## Board of Public Works

May 7, 2014
County Highway M
Cross Country Road to Prairie Hill Road


VERONA

## Project Team



- City of Madison
- Rob Phillips, P.E. City Engineer
- Chris Petykowski, P.E. Principal Engineer
- Brian Smith, P.E. Traffic Engineer

- City of Verona
- Ron Rieder, Director of Public Works
- Bill Burns, Administrator
- Adam Sayre, Director of Planning \& Development
- Dane County
- Pam Dunphy, P.E. Assistant Highway Commissioner


## Project Location

- Flagstone Drive to Prairie Hill Road
- Cross Country Road to Flagstone Drive



## Project Goals

> Provide a safe and convenient corridor for all users, including:
$>$ Pedestrians
> Bicyclists
$>$ Motor vehicles
$>$ Transit
> Provide acceptable operating conditions for existing and future traffic volumes
> Accommodate planned growth in the area
> Provide well designed intersections that minimize impacts


## Corridor Importance



## Intersection Improvements

Provide well designed intersections that minimize impacts

- Mid Town Road
- Traffic Signal
- 2 lane Roundabout (expandable to 3 lane)
- Preferred alternative: Traffic Signal
- Selected \& approved after consideration of stated project goals and public comment.


Traffic Signal Alternative - Mid Town Road

## Intersection Improvements

Provide well designed intersections that minimize impacts

- County PD (McKee Road)
- Traffic Signal
- 2 Lane Roundabout (expandable to 3 lane)
- Grade Separated Jug Handle
- Preferred alternative
- Roundabout was selected \& approved after consideration of stated project goals and public comment.


Roundabout Alternative - CTH PD

## County PD (Mckee Road)

## Roundabout

- New operations analysis tools available
- Proposed County PD roundabout was reanalyzed.
- Analysis showed excessive queuing and delay in the evening peak travel hour.
- Potential for poor operations could result in neighborhood impacts (cut through traffic).
- Updated \& higher traffic volume projections
- Epic expansion
- Verona North Neighborhood planning


## County PD (McKee Road)

## New Alternatives

- Full Interchange (Tight Diamond)
- County M - 4 lane bridge over the intersection.
- 4-lane County PD intersection below the bridge.
- Westbound Underpass - Recommended
- At-grade traffic signal intersection - no westbound County PD through movement.
- 6-lane County M and 4-lane County PD.
- Westbound County PD bypasses intersection under a bridge for County M.


## County PD (McKee Road)

Full Interchange


## County PD (McKee Road)

## Full Interchange

- Advantages
- Accommodates design year traffic volumes.
- Capacity to accommodate increases in volume beyond the design year.
- Familiar design for drivers.
- Disadvantages
- Merge conditions north \& south will impact future access.
- Large bridge - high construction cost \& visual impact.
- Multi-use path crosses intersection at-grade.
- Greater right-of-way needs than the roundabout.


## County PD (McKee Road)

 Westbound County PD Underpass - Recommended

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Westbound County PD Underpass - Recommended

- Advantages
- Accommodates design year traffic volumes.
- Underpasses for multi-use path.
- Signal controlled crosswalks with countdown timers for pedestrians.
- Familiar design for drivers.
- Disadvantages
- Greater right-of-way needs than the roundabout.
- Greater construction cost and visual impact than the roundabout.


## Raymond Road

## Accommodate planned growth in the area

- CTH PD intersection
- High traffic volume limits safe and efficient connection
- Neighborhood plan
- Under review with planned revisions
- New connections to CTH M and CTH PD considered
- Reconstruction to Hickory

Ridge Road

- New storm and sanitary sewer will follow Raymond Road



## Bicycle Facilities

Provide a safe and convenient corridor for all users:

- Bike lanes
- All arterials
- Multi-Use Path
- Ice Age Junction Path
- Military Ridge Trail to West side of Madison
- Verona Connection - Tie Verona North Neighorhood into Ice Age Junction Path



## Project Schedule

- Current Status
- Preliminary design
- Next Steps
- Finalize the environmental review
- Develop final plans based on the preferred alternative
- Complete final plans: Late 2014/Early 2015
- Begin construction: Late 2015/2016



## Construction Costs

- 2014-2018 TIP
- Flagstone to Prairie Hill - 11.8 M
- Cross Country to Flagstone - 10.8 M
- Cross Country to Flagstone
- Increase to 12.8 M

