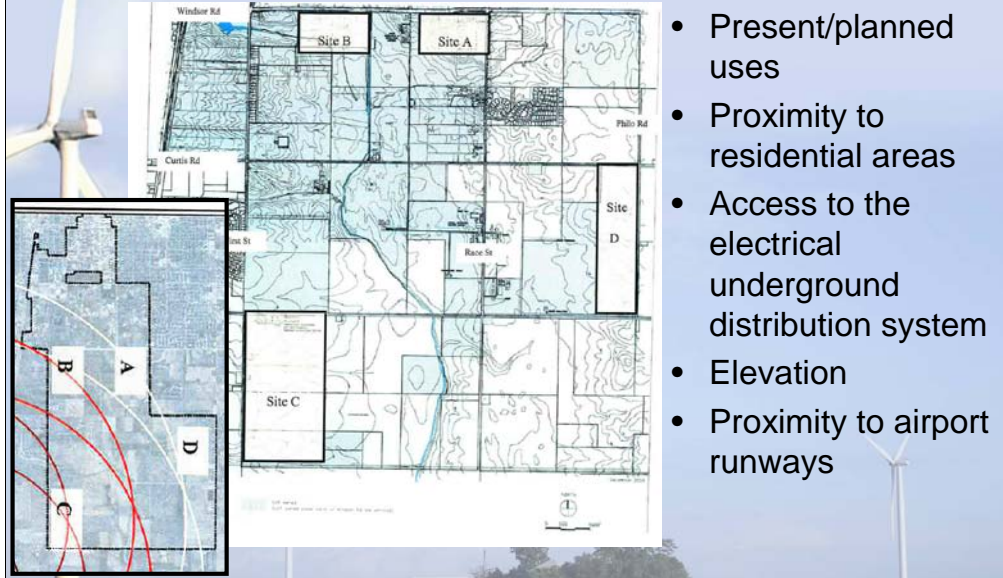
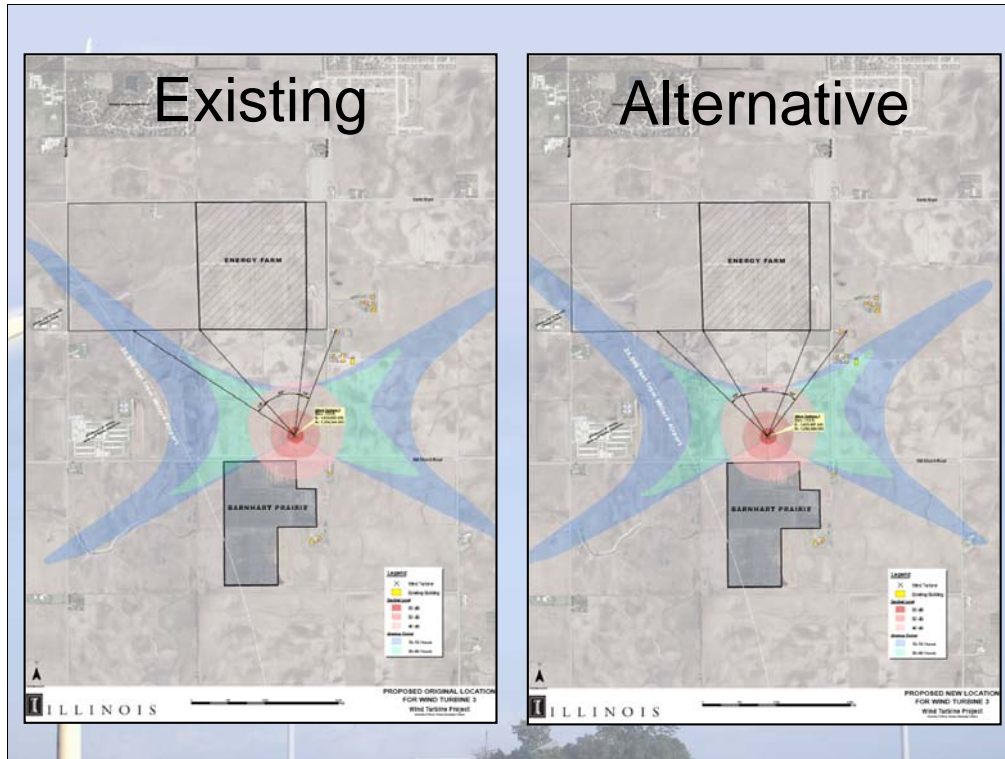


# Navigant Consulting, Inc.

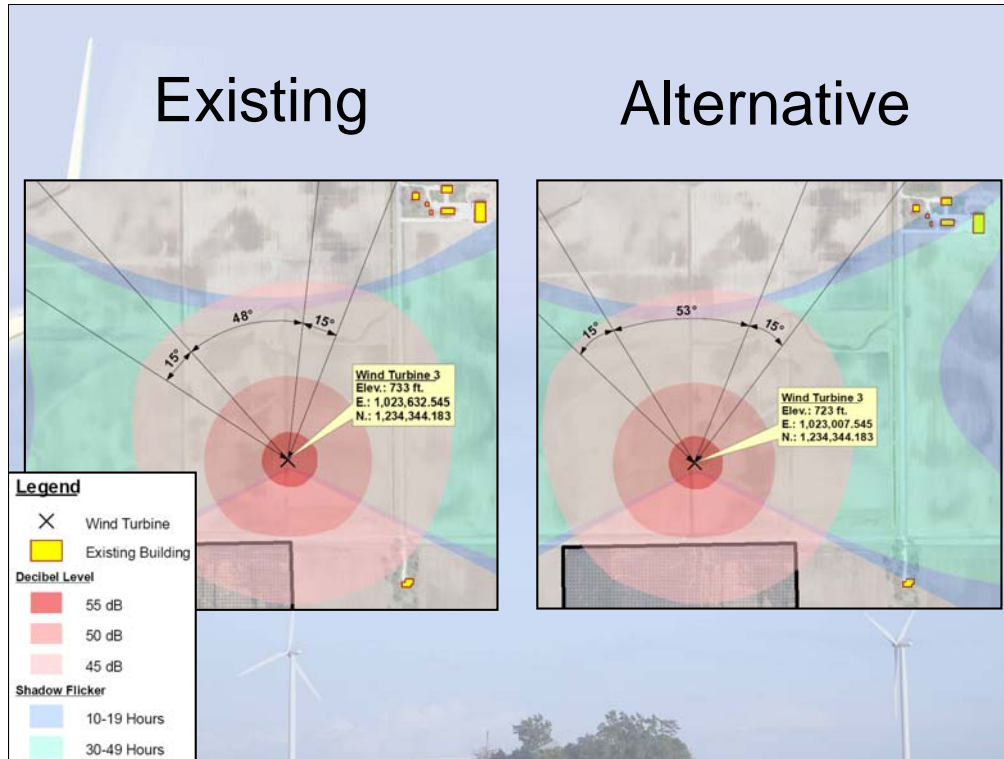


As someone who got involved with this project years after it began, I understand the frustration from hearing recurring quotes about the project without any of the justification behind them. One sentence I have heard more than a few times is that the selected location is the only option away from residential developments. I'm showing here images from a Fatal Flaws Analysis that was done by Navigant Consulting in 2005. In the beginning, the University looked at all UI property between Windsor and Airport Road. Areas with the stream and low elevation areas were removed, and the remaining four areas were evaluated as potential Wind Turbine locations, ABCD.

The sites were further evaluated based on these five factors. This map shows the proximity to Willard Airport with the white line representing a 20,000 foot setback from the runways. Discussions with airport personnel indicated that site D would have the least impact to flights.



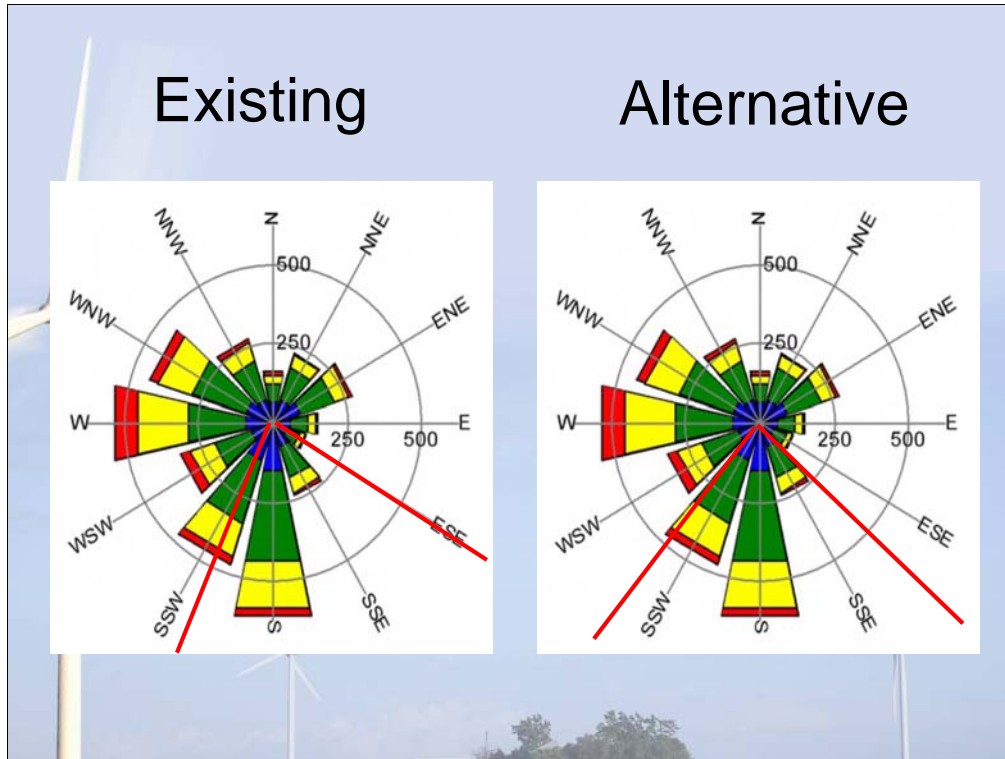
So here is Site D. This shows the 20,000 foot setback from Willard, the shadow flicker, where green is greater than 30 hours max per year, the noise impact shown at 55, 50, and 45 decibels, and nearby facilities. A number of people asked if the location could change, and keeping the goal of no more than 30 hours of flicker on a residential property, the furthest we could shift the site would be 625 feet to the west.



So here is Site D. This shows the 20,000 foot setback from Willard, the shadow flicker, where green is greater than 30 hours max per year, the noise impact shown at 55, 50, and 45 decibels, and nearby facilities. A number of people asked if the location could change, and keeping the goal of no more than 30 hours of flicker on a residential property, the farthest we could shift the site would be 625 feet to the west.

This shift would have certain impacts:

- there would be some shadow flicker, less than 30 hours max per year on the two closest residences
- the elevation of the site would be ten feet lower
- the connection to the existing UI electrical grid on Race Street would be shorter
- and the angle during which the turbine would need to be shut off due to the Energy Farm Research contract.



As far as costs of moving the location are concerned, there will need to be a geotechnical report done for the new location to determine the appropriate foundation style, and the electrical connection will be shorter. But the largest financial impact of a shift will come from the impact of the angle in relationship to the Energy Farm. This is the Energy Rose showing the anticipated wind energy from each direction. The most energy comes from the south and the west location, and the second largest is from the SSW and the WNW. You can see the change in location would impact the amount of potential wind energy. This is one of the factors that will go into a decision about whether to move it and how much.