A.

TORNADO PROJECT SUMMARY SHEET

F-0

1. DATE AND TIME MON JULY 24 1950 0915 E.S.T.

2. LOCATION OR PATH (attach map) FROM 260° ON NE. SIDE OF SARNIA TO BRIGHTS GROVE.

0695001

3. PATH LENGTH ☐ NOT KNOWN ☐ <1mi; ☐ 1-4mi; ☒ 5 5-10mi (8K.m.); ☐ 11-50mi; ☐ LENGTH IF>50mi

4. PATH WIDTH ☐ 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; (7) SWIFTNESS OF WIND AND DARKNESS.

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.) ↳ AND SHEETS OF RAIN.

10. TOTAL DAMAGE ESTIMATE $UNKNOWN. 11. TOTAL DEATHS NONE

12. TOTAL INJURED NONE 13. TOTAL HOMELESS NONE.

14. LIST ALL REFERENCES

GLOBE AND MAIL. JULY 25 1950
SARNIA CANADIAN OBSERVER. JULY 24 1950

15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.

(a) TWO WITNESSES SAW "A BLACK CONE OF WIND" COME IN OFF LAKE HURON. ACCOMPANIED BY LIGHTNING.

(b) SWEPT IN OFF LAKE HURON, UPROOTING AND BREAKING TREES.
NOT MUCH PROPERTY DAMAGE TO HOUSES.
ROADS BLOCKED BY FALLEN TREES.
BOATS LIFTED AND BLOWN A CONSIDERABLE DISTANCE ALONG THE SHORE.
THREE LARGE GARAGE DOORS AT THE RESIDENCE OF A.B. JACKSON, WHICH WERE LOCKED, WERE BLOWN OPEN.
STORM LASTED 3 TO 5 MINUTES.
AT LEAST EIGHT SUMMER COTTAGES ON THE LAKE SHORE RD. HAD ENTRANCES BLOCKED BY FALLING TREES.
SEVERAL HOUSES STRUCK BY LIGHTNING.

WORKSHEET 0695001

ORIGIN x 17390200
y 4763300

Standard Error S_x
577 ft

LIFT-OFF x_1 17398700
y_1 4765200

Standard Error S_y
577 ft

$(x_1 - x)$ =
$(y - y_1)$ =

DAMAGE LENGTH

$$L = [(x_1 - x)^2 + (y - y_1)^2]^{1/2}$$
$$= 8710 \text{ m}$$

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

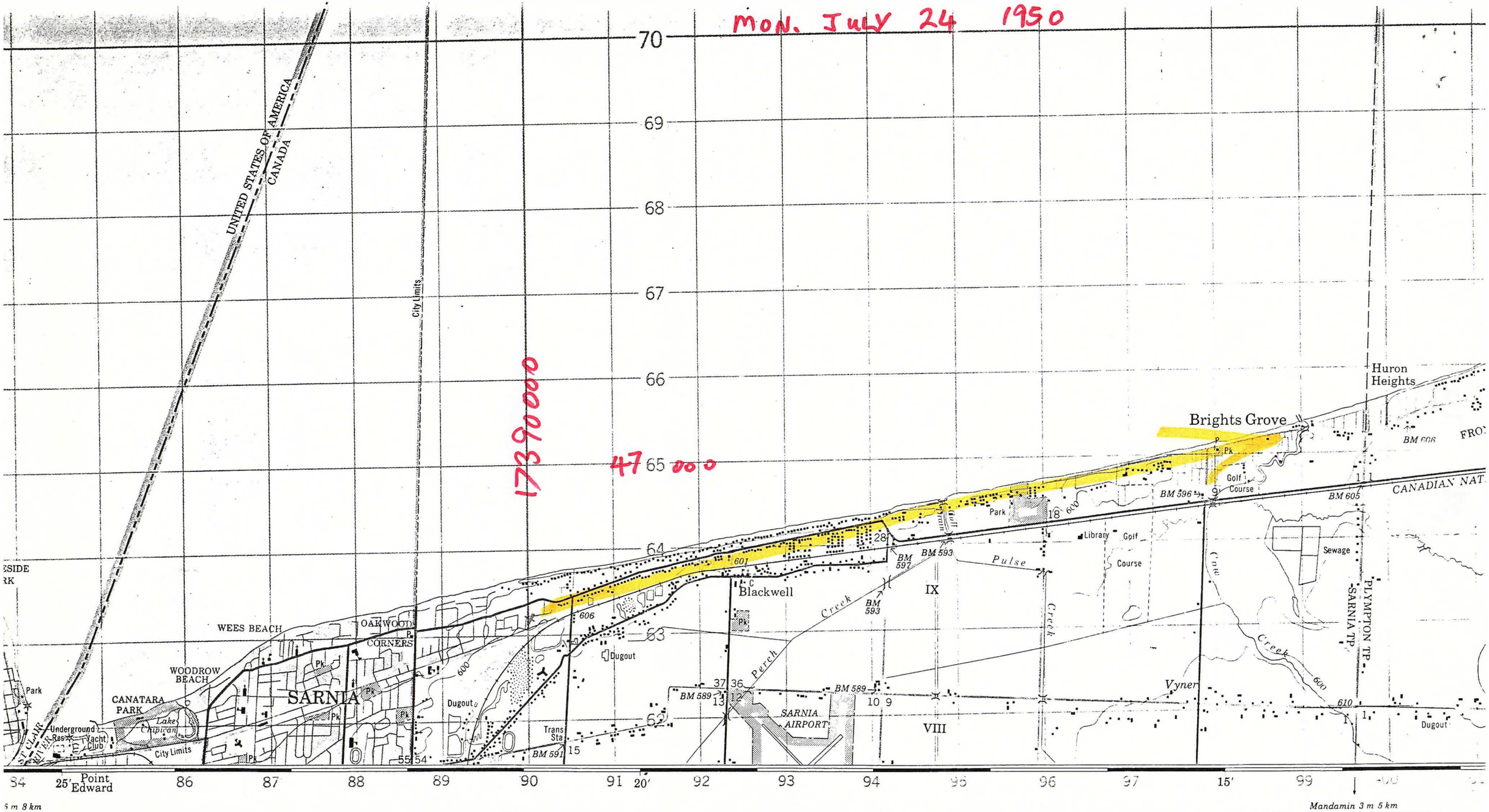
$= 816$ m

$$\beta = \frac{S_L}{57.29 L}$$
$= 5.002°$

$$\alpha = \tan^{-1} \frac{|y - y_1|}{|x - x_1|} = 12.6°$$

NE quad $\phi = 90 - \alpha$
NW " $\phi = 270 + \alpha$
SW " $\phi = 270 - \alpha$

SE quad $\phi = 90 + \alpha$
$\phi = 257$



Roads:
hard surface, all weather

Routes:
pavée, toute saison

dual highway
2 chaussées séparées

more than 2 lanes
plus de 2 voies

BRIGHTS GROVE

CANADA–UNITED STATES OF AMERICA

SARNIA CANADIAN OBSERVER, MONDAY JULY 24TH. 1950.

STORM DATE. "SHORTLY AFTER" 10 A.M., MON. JULY 24TH. 1950.

TWISTER HITS AREA.

TWO HOMES HIT BY LIGHTNING, NO INJURIES..TOPPLED TREES BLOCK ENTRANCES, TO HOMES.

A heavy thunderstorm...described by many local residents as a twister...struck hard at SARNIA and the nearby LAKE HURON RESORT DISTRICT for a three-to-five-minute-period shortly after 10a.m. today, causing numerous trees to fall and knocking chimneys from several homes.

At least eight summer cottages on the LAKE SHORE ROAD had entrances blocked by falling trees. Two homes were struck by lightning.

No injuries were reported from the storm which was accompanied by heavy rain.

At the home of RUSSELL A. POWELL, 124 CECIL STREET, lightning ripped through near the peak of the house, flashed through the attic, and left two holes in the ceiling of one of the upper bedrooms.

MRS. POWELL said the force of the exploding bolt shook the whole house. MRS. POWELL and her three-year-old daughter, ANNE, were sitting downstairs in the living room at the time, and were not hurt.

City firemen and police raced to the scene, but no fire resulted from the lightning bolt. A few bolts were knocked out of the wall.

The storm was of such short duration that no damage was done to Hydro or telephone lines, according to officials of both local offices.

Provincial police reported no damage from the area they patrol.

Scores of trees were broken off and uprooted beginning south of the MODELAND ~~KXXX~~ SIDEROAD and extending up the lake to the BRIGHT'S GROVE area.

Two eyewitnesses, who live about one mile northeast of the MODELAND SIDEROAD, described the twister as "a black cone of wind" accompanied by lightning.

MRS. J. S. BLUNT said that she saw it come in from LAKE HURON accompanied by lightning flashes. MRS. A. M. HARTLEY also reported seeing the conical storm, sweep in.

Damage was spasmodic, with the severest damage being encountered farther in from the city.

NO INJURIES.

There was not a great deal of ~~DAMAGE~~ actual damage to houses and no injuries were reported, but dozens of finely-terraced lawns were torn by uprooted trees.

In one residential section,which included the residence of S.B. SCOTT,several trees in the lawn were ripped out,while across the road in a vacant lot none of the trees were touched.

The JOHN KEMBER home,located on the west side of the road,had two trees uprooted and another broken off as well as several branches broken from adjoining trees.

The lawn was landscaped last year at a considerable expense and it is anticipated that it will be necessary to repair the entire yard.

HEAVY RAIN.

MRS.KEMBER described the furious wind as having struck with terrible suddenness.Heavy sheets of rain kept her from being able to see outside,she said.

MRS.CHARLES O'HEARN,whose residence is located a short distance down the road,on the opposite side,lost six trees to the fury of the twister.

She concurred with MRS.KEMBER as to the swiftness of the wind and the darkness which accompanied it.

BUS DETOURS.

The story was the same all ~~xxxx~~ the way along,beautiful homes narrowly escaping damage and the lawns torn asunder.

It was necessary for the BRIGHT'S GROVE bus to detour because of trees blown across the LAKE SHORE HIGHWAY in the area of the KEMBER and O'HEARN homes.Other homes in the area to loose trees in the storm were CHARLES PHELPS, A.NIBLOCK, F.S.FISHER and A.G.WANLESS.

A tree across the MODELAND SIDEROAD,between the LAKE SHORE HIGHWAY and LAKE HURON literally cut off several lake front residents for a short time this morning.It was necessary for anyone wishing to reach the homes of DR.W.G.GREY, HOWARD SYMINGTON, FRED BREMNER, DR.WALTER CARRUTHERS, A.E.SOLE, CLAYTON THOMSON, GEORGE WHITHAM, BOB McGEACHY and LOGAN MILLMAN, to either walk or use a series of private lanes to get to them.

A 1950 automobile,owned by MISS WINIFRED SCOTT of DETROIT was damaged extensively when a tree fell across it.Another car,belonging to D.W.MARKS of WINDSOR,who was staying nearby,in a cottage owned by GEORGE WHITHAM,narrowly escaped when a heavy limb fell within inches of it.

Several boats were picked up from where they were beached and blown a considerable distance along the shore and deposited without much damage,one resident reported.