

ACTION TRANSMITTAL

DATE: August 12, 2013

TO: TAC Funding and Programming Committee

PREPARED BY: Heidi Schallberg, Senior Planner (651-602-1721)

SUBJECT: Scope Change Request for TH 149 and TH 55 Projects

REQUESTED ACTION: The City of Eagan requests a scope change to modify the scopes of SP# 195-010-010 TH 149 Improvements and SP# 195-010-011 TH 55 Improvements. TH 149 would remove the improvements at the NE I-494 ramp at the intersection with TH 149 and shorten the trail length to Blue Gentian Road from the original end at the south end of I-494. TH 55 would retain access for one proposed closure.

RECOMMENDED MOTION: Recommend of the request to modify the scopes for SP# 195-010-010 TH 149 Improvements and SP# 195-010-011 TH 55 Improvements. TH 149 would remove the improvements at the NE I-494 ramp at the intersection with TH 149 and shorten the trail length to Blue Gentian Road from the original end at the south end of I-494. TH 55 would retain access for one proposed closure.

BACKGROUND AND PURPOSE OF ACTION: In the 2009 solicitation, the City of Eagan received \$2,529,600 in Surface Transportation Program funding for the TH 149 project. Through a previous scope change request in 2012, the federal funding amount was reduced to \$2,146,400. In the 2011 solicitation, the city received \$2,640,000 in Surface Transportation Program funding for the TH 55 project. Because the two projects are tied together and will be constructed under one contract, the scope changes are submitted together. The city's scope change request and supporting information are attached.

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 make adjustments to their projects as needed while still providing substantially the same benefits described in their original project applications.

STAFF ANALYSIS: Staff reviewed the scope change request submitted by the city. Staff accepts the estimated recalculations of the scores based on the information the city provided. The TH 149 project originally scored 777 points out of 1,250 and was ranked 4 out of 5 selected projects and 10 applications. The TH 55 project originally scored 992 points out of 1,200 and was ranked 1 out of 2 selected projects and 5 applications.

Based on the information provided by the city, staff recommends approval of the requested scope change.

ROUTING

TO	ACTION REQUESTED	DATE COMPLETED
TAC Funding & Programming Committee	Review & Recommend	
Technical Advisory Committee	Review & Recommend	
Transportation Advisory Board	Review & Adopt	
Metropolitan Council Transportation Committee	Concurrence	
Metropolitan Council	Concurrence	



City of Eagan

Mike Maguire
Mayor

Paul Bakken
Cyndee Fields
Gary Hansen
Meg Tilley
Council Members

Dave Osberg
City Administrator

August 5, 2013

Mr. Karl Keel, PE
TAC Funding & Programming Committee
1700 West 98th Street
Bloomington, Minnesota 55431-2501

SUBJECT: TH 149/TH 55 TO I-494 IMPROVEMENT PROJECT
TH 55/TH 149 SOUTH TO TH 149 NORTH IMPROVEMENT PROJECT
SCOPE CHANGE REQUEST #2
City of Eagan, Minnesota

INTRODUCTION

In March 2012, the City of Eagan submitted Scope Change Request #1 for the TH 149 Improvement Project because it was determined, through extensive coordination with MnDOT, that a five-lane section (three northbound and two southbound through lanes) from TH 55 to I-494 was the preferred design concept for this project. In addition, through our coordination efforts, it was agreed that this project would include a safety and capacity improvement project at the I-494 north ramp at its intersection with TH 149, which was originally a separate MnDOT project. On June 21, 2012 Scope Change Request #1 incorporating these changes was approved by FHWA (see Attachment B: Approved Scope Change Request) resulting in a change in the STIP from a total project cost of \$3,162,000 to total project cost of \$2,683,000 for this project. A summary of the TH 149 scope, at various points in the life of this project, is provided in Table 1.

PROJECT DESCRIPTION

TH 149

The project is located along TH 149 in the City of Eagan from TH 55 to I-494 (see Attachment A, Figure 1: TH 149 Project Location Map). The project description currently includes a five-lane section (three northbound and two southbound through lanes) along TH 149. The description also includes improvements at the I-494 north ramp at its intersection with TH 149 (see Attachment A, Figure 2: TH 149 Proposed Improvements). In addition, the City plans to rebuild the existing traffic signals and construct a multiuse trail on the west side of the corridor. The overall objective of the proposed project is to provide the additional capacity necessary to accommodate existing and future traffic volumes along the TH 149 corridor.

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3830 Pilot Knob Road
Eagan, MN 55122-1810
651.675.5000 phone
651.675.5012 fax
651.454.8535 TDD

Maintenance Facility
3501 Coachman Point
Eagan, MN 55122
651.675.5300 phone
651.675.5360 fax
651.454.8535 TDD

www.cityofeagan.com

The Lone Oak Tree
The symbol of
strength and growth
in our community.

Table 1**Summary of Project Scope**

Project Element	Original STP Application Submittal	Scope Change #1 (approved June 21, 2012)	Current Scope Change Request #2
<i>Proposed Typical Section</i>	6-lane (3 NB, 3 SB), median divided	5-lane (3 NB, 2 SB), median divided	No Change
<i>Project Limits</i>			
South	TH 55	No Change	No Change
North	400 feet north of the northern interchange ramp of I-494	Just north of I-494	Approx. 250 feet north of southern interchange ramp of I-494
<i>TH 149/I-494 North Ramp</i>			
NB Right Turn Lane	Construct dual right turn lanes	Modify to free right condition	Removed (To be constructed via different State project)
Replace Traffic Signal	Included	Included	Removed (To be constructed via different State project)
WB Dual Left Turn Lane	Not Included	Construct dual left turn lanes	Removed (To be constructed via different State project)
<i>Multi-Use Trail</i>			
South Limits	TH 55	No Change	No Change
North Limits	Corporate limits (south end, I-494 bridge)	Corporate limits (south end, I-494 bridge)	Blue Gentian Road
<i>Funding</i>			
Federal (%)	\$2,480,000 (80%)	\$2,146,400 (80%)	\$1,888,800 (80%)
Match (%)	\$620,000 (20%)	\$536,600 (20%)	\$472,200 (20%)
Total Estimated Cost	\$3,100,000	\$2,683,000	\$2,361,000

TH 55

As the TH 149 project has matured, it has been joined with an adjacent Non-Freeway Principal Arterial STP project on TH 55 from the north intersection of TH 149 to the south intersection of TH 149 (see Attachment A, Figure 3: TH 55 Project Location Map). The TH 55 project currently includes construction of a six-lane section along TH 55 as well as rebuilding existing traffic signals and construction of a multiuse trail on the south side of the corridor (see Attachment A, Figure 4: TH 55 Proposed Improvements).

Both projects are currently being designed and will be constructed under one contract to capture economies of scale and reduce disruption to the travelling public. Therefore, scope change requests for both projects are being included in this correspondence.

PROJECT UPDATETH 149

Over the past year, the City of Eagan has continued its project coordination efforts with MnDOT and has successfully moved the TH 149 project into the final design phase. The project partners have successfully developed a joint powers agreement, coordinated with local business/property owners regarding planned improvements, hired a consultant to complete the preliminary road/drainage design and prepared the required environmental documentation consisting of a CATEX and an EAW.

Through this process, it also became apparent that the proposed improvements at the I-494 north ramp posed a particular jurisdictional and funding challenge being that they were physically located in the City of Mendota Heights. Under the federal funding criteria for the TH 149 project, the City of Eagan is responsible for a 20 percent local match. The Eagan City Council would have a hard time justifying spending these local dollars in another City. The City of Mendota Heights concurs with this notion.

Additionally, it has been determined through the environmental documentation process that the originally proposed north termini for the proposed multi-use trail, on the west side of TH 149, does not meet the logical termini definition.

TH 55

The preliminary layout the TH 55 project included two access closures and one access modification. The City has had discussions with a property owner where a closure was proposed and has come to better understand the type of industrial business the direct, partial (right-in/right-out), private access serves. This business provides crane and heavy-haul services which entail long, multi-axle vehicles accessing the property. These vehicles have challenging requirements from a turning movement and related roadway geometric standpoint, rendering the direct access invaluable to the property and the business that operates upon it. The City has determined that the impact to the adjacent property is too significant to close the direct, partial, private access as part of this project. Instead, the City will work with the current and/or future property owner(s) to provide a supporting frontage road system and eliminate the direct access to TH 55 during future redevelopment of the property when it occurs. MnDOT has indicated its support for this scope change.

REQUESTED CHANGES OF SCOPE

TH 149

Based on the information provided above, the City of Eagan respectfully requests the following changes to the scope of the TH 149 project.

1. Remove the improvements at the I-494 north east ramp at its intersection with TH 149.
2. Remove construction of the multi-use trail on the west side of TH 149 between Blue Gentian Road and the I-494 bridge.

These requested changes in scope for the TH 149 improvement project continue to respond to the transportation needs for the study area.

TH 55

A minor revision to the TH 55 project scope, consisting of a change to a proposed access closure, is also being requested.

MODIFIED COST ESTIMATE

TH 149

As previously mentioned, the STIP currently indicates a total project cost of \$2,683,000 for TH 149 improvements in fiscal year 2014. In order to be consistent with the modified scope and proposed design concept, the construction cost estimate was updated accordingly.

By removing the improvements at the I-494 north ramp and a portion of the multi-use trail, the estimated cost of the TH 149 project was reduced. This includes removing the proposed right turn lane and concrete island from NB TH 149 at the I-494 north ramp and one (potential) temporary signal system and one permanent signal system at this location. This also includes removing the proposed WB right turn lane along the I-494 north ramp. Finally, the segment of multi-use trail between Blue Gentian Road and the I-494 bridge was removed. Related quantities (i.e., storm sewer, pavement markings, turf establishment, etc.) were reduced accordingly.

As shown in Table 2, the revised total cost for the project is now estimated at \$2,361,000. This updated cost estimate was developed by using simple area and volume calculations, lump sums, and percent of construction cost. The City of Eagan expects to maintain the 80/20 cost split.

Table 2
Revised Cost Estimate (TH 149)

Project Element	Cost
Mobilization	\$102,000
Removals	\$24,000
Roadway (grading & borrow)	\$129,500
Roadway (aggregate & paving)	\$568,500
Storm sewer	\$150,000
Ponds	\$16,000
Concrete items (curb & gutter, sidewalk, medians)	\$106,700
Pedestrian curb ramps (ADA)	\$7,000
Path/trail construction	\$40,500
Traffic control	\$41,000
Striping	\$3,500
Signing	\$10,500
Turf (erosion & landscaping)	\$18,000
Temporary traffic signals (3)	\$250,000
Permanent traffic signals (3)	\$675,000
Contingencies (10%)	\$218,000
Total	\$2,361,000

TH 55

The STIP currently indicates a total project cost of \$3,544,130 for TH 55 improvements in fiscal year 2015 with \$2,640,000 (75%) in federal funds and \$904,130 (25%) in matching funds. The elimination of the access closure results in a minor cost reduction that has been offset by additional costs that will be incurred due to greater than anticipated subcuts in the proposed widening sections. Therefore, funding for the project is proposed to remain in the current amounts and proportions.

IMPACT ON THE PRIORITIZING CRITERIA

TH 149

Although the TH 149 project scope has changed since the approved June 2012 scope change request, the benefits achieved through the construction of this project remain similar to its original scope. A review of the 2009 federal funding application and 2012 scope change request for TH 149 was completed. It is important to note that the proposed improvements at the I-494 north ramp are focused on the ramp itself, with no additional through or turn lanes added to the TH 149 intersection approaches. Therefore, all of the calculations under the prioritizing criteria section are unaffected by the elimination of the I-494 north ramp improvements, since the identified benefits are limited to improvements along the TH 149 Reliever route.

The elimination of the segment of multi-use trail between Blue Gentian Road and I-494 may slightly reduce the 58 points the project was awarded in the Integration of Modes (D-7) category. However, the project received 124 points more than the first project that did not receive funding.


Therefore, it is unlikely the project would not have been awarded funding with the elimination of this trail segment.

TH 55

The proposed scope of the 2011 STP Non-Freeway Principal Arterial funding application for the TH 55 project included two (2) complete access closures and one (1) access modification. The project was awarded 17 points in the Access Management Improvements (D-4) category. The requested elimination of one (1) of the complete access closures would likely result in fewer points being awarded to the project in the Access Management Improvements (D-4) category. The partial loss, or total loss, of the 17 points awarded in this category would not change the project's ranking relative to other projects in the Non-Freeway Principal Arterial group since the TH 55 project application scored the most points in the funding group (986 total) with the second project scoring 35 points less. Therefore, it is unlikely the project would not have been awarded funding with the elimination of this access closure.

We look forward to discussing our request with you in more detail. If you have any questions or require additional information, please contact me.

Sincerely,


Russ Matthys, P.E.
Director of Public Works
City of Eagan

Attachments: Attachment A: Figures

- Figure 1: TH 149 Project Location Map
- Figure 2: TH 149 Proposed Improvements
- Figure 3: TH 55 Project Location Map
- Figure 4: TH 55 Proposed Improvements

Attachment B: Approved Scope Change Request

ATTACHMENT A
Figures

Therefore, it is unlikely the project would not have been awarded funding with the elimination of this trail segment.

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Sincerely,



Russ Matthys, P.E.

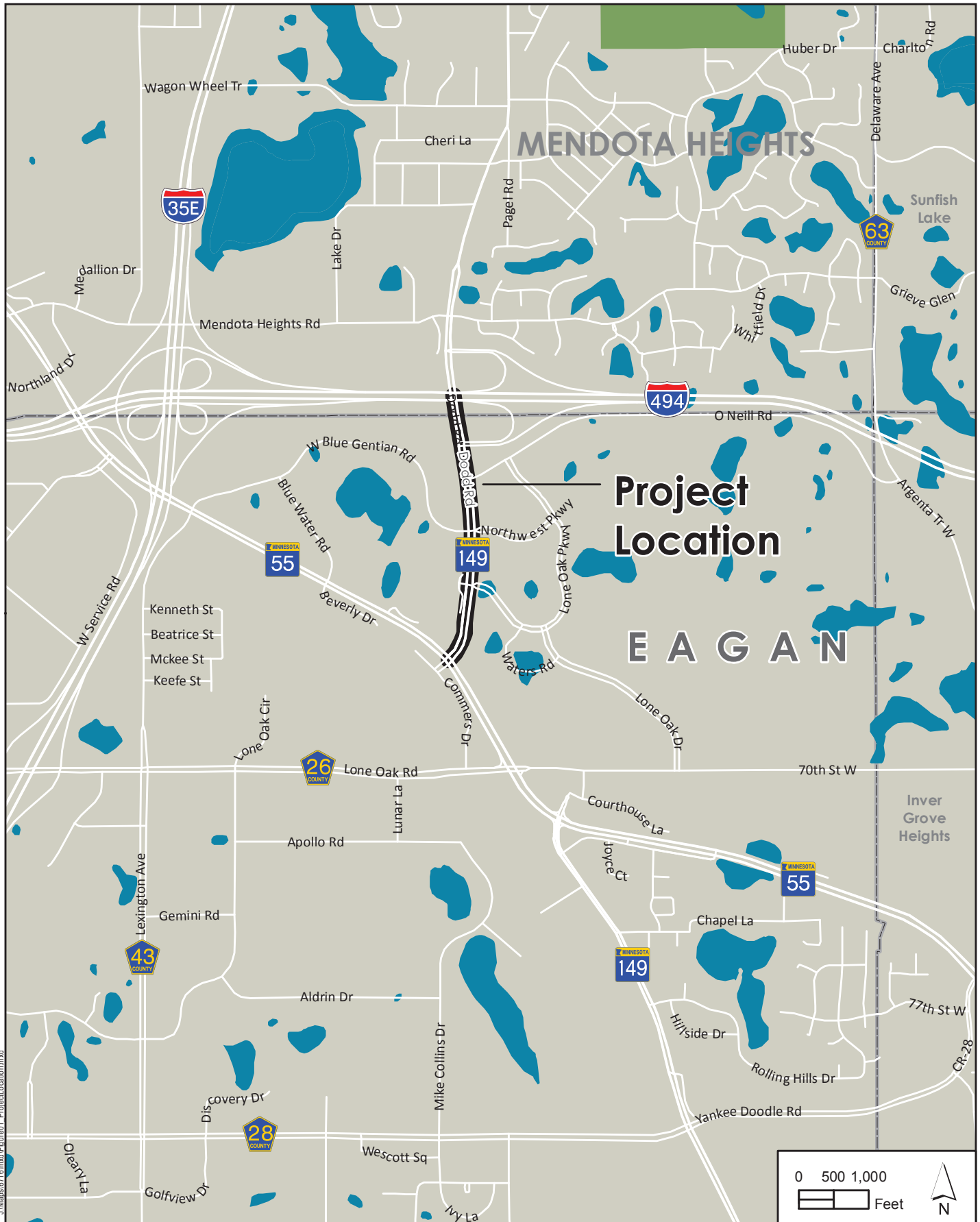
Director of Public Works

City of Eagan

Attachments: Attachment A: Figures

- Figure 1: TH 149 Project Location Map
- Figure 2: TH 149 Proposed Improvements
- Figure 3: TH 55 Project Location Map
- Figure 4: TH 55 Proposed Improvements

Attachment B: Approved Scope Change Request

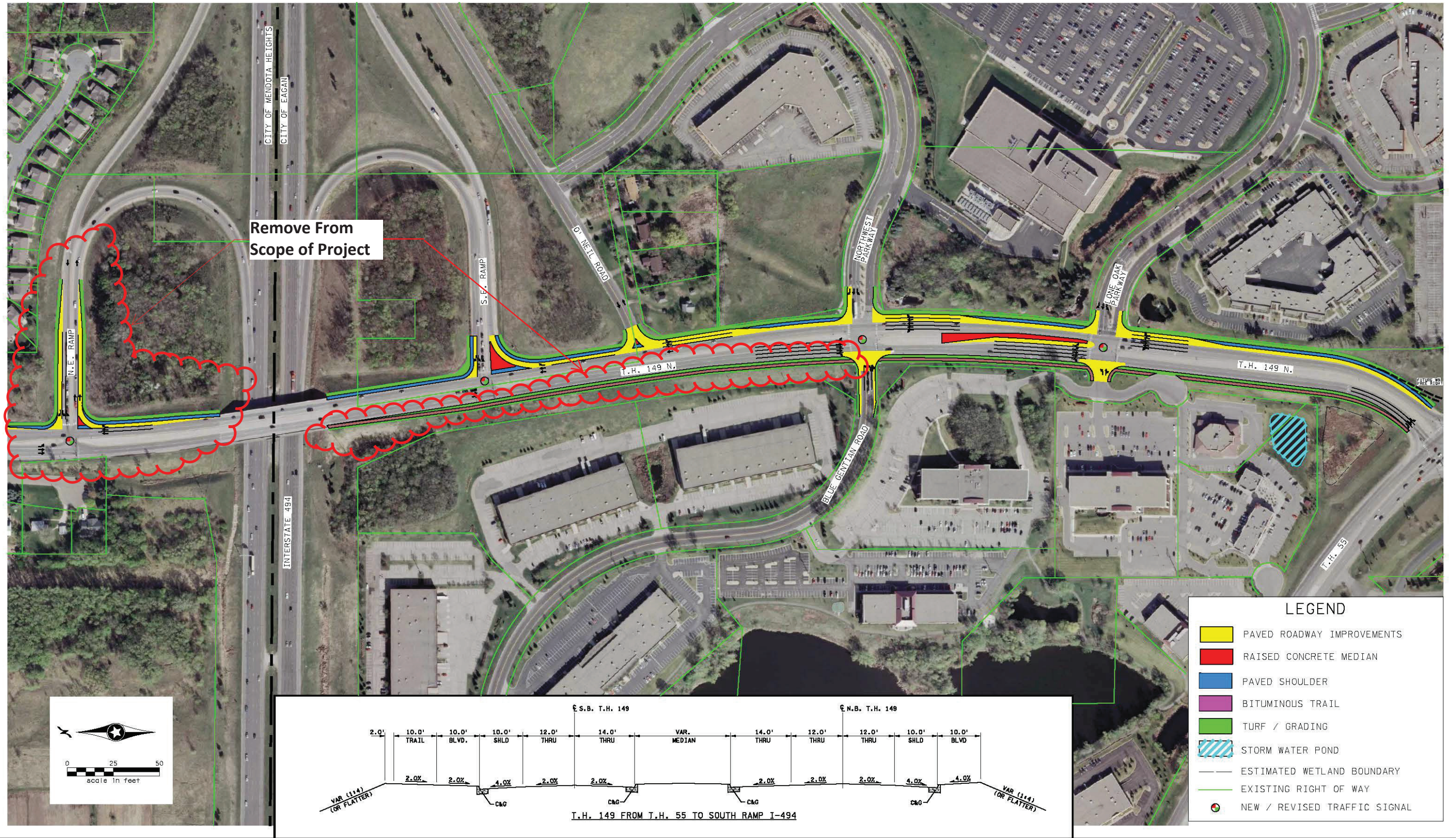


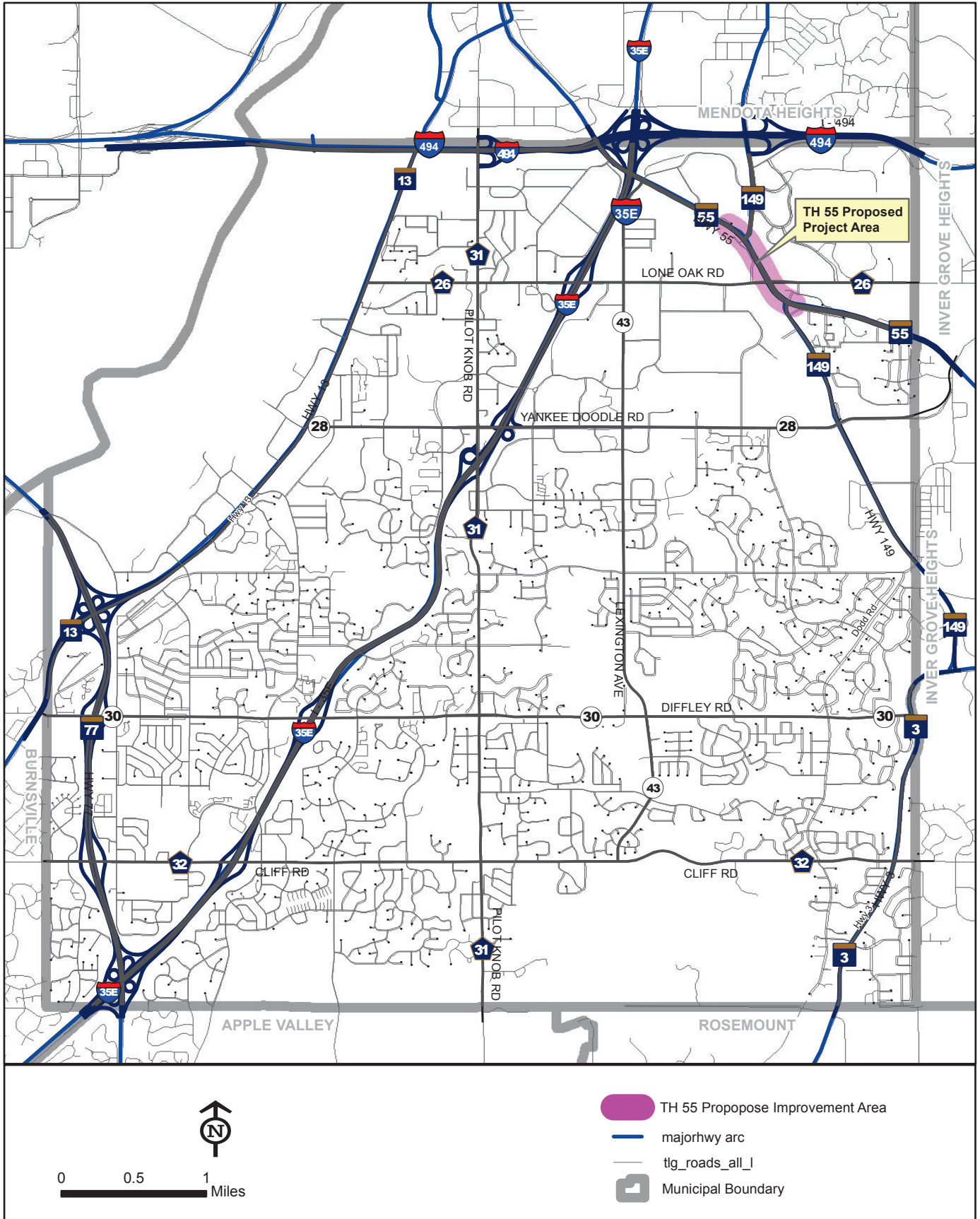
Project Location

TH 149 Improvement Project
 S.P. 1917-44, S.P. 195-010-010
 City of Eagan, Minnesota

Figure 1

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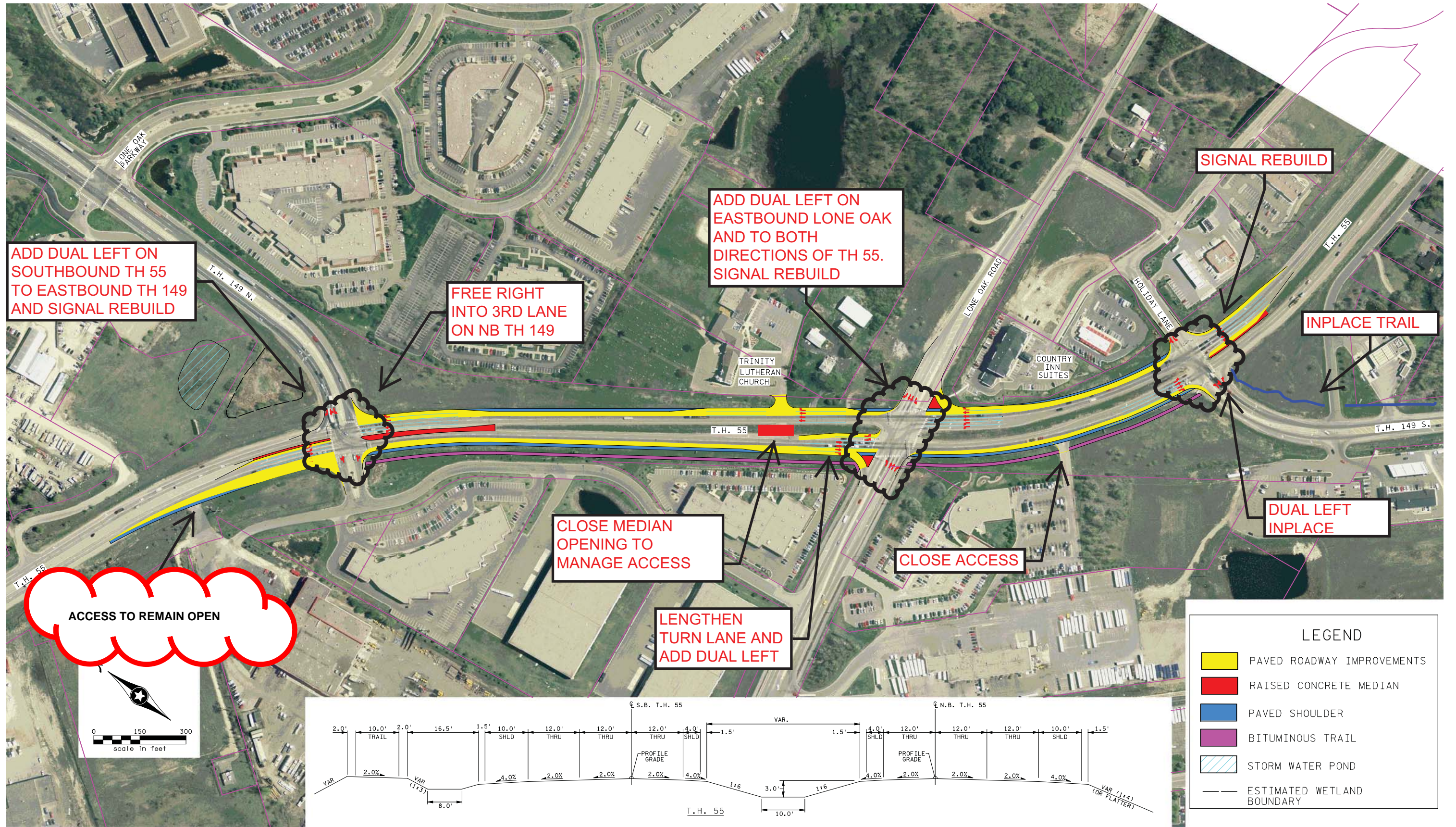


Project Location

TH 55 - TH 149 North Junction to TH 149 South Junction
 STP - Principal Arterial
 City of Eagan, Minnesota

Figure 3

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Proposed Improvements
 TH 55-TH 149 North Junction to TH 149 South Junction
 STP- Principal Arterial.P. xxx-xxx
 City of Eagan, Minnesota

Figure 4

ATTACHMENT B
Approved Scope Change Request