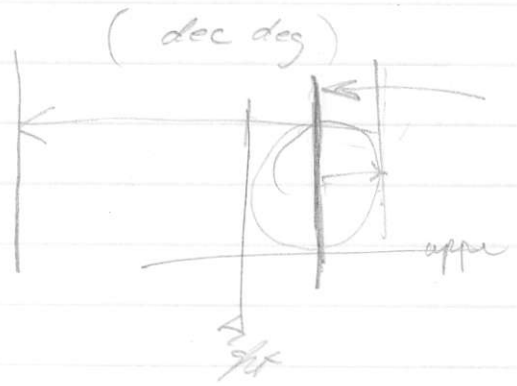




$$\cos Z_n = \frac{\sin D + \sin L \sin h}{\cos L \cos h}$$



TIME

- LAT D 49° 10' 00" (49.1667)

LONG 125° 24'

DATE 6.09.1987

TIME 22:3126 22:5839

h 53 39 30 49:46 20

-h<sub>c</sub> <sup>-45"</sup>/<sub>+5</sub> 53° 38 50 (53.6472) <sup>-45"</sup>/<sub>+5</sub> 49:45 40 (49.7611)

- D 22:56:59 22:57:05  
(22.9497) (22.9514)

Z<sub>n</sub> <sup>124.1162</sup>  
(111.3742) 116.3718  
111° 22' 27" 116° 22' 18"

Z<sub>n</sub> By Sight h=5339

Reduction 236.2876 244.2037

α = 4.2T α = 2.6T

D - PROGRAM

XEO α BODY α

Date ?

Time ?

Which Body

GHA

DEC

① A<sub>2</sub> 01 → 02  $\frac{124^{\circ} 06' 58'' - 16' + 10,34''}{10 18} =$

135 25

296 03

244.2037  
236.2876  
7.9161  
18.28'  
10.34'  
7° 54'  
360 00  
135 25  
224 35

111.3742

116.3718

236.2876

244.2037

347.6518

360.5755

225° 00 00

124.1162

124.1162

236.2876

116.3718

360.4038

7.7444

7° 44'

② A<sub>2</sub> 01 → 02  $\frac{116^{\circ} 22' 18'' - 16' + 18^{\circ} 28'}{18 12} =$

134 34 20

134 34 20

360  
134 34 20  
225 25 40

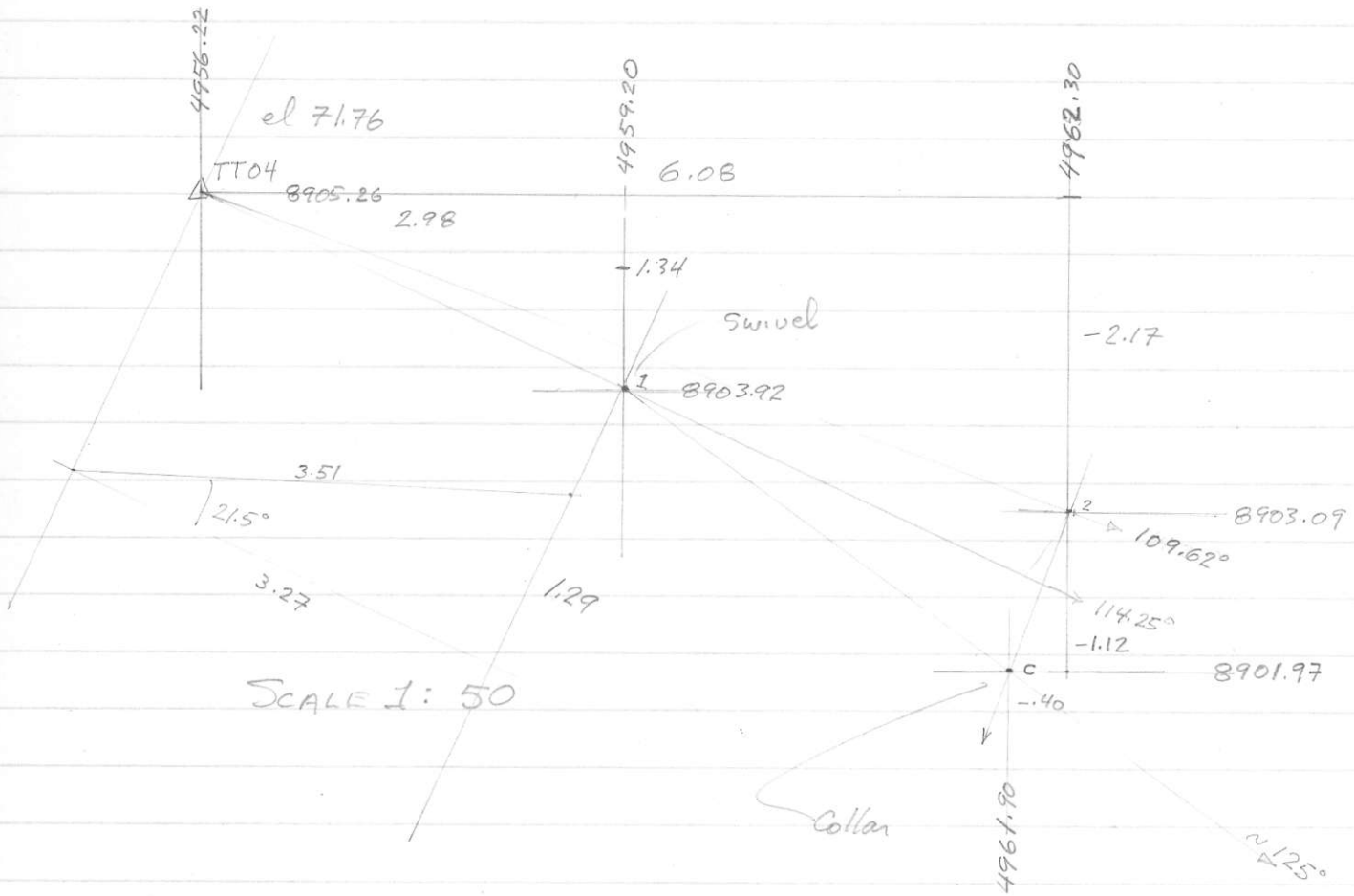
Coordinate correction July/87

	Old		New		el	Rotation $\Delta$	5°
	N	E	N	E			
TT01	10,000	5000	9002	5004			
02	9974.30	4969.29	8973.72	4975.65			
03	9942.38	4971.43	8942.11	4980.56			
04	9907.79	4943.97	8905.26	4956.22	71.76		
05	9871.81	4952.80	8870.18	4968.15			
5A	9871.65	4949.86	8869.77	4965.24			
06	9824.75	4983.06	8825.94	5002.40			
6A	9828.28	4973.53	8828.63	4992.60			
6B	9798.82	4970.75	8799.04	4992.40			
7	9810.03	5007.07	8813.37	5027.60			
8	9803.57	5022.71	8808.30	5043.74			
9	9856.58	5024.82	8861.29	5041.23			
10	9872.48	5020.13	8876.72	5035.17			
13	9906.70	5027.61	8911.46	5039.64			
12	9946.90	5039.53	8952.55	5048.01			
14	9924.33	5068.69	8932.60	5079.02			
11	9968.84	5029.53	8973.53	5036.13			
1	10,000.00	5000.00					
16	9857.09	4918.68	8852.55	4935.44	67.60		
17	9909.02	4911.77	8903.68	4924.04			
18	9939.40	4901.87	8933.08	4911.53			
19	9960.60	4897.74	8953.80	4905.16			
20	10,029.69	4937.77	9026.15	4939.42			
21							

HOLE T87-2

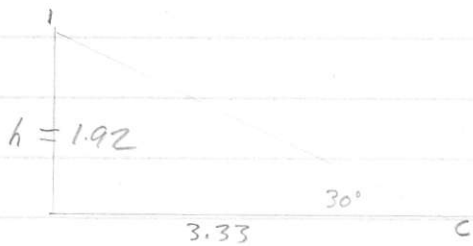
LOCATION SURVEY

July 24/87



STA	N	E	El
1	8903.92	4959.20	
C	8901.97	4961.90	72.34
	-1.95	2.70	
		$r = 3.33$	
		$A_2 = 125.84$	

$$el_c = HI + \frac{1.29}{1.21} + 71.76 - 1.92 = 72.34$$

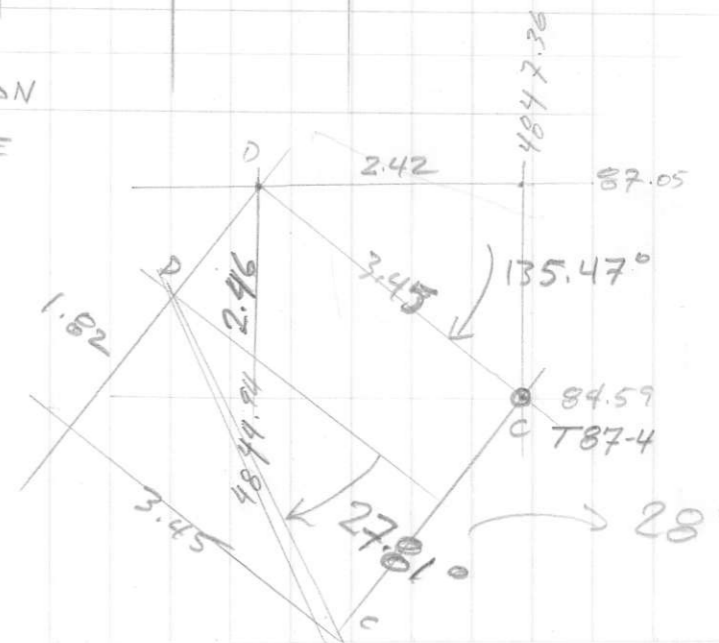
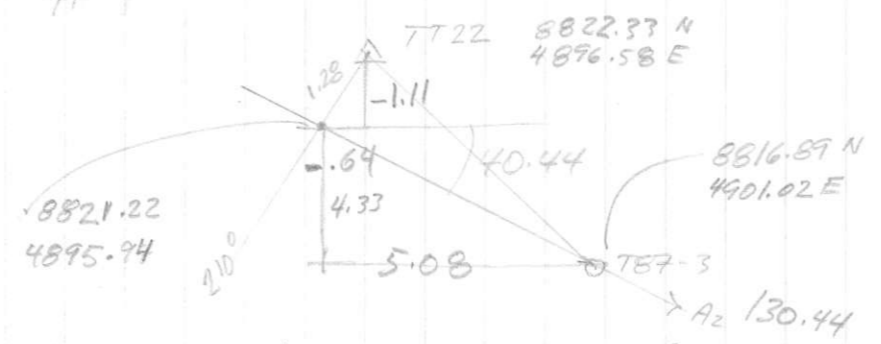
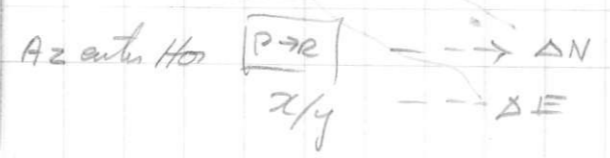
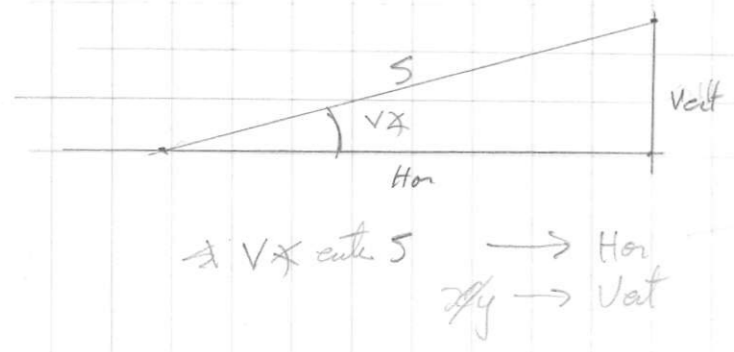


$$\frac{h}{3.33} = \tan 30^\circ$$

August 2/87 - Survey Compensation  
Holes T87-3 & 4

JTA	Sight	Az	Az con	Vx dist	Vx dec	Red	Slope dist	Hor	Vert	$\Delta N$	$\Delta E$	N	E	E-L	Sta
TT16	SA	65:00	64.974									8852.55	4935.44	6760	TT16
HI 120	TT21	240:33	240.524	+10°19.5'	+10.325	1.30	18.49	18.191	+3.314	-8.951	-15.836	8843.60	4919.60	70.81	TT21
TT21	TT16	60:33	60.524												
1.18	TT22	227:18	227.274	+7°41'	+7.683	1.30	31.63	31.346	+4.229	-21.268	-23.027	8822.33	4896.58	74.92	TT22
TT22	TT21	047:18	47.274												
1.36	T87-3	140:49	140.791	+2°03'	+2.050	1.50		7.02	.251	-5.439	4.438	8816.89	4901.02	75.03	T87-3 collar
	TT23	235:16	235.241	+2°59'	+2.983	0.0	55.85	55.774	2.906	-31.798	-45.822	8790.53	4850.76	79.19	TT23
TT23	TT22	55:16	55.241												
1.90	C	209:46	209.741	-7°01'	-7.017	0.0	6.90	6.848	-.843	-5.946	-3.397	8784.59	4847.36	79.65	C
	D	239:06.3	239.082	+8°12'	+8.200	0.0	6.854	6.784	.978	-3.486	-5.820	8787.05	4844.94	81.47	D
												$\Delta$ 2.46	2.42	1.82	C-D

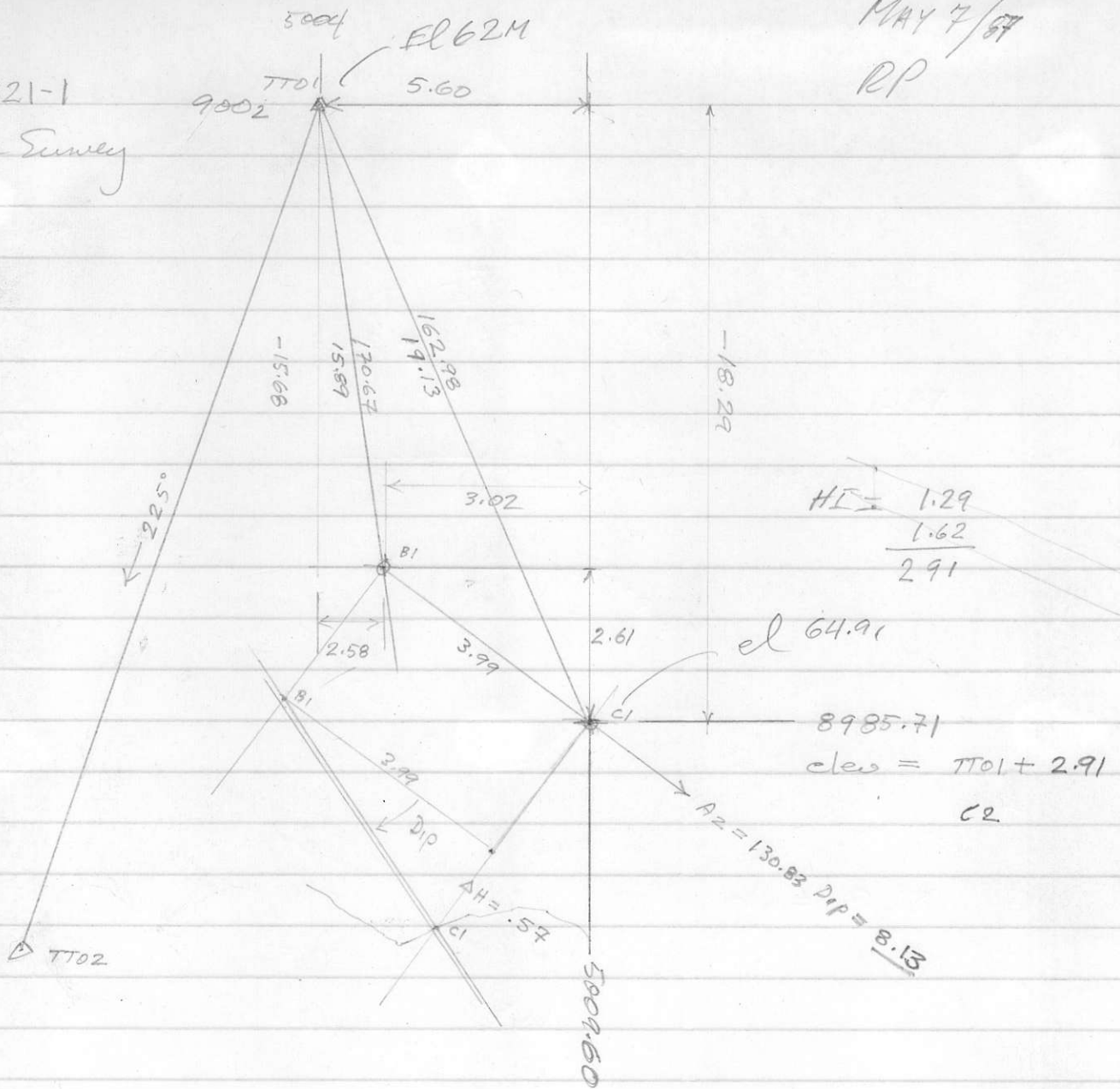
Checked Graphically  
OK





DDH-B21-1  
Local Area Survey

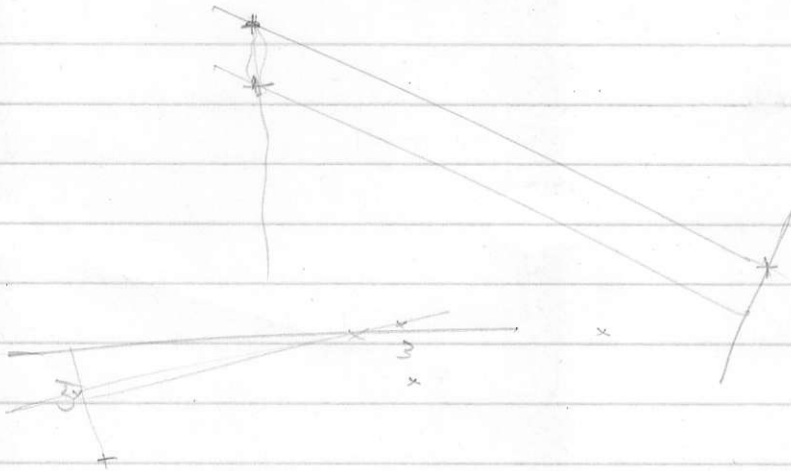
MAY 7/67  
RP



$$HI = \frac{1.29}{1.62} = 2.91$$

$$elev = TT01 + 2.91$$

$$\frac{.65}{3.99}$$



Hal T87-01