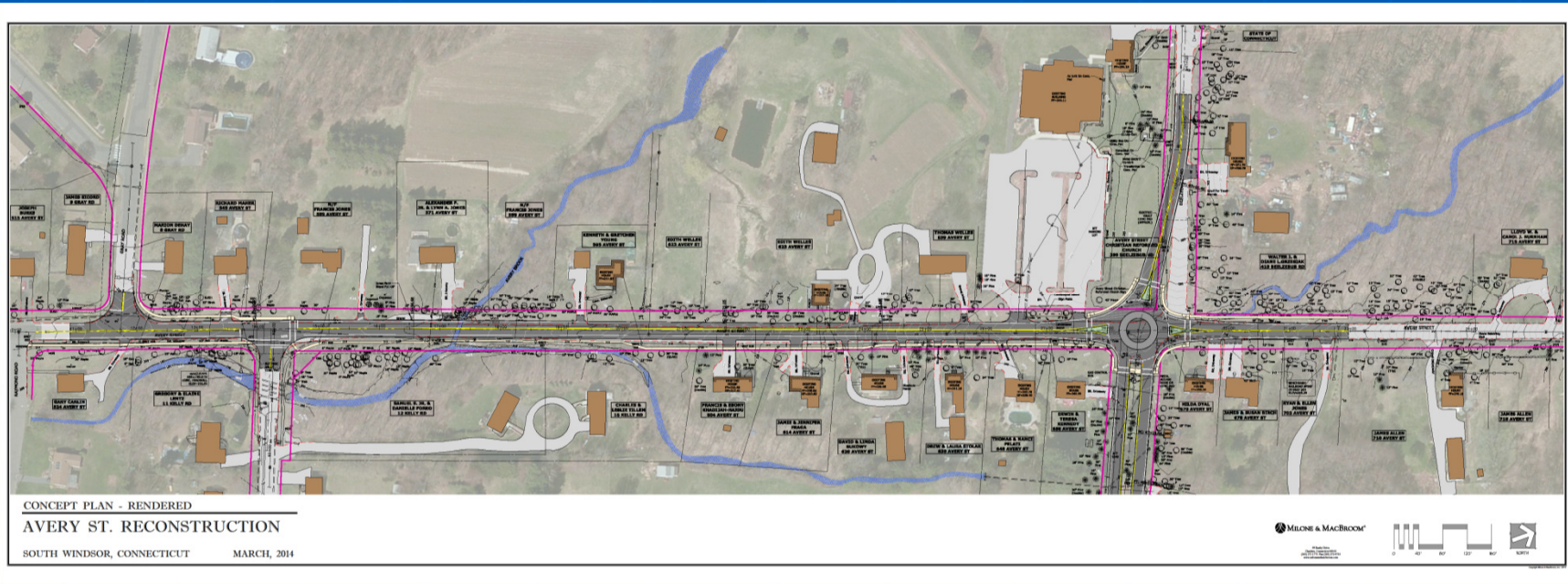


AVERY STREET RECONSTRUCTION (Beelzebub to Gray)

DESIGN LAYOUT developed with input from
3 public informational meetings
28 ft pavement width
New Drainage
Curbing
Sidewalk on east side
Realign Intersection of Beelzebub and Woodland

Preferred Design Layout



INTERSECTION OF BEELZEBUB ROAD AND WOODLAND DRIVE

Existing Conditions

- Beelzebub off Set from Woodland with hill
- 4-way stop
- 840 vehicles per hour peak weekday volume
- 64% of traffic travels N-S on Avery
- 16% of traffic turning between Beelzebub and Avery (South)
- 8% of traffic enters intersection from Woodland Drive
- 8 accidents at this intersection between January 2009 and June 2013
- Residents say driver hesitation and confusion leads to many near misses



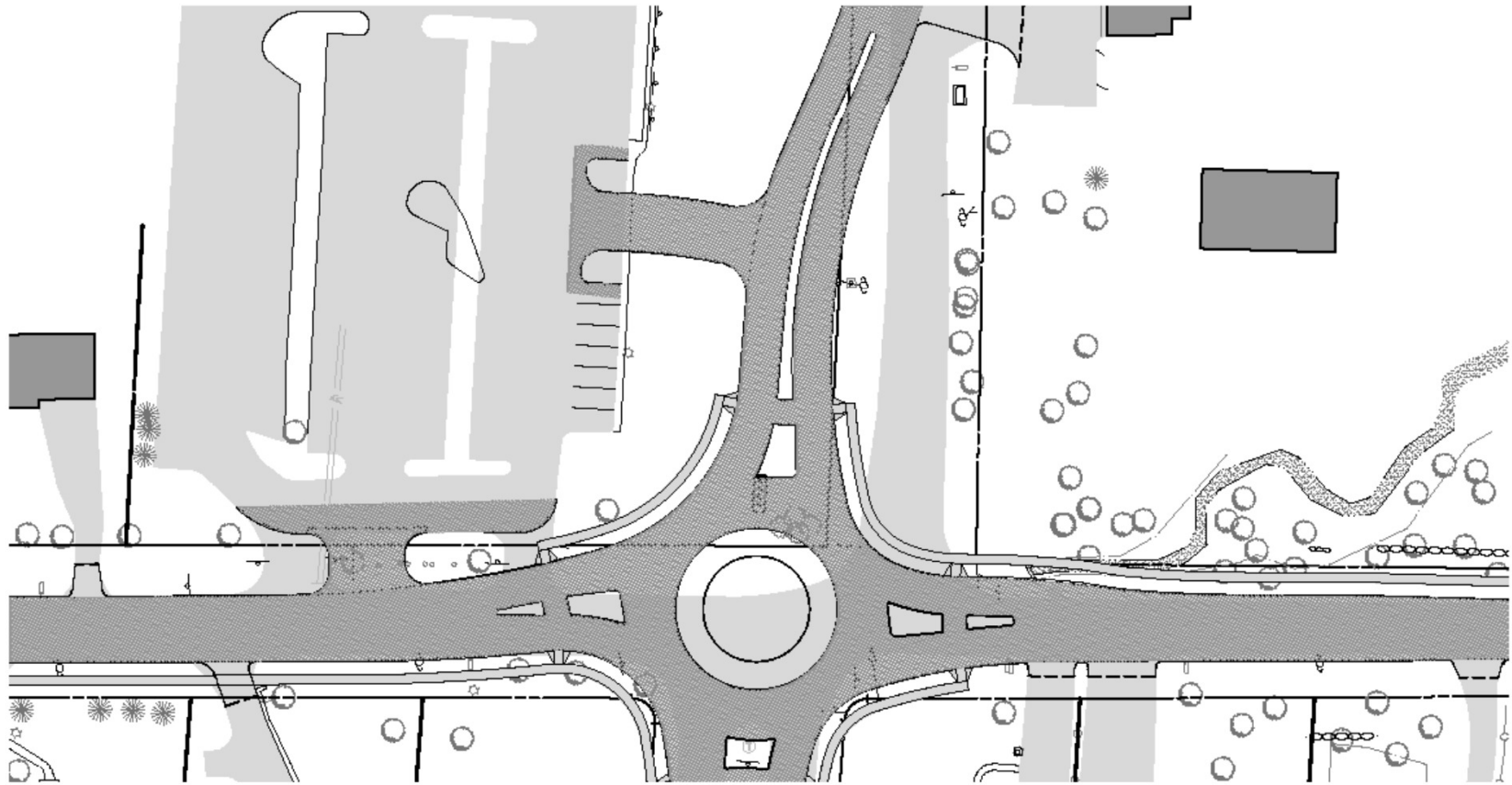
INTERSECTION OF BEELZEBUB ROAD AND WOODLAND DRIVE

Objectives

- INCREASE SAFETY, EFFICIENCY AND REDUCE CONJESTION, CONFUSION
- Align Beelzebub with Woodland
- Maintain all-way traffic control
- Allow for safe pedestrian crossings
- Conform with Town, State, Federal standards

Alternative 1

- Realign Beelzebub with Woodland with a modern Roundabout
- Reduces delay, LOS A with roundabout existing LOS C/B
- Improves sight line
- In 20 yrs LOS projected to be B/A in roundabout, C-D in 4-way stop because roundabout has more capacity
- Reduces accident severity, frequency
- Safe for pedestrian crossings

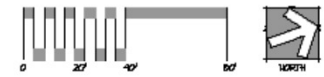


INTERSECTION - ROUNDABOUT

AVERY STREET RECONSTRUCTION

AVERY STREET
SOUTH WINDSOR, CONNECTICUT APRIL 4, 2014

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Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
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National Roundabout Studies

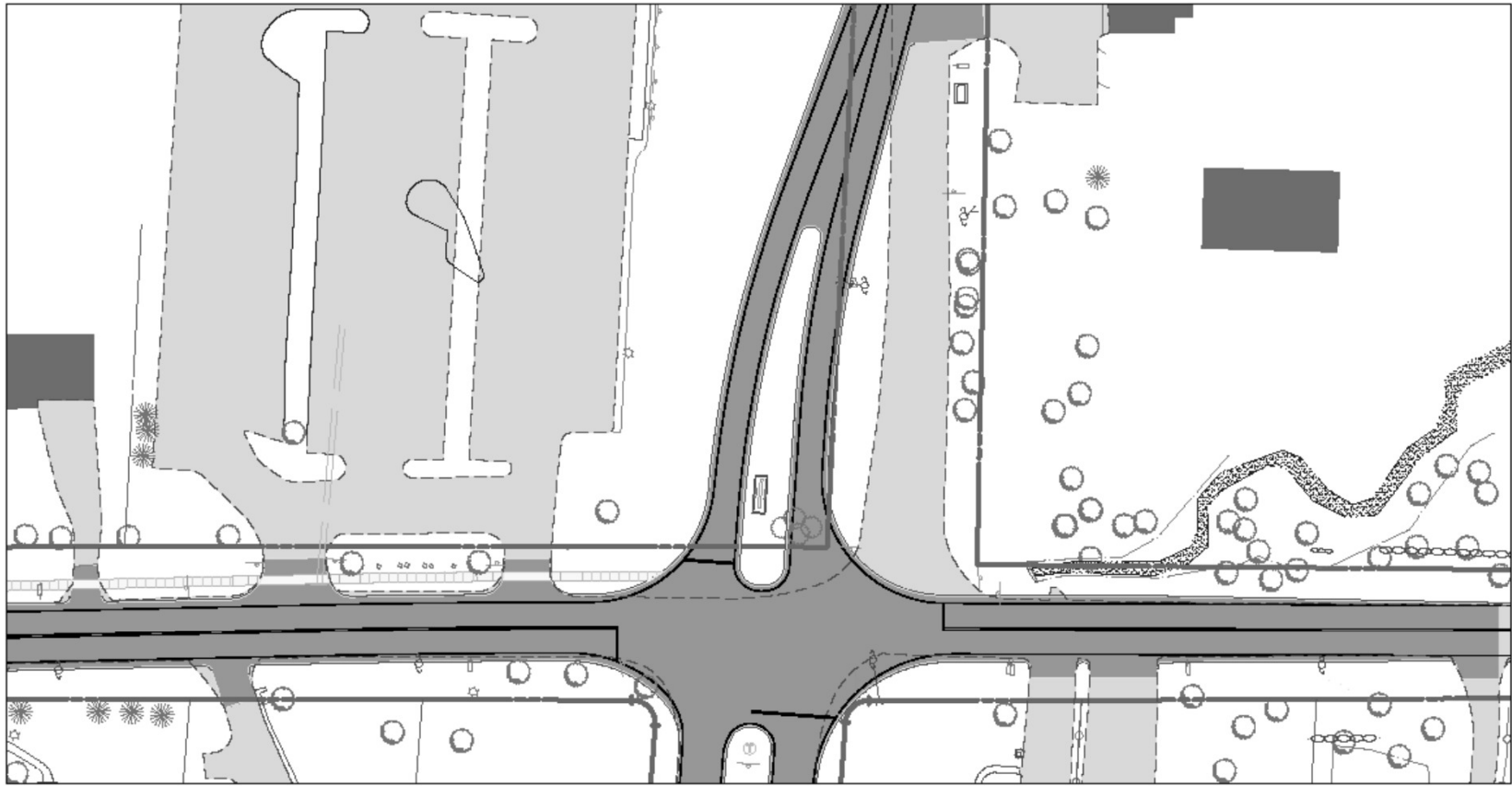
- Traffic speeds in roundabouts are low, about 20 mph, entering traffic yields and only stops when necessary
- Roundabouts are circular intersections that eliminate left turns, conflicts and potential T and head-on collisions
- Refuge islands help pedestrians cross
- Pedestrian conflicts are lower in roundabouts than other traffic control intersections

National Roundabout Studies

- About 3000 Roundabouts have been constructed in many states in US since 1990
- Studies of new Roundabouts found all crashes reduced by 35%-47% and all injury crashes reduced by 72%-80%
- Studies found average vehicle delay reduced about 60% with new roundabouts
- Survey found about 35% of residents in favor of roundabouts before construction
- Survey found about 70% of residents in favor of roundabouts 1 year after construction

Alternative 2

- Realign Beelzebub with 4-way Stop
- Keeps current LOS C/B
- Improves sight Line
- Reduces hesitation, confusion
- LOS will degrade to C-D over years due to increased traffic
- May not reduce accidents
- Allow for pedestrian crossings

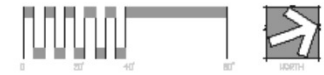


INTERSECTION - 4 WAY STOP CONTROL

AVERY STREET RECONSTRUCTION

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INTERSECTION OF BEELZEBUB ROAD AND WOODLAND DRIVE

- Majority of residents in 3 public information meetings in favor of design layout and intersection realignment
- Approximately 30%-40% of residents in favor of a roundabout
- Majority (about 70%) of parishioners of Avery Street Church in favor of a roundabout
- Formal Public Information Meeting with TC after Preliminary Design reviewed by ConnDOT (summer)
- Town Council support for design layout