APPENDIX A

Figures

Figure 1

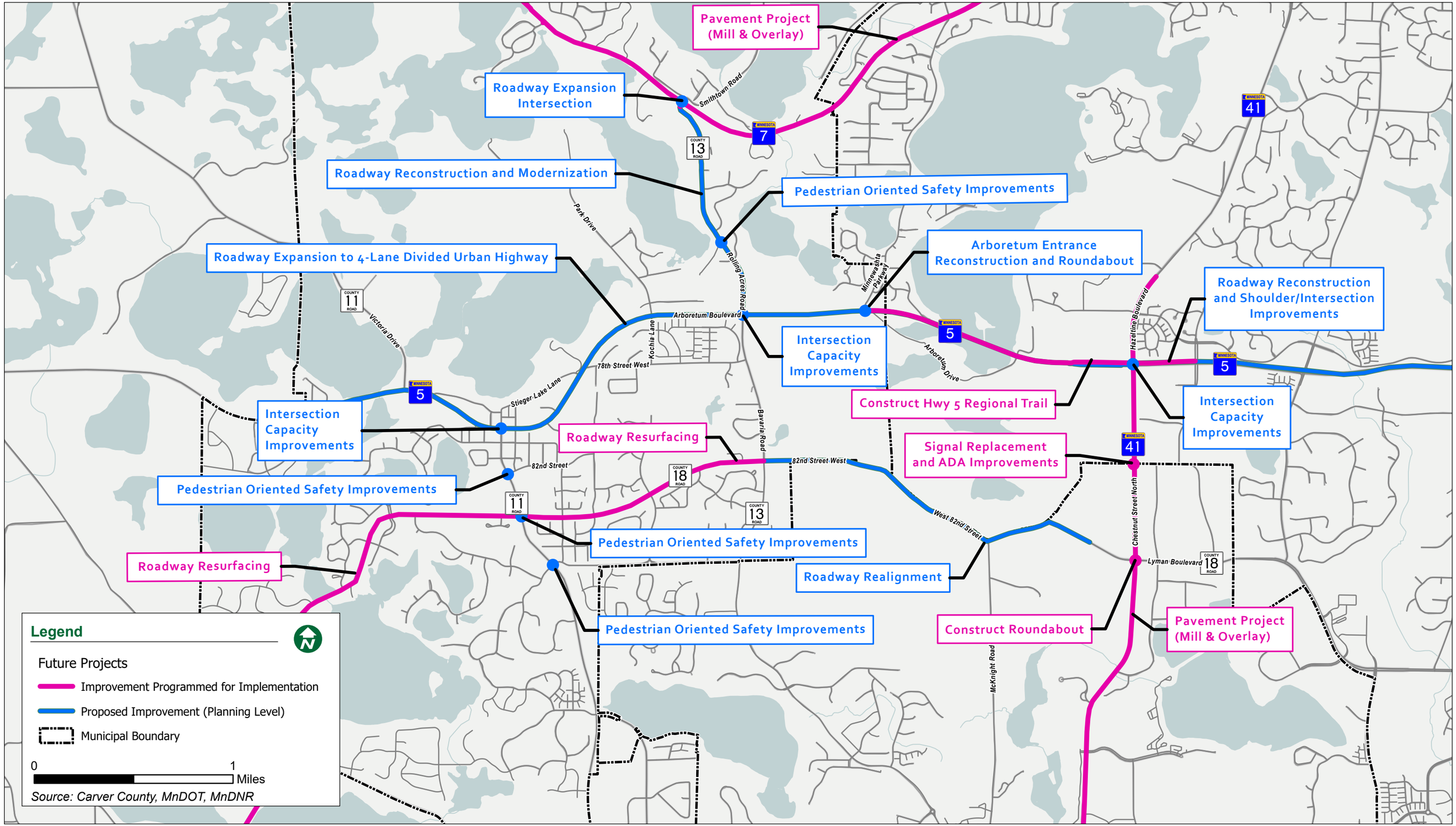

Pavement Project (Mill & Overlay)
Roadway Expansion Intersection
Roadway Reconstruction and Modernization
Pedestrian Oriented Safety Improvements
Roadway Expansion to 4-Lane Divided Urban Highway
Arboretum Entrance Reconstruction and Roundabout
Roadway Reconstruction and Shoulder/Intersection Improvements
Intersection Capacity Improvements
Construct Hwy 5 Regional Trail
Intersection Capacity Improvements
Intersection Capacity Improvements
Roadway Resurfacing
Signal Replacement and ADA Improvements
Pedestrian Oriented Safety Improvements
Pedestrian Oriented Safety Improvements
Roadway Resurfacing
Roadway Realignment
Construct Roundabout
Pavement Project (Mill & Overlay)
Pedestrian Oriented Safety Improvements
Smithtown Road
Park Drive
Rolling Acres Road
Minnewashta Parkway
Arboretum Boulevard
Victoria Drive
Kochia Lane
78th Street West
Stieger Lake Lane
Arboretum Drive
Hazeltine Boulevard
Bavaria Road
82nd Street
82nd Street West
West 82nd Street
Chestnut Street North
Lyman Boulevard
McKnight Road
Legend
Future Projects
Improvement Programmed for Implementation
Proposed Improvement (Planning Level)
Municipal Boundary
0
1
Miles
Source: Carver County, MnDOT, MnDNR

Figure 5

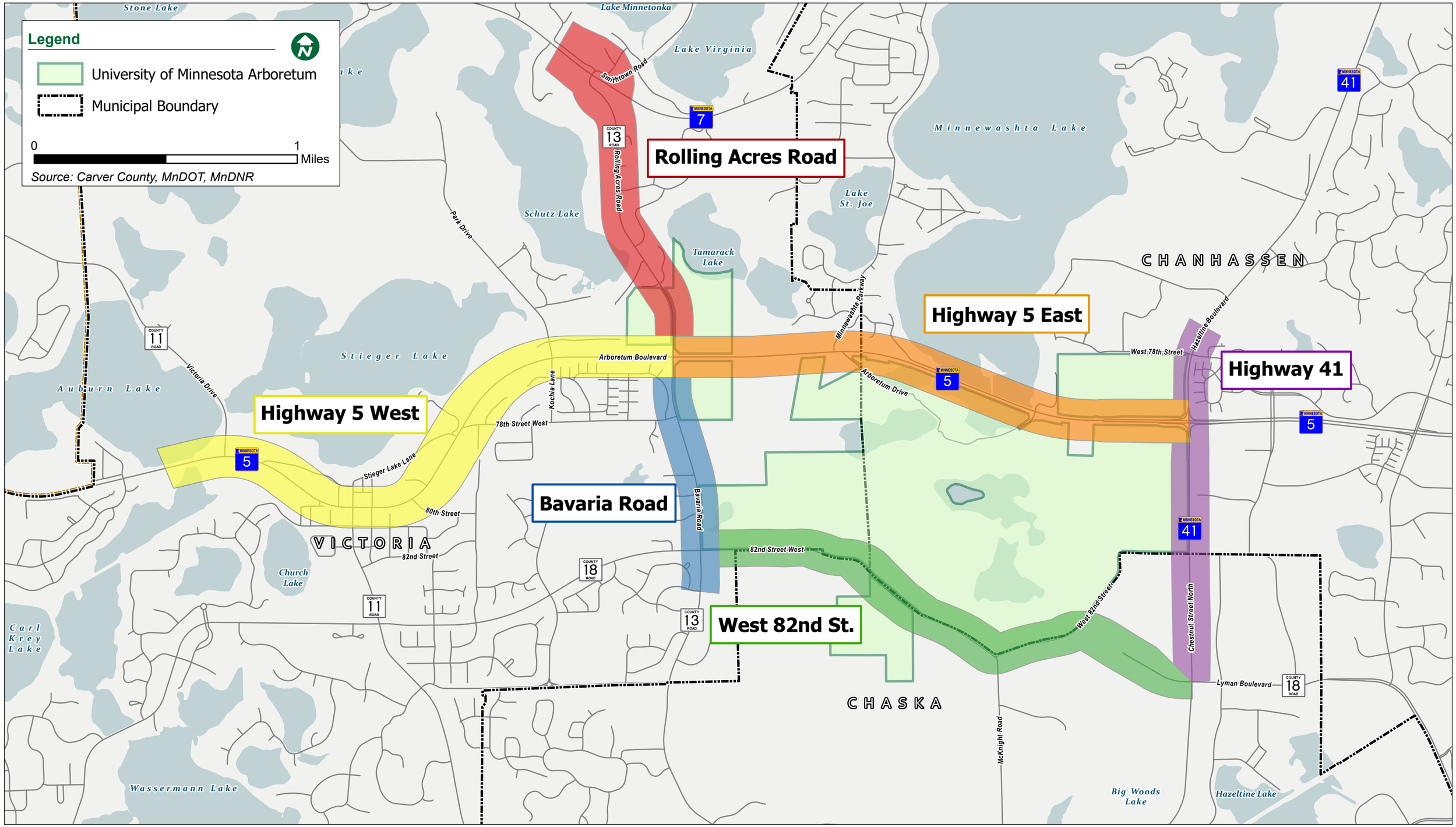
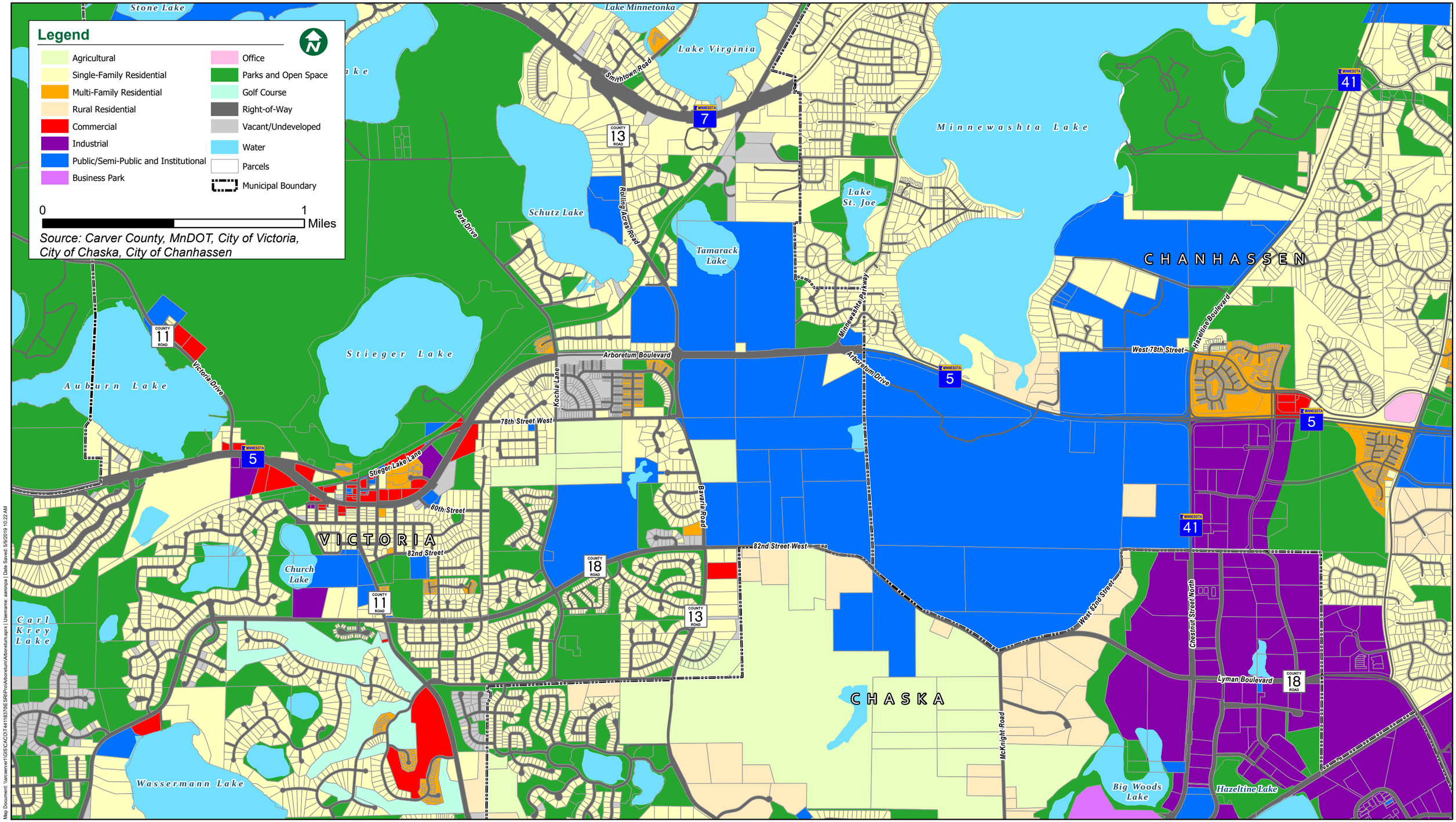
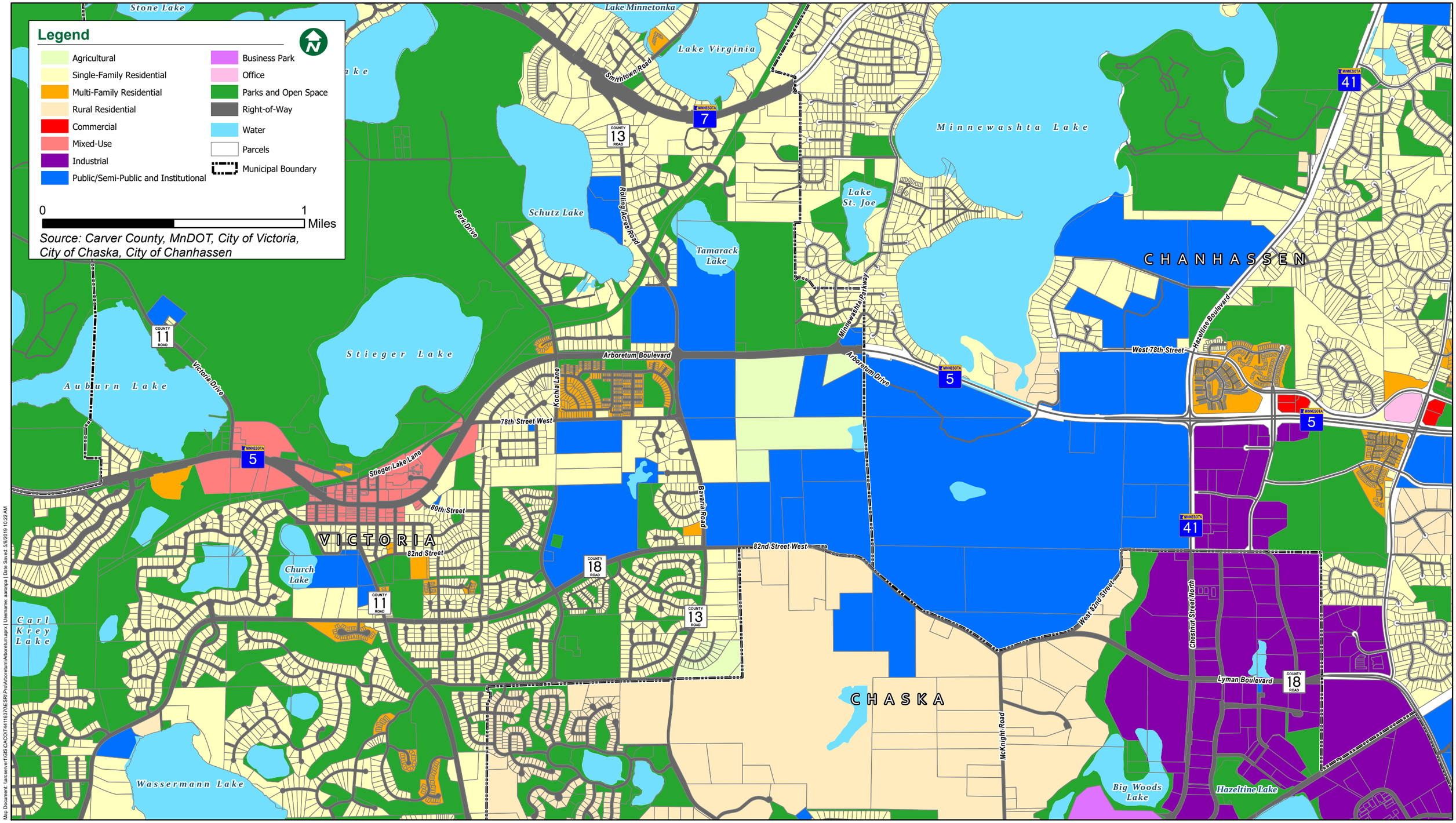

Legend
University of Minnesota Arboretum
Municipal Boundary
0
1
Miles
Source: Carver County, MnDOT, MnDNR
Rolling Acres Road
Highway 5 East
Highway 41
Highway 5 West
Bavaria Road
West 82nd St.
Stone Lake
Lake Minnetonka
Lake Virginia
Minnewashta Lake
Lake St. Joe
Schutz Lake
Tamarack Lake
Stieger Lake
Auburn Lake
Church Lake
Carl Krey Lake
Wassermann Lake
Big Woods Lake
Hazeltine Lake
CHANHASSEN
VICTORIA
CHASKA
Smithtown Road
Rolling Acres Road
Park Drive
Minnewashta Parkway
Arboretum Boulevard
Arboretum Drive
Victoria Drive
Kochia Lane
78th Street West
Stieger Lake Lane
80th Street
82nd Street
Bavaria Road
82nd Street West
West 82nd Street
West 78th Street
Hazeltine Boulevard
Chestnut Street North
Lyman Boulevard
McKnight Road
MINNESOTA 7
MINNESOTA 5
MINNESOTA 41
COUNTY 13 ROAD
COUNTY 11 ROAD
COUNTY 18 ROAD

Figure 6



Map Document: \\arcserver1\GIS\CACO\T44118370ESRIPro\Arboretum\Arboretum.aprx | Username: aaronpa | Date Saved: 5/9/2019 10:22 AM

Figure 7



Map Document: \\arcserver\1\GIS\CACO\T44118370\ESRI\Pro\Arboretum\Arboretum.aprx | Username: aaronpa | Date Saved: 5/9/2019 10:22 AM

Figure 8

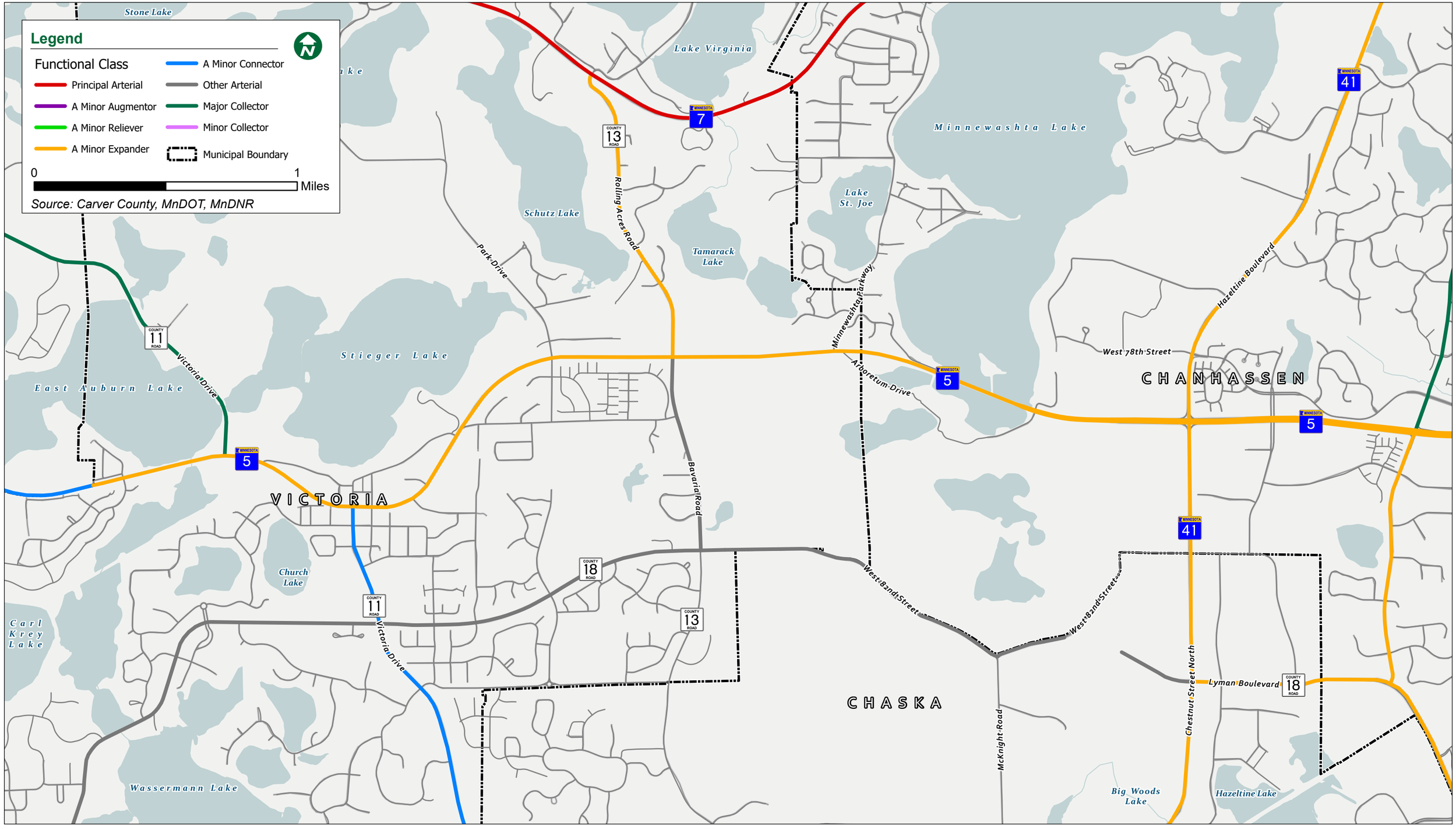

Legend
Functional Class
Principal Arterial
A Minor Augmentor
A Minor Reliever
A Minor Expander
A Minor Connector
Other Arterial
Major Collector
Minor Collector
Municipal Boundary
0
1
Miles
Source: Carver County, MnDOT, MnDNR
Stone Lake
Lake Virginia
Minnewashta Lake
Lake St. Joe
Schutz Lake
Tamarack Lake
Stieger Lake
East Auburn Lake
Church Lake
Carl Krey Lake
Wassermann Lake
Big Woods Lake
Hazeltine Lake
VICTORIA
CHANHASSEN
CHASKA
Rolling Acres Road
Park Drive
Victoria Drive
Minnewashta Parkway
Arboretum Drive
Bavaria Road
West 82nd Street
West 78th Street
Hazeltine Boulevard
McKnight Road
Chestnut Street North
Lyman Boulevard
COUNTY 11 ROAD
COUNTY 13 ROAD
COUNTY 18 ROAD
MINNESOTA 5
MINNESOTA 7
MINNESOTA 41

Figure 9

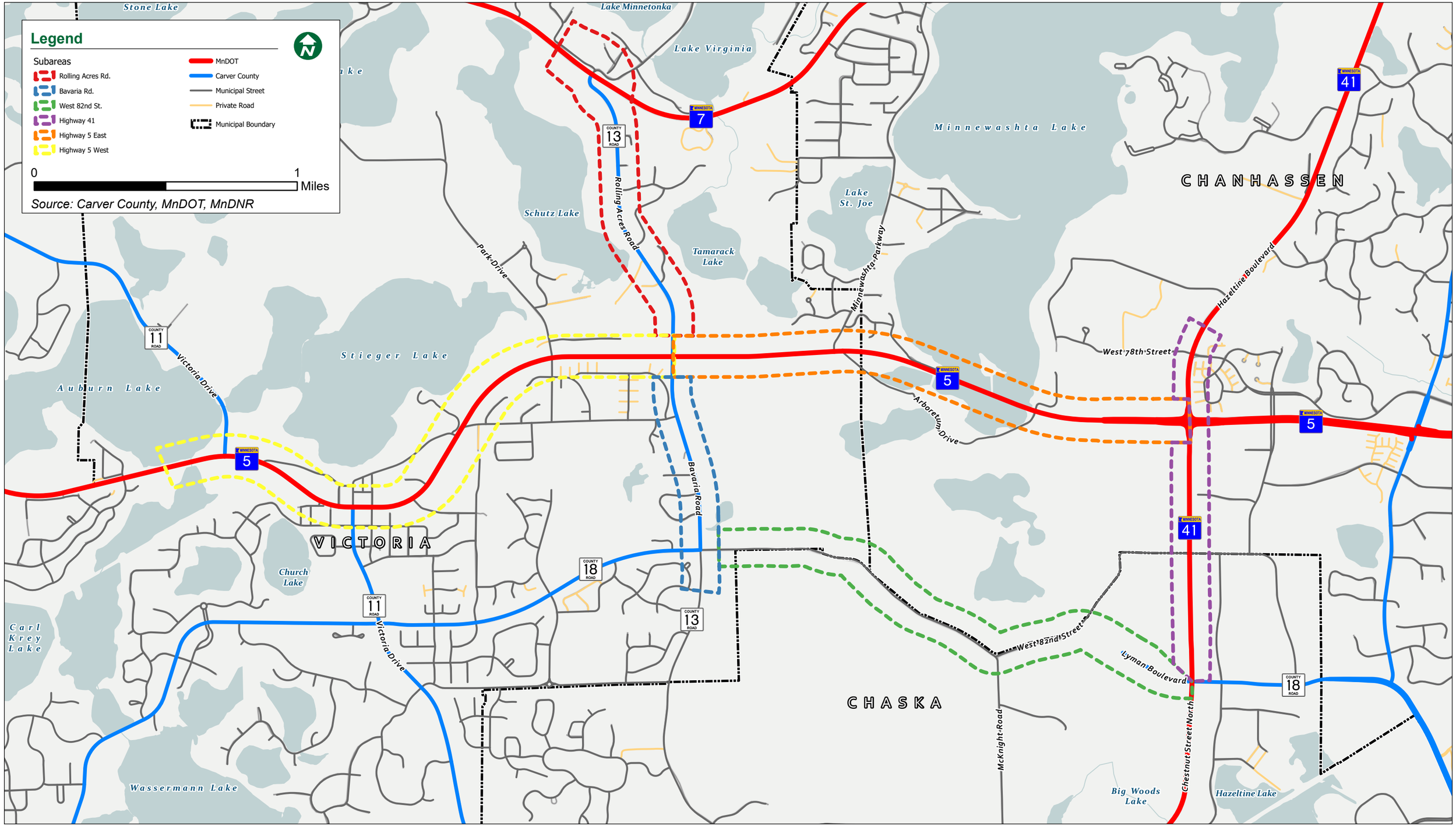

Legend
Subareas
Rolling Acres Rd.
Bavaria Rd.
West 82nd St.
Highway 41
Highway 5 East
Highway 5 West
MnDOT
Carver County
Municipal Street
Private Road
Municipal Boundary
0
1
Miles
Source: Carver County, MnDOT, MnDNR
Stone Lake
Lake Minnetonka
Lake Virginia
Minnewashta Lake
CHANHASSEN
Lake St. Joe
Schutz Lake
Tamarack Lake
Stieger Lake
Auburn Lake
VICTORIA
Church Lake
Carl Krey Lake
Wassermann Lake
CHASKA
Big Woods Lake
Hazeltine Lake
Rolling Acres Road
Park Drive
Minnewashta Parkway
Hazeltine Boulevard
West 78th Street
Arboretum Drive
Victoria Drive
Bavaria Road
West 82nd Street
Lyman Boulevard
McKnight Road
Chestnut Street North
MINNESOTA 7
MINNESOTA 5
MINNESOTA 41
COUNTY 13 ROAD
COUNTY 11 ROAD
COUNTY 18 ROAD

Figure 10

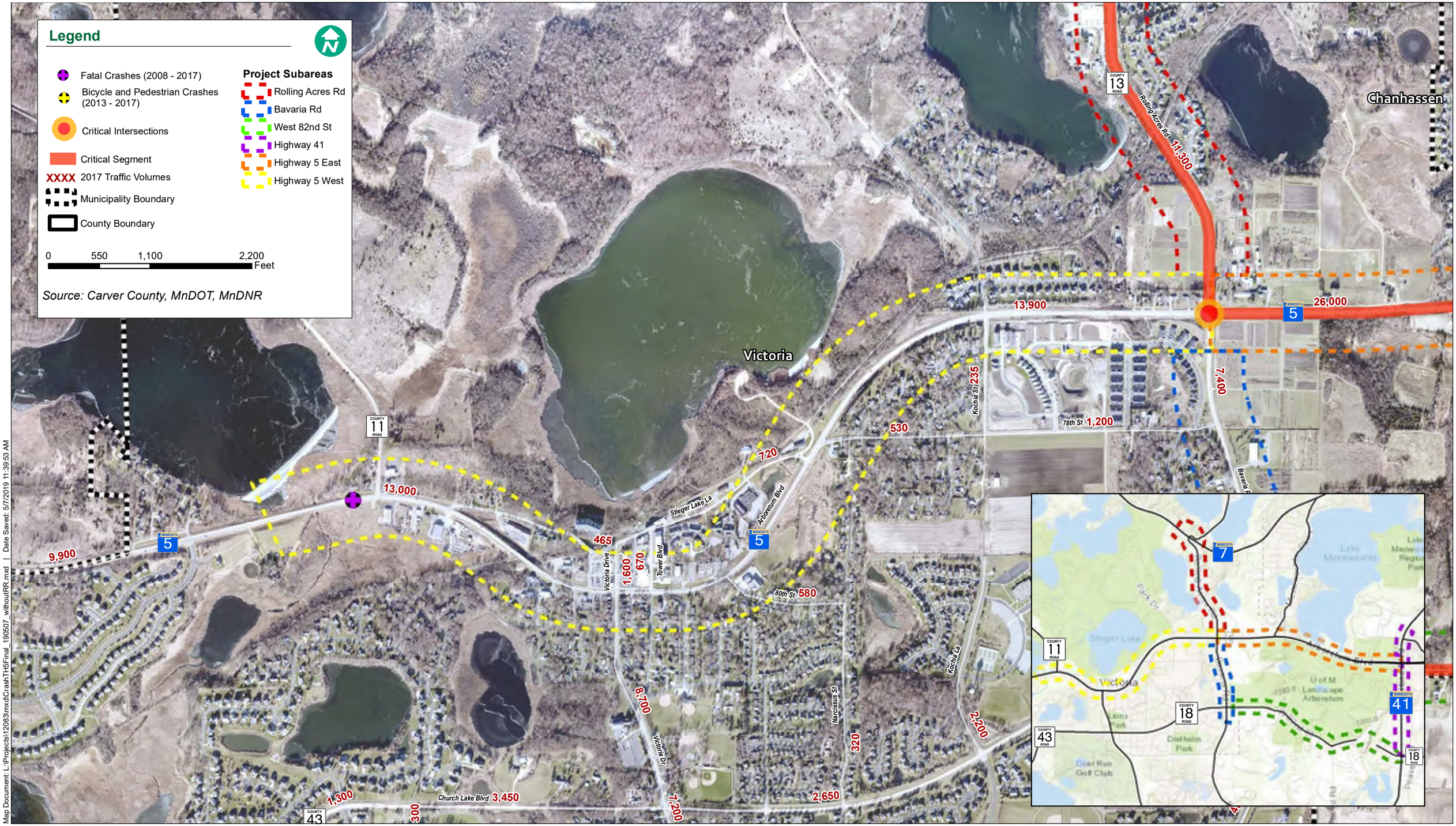


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Figure 11

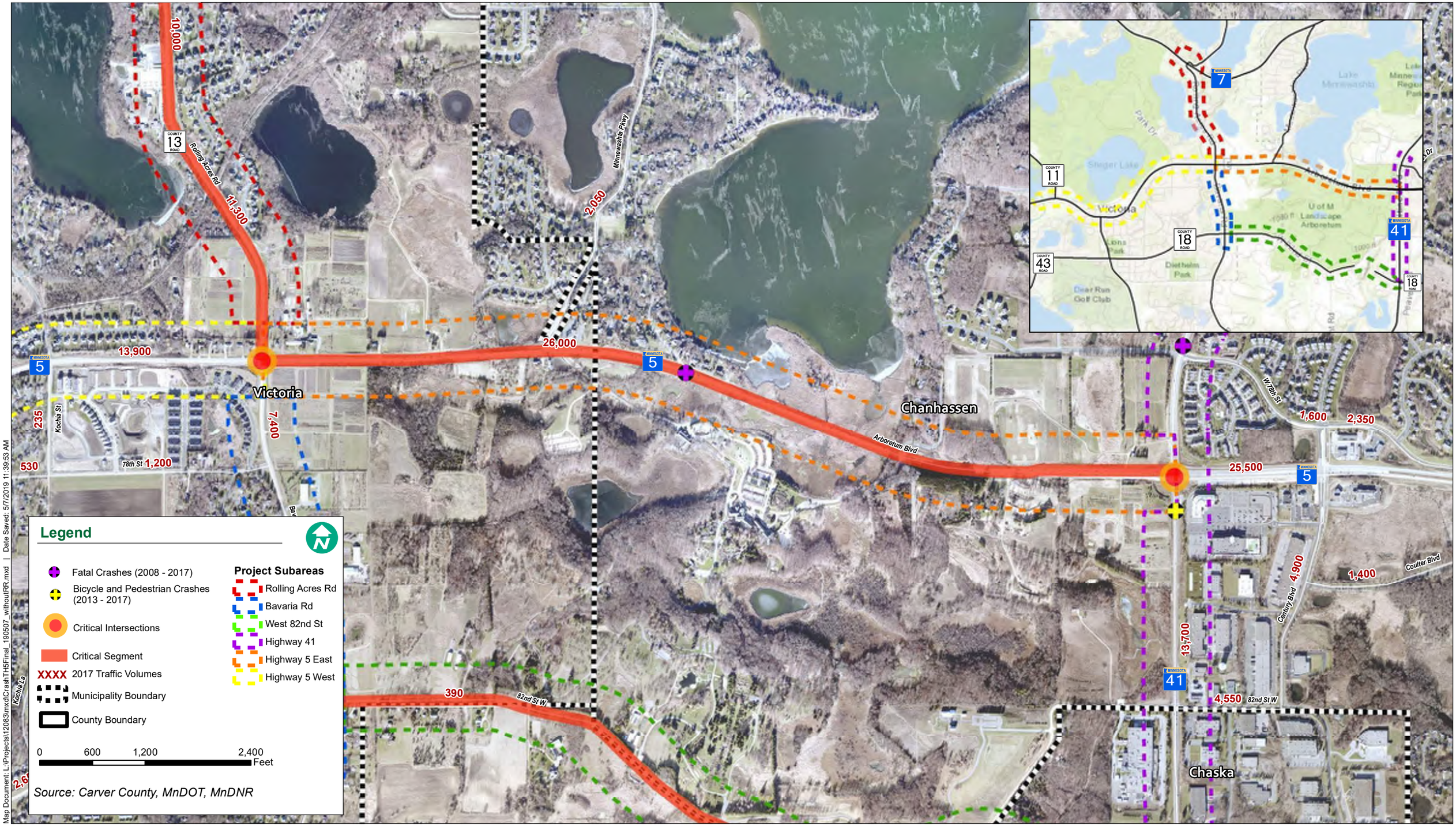
Legend
Fatal Crashes (2008 - 2017)
Bicycle and Pedestrian Crashes (2013 - 2017)
Critical Intersections
Critical Segment
XXXX 2017 Traffic Volumes
Municipality Boundary
County Boundary
Project Subareas
Rolling Acres Rd
Bavaria Rd
West 82nd St
Highway 41
Highway 5 East
Highway 5 West
0 600 1,200 2,400 Feet
Source: Carver County, MnDOT, MnDNR
Victoria
Chanhassen
Chaska
Rolling Acres Rd
Minnewashta Pkwy
Arboretum Blvd
Kochia St
78th St
82nd St W
Century Blvd
Coulter Blvd
W 78th St
10,000
11,300
13,900
26,000
2,050
7,400
1,200
235
530
390
25,500
1,600
2,350
1,400
4,900
13,700
4,550
Map Document: L:\Projects\12083\mxd\CrashTH5Final_190507_withoutRR.mxd | Date Saved: 5/7/2019 11:39:53 AM

Figure 12

Map Document: L:\Projects\12083\mxd\CrashTH5_Portrait_190507.mxd | Date Saved: 5/7/2019 11:54:27 AM

Figure 13

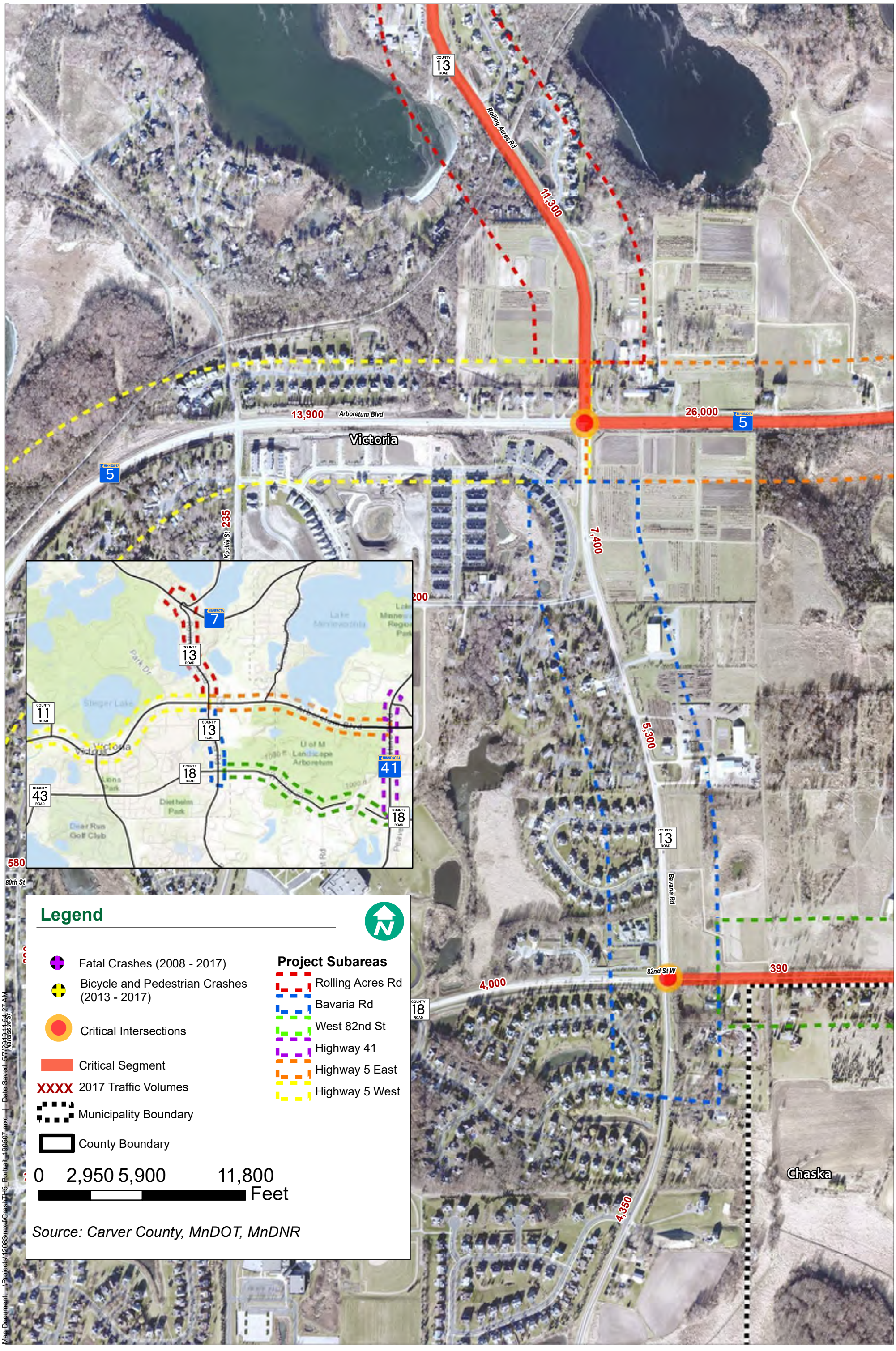
Rolling Acres Rd
11,300
13,900
Arboretum Blvd
Victoria
26,000
7,400
5,300
Kochia St
235
580
80th St
Narcissus St
Bavaria Rd
82nd St W
390
4,000
4,350
Chaska
Legend
Fatal Crashes (2008 - 2017)
Bicycle and Pedestrian Crashes (2013 - 2017)
Critical Intersections
Critical Segment
XXXX 2017 Traffic Volumes
Municipality Boundary
County Boundary
Project Subareas
Rolling Acres Rd
Bavaria Rd
West 82nd St
Highway 41
Highway 5 East
Highway 5 West
0 2,950 5,900 11,800
Feet
Source: Carver County, MnDOT, MnDNR

Figure 14

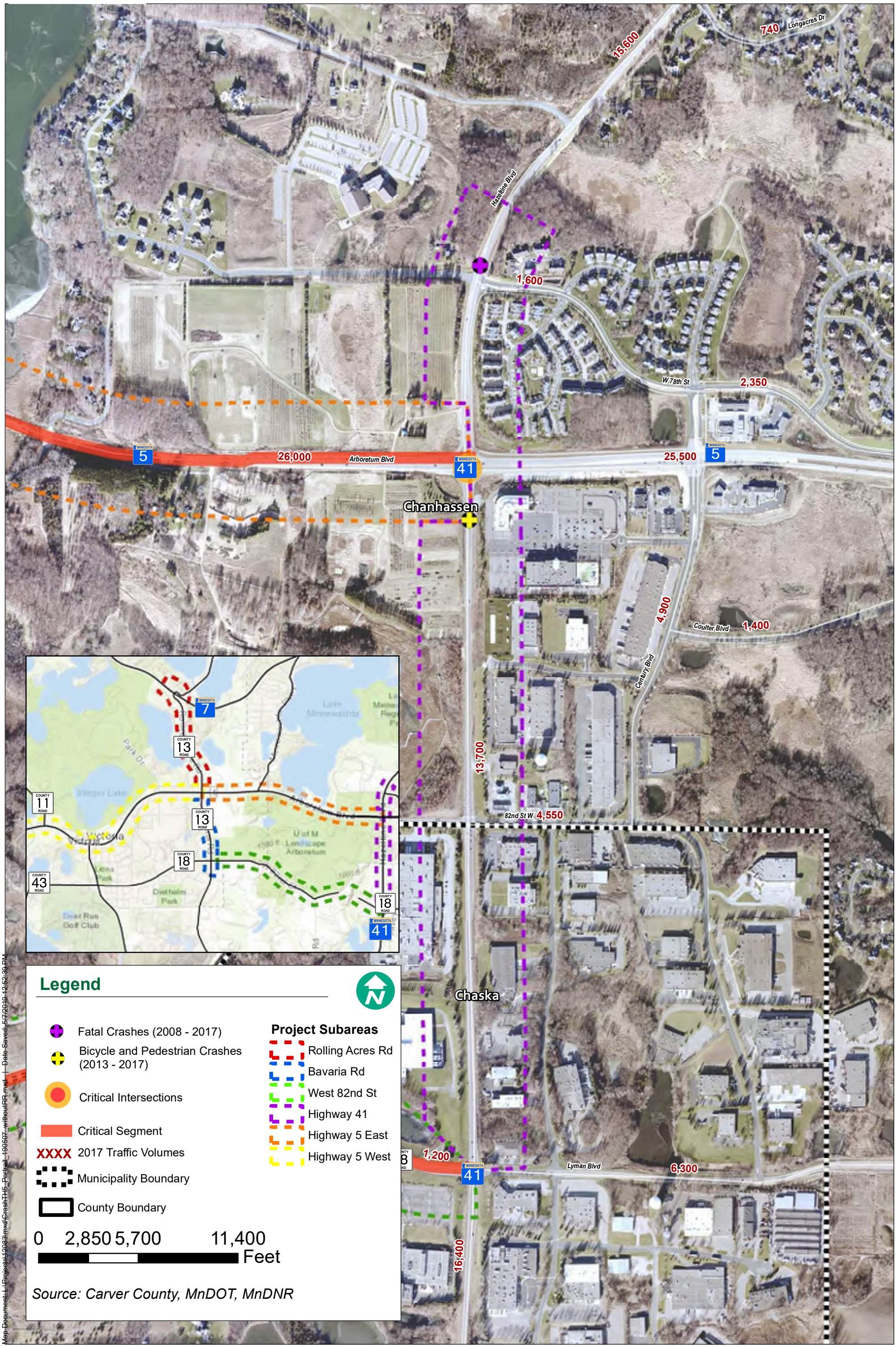

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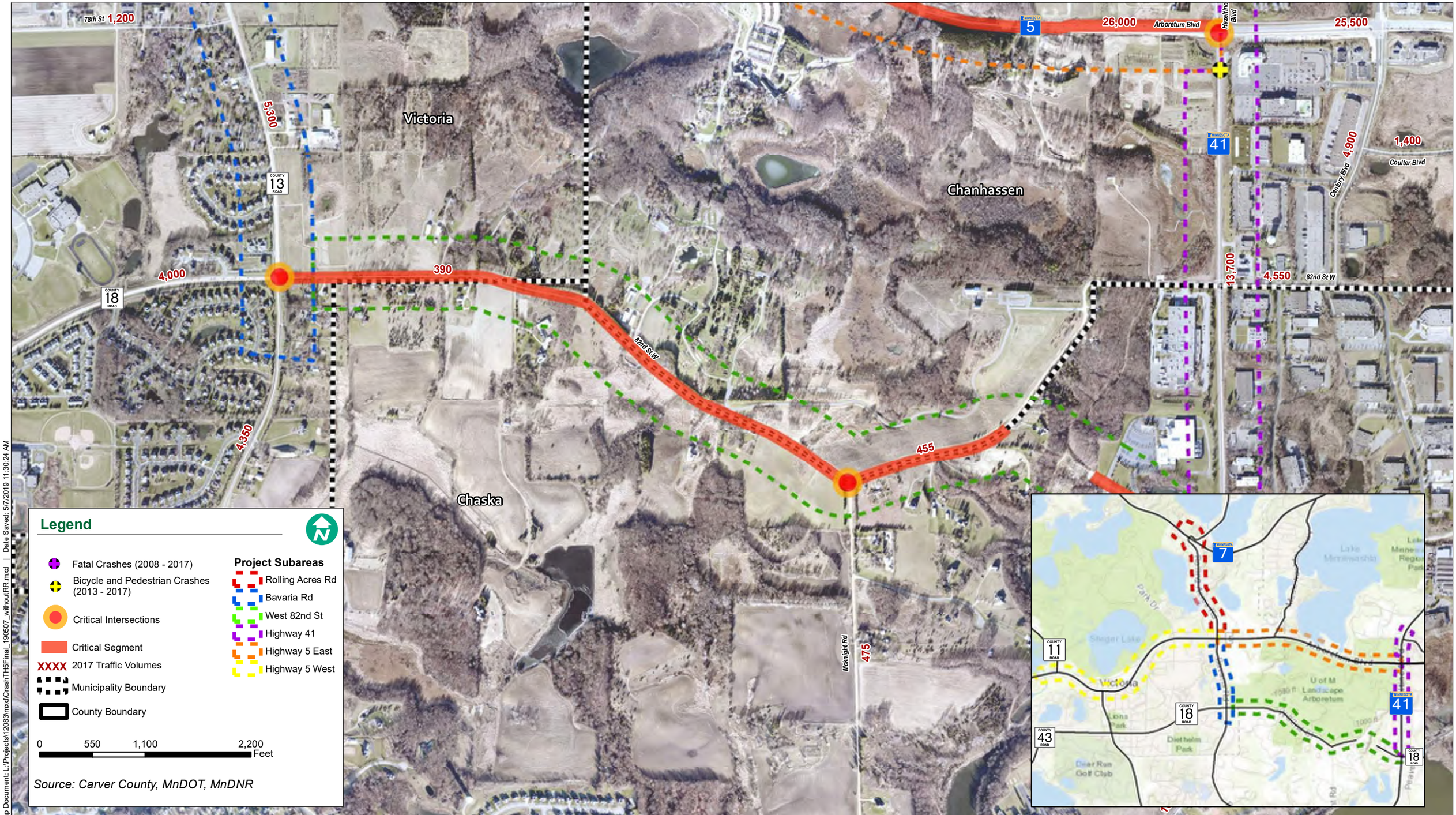
Figure 15



Map Document: L:\Projects\12083\mxd\CrashTH5Final_190507_withoutRR.mxd | Date Saved: 5/7/2019 11:30:24 AM

Access Inventory - Highway 5 West

May 2019

Figure 16

Map Document: L:\Projects\12083\mxd\AccessInventory_190507_withoutRR.mxd | Date Saved: 5/7/2019 10:17:56 PM

Figure 17

Map Document: L:\Projects\12083\mxd\AccessInventory_190507_withoutRR.mxd | Date Saved: 5/7/2019 10:22:50 PM

Figure 18

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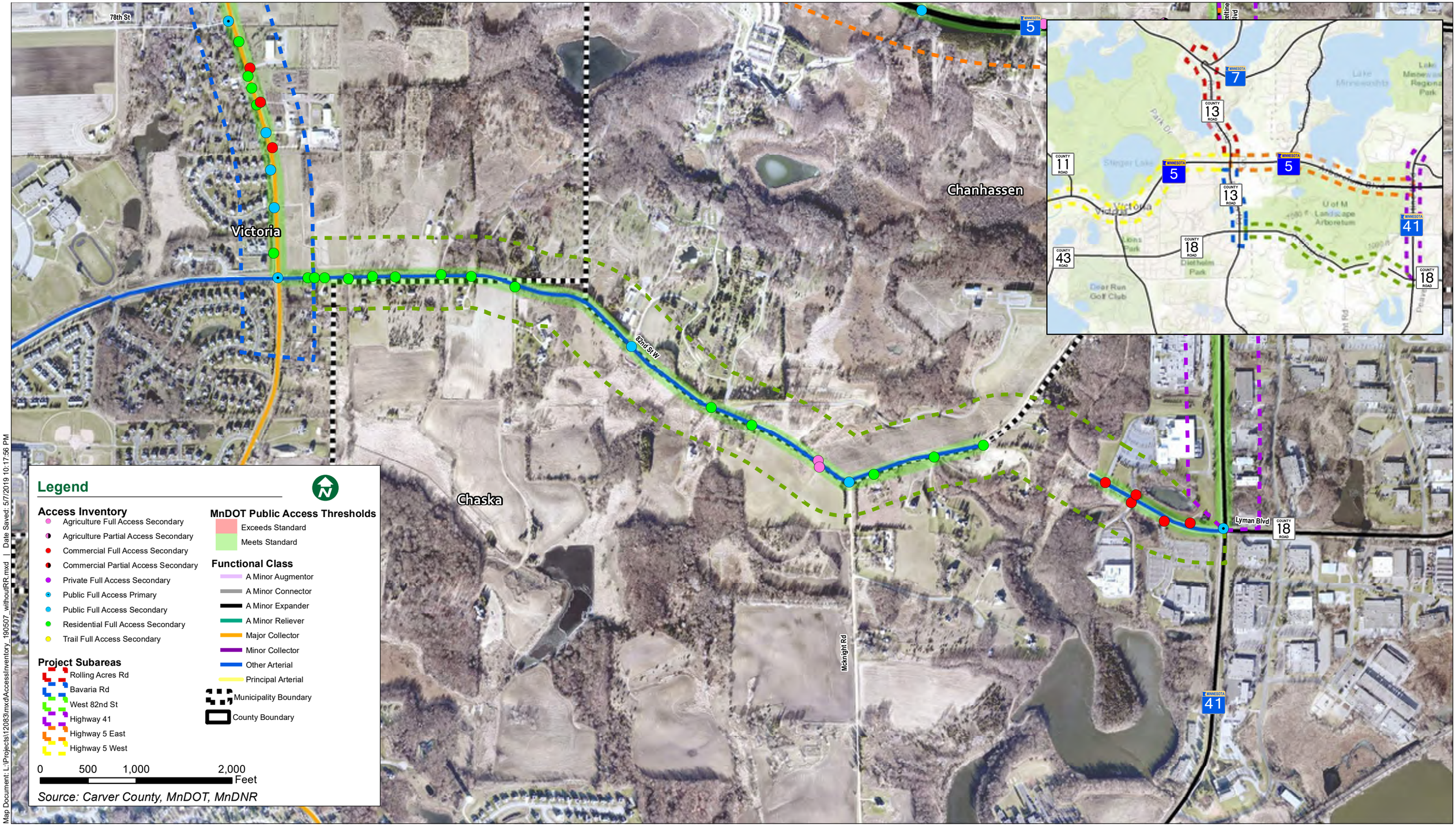
Figure 19

Map Document: L:\Projects\12083\mxd\AccessInventoryTH5_Portrait_190508_withoutRR.mxd | Date Saved: 5/7/2019 10:13:26 PM

Figure 20

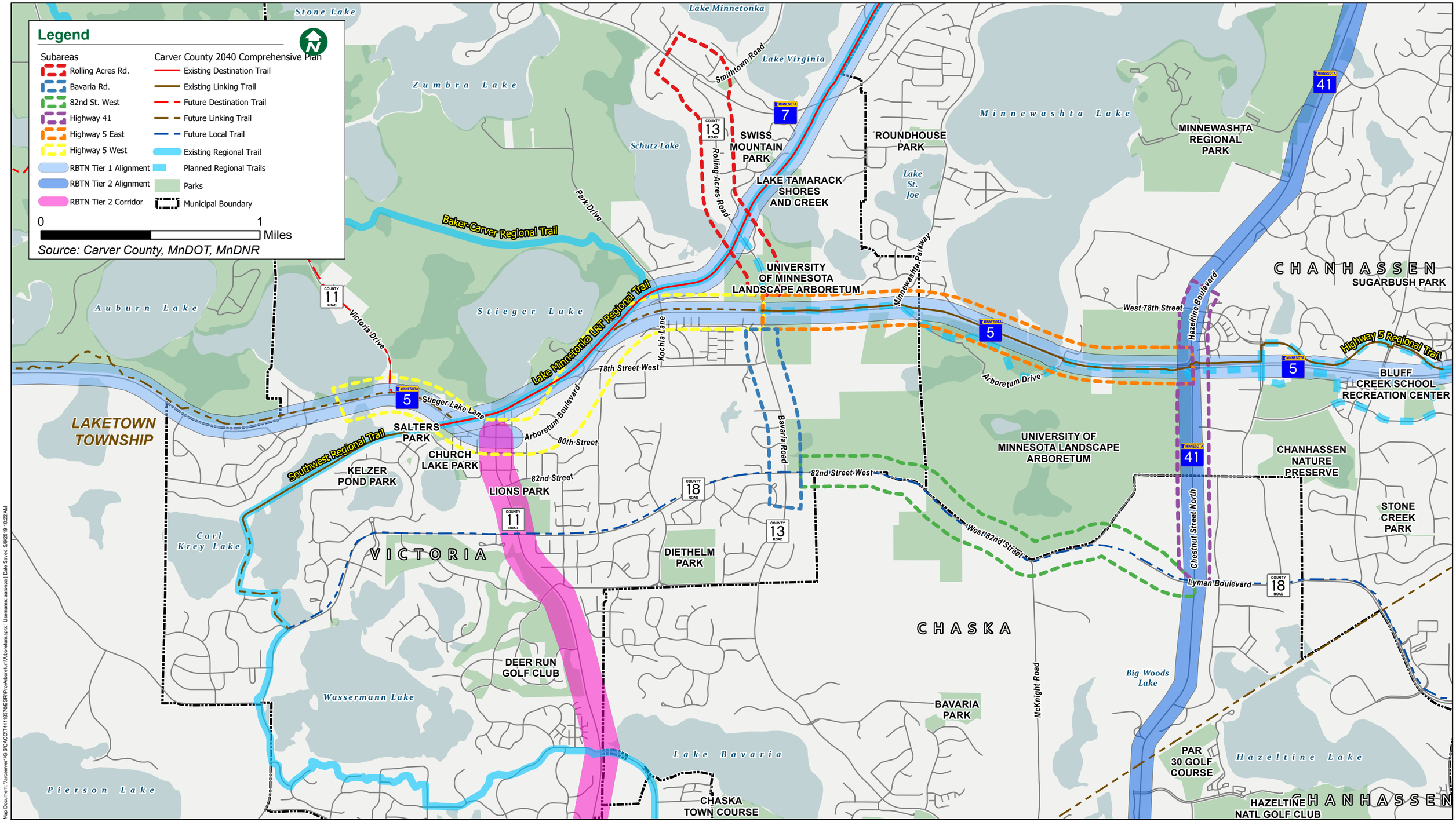


Map Document: L:\Projects\12083\mxd\AccessInventory_190507_withoutRR.mxd | Date Saved: 5/7/2019 10:17:56 PM

Figure 21

Map Document: L:\Projects\12083\mxd\AccessInventoryTH5_Portrait_190508_withoutRR.mxd | Date Saved: 5/7/2019 10:13:26 PM

Figure 22



Map Document: \\arcserver\1\GIS\CACO\T44118370\ESRI\Pro\Arboretum\Arboretum.aprx | Username: aaronpa | Date Saved: 5/9/2019 10:22 AM

Figure 23

Stieger Lake
Auburn Lake
Victoria Drive
CARVER PARK RESERVE
Park Drive
UNIVERSITY OF MINNESOTA LANDSCAPE ARBORETUM
Rolling Acres Road
Kochia Lane
78th Street West
Bavaria Road
VICTORIA
Lake Minnetonka LRT Regional Trail
Arboretum Boulevard
Regional Trail Crossing (Grade Separated)
Stieger Lake Lane
Southwest Regional Trail
SALTERS PARK
Regional Trail Crossing (Grade Separated)
80th Street
CHURCH LAKE PARK
82nd Street
Church Lake
LIONS PARK
DEER RUN GOLF CLUB
Legend
Subareas
Rolling Acres Rd.
Bavaria Rd.
82nd St. West
Highway 41
Highway 5 East
Highway 5 West
Victoria Trail Gaps
Existing Regional Trails
Planned Regional Trails
Proposed City Trail
Trail
Sidewalk
Parks
Municipal Boundary
0
700
Feet
Source: Carver County, MnDNR, MnDOT

Figure 24

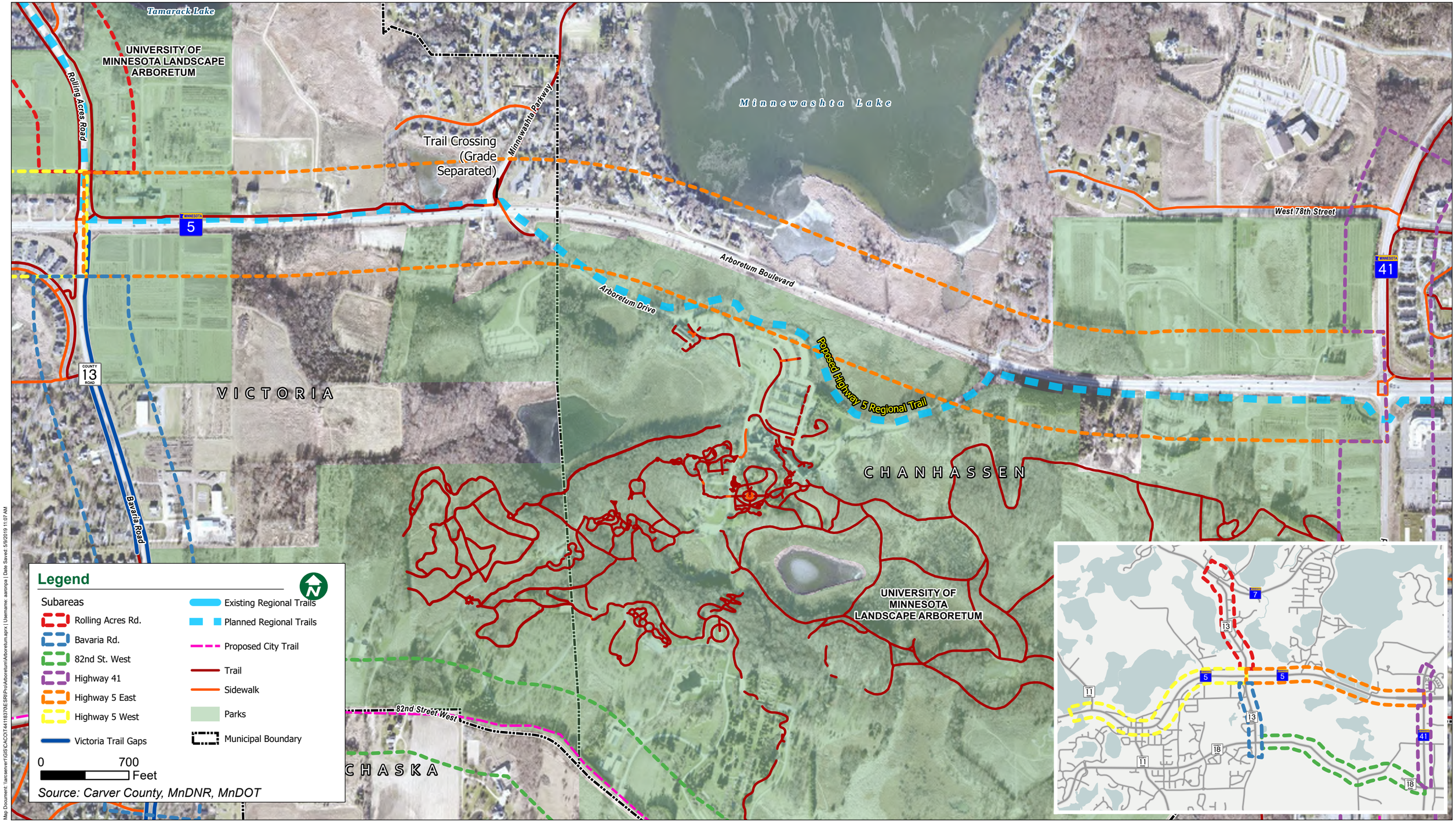

Tamarack Lake
UNIVERSITY OF MINNESOTA LANDSCAPE ARBORETUM
Rolling Acres Road
Minnewashta Parkway
Trail Crossing (Grade Separated)
Minnewashta Lake
West 78th Street
Arboretum Boulevard
Arboretum Drive
Proposed Highway 5 Regional Trail
VICTORIA
CHANHASSEN
UNIVERSITY OF MINNESOTA LANDSCAPE ARBORETUM
Bavaria Road
82nd Street West
CHASKA
Legend
Subareas
Rolling Acres Rd.
Bavaria Rd.
82nd St. West
Highway 41
Highway 5 East
Highway 5 West
Victoria Trail Gaps
Existing Regional Trails
Planned Regional Trails
Proposed City Trail
Trail
Sidewalk
Parks
Municipal Boundary
0
700
Feet
Source: Carver County, MnDNR, MnDOT

Figure 25

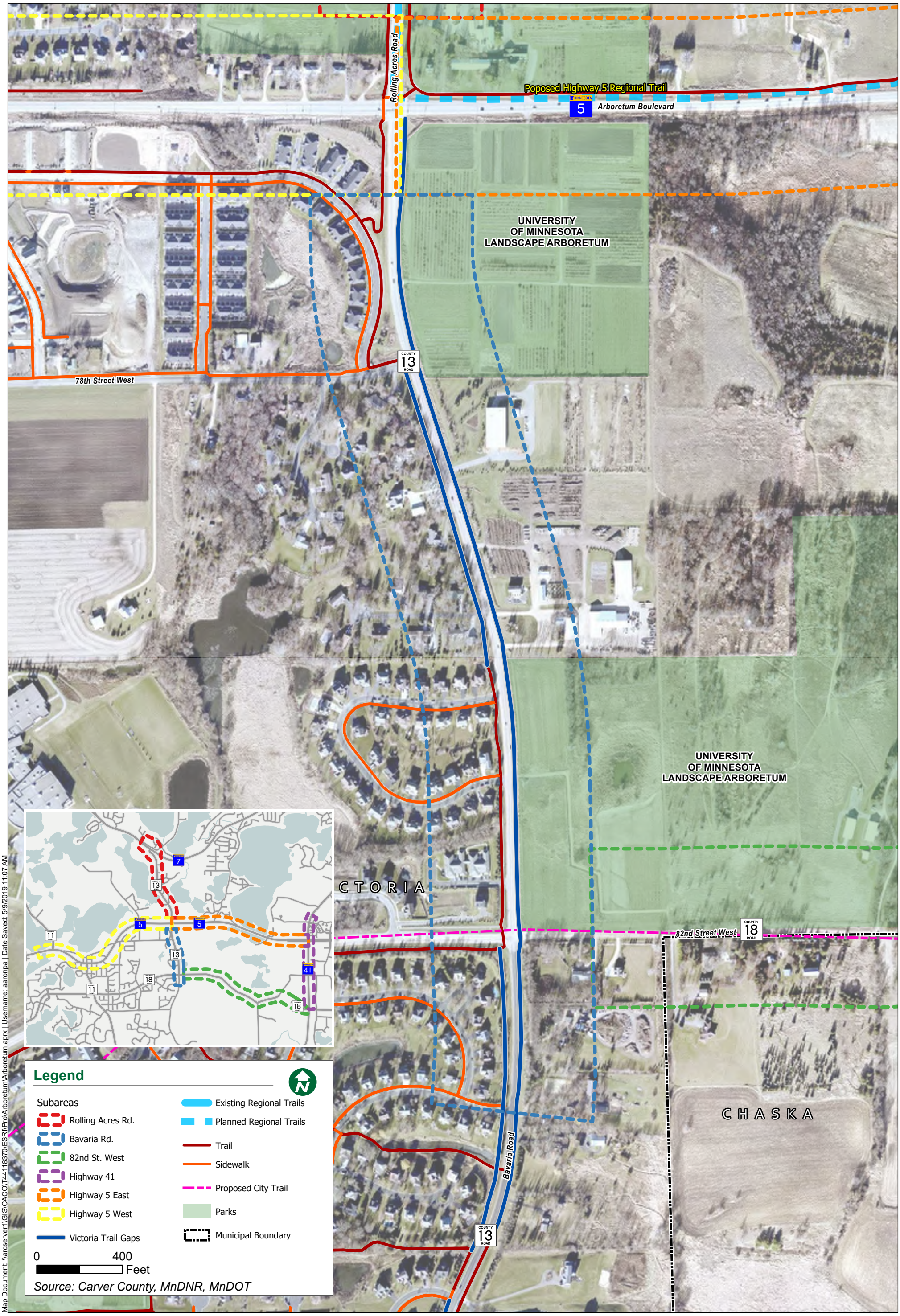


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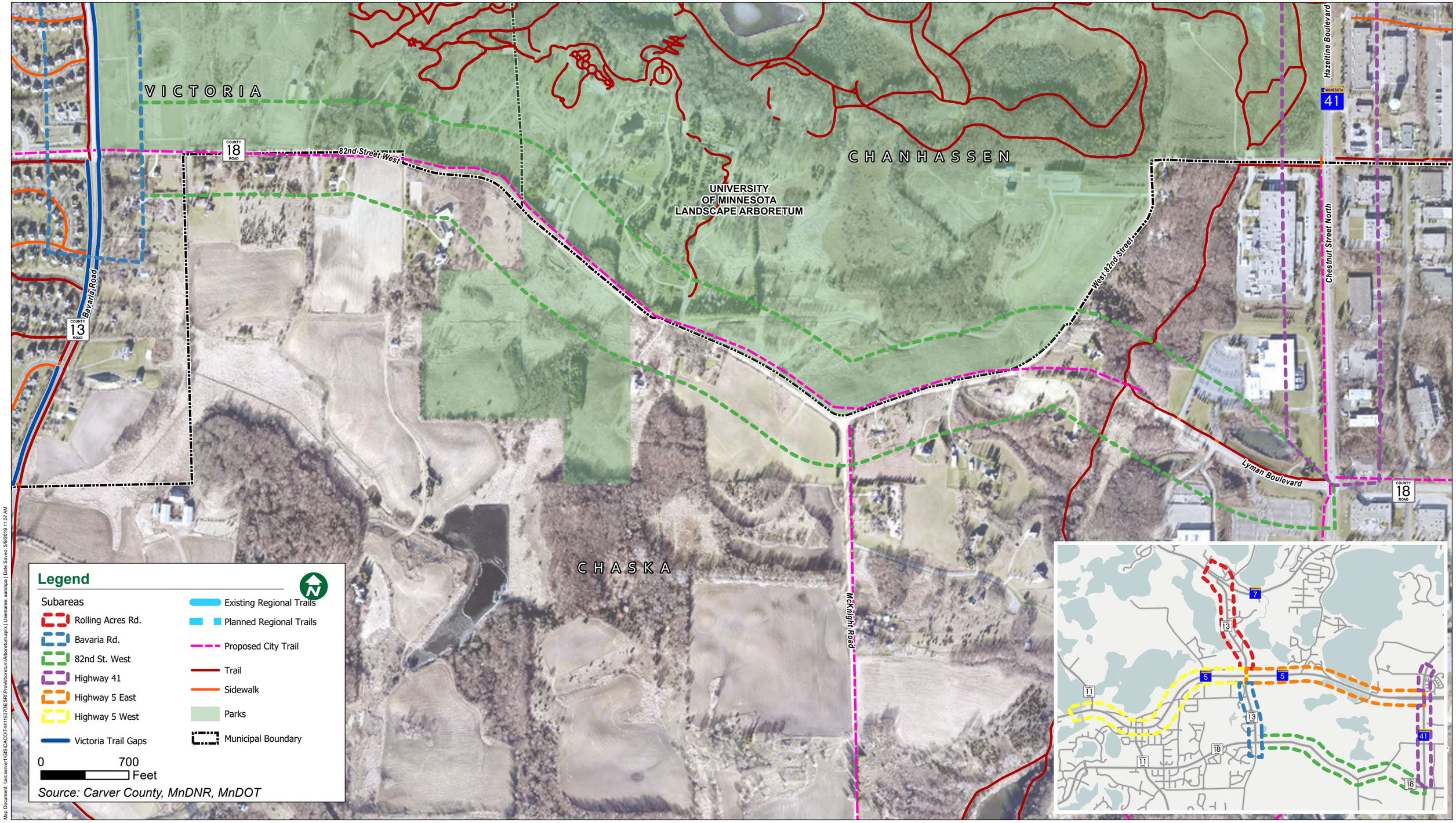
Figure 26

Map Document: \\arcserver1\GIS\CACO\T44118370\ESRI\Pro\Arboretum\Arboretum.aprx | Username: aaronpa | Date Saved: 5/9/2019 11:07 AM

Figure 27



Map Document: \\arcserver1\GIS\CACO\T44118370\ESRI\Pro\Arboretum\Arboretum.aprx | Username: aaronpa | Date Saved: 5/9/2019 11:07 AM

Figure 28

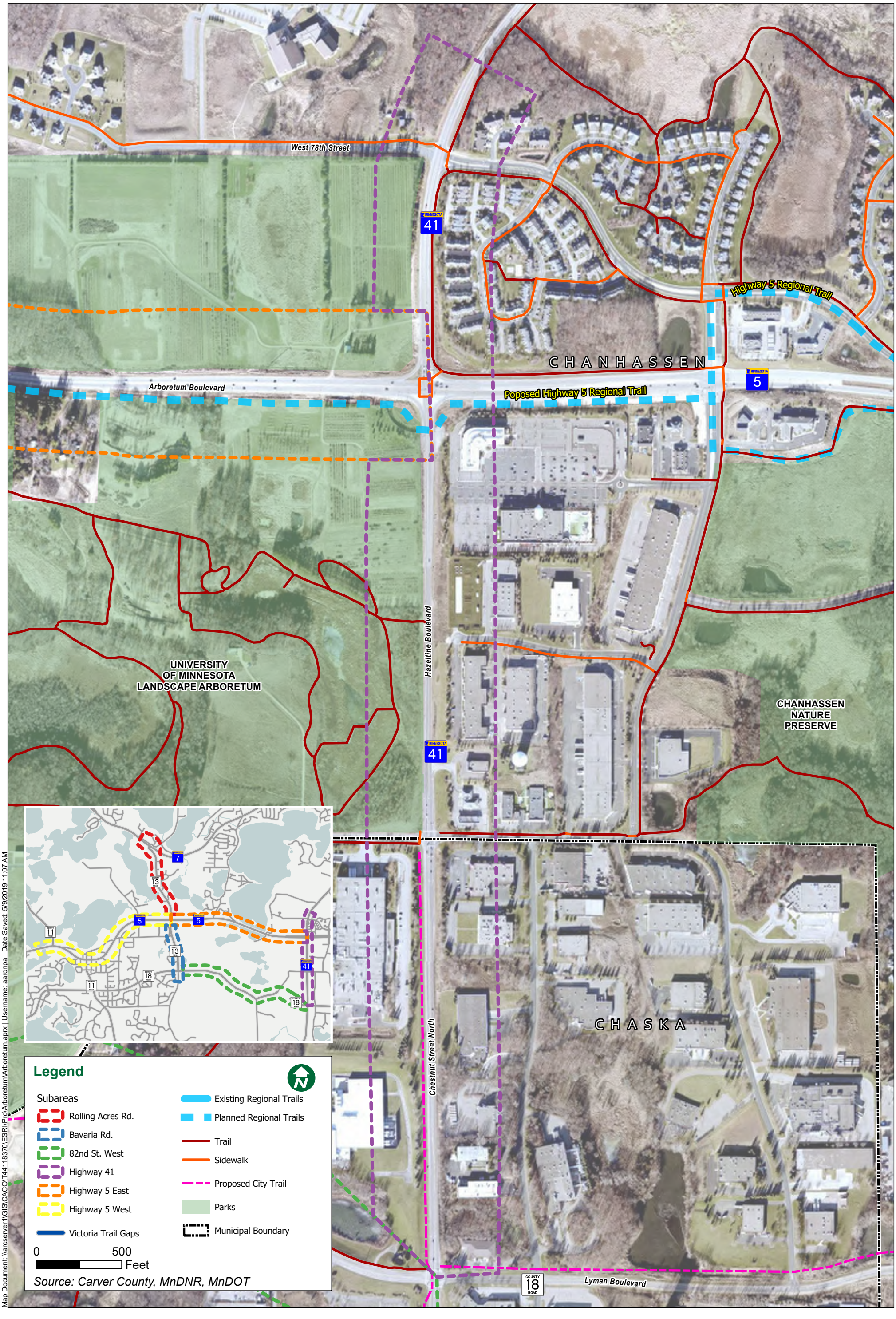

West 78th Street
41
Highway 5 Regional Trail
CHANHASSEN
5
Arboretum Boulevard
Poposed Highway 5 Regional Trail
UNIVERSITY
OF MINNESOTA
LANDSCAPE ARBORETUM
Hazeltine Boulevard
41
CHANHASSEN
NATURE
PRESERVE
CHASKA
Chestnut Street North
Lyman Boulevard
18
Legend
Subareas
Rolling Acres Rd.
Bavaria Rd.
82nd St. West
Highway 41
Highway 5 East
Highway 5 West
Victoria Trail Gaps
Existing Regional Trails
Planned Regional Trails
Trail
Sidewalk
Proposed City Trail
Parks
Municipal Boundary
0
500
Feet
Source: Carver County, MnDNR, MnDOT
Map Document: \\arcserver1\GIS\CACO\T44118370\ESRI\Pro\Arboretum\Arboretum.aprx | Username: aaronpa | Date Saved: 5/9/2019 11:07 AM

Figure 29

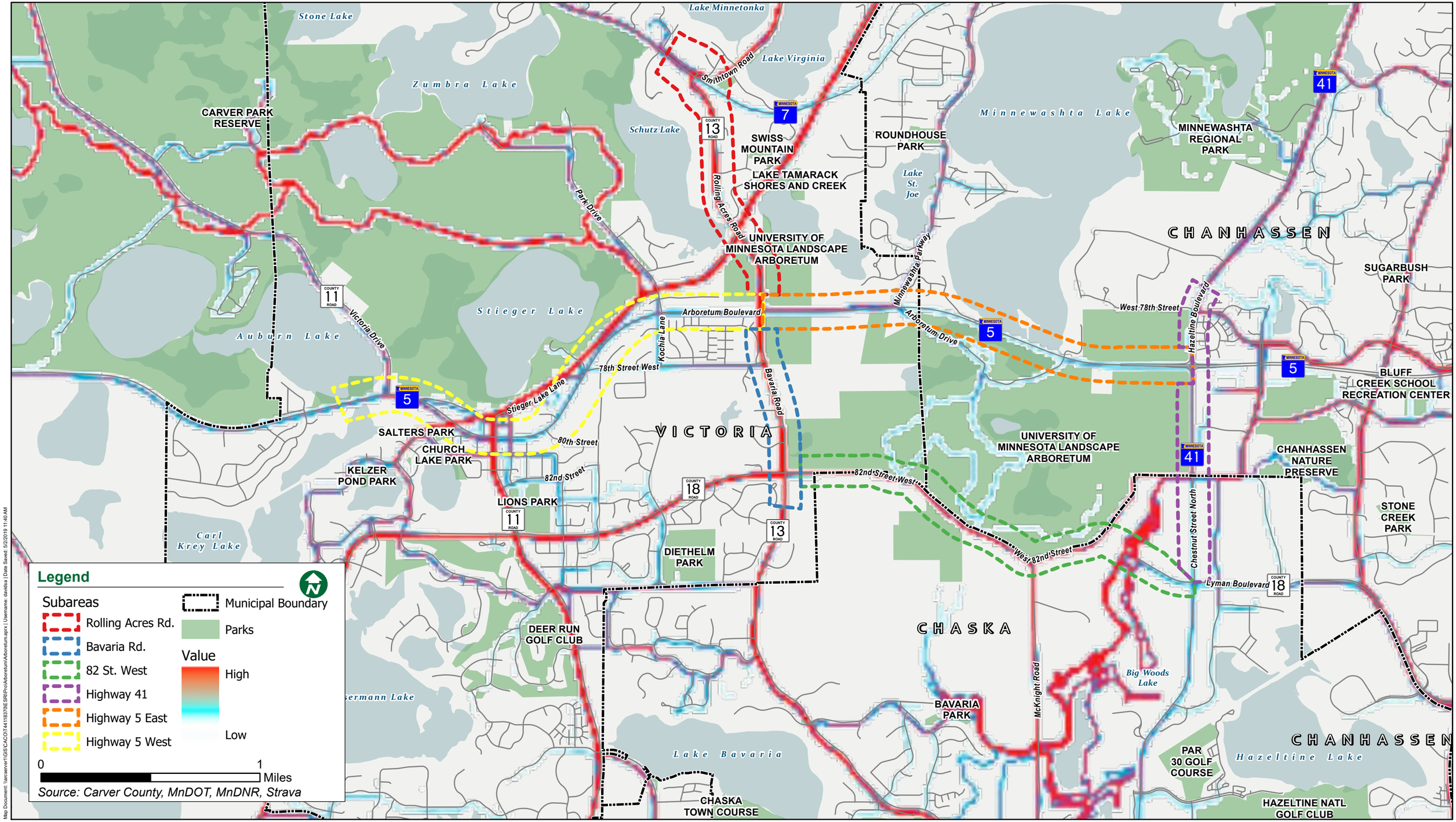

Stone Lake
Lake Minnetonka
Lake Virginia
Zumbra Lake
Schutz Lake
Minnewashta Lake
Lake St. Joe
Stieger Lake
Auburn Lake
Carl Krey Lake
Lake Bavaria
Big Woods Lake
Hazeltine Lake
CARVER PARK RESERVE
SWISS MOUNTAIN PARK
LAKE TAMARACK SHORES AND CREEK
ROUNDHOUSE PARK
MINNEWASHTA REGIONAL PARK
UNIVERSITY OF MINNESOTA LANDSCAPE ARBORETUM
CHANHASSEN
SUGARBUSH PARK
BLUFF CREEK SCHOOL RECREATION CENTER
SALTERS PARK
CHURCH LAKE PARK
KELZER POND PARK
LIONS PARK
VICTORIA
DIETHELM PARK
DEER RUN GOLF CLUB
CHASKA
BAVARIA PARK
CHASKA TOWN COURSE
PAR 30 GOLF COURSE
HAZELTINE NATL GOLF CLUB
CHANHASSEN NATURE PRESERVE
STONE CREEK PARK
Smithtown Road
Rolling Acres Road
Park Drive
Victoria Drive
Arboretum Boulevard
Kochia Lane
78th Street West
Stieger Lake Lane
80th Street
82nd Street
Bavaria Road
Minnewashta Parkway
Arboretum Drive
West 78th Street
Hazeltine Boulevard
82nd Street West
West 82nd Street
Chestnut Street North
Lyman Boulevard
McKnight Road
Legend
Subareas
Rolling Acres Rd.
Bavaria Rd.
82 St. West
Highway 41
Highway 5 East
Highway 5 West
Municipal Boundary
Parks
Value
High
Low
0
1
Miles
Source: Carver County, MnDOT, MnDNR, Strava

Figure 30

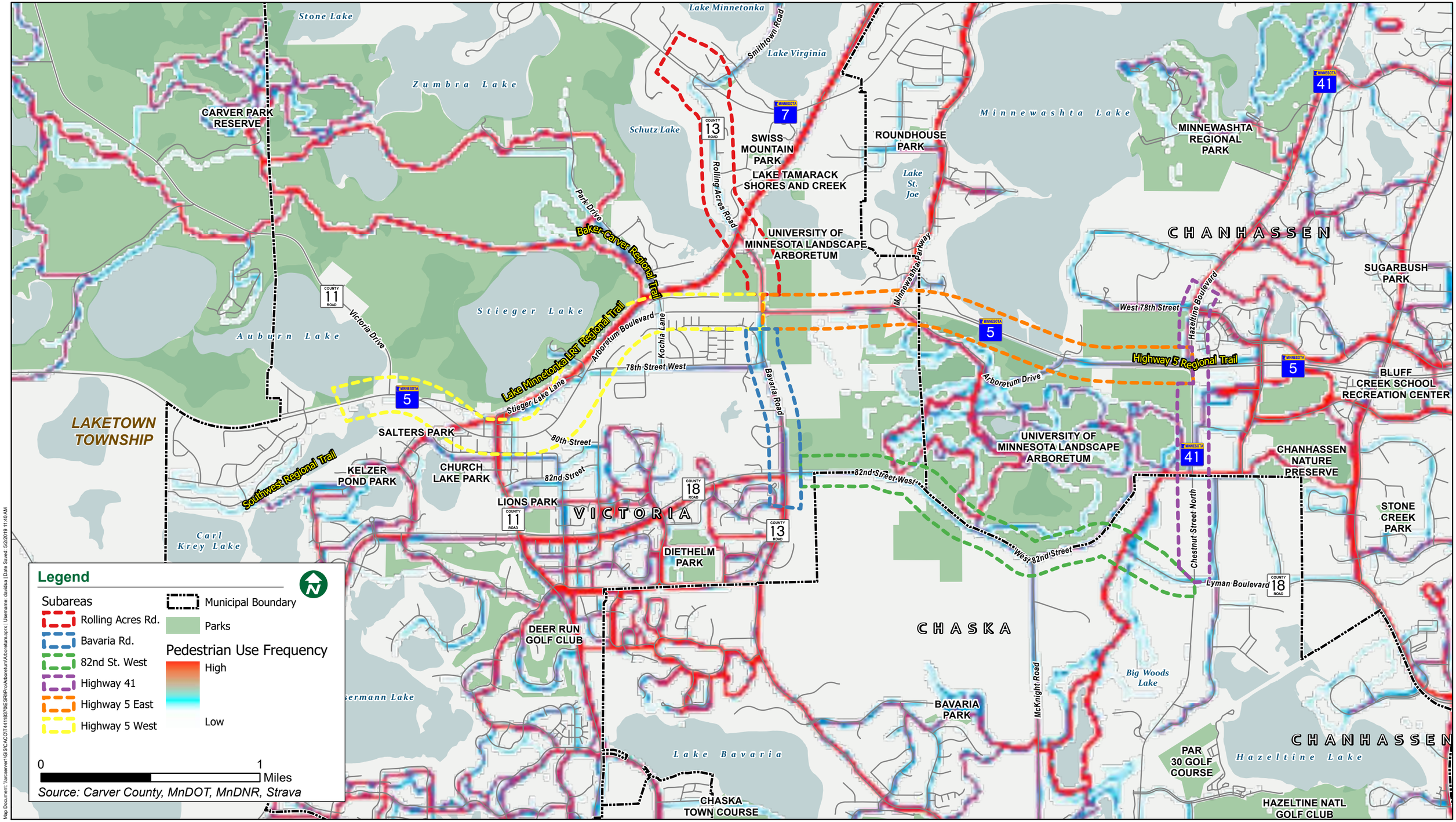

Stone Lake
Lake Minnetonka
Smithtown Road
Lake Virginia
Zumbra Lake
CARVER PARK RESERVE
Schutz Lake
SWISS MOUNTAIN PARK
LAKE TAMARACK SHORES AND CREEK
ROUNDHOUSE PARK
Lake St. Joe
Minnewashta Lake
MINNEWASHTA REGIONAL PARK
Rolling Acres Road
Park Drive
Baker-Carver Regional Trail
UNIVERSITY OF MINNESOTA LANDSCAPE ARBORETUM
Minnewashta Parkway
CHANHASSEN
SUGARBUSH PARK
Stieger Lake
Auburn Lake
Victoria Drive
Arboretum Boulevard
Kochia Lane
Lake Minnetonka LRT Regional Trail
78th Street West
Stieger Lake Lane
Bavaria Road
West 78th Street
Hazeline Boulevard
Highway 5 Regional Trail
Arboretum Drive
BLUFF CREEK SCHOOL RECREATION CENTER
LAKETOWN TOWNSHIP
SALTERS PARK
80th Street
Southwest Regional Trail
KELZER POND PARK
CHURCH LAKE PARK
82nd Street
LIONS PARK
VICTORIA
82nd Street West
CHANHASSEN NATURE PRESERVE
STONE CREEK PARK
Carl Krey Lake
DIETHELM PARK
West 82nd Street
Chestnut Street North
Lyman Boulevard
DEER RUN GOLF CLUB
CHASKA
McKnight Road
Big Woods Lake
BAVARIA PARK
Lake Bavaria
PAR 30 GOLF COURSE
Hazeltine Lake
CHASKA TOWN COURSE
HAZELTINE NATL GOLF CLUB
Legend
Subareas
Rolling Acres Rd.
Bavaria Rd.
82nd St. West
Highway 41
Highway 5 East
Highway 5 West
Municipal Boundary
Parks
Pedestrian Use Frequency
High
Low
0
1
Miles
Source: Carver County, MnDOT, MnDNR, Strava

Figure 31

H:\Projects\12000\12083\TraffStudy\Reports\Memorandums\Operations\Figures\Figure 03_AM Operations.cdr

SRF Consulting Group, Inc.

AM Peak Hour Operations

Arboretum Area Transportation Plan

Carver County

01912083
May 2019

Figure 3

Figure 32

H:\Projects\12000\12083\TraffStudy\Reports\Memorandums\Operations\Figures\Figure 04_PM Operations.cdr

SRF Consulting Group, Inc.

AM Peak Hour Operations

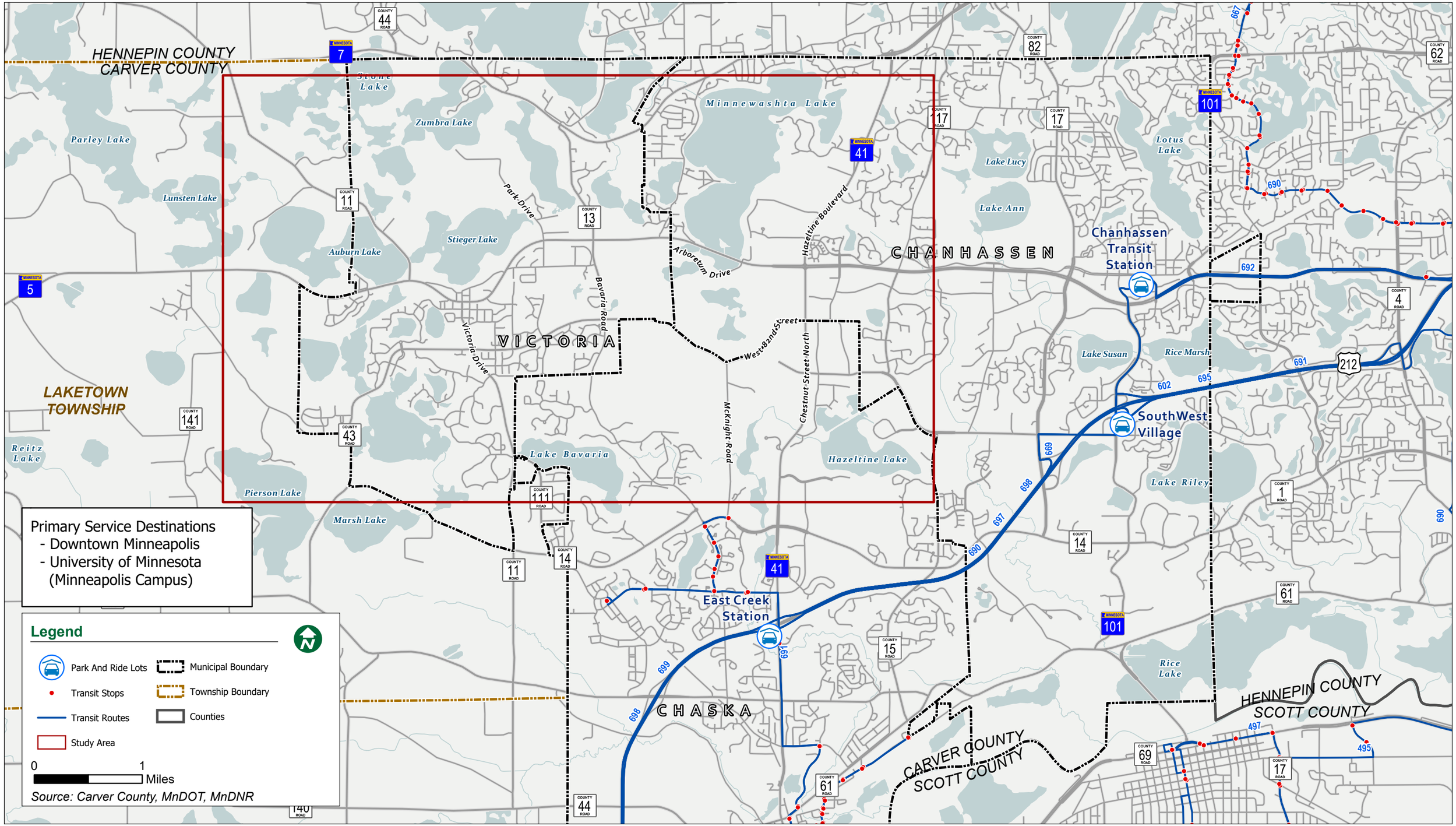
Arboretum Area Transportation Plan

Carver County

01912083
May 2019

Figure 4

Figure 33


HENNEPIN COUNTY
CARVER COUNTY
LAKETOWN TOWNSHIP
VICTORIA
CHANHASSEN
CHASKA
HENNEPIN COUNTY
SCOTT COUNTY
CARVER COUNTY
SCOTT COUNTY
Stone Lake
Zumbra Lake
Minnewashta Lake
Parley Lake
Lunsten Lake
Auburn Lake
Stieger Lake
Lake Lucy
Lake Ann
Lotus Lake
Lake Susan
Rice Marsh
Lake Riley
Rice Lake
Hazeltine Lake
Lake Bavaria
Pierson Lake
Marsh Lake
Reitz Lake
Park Drive
Bavaria Road
Victoria Drive
Arboretum Drive
Hazeltine Boulevard
West 82nd Street
Chestnut Street North
McKnight Road
Chanhassen Transit Station
SouthWest Village
East Creek Station
Primary Service Destinations
- Downtown Minneapolis
- University of Minnesota (Minneapolis Campus)
Legend
Park And Ride Lots
Transit Stops
Transit Routes
Study Area
Municipal Boundary
Township Boundary
Counties
0
1
Miles
Source: Carver County, MnDOT, MnDNR