

CANADA LANDS SURVEYS RECORDS
FB 3 1 1 6 0
Due DEC 10 1969

FIELD NOTES OF SURVEY
of
LOTS 1, 1-1 & 1-2,
in
SEC. 16 & 21, TWP. 18, RGE. 9 W.P.M.,
being PART of
SANDY BAY I.R. No. 5
MANITOBA,
SCHOOL LANDS.

A. MAC TAGGART, M.L.S.
JULY, 1969.

F.B. 31160

CANADA LANDS SURVEYS RECORDS
F.B. 3 11 60

FIELD NOTES OF

SURVEY OF LOT 1, SANDY BAY
I.R. No 5, MANITOBA, FOR SCHOOL
PURPOSES, BEING PART OF THE
N. $\frac{1}{2}$ OF SECTION 16 AND THE S. $\frac{1}{2}$
OF SECTION 21, TOWNSHIP 18,
RANGE 9 WEST OF THE P.M.
AND OF THE INTERVENING ROAD
ALLOWANCE.

Surveyed by ALEXANDER MAC TAGGART, M.L.S.

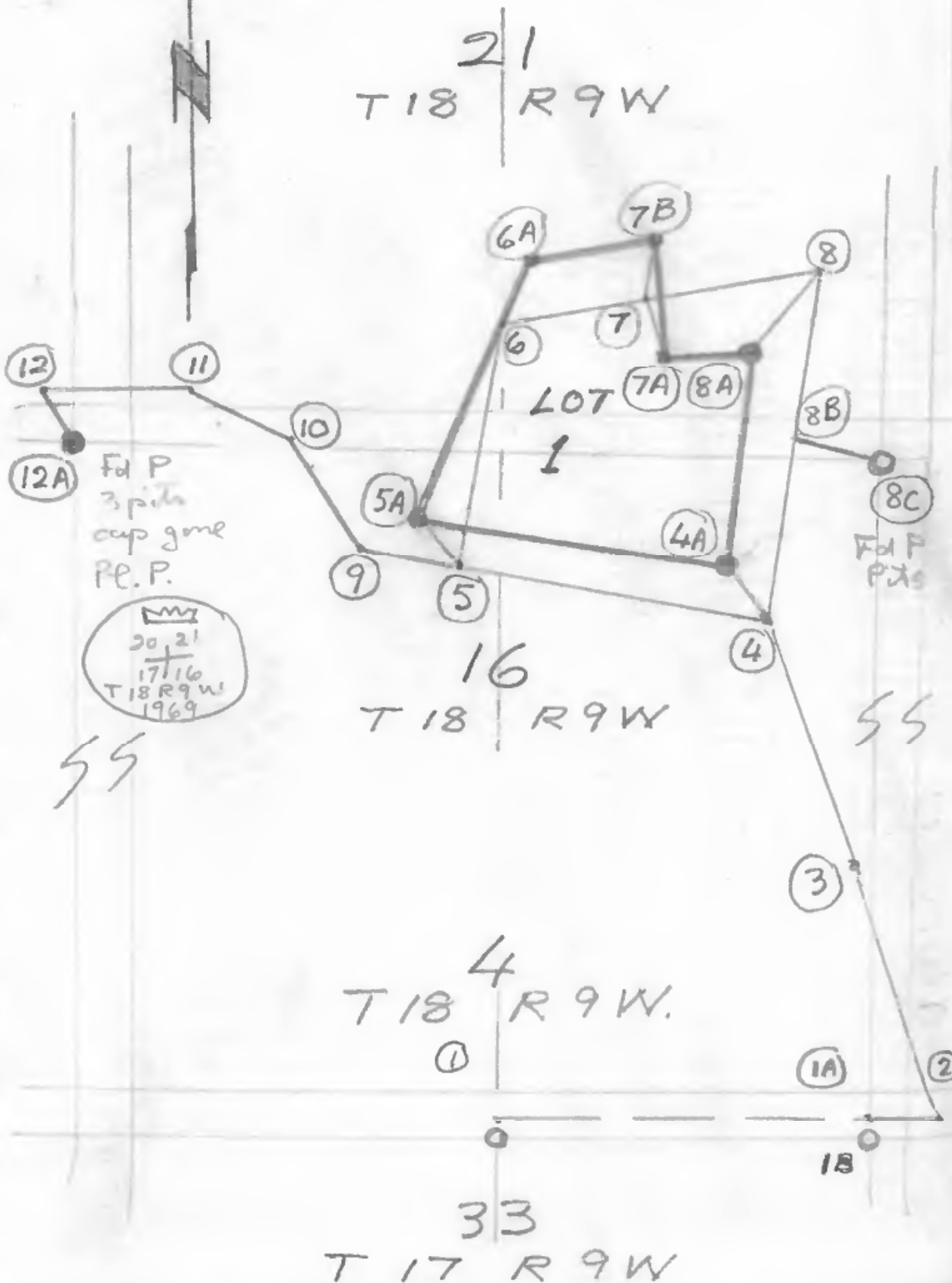
Commenced 4th July Ended 7th July
and 19th July
19 69.

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DIAGRAM OF WORKING LINES.

Not To scale



SCHOOL LAND

+55°

SURVEY

SANDY BAY I.R. 5, MAN.

4

DATE

4 July 69

OBSERVER

AMT.

B.L. & D.H.

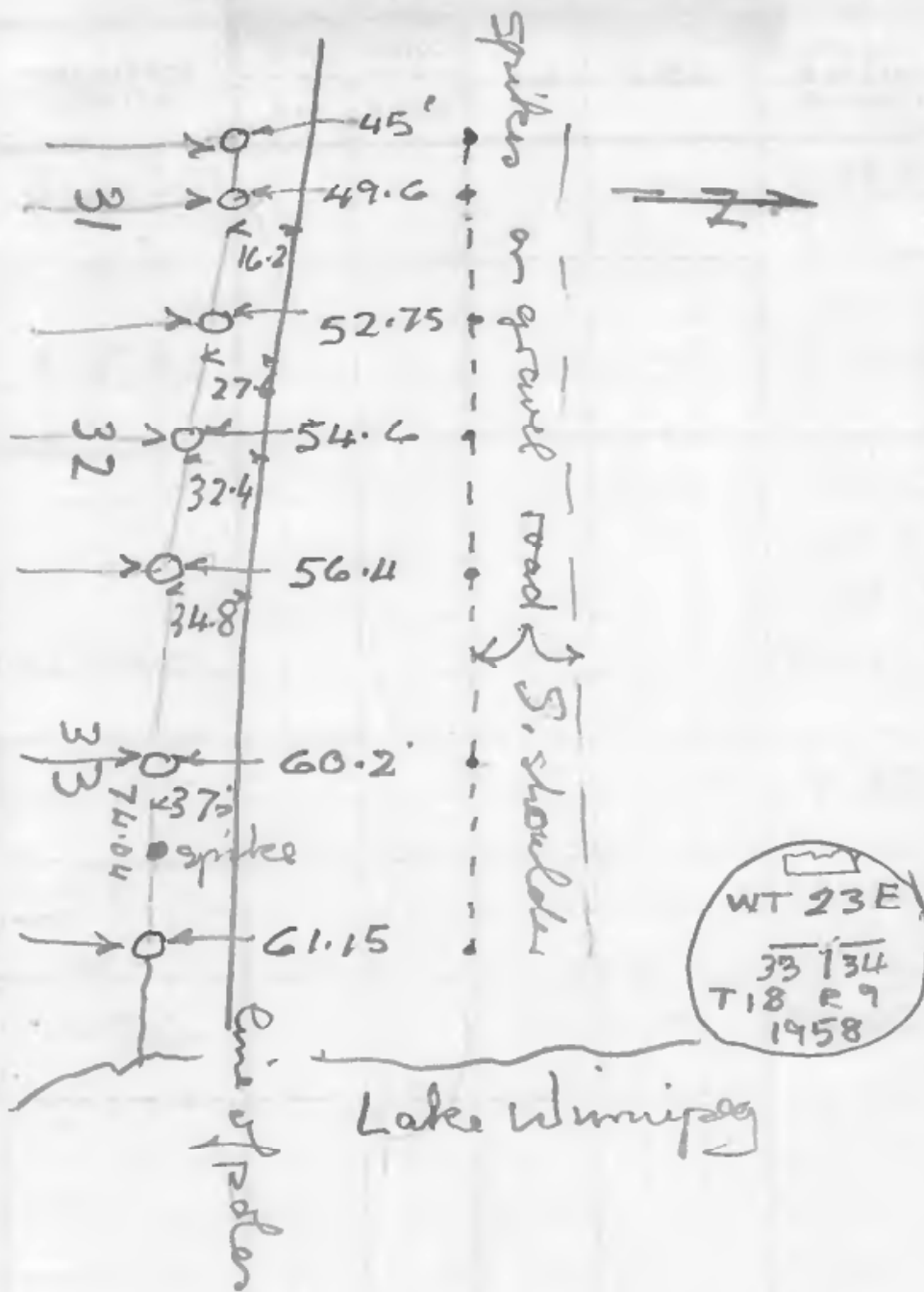
PAGE

BOOK

TAPE

D62-120

STATION	UNCORRECTED DISTANCE	SLOPE	SAG	CORRECTIONS		CORRECTED DISTANCE
				SLOPE	SAG	
NE ³⁶⁻¹⁸ _{-10 W}		spike				Fd P
- ³¹⁻¹⁸ _{1/4 N -9 W}	2621.5	spike				Fd. P
- NE 31	2641.35	spike				Fd P
- ^{1/4} N 32	2740.3	spike				Fd P
- NE 32	2639.35	spike				Fd P
- ^{1/4} N 33 WT 1 E	2673.0	spike				Fd P
- NE 33 WT 23 E	1188.0	spike				Fd P. Com.
³³⁻ ^{1/4} N 17-9W		spike				Fd MGSP in C
- NE ³³⁻ _{17-9W}	2633.4	spike				Fd MGSP in C
³⁸ ^{1/4} N ¹⁸ _{9W}	0.00					
Traverse Tie N. Bdy	74.04	spike on line to P. Com. at NE 33 WT 23 E.				



SURVEY

SANDY BAY I.R.S. MAN

PAGE

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DATE _____

July 4, '69

OBSERVER

A.M.T.

B.L. & D.H.

BOOK

TAPF

TAPE D62-120

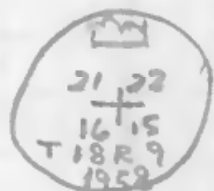
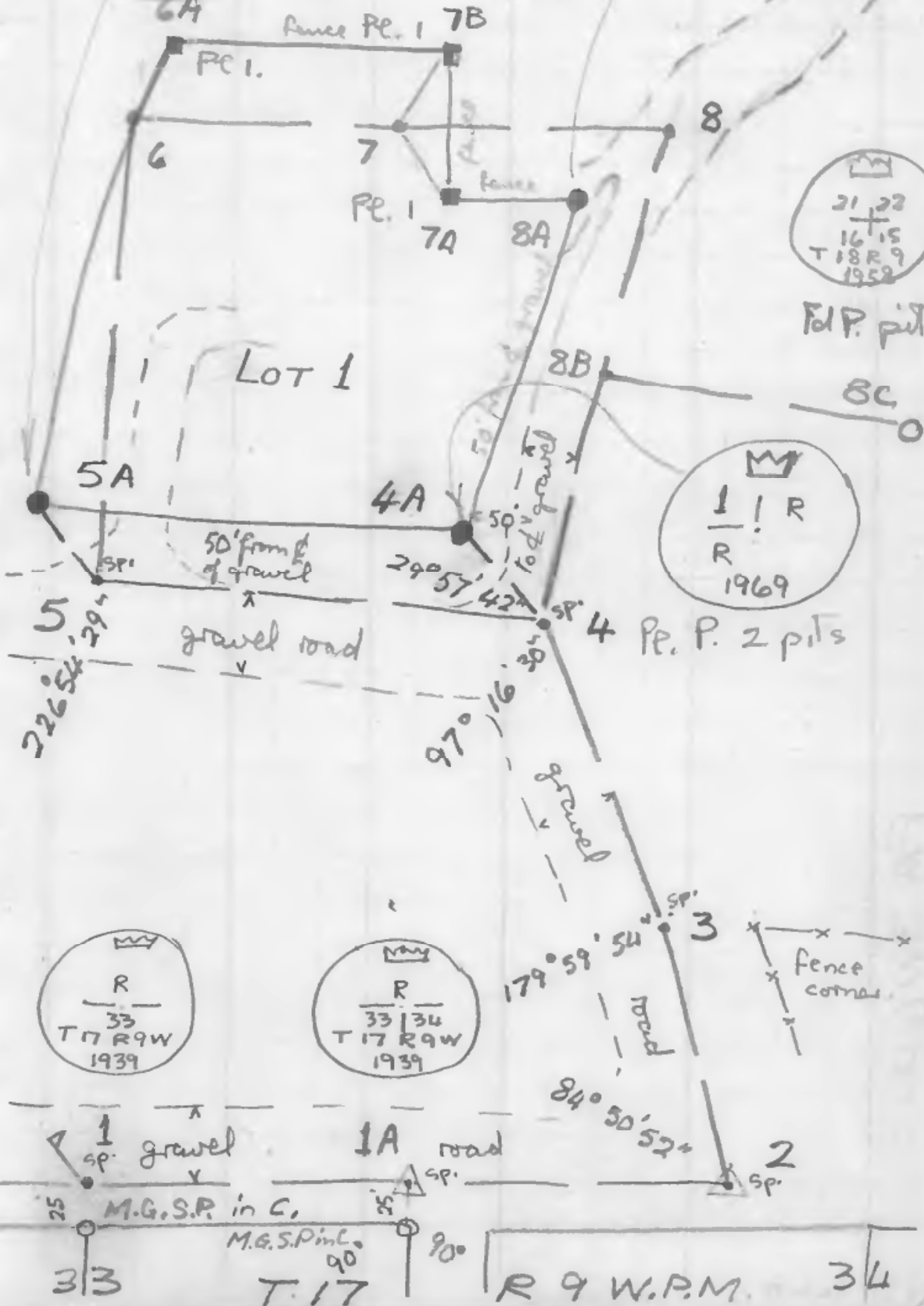
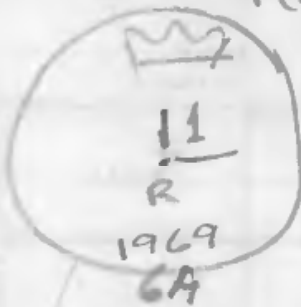
STATION	UNCORRECTED DISTANCE	SLOPE	SAG	CORRECTIONS		CORRECTED DISTANCE
				SLOPE	SAG	
1A-2	654.3	—	—			654.3
2 - 3	3,000 2,372.71	—	—			5,372.7
3 }	3,000 3,000 3,000	— — —	— — —			
4	1,307.35	—	—			10,307.35
4-4A	74.71	—	—			74.71
4-5	2,009.32	—	—			2009.32
5-5A	50.09	—	—			50.09
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FB 31160

Pe. P. 2 pits

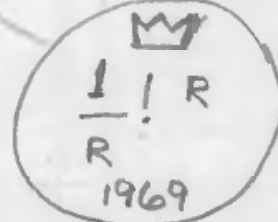
Pe. P. Pits

6

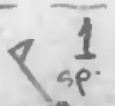
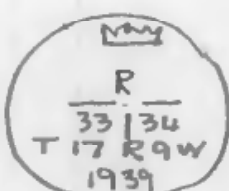
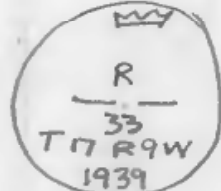


Pe. P. pits

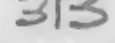
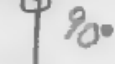
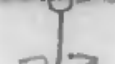
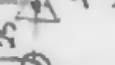
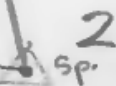
8C



Pe. P. 2 pits



1A road



SANDY BAY IRS, Sunny 60°
SCHOOL LAND

SURVEY

DATE

5 July 69

OBSERVER

AMT, BL, DH.

PAGE

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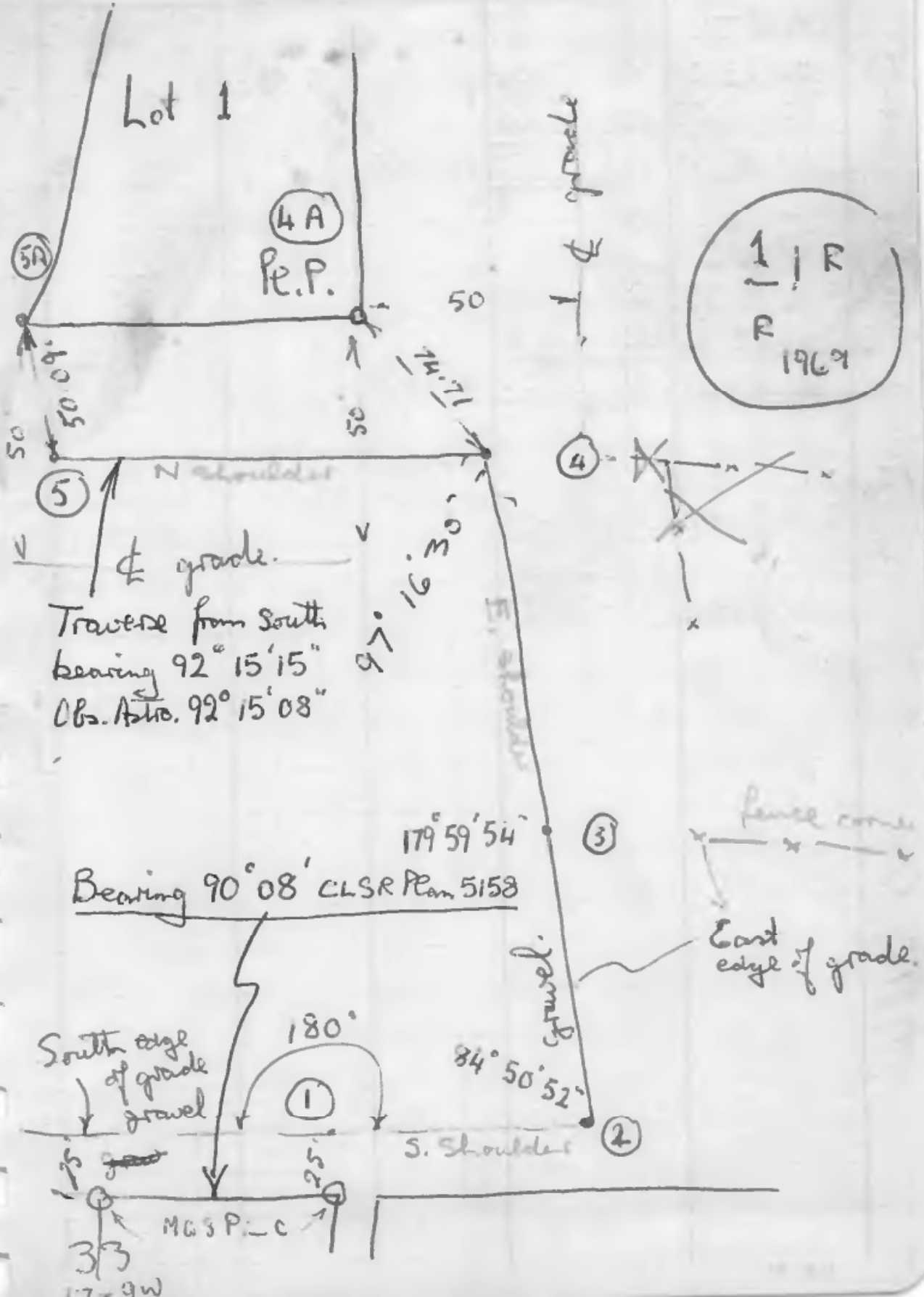
BOOK

TAPE

62-120

STATION	UNCOR- RECTED DISTANCE	SLOPE	SAG	CORRECTIONS		CORRECTED DISTANCE
				SLOPE	SAG	
4-8B	495.23	—	—			
8B-8	767.47	—	—			
8-8A	124.43	—	—			
8-7	1104.84	—	—			
7-6	769.41	—	—			
6-5	947.32	—	—			
7-7A	82.60	—	—			
7-7B	49.64	—	—			
6-6A	50.83	—	—			
8B-8C	757.95					757.95
8C	0					
	230 cut fence	—	—			
	299.6	—	—			
	102.23	—	102		02	
	356.25					
8B	758.08				02	758.06
						Mean 758.0

FB 31160



SANDY BAY IR 5.44 AN
SCHOOL LAND

SURVEY

DATE

5 July 69

OBSERVER

B. L

PAGE

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BOOK

TRANSIT

D 60 51

STA.	H.C.R.		MEAN	ADJ.	FINAL
	FORWARD	REVERSE			
7A	AQ7				
6	00 03 28	90 07 56			
	93 07 27	183 11 48			
	93 03 59	93 03 52	93 03 55		
6	AQ7				
	93 07 27	183 11 48			
7B	190 55 54	281 00 10			
	97 48 27	97 48 22	97 48 25		
	7 5				
4	0 03 52	90-04-21			
9	180-24-21	270-24-51			
	180-20-29	180-20-30			

FB 31160

SCHOOL LAND
 SURVEY SANDY BAY I.R. 5, MAN
 DATE 4 July '69 OBSERVER B. LINTON

PAGE 16
 BOOK
 TRANSIT D 60-61

STA.	H.C.R.		MEAN	ADJ.	FINAL
	FORWARD	REVERSE			
	$\pi @ 2$				
1	00-00-31	90-01-26			
3	84-51-21	174-52-19			
	84 50 50	84 50 53	84 50 52		
	$\pi @ 3$				
2	00-01-22	90-01-13			
4	180-01-20	270-01-03			
	179-59-58	179-59-50	179-59-54		
	$\pi @ 4$				
3	00-00-30	180-07-07			
5	97-17-03	277-23-33			
	97-16-33	97-16-26	97-16-30		
	$\pi @ 4$				
5	90-00-32	270-00-30			
4 A	119-58-25	299-58-02			
	29-57-53	29-57-32	29-57-42		
	$\pi @ 5$				
4	00-03-51	90-08-03			
5A	226-58-24	317-02-27			
	226-54-33	226-54-24	226-54-29		
	$\pi @ 1A$				
1-2	180° mean production.				

SCHOOL LAND
SURVEY

SANDY BAY IR NOS MAN

PAGE

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DATE

5-07-69

OBSERVER

B. LINTON

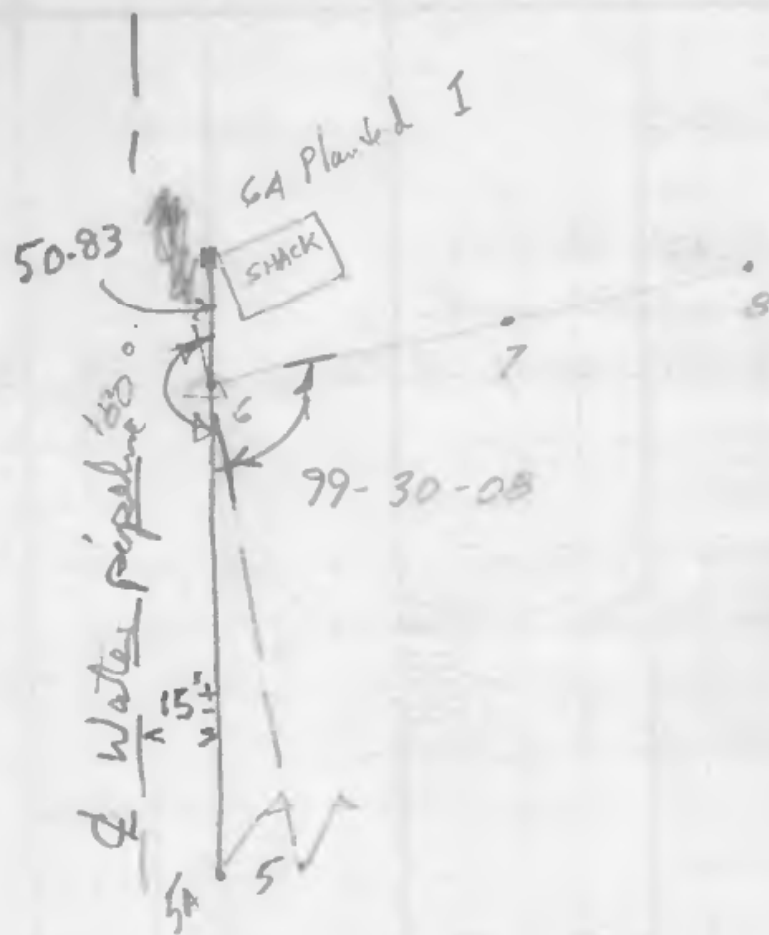
BOOK

TRANSIT

060-61

STA.	H.C.R.		MEAN	ADJ.	FINAL
	FORWARD	REVERSE			
T @ 6					
5	00-00-20	90-00-27			
8	260-30-11	350-30-21			
	260-29-51	260 29-54	260-29-52		
STA		7 1/8	on line		
T @ 8					
6	00-03-45	90-03-12			
4	272-15-33	02-14-54			
	272-11-48	272-11-42	272-11-45		
4	02-14-54	270-04-12			
8A	31-39-21	299-38-23			
	29-24-27	29-34-11			
4	270-04-18	180-04-57			
8A	299-38-31	209-39-33			
	29-34-13	29-34-36	29-34-24		29 34 25

6-6A 50.83'



8-8A 124.43'
FROM, 8A
131 WEST
TO FENCE
LINE

SCHOOL LAND
SANDY BAY IR No 5 MAN

SURVEY

DATE

5-07-69

OBSERVER

B. LINTON

PAGE

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BOOK

TRANSIT

060-61

STA.	H.C.R.		MEAN	ADJ.	FINAL
	FORWARD	REVERSE			
	T @ 5				
4	00-07-49	90-03-31			
6	270-14-54	00-10-38			
	270-07-05	270-07-07	270-07-06	-06"	270 07'
	T @ 4				
8	00-00-56	90-03-17			
5	277-12-24	367-14-52	824822		
	277-11-28	35			
	82-48-32	277-11-33			
		82-48-25			
	T @ BB				
4	00-02-42	90-07-56			
BC	274-57-10	365-02-20			
	274-54-28	274-54-24	274-54-26		
	T				

FB 31160



87-48-15	20
82-48-28	30
89-52-54	00
99-30-08	10
359 59-45	

SURVEY

SCHOOL LAND
SANDY BAY IRS MAN

PAGE

12

DATE

6-07-60

OBSERVER

B. LINTON

BOOK

TRANSIT

D-60-61

STA.	H.C.R.		MEAN	ADJ.	FINAL
	FORWARD	REVERSE			
$\pi @ 9$					
5	00-00-40	90-07-08			
10	212-05-00	302-11-26			
	212-04-20	212-04-18	212-04-19		
$\pi @ 10$					
9	00-01-39				
11					
$\pi @ 10$					
9	00-01-35	90-03-10			
10	149°33'01"	239°34'30"			
	149°31'26"	149°31'20"	149°31'25"		
$\pi @ 11$					
10	00-04-42	90-03-26			
12	175-14-59				
12	175-13-59	265-12-39			
	175-09-17	175-09-13	175-09-15		

FB 31/160

FB 31/60

SCHOOL LAND

55° Showers.

SURVEY

SANDY BAY IRS

A.M.T.

PAGE

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DATE

6 July 69

OBSERVER

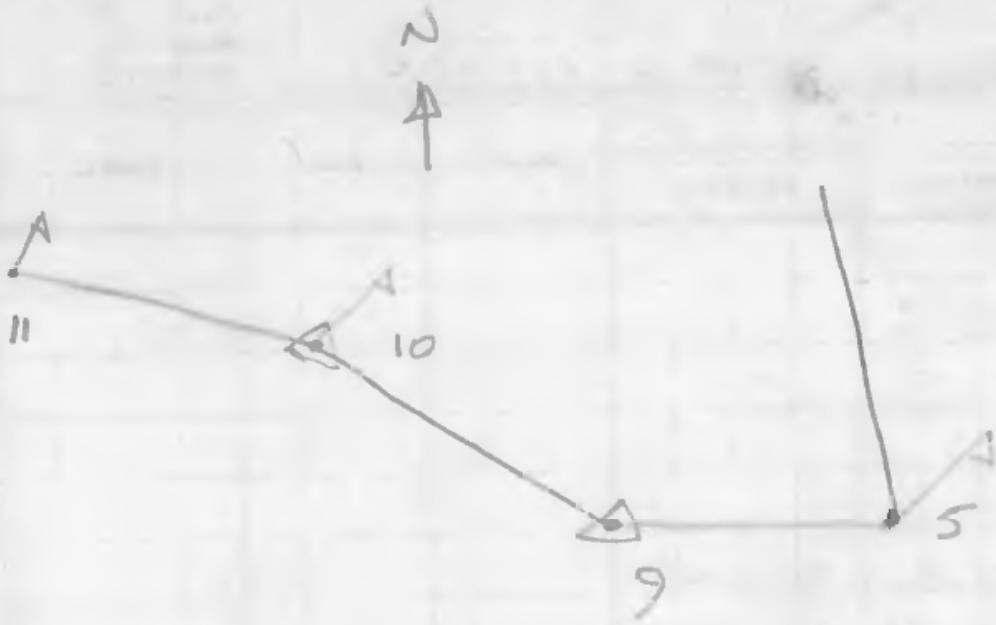
B.L. D.H.

BOOK

TAPE D62-120

STATION	UNCORRECTED DISTANCE	SLOPE	SAG +65°	CORRECTIONS		mean CORRECTED DISTANCE
				SLOPE	SAG	
5-9	647.8	—	—	55°	}	647.86
9-10	970.75	—	—			970.81
10-11	733.89	—	—			733.98
11-12	519.21	—	—			519.26
12-12A	189.12	—	—			189.14
5-9	647.89	—	—			
9-10	970.81	—	—			
10-11	734.03	—	—			
11-12	519.28	—	—			
12-12A	189.15	—	—			

IRS 31160



SCHOOL LAND

SURVEY

SANDY CAY IR 5

PAGE

14

DATE

06-07-69

OBSERVER

B LINTON


BOOK

TRANSIT

D60-61

STA.	H.C.R.		MEAN	ADJ.	FINAL
	FORWARD	REVERSE			
	T @ 12				
11	00-08-14	90-04-03			
12A	84-23-02	174-18-47			
	84-14-48	84-14-44	84-14-46		

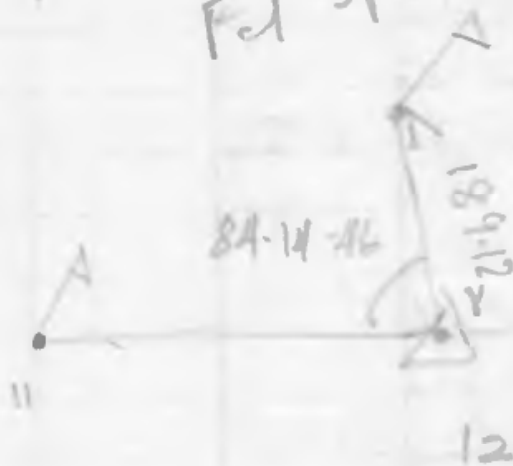
Feb 3 1960


 20 | 21
 17 | 16
 T 18 R 9 W
 1969

P. (copy missing)

Pl. P.

12 A



12

FEB 31160

SURVEY

DATE

2001 LAND
Sandy Bay IR.

OBSERVER

Showers

15.

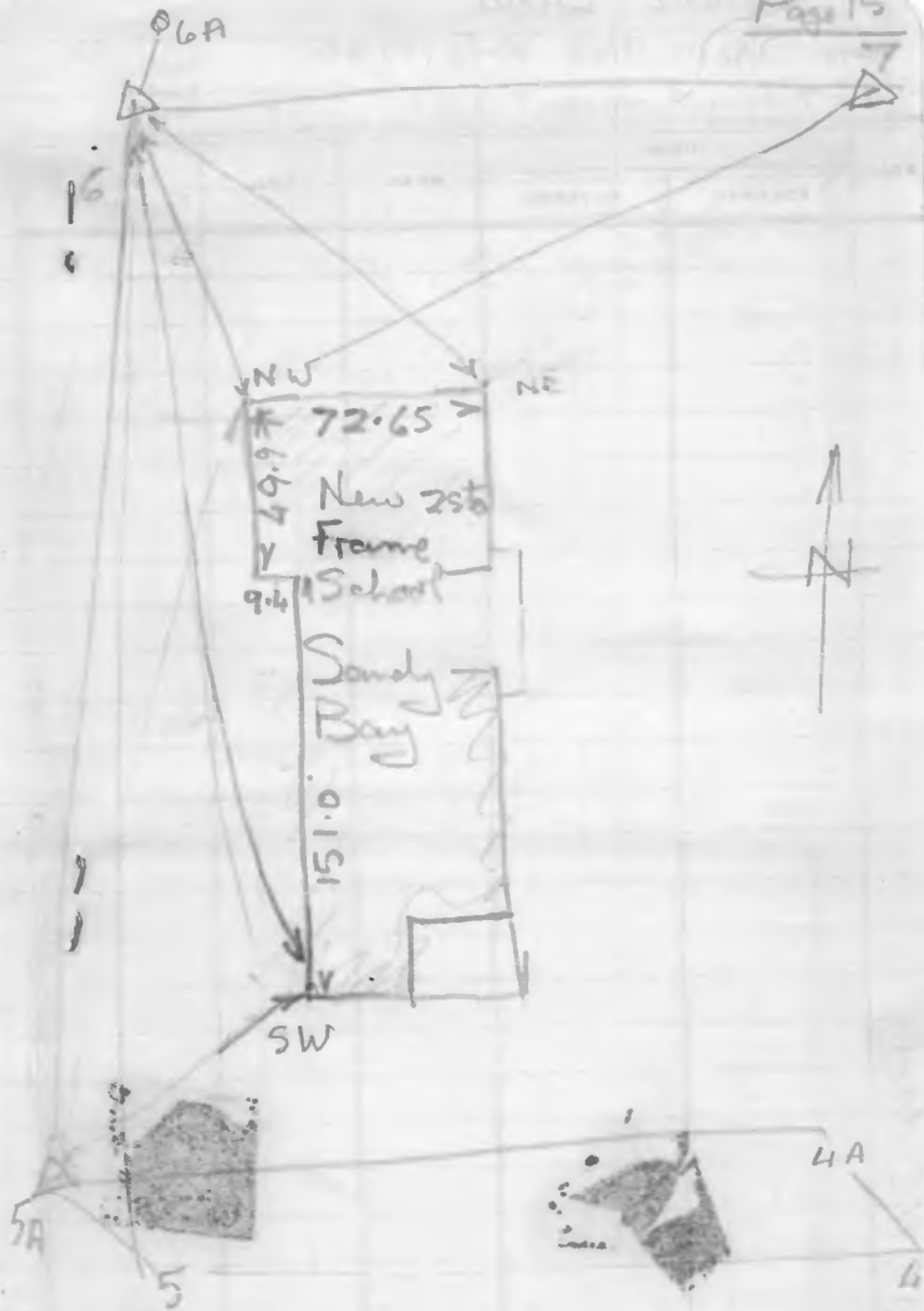
PAGE

BOOK

TRANSIT

460 61

STA.	H.C.R.		MEAN	ADJ.	FINAL
	FORWARD	REVERSE			
7 St.					
NW 6	326 13 53	146 13 45			
	01 51 53	181 51 35			
	35 38 00	35 37 50	35 37 55		
5A Stet					
6	126 32 35	306 32 36			
SW 6	168 59 10	348 59 12			
	42 26 35	42 26 36	42 26 35		
5A Stet					
6	126 32 35	306 32 36			
NW 6	154 47 45	334 47 44			
	28 15 08	28 15 08	28 15 08		
7 Stet 6					
NE 7	00 02 33	90 06 49			
	48 50 57	138 55 09			
	48 48 24	48 48 16	48 48 20		
7 Stet 6					
NW 7	00 02 33	90 06 49			
	55 45 53	145 49 58			
	55 43 20	55 43 09	55 43 15		
7 Stet 6					
SW 7	00 02 33	90 06 49			
	65 36 21	155 40 30			
	65 33 48	65 33 41	65 33 45		



SCHOOL LAND
 SURVEY SANDY BAY IR. 5 MAN
 DATE 7 July 69 OBSERVER AMT.

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 TRANSIT

STA.



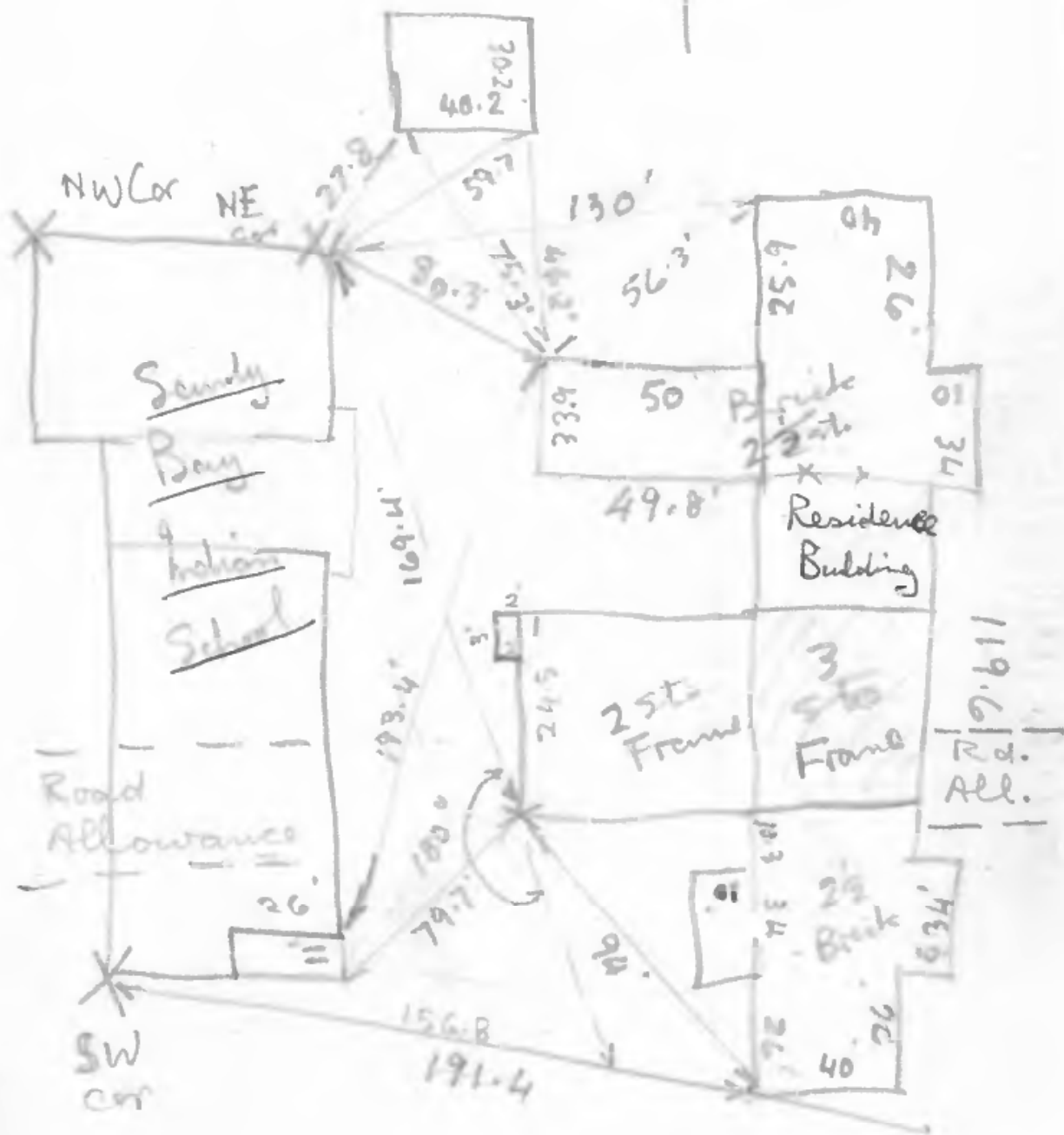
View SE'ly from Station 6



View NE'ly from Station 5A

FB 31160

16



POLE STAR OBSERVATION FOR AZIMUTH

Survey Operation... SCHOOL LAND SANDY BAY IR 5 MAN

Date 5 July '69 Observer A MacTaggart Instrument AMY.

Observation Point Stat. 5 Lat. 48° 40' Long. 50° 33'

Reference Object Stat. 4 Daylight

FACE	H.C.R. on R.O.	H.C.R. on POLARIS	COE WATCH TIME
R	0 00 02	268 11 20	9 58 34
	180 00 02	88 14 14	10 02 45
MEAN	0 00 02	268 12 47	9 57 54.5
Watch Correction			Nil
Local Sidereal Time			15 20 03.4

Zo	15 hr 20 m	+ 17.42
	20.05 m	+ 0.01
Zo		+ 17.43
ΔZ		+ 0.20
$(Z_o + \Delta Z)$		+ 17.63

Local Sidereal Time less 6 hours

9 20 03.4

Tabulated Zo	9 hr 20	- 49.40
	05 m	+ 0.04
$\Delta h = Z_o + \Delta Z$		- 49.36
Latitude	50	32.84
$h = \text{latitude} + \Delta h$	49	43.48
Secant h		1.5470
$Z = (Z_o + \Delta Z) \text{ secant } h$		+ 27° 16.2'

Azimuth of Polaris (Z)	0 27 16.2
Convergence for 2640 feet	+ 32
Bearing of Polaris	0 27 48
H.C.R. on Polaris	268 12 47
Correction (Bearing - H.C.R.)	92 15 01
H.C.R. on Reference Object	0 00 02
Bearing of Reference Object	92 14 59
Mean of 2 observations	92 15 08

POLE STAR OBSERVATION FOR AZIMUTH

Survey Operation.....SCHOOL LAND SANDY BAY IR. 5. MAN.....
Date.....5 July 69.....Observer.....A MacLaggan.....Instrument.....A.M.T.....
Observation Point.....Sta. 5.....Lat. 48° 40'.....Long. 50° 33'.....
Reference Object.....Sta. 4.....Daylight.....

FACE	H.C.R. on R.O.	H.C.R. on POLARIS	WATCH TIME
L	90 00 07	358 20 10	10 21 18
R	269 59 51	178 21 31	10 24 51
MEAN	89 59 59	358 20 50	10 23 04.5
Watch Correction			Nd.
Local Sidereal Time			15 45 17.6

Zo.....	15 ^h 40 ^m	+ 21.66
	5.3 ^m	+ 1.09
Zo.....		+ 22.75
ΔZ.....		+ 0.24
(Zo + ΔZ).....		+ 22.99

Local Sidereal Time less 6 hours.....9 45 17.6

Tabulated Zo.....	9.40	- 47.69
	5.3	+ 0.53
Δh = Zo + ΔZ.....		- 47.16
Latitude.....	50	32.84
h = latitude + Δh.....	49	45.68
Secant h.....		1.5470
Z = (Zo + ΔZ) secant h.....		35 35.4

Azimuth of Polaris (Z).....	0° 35 35
Convergence for $\frac{1}{2}$ mile feet.....	+ 32
Bearing of Polaris.....	0° 36 07
H.C.R. on Polaris.....	358 20 50
Correction (Bearing - H.C.R.).....	2 15 17
H.C.R. on Reference Object.....	89 59 59
Bearing of Reference Object.....	92 15 16

Mean of.....observations.....92 15 08

SECTION 21

SANDY

BAY

Graded & gravelled to N. Bdy 1/2 S.

Water line trench

UNIMPROVED ROAD

ROAD

ALLOWANCE

ALLOWANCE

P. Pits found & replaced.

20 | 21
17 | 16
T. 18 R. 9 W
1969

1 | 1
R
1969

1 | 1
R
1969

21 | 22
16 | 15
T. 18 R. 9
1958

INDIAN RESERVE No. 5.

MANITOBA

TOWNSHIP 18

RANGE 9 W.P.M.

SECTION 16

Approx Scale: 1 inch = 500 feet. Survey 4-7 July 1969. A. MacTavish M.L.S.

Rest Office.

Graded and gravelled connects E. City to P.T. H. No. 50.

10 E. Bdy 1/2 S.

50' N. of E

LOT 1

LOT 1

Church 3 Acres

Residence

garage drive

Sandy Bay Indian School

S. Bdy. 50' W. of E

Winding to N. Bdy

Straight. Graded and gravelled from

P. Pits found

UNIMPROVED ROAD

Re: Survey of Lot 1, SANDY BAY INDIAN
RESERVE NO 5, MANITOBA, FOR SCHOOL PURPOSES,
PARTS OF SECS. 16 & 21, TWP. 18, R. 9 W. P. M.
AND PART INTERVENING ROAD ALLOWANCE.

A F F I D A V I T

I, ALEXANDER MAC TAGGART of the CITY
of OTTAWA IN THE PROVINCE OF ONTARIO,
MANITOBA Land Surveyor, make oath
 and say that I have, in my own proper person, according to
~~law and the instructions of the Surveyor General of Canada Lands,~~ *AND.*
 faithfully and correctly executed the survey shown by these field notes
 and accompanying plan; and that the said field notes and plan are
 correct and true to the best of my knowledge and belief.
 SO HELP ME GOD.

A. Mac Taggart, M.L.S.

Sworn before me at OTTAWA
 this 18th day
 of NOVEMBER 1969

Peter Lauve
 D.L.S.