B (1) A (2)

(1) F = 1 (PE. NOV. 18 80).
(2) F = 1 ONT

TORNADO PROJECT SUMMARY SHEET

1. DATE AND TIME 4. July. 1969 APPROX 1830 EDT

2. LOCATION OR PATH (attach map) (1) TOUCHDOWNS IN AMHERSTBURG 0696914 (2) VCNTY COLCHESTER 0696915

3. PATH LENGTH [✓] NOT KNOWN [ ] <1 mi; [ ] 1-4mi; [ ] 5-10mi; [ ] 11-50mi; [ ] LENGTH IF >50mi

4. PATH WIDTH UNKNOWN 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
(Such as hail, vivid lightning heavy rain, no rain, etc.)

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

12. TOTAL INJURED 1 (1) (2) 13. TOTAL HOMELESS UNKNOWN

14. LIST ALL REFERENCES

GLOBE AND MAIL, TORONTO (AP) 5.7.1969
CONSTABLE ? ROBERT LONG. (519). 738-4141.

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

(1) (a) SQUALL LINE STRETCHING ACROSS SOUTHERN ONT - LK ERIE - OHIO. TORNADOES REPORTED NEAR TOLEDO AND CLEVELAND ALSO SUNDUSKY

(2) (a) FUNNELS OBSERVED ACCORDING TO CONSTABLE LONG.

(b) 8 KILLED AND HUNDREDS INJURED IN U.S. IN COLCHESTER EVERY STREET JAMMED BY FALLEN TREES AND SMASHED CARS. DAMAGE IN AMHERSTBURG WAS HEAVY, WITH STREETS JAMMED WITH CAR AND TREES, AND PARTS OF BUILDING TORN OFF. DOZENS OF BOATS WERE OVERTURNED AND MORE THAN 12 PEOPLE WERE RESCUED WHEN THEIR BOATS WENT AGROUND NEAR AMHERSTBURG

WERKSHEET

IDTO 0696914

① ORIGIN x 17324400
y 4662400

⑤ Standard Error S_x 300 C

② LIFT-OFF x_1 17326000
y_1 4663200

⑥ Standard Error S_y 1000 C.

③ $(x_1 - x)$ = 1600

④ $(y - y_1)$ = 800

⑦ DAMAGE LENGTH

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

③+④ [→ r,θ] = 1789 m

⑧ $\alpha = \tan^{-1} \frac{|y - y_1|}{|x - x_1|}$

[x ↔ y] = 27°

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

⑤+⑥ [→ r,θ] = 1044 C

⑩ $\beta = \frac{\tan^{-1} S_L}{L}$

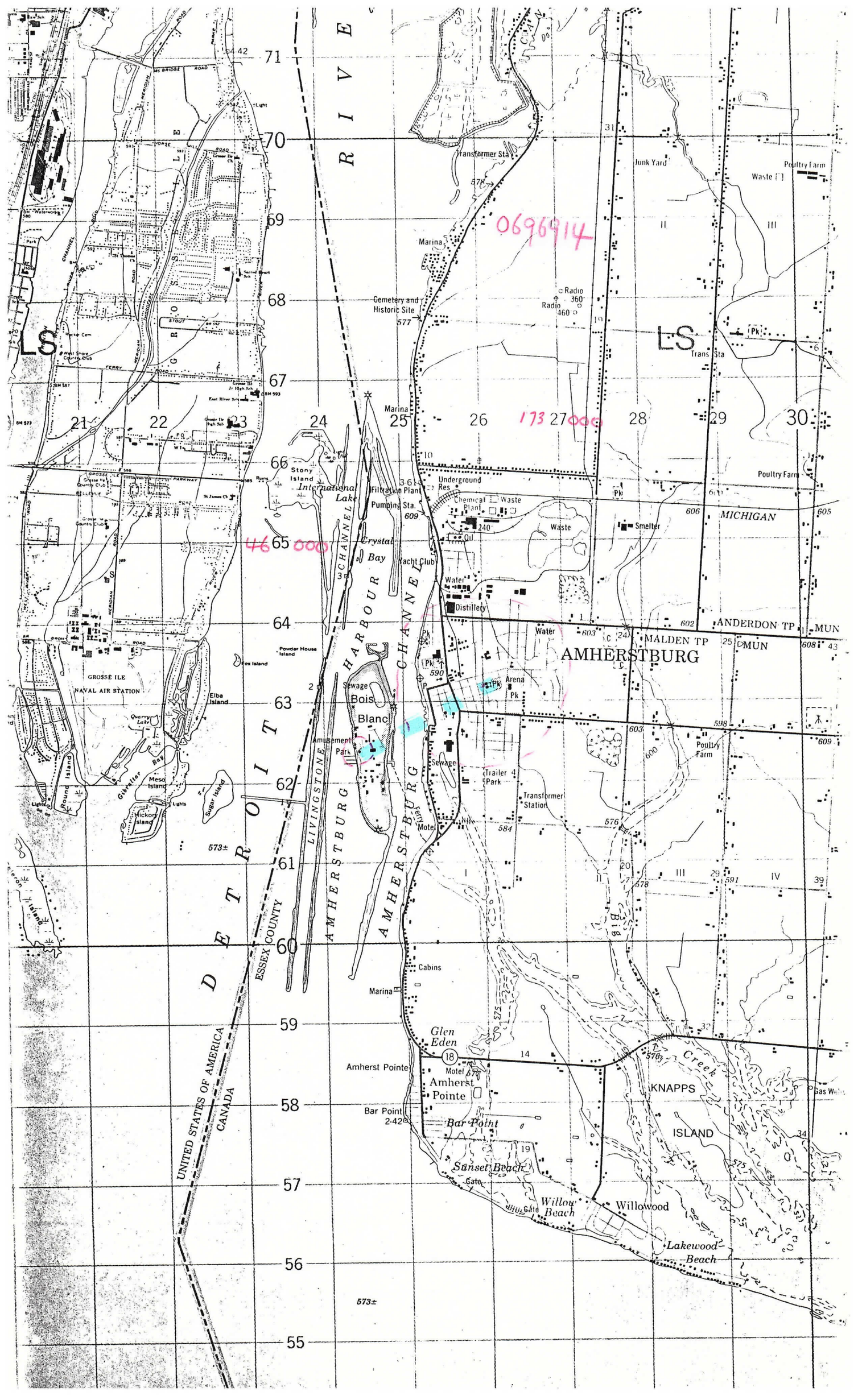
⑦+⑨ [→ r,θ]

[x ↔ y] = 30°

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

SE quad $\phi = 90 + \alpha$

⑪ ϕ = 243°


DETROIT RIVER
LIVINGSTONE CHANNEL
AMHERSTBURG HARBOUR
CHANNEL
ESSEX COUNTY
UNITED STATES OF AMERICA
CANADA
GROSSE ILE
NAVAL AIR STATION
Stony Island
International Lake
Crystal Bay
Powder House Island
Fox Island
Elba Island
Bois Blanc
Amusement Park
Round Island
Gibraltar Bay
Meso Island
Hickory Island
Sugar Island
Quarry Lake
Marina
Transformer Sta
Junk Yard
Poultry Farm
Waste
Gemetery and Historic Site
Radio 360
Radio 460
Trans Sta
Underground Res
Filtration Plant
Pumping Sta
Chemical Plant
Waste
Oil
Smelter
MICHIGAN
Yacht Club
Water
Distillery
ANDERDON TP
MALDEN TP
AMHERSTBURG
Arena
Sewage
Trailer Park
Transformer Station
Motel
Cabins
Glen Eden
Amherst Pointe
Motel
Bar Point
Sunset Beach
Willow Beach
Willowood
Lakewood Beach
KNAPPS
ISLAND
Big Creek
573±
573±

Phone conversation with police (Constable ?)
Robert Long of the South Colchester Township
Police in regard to a damaging storm
of July 4 1969.

A barn was demolished on the farm
of Leo Charby (since moved away). Con III
and Drummond Rd. Another barn nearly
had its roof taken off and landed
out on the highway.

Constable Long said that there
appeared to be three storm paths and
that funnels were seen.

One struck Cabot's trailer park, just
east of Colchester and uprooted many trees
~~Reading northeast on the ground~~, by
Peter Timmens (519) 738-2526, between
Harrow and the Experimental Farm.
A third damage area occurred
just east of Police Chief Gordon
Masontates property.

→ Called on Nov 18/80 He did not see a
funnel. He observed a pair of barn doors
being lifted off and carried 4 feet
above the ground across a tobacco field
and then dropped. The only other damage he
knew of was broken tree limbs.