

<b>Project Title:</b>	CTH J – CTH FT Intersection	<b>Project #:</b>	202302
<b>Department:</b>	Public Works - Highways	<b>Project Type:</b>	Intersection
<b>Phase:</b>	Preliminary Design	<b>Road Name:</b>	Pewaukee Road
<b>Budget Action:</b>	Delay C - \$ Update	<b>Manager:</b>	Allison Bussler, DPW Director
<b>Date:</b>	July 8, 2024	<b>Map / Image:</b>	<a href="#">Click Here</a>

CAPITAL BUDGET SUMMARY						
Year	2023	2024	2025	2026	2027	Total
Project Phase	Design	Design/Land			Const	Project
Expenditure Budget	\$20,000	\$106,400	\$0	\$0	\$141,300	\$267,700
Revenue Budget	\$0	\$0	\$0	\$0	\$0	\$0
Net Costs After Revenues Applied	\$20,000	\$106,400	\$0	\$0	\$141,300	\$267,700
<b>COST DOCUMENTATION</b>			<b>REVENUE</b>			
Design		\$248,700	Federal Highway Safety Improvement Program (HSIP) Funding Design			\$237,300
WisDOT Design Review		\$15,000	Federal Highway Safety Improvement Program (HSIP) Funding Construction			\$1,271,700
Land Acquisition		\$100,000				
Construction		\$1,189,200				
Construction Management		\$163,800				
Contingency		\$60,000				
Total Project Cost		\$1,776,700	Total Revenue			\$1,509,000
<b>EXPENDITURE BUDGET</b>		<b>\$267,700</b>	<b>REVENUE BUDGET</b>			<b>\$0</b>

**Project Scope & Description**

The intersection of CTH J (Pewaukee Road) and CTH FT (Northview Road) leads to the entrances of Crites Field and the County Expo grounds. The purpose of this project is to improve the traffic signal equipment and geometry of the intersection. Changes to the existing intersection will provide safer traffic signal control, improve visibility for turning vehicles and reduce collisions. Improvements may include:

- Realign CTH J left turn lanes to improve visibility of opposing traffic.
- Replace all existing traffic signal equipment and adding retroreflective backplates over each approach lane.
- Replace induction loops with new video detection.
- Reconfigure corner islands and curve radii to accommodate lane realignment.
- Assess Eastbound left turn demand at peak hours, and increase turning bay capacity and signal timing accordingly.

Waukesha County was awarded Highway Safety Improvement Program (HSIP) funding for the design and construction phases of this intersection improvement.

Construction has been delayed to 2027 to provide adequate time for design and land acquisition and to fit the statewide HSIP Program schedule. Total project construction costs have been decreased by \$5,000 to match the WisDOT SMA.

**Location:** City of Waukesha.

**Analysis of Need**

Of the intersections reviewed in a 2022 safety screening study, the intersection of CTH J and CTH FT experienced the largest number of accidents for a single traffic movement and has one of the highest crash rates with respect to its traffic volume. Thirty-five (35) crashes have occurred over a 5-year period with northbound vehicles turning left onto CTH FT accounting for twenty-one (21) of them. The existing lane alignment of CTH J restricts visibility of oncoming traffic. The existing traffic signal equipment was constructed in 1990 and condition of the traffic signal equipment within the intersection warrants replacement.

**Alternatives:** The do nothing alternative does not address an identified high crash rate intersection.

**Ongoing Operating Costs:** Maintenance costs will be reduced in the early years after construction in 2025.

**Previous Action:** Approved as a new project in the 2023-2027 capital plan. Approved with cost and revenue updates in the 2024-2028 capital plan.