

COLOCATION FEASIBILITY ANALYSIS

To: Tillman Infrastructure
Site Number: 15887152/ TI-OPP-23028
Search Radius: 1584'

Date: 08/24/2023
Coordinates: 42.83243, -88.70
Requested Rad: 190'

Summary Area Review:

No other sites within search area feasible for colocation. No sites outside of search area potentially viable.

Analysis:

AT&T requested a tower capable of supporting a 190' RAD center within a 1,584' radius of the coordinates 42.83243, -88.70 in order to meet its coverage objective. Proposed tower is located at 42.830583, -88.710889, within requested radius of coverage objective. There are no existing structures 190' in height within this radius. Therefore, per Wis. Stat. 66.0404(2)(b)(6) there are no alternative structures within the search ring that can meet this requirement. This finding is supported by 12/12/23 affidavit from Andrew Flowers, Sr. Real Estate and Construction Manager for AT&T.

City of Whitewater Ordinance 19.55.050 requires an evaluation of three alternative sites, pre-existing freestanding wireless telecommunications facilities, and/or alternative support structures that could technically support a comparable level of service. There are no such alternative sites in the surrounding area. There are no alternative support structures such as water tanks or tall buildings within the search area. There are no pre-existing telecommunications structures within the search area.

Outside of the search area, the three nearest structures of 190' or above are:

ASR Registration Number 1047474:

- 42.838528, -88.708639
- 190' guyed mast owned by US CELLULAR CORPORATION
- approximately 0.43 miles north of coverage objective
- existing tower has several microwave dishes and one antenna array and does not have the capacity for AT&T site at 190'. Overlapping existing AT&T coverage provided by site WIL01196 located on ASR Registration Number 1233524

ASR Registration Number 1316680:

- 42.813806, -88.689333
- 300' proposed guyed mast owned by Cloud 1
- approximately 1.55 miles southeast of coverage objective
- too remote, does not address requested coverage area

ASR Registration Number 1324313:

- 42.852306, -88.727944
- 220' proposed self-support tower owned by Walworth County, not yet constructed
- approximately 1.73 miles northwest of coverage objective

- too remote, overlapping existing A&T coverage provided by site WIL01196 located on ASR tower 1233524 and site WIL02695 located on ASR Tower 1324313

Zoning Requirements:

City of Whitewater, WI

[Ordinance 19.55.050\(H\):](#)

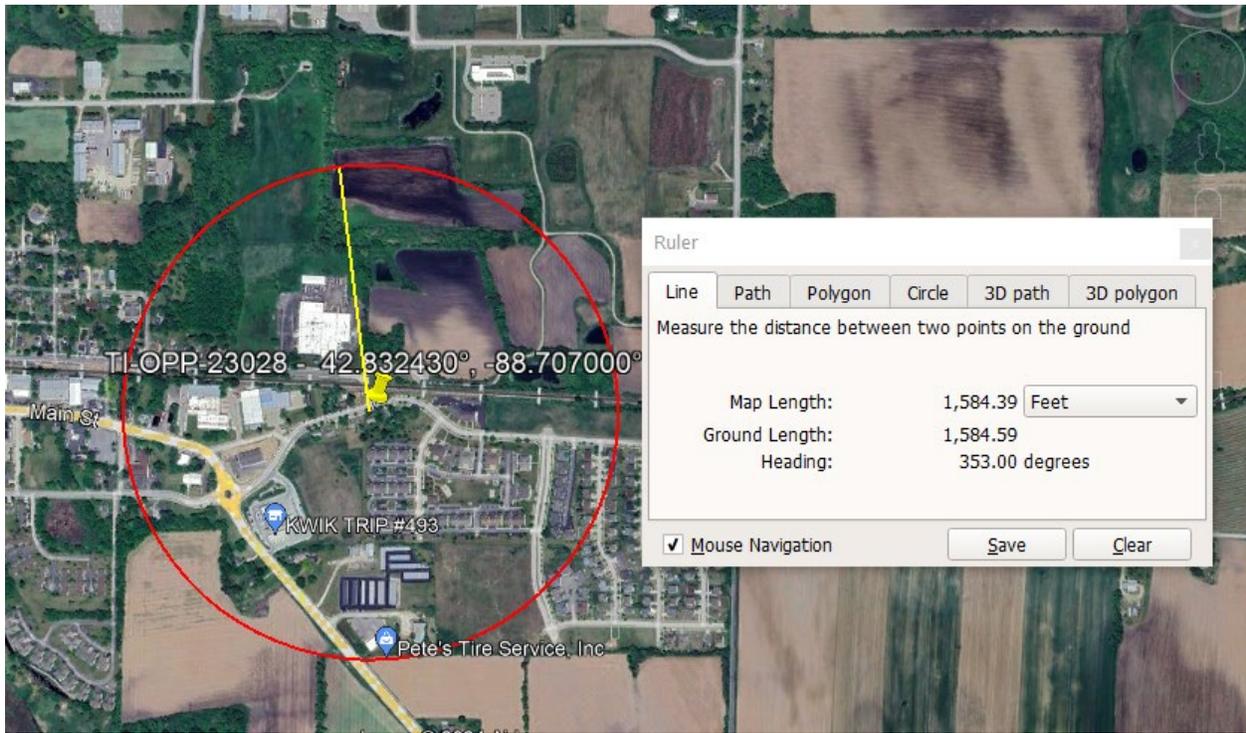
For a wireless telecommunications facility that requires a conditional use permit, a feasibility analysis that identifies at least three alternative sites, pre-existing freestanding wireless telecommunications facilities, and/or alternative support structures that could technically support a comparable level of service. The intent of this analysis is to present options to minimize the number, size, and adverse environmental impacts of wireless telecommunications facilities. The analysis shall specifically address the potential for co-location on pre-existing freestanding wireless telecommunications facilities and the use of alternative support structures. It shall also explain the rationale for selection of the proposed site in view of the relative merits of the alternatives. Approval of the project is subject to the plan and architectural review commission's determination that the chosen site is more advantageous than any other alternative site that is both technically feasible and available for use. The plan and architectural review commission may choose to independently verify the findings of the analysis at the applicant's expense.

State of Wisconsin

[Wis. Stat. 66.0404\(2\)\(b\)\(6\)](#)

If an application is to construct a new mobile service support structure, an explanation as to why the applicant chose the proposed location and why the applicant did not choose collocation, including a sworn statement from an individual who has responsibility over the placement of the mobile service support structure attesting that collocation within the applicant's search ring would not result in the same mobile service functionality, coverage, and capacity; is technically infeasible; or is economically burdensome to the mobile service provider.

Search Ring:



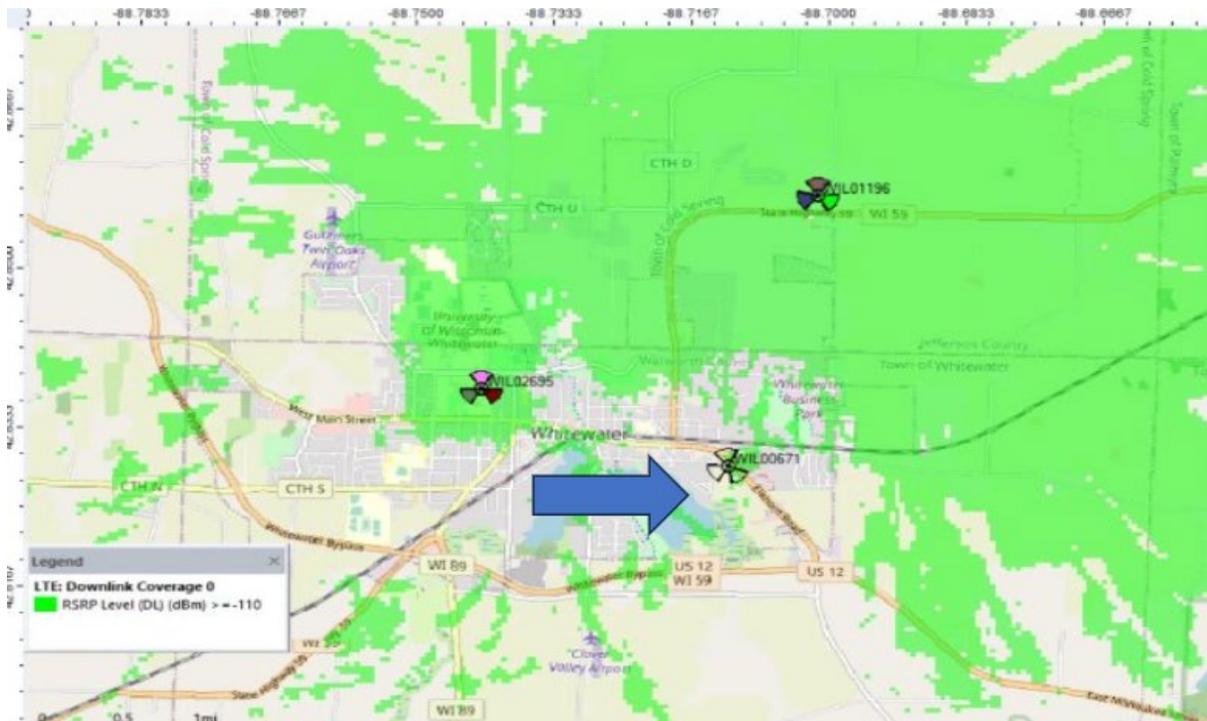
Search Ring with ASR Registered Towers (2-mile radius):



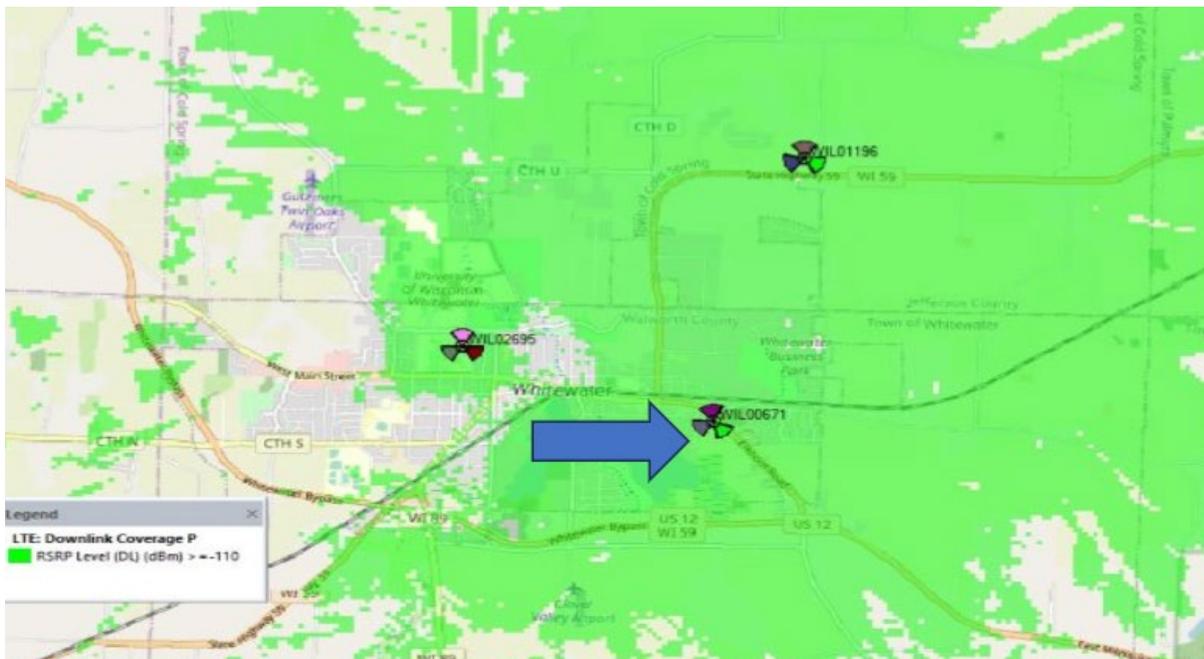
Three Closest Potential Alternate Structures:

- ASR 1047474 – overlapping coverage with WIL01196, does not meet coverage objective
- ASR 1316680 – unconstructed, too remote to meet coverage objective
- ASR 1324313 – unconstructed, overlapping coverage with WIL01196 and WIL02695 and does not meet coverage objective

AT&T Signal Propagation Map (Existing):



AT&T Signal Propagation Map (Proposed):



Existing ASR Tower 1047474:

