

PROJECT 10073 RECORD CARD

1. DATE 12 Oct 59	2. LOCATION Washington, Georgia (Sharon & Crawfordsville Ga.)		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
3. DATE-TIME GROUP Local 1300 GMT	4. TYPE OF OBSERVATION ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar		☒ Other <u>Cloud Seeding</u> ☐ Insufficient Data for Evaluation ☐ Unknown
5. PHOTOS <u>physical Specimen</u> ☐ Yes ☒ No	6. SOURCE Military & Civilian		
7. LENGTH OF OBSERVATION N/A	8. NUMBER OF OBJECTS N/A	9. COURSE Falling N/A	
10. BRIEF SUMMARY OF SIGHTING Gossamer type substance, like spider webs, continued to fall fm the sky for approximately 2 hrs. Some witnesses described it as web-like strings w/red pea sized objs, like spiders, at the ends.		11. COMMENTS The material was analyzed and found to contain elements used in cloud seeding operations.	

HEADQUARTERS
2853D AIR BASE WING

Robins Air Force Base, Georgia

TO SPEED DELIVERY OF
YOUR REPLY, PLEASE
ADDRESS COMMUNICATION
TO ATTENTION OF

WRBB

SUBJECT: Unidentified Material

15 October 1959

TO: ATIC
Wright-Patterson AFB, Ohio

1. At approximately 1300 hours 12 October 1959, [REDACTED] Announcer, [REDACTED] Radio Station, [REDACTED] Georgia, reported by telephone to Mr. C. L. Parkerson, Deputy Base Provost Marshal, Robins AF Base, that unidentified objects were falling from the sky in and around the City of Washington, Georgia.

2. MSgt James L. Hopkins and TSgt Frank Miguel, Air Police Supervisors, Base Provost Marshal Division, RAFB, were assigned to conduct a preliminary investigation of this incident. Sgt's Hopkins and Miguel arrived on the scene at 1720 hours 12 October 1959. At this time the weather was clear and no clouds were observed. Further, no objects were observed falling from the sky by Sgt's [REDACTED] and [REDACTED]. The following personnel were interviewed:

a. [REDACTED] Radio, [REDACTED] Ga; age, 34; education, college. (Attachment Nr. 1)

b. [REDACTED] Crawfordville, Ga; age, 35; education, high school. (Attachment Nr. 2)

c. [REDACTED] Wilkes County; age, 65. (Attachment Nr. 3)

d. [REDACTED] Fire Dept;
Washington, Ga; age, 58. (Attachment Nr. 4)

e. [REDACTED] housewife; age, 59;
Sharon, Ga. (Attachment Nr. 5)

f. [REDACTED]; Georgia State Patrol,
Post Nr. 17; Washington, Ga. (Attachment Nr. 6)

3. A review of the statements made by the above listed personnel revealed the following:

a. The objects sighted were described at two (2) different elevations. At about 2,000 feet, and when directly in line with the sun, the objects were described as artificial snow or angel hair; at tree-top level, the objects were described as threads from 10' to 50' long connected at 3/4" intervals by minute particles resembling snow flakes. The color of these threads was reported to be the same color as a spider web. The observers stated that many thousands of these thread-like objects were seen floating in the air and falling to the ground. Approximately ten (10) of the "threads" were reported to have a small pea size red object, resembling a spider, at one end. When hitting the ground or becoming lodged on tree limbs or wires, the threads would remain visible for a few minutes and then disappear.

b. The objects were observed at the following locations and times:

(1) Three and a half (3 1/2) miles north of Sharon, Georgia at the farm house of Mr. [REDACTED] located on Highway Nr. 47. The objects were first noticed at about 1145 hours 12 October 1959 by a woman, identified only as [REDACTED], when she looked directly into the sun. A [REDACTED] resident of subject farm house, who was called from the

house by "[REDACTED]", in substance gave the following account of what she first observed: "I saw an object traveling at not too fast a rate of speed from southeast to west. There was a stream of illusive substance traveling behind which seemed as large as the vapor from a jet plane. It (the object) was as large as a football and either brown or black in color and at no time vered (veered) from the course."

(2) The residence of [REDACTED], Washington, Georgia. Objects were observed at about 1400 hours 12 October 1959.

(3) Eighteen (18) miles northeast of Washington, Georgia on Highway 79. Objects were noticed at about 1500 hours 12 October 1959.

c. [REDACTED] Georgia State Patrol, stated that at about 1500 hours 12 October 1959, while mowing his lawn in the rear of his residence located on Grove Street in Washington, Georgia, he observed on the grass of his lawn two (2) white or gray streaks, approximately 8 inches wide and ten (10) feet long, extending from east to west. He did not know how these streaks got on his lawn. Sgt Hamerick stated that he observed the streaks for a few moments, decided that they were a fungus or mold, and mowed across them. As the lawn mower went over the streaks, a gray dust rose into the air about twenty (20) inches high and settled back to the earth rapidly. Samples of the dirt in Sgt Hamerick's yard, and grass from his lawn mower, were taken for chemical analysis by Mr. Robert Boyd, Chemist, Materiel Division, RAFB. On 14 October 1959, Mr. William Sheppard, Supervisor Chemist, RAFB, reported that the samples obtained from Sgt [REDACTED]'s yard contained silver halides micro residue. A complete analyses of the samples has not been completed as of the date of this report.

d. The weather conditions in and around Washington, Georgia were as follows: visibility 12 miles; 1/10 cloud cover; winds from the east at 5 knots; 080 degrees. The wind direction and velocity at 6,000 feet was 330 degrees, 10 knots. The temperature gradient was minus 2° C/1,000 feet.

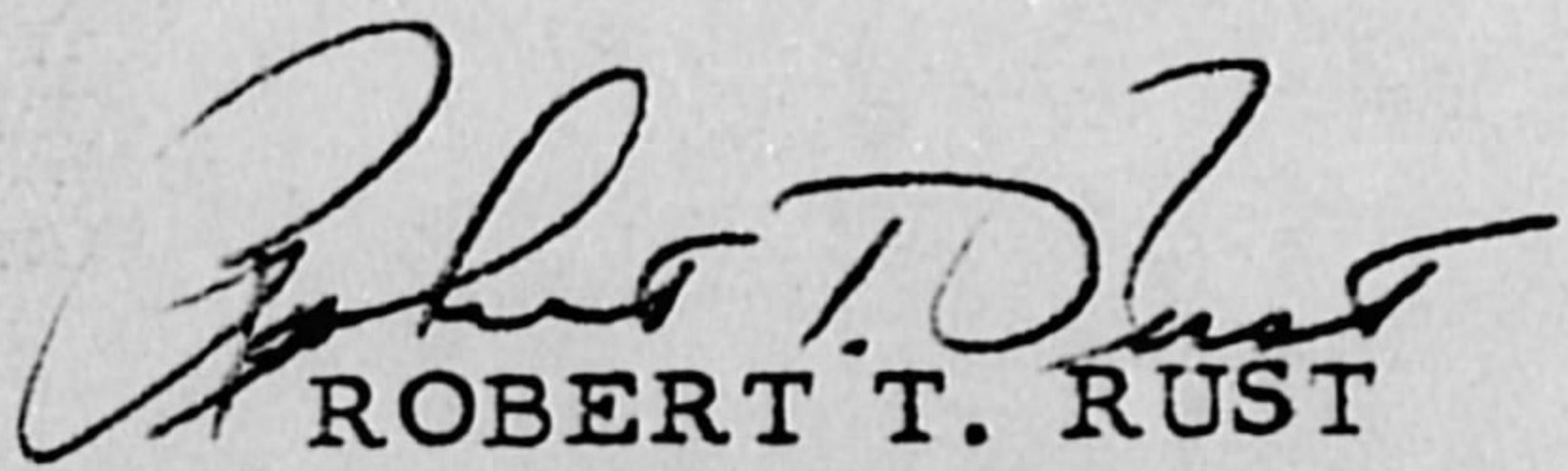
4. Contacts were made to check on possible sightings and/or contamination of the air by objects in and around Washington, Georgia with RAFB Weather Personnel and Georgia State Health Department Laboratory, Macon, Georgia. Negative results were obtained.

5. The following activities were consulted:

Det 13, 4th Weather Gp - Major Wilson
6th District OSI - Lt Colonel Bitcon
Base Operations - Major Porter
Chemical and Materials Laboratories - William Sheppard
Det 11, 12 RBS - Captain James H. MacInnis

6. Upon receipt of final chemical analyses and any conclusions to be drawn therefrom, a final report will be submitted.

FOR THE COMMANDER:


ROBERT T. RUST
Major, USAF
Base Provost Marshal

7 Atch
1. Stmt of [REDACTED]
2. Stmt of [REDACTED]
3. Stmt of [REDACTED]
4. Stmt of [REDACTED]
5. Stmt of [REDACTED]
6. Stmt of [REDACTED]
7. Map of Washington,
Ga Area

Page #1

Born [redacted] /25,
Graduate George Peck
College, Nashville, Tenn.
B.A. Degree, June '51
Service: U.S.N.R.
11/43 - 11/45

On Monday, Oct. 12, 1959, a phone call was received in our station, [redacted], [redacted], Ga., at approximately 12:10 P.M., from Mrs. [redacted]. [redacted] stated that strange objects were in the air over her house, and resembled spider webs. She went into a full description of events leading up to the occurrence of the webs, and speculations.

[redacted] + I arrived on the scene at 12:54 P.M. What I saw was as follows: Literally thousands of streamers of web blowing from the ~~SE~~ S.W. to the N.E. This was observed from the position of the sun. As we continued to observe (using 7x35 binoculars) we could see that many of webs were a dispersing of matter from a ball shape. These were floating in the air, and various sizes. We observed many of these drift in and disintegrated into many web streamers, some of single strips, others of multiple streamers with a portion of large material on the end, as if it had not completely disintegrated. On two or three of these streamers, red spiders were observed, or something resembling a spider.

Not all of the webs were observed to break from a sphere, but came floating in. Many settled to the

ground, --- caught on light wires --- roof top, or
antennas.

We observed the webbs for over two hours. At the
end of this time, they were still coming in with the
same intensity as when first observed. I departed from
the [redacted] home in order to return to [redacted] for
a Geiger Counter to check radio-activity. The counter mal-
functioned because of dead batteries, on our return. At four
o'clock, there was a sudden let up and by 1615 hardly
any were noticeable.

Some of the streamers seemed to be weighted on each end.
They, I feel, --- well, hell, I don't know ---

[redacted]

Reports of angel hair still come in occasionally to ATIC and, if the explanation is not immediately obvious, are investigated. On the afternoon of October 12, 1959, officials at Robbins Air Force Base, Georgia, received a telephone call stating that unidentified substances were falling from unknown objects in the sky near the town of Washington. Two Air Force investigators arrived in the town before evening to interview the witnesses and examine the material.

The first sighting had occurred shortly before noon, when a farm woman noticed an object in the sky, traveling not particularly fast from southeast to west. A stream of peculiar-looking substance, broad as the vapor trail of a jet plane, was trailing behind and floating toward the earth. The object itself was "as large as a football," brown or black in color, and maintained a perfectly straight, even course. A few hours later in a town a few miles northeast, a man mowing his lawn noticed on the grass two whitish-gray streaks about ten feet long and eight inches wide, extending from east to west. Deciding that the peculiar streaks were a fungus or a mold, he mowed across them; at once a gray dust rose about twenty inches into the air and then settled back to earth.

The Air Force investigators took samples of the dusty earth and grass for analysis. Chemical tests showed the presence of silver iodide. Finding silver in such an unlikely place posed a problem, but it also pointed the way to a solution. Silver iodide and other silver halides are used in cloud seeding to produce rain; long "plumes" of this material, ejected from planes, have been successfully tracked in mountainous country for distances of thirty-five miles downwind. A few questions in the right places produced the answer: research teams from the University of Georgia at Athens and from the Lockheed plant at Marietta had been in the air that day, carrying out experiments in cloud seeding. The angel hair was the silver iodide used in the experiment [10].

At approximately 11:45 A.M. October 12, 1959 the colored girl, who was working in the yard (hanging out clothes) called, "Come here, right quick." When we went in the yards, there was an object traveling at not too fast a rate of speed, traveling from South East, to west. There was a stream of illusive substance trailing behind which seemed as large as the vapor from a jet plane. When the sun's rays were on it you could see it, then as it moved on for a second you didn't see it. I thought that it might be a weather balloon and the trails shredded nylon. I tried to tell the colored girl that this was what it was, dismissed it from my mind and went back into the house along with my Mother who had seen the same thing. When more of these billowy forms appeared, she called again and when we saw that there seemed to be an excess amount of whatever it was in the sky and this time it was not following a pattern across the sky but was drifting downward, I went in to the house and called both fire towers listed in the directory, hoping that someone in one of the towers could tell more about it. It being a holiday, no one was at either place. Mother suggested calling our radio station in [redacted], to see if anyone else had reported having seen it. When I called I believe I was answered by a [redacted] and he said that they had had no report and stated that someone would come out. While waiting for [redacted], we stayed in the yard to watch. At times it appeared to be coming in from the east, high in sky at first and drifting downward, at other times it appeared to be shooting directly from the sun. Some of the trails or pieces of it were larger than others, some floated high in the sky while others came earthward. Some of the parts of it that came down seemed the size of a walnut or a little larger when you could first see it, then as it came closer, almost in reach of a broom or stick, it seemed about the size of a pea and red in color but none of it that came down was as large as the first piece I had seen, it was as large as a football and either brown or black in color and at no time varied from the course that it was in when I first saw it. For a few seconds it stopped or we couldn't see it, during this time the truck from [redacted] had passed and gone on to the next town before coming back. When they came back into the yard we could see it again and both [redacted] and [redacted] were able to see it. There was also a lady from Crawfordville in the yard at the time, who saw it. After [redacted] saw that it was something that he did not understand either, he came in the house and called Hunter Air Force Base and talked with someone there. Then all of us watched it. Mother had called my Father at his work and he came in during the time too. After he came in there were two other people from [redacted] to drive out too and they all saw a part of it. At about three o'clock it seemed to stop coming in these large strands and you would see flakes of it falling, some of which we caught on twigs or the broom and then it was touched it still seemed at first to be in the class of a spider web, however it was not as tensile as a spider web, you could wipe it away which usually can't be done with a spider web, then eventually it was gone. We noticed the the top and eaves of the house as well as power lines, the television antennae and trees were filled with something that looked like a lot of spider webs. At one time we saw a strand, if it might be called that drift downward, it came close enough for us to see a red spider at the lower end of it.

about three inches below the leaf, some sort of small insect climbed this strand and went onto the leaf. I was not close enough to tell whether this was another red insect or not, could see it moving up to the leaf. These pieces of substance that I described as the size of a walnut were always at the lower end of one of the streams of what looked in the sky to be angle hair or cobwebs, when it landed it was in the form of a spider web. It glistened and shined when the sun was on it, then would disappear when the rays fell on it again in a certain way, it was there again, that is why I say it was very illusive and I had the feeling that it was all around and that we were only able to see it better, when it was in the rays of the sun, because your eyelashes and skin would feel drawn with it and at one time when we looked at [REDACTED] hands, there were webs between the fingers. Until night when you would walk between shrubbery and even the following morning you could feel this weblike substance in your face. After this, when we were waiting for the people from Macon, we watched a shiny object go across the sky from east to west, this seemed about the size of a ball, was round and shined. It kept a distinct pattern and disappeared from sight, later we spotted another and still a third after that. They did not look like what had come to earth, to me. [REDACTED] watched it with field glasses, the others of us without anything. During the time that it was falling we saw the vapor from two jets, back in the South, this was below the spot that the substance seemed to be coming from, they were lower on the horizon. At the first sighting, we neither heard nor saw a plane or anything. The first ~~*****~~ one that I saw went behind some trees and when I got on the other side of them it had disappeared. I do not mean that it was close to the trees because it was much higher, they were just in the line of view. There was an open space when it was falling and it did not have to pass through trees or anything before it reached us.

[REDACTED]

[REDACTED]

Occupation: Flowers
Age: 35
Education: High School

At approx 3 PM on 12 Oct 59 while
I was driving with a GBT Agent 18 miles N.E. on
highway 77 below Washington. Ga. I saw what appeared
to be a bunch of Spider webs or cotton candy ^{up in the} sky.
It also appeared as if small flakes were drifting around.
It looked like it was about a 100 yds from the
ground when I observed it. The Fire Chief had
on special glasses & he could tell you more
about it. I watched it for approx 5 minutes

~~_____~~

Age 65 yrs

Wilkes Co. N.C.
Oct 12 1959

13 OCT 59

12 OCT 59

At about 1:30pm I WAS STANDING IN MY
YARD, LOCATED [REDACTED] ST. [REDACTED]
GA, WHEN I LOOKED UP IN THE SKY
TOWARD THE SOUTH, JUST EAST OF THE SUN
WHEN I SAW, WHAT APPEARED TO BE
SPIDER WEBS, FLOATING DOWN OUT OF
THE SKY. THE WEBS WERE ABOUT 1,000
FEET OR MORE FROM ME, AT ABOUT A
45° ANGLE. OCCASSIONALLY, I WOULD
SEE SOME SOLID OBJECTS, WHICH WERE ODD SHAPE
[REDACTED], WHITE AND ABOUT 2" IN DIAMETER.
I ALSO NOTICED ~~SOME~~ A CONSIDERABLE
AMOUNT OF THESE WEBS ON THE TREES IN
MY YARD. I WATCHED THESE OBJECTS FOR
ABOUT 20 MINUTES AND THEN WENT TO
WORK.

[REDACTED]
AGE 19 [REDACTED]
[REDACTED]
[REDACTED] FIRE DEPT

the first vision I had of it, ^{12 JUL 59}
it was coming down to earth in
shut like spider webs or angel
hair that you decorate Xmas trees with.

It was very shiny & glittery. The
nearer the object got to the earth it
appeared to change color. Some of the
strands had what appeared to be
red ~~spider~~ ^{objects} on it which resembled spiders.
While I was watching the object & some
of them fell on me, on my glasses & on
my arms.





State of Georgia
Department of Public Safety

P. O. BOX 1777

Atlanta, Georgia

Atlanta, GEORGIA.

OCTOBER 13, 1959.

DIVISIONS
STATE PATROL
DRIVERS LICENSE
CRIME LABORATORY
SAFETY EDUCATION
ACCIDENT REPORTING
SAFETY RESPONSIBILITY
BUREAU OF INVESTIGATION

TO WHOM IT MAY CONCERN:

On the afternoon of October 12, 1959, I was at my residence on [REDACTED] in [REDACTED] Georgia.

At approximately 3 o'clock in the afternoon of this date, I began mowing my lawn in the rear of my home, using a motor driven rotor type mower. As the job of mowing progressed, I came to a section near a shade tree and I noticed two white streaks, or more correctly, grey streaks extending from an East to West direction, approximately eight inches wide and extending for a length of perhaps ten feet each. The color of this streak was not a bright nor a dull grey, but of a medium texture. I noticed no light reflection from it.

My initial impression was that some type of mold or fungus was present on the grass. The entire length of each blade of grass was covered and the grass itself was also covered with this matter. I noticed no silken strands or similar matter and the appearance of this stuff was as if someone with a air pressure spray type paint gun had sprayed the grass.

After looking at it for a few moments, I decided that it was a mold and mowed on across it. As the mower went over it, a grey dust rose into the air approximately twenty inches high and settled back to the earth rapidly.

After mowing the entire section, I noticed that the coloring remained about the same.

After mowing the yard, I left my residence and drove up town and there I learned that someone had reported an unusual occurrence at a point approximately 10 miles West of [REDACTED] on Georgia Highway number 47. Accompanied by a friend, [REDACTED] of [REDACTED], I drove out and looked at what appeared to be spider web format and it was while there that I mentioned that I had something unusual in my back yard.

Returning home at sundown, my wife and I went to the spot in the yard and I pointed out where the streak of coloring had been, since the original grey coloring had completely disappeared except at the end of one of the original lines. The outline of where the lines had been was still distinguished by the grass being still darker than the surrounding grass.

My wife stated that when she left for work at approximately 7:15 she noticed the same streaks. Five teen age girls came to see this streak and when I pointed out the small amount of grey remaining at the end of one of these streaks, she ran the end of her finger through it and on her finger was a smutty like dirt or powder.

Drive Carefully — The Life You Save May Be Yours



State of Georgia
Department of Public Safety

P. O. BOX [REDACTED]

[REDACTED] Georgia

[REDACTED], GEORGIA
OCTOBER 13, 1959.

DIVISIONS
STATE PATROL
DRIVERS LICENSE
CRIME LABORATORY
SAFETY EDUCATION
ACCIDENT REPORTING
SAFETY RESPONSIBILITY
BUREAU OF INVESTIGATION

[REDACTED]

Since last evening, I have not been back in the area where this oc
and I have not checked the area for any other signs that might relate to this occurrence,

[REDACTED]
[REDACTED]
GEORGIA STATE PATROL
WASHINGTON, GEORGIA.

Drive Carefully — The Life You Save May Be Your Own

HEADQUARTERS
2853D AIR BASE WING

Robins Air Force Base, Georgia

TO SPEED DELIVERY OF
YOUR REPLY, PLEASE
ADDRESS COMMUNICATION
TO ATTENTION OF

WRBB

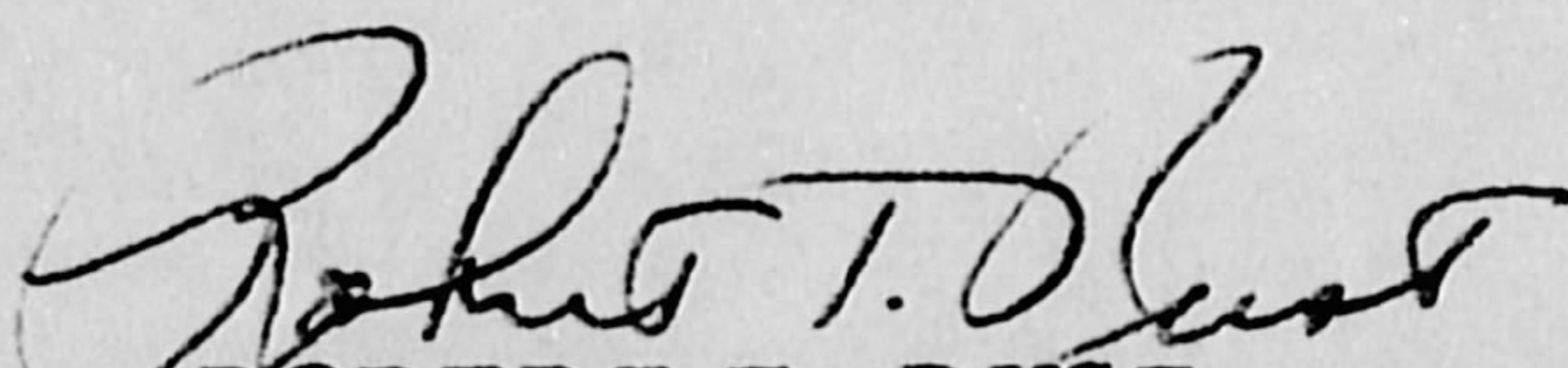
SUBJECT: Unidentified Material (Final Report) 27 October 1959

TO: ATIC
Wright-Patterson AFB, Ohio

1. Attached Laboratory Report is final report on substance found at location of Sharon, Georgia on 12 October 1959. We believe this matter to have been satisfactorily resolved; that subject material is, in fact, natural phenomenon from cloud seeding efforts.

2. No further investigation is deemed warranted and case is considered closed.

FOR THE COMMANDER:


ROBERT T. RUST
Major, USAF
Base Provost Marshal

1 Atch
Laboratory Report

WARNER ROBINS AIR MATERIEL AREA
QUALITY CONTROL DIVISION
QUALITY ANALYSIS BRANCH
CHEMICAL & MATERIALS LABORATORIES

Laboratory Report

TO: BB

DATE: 19 Oct 59

DESCRIPTION: Material Residue Allegedly Seen
Falling From Air in Vicinity of
[REDACTED] Georgia

PROJECT NR: C-785

PURPOSE:

To identify microresidues that may be found on ground and equipment surfaces in cited area.

FACTUAL DATA:

A cobweb-like material was claimed to have been seen in the air by several people at a home between Sharron, Georgia, and [REDACTED] Georgia, shortly after noon on 12 Oct 59. A complete report on these sightings will be found elsewhere.

Samples were taken from various locations in the area in which the material was supposed to have fallen, and are as follows:

Sample # 1 - dust from a table top located outside the house. This table top was only partly exposed during the time of the sightings.

Sample # 2 - small pieces of weathered insulation taken from exterior electrical wiring behind the house. It was claimed that these wires were covered very heavily with the webs during and shortly after the sightings, but that the webs gradually disappeared.

Sample # 3 - water from the bottom of an inverted galvanized iron wash tub. This water supposedly had been there during the sightings.

Sample # 4 - grass cuttings taken from the bottom of a lawn mower. This lawn mower was new and had been used one time only in the yard of a house belonging to [REDACTED] of the Georgia Highway Patrol, located in [REDACTED], Georgia. It had been used to mow over an area discolored by a gray-white powdery substance. (See [REDACTED] statement.)

Sample # 5 - taken from the top surface of [REDACTED] yard across the above-mentioned discolored area. This sample included soil, grass, rocks, and tree leaves.

Alch #1

PROCEDURE:

Spectrographic analysis of all samples, or of aqueous or acid extractions of the samples.

Wet chemical analysis of samples for non-metal elements.

RESULTS:

- Sample # 1 - No foreign elements.
- Sample # 2 - Slight Amount of Silver present.
- Sample # 3 - Very slight amount of silver present.
- Sample # 4 - High amount of silver present.
- Sample # 5 - Slight amount of silver present.

All samples contained elements normally expected to be in the particular type sample. The above results show only the elements which would be considered as foreign to the samples. Wet chemical analysis showed a relatively high concentration of mixed halides, but chlorine was the only one in sufficient quantity to be positively identified.

SUMMARY:

The presence of silver even in small concentrations from such unlikely places as the samples were taken is very significant, and strongly indicates that a silver compound could have caused the phenomenon. Silver iodide is widely used in cloud seeding, and other silver halides have been used. Research in this field is constantly being carried on, and it is understood that the University of Georgia in Athens has been engaged in a research project of this type. It has since been learned that the Lockheed Company in Marietta possibly is also engaged in a similar program.

Literature on the subject uses the term "smoke" as coming from silver iodide generators. The 1959 Encyclopedia Americana Annual states that "plumes of this material (silver iodide) were successfully tracked in mountainous country up to 35 miles downwind". These terms seem to be descriptive of that which was seen.

It is a good possibility that cloud seeding with a silver salt could have caused the phenomenon.

Reported By: _____

Robert F. Boyd
ROBERT F. BOYD
Chemist

Approved By: _____

William M. Sheppard
WILLIAM M. SHEPPARD, Chief
Chemical & Materials Laboratories
MJAC - Ext 6528

22 October 1959

SUBJECT: Flash Report on UFO, Sharon, Georgia

The following information is reported to you because of the fact it has received some public attention and broadcast over TV station [redacted] of Georgia. As such, the General or his staff may be contacted in regard to this matter and, of course, inquiries will be made to you.

At 1300 hours, 14 Oct 59, a gossamer silk-like substance continued to fall from the sky over Sharon, Ga. for almost 2 hours. According to UFO regulations, this material was investigated by the Provost Marshal's office, Robbins AFB, Ga. under the personal direction of Maj. Rust.

In a telephone conversation between Maj. Friend and Maj. Rust regarding the best approach to this problem, it was explained to Maj. Rust that incidents of this type (called angels' hair) have been reported numerous times during the last ten years. Maj. Rust was advised to collect samples of this substance.

Accordingly, [redacted] of the Georgia State Police was able to gather a small portion of this substance which, through 2 investigators assigned by Maj. Rust, was submitted to the chemicals and materials laboratory, Robbins AFB for analysis.

The report made by the supervisory chemists of this laboratory, based on a cursory analysis, substantially is as follows: The material is effectively a silver halid and a halogen type compound which may be a form of industrial waste. A more detailed chemical examination will be required to establish the exact composition.

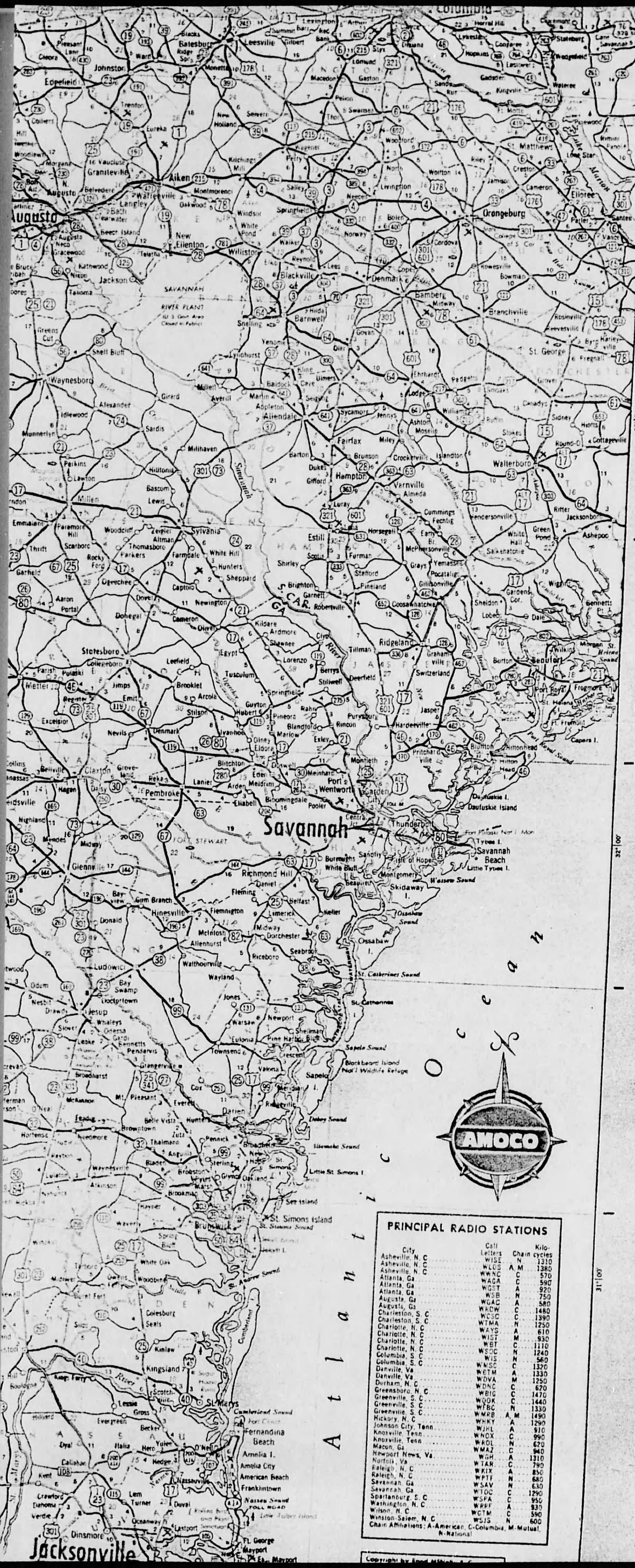
Colonel Shoop: This is somewhat similar to cases where industrial substances have been spewed into the air and carried for great distances, such as, cellulose, cotton lint, and other gaseous wastes.

Maj. Friend plotted the wind direction, which was generally W to E, and found the industrial towns of Atlanta (70 miles) and Augusta (approximately 30 miles) were almost due west of Sharon, Ga., the scene of this UFO case.

2.
Capt. George T. Gregory

cc: Maj. Friend

100000 10000 1000 100 10 1 1/2 1/4 1/8 1/16 1/32 1/64 1/128 1/256 1/512 1/1024 1/2048 1/4096 1/8192 1/16384 1/32768 1/65536 1/131072 1/262144 1/524288 1/1048576 1/2097152 1/4194304 1/8388608 1/16777216 1/33554432 1/67108864 1/134217728 1/268435456 1/536870912 1/1073741824 1/2147483648 1/4294967296 1/8589934592 1/17179869184 1/34359738368 1/68719476736 1/137438953472 1/274877906944 1/549755813888 1/1099511627776 1/2199023255552 1/4398046511104 1/8796093022208 1/17592186044416 1/35184372088832 1/70368744177664 1/140737488355328 1/281474976710656 1/562949953421312 1/1125899906842624 1/2251799813685248 1/4503599627370496 1/9007199254740992 1/18014398509481984 1/36028797018963968 1/72057594037927936 1/144115188075855872 1/288230376151711744 1/576460752303423488 1/1152921504606846976 1/2305843009213693952 1/4611686018427387904 1/9223372036854775808 1/18446744073709551616 1/36893488147419103232 1/73786976294838206464 1/147573952589676412928 1/295147905179352825856 1/590295810358705651712 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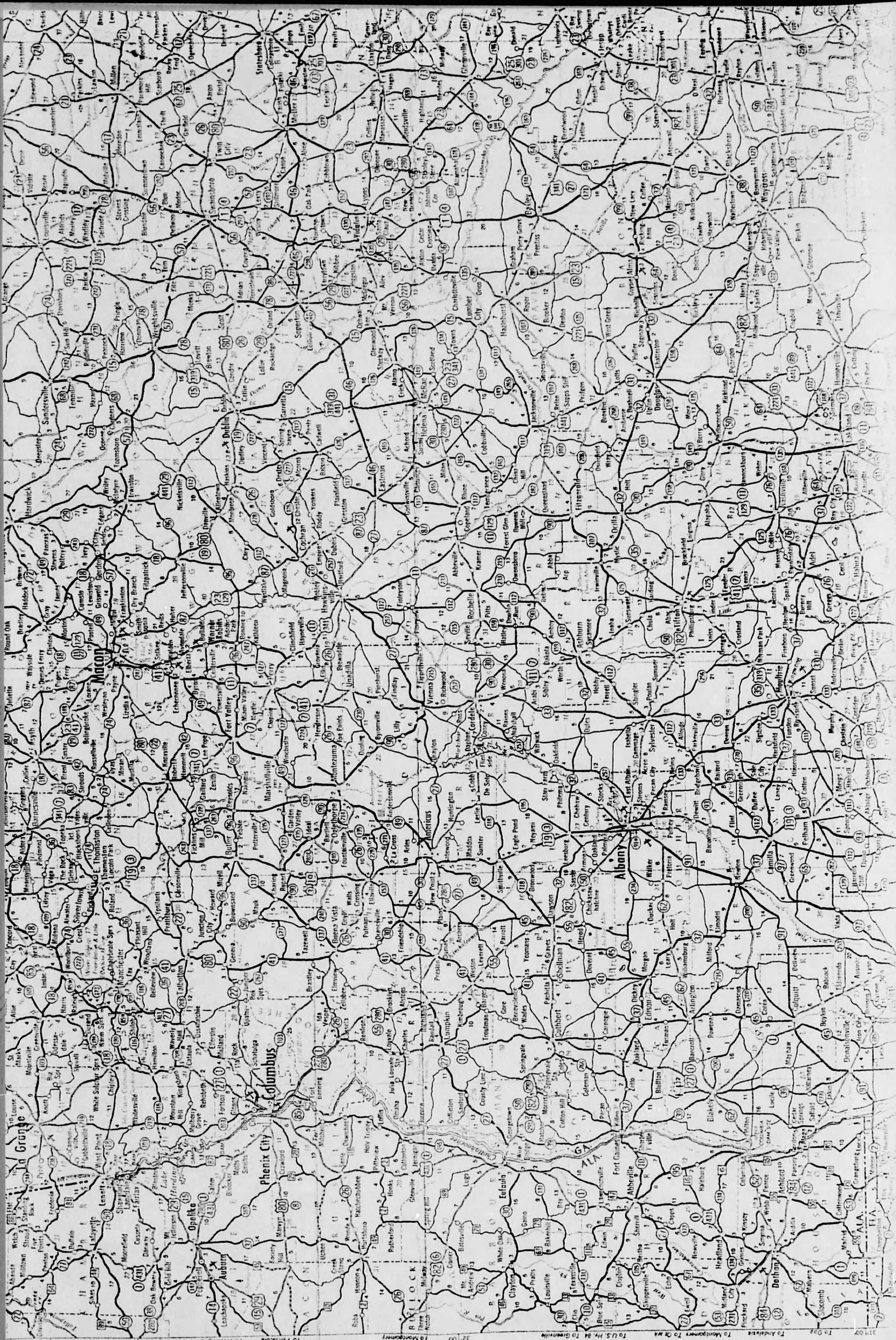
Sheet # 7

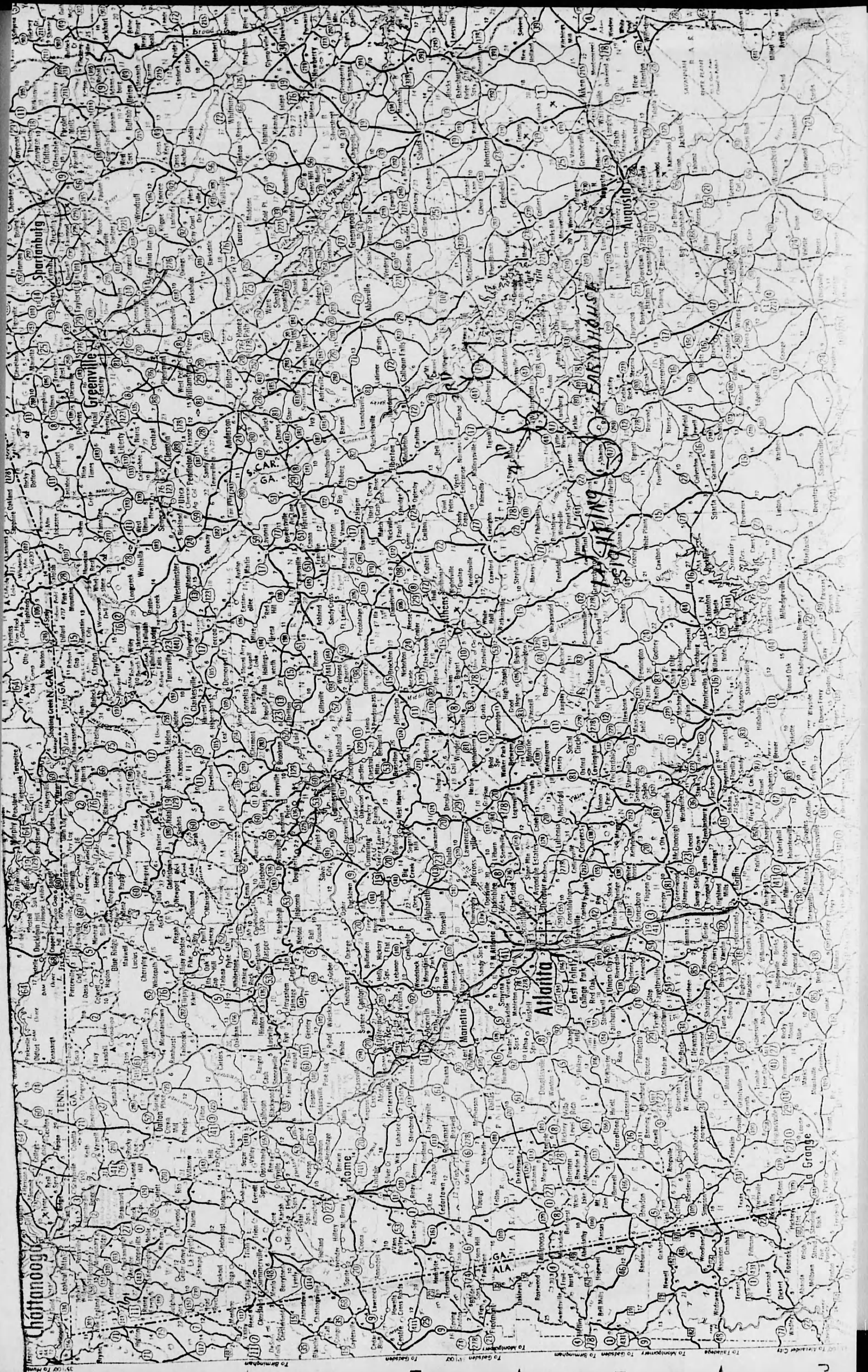


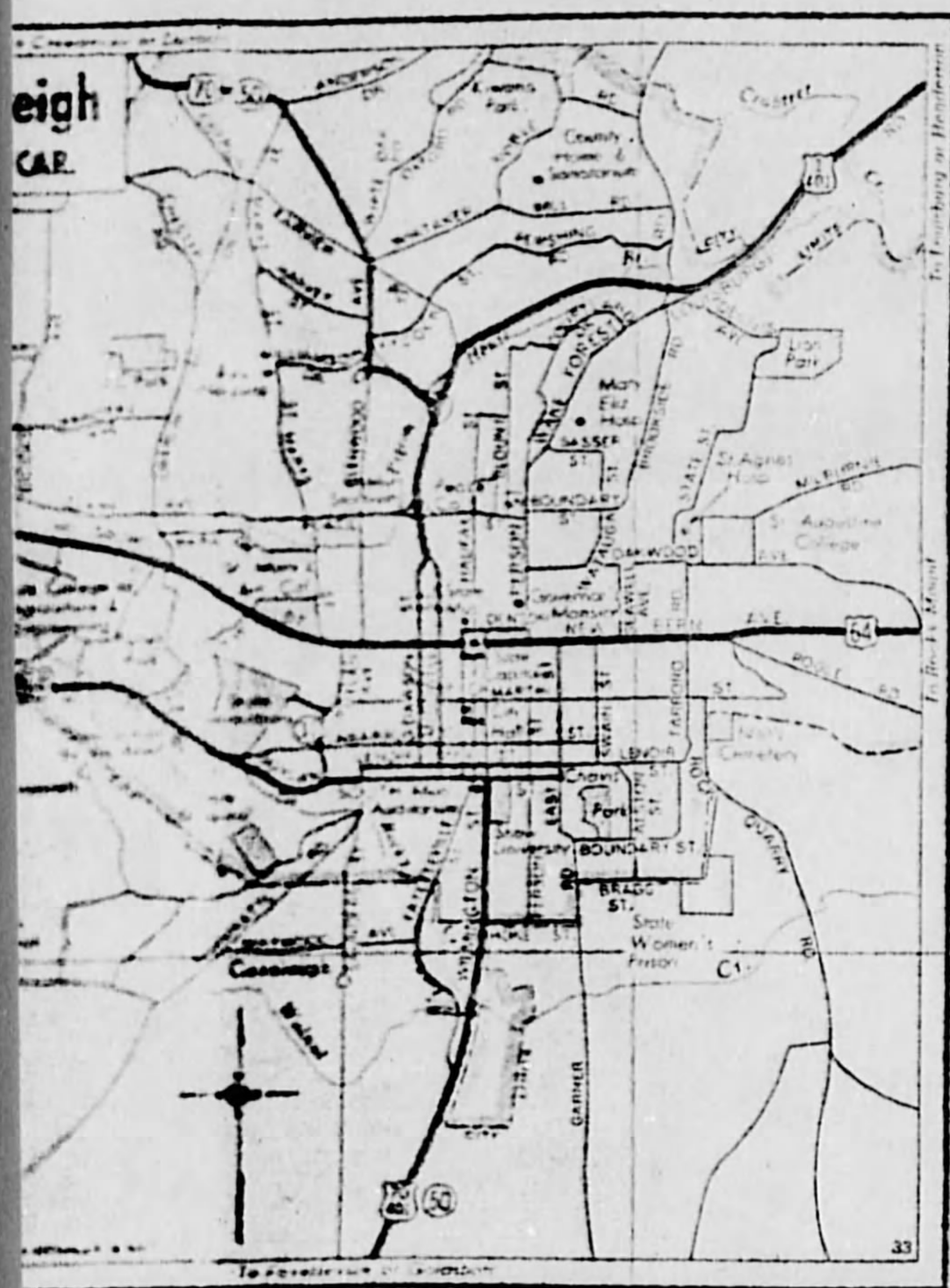
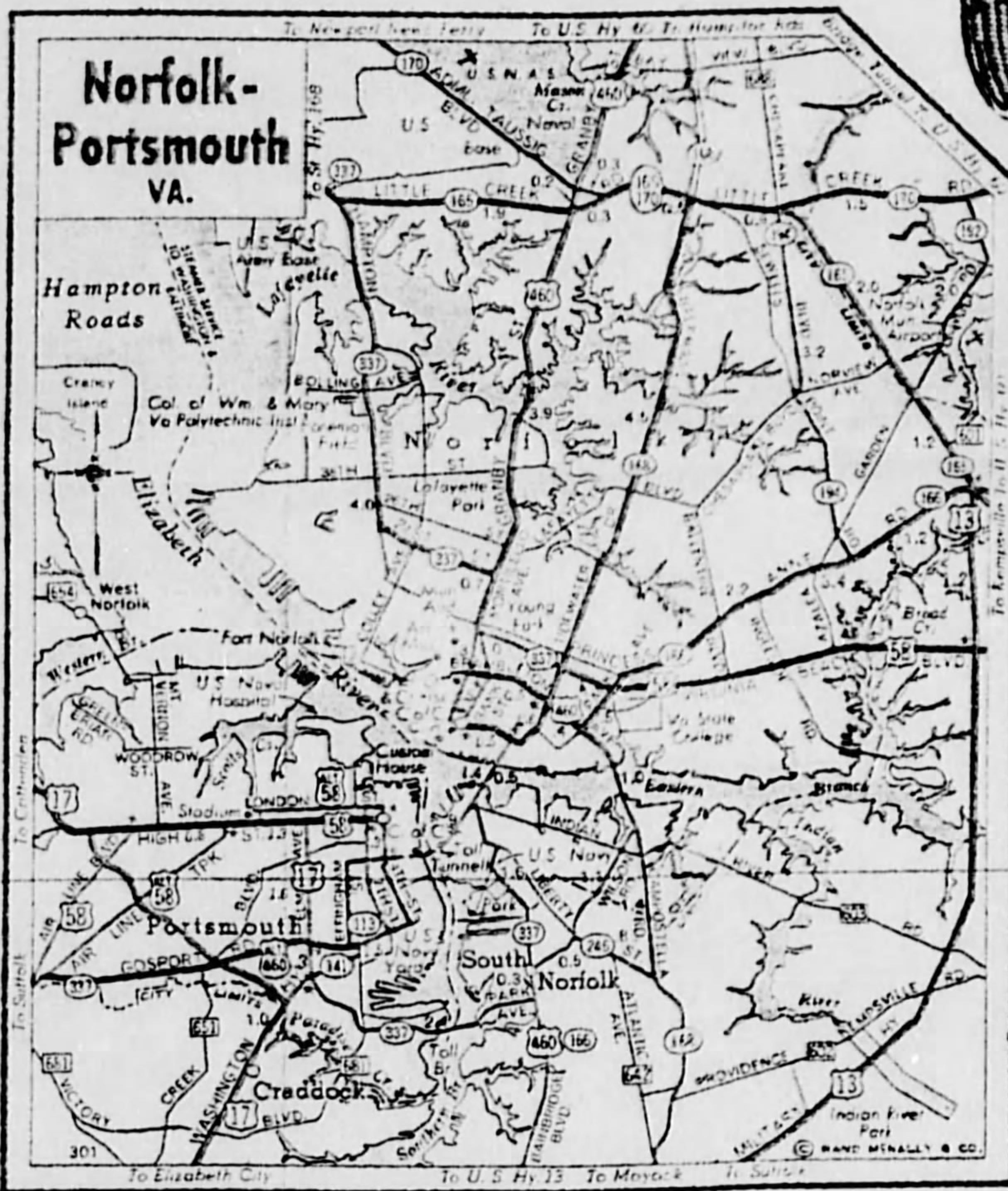
PRINCIPAL RADIO STATIONS

City	Call Letters	Chain	Kilo-cycles
Asheville, N. C.	WISN	N	1310
Asheville, N. C.	WLOS	A	1360
Asheville, N. C.	WNCN	C	570
Atlanta, Ga.	WAGA	C	590
Atlanta, Ga.	WGST	A	920
Augusta, Ga.	WAB	N	750
Augusta, Ga.	WGAC	A	580
Charleston, S. C.	WDCS	C	1480
Charleston, S. C.	WTMA	N	1250
Charlotte, N. C.	WYS	A	610
Charlotte, N. C.	WIST	M	930
Charlotte, N. C.	WBT	C	1110
Columbia, S. C.	WDOC	N	1240
Columbia, S. C.	WIS	N	560
Danville, Va.	WVET	A	1320
Danville, Va.	WDVA	M	1250
Durham, N. C.	WDNC	C	670
Greensboro, N. C.	WBIG	C	1470
Greenville, S. C.	WQVC	N	1440
Greenville, S. C.	WFGC	N	1330
Hickory, N. C.	WHRB	A	1490
Johnson City, Tenn.	WJHL	A	1290
Knoxville, Tenn.	WNOX	C	990
Knoxville, Tenn.	WROL	N	940
Memphis, Tenn.	WMAZ	C	1310
Norfolk, Va.	WGH	A	790
Raleigh, N. C.	WRX	A	850
Raleigh, N. C.	WPTT	A	860
Savannah, Ga.	WSAV	N	630
Savannah, Ga.	WTOG	C	1290
Spartanburg, S. C.	WSPA	C	950
Washington, N. C.	WHPF	A	930
Winston, N. C.	WGTM	C	590
Winston-Salem, N. C.	WSJS	N	600

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A

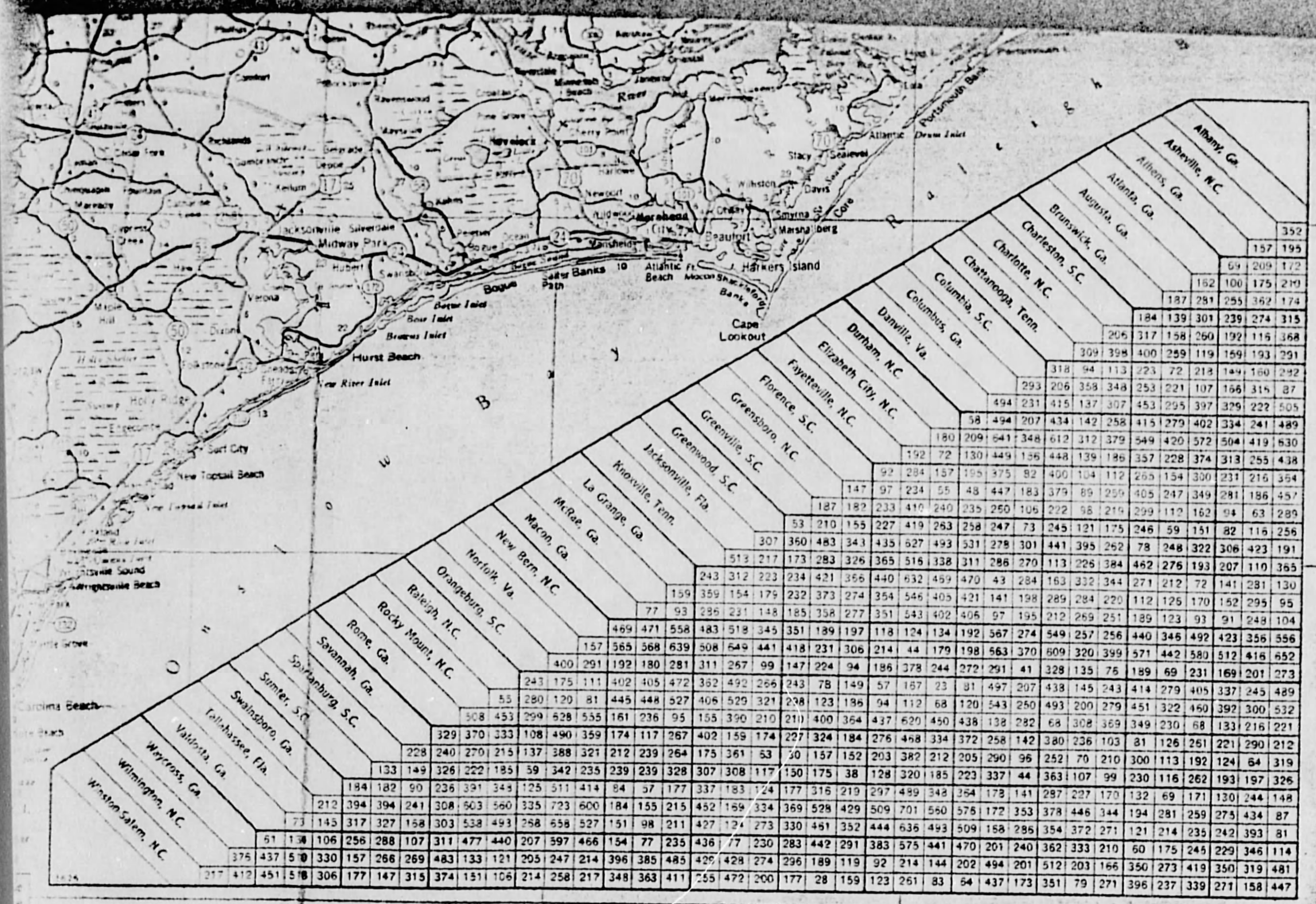
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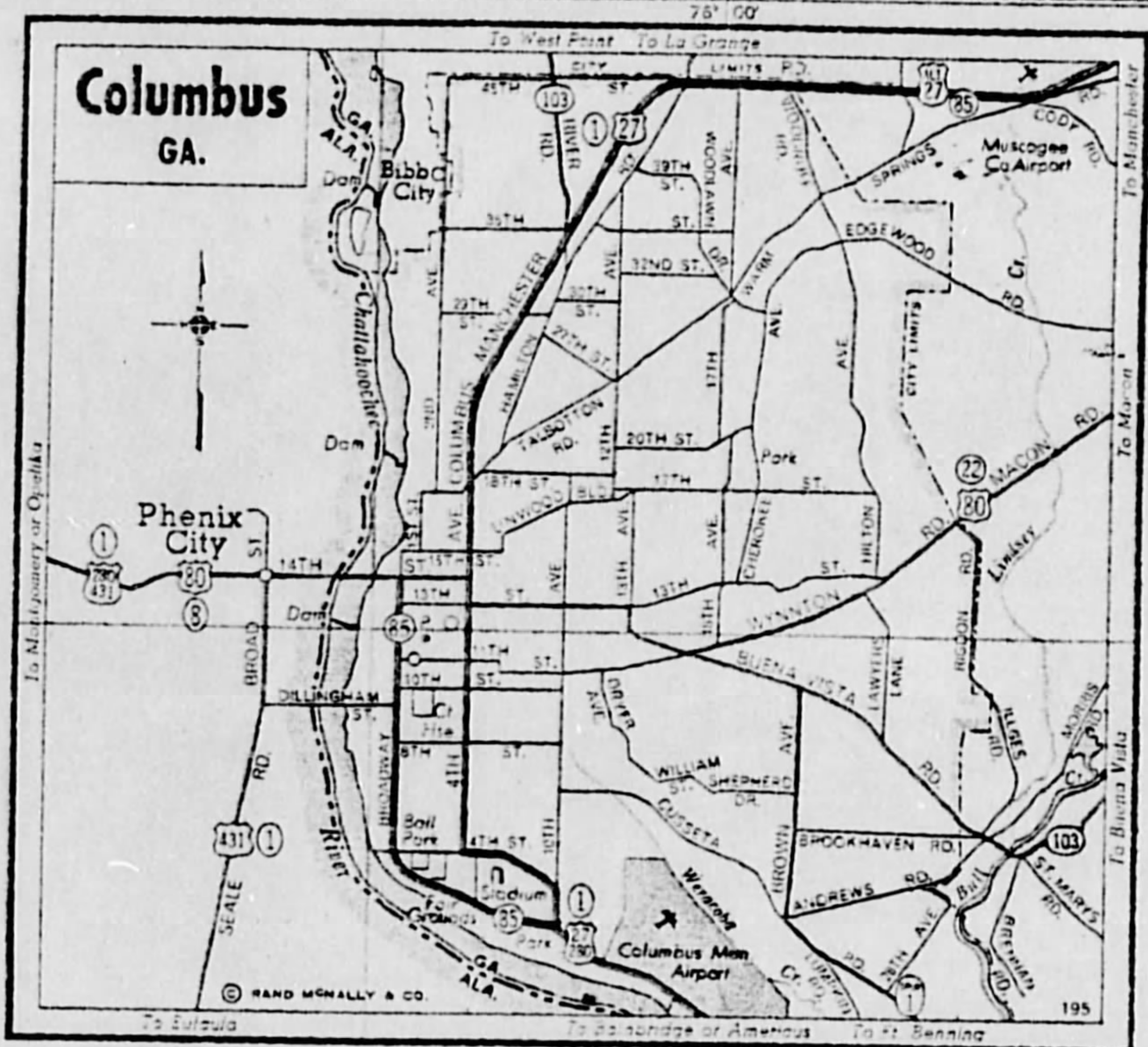
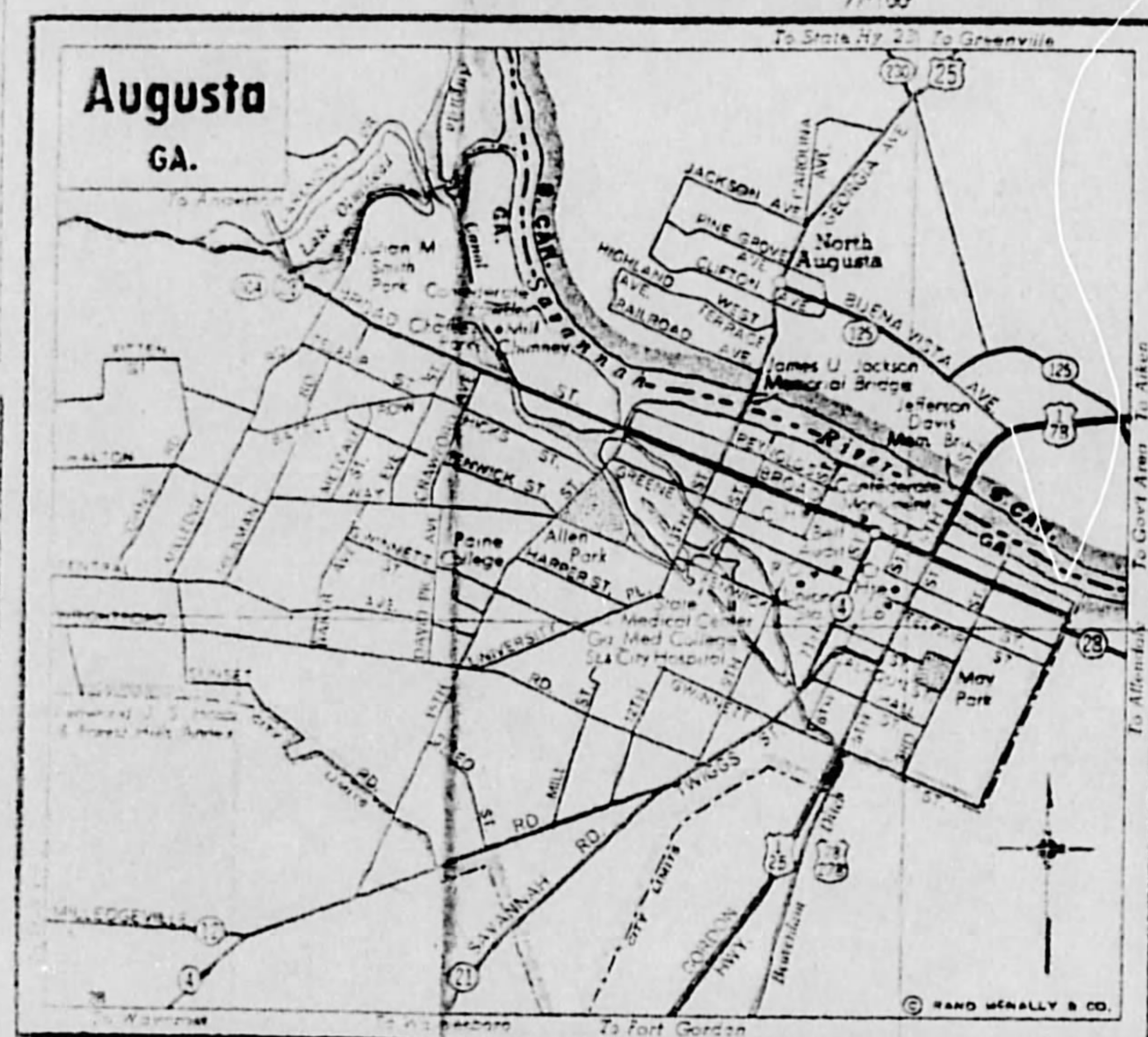
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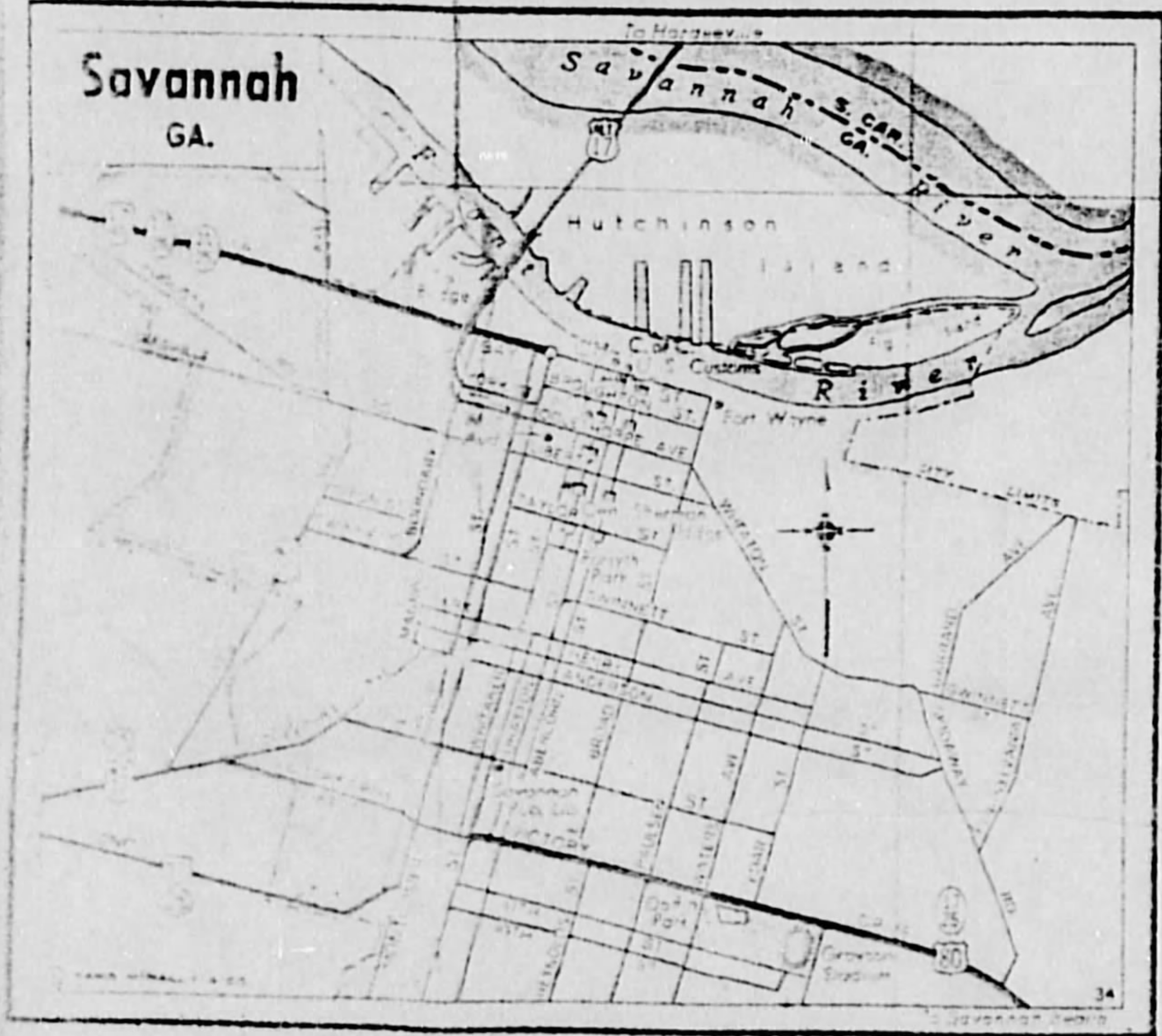
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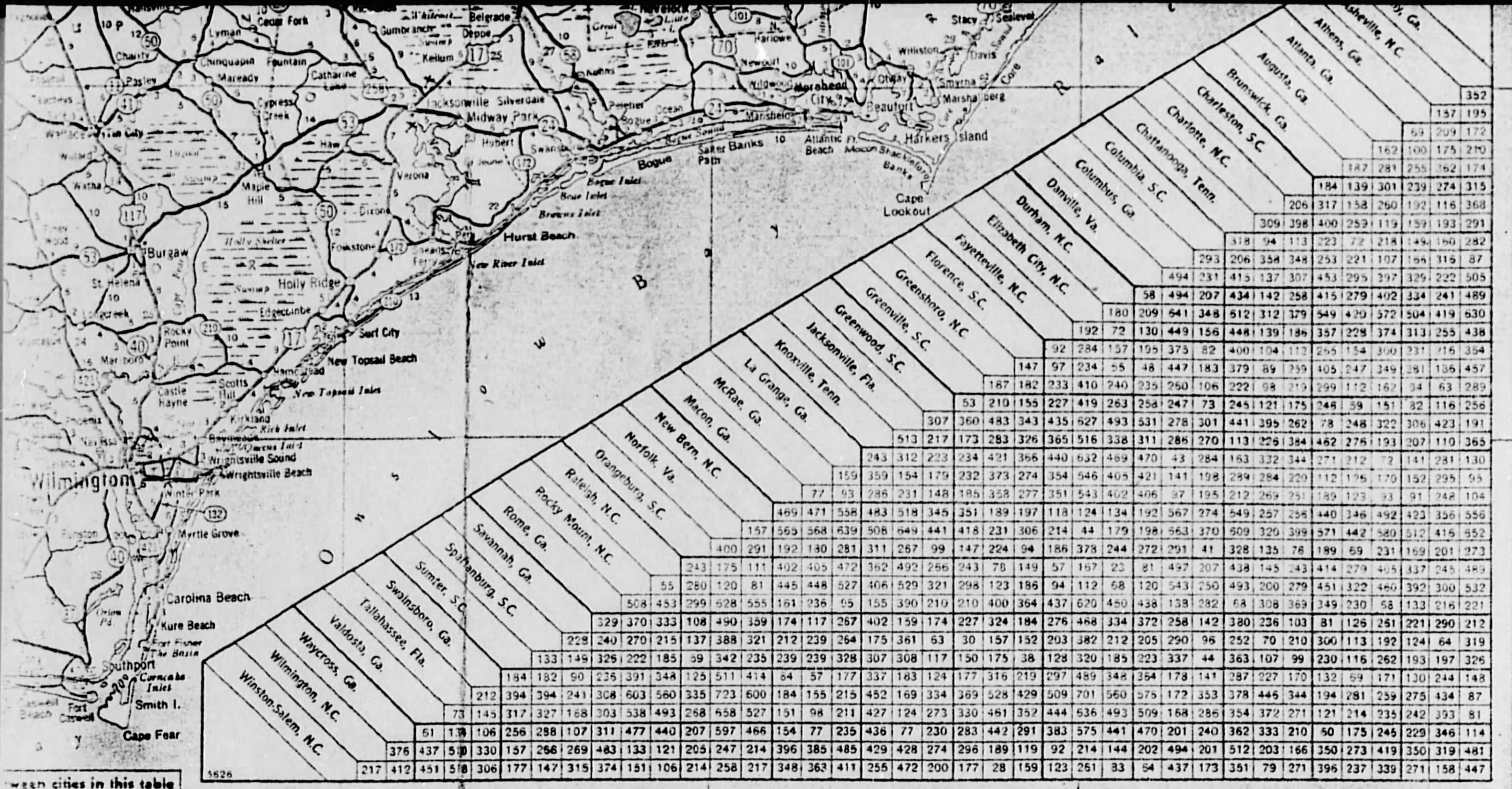


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between cities in this table
column under the name
order until it intersects
the second name. This
distance in miles between
the distance between
N. Car. is 207 miles.

CAROLINA
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shown in red.
shortest routes.

U.S. Interstate Highways
shown in red.
ALT. = Alternate
BYP. = Bypass

State Highways
shown in black.

Florida and Virginia
Secondary State Highways
shown in black.

Points of Interest
shown in black.

Colleges
shown in black.

Campsites
shown in black.

Public Airports
shown in black.

Mileage shown between
towns and junctions
shown in black.

Accumulated mileage
shown between stars
shown in black.

Ferries and Boatlines
shown in black.

State Capitals
shown in black.

County Seats
shown in black.

Unlisted
shown in black.

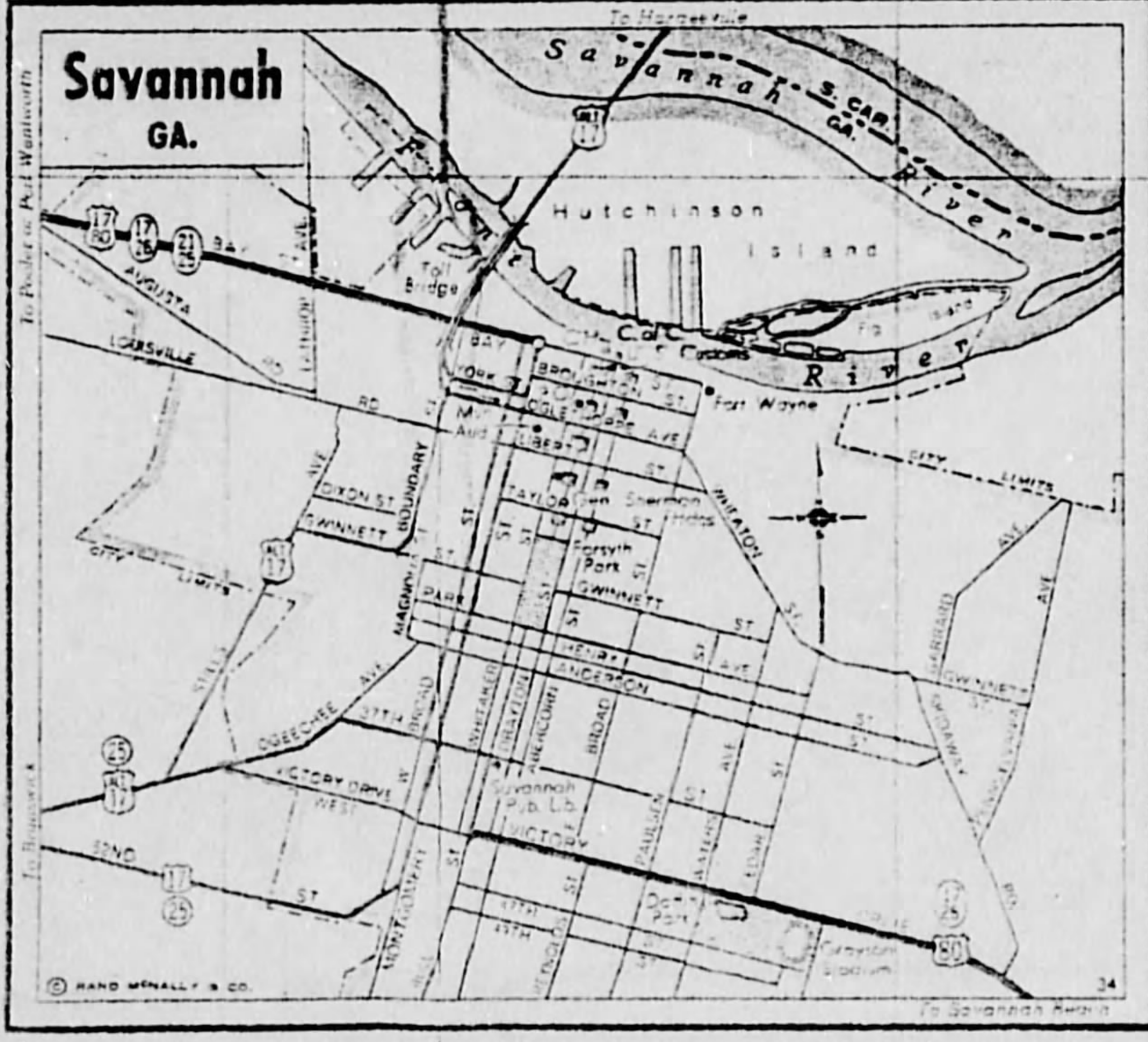
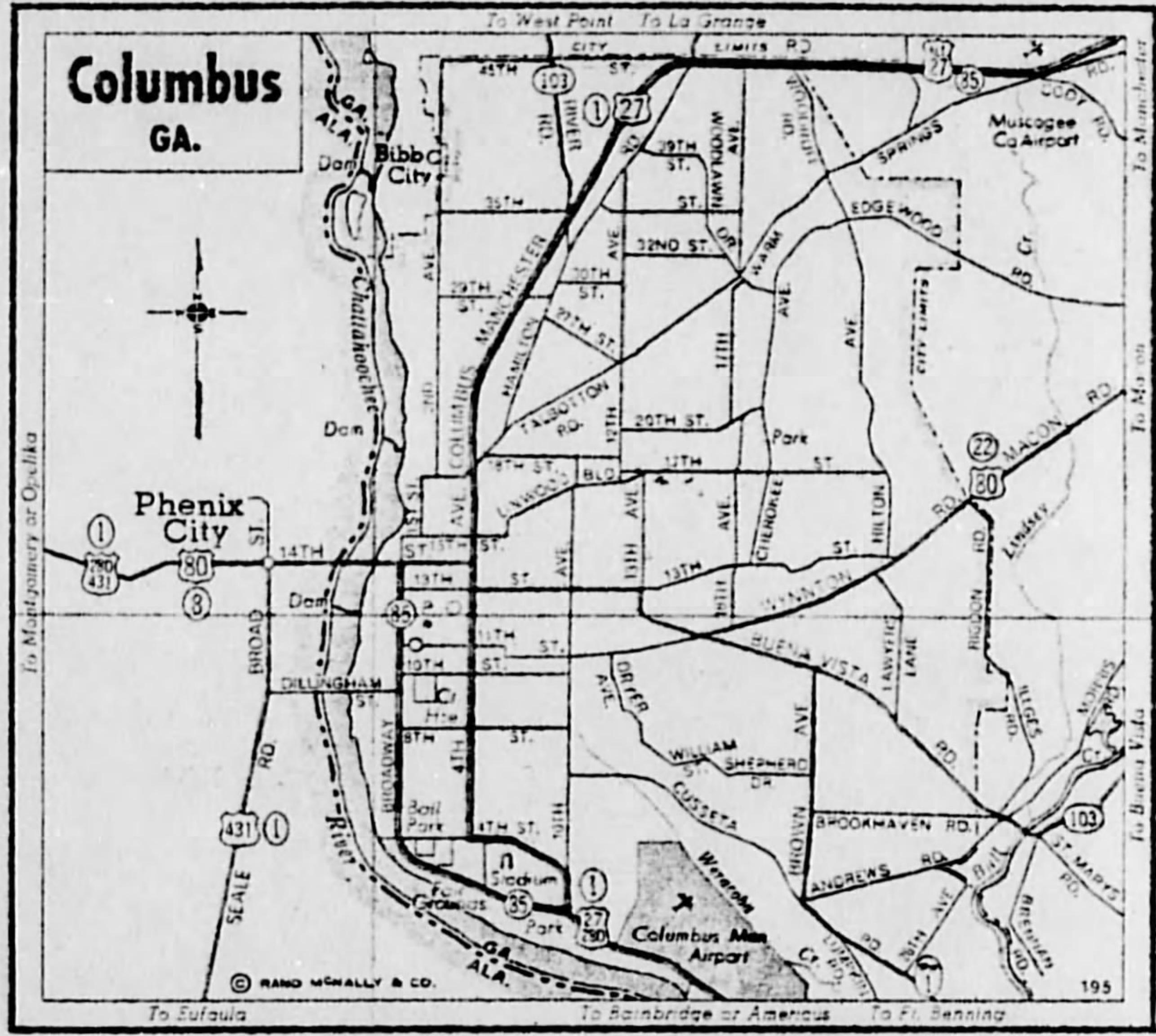
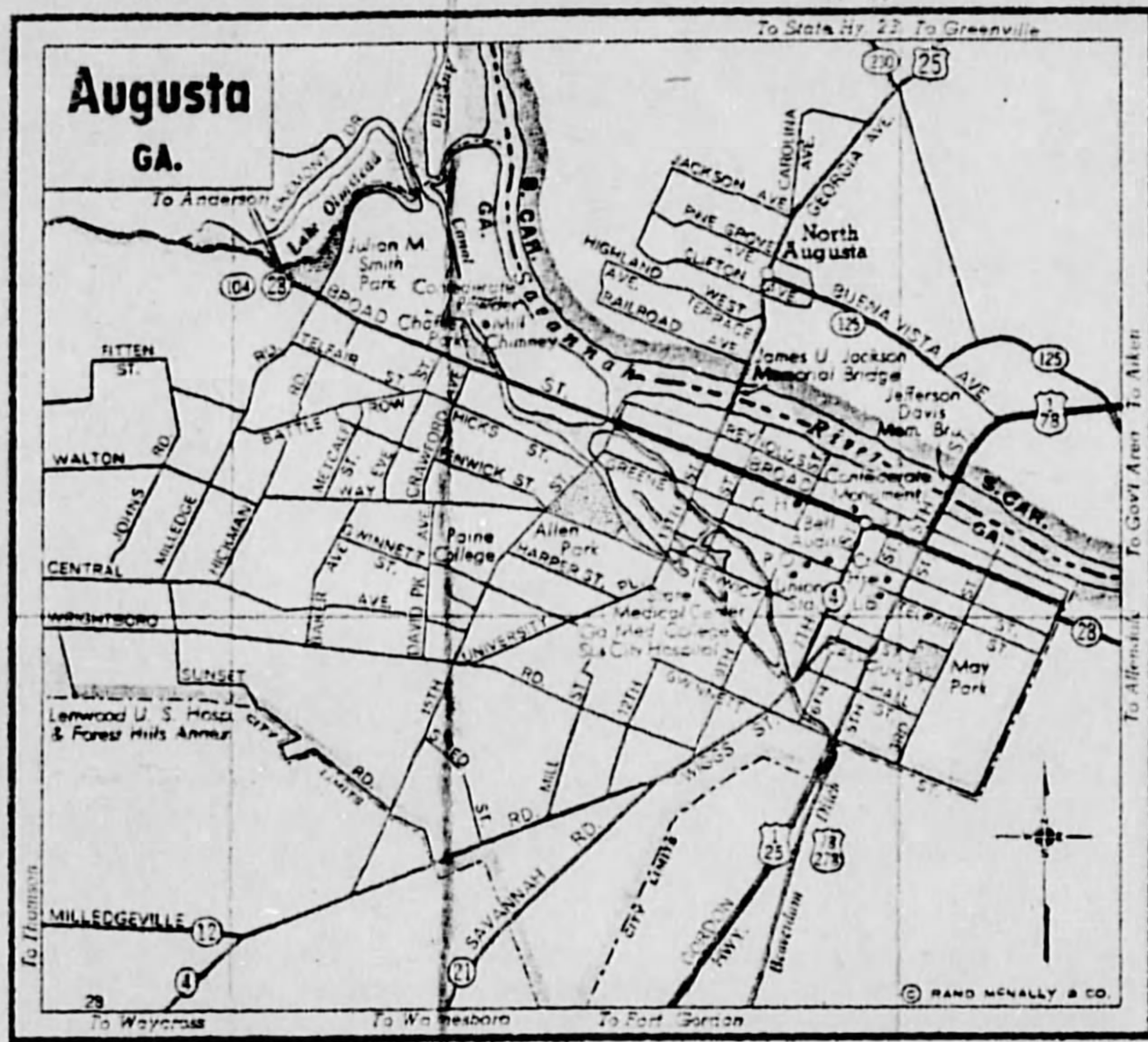
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