

ROBERT A. JONES
CONSULTING ENGINEERS
613 SOUTH LA GRANGE ROAD
LA GRANGE, ILLINOIS 60525

ROBERT A. JONES P.E.
PETER L. THORPE

h. i. 7. 2
AFFILIATE
HOWARD L. ENSTROM
(312) 352-2275

September 9, 1981

Mr. John Morgan
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

Dear Mr. Morgan:

This letter is to bring you up to date as to the status of the sixteen mutually exclusive FM Educational Stations.

On September 8, 1981 a meeting was held at Northeastern University Campus (WZRD). Present were representatives of WLTL, WZRD, WRSE, WUIC, WHPK, WOU1, WMTH, WMWA, WCYC, WRRG, WARG and WGHS. In addition to myself, was Mr. Ed. Perry. Not present but represented were WNTH and WBHI.

General assumptions were made by the group which I take full responsibility for, if I have not repeated them exactly. 1) As a group we believe the WSSD application is unacceptable and cannot be granted. Repeated efforts by several of the stations have failed to reach anybody at WSSD, or to sense any cooperative spirit. 2) The group has been told by representatives of WLWU that they were "going their own way." They, like WSSD were invited to this meeting. No one came.

It was generally agreed that WLTL would reduce its DA in order to protect WNTH and WUIC. If WSSD is ignored, this leaves only the second channel overlap to WHSD. Said overlap would effect less than 5% of each station's service area and would be acceptable to both schools.

Mr. John Morgan
September 9, 1981
Page 2

It was generally agreed that WNTH could accept a slight second channel overlap from WZRD, could ignore WSSD, and would have probably no problem from WMWA operating on Channel 203. ✓

It was generally agreed that WUIC could increase power if a very simple DA were used to protect WLTL and WNTH. Its problem with WHPK would be solved by WHPK moving to 203. ✓ It too would ignore WSSD. Any interference to and from WZRD would be less than 5% and could be agreed upon by both parties.

It was generally agreed that WZRD would stay with a power of 100 watts ND and seek a waiver of interference from WNTH, WMWA and WUIC. WZRD's problems with WHPK and WMTH would be resolved by each of those stations moving frequency. ?

It was generally agreed that WHPK would move to Channel 203 from Channel 202. This resolves its problems with WUIC, WZRD. The interference to WOUI would be less than 5%. The only new problem is that on 203 WHPK interferes with WBHI. WBHI has indicated a willingness to change to 90.5 mHz. WHPK would be 100 watts ND. ?

It was generally agreed that WMWA would amend its application from 2.5 kw to 100 watts on Channel 203. With the reduced power there is not expected to be a problem with WNTH. The problem with WMTH would be solved by WMTH moving to 90.5 mHz. The interference to and from WZRD is believed to effect 5% or less. There is an unknown as to the impact upon WLUW. If WLUW were 100 watts or less the impact would be marginal. ?

It was generally agreed that WHSD could accept the interference to and from WLTL as being less than 5%. Its problems with WRSE could be resolved by WRSE employing a directional antenna beamed to the north. ✓

It was generally agreed that WRSE could resolve its problems with WHSD by using a DA. This would also resolve its problems with WCYC who has decided to remain at 10 watts. This also resolves any question of a problem to WARG. The overlap to WRRG could not be fully eliminated, but if WRRG also uses a DA the mutual interference area would be reduced to under 5%. ?

Mr. John Morgan
September 9, 1981
Page 3

It was generally agreed that WOUI would remain at 10 watts on Channel 205. ✓

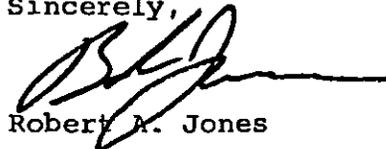
It was generally agreed that WARG would remain as it is. ✓
Since its problems with WCYC and WOUI would be eliminated,
and only its problem with WRRG would remain. Its problem
with WRSE would be corrected by WRSE's shift to a DA.

The final station of the group is WRRG. Its problems
with WOUI are resolved. Its problem with WCYC (at 10 watts),
WARG and WRSE could only be solved by changing to a DA
northward. WRRG indicated it was going to study its overlaps
first to determine if their magnitude could be waived.

In summary, I believe we have come to a solution that
will allow almost every station some major improvements, or
will adequately protect its present operation. Some waiver
of received overlaps may have to be requested, and some waiver
or conditional grants of the I.F. problem made. It is my
understanding that those stations represented by myself will
file their necessary amendments within two weeks. And that
those stations represented by Mr. Perry will file before
October 31, 1981.

The Commission's patience and indulgence is greatly
appreciated in these matters.

Sincerely,



Robert A. Jones

RAJ:pk

cc: WMTH, WLWU, WCYC, WMWA, WBHI, WRRG, WRSE, WZRD, WHPK,
WUIC, WNTH, WLTL, WARG, WHSD, Mr. Perry.

STUDY OF CHICAGO EDUCATIONAL-FM

1. WLTL Problems with co-channel to WNTH, WUIC, WSSD.
 - A) we protect all existing!
 - B) power reduction would resolve our overlap to WNTH, but not to WUIC.
 - C) no way to eliminate our received overlap from WUIC or WSSD.
 - D) problem with Hinsdale is on a 10:1 basis (ask for waiver)

2. WNTH Problem with co-channel WUIC, WLTL and WSSD.
 - A) DA north will resolve overlap to WUIC and WNTH.
 - B) nothing can be done to resolve WSSD overlap.
 - C) DA north can resolve adjacent channel with WZRD existing.
 - D) no problem with WMWA existing, but on 203 interference is caused to them around our tower site.

3. WUIC Problems co-channel with WLTL, WNTH and WSSD.
 - A) reduction in power to west and north resolves WLTL and WNTH problems.
 - B) nothing can be done to resolve WSSD problem.
 - C) reduction in power to north also resolves overlap to WZRD existing.
 - D) reduction in power to south can resolve overlap to WHPK existing.

R.
1-1-70
W. J. Jones

4. WSSD Co-channel overlaps to WLTL, WUIC, WNTH, WLRA and WETN.
Latter two are already over 100 watts and must be protected.
 - A) power reduction will eliminate overlaps to WBHI.
 - B) if WSSD would employ a DA to south to protect WLTL and WUIC, they could have 5 kw.
5. WBHI Only problem is with WSSD, according to FCC. It appears they overlap WHSD?
 - A) DA existing south will resolve possible overlap to WHSD.
6. WHSD There are no co-channel problems, according to the FCC.
 - A) received overlap from WBHI cannot be eliminated.
 - B) adjacent channel overlap to WRSE can be resolved by a change in DA to south.
 - C) problem with WLTL is very slight and should be waived.
7. WRSE Only co-channel problem is to WCYC.
 - A) DA to north could resolve overlap caused to WCYC.
 - B) DA would also resolve overlap to WHSD.
 - C) I do not find any overlap to WARG.
 - D) there is an overlap to WRRG. Existing WRRG could be protected with a DA.
8. WARG Co-channel overlap to WRRG and WOUI.
 - A) if WRRG would go DA this could be eliminated.
 - B) WARG protects WCYC existing. Change in DA might protect proposed (?).
 - C) it is not obvious why FCC says there is an overlap to either WRSE or WOUI?

9. WOUJ Co-channel problems to WARG and WRRG.
- A) overlap to WHPK is small and should be waived.
 - B) overlap to WCYC is heavy and should be waived.
10. WRRG Co-channel problems with WARG.
- A) DA east or north could resolve overlap to WARG.
 - B) not obvious why FCC claims overlap to WOUJ?
 - C) DA would resolve overlap to WRSE (not shown).
 - D) overlap to WCYC is minor and could be waived.
11. WCYC Co-channel to WRSE and WLUW.
- A) DA to west and north could protect these.
 - B) not clear why FCC says overlap to WRRG? or WOUJ?
 - C) DA would protect WARG.
12. WLUW Co-channel to WCYC. *out with on 203*
- A) DA north could protect WCYC.
 - B) no way to protect WMWA on 203, unless they reduce power.
13. WMWA Co-channel (203) wipes out WMTH, WLUW, WHSD and WBHI.
- A) no way to resolve overlaps caused to WZRD, WNTH, WMTH or WRRG.
 - B) best hope might be to find some other channel.
14. WMTH Co-channel overlaps to WLUW and WRSE and WMWA.problem.
- A) why FCC did not show overlap to WRSE is not known.
 - B) no way to resolve the WMWA problem.
 - C) overlap to WLUW and WZRD can be resolved with a DA to the northwest.

15. WZRD Co-channel problems to nobody.

- A) I disagree with claims of overlap to and from WHPK.
- B) no way to resolve overlap to WMWA.
- C) DA east would resolve WMTH overlap.
- D) DA south would resolve WNTH overlap.
- E) DA east would resolve WUIC overlap.
- F) why overlap to WLUW is not shown by FCC is not known, this is very small and could be waived.

16. WHPK Co-channel overlap claimed to WZRD?

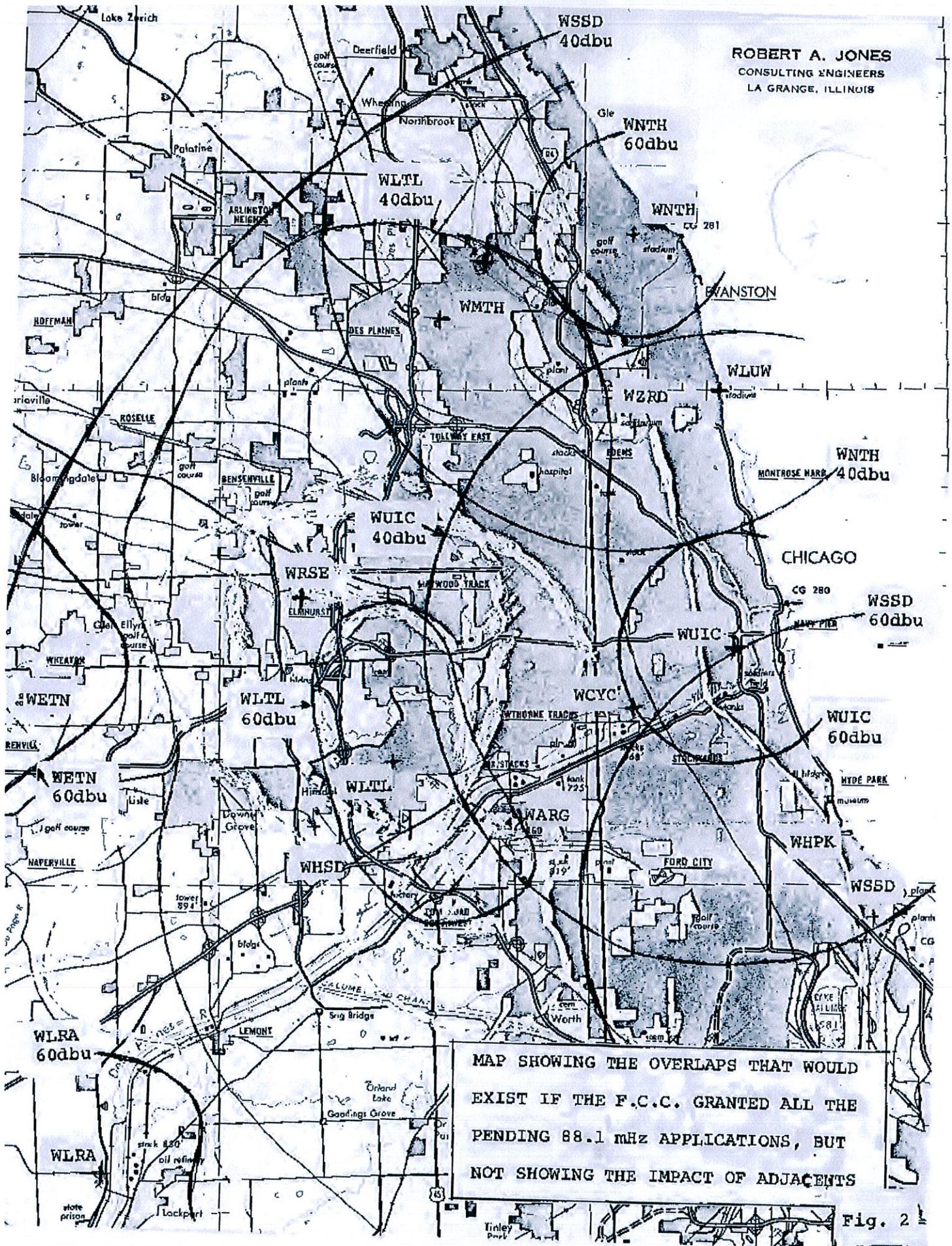
- A) overlap to WUIC can be resolved by use of DA to east.
- B) overlap to WSSD existing but is not claimed by FCC? also overlap to WBHI, but this is not claimed?
- C) overlap to WOUI is very slight and could be waived.
- D) DA eastward would resolve all problems except WSSD, but do not recommend as it gains no coverage.

EXISTING ALLOCATIONS

<u>CHANNEL</u>	<u>CALL</u>	<u>EXISTING</u>	<u>PROPOSED</u>
201	WLTL -	0.01kw	0.2kw 139' DA
	WUIC -	0.01	0.1 129'
	WSSD	0.01	5.06kw 129'
	WNTH -	0.01	0.1 83'
202	WZRD	0.01	0.1 71'
	WHPK	0.01	0.1 123'
203	WBHI	0.01	0.1 55'
	WMWA	0.01	2.5 101'
	WHSD	0.01	0.125 131'
	WMTH	0.01	0.1 103'
204	W RSC	0.01	0.1
	WCRYC	0.01	0.1 71'
	WLDW	0.01	0.1 218'
205	WRRG	0.01	0.1 127'
	WARG	0.01	0.5 83'
	W MWA	0.01	

WSSD
HARRIS
MAY 17

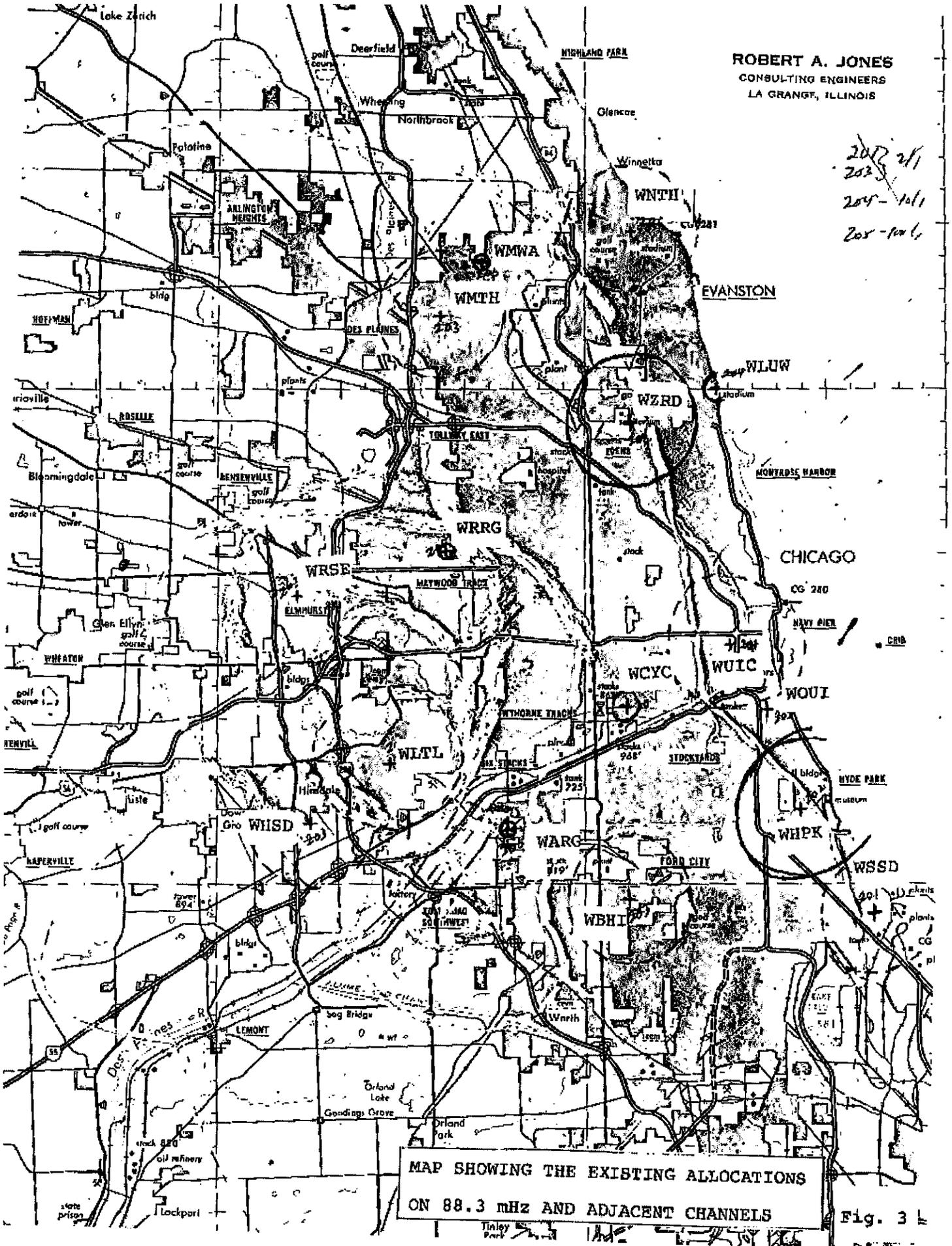
ROBERT A. JONES
CONSULTING ENGINEERS
LA GRANGE, ILLINOIS



MAP SHOWING THE OVERLAPS THAT WOULD EXIST IF THE F.C.C. GRANTED ALL THE PENDING 88.1 MHz APPLICATIONS, BUT NOT SHOWING THE IMPACT OF ADJACENTS

Fig. 2

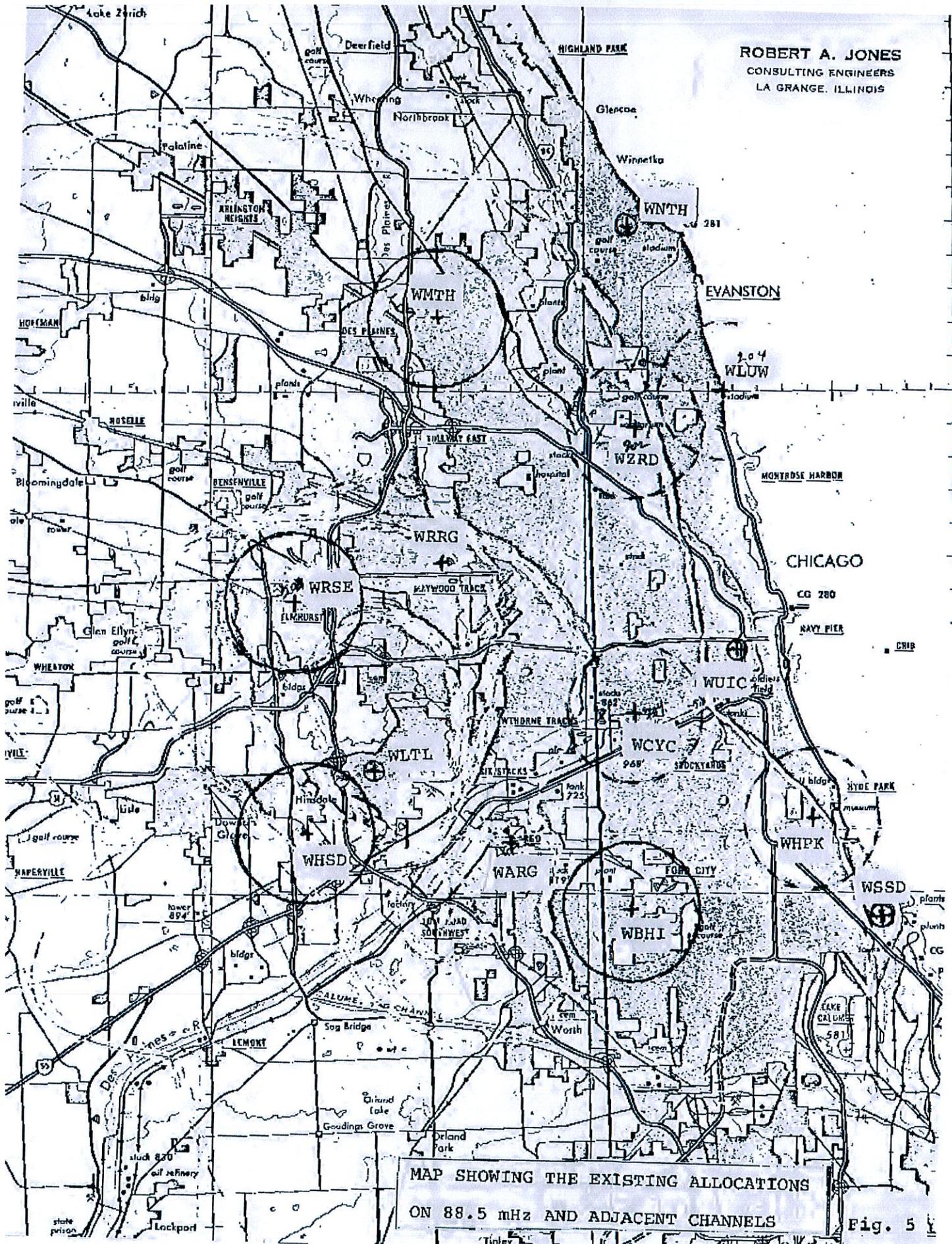
2012 2/1
203
204-101
205-101



MAP SHOWING THE EXISTING ALLOCATIONS
ON 88.3 MHz AND ADJACENT CHANNELS

Fig. 3

ROBERT A. JONES
CONSULTING ENGINEERS
LA GRANGE, ILLINOIS



MAP SHOWING THE EXISTING ALLOCATIONS
ON 88.5 MHz AND ADJACENT CHANNELS

Fig. 5

ROBERT A. JONES
CONSULTING ENGINEERS
LA GRANGE, ILLINOIS

*Case
WPSB*

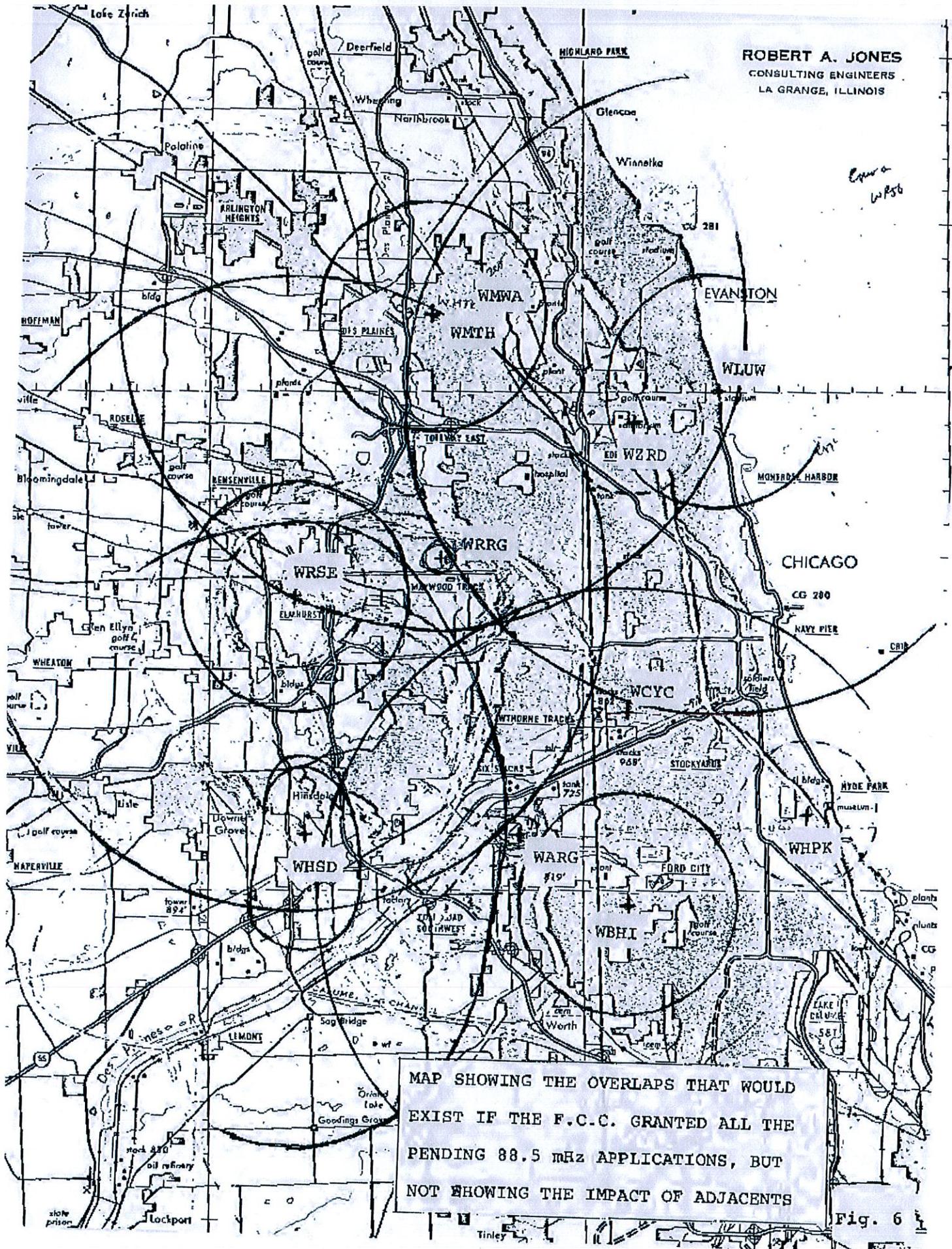
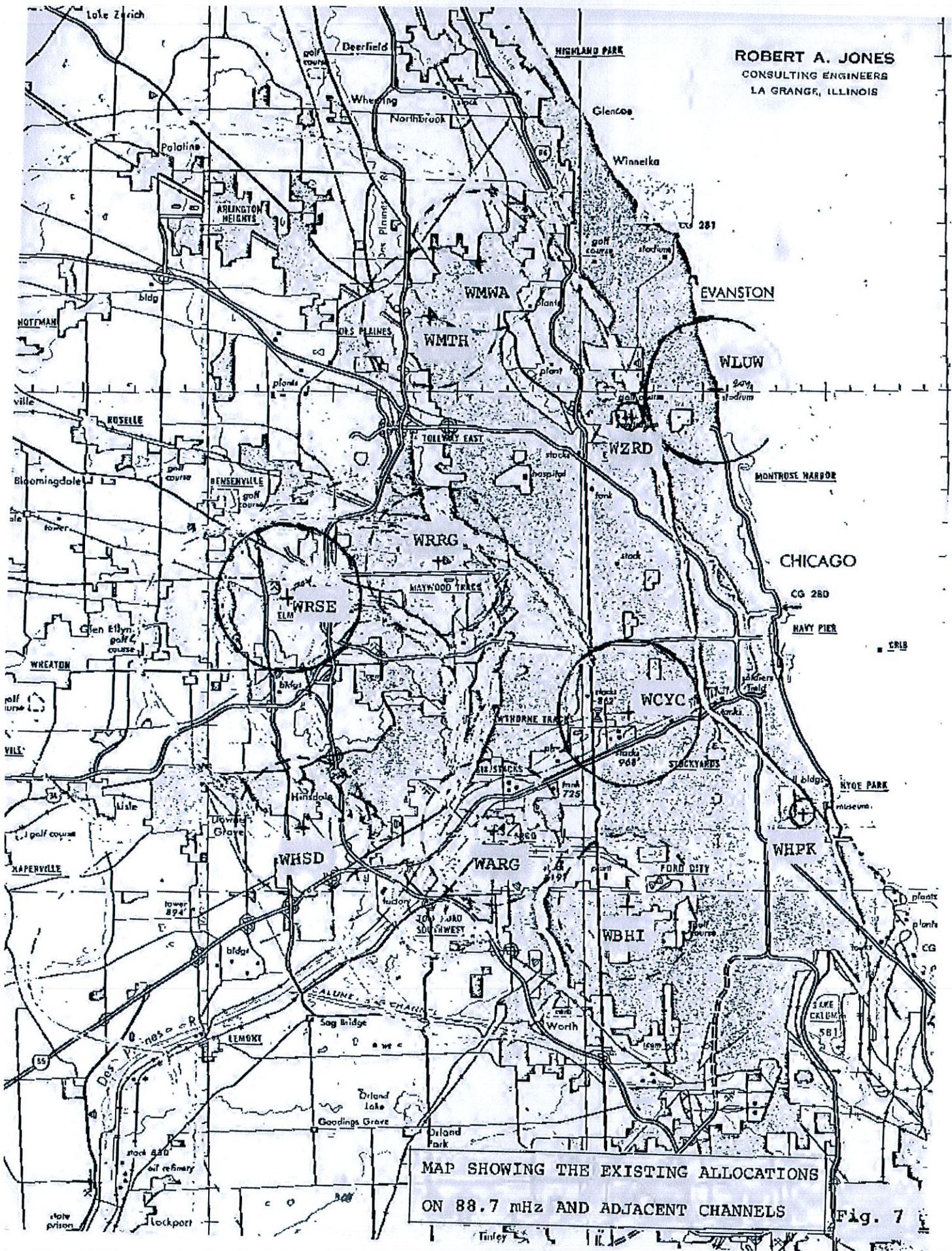


Fig. 6

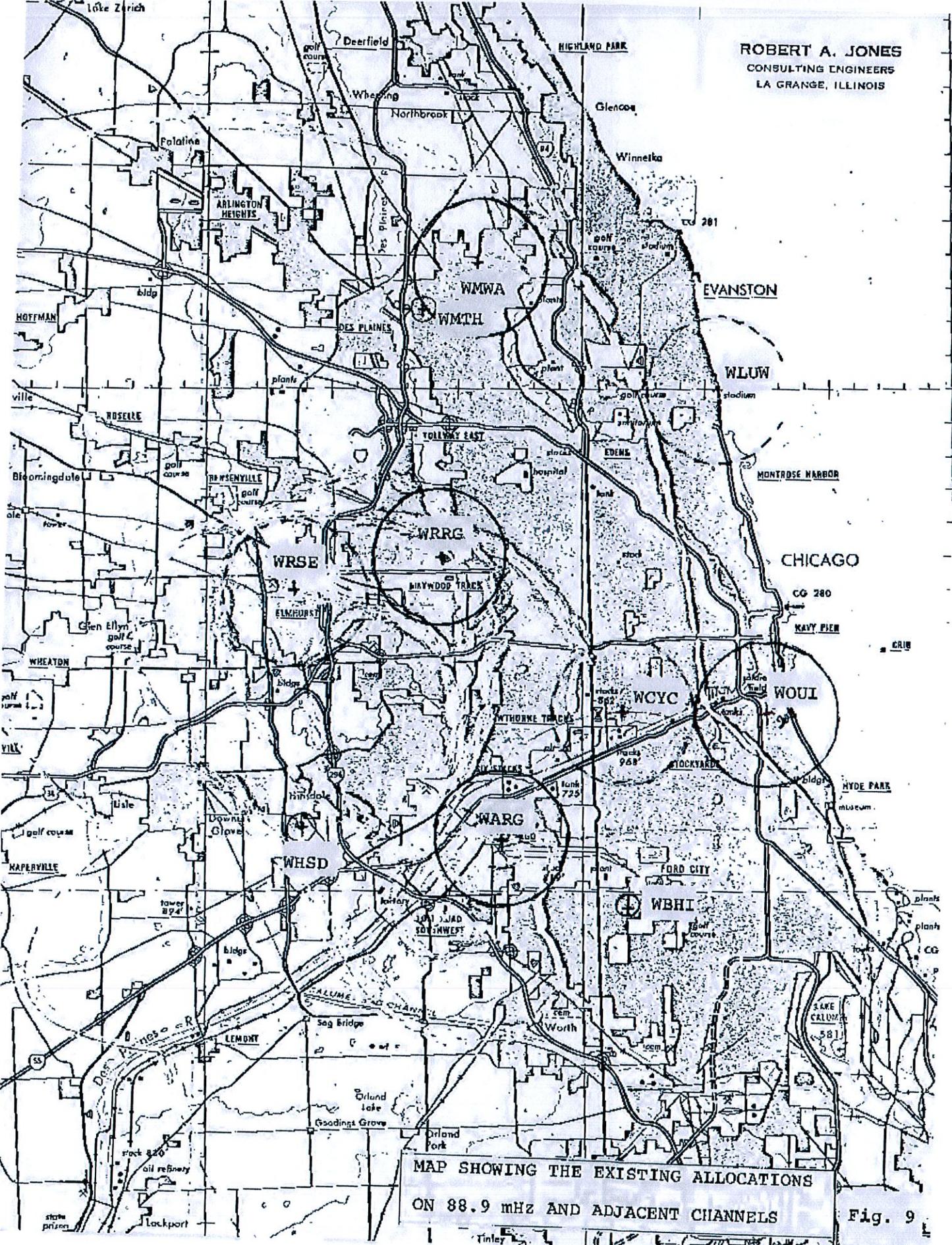
ROBERT A. JONES
CONSULTING ENGINEERS
LA GRANGE, ILLINOIS



MAP SHOWING THE EXISTING ALLOCATIONS
ON 88.7 MHz AND ADJACENT CHANNELS

Fig. 7

ROBERT A. JONES
CONSULTING ENGINEERS
LA GRANGE, ILLINOIS



MAP SHOWING THE EXISTING ALLOCATIONS
ON 88.9 MHz AND ADJACENT CHANNELS

Fig. 9

