+9° / 27	
	489.1	486.6	483.1	480.9	
227 ✓	85 / 50	+8° / 48	+4° / 45	+2° / 12	
		Top Bank	Rd.	Rd.	
+81 ✓		+2° / 50	+0° / 33	+0° / 6°	
		477.6	476.5	476.6	
226 ✓		+1° / 50	0.0 / 33	+0.1 / 6°	
		478.9	Road	Road	
225 ✓		+2° / 50		00 / 27°	
		485.4	479.4	Road 480.2	476.9
223+67 ✓	74	+9° / 47	+3° / 44	+3° / 18°	+0° / 8°
	Fence	Top Bank	Road	Edge Rd Top	Toe

	494.0	488.4	479.5	472.9	
496.1	-21 / 13	-77 / 33	-16° / 78	-23° / 90	
				470.9	470.1
480.1				-9° / 31	-10° / 59
				471.2	471.5
483.3				-12° / 28°	-11° / 38°
				468.3	
487.3 / 490.0			-19° / 35	-19° / 35	
			469.8	468.2	
490.8	2°		-21° / 47°	-22° / 65	
			Break	470.0	470.2
490.7	16°		-13° / 40	-20° / 58	-20° / 73
			Break	475.0	474.8
480.0				-5° / 35	-5° / 50
			477.6	474.4	473.8
478.6			-1° / 10°	-4° / 14	-4° / 50
			Top Bank	474.7	474.3
479.7				-5° / 16	-5° / 50
				476.3	474.0
476.5				-0° / 6°	-2° / 50
	2°				474.4
476.1	7°				-1° / 50
	Fence				474.8
476.4					-1° / 50
				Toe	

E = edge Bank
= Fence Cor

E on edge Road

243	+31 / 50		-02 / 21	0.0 / 62
242	+48 / 50		+08 / 24	+13 / 8
241	+68 / 50		+31 / 28	+31 / 15
240	+72 / 50		+11 / 22 Road	+18 / 10 Road
239	+103 / 50	+22 / 24 Fence		+03 / 12 Road
238	+165 / 60	+82 / 30 Fence	+44 / 26	+49 / 13
237	+172 / 67	+99 / 38 Fence	+62 / 32	+62 / 15
+50	+209 / 83	+176 / 47 Fence	+89 / 42	+89 / 23
236 see back of book	+189 / 80	+103 / 38 Fence	+67 / 34	+63 / 11
235	+157 / 62	+102 / 40 Fence	+47 / 37	+53 / 11
+55	+148 / 60	+105 / 45 Fence	+47 / 42	+58 / 16
234	+132 / 50	+98 / 38 Tp Bnk Fence	+32 / 34 Rd. Bt. Bnk	+35 / 8 Rd. Tp Bnk

		9			-36 / 50
		7			-45 / 50
		-39 / 35 Fence			-55 / 50
					-58 / 50
	5 Road				-32 / 50
				-65 / 23	-76 / 36 Fence
				-105 / 47	-114 / 75
				-105 / 34	-128 / 50
	476.5			-143 / 44	
	-127 / 50			-175 / 68	
				-188 / 72	
				-219 / 91 Toe	

253 ✓	+53 / 50	38		+18 / 32°	+18 / 13°	4°
252 ✓	+5° / 50	36		+26 / 30	+25 / 11°	4°
251 ✓	+1° / 50	32		+18 / 28	+19 / 7°	2° Fence
250 ✓	−06 / 50	31		+07 / 23°	+08 / 5°	
+72 ✓	+03 / 50	30		−01 / 22	0.0 / 4°	
249 ✓	+91 / 50		+61 / 34 Top Bank	−03 / 28°	−02 / 5°	
248 ✓	+44 / 50	45	+42 / 43 Top Bank	+04 / 33	+05 / 11°	
+40 ✓	−03 / 50	30		−01 / 24	0.0 / 2°	
247 ✓	−02 / 50	30		+01 / 24	0.0 / 3°	
246 ✓	+04 / 50	29		+02 / 24	+02 / 4°	
245 ✓	−01 / 50	28	Fence	0.0 / 24	+02 / 4°	
244 see back of book	09 / 50			+04 / 20 Road	+05 / 5° Road	

			−03 / 50
			0.0 / 50
		−07 / 2°	−09 / 50
0.0 / 0.0		−21 / 5°	−27 / 50
5°		−34 / 14	−34 / 50
16		−41 / 27	−40 / 50
17°		−37 / 29	−36 / 50
5°		−2[illegible] / 30	−29 / 50
4°		−27 / 8°	−25 / 50
5°			−11 / 50
6°			−12 / 50
19°			−05 / 50
Fence		Toe	

264	+28.6 / +1	+25.9 / 37 Tp. Bnk	+18.6 / 29 Bottom Bnk	+18.0 / 20.2 Top Bnk	
263	+42.4 / 57	+36.3 / 49 wash	+35.2 / 43.0 wash	+14.9 / 7.0 Top Bnk	
262	+26.8 / 60.3		+17.0 / 27 Top Bank	-0.2 / 15 Bottom Bank	
261	+22.0 / 50		+7.6 / 13 Top Bank	-0.2 / 5.0 Bottom Bank	
260	+11.0 / 50	+3.0 / 31 Top Bank	-0.5 / 23	-0.2 / 6.0	
259	+1.0 / 64	+1.5 / 45 Break	+1.2 / 37	+0.9 / 19.0	
+53	+4.2 / 50		+1.1 / 27	+0.2 / 4.0	
258	+5.6 / 50		+1.3 / 36	+0.8 / 15	
257	+13.6 / 50	+11.0 / 41	+4.0 / 27	+3.9 / 14.0	+3.8 / 8.0 Top Bank
256	+12.3 / 50	+7.6 / 38	+2.1 / 27.0	+2.4 / 11.0	
255	+9.0 / 50	+5.0 / 37 Top Bank	+1.2 / 30	+1.6 / 16	2.0 Fence
254	+6.1 / 50		+1.2 / 33 Road	+1.2 / 17.0 Road	6.0 Fence

			-0.1 / 6.0 Rd	0.0 / 23.0 Rd	-0.5 / 35.0 Tp. Bnk	-1.7 / 54.0 Bottom Bnk
	℄ Bottom Bank		+0.1 / 8.0 Road	+0.1 / 25 Road	-0.3 / 38 Top Bank	-1.3 / 54 Bottom Bank
	℄ = Bottom Bank			-1.4 / 42.0 Bottom Bank		
	+0.6 / 22 Top Bank					
	0.0 / 0.0 Road		0.0 / 21 Road	-0.4 / 32 Top Bnk.	-1.2 / 49 Bottom Bank	
	0.0 / 5.0 Top Bank		-4.5 / 11.0		-5.0 / 21 Top Bank	-1.3 / 25 River
			-2.7 / 9.0 Top			-4.5 / 50
	-0.2 / 5.0 Top Bank		-2.7 / 13 Bottom Bank			-4.8 / 50
				76.0		-5.1 / 50
				29.0		-2.5 / 50
				11.0		-2.0 / 50
						-1.5 / 50
				Fence		-0.5 / 50

Note: see back of book for stations —
272+50 - 273+00 274+00 - 275+00

Keeler
Leach
Simpson
Oct. 20-25
Cloudy

+50	+37 / 50			
275	+36 / 50			
274	+92 / 50		21º / Toe	
273	+24º / 50	+9º / 14º Tp. Bnk	0.0 / 2º Bottom B	
272+50				
272	+32º / 50	+11 / 10º Tp. Bnk	+0 / 4º Bottom Bnk	
271	+30º / 50	+10.7 / 10º Top. Bnk	+0 / 3º Bottom Bnk	
270	+40 / 50	+20º / 19º Tp. Bnk	+0 / 6º Bottom Bnk	
269	+35 / 50	+12 / 11º Tp. Bnk.	-0.3 / 6º Bottom Bnk	
268	+24 / 50	+12 / 24º Tp. Bank	+0 / 16 Bottom Bank	+0 / 11º Rd.
267	+17 / 50	+4º / 23º Tp. Bnk	0.0 / 20º Bottom Bnk	+0 / 12º Rd.
266	+32 / 58º	+9 / 14º Tp. Bnk	+0 / 9º Bottom Bnk	
265	+20º / 44	+1º / 17 TpBnk	+0 / 14 Bottom Bnk	-0 / 6º Rd.

	-0 / 5º Rd.	-0 / 20	-0 / 27 Tp. Bnk	-10 / 74º
				Fence
		+0 / 17º	+0 / 22 Top Bnk	-9 / 66º
	E edge Rd.			Fence
	0.0 / 2º Rd	+0 / 15 Rd	+0 / 19º Tp. Bnk	-8 / 41 Bottom Bnk.
				Fence
	+0 / 4º Rd	+0 / 23 Rd	+0 / 28 Tp. Bnk	-9 / 43 Bottom Bnk
				Fence
		+0 / 19º Rd.	+0 / 25 Tp. Bnk	-12 / 44 Bottom Bnk
	E edge Rd.			
		0.0 / 18º Rd	+0 / 22 Tp. Bnk	-12 / 44 Bottom Bnk
	E edge Rd.			
		0.0 / 18 Rd.	0.0 / 24 Tp. Bnk	-12 / 44 Bottom Bank
	E on edge Road			
	E on edge	0.0 / 15 Rd	-0 / 21 Top. Bnk	-11 / 39 Bottom Bnk
		-0 / 6º Rd.	-0 / 12 Top. Bnk	-11º / 28 Bottom Bnk
		-0 / 5º Rd	-0 / 10º Tp. Bnk	-10 / 24º Bottom Bnk
	E edge Rd	+0 / 12 Rd	+0 / 21 Tp. Bnk	-8 / 26 Bottom Bnk
		-0 / 17º Rd	-1º / 25 Tp. Bnk	-13 / 42 Bottom Bnk.

Note Sta 274 to Sta 275+50
Large drainage area

Note - see back of book for stations -
276+00 - 277+00 - 277+37 - 278+00 - 279+00
279+63.3 - 280+00 - 281+00 - 282+00 283+00

287	+23 1/50	+7 5/7°	0.0/1°			+0 3/3° Rd.	+0 4/18° Rd.	+0 5/22 Tp. Bnk	-8 6/48 Toe	
286	+19 9/43°	+6 6/7° Tp. Bnk				+0 4/3° Rd.	+0 7/18° Rd.	+0 6/22 Tp. Bnk	-8 8/50 Toe	
285	+11 1/50°		+2 7/12° Bott. Bnk			+0 4/4° Rd.	0.0/21 Rd.	+0 2/26 Tp. Bnk		
284	+10 7/50°		+2 6/25 Bottom Bn			+0 4/5° Rd.	+0 4/18° Rd.	+0 2/25 Top Bnk		
283	+25 3/50°	+10 0/10° Top Bnk				-1 2/2 Bottom Bnk	-0 3/19 Rd.	-0 8/30 Top Bnk	-9 6/50 Toe	
282	+18 4/50	+10 7/32° Top. Bnk	-0 7/20 Bottom Bnk	-0 7/17 Rd.	0.0/3.0 Rd.			-0 6/4° Top Bnk	-8 6/16° Toe	
281	+23 3/40	+10 6/15 Tp. Bnk	0.0/5° Bottom Bnk				+0 3/11° Rd.	+0 5/15 Tp. Bnk	-10 3/30 Toe	
280	+21 4/31	+9 0/6° Top. Bnk	—			+0 3/3° Rd.	+0 4/15 Rd.	+0 5/20 Tp. Bnk	-8 8/35 Toe	
279	+13 2/25	+6 2/6° Top Bnk	0.0/1° Bottom Bnk			+0 1/3° Rd.	+0 8/14 Rd.	+1 0/18° Top Bnk	-8 0/33° Toe	
278+63.3										
278	+11 0/25°					-4 6/8° Rd.	-3 8/23° Rd.	-3 6/30 Top Bnk	-13 6/45 Toe	
277	+16 3/50	+3 2/9° Top. Bnk	+0 2/6° Bottom Bnk			0 2/3° Rd.	+0 2/15° Rd.	+0 1/19° Top. Bnk	-5 7/28°	
276	+2 8/50			0.0/6° Rd		-0 6/10° Rd.	-0 7/17° Tp. Bnk	-6 1/29° Bottom Bank		

℄ = Bottom Bnk

℄ = Edge Rd.

℄ = Bottom Bank

℄ = Top Bnk.

Fence

Sta		Top Bnk	Bottom Bank	Road	Road
299	+28.5 / 50	+10.5 / 9	0.0 / 1		
298	+11.2 / 50	+4 / 36	+1.6 / 9	0.0 / 6	
297	+24 / 50	+7.9 / 8	0.0 / 0.0		
296	+22.1 / 50	+7.7 / 11	0.0 / 0.0		
295+06	+12 / 50	+3.7 / 32			
294	+15.8 / 50	+2.9 / 5	0.0 / 1		
293	+21.1 / 50	+5.2 / 6	0.0 / 0.0		
292 ✓	+16.1 / 50	+3 / 3	0.0 / 0.0		
291 ✓	+15.5 / 50		0.0 / 2		
290 ✓	+18 / 50	+4.1 / 5	0.0 / 0.0		
289	+15.3 / 50	0.0 / 0.0			
288	+20.8 / 50	+7.3 / 8	+0.5 / 2		

Road	Road	Top Bnk.	Toe	
+0.2 / 2	+0.5 / 16	+0.2 / 22	-2.5 / 28	-2.5 / 50
0.0 / 0.0	+0.2 / 14	+0.2 / 19	-2.7 / 27	-3.3 / 45
+0.3 / 2	+0.5 / 19	+0.5 / 19	-3.5 / 27	
+0.3 / 2	+0.4 / 16	+0.5 / 19	-2.5 / 32	
-1.3 / 10	-1.5 / 29	-1.2 / 35	-4.1 / 50	
+0.3 / 3	+0.4 / 16	+0.7 / 19	-1.8 / 27	-3.2 / 59
+0.2 / 3	+0.3 / 16	+0.5 / 19	-1.8 / 27	-2.9 / 50
-0.2 / 2	+0.4 / 21	+0.4 / 21	-1.8 / 28	
-1.0 / 2	+0.3 / 20	+0.3 / 20	-2.0 / 28	
+0.2 / 2	+0.5 / 15	+0.4 / 18	-2.3 / 24	
-4.2 / 8	-3.4 / 20	-3.4 / 25	-9.2 / 47	
+0.2 / 4	+0.1 / 17	+0.2 / 19	-6.2 / 30	

		Top Bnk.	Bottom Bank	Road	Road		Road	Road	Top. Bnk	Toe	
311 see back of book	456.2 +16° 43° 454.7	445.7 +6° 4°	439.2 −0° 3° 440.1			439.0	440.0 +0° 6°	439.9 +0° 15° 439.9	440.1 +0° 18° 439.9	435.9 −3° 31° .0 438.4	436.0 −3° 50° .2 437.6
310	456.3 +14° 41°		445.4 −0° 16°			440.3	441.5 +0° 7°	441.2 −0° 22°	441.0 −0° 22°	438.3 −2° 27°	438.3 −3° 50
309	453.3 +15° 50°	443.7	441.0 +4° 34			441.3	441.6 +0° 3°	441.5 −0° 20	441.5 −0° 24°	438.1 −3° 37°	438.0 −3° 50
308	479.7 +12° 30°	457.5 +2° 6°	441.0 −0° 4°			441.3	442.0 +0° 3°	442.3 +0° 16°	442.2 +0° 18°	440.0 −3° 39°	439.7 −3° 50°
307	480.5 +37° 50°	+5° 5°				442.1	442.1 −0° 4°	442.6 +0° 18°	442.7 +0° 22°	440.1 −2° 30°	439.8 −2° 50
306	475.0 +38° 50					442.5	442.4 −0° 3°	442.8 +0° 17°	442.9 +0° 21°	439.8 −2° 28°	440.3 −2.7 50
305	471.0 +32° 50°					442.8	441.2 −0° 3°	441.5 0.0 18°	441.5 +0° 21°	440.5 −3° 30°	440.5 −3° 50°
304	455.4 +30° 50°		441.0 0.0 0.0 446.4			441.0	443.4 +0° 2°	443.8 +0° 16°	443.8 +0° 19°	441.4 −0° 24°	441.4
303	470.4 +12° 30		+3° 15°			443.2	444.1 +0° 2.0	444.0 +0° 15°	444.0 +0° 19°	442.6 −1° 34°	−1° 50°
302	454.1 +26° 50° 449.6	447.1	445.5 0.0 0.0			444.4	445.4 −0° 5°	445.5 −0° 20°	445.5 −0° 22°	442.9 −1° 25	442.6
301	474.8 +8° 50° +4° 39°	453.0 +1° 9°	445.1 +0° 5°			445.3	445.3 +0° 4°	446.3 +0° 20	445.4 +0° 20	441.9 −2° 25	−2° 40
300	+29.3 50°	+7° 7°	0.0 0.0			445.1	+0° 3°	+0° 17°	+0° 20°	−3° 30°	

Note · see back of book for stations – 311+50 – 312+00 – 313+00 – 313+35.2 – 314+00 – 314+83.7 315+00

		Top Bank	Bottom Bank	Road	Road	Road	Road	Top Bank	Toe
322	439.7 / 440.2 / +3.5 / 50				11	436.4 / 436.5 / −0.2 / 9	436.5 / 436.3 / +0.1 / 27		436.4 / +0.2 / 49
321	436.9 / 437.5				+0.4 / 11	436.1 / 436.5 / +0.4 / 8	436.9 / 436.9 / +0.8 / 25		437.0 / +0.9 / 49
320	+0.1 / 50				10	437.0 / 436.9 / −0.1 / 9	437.0 / 0.0 / 25		437.3 / +0.3 / 48
319	437.5 / 0.0 / 50				11 Fence	437.5 / 436.9 / −0.6 / 11	437.1 / 437.1 / −0.4 / 27		437.4 / −0.1 / 46 Fence
318	438.1 / +0.6 / 50				11 Fence	437.5 / 437.3 / −0.2 / 9	437.5 / 0.0 / 24		437.5 / 0.0 / 45 Fence
317	438.0 / +0.2 / 50				Cy. Water Co. Tank	437.8 / 438.0 / +0.2 / 8	438.0 / 438.0 / +0.2 / 24	43 Fence	436.7 / −1.1 / 50
316	457.0 / +12.0 / 35				0.0 / 11	438.9 / 439.0 / +0.1 / 7	439.0 / 439.0 / +0.1 / 22	439.0 / +0.1 / 29	437.0 / −1.9 / 34
Special Section 315						443.9 / 442.8 / −1.1 / 3 Top Bnk	438.9 / 438.9 / −5.0 / 7 Bot. Bnk.	438.4 / 438.4 / −5.6 / 13 Rd.	438.6 / 438.6 / −5.3 / 24 Rd.
314+83.7	459.3 / 19.2 / 32	448.6 / +0.2 / 7	00 / 00						439.8 / −5.2 / 28 Top Bnk
314+54 / 314	464.3 / +29.5 / 78	449.5 / +14.7 / 48	439.4 / +4.6 / 41	439.4 / +4.6 / 37	440.0 / +5.2 / 26	440.0 / +5.2 / 22	440.0 / +0.1 / 13		435.6 / −9.4 / 50
313+35.2	Top Bnk	Bot. Bnk	Rd.	Rd.	Rd.	Top Bnk	Bot. Bnk		
Special Section 313	+27.7 / 59.0	+10.0 / 34.0	+4.0 / 32.0	+4.2 / 27.0	+4.7 / 15.0	+4.7 / 9.0	440.0 / +0.4 / 50		
				Rd.	Rd.	Top Bnk			
312	+16.8 / 35.0	+9.4 / 10.0	0.0 / 7.0						
311+50									

439.0	439.2 / +0.2 / 3.0	439.7 / +0.2 / 12.0	439.4 / +0.4 / 18.0	435.8 / −3.2 / 26.0		

Sta.	Left	Fence	Road	Road		Fence
334 ✓	439.5 +5.8 / 50 450.6	0.0 0.0 Top Bnk	444.8 (445.5)	441.6 −3.2 / 4 Bot. Bank; 442.2 −2.6 / 11	442.8 443.0 −2.0 / 30	442.3 −2.5 / 44
10 436.6 Toe of ridge (L)						
333 ✓	+5.2 / 50 447.3		441.6 (442.3)	440.6 441.3 −1.0 / 11	440.1 −1.5 / 28	438.6 −3.0 / 45
332 ✓	447.0 431.3 +8.2 / 50	11	439.0	439.4 +0.4 / 12	439.2 +0.2 / 26	437.6 −1.4 / 46
331 ✓	444.5 433.0 +5.9 / 50	13	438.6	438.6 0.0 / 6	438.5 −0.1 / 24	436.7 −1.9 / 46
330 ✓	443.2 433.0 +5.3 / 50	14	437.9 (438.2)	438.2 +0.3 / 6	438.2 +0.3 / 22	436.3 −1.6 / 46
329 ✓	439.8 431.5 +4.1 / 50	14	435.4	435.2 −0.2 / 6	435.4 0.0 / 21	435.4 0.0 / 46
328 ✓	435.8 +0.6 / 50	13	435.2	435.2 0.0 / 10	435.0 −0.2 / 26	434.5 −0.7 / 48
327 ✓	435.7 434.0 +1.0 / 50	13	434.7 (435.1)	434.7 0.0 / 6	434.7 0.0 / 26	435.9 +1.2 / 46
150 Small ridge (Toe of slope) (L)						
326 ✓	+0.3 / 50 434.9	12	434.6 (434.0)	434.7 435.1 +0.1 / 9	435.0 +0.4 / 26	435.4 +0.8 / 49
325 ✓	435.7 436.8 +1.2 / 50	12	434.5 (436.6)	434.6 435.7 +0.1 / 11	434.9 436.0 +0.4 / 27	435.9 +1.4 / 48
324 ✓	436.7 437.0 +1.6 / 50	11	435.1	435.9 436.2 +0.8 / 11	435.9 436.2 +0.8 / 28	436.5 +1.4 / 44
322+92	439.8 440.3 +3.9 / 50	11	435.9 (436.0)	435.8 436.2 −0.1 / 11	436.1 +0.2 / 30	436.1 +0.2 / 49

Barn

Cow Corral

Toe of slope

Very level from sta. 317–334

						Fence
		479.6		478.3	478.5	
	+ 82	+0.3 / 50		-1.0 / 20.5	-0.8 / 3.5	
	+ 15.5	478.4 C.6 & E. Pole 2 Hot line		478.7	476.2	
345		-0.3 / 50		-1.0 / 44	-3.5 / 14.5 Bot. ditch	1.9
		473.6		472.7	472.2	
344		-0.1 / 50		-1.0 / 10.5	-1.5 / 8.8 Bot. ditch	1.8
		468.8				
343		+0.2 / 50				1.8
		465.5				
342		+0.9 / 50				1.5
		464.1			462.5	
341		+3.2 / 50			+1.6 / 42 Toe of slope	1.5
	462.4	458.9	456.5	452.4	455.0	
340	+6.9 / 50	+3.4 / 40	+1.0 / 22.5 Top wash	-3.1 / 14 Bot wash	-0.5 / 8.8 Top wash	1.5
	462.6		454.0	450.2	452.8	
339	+9.9 / 50		+1.3 / 19.5 Top wash	-2.5 / 13 Bot. wash	+0.1 / 7 Top wash	1.5
		461.4			454.2	
338		+12.3 / 50			+5.1 / 33 Toe of slope	7
		458.9				
337	62 Fence	+13.3 / 50				
		454.0				
336		+11.0 / 50				
		450.2				
335		+8.2 / 50		70'	441.7 Toe of slope	-5.3 / 10 Toe of slope

		Road	Road	Bot. Bnk	Top Bnk	Fence
479.3		479.4	479.3	479.2	480.1	482.8 / 483.6
		+0.1 / 7	0.0 / 21	-0.1 / 24.5	+0.8 / 33	+3.5 / 44 / +4.3 / 50
479.7		480.6	479.3	479.1	481.8	485.1
		+0.9 / 6	-0.4 / 20	-0.6 / 23.5	+2.1 / 28	+5.4 / 56
473.7		474.9	475.2	475.1	474.9	478.5	482.9
		+1.2 / 3 Top Bnk	+1.5 / 7 Rd.	+1.4 / 20	+1.2 / 25.6	+4.8 / 32.0	+9.2 / 55.6
468.6	468.1	469.8	470.0	470.2	469.9	473.6	478.5
	-0.5 / 3	+1.2 / 8	+1.4 / 11 Rd	+1.6 / 25	+1.3 / 31	+5.0 / 35.5	+9.9 / 55.5
464.6	464.9	464.6	465.9	466.2	465.9	469.8	474.3
	+0.3 / 7.5	-0.3 / 9.5 small ditch	+1.3 / 13.5	+1.6 / 30	+1.3 / 34.5	+5.2 / 38	+9.7 / 56.5
460.9		461.5	461.4	461.1	465.5	469.1
		+0.6 / 19	+0.5 / 35	+0.2 / 39	+4.6 / 44	+8.2 / 57
455.5		456.8	456.9	456.5	461.6	465.5
		+1.3 / 21	+1.4 / 36	+1.2 / 39.5	+6.1 / 43	+10.0 / 47
452.7		452.3	451.7	451.4	455.9	460.1
		-0.4 / 22	-1.0 / 35	-1.3 / 41	+3.2 / 46	+7.4 / 58
449.1		448.0	447.9	448.0		451.4
		-1.1 / 29	-1.2 / 42	-1.1 / 48		+2.3 / 57
445.6		443.7	444.4			445.2
		-1.9 / 29 Toe of slope	-1.2 / 50			-0.4 / 57
443.0	441.7	441.4	441.7			441.6
	-1.3 / 5 Toe of slope	-1.6 / 23	-1.3 / 40			-1.4 / 55
442.0		441.4	441.9			440.0
		-0.6 / 12	-0.1 / 23			-2.0 / 44

						Fence		Road	Road				Fence
		460.2					459.3						
		+0.9 / 50					460.0	459.0 / -0.3 / 76	459.0 / -0.3 / 22	458.3 / -1.3 / 38	458.1 / -1.2 / 45	458.9 / -0.4 / 53	
356			~~R.5' R line~~			3							
+58	C.G.+E. Pole		2.5' R. line										
		0.0 / 50					460.2		-0.6 / 21	-0.9 / 34			-1.3 / 37
355						3							
		461.1 / +1.2 / 50		461.1 / +1.2 / 4			459.9	459.3 / -0.6 / 4	459.0 / -0.9 / 21	458.8 / -1.1 / 38			458.5 / -1.4 / 37
354						2							
		+1.6 / 50 462.7		462.3 / +1.2 / 3			461.1	461.3 / +0.2 / 7	460.7 / -0.4 / 17	460.8 / -0.3 / 38	461.7 / +0.6 / 43	460.7 / -0.4 / 34 / 460.2 / -0.9 / 56	460.9 / -0.2 / 57
353						1.5							
		-0.1 / 50 464.6					464.9	465.3 / +0.6 / 6	463.8 / -0.9 / 15	463.5 / -1.2 / 36			462.8 / -1.9 / 58
352						2							
+15	C.G.+E. Pole		2' R line										
		+1.8 / 50 467.4		466.8 / +1.2 / 4			465.6		464.8 / -0.8 / 18	464.6 / -1.2 / 33	464.4 / -1.2 / 70		
351						3							
		+1.1 / 50 467.4					466.3	465.4 / -0.9 / 70	465.8 / -0.5 / 15	465.8 / -0.5 / 28	465.9 / -0.4 / 35	466.3 / 0.0 / 37	467.2 / +0.9 / 56
350						3							
		469.8 / +1.2 / 50					468.6	468.1 / -0.5 / 7	468.6 / 0.0 / 12	468.7 / +0.1 / 25	468.6 / 0.0 / 33	469.9 / +1.3 / 42	470.3 / +1.7 / 57
349 ✓													
		+1.2 / 50 473.6					472.4	472.7 / +0.3 / 6	472.7 / +0.3 / 12	472.8 / +0.4 / 25			473.1 / +0.7 / 57
348 ✓													
		476.5 / +0.5 / 50		475.3 / -0.7 / 19.5		2	476.0		476.0 / 0.0 / 7	476.3 / +0.3 / 22	476.0 / 0.0 / 27.5 Gulley	476.7 / +0.2 / 31 Break	476.3 / +0.3 / 44 / 478.0 / +2.0 / 55
347 ✓	67 Fence												
		+0.5 / 50 479.5		478.0 / -0.2 / 19	478.5 / -0.5 / 1.5		479.0		479.0 / 0.0 / 8	478.9 / -0.1 / 23	479.8 / +0.8 / 35	482.5 / +3.5 / 45.5	483.3 / +4.3 / 55
346 ✓													

Sta.						Fence
369			450.6 (+0.1 / 16)	450.9 (+0.7 / 4)		
368			452.5 (+0.2 / 17)	452.6 (+1.0 / 10)		
367			453.3 (+0.7 / 18)	453.5 (+0.9 / 7)		
366			455.2 (+0.9 / 19) Tree	455.5 (+1.2 / 6)		
365			457.1 (+1.0 / 19) Tree	457.4 (+1.3 / 8)		
364		458.6 (+0.5 / 50)		459.0 (+0.9 / 8)		
		- Euc. Grove -				
363		460.3 (+0.9 / 50)		460.9 (+1.5 / 9)		
		Start of row of Euc. trees 9' L				
	+25					
362		462.5 (+1.0 / 50)	462.3 (+0.8 / 8)	19 Tree		
	+92	466.1 (+1.3 / 50)		465.4 (+0.6 / 8)		4
360		465.7 (+1.7 / 50)		464.7 (+0.2 / 8)		4
359		463.2 (+1.2 / 50)	462.1 (+0.1 / 11)	462.7 (+0.2 / 5)		4
358		461.0 (+0.6 / 50)	460.5 (+0.1 / 13)	461.1 (+0.7 / 6)		3
357		460.0 (+0.6 / 50)				3

			Road	Road		Fence
450.2			450.5 (+0.3 / 4)	450.5 (+0.2 / 28)		450.2 (0.2 / 57)
451.6			452.0 (+0.4 / 3)	452.0 (+0.4 / 26)		450.9 (-0.9 / 57)
452.6			452.6 (0.0 / 6)	452.3 (-0.3 / 28)		451.8 (-0.8 / 55)
454.3			454.3 (0.0 / 9)	453.8 (-0.5 / 29)		453.5 (-0.8 / 55)
456.1			456.1 (0.0 / 9)	455.6 (-0.5 / 29)		455.3 (-0.8 / 55)
458.1	458.4 (+0.3 / 2)	457.5 (-0.6 / 4)	457.7 (-0.4 / 7)	457.1 (-1.2 / 28)		457.1 (-1.0 / 55)
459.4			459.4 (0.0 / 3)	459.0 (-0.4 / 25)		458.5 (-0.9 / 56)
461.5			461.2 (-0.3 / 12)	460.3 (-1.2 / 31)		55
464.8			464.6 (-0.2 / 44)	461.8 (-3.2 / 68)		461.4 (-3.4 / 72)
464.0			463.3 (-0.2 / 24)	462.9 (-1.1 / 44)		462.5 (-1.5 / 56)
462.0			461.8 (-0.2 / 22)	460.9 (-1.1 / 34)		460.4 (-1.6 / 56)
	Row of Pepper trees from sta. 356+50 - 360+92 9' R					
460.4			460.3 (-0.1 / 24)	459.5 (-0.9 / 45)		460.3 (-0.1 / 57)
459.4			459.2 (-0.2 / 23)	458.5 (-0.9 / 43)	458.6 (-0.8 / 50)	

									Road	Road		Fence	
379 ✓✓			$-\frac{3^8}{50}$ 425.5			7' Tree	429.3 ✓		429.5 $+\frac{0^2}{3}$	429.8 $+\frac{0^5}{22}$		431.6 $+\frac{2^3}{33}$	431.7 $+\frac{2^4}{50}$
378 ✓✓			$-\frac{3^0}{50}$ 428.8			7' Tree	431.8 ✓		$+\frac{0^4}{3}$ 432.2	432.6 $+\frac{0^8}{23}$	434.0 $+\frac{2^2}{28}$	434.2 $+\frac{2^4}{32}$ Fence	434.6 $+\frac{2^8}{50}$
377 ✓✓			$-\frac{1^3}{50}$ 435.6			3' Tree	436.9 ✓		$-\frac{0^4}{4}$ 436.5	$-\frac{0^6}{25}$ 436.3		$+\frac{0^3}{35}$ 437.2	
			Row of Euc. trees 3' L line									$-\frac{4^4}{45}$ 43 4.6 ✓	
376 ✓			$+\frac{1^8}{50}$ 440.8		$+\frac{1^4}{14}$ 440.4		439.0 ✓		437.4 $-\frac{1^6}{7}$	437.2 $-\frac{1^8}{25}$		436.7 $-\frac{2^3}{37}$	436.4 $-\frac{2^6}{42}$
375 ✓			$+\frac{3^9}{50}$ 441.5				437.6 ✓		437.5 $-\frac{0^1}{10}$	437.7 $+\frac{0^1}{25}$	437.0 $-\frac{0^6}{34}$	437.8 $+\frac{0^2}{37}$	437.6 $\frac{0^0}{45}$
										$+\frac{7^0}{75}$ 447.9	$+\frac{4^0}{62}$ 444.9	$+\frac{4^0}{50}$ 444.9	
374 ✓			$+\frac{2^0}{50}$ 442.9		$-\frac{0^3}{5}$ 440.6 Rd		440.9 ✓		440.9 $\frac{0^0}{9}$	440.9 $\frac{0^0}{25}$	441.9 $+\frac{1^0}{28}$	442.9 $+\frac{2^0}{33}$	
373 ✓	$-\frac{7^9}{66}$ 441.8	$-\frac{5^3}{40}$ 444.4	$-\frac{7^0}{39}$ 442.7 Rd	$-\frac{5^3}{21}$ 444.4 Rd.	$-\frac{3^4}{16}$ 446.3		449.7 ✓	Intersection of Roads	$-\frac{0^5}{4}$ 449.2	$-\frac{0^6}{16}$ 449.1	453.7 $+\frac{4^0}{21}$	458.0 $+\frac{8^3}{40}$	
+30				$-\frac{4^0}{36}$			451.3		$\frac{0^0}{5}$	$+\frac{0^4}{18}$	$+\frac{3^6}{24}$	$+\frac{7^7}{51}$	
372 ✓ End of Euc. Grove				$-\frac{2^1}{17}$ 448.1	$+\frac{0^2}{1}$ 450.4		450.2 ✓		$+\frac{0^3}{6}$ 450.5	$+\frac{0^8}{21}$ 451.0	$+\frac{1^0}{26}$ 451.2	$\frac{9^4}{61}$ 459.6	
371 ✓					$-\frac{0^6}{15}$ 448.6		448.6 ✓		$-\frac{0^2}{7}$ 448.4	$+\frac{0^2}{25}$ 448.8	$+\frac{1^5}{47}$ 450.1	$+\frac{1^8}{55}$ 450.4	$+\frac{3^4}{59}$ 452.0 no fence
370 ✓			$-\frac{0^4}{18}$ 448.6	$-\frac{0^6}{10}$ 448.4	$+\frac{0^2}{4}$ 449.2		449.0		$+\frac{0^1}{6}$ 449.1	$+\frac{0^2}{28}$ 449.2		$-\frac{0^8}{57}$ 448.2	

				Fence				Road	Road		Fence
392	$-0^{4}/50$ 402.9			22	$-1^{0}/6$ 402.3	403.3		$+0^{3}/4$ 403.6	$0^{0}/20$ 403.3	$-1^{2}/24$ 402.1	$-1^{0}/28$ 402.3
391	$-0^{6}/50$ 403.2			19	$-1^{3}/6$ 402.5	403.8		$+0^{1}/3$ 403.9	$-0^{3}/20$ 403.5	$-1^{5}/26$ 402.3	$-1^{4}/30$ 402.4
390	$-2^{5}/50$ 403.6	$-0^{6}/18$ 405.5		17		406.1		$+0^{2}/3$ 406.3	$-0^{5}/23$ 405.6	$+3/27$ 406.4	$+2^{9}/32$ 409.0 $-0^{5}/44$ 405.6 $-0^{1}/52$ 406.0 Fence
389	$-1^{3}/50$ 406.4			407.9 $+0^{2}/18$	408.6 $+0^{9}/12$	408.4 $+0^{7}/5$	407.7	$+0^{6}/3$ 408.3	$+0^{7}/23$ 408.4		$-1^{2}/70$ 406.5
388	$-0^{7}/50$ 407.4			18	8 Tree	408.4 $+0^{3}/1$	408.1	$+0^{3}/3$ 408.4	$+0^{3}/23$ 408.4		$+0^{4}/31$ 408.5
387	$+0^{8}/50$ 409.3			15	$+0^{3}/1$ 408.8		408.5	$0^{0}/3$ 408.5	$+0^{2}/24$ 408.7		$+0^{7}/33$ 409.2
386	$+1^{4}/50$ 410.9	$+0^{6}/1$ 410.1		15'	6' Tree Line		409.5	$+0^{2}/3$ 409.7	$+0^{1}/25$ 409.6		$+1^{3}/33$ 410.8
385	$+1^{1}/50$ 412.3	$+0^{7}/1^{0}$ 411.9 Top Bank		17'	6' Tree Line		411.2	$0^{0}/3$ 411.2	$-0^{2}/23$ 411.0		412.0 $+0^{8}/30$
384	$+7^{0}/50$ 419.7			17'	8' Tree Line		412.7	$0^{0}/4^{0}$ 412.7	$0^{0}/23$ 412.7		413.2 $+0^{5}/33$
383	$+0^{5}/50$ 414.5			17'	8' Tree Line		414.0	$0^{0}/4$ 414.0	$0^{0}/22$ 414.0		$+1^{2}/31$ 415.0
382	$+0^{2}/50$ 415.5			17	8 Tree Line		415.3	$-0^{4}/4$ 414.9	$0^{0}/23$ 415.3		$+0^{7}/31$ 416.0
381	$0^{0}/50$ 418.7				7 Tree		418.7	$+0^{4}/4$ 419.1	$+0^{6}/22$ 419.3		$+0^{6}/32$ 419.3 Tree
380	$-0^{9}/50$ 423.8				$+1^{0}/7$ 425.7 Tree		424.7	$-0^{5}/4$ 424.2	$-1^{0}/23$ 423.7	$+0^{6}/24$ 425.3	$+0^{8}/31$ 425.5 Tree

								Road	Road		Fence
404 ✓	+3.6 / 50	435.8	+1.3 / 12°	433.5	+0.4 / 10	432.6	432.6 2	+0.1 / 3°	432.3	−0.2 / 16	430.2	−2.0 / 41	427.2	−5.0 / 47
403 ✓	+4.0 / 50	435.7	+1.9 / 6° Top	433.6	0.0 / 2°	431.7	431.7 432.2	+0.3 / 2°	432.0	+0.2 / 16	431.9	−1.0 / 38° Top	430.7	−4.8 / 46°	426.9
402 ✓	+4.3 / 50	435.9	+1.6 / 6° Top	433.2	0.0 / 2°	431.6	431.6 432.0	+0.2 / 2°	431.8	+0.1 / 16	431.7	−1.0 / 36 Top	430.6	−4.8 / 45 Bottom	426.8
401 ✓	+3.7 / 50	434.2	+1.6 / 5° Top	432.1	0.0 / 3° Bott	430.5	430.5 431.0	+0.2 / 3°	430.7	+0.1 / 16	430.6	−0.6 / 35 Top	429.9	−5.1 / 45 Bottom	425.4
400 ✓	+3.8 / 50	432.8	+1.0 / 4° Top	430.0	−0.2 / 2° Bottom	428.8	429.0	+0.2 / 2°	429.2	+0.2 / 16	429.2	−0.7 / 34 Top	428.5	−4.9 / 46	424.1
399 ✓	+4.0 / 50	431.3	+1.6 / 12 Top	428.9	−0.2 / 2°	427.1	427.3	+0.2 / 2°	427.5	+0.1 / 16	427.4	−0.4 / 35° Top	426.9	−4.7 / 44° Bott	422.6
398 ✓	+4.8 / 50	429.9	+2.3 / 13 Top	427.4	0.0 / 2°	425.1	425.1 424.9	+0.2 / 2°	425.3	0.0 / 15	425.1	−0.2 / 27 Top Bank	424.9	−5.0 / 44 Bottom Bank	420.1
397 ✓	+5.8 / 50	428.2	+3.0 / 11° Top. Bank	425.4	0.0 / 1°	422.4	422.4	−0.3 / 5	422.1	−0.3 / 16	422.1			−0.9 / 30	421.5
+53	2.0 / 19 Fence						422.7	−0.8 / 3		−1.4 / 16				29	
396 ✓	5.5 / 50 Lawn	425.0	+4.0 / 22	423.5	+3.3 / 12	422.8	419.5	+0.1 / 4	419.6	+0.1 / 17	419.6	419.5	0.0 / 23	418.5	−1.0 / 28
395 ✓	+4.0 / 50	419.3	+4.7 / 24	420.0	+3.3 / 11	418.6	416.0	+0.6 / 4	415.9	+0.5 / 19	415.8			415.9	+0.6 / 27
			12 Tree line												
394 ✓	+3.0 / 50	411.1	+2.3 / 12	410.4	+0.6 / 6	408.7	408.1	+0.5 / 5	408.6	+0.6 / 16	408.7	408.2	+0.1 / 22	409.3	+1.2 / 29
393 ✓	+0.8 / 50	404.0					403.4 2	+0.0 / 4	403.4	+0.4 / 17	403.6	−0.9 / 50	402.3		

416 ✓	$\frac{-4^{4}}{50}$ 412.6			
+42 ✓	$\frac{-4^{8}}{50}$ 411.0			
415 ✓	$\frac{-0^{7}}{50}$ 415.8	$\frac{+0^{5}}{8^{0}}$ 417.0		
414 ✓	$\frac{+1^{1}}{50}$ 420.8	$\frac{+1^{0}}{5^{0}}$ 420.7		
413 ✓	$\frac{+2^{5}}{50}$ 420.9	$\frac{+1^{6}}{5^{0}}$ 420.0		
412 ✓	$\frac{+1^{6}}{50}$ 417.4	$\frac{+0^{6}}{4^{0}}$ 416.4		
411 ✓	$\frac{+1^{0}}{50}$ 417.0	$\frac{+0^{4}}{5^{0}}$ 416.4		
410 ✓	$\frac{+2^{0}}{50}$ 420.0	$\frac{+1^{1}}{5^{0}}$ 419.1	$\frac{0.0}{2^{0}}$ 418.0	
409 ✓	$\frac{+2^{0}}{50^{0}}$ 421.8	$\frac{+1^{4}}{6^{0}}$ 421.2	$\frac{0.0}{2^{0}}$ 419.8	
408 ✓	$\frac{+2^{3}}{50}$ 425.2	$\frac{+1^{3}}{6^{0}}$ 424.2	$\frac{0.0}{2^{0}}$ 422.9	
407 ✓	$\frac{+2^{8}}{50^{0}}$ 429.2	$\frac{+1^{9}}{5^{0}}$ 428.3	$\frac{0.0}{0.0}$ 426.4	
406 ✓	$\frac{+3^{5}}{50^{0}}$ 432.1	$\frac{+2^{0}}{5^{0}}$ 430.6	$\frac{-0^{1}}{2^{0}}$ 428.5	
405 ✓	$\frac{+4^{1}}{50}$ 434.4	$\frac{+2^{0}}{5^{0}}$ 432.3	$\frac{0.0}{2^{0}}$ 430.3	

417.5 0	$\frac{-0^{7}}{17}$ 416.3	$\frac{-0^{3}}{38}$ 416.7	$\frac{+1^{7}}{50}$ 418.7	
415.8 ~~411.3~~	$\frac{-0^{5}}{16}$ 415.3	$\frac{-0^{8}}{41}$ 415.0	$\frac{+1^{2}}{50}$ 417.0	
416.9 5	$\frac{+0^{3}}{5^{0}}$ 416.8	$\frac{+0^{1}}{50}$ 416.6		
419.7 ~~420.0~~	$\frac{+0^{1}}{2^{0}}$ 419.8	$\frac{+0^{5}}{18}$ 420.2	$\frac{+0^{1}}{45}$ 419.8	
418.9 4	$\frac{+0^{5}}{4^{0}}$ 418.9	$\frac{+0^{4}}{19}$ 418.8	$\frac{+0^{1}}{50}$ 418.5	
415.8 ~~416.1~~	$\frac{+0^{2}}{5^{0}}$ 416.0	$\frac{+0^{2}}{20}$ 416.0	$\frac{-1^{6}}{50}$ 414.2	
416.0 ~~419.0~~	$\frac{-0^{1}}{3^{0}}$ 415.9	$\frac{-0^{2}}{18}$ 415.8	$\frac{-0^{3}}{50}$ 415.7	
418.5 0	$\frac{-0^{1}}{2^{0}}$ 417.9	$\frac{-0^{2}}{20}$ 417.8	$\frac{-1^{7}}{50^{0}}$ 416.3	
419.8 420.5	$\frac{0.0}{5^{0}}$ 419.8	$\frac{+0^{1}}{20}$ 419.9	$\frac{-0^{4}}{50}$ 419.4	
422.9 423.6	$\frac{-0^{2}}{3^{0}}$ 422.7	$\frac{+0^{2}}{19}$ 423.1	$\frac{-0^{4}}{50}$ 422.5	
426.4 ~~426.5~~	$\frac{0.0}{3^{0}}$ 426.4	$\frac{+0^{1}}{18}$ 426.5	$\frac{-0^{8}}{50}$ 425.6	
428.6 ~~429.0~~	$\frac{+0^{1}}{2^{0}}$ 428.7	$\frac{+0^{2}}{18}$ 428.8	$\frac{-1^{2}}{50}$ 427.4	
430.8 3 ✓	$\frac{+0^{2}}{2^{0}}$ 430.5	$\frac{+0^{3}}{17}$ 430.6	$\frac{-1^{0}}{41}$ 429.3	$\frac{-2^{5}}{48}$ 427.8

428	$\frac{-27}{50}$	403.5			
427	$\frac{-04}{50}$	404.0			
426 ✓	$\frac{-10}{50}$	403.9			
425 ✓	$\frac{+08}{49}$	406.5	$\frac{-12}{40}$	404.5	
424 ✓	$\frac{-06}{50}$	405.2			
423 ✓	$\frac{-06}{50}$	405.1			
422 ✓	$\frac{+05}{50}$	406.4			
421 ✓	$\frac{+12}{50}$	407.2			
420 ✓	$\frac{+06}{50}$	407.1			
419 ✓	$\frac{-09}{50}$	406.7			
418 ✓	$\frac{-21}{50}$	407.4			
417 ✓	$\frac{-30}{50}$	410.1			

406.2	$\frac{+31}{28}$	409.3	$\frac{+35}{50}$	409.8	
404.4	$\frac{+24}{25}$	406.8	$\frac{+37}{50}$	408.1	
404.9	$\frac{+02}{50}$	405.1	$\frac{+11}{21}$	406.0	$\frac{+38}{50}$ 408.7
405.7	$\frac{+04}{40}$	406.1	$\frac{+11}{23}$	406.8	$\frac{+45}{50}$ 410.2
405.8	$\frac{+10}{10}$	406.8	$\frac{+13}{29}$	407.1	$\frac{+46}{50}$ 410.4
405.7	$\frac{+03}{60}$	406.0	$\frac{+04}{22}$	406.1	$\frac{+18}{50}$ 407.5
405.9	$\frac{-01}{10}$	405.8	$\frac{0.0}{27}$	405.9	$\frac{+15}{50}$ 407.4
406.5	$\frac{+01}{80}$	406.1	$\frac{+01}{26}$	406.1	$\frac{+10}{50}$ 407.0
406.5	$\frac{+02}{110}$	406.7	$\frac{+02}{290}$	406.7	$\frac{-01}{50}$ 406.4
407.6	$\frac{-07}{60}$	406.9	$\frac{+02}{250}$	407.4	$\frac{-08}{50}$ 406.8
409.5	$\frac{0.0}{70}$	409.5	$\frac{+08}{24}$	410.3	$\frac{+23}{50}$ 411.8
413.1	$\frac{+02}{50}$	413.3	$\frac{-01}{80}$	413.0	$\frac{+12}{26}$ 414.3 $\frac{+20}{50}$ 415.1

441	+13 / 35 — 396.7	+13 / 17 — 396.7	+07 / 13 — 396.1	-02 / 10 — 395.12
440		+21 / 15 — 397.7	+15 / 11 — 397.1	+04 / 7 — 397.0
439	+40 / 33 — 400.1	+40 / 15 — 400.1	+40 / 10 — 400.1	+04 / 30 — 396.5
438	+23 / 30 — 399.2	+23 / 17 — 399.2	+21 / 11 — 399.0	+05 / 5 — 397.5
437	+15 / 30 — 398.6	+15 / 17 — 398.6	+12 / 8 — 398.3	+05 / 7 — 397.6
436		+13 / 30 — 398.9	+13 / 17 — 398.5	+10 / 7 — 398.5
435	+11 / 30 — 399.6	+11 / 17 — 399.6	+07 / 9 — 399.2	-03 / 3 — 398.2
434		+11 / 30 — 400.3	+12 / 17 — 400.4	+09 / 7 — 400.1
433		+08 / 30 — 401.0	+08 / 17 — 401.6	+07 / 4 — 400.9
432		+12 / 30 — 401.6	+12 / 17 — 401.6	+10 / 4 — 401.4
431		+12 / 30 — 402.1	+12 / 17 — 402.1	+05 / 3 — 401.4
430		+15 / 30 — 402.7	+16 / 17 — 402.8	+13 / 2 — 402.5
429		-04 / 34 — 405.1	+03 / 38 — 405.8	+03 / 12 — 405.8

395.4	+03 / 5 — 395.7	0.0 / 25 — 395.4	
395.6	+05 / 6 — 396.1	-10 / 11 — 394.6	-12 / 14 — 394.6
396.1	+12 / 6 — 397.1		+07 / 15 — 396.8
396.9	+12 / 6 — 398.1		+05 / 17 — 397.7
397.1	+14 / 5 — 398.5		+13 / 15 — 398.4
397.5	+14 / 4 — 398.9		+13 / 16 — 398.8
398.5	+11 / 4 — 399.6		11 / 16 — 399.6
399.62	+14 / 5 — 400.6		+14 / 17 — 400.6
400.2	+08 / 5 — 401.0		+08 / 18 — 401.0
400.4	+10 / 6 — 401.4		+12 / 18 — 401.6
400.9	+09 / 5 — 401.8		+03 / 19 — 401.2
401.12	+09 / 30 — 402.1		
405.5	+02 / 8 — 405.7	+19 / 9 — 402.3	+27 / 19 — 402.2

454	+12 / 30	392.6	+13 / 12	392.7	+10 / 50	392.4	+03 / 30	391.7
453	+22 / 30	392.3	+22 / 12	392.3	+14 / 50	391.5	+02 / 30	390.3
452	+21 / 310	392.2	+21 / 130	392.2	+15 / 60	391.6	+01 / 40	390.2
451	+26 / 31	393.0	+26 / 13	393.0	+21 / 70	392.5	+04 / 40	390.8
450	+19 / 380	393.7	+19 / 140	393.7	+16 / 80	393.4	+04 / 50	392.2
449	+19 / 32	394.4	+19 / 140	394.4	+13 / 80	393.8	+05 / 50	393.0
448	+25 / 33	395.1	+25 / 150	395.1	+16 / 80	394.2	+06 / 50	393.2
447	+23 / 338	395.9	+23 / 158	395.9	+15 / 100	395.1	+03 / 70	393.9
446			+04 / 34	395.8	+09 / 165	395.8		
445			+18 / 355	396.5	+16 / 18	396.5	+06 / 10	395.43
444	+24 / 35	396.12	+24 / 172	396.12	+16 / 11	395.4	+03 / 70	394.1
443	+23 / 352	396.6	+23 / 180	396.6	+15 / 130	395.8	+01 / 100	394.14
442	+20 / 34	396.6	+20 / 165	396.6	+14 / 12	396.0	+02 / 90	394.8

391.9					-02 / 29	391.2
390.1					+03 / 280	390.4
390.1					-02 / 27	389.9
390.4					+05 / 25	390.9
391.8					+06 / 24	392.4
392.5					+10 / 22	393.5
392.6					+01 / 210	392.7
393.6					+11 / 20	394.7
395.94					+05 / 18	396.9
394.7					+07 / 17	394.0
393.8					-01 / 25	393.7
394.53		+02 / 70	394.5	+3 / 150	+27 / 35	397.10
394.6		+02 / 80	394.8	+20 / 16	396.6	+09 / 50	395.0

465 ✓		+13 / 28 384.7	+13 / 10 384.7	+07 / 4° 384.1	
464 ✓		+14 / 28 385.4	+14 / 10 385.4	+08 / 4° 384.8	
463 ✓	+13 / 28 386.8	+13 / 10 386.8	+05 / 3° 386.0	−03 / 1° 385.2	
462 ✓		+10 / 28 387.6	+10 / 10° 387.6	+05 / 3° 387.1	
461 ✓		+17 / 28 388.0	+17 / 10 388.0	+10 / 3° 387.3	
460 ✓		+22 / 28 388.7	+22 / 10 388.7	+13 / 3° 387.8	
459 ✓		+14 / 28 390.0	+14 / 10 390.0	+06 / 3° 389.2	
458 ✓		+13 / 28 391.2	+13 / 10 391.2	+11 / 3 391.0	
457 ✓		+14 / 28 392.2	+14 / 10 392.2	+09 / 3° 391.7	
456 ✓		+12 / 28 392.4	+12 / 10 392.4	+06 / 2 391.8	
+37		+01 / 28	+01 / 10		
455 ✓		+09 / 28 392.9	+09 / 10 392.9		

383.4	384.6 / +12 / 5	384.6 / +12 / 12			
384.0	+06 / 3° 384.6	+05 / 9° 384.5			
385.5	+08 / 3 386.3	+02 / 15 385.7			
386.6	−05 / 3 386.1	−02 / 4 386.4	−04 / 13 386.2		
386.3	−01 / 1° 386.2	+08 / 5 387.1	+04 / 7° 386.7	+04 / 13 386.7	
386.5	+08 / 4 387.3	+05 / 13 387.0			
388.6	0.0 / 1° 388.6	+06 / 3 389.2	+01 / 18° 388.7		
389.9	+02 / 3° 390.1	+10 / 5 390.9	−04 / 10 389.5	−07 / 22° ~~389.2~~	
390.8 401.0	−04 / 2° 390.4	−12 / 20 389.6			
391.2	−02 / 3 391.0	+02 / 6 391.4	−13 / 10 389.9	−15 / 21 389.7	
403.0	−02 / 9	−12 / 20			
392.0	0.0 / 5° 392.0	+17 / 6° 393.7	+04 / 31 392.4		

491	377.8 +0.8 28	377.8 +0.8 10	
490	378.1 +0.9 28.5	378.1 +0.9 10.5	
489	378.6 +0.8 28.5	378.6 +0.8 10.5	
488	378.9 +1.0 28.5	378.9 +1.0 10.5	378.8 +0.9 30
487	378.9 +1.3 29	378.9 +1.3 11	378.3 +0.7 40
486	379.0 +1.5 29	379.0 +1.5 11	378.3 +0.8 37
485	379.4 +2.1 29	379.4 +2.1 11	378.5 +1.3 30
484	379.8 +1.2 29	379.8 +1.2 11	379.1 +0.8 3
483	380.3 +0.7 29	380.3 +0.7 11	
482	380.5 +0.6 29	380.5 +0.6 11	380.3 +0.4 42
481	380.4 +1.3 29.5	380.4 +1.3 11.5	380.1 +1.8 5
480	380.2 +0.3 27	380.2 +0.3 90	
479	380.9 +3.4 26	380.9 +3.4 10	379.5 9 +2.9 40

377.0				376.9 −0.6 30
377.2	377.2 0.0 20	377.7 377.5 +0.5 4	377.6 +0.4 27	
377.8	377.7 −0.1 10	377.7 +0.1 40	377.7 −0.1 20	
377.9	377.8 −0.1 20	378.2 +0.3 5	378 −0.1 25	
377.6	377.5 −0.1 3	378.1 +0.5 70	378.2 378.4 +0.6 25	
377.5	377.1 377.5 −0.4 80	377.8 +0.3 110	377.5 0.0 25	
377.3			+0.5 30	377.8
378.6			−0.3 30	378.3
379.6			0.0 25	379.6
379.9			+0.6 40	380.5
379.1	379.2 +0.1 20	380.0 +0.9 50	380.9 +1.8 30	
379.9	379.1 −0.8 2	378.7 −1.3 9	377.2 −2.7 13	375.6 −4.3 30
377.5	376.4 −0.1 38	376.2 −1.3 90	375.7 −1.9 10	376.2 −1.3 13	376.0 −1.5 30

	394.4	390.2	389.6	391.0	391.4	391.4										
502	+178/59	-14/39	-29/34	-06/31	-02/28	-02/10										
		394.9	389.0	389.0	389.0	388.7	389.4									
501		+58/34	-01/29	-01/27	-01/9	-04/50	+03/40									
		392.8	385.9	386.0	386.0	385.7	387.2									
+979		+63/39	-05/32	-05/28	-05/10	-08/70	+12/41									
			381.9	381.9	381.0											
499			+11/28	+41/10	+32/40											
			380.7	380.7	380.0											
498			+36/28	+36/10	+29/40											
			378.8	378.8	378.1											
497			+28/28	+29/10	+21/50											
			378.2	378.1	378.1	378.0	381.5									
496			-16/31	-17/29	-17/11	-18/80	+17/40									
+58			+74/37	-04/34	+01/28.5	+01/10.5										
				377.9	377.9	377.3										
495				+19/28.5	+19/10.5	+15/40										
				378.0	378.0	374.6										
494				+33/35	+32/17	+26/12	-01/70									
					378.0	378.0	378.1									
493					+16/29	+16/11	+17/5									
					377.8	377.8	377.4									
492					+20/28	+20/10	+16/40									

391.6						391.3	385.7	380.4	375.4	374.4						
						-03/50	-59/150	-11/33	-16/39	-17/51	RRTR					
389.1						388.7		380.8	376.3	376.1						
						-04/3	-83/34	-128/48		-130/66	RRTR					
386.5						385.6	381.2	379.9	374.5	374.3	375.5					
						-09/70	-48/90	-66/33	-120/48	-12/56	-11/61	RRTR				
377.8							374.4	372.9	372.2	372.4	372.9					
							-34/80	-49/190	-56/39	-54/47	-39/58	RRTR				
377.1							374.0	374.2		375.9						
							-31/28	-29/40		-12/50	RRTR					
376.0							374.3	374.2		375.9						
							-17/24	-18/34		-01/47	RRTR					
379.8						377.3	376.9	375.8	375.6	375.5	376.1					
						-25/70	-29/14	-48/17	-43/20	-43/29	-37/42	RRTR				
						+01/40	-13/10	-14/20		-15/39	RRTR					
376.0										376.6						
										+06/36	RRTR					
374.7							375.3	375.1		377.1						
							+06/40	+04/27		+24/31	RRTR					
376.4							375.5	374.1		377.5						
							-09/16	-23/21		+11/49	RRTR					
375.8										375.4						
										-04/30						

514	368.5	+14 / 29	368.5	+14 / 11	368.1	+10 / 30	367.1	365.2	-19 / 6	365.4	-12 / 18	367.5	+04 / 8	368.1	+10 / 38	RRTR
513	369.1	+29 / 32	369.1	+29 / 14	368.7	+25 / 70	366.2	364.8	-14 / 60	364.7	-15 / 30	367.6	+14 / 29	368.5	+23 / 38	RRTR
512	370.9	+16 / 32	370.9	+16 / 14	370.6	+13 / 80	369.3	368.8	-05 / 20	368.4	-49 / 140	363.8	-55 / 21	368.6	-07 / 38	RRTR
511	374.2	+07 / 33	374.2	+07 / 15			373.5	370.5	-30 / 22					370.2	-35 / 40	RRTR
510	377.2	+33 / 32	377.2	+33 / 14	376.5	+26 / 80	373.9	373.6	-03 / 10	373.3	-06 / 45	372.5	-14 / 25	370.8	-40 / 41	RRTR
509	380.3	+47 / 32	380.3	+47 / 14	379.8	+42 / 90	375.6	372.6	-30 / 12	372.2	-33 / 27			372.0	-35 / 42	RRTR
508	383.3	+37 / 31	383.3	+37 / 13	382.8	+32 / 80	379.8	376.0	-36 / 230	372.4	-72 / 30			374.3	-53 / 41	RRTR
507+07	386.6	+08 / 36	386.6	+08 / 16	386.5	+07 / 13	385.8	385.4	-04 / 40	373.1	-12 / 33			373.8	-120 / 36	RRTR
506	388.9	+40 / 31	388.9	+40 / 13	388.5	+36 / 80	384.9	377.2	-57 / 22	373.9	-110 / 31			374.2	-107 / 49	RRTR
505	389.1	+57 / 50	390.2	+60 / 32	390.2	+60 / 14	389.1	384.2	-34 / 70	378.1	-53 / 220	374.9	-93 / 330	374.5	-97 / 82	RRTR
504	398.1	+107 / 36	392.4	+48 / 33	392.4	+50 / 31	392.4	392.4	+50 / 13	392.2	+48 / 70	387.4	-45 / 10	389.9	-70 / 220	386.4	-119 / 275	375.5	-119 / 475	RRTR
503	410.9	+217 / 638	393.3	+42 / 48	393.3	+41 / 37	393.3	+41 / 19	393.1	+39 / 90	389.2	-33 / 80	389.9	-95 / 110	377.1	-129 / 150	376.3	-132 / 190	376.0	-150 / 220	374.0	-141 / 350	375.1	RRTR

527	362.6 +19/30	362.6 +19/12	361.8 +1/50	360.7	361.1 +04/17	363.5 +28/21	364.7 +40/33	RRTR
526	362.6 +24/30	362.6 +24/12	361.9 +17/40	360.2	361.7 +15/19	364.2 +40/26	364.9 +48/32	RRTR
525	362.9 +24/30	362.9 +24/12	362.3 +15/5	360.2	361.6 +07/19	364.0 +38/25	365.0 +48/32	RRTR
524	362.6 +12/30	362.9 +12/12	362.3 +06/62	361.7	361.6 +01/3	364.5 +28/24	365.2 +35/31	RRTR
523	362.4 +09/40	363.3 +23/31	363.3 +23/13	361.0	359.8 +02/11	362.9 +19/17	363.3 +23/22	364.7 +31/26	364.9 +44/31	RRTR
522	363.0 +14/60	364.1 +31/31	364.1 +31/13	359.6	359.3 +03/5	362.1 +15/13	364.1 +51/31	RRTR
521	360.9 +04/30	360.9 +36/31	364.1 +36/13	360.5	360.4 -01/9	361.3 +08/16	365.2 +47/25	366.1 +56/31	RRTR
520	364.5 +35/70	365.1 +41/31	365.1 +41/13	361.0	362.3 +13/20	365.1 +45/27	364.4 +59/30	RRTR
519	365.2 +21/7	365.9 +28/31	365.9 +28/13	363.1	363.0 -01/2	363.8 +07/4	363.9 +08/7	361.5 -16/13	361.8 -13/17	365.5 +24/24	366.6 +35/31	RRTR
518	367.7 +24/8	367.0 +32/31	367.0 +32/13	363.3	362.9 -04/7	366.2 +29/24	366.8 +35/30	RRTR
517	365.8 +15/60	367.6 +28/31	367.6 +28/13	364.2	364.1 -01/3	363.1 -11/5	364.1 +01/16	366.2 +20/24	367.0 +28/30	RRTR
516	367.5 +26/50	368.0 +30/32	368.0 +30/14	364.6	363.3 -13/5	363.6 -10/11	366.1 +21/23	367.4 +28/32	RRTR
515	367.5 +21/60	367.7 +27/30	367.7 +27/12	365.4	364.4 -12/5	15	364.9 -05/23	366.9 -15/29	367.6 +22/35	RRTR

540	363.3	+14 / 28.5	363.3	+14 / 10.5	362.9	+10 / 2.5	361.9	
539	363.2	+31 / 29.6	363.2	31 / 11.6	362.5	+24 / 5.7	360.1	
538	362.5	+32 / 28.4	362.6	+32 / 10.4	362.6	+24 / 3.7	359.2	
537	362.6	+33 / 28.5	362.8	+33 / 10.5	362.5	+24 / 4.0	359.3	
536	362.8	+39 / 28.5	362.8	+39 / 10.5	362.2	+36 / 5.4	358.9	
535	362.8	+30 / 28.6	362.8	+30 / 10.6	361.7	+24 / 4.7	359.8	
534	362.9	+35 / 28.6	362.9	+35 / 10.6	362.1	+24 / 4.7	359.3	
533	362.8	+28 / 28.5	362.8	+28 / 10.5	361.9	+20 / 4.0	360.1	
532	362.7	+27 / 28.6	362.7	+27 / 10.6	362.2	+18 / 4.2		
531	362.7	+24 / 28.3	362.7	+24 / 10.3	361.9	+19 / 4.2		
530	362.6	+24 / 28.5	362.6	+24 / 10.5	362.0	+16 / 4.8		
529	362.6	+25 / 29	362.6	+25 / 11	362.1	+19 / 4.5		
528		+20 / 29.8		+20 / 11.8		+15 / 4.8		

	360.7	−12 / 28	361.1	−08 / 22.9	362.0	+06 / 27.0	362.1	+ 12 / 33.0
	357.6	−16 / 2.7	358.6	0.0 / 21.0	360.1	+26 / 27.3	362.7	+35 / 32.2
	357.9	−14 / 4.3	360.9	−06 / 20.6	362.1	+29 / 27.3	363.3	+41 / 33.2
	358.3	−05 / 20	359.1	+16 / 19.0	362.3	+30 / 29.6	363.5	+42 / 33.3
	358.4	−14 / 4.0	358.6	+0.2 / 20.5	362.1	+34 / 27.4	363.1	+42 / 33.3
	358.3	−12 / 20.1	358.1	−12 / 22.0	362.0	+23 / 28.0	362.9	+31 / 33.2
	359.7	−10 / 3.0	358.9	−12 / 20.1	362.3	+27 / 27.0	362.9	+35 / 33.0
	360.1	−04 / 3.4	359.6	−12 / 21.3	359.3	+21 / 28.0	362.4	+29 / 33.2
	360.3		360.5	−05 / 20.0	362.7	−08 / 29.1	363.7	+23 / 27.2 / +32 / 33.0
	360.3		360.0	+02 / 22.0	362.8	+24 / 27.5	363.6	+34 / 33.4
	360.1		360.4	−03 / 21.7	363.0	+25 / 28.1	363.9	+35 / 32.9
	360.6		360.5	+03 / 21.1	362.2	+29 / 26.3	362.1	+38 / 32.7
				−01 / 18.2		+26 / 24		+15 / 32.2

		361.5	361.5	360.8		358.3	359.0	362.5	363.2
553		+22 / 28.5	+22 / 10.5	+15 / 4.2	359.3	-10 / 6.7	-03 / 20°	+32 / 27.2	+39 / 32.6
		361.1	361.1	360.2		358.6	358.7	362.3	363.1
552		+21 / 29.6	+21 / 11.6	+12 / 5.3	359.0	-04 / 5°	-03 / 13.8	+08 / 21.7	+33 / 27.2	+41 / 32.0
		361.2	361.2	360.5		359.2	359.9	359.8	362.5	364.8
551		+09 / 28.6	+09 / 10.6	+02 / 4.5	360.3	-11 / 7.3	-04 / 10.4	-11 / 20.6	+22 / 27.3	+25 / 33°
		361.5	361.5	360.7		360.4	360.1	361.9	362.9
550		+06 / 29	+06 / 11	+02 / 4.5	360.9	-05 / 7°	-08 / 21.3	+10 / 28.8	+20 / 33°
		361.6	361.6	361.2		360.5	362.2	362.8	
549		+06 / 29	+06 / 11	+02 / 5.5	361.0	-05 / 22.8	+12 / 27°	+18 / 33°	
		361.7	361.7	361.3		361.0	360.7	362.3	364.2
548		+05 / 28.6	+05 / 10.6	+01 / 4.8	361.2	-02 / 13.2	-05 / 22°	+11 / 26.6	+30 / 33.0
		361.7	361.7	360.9			360.2	362.2	362.9
547		+12 / 28.5	+12 / 10.5	+04 / 3°	360.5		-03 / 19.2	+17 / 26.3	+24 / 33.0
		361.8	361.8	361.3			360.1	362.2	362.8
546		+12 / 28.8	+12 / 10.8	+07 / 3.6	360.6		-05 / 19.6	+16 / 27.7	+22 / 33.0
		362.1	362.1	361.5			360.7	362.2	363.1
545		+11 / 28.5	+11 / 10.8	+05 / 4°	361.0		-03 / 19.5	+12 / 25°	+21 / 33
		362.6	362.6	362.2			361.9	362.4	363.2
544		+06 / 28.3	+06 / 10.3	0.0 / 4.6	362.2		+03 / 21°	+02 / 25	+10 / 33
		363.3	363.3				362.1	362.4	363.1
543 checked to here		+05 / 28.7	+05 / 10.7		362.8	-03 / 4.4	-07 / 19.6	-04 / 26.7	+03 / 33.0
		363.5	363.5			362.9	362.7	362.3	362.9
542		+02 / 28.2	+02 / 10.2	363.4	363.3	-04 / 6.6	-05 / 19.6	+05 / 23°	-10 / 26.9	-04 / 33°
		363.5	363.5			362.9	361.9	362.5	363.1
541		+06 / 28.6	+06 / 10.6	+05 / 4°	362.9	-05 / 2.2	-10 / 21°	-04 / 26.5	+02 / 33.0

										Top Rail
566	✓	+09 / 28.4 371.3	+09 / 10.4 371.3		370.4	+15 / 6.0 371.9	+09 / 19 371.3	-21 / 23.6 368.3	-12 / 32.8 369.2	
565	✓	+08 / 28.7 371.4	+08 / 10.7 371.4		370.6	+02 / 2.9 370.8	+15 / 6.0 372.1	0.0 / 19.8 370.6	-23 / 24.6 368.3	-13 / 32.8 369.3
564	✓	-08 / 28.7 371.3	-08 / 10.7 371.3	-13 / 6.6 370.8	+01 / 5.0 372.2	-04 / 11.5 371.1	-13 / 14.4 370.8	-18 / 18 370.3	-44 / 24.2 367.7	-32 / 32.6 368.9
563	✓	-13 / 28.7 370.9	-13 / 10.7 370.9	-17 / 6.0 370.5	+02 / 3.4 372.4	-02 / 11.2 372.0	-18 / 14 370.4	-21 / 18.2 370.1	-50 / 24 367.2	-36 / 32.8 368.6
562	✓	-04 / 28.5 369.8	-04 / 10.5 369.8	-09 / 5.5 369.3	+02 / 3.0 370.4	+01 / 17.4 370.3	-39 / 25.4 366.3			-21 / 32.7 368.1
561	✓	+23 / 29 368.4	+23 / 11 368.4	+16 / 5.2 367.7	366.1	-08 / 5.4 365.3	0.0 / 19.0 366.1	-11 / 24.5 365.0	+02 / 28.3 366.3	+11 / 32.8 367.2
560	✓	+33 / 29 367.2	+33 / 11 367.2	+23 / 4.2 366.2	363.9	-05 / 3.0 363.4	-19 / 6.4 362.0	-17 / 19.7 362.2	+17 / 26 365.6	+25 / 33 366.4
559	✓	+32 / 29.0 366.5	+32 / 11.0 366.5	+26 / 4.2 365.9	363.3	-04 / 2.7 362.9	-10 / 23 362.0	+13 / 28.5 364.6	+23 / 33 365.6	
558	✓	+15 / 28.7 365.6	+15 / 10.7 365.6	+13 / 4.0 365.4	364.1	-08 / 4.3 363.3	-32 / 20.3 360.9	-03 / 27.0 363.8	0.0 / 33.0 364.1	
557	✓	+01 / 28.6 366.4	+01 / 10.6 366.4		366.3					-14 / 32.8 364.9
556	✓	+02 / 28.8 366.1	-02 / 10.8 366.1	-06 / 4.0 365.7	366.3	+07 / 4.3 367.0	+21 / 7.0 368.4	+21 / 14.4 368.4	-25 / 23 363.8	-19 / 32.8 364.4
555	✓	+06 / 29 365.0 363.8	+06 / 11 365.0 363.8	0.0 / 4.5 364.4	364.4	+04 / 6.4 364.8	+08 / 8.6 365.2	+04 / 17.0 364.8	-16 / 22.0 362.8	-11 / 26.5 363.3 363.4
554	✓	+27 / 29 363.0	+27 / 11 363.0	+24 / 4.6 362.7	360.3	-09 / 4.2 359.4	-12 / 20.0 359.1	+22 / 27.5 362.5	+33 / 32.7 363.6	

		370.0	370.0				369.4	368.5	367.9	Top Rail 368.8	
579	✓	+02 / 28.8	+02 / 10.8		369.8		-04 / 17.0	-13 / 27.6	-19 / 29.0	-10 / 33	
		370.6	370.6				369.2	368.6		369.0	
578	✓	+16 / 29	+16 / 11		369.0		+02 / 17.0	-04 / 27.0		0.0 / 33	
		369.9	369.9				368.9	368.4		369.0	
577	✓	+09 / 28.9	+09 / 10.9		369.0		-01 / 19.3	-06 / 27.3		0.0 / 33	
		370.2	370.2	369.6			369.4	370.0	368.9	369.5	
576	✓	+05 / 29.2	+05 / 11.2	-01 / 4.2	369.7		-03 / 14.0	+03 / 18	-08 / 27.8	-02 / 33	
		370.0	370.0				367.8	368.5		369.7	
575	✓	+04 / 28.8	+04 / 10.8		369.6		-18 / 24.8	-11 / 27.3		+01 / 33	
		369.9	369.9	369.0			367.7	369.9	368.1	369.5	
574	✓	+15 / 28.8	+15 / 10.8	+06 / 2.3	368.4		-07 / 6.0	-25 / 20.0	-03 / 28.5	+11 / 33	
		369.9	369.9	369.6			368.8	370.8	368.7	369.4	
573	✓	+09 / 29.1	+09 / 11.1	+06 / 3.4	369.0		-02 / 4.6	+18 / 20.7	-03 / 29.6	+04 / 33	
		369.8	369.8	369.1			363.4	363.0	364.6	369.1	
572	✓	+36 / 29.2	+36 / 11.2	+29 / 4.8	366.2		-28 / 5.0	-32 / 10.9	-16 / 20.7	+22 / 27.4	+29 / 33
		369.8	369.8	369.3			363.0	363.7	368.2	369.1	
571	✓	+39 / 28.8	+39 / 10.8	+3.4 / 5.3	365.9		-29 / 5.6	-22 / 18.8	+23 / 26.0	+32 / 33.0	
		369.7	369.7	367.9			364.2	365.4	368.2	369.3	
570	✓	+38 / 28.7	+38 / 10.7	+20 / 4.3	365.9		-17 / 5.6	-05 / 19.6	+23 / 25.8	+34 / 33.0	
		370.0	370.0	369.3			365.7	365.3	368.3	369.3	
569	✓	+21 / 28.7	+21 / 10.7	+14 / 3.4	367.9		-22 / 10.8	-26 / 21.5	+04 / 27.6	+14 / 32.8	
		370.6	370.6			370.8	368.6			369.8	
568	✓	+05 / 28.8	+05 / 10.8		370.1	+07 / 13.0	-15 / 23.8			-03 / 32.7	
		371.2	371.2			370.8	372.0	371.6	368.7	369.6	
567	✓ ✓	+07 / 28.7	+07 / 10.7		370.5	+03 / 4.2	+15 / 7.4	+11 / 17.1	-18 / 24.3	-09 / 32.7	

593		+0.2 / 28.4		+0.6 / 10.7	366.8	+0.5 / 60		+0.4 / 18.2		+0.2 / 35	
592			0.0 / 31.3	+5.0 / 12.7	368.2	+0.4 / 10.4	+0.3 / 20				
591 +03	+0.5 / 50				367.8	+0.5 / 5.7	+0.1 / 26			-2.5 / 46	
590	+0.4 / 35				367.2					-1.7 / 32.3	
+94	+0.2 / 50				366.0	+0.3 / 3.7	+1.5 / 10	+0.6 / 16.8	+1.9 / 20.8		
589			+1.3 / 31.8	+0.8 / 10.0	364.2	+0.2 / 7.6		+2.4 / 20.2		+3.2 / 26.3	
588		+2.7 / 29.4	+2.2 / 11.4	+2.1 / 5.5	361.4	+0.1 / 14.2		+4.5 / 25.0			+5.0 / 33
587		+2.4 / 29	+2.4 / 11	+1.7 / 6.0	361.4	-0.4 / 4.4		+0.2 / 15	+4.2 / 25		+5.0 / 33
586		+1.7 / 29	+1.7 / 11	+0.1 / 2.0	362.7			-0.4 / 16	+3.0 / 24.4	+2.8 / 29.0	+3.7 / 33
585		+1.2 / 29.0	+1.2 / 11.0	+0.6 / 4.4	363.9	-0.2 / 4.5		-1.0 / 8.0	-0.7 / 19.0	+1.8 / 27.5	366.2 +2.3 / 33
584		+1.3 / 29	+1.3 / 11	+0.6 / 3.5	364.5	-1.6 / 4.2		-1.5 / 20.5	+1.1 / 26.9		+1.9 / 33
583		+0.9 / 29.4	+0.9 / 11.4	+0.3 / 4.5	366.6	-0.2 / 4.4		+0.6 / 7.2	+0.4 / 23.5	+1.2 / 27.4	+0.8 / 29 +1.3 / 33
582		+1.5 / 29.4	+1.5 / 11.4	+0.9 / 4.7	365.7				-0.8 / 24.4	+0.6 / 29	+1.5 / 33
581		+2.1 / 29	+2.1 / 11	+1.3 / 6.5	366.7	-0.1 / 6.7		-1.5 / 10.3	-1.5 / 21.0	+1.2 / 28.1	+1.9 / 33.0
580		+0.8 / 29	+0.8 / 11	+0.3 / 3.7	369.0	-0.8 / 8.0		-2.3 / 12.4	-2.6 / 24.2	-0.5 / 29	+0.3 / 33.0

606	354.2	353.9	354.1	354.0	355.0	355.4	354.8
	-0.8 / 31.3 Fence	-1 / 26.6 Rd.	-0.9 / 8.3 Rd.	-1.0 / 5.5		+0.4 / 5.8	-0.2 / 25.8
605	355.6	355.2	355.6	355.8	355.2	355.5	355.0
	+0.4 / 31.0 Fence	0.0 / 26.3 Rd.	+0.4 / 9.7 Rd.	+0.6 / 7.2		+0.3 / 5.2	-0.2 / 25.3
604	357.1	356.7	356.9		356.4	356.6	356.0
	+0.7 / 31.7 Fence	+0.3 / 26.9 Rd.	+0.5 / 8.5 Rd.			+0.2 / 6.5	-0.4 / 23.0
603	358.4	358.0	358.1		358.1	358.1	357.4
	+0.3 / 32.0 Fence	-0.1 / 27.3 Rd.	0.0 / 8.7 Rd	~~0.7~~	358.1	0.0 / 5.8 Fence	-0.7 / 22
602	359.6	359.1	359.3	359.5			359.0
	+0.9 / 31.8 Fence	+0.4 / 25.9 Rd.	+0.6 / 9.0 Rd	+0.8 / 6.8 Rd	+0.2 / 8		+0.3 / 5.3 Fence
601	361.1		360.7	360.9	360.8	360.0	360.4
	+0.8 / 33.0 Fence		+0.4 / 25.2 Rd.	+0.6 / 7.2 Rd.	+0.5 / 2.6	-0.3 / 3.2	+0.1 / 10.2 Fence
600	363.6	362.5	362.0	362.2	361.8	361.5	361.4
	+1.8 / 36.2 Fence	+0.7 / 33.4	+0.2 / 26.5 Rd.	+0.4 / 6.7 Rd		-0.3 / 2.4	-0.4 / 10.5 Fence
599	367.6	364	362.6	362.6	362.6	364.2	364.1
	+5.0 / 54.4	+3.8 / 35	-0.1 / 26.8	0.0 / 24.2 Rd.	+0.2 / 5.5 Rd	+1.6 / 4.4	+1.5 / 11.1
598	365.3	363.8	362.8	362.8	363.0	362.0	360.7
	+2.8 / 54.7 Fence	+1.3 / 34.7	+0.3 / 3.9	+0.3 / 24.3 Rd	+0.5 / 5.7 Rd.	-0.5 / 3.0	-1.8 / 25.5
597	367.4	364.7	362.9	362.8	363.3	362.0	361.7
	-0.4 / 48.5 Fence	-0.4 / 32.5	0.0 / 27.3	+0.1 / 22.4 Rd.	0.0 / 6.2 Rd.	+0.5 / 3.3	-0.8 / 5.3	-1 / 13.4	-1.8 / 26
		363.6	363.5	363.3	363.5	362.8	362.7	362.2	361.0
596		+0.7 / 29.6	+0.6 / 22.6	+0.6 / 11.2	+0.6 / 5.4		-0.2 / 7.2	-0.7 / 22.5	-0.8 / 34
		364.4	364.6	364.6	364.4		364.4	363.1	362.1
595			0.0 / 22.2	+0.2 / 8.3	0.0 / 5.0		0.0 / 2.0	+0.7 / 4.9	+0.1 / 25
			365.6	365.8	365.9		363.3	363.9	364.5
594				+0.2 / 22.2	+0.3 / 5.9		-0.3 / 14.8	-0.3 / 24.8	
				365.6	365.6		365.3	365.3	

619	342.8 +01 43.0 Fence		342.5 −02 27 Rd	342.8 +01 10 Rd.	342.2 −05 3.7
618	342.6 −04 43.3 Fence		342.8 −02 25.6 Rd.	343.0 0.0 11.0 Rd	343.1 +01 7.7 / 342.0 −10 32
617	344.2 −02 43.3 Fence		343.2 −12 26.8 Rd.	343.9 −05 10.0 Rd	343.5 −09 6.4
616	345.5 +09 43.7 Fence		344.4 −02 27.0 Rd.	344.5 −01 8.5 Rd.	
615	345.0 +06 44 Fence		344.6 +02 27.5 Rd	344.7 +03 11.4 Rd	++
614	346.2 −01 43.0 Fence		345.9 −10 28.0 Rd.		346.1 −08 7.5 Rd.
613	347.5 −12 43.0 Fence	347.1 −16 33.1	346.4 −23 30.2 Rd		346.6 −21 6.8 Rd
612	349.5 −19 43.0 Fence	349.3 −21 32.3	347.7 −37 31.1 Rd	347.9 −35 7.2 Rd	347.9 −35 6.0
611	348.6 −19 43.7 Fence	348.6 −19 34.3	347.7 −28 30.5 Rd	348.3 −22 10.0 Rd	347.9 −26 5.4
610	350.0 04 42.0		349.6 −05 25 Rd.	349.5 −09 7.2 Rd	
609	351.5 −0.0 41.0 Fence		350.7 08 25.6 Rd	351.1 −04 8.6 Rd.	
608	351.4 +02 31.5 Fence		351.3 +01 25.0 Rd.	351.5 +03 8.2 Rd	
607	352.8 +01 31.0 Fence		352.7 0.0 23.4 Rd.	352.6 −01 9.3 Rd.	352.4 −03 3.2

342.7		343.2 +05 26 Fence	
343.0		343.6 +06 25.3 Fence	
344.4		344.3 −01 25 Fence	
344.6		343.9 −02 25 Fence	
344.4 / 344.7		343.9 −05 24.0 Fence	
346.9		347.7 +08 25.2 Fence	
348.7 / 348.9	350.4 +17 5.3	350.6 +19 25.7 Fence	
351.4	352.9 +15 7.8	352.9 +15 25.4 Fence	
350.5	350.9 +04 7.5	351.1 +06 25.7 Fence	
350.4	350.8 +04 8.2	356.5 +01 26.5 Fence	
351.5	352.3 +08 7.5	351.9 +04 26.0 Fence	
351.2	351.4 +02 4.2	351.5 +03 24.5	
352.7	352.9 +02 5.3	352.9 +02 24.2	

632	338.6 +0.5 / 43.0 Fence	338.1 0.0 / 31.4	337.6 −0.5 / 31.3	337.7 −0.4 / 26.6 Rd.	337.8 −0.3 / 6.6 Rd
631	338.3 −0.2 / 43.0 Fence	337.8 −0.7 / 25 Rd.	338.0 −0.5 / 8.7 Rd.	
630	338.9 −0.2 / 43.6 Fence	338.8 −0.3 / 25	338.7 −0.4 / 7.6 Rd.	338.4 −0.7 / 4.0
629	339.7 −0.2 / 43.8 Fence	339.3 −0.6 / 26.8 Rd	339.3 −0.6 / 7.0 Rd.	~~339.3 −0.6 / 6.0~~
628	340.1 −0.1 / 44 Fence	338.9 −1.3 / 34.3	340.1 −0.1 / 27.0 Rd.	340.0 −0.2 / 8.2 Rd.	339.4 −0.8 / 4.2
627	340.7 +0.3 / 43 Fence	340.3 −0.1 / 26.7 Rd.	340.6 +0.2 / 9.0 Rd.	339.6 −0.8 / 3.8
626	341.2 +0.5 / 43.4 Fence	340.5 −0.2 / 26.6 Rd.	340.8 +0.1 / 9.0 Rd.	340.4 −0.3 / 5.0
625	341.2 +0.3 / 43 Fence	340.6 −0.3 / 27 Rd.	341.1 +0.2 / 10 Rd.	340.7 −0.2 / 5.8
624	341.7 +0.2 / 44 Fence	341.2 −0.3 / 27.8 Rd	341.7 +0.2 / 11 Rd	341.1 −0.4 / 6.3
623	342.4 +0.5 / 43.4 Fence	341.7 −0.2 / 26.4 Rd.	342.2 +0.3 / 10.0 Rd.	341.6 −0.3 / 6.2
622	342.5 0.0 / 43.0 Fence	342.0 −0.5 / 26.2 Rd.	342.4 −0.1 / 10.5 Rd.	342.1 −0.4 / 3.5
621	343.1 +0.3 / 43.0 Fence	342.2 −0.6 / 26.8 Rd.	342.5 −0.3 / 9.0 Rd.	342.1 −0.7 / 3.5
620	342.6 −0.1 / 43.3 Fence	342.2 −0.5 / 26.4 Rd.	342.6 −0.1 / 10.3 Rd.	342.2 −0.5 / 5.3

338.1	338.1 0.0 / 5.0	335.7 −2.4 / 10.0	337.8 −0.3 / 13.8	337.9 −0.2 / 25.2 Fence
338.5	338.6 +0.1 / 6.0		339.1 +0.6 / 25.5 Fence
339.1			339.4 +0.3 / 25 Fence
339.9			340.2 +0.3 / 25.2 Fence
340.2			340.7 +0.5 / 25 Fence
340.4			340.8 +0.4 / 25.0 Fence
340.7			341.5 +0.8 / 25.3 Fence
340.9			341.1 +0.2 / 25 Fence
341.5			341.8 +0.3 / 24.0 Fence
341.9			342.0 +0.1 / 25.4
342.5			342.9 +0.4 / 23.4 Fence
342.8			343.3 +0.5 / 25.4 Fence
342.7			343.5 +0.8 / 23.6 Fence

643	335.5 +0.7 54.6 Fence	335.2 +0.4 32 Rd	335.2 +0.4 19.3 Rd	335.7 +0.9 8.8	334.8	335.7 +0.9 4.4				335.5 +0.7 23.6 Fence	
642	335.6 +0.6 52.6 Fence	335.2 +0.2 27.8 Rd	335.4 +0.4 10.6 Rd	335.0		335.5 +0.5 6.0	334.9 -0.1 12.8			336.0 +1.0 25.3 Fence	
641	335.6 +1.0 43.7 Fence	335.6 +0.1 27.6 Rd	335.7 +0.2 8.0 Rd	335.5		335.9 +0.4 2.8	335.0 -0.5 7.0			335.6 +0.1 25.7 Fence	
640	336.4 +0.3 43.5 Fence	335.9 -0.2 26.8 Rd	335.6 -0.5 6.4 Rd	336.1		336.3 +0.2 1.8	335.8 -0.3 10.7	336.5 +0.4 14.7	335.8 -0.3 21.7	336.6 +0.4 25.4 Fence	
639	336.8 +0.4 44 Fence	335.8 -0.6 26.3 Rd	335.9 -0.5 7.0 Rd.	336.4		336.6 +0.2 6.8	335.6 -0.8 10.2	336.4 0.0 15.7		336.8 +0.4 25 Fence	
638	337.1 +0.5 49 Fence	336.4 -0.2 33.2	335.8 -0.8 26.5 Rd.	336.0 -0.6 5.4 Rd	336.6	337.0 +0.4 5.0	336.0 -0.6 8.3	335.5 -1.1 14	336.4 -0.2 15.8	336.6 0.0 25 Fence	
637	337.3 0.0 43.5 Fence	336.8 -0.5 32.8	336.4 -0.9 26.6 Rd.	336.7 -0.6 5.8 Rd.	337.3	337.8 +0.5 6.3	336.4 -0.9 12	337.5 +0.2 16.3		338.0 +0.7 24.7 Fence	
636	337.6 +0.1 43 Fence	337.4 -0.1 32.8	336.7 -0.8 26 Rd.	336.6 -0.9 4.6 Rd.	337.5	337.9 +0.4 5.5	336.7 -0.8 12	337.9 +0.4 16.6		338.5 +1.0 25 Fence	
635	338.2 +0.3 43 Fence	337.7 -0.2 32	337.3 -0.6 26 Rd.	337.1 -0.8 5.0 Rd.	337.9	338.1 +0.2 5.4	336.4 -1.5 12.6	337.9 0.0 17.5		338.1 +0.7 25 Fence	
634	338.7 +0.6 42.2 Fence	337.9 -0.2 31	337.3 -0.8 26.8 Rd.	337.5 -0.6 5.2 Rd.	338.1	338.3 +0.2 4.5	336.3 -1.8 11.0	337.9 -0.2 15.8		338.1 0.0 25.0 Fence	
633 ~~633~~	338.7 +0.4 42.4	338.0 -0.3 32.0	337.6 -0.7 25.9 Rd.	337.6 -0.7 7.0 Rd.	338.3	338.3 0.0 8.0	337.1 -1.2 12.7	338.0 -0.3 15.0		338.2 -0.1 25.0 Fence	

Sta.					
276+00				457.0 +29 / 50	
275+00			457.0 +36 / 50	453.9 +05 / 30	
274+00			463.4 +102 / 50	455.5 +23 / 23	
273+00	478.5 +251 / 50	462.4 +90 / 13	458.6 +52 / 10	455.5 21 / 4	453.7 +03 / 25
272+50			483.6 +293 / 50	464.8 +105 / 11	455.5 +12 / 9
244+00			466.8 −01 / 305 Fce	467.6 +02 / 19 Rd.	467.6 +02 / 8 Rd.
236+00	503.4 +165 / 65 Fce	497.0 +101 / 38	494.0 +71 / 36	493.8 +62 / 29 Rd	493.7 +68 / 16 Rd.	493.4 +65 / 9
219+00	482.9 +40 / 35	480.5 +16 / 23	479.0 +01 / 23	479.1 +02 / 18 Rd	479.0 +01 / 5 Rd.
218+25			+34 / 33 Fce	+19 / 15	+04 / 13

454.1	454.0 −01 / 30 Rd	453.4 −02 / 16 Rd.	453.4 −02 / 225 Fce	
453.4	453.5 +01 / 50 Rd	453.7 +03 / 16 Rd.	453.2 −02 / 228	
453.2	453.4 +02 / 30 Rd.	453.3 +01 / 14 Rd.	453.2 0 / 19 Fce.	+
453.4	453.6 +02 / 50 Rd.	454.0 +06 / 162 Rd.	454.1 +02 / 287	
454.3	454.4 +01 / 10 Rd.	454.8 +05 / 142 Rd.	455.0 +02 / 236	—
466.9	466.3 −06 / 17 Fce.			
486.9	485.3 −16 / 32	485.2 −12 / 73	483.2 −32 / 110	482.9 −140 / 440 Rd.	472.6 −143 / 530 Rd.
478.9	478.4 −05 / 64	477.0 −19 / 92 Fce.			
	02 / 20 Rd	−07 / 16.5 Rd	−11 / 276	−24 / 314 Fce	

Sta.				
311+00	459.4 +20.3 50°	440.3 +1.2 5°	438.6 -0.5 4.5	
278+63.3		478.4 +26° 50	458.7 +6.3 2°	
283	480.6 +25.1 50°	470.5 +15° 25°	465.7 +9.2 9°	
282	472.3 +19.3 50°	463.1 +10.1 30°	452.8 -0.2 21.5	452.9 -0.1 10.3 Rd.
281	483.2 +29.2 50°	464.5 +11° 13°	461.5 +8° 10°	453.5 0° 8°
280	484.4 +31° 50°	463.1 +9.2 7°	453.4 -0° 5°	
279	483.4 +31° 50°	468.5 +16.1 32°	459.2 +6.8 7°	452.4 0° 6°
$\boxed{278+63.3}$				
278+00	477.3 +21.1 50°	459.9 +3.2 9°	459.0 +2.8 5°	
277+00	468.7 +16.5 50°	458.7 +6.5 19°	459.9 +3.2 8°	552.3 +0.1 5°

439.1	439.4 +0.3 4° Rd	439.6 +0.5 13° Rd	439.7 +0.6 17.3	436.1 -3° 26.6		
452.4	452.3 -0.1 6° Rd.	452.7 +0.3 16° Rd	452.5 +0.1 25°	448.0 -4.1 31°		
455.5	455.4 -0.1 0.9	454.3 -1.2 1.2	454.2 -1.3 6.5 Rd.	454.5 -1° 21.6 Rd	454.0 -1.5 32.1	444.9 -10.6 48.5 Fce
453.0	452.1 -0.9 8.6 Rd.	444.2 -8.8 17° Fce.				
453.5	453.6 +0.1 2° Rd	453.8 +0.3 10° Rd	453.4 -0.1 20°	445.2 -8.3 31° Fce		
453.4	453.7 +0.3 5° Rd.	453.8 +0.4 14° Rd	453.4 0° 22°	449.1 -4.3 28°		
452.4	452.6 0.2 2° Rd.	453.1 0.2 13° Rd.	453.0 +0.6 19°	448.3 -4.1 24°		
456.2	455.6 -0.6 1.5	451.7 -4.5 3.5	451.8 -4.4 11.6 Rd.	452.4 -3.8 20.5 Rd.	452.2 -4° 31°	446.4 -9.8 38°
452.2	452.4 +0.2 6° Rd.	452.5 +0.3 14° Rd.	451.6 -0.6 22°	448.4 -3.8 26.8 Fce.		

315						466.3 +21.7 / 50.0	444.6	443.6 −1.0 / 3.0	438.8 −5.8 / 4.3	438.9 −5.2 / 11.5 Rd.	439.5 −5.1 / 19.6 Rd.	439.2 −5.4 / 30.0	435.2 −9.4 / 39.0
314+83.7						468.3 +22.4 / 50.0	445.9	445.3 −0.6 / 1.0	438.9 ~~439.9~~ −7.0 / 4.0	438.9 ~~439.9~~ −7.0 / 10.5 Rd.	439.3 −6.6 / 20.4 Rd.	438.8 ~~439.6~~ −7.1 / 31.0	435.7 −10.2 / 37.0
314+00		466.3 +26.4 / 50.0	449.9 +10.0 / 18.2	438.9 −1.0 / 16.0	439.4 −0.5 / 6.0 Rd		439.9	440.0 +0.1 / 4.0 Rd.	439.6 −0.3 / 13.1	434.9 −5.0 / 19.0			
313+35	460.4 +26.0 / 65.0	448.1 +13.2 / 45.0	438.8 +4.4 / 42.0	439.2 +4.8 / 34.0 Rd.	439.4 +5.0 / 25.6 Rd.	438.9 +4.5 / 16.0	434.4 0.0 / 10.0	434.4					
313+00	456.3 ~~455.3~~ 21.5 / 50.0	443.8 +9.0 / 35.0	438.6 +3.8 / 32.3	438.9 +4.1 / 24.4 Rd.	439.1 +4.3 / 15.3 Rd.	439.4 +4.6 / 9.0	434.8						
312+00	468.4 +29.7 / 50.0	462.7 +24.0 / 35.0	454.7 +16.0 / 22.0	447.7 +9.0 / 13.0	438.5 −0.2 / 11.0	438.5 −0.2 / 3.0 Rd.	438.7	439.2 +0.5 / 7.2 Rd.	439.0 +0.3 / 14.0	435.7 −3.0 / 20.0			
311+50	+25.1 / 50.0	+15.0 / 27.0	+4.4 / 8.5	−0.3 / 5.5				+0.1 / 3.0 Rd	+0.3 / 11.0 Rd	+0.3 / 17.4	−3.4 / 25.0		

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1½ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

TABLE No. 9.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given I may be found by dividing tangent, (or external), opposite I by given tangent, (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

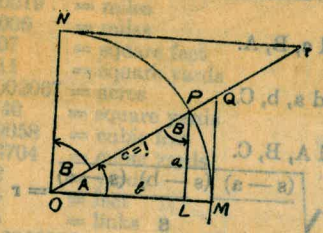


TABLE II

TRIGONOMETRIC FORMULÆ.

$\angle A = \angle MOP \qquad \angle B = \angle PON = \angle OPL$

$R = OB = c = 1$

$$\sin A = \frac{a}{c} = \frac{a}{1} = a = \cos B = LP$$

$$\cos A = \frac{b}{c} = \frac{b}{1} = b = \sin B = OL$$

$$\tan A = \frac{a}{b} = \frac{MQ}{OM} = \frac{MQ}{1} = MQ = \cot B = MQ$$

$$\cot A = \frac{NT}{ON} = \frac{NT}{1} = NT = \tan B = NT$$

$$\sec A = \frac{OQ}{OM} = \frac{OQ}{1} = OQ = \csc B = OQ$$

$$\csc A = \frac{OT}{ON} = \frac{OT}{1} = OT = \sec B = OT$$

Curvature of Earth's surface = about 0.7 feet in 1 mile
Curvature in feet = 0.667 (Dist. in miles)^2.
Difference between arc and chord length, 0.05 feet in 11½ miles

Probable error of a single observation $= 0.6754 \sqrt{\frac{\Sigma v^2}{n-1}}$

Error in chaining of 0.01 feet in 100 feet:
Due to—

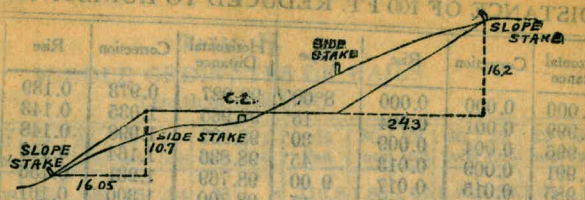
1. Length of tape error of 0.01 feet
2. Alignment. One end 1.4 feet out of line
3. Sag of tape at centre of 0.61 feet.
4. Temperature difference of 15°
5. Difference of pull of 15 lbs.

STADIA REDUCTION FORMULÆ.

Horizontal Distance $= R - R \sin^2 a + C \cos a$
Vertical Distance $= R \frac{1}{2} \sin 2a + C \sin a$

$$R = \text{Reading} \times \frac{\text{distance from Object glass to cross hairs}}{\text{distance between cross hairs}}$$

C = distance from Object glass to cross hairs + distance from Object glass to center of instrument.
a = angle of elevation for mid Reading



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1½ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28

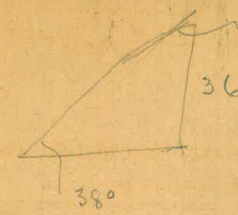
75	15	11-30	5-45	17.3
100	20	11-30	5-45	17.3
120	20	9-34	4-47	14.3
150	20	7-39	3-49	11.5
190	25	7-32	3-46	9.15
200	25	7-10	3-35	8.6
225	25	6-25	3-12	7.7
240	25	5-58	2-59	7.2
250	25	5-44	2-52	6.9
275	25	5-12	2-36	6.2
288	50	9-58	4-59	6.0
300	50	9-32	4-46	5.7
350	50	8-12	4-06	4.9
376	50	7-40	3-50	4.6
400	50	7-10	3-35	4.3
410	50	7-00	3-30	4.2

o find length of curve divide angle from P. C. to P. T. by central angle of chord, and multiply by length of chord.

1.2799
36
7 6794
38 397
46.076"

25.2
30
55

90
38
52



25
17
75

313+35.2 Last one

17.7
2.3

1.6

13.1
1.6
11.5

96
74

54.6

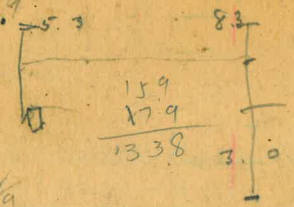
72
28.9
100.9

14
5
42

95
95
19.3

38
16
54

7.8
8.7
-16.3



159
179
338

11.5
5.3
-6.2
-5.6
.6

25
3

90
69
23

37
62
99

6.3
126
189

89
111

8.0
5.3
2.7

18
17
35

5.6

520.1
8.7
511.4

153
195
348

69
41
100

14.2
5.3
8.9

19
23
42

571.1
18.3
589.4

568.4
15.8
552.6

3.7
6.8
-10.5
+9
-9.6
-11.5
-21.1

13.8

17.8

23

1.7
17.2
18.9

.6691
40
26.7640

24
23

335.13456
8.937

28.5
10.9
4

.5735
44
22940
22940
25.2340

18.3
2
37.6

58
22
36

6.14
3.55
2.59

398.00
2.59
400.59

59
356
24

64
28
38

25

64
14
78

28
33
61

117
68

83
14
97

46.9
8.2
38.7

79
23
10.2

.70711
43
212133
28284
30.40573
37

35
19
54

29.7
5.5
35.0

116
17
133

47
33
80

29
12
41

35
13

69
43
112

11.7
72
4.5

12.6
108
23.4

158
175
175.5

88
28
60

43
26
69

72
35
107

38
12
90

54
21
75

78
29
107

198
82
280

47
24
13

46
23
69

62
23
39

69
97
16.6

90
28
62

64.5
64
70.9
14
5

25
17
42

116
28
144

28
15
43

25 Bottom
75 Crest.
16

40.1
19
59.1

1,880.7
25
94035
37614
47.0175

64.5
36
68.1

520.1
178
537.9

90
59
31

204
75
129

204

25

38°

35
17
52

4.6
19
6.5

.6494
36
38964
1948.2
23.3784
135
158.-