

PENNINGTON COUNTY 2021 PROJECT OF THE YEAR

CSAH 8 BRIDGE AND RAB'S



PROJECT TIMELINE

2016

Count Board placed the CSAH 8 bridge in the 5 Year Plan



Spring of 2017

DigiKey announces a 2.2 million square foot expansion of its current facility. (over \$300 million)

Fall of 2017

Houston Engineering and WSB were chosen for the design of the project.



2018

Right of Way purchasing.

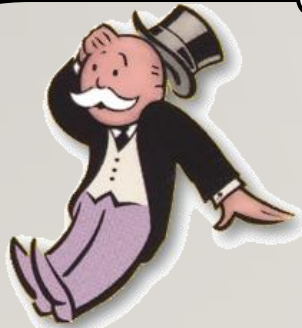
Spring of 2018

County Board moves project up to 2019



Winter of 2017

County received notice of TED and TEDI grants. \$1 million each.



Spring of 2019

Opened bids on TH 32 RAB and bridge.

Summer of 2019

Split projects and rebid.



PROJECT TIMELINE



Fall of 2019

R.J. Zavoral & Sons started work on the bypass road for the TH 32 RAB



Winter of 2019

Schroeder Construction started work on the bridge.



2020

The year is kind of a blur.



Summer of 2021

Finishing Touches

Fall of 2021

Completion!



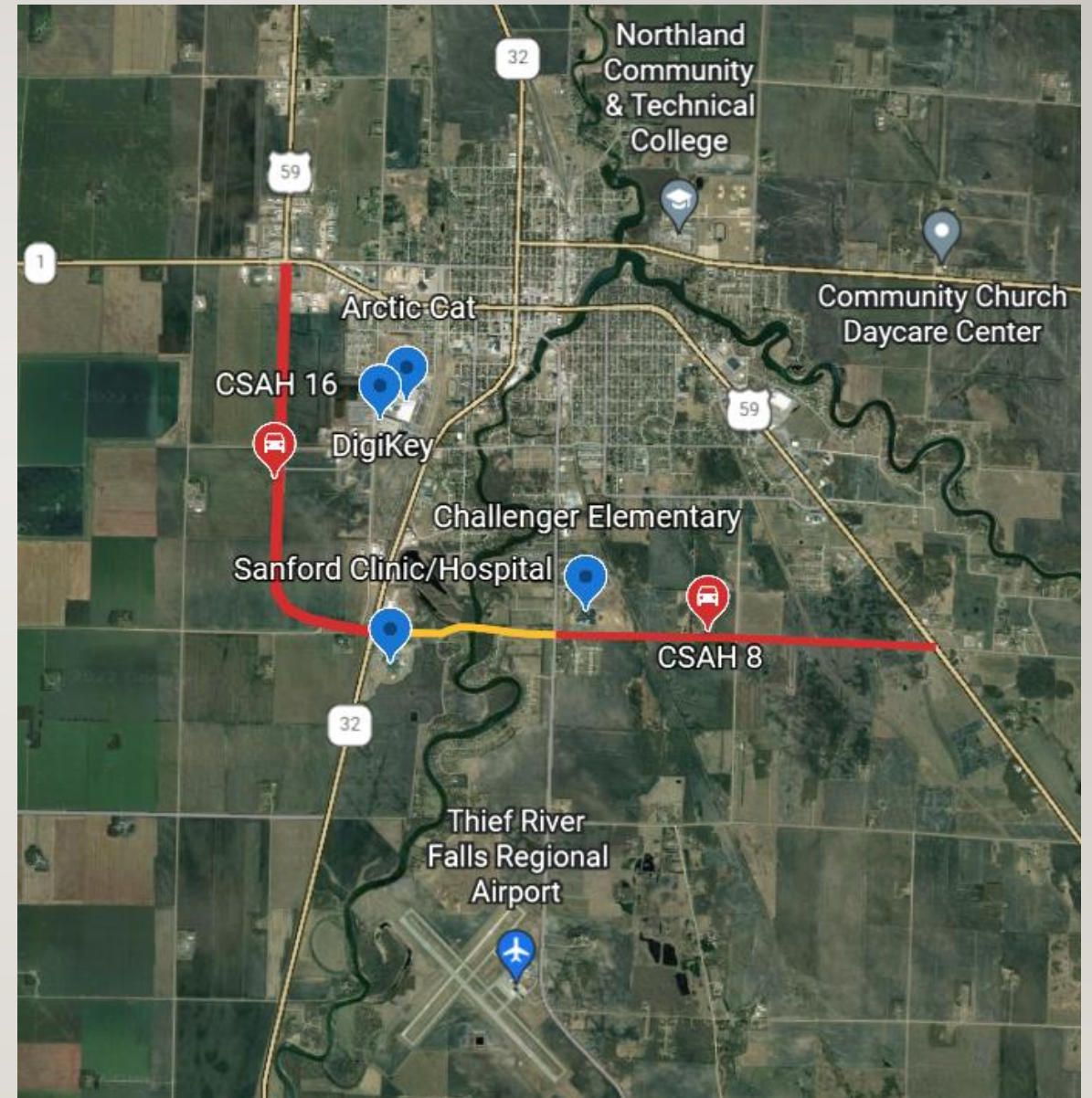
PRIOR TO CONSTRUCTION

How Did this all get Started?

This has been a project that's been in the making for over 3 decades.

In 1997 Delton Schultz built CSAH 16

- At that time Delton had the idea to build a bridge across at the same location but the City and County Leaders were not in complete support of the project.
- This was prior to DigiKey explosion onto the scene and City leaders were concerned about loosing customers.



Let's Get Started:

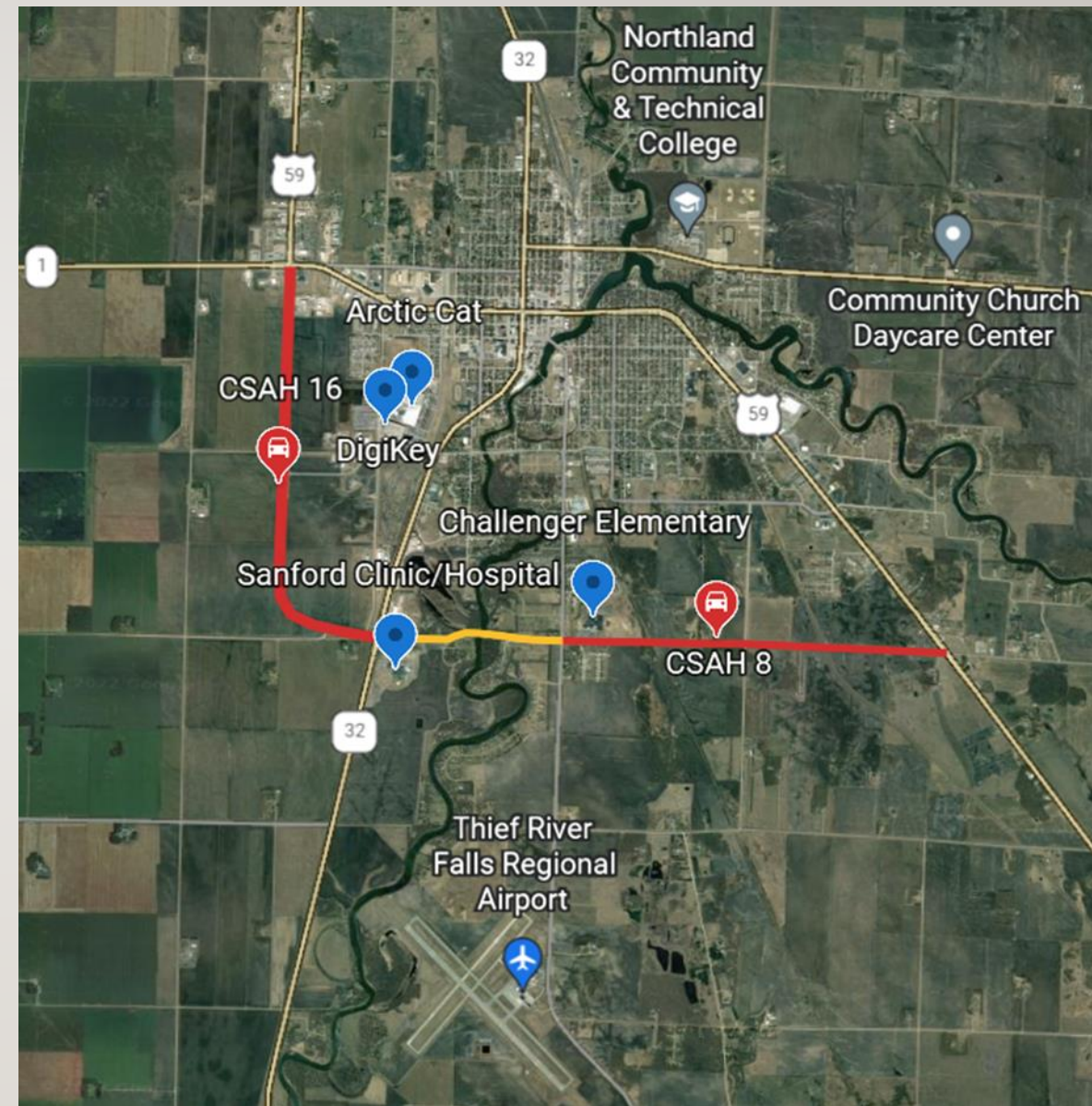
We started the process by holding public meeting to discuss the proper Corridor.

Basically 3 options came out of the public meetings:

1. CSAH 8
2. CSAH 7
3. Do Nothing

WSB conducted the study which ultimately reinforced the original thought of constructing the new crossing on CSAH 8.

Size of the RAB was a noted concern.



COMMUNITY SUPPORT

- SANFORD
- DIGIKEY
- ARCTIC CAT
- CITY OF TRF
- PENNINGTON COUNTY COMMISSIONERS
- MnDOT
- ACCEPTED BY THE PENNINGTON COUNTY RESIDENTS

Busy Construction Season for Thief River Falls

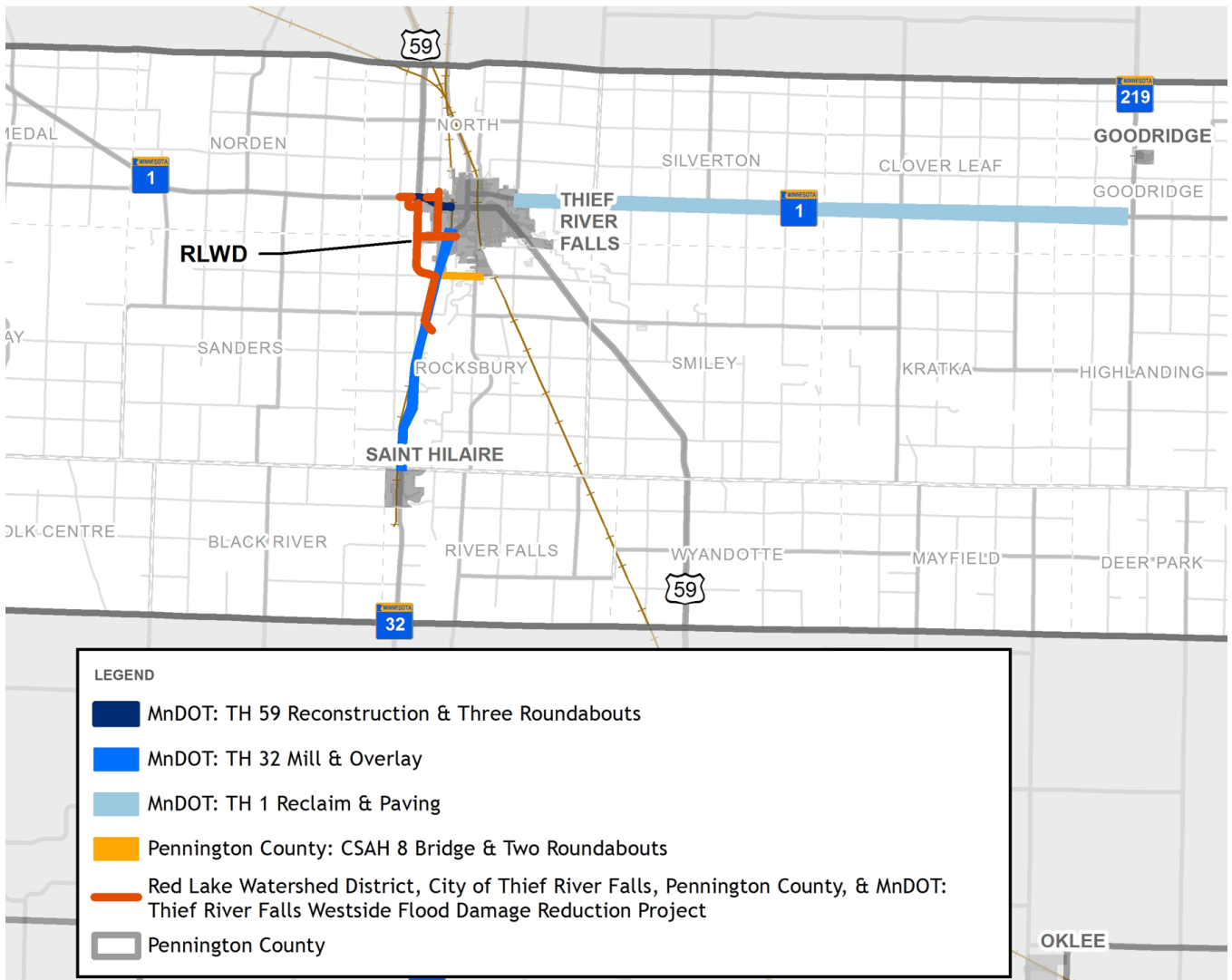
You could say it was like a “Perfect Storm” for construction in TRF

1. Westside Drainage Project
 - Red Lake Watershed District
2. TH 59 RAB's
3. TH 32 Mill and Overlay
4. TH I Reclaim and Paving
5. CSAH 8 RAB's and Bridge

Combined cost for all the projects was over \$30 million.



2020 PROJECTS NEAR THIEF RIVER FALLS





DESIGN CHARACTERISTICS

Alignment

R/W Impacts

Homes
Relocations

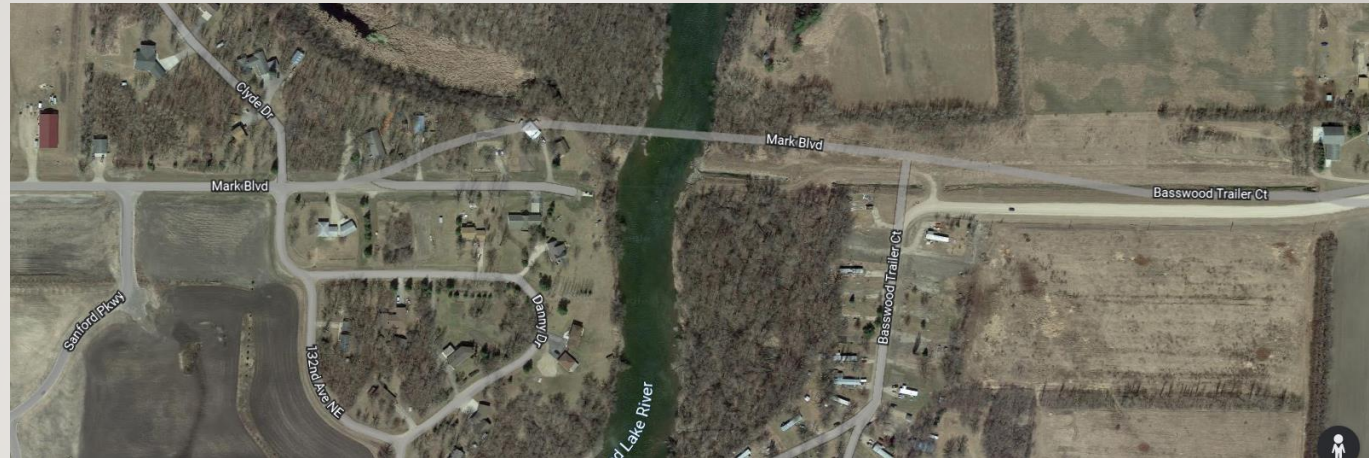
Wetlands

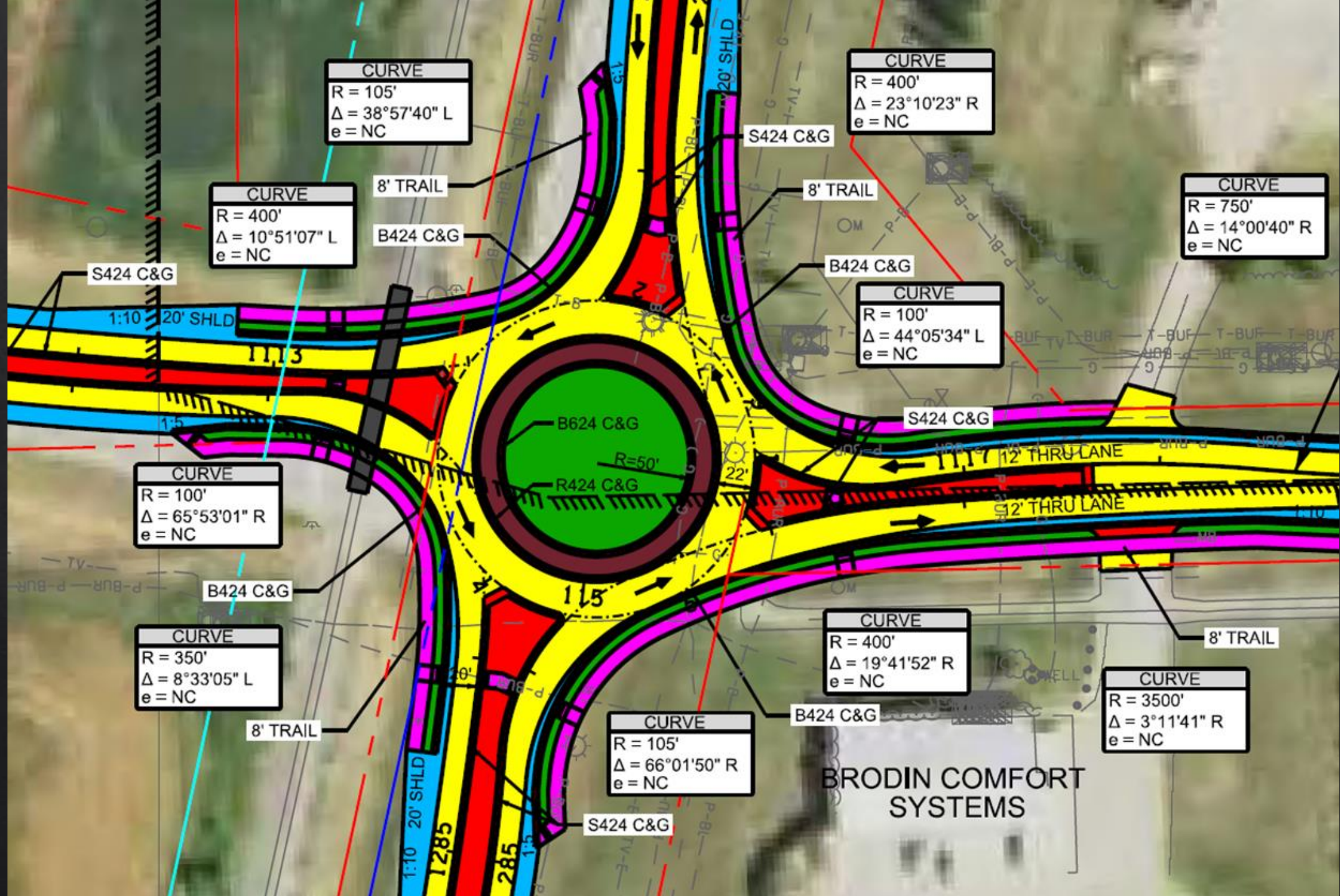
Tree Removal

- We worked with our STS program to remove the trees during the winter months (protecting the bats)
- A benefit for all

Large Traffic going through the RAB's

- Large Tankers (Canadian oil fields)
- Wind Turbines
- Mobile Homes





RIGHT OF WAY

- 8 parcels
- 3 home buy outs
- 3 relocations
 - one being a rentor (pay 42 months of rent differential)

Get to know the [Guide Book for Property Owners](#) and [Relocation Assistant – Your Rights and Benefits](#)
Decent, Safe, and Sanitary

Appraisals were performed by Tinjum Appraisal Co. in Detroit Lakes

Hired WSB to negotiate relocations

- I thought it be best to have an experienced, third party determine relocation offers that were experienced



Right of Way Impacts:

- 3 homes were purchased
 - Two homes were already planned to be sold
 - Relocated one couple and another renter
- 3rd home had to relocate a couple to a new location
- Sold 5 building to be moved to other locations
- Hazardous material abatement





BIDDING

Originally Bid the Bridge and TH 32 roundabout together thinking we'd get a better price

- WRONG!
- Bid was \$1.8 million (30%) over estimate
- Only 1 Bidder (Good Story)
- Decided to reject bids and bid the projects in separate contracts
- We saved \$450K by rebidding
- 5 bidders on the RAB

Final Bids:

TH 32 RAB	\$2,550,000
Bridge	\$4,680,000
Challenger RAB	\$2,750,000

AN INTERESTING CHAIN OF EVENTS

1. We rejected the 1st bid from Davidson Construction
2. One certified ready-mix plant in the area (Davidson Ready-mix)
3. Wells Concrete became certified before the 2nd bidding
4. Zavoral's and Schroeder were awarded the 2 bids on the 2nd opening
5. Wells concrete is bought out by Kost Materials (Fargo)
6. Kost Materials is bought out by ????? (any guess?)
7. Schroeder decides to use Strata Concrete in Crookston



FUNDING

I sent in several applications for grants and was lucky to receive 3 grants totaling \$3 million.

LRIP	\$1,000,000
TEDI	\$1,000,000
TED	\$1,000,000
MnDOT (cooperative agreement)	\$1,700,000
Pennington State Aid	\$5,280,000

Pennington County receives about \$2,300,000 in State Aid Construction funds per year.

Proves the “Economic Benefit” of the project, not only local, or regional, but state wide.





**Construction Starts in the Fall of 2019
with the construction of the bypass on
TH 32.**

CONSTRUCTION ISSUES:

1. Century Link ☹️
2. Wet Fall in 2019
 1. Caused about a 2-month delay in bridge construction
3. COVID
 1. Really was a non-issue
4. Drought in 2021
 1. Hampered turf establishment
5. Visit from MPCA

Colored Concrete

Added \$4.25 per CY (\$17 per bag)

Early summer of 2020









H&S Construction from Thief River Falls

- Good workmanship

Havland Construction does the Challenger RAB

- Workmanship is Questionable











**Something to think about:
Consider Paving circle with Concrete
How to do a mill and overlay in the future?**

**Colored Concrete
Added \$16 per cubic yard**



Bridge Site prior to Construction



Schroeder Construction
starts installing sheet piling



1st Pour















Architectural Finishing































We got a visit from MPCA









There's always that guy.



One of our better drivers in Thief River Falls



THANK YOU!

- Pennington County Staff
 - Alex Bladow (Assistant County Engr.)
 - Jay Mathieu
 - Joe Gary
 - Lori Marquis
- Supporting Staff
 - Tyler Olson (Marshall County)
 - Doug Hess (Marshall County)



STATE AID SUPPORT

- Lou Tasa
 - Agreements
 - R/W
 - Funding (Grants)
 - Design
 - Everything Under the Sun



CONSULTING

- Houston Engineering and WSB
 - Houston was the Primary Consultant
 - Both performed Preliminary Engineering and Planning
 - R/W purchasing and relocations (WSB)
 - Survey
 - Design
 - Bid Process
 - Construction Support

BIG THANK YOU TO THESE MAJOR PLAYERS!

HOUSTON ENGINEERING

- Jeff Langan
- Wes Keller
- Brad Johnson
- Derek Kaiser
- Travis Nelson
- Adam Ruud

WSB

- Jack Corkle (planning)
- Andrew Plowman
(design)
- Brent Rolf (relocation)
- Penny Rolf (R/W)

CONTRACTORS

- Zavoral and Son's
- Schroeder
- Thygeson
- H&S
- Hovland (not impressed)
- Several other subs

MEETING THE CHALLENGE

1. It's been the most complex and highest cost project for Pennington County
2. Working with MnDOT on a Cooperative Agreement Project
 - CHALLENGING
 - R/W
 - Design
 - Survey
 - Bidding
 - Contract Management
3. Coordination of Projects
4. Project Staffing
5. It was a great experience for me going through every aspect of this project.