Public Informational Meeting

STATE PROJECT NO. 84-108

ROUNDABOUT AT THE INTERSECTION OF ROUTES 110 AND 111

TOWN OF MONROE

Project Manager - Scott Bushee, P.E.
Project Engineer - Jordan Pike, P.E.
Project Designer - Jessica Darling
Property Agent - Thomas Melzen

Contact Information

Public Informational Meeting

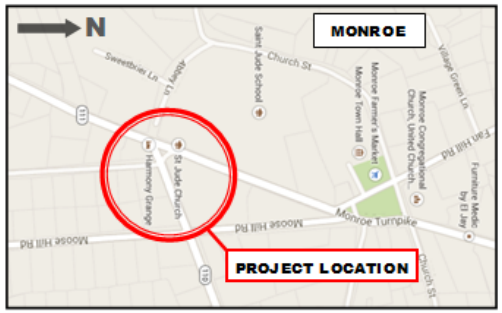
STATE PROJECT NO. 84-108

ROUNDABOUT AT THE INTERSECTION OF
ROUTE 110 (SHELTON RD) AND ROUTE 111 (MONROE TPKE)

TOWN OF MONROE

MONROE TOWN HALL
7 FAN HILL ROAD
MONROE, CT

TUESDAY,
MARCH 24, 2015 - 7:00 P.M.



REPRESENTATIVES OF THE
CONNECTICUT DEPARTMENT OF TRANSPORTATION:

DIVISION OF HIGHWAY DESIGN

William Britnell, P.E.
Transportation Principal Engineer
Telephone No.: (860) 594-3274

Scott Bushee, P.E.
Project Manager
Telephone No.: (860) 594-2079

Jordan Pike, P.E.
Project Engineer
Telephone No.: (860) 594-2762

Jessica Darling
Project Designer
Telephone No.: (860) 594-3277

OFFICE OF RIGHTS-OF-WAY

Thomas Melzen
Property Agent
Telephone No.: (860) 594-2451

Contact Information

Roundabout at the Intersection of Route 110 and Route 111, Town of Monroe.

Additional comments, made in writing, should be mailed to:

Mr. William W. Britnell, P.E.
Transportation Principal Engineer
Connecticut Department of Transportation
P.O. Box 317546
Newington, CT 06131-7546

or

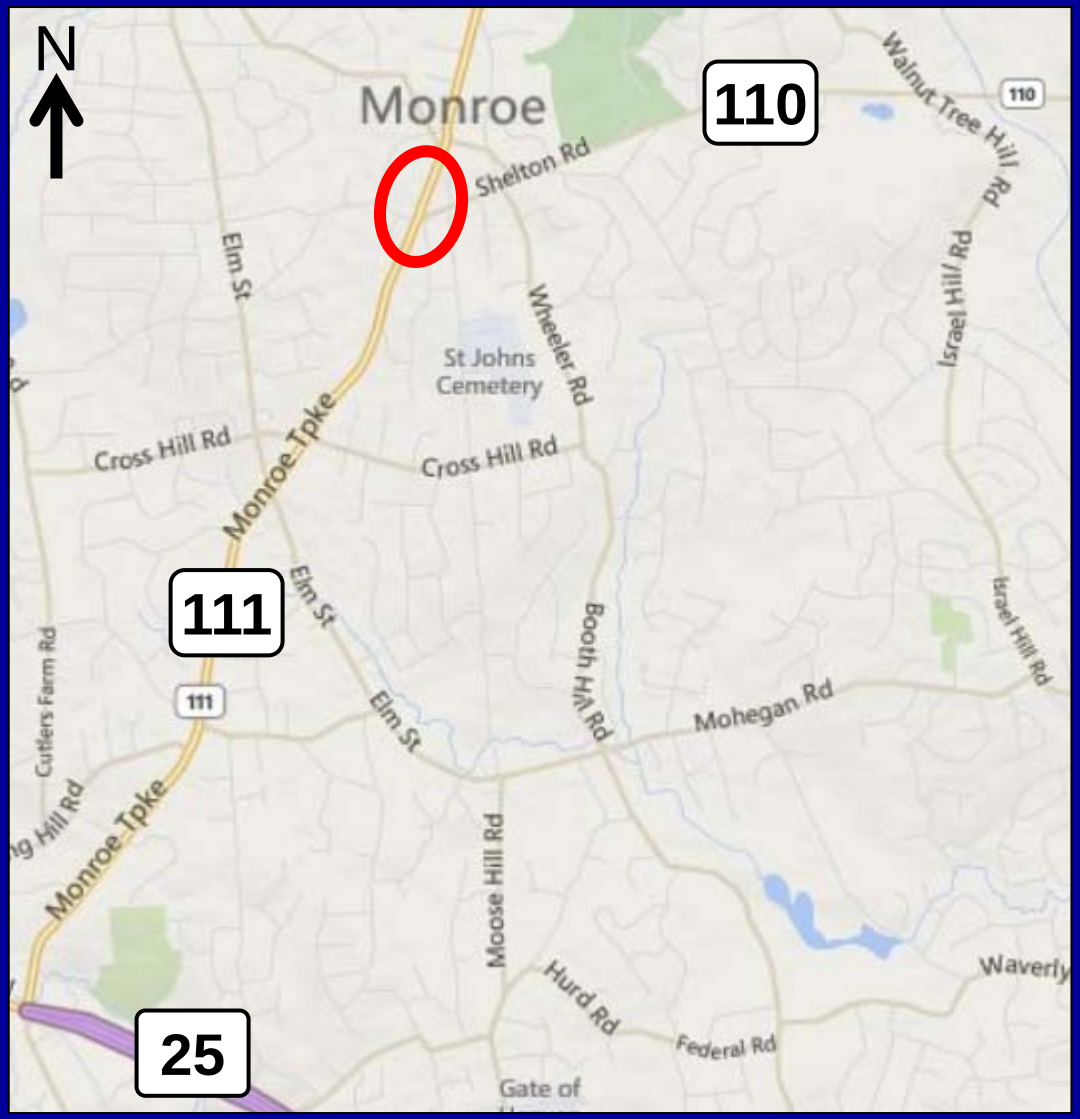
E-mailed to:

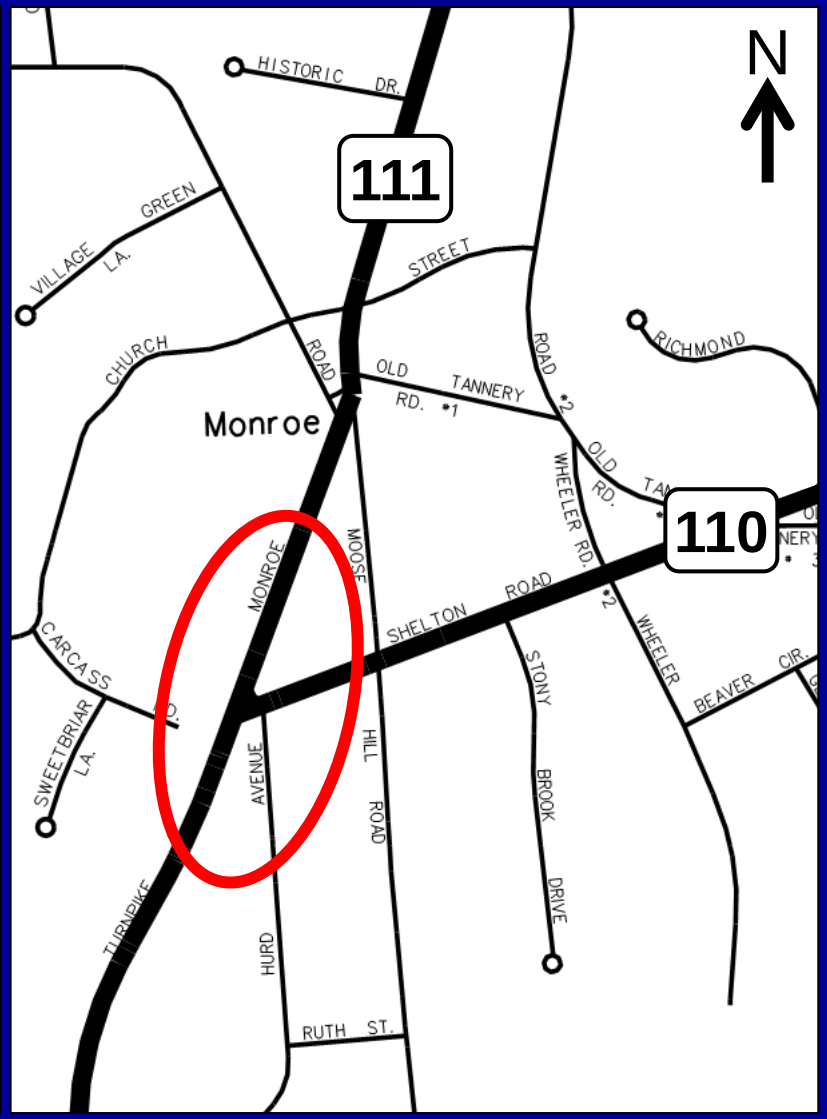
William.Britnell@ct.gov

Comments must be postmarked or emailed by: **Tuesday, April 7, 2015**
Please use the following reference: **Subject: State Project No. 84-108**

- Thank you for your attendance & feedback -

Project Location





Project History

April 2011

Request from Resident to Review Safety at Intersection

-----Original Message-----
From:
Sent: Tuesday, April 26, 2011 11:02 AM
To: zRepresentative DebraLee Hovey
Subject: Online Contact Form RE: traffic light corner of 110 and 111

traffic light corner of 110 and 111

Taxes, Education, Budget

Dear Debra -- I have lived in Monore for 30 + years -- our town has grown -- the traffic flow from 110 and 111 needs to be addressed -- when the weather is bad it is hard to see on coming cars -- I am surprised that the fire department has not made an issue of this -- school busses also -- we have complained about this often -- we are told that 110 is a state road -- can you help us get a traffic light at this intersection -- Thank you

Project History

March 2012

Public Info Meeting

- Safety Improvements

April 2012

Town endorses Roundabout

September 2012

Public Info Meeting

- Hurd Avenue

November 2012

Town endorses Hurd Avenue Cul-de-Sac

Project History

March 2012

Public Info Meeting

- Safety Improvements

April 2012

Town endorses Roundabout

September 2012

Public Info Meeting

- Hurd Avenue

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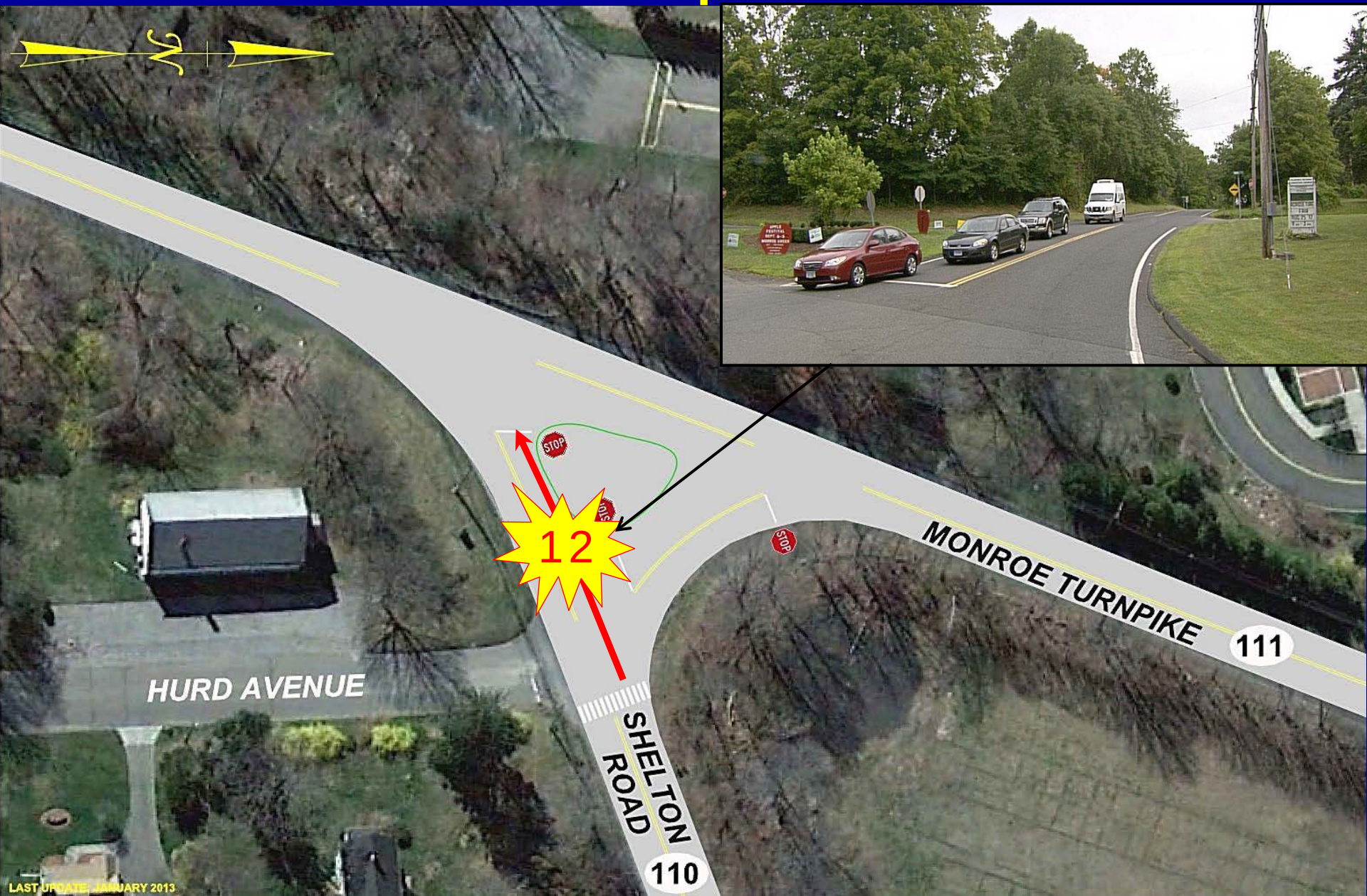
Public Info Meeting

- Hurd Avenue

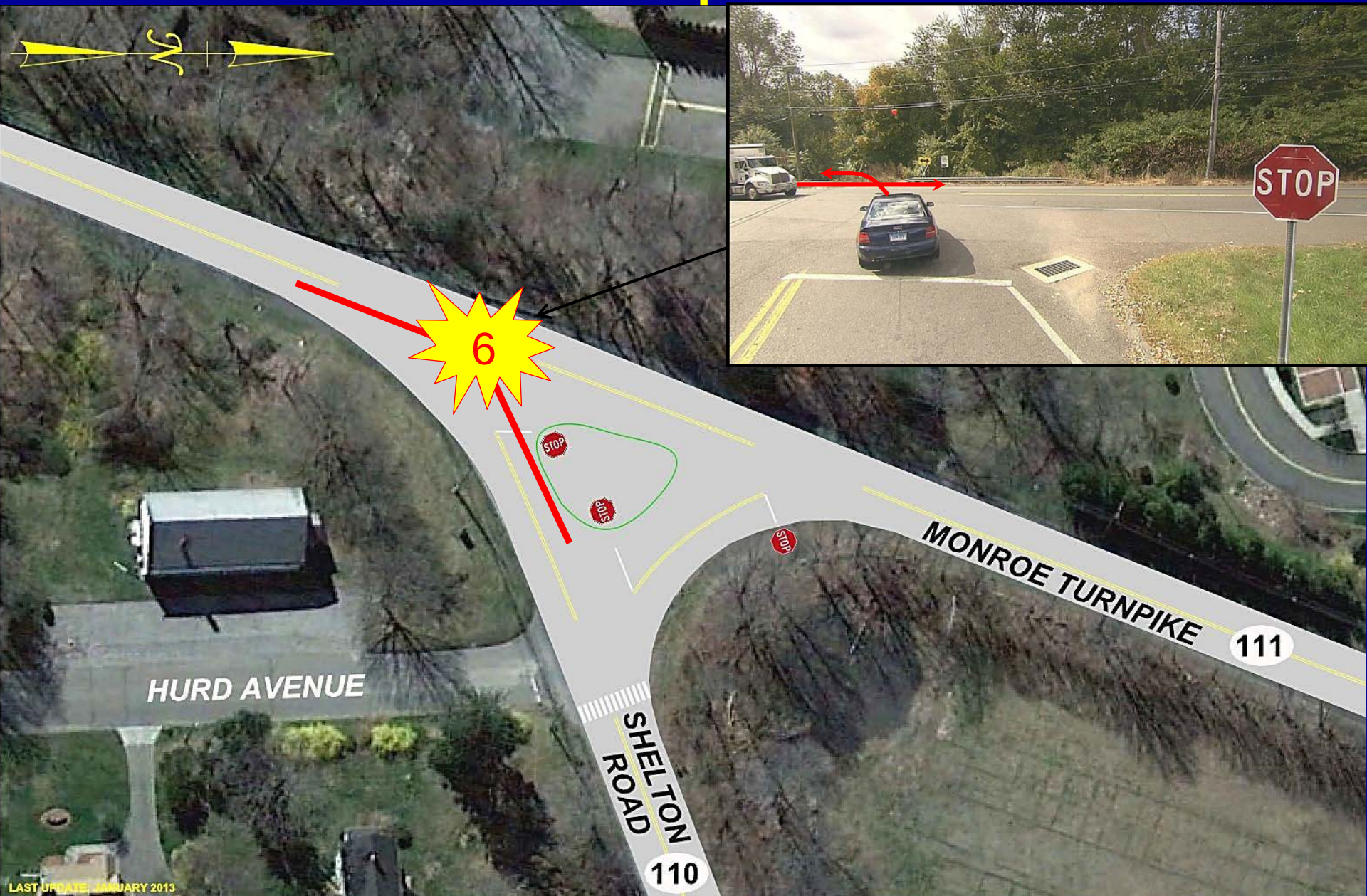
November 2012

Town endorses Hurd Avenue Cul-de-Sac

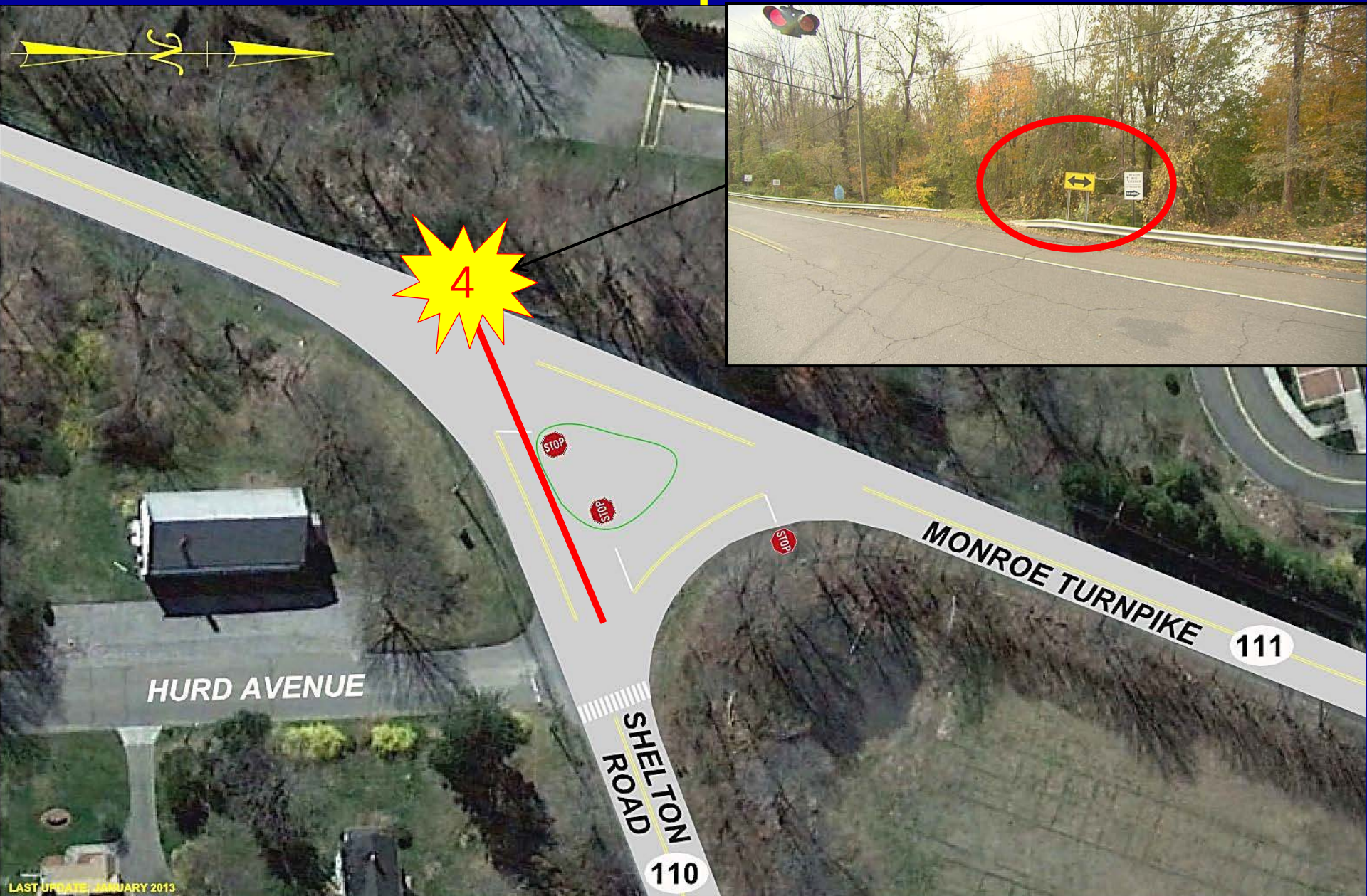
Crash Experience



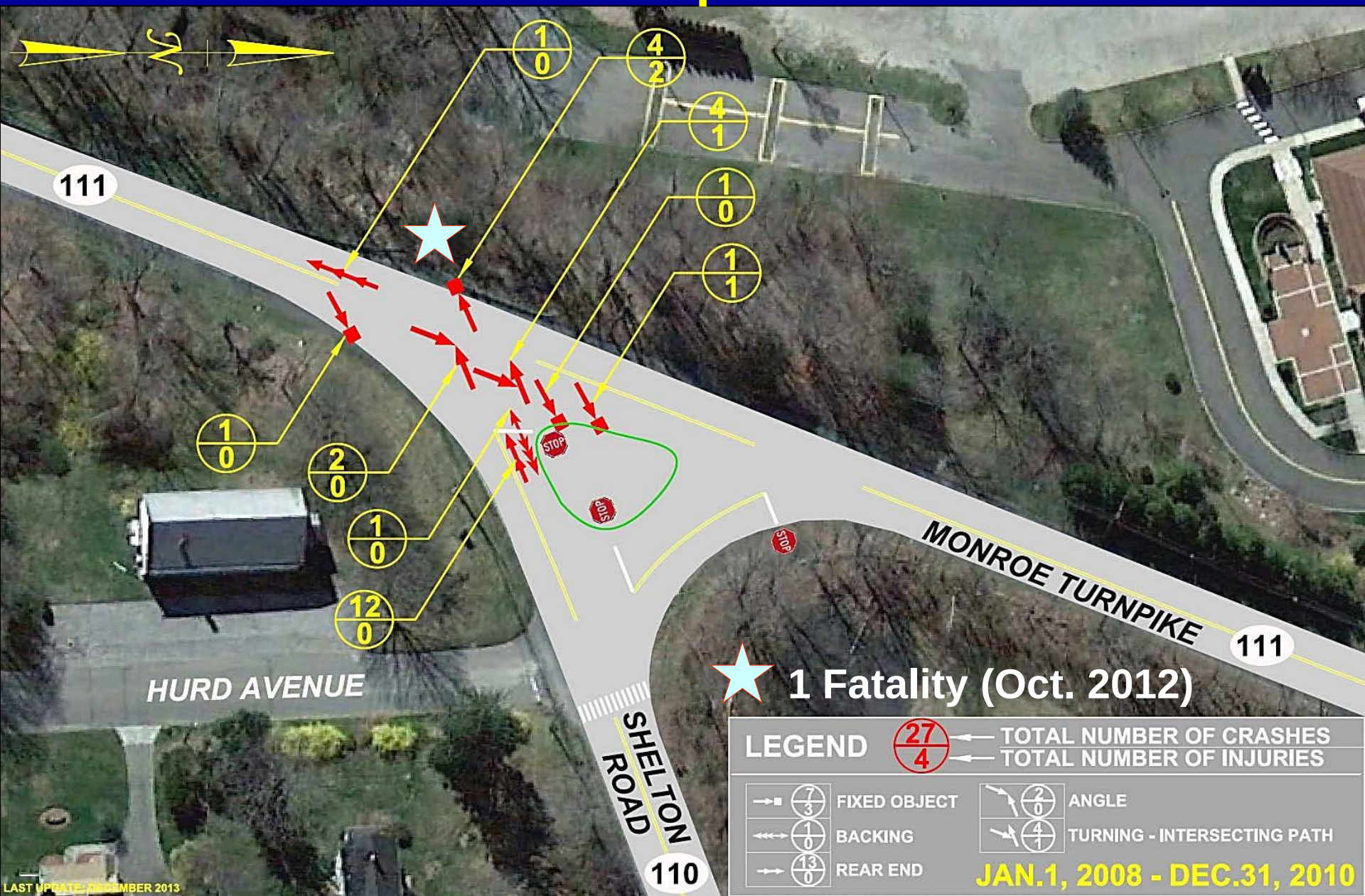
Crash Experience



Crash Experience



Crash Experience



Existing Conditions

Installation of a **roundabout** will help alleviate traffic congestion and improve capacity on Route 110.

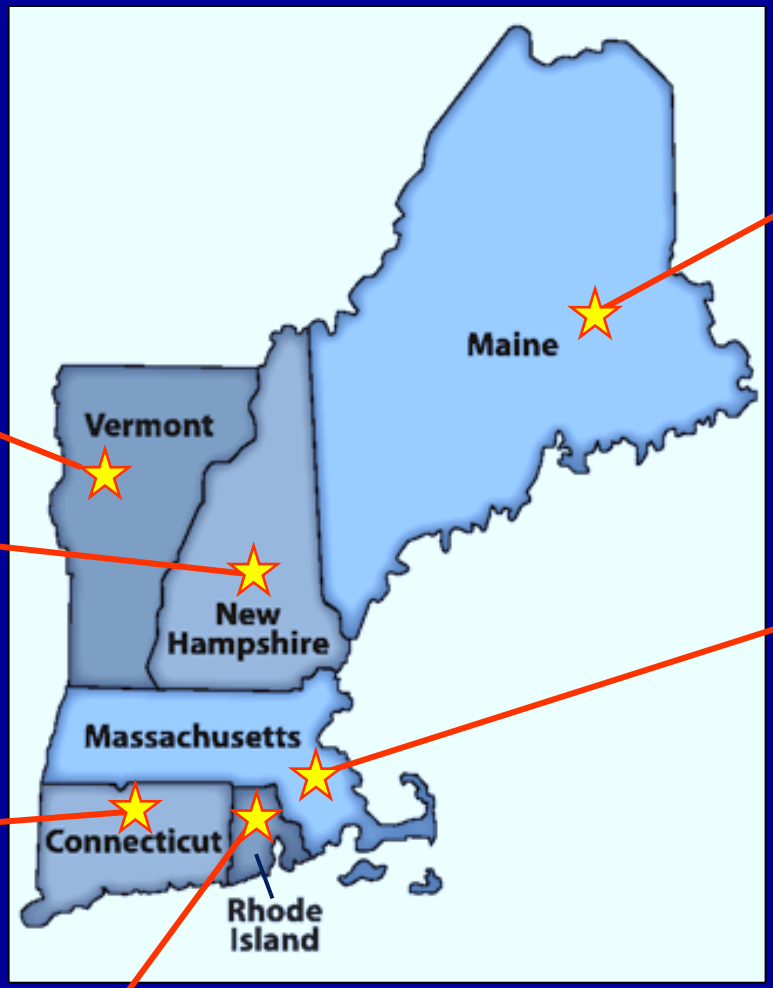
What is a Modern Roundabout?

- Circular intersection often confused with old “traffic circles” or rotaries
- Used in Europe and Australia for many years
- Becoming more popular in U.S. due to reductions in crashes and congestion

Convert Rotary to a Roundabout Kingston, NY

Photo: New York State DOT

Roundabouts in New England



ME: 20+

VT: 10+

NH: 10+

MA: 20+

CT: 4

RI: 10+

Over 2,000 in the U.S. Today

Reasons for Improved Safety

- Lower speeds
- No left turns
- Fewer decisions to make / less information to process
- Reduced number of conflict points

BY TIM PADGETT

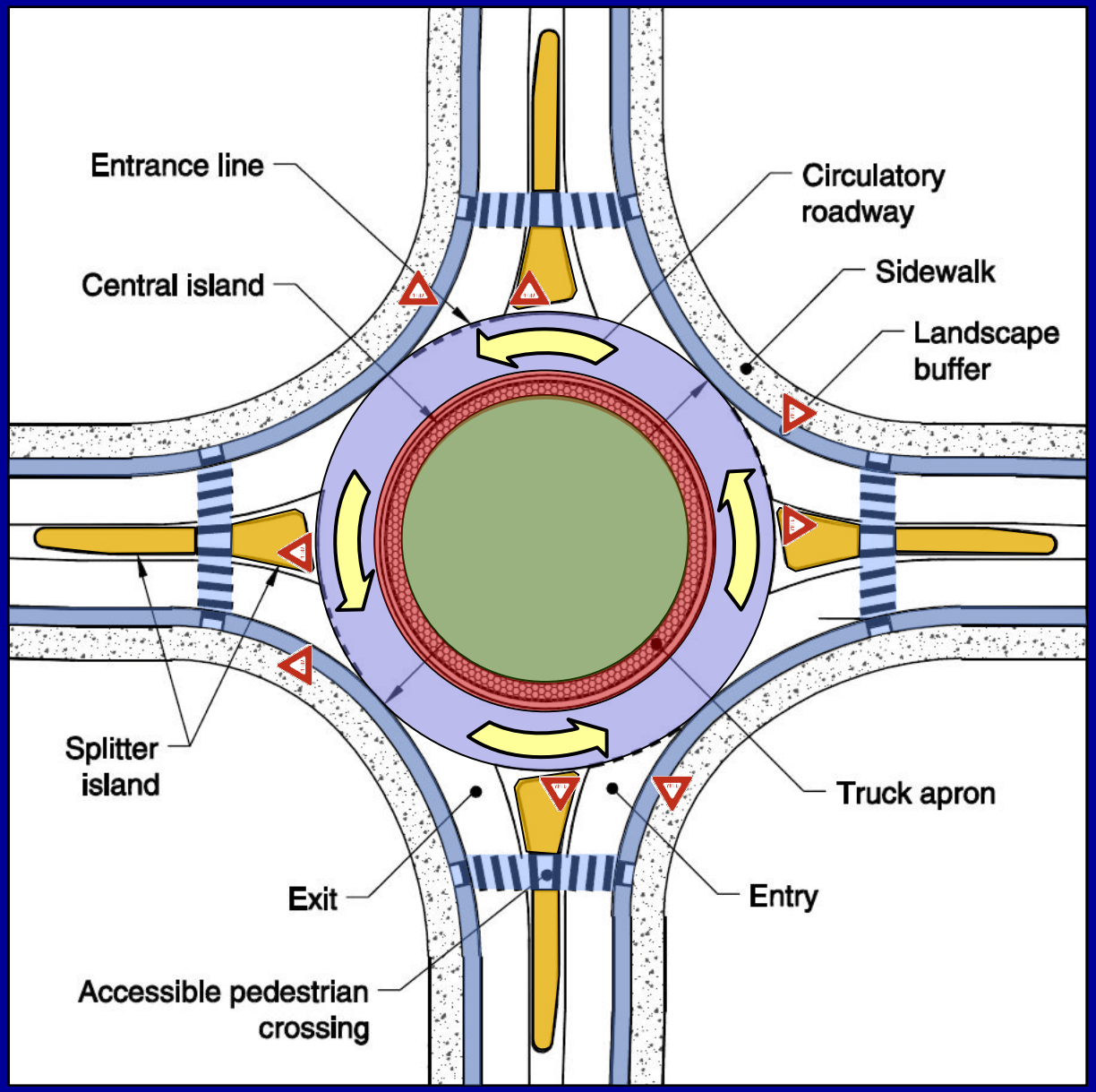
CARMEL, IND., IS DRIVING IN circles. Since 2001, the Indianapolis suburb has built 50 roundabouts, those circular alternatives to street intersections that have become a transit fixture in much of the rest of the world. Because roundabouts force cars to travel through a crossroads in a slower but more free-flowing manner—unlike traffic circles, roundabouts have no stop signals—in seven years, Carmel has seen a 78% drop in accidents involving injuries, not to mention a savings of some 24,000 gal. of gas per year per roundabout because of less car idling. "As our population densities become more like Europe's," says Mayor Jim Brainard, who received a climate-protection award this year from the U.S. Conference of Mayors, "roundabouts will become more popular."

About 1,000 roundabouts have been built in 25 states, and research bears out the benefits to states like Kansas, where the new design has produced a 65% average drop in vehicular delays, according to a recent Kansas State University study. Most roundabouts are also more aesthetically pleasing and cost much less to

the need for any stop signals ... Roundabouts cut hydrocarbon emissions at intersections by as much as **42%** ... Ten roundabouts in Virginia save **200,000** gal. of gas a year (no more idling!) ... In Kansas, roundabouts have eased traffic delays by an average of **65%**

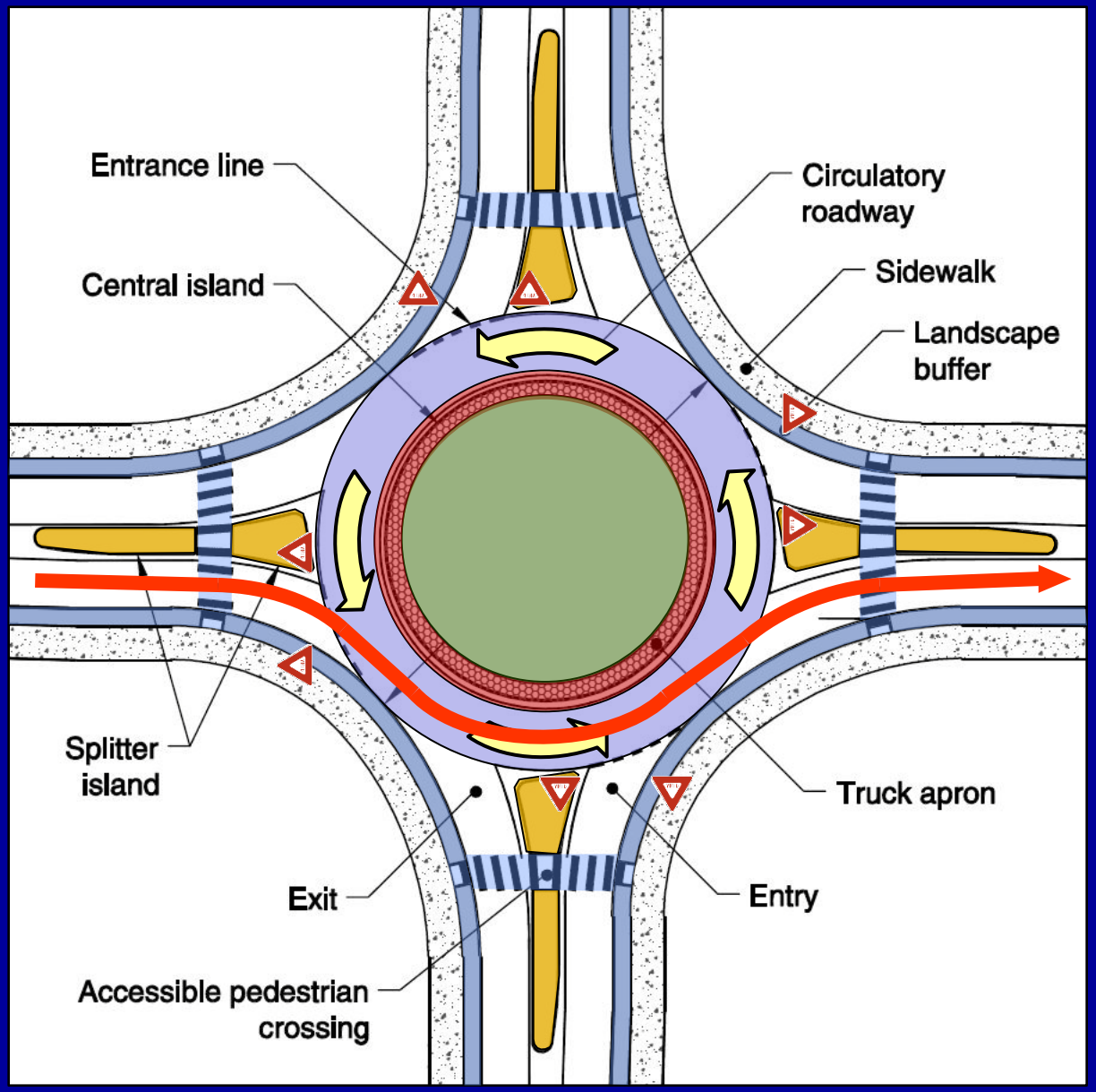
Elements of a Roundabout

- Central Island
- Truck Apron
- Circular Roadway
- Splitter Islands
- Sidewalks/Crosswalks
- All traffic moves right, counter-clockwise
- Yield on Entry

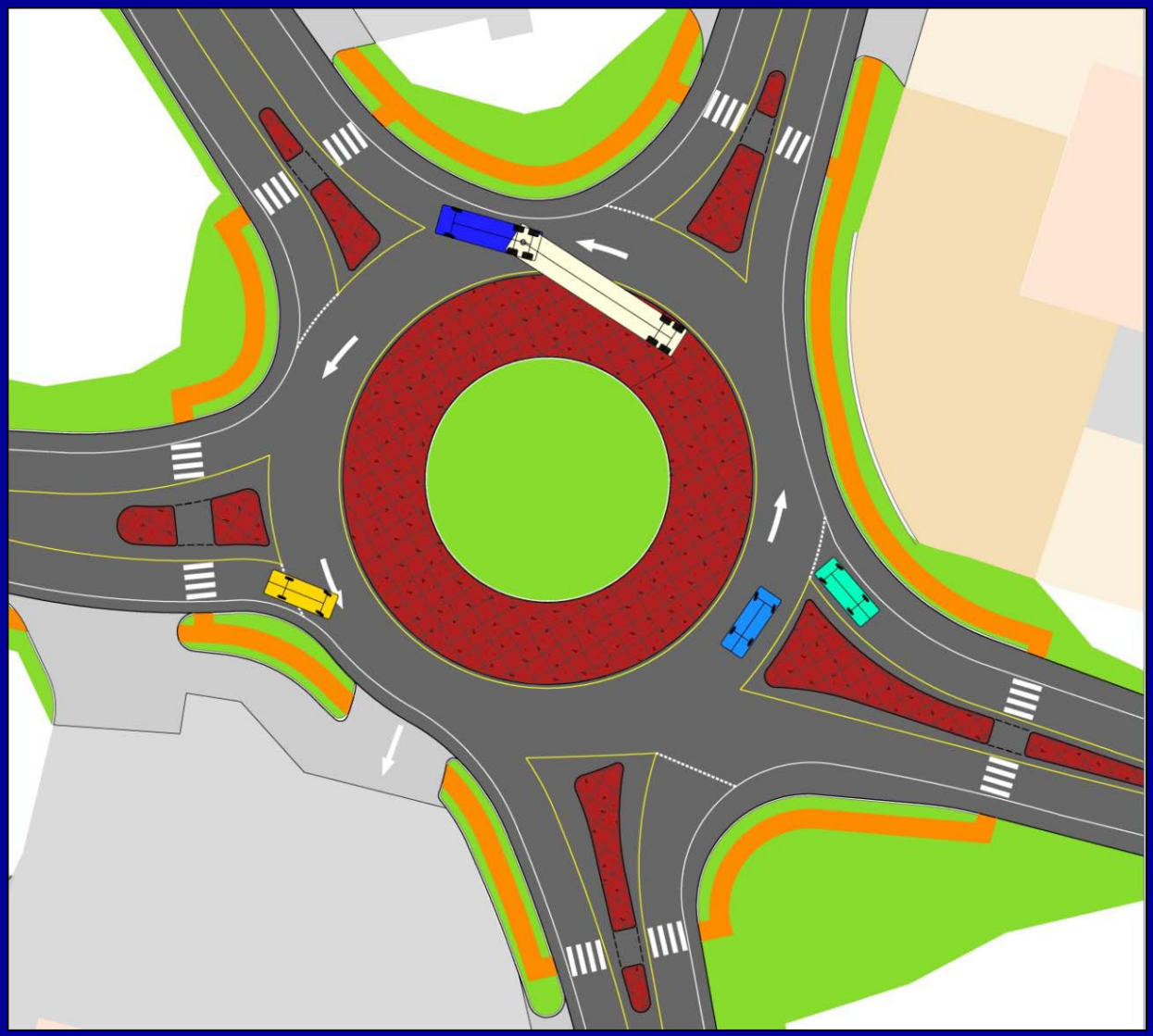


Elements of a Roundabout

- Vehicle Path
- Anticipated Speeds: 15 - 20 mph



Driving a Roundabout



Large trucks can use apron

Driving a Roundabout

Accident Reduction

Transportation Research Board

Compared 23 roundabouts to former signalized or stop-controlled intersection...

- Total crashes: **40% ↓**
- Injury crashes: **80% ↓**
- Fatal/incapacitating crashes: **89% ↓**

http://trb.metapress.com/content/j3186516t7334118/fulltext.pdf

CT Roundabouts: West Haven (Before)

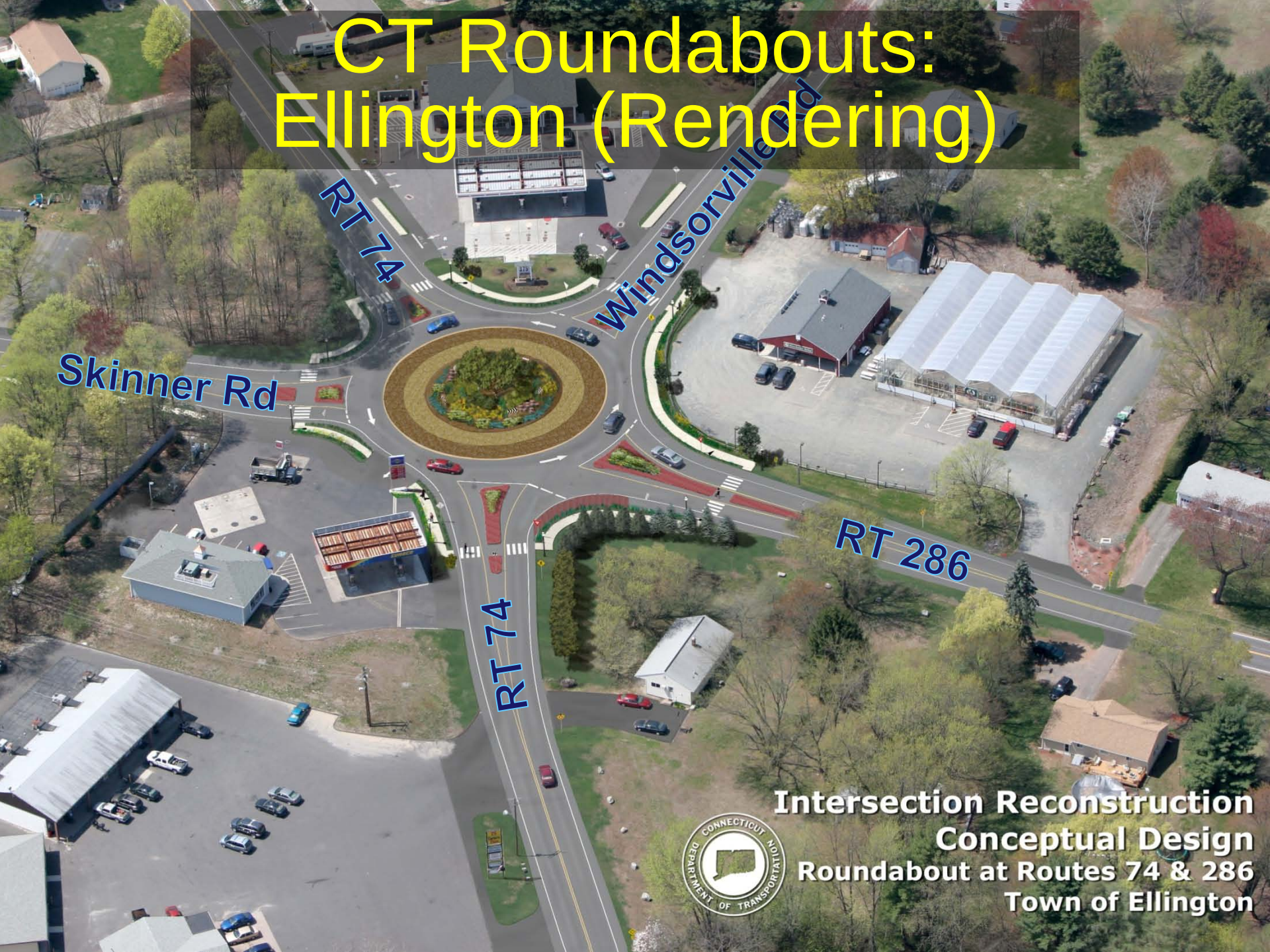
CT Roundabouts: West Haven (Rendering)

CT Roundabouts: West Haven (Built 2008)

CT Roundabouts: Ellington (Before)

CT Roundabouts: Ellington (Before)

CT Roundabouts: Ellington (Rendering)



CT Roundabouts: Ellington (Built 2011)

- Went into roundabout operation on July 4th weekend, 2011
- Delays virtually eliminated, even while in Construction

CT Roundabouts: Ellington (Built 2011)

CT Roundabouts: Ellington (Built 2011)

CT Roundabouts: Ellington (Built 2011)

Sent: Sunday, January 08, 2012 3:37 PM
To: Norman, James H
Cc: mblanchette@ellington-ct.gov
Subject: Great Job to ALL -Project # 47-116

Just to pass this on, to you and your department, along with the Town of Ellington and all those involved,

The new Round About at the 5-corners Is "the greatest thing since sliced bread" as they would say. I've been traveling through there daily since 1968 and traffic has never flowed more smoothly as it does now.

The time and studies put into the project was well worth it. It works so slick. I have never seen a back-up since the day they put the barrels up during construction.

I'm sure we will see more of these in the future around the state even for four corner intersections.

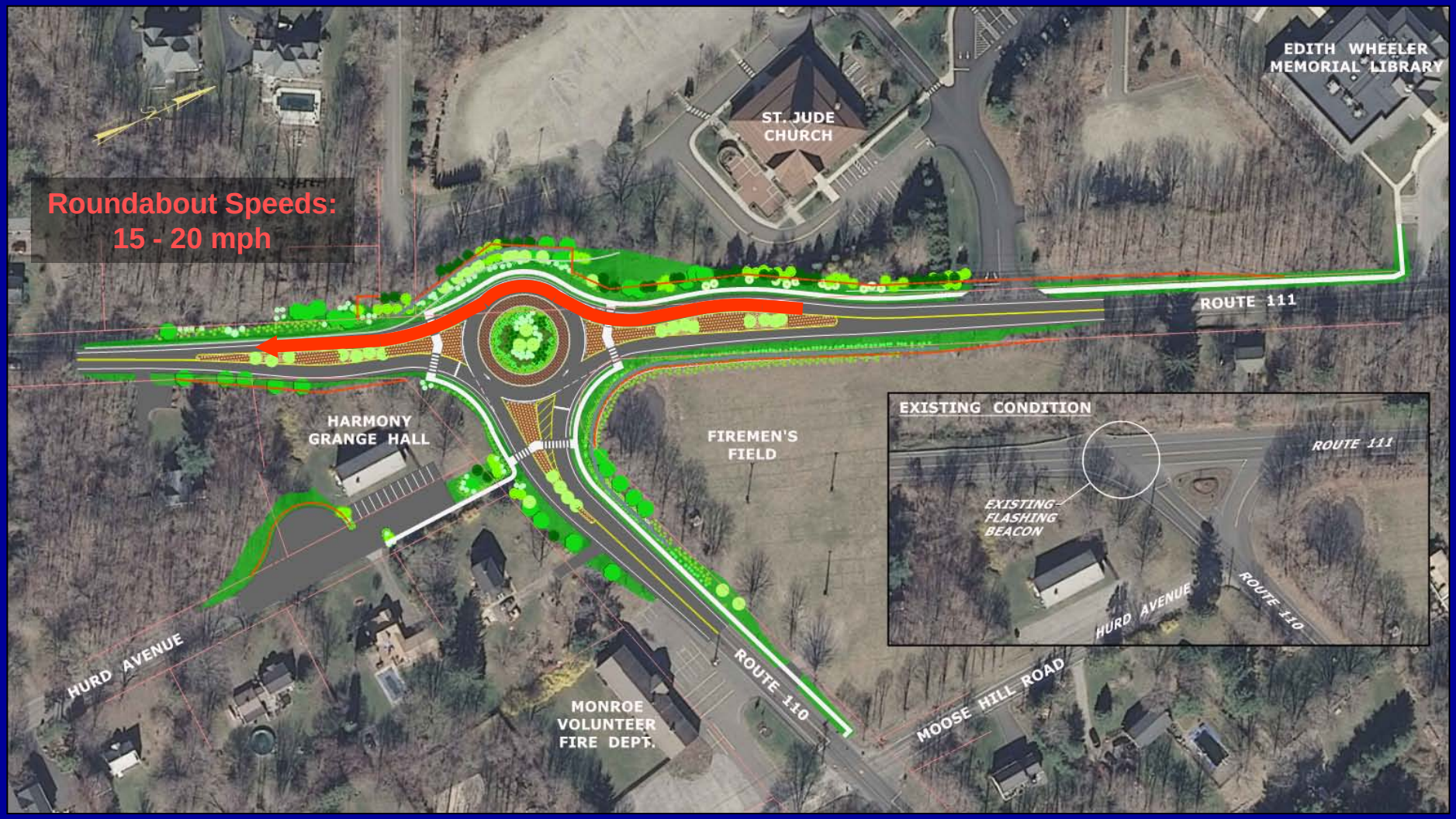
The new Round About at the 5-corners Is "the greatest thing since sliced bread" as they would say. I've been traveling through there daily since 1968 and traffic has never flowed more smoothly as it does now.

It works so slick. I have never seen a back-up since the day they put the barrels up during construction.

Project Site - Existing

Project Site – Concept (2012)

Project Site - Proposed



Aesthetic Features

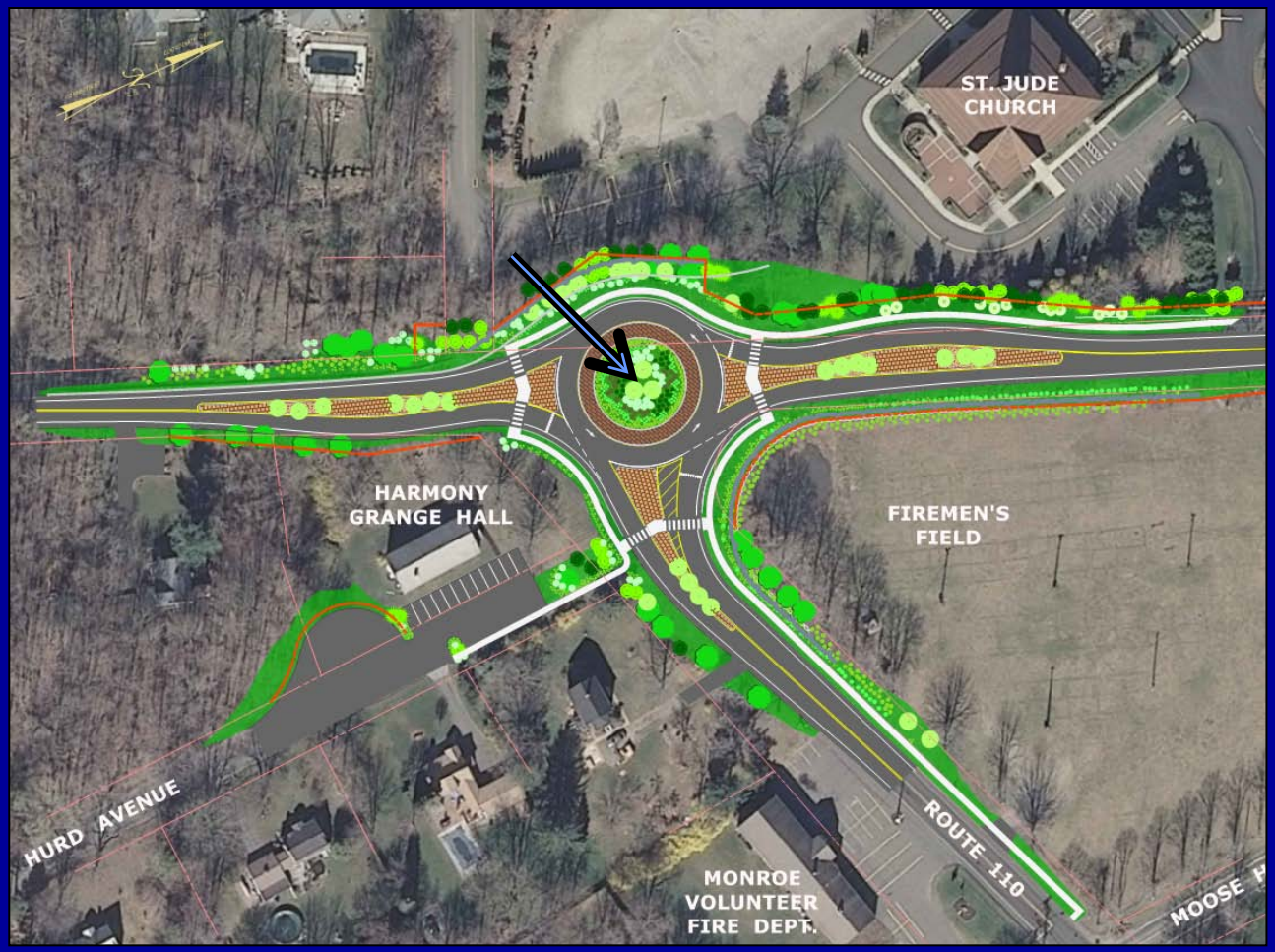
Important to blend proposed design with existing area

Aesthetic Features

Landscaping
- Central island
- Splitter islands
- Property Frontages

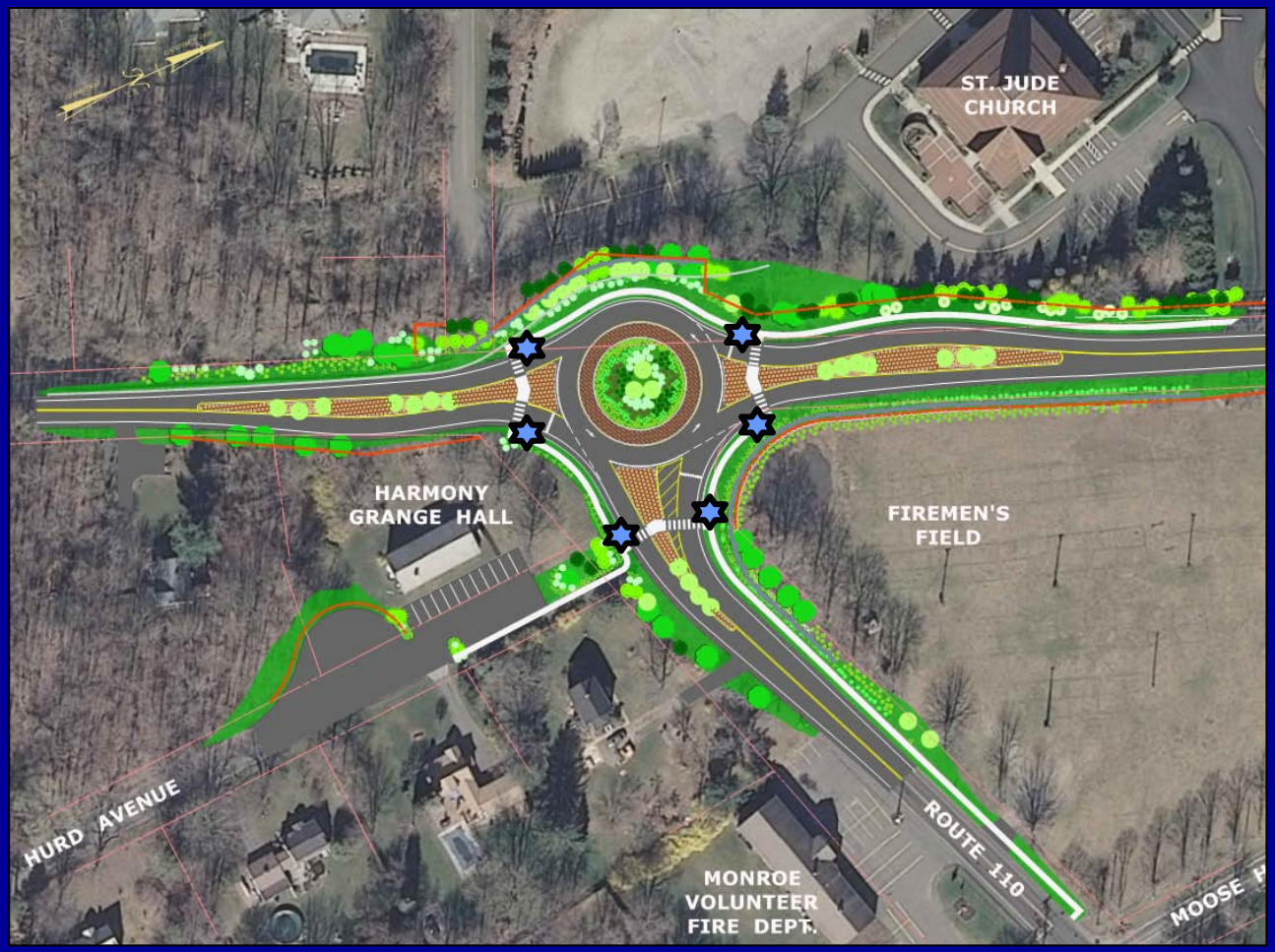
Aesthetic Features

Bell Tower



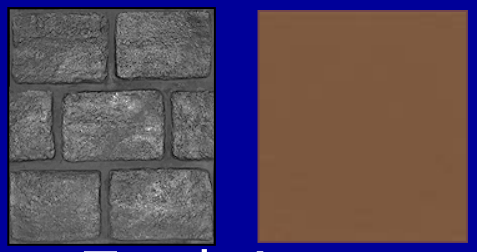
Aesthetic Features

Decorative Light Posts



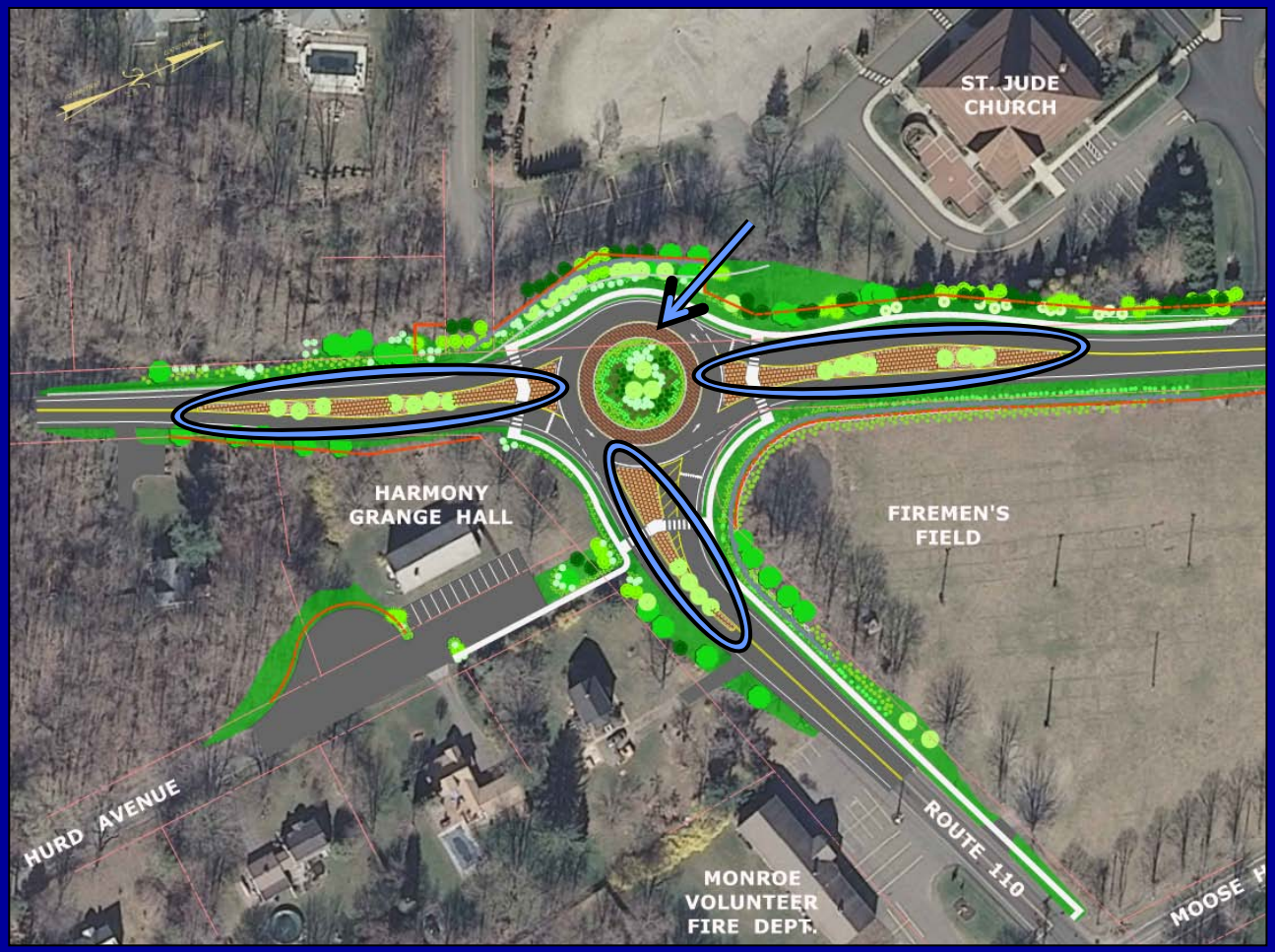
Aesthetic Features

Truck Apron & Splitter Islands



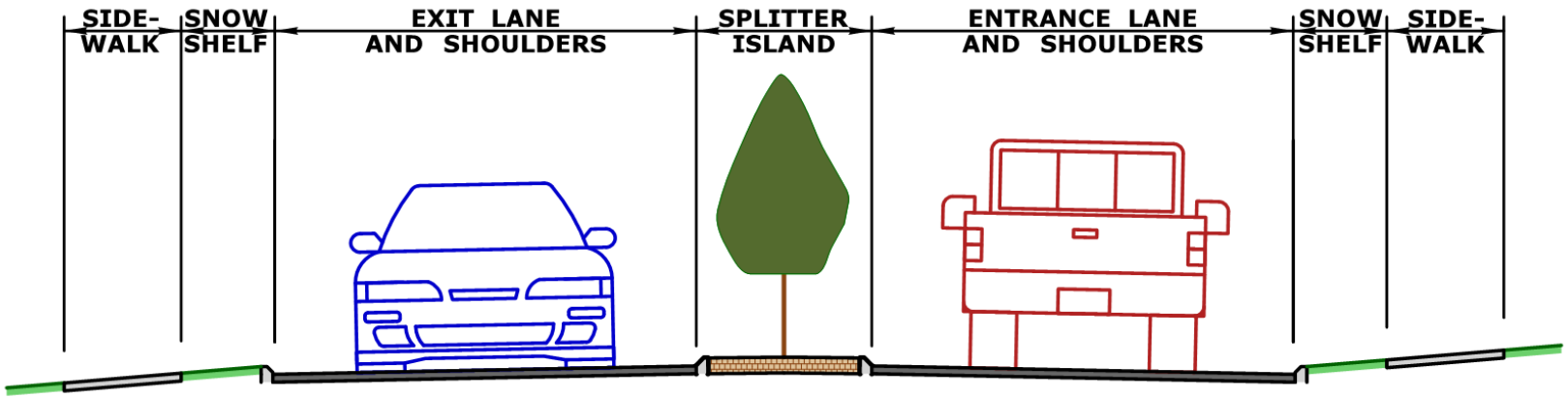
Truck Apron

Splitter Islands



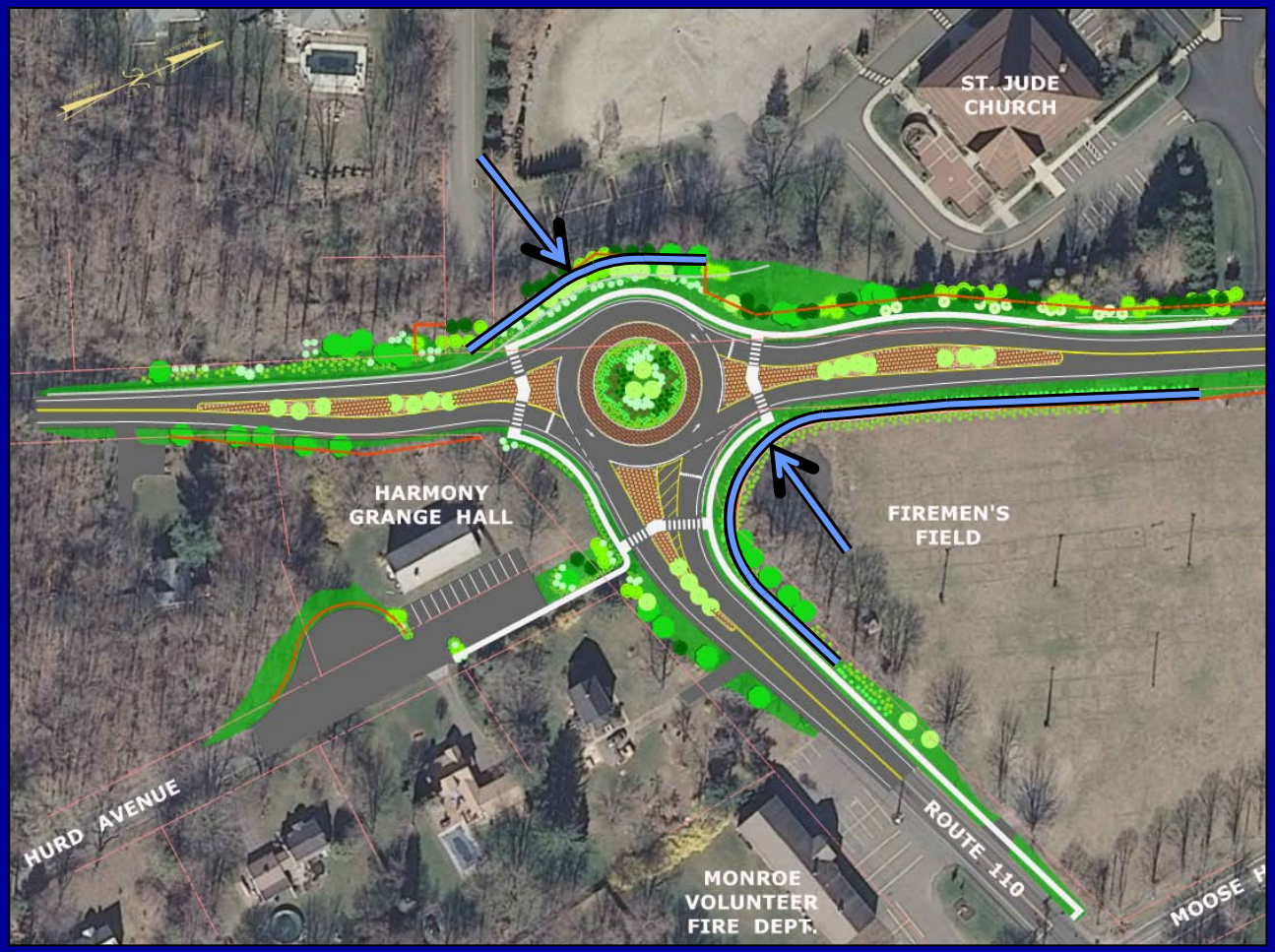
Aesthetic Features

Truck Apron & Splitter Islands



Aesthetic Features

Retaining Wall

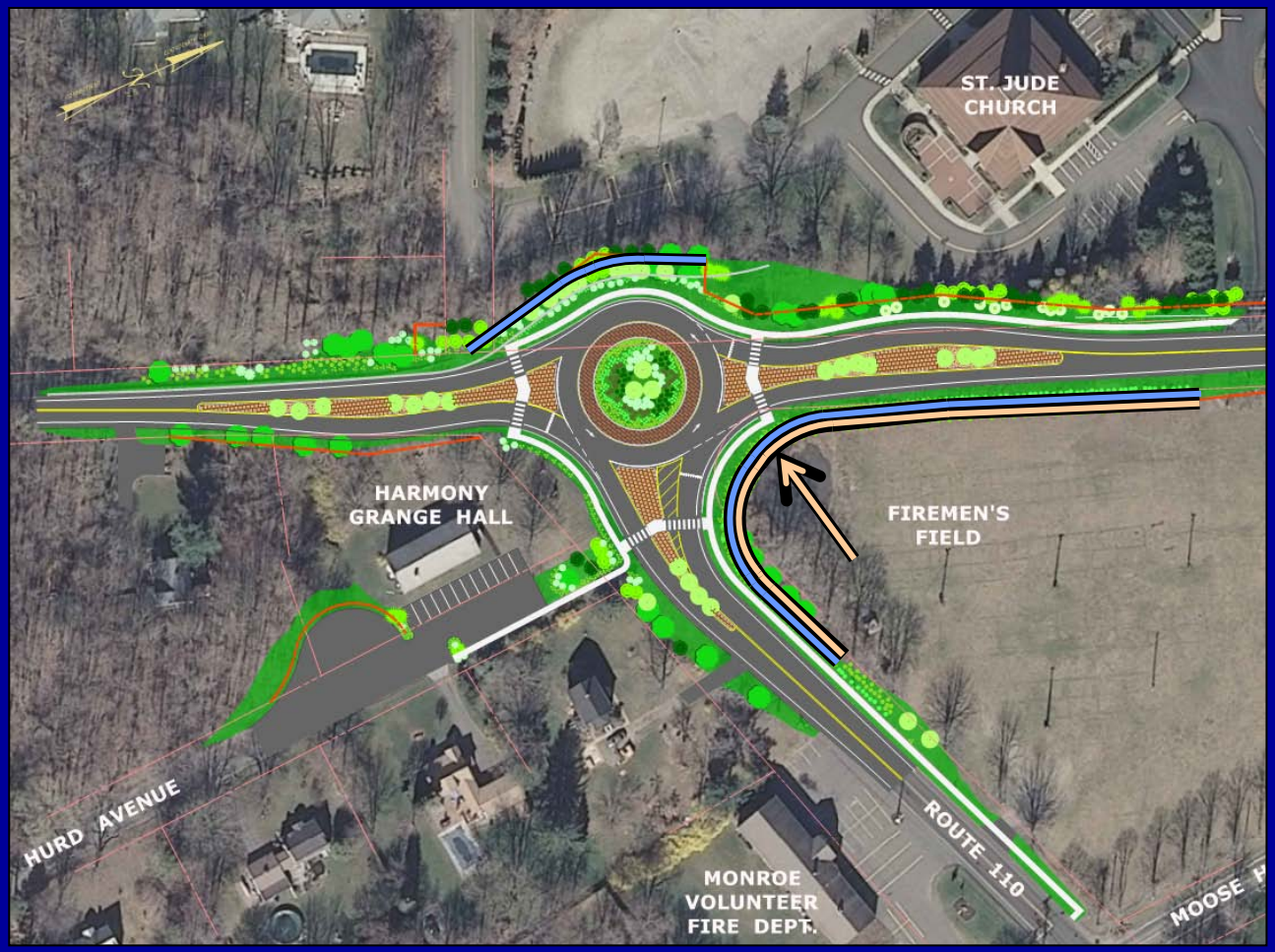


Aesthetic Features

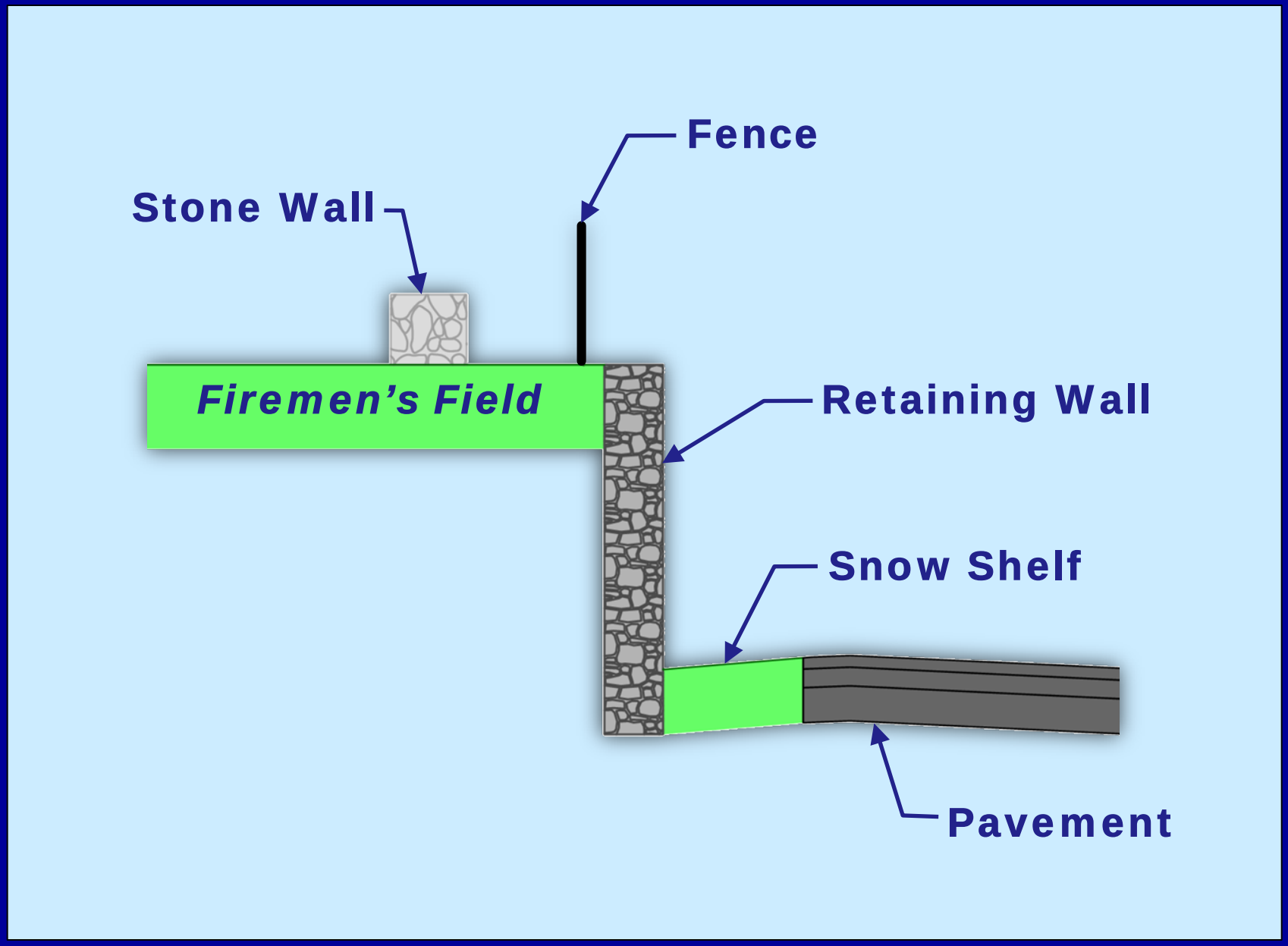
Decorative Fence

Aesthetic Features

Reset Stone Wall



Aesthetic Features

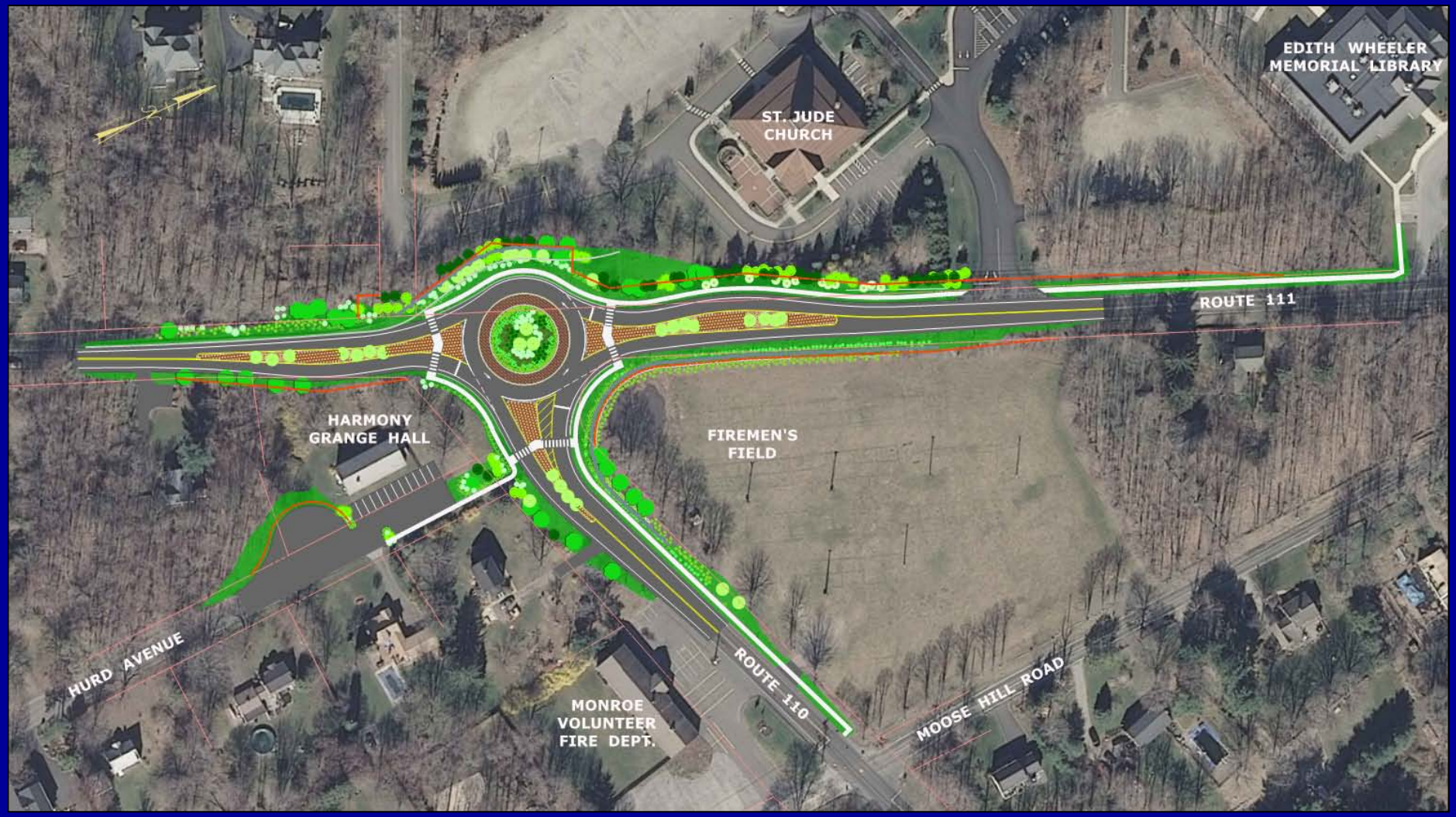


Roundabout Simulation: Route 111 NB

Roundabout Simulation: Route 110 to Route 111 SB

Roundabout Simulation: Year 2035 Peak Traffic

Rights-of-Way



Property Agent: Thomas Melzen

Rights-of-Way

Function

Acquire all Property/Property Rights necessary for the Project

Rights-of-Way

Property Impacts

- Partial Acquisitions
- Easements (i.e. slope, guiderail)
- Construction Easements (Temporary)

Subject to change as design progresses

Rights-of-Way

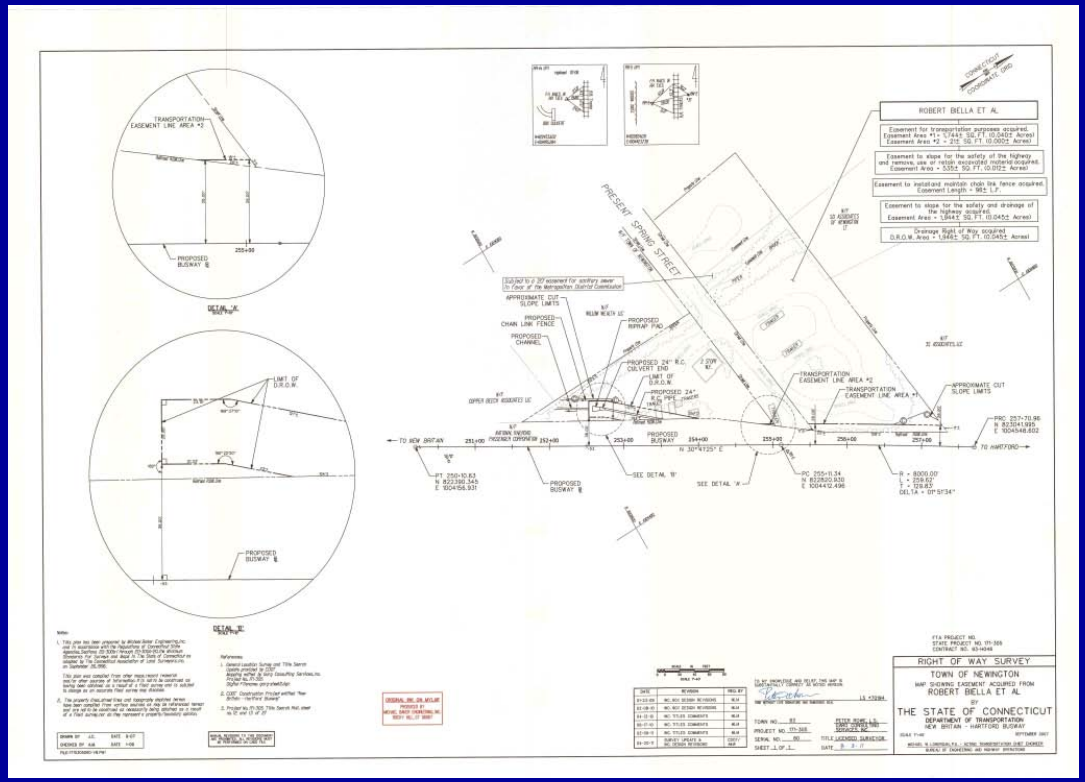
Statutory References

- State of Connecticut
  - C.G.S. Section 13a-73 & 13a-98c
- Federal
  - Uniform Relocation Assistance and Real Properties Acquisition Act of 1970 (as amended)

Rights-of-Way

ROW Process

- Letter of Intent to Acquire
- Valuation
- Offer of Compensation
- Negotiation
- Acquisition



Rights-of-Way

Timing for Acquisitions

- All Property Rights must be acquired by the Project Advertising Date
- Current Advertising Date: February 15, 2017

Project Cost & Schedule

Estimated Cost

Total for Construction: $4.1 million

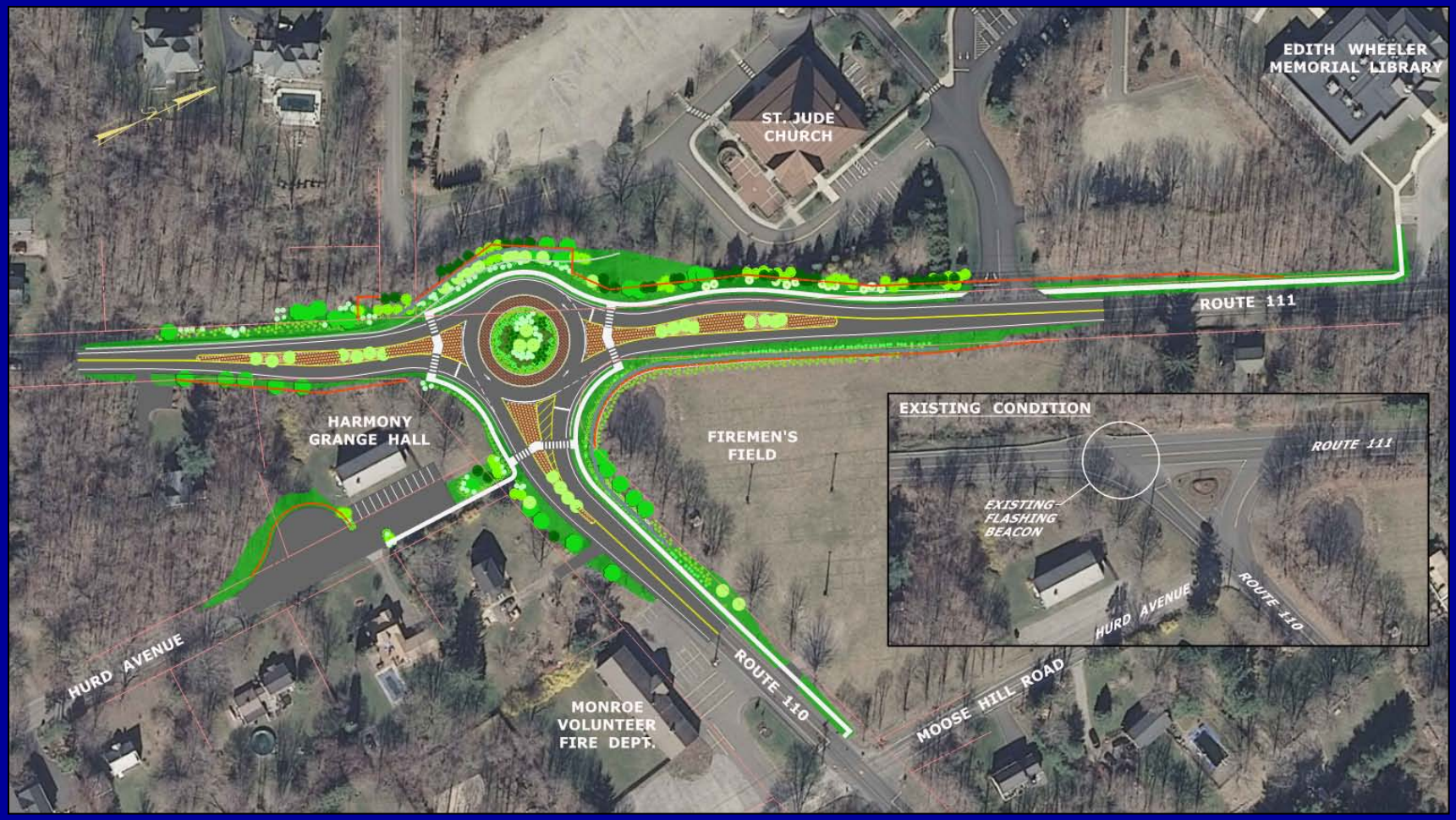
Federal / State Funds

Anticipated Schedule

Start of Construction - Spring 2017

End of Construction - Fall 2018

Questions?



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