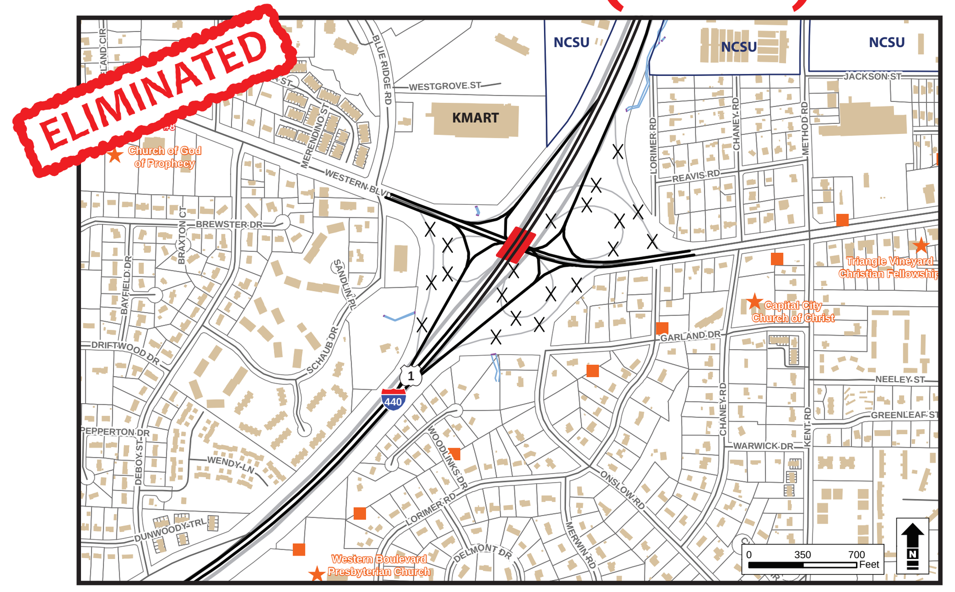
I-440 IMPROVEMENTS
Walnut to Wade
STIP #U-2719 Wake County

Western Boulevard Interchange

STEP 1 - Initial Sketches

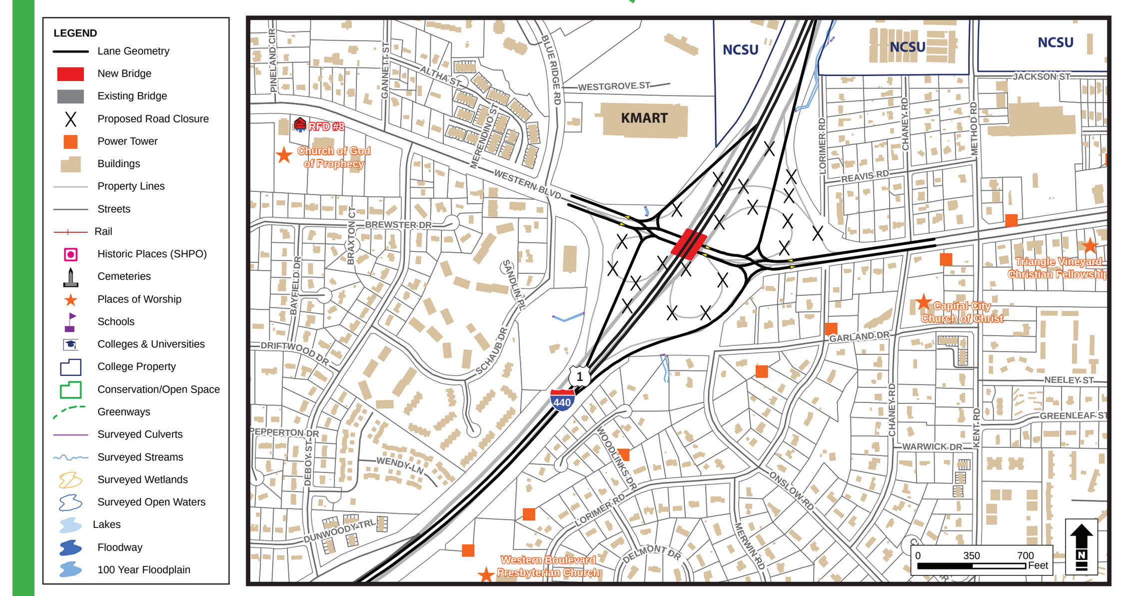
SINGLE-POINT URBAN INTERCHANGE (SPUI)



Screening Results

- Future traffic would back up onto I-440 for the westbound off ramp unless triple left turns are provided. There would not be enough lanes on Western Boulevard to accommodate triple left turns.
- Would accommodate bicycles and pedestrians.
- Generally sufficient existing right of way, so minimal direct impacts to surrounding properties.

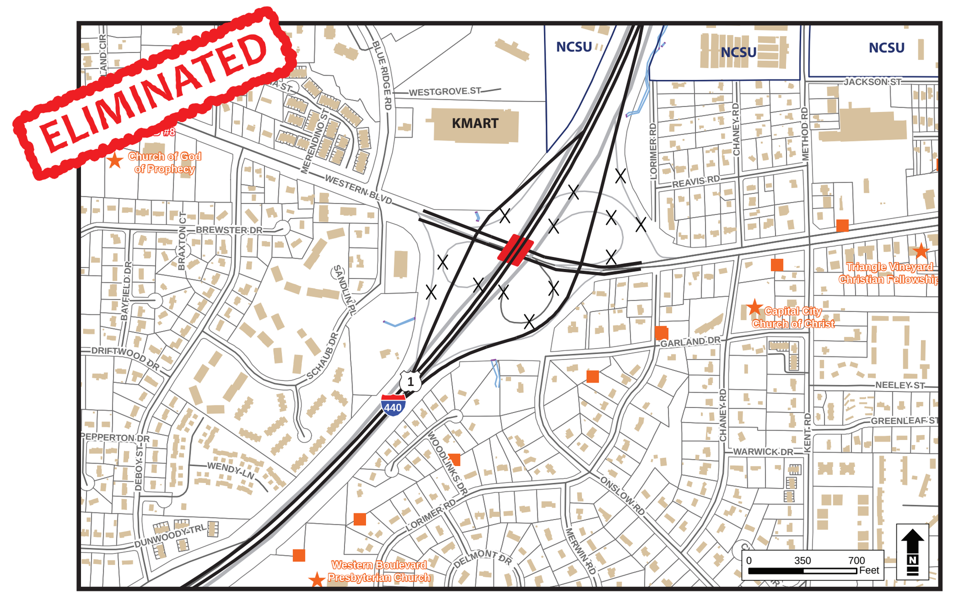
DOUBLE CROSSOVER DIAMOND (AKA DIVERGING DIAMOND)



Screening Results

- Traffic operations would have an acceptable level of service through 2035.
- Would accommodate bicycles and pedestrians.
- Generally sufficient existing right of way, so minimal direct impacts to surrounding properties.

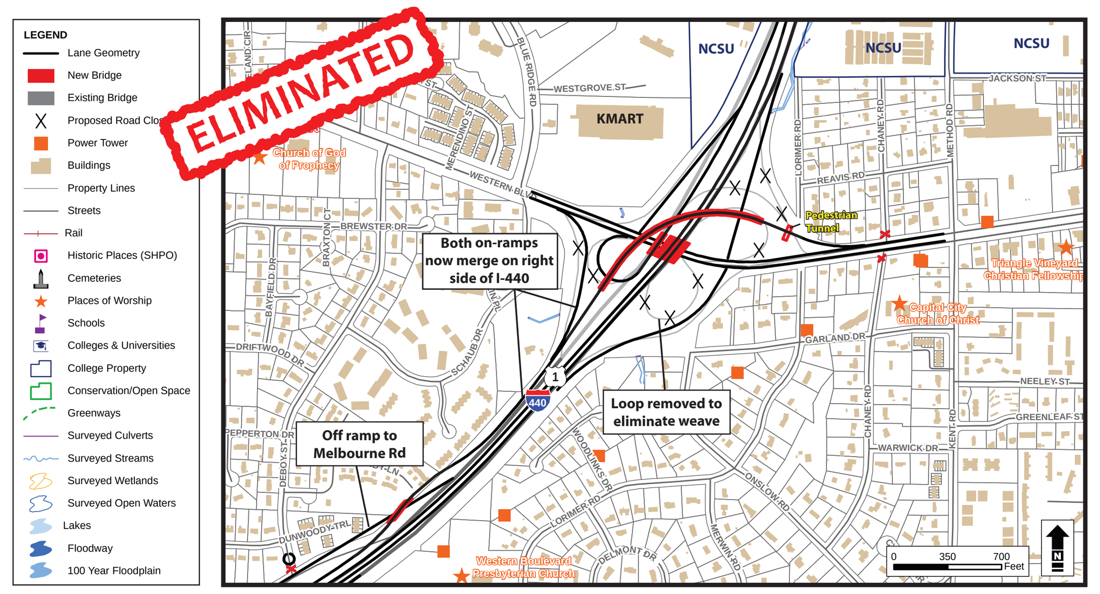
TRADITIONAL DIAMOND



Screening Results

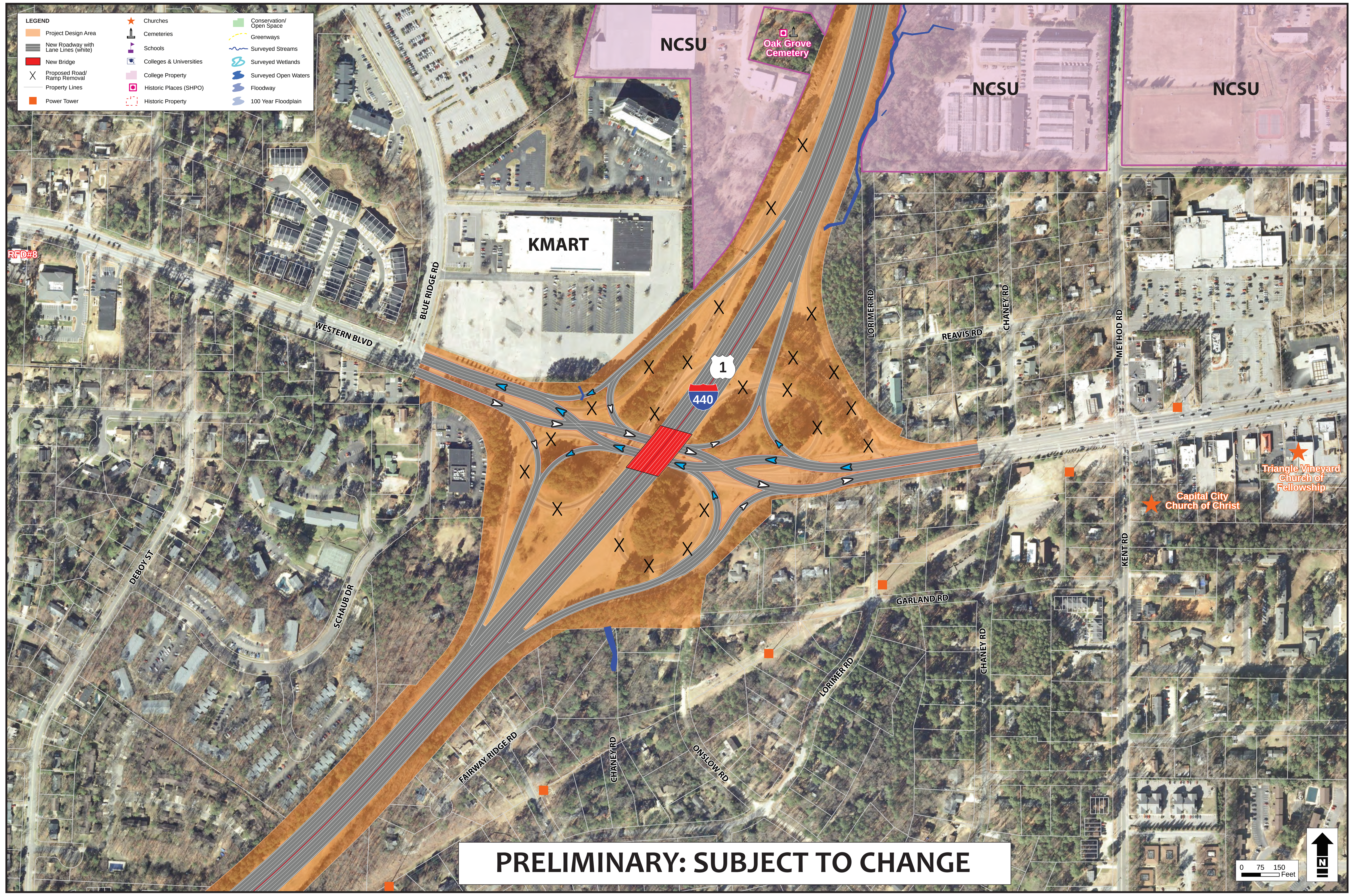
- Future traffic would back up onto I-440 for both off ramps unless triple left turns are provided. There would not be enough lanes on Western Boulevard to accommodate triple left turns.
- Would accommodate bicycles and pedestrians.
- Generally sufficient existing right of way, so minimal direct impacts to surrounding properties.

MODERNIZE EXISTING INTERCHANGE FORM



Screening Results

- Melbourne Road interchange would not be accessible to travelers getting on westbound I-440 from Western Boulevard.
- Substantially higher costs and impacts compared to other options.
- Additional right of way needed would likely impacts homes at Wendy Lane and Teakwood Place.
- Least accommodating to bicycles and pedestrians.

STEP 2 - Conceptual Designs Recommended for Detailed Study

DOUBLE CROSSOVER DIAMOND (AKA DIVERGING DIAMOND)