

SHEET 2 OF 2
TORNADO PROJECT SUMMARY SHEET

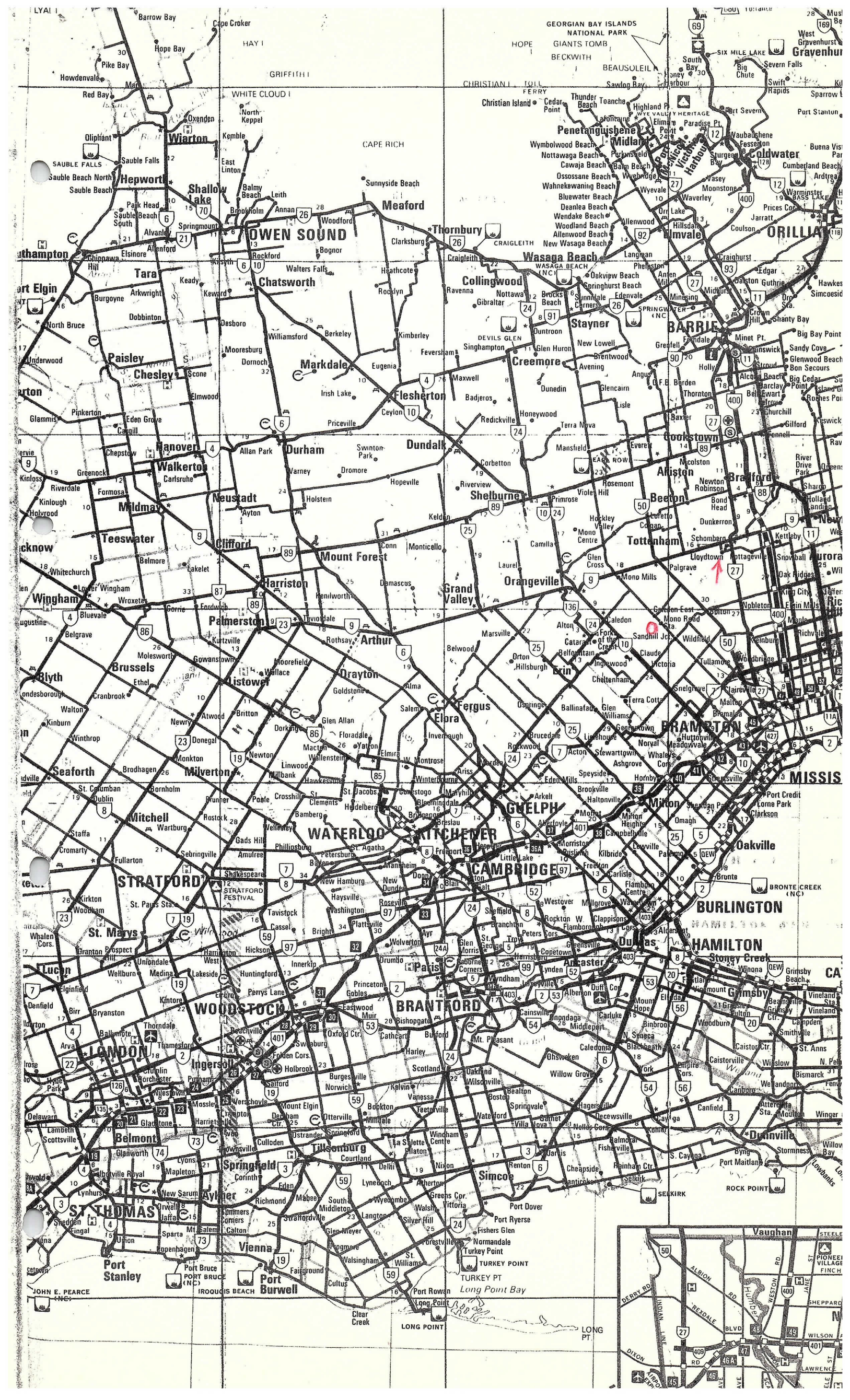
ONT

1. DATE AND TIME TUESDAY AUGUST 15, 1978 ① 1600 EDT ③ 0130 EDT
② 1600 EDT
2. LOCATION OR PATH (attach map) ① COLD CREEK CONSERVATION AREA (S-N) 0977-2
TO VICINITY OF LLOYD TOWN
② VENTY MONO ROAD STN (SSW-NNE) 0978-2
③ SAULT STE MARIE
3. PATH LENGTH ☐ NOT KNOWN ☐ <1mi; ② 1-4mi; ⑤ 5-10mi; ☐ 11-50mi; ☐ LENGTH IF >50mi
4. PATH WIDTH ① 500-600 FT ② 300-400 FT 5. TORNADO PART OF SQUALL LINE? ☐ YES; ☐ NO; ☐ UNKNOWN:
6. ANY UNUSUAL COLORATION? ☐ YES; ☐ NO; ☐ UNKNOWN
7. ANY UNUSUAL SOUND? ☐ YES; ☐ NO; ☐ UNKNOWN
8. IF ANSWER TO 6 OR 7 YES, ELABORATE;
9. LIST ANY ASSOCIATED PHENOMENA ① THUMBNAILED HAIL
(Such as hail, vivid lightning, heavy rain, no rain, etc.) ② 4.5" rain measured in plastic measure mounted on fence. Small hail.
10. TOTAL DAMAGE ESTIMATE \$ 11. TOTAL DEATHS NONE
12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE
14. LIST ALL REFERENCES
① VISITED BY NEWARK & ELMS SAT AUG 19, 1978
② VISITED BY ELMS MON AUG 21, 1978.
KINGSTON WHIS STANDARD, AUG 17, 1978.
TORONTO STAR, AUG 16, 78.
SAULT STE MARIE STAR, AUG 16, 17, 1978.
15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.

1(a) rain too heavy and no reports of funnel.
2(a) no reports.

1(b) Farm equipment and machinery carried or pushed several hundred feet. At the farm of Art Richards (16 1/2 sideway & 11 1/2 con King) a 5 ton forage wagon carried around a silo and deposited on a harvester. At Delmas (17 1/2 & 11 1/2 con King) a steel frame garage 75'x30'x20' pushed 5 or 6 ft off its foundation and collapsed onto a car. Barn roofing ripped off. Very few trees in the area but some broken trees noted.

2(b) Heavy farm equipment overturned. Barns damaged. Trees broken, and uprooted. Glass broken outwards and a board (1"x2"x4') pierced through roof.



Mono Rd. Stn. - Sandhill

WORKSHEET

IDT0 0697825

① ORIGIN x 17590750
 y 4854800

C30
⑤ Standard Error S_x

② LIFT=OFF x_1 17595400
 y_1 4853400

C50
⑥ Standard Error S_y

③ $(x_1 - x) = 4650$

④ $(y - y_1) = 1400$

⑦ DAMAGE LENGTH

$L = [(x_1 - x)^2 + (y - y_1)^2]^{1/2}$ ⑧ $\alpha = \tan^{-1} \frac{|y - y_1|}{|x - x_1|}$

③ + ④ $\rightarrow r, \theta = 4856 \text{ m}$

$x \leftrightarrow y = 17^\circ$

⑨ Standard Error $S_L = (S_x^2 + S_y^2)^{1/2}$

⑤ + ⑥ $\rightarrow r, \theta = 58 \text{ m C}$

⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

⑦ + ⑨ $\rightarrow r, \theta$
 $x \leftrightarrow y = 1^\circ$

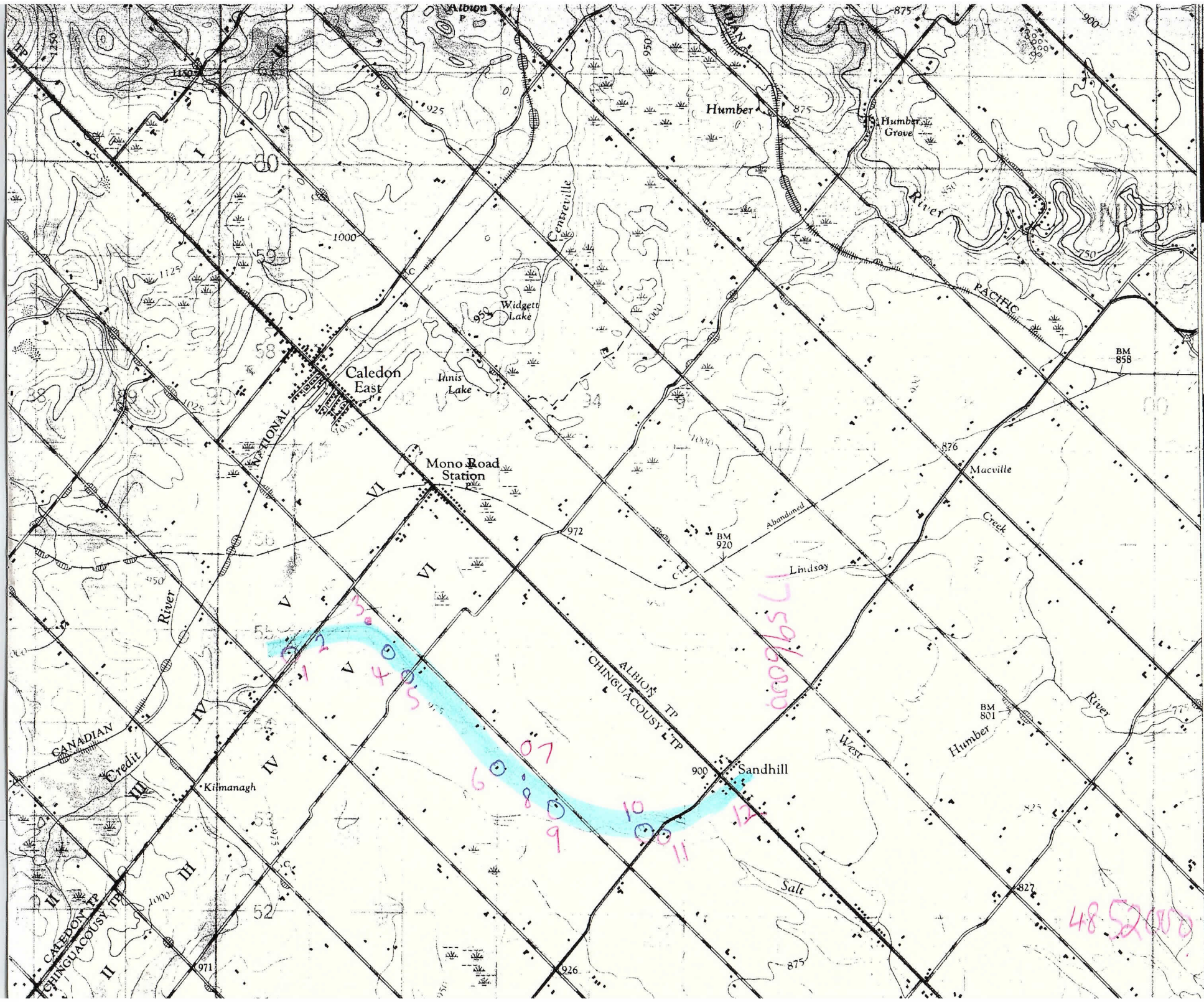
NE Quad $\phi = 90 - \alpha$

NW Quad $\phi = 270 + \alpha$

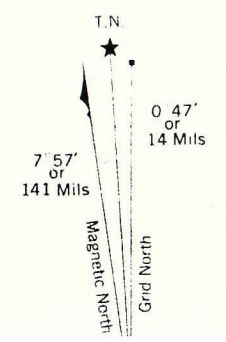
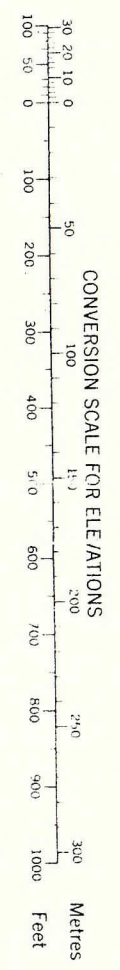
SW Quad $\phi = 270 - \alpha$

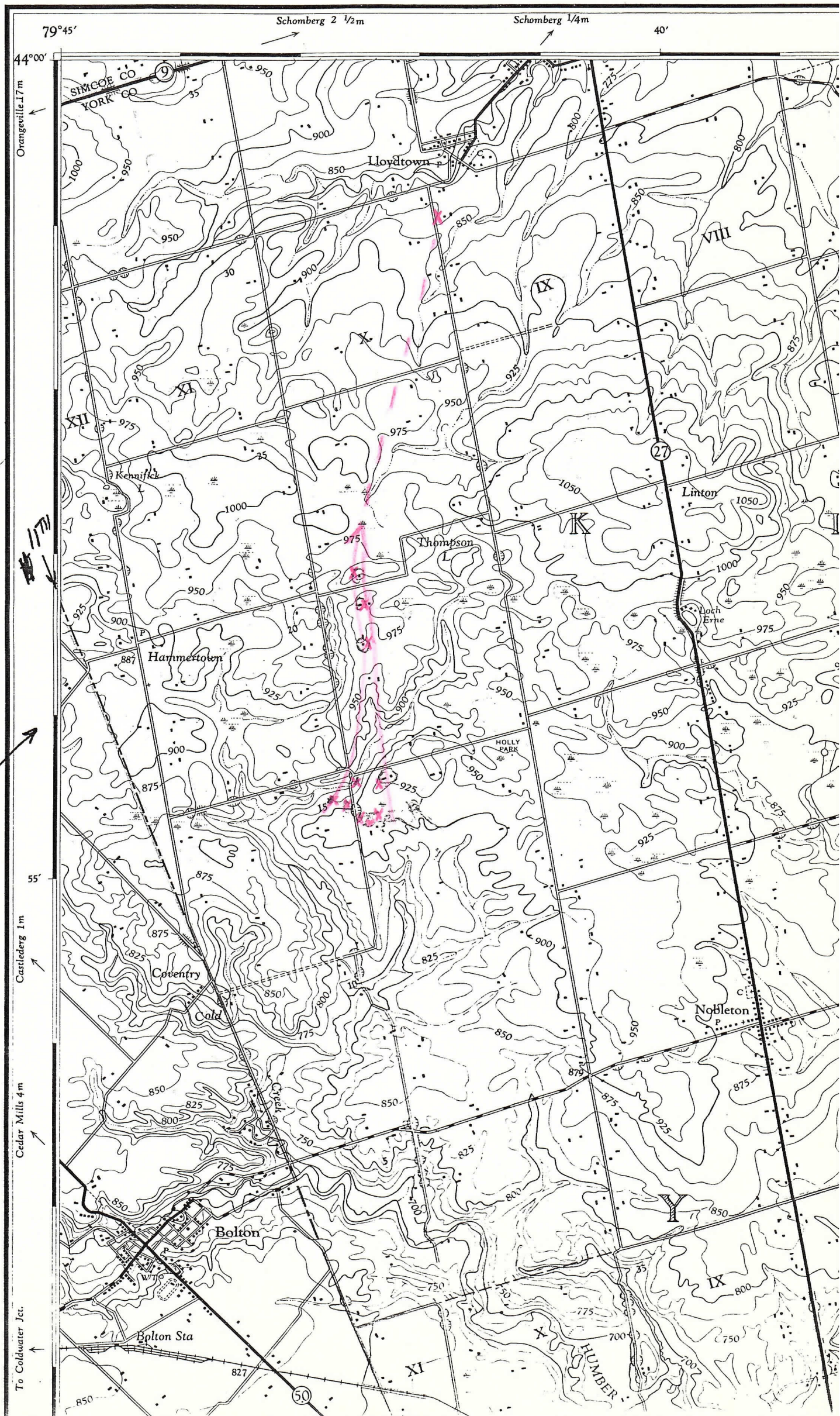
SE Quad $\phi = 90 + \alpha$

⑪ $\phi = 287^\circ$



61
Bolton 1m
To Toronto
Wildfield 2m
50

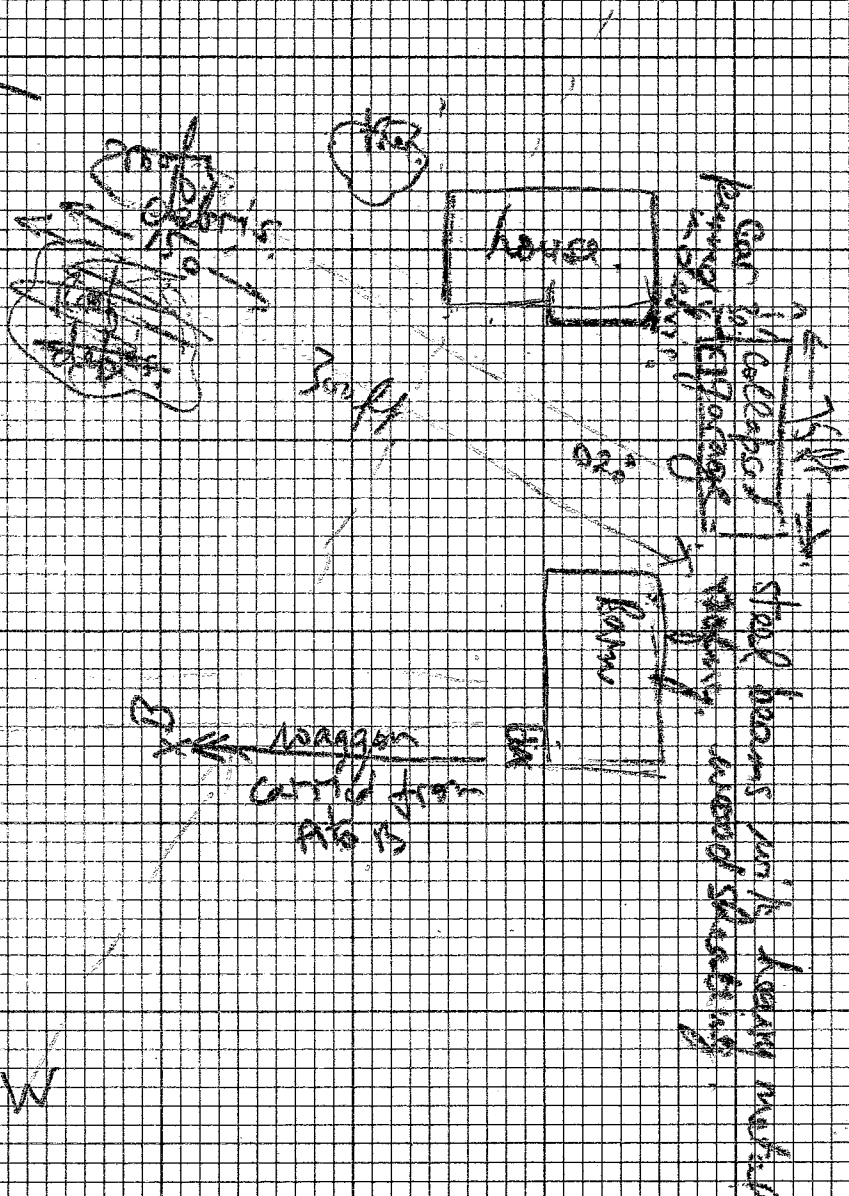




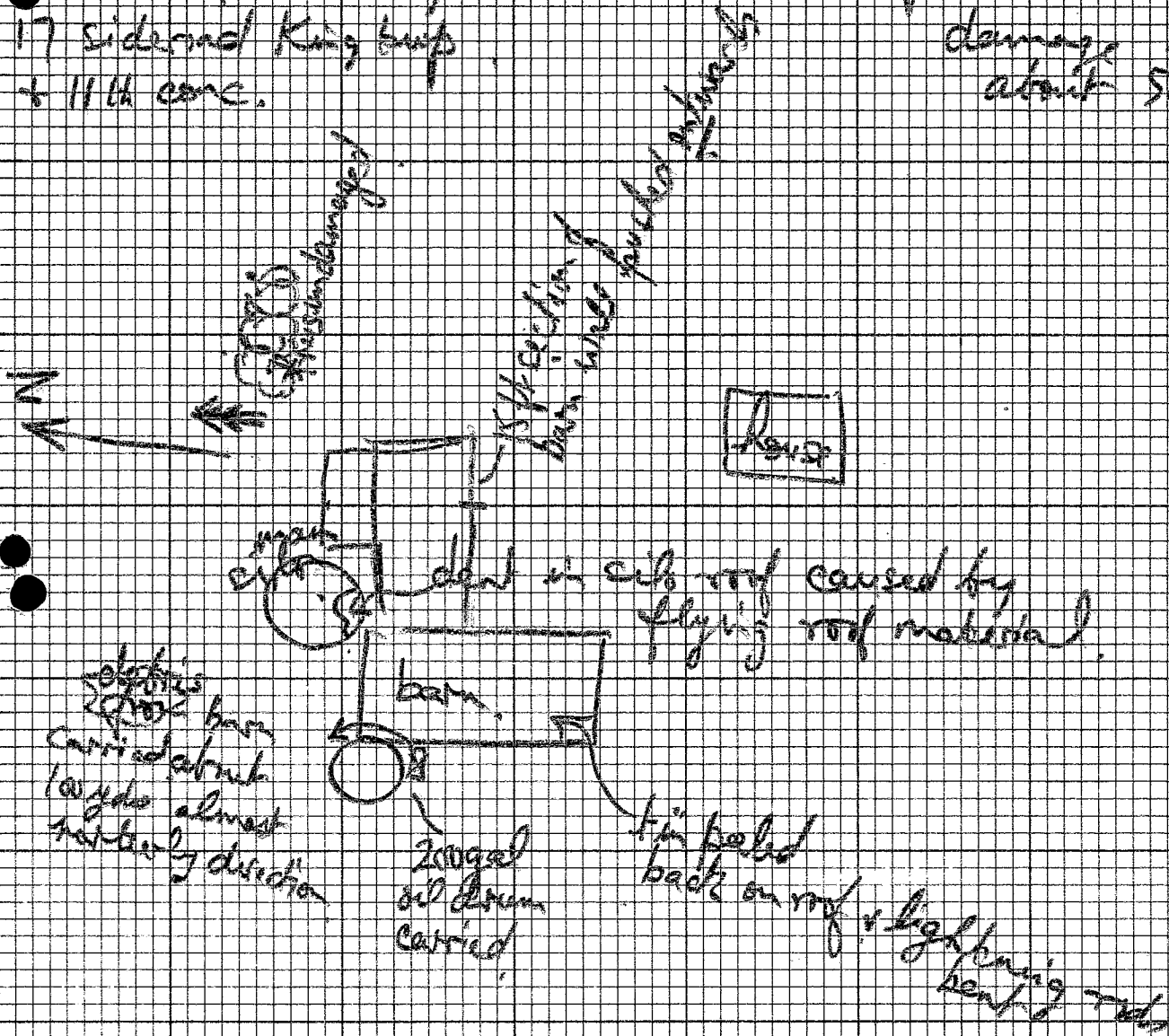
Storm date: used Aug 16, 1978. Vicinity Hammettown
Time: 4⁰⁰/2. (1600 GMT)

Delmas. 17th sidemad King trap (York Region)
and 11th conc.

near Delmas outside in yard at time of the storm sky
became very black, dry rain then, & thunderous size hail.
The end garage blown over then storm was finished in
a couple of minutes. Garage pushed off its foundation
about 5 ft towards the north.



Time about 4:05 PM
Dirt directly across the road from Delmar.
17 Sideroad King bus
+ 11th conc. damage width
about 500-600 ft.



McGuire next neighbor to the north.

all houses
west neighbor
west neighbor

Ant Richards

Lot 15 one 10
16 1/2 x 11 1/2 cone
2 wood

- 5th. forage wagon carried several yards towards
- feed rack carried about 50 yds } the north