

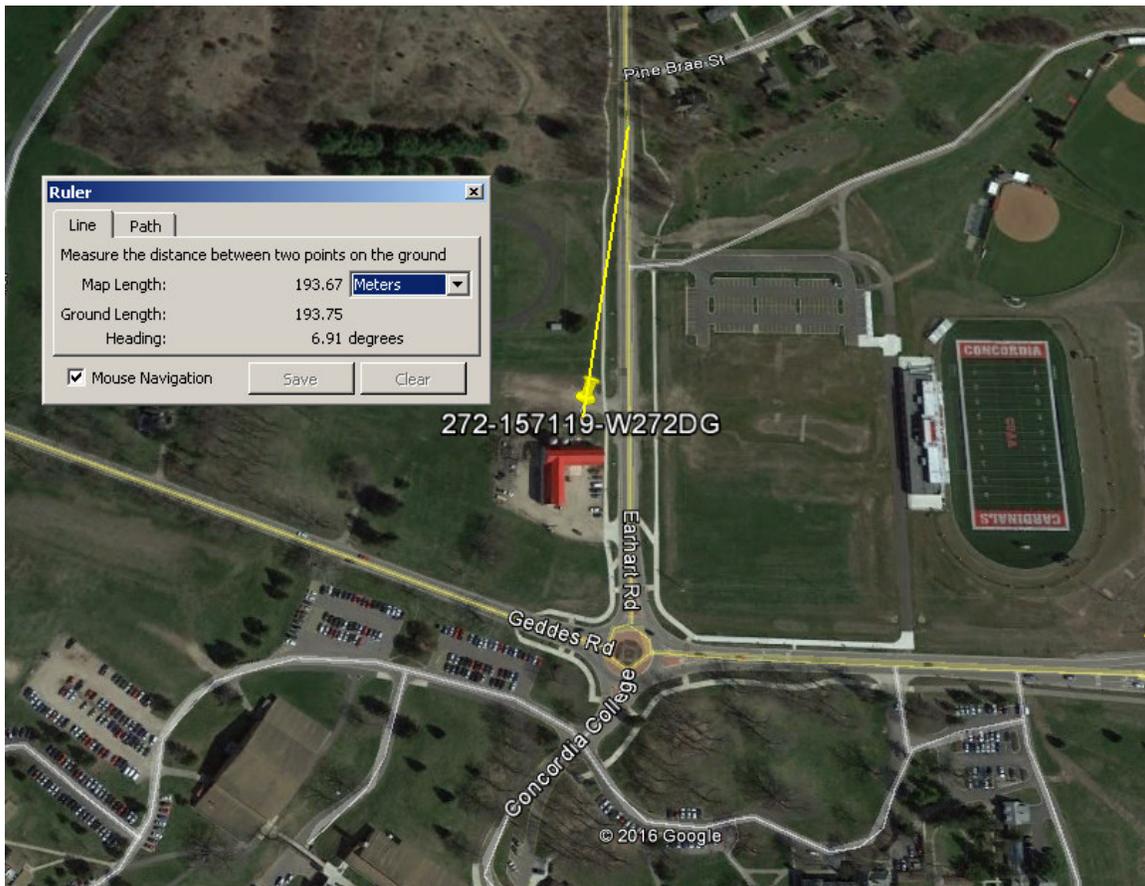
U/D Considerations

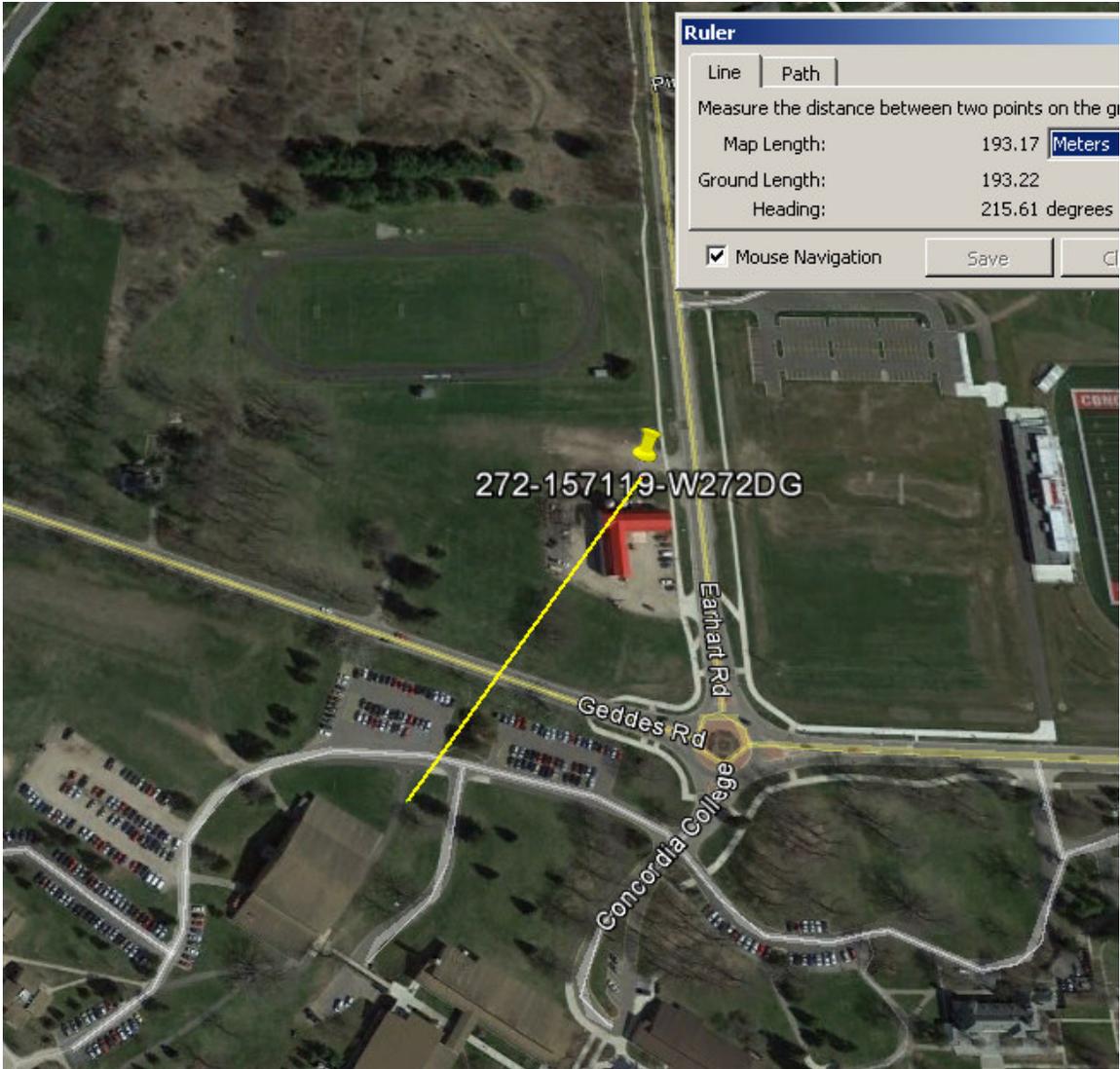
The proposed facility provides contour protection to all existing stations with the exception of facility ID 71189 (channel 270). This station is second adjacent to the proposed translator. A U/D study will show that no interference will be caused to this station.

The signal strength of facility ID 71189 at the proposed site is more than 61.2 dBu. Using a U/D ratio of 40 dB for second/third adjacent protection, the 101.2 dBu contour of the proposal was studied. Attached below freespace distance to the 101.2 dBu contour. The 101.2 dBu contour extends 193 meters. The yellow line is measuring the distance to nearest structures.

From the freespace study it can be concluded that there is no occupied buildings, or 4-lane roads within 101.2 dBu contour. This application therefore fully meets the requirements of 74.1204(d) for a no-interference showing.

Note the red barn is an unoccupied storage building. The parked cars use the parking lot for nearby running track.





Ruler

Line Path

Measure the distance between two points on the g

Map Length: 193.17 Meters

Ground Length: 193.22

Heading: 215.61 degrees

Mouse Navigation Save C

Select Contour Type:

F(50,50) Service Contour -- FM and NTSC (analog) TV
F(50,10) Interfering Contour
F(50,90) Digital TV Service Contour

Select Channel Range:
(not TV Virtual Channel)

FM Radio or TV Transmit Channels 2-6
TV Transmit Channels 7-13
TV Transmit Channels 14-69

Find This:

Field Strength, given a Distance (in km)
Distance, Given a Field Strength (in dBu)
FM ERP, given Distance and Field Strength [F(50,50) Service Contour]

.01

ERP (kW)

Distance (km)

1

HAAT (meters)

101.2 Field (dBu)

Find Result

Clear Form

Results:

Calculated Distance = **0.193 km**

Free Space equation used to compute distance.

Entered HAAT is less than 30 meters; changed to 30 meters for calculations.