North Fish Hatchery Road Reconstruction

Public Meeting #3 Exhibits | April 8, 2019

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North Fish Hatchery Road
Traffic Conditions Summary

Corridor Characteristics:

- Principal Arterial (regional traffic route)
- Reliever route for Verona Road and US Highway 14
- One of only three Beltline Crossings between USH 14 and Verona Road
- Urbanized corridor with 4 traffic signals that operate with high delays during peak hours.
- 2 additional traffic signals will be installed along the corridor (total of 6 signalized intersections).

Traffic Volumes:

- Currently serves between 33,700 to 38,500 vehicles per day (increases from south to north)
- The Greenway Cross intersection serves almost 5,000 vehicles during the afternoon peak hour
- Infill development is anticipated to increase traffic volumes along the corridor by 8,000 – 12,000 vehicles per day

Safety and Crashes:

- 439 crashes reported along the corridor in 5 years (2013 – 2017)
- Majority of crashes intersection related
- Highest crash rates at the Greenway Cross and Post Road intersections
- High rate of rear-end crashes at Caddis Bend intersection

Traffic Flow and Congestion:

- Major congestion at the Greenway Cross intersection. Northbound traffic flow is unbalanced due to single lane EB Beltline Ramp entry (expansion would require WisDOT approval)
- High levels of congestion between Greenway Cross and Post Road
- Major congestion at the CTH PD intersection, especially on the west leg of McKee Road
- Moderate congestion at other intersections: Caddis Bend and Post Road

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North Fish Hatchery Road
-Corridor Improvements-

Corridor-wide improvements will include:

- Improvements to intersection safety and congestion issues
- Replacement of deteriorating pavement, curb and gutter
- Repair of underground infrastructure (water and sanitary)
- Replacement of storm sewer
- Replacement of deteriorating retaining walls
- Safer access to existing properties and future development areas
- New traffic signals and street lighting
- Upgrades to pedestrian and bicycle infrastructure, and improved transit amenities
- Upgrades to streetscaping, such as plantings, signage and decorative elements

Madison Beltline Hwy

Madison Beltline Hwy

Greenway Cross intersection traffic flow and safety improvements

Greenway Cross stormwater improvements

Greenway Cross

Sidewalk replaced with shared use path

New signalized intersection

Index Rd

Pike Dr

Post Rd

Pedestrian Plaza

Post Rd

Traceway Dr

Post Rd intersection traffic flow improvements

Nine Springs Golf Course

New signalized intersection

High Ridge Trl

Breckenridge Ct

Bicycle and pedestrian bridge over Nine Springs Creek parallel to North Fish Hatchery Road

Caddis Bend

Caddis Bend intersection traffic flow improvements

Cahill Main

Bike lane expanded to shared bus/bike/right-turn lane

PD

McKee Rd

Brendan Ave

McKee Rd intersection traffic flow improvements

Glacier Valley Rd

N

Strategies to Reduce Project Cost

Strategy	Cost Reduction
Limit majority of construction to one year	Constructing over multiple years increases costs for labor and contractor mobilization
Provide one lane in each direction during construction	Eliminates temporary pavement for widening and cross-overs
Shift the McKee Rd intersection south	Avoids retaining walls for embankment area by pedestrian bridge
Shift Fish Hatchery Road west between Cahill Main and Caddis Bend	Avoids ATC relocation and impacts to Oak Savanah
Replace retaining walls with large block type walls	Minimizes property impacts and cost over small block type walls
City purchases street lighting and traffic signal equipment	Saves on contractor handling and mark-up
Minimize pavement drain tile locations except near storm inlets	Avoids larger cost if used for the total project length
Maintain shared bus/bike/right turn lane	Avoids loss of future Bus Rapid Transit project on Fish Hatchery Road
Replacement of path and sidewalk only where needed	Avoids total replacement cost Additional areas will be replaced as future development occurs
Spot repair of water and sanitary sewer	Avoids total replacement cost
Select landscape materials for hardiness	Reduces long term maintenance costs

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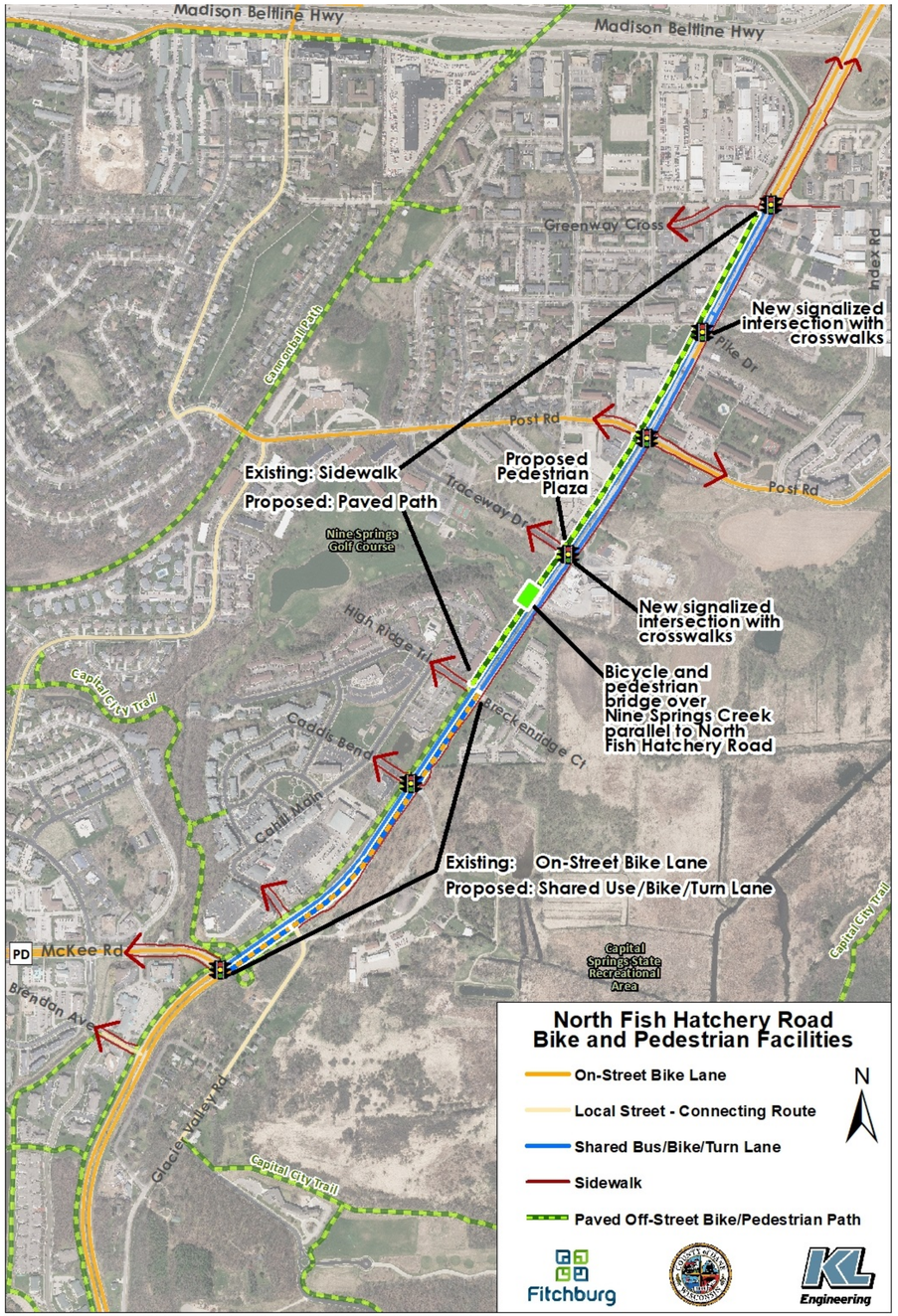
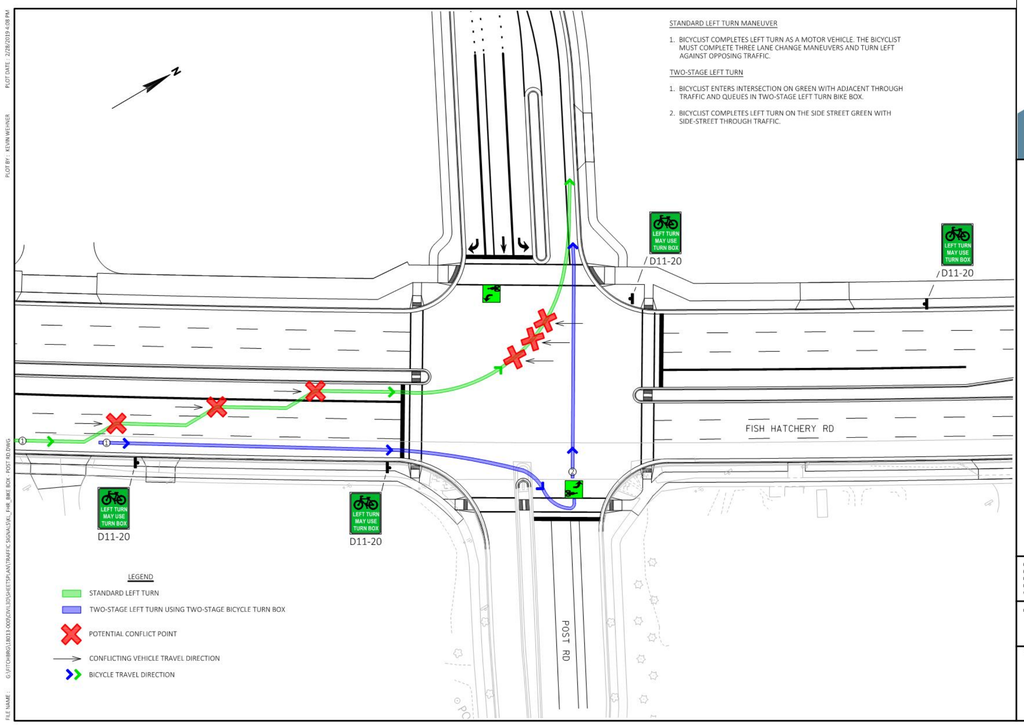
North Fish Hatchery Road
Existing and Proposed Bike and Pedestrian Facilities



Corridor-wide improvements will include:

- Street lighting with better illumination of the sidewalk and path
- Enhanced signing and pavement marking of the shared bus/bike/right turn lane
- Improved crosswalk markings including green crosswalks for path crossings of both roads and driveways
- ADA curb ramps
- Pedestrian actuated signals at signalized intersections
- Median refuges for Fish Hatchery Road crosswalks
- 2-stage bicycle turn boxes at appropriate intersections

Example Photos of Bicycle and Pedestrian Bridge over Nine Springs Creek



Two-Stage Left Turn Bike Boxes

A two-stage left turn (TSLT) bike box is a dedicated on-street bicycle accommodation that helps bicyclists make left turns. These pavement markings encourage cyclists to first proceed through the intersection, and then cross the road from the side street with side street through traffic. Two-stage left turn bike boxes consist of pavement markings that indicate a safe place for the cyclist to wait, and bicycle detection at those locations.

Two-stage left turn bike boxes are currently approved by the FHWA on an interim basis. According to the FHWA, they "have been part of international practice for many years." They are commonly used in conjunction with green colored pavement markings to increase visibility.

Advantages of two-stage left turn bike boxes include the elimination of several conflict points associated with left turns. Most notable for the Fish Hatchery Road corridor is the elimination of the need for lane changes to access the left turn lane from the bike lane, a maneuver that occurs across heavy traffic.

TSLT bike boxes are being considered at some locations along the Fish Hatchery Road Reconstruction project. Locations being considered include those where left turns could be otherwise difficult for bicyclists to make. Other criteria include factors that enhance the benefit of TSLT bike boxes such as the presence of adjacent on-street bicycle facilities, as well as compatibility with vehicular lane assignments.

Advantages:

- Fewer potential conflict points with vehicular traffic.
- More comfortable for less confident cyclists.
- Clearly indicates location of bicycle detection.

Disadvantages:

- Additional left turn delay.
- Not yet familiar for SW WI bicyclists.
- Additional pavement marking maintenance.

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TWO-STAGE BICYCLE TURN BOX CONCEPTUAL LAYOUT

Project No:
Date:
Designed By:
Drafted By:
Checked By:

Revisions

SHEET NO.

OF

Example Photo of green crosswalk University Ave, City of Madison

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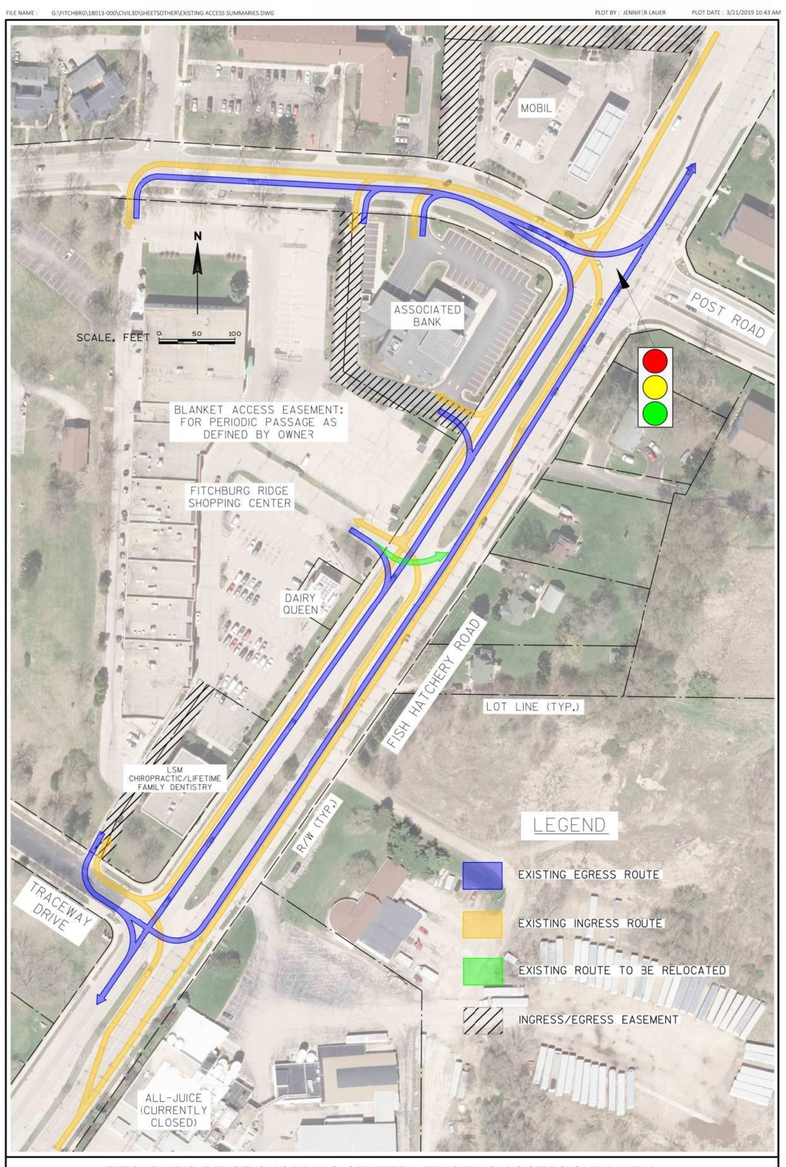
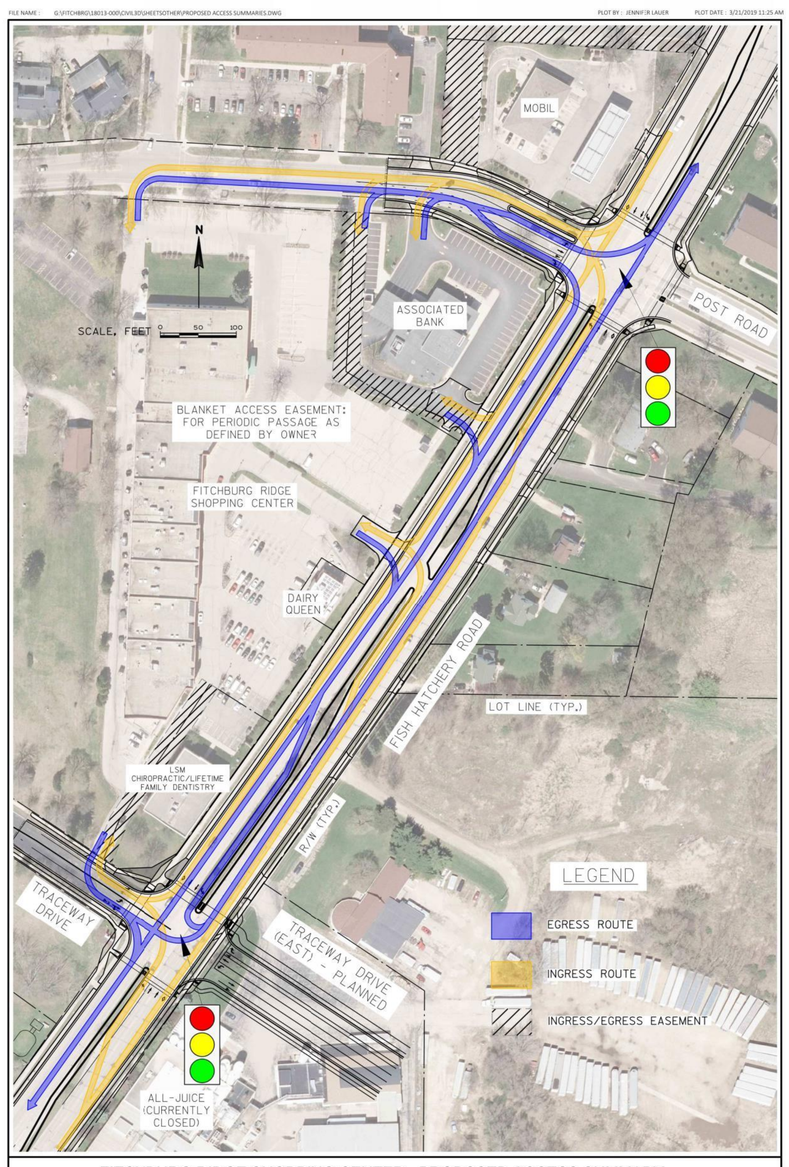
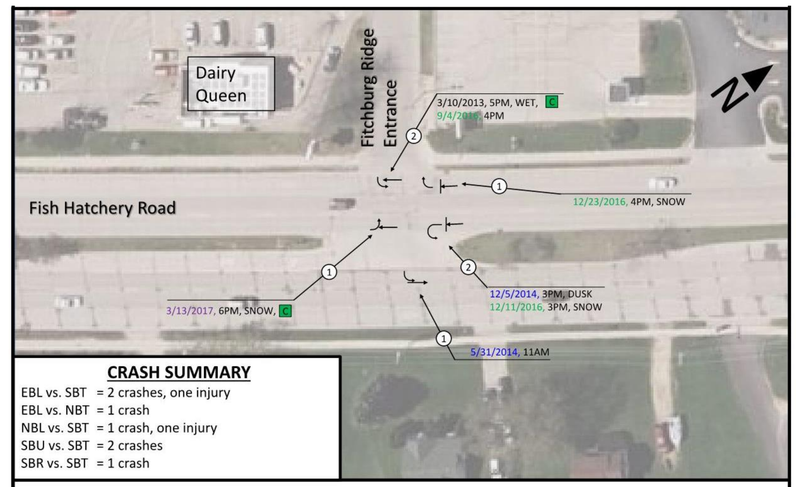
North Fish Hatchery Road Median Access Modifications
Fitchburg Ridge Shopping Center



FITCHBURG RIDGE SHOPPING CENTER - EXISTING ACCESS SUMMARY

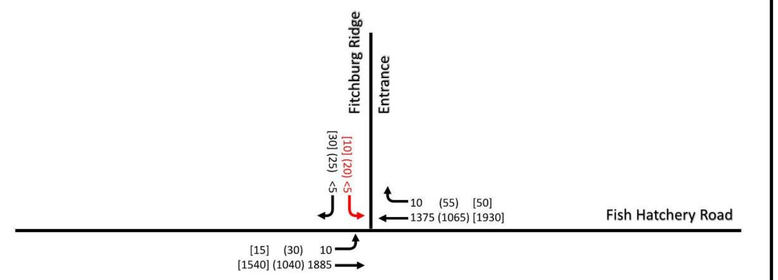


FITCHBURG RIDGE SHOPPING CENTER - PROPOSED ACCESS SUMMARY



CRASH SUMMARY

EBL vs. SBT = 2 crashes, one injury
EBL vs. NBT = 1 crash
NBL vs. SBT = 1 crash, one injury
SBU vs. SBT = 2 crashes
SBR vs. SBT = 1 crash



LEGEND

XX = AM Peak (7:30-8:30 AM)
(XX) = Mid Day Peak (12:00-1:00 PM)
[XX] = PM Peak (4:15-5:15 PM)
XX = Movement to be reassigned

233 Vehicles = Daily volume (6a – 8p) of movement to be reassigned

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Existing Crashes and Traffic Volumes

Summary

Left turns out of the Fitchburg Ridge Shopping Center driveway onto Fish Hatchery Road are over 15 times more likely to be involved in a crash than side-street left turns from the nearby traffic signals.

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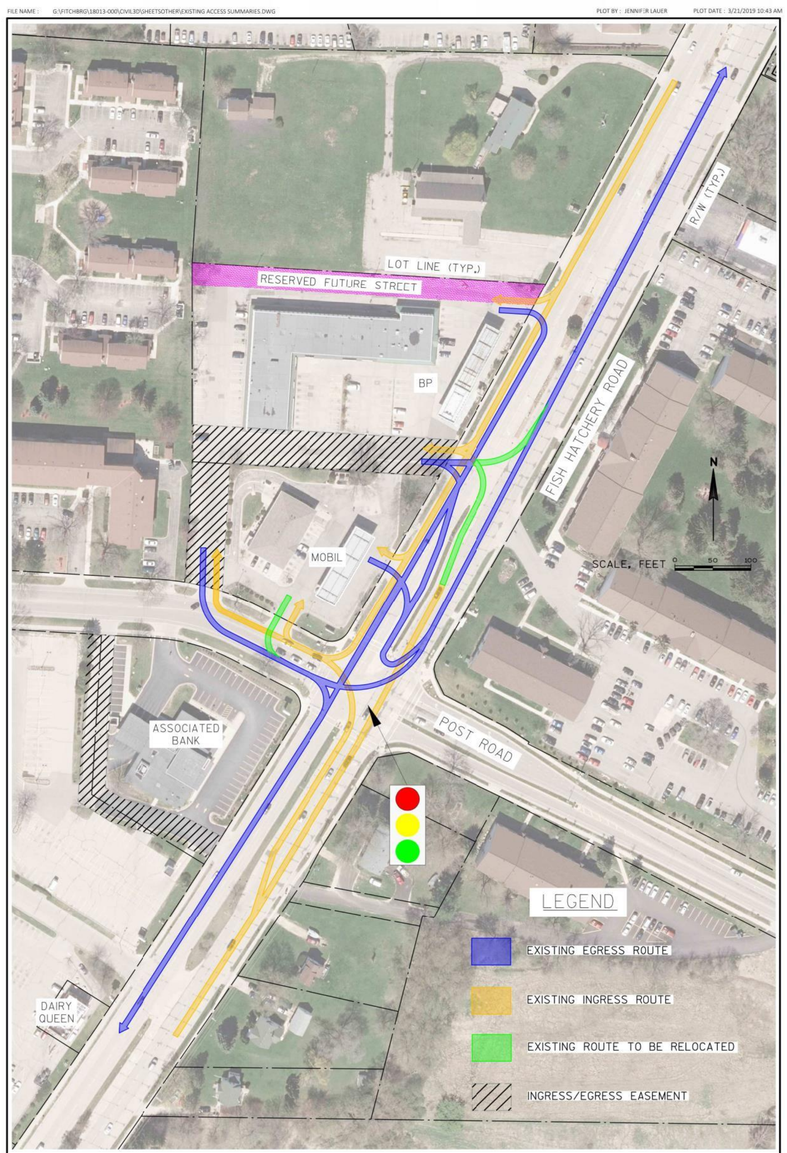
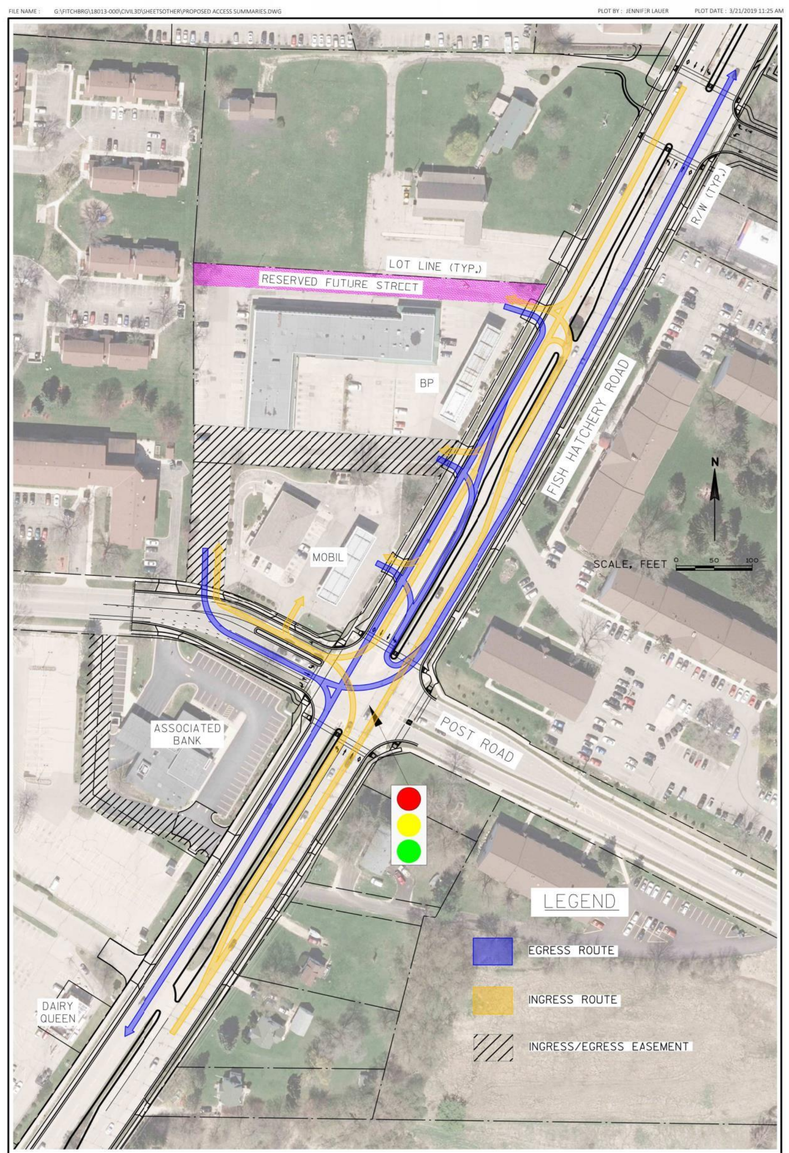
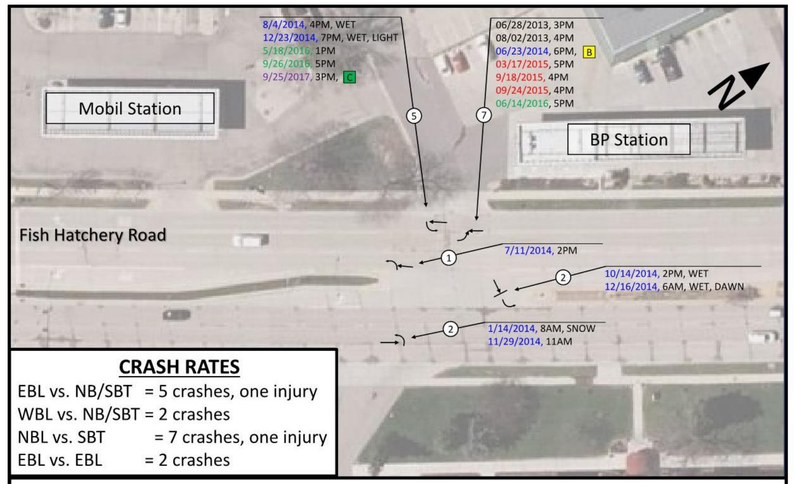
North Fish Hatchery Road Median Access Modifications
Mobil/BP Entrance



MOBIL/BP - EXISTING ACCESS SUMMARY

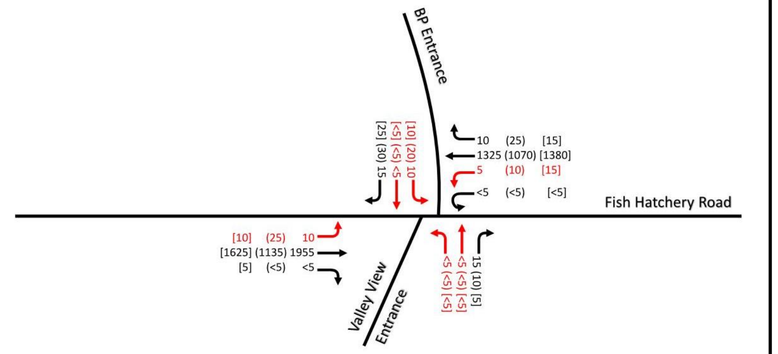


MOBIL/BP - PROPOSED ACCESS SUMMARY



CRASH RATES

EBL vs. NB/SBT = 5 crashes, one injury
WBL vs. NB/SBT = 2 crashes
NBL vs. SBT = 7 crashes, one injury
EBL vs. EBL = 2 crashes



LEGEND

XX = AM Peak (7:30-8:30 AM)
(XX) = Mid Day Peak (12:00-1:00 PM)
[XX] = PM Peak (4:15-5:15 PM)
XX = Movement to be reassigned

603 Vehicles = Daily volume (6a – 8p) of movements to be reassigned

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Existing Crashes and Traffic Volumes

Summary

Left turns out of BP/Mobil onto Fish Hatchery Road are over 40 times more likely to be involved in a crash than side-street left turns from the nearby traffic signals.

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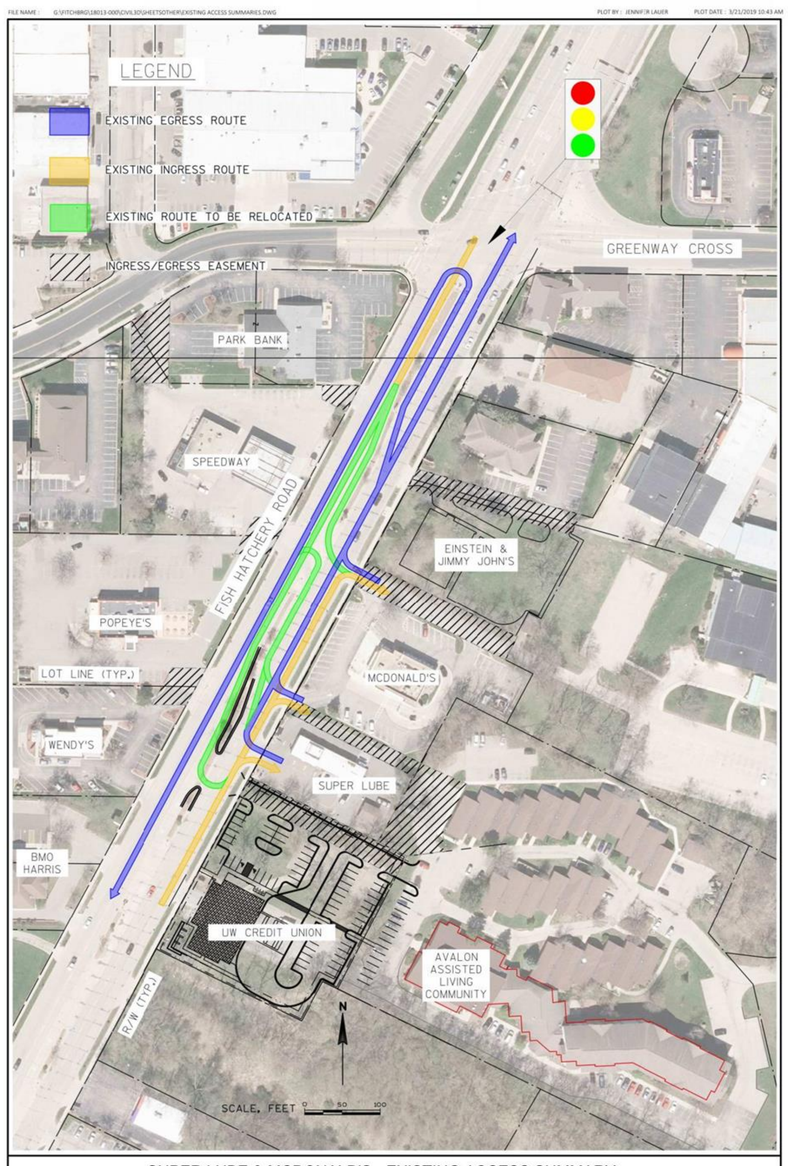
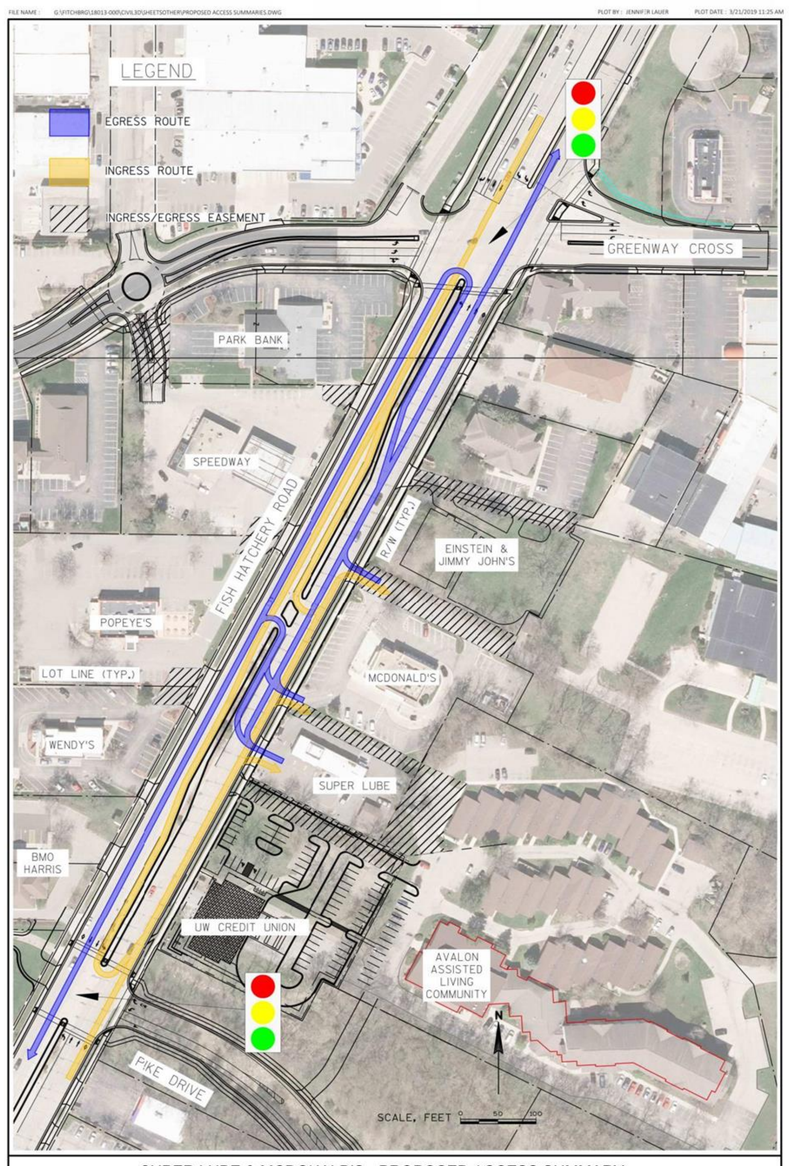
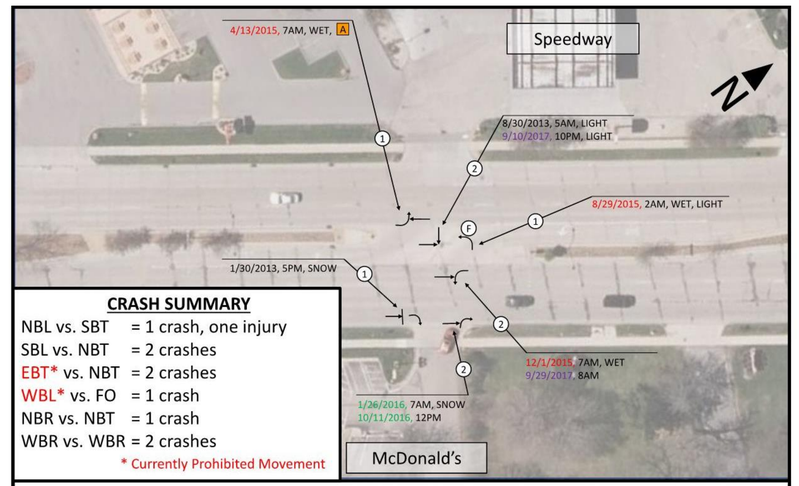
North Fish Hatchery Road Median Access Modifications
Super Lube and McDonald's Entrance



SUPER LUBE & MCDONALD'S - EXISTING ACCESS SUMMARY

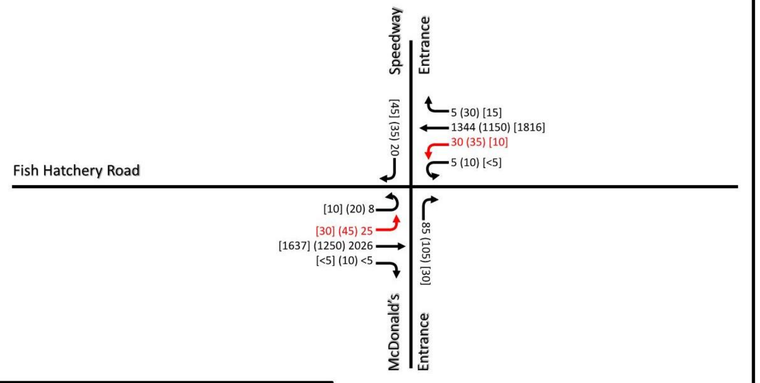


SUPER LUBE & MCDONALD'S - PROPOSED ACCESS SUMMARY



CRASH SUMMARY

NBL vs. SBT = 1 crash, one injury
SBL vs. NBT = 2 crashes
EBT* vs. NBT = 2 crashes
WBL* vs. FO = 1 crash
NBR vs. NBT = 1 crash
WBR vs. WBR = 2 crashes
* Currently Prohibited Movement



LEGEND

XX = AM Peak (7:30-8:30 AM)
(XX) = Mid Day Peak (12:00-1:00 PM)
[XX] = PM Peak (4:15-5:15 PM)
XX = Movement to be reassigned

570 Vehicles = Daily volume (6a – 8p) of movements to be reassigned

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Existing Crashes and Traffic Volumes

Summary

Contributing factors to these median opening crashes are believed to be the proximity to the Greenway Cross intersection and non-compliance with existing access restrictions.

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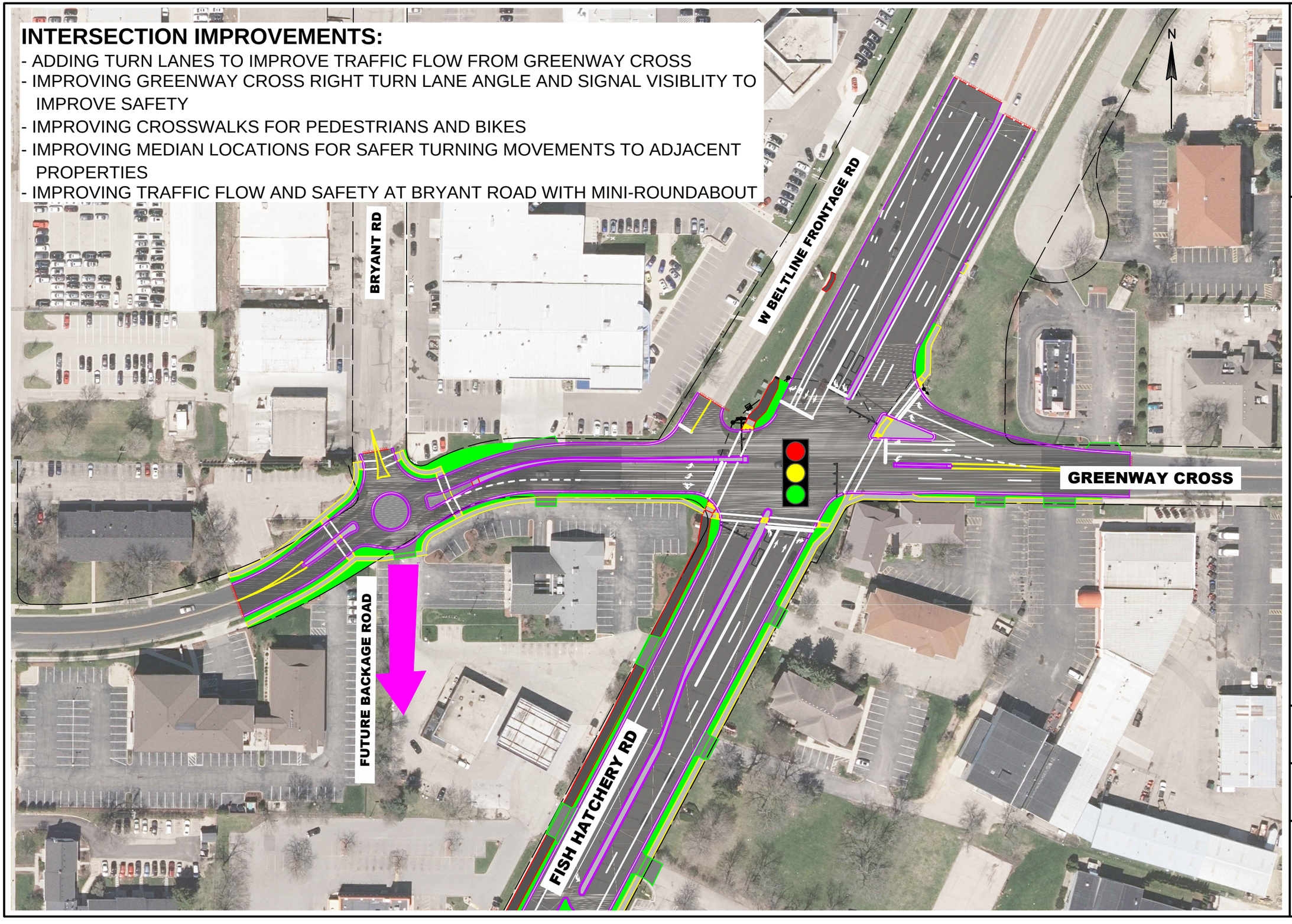
PLOT DATE : 4/8/2019 10:03 AM

PLOT BY : MICHAEL PLESSEL

FILE NAME : G:\FITCHBRG\18013-000\CIVIL3D\SHEETSOTHER\PIM 3\FHR_INTERSECTION EXHIBITS_PIM 3.DWG

INTERSECTION IMPROVEMENTS:

- ADDING TURN LANES TO IMPROVE TRAFFIC FLOW FROM GREENWAY CROSS
- IMPROVING GREENWAY CROSS RIGHT TURN LANE ANGLE AND SIGNAL VISIBLITY TO IMPROVE SAFETY
- IMPROVING CROSSWALKS FOR PEDESTRIANS AND BIKES
- IMPROVING MEDIAN LOCATIONS FOR SAFER TURNING MOVEMENTS TO ADJACENT PROPERTIES
- IMPROVING TRAFFIC FLOW AND SAFETY AT BRYANT ROAD WITH MINI-ROUNDABOUT



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GREENWAY CROSS INTERSECTION

Project No:	19-3488
Date:	MARCH 2019
Designed By:	MDP
Drafted By:	XXX
Checked By:	XXXX

Revisions: XX-XX-XXXX

SCALE, FEET

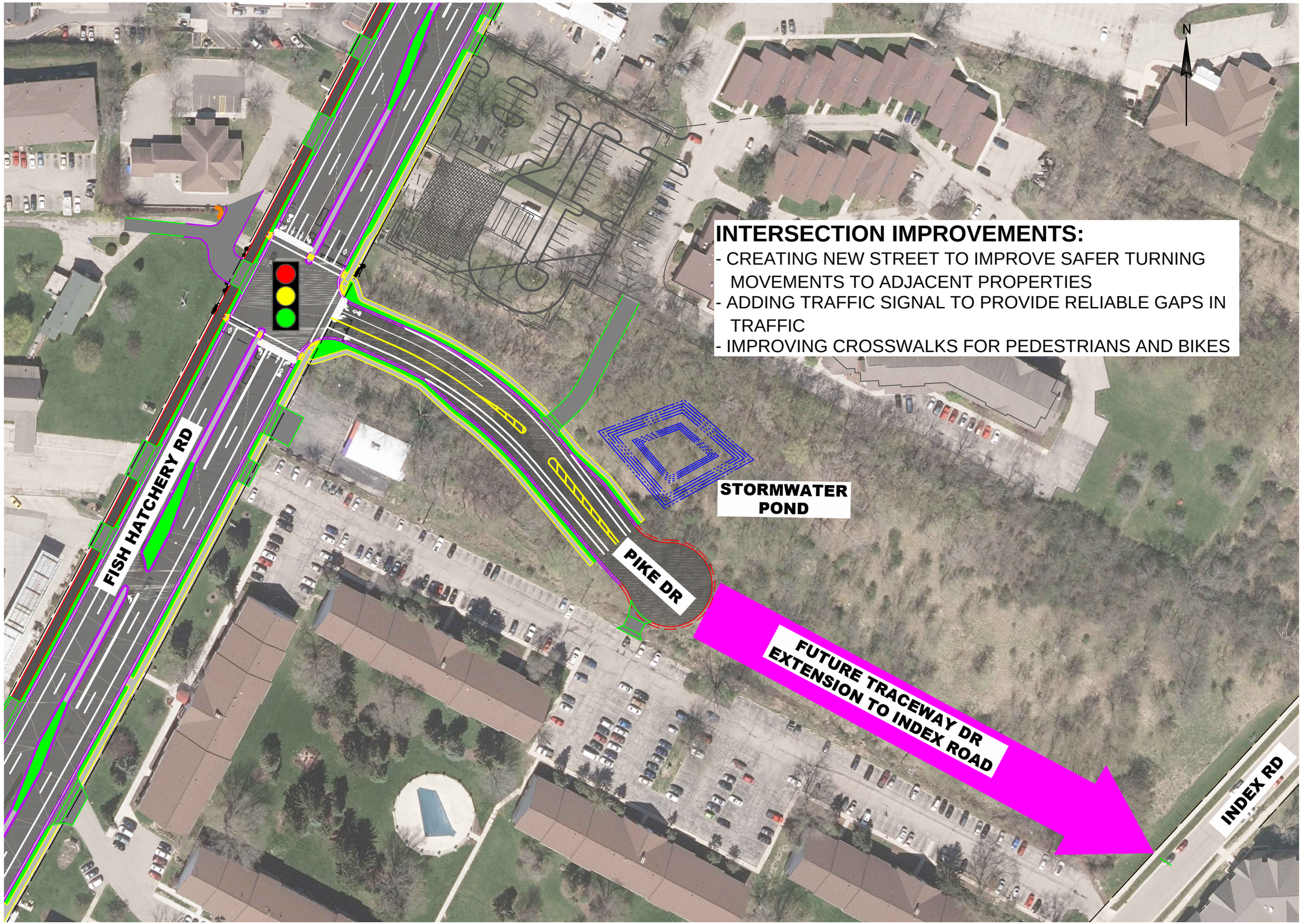
0 50 100

SHEET NO.

1 OF 1

PLOT DATE : 4/8/2019 10:03 AM

PLOT BY : MICHAEL PLESSEL



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PIKE DRIVE INTERSECTION

Project No:	19-3488
Date:	02-13-2019
Designed By:	MDP
Drafted By:	XXX
Checked By:	XXXX
Revisions:	03-22-2019

SCALE, FEET

0 50 100

SHEET NO.

1 OF 1

PLOT DATE : 4/8/2019 10:03 AM

PLOT BY : MICHAEL PLESSEL

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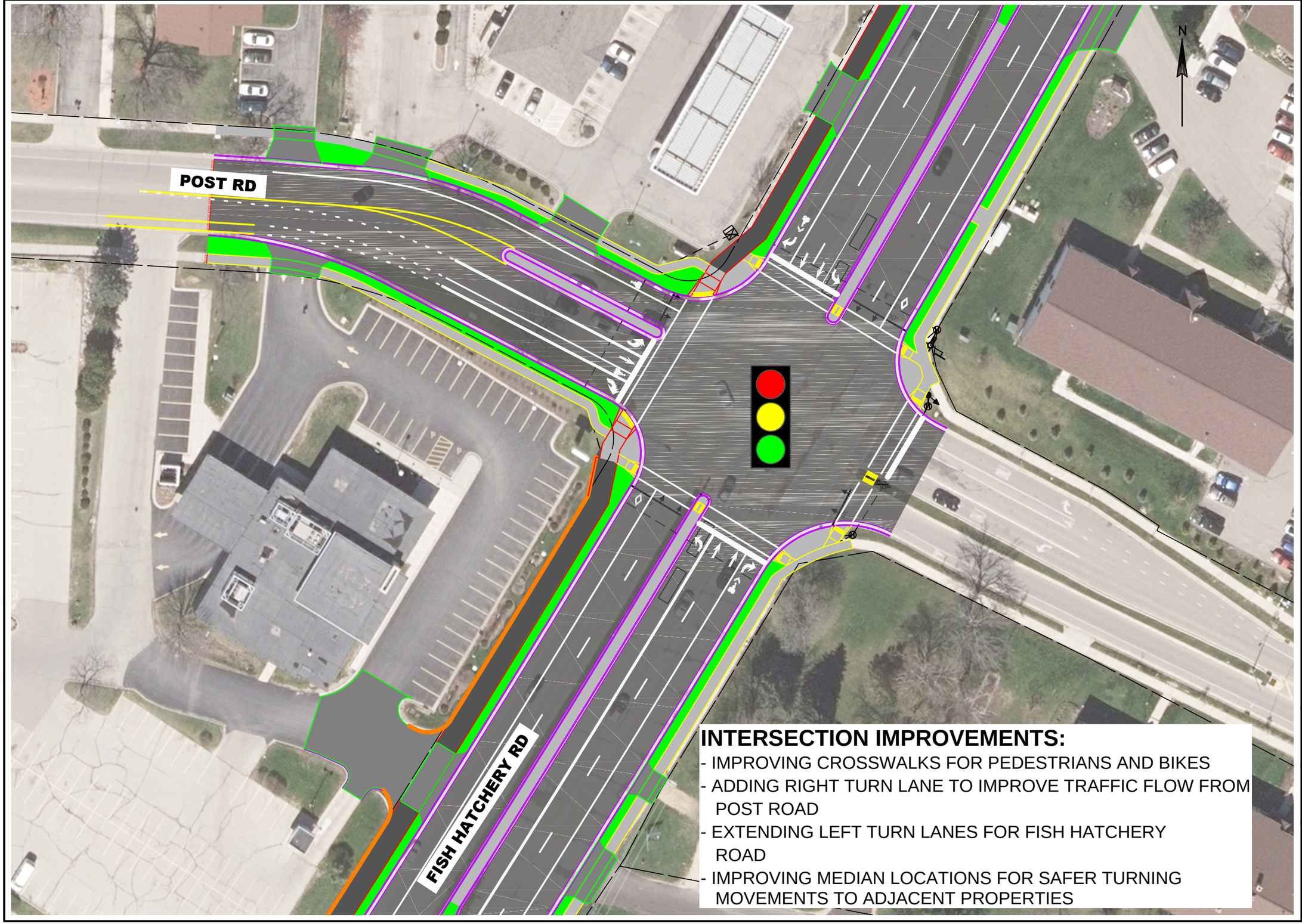

INTERSECTION IMPROVEMENTS:

- IMPROVING CROSSWALKS FOR PEDESTRIANS AND BIKES
- ADDING RIGHT TURN LANE TO IMPROVE TRAFFIC FLOW FROM POST ROAD
- EXTENDING LEFT TURN LANES FOR FISH HATCHERY ROAD
- IMPROVING MEDIAN LOCATIONS FOR SAFER TURNING MOVEMENTS TO ADJACENT PROPERTIES

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POST ROAD INTERSECTION

Project No:	19-3488
Date:	02-15-2019
Designed By:	MDP
Drafted By:	XXX
Checked By:	XXXX

Revisions: XX-XX-XXXX

SCALE, FEET

0 25 50

SHEET NO.

1 OF 1

PLOT DATE : 4/8/2019 10:02 AM

PLOT BY : MICHAEL PLESSEL

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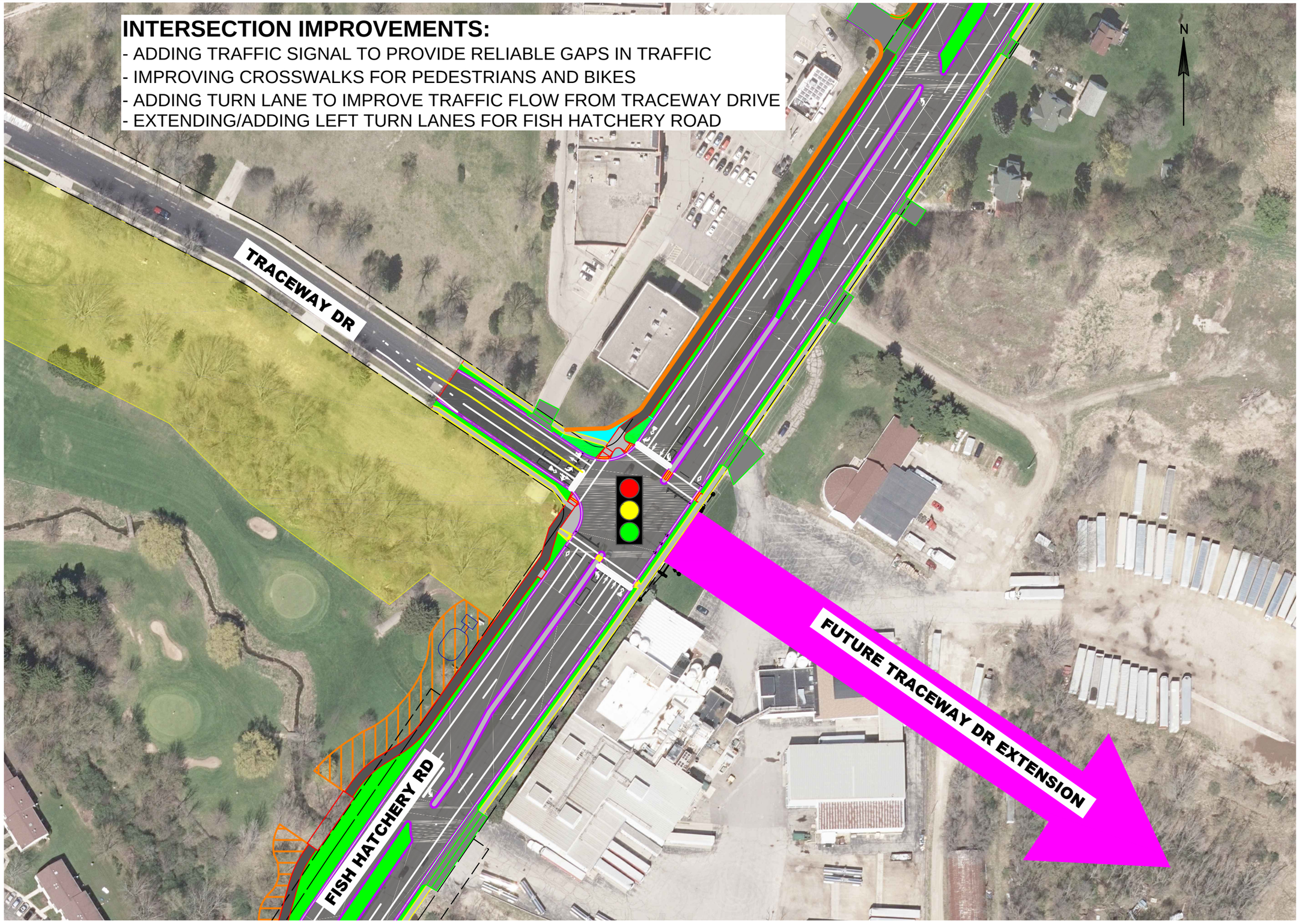
INTERSECTION IMPROVEMENTS:

- ADDING TRAFFIC SIGNAL TO PROVIDE RELIABLE GAPS IN TRAFFIC
- IMPROVING CROSSWALKS FOR PEDESTRIANS AND BIKES
- ADDING TURN LANE TO IMPROVE TRAFFIC FLOW FROM TRACEWAY DRIVE
- EXTENDING/ADDING LEFT TURN LANES FOR FISH HATCHERY ROAD



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TRACEWAY DRIVE
INTERSECTION

Project No:	XXXXXX-XX
Date:	XX-XX-XXXX
Designed By:	XXX
Drafted By:	XXX
Checked By:	XXXX

Revisions: XX-XX-XXXX

SCALE, FEET

0 50 100

SHEET NO.

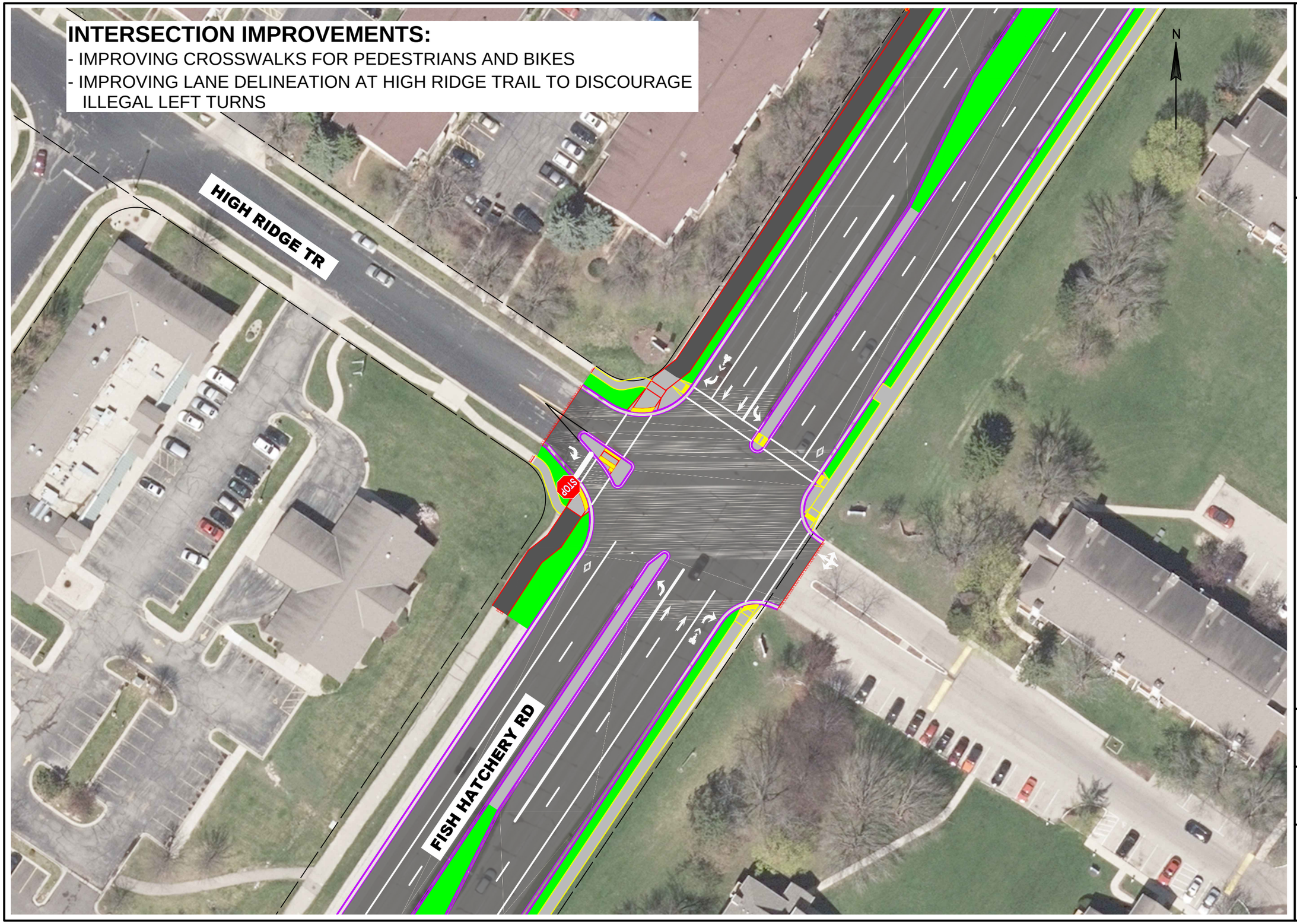
1 OF 1

PLOT BY : MICHAEL PLESSEL PLOT DATE : 4/8/2019 10:03 AM

FILE NAME : G:\FITCHBRG\18013-000\CIVIL3D\SHEETSOTHER\PIM 3\FHR_INTERSECTION EXHIBITS_PIM 3.DWG

INTERSECTION IMPROVEMENTS:

- IMPROVING CROSSWALKS FOR PEDESTRIANS AND BIKES
- IMPROVING LANE DELINEATION AT HIGH RIDGE TRAIL TO DISCOURAGE ILLEGAL LEFT TURNS



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HIGH RIDGE TRAIL INTERSECTION

Project No:	19-3488
Date:	02-25-2019
Designed By:	MDP
Drafted By:	XXX
Checked By:	XXXX
Revisions:	03-19-2019

SCALE, FEET

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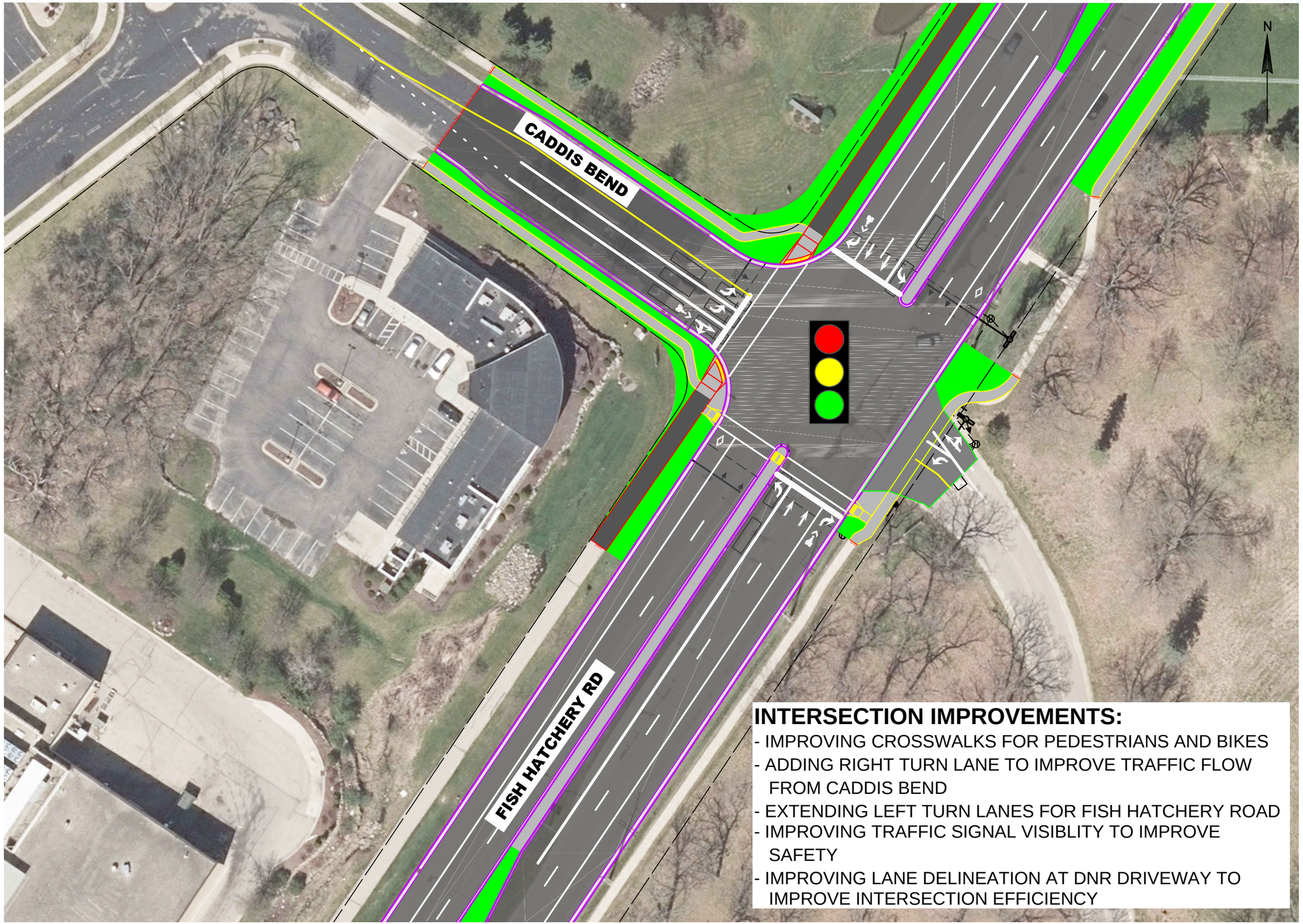
SHEET NO.

1 OF 1



INTERSECTION IMPROVEMENTS:

- IMPROVING CROSSWALKS FOR PEDESTRIANS AND BIKES
- ADDING RIGHT TURN LANE TO IMPROVE TRAFFIC FLOW FROM CADDIS BEND
- EXTENDING LEFT TURN LANES FOR FISH HATCHERY ROAD
- IMPROVING TRAFFIC SIGNAL VISIBLITY TO IMPROVE SAFETY
- IMPROVING LANE DELINEATION AT DNR DRIVEWAY TO IMPROVE INTERSECTION EFFICIENCY

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CITY OF FITCHBURG

CADDIS BEND INTERSECTION

Project No:	19-3488
Date:	02-20-2019
Designed By:	MDP
Drafted By:	XXX
Checked By:	XXXX

Revisions: 03-21-2019

SCALE, FEET

0 25 50

SHEET NO.

1 OF 1

PLOT BY : MICHAEL PLESSEL PLOT DATE : 4/8/2019 10:03 AM

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PLOT BY : MICHAEL PLESSEL

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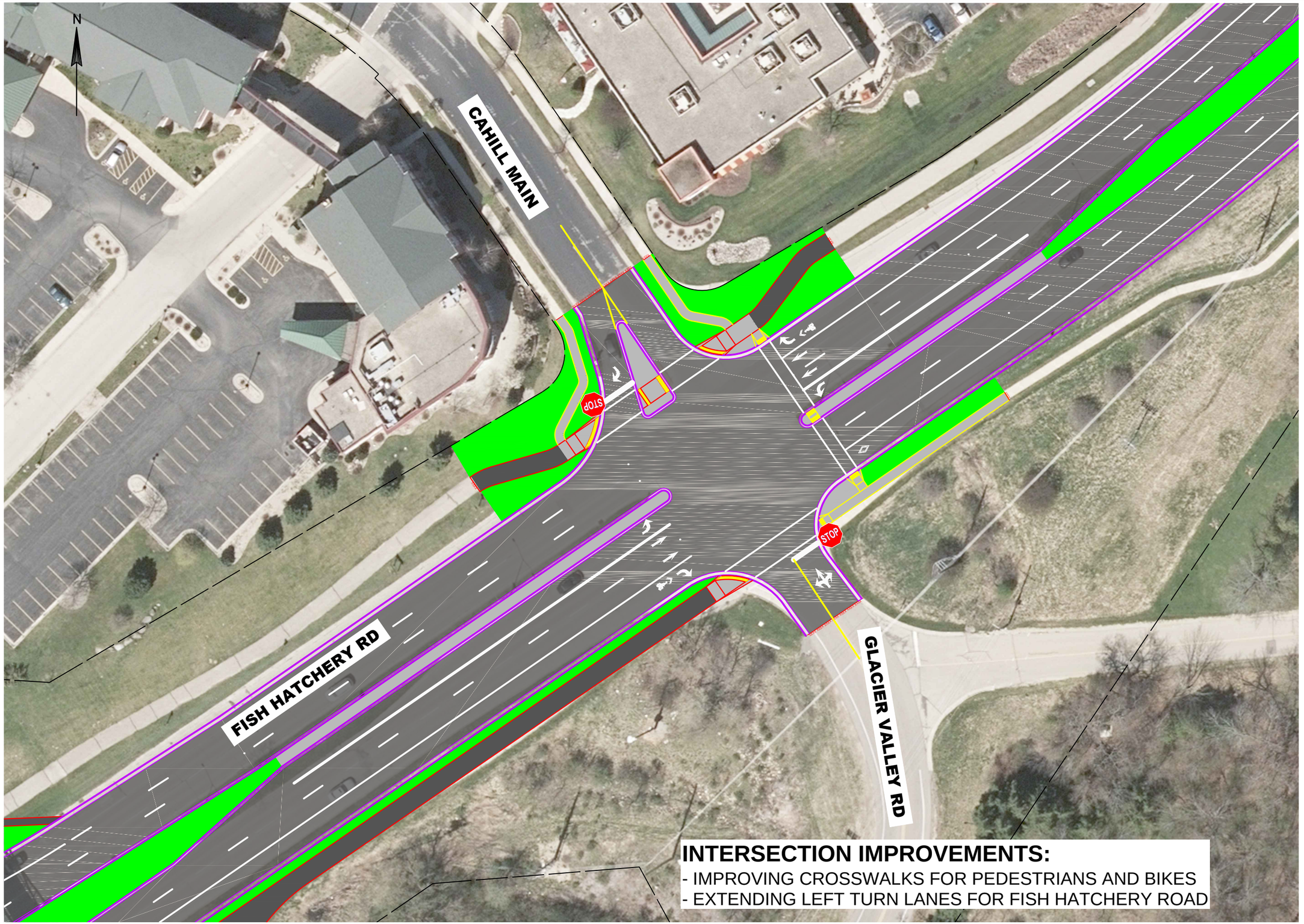

INTERSECTION IMPROVEMENTS:

- IMPROVING CROSSWALKS FOR PEDESTRIANS AND BIKES
- EXTENDING LEFT TURN LANES FOR FISH HATCHERY ROAD

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CAHILL MAIN INTERSECTION

Project No:	19-3488
Date:	02-25-2019
Designed By:	MDP
Drafted By:	XXX
Checked By:	XXXX

Revisions: 03-22-2019

SCALE, FEET

0 25 50

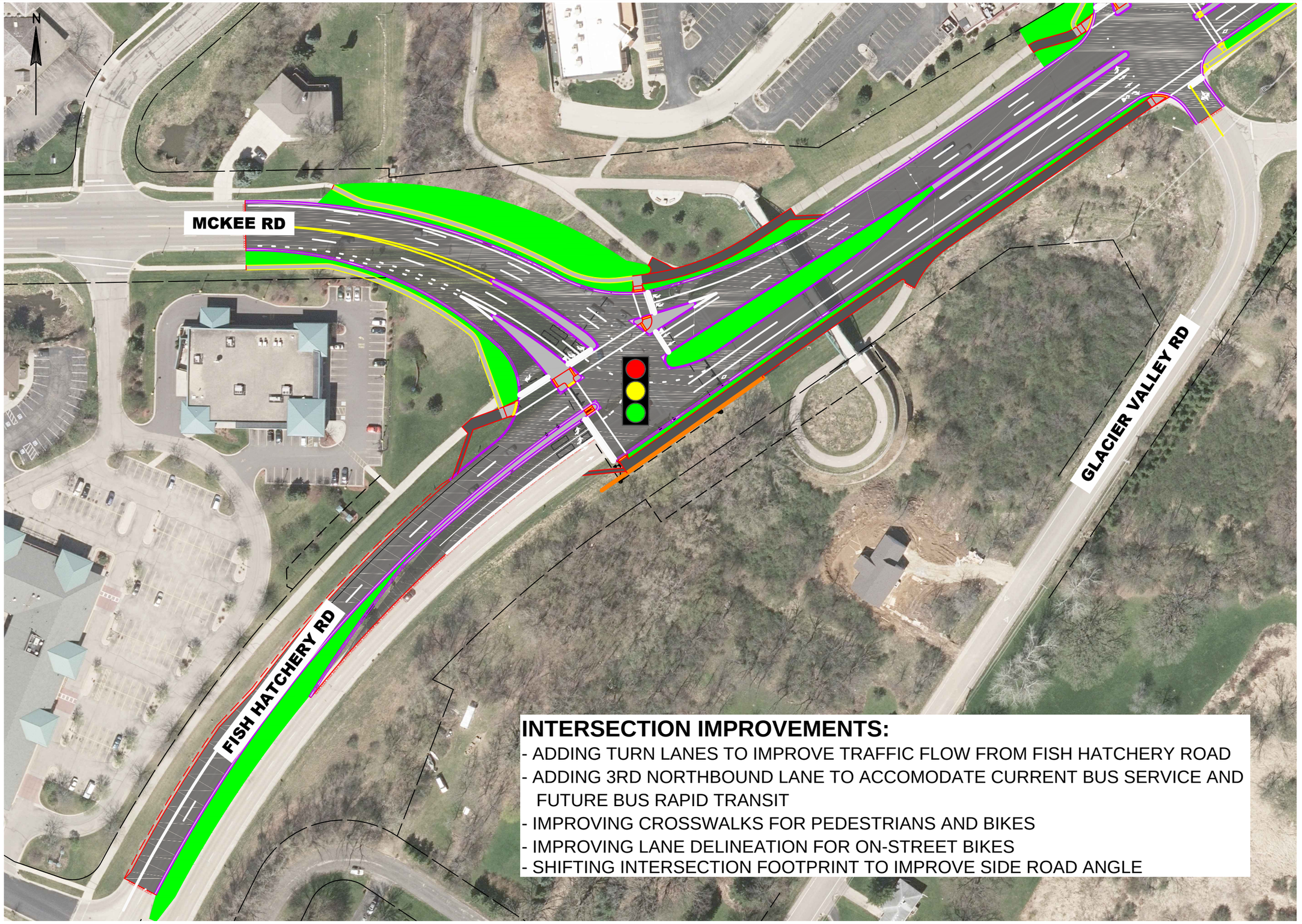
SHEET NO.

1 OF 1

PLOT DATE : 4/8/2019 10:03 AM

PLOT BY : MICHAEL PLESSEL

FILE NAME : G:\FITCHBRG\18013-000\CIVIL3D\SHEETSOTHER\PIM 3\FHR_INTERSECTION EXHIBITS_PIM 3.DWG



INTERSECTION IMPROVEMENTS:

- ADDING TURN LANES TO IMPROVE TRAFFIC FLOW FROM FISH HATCHERY ROAD
- ADDING 3RD NORTHBOUND LANE TO ACCOMODATE CURRENT BUS SERVICE AND FUTURE BUS RAPID TRANSIT
- IMPROVING CROSSWALKS FOR PEDESTRIANS AND BIKES
- IMPROVING LANE DELINEATION FOR ON-STREET BIKES
- SHIFTING INTERSECTION FOOTPRINT TO IMPROVE SIDE ROAD ANGLE

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MCKEE ROAD INTERSECTION

Project No:	19-3488
Date:	02-13-2019
Designed By:	MDP
Drafted By:	XXX
Checked By:	XXXX
Revisions:	03-19-2019

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1 OF 1

Fish Hatchery Road | Streetscape Improvement Districts

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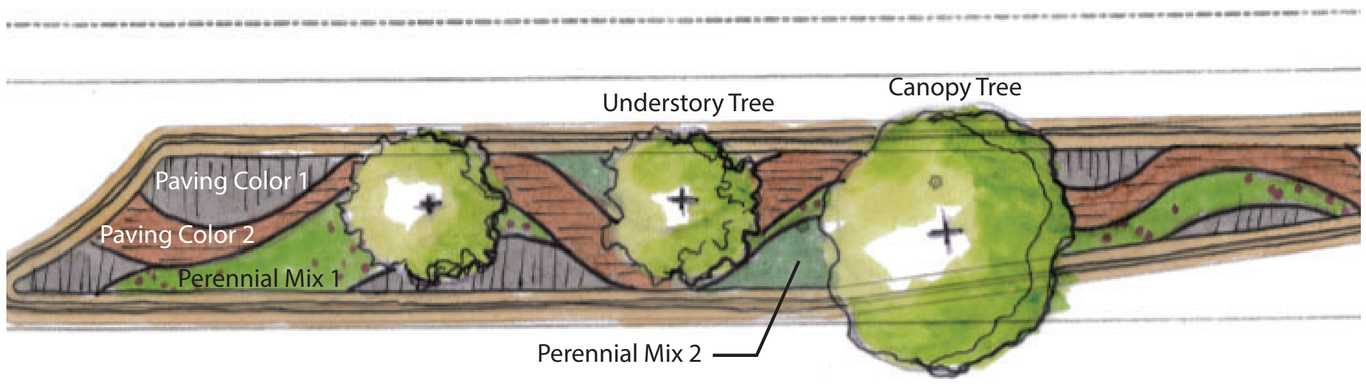
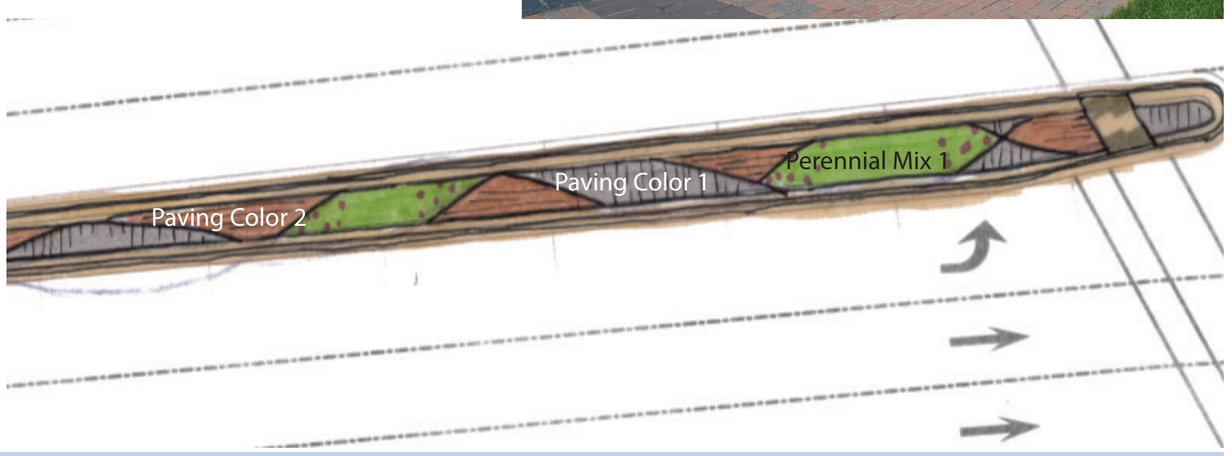
Fish Hatchery Road | Streetscape Design Example Blocks

High Level Treatment

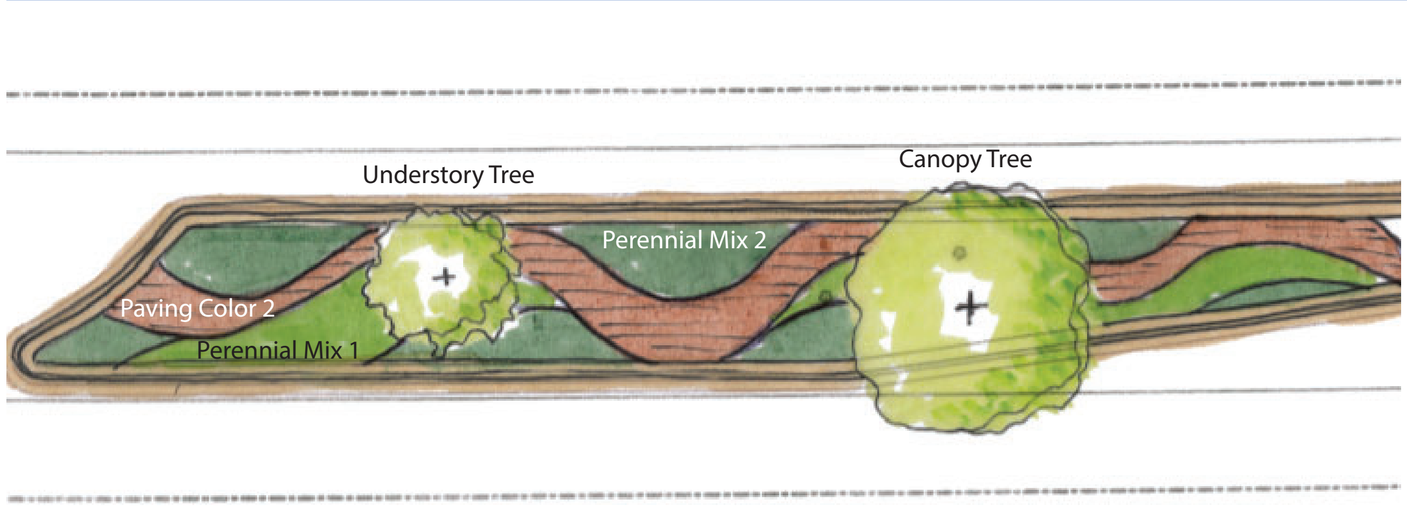
- Mix of Deciduous and Understory Trees
- Decorative pavement- 2-3 colors/textures
- Perennial understory planting

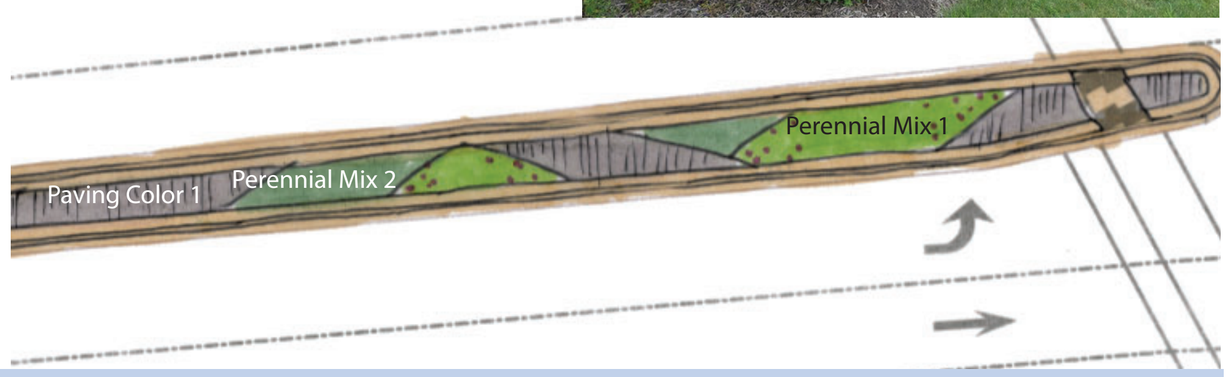




Medium Level Treatment

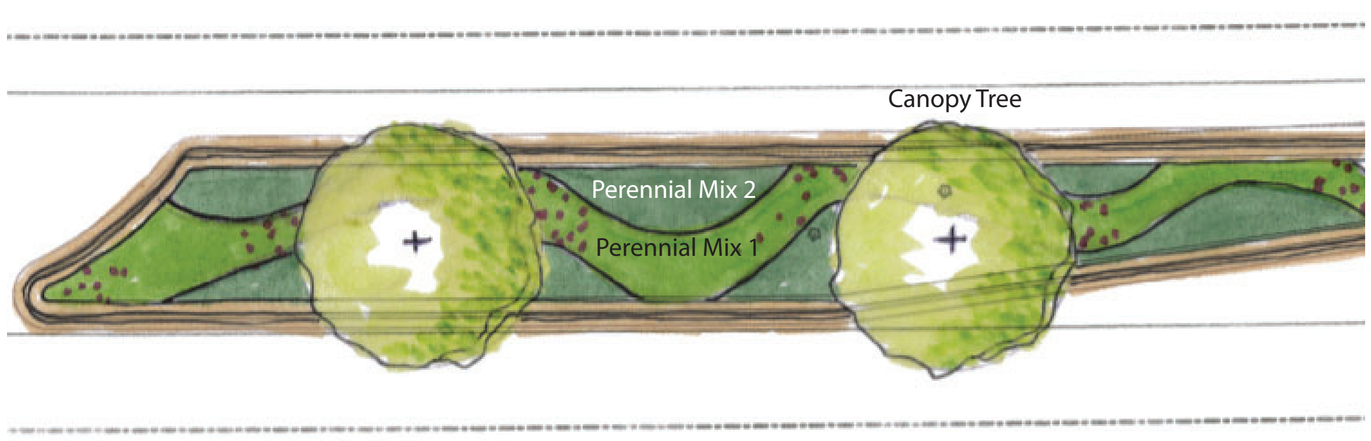
- Mix of Deciduous and Understory Trees, but reduced use of understory trees overall
- Decorative pavement- 1 color/texture
- Perennial understory planting
- Theme carried through via plant massing/ textural constrast rather than paving vs. planting contrast

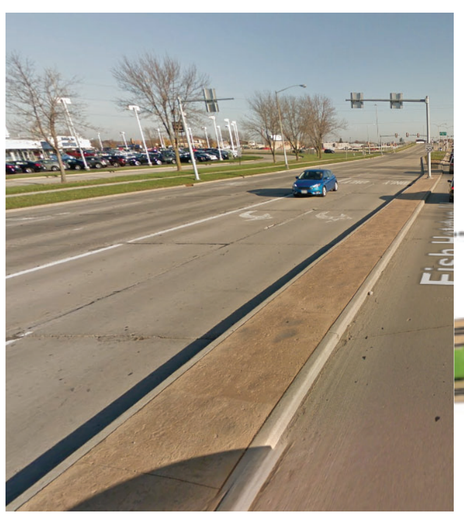




Low Level Treatment

- Deciduous trees only
- Minimal paving except where needed due to space or grading issues
- Perennial understory planting but more natural appearance overall
- Theme carried through via plant height/ massing/textural contrast





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North Fish Hatchery Road
Decorative Street Lighting – Alternatives

"Edge"

The City of Fitchburg uses the "Edge" model street light throughout the City (shown above and to the right).

This street light performs efficiently, but is fairly basic in appearance. This light will be used for the project unless a more decorative alternative is selected.

"Omega"

"Skyliner"

"Millennia"

The Fish Hatchery Road project is considering using a more decorative looking street light than the "Edge". The 3 options shown above have been identified as potential decorative lights that could be used for the project.

The project will improve the amount of lighting at intersections, and along pedestrian areas, regardless of the type of street light that is selected.

Please Let Us Know What You Think of These Alternatives!!

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North Fish Hatchery Road
-Construction Staging-

Strategies to Minimize Disruption During Construction

Strategy	Benefit
Limit the most intense construction activities to a single year (2020)	Minimizes duration of impact to neighborhoods and businesses
Require minimized construction time north of Post Rd	Allows north end of the project to remain fully open to traffic for longer Shortens disruption of Beltline traffic Maintains access for businesses in this segment
Provide a signed detour route for County Highway D	Helps redirect commuter traffic to other routes Preserves capacity of the roadway for local and business traffic
Hire a Business Outreach Manager	Offers a "one-stop" source for communication and advocacy during construction
Create mitigation plan between the City of Fitchburg and City of Madison	Allows quick and proactive response to neighborhood concerns with traffic diversion issues on local streets
Sequence and expedite intersection construction	Provides more continuous access for local traffic, business traffic, and emergency response
Coordinate with Metro Transit	Provides plan for temporary bus stops and changes to bus routes
Work with businesses before and during construction	Maintains access for customers and deliveries

Madison Beltline Hwy

Summer 2020 - Fall 2020
- Reconstruct southbound FHR
- Traffic will utilize northbound FHR (orange and yellow) with one lane in each direction plus turn lanes
- Construction time in this segment will be minimized to reduce impact to businesses and residents

Fall 2019
- Install underground utilities near Greenway Cross intersection

Greenway Cross

Fish Hatchery Rd

Index Rd

Post Rd

Post Rd

Traceway Dr

Nine Springs Golf Course

Summer 2020 - Fall 2020
- Reconstruct southbound FHR
- Traffic will utilize northbound FHR (orange and yellow) with one lane in each direction plus turn lanes
- North of Post Rd to Greenway Cross remains open to traffic in both the northbound and southbound lanes (yellow and blue), except when blue segment is under construction

High Ridge Trl

Fish Hatchery Rd

Summer 2020
Northbound Phase B
- Reconstruct northbound FHR
- Traffic will utilize southbound FHR (blue and green) with one lane in each direction plus turn lanes
- Construction time in this segment will be minimized to reduce impact to businesses and residents

Breckenridge Ct

Caddis Bend

Cahill Main

Fall 2019
- Expand a portion of the CTH PD intersection to the south
- Install temporary intersection accommodations including signals, median, and crossover construction
- Traffic will utilize existing lanes

Spring 2020 - Summer 2020
Northbound Phase A
- Reconstruct northbound FHR
- Traffic will utilize southbound FHR (green) with one lane in each direction plus turn lanes
- North of Post Rd to Greenway Cross initially remains open to traffic in both the northbound and southbound lanes (yellow and blue)

PD

McKee Rd

Brendan Ave

Glacier Valley Rd

Spring 2021
Entire Corridor
- Finish median work and final restoration
- Remove any remaining temporary pavement
- Traffic will utilize permanent lanes with short term lane closures

N

Fitchburg

COUNTY of DANE WISCONSIN 1839

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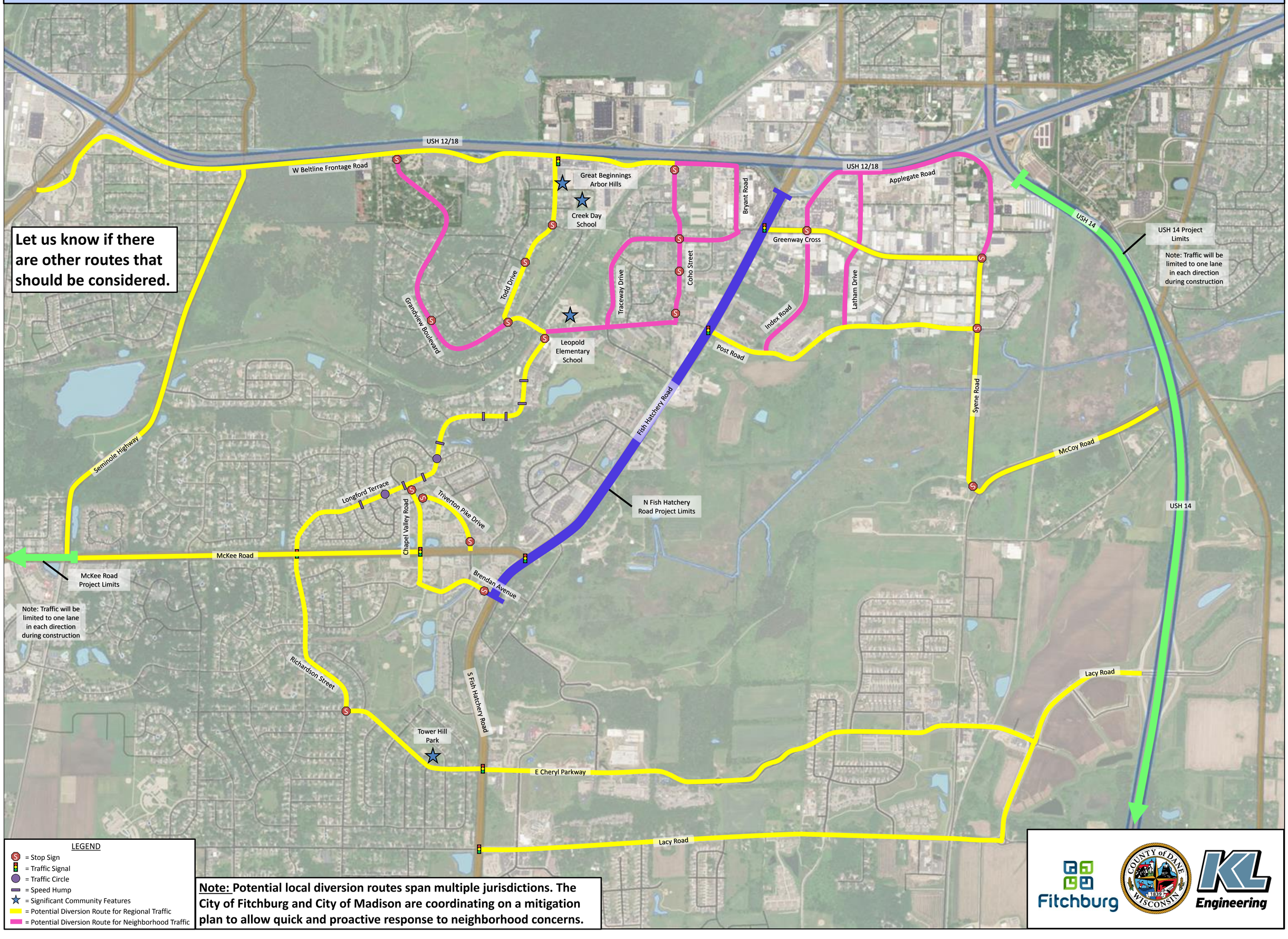
North Fish Hatchery Road Potential Local Diversion Routes in 2020



North Fish Hatchery Road - Regional Projects in 2019

Verona Rd
Fitchrona Rd-Raymond Rd
- Reconstruction
- Two lanes in each direction will be provided

Fitchrona Rd/ Nesbitt Rd
Intersection Improvement
- Roundabout construction
- Detour will be provided

Beltline
Seminole Hwy-IH 39/90
- Resurfacing
- Nightime work with lane closures
- Some weekend work

Fish Hatchery Rd
McKee Rd/CTH PD-US 12/18
- Construciton staging
- Utility work
- Traffic will use existing lanes with some lane closures

East Cheryl Pkwy
- Roundabout construction
- Intersection improvements
- Detour will be provided

MADISON
VERONA
FITCHBURG
OREGON
Raymond Rd
McKee Rd
Lacy Rd
Nesbitt Rd
Verona Rd
Seminole Hwy
Beltline Hwy
Fitchrona Rd
Fish Hatchery Rd
12
14
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151
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138
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Fitchburg
KL Engineering

*Map is based on project information available as of 4/5/2019

North Fish Hatchery Road - Regional Projects in 2020

Potential Fish Hatchery Rd West Detour Route

McKee Rd/CTH PD
Fitchrona Rd-Commerce Dr
- Reconstruction
- One lane in each direction will be provided

McKee Rd/CTH PD
Commerce Dr-Seminole Hwy
- Reconstruction
- One lane in each direction will be provided

Fish Hatchery Rd
McKee Rd/CTH PD-US 12/18
- Reconstruction
- One lane in each direction will be provided

Potential Fish Hatchery Rd East Detour Route

USH 14
STH 138 - US 12/18
- Bridge projects, cross overs and shoulder widening
- Some ramp closures
- At least one lane in each direction will be provided

MADISON
VERONA
FITCHBURG
OREGON
Beltline Hwy
McKee Rd
Verona Rd
Seminole Hwy
Fitchrona Rd
Fish Hatchery Rd
Lacy Rd
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Fitchburg
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*Map is based on project information available as of 4/5/2019

North Fish Hatchery Road - Regional Projects in 2021

Beltline
Whitney Way-IH 39/90
- Hard shoulder running project
- Traffic impacts TBD

Fish Hatchery Rd
McKee Rd/CTH PD-US 12/18
- Restoration
- Traffic will use permanent lanes with median closures

USH 14/ CTH MM
Intersection
- Park and ride, salt shed and maintenance shed construction
- Lane and shoulder closures at roundabout

USH 14
STH 138 - US 12/18
- Bridge projects, cross overs and shoulder widening
- Some ramp closures
- At least one lane in each direction will be provided

CTH MM/North Main St
Grove St-Oregon Limits
- Reconstruction
- Traffic impacts / detours TBD

MADISON
VERONA
FITCHBURG
OREGON
Whitney Way
Verona Rd
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Beltline Hwy
McKee Rd
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Fish Hatchery Rd
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Fitchburg
Engineering

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