

WAHS-FM
89.5 MHz
Avondale School District
Auburn Hills, MI

Exhibit – 16

73.509 - Contour Overlap Requirements

W208BB:

In this proposal, WAHS will have an overlap with W208BB Royal Oak, Michigan, as shown in Exhibit – 16B. W208BB is a class D Secondary translator that is co-channel with WAHS. There are two interference zones. The more northerly interference zone shows the interference received by WAHS. The more southerly interference zone shows the interference caused by WAHS. In this case, we request that W208BB follow procedures found in section 73.512 to reduce the interference received by WAHS or find a new channel to operate on.

WBLD-FM

WAHS is first adjacent with WBLD in Orchard Lake, Michigan. WBLD is a class D Secondary station. Exhibit – 16C shows that WBLD will receive a small amount of interference to their 60dBu contour from WAHS. WAHS will receive a very small amount of overlap (about 0.5 km) to the 60 dBu contour from WBLD. In this case, we request to operate short spaced with these conditions under a waiver of section 73.509 and in accordance to 73.512.

The actual interference should be minimum in both cases. Due to advancements in receiver technology in recent years, the actual adjacent channel interference received will be minimized. Most consumer electronics, such as home stereo receivers, automobile receivers and many portable receivers use digital syntheses, which is referenced to a quartz crystal. This eliminates problems such as AFC (Automatic Frequency Control) capture that was present in most older technology receivers. However, some older technology receivers may still experience this problem. But, newer technology receivers have mostly replaced them.

WCMU-FM

WAHS is Co-channel with WCMU in Mount Pleasant, Michigan. WCMU is a class C1 station. Exhibit – 16D shows the coverage predictions for the two stations apposing contours. There is no overlap in apposing contours. Also note, since the HAAT of WAHS in the direction the direction of WCMU is less than 30 meters and that contours shown assume a minimum of HAAT of 30 meters, the contours of WAHS are the maximum worse case condition. The actual contour will be somewhat reduced.

WOVI-FM

WAHS is Co-channel with WOVI in Novi, Michigan. WOVI is a Class A station. Exhibit – 16E shows the coverage predictions for the two stations apposing contours. There is no overlap in apposing contours.

WWKM-FM (licensed) & WPHS-FM

Both WWKM-FM (licensed) and WPHS-FM are class A stations assigned to 89.1 MHz, second adjacent to WAHS. Exhibit – 16F shows the opposing contours. There is no overlap in opposing contours.

WWKM-FM (CP)

WWKM-FM (CP) is third adjacent with WAHS. WWKM-FM (CP) is class A facility assigned to 89.9 MHz Exhibit – 16G shows the opposing contours. The contours meet. However, there is no overlap in opposing contours.

WTAC-FM (CP)

WTAC-FM (CP) is first adjacent with WAHS. WTAC-FM (CP) is class B1 facility assigned to 89.7 MHz Exhibit – 16H shows the opposing contours. There is no overlap in opposing contours.

EXHIBIT – 16A1

10.7 MHz (10.6 MHz & 10.8 MHz) INTERMEDIATE FREQUENCY INTERFERENCE Section 73.207(b)(1)

This section concerns station(s) separated by 10.6 MHz or 10.8 MHz

A search for a station with a frequency of 100.1 MHz and 101.3 MHz revealed no conflicting station(s) within the range indicated in 73.207.

The nearest station on one of these two frequencies is WNIC in Detroit, Michigan on 100.3 MHz. WNIC transmitter site is located 27.42 KM from the WAHS proposed transmitter site. WNIC is a Class B station. In this case, the minimum required separation is 14 KM for Class A to Class B station separation.

In any case, there are no stations within the minimum separation area.

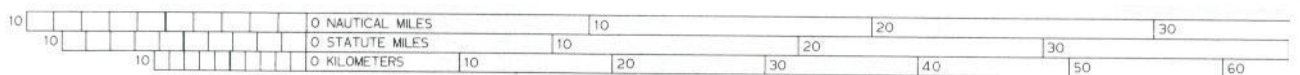
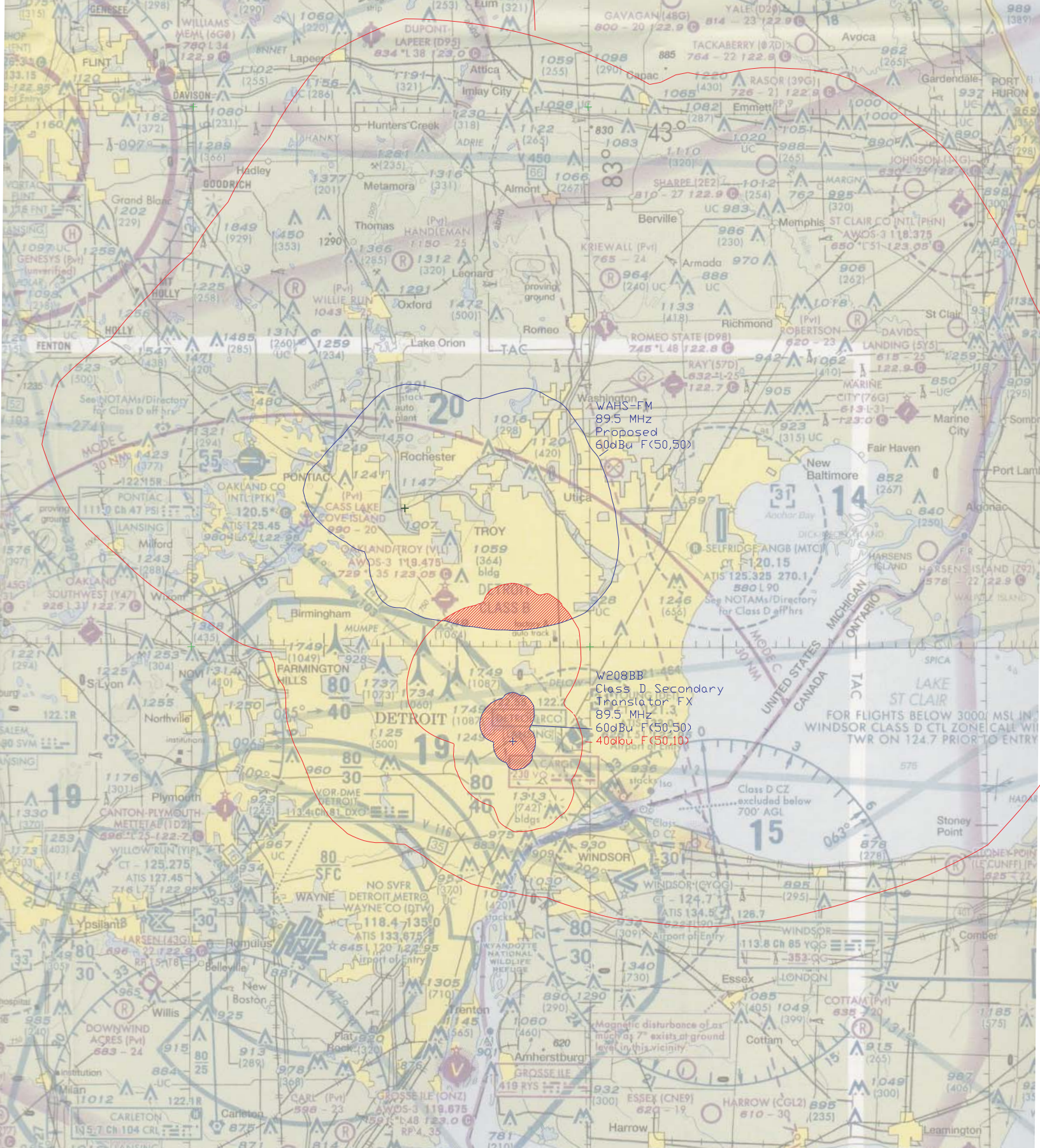


Exhibit - 16B

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W208BB-FX
Co-Channel

Keith Fraley

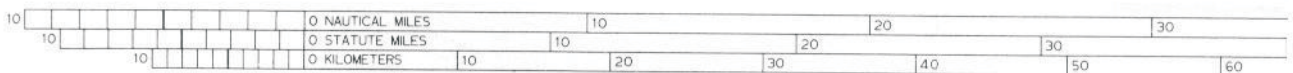


Exhibit - 16C

WAHS-FM
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WBLD-FM
First Adjacent
Keith Fraley



Exhibit - 16D

WAHS-FM
89.5 FM Auburn Hills, MI
Avondale School District

WCMU-FM
Co-Channel
Keith Fraley

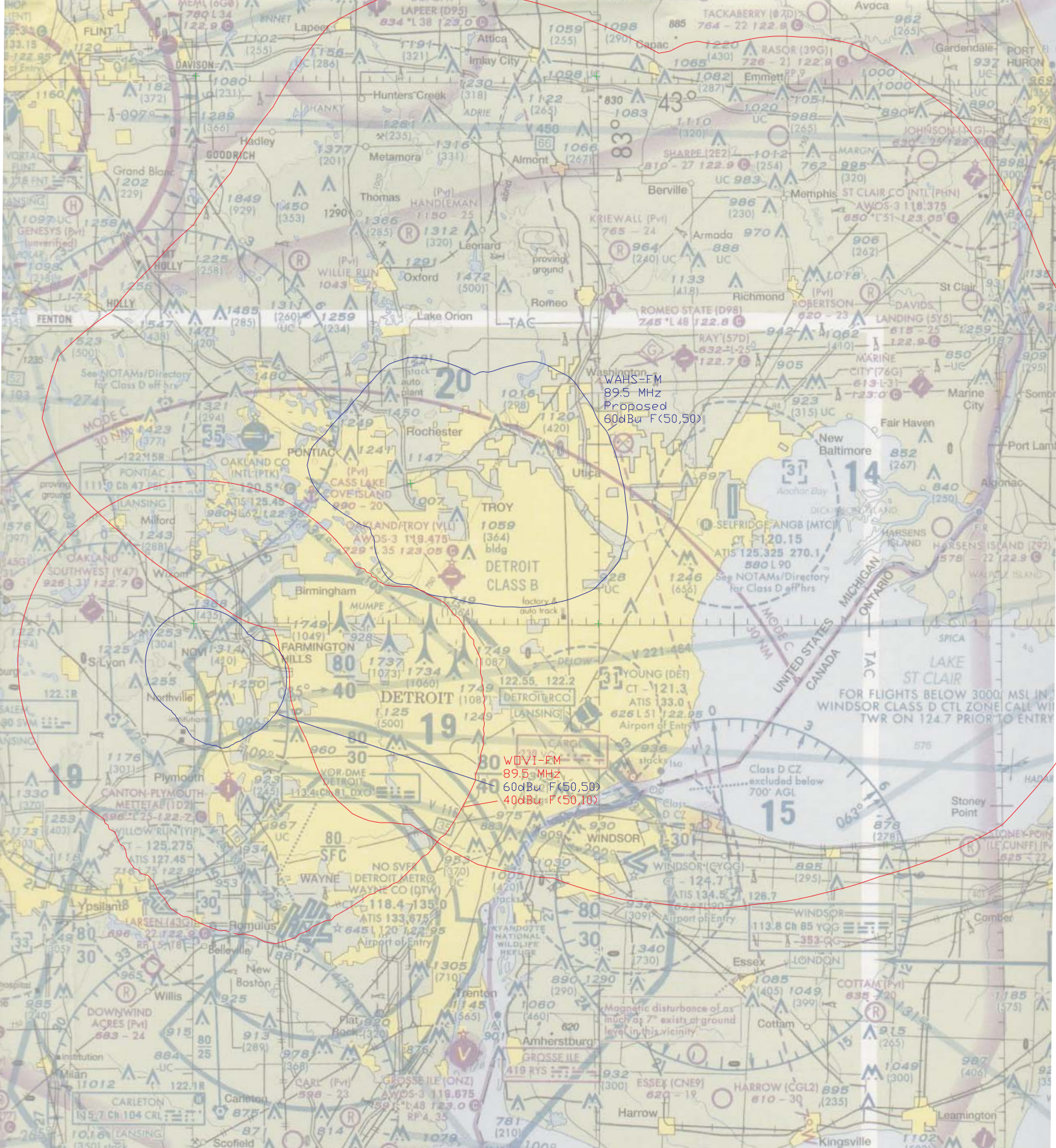


Exhibit - 16E

WAHS-FM
89.5 FM Auburn Hills, MI
Avondale School District

WQVI-FM
Co-Channel
Keith Fraley

