

ACTION TRANSMITTAL No. 2018-23

DATE: March 7, 2018

TO: Transportation Advisory Board

FROM: Technical Advisory Committee

PREPARED BY: Joe Barbeau, Senior Planner (651-602-1705)

SUBJECT: Scope Change Request for Scott County's CSAH 21 / TH 13 Intersection Project

REQUESTED ACTION: Scott County requests a scope change to its CSAH 21 / TH 13 Intersection Project (SP # 070-621-032) to adjust the project limits, change two signals to roundabouts, and adjust intersection access.

RECOMMENDED MOTION: That the Transportation Advisory Board approve a scope change request for Scott County's CSAH 21 / TH 13 Intersection Project (SP # 070-621-032) to adjust the project limits, change two signals to roundabouts, and adjust intersection access.

BACKGROUND AND PURPOSE OF ACTION: Scott County was awarded \$4,929,040 in Surface Transportation Block Grant funds for the 2020 fiscal year in the Roadway Reconstruction/Modernization category of the 2016 Regional Solicitation. The award was to make the following changes at and near the intersection of CSAH 21 and TH 13 in Prior Lake:

1. Reconstruct the CSAH 21/TH 13 intersection
2. Reconstruct the CSAH 21 intersection with Main Avenue to right-in/right-out
3. Replace and add traffic signals at the CSAH 21 intersections with TH 13 and Arcadia Avenue
4. Adjust TH 13 intersection with Pleasant Street to 3/4 access
5. Construct turn lanes, trail/sidewalks, pedestrian amenities, and transit amenities

Following public review, the County would like to make the following changes to the project's scope:

- Change the western limits from Arcadia Avenue to West Avenue to include pavement rehabilitation work and construction of a 3/4 access intersection at Duluth Avenue.
- Change the southern limits on TH 13 from Pleasant Avenue to Franklin Trail.
- Change the signal at CSAH 21 and Arcadia from a signal to a roundabout.
- Change the signal at CSAH 21 and TH 13 from a signal to a roundabout.
- Change the right-in/right-out at Main to a 3/4 intersection for northbound traffic on Main.

RELATIONSHIP TO REGIONAL POLICY: Projects that receive funding through the Regional Solicitation process are subject to the regional scope change policy. The purpose of this policy is to ensure that the project is designed and constructed according to the plans and intent described in the original application. Additionally, federal rules require that any federally-funded project scope change must go through a formal review and TIP amendment process if the project description or total project cost changes substantially. The scope change policy and process allow project sponsors to adjust their projects as needed while still providing substantially the same benefits described in their original project applications. A TIP amendment does not accompany this request because this is a 2020 project.

STAFF ANALYSIS:

Scoring: This project scored 568 points out of 1,100 and had a 56-point scoring gap over the highest un-funded project in the Roadway Reconstruction/Modernization category (Minneapolis's 37th Avenue Reconstruction, which scored 512). No scorers reported a significant score reduction and the project would score at least 542 points.

Funding: Given the minor changes to the periphery of the project area, no alternate amounts are shown.

COMMITTEE COMMENTS AND ACTION: At its February 22, 2018, meeting, the Funding & Programming Committee voted unanimously to recommend approval of the scope change request.

At its March 7, 2018, meeting, the Technical Advisory Committee voted unanimously to recommend approval of the scope change request.

ROUTING

TO	ACTION REQUESTED	COMPLETION DATE
TAC Funding & Programming Committee	Review & Recommend	2/22/2018
Technical Advisory Committee	Review & Recommend	3/7/2018
Transportation Advisory Board	Review & Approve	



SCOTT COUNTY TRANSPORTATION SERVICES DIVISION

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LISA J. FREESE
Transportation Services Director

ANTHONY J. WINIECKI, P.E.
County Engineer

TROY BEAM
Mobility Services/Fleet Mgr.

January 16, 2018

Mr. Paul Oehme
Chair, TAC Funding and Programming Committee
Metropolitan Council
390 Robert Street North
St. Paul, MN 55101

RE Scope Change Request
SP 070-621-032
CSAH 21 and TH 13

Dear Mr. Oehme

Scott County respectfully requests that the Metropolitan Council TAC Funding and Programming Committee consider the attached Scope Change request for the above referenced project.

Due to an extensive public involvement process and pavement projects planned for both CSAH 21 and TH 13, there is a need to submit a scope change request. The public involvement process brought all of the stakeholders together including the Prior Lake Downtown businesses to develop a plan that was supported by the City Council, residents, and downtown businesses. The pavement projects on TH 13 and CSAH 21 offer a coordination and cost savings opportunity to be realized.

Please consider the requested scope change at your next available TAC Funding and Programming Committee meeting.

Sincerely,

Anthony J. Winiecki
Scott County Engineer

Scope Change Request CSAH 21 and TH 13 – FY 2020

Location Map

A location map of the project is attached as Exhibit A.

Project Layout

A layout showing the original application is attached as Exhibit B.

A layout showing the revised project elements is attached as Exhibit C.

Current TIP Description

RECONSTRUCT CSAH 21/TH 13 INTERSECTION IN PRIOR LAKE INCLUDING ON CSAH 21 FROM ARCADIA AVE INTERSECTION TO FRANKLIN TRAIL E OF MN 13 - RECONSTRUCT INTERSECTION WITH MAIN AVE TO RIGHT-IN/RIGHTOUT, REPLACE/ADD TRAFFIC SIGNALS AT TH 13 & ARCADIA AVE INTERSECTION, $\frac{3}{4}$ INTERSECTION AT TH 13 & PLEASANT ST, TURN LANES, TRAIL/SIDEWALKS, PED AND TRANSIT AMENITIES

Background

Scott County was awarded funding for the intersection of CSAH 21 and TH 13 in the 2016 Regional Solicitation under the Modernization category. CSAH 21 is a Minor Arterial roadway from the eastern Scott County line to TH 169. The project involves improving the intersection of CSAH 21 and TH 13 and intersections on CSAH 21 west of TH 13 to Arcadia Avenue. Today TH 13 is a two lane roadway and CSAH 21 is a four lane undivided roadway. The intersection is split phase due to the lack of turn lanes on CSAH 21 and historic crashes at this intersection.

Public Involvement Driven Changes

Upon receiving funding the County started developing a design schedule that was very heavy on the public involvement process. The objective was to be context sensitive to the downtown Prior Lake businesses and community while also evaluating the regional traffic issues and needs. Over the course of the public involvement process, a total of five different concepts, including the original federal application concept were evaluated for operations and benefits and challenges. With the roundabout options there was no longer a need to relocate Pleasant further south through a wetland/poor soils for vehicle storage because of the increase in efficiency of the roundabout at TH 13 and CSAH 21.

During the public involvement process there were safety concerns with the intersection of CSAH 21 and Duluth Avenue approximately 420 feet west of Arcadia. With the roundabout now planned at Arcadia instead of a signal, the intersection of Duluth Avenue to the west can be converted from a full access to a $\frac{3}{4}$ access.

The City of Prior Lake also hired an independent consulting firm to conduct an evaluation of the alternatives. In the end, the City of Prior Lake and the public supported the changes to roundabouts vs signaled intersections, the $\frac{3}{4}$ access at both Duluth and Main.

The layout has been to the MnDOT layout review committee for comments.

Rehabilitation Area

In late 2016, the County's design group started investigating the right maintenance fix to road flooding being experienced on CSAH 21 near West Avenue in recent years. In 2017 through analysis it was discovered the pavement had sunk three feet vertically and shifted over one foot horizontally over the last 25 years which is the cause of the recent road flooding. Due to efficiencies in project delivery of this maintenance rehabilitation project, and avoiding multiple closures, the County proposes to increase the western limits of CSAH 21 from Arcadia to West Avenue (approx. 1,500 feet) to be included into the project.

MnDOT Pavement Project

MnDOT has a programmed 14.4 mile reclamation project scheduled on TH 13 from CSAH 21 south planned for 2019. In attempting to coordinate with MnDOT on these projects, the County has agreed to add a section of the TH 13 reclamation work from the CSAH 21/TH 13 project limits to where MnDOT's project will end. This additional work would make logical termini for each project.

Scope Change Elements

The requested elements for the scope change is for the following:

- Change the western limits from Arcadia to West Avenue to include pavement rehabilitation work and intersection at Duluth.
- Change the southern limits on TH 13 from Pleasant Avenue to Franklin Trail.
- Change the Signal at CSAH 21 and Arcadia from a signal to a roundabout.
- Change the Signal at CSAH 21 and TH 13 from a signal to a roundabout.
- Change the right-in/right-out at Main to a $\frac{3}{4}$ intersection for northbound traffic on Main.

Proposed TIP Description Changes

RECONSTRUCT CSAH 21/TH 13 INTERSECTION IN PRIOR LAKE INCLUDING ON CSAH 21 FROM ~~ARCADIA~~ WEST AVE INTERSECTION TO FRANKLIN TRAIL E OF MN 13 - RECONSTRUCT INTERSECTION WITH MAIN AVE TO ~~RIGHT-IN/RIGHTOUT,~~ ^{3/4} INTERSECTION, ~~REPLACE/ADD TRAFFIC SIGNALS~~ ROUNDABOUTS AT TH 13 & ARCADIA AVE INTERSECTION, ^{3/4} INTERSECTION AT TH 13 & PLEASANT ST, TURN LANES, TRAIL/SIDEWALKS, PED AND TRANSIT AMENITIES

Summary

This project still completes the work within the original application. The County does not request additional Federal funds. The project does change the scope from signals to roundabouts and increases limits due to pavement needs.

Cost Estimate

CSAH 21/TH13: \$6,800,000
Paving CSAH 21: \$ 343,508
Paving on TH 13: \$ 80,000

Current TIP Funding:

TOTAL \$6,654,204
FHWA \$4,929,040
OTHER \$1,725,164

Proposed TIP Funding:

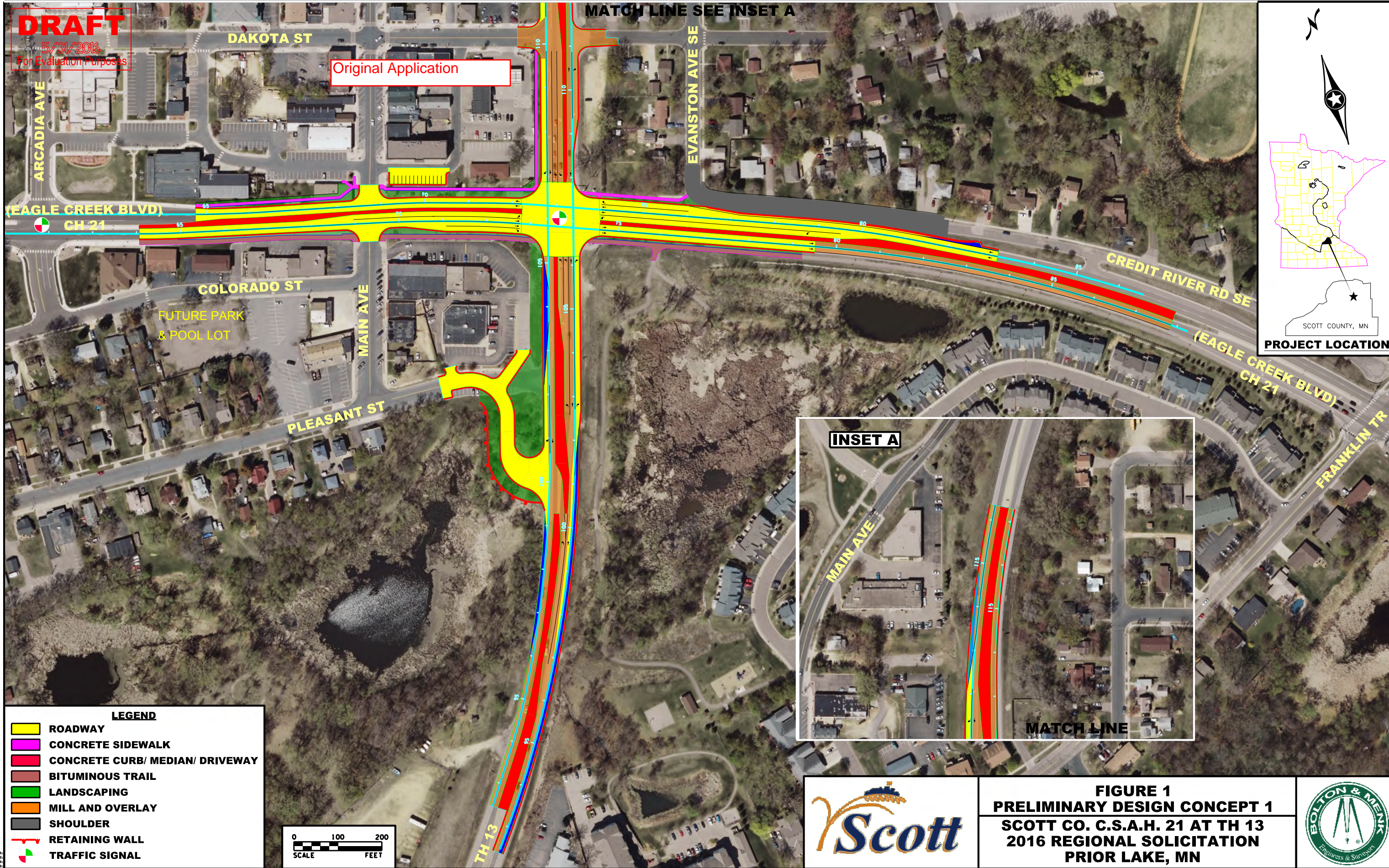
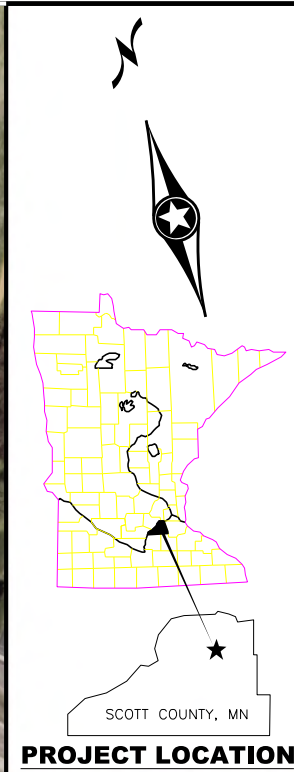
TOTAL: \$7,223,508
FHWA: \$4,929,040
OTHER: \$2,294,468

DRAFT

5/31/2016
For Evaluation Purposes

Original Application

MATCH LINE SEE INSET A



LEGEND

- ROADWAY
- CONCRETE SIDEWALK
- CONCRETE CURB/ MEDIAN/ DRIVEWAY
- BITUMINOUS TRAIL
- LANDSCAPING
- MILL AND OVERLAY
- SHOULDER
- RETAINING WALL
- TRAFFIC SIGNAL

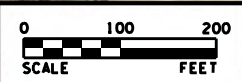


FIGURE 1
PRELIMINARY DESIGN CONCEPT 1
SCOTT CO. C.S.A.H. 21 AT TH 13
2016 REGIONAL SOLICITATION
PRIOR LAKE, MN



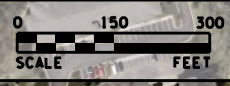
PROPOSAL

SCOTT COUNTY PAVEMENT SETTLEMENT PROJECT

MNDOT T.H. 13 RECONSTRUCTION PROJECT

ADDITIONAL RECONSTRUCTION WORK

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mi DEPARTMENT OF TRANSPORTATION Scott CITY OF PRIOR LAKE BOLTON & MENK

CH 21/TH 13 DESIGN CONCEPT
PRIOR LAKE, MN