

TALKEETNA BOOK 2

VERT.



"Rite in the Rain"
ALL-WEATHER
TRANSIT BOOK
No. 300 F

AGREEMENT No.
P 12 047

AKSAS' PROJECT No.
55019

01.04.02 TALKEETNA SPUR ROAD

CK. 244

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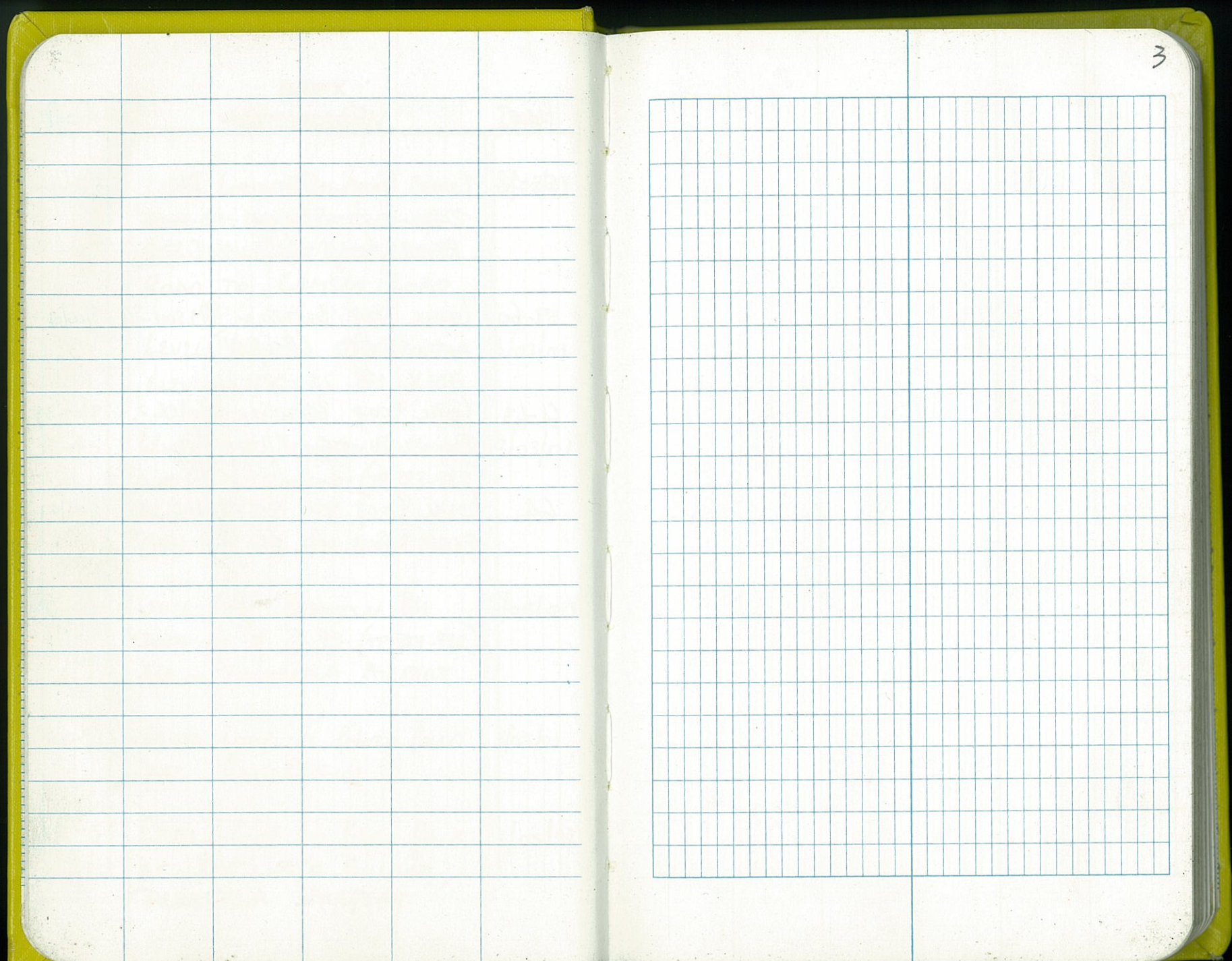
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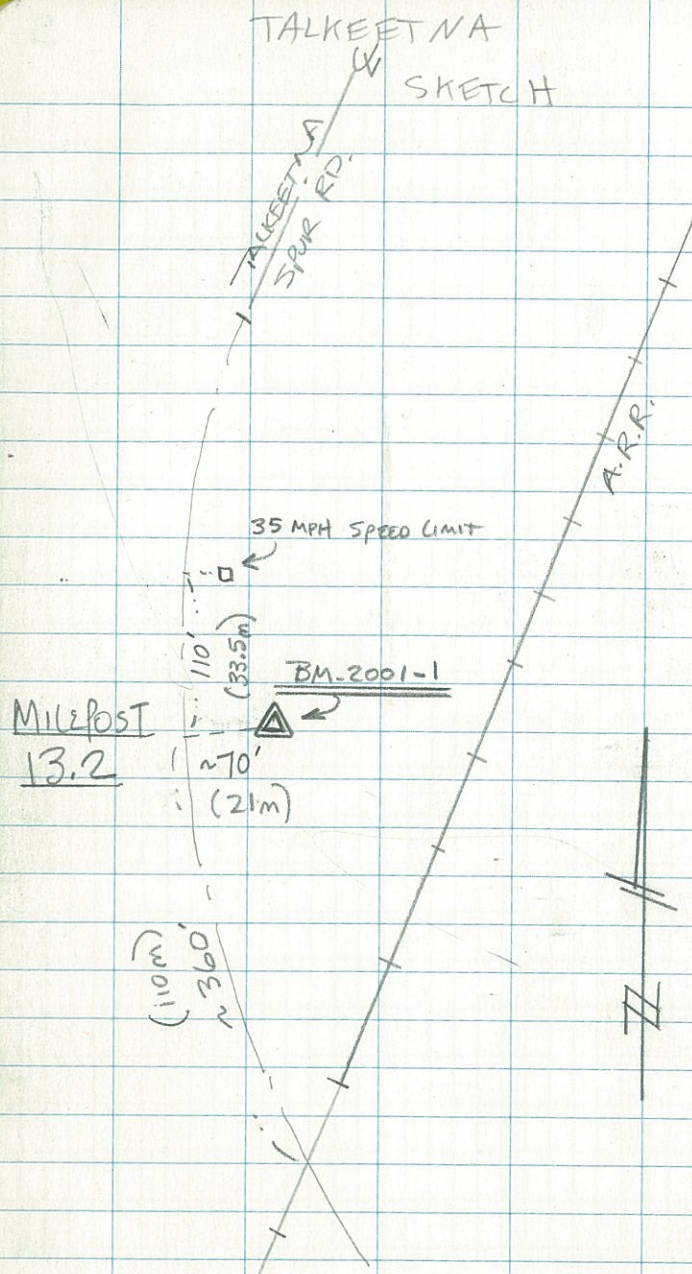


3



4





2/26/01 ~~SS~~
30°

BK2

6

MURRAY NASH
JIM TRUMP

BM 2001-01
3 SECTIONS OF 3' ALUMINUM
DRIVE ROD = 9' (2.7m)

82 mm
di. ALCAP

4469-S

BM

2001-1

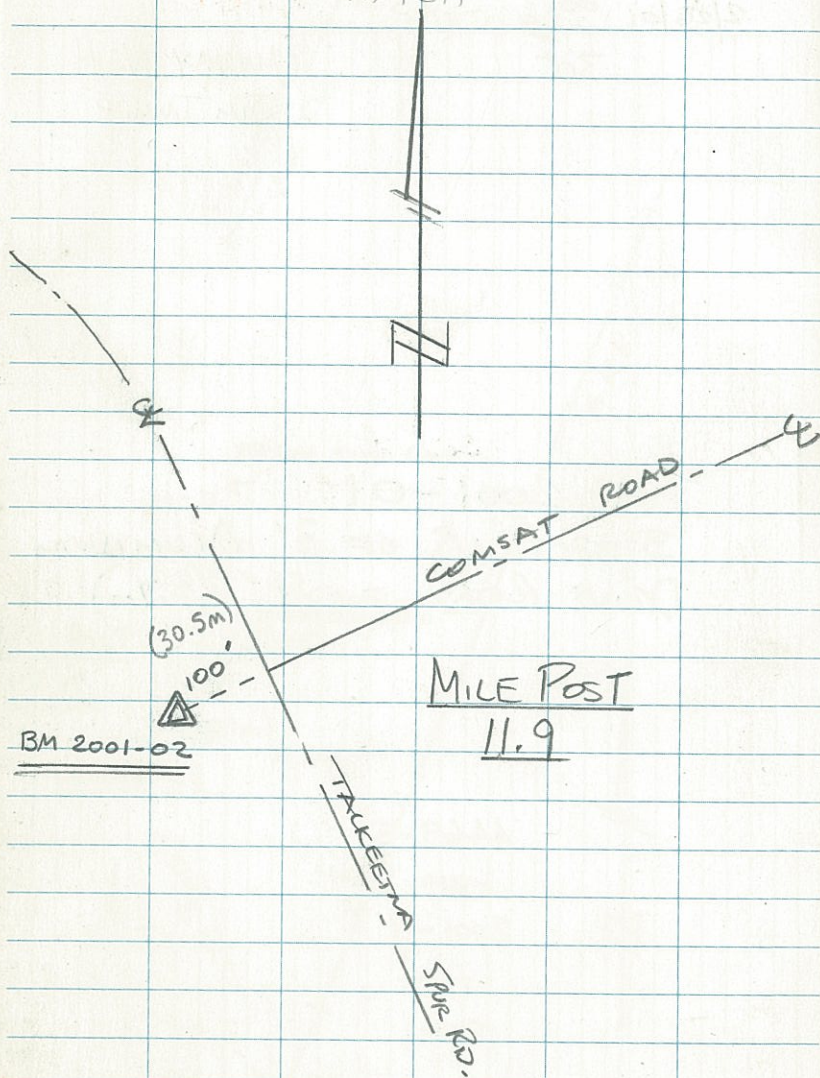
DOT

2001

(TYPICAL) 5.4

3.2

TALKEETNA
SKETCH



2/26/01

BK 2

7

SAME CREW

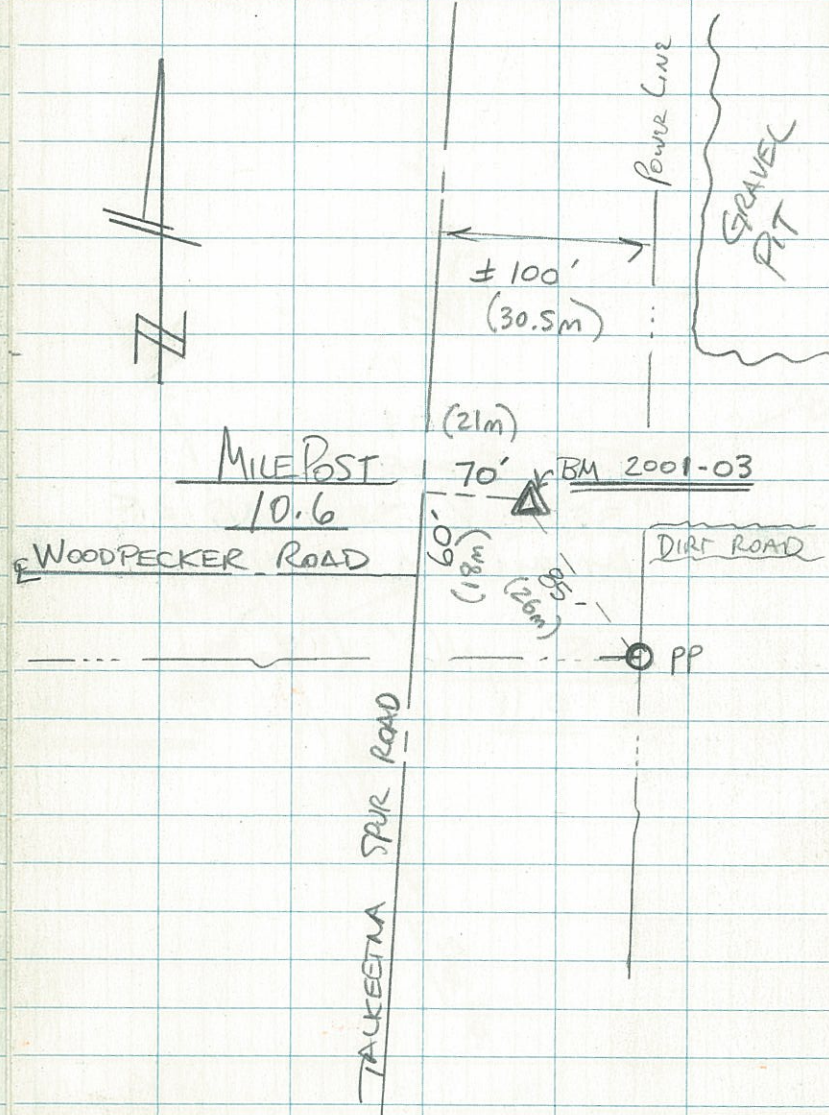
2001
BM ~~2000~~-02
SET 2 SECTIONS OF
ALUMINUM DRIVE ROD =
6' (1.8m)

4.1

2.2

1.9

TALKEETNA SKETCH



2/26/01

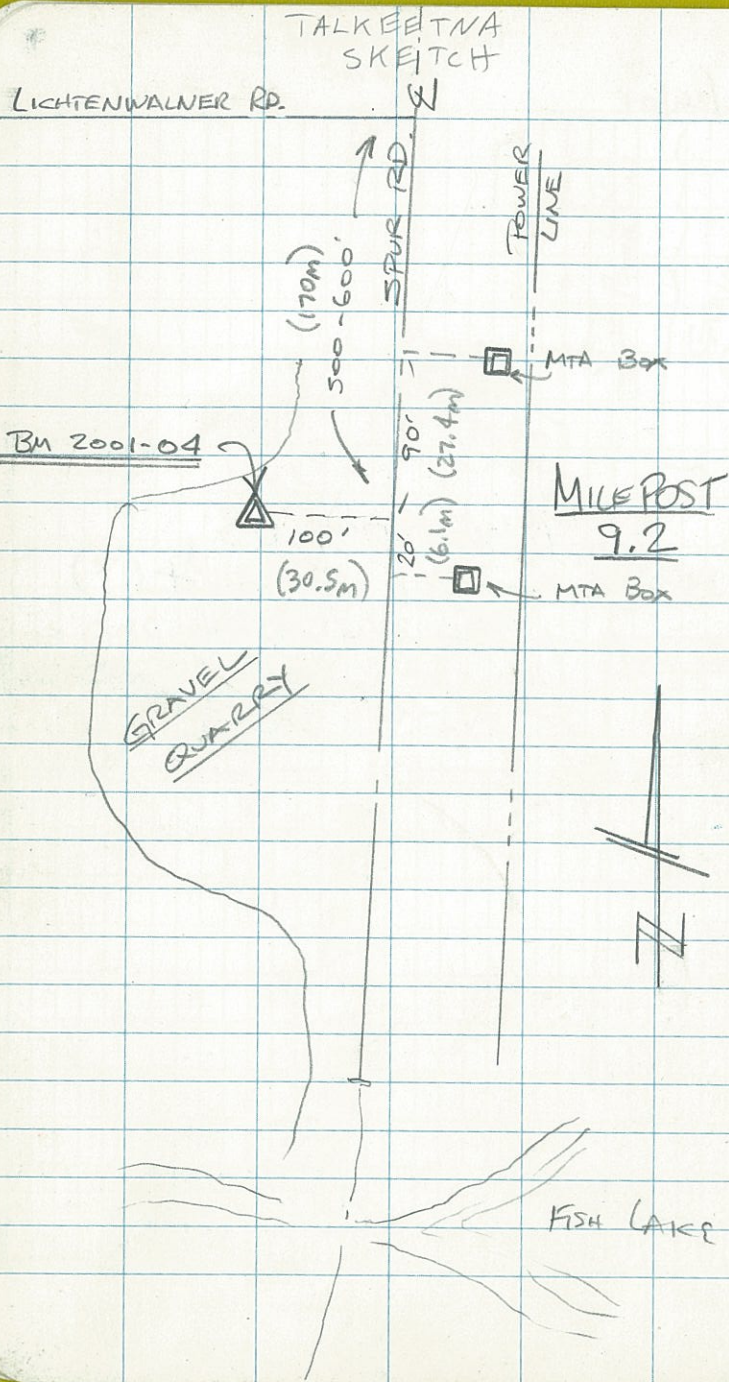
BK 2

8.

SAME (rem)

BM 2001-03
SET 1 SECTION + (?)
ALUMINUM DRIVE ROD =
3' (+?) (1m+)

2.8



2/26/01

BK 2

9

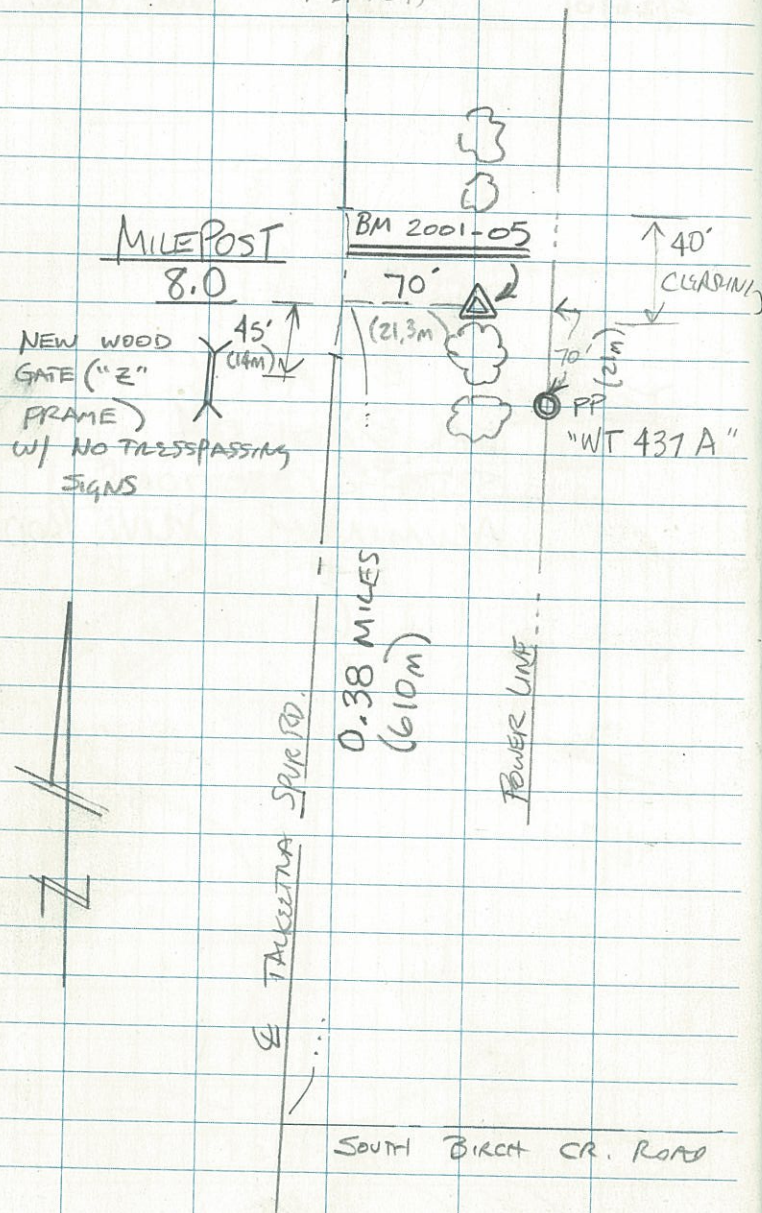
SAME (NEW)

BM 2001-04
SET 2 SECTIONS
ALUMINUM DRIVE ROD =
6' (1.8m)

11.45
2.2
9.2

TO

TALKEETNA SKETCH



2/26/01

BK 2

10

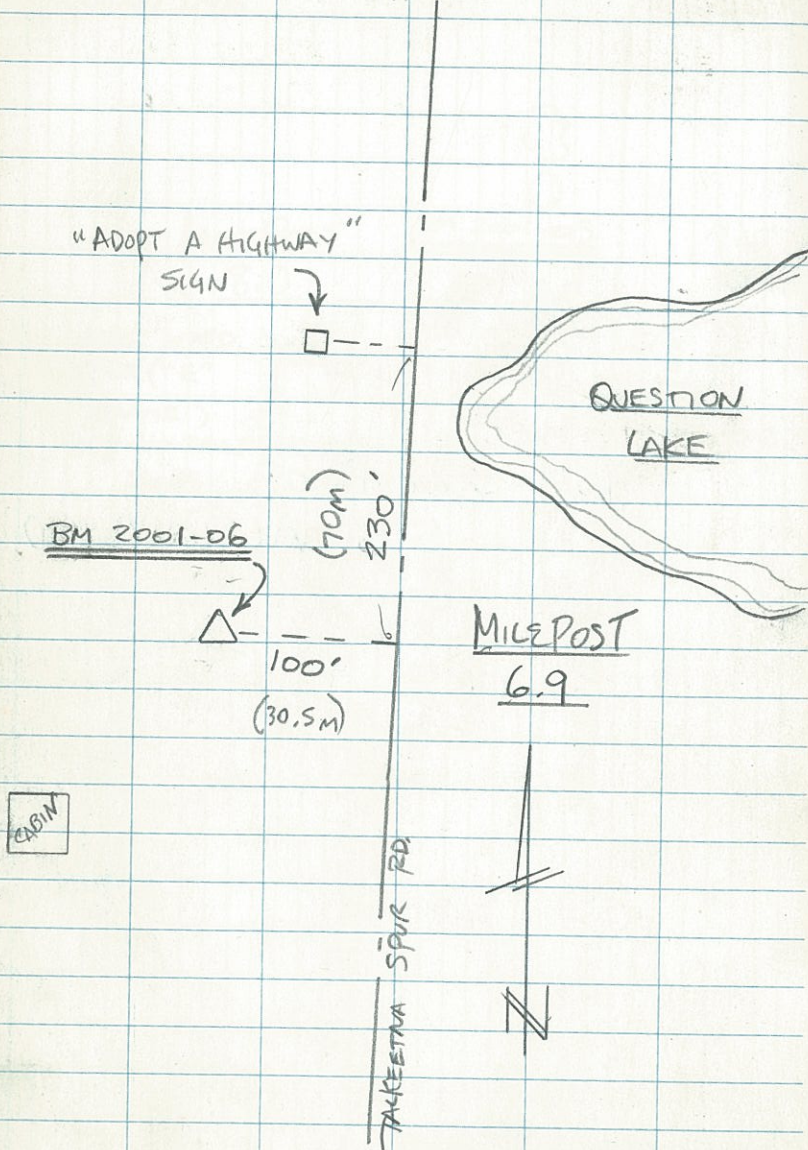
SAME CREW

BM 2001-05
SET 5.5' AL. DRIVE ROD
(1.7m)

10.2

~END OF DAY~

TALKEETNA SKETCH



W

BK 2

11

2/27/01



30°

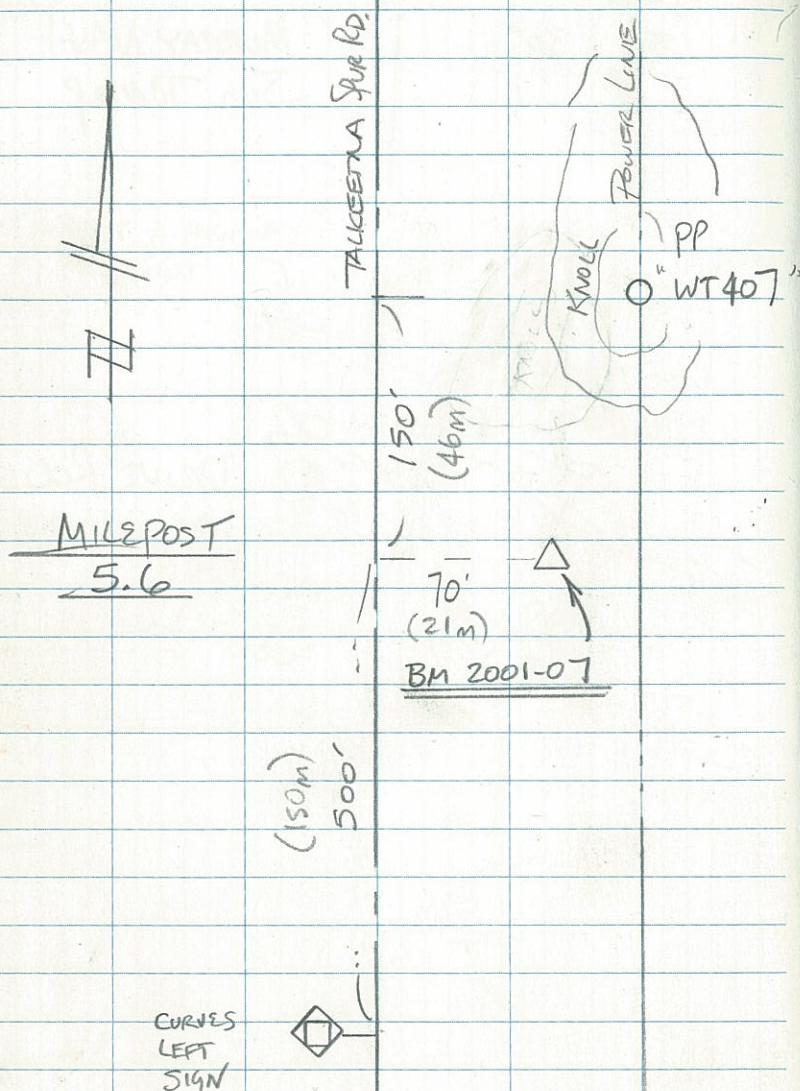
BEGIN DAY

MURRAY NASH
Jim Trump

BM 2001-06
SET ~4.5' AL DRIVE ROD

9.1

TALKEETNA ESKETCH



2/27/01

BK 2 12

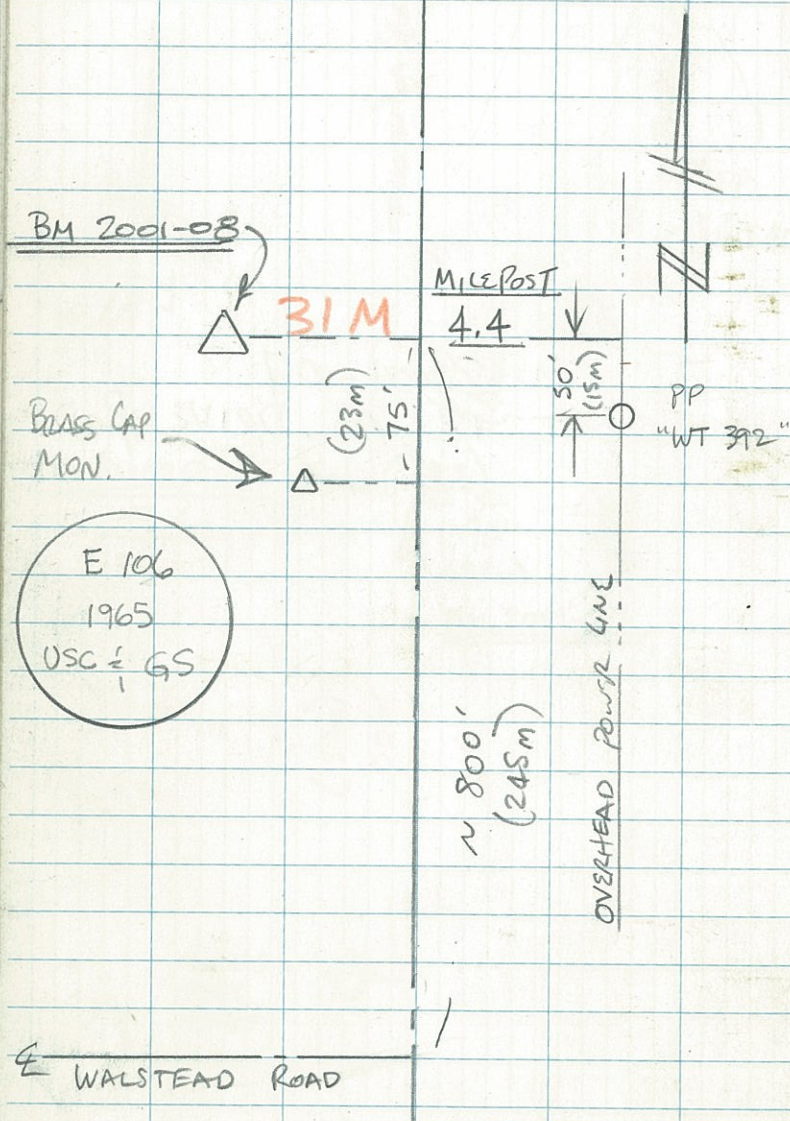
SAME CREW

BM 2001-07
SET 12' AL. DRIVE ROD
(3.7m)

7.85

TALKEETNA

E SKETCH



2/27/01

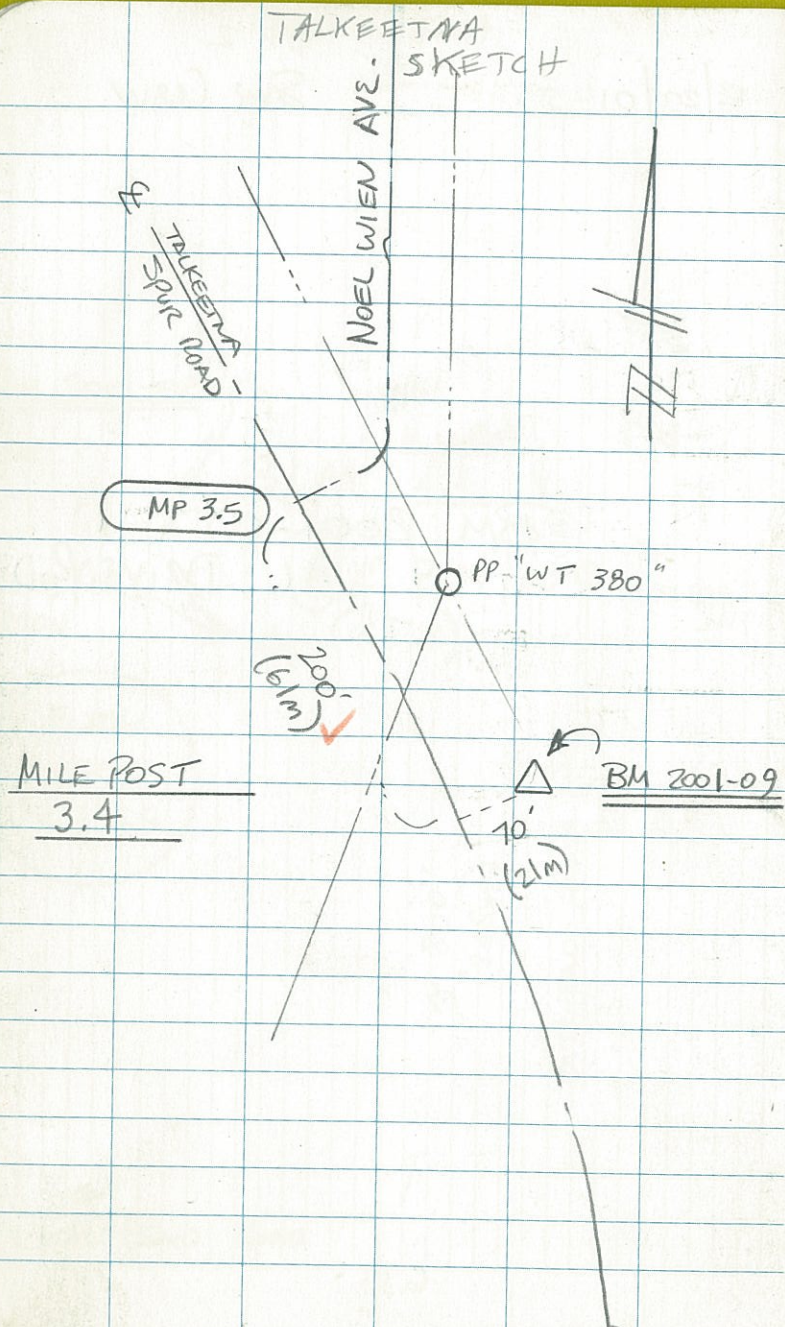
BK 2

13

SAME CREW

BM 2001-08
SET 9' AL, DRIVE ROD
(2.7m)

6.55



2/27/01

BK 2
SAMZ CREW

14

BM 2001-09
SET 8' (plus) AL Drive Rod
(2.4m)

TALKEETNA
SKETCH
E

MILE POST
2.2



(2m)
70'



BM 2001-10



PP
"WT 364 A"

FIELD

OPEN

TALKEETNA
SPR RD.

2/27/01

SE
11"

BK 2
Same Crew

15

BM 2001-10
Set 4.5' AL DRIVE ROD
(1.4m)

4.45

TALKEETNA SKETCH

SHADE TREE DR.

BM 2001-11
MPI 1.0



100'
(30.5m)

(30.5m)
100'

100'

120'

(37m)



MILE POST
1.0

◇ MILE POST 1

MICHELE DR.



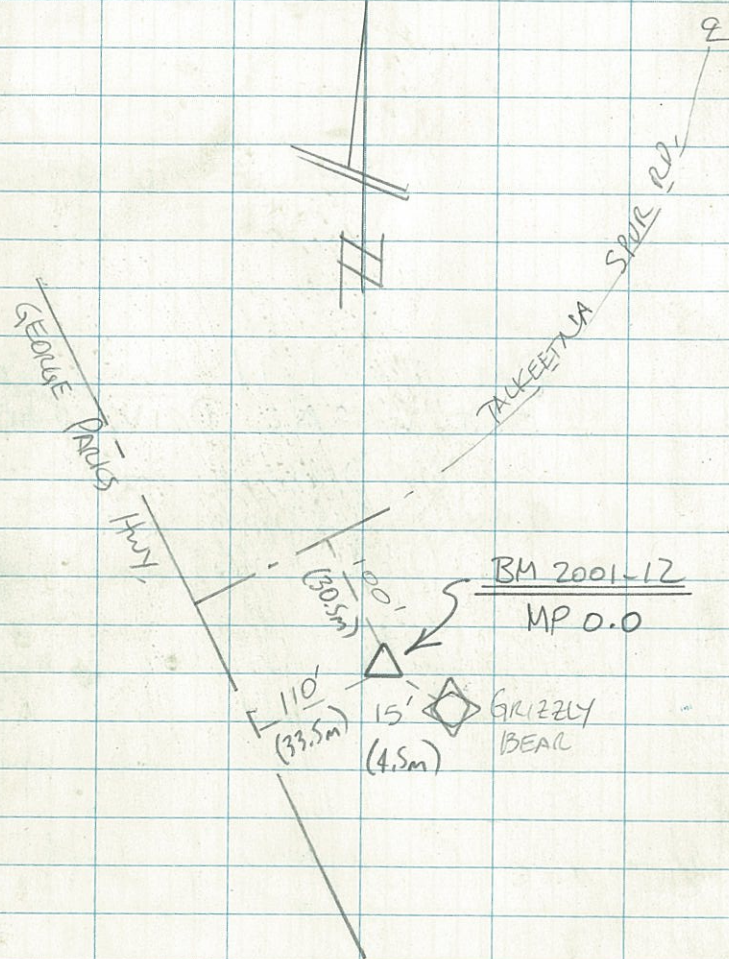
2/27/01

BK 2
SAME CREW

16

BM 2001-11
SET 6' AL DRIVE ROD
(1.8m)

TALKEETNA
SKETCH



2.2

2/27/01

BK 2
SAME CREW

17

BM 2001-12
SET 9' AL DRIVE ROD
(2.7m)

~ END OF DAY ~

TALKEETNA

STA	+	HI	-	ELEV
-----	---	----	---	------

BEGIN LEVEL LOOP

B-106	0.9985	124.6995		123.701
-------	--------	----------	--	---------

RANDOM	1.5999	124.3973	1.9021	122.7974
--------	--------	----------	--------	----------

TP 301	1.7782	124.6198	1.5557	122.8416
--------	--------	----------	--------	----------

RANDOM	1.8254	125.0379	1.4073	123.2125
--------	--------	----------	--------	----------

RANDOM	1.0985	124.7161	1.4203	123.6176
--------	--------	----------	--------	----------

TBM-TP302	2.0523	125.2338	1.5346 1.535	123.1815
-----------	--------	----------	----------------------------	----------

RAN.	1.7559	125.6711	1.3186	123.9152
------	--------	----------	--------	----------

RAN.	1.5895	125.9576	1.3030	124.3681
------	--------	----------	--------	----------

TP 303	1.8098	126.3405	1.4269	124.5307
--------	--------	----------	--------	----------

RE-RUN LOOP p. 61-63

THIS BOOK

2/28/01

BK 2
BEGIN DAY

18

20° 30'

X MURRAY NASH
Ø SIM TUMP

BRASS CAP ~ WEST SIDE OF SPUR ROAD
~ 80M SOUTH FROM ENTRANCE TO
ASSEMBLY OF GOD CHURCH.

"TKA002"

"TP 301" ~ PK WEST EP
SOUTH OF DRIVEWAY

HUSKY DATA
COLLECTOR

SOKKIA SDL 30

D 11804

SN 2601

POWER
LEVEL

SOKKIA SDL 30

"TBM TP-302" ~ SET SPK. AT BASE OF
35cm. DIAMETER SPRUCE, WEST SIDE OF
TREE, ~16M. NORTH OF & S. BIRCH CR. ROAD,
~18M. EAST OF & SPUR ROAD.

"TP 303" PK WEST E.P. NORTH OF
"TALKEETNA GOOD TIMES D/W"

TALKEETNA				
STA	+	HI	-	SS ELEV
RAN.	1.5321	126.3546	1.5180	124.8225
RAN.	1.3686	126.2795	1.4437	124.9109
BM 2001-05			1.4200	124.8595

BEGIN RETURN Loop

BM 2001-05

→ 1.4014 126.2609

RAN. 1.5175 126.3429 1.4355 124.8254

RAN. 1.4673 126.2430 1.5672 124.7757

RE-Run Loop ~ p. 61-63 THIS BOOK

2/28/01

BK 2

19

8AM2 Crew

BM 2001-05" See p. 10

OLD RAN.

STA	+	TALKEETNA HI	-	SS	ELEV
		126.2430			
		125.8991			
TP 303	1.3670	128.7701	1.7109		124.5321
			(1.55)		
		125.4117			124.0696
RAN.	1.3421	128.2827	1.8295		126.9406
			(1.50)		
		125.1471			123.8242
RAN.	1.3229	128.0181	1.5815		126.6952
		125.127			123.1823
TBM	1.9447	127.9980	1.9648		126.0533
		124.7368			123.5562
RAN.	1.1806	127.6078	1.5708		126.4272
		124.3904			123.1187
RAN.	1.2117	127.2614	1.6181		125.9897
		124.270			122.846
TP 301	1.4240	127.141	1.5444		125.717
		124.8774			123.0017
RAN.	1.8757	127.7484	1.2683		125.8927

RE-RUN Loop p. 61 to 3745 Book

2/28/01

BK 2

20

SAME CREW

OLD RAN.

OLD RAN.)

TBM TP-302

STA	+	TALKEETNA HI	-	ELEV
-----	---	-----------------	---	------

B-106		1.1696		123.7078
-------	--	--------	--	----------

$$\sum =$$

33.5236

$$\sum =$$

33.5168

EOC = +0.0068 m

RE-RUN LOOP P. 61-63
THIS BOOK

2/28/01

BK 2
SAME CREW

21

(123.701)

~END OF DAY~

STA	+	TALKEETNA HI	-	SS NAVD-29 ADJ	ELEV
<u>BEGIN Level Loop</u>					
BM 2001-05				121.2121	124.8595
	1.75000	126.6095			
			1.6223		
RANDOM	2.0921	127.0793	1.6233		124.9872
RANDOM	2.9219	129.4675	0.5337		126.5456
TP 304	1.2995	129.719	1.0480	124.7699	128.4195
RANDOM	0.5028	127.3428	2.8790		126.840
	0.2990	124.0615	3.5803		123.7625
	0.8523	121.3799	3.5339		120.5276
TP 305	0.1852	118.8147	2.7504	114.9795	118.6295
	0.0529	115.0633	3.8043		115.0104

3/01/01

BEGIN DAY

BK 2

22

20° 30'

X MURRAY NASH
φ JIM TUNIP

"BM 2001-05" ~ SEE p. 10

X
SOKKIA SCL 30
D 11804
SN 2601

HUSKY FS 3

"TP 304" - 60d Spk.
@ WEST EP TOP
OF HILL

DATA FILE
"FKA 003"
"FKA 004"

"TP 305" - LARGE GALV. SPIKE @
EAST EP MIDWAY DOWN HILL.

	STA	+ HI	-	SS	ELEV
				NAVD 29	
		115.0633		ADJ.	
B	RANDOM	1.5329	113.9375	2.6587	112.4046
	TBM TP 306	2.0066	113.9221	2.0220	108.2654
R		1.3746	113.4767	1.8200	112.1021
R		1.3970	113.1406	1.7331	111.7436
T					
R	TP 307	1.1941	112.5317	1.8030	107.6893
		0.6393	110.8207	2.3503	110.1814
		0.2108	107.7442	3.2873	107.5334
TP					
	TP 308	0.6360	104.5392	3.8410	103.8970
					103.9032

$$3 \mid 01 \mid 01 \dots$$

BK 2

23

SAME CREW

"TBM TP 306" ~ SPK. ON WEST
SIDE 30cm. di, BIRCH TREE 16m.
EAST OF ♀ SPUR RD. DRIVEWAY
ON OPPOSITE SIDE, TP 306 IS
50m SOUTH OF SMALL LAKE.

"TP 307" ~ GALV. SPIKE @ WEST E.A

"TP 308" ~ GALV. SPK. @ EAST E.P.
BY "FISH LAKE" SIGN
(SOUTH)

STA	+	H1	-	NAVD'29 ELEV ADJ.
-----	---	----	---	----------------------

<104.5392>

E "FISHLK"	2.2802	104.4361	2.3833	98.5085	102.1559
------------	--------	----------	--------	---------	----------

TP 309	3.3630	106.2721	1.5270	99.2617	102.9091
--------	--------	----------	--------	---------	----------

	2.9055	108.9049	0.2727		105.9994
--	--------	----------	--------	--	----------

	2.0091	110.0615	0.8525		108.0524
--	--------	----------	--------	--	----------

BM 2001-04	1.3214		1.3437	105.0700	108.7178
---------------	--------	--	--------	----------	----------

BEGIN RETURN LOOP

BK 2

24

3/01/01

SAME CREW

"FISHLK"

GPS CONTROL POINT ~ TOP OF
DRIVE ROD SET AT TOP OF NORTH
BANK BIRCH CR. ~ 40m. EAST
OF E SPUR ROAD.

"TP 309" ~ GALV. SPK. WEST E.P.
BY NORTH "FISH LAKE" SIGN.

"BM 2001-04" PRIMARY MON ON
NORTH END GRAVEL QUARRY ~ SEE
P. 9, THIS BOOK

TALKEETNA					
STA	+	HI	-	NAVD '29 ADJ	ELEV
BM ²⁰⁰¹ 04	1.324	110.0392		105.0700	108.7178
RANDOM	0.8156	108.8681	1.9867		108.0525
	0.6807	106.6803	2.8685		105.9996
TP 309	1.6027	104.5119	3.7711	99.2617	102.9092
TP 308	4.0078	107.9095	0.6102	100.2550	103.9017
	3.5757	111.1064	0.3788		107.5307
	1.8434	112.5835	0.3663		110.7401
TP 307	1.7694	113.1052	1.2477	107.6893	111.3358
	1.6101	113.3475	1.3678		111.7374
	1.7012	113.7969	1.2518		112.0957
TBM					
TP-306	1.8741	113.7842	1.8868	108.2654	111.9101

3/01/01

BK 2

25

SAM2 (NEW)

STA	TALKEETNA			NAVD 29 ADJ.	ELEV
	+	H _i	-		
		113.7842			
RANDOM	2.3615	114.7591	1.3866		112.3976
	3.6342	118.2713	0.122		114.6371
	3.4859	121.4005	0.3567		117.9146
TP 305	2.7652	121.3896	2.7761	114.9795	118.6244
	3.4277	123.9499	0.8674		120.5222
	3.9332	127.6901	0.193		123.7569
	2.9317	129.7661	0.8557		126.8344
TP 304	1.2195	129.6346	1.351	124.7699	128.4151
	0.7310	127.2732	3.0924		126.5422
	1.3097	126.2929	2.2900		124.9832

3/01/01

BK 2

26

SAME (REV)

(MANUAL READ) 0

(MANUAL READ) 0

(MANUAL READ) 0

STA + TALKRETHA
 111 - NAVD 89 ELEV
 ADJ.

<126.2929>

BM
 2001-05 1.4342 121.2121 124.8587

Σf 76.1065 Σv 76.1073

EOC = 0.0008 m.

BK 2 27

SAME CREW

3/01/01

END LOOP

TALKEETNA					
STA	+	HI	-	NAVD'29 ADJ.	ELEV
<u>BEGIN LOOP</u>					
BM					
2001-04	3.1132	111.831		105.0700	108.7178
RANDOM	2.7190	114.2902	0.2598		111.5712
	2.1074	116.0856	0.3120		113.9782
TBM					
TP 310	1.4989	116.0704	1.5141	110.9218	114.5715
	1.8411	116.9811	0.9304		115.1400
	1.7571	117.688	1.0502		115.9309
TP 311	1.8479	118.3437	1.1922	112.8454	116.4958
	1.8100	119.2075	0.9462		117.3975
	1.6070	119.8224	0.9921		118.2154

3/01/01

BK 2

28

SAMZ (CREW)

TBM "TP 310" ~ SET SPIKE IN
24 cm di. BIRCH TREE, 18m
EAST OF SPUR RD. E. 12m
SOUTH OF E LICHTENWALNER RD.

"TP 311" ~ GALV. SPIKE @ WEST E.P.
65m. SOUTH OF E EAST ARCTIC
TERN AVE.

STA	TALKEETNA				ELEV
	+	H	-	NAVD'29 ADJ.	
	<119.8224>				
TP 312	1.7186	120.1847	1.3563	114.8166	118.4661
TP 313	1.8606	120.6793	1.3660	115.1686	118.8187
	1.8342	121.2518	1.2617		119.4176
	1.5080	121.2235	1.5363		119.7155
TBM TP 314	1.5758	121.2113	1.5880	115.9856	119.6355
	1.7370	121.6302	1.3181		119.8932
	1.6789	122.0955	1.2136		120.4166
TP 315	1.7704	122.4467	1.4192	117.0275	120.6763

3/01/01	BK 2	29
	SAMZ (REW)	
"TP 312" ~ SET GALV. SPK. @ EAST E.P. ACROSS FROM HUDSON DRIVEWAY		
"TP 313" ~ SET PK. EAST EP @ MILEPOST 10 MARKER		
"TBM TP314" 54 cm. d. Birch WEST SIDE OF ROAD 32 m. FROM E		
"TP 315" GALV. SPK, EAST EP 23 m. SOUTH OF DRIVEWAY w/ BIG GATE ~ "TALKEETNA MOOSE CABINS"		

TALKERTNA					
STA	+	H ₁	-	NAVD 29 ADJ.	ELEV
		<122.4467>			
	1.7741	122.9668	1.2540		121.1927
	1.7472	123.4197	1.2943		121.6725
TP 316	2.0008	124.1867	1.2338	118.5378	122.1859
	1.8789	124.8356	1.2300		122.9567
BM					
2001-03			2.0754	119.1114	122.7602

BEGIN RETURN Loop

3/01/01

BK 2

30

SAME (REV)

"TP 316" ~ GALV SPK E WEST EP
~ 180m SOUTH OF WOODPECKER
~ 10m S OF D/W ROAD.

"BM 2001-03" ~ @ WOODPECKER
ROAD ~ SEE p. 8 THIS BOOK

~ END OF DAY ~

TALKEETNA

STA + H1 - NAVD '29 ELEV

ADJ

BEGIN RETURN LOOPBEGIN DAY

BM

2001-03 201.

119.1114

TP

→

2.0139 124.7741

122.7602

1.1686 124.1254 1.8173

122.9568

B

26

TP 316

1.2712 123.4565 1.9401 118.5378 122.1853

1.4262 123.0099 1.8778

121.5787

1.4096 122.5994 1.8151

121.1898

TP 315

1.4324 122.1067 1.9251 117.0275 120.6743

1.3705 121.5093 1.9679

120.1388

1.6489 121.4001 1.7581

119.7512

3/02/01

BK 2

31

20°

SS
%X MURRAY NASH
P. SIM THOMP

TALKEETNA
STA + H7 - NAVD '29 ELEV
ADJ.

<121,4001>

TBM

TP 314 1.7577 121.389 1.7688 115.9856 119.6313

1.5135 121.0072 1.8953 119.4937

1 1.7503 120.7312 2.0263 118.9809

TP 313 1.5903 120.3845 1.9170 115.1686 118.8142

1 TP 312 1.2645 119.7272 1.9218 114.8166 118.4627

1.3729 118.9322 2.1679 117.5593

1.6532 118.4184 2.1670 116.7652

TP 311 1.3655 117.8563 1.9276 112.8454 116.4906

1.3197 116.9896 2.1864 115.6699

1.1655 116.2433 1.9118 115.0778

3/02/01

BK 2

32

SAME CREW

New Battery

STA	+	TALKEETNA H	-	NAVD'29 ADJ.	ELEV
-----	---	----------------	---	-----------------	------

<116.2433>

TBM				110.9218	
TP 310	1.6539	116.2216	1.6756	1.6756	114.5677

	0.8683	114.0749	3.0150		113.2066
--	--------	----------	--------	--	----------

	0.9403	112.5091	2.5061		111.5688
--	--------	----------	--------	--	----------

	1.0458	111.1121	2.4428		110.0663
--	--------	----------	--------	--	----------

BM 2001-04			2.3963	105.0700	108.7158
---------------	--	--	--------	----------	----------

$\sum^T =$
70.3688

$\sum^T =$
70.3708

$\Sigma C = 0.0020 \text{ m}$

~ END OF LOOP ~

BK 2

33

3/02/01

SAME CREW

(108.7178)

TALKEETNA
STA + H - NAVD '29 ELEV
ADJ.

BEGIN Loop

BM
2001-03 2.1146 124.8748 119.1114 122.7602

2.0811 125.7058 1.2501 123.6247

39 77
1.9362 126.3459 1.2981 124.4097

12 34
TP 317 2.0718 127.2232 1.2005 121.4947 125.1454

889 57
1.7432 127.6909 1.2195 125.9477

52 40
TP 318 1.9312 127.8772 1.7449 122.2947 125.9460

52 64
1.8188 128.0372 1.6588 126.2184

16 60
1.6456 128.0536 1.6292 126.4080

TBM 78 68
TP 319 1.761 128.0498 1.7648 (m) 126.2888
122.6388

3/02/01

BK2

34

SAM2 (CEN)

"BM 2001-03" AT WOODPECKER RD.
SEE P. 8, THIS BOOK

"TP 317" ~ GALV. SPK. EAST E.P. &
MP 11.0 & "ADAPT A HIGHWAY"
SIGN.

"TP 318" ~ GALV. SPK. WEST E.P.
95m S. OF DRIVEWAY TO
ROUGH-SIDED CABINS ON EAST
SIDE OF ROAD

"TBM TP 319" 33cm di
SPRUC 18m FROM E SPUR RD.
64m NORTH OF DRIVEWAY

TALKEETNA				
STA	+	HI	-	NAVD 29 ELEV ADJ.
		40		78
	2.1262	128.9260	1.2500	126.7998
		24		599
	2.2225	129.8844	1.2641	127.6619
		780		52
TP 320	1.9928	130.2800	1.5972	124.6373 128.2872
		02		52
	1.7450	130.6622	1.3628	128.9172
		40		796
TP 321	1.9144	130.9960	1.5806	125.4310 129.0816
		00		34
	1.9866	131.6020	1.3806	129.6154
		58		21
TP 322	1.7437	131.4078	1.9379	126.0135 129.6641
BM				42
2001-2			2.6616	125.0957 128.7462

BEGIN RETURN LOOP

3/02/01

BK2

35

SAME Crew

"TP 320" ~ GALV. SPK. WEST E.P.
JUST SOUTH NORTH OF CUDAS LOG YARD.

"TP 321" ~ GALV. SPK EAST E.P.
20 m. SOUTH FROM E TRANSFER
STATION DRIVEWAY.

"TP 322" ~ PK @ WEST E.P. ACROSS
ROAD FROM M.P. 12 ~ 21 m. NORTH
OF 55 MPH SIGN.

"BM 2001-2" ~ AT COMSAT
RD. ~ SEE p. 7

STA	+	HI	-	NAVD 29	ELEV
				ADJ.	
		$\langle 128.7462 \rangle$			
BM		16			42
2001-2	2.6374	131.3836		125.0957	128.7462
		11			26
TP 322	1.8185	131.4831	1.7190	126.0135	129.6646
		13			27
	1.3386	130.9533	1.8684		129.6147
		32			01
TP 321	1.5331	130.6152	1.8712	125.430	129.0821
		25			66
	1.2959	130.2145	1.6966		128.9186
		05			69
TP 320	1.4936	129.7825	1.9256	124.6373	128.2889
		586			44
	1.1966	128.8606	2.1185		127.664
		34			54
	1.2480	128.0454	2.0632		126.7974
TBM					2884
TP 319	1.743	(m) 14	1.755	(m)	126.2904
		128.0334		122.6388	

STA	+	HI	-	NAVD 89	ELEV
-----	---	----	---	---------	------

ADJ.

 $\langle 128,7462 \rangle$

BM

16

42

2001-2	2.6374	131.3836	125.0957	128.7462
--------	--------	----------	----------	----------

125,0957

128 7462

			11			26
TP 322	1.8185	131.4831	1.7190	126.0135	129.6646	

126.0135

129.6645

1.3386	¹³ 130.9533	1.8684	²⁷ 129.6147
--------	------------------------	--------	------------------------

100

27

129.6147

TP 32	1.533	32 30.6152	1.8712	125.430	01. 129.0821
-------	-------	---------------	--------	---------	-----------------

32

Q1.

129.0821

1.2959	130.2145 ²⁵	1.6966	128.9186 ⁶⁵
--------	------------------------	--------	------------------------

25

65

1289186

		05		69
TP 320	1.4936	(29.78 25)	1.9256	124.6373 28.2889

50

69

128.2889

	586		44
1.1966	128.8605	2.1185	127.654

586

44

127.654

	34		54
1,2480	128,0454	2,0632	126,7974

34

S4

126,7974

TBM

2884

TP 319	1.743 (m)	14	1.755 (m)	126.2904
--------	-----------	----	-----------	----------

128,03~~3~~4

122.6388

БКЗ

36

V3/02/01: 174KN

87412 (25m)

[illegible]

STA	+	TALKEETNA HI	-	NAVD'29 ADJ.	ELEV
		<128,0334>			
		25			4070
	1.5360	27,945	1.6244		126.4090
		27			66
	1.5961	21,8147	1.7264		126.2186
		188			31
TP 318	1.6757	21,6208	1.8696	122.2947	125.9451
		24			13
	1.2611	27,2044	1.6775		125.9433
		18			37
TP 317	1.2181	26,3638	2.0587	121.4947	125.1457
		896			14
	1.1782	25,5946	1.9504		124.4134
		33			63
	1.2970	24,9153	1.9733		123.6183
BM					07
2100-3			2.1526	119.1114	122.7627

$$\sum^{+} = 54.9076 \quad \sum^{-} = 54.9071$$

$$EC = 0.0005$$

3/02/01

BK 2

37

SAME CREW

(122.7602)

END OF LOOP

TALKEETNA
STA + HI - NAVD 29 ELEV
ADJ.

TP 320 1.4603 129.7475 124.6373 128.2872

X-105 2.0143 129.7336 2.0282 124.0695 127.7193

TP 320 1.4462 124.6373 128.2874

$\Sigma^+ = 3.4746$ $\Sigma^- = 3.4744$

FC = 0.0002

BK 2 38

3/02/01

Same Crew

"TP 320" ~ See p. 35, THIS BOOK

"X 105" 1965 USC & GS MON.
65m SOUTH OF E LOVE-LEE LAKE
18m EAST OF E SPUR RD.

END OF DAY

TALKEETNA				
STA	+	HI	-	NAVD '29 ELEV ADJ.
BM				
T 2001-2	2.7019	131.4481		125.0957 128.7462
	1.3227	131.7793	0.9915	130.4566
X	1.2344	132.1944	0.8193	130.96
TP 323	0.9992	131.5827	1.6109	126.9326 130.5835
T	2.8356	132.756	1.6623	129.9204
	3.2260	135.7487	0.2333	132.5227
TP 324	3.4153	138.277	0.8870	131.2113 134.8617
	3.3985	141.5037	0.1718	138.1052
	3.8099	144.9626	0.3510	141.1527
	1.7442	146.58	0.1268	144.8358
"D109"	1.3525	146.6037	1.3288	141.6007 145.2512

3/03/01

10° 00'

BK 2

39

JAMES (NEW)

M. NASH

J. TRUMP

"TP323" GALV. SPK. ON EAST E.P.
ACROSS ROAD FROM SMALL FRAME
BUILDING.

"TP324" GALV. SPK. ON WEST E.P.
ACROSS FROM CURVES SIGN



"D109" USC & GS 1965 B.M.
15m NORTH OF V.O.R. SIGN
DRIVEWAY, 20m WEST OF S

STA	+	TALKEETNA HI	-	NAVO '29 ADJ.	ELEV
		<146.6037>			
	0.4318	145.2626	1.7679		144.8358
	2.5968	143.9649	3.8995		141.3681
	2.8001	143.9527	2.8123		141.1526
TP 325	0.9459	142.5966	2.3020	138.0005	141.6507
	0.1065	141.0348	2.2683		140.3283
	0.7323	139.1118	2.0553		138.9795
TBM					
TP 326	1.0749	139.7262	1.0605	135.0013	138.6513
	0.1449	136.3132	3.5519		136.1683
	0.0445	132.6411	3.7166		132.5966

3/03/01

BK2

40

SAME CREW

(PACU-TP)

"TP 325" ~ GALV. SPK. @ EAST EP
m. NORTH FROM SPEED LIMIT
45 SIGN.

"TBM TP 326" SPK IN end;
BIRCH TREE 28m W. OF
E SPUR RD. ACROSS FROM
ENTRANCE TO TALKEETNA
ALASKAN LODGE.

TALKEETNA
STA + H - NAVD '29 ELEV
ADJ

<132.6411>

0.1304 128.9877 3.7838 128.8573

0.3656 125.5015 3.8518 125.1359

0.4903 123.4730 2.5188 122.9827

TBM

TP 327 1.6947 123.4485 1.7192 118.1046 121.7538

0.0964 119.8262 3.7187 119.7298

0.3956 116.9131 3.8087 116.0175

0.2849 113.2672 3.4308 112.9823

0.0573 109.8139 3.5106 109.7566

TP 328 2.3643 110.2923 1.8859 104.2779 107.928

3/03/01

BK 2

41

SANZ CREW

"TBM TP 327" ~ SPK. IN 35cm
di. SPWGL, 28m. EAST OF E
ACROSS FROM NORTH END
OVERLOOK.

"TP 328" 60+ SPK ~ WEST E.P.
ACROSS FROM "A.R.R TALKEETNA
STATION" SIGN

STA	+	TALKEET NA H7	-	NAVD'29 ADJ.	ELEV
-----	---	------------------	---	-----------------	------

<110.2923>

	1.2481	110.0001	1.5403		108.752
--	--------	----------	--------	--	---------

BM

2001-1			3.3390	103.0105	106.6611
--------	--	--	--------	----------	----------

BEGIN RETURN LOOP

BM

2001-1	3.2959	109.957		103.0105	106.6611
--------	--------	---------	--	----------	----------

	1.5686	110.3225	1.2031		108.7539
--	--------	----------	--------	--	----------

TP 328	1.9179	109.8468	2.3936	104.2779	107.9289
--------	--------	----------	--------	----------	----------

	3.1813	112.9461	0.0880		109.7588
--	--------	----------	--------	--	----------

	3.7668	116.5235	0.1894		112.7567
--	--------	----------	--------	--	----------

	3.9432	119.9623	0.5044		116.0191
--	--------	----------	--------	--	----------

BK 2

42

3/03/01

SAME (REV)

"BM 2001-1" ~ AT INTERSECTION
SPUR RD & A.R.R. ~ SEE P.
6, THIS BOOK.

TALKRETNVA
STA + H1 - NAVD '29 ELEV
ADJ

<119.9623>

3.8502 123.5821 0.2304 119.7319

TBM

TP 327 1.8128 123.5692 1.8257 118.1046 121.7564

3.2238 126.2093 0.5837 122.9855

3.8406 128.9782 1.0717 125.1376

3.7364 132.595 0.1196 128.8586

3.8700 136.3088 0.1562 132.4388

3.5456 139.715 0.1394 136.1694

TBM

TP 326 1.0549 139.7073 1.0626 135.0013 138.6524

2.6260 141.6067 0.7266 138.9807

BK 2

43

3/03/01

SAME CREW

STA	4	111	-	MAVD '29	ELEV
				ADJ.	

$$\langle 141.6067 \rangle$$

2,3315	142.6586	1.2796		140.3271
--------	----------	--------	--	----------

TP 325	2.3806	144.0319	1.0073	138.0005	141.6513
--------	--------	----------	--------	----------	----------

0.1681	141.5357	2.6633		141.3686
--------	----------	--------	--	----------

0.2060	138.3115	3,4312	138.1055
--------	----------	--------	----------

TP 324	0.4500	135.3119	3.4496	131.2113	134.8619
--------	--------	----------	--------	----------	----------

0.2623	132.7839	2.7903		132.5216
--------	----------	--------	--	----------

1,6534	131,5129	2,8644	129,9195
--------	----------	--------	----------

TP 323	1.6980	132.2808	0.9901	126.9326	130.5828
--------	--------	----------	--------	----------	----------

0.9292	131.8883	1.3217	(30,959)
--------	----------	--------	----------

0.961	131,4232	1,4322		130,4561
-------	----------	--------	--	----------

44

3/03/01

same crew

TALKEETNA
STA + HI - NAVD'29 ELEV

$\langle 131.4232 \rangle$

BM
2001-2

2.6773 125.0957 128.7459

$\sum^+ = 98.9317$ $\sum^- = 98.9320$

EC = 0.0003

BK 2

45

3/03/01

SAM2 (RAW)

(128.7462)

END OF LOOP

STA	+	TALKFEETNA HT	-	NAVD 129 ADS	ELEV
-----	---	------------------	---	-----------------	------

BEGIN LEVEL LOOP

BM				103.0105	
2001-1	2.7672	109.4283			106.6611
	1.5955	109.3839	1.6399		107.7884
TP 329	1.2438	109.3625	1.2652	109.4691	108.1187
	1.7739	110.0033	1.1331		108.2294
	1.7990	110.7299	1.0724		108.9309
TBM					
TP 330	1.4743	110.9302	1.2740	105.8054	109.4559
	2.0818	111.6449	1.3671		109.5631
	1.7000	111.9740	1.3709		110.2740

BK. 2 46

3/03/01

SAME CREW - MN

"BM 2001-1" @ SPUR RD.
A.R.R. INTERSECTION - SEE
p. 6, THIS BOOK

"TP 329" ~ SPK. IN WEST SIDE
40 cm di. SPRUCE TREE.
EAST SIDE OF SPUR RD.
45 m. SOUTH OF LIBRARY
Driveway.

"TBM TP 330" - SAC IN SOUTH
SIDE di. BIRCH
22 m WEST OF E
40 m NORTH OF TRAILER

STA		TALKBETNA		NAVD 29	ELEV
		+	+	-	ADJ.
<111.9740>					
TBM				106.1977	
1	TP 331	2.1144	111.9615	2.1269	109.8471
2		1.2234	111.6616	1.5233	110.4382
		1.1871	111.0128	1.8359	109.8287
T	TP 332			2.0558	105.3068
					108.9570

3/03/01		BK. 2 47	
		SAME CRAW HP	
<p>"TBM TP 331" ~ Spk. in EAST SIDE 36cm di. BIRCH, 10m WEST OF E SPUR RD. 16m NORTH OF E ~ ELEMENTARY SCHOOL D/W.</p>			
<p>"TP 332" GALV Spk. EAST E.P. SPUR RD. @ 2ND ST CROSSING. IN LINE w/ NORTH WALL TALKEETNA CHRISTIAN CENTER.</p>			
~END OF DAY			

TALKEETNA
STA + H1 - NAVD '29 ELEV
ADJ.

BEGIN DAY

TP 322 3.1034 112.0604 105.3068 108.9570

G38 3.2436 112.0431 3.2609 105.1504 108.7995

~~TP 322 3.0853~~

BEGIN RETURN LOOP

TP 322 2.1201 111.0719 3.0853 105.3068 108.9578

1.9406 112.0137 1.0048 110.0731

TP 331 1.9430 111.7926 2.1641 106.1977 109.8496

1.2443 110.9970 2.0399 109.7527

TBM
TP 330 1.2220 110.6780 1.5410 105.8054 109.4560

1.1357 110.1284 1.6853 108.9927

BK-2 48

3/05/01

20° 23'

X MURRAY NASH
Ø Jim Trump

"G38" STAINLESS STEEL DRIVE
ROD ~ 15m WEST OF K2
AVIATION SIGN.

	TALKEETNA			
STA	+ H7 -	HFS	ELEV	
		NAYD '29		
	<110.1284>	ADJ.		
	1.2249	109.4993	1.8540	108.2744
TBM TP 329	1.3674	109.4881	1.3186	104.4691 108.1207
	1.7261	109.4907	1.7235	107.7646
BM				
ZOOI-1		2.8267	103.0105	106.6540

$\sum T =$	$\sum =$
39.2315	39.2286

$$\Sigma C = 0.0029$$

3/05/01

Blk-2 49
SAGE Creek-MN

$$(106.6611)$$

END OF Loop

STA + H7 - TALKEE TA
NAVD '29 ELEV
ADJ.

BEGIN LEVEL LOOP

~~G38~~

TP 332 2.1232 111.0902 105.3068 108.9570

"C WIND" 2.0938 111.0726 2.1014 ^{105.3286} ~~2.1014~~ 108.9788

1.0431 111.0183 1.0974 109.9752

"RANDOM" 1.4473 110.4454 2.0202 108.9981

"303-A" 1.6243 110.4294 1.6403 ^{105.1560} 108.8051

1.5428 110.3255 1.6467 108.7927

Blos/01 BK. 2 50
SAME CREW MN

"TP 332" GALV. SPK. EAST E.P.
ACROSS FROM CHRISTIAN CENTER

"C WIND" ~ SPK ON PP BY
CHINOOK WINDS ON 2ND ST. ~
OLD TBM. (WASH)

"303-A" ~ PHOTO CONTROL POINT.
PK IN ASPHALT MID-WAY E
SOUTH OF SOUTH WALL - POST
OFFICE ~ SET BY OTHERS.



TALKEETNA					
STA	+	HI	NAD'29	NAD'29	ELEV
			ADS.	ADS.	
CONTRACTOR					
"POINT"	1.8273	110.3101	104.8426	1.8427	108.4928
	1.6092	109.9744		1.9449	108.3552
				1.5927	
"DRAMA"	1.5832	109.9649	104.7415	1.5927	108.3917
	1.4785	109.4408		2.0026	107.9623
				0.5	
"TBM"	0.5196	109.4288	105.2590	0.5316	108.9092
	1.8514	109.7889		1.4913	107.9375
	2.0808	110.6482		1.2215	108.5674
TP 332			105.3068	1.6882	108.9600
$\Sigma =$		20.8245	$\Sigma =$		20.8215
FC = 0.0030					

3/05/01	BK. 2 51 SAME CREW MN
"CONTRACTOR PT." ~ PK ON EASTERN E.P. @ "WELCOME TO BEAUTIFUL DOWNTOWN TALKEETNA SIGN."	
"DRAMA" ~ SPK IN SOUTH SIDE PP NORTH OF DEER, ARTS COUNCIL HANGAR, (NASH TBM)	
"TBM" ~ SPK IN BIRCH 2m NE FROM STOP SIGN 2ND & "D" STREETS, (NASH TBM)	
(108.9570)	
END OF LOOP	

TALKEETNA
STA + H - NAVD '29 ELEV
ADJ.
BEGIN Level Loop

G38	1.9582	110.7577	105.1504	108.7995
	1.6469	110.7323	1.6723	109.0854
"SC"	1.6353	111.0951	1.2725	105.8121
				109.4598
"TAT"	1.7323	111.1320	1.6954	105.7509
				109.3997
	2.0164	111.9171	1.2313	
				109.9007
	1.8638	112.7789	1.0020	
				110.9151
	1.6666	113.0295	1.4160	
				111.3629
	1.6816	113.5013	1.2098	
				111.8197

3/05/01 Bk. 2 S2
SAME CREW MN

"SC" ~ TOP OF METAL LID
TO SECTION CORNER MON.
@ 2ND & "G" ST.

"TAT" ~ PK IN E 2ND ST. NEAR TAT
DRAWING

		TALKEETNA		NAVD '29 ADJ.	ELEV
STA	+	HT	-		
<113.5013>					
"304"	1.7456	113.4883	1.7586	108.0953	111.7427
"	1.8850	113.4844	1.8889		111.5994
"	1.2301	113.0501	1.6644		111.8200
"	1.3388	112.7016	1.6873		111.3628
"	0.9968	111.9109	1.7875		110.9141
"	1.1906	111.0921	2.0094		109.9015
"TAT"	1.7761	111.1764	1.6918	105.7509	109.4003
"SC"	1.1456	110.6083	1.7137	105.8121	109.4627

3/05/01		BK. 2	53
		SAME CREW	MP
"304" ~ PHOTO CONTROL POINT - PK ON NELY CORNER ASPHALT DOT M/O BUILDING AT TALKEETNA AIRPORT			
" " " " OLD SPK. IN BASE OF 25cm d: BIRCH NEAR SWLY CORNER M/O PAD ~ TBM FOR 1996 AIRPORT IMPROV.			

TALKEETNA
STA + HI - NAVD'29 ELEV
ADD.

<110.6083>

1.5433 110.7830 1.3686 109.2397

G38 1.9801 105.1504 108.8029

$\sum^+ = 27.0530$ $\sum^- = 27.0496$

EC = 0.0034

BK. 2 54
3/05/01 SAME CREW MN

(108.7995)

~END OF DAY~

STA	+	TALKEETNA	-	NAVO '29 ADJ.	ELEV
<u>BEGIN DAY - BEGIN LOOP</u>					
BM	1.4954			129.7153	133.3573
2001-10	1.4376	134.8527			
	1.0801		2.0509		
	1.1106	133.8819	2.0694		132.8018
	1.4916		1.9042		
	1.3418	133.4693	1.1818		131.9777
			1.6637		
TP 40	1.5048	133.3104	1.4936	128.1626	131.8056
TBM					
TP 41	1.3202	133.1510	1.4796	128.1890	131.8308
	0.7969	131.9935	1.9544		131.1966
	0.9678				
TP 42	0.9670	130.8549	2.1064	126.2457	129.8871
	1.4682		1.8794		
	1.4878	130.4437	1.8920		128.9755
			1.7756		
TP 43	1.4902	130.1583	1.7873	125.0258	128.6681
TBM					
TP 44	1.1364	129.7925	1.5022	125.0135	128.6561

BOOK 2

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3/06/01

0° 25'

X MURRAY NAPH
Ø Jan Tamm

NOTE: ADJUSTED ELEVATION PER CALCS
MADE 3/7/01 - MN

"TP 43" ~ GPS CONTROL Pt. - REBAR

TALKEETNA					
STA	+	HT	-	NAVD 29 A.DJ	ELEV
					(129.7925)
	1.1415	128.8479	2.0861		127.7064
	1.4342	128.4251	1.8570		126.9909
TP 45	1.2439	127.8903	1.7787	123.0040	126.6464
	1.2621	127.1611	1.9913		125.8990
TBM TP 46	0.8520	126.3921	1.6210	121.8979	125.5401
TP 47	1.2786	125.5176	2.1531	120.5954	124.2390
BM 2000-11					122.6810
			2.8366	119.0376	128.3542

19.8056

29.1885

3/06/09

BK. 2

56

SAME CREW - M.N.

J. Trump

GPS CONTROL PT. ~ REBAR ^{EAST}
E.P. ACROSS FROM SHADE
TREE DR.

BM 2000-11 (TP 48)

TALKEETNA
 STA + H1 - NAVD 29 ELEV
 BEGIN RETURN Loop

Bm		125.5054		119.0376	122.6810
2000-11	2.8244	131.1786			128.3542
		126.4127			124.2386
TP 47	2.1741	132.0859	1.2668	120.5954	129.9118
TBM		127.1701			125.5396
TP 46	1.6305	132.8433	0.8731	121.8979	131.2128
		127.8255			125.8978
	1.9217	133.4987	1.2723		131.5710
		128.6383			126.6457
TP 45	1.9926	134.3115	1.1198	123.0040	132.7189
		129.5451			127.4998
	2.0453	135.2183	1.1385		133.1730
		129.8457			128.1681
	1.6776	135.5189	1.3770		133.8413
		130.1888			128.6549
TBM TP 44	1.5339	135.8620	1.1908	125.0135	134.3281
		1.7550	130.4224		128.6674
TP 43	1.8206	136.0956	1.5214	125.0258	134.3406
		1.9144	130.8887	1.4481	128.9743
	1.9013	136.5619	1.5226		134.6425

(39.3336)

(A.1308)

3/06/01

BK. 52 57

M.N.
 J. TRUMP

(TP 48)

Bm 2000-11 NEAR
 SHADE TREE DR.

STA	+ HI -	NAD 29	ELEV
	TALKEETNA 130.8887 136.5619	ADJ.	
TP 42	2.4713 132.3596 138.0328 133.2397 2.0456 138.9129	1.0004 0.9787 126.2457 1.1655	129.8883 135.5615 131.1941 136.8673
B.M. TP 41	1.5531 133.3842 139.0574	1.4086 128.1890	131.8311 137.5043
TP 40	1.7339 133.5374 139.2106 134.4072 2.0519 140.0804 1.9316 135.1666	1.5807 128.1626 1.1821 1.1722	131.8035 137.4767 132.3553 138.0285 133.2350 138.
B.M. 2001-10		1.8121 129.7153	133.3545
$\sum^+ =$	51.1210 47.231	$\sum^- =$ 50.4307 45.6679	
	51.2981	51.3067	
	$\Sigma \text{err} = .0086$		

		132.3596	1.0004		129.8883
TP 42	2.4713	138.0228	0.9987	126.2457	135.5615
		133.2397			131.1941
	2.0456	138.9129	1.1655		136.8673
TBM		133.3842			131.8311
TP 41	1.5531	139.0994	1.4086	128.1890	139.5043
		133.5374			131.8035
TP 40	1.7339	139.2106	1.5807	128.1626	139.4967
		134.4072			132.3553
	2.0519	140.0804	1.1821		138.0285
					133.2350
	1.9316	135.1666	1.1722		138.

BM				
2001-10		1.8121	129.7153	133.3545

$$\sum^+ = 51.1210 \quad \sum^- = 50.4307$$

51.2981	51.3067
--------------------	--------------------

 ~~$z = 0.0086$~~

BK. 82

3/0⁶/01

$$(133.3573)$$
$$\sum^i = 51,2268$$
$$\Sigma z = 51.2296$$
$$Z_c = 0.0028$$

END OF LOOP

STA	+	TALKEETNA HI	-	NAVJ 29 ADJ.	ELEV
<u>BEGIN LOOP</u>					
BM 2001-11	2.3619	125.0415		119.0376	122.6796
	1.1606	122.9555	3.2466		121.7949
TP 50	0.6339	121.3949	2.1945	117.1196	120.7610
	0.6192	118.7539	3.2602		118.1347
TP 51	1.3002	117.0171	3.0370	112.0759	115.7169
	1.8941	117.7905	1.1207		115.8964
	1.8238	118.5154	1.0989		116.6916
	1.5021	118.4550	1.5625		116.9529
TP 52	1.8274	118.4585	1.8239	112.9908	116.6311
TP 53			2.1366	112.6814	116.3219
<u>BEGIN RETURN LOOP</u>					

3/06/01

BK. 2

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MN
JL TRUMP

"TP 52" GPS CONTROL Pt.
REBAR EAST SIDE

STA	+	TALKEETNA H1	-	NAVD 29 ADJ	ELEV
		<u>BEGIN RETURN LOOP</u>			
TP 53	2.1171	118.4390		112.6814	116.3219
TP 52	1.8391	118.4705	1.8076	112.9908	116.6314
	1.6376	118.5903	1.5178		116.9527
	1.1381	117.8309	1.8975		116.6928
	1.1506	117.0484	1.9331		115.8978
TP 51	3.2761	118.9949	1.3296	112.0759	115.7188
	3.3329	121.4690	0.8588		118.1361
TP 50	3.6409	124.4031	0.7068	117.1196	120.7622
Bm 2001-H	1.7290	125.36	0.7721		123.6310
Bm 2001-11			2.6774	109.0376	122.6826
Σ^+	32.9846	Σ^-	32.9816		
		cc=0.003			

Book 2 60

3/06/01

ММ.

J. Trump

$$(122, 6796)$$

END OF Loop

STA	+	TALKEETNA	-	ELEV
		BEGIN DAM		
		BEGIN LEVEL LOOP		
		(RE-RUN LOOP up 18-21 THIS BOOK)		
B-106	0.9255	124.6265	120.0590	123.701
	1.6242	124.4178	1.8329	122.7936
TP 301	1.7795	124.6211	1.5762 119.1987	122.8416
	1.7650	124.9858	1.4003	123.2208
	1.4912	125.0555	1.4275	123.5583
TBM TP 302	1.8626	125.0429	1.8752 119.5370	123.1803
	1.6579	125.5758	1.1250	123.9179
	1.7491	126.0137	1.3112	124.2646
TP 303	1.8354	126.3637	1.4854 120.8858	124.5283
	1.6133	126.3641	1.6129	124.7508

BK. 2

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3/07/01

83 205
000
0

X MURRAY NASH
X JIM THOMP

STA	+	TALKEETNA	-	NAVD'29	ELEV
		17		ADJ.	
		<126.3641>			
		1,7180	126,5351	1,5470	124.8171
BM					
2001-5	1,6698	126,5249	1,6800	121.2121	124.8551
	BEGIN RETURN LOOP				
	1,5775	126,3953	1,7071		124.8178
	1,5467	126,2971	1,6449		124.7504
TP 303	1,4026	125,9300	1,7697	120.8858	124.5274
	1,3615	125,624	1,6675		124.2625
	1,3075	125,2226	1,7089		123,9151
TP 302	2,0392	125,2168	2,0450	119.5370	123,1776
	1,4025	124,9582	1,6611		123,5557
	1,3002	124,5185	1,7399		123,2183

Bk. 2

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3/07/01

MN
J. TRUMP

STA + TALKEETNA - ELEV

TP 301 1,5241 124.3639 1.6787 119.1987 122.8398

1,7403 124.7191 1.3851 122.9188

B-106 1,0201 120.0590 123.6990

$$\sum^+ = 34.8996 \quad \sum^- = 34.9016$$

$$EC = 0.002$$

~ END OF LOOP ~

3/07/01

BK: 2

M.N.
J. TRUMP

(123.701)

TALKEET VA

STA

+ H7 -

ELEV

BEGIN LEVEL LOOP

NAVD '29

ADJ.

TP 317 1.1193 122.6740 121.4947 121.4947

0.7554 120.4442 2.9852 119.6888

2.0419 118.7082 3.7779 116.6663

3.8020 120.2662 2.2440 116.4642

"GRAVEL" 0.3082 120.2365 0.3379 119.9283

1.4615 117.9258 3.7722 116.4643

3.8659 120.5313 1.2604 116.6654

3.1037 122.7919 0.8431 119.6882

TP 317 1.2913 121.4947 121.4946

 $\Sigma^+ = 16.5179$ $\Sigma^- = 16.5180$

EC = 0.0001

BK. 2

CA

3/9/01

DON MULIKEN
WRENN NASH
JIM TRUMP

NAVD '29 EL AS CALCD 3/8/01

"GPS PT. IN GRAVEL PIT
PT. #6