

ELEVATIONS

Book I

SEA MOR

AREA

MARCH + April

1973

GRAVITY

H-6 G-6

LINE	HN	V. Angle	R.F.	Dist.	Product.
B.L.	40+00 ^E	90° 30'	0.87	300'	+2.61
	39+00 ^E	—		200	
	38+00 ^E	—		100	
	37+00 ^E	—		0	
	36+00 ^E	—		100	
	35	—		200	
	34	+88° 30'	2.62	300	+7.86
	33+00 ^E	+87° 20'	4.65	400	+18.60
	33+00 ^E	-94° 30'	7.82	300	+23.46
	32	-94° 30'	7.82	200	-15.64
	31	-90° 30'	0.87	99	-0.86
	30+00 ^E	—		0	
	29	+86° —	6.96	101	
	28	+86° —	6.96	201	
	27+00 ^E	+86° 30'	6.09	300	+18.27
	27+00 ^E	90 —		200	
	26	—		100	
	25+00 ^E	—		0	
	24	—		100	
	23+00 ^E	—		200	
B.L.	23+00 ^E	+85° —	8.68	347	-30.12

P.	Red.	rdg.	Elev. d	H.I.	Elev.
	B.S. +	I.S.			B.L. 40100 E 3000
⊕	11.47		+14.08	3014.08	
		10.90	-10.90		
		8.06	-8.06		
		5.49	-5.49		
		3.15	-3.15		
		2.21	-2.21		
		2.75	+5.11		
⊙		2.42	+16.18		3030.26
⊕	10.10		+33.56	3063.82	
		7.67	-23.31		
		12.75	-13.61		
		5.67	-5.67		
		4.46			
		4.95			
⊙		5.87	+12.40		3076.22
⊕	+6.53		+6.53	3082.75	
		4.63			
		5.45			
		9.17			
⊙		11.92	-11.92		3076.835
⊕	3.64		-26.48	3044.35	



LINE	STN	V angle	R.F.	Dist.	Product
B.L.	22+00 ^E	+85°	8.68	247	+21.44
	21	+85°	8.68	149	+12.93
	20	—		47	
	π				
	19	104°	23.47	54	-12.67
	18	101°	18.73	156	-29.22
	17+00 ^E	-97°	12.10	256'	-30.98
	17+00 ^E	+85°	8.68	300	-26.04
	16	+87°	5.23	200	+10.46
	15	+88°	3.49	100	+3.49
	14	—		0	
	13	—		100	
	12+00 ^E	—		200	
	11+00 ^E	—		300	
	11+00 ^E	+87°	5.23	400	-20.92
	10	+87° 40'	4.07	300	+12.21
	9	+87° 40'	4.07	200	+8.14
	8	—		100	
	7+00 ^E	—		0	
	6+	—		106	
	5+00 ^E	—		200	

P.	Rod reading BS. +	F.S. -	Elev. d.	HI.	Elev.
		6.01 -		3044 ³⁵	
		9.94 -	+2.99		
		5.42 -	-5.42		3038.93
		10.24 -			
		13.26 -	-42.48		
		8.26 -	-39.24		3005.18
	5.37 +		-20.67	2984. ⁴⁴	
		1.17 -	+9.29		
		2.43 -	+1.06		
		5.26 -	-5.26		
		6.08 -	-6.08		
		4.38 -	-4.38		
		5.52 -	-5.52		2978.92 ⁴⁴
	4.49 +		-16.43	2962. ⁴⁹	
		2.63 -	+9.59		
		5.72 -	+2.42		
		4.37 -	-4.37		
		5.34 -	-5.34		
		6.40 -	-6.40		
		5.66 -	-5.66		



JOB

DATEPAGE

LINE	STN.	V angle	R.F.	Dist.	Product
B.L.	4+00 E	—		300	
	3	—		400	
	2+00 E	—		500	
	2+00 E	—		100	
	1+00 E	—		0	
B.L.	0	—		100	
	1+00 W	—		200	
	2+00 W	—		300	
	2+00 W	91° 30'	2.62	405	+10.61
	3+00 W	91° 30'	2.62	302	-7.91
	4+00 W	—		200	
	5+00 W	—		100	
	6+00 W	—		0	
	7	—		100	
	8	—		200	
	9	—		300	
	10+00 W	—		400	
	10+00 W	—		400	
	12	—		300	
	13	—		200	
	14+00 W	—		100	



PARTY CHIEF

WEATHER

P	Rod Reading		Elev. d.	H.I.	Elev.
	B.S. +	F.S. -			
		7.45		2962.49	
		7.73			
⊙		6.38	-6.38		2956.11
⊕	6.30		+6.30	2962.41	
		5.34			
		4.73			
		5.80			
⊙		6.01	-6.01		2956.40
⊕	3.33		+13.94	2970.34	
		5.83	-13.74		2956.60
		11.40	-11.40		2958.94
		9.10	-9.10		2961.94
		4.90	-4.90		2965.44
		3.48	-3.48		2966.86
		3.01	-3.01		2967.33
		4.40	-4.40		2965.94
⊙		4.75	-4.75		2965.59
⊕	2.03		+2.03	2967.62	
		3.40	-3.40		2964.22
		4.61	-4.61		2963.01
		5.28	-5.28		2962.34



Line	STN	V. angle	R.F.	Dist.	Product
B.L.	14+00 ^w	—		0	Lake
	15	—		100	
	16	—		200	
	17	—		300	
B.L.	18+00 ^w	—		400	Lake
	18+00 ^w	—		600	
	19	—		500	
	20	—		400	
	21	—		300	
	22	—		200	
	23	—		100	
	24+00 ^w	—		0	
	25	—		100	
	26	—		200	
	27	—		300	
	28+00 ^w	—		400	
	28+00 ^w	—		200	
	29	—		100	
	30	—		0	
	31	—		100	
B.L.	32+00 ^w	—		200	

T.P.	Rodreading	F.k.v.d.	H.I.	Elev.
	B.S.T	F.S.	2967.62	
	5.48	-5.48		2962.14
	5.61	-5.61		2962.01
	5.66	-5.66		2961.96
	5.70	-5.70		2961.92
⊙	5.62	-5.62		2962.00
⊕	+5.65	+5.65	2967.65	
	5.72	-5.72		2961.93
	5.70	-5.70		2961.95
	5.66	-5.66		2961.99
	5.67	-5.67		2961.98
	5.67	-5.67		2961.98
	5.65	-5.65		2962.00
	5.70	-5.70		2961.95
	5.70	-5.70		2961.95
	5.74	-5.74		2961.91
⊙	3.80	-3.80		2963.85
⊕	+10.08	+10.08	2973.93	
	6.65	-6.65		2967.28
	5.65	-5.65		2968.28
	5.42	-5.42		2968.51
⊙	3.67	+3.67		2970.26
	End of B.L. WEST.			

LINE	STN	V. ANGLE	R.F.	Distance	Product	
		Fly back to 40+00 ^E	R.L.			from
	32+00 ^w					
B.L.	29+00 ^w	—		200		
	28+00 ^w	—		400		
	18+00 ^w	—		600		
	18+00 ^w	—		400		
	16+00 ^w	—		400		
	"	—		400		
	2+00 ^w	91° 30'	2.62	401	-10.51	
	"	—		300		
	2+00 ^E	—		100		
	"	—		400		
	11+00 ^E	+87° 30'	4.36	500	+21.80	
	"	+89° 00'	1.74	400	+6.96	
	20+00 ^E	+83° 30'	11.25	504	+56.70	
	"	95° 00'	8.68	301	+26.13	
	27+00 ^E	+89° 00'	1.74	401	+6.98	
	"	+86° 30'	6.09	300	-18.27	
	33+00 ^E	95° 00'	8.68	300	-26.04	
	"	+86° 30'	6.09	302	+18.39	
	40+00 ^E	91° 00'	1.74	400	-6.96	

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DATE PAGE

T.P.	Rod reading B.S. +	reading F.S. -	Elev. d	H.I.	Elev.
					2972.45
○		10.08	-10.08		2963.85
π	3.82		+3.82	2967.67	
○		5.66	-5.66		2962.01
π	5.70		+5.70	2967.71	
○		2.06	-2.06		2965.65
π	5.20		+5.20	2970.85	
○		3.65	-14.76		2956.69
π	5.93		+5.93	2962.62	
○		6.20	-6.20		2956.42
π	5.10		+5.10	2961.52	
○		4.00	+17.80		2979.32
π	4.30		-2.66	2976.66	
○		7.80	+48.90		3025.56
π	11.40		+37.53	3063.09	
○		7.03	-0.05		3063.04
π	5.84		-12.43	3050.61	
○		7.43	-33.47		3017.14
π	4.22		-14.17	3002.97	
○		9.05	-16.01		

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WEATHER



LINE	STN	V. ANGLE	R.F.	dist.	prod.
B.L.	40+00 ^E	+ 87° -	5.23	400	-20.92
	41	+ 87° -	5.23	300	+15.69
	42	+ 87° -	5.23	200	+10.46
	43	+ 89° -	1.74	100	+1.74
	44	—		0	
	45	—		100	
	46	—		200	
	47	- 92° -	3.49	300	-10.47
	48+00 ^E	- 91° 30'	2.62	400	-10.48
	"	+ 88° 30'	2.62	400	-10.48
	49	+ 88° 30'	2.62	300	+7.86
	50	+ 89° -	1.74	202	+3.51
	51	—		100	
	52	—		0	
	53	—		100	
	54	- 90° 30'	0.87	200	-1.74
	55	—		300	
	56 ^E	- 90° 30'	0.87	400	-3.48
	"	+ 88° 30'	2.62	400	+10.48
	57	+ 88° 30'	2.62	300	+7.86
	58+00 ^E	+ 88° 30'	2.62	203	+5.32

JOB

DATE PAGE

T.P.	rod reading		Elev.	H.I.	Elev.
	B.S.	I.S.			
				2984.93	3000.00
⊗ ⌒	+5.85		-15.07		2969.86
		-5.15	+10.54		2995.47
		-5.96	+4.50		2989.43
		-2.71	-0.97		2983.96
		-5.25	-5.25		2979.68
		-8.01	-8.01		2976.72
		-11.60	-11.60		2973.83
		-3.74	+14.21		2970.72
⊙ ⌒	+5.57		-16.40		2968.53
			-4.91	2963.62	
		-5.84	+2.02		2965.64
		-4.35	-0.84		2962.78
		-3.07	-3.07		2960.55
		-5.85	-5.85		2957.77
		-8.05	-8.05		2955.57
		-12.43	-14.17		2949.45
		-12.61	-12.61		2951.01
⊙ ⌒	+3.57		-11.77		2948.97
			-6.91	2942.06	
		-3.76	+4.10		2946.16
		-3.90	+1.42		2943.48

PARTY CHIEF

WEATHER

Line	sta	V. angle	R.F.	distance	product
B.L.	59+00 ^E	—	.	100	.
	60	—		0	
	61	—		100	
	62	91° —	1.74	200	-3.48
	63	92° —?	3.49	300	-10.47 or 97°
	64	93° —	5.23	400	-20.92
	"	+88° —	3.49	500	-17.45
	65+00 ^E	+88° —	3.49	400	+13.96
	66	+88° —	3.49	300	+10.47
	67	+88° —	3.49	200	+6.98
	68	+88° —	3.49	102	+3.56
	69	—		0	
	70	—		100	
	71	93° 30'	6.09	200	-12.18
	72+00 ^E	93° 30'	6.09	300	-18.27
	"	+85° 30'	7.82	405	-31.67
	73	+85° 30'	7.82	301	+22.54
	74	+85° 30'	7.82	200	+15.64
	75	+87° 30'	4.36	100	+4.36
	76	—		0	
B.L.	77+00 ^E	92° —	3.49	100	-3.49

T.P.	rod reading B.S. ⁺ F.S.	Elev. of	HI 2942.06	Elev.
	-1.88	-1.84		2940.18
	-5.75	-5.75		2936.31
	-9.75	-9.75		2932.31
	-10.95	-14.42		2927.63
	-10.78	-21.25		2920.81
⊙	-4.91	-25.83		2916.23
⊗	+3.97	-13.48	2902.75	
	-3.65	+10.31		2913.06
	-3.90	+6.52		2909.82
	-3.14	+3.84		2906.59
	-4.04	-0.48		2902.27
	-5.25	-5.25		2897.50
	-9.28	-9.28		2893.47
	-7.63	-19.81		2882.94
⊙	-8.40	-26.67		2876.08
⊗	+4.55	-27.12	2848.96	
	-3.86	+19.68		2868.64
	-3.65	+11.99		2860.95
	-1.70	+2.66		2851.62
	-5.75	-5.75		2843.21
	-12.10	-15.59		2833.37

Line	stn	V angle	R.F.	distance	prod:
B.L.	78+00 ^E	-95°	8.68	201	-17.45
	79	-95°	8.68	302	-26.21
	80+00 ^E	-95°	8.68	403	-34.98
	"	+86°	6.96	405	-28.19
	81	+86°	6.96	300	+20.88
	82	+87°	5.23	200	+10.46
	83	+88°	3.49	100	+3.49
	84	—		0	
	85	—		100	
	86	-93° 00	5.23	200	-10.46
	87	-93° 00	5.23	300	-15.69
	88+00 ^E	-92°	3.49	402	-14.03
	"	—		401	
	89	—		300	
	90	—		200	
	91	—		100	
	92	—		0	
	93+00 ^E	—		100	
	93+00 ^E	+81° 30'	14.62	108	-15.79
B.L.	94	—		0	

T.P.	rod - B.S. +	reading F.S.	Elev. of	H. I.	Elev.
				2848.96	
		-8.20	-25.65		2823.31
		-7.94	-34.15		2814.81
⊙		-5.58	-40.56		2808.40
⌒	+5.95		-22.24	2786.16	
		-4.30	+16.58		2802.74
		-4.66	+5.80		2791.96
		-3.17	+0.32		2786.48
		-5.80	-5.80		2780.36
		-12.03	-12.03		2774.13
		-9.22	-19.68		2766.48
		-8.00	-23.69		2762.47
⊙		-8.10	-22.13		2764.03
⌒	+3.86		+3.86	2767.89	
		-8.84	-8.84		2759.05
		-4.89	-4.89		2763.00
		-8.27	-8.27		2759.62
		-5.45	-5.45		2762.44
⊙		-8.52	-8.52		2759.37
⌒	+3.52		-12.27	2747.10	
		-4.73	-4.73		2742.37

Line	STN	V ANGLE	R.F.	distance	prod.
B.L.	95+00 ^E	-102° 30'	21.13	100	-21.13
"	"	+84° -	10.40	200	-20.80
96	"	+89° -	1.74	100	+1.74
97	"	—		0	
98	"	—		100	
99	"	—		200	(on ice)
100	100+00 ^E	+89° -	1.74	300	+5.22
"	"	91° -	1.74	200	+3.48
101	"	269° 30'	0.87	100	-0.87
102	"	—		0	
103	"	+88° -	3.49	100	+3.49
104	104+00 ^E	+272° 30'	4.86	200	+8.52
"	"	—		400	
105	"	—		300	
106	"	—		200	
107	"	—		100	
108	"	—		0	
109	"	—		100	
110	"	—		200	
111	111+00 ^E	—		300	

JOB

DATE PAGE

T.P.	rod - B.S. ⁺	reading F.S. ⁻	Elev. d.	H.I.	Elev.
				2747. ¹⁰	
○		-9.70	-30.83		2716.27
π	+5.73		-15.07	2701. ²⁶	
		-1.52	+0.22		2701.42
		-5.60	-5.60		2695.60
		-6.49	-6.49		2694.71
		-5.24	-5.24		2695.96
○		-4.47	+0.75		2701.95
π	+10.50		+13.98	2715. ⁹³	
		-11.16	-12.03		2703.90
		-5.60	-5.60		2710.33
		-2.65	+0.84		2716.77
○		-7.10	+1.42		2717.35
π	+8.58		+8.58	2725. ⁹³	
		-5.25	-5.25		2720.68
		-9.71	-9.71		2716.22
		-8.88	-8.88		2717.05
		-6.00	-6.00		2719.93
		-8.80	-8.80		2717.13
		-9.19	-9.19		2716.74
		-10.76	-10.76		2715.17

PARTY CHIEF

WEATHER

Line	STN	V ANGLE	R. F.	dist.	Product
B.L.	112+00 ^E	—		400	ICE
	"	—		400	ICE
	113	—		300	ICE
	114	—		200	
	115	—		100	
	116	—		0	
	117	—		100	
	118	+89°—	.87	200	1.74
	119	+89°30'	.87	300	2.62
	120+00 ^E	+89°30'	0.87	400	+3.48
	120+00 ^E	-93°—	5.23	400	+20.92
	121	-95°30'	7.82	300	-22.46
	122	-98°—	13.78	200	-27.56
	123	-98°—	13.78	100	-13.78
	124	—		0	
	125	+82°20'	12.66	100	+12.66
	126	+80°30'	16.28	205	+33.37
	127	+81°20'	14.90	308	+45.89
	128+00 ^E	+81°20'	14.90	408	+60.79
	"	-90°45'	1.31	300	+3.93

-28.62



PARTY CHIEF

WEATHER

T.P.	rod - B.S. +	rdg. F.S. -	Elev. d	H.I.	Elev.
				2725.93	
⊙		-12.26	-12.26		2713.67
⌞	+7.98		+7.98	2721.65	
		-7.93	-7.93		2713.72
		-7.75	-7.75		2713.90
		-6.88	-6.88		2714.77
		-5.60	-5.60		2716.05
		-3.65	-3.65		2718.00
		-3.65	-3.65		2719.74
		-5.65	-5.65 -3.23		2718.62
⊙		-10.42	-6.94		2714.71
⌞	+10.46		+31.38	2746.09	
		-3.55	^{32.17} -27.01		2713.92 2719.08
		-4.01	-31.57		2714.52
		-7.85	-21.63		2724.46
		-4.95	-4.95		2741.14
		-0.77	+11.89		2757.98
		-5.54	+27.83		2773.92
		-2.05	+43.84		2789.93
⊙		-4.43	+56.36		2802.45
⌞	+11.92		+15.85	2818.30	

JOB

DATE PAGE 6

LINE	STN	V angle	R.F.	Dist.	Product.	
B.L. -	129+00 ^E	—		200		
	130	—		100		
	131	—		0		
	132	—		100		
	133	92° 30'	4.36	200	-8.72	
	134	93° 30'	6.09	300	-18.27	
	135	93° 30'	6.09	400	-24.36	
B.L. -	136	93° 30'	5.80	500	-29.00	
	136+00 ^E	—		200		Next day
	137	—		100		
	138	—		0		
	139	—		100		
	140	+86° 30'	6.09	200	+12.18	
	141+00 ^E	+85° —	8.68	302	+26.21	
	141+00 ^E	—		300		
	142	—		200		
	143	—		100		
	144	—		0		
	145	—		100		
	146	268° —	2.49	198	-6.91	

T.P.	rod B.S. ⁺	rdg F.S. ⁻	Elev. d.	H.I.	Elev.
				2818. ⁸⁰	
		-5.34	-5.34		2812.96
		-2.93	-2.93		2815.37
		-5.88	-5.88		2812.42
		-10.68	-10.68		2807.62
		-8.28	-17.00		2801.30
		-7.50	-25.77		2792.53
		-10.05	-34.41		2783.89
○		-6.15	-35.15		2783. ¹⁵
π	+5.62		+5.62	2788. ⁷⁷	
		-5.79	-5.79		2782.98
		-5.70	-5.70		2783.07
		-5.21	-5.21		2783.56
		-4.48	+7.70		2796.47
○		-3.58	+22.63		2811.40
π	+6.13		+6.13	2817. ⁵³	
		-2.16	-2.16		2815.37
		-1.59	-1.59		2815.94
		-5.60	-5.60		2811.93
		-12.56	-12.56		2804.97
		-8.85	-15.76		2801.77

JOB

DATE PAGE 7

Line	Stn	V angle	R.I.	Dist.	product
B.L. -	147+00 ^E	92° -	-3.49	298	-10.40
"	"	87° 30'	+4.36	200	-8.72
	148	—		100	
	149	—		0	
	150	—		100	
	151	—		200	
	152+00 ^E	—		300	
B.L.	152+00 ^E	—		500	
152+00 ^E	1+00 ^S	—		400	
	2	—		300	
	3	—		200	
	4	—		100	
	5+00 ^S	—		0	
	6	—		100	
	7	273° 30'	+6.09	198	+12.06
	8	275° 30'	+9.54	303	+28.91
	9	276° -	+10.40	404	+42.02
	10+00 ^S	276° -	+10.40	505	+52.52
		91° -	-1.74	300	+5.22
152+00 ^E	11+00 ^S	—		200	

T.P.	Rod B.S.	rdg. FS	Elev. of	H.I.	Elev.
				2817. ⁵³	
⊙		-9.33	-19.73		2797.80
⊕	+3.73		-4.99	2792. ⁸¹	
		-2.77	-2.77		2790.04
		-5.85	-5.85		2786.96
		-5.86	-5.86		2786.95
		-5.90	-5.90		2786.91
⊙		-5.85	-5.85		2786.96
⊕	+6.27		+6.27	2793. ²³	
		-6.48	-6.48		2786.75
		-6.25	-6.25		2786.98
		-6.51	-6.51		2786.72
		-6.25	-6.25		2786.98
		-5.95	-5.95		2787.28
		-2.04	-2.04		2791.19
		-4.91	+7.15		2800.38
		-5.72	+23.19		2816.42
		-4.10	+37.92		2831.15
⊙		-3.45	+49.07		2842.30
⊕	+8.81		+14.06	2856. ³⁶	
		-6.25	-6.25		2850.11

Line	STN	V angle	R.F.	Dist.	Product
152100 ^E	12100 ^S	—		100	-
13	—	—		0	
14	—	—		100	
15	94° 30'	-7.82	202	-15.80	
16	94° 30'	-7.82	302	-23.62	
17100 ^S	94° —	-6.96	400	-27.84	
17100 ^S	267° —	-5.23	402	+21.02	
18	93° —	-5.23	300	-15.69	
19	93° —	-5.23	200	-10.46	
20	—		100		
52100 ^E - 21100 ^S	—		0		
22	89° —	+1.74	99	+1.72	
23	88° —	+3.49	200	+6.98	
24	87° 30'	+4.36	300	+13.08	
25100 ^S	273° 30'	+6.69	400	+24.36	
25100 ^S	87° 30'	+4.36	184	+8.02	
26	272° 30'	+4.36	83	+3.62	
27	—		17		
28100 ^S	103° —	-21.92	120	-26.30	
28100 ^S	71° —	+30.78	213	+65.56	

JOB

DATE PAGE

T.P.	Rod - rdg. B.S. ⁺	F.S. ⁻	Elev. d.	H.I.
				2856.36
		-4.68	-4.68	2851.68
		-5.43	-5.43	2850.93
		-11.05	-11.05	2845.31
		-9.01	-24.81	2831.55
		-4.97	-28.59	2827.77
○		-2.77	-30.61	2825.70
⌈	+9.36		+30.38	2856.13
		-11.31	-27.00	2829.13
		-8.43	-18.89	2837.24
		-11.53	-11.53	2844.60
		-5.63	-5.63	2850.50
		-2.39	-0.67	2855.46
		-4.39	+2.59	2858.72
		-3.49	+9.59	2865.72
○		-3.63	+20.73	2876.86
⌈	+5.43		-2.59	2874.27
		-2.18	+1.44	2875.77
		-8.04	-8.04	2866.23
○		-5.77	-32.07	2842.20
⌈	+2.31		-63.25	2778.95

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Line	STN	V. angle	R.F.	distance	Product
		+ 288°	29.39	108	+31.74
	29+100 ^S	—		0	
	30+100 ^S	—		70	
152+100 ^E	T.L.	—		100	
	31+100 ^S	—			
152+100 ^E	T.L.	96° 30'	11.25	276	+31.05
T.L.	151+100 ^E	262° 30'	12.94	175	-22.65
	150+100 ^E	254° 30'	25.75	76	-19.57
	149	—		26'	
	148	97° 30'	12.94	125	-16.18
	147	96° —	10.40	226	-23.50
T.L.	146+100 ^E	93° 30'	6.09	326	-19.85
T.L.	146+100 ^E	—		500	
	145	—		400	
	144	—		300	
	143	—		200	
	142	—		100	
	141	—		0	
T.L. -	140+100 ^E	—		100	
	139	—		200	
	138	271° —	+1.74	300	+5.22

Next Day

f.P.	Rod - B.S.†	rdg. √ F.S.	Elev. d.	H.I.	Elev.
				2778 ⁹⁵	
		-2.15	+29.59		2808.54
		-5.40	-5.40		2773.50
⊖		-8.69	-8.69		2770.26
		-8.73	-8.73		2770.22
⊖	+2.34		+33.39	2803 ⁶⁵	
		-12.62	-36.27		2768.38
		-8.90	-28.47		2775.18
		-9.08	-9.08		2794.57
		-8.75	-24.93		2778.72
		-5.21	-28.71		2774.94
⊖		-9.54	-29.39		2774.26
⊖	+6.45		+6.45	2780 ⁷¹	
		6.33	-6.33		2774.38
		4.23	-4.23		2776.48
		5.32	-5.32		2775.39
		5.22	-5.22		2775.49
		5.75	-5.75		2774.96
		3.66	-3.66		2777.05
		1.45	-1.45		2779.26
		4.33	+0.89		2781.60

JOB

DATE PAGE 10

Line	STN	V. angle	R.F.	dist.	prod.	
T.L.	138 ^{100°E}					
	137 ^{100°E}	271°-	+1.74	400	+6.96	
	Int. L-126 ^E & T.L.	271°-	+1.74	492'	+8.56	Base Stn.
	"	—		256'		
	136	—		246'		
	135	—		146		
	134	—		46		
	133	—		53		
	132	94°-	-6.96	153'	-16.65	
	131	94°-	-6.96	253'	-17.61	
	130 ^{100°E}	94°-	-6.96	355'	-24.71	
T.L.	"	277°30'	+12.94	400	+51.76	
	129	277°30'	+12.94	303	+39.20	
T.L.	INT. L-128 ^E	277°30'	+12.94	242	+31.31	
	128	277°30'	+12.94	203	+26.27	
	127	275°-	+8.68	101	+8.77	
	126	—		0		
	125	99°-	+15.45	101	-15.60	
	124	99°-	+15.45	202	-31.21	
	123	99°-	+15.45	305	-47.12	

T.P.	rod B.S. +	rdg. I.S. -	Elev. d.	H.I.	Elev.
				2780.71	
		4.55	+2.41		2783.12
		4.13	+4.43		2785.14
0 π	8.02		+8.02	2793.16	
		7.81	-7.81		2785.35
		4.40	-4.40		2788.76
		4.08	-4.08		2789.08
		8.36	-8.36		2784.80
		4.55	-15.20		2777.96
		5.38	-22.99		2770.17
0 π	5.45	6.79	-31.50		2761.66
			-46.31	2715.35	
		4.25	+34.95		2750.35
		4.33	+26.98		2742.33
		4.70	+21.57		2736.92
		2.21	+6.56		2721.91
		5.78	-5.78		2709.57
		4.75	-20.35		2695.00
		3.85	-35.06		2680.29
		2.52	-49.64		2665.81



Line	Sta	V angle	R.F.	dist	prod.
T.L.	122+00 ^E	98°	-13.78	404	-55.67
	"	—		560	
	121+00 ^E	—		400	
Int.	120	—		300	
	119	—		200	
	118	—		100	
	117	—		0	
	116	—		100	
T.L.	115+00 ^E	—		200	
	114	89°	+1.74	300	+5.22
	113+00 ^E	89°	+1.74	400	+6.96
	"	—		400	
	112+00 ^E	- $\frac{1}{2}$		300	
Int T.L.	+112 ^E	91°	-1.74	251'	-4.37
	111+00 ^E	—		200	
	110+00 ^E	—		100	
T.L.	109+00 ^E	—		0	
	108	—		100	
	107	—		200	
T.P.		—		238	
"		83° 40'	+10.96	3.14	-34.41

Rise Sta

T.P.	Redl. B.S.	rdg. F.S.	Elev. d	H.I.	Elev.
				2715 ³⁰	
○		4.83	-60.50		2654.85
⌒	5.78		+5.78	2660.63	
		8.88	-8.88		2651.75
		8.40	-8.40		2652.28
		7.80	-7.80		2652.83
		7.06	-7.06		2653.57
		6.00	-6.00		2654.63
		4.80	-4.80		2655.83
		3.20	-3.20		2657.43
		5.32	-0.10		2660.53
○		2.92	+4.04		2664.67
⌒	+7.38		+7.38	2672.05	
		12.57	-14.07		2657.98
		10.85	-15.22		2656.83 ←
		13.14	-13.14		2658.91
		5.16	-5.16		2666.89
		5.73	-5.73		2666.32
		5.03	-5.03		2667.02
		3.06	-3.06		2668.99
○		3.11	-3.11		2668.94
⌒	1.88		-32.53	2636.41	

Line	Sta	V. angle	R.F.	dist.	Prod.
T.L.	106+00 ^E	274° -	+6.96	247	+17.91
	105	—		149	
T.L.	L-104	—		49'	
T.L. Int	104+00 ^E	—		6	
	103+00 ^E	—		52'	
	102	—		152'	
	101	—		252'	
T.L.	100	—		352'	
	99	—		452'	
T.L.	98+00 ^E	—		552'	
	"	—		65'	
	97+00 ^E	115° -	-38.30	42'	-16.09
	96	112° -	-34.73	152'	-52.79
T.L. inter.	L-96+00 ^E	108° -	-29.39	191	-56.13
T.L.	95+00 ^E	106° -	-26.50	247'	-65.46
	"	89° -	+1.74	553'	-9.40
	94	89° -	+1.74	450'	+7.65
	93	89° -	+1.74	350'	+5.95
	92	89° -	+1.74	252'	+4.28
T.L.	91+00 ^E	89° -	+1.74	152'	+2.58

L-104
T.L. B.Stn

T.P.	Rod	rdg.	Elev. d.	H.I.	Elev.
	B.S. +	F.S. -		2636.41	
		3.22	+14.96		2651.37
		4.89	-4.89		2631.52
		4.53	-4.53		2631.88
		5.49	-5.49		2630.92
		4.32	-4.32		2632.09
		10.87	-10.87		2625.54
		10.29	-10.29		2626.12
		7.47	-7.47		2628.94
		5.43	-5.43		2630.98
		8.26	-8.26		2628.15
⊙	2.91		+2.91	2631.06	2611.48
⋈		3.49	-12.60		2618.46
		4.79	-57.58		2573.48
		5.66	-61.79		2569.27
⊙	2.04	5.34	-70.80	2552.90	2560.26
⋈			-7.36		
		5.80	+1.85		2554.75
		5.08	+0.87		2553.77
		4.61	-0.33		2552.57
		4.10	-1.52		2551.38



JOB

DATE PAGE 13

Line	STN	V. angle	R.F.	Dist.	Prod.
OTd T.L.	90+00 ^E	—		51'	
NEW T.L.	89+00 ^E	—		236'	T.L. - 7N 236'
NEW T.L.	89+00 ^E	—		600	B. STN.
	88	—		500	
	87	—		400	
	86	—		300	
	85	—		200	
T.L.	84+00 ^E	—		100	
	83+00 ^E	—		70	
	82	—		100	
	81	—		200	
	80	—		300	
Q int. (T.L., L-80 ^E)		—		315	
"		—		395	
	79	—		312	
	78	—		212	
	77	—		112	
T.L.	76	—		12	
	75	—		88	
	74	—		188	

JOB

DATEPAGE

T.P.	Red	rdg.	Elev. d.	H.T.	Elev.
	B.S. ⁺	F.S. ⁻		2552.90	
		4.40	-4.40		2548.50
		6.47	-6.47		2546.43
⊙		7.55	-7.55		2545.35
⊗	1.05		+1.05	2546.40	
		3.24	-3.24		2543.16
		4.24	-4.24		2542.16
		4.58	-4.58		2541.82
		5.16	-5.16		2541.30
		5.95	-5.95		2540.45
		6.23	-6.23		2540.12
		6.97	-6.97		2539.43
		8.03	-8.03		2538.37
⊙		7.94	-7.94		2538.46
⊗	4.55		+4.55	2543.01	
		5.34	-5.34		2537.67
		6.19	-6.19		2536.82
		6.47	-6.47		2536.54
		5.27	-5.27		2537.74
		4.55	-4.55		2538.46
		2.83	-2.83		2540.18

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Line	Stn	V. Angle	R.F.	dist.	prod.	
T.L.	73+00 ^E	89° 30'	+0.87	288'	-12.51	
	11	268° 20'	-2.91	434'	+12.63	
	72+00 ^E	91° 30'	-2.62	334	-8.75	
♀ Inter	(T.L., 472 ^E)	91° 30'	-2.62	282	-7.39	R Stn
	71	269° -	-1.74	233	-4.05	
	70	—		132		
	69	—		32		
	68	—		65		
	67	—		165		
	66	91° -	-1.74	265	-4.61	—
T.L.	65+00 ^E	91° -	-1.74	365	-6.35	
♀ inter	T.L.-64 ^E	91° -	-1.74	464	-8.02	
T.L.	64+00 ^E					
T.L.	64+00 ^E	90° 30'	-0.87	400	+3.48	
	63	269° 30'	-0.87	300	-2.61	
	62	—		200		
	61	—		100		
T.L.	60+00 ^E	—		0		
	59	—		100		
	58	—		200		
T.L.	57+00 ^E	—		300		

JOB

DATE PAGE

T.P.	Rod - B.S. ⁺	rdg F.S. ⁻	Elev. d	H.I.	Elev.
				2543. ⁰¹	
⊙		1.68	+0.83		2543.841
⊕	+3.71		+16.34	2560. ¹⁸	
		4.60	-13.35		2546.83
		4.15	-11.54		2548.64
		5.40	-9.45		2550.73
		6.26	-6.26		2553.92
		5.15	-5.15		2555.03
		5.47	-5.47		2554.71
		7.72	-7.72		2552.46
		4.57	-9.18		2551.00
		5.90	-12.25		2547.93
⊙		4.72	-12.79		2547.39
⊕	+6.70		+10.18	2557. ⁵⁷	
		5.77	-8.38		2549.19
		6.29	-6.29		2551.28
		6.03	-6.03		2551.54
		5.40	-5.40		2552.17
		5.40	-5.40		2552.17
		5.55	-5.55		2552.02
		5.21	-5.21		2552.36

PARTY CHIEF

WEATHER



Line	Sta	V. angle	R. F.	Dist.	Procl.
T.L.	56+00 ^E	—		400	
Int. T.L.	+ 56 ^E	—		452	
"	"	267°	5.23	248	+12.97
T.L.	55+00 ^E	267°	5.23	200	-16.46
	54	267°	5.23	100	-5.23
	53	—		0	
	52	—		100	
	51	—		200	
T.L.	50+00 ^E	—		300	
"	"	93° 30'	6.09	366	+22.29
T.L.	49+00 ^E	266° 30'	6.09	274	-16.69
T.L.	48+00 ^E	267°	5.23	172	-9.0
Int. T.L.	+ L-48 ^E	—		134'	
T.L.	47+00 ^E	—		71'	
	46	—		30'	
T.L.	45+00 ^E	93°	5.23	130'	-6.80
	44+00 ^E	93°	5.23	230	-12.03
T.L.	43+00 ^E	267°	5.23	330	-17.26
—	"	—		450	
	42	—		350	



JOB

DATE PAGE

T.P.	Rod - B.S.†	rdg. F.S. -	Elev. of	H.I.	Elev.
				2557.57	
		4.88	-4.88		2552.69
0		1.33	-1.33		2556.24
⌈	+ 8.08		+21.05	2577.29	
		5.25	-15.71		2561.58
		4.00	-9.23		2568.06
		5.71	-5.71		2571.58
		6.80	-6.80		2570.49
		6.01	-6.01		2571.28
0	5.49	5.49	-5.49		2571.80
⌈	+ 5.55		+27.84	2599.64	
		5.49	-22.18		2577.36
		5.70	-14.70		2584.94
		11.08	-11.08		2588.56
		7.13	-7.13		2592.51
		5.87	-5.87		2593.77
		4.96	-11.76		2587.88
		5.80	-17.83		2581.81
0		4.21	-21.47		2578.17
⌈	+ 2.72		+ 2.72	2580.89	
		3.92	-3.92		2576.97

PARTY CHIEF

WEATHER



LINE	STN	V. Angle	R.F.	Dist.	prod.
T.L.	41+00 ^E	—		250	
Int. T.L.	L-40 ^E	—		189	
T.L.	40 ^E	—		150	
	39 ^E	—		50	
	38	—		50	
	37	278°	13.78	150	+20.67
	36	278°	13.78	250	+34.45
TP		278° 30'	14.62	292'	+42.69
		—		260	
T.L.	35+00 ^E	—		200	
	34	—		100	
T.L.	33+00 ^E	—		0	
	32	85°	8.68	99	+8.59
Inter. T.L.	L-32 ^E	85°	8.68	180	+15.62
	31	85°	8.68	200	+17.36
T.L.	30+00 ^E	274° 30'	7.82	300	+23.46
	11	96°	10.40	280	+29.12
T.L.	29+00 ^E	264°	10.40	178	-18.51
	28	267°	5.23	76	-3.97
T.L.	27+00 ^E	—		25	



T.P.	Rod reading B.S. ⁺ F.S.	Elev. d	H.I.	Elev.
			2580.89	
	6.68	-6.68		2574.21
	6.61	-6.61		2574.28
	6.98	-6.98		2573.91
	6.18	-6.18		2574.71
	2.29	-2.29		2578.60
	1.64	+19.03		2599.92
	4.70	+29.75		2610.64
	6.58	+36.11		2617.00
⊙ A	+8.32	+8.32	2625.32	
	11.43	-11.43		2613.89
	5.70	-5.70		2619.62
	5.50	-5.50		2619.82
	3.75	+4.84		2630.16
	4.65	+10.97		2636.29
	4.15	+13.21		2638.53
	4.96	+18.50		2643.82
⊙ A	+3.56	+32.68	2676.50	
	8.77	-27.28		2649.22
	4.87	-8.84		2667.66
	7.88	-7.88		2668.62



Line	Sta	V. angle	R.F.	dist.	prod.
T.L.	26+00 ^E	—		125	
	25	—		225	
	24	—		325	
Int. T.L.	24+00 ^E	—		357	
	—	93° -	5.23	367	+19.19
	23+00 ^E	93° -	5.23	303	-15.85
T.L.	22+00 ^E	93° -	5.23	202	-10.56
	21+00 ^E	—		100	
	20	—		0	
T.L.	19+00 ^E	271° -	1.74	100	+1.74
T.L.	18+00 ^E	272° 30	4.36	200	+8.72
	—	96° -	10.40	196'	+20.38
	17+00 ^E	264° -	10.40	94'	-9.78
int. T.L.	16+00 ^E	—		0	
T.L.	15+00 ^E	86° -	6.96	107	+7.45
	14+00 ^E	86° -	6.96	208	+14.48
T.L.	13+00 ^E	86° -	6.96	307	+21.37
T.P.	—	85° 45'	7.39	365	+26.97
	—	94° -	6.96	346	+24.08
T.P.	12+00 ^E	94° -	6.96	301	-20.95

T.P.	Rad	rdg	Elev. d.	H.I.	Elev.
	B.S. +	F.S. -		2676.50	
		8.49	-8.49		2668.01
		7.39	-7.39		2669.11
		5.59	-5.59		2670.91
○		3.45	-3.45		2673.05
∧	+3.43		+22.62	2695.67	
		3.78	-19.63		2676.04
		6.31	-16.87		2678.80
		10.00	-10.00		2685.67
		5.53	-5.53		2690.14
		4.02	-2.28		2693.39
○		1.53	+7.19		2702.86
∧	+6.10		+26.48	2729.34	
		6.89	-16.67		2712.67
		5.75	-5.75		2723.59
		3.98	+3.47		2732.81
		3.02	+11.46		2740.80
		3.17	+18.20		2747.54
○		3.18	+23.79		2753.13
∧	+2.75		+26.83	2779.96	
		5.20	-26.15		2753.81

Line	Sfn	V. angle	R.F.	dist.	Product.
T.L.	11400 ^E	95° -	8.68	201	-17.45
	10	94° -	6.96	100	-6.96
	9400 ^E	—		0	
	8	274° 30'	7.82	101	+7.90
inter T.L. & L-8 ^E		275° 30'	9.54	135	+12.88
		91° 30'	2.62	327	+8.57
T.L.	7400 ^E	268° 30'	2.62	259	-6.79
	6400 ^E	268° 30'	2.62	158	-4.14
	5	—		58	
	4400 ^E	—		42	
	3	84° 30'	9.54	142	+13.55
T.L.	2400 ^E	84° 45'	9.11	243	+22.14
	11 -	94° 30'	7.82	400	+31.28
T.L.	1400 ^E	265° 30'	7.82	300	-23.46
TL	0400	265° 30'	7.82	200	-15.64
Int T.L. & L-0		265° 30'	7.82	185	-14.47
TL,	1400 ^w	265° 30'	7.82	100	-7.82
	2400 ^w	—		0	
	3400 ^w	—		100	
	4400 ^w	89° -	1.74	200	+3.48

T.P.	Rod reading		Elev. d	H.I.	Elev.
	B.S. ⁺	I.S. ⁻			
				2779.96	
		3.95	-21.40		2758.56
		5.30	-12.26		2767.75
		5.66	-5.66		2774.30
		1.80	+6.10		2786.06
○		2.94	+9.94		2789.90
π	+3.48		+12.05	2801.95	
		5.75	-12.54		2789.41
		6.65	-16.79		2791.16
		7.40	-7.40		2794.55
		2.54	-2.54		2799.41
		4.38	+9.17		2811.12
○		5.95	+16.19		2818.14
π	+6.57		+37.85	2855.99	
		6.82	-36.28		2825.71
		4.52	-20.16		2835.83
		4.54	-19.01		2836.98
		6.97	-14.79		2841.20
		5.93	-5.93		2850.06
		3.28	-3.28		2852.71
		2.52	+0.96		2856.95

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WEATHER

Line	Sta.	V. angle	R.F.	dist.	prod.
T.L.	5+00 ^w	87° 45'	3.92	301	+11.80
		91° 30'	2.62	368	+9.64
	6+00 ^w	91° 30'	2.62	267	-7.00
	7+00	92° 30'	4.36	168	-7.32
Int. T.L. + 8 ^w		92° 30'	4.36	114	-4.97
	8 ^w	92° 30'	4.36	68	-2.96
	9	—		33	
T.L.	10+00 ^w	274° -	6.96	134	+9.33
TL	11+00 ^w	273° 30'	6.09	234	+14.25
		268° -	3.49	70	+2.44
	12+00 ^w	—		30'	
	13+00 ^w	89° -	1.74	130	+2.26
	14+00 ^w	86° 30'	6.09	232	+14.13
	15+00 ^w	86° 30'	6.09	330	+20.10
Int. T.L. + 16 ^w		86° 30'	6.09	410	+24.97
		265° -	8.68	4.17	+36.20
T.L.	16+00 ^w	95° -	8.68	403	-34.98
	17+00 ^w	95° -	8.68	302	-26.21
	18+00 ^w	95° -	8.68	201	-17.45
T.L.	19+00 ^w				

Int. T.L.

T.P.	Rod B.S. †	rdg. F.S.	Elev. d.	H.I.	Elev.
				2855.99	
⊙		2.47	+9.33		2865.32
⌒	+5.55		+15.19	2880.51	
		3.62	-10.62		2869.89
		5.81	-13.13		2867.38
8 w		3.30	-8.27		2872.24
		6.03	-8.99		2871.52
		3.07	-3.07		2877.44
		6.16	+3.17		2883.68
⊙		3.90	+10.35		2890.86
⌒	+7.18		+9.62	2900.48	
		6.45	-6.45		2894.03
		1.90	+0.36		2900.84
		4.39	+9.74		2910.22
		2.76	+17.34		2917.82
⊙		3.73	+21.24		2921.72
⌒	+4.55		+40.75	2962.47	
		5.63	-40.61		2921.86
		4.63	-30.84		2931.63
		4.40	-21.85		2940.62

Line	St.N.	V. angle	R. F.	Dist	product
T.L.	19+00 W	90° -	8.68	100	-8.68
	20+00 W	—		0	
	21+00 W	86° -	6.96	101	+7.23
	22+00 W	86° -	6.96	200	+13.92
	23+00 W	86° -	6.96	300	+20.88
	24+00 W	86° -	6.96	403	+28.05
Ant T.L. + h-24'		86° -	6.96	447	+31.11
T.P.		93° 30'	6.09	357	+21.74
T.L.	25+00 W	93° 30'	6.09	301	-18.33
	26+00 W	93° 30'	6.09	199	-12.72
	27+00 W	93° 30'	6.09	100	-6.09
	28+00 W	—		0	
	29+00 W	89° -	1.74	100	+1.74
T.L.	30+00 W	87° -	5.23	200	+10.46
T.P.	—	—		100	
	31+00 W	—		0	
T.L.	32+00 W	83° 30'	11.25	103	+11.59
T.L.	ENDS AT 32+00 W				

30+80 S



T.P.	Red. reading B.S. ⁺ F.S.	Elev. d	H.I.	Elev.
			2962.47	103
	4.79	-13.47		2949.00
	6.14	-6.14		2956.33
	4.82	+4.77		2964.68 2967.44
	2.83	+11.09		2973.56
	2.02	+18.86		2981.33
	4.06	+23.99		2986.46
⊙	5.53	+25.58		2988.05
⊗	+2.27	+24.01	3012.06	
	3.86	-22.19		2989.87
	5.43	-17.55		2994.51
	5.08	-11.17		3000.89
	5.38	-5.38		3006.68
	1.98	-0.24		3011.82
⊙	2.17	+8.29		3020.35
⊗	+6.32	+6.32	3026.67	
	5.73	-5.73		3020.94
	4.22	+7.37		3034.24



Line	HTN	V. Angle	R.F.	Dist.	procl.
32 ^w	30+80 ^s	—		201	
	30+00 ^s	—		123	
	29	—		23	
	28	—		79	
	27	+ 1/2		179	+ .90
32 ^w	26+00 ^s	89° -	1.74	278	+4.84
	T. P.	88° 30'	2.62	320	+8.38
		117° -	40.45	177	+71.60
32 ^w	25 ^s	243° -	-40.45	110	-44.56
	24 ^s	—		4	
	T. P.	79° -	18.73	82	+15.36
		—		78	
32 ^w	23 ^s	—		58	
	22	111° 30'	-34.10	46	-15.69
	21+00 ^s	111° 30'	-34.10	156	-53.20
32 ^w	20+00 ^s	110° 15'	32.47	262	-85.07
	T. P.	84° 30'	9.54	198	-18.89
32 ^w	19+00 ^s	270° 30'	0.87	99	+0.86
	18 ^s	—		0	
	17 ^s	92° 30'	4.36	99	-4.32
32 ^w	16 ^s	92° 30'	4.36	198	-8.63

JOB

DATE PAGE

T.P.	Rod	reading	Elevd	H.I.	Elev.
					3034.04
π	+6.55		+6.55	3040.59	
		8.68	-8.68		3031.91
		5.59	-5.59		3035.00
		3.86	-3.86		3036.73
		4.32			
		5.88	-1.04		3039.55
○		1.44	+6.94		3047.53
π	4.74		+76.34	3123.87	
		7.47	-51.97		3071.90
		4.09	-4.09		3119.78
○		1.90	+13.46		3137.33
π	+7.43		+7.43	3144.76	
		10.08	-10.08		3134.68
		6.50	-22.19		3122.57
		4.97	-58.17		3086.59
○		1.75	-86.82		3057.94
π	+3.95		+14.94	3043.00	
		5.58	-4.72		3038.28
		5.63	-5.63		3037.37
		5.51	-9.83		3033.17
		6.47	-15.10		3027.90

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Line	Hr	V. angle	R.F.	Dist.	Prod.
32 ^w	15 ^s	93°—	5.23	297'	-15.53
-T.P.-	—	—	—	197'	—
	14	—	—	98'	—
	13	—	—	0	—
32 ^w	12 ^s	—	—	100	—
-T.P.-	—	85°—	8.68	99'	-8.59
32 ^w	11 ^s	—	—	0	—
32 ^w	10 ^s	105°30'	25.75	102	-26.27
-T.P.-	—	88°30'	2.62	197 ²⁹⁷	-7.78
	9	271°—	1.74	198	+3.45
	8	—	—	99	—
	7	—	—	0	—
	6	—	—	99	—
	5	—	—	200	—
32 ^w	4 ^s	—	—	300	—
32 ^w	3 ^s	269°30'	0.87	398	-3.46
-T.P.-	—	—	—	201	—
	2 ^s	—	—	100	—
	1 ^s	—	—	0	—
32 ^w	B.L.	—	—	108	—

PARTY CHIEF

WEATHER

T.P.	Red	rdg.	H.I.	
	B.S. ⁺	I.S. ⁻		3048.00
⊙		5.56	-21.09	3021.91
⊖	5.28		+5.28	3027.93
		5.24	-5.24	3021.95
		6.05	-6.05	3021.88
⊙		7.00	-7.00	3020.19
⊖	4.99		-3.60	3016.59
		6.35	-6.35	3010.24
⊙		6.78	-33.00	2983.59
⊖	3.50		-4.28	2979.31
		4.05	-0.60	2978.71
		3.85	-3.85	2975.46
		6.14	-6.14	2973.17
		6.66	-6.66	2972.65
		7.49	-7.49	2971.82
		8.20	-8.20	2971.11
⊙		3.91	-7.37	2971.94
⊖	4.43		+4.43	2976.37
		4.50	-4.50	2971.87
		5.68	-5.68	2970.69
		6.93	-6.93	2969.44
			bust 11.01	2970.45

SEE page 37

PARTY CHIEF

WEATHER



LINE	STN	V. Angle	R.F.	Dist.	Prod.
40400 ^E	B.L.	87° -	+5.23	417	-21.81
	1 ^S	88° 30'	+2.62	306	+8.02
	2 ^S	89° -	+1.74	208	+3.62
	3 ^S	—		108	
	4 ^S	—		8	
	5 ^S	—		92	
40 ^E	6 ^S	91° -	1.74	188	-3.27
- T.P. -		82° 45'	12.52	500	-62.60
40 ^E	7 ^S	277° 15'	+12.52	398	+49.83
	8	277° 15'	+12.52	300	+37.56
	9	277° 15'	+12.52	200	+25.04
	10	277° -	+12.10	102	+12.34
40 ^E	11 ^S	—		5	
	12	112° -	-34.73	107	-37.16
40 ^E	13 ^S	254° 30'	-25.75	204	-52.53
- T.P. -		91° 30'	-2.62	215	+5.63
	14 ^S	266° -	-6.96	117	-8.14
	15 ^S	—		17	
40 ^E	16 ^S	87° -	+5.23	80'	+4.18
- T.P. -		277° -	+12.10	162	-19.60
	17 ^S	277° -	+12.10	61	+7.38



L - 40700 E

JOB

DATE PAGE

T.P.	Rod - B.S. ⁺	reading F.S.	Elev. d	H.I. B.L.	Elev.
					3000.00
π	3.04		-18.77	2981.23	
		1.76	+6.30		2987.53
		3.19	+0.43		2981.66
		5.14	-5.14		2976.09
		5.39	-5.39		2975.84
		5.81	-5.81		2975.42
○		11.34	-14.61		2966.62
π	5.49		-57.11	2909.51	
		4.10	+45.28		2954.79
		5.02	+32.54		2942.05
		2.54	+22.56		2932.01
		3.08	+9.26		2918.77
		5.65	-5.65		2903.86
		5.63	-42.76		2866.75
○		8.85	-61.38		2848.13
π	2.72		+8.35	2856.48	
		3.92	-12.06		2844.42
		6.76	-6.76		2849.72
○		2.90	+1.28		2857.76
π	6.11		-13.49	2844.27	
		2.41	+4.97		2849.24

PARTY CHIEF

WEATHER



JOB

DATE PAGE 22

LINE	STN	V. angle	R.F.	dist.	prod.
40700 ^E	18700 ^S	100° -	-17.10	36.	-6.16
	19	100° -	-17.10	136	-23.24
40700 ^E	20700 ^S	258° -	20.34	240	-48.82
- T.P. -		84° 30'	9.54	209	-19.94
	21	275 30'	+ 9.54	109	+10.40
	22	—		9	
40700 ^E	23700 ^S	100° -	17.10	90	-15.39
- T.P. -		279° -	15.45	300	-46.35
40700 ^E	24700 ^S	277° -	+12.10	199	+24.08
	25700 ^S	277° -	+12.10	99	+11.98
	26700 ^S	—		0	
	27700 ^S	102° -	-20.34	103	-20.95
40700 ^E	28700 ^S	102° -	-20.34	205	-41.70
- T.P. -		101° 30'	-19.54	272	-53.15
- T.P. -		62° -	+41.45	179	-73.78
40700 ^E	29700 ^S	298° -	+41.45	141	+58.54
40700 ^E	30700 ^S	283° -	+21.92	22	+4.82
40700 ^E	31700 ^S	—		87'	

Int. T.L.
a L-40

T.P.	Rod reading	Elev. d.	H.I.	Elev.
	B.S. +	F.S. -	2844. ²⁷	
		7.70		2830.41
		12.13		2808.90
○		3.47		2791.98
⊗	4.28	15. ⁶⁶	2776. ³²	
		5.60		2781. ¹²
		4.65		2771. ⁶⁷
○		3.86		2757.07
⊗	1.48	44. ⁸⁷	2712. ²⁰	
		1.30		2734.98
		2.29		2721.89
		5.43		2706.77
		4.41		2686.84
		5.40		2665.10
○		2.30		2656.75
⊗	3.83	69. ⁹⁵	2586. ⁸⁰	
		1.32		2644.02
		1.20		2596.42
		12.37		2574.43
			(T.L.	2574.28)
			Tie	0.15

Line	Stn	V. ANGLE	R.F.	dist.	Procl.	
24+00 ^w	30+40 ^s	272° -	+3.49	140	+4.89	Int. T.L 8 124 ^w
	30+00 ^s	272° -	+3.49	62	+2.16	
	29+00 ^s	—	—	36		
	28+00 ^s	266° -	-6.96	135	-9.40	
	T.P.	—	—	99'		
	27+00 ^s	—	—	0		
	25	76° -	+23.47	101	+23.70	
	25	75° -	+25.00	204	+51.00	
	T.P.	75° -	+25.00	224	+56.00	
	T.P.	88° 30'	+2.62	277	-7.26	
	24+00 ^s	271° 30'	+2.62	197	+5.16	
	23	271° -	+1.74	99	+1.72	
24+00 ^w -	22+00 ^s	—	—	0		
	21+00 ^s	95° 30'	-9.54	100	-9.54	
	20+00 ^s	94° -	-6.96	200	-13.92	
	"	84° 30'	+9.54	227	-21.66	
	19+00 ^s	85° 30'	+7.28	127	+9.25	
	18+00 ^s	—	—	28		
	17	—	—	70		
	16+00 ^s	84° 30'	+9.54	169	+16.12	
	T.P.	85° -	+8.68	224	+19.44	
	"	85° -	+8.68	152'	-13.19	



T.P.	Rad - rdg.	Flev. d.	H.I.	Elev.
	B.S. ⁺	F.S. ⁻		2988.05
π	6.30		2989 ⁴⁶	
		185	+1.41	2989.77
		854	+0.31	2989.77
			-8.54	2980.92
○		2.75	-12.15	2977.31
π	11.68		+11.68	2988 ⁹⁹
		5.38	-5.38	2983.61
		2.58	+21.12	3010.11
		2.13	+48.87	3037.86
○		3.41	+52.59	3041.58
π	9.71		+2.45	3044.03
		3.82	+1.84	3045.87
		2.87	-1.15	3042.88
		5.55	-5.55	3038.48
		3.57	-13.11	3030.92
○		5.80	-19.72	3024.81
π	+3.42		-18.24	3006.07
		6.53	+2.72	3008.79
		6.02	-6.02	3000.05
		2.39	-2.39	3003.68
		3.48	+12.64	3018.71
○		4.27	+15.17	3021.24
π	3.15		-10.04	3011.20



Line	Stn	ANGLE	R.F.	dist.	product
24400 ^w	15400 ^s	85° -	+8.68	107	+9.29
	14	—		7'	
	13	95° -	-8.68	92'	-7.99
	12	93° -	-5.23	191	-9.99
24400 ^w	11400 ^s	92° 30'	-4.36	291'	-12.69
	T.P.	87° 30'	+4.36	270	-11.75
24400 ^w	10400 ^s	273° -	+5.23	171	+8.94
	9400	—		73	
	8400 ^s	—		27	
	7400	94° -	-6.96	127	-8.84
24400 ^w	6400 ^s	93° -	-5.23	225	-11.77
	5400 ^s	267° -	-5.23	325	-17.00
	T.P.	—		200	
24400 ^w	4400 ^s	—		100	
	3400 ^s	—		0	
	2	—		100	
24400 ^w	1400 ^s	—		200	slush
24400 ^w	B.L.	—		300	
	T.P.	—		200	
28400 ^w	B.L.	—		200	Base Sta

T.P.	Red + B.S.	rdg F.S.	Elev. d.	H.I. 3011.20	Elev.
		2.48	+6.81		3018.01
		4.67	-4.67		3006.53
		6.40	-14.39		2996.81
		4.34	-14.33		2996.87
○		5.51	-18.20		2993.00
π	2.37		-9.38	2983.62	
		5.80	+3.14		2986.76
		3.54	-3.54		2980.08
		7.14	-7.14		2976.48
		3.92	-12.76		2970.86
		3.38	-15.15		2968.47
○		3.53	-20.53		2963.09
π	2.98		+2.98	2966.07	
		5.63	-5.63		2960.44
		5.67	-5.67		2960.40
		5.66	-5.66		2960.41
		5.70	-5.70		2960.37
○		5.71	-5.71		2960.36
π	5.50		+5.50	2965.56	
		3.60	-3.60		2962.26
					Tic 2962.07
					0.19



LINE	STN	V. Angle	R.F.	dist.	product
16700 ^w	B.L.	—		11	
	1400 ^s	—		100	
	2	—		200	
	3400 ^s	—		293'	
T.P.	"	265°	-8.68	298'	+25.87
	4	265°	-8.68	200	-17.36
	5	265°	-8.68	100	-8.68
16700 ^w	6400 ^s	—		0	
	7	87°	+5.23	99'	+5.18
	8	87°	+5.23	198	+10.36
	9400 ^s	86°	+6.96	295	+20.53
T.P.		85° 45'	+7.39	354	+26.16
	—	—		350	
	10400 ^s	—		304	
	11	—		204	
	12400 ^s	—		104	
	13	—		4	
	14	—		96'	
16700 ^w	15700 ^s	93° 30'	-6.09	192	-11.69
—	T.P.	87°	+5.23	370	-19.35
	16700 ^s	—		270	



T.P.	rod	rdy.	Elev. d	H.I.	Elev.
	B.S. ⁺	F.S.			2962.07
π	6.02		+6.02	2968.09	Tie 0.01
		5.59	-5.59		2962.50
		5.59	-5.59		2962.50
0		5.73	-5.73		2962.36
π	+5.14		+31.01	2993.37	
		3.36	-20.72		2972.65
		3.95	-12.63		2980.74
		5.63	-5.63		2987.74
		3.13	+2.05		2995.42
		3.03	+7.33		3000.70
		2.25	+18.28		3011.65
0		3.59	+22.57		3015.94
π	+3.26		+3.26	3019.20	
		3.07	-3.07		3016.13
		2.07	-2.07		3017.13
		3.07	-3.07		3016.13
		5.47	-5.47		3013.73
		8.37	-8.37		3010.83
0		4.27	-15.96		3003.24
π	+4.33		-15.02	2988.22	
		2.24	-2.24		2985.98

JOB

L - 16 + 00 W

DATE

PAGE 2.6

Line	St N	V. angle	R.F.	dist.	procl.
16 W	17+00 ^S	93° —	-5.23	171	-8.94
	18	93° —	-5.23	73	-3.82
	19	100° —	-17.10	27	-4.62
16 W	20+00 ^S	161° 30'	-19.54	130	-25.40
T.P.	11	98° 30'	-14.62	237'	+34.65
	21	100° —	-17.10	137	-23.43
	22	100° —	-17.10	37	-6.33
	23	82° 30'	+12.94	64'	+8.28
T.P.		84° 30'	+9.54	112'	+10.68
T.P.		87° —	+5.23	186	-9.73
	24+00 ^S	87° —	+5.23	174	+7.01
	25	—	—	36'	—
	26	97° 30'	-12.94	65'	-8.41
16 W	27+00 ^S	260° 30'	-16.28	162'	-26.73
T.P.		78° —	+20.34	106'	-21.56
	28	—	—	6'	—
	29	101° 36'	-19.54	97'	-18.95
T.P.	—	89° —	+1.74	116	-2.02
16 W	30+00 ^S	—	—	15	—
T.L.	—	—	—	61'	—

30+80^S
16 W

T.P.	Rod - B.S. ⁺	rdg F.S. ⁻		
		4.27	-13.21	2988.22
		3.92	-7.74	2975.01
		6.12	-10.74	2980.48
⊙		2.43	-27.83	2977.48
⌒	3.73		+38.38	2960.39
		4.46	-27.89	2998.77
		4.49	-10.82	2970.88
		5.10	+3.18	2987.95
⊙		2.08	+8.60	3001.95
⌒	6.86		-2.87	3007.37
		3.16	+3.85	3004.50
		1.56	-1.56	3008.35
		5.74	-14.15	3002.74
⊙		-6.10	-32.83	2990.85
⌒	+1.92		-19.64	2971.67
		3.96	-3.96	2952.03
⊙		4.09	-23.04	2948.07
⌒	1.68		-0.34	2928.99
		5.52	-5.52	2928.65
		6.93	-6.93	2922.13
				2921.72

T.L. & 16100 W
Page

LINE	STN	V. Angle	R.F.	dist.	prod.	
						Int. T.L. +85
8+00 W	30+80 ^S	100° 30'	-17.92	145'	+25.98	
	30+00 ^S	100° 30'	-17.92	61'	-10.93	
	29+00 ^S	82° 30'	+12.94	39'	+5.05	
	28+00 ^S	77° 30'	+21.13	141	+21.79	27.70
	T.P.	77° 30'	+21.13	221	+46.70	
		93° -	-5.23	132	+6.90	
	27+00 ^S	267° -	-5.23	112	-5.91	
	26	—		113		
	25	96° -	-10.40	87'	-9.05	
	24	95° 30'	-9.54	187'	-17.84	
8+00 W	23+00 ^S	95° 30'	-9.54	287	-27.38	
	T.P.	89° -	+1.74	2.22	-4.04	
	22	—		135		
	21	—		33		
	20+00 ^S	—		67'		
8+00 W	19+00 ^S	84° 30'	+9.54	161	+15.36	
	T.P.	98° 40'	-14.90	200	+29.80	
8+00 W	18+00 ^S	98° -	-13.78	99	-13.64	
	17	—		0		
	16	82° 30'	+12.94	100	+12.94	
8+00 W -	15+00 ^S	80° 30'	+16.28	201	+32.72	



T.P.	Rod reading B.S. ⁺	F.S. ⁻	Elev. d.	H.I.	Elev.
					T.L. + 8 toos ^w
					page 2872.24
π	+3.36		+29.34	2901.58	
		2.22	-13.15		2888.43
		3.86	+1.19		2902.77
		3.55	+26.24		2927.82 *
o		6.09	+40.61		2942.19
π	+5.56		+12.46	2954.65	
		3.32	-9.23		2945.42
		4.64	-4.64		2950.01
		3.98	-13.03		2941.62 *
		4.04	-21.88		2932.77
o		4.26	-31.64		2923.01
π	+3.00		-1.04	2921.97	
		6.03	-6.03		2915.94
		7.11	-7.11		2914.86
		1.50	-1.50		2920.47
o		2.05	+13.31		2935.28
π	6.98		+36.78	2972.06	
		3.16	-16.80		2955.26
		5.03	-5.03		2967.03
		2.50	+10.44		2982.50
		3.15	+29.57		3001.63

LINE	Sta	V. angle	R.F.	dist.	prod.
8+00 ^w	T.P.	80° -	+17.10	248	+42.41
—	T.P.	95° 40	-9.83	170	+16.71
	14+00 ^s	265° 30'	-7.82	119	-9.31
	13	—	.	19'	
	12	95° -	-8.68	79'	-6.86
	11	96° -	-10.40	180'	-18.72
8+00 ^w	10+00 ^s	95° -	-8.68	279'	-24.22
	9+00 ^s	94° 30'	-7.82	377'	-29.48
—	T.P.	91° -	-1.74	335'	+5.83
8+00 ^w	8+00 ^s	269° -	-1.74	235'	-4.09
	7	269° -	-1.74	137	-2.38
	6	265° -	-8.68	38'	-3.30
	5	—		61'	
	4	92° -	-3.49	160	-5.58
8+00 ^w	3+00 ^s	92° -	-3.49	258	-9.00
	T.P.	92° -	-3.49	306	-10.68
—	TP -	84° -	+10.40	255'	-26.52
	2+00 ^s	276° -	+10.40	200	+20.80
	1+00 ^s	276° -	+10.40	100	+10.40
	B.L.	—		0	

T.P.	Rod - reading	Elev. d	H.I.	Elev.
	B.S. ⁺	F.S. ⁻	2972.06	
○		2.65		3011.82
⌈	6.39		3034.92	
		6.37		3019.24
		5.56		3029.36
		6.14		3021.92
		5.05		3011.15
		4.49		3006.21
○		2.40		3003.04
⌈	+2.68		3011.50	
		6.31		3001.15
		5.89		3003.28
		6.18		3002.07
		4.01		3007.54
		4.05		3001.92
		5.64		2996.91
○		6.93		2993.94
⌈	5.28		2972.70	
		3.36		2990.14
		5.08		2978.02
		5.55		2967.15
				0.22 Tie

PARTY CHIEF

WEATHER

B.L. 2967.37



LINE	Sta	V. angle	R.F.	dist.	prod.	
0400	- 30475 ^S	—		124'		Int. T.L. of 0400
	30	—		50		
	29	—		51'		
	28	89° -	+1.74	146	+25.4	
	27	88° 30'	+2.62	246	+6.45	
	T.P.	91° -	-1.74	165	+2.87	
	26	—		66		
	25	—		31		
	24400 ^S	—		131		
0400	- T.P.	93° -	-5.23	166	+8.68	
	23	94° -	-6.96	67	-4.66	
	22	—		31		
0400	21400 ^S	84° 30'	+9.54	132	+12.59	
	T.P.	91° -	-1.74	232'	+4.04	
0400	20400 ^S	91° -	-1.74	132'		
	19	91° -	-1.74	35'		
	18	87° -	+5.23	61'		
	T.P.	81° 30'	+14.62	129'	+18.86	
	T.P.	109° 30'	-31.47	145'	+45.63	
0400	- 17400 ^S	252° -	-29.39	105		

JOB

DATE PAGE

T.P.	Rod- + P.S.	reading F.S.	Elev.d.	H.I.	Elevation
				Page 18	(2836.98)
⊗	+9.28		+9.28	2846. ²⁶	
		3.82	-3.82		2842.44
		4.56	-4.56		2841. ⁷⁰
		2.18	+0.36		2846. ⁶²
⊙		1.95	+4.50		2850.76
⊗	+6.11		+8.98	2859. ⁷⁴	
		5.39	-5.39		2854.35
		5.98	-5.98		2853.76
⊙		4.51	-4.51		2855. ²³
⊗	+3.02		+11.70	2866. ⁹³	
		6.41	-11.07		2855.86
		3.32	-3.32		2863.61
⊙		6.18	+6.41		2873.34
⊗	+4.29		+8.33	2881. ⁶⁷	
		6.97			
		6.39			
		2.37			
⊙		1.71	+17. ¹⁵		2898.82
⊗	+4.97		+50.60	2949. ⁴²	
		8.17			

SEE page 30-A

PARTY CHIEF

WEATHER



JOB

L. 0+00

DATE

PAGE

30

LINE	STN	V. angle	R.F.	dist.	prod.
0+00	16+00^S	—	—	2	—
6+00	15+00 ^S	—	—	95'	—
	T.P.	88° 45'	+2.18	198	-4.32
6+00	14+00 ^S	—	—	99	—
	13	—	—	0	—
	12	88°	+3.49	98	+3.42
	11	85°	+8.68	199	+17.27
0+00	10+00 ^S	85°	+8.68	305	+26.04
0+00	T.P.	263°	12.10	174	+21.05
0+00	9+00 ^S	93°	-5.23	73	-3.82
	8	—	—	25	—
	7	—	—	123	—
0+00	6+00 ^S	92°	-3.49	222	-7.75
	T.P.	87°	+5.23	295	-15.43
0+00	5+00 ^S	273°	+5.23	198	+10.36
	4+00	273°	+5.23	99	+5.18
	3+00 ^S	—	—	0	—
	2	—	—	100	—
0+00	1+00 ^S	—	—	200	—
0+00	B.L.	—	—	295	—

T.P.	Rod B.S. ⁺	reading F.S.	Elev. d	H.I.	Elev.
		5.98			
○		6.68	-6.68		2942.27
⊥	+2.07		-2.25	2940.92	
		9.44	-9.44		2930.58
		5.25	-5.25		2934.77
		2.31	+1.11		2941.13
		2.17	+15.10		2955.12
○		5.16	+20.88		2960.90
⊥	3.48		+24.53	2985.43	
		11.47	-15.29		2970.14
		6.26	-6.26		2979.17
		9.75	-9.75		2975.68
○		4.85	-12.60		2972.83
⊥	4.19		-11.24	2961.59	
		5.13	+5.23		2966.82
		5.60	-0.47		2961.12
		5.34	-5.34		2956.25
		9.15	-9.15		2952.44
		9.21	-9.21		2952.38
		4.00	-4.00		2957.59
					40 - (2957.59)
					0.00 TIE

Page

PARTY CHIEF

WEATHER



JOB

L - 8400^E

DATE

PAGE

31

LINE	STN	V. L	R.F.	dist.	prod.
8400 ^E					
	B.L.	270° 30'	+ 0.87	293'	-2.55
	1400 ^S	—		196	
	2	—		96	
	3	—		0	
	4	—		99	
	5	89° -	+ 1.74	198	+3.45
	6400 ^S	271° -	1.74	295	+5.13
	T.P.	273° -	5.23	184	-9.62
	7400 ^S	273° -	+5.23	86	+4.50
	8400 ^S	—		14	
	9	96° -	-10.40	113	-11.75
8400 ^E - 10400 ^S		95° 30'	9.54	212	-20.22
	T.P.	84° 45'	+9.11	270	-24.60
	11	275° 15'	+9.11	171	+15.58
	12	272° -	+3.49	72'	+2.51
	13	—		27'	
	14	92° -	-3.49	125	-4.36
8400 ^E	15400 ^S	92° -	-3.49	224	-7.82
	T.P.	81° 30'	+14.62	253	-36.99
	16400 ^S	278° 30'	+14.62	153	+22.37



PARTY CHIEF

WEATHER

T.P.	Rod	reading	Inv. d	H.I.	Elev.
	B.S. +	F.S. -	B.L.	page 41	(2958.28)
π	+2.45		-0.10	2958 ¹⁸	
		5.58	-5.58		2952.60
		5.49	-5.49		2952.69
		5.60	-5.60		2952.58
		3.21	-3.21		2954.97
		3.42	+0.03		2958.21
○		5.61	-0.48		2957.70
π	+4.48		-5.14	2952.56	
		2.13	+2.87		2954.93
		7.38	-7.38		2945.18
		5.86	-17.61		2934.95
○		4.20	-24.42		2928.14
π	5.01		-19.59	2908 ⁵⁵	
		2.79	+12.79		2921.34
		2.95	-0.44		2908.11
		5.63	-5.63		2902.92
		4.94	-9.30		2899.25
○		4.70	-12.52		2896.03
π	4.99		-32.90	2864.03	
		4.93	+17.44		2881.47



JOB

L - 8+00^E

DATE

PAGE

32

Line	Sta.	V. L	R.F.	dist.	prod.
8+00 ^E	17+00 ^S	88° -	+ 3.49	55	+11.92
	18+00 ^S	94° -	- 6.96	44	-3.06
	T.P.	78° 20'	+ 19.80	124	-24.55
	19	—		24	
	20+00 ^S	94° -	- 6.96	73'	-5.08
	21	94° 10'	- 7.25	173'	-12.54
8+00 ^E	22+00 ^S	92° 55'	- 6.81	273'	-18.59
	T.P.	87° 30'	+ 4.36	294	-12.82
	23+00 ^S	272° 30'	+ 4.36	195	+ 8.50
	24	271° -	+ 1.74	98	+ 1.71
	25+00 ^S	—		0	
	26	91° -	+ 1.74	98'	+ 1.71
	27	91° -	1.74	196	-3.41
8+00 ^E	T.P.	88° -	3.49	191	-6.67
	28+00 ^S	272° -	+ 3.49	93	+ 3.25
	29	—		7	
	30	—		105	
8+00 ^E -	30+00 ^S	—		185	

TL
30182^S

T.P.	Rod	reading	Elev. D	H.I.	Elev.
	B.S. ⁺	I.S.			
		1.86	+0.06	2864.03	2864.09
⊙		5.86	-8.92		2855.11
⌞	+1.95-		-22.60	2832.51	
		3.22	-3.22		2829.29
		6.92	-12.00		2820.51
		2.52	-15.06		2817.45
⊙		1.57	-20.16		2812.35
⌞	6.81		-5.81	2806.54	
		2.99	+5.51		2812.05
		2.98	-1.27		2805.27
		5.28	-5.28		2801.26
		6.31	-8.62		2798.52
⊙		6.95	-10.36		2796.18
⌞	+3.58		-3.09	2793.09	
		5.39	-2.14		2790.95
		5.60	-5.60		2787.49
		5.78	-5.78		2787.31
		3.20	-3.20		2789.89
					<u>Tie 0.01</u>

T.h. page 18 (2789.90)



JOB

L-16+00^E

DATE

PAGE

33

LINE	Stn.	V. L	R. F.	dist.	prod.
16+00 ^E	31 ⁹	92° 30'	4.36	235	+10.25
	30	267° 30'	-4.36	137	-5.97
	29	267° -	-5.23	40	-2.09
	28	86° -	+6.96	60	+4.18
	27	84° -	+10.40	160	+16.64
	T. P.	91° 30'	-2.62	241	+6.31
	26	268° -	-3.49	140	-4.89
	25	268° -	-3.49	43	-1.50
	24	84° 30'	+9.54	57	+5.44
	23	85° -	+8.68	156	+13.54
	T. P.	96° 55'	-11.96	297	+35.52
	22	263° -	-12.10	198	-23.96
	21	263° -	-12.10	97	-11.74
	20	—		2	
	19	85° -	+8.68	102	+8.85
16+00 ^E	18	81° 30'	+14.62	202	+29.53
	T. P.	99° -	15.45	121	+20.24
	17	114° 30'		33	
	16	81° 30'		70	
	15	78° 30'		171	
16+00 ^E	14+00^E	77° 30'	21.13	274	+57.90



PARTY CHIEF

WEATHER

T.P.	Rod B.S. ⁺ F.S. ⁻	reading	Elev. 1	H.I.	Elev.
				(page 17)	2723.59
π	+4.98		+15.23	27.38 ⁸²	
		4.11	-10.08		2728.74
		6.29	-18.46		2720.36 , 2730.4
		1.28	+2.90		2741.72
⊙		6.33	+10.31		2749.13
π	+3.35		+9.66	27.58 ⁷⁹	
		4.41	-9.30		2749.49
		5.62	-7.12		2751.67
		3.00	+2.44		2761.23
⊙		7.59	+5.95		2764.74
π	+4.80		+40.32	28.05 ⁰⁶	
		3.61	-27.57		2777.49
		3.06	-14.80		2790.26
		4.90	-4.90		2800.16
		3.22	+5.53		2810.59
⊙		5.71	+23.82		2828.88
π	+3.21		+23.45	28.52 ³³	
		3.63			
		1.03			
		1.18			
⊙		2.76	+55.14		

SEE
page
33 A



LINE	STN	V. L	R. E.	dist.	pract.
16 + 00 E	T.P.	263° -	-12.10	148'	+17.91
16 + 00 E	13 + 00 S	263° -	-12.10	47'	-5.69
	12	81° -	+15.45	53'	+8.19
	11	80° -	+17.10	153	+26.16
	T.P.	80° -	17.10	184	+31.46
	—	264° 30'	-9.54	324	+30.91
	10 + 00	263° 30'	-11.25	255	-28.69
	9	259° 30'	-17.92	157	-28.13
	8	259° 30'	-17.92	56	-10.04
	7	84° 30'	+9.54	43	+4.10
16 + 00 E	6 + 00 S	82° 30'	+11.25	142	+15.98
	T.P.	82° -	+12.10	177	+21.42
	—	81° -	+15.45	266	-41.10
16 E	5 + 00 S	279° -	+15.45	198	+30.59
	4	277° -	+12.10	96'	+11.62
	3	—		2'	
	2	—		101	
	1 + 00 S	—		201	
16 + 00 E	B.L.	83° -	+12.10	286'	+34.61
"	"	276° 55'	+11.96	285	+34.09



T.P.	Rod B.S. ⁺	reading F.S.	Elev. cl.	H.I. (2907.24	Elev. SEE page 33.A)
π	+3.00		+20.91	2928.15	
		5.19	-10.88		2917.27
		2.48	+5.71		2933.86
		3.60	+22.56		2950.71
⊙		3.69	+27.77		2955.92
π	+1.79		+32.70	2988.62	
		3.28	-31.97		2956.95
		5.71	-33.84		2954.78
		4.11	-14.10		2974.47
		5.59	-1.49		2987.13
		5.58	+16.40		2999.02
⊙		12.12	+9.30		2997.92
π	+3.09		-38.01	2959.91	
		4.80	+25.74		2985.65
		4.70	+6.92		2966.83
		5.65	-5.65		2954.26
		6.25	-6.25		2953.66
		5.25	-5.25		2954.66
		0.50	+34.11		2994.02
		o NAIL	+34.09		
				B.L. →	2993.80



LINE	STN	V. L	R. E.	dist.	prod.
24+00 E	31+00 S	-261°	-15.45	167	+25.80
	30	-261°	-15.45	62	-9.58
	29	—		37	
	28+00 S	+87°	+5.23	136	+7.11
	27+00 S	+80°	+8.68	236	+20.48
	T.P.	-95°	-8.68	194	+16.84
	26	-265°	-8.68	94	-8.16
	25	—		5	
	24	+87°	+5.23	103	+5.38
	T.P.	-101°	-18.73	242	+45.33
	23	-259°	-18.73	140	-26.22
	22	-259°	-18.73	38	-7.12
	21	+76°	+23.47	64	+15.02
	20	+76°	+23.47	166	+38.96
24+00 E	19+00 S	+76°	+23.47	268	+62.90
	T.P.	-106°	-26.50	190	+50.35
	18	-254°	-26.50	88	-23.32
	17	—		16'	
	16	+85°	+8.68	116	+10.07
24+00 E	15+00 S	-275°	+8.68	214	+18.58
	T.P.	+92° 30'	-4.36	197	+8.58



PARTY CHIEF

WEATHER

T.P.	Rad B.S. ⁺	rdg. F.S.	Elev. ch.	H.I.	Elev.
				T.L.	(Page 17 2673.05)
⌈	+6.23		+32.03	2705. ⁰⁸	
		2.35	-11.93		2693.15
		1.32	-1.32		2703.76
		2.92	+4.19		2709.27
○		3.09	+17.39		2722.47
⌈	+2.77		+19.61	2742. ⁰⁸	
		3.87	-12.03		2730.05
		4.40	-4.40		2737.68
○		1.36	+4.02		2746.10
⌈	+2.17		+47.50	2793. ⁶⁰	
		4.57	-30.79		2762.81
		6.55	-13.67		2779.93
		4.12	+10.90		2804.50
		7.00	+31.96		2825.56
○		2.45	+60.45		2854.00
⌈	+3.85		+54.20	2908. ²⁵	
		1.94	-25.26		2882.99
		2.53	-2.53		2905.72
		5.17	+4.90		2913.15
○		5.43	+13.15		2921. ⁴⁰
⌈	+5.30		+13.88	2935. ²⁸	

PARTY CHIEF

WEATHER



Line	Sta	V. \angle	R.F.	dist.	prod.
24+00 ^E	14+00 ^S	269°-	-1.74	100	-1.74
	13	—		0	
	12	—		99	
	11	—		198	
	T.P.	95°-	-8.68	198	+17.19
	10	265°-	-8.68	99	-8.59
	9	—		0	
	8	93°-	-5.23	99	-5.18
	7	93°-	-5.23	199	-10.41
	6	92°-	-3.49	298	-10.40
	T.P.	94°30'	-7.82	225	+17.59
	5	264°30'	-9.54	126	-12.02
	4	—		29'	
	3	—		74'	
	2	82°30'	+12.94	172'	+22.26
24+00 ^E	1+00 ^S	74°-	+26.50	278'	+73.67
	B.L.	71°30'	+30.09	3.87	+116.45



T.P.	Roed. B.S. ⁺	rdg. F.S. ⁻	Elev. d.	H.I.	Elev.
				2936. ²⁸	
		5.68	-7.42		2927. ⁸⁶
		5.10	-5.16		2930. ¹⁸
		6.01	-6.0		2929. ²⁸
⊙		5.33	-5.33		2929. ⁹⁵
π	6.72		+23.91	2953. ⁸⁶	
		8.49	-17.08		2936. ⁷⁸
		5.23	-5.23		2948. ⁶³
		3.95	-9.13		2944. ⁷³
		3.93	-14.34		2939. ⁵²
⊙		4.08	-14.48		2939. ³⁸
π	3.27		+20. ⁸⁶	2960. ²⁴	
		6.55	-18.57		2941. ⁶⁷
		7.14	-7.14		2953. ¹⁰
		1.52	-1.52		2958. ⁷²
		2.48	+19.78		2980. ⁰²
		0.74	+72.93		3033. ¹⁷
⊙		2.72	+113. ⁷³		3073. ⁹⁷
					Tie 0.17
					page 43-3073. ⁸⁰



LINE	Stn	V. L	R.F.	dist.	prod.	
56+00 ^E	31+00 ^S	100° -	-17.10	119	+20.35	Int. 56 ^E
	30	—		19		
	29	82° 30'	+12.94	80'	+10.35	
	T.P.	80° -	+17.10	111	+18.98	
		95° 30'	-9.54	95	+9.6	
	28	264° 30'	-9.54	27	-2.58	
	27	81° 30'	+14.62	72	+10.53	
	26	81° 30'	+14.62	122	+25.29	
	T.P.	98° -	-13.78	198	+27.28	
	25	262° -	-13.78	98	-13.50	
	24	—		0		
	23	80° -	+17.10	100	+17.10	
	22	80° -	+17.10	199 ⁸	+34.03	
	T.P.	98° -	-13.78	153	+21.08	
	21	262° -	-13.78	52	-7.17	
	20	79° -	+18.73	48'	+8.99	
	T.P.	77° 30'	+21.13	117'	+24.72	
	T.P.	96° -	-10.40	274 ³	+28.50	
	19	264° -	-10.40	243'	-25.27	
	18	264° -	-10.40	142	-14.77	

T.P.	Rad	rdg.	Elev. cl.	H.I.	Elev.
	B.S.	I.S.			
					2556.24
⌈	+5.03		+25.38	2581.62	
		6.37	-6.37		2575.25
		3.45	+6.90		2588.52
⊙		2.81	+16.17		2597.79
⌈	+4.41		+13.47	2611.26	
		5.23	-7.81		2603.45
		2.31	+10.22		2621.48
⊙		140	+23.89		2635.15
⌈	+5.52		+32.80	2667.95	
		3.53	-17.03		2650.92
		5.42	-5.42		2662.53
		2.54	+14.56		2682.51
⊙		2.69	+31.34		2699.29
⌈	+4.20		+25.29	2724.57	
		6.51	-13.69		2710.89
		4.00	+4.99		2729.58
		4.43	+20.29		2744.86
⌈	+9.16		+37.66	2782.52	
		8.92	-34.19		2748.33
		4.28	-19.05		2763.47

LINE	Sta	V. L	R.F.	dist.	grad.
56+00 ^E	17+00 ^S	264° -	-10.40	43'	-4.47
	16	87° -	+5.23	56'	+2.96
	15	85° -	+8.68	158	+13.71
	14	85° -	+8.68	254	+22.05
	T.P.	95° -	-8.68	185	+16.06
	13	265° -	-8.68	86'	-7.46
	12	—	—	14	—
56+00 ^E	11+00 ^S	83° -	+12.10	113	+13.67
	10	83° -	+12.10	213	+25.77
	9	83° -	+12.10	311	+37.63
	T.P.	97° 30'	-12.94	197'	+25.49
	8	262° 30'	-12.94	95'	-12.29
	7	—	—	3	—
	6	85° 30'	+7.82	104	+8.13
	5	84° 30'	+9.54	204	+19.46
	T.P.	96° 30'	11.25	198	+22.28
	4	263° 30'	-11.25	103	-11.59
	3	—	—	0	—
56+00 ^E	2+00 ^S	84° 30'	+9.54	100	+9.54
	1+00 ^S	84° -	+10.40	200	+20.80
	B.L.	83° 30'	+11.25	297	+33.41

T.P.	Rad	rdg.	Elev. d	H.I.	Elev.
	B.S. ⁺	I.S. ⁻		2782. ⁵²	
		4.33	-8.80		2773. ⁷²
		2.87	+0.09		2782. ⁶¹
		5.91	+7.80		2790. ³²
0		6.38	+15. ⁶⁷		2798. ¹⁹
π	+5.27		+21. ³³	2819. ⁵²	
		6.69	-14. ¹⁵		2805. ³⁷
		4.30	-4. ³⁰		2815. ²²
		4.99	+8. ⁶⁸		2828. ²⁰
		6.41	+19. ³⁶		2838. ⁸⁸
0		6.00	+31. ⁶³		2851. ¹⁵
π	+4.56		+30. ⁰⁵	2881. ²⁰	
		3.15	-15. ⁴⁴		2865. ⁷⁶
		5.15	-5. ¹⁵		2876. ⁰⁵
		5.86	+2. ²⁷		2883. ⁴⁷
0		3.63	+15. ⁸³		2897. ⁰³
π	+2.11		+24. ³⁷	2921. ⁴⁰	
		6.05	-17. ⁶⁴		2903. ⁷⁶
		5.23	-5. ²³		2916. ¹⁷
		4.30	+5. ²⁴		2926. ⁶⁴
		2.75	+18. ⁰⁵		2939. ⁴⁵
		6.00	+27. ⁴¹		2948. ⁸¹
					2948. ⁹⁷

Tie 0.16



Line	Stn	V. L	R.F.	dist.	prod.
64400 ^E	31400 ^S	94°	-6.96	299	+20.81
	30400 ^S	94°	-6.96	198	-13.78
	29400 ^S	94°	-6.98	99	-6.91
	28	—		0	
	27	82°	+8.68	100	+8.68
	26	81°	+15.45	201	+31.05
64400 ^E	25400 ^S	79°	+18.73	304	+56.94
	T.P.	95°	-8.68	200	+24.30
	24400 ^S	95°	-8.68	181	-15.71
	23	95°	-8.68	82	-7.12
	22	—		16'	
	21	84°	+10.40	116	+12.06
	20400 ^S	84°	+10.40	215	+22.36
	19400 ^S	84°	+10.40	314	+32.66
	T.P.	99°	-15.45	300'	+47.12
	18400 ^S	261°	-15.45	205	-31.67
	17	261°	-15.45	105	-16.22
	16	—		5	
	15	82°	+13.78	95	+13.09
	14	83°	+12.10	194	+23.47
	13	83°	+12.10	294	+35.57

JOB

DATE PAGE

T.P.	Rod	rdg.	Elev. d.	H.I.	Elev.
	B.S. ⁺	F.S. ⁻			T.L.
					25 47.39
π	2.05		+22.86	2570.25	
		3.89	-17.67		25 52.58
		5.81	-12.72		25 57.53
		5.50	-5.50		25 64.75
		3.56	+5.12		25 75.37
		1.71	+29.34		25 99.59
⊙		173	+55.21		26 25.46
π	2.61		+26.91	2652.37	
		2.67	-18.38		26 33.99
		3.79	-10.91		26 41.46
		3.59	-3.49		26 48.88
		7.25	+4.81		26 57.18
		5.72	+16.64		26 69.01
⊙		5.44	+27.22		26 79.59
π	9.83		+56.95	2736.54	
		6.25	-37.92		26 98.62
		5.70	-21.92		27 14.62
		6.38	-6.38		27 30.16
		4.30	+8.79		27 45.33
		5.77	+17.70		27 54.24
⊙		2.48	+38.09		27 69.63

PARTY CHIEF

WEATHER



LINE	STN	V. L	R. F.	dist.	prod.
32 ^w	B.L.	90° 30'	0.87	315	+2.74
	1 ^s	90° 30'	0.87	204	-1.77
	2	90° 30'	0.87	98	-0.85
	3	—		0	
	4	—		99	
	5	—		197	
	6	—		297	
32 ^w	7 ^s 100 ^s	—		397	
	T. P.	—		248	
	8	—		149	
	9	—		49	
	10	—		50	
	11	79° —	+18.73	152	+28.47
	T. P.	94° —	-6.96	162	+11.27
	12	—		63	
	13	—		36	
	14	—		135	
32 ^w	15 ^s 100 ^s	—		235	
	16 ^s 100 ^s	89° 30'	+0.87	333	+2.90
	T. P.	93° —	-5.23	167	+8.73

T.P.	Rod rdy.	Elev. d.	H.I.	Elev.
	B.S. ⁺	F.S. ⁻		(2970.45) PAGE 39
⊗ ⌒	15.48		2978.67	
		5.17	-6.94	2971.73
		4.93	-5.78	2972.89
		5.70	-5.70	2972.97
		6.43	-6.43	2972.24
		5.67	-5.67	2973.00
		4.90	-4.90	2973.77
⊙		4.25	-4.25	2974.42
⊗ ⌒	12.29		2986.71	
		10.02	-10.02	2976.69
		6.85	-6.85	2979.86
		1.87	-1.87	2984.84
⊙		3.35	+25.12	3011.83
⊗ ⌒	5.14		3028.24	
		6.46	-6.46	3021.78
		5.42	-5.42	3022.82
		4.65	-4.65	3023.59
		4.75	-4.75	3023.49
⊙		1.60	+1.30	3029.54
⊗ ⌒	5.38		3043.65	
		14.11		



LINE	STN	V. L	R. F.	dist.	prod.
32 ^w	1740 ^S	267°	-5.23	69	-3.61
	18	—		30	
	19	—		129	
	T.P.	87°-	+5.23	182'	+9.5 ²
	—	106°-	-26.50	127	+33.65
32 ^w	2040 ^S	254°-	-26.50	78	-20.67
	21	84°-	+10.40	23	+2.39
	22	71°36'	+30.09	130	+39.12
	T.P.	70°-	+32.74	174	+55.92
	T.P.	86°-	+6.96	117	-8.14
32 ^w	2340 ^S	274°-	+6.96	57	+3.97
	2440 ^S	164°-	-23.47	42	-9.86
	—	63°45'	+39.67	189 ±	-74.98
	2540 ^S	292°-	+34.73	70	+24.31
	26	97°30'	-12.94	35	-4.53
	27	94°-	-6.96	135	-9.40
	T.P.	89°30'	+0.87	202	-1.76
	28	—		102	
	29	—		0	
	30	—		99	
32 ^w	30480 ^S	—		178'	

T.P.	Rad B.S. ⁺	rdg. F.S. ⁻	Elev. d.	H.I.	Elev.
				3048. ⁶⁵	
		5.33	- 8.94		3034.71
		4.80	-4.80		3038.85
		3.90	-3.90		3039.75
⊙		2.81	+6.71		3050.36
⌒	2.85		+36. ⁵⁰	3086. ⁸⁶	
		6.50	-27.17		3059.69
		1.02	+1.37		3088.23
		2.21	+36.91		3123.77
⊙		2.10	+53. ⁸²		3140. ⁶⁸
⌒	4.36		-3.78	3136. ⁹⁰	
		5.32	-1.35		3135. ⁵⁵
⊙		6.44	-16.30		3120. ⁶⁰
⌒	4.70		-70. ²⁸	3050. ³²	
		2.61	+21.70		3072.02
		6.11	-10.64		3039.68
⊙		3.73	-13.13		3037.19
⌒	4.78		+3.02	3040. ²¹	
		3.46	-3.46		3036.75
		5.24	-5.24		3034.97
		8.25	-8.25		3031.96
		6.20	-6.20		3034.01

page 20 → (30 34.04)

PARTY CHIEF

WEATHER

Tie .03



Line	Sta	V.L	R.F.	dist.	pract.
0+00	15+00 ^S	—		94'	
	16	—		3	
	17	108°	-29.39	107	-31.45
	T.P.	108°30'	-30.09	143	-43.03
	—	79°	+18.73	72	-13.48
	18	—		4	
	19	94°	-6.96	92	-6.40
	20	94°	-6.96	192	-13.36
	T.P.	—		36	
0+00	21+00 ^S	—		62.5	

SEE page - 30



T.P.	Rod B.S. ⁺	rdg. F.S. ⁻	Elev. d	H I	Elev.
					2942.27
⋈	6.65		+6.65	2948.92	
		6.02	-6.02		2942.90
		7.75	-39.20		2909.72
○		6.89	-49.92		2899.00
⋈	*202		-11.46	2887.54	
		5.17	-5.17		2882.37
		6.39	-12.79		2874.75
○		-1.82	-15.18		2872.36
⋈	+5.53		+5.53	2877.89	
○		-4.55	-4.55		<u>2873.34</u>

SEE page 29



JOB

Line 16400^E

DATE

PAGE

33 - A

Line	STN	V. L	R.F.	dist.	prod.
16400 ^E , 18400 ^S		99° -	-15.45	131	+20.24
17		252° -	-29.39	32	-9.40
16		79° 36'	+17.92	71	+12.72
15		77° 30'	+21.13	172	+36.34
14400 ^S		77° 30'	+21.13	273'	+57.68

SEE PAGE - 33

T.P.	Rod B.S.†	rdg. F.S.		
∧	13.24		+23.48	2852.36
		5.00	-14.45	
		3.53	+9.19	
		4.19	+32.15	
0		2.80	+54.88	
				2837.91
				2861.55
				2884.51
				2907.24

SEE PAGE 33
2828.88

Continued on 33



LINE	STN	V. L	R.F.	dist.	prod.	
32 ^E	3140 ^S	113° -	-35.97	131 [±]	+47.09	T.L. In
	30	259° -	-18.73	13	-2.43	
	29	86° -	+6.96	86'	+5.99	
	28	85° 30'	+7.82	187'	+14.62	
32 ^E	27400 ^S	85° 30'	+7.82	287'	+22. ⁴⁴	
	T.P.	100° -	-17.10	202	+34. ⁵⁴	
	26	260° -	-17.10	101	-17.27	
	25	—		0		
	24	84° -	+10.40	99	+10.30	
	T.P.	101° -	-18.73	100	+18.73	
	23	—		0		
	22	74° 30'	+25.75	103	+26.52	
	T.P.	74° 30'	+25.75	150	+38.62	
	—	109° -	-30.78	223 ²⁴	+68.64	
	21	251° -	-30.78	169'	-52. ⁰²	
	20	251° -	-30.78	65'	-20.01	
	19	83° 30'	+11.25	38'	+4.28	
32 ^E	18400 ^S	80° 30'	+16.28	139'	+22.63	
	T.P.	94° 30'	-7.82	297'	+23.22	
	17400 ^S	265° 30'	-7.82	197'	-15.41	



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WEATHER

T.P.	Rad + B.S.	rdg. - F.S.	Elev. d.	HI	Elev.
			(T. L. page 16)		2636.29
π	+5.05		+52.14	2688.43	
		6.41	-9.04		2679.39
		5.15	+0.84		2689.27
		1.94	+12.68		2701.11
⊙		1.47	+20.97		2709.40
π	+2.05		+37.09	2746.49	
		5.58	-22.85		2723.64
		5.07	-5.07		2741.42
⊙		2.30	+8.00		2754.49
π	+4.19		+22.92	2777.41	
		4.97	-4.97		2772.44
		2.63	+23.89		2801.30
⊙		3.15	+35.47		2812.88
π	+5.10		+73.74	2886.62	
		4.97	-56.99		2829.63
		3.48	-23.49		2863.13
		1.66	+2.62		2887.24
⊙		6.05	+16.50		2903.20
π	4.06		+27.28	2930.48	
		3.25	-18.66		2911.82



Line	STN	V. L	R.F.	dist.	product
32+00 ^E	16+00 ^S	265° 30'	-7.82	98'	-7.66
	15+00 ^S	—		0	
	14	—		101	
	13	—		200	
	12	91° -	1.74	300	-5.22
32+00 ^E	11+00 ^S	—		400	
	T.P.	92° -	-5.23	2.98'	+15.59
	10	267° -	-5.23	198'	-10.36
	9	267° -	-5.23	100'	-5.23
	8	—		0	
	7	86° -	+6.96	98	+6.82
	6	84° -	+10.40	199	+20.70
	T.P.	—		197	
	5	—		93	
	4	—		4	
	3	88° -	+3.49	102	+3.56
	2	84° 30'	+9.54	202	+19.27
	1+00 ^S	79° -	+18.73	304	+56.94
32+00 ^E	B.L.	78° 15'	+19.94	405 ± 1	+80.55

T.P.	Rod B.S. ⁺	rdg F.S. ⁻	Elev. d.	H.I.	Elev.
				2930.48	
		6.35	-14.01		2916.47
		5.42	-5.42		2925.06
		3.47	-3.47		2927.01
		9.99	-9.99		2920.49
		10.57	-15.79		2914.69
		11.60	-11.60		2918.88
⊙ π	7.48		+23.07	2941.95	
		5.02	-15.38		2926.57
		4.70	-9.93		2932.02
		5.39	-5.39		2936.56
		4.29	+2.53		2944.48
⊙ π	4.40	5.39	+15.31		2957.26
			+4.40	2961.66	
		6.98	-6.98		2954.68
		5.35	-5.35		2956.31
		2.75	+0.81		2962.47
		2.02	+17.25		2978.91
		2.25	+54.69		3016.35
		2.65	+77.90		3039.56
					Tie 0.04
					(3039.52)
		ELEV.	REQ	42	



LINE	STN	V. L	R.F.	dist.	prod.	
48+00 ^E	31+00 ^S	91° —	-1.74	92'	+1.60	Int. T.h. + 3
	30	—		0		
	29	66° —	+37.16	107 ⁸	+40.13	—
	T.P.	97° —	-12.10	124'	+15.00	
	28	267° —	-5.23	22'	-1.20	
	27	79° —	+18.73	77'	+14.42	
	T.P.	79° —	+18.73	141	+26.41	
		96° —	-10.40	195	+20.28	
	26	264° —	-10.40	159	+16.54	
	25	264° —	-10.40	60	-16.24	
	24	85° 30'	+7.82	39	+3.05	
	23	80° —	+17.10	141	+24.11	
	22+00 ^S	80° —	+17.10	211	+41.21	
	T.P.	99° 30'	-16.28	202	+32.39	
	21	260° 30'	-16.28	102	-16.61	
	20	—		0		
	19	83° —	+12.10	100	+12.10	
	18	83° 30'	+11.25	199	+22.39	
	17+00 ^S	84° —	+10.40	297 ⁸	+30.99	—
	T.P.	262° —	-13.78	202'	+34.73	



T.P.	Rad. + B.S. +	Reading F.S. -	Elev. d.	H.I.	Elev.
					2588.56
π	6.58		+8.18	2596.74	
		4.58	-4.58		2592.16
○		4.51	+35.62		2632.36
π	4.07		+19.07	2651.43	
		6.56	-7.76		2643.67
		3.35	+11.07		2662.50
○		1.71	+24.70		2676.13
π	+2.59		+22.87	2699.00	
		2.96	-1.00		2679.50
		6.59	-1.00		2686.17
		1.53	+1.52		2700.52
		2.60	+21.51		2720.51
○		5.96	+35.25		2734.25
π	3.08		+35.47	2769.72	
		3.08	-19.69		2750.03
		5.20	-5.20		2764.52
		5.26	+6.84		2776.56
		3.80	+18.59		2788.31
○		3.86	+27.13		2796.85
π	5.58		+40.30	2837.15	



LINE	STN	V. L	R. F.	dist.	proct.
48+00 ^E	16+00 ^S	98° -	-13.78	153	-21.08
	15	97° -	-12.10	53	-6.41
	14	—	—	46	—
	13	87° -	+5.23	145	+7.58
	12	86° -	+6.96	244	+16.98
48+00 ^E	11+00 ^S	86° -	+6.96	344 ⁵	+23.94
	T.P.	99° -	-15.45	260'	+40.70
48+00 ^E	10+00 ^S	261° -	-15.45	162'	-25.03
	9	261° -	-15 45	62'	-9.58
	8	—	—	38'	—
	7	86° 30'	+6.09	138	+8.40
48+00 ^E	6+00 ^S	86° -	+6.96	238 ⁷	+16.56
	T.P.	96° -	-10.40	97'	+10.09
	5+00 ^S	—	—	0	—
	4	87° -	+5.23	99	+5.18
	3	86° -	+6.96	199	+13.85
	T.P.	96° 30'	-11.25	157	+17.66
	2	264° -	-10 40	58	-6.03
	1+00 ^S	89° -	+1.74	40.5	+0.7
48+00 ^E	B.L.	85° -	+8.68	141	+12.24

T.P.	Rod	reading	Elev. d	H.I.	Elev.
	B.S. +	F.S.		2837.15	
		4.94	-26.02		2811.13
		3.33	-9.74		2827.41
		1.68	-1.68		2835.47
		3.76	+3.82		2840.97
		2.63	+13.35		2850.50
⊙		5.09	+18.85		2856.00
⊗	5.36		+46.06	2902.06	
		6.44	-31.47		2870.59
		4.13	-13.71		2888.35
		1.70	-1.70		2900.36
		5.26	+3.14		2905.20
⊙		4.43	+12.13		2914.19
⊗	4.90		+14.99	2929.18	
		5.06	-5.06		2924.12
		2.73	+2.45		2931.63
⊙		4.59	+9.26		2938.44
⊗	3.53		+21.19	2959.63	
		5.5 ⁻²	-11.55		2948.08
		1.88	-1.81		2957.87
		3.52	+8.72		2968.35
					Tie 0.18
					2968.53



Line	Stn.	V. L	R. F.	dist.	prod.
64+00 ^E	13+00 ^S	262°-	-13.78	304	+41.89
	12+00 ^S	98°-	-13.78	203	-27.97
	11	98°-	-13.78	104	-14.33
	10	—		5	
	9	85°-	+8.68	93	+8.07
	8	83°-	+12.10	193	+23.35
64+00 ^E	7+00 ^S	82°30'	-12.94	294'	+38.04
	T.P.	263°-	-12.10	371'	+44.89
	6	97°-	-12.10	272'	-35.20
	5	97°-	-12.10	174	-22.52
	4	97°-	-12.10	79'	-10.22
	3	—		28	
	2	84°-	+10.40	117	+12.17
	1+00 ^S	85°-	+8.63	217	+18.84
64+00 ^E	B.L.	85°-	+8.68	312'	+27.08

T.P.	Rod	Rdg.	Elev. D	H.I.	Elev. S
π	B.S. ⁺ 2.16	I.S. ⁻ 6.31	+44.05	2813.68	2779.40
		3.73	-18.06		2795.60
		6.07	-6.07		2807.61
		6.29	+1.78		2815.46
		4.65	+18.70		2832.38
0		4.35	+33.69		2847.37
π	2.82		+48.71	2896.08	
		5.00	-40.20		2855.88
		5.60	-28.12		2867.96
		4.87	-15.09		2880.99
		2.44	-2.44		2893.64
		5.19	+6.98		2903.06
		4.05	+14.79		2910.87
0		6.93	+20.15		2916.23
					2916.23
			0.00	Tilt	

PARTY CHIEF

WEATHER



Line	Stn	V. angle	R.F.	dist.	product
B.L.	32+00 ^w	—		200	
	31	—		100	
	30	—		0	
	29	—		100	
	28	—		200	
	T.P.	—		400	
	27	—		300	
	26	—		200	
	25	—		100	
	24	—		0	
	23	—		100	
	22	—		200	
	21	—		300	
B.L.	20+00 ^w	—		400	
	T.P. - " -	—		4 11	
B.L.	19	—		3 11	
	18	—		2 11	
	17	—		1 11	
	16+00 ^w	—		11	
B.L.	15700 ^w	—		89'	



PARTY CHIEF

WEATHER

T.P.	Rad - B.S.†	rdg I.S.†	Elev. d.	H.I.	Elev.
					2970.45
π	+ 4.04		+4.04	2974.49	
		5.80	-5.80		2968.69
		6.03	-6.03		2968.145
		7.08	-7.08		2967.41
○		-10.49	-10.49		2964.00
π	+ 3.80		+3.80	2967.80	
		5.70	-5.70		2962.10
		5.67	-5.67		2962.13
		5.71	-5.71		2962.09
		5.73	-5.73		2962.07
		5.71	-5.71		2962.09
		5.74	-5.74		2962.06
		5.77	-5.77		2962.03
○		-5.89	-5.89		2961.91
π	+6.16		+6.16	2968.07	
	"	5.97	-5.97		2962.10
		6.02	-6.02		2962.05
		6.01	-6.01		2962.06
		6.01	-6.01		2962.06
		6.01	-6.01		2962.06

PARTY CHIEF

WEATHER



JOB

DATE PAGE 40

LINE	STN	V. angle	R.F.	dist.	prod.
B.L.	14+00 ^w	—		189	
	13	—		289	
	12	—		389	
	11+00 ^w	—		489	
B.L. T.P.	11+00 ^w	91°	1.74	300	+5.22
	10+00	91°	1.74	200	-3.48
	9+00	—		100	
B.L.	8+00 ^w	—		0	
B.L.	7+00 ^w	—		100	
	T.P.	88° 30'	2.62	300	-7.86
	6+00 ^w	271° 30'	2.62	200	+5.24
	5	—		100	
	4	—		0	
	3	—		100	
	2	90° 30'	-0.87	200	-1.74
	1+00 ^w	90° 30'	-0.87	301	-2.62
B.L.	0+00	90° 30'	0.87	400	-3.48
	T.P.	—		310	
	1+00 ^E	—		210	
	2+00 ^E	—		110	
	3+00 ^E	—		10'	

T.P.	Rod	rdg	Elev. d	M.I.	Elev.
	B.S. +	FS -		2968.07	
		5.94	-5.94		2962.13
		5.71	-5.71		2962.36
		5.05	-5.05		2963.02
⊙		3.79	-3.79		2964.28
π	+3.42		+8.64	2972.92	
		3.80	-7.28		2965.64
		6.90	-6.90		2966.02
		5.55	-5.55		2967.37
⊙		6.08	-6.08		2966.84
π	+5.38		-2.48	2964.36	
		4.15	+1.09		2965.45
		3.12	-3.12		2961.24
		5.42	-5.42		2958.94
		6.91	-6.91		2957.45
		6.28	-8.02		2956.34
		5.28	-7.90		2956.46
⊙		3.29	-6.77		2957.59
π	+3.45		+3.45	2961.04	
		4.07	-4.07		2956.97
		5.00	-5.00		2956.04
		6.30	-6.30		2954.74



Line	Stn	V. angle	R.F.	dist.	product
B.L.	4400 ^E	—		90'	
	5	—		190'	
	6400 ^E	—		292'	
	T.P.	92°30'	-4.36	400	+17.44
	7	267°30'	-4.36	300	-13.08
	8	266°-	-6.96	201	-13.99
	9	266°-	-6.96	100	-6.96
B.L.	10400 ^E	—		0	
	11	87°-	+5.23	100	+5.23
	12	88°-	+3.49	199	+6.95
	13	88°-	+3.49	300	+10.47
B.L.	14400 ^E	272°-	+3.49	400	+13.96
	T.P.	265°-	-8.68	252	+21.87
	15	262°-	-13.78	152	-20.94
	16	262°-	-13.78	50'	-6.89
	17	—		50'	
	18	—		150	
	19	86°-	+6.96	250'	+17.40
B.L.	20400 ^E	83°30'	+11.25	354'	+39.83
	T.P.	95°30'	-9.54	300	+28.62
B.L.	21400 ^E	263°-	-12.10	200	-24.20

T.P.	Rod B.S.	reading F.S.	Elev. d.	H.I.	Elev.
		6.05	-6.05	2961.94	2954.99
		4.33	-4.33		2956.71
0		5.06	-5.06		2955.98
π	+3.29		+20.73	2976.71	
		6.53	-19.61		2957.10
		4.54	-18.53		2958.48
		4.91	-11.87		2964.84
		4.74	-4.74		2971.97
		3.12	+2.11		2978.82
		3.76	+3.19		2979.90
		9.04	+1.47		2978.18
0		11.62	+2.34		2979.05
π	+6.81		+28.68	3007.73	
		1.36	-22.30		2985.43
		7.14	-14.03		2993.70
		2.61	-2.61		3005.12
		6.05	-6.05		3001.68
		4.10	+13.30		3021.03
0		8.52	+31.31		3039.04
π	+8.29		+36.91	3075.95	
		4.34			3047.41

PARTY CHIEF

WEATHER



LINE	STN	V. angle	R.F.	dist.	product
B.L. -	22+00 ^E	263° -	12.10	102	-12.34
	23	—		0	
	24+00 ^F	—		100	
	25	271° 30	+ 2.62	201	+5.27
	26	271° 30	+ 2.62	301	+7.89
T.P.		88° -	3.49	300	-10.47
	27	272° -	+ 3.49	199	+6.95
	28	272° -	+ 3.49	100	+3.49
	29	—		0	
	30	91° -	- 1.74	101	-1.76
	31	95° -	- 8.68	202	-17.53
	32+00 ^E	95° -	- 8.68	302	-26.21
B.L.	33+00 ^F	264° 30'	-9.54	404	-38.54
T.P.		273° -	+ 5.23	347	-18.15
B.L.	34	272° -	+ 3.49	247	+ 8.62
	35	271° -	+ 1.74	147	+2.56
	36	—		47'	
	37	—		54'	
	38	—		155'	
	39	92° -	- 3.49	255'	-8.90
B.L.	40+00 ^E	268° -	-3.49	355'	-12.39

JOB

DATE PAGE

T.P.	Red B.S.	reading I.S.	Elev. d.	H.I.	Elev.
				3075.95	
		3.80	-16.14		3059.81
		5.02	-5.02		3070.73
		2.25	-2.25		3073.70
		3.77	+1.50		3077.45
⊙		5.64	+2.25		3078.20
π	+4.00		-6.47	3071.73	
		2.32	+4.63		3076.36
		2.28	+1.21		3072.94
		5.30	-5.30		3066.43
		11.81	-13.57		3058.16
		4.01	-21.54		3050.19
		5.10	-31.31		3040.42
⊙		3.10	-41.64		3030.19
π	+3.84		-14.81	3015.28	
		4.76	+3.86		3019.14
		6.01	-3.45		3011.83
		4.37	-4.37		3010.91
		6.71	-6.71		3008.57
		9.40	-9.40		3005.88
		3.35	-12.25		3003.03
		2.99	-15.38		3,000.00

PARTY CHIEF

WEATHER



JOB

Profile # 1 (Road AT T.L.S)

DATE

PAGE 43

LINE	Stn	V. angle	R.F.	dist.	product
T.L.	14 W	—		5.0	
Profile	30 ^S	88° 30	2.62	101.	+2.65
"	29+75	—			
	29+50	—			
	29+25	—			
	29+00	—			
	28 75	—			
	28 50	—			
	28 25	—			
	28+00 ^S	—		96'	
"	"	101°	-18.73	275'	+51.51
	27+75	258°	-20.34	254'	-51.66
	27+50	103°	-21.92	228'	-49.98
	27+25	103°	-21.92	204'	-44.72
	27+00	103°	-21.92	179'	-39.24
	26+75	103°	-21.92	153'	-33.54
	26+50	103°	-21.92	127'	-27.84
	26+25	103°	-21.92	100'	-21.92
	26+00	103°	-21.92	76'	-16.66
	25+75	103°	-21.92	50'	-10.96
Profile	25+50	—		25'	



PARTY CHIEF

WEATHER

T.P.	Rod- B.S. ⁺	reading F.S. ⁻	Elev. of	H.I.	Elev.
π	+ 6.63		+ 6.63	2934. ⁴³	2927.80
		- 3.02	- 0.37		2934.06
		1.38	- 1.38		2933.05
		3.04	- 3.04		2931.39
		4.43	- 4.43		2930.00
		6.30	- 6.30		2928.13
		7.20	- 7.20		2927.23
		5.89	- 5.89		2928.54
		4.72	- 4.72		2929.71
○		2.41	- 2.41		2932.02
π	+ 5.85		+ 57.36	2989. ³⁸	
		5.10	- 56.76		2932.62
		3.86	- 53.84		2935.54
		2.76	- 47.48		2941.90
		2.86	- 42.10		2947.28
		4.20	- 37.84		2951.54
		6.89	- 34.73		2954.65
		8.55	- 30.77		2958.61
		7.52	- 24.18		2965.20
		6.35	- 17.31		2972.07
		10.78	- 10.78		2978.60

LINE	STN	V. ANGLE	R.F.	dist.	procl.
Profile	25725	—		0	
	25700	82° -	+13.78	24.5	+3.45
	24775	82° -	+13.78	49	+6.75
	24750	82° -	+13.78	74	+10.20
	24725	82° -	+13.78	100	+13.78
	T. P.	91° -	-1.74	195	+3.39
	24700	—	- $\frac{1}{2}$	173	-0.86
	23775	—		150	
	23750	—		125	
	23725	—		100	
	23700	—		75	
	22775	—		50	
	22750	—		25	
	22725	—		0	
	22700	—		25	
	21775	—		50	
	21750	96° -	10 40	73'	-7.59
	21725	96° -	10 40	98'	-10.19
	21700	96° -	10 40	122	-12.69

T.P.	Rad	rdg.	Elev. d.	H.I.	Elev.
	BS +	F.S.		2987.38	
		5.28	-5.28		2984.10
		3.98	+0.53		2988.155
		2.40	+4.35		2993.73
		1.80	+8.60		2997.98
0		1.65	+12.13		3001.57
π	+12.91		+16.30	3017.81	
		12.89	-13.75		3004.06
		10.60	-10.60		3007.21
		8.58	-8.58		3009.23
		6.87	-6.87		3010.94
		5.80	-5.80		3012.01
		4.41	-4.41		3013.40
		4.63	-4.63		3013.18
		5.73	-5.73		3012.08
		7.78	-7.78		3010.03
		10.75	-10.75		3007.06
		5.91	-13.50		3004.31
		7.27	-18.17		2999.64
		8.67	-21.36		2996.45

Line	Stn	V. ANGLE	R.F.	dist.	product
Profile #1	20+75	96° -	-10.40	147	-15.29
	20+50	96° -	-10.40	171	-17.78
	20+25	96° -	-10.40	196'	-20.38
	20+00	97° -	-12.10	222'	-26.86
	T.P.	—		146'	
	T.P.	82° -	+13.78	149'	-20.53
	T.P.	102° -	-20.34	225'	-45.77
	T.P.	88° -	+3.49	74'	-2.58
	30+00 ^s	—	+ $\frac{1}{2}$	173	+0.87
TL.	14 W	—		73	
		End	of	Profile #1	

T.P.	Rod	reading	Elev. d	HI.	Elev.
	B.S.†	F.S. -		3017.81	
		9.69	-24.98		2992.83
		10.66	-28.44		2989.37
		12.65	-33.03		2984.78
		9.39	-36.25		2981.56
⊙		10.55	-10.55		3007.26
π	+3.09		-17.44	2989 ⁸²	
⊙		8.12	-53.89		2935.93
π	+2.18		-0.40	2935 ⁵³	
		2.90	-2.03		2933.50
		7.63	-7.63		2927.90
					<u>Tie 0.10</u>



JOB

DATEPAGE

93

$C_0^2 \alpha$ ($\alpha = 310$)

$(.8777)^2$

79.72 *JK*

PARTY CHIEF

WEATHER



86° 58' 35"
 272° 59' 40"
 358 11 77 5'

204
 187
1428
 1632
17748

3 15
.87
 22 05
 20
214.05

359 57 75

359 58 15

359 59 60
58 15
 1 45

1 86 54 0 5
 273 06 45
 359 60 45

10.00

583 +- 1
 597
583
 14

89° 53' 40"
 270 06 25
 359 59 65

5.9 273°
 5.92 87°

89° 54' 00
 270 06 20
 359 60 20

