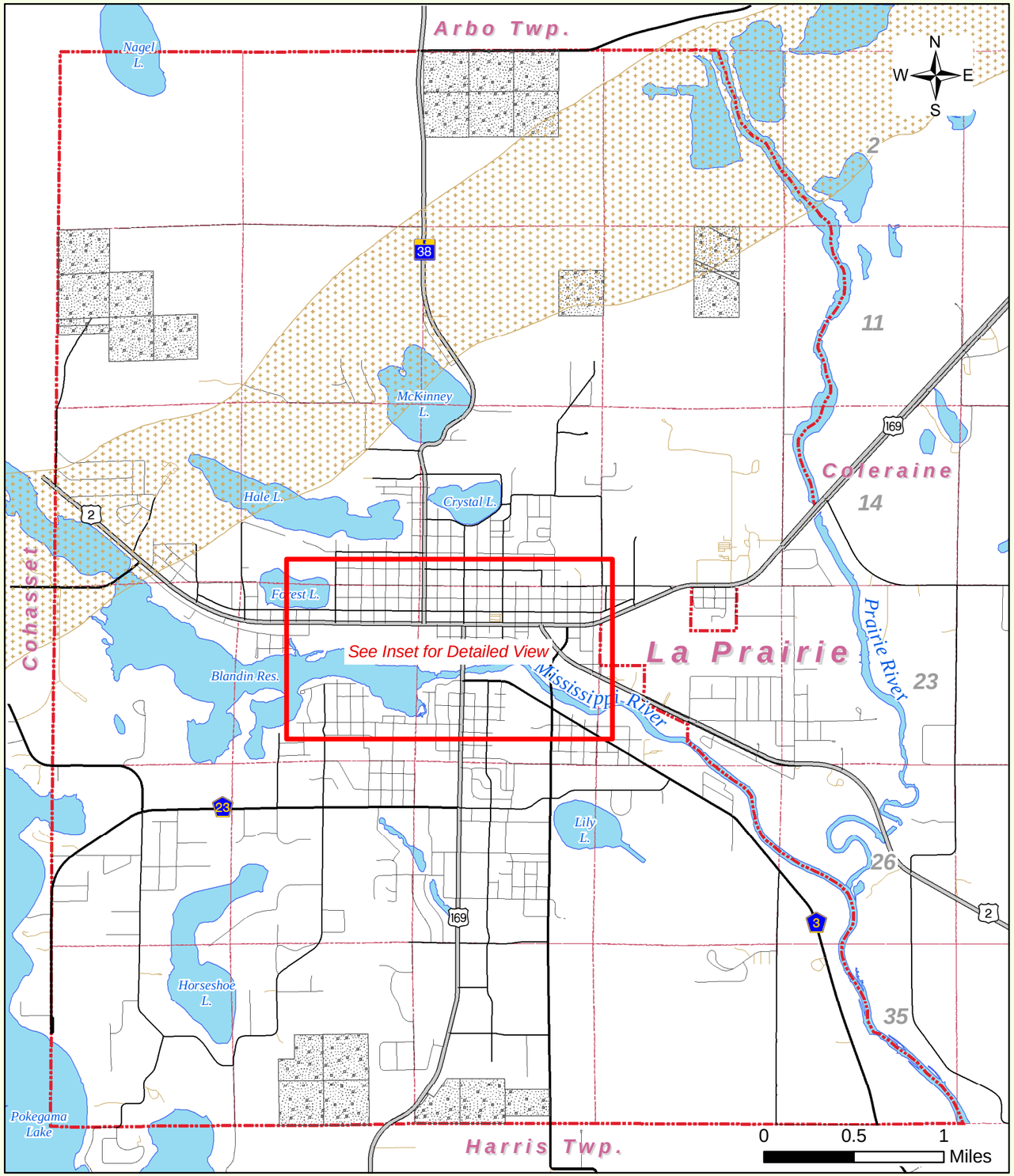
Grand Rapids Comprehensive Plan

Natural Infrastructure

Mineral Resources



Iron Formation

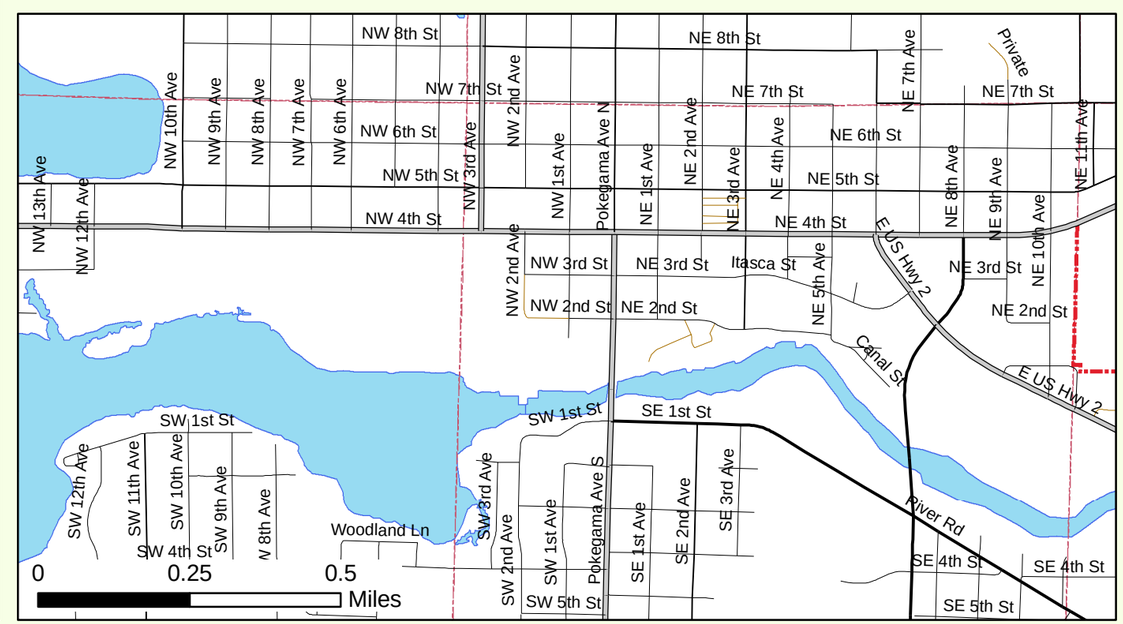
Aggregate Resources

Open Water

City Limits 2010

Sections

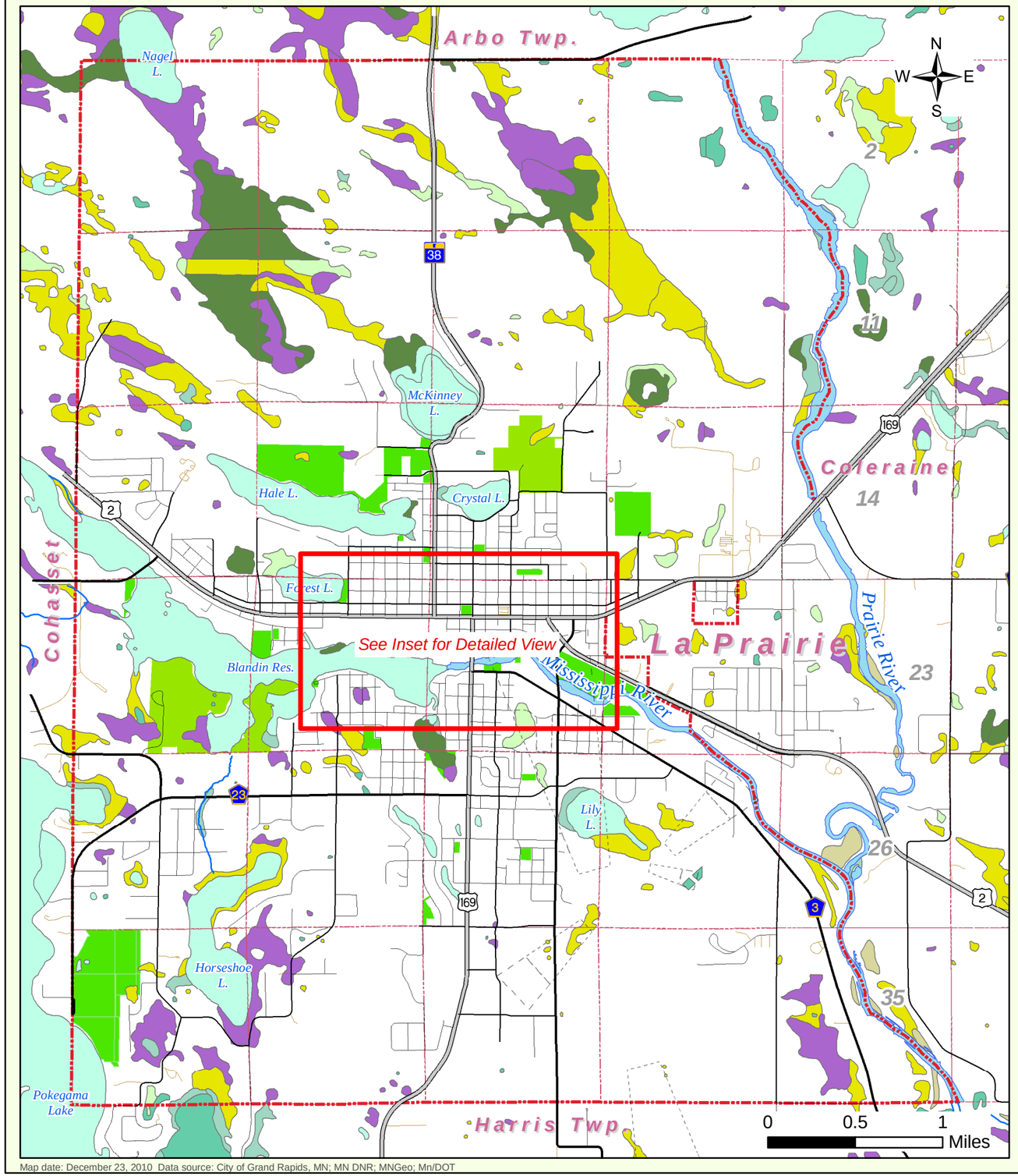
24 Section Numbers



Map date: July 10, 2010 Data source: City of Grand Rapids, MN; MN DNR; MNGeo; Mn/DOT

Grand Rapids Comprehensive Plan

National Wetlands Inventory



Map date: December 23, 2010 Data source: City of Grand Rapids, MN; MN DNR; MNGeo; Mn/DOT

Legend

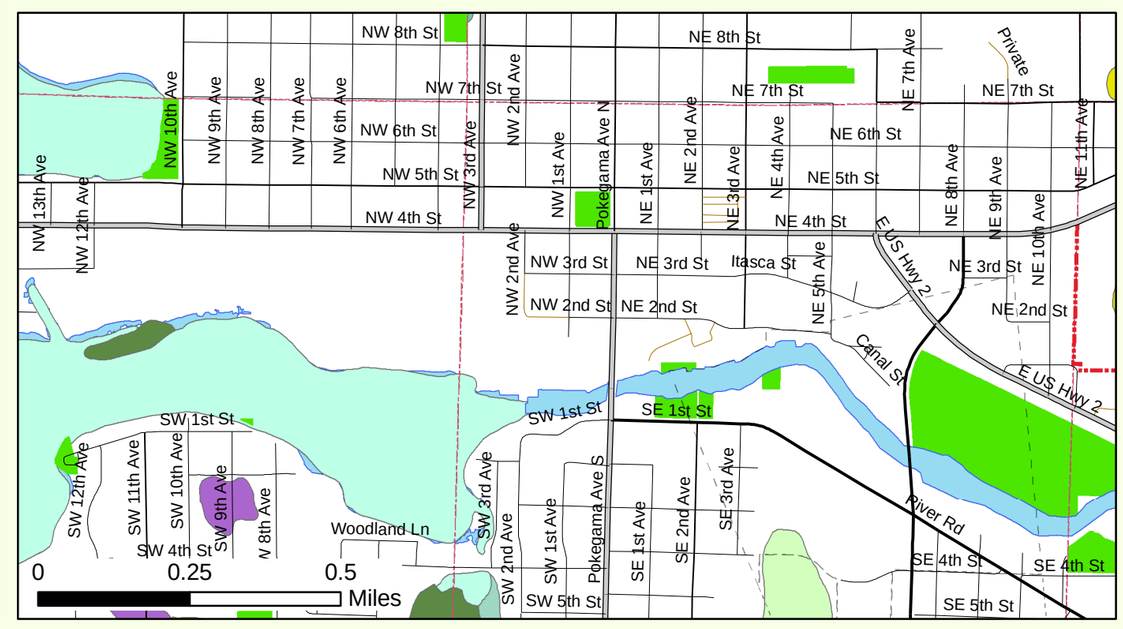
NWI Wetlands

- Seasonally Flooded
- Wet Meadow
- Shallow Marsh
- Deep Marsh
- Shallow Open Water
- Shrub Swamp
- Wooded Swamp
- Bog
- Municipal/Industrial Activity

- City Limits 2010
- Open Water
- City Parks
- Other Parks

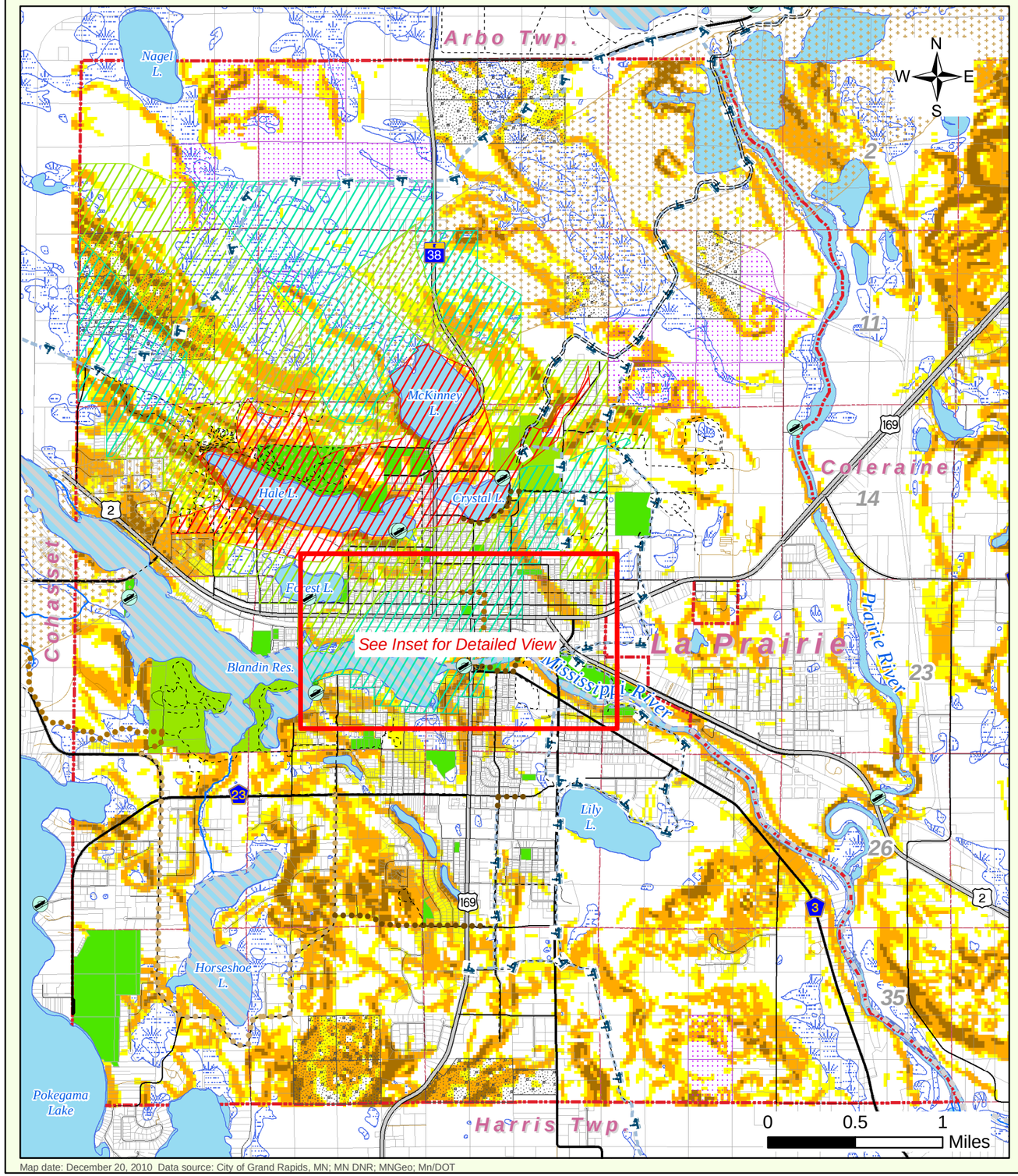
Airport Zones

- A
- B
- Sections
- 24 Section Numbers



Grand Rapids Comprehensive Plan

Natural Infrastructure



Map date: December 20, 2010 Data source: City of Grand Rapids, MN; MN DNR; MNGeo; Mn/DOT

Legend

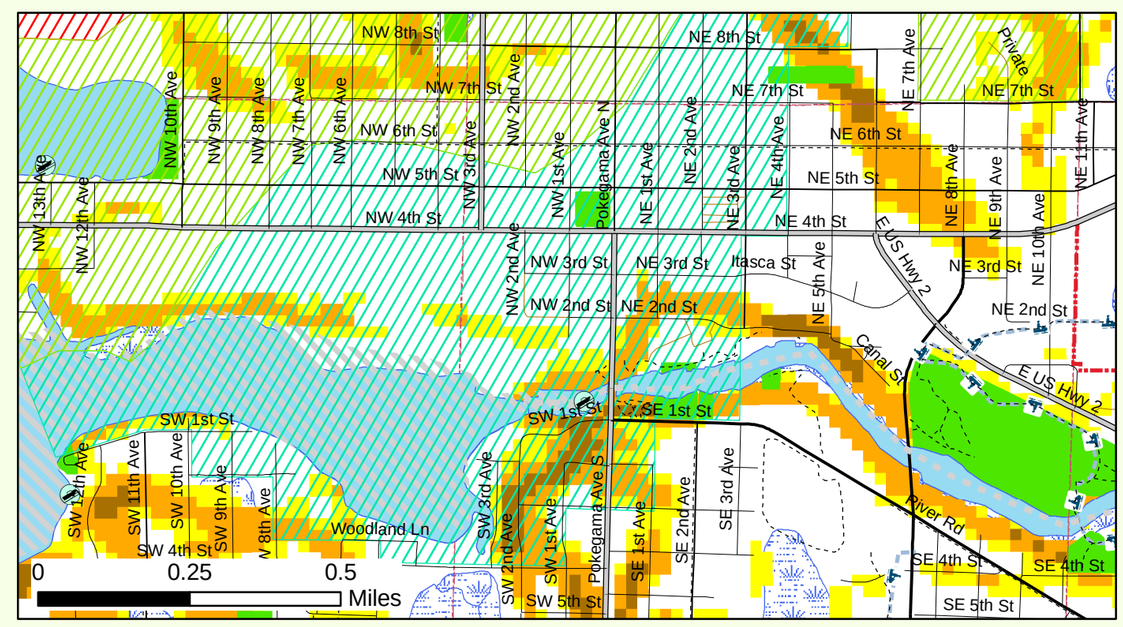
Impaired Waters
- Impaired Lakes
- Impaired River or Stream
- Iron Formation
- Aggregate Resources
- Lake
- NWI Wetlands

Drinking Water Supply Contamination Risk
- High Vulnerability
- Moderate Vulnerability
- Low Vulnerability

24 Section Numbers

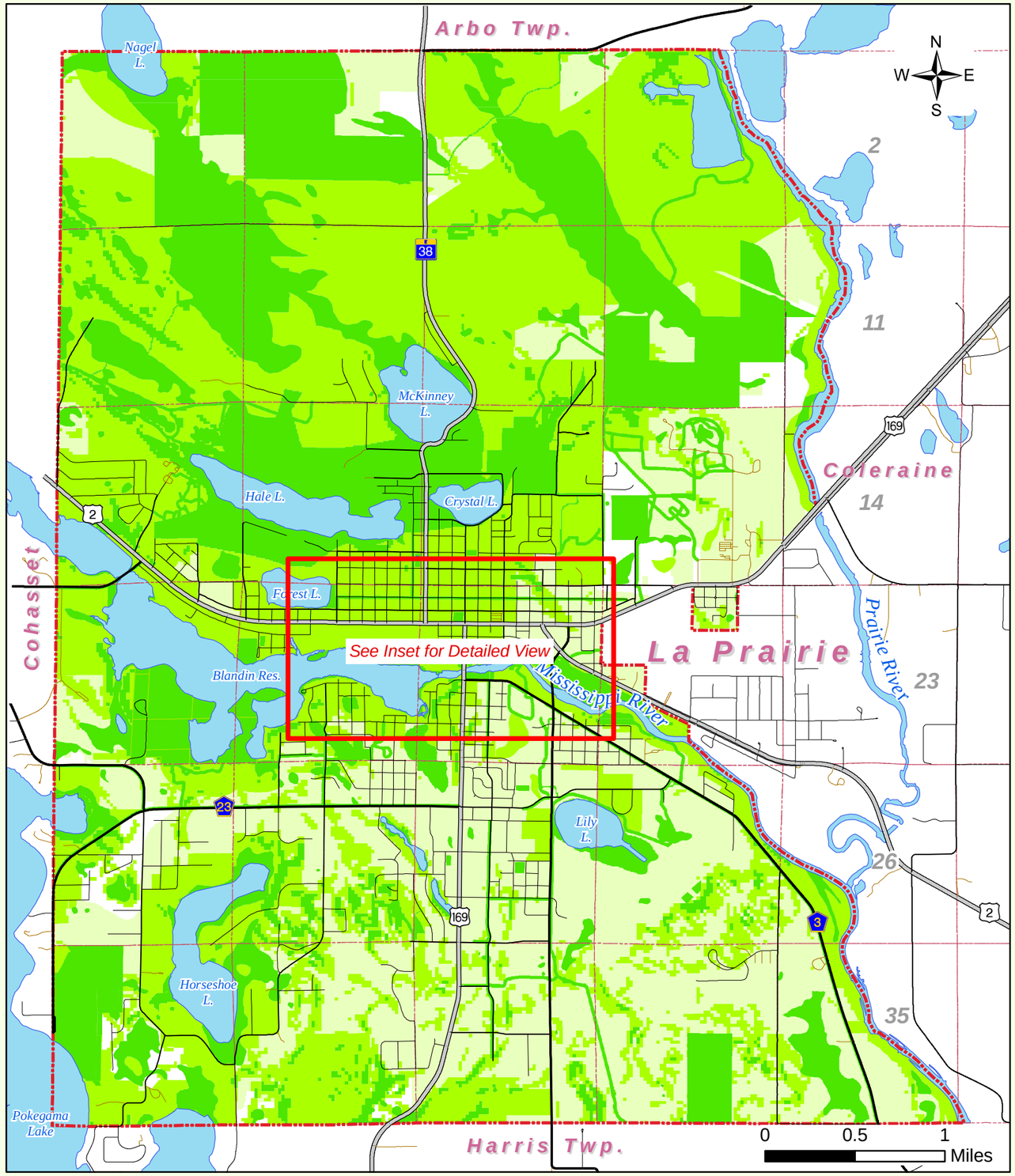
Slope
- 12 - 18%
- 18 - 36%
- > 36%

Public Trails
- Mesabi Trail
- Other Trail
- DNR Snowmobile Trails
- City Parks
- Other Parks
- Conservation Easements
- City Limits 2010
- Sections



Grand Rapids Comprehensive Plan

Natural Infrastructure Constraints



Legend

Highly Constrained for Development

Constraints: Public waters, Impaired waters, High drinking water supply vulnerability, Slopes greater than 36%, Parks, Trails, Conservation Easements, Bog, Shrub swamp, Wooded swamp, Deep marsh, Shallow open water

Moderately Constrained for Development

Constraints: Upland in areas zoned shoreland, Moderate and Low drinking water supply vulnerability, Slopes 18-36%, Iron formation, Aggregate resources, Shallow marsh, Wet meadow, Seasonally flooded

Natural Resource Considerations for Development

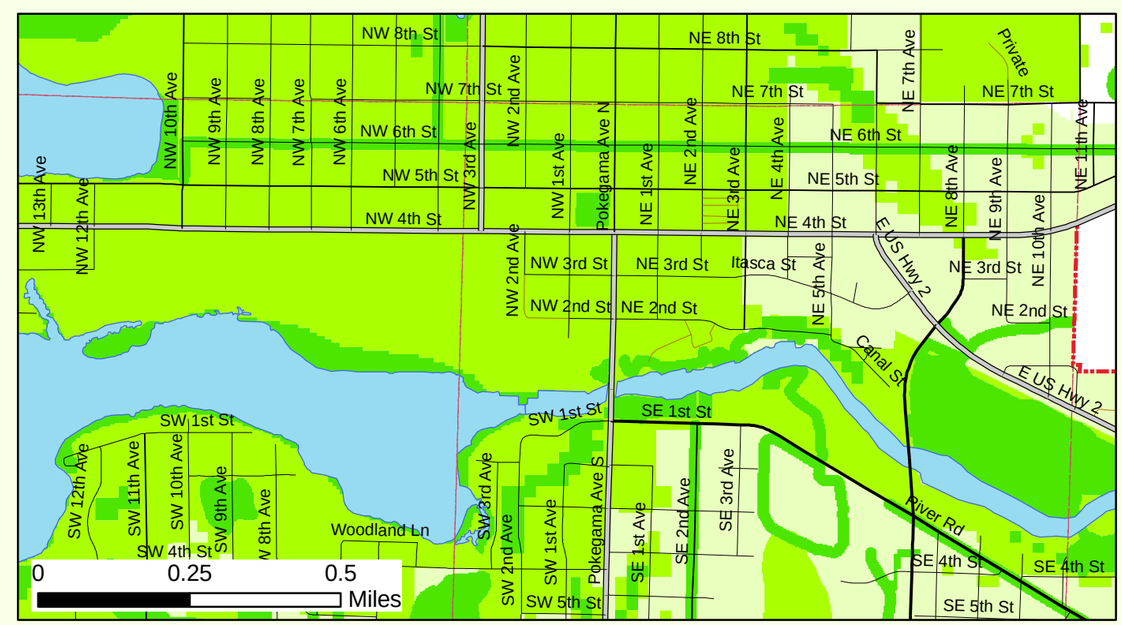
Considerations: Minor watersheds of impaired waters, Forestry land, Public or Institutional lands other than parks

Open Water

City Limits 2010

Sections

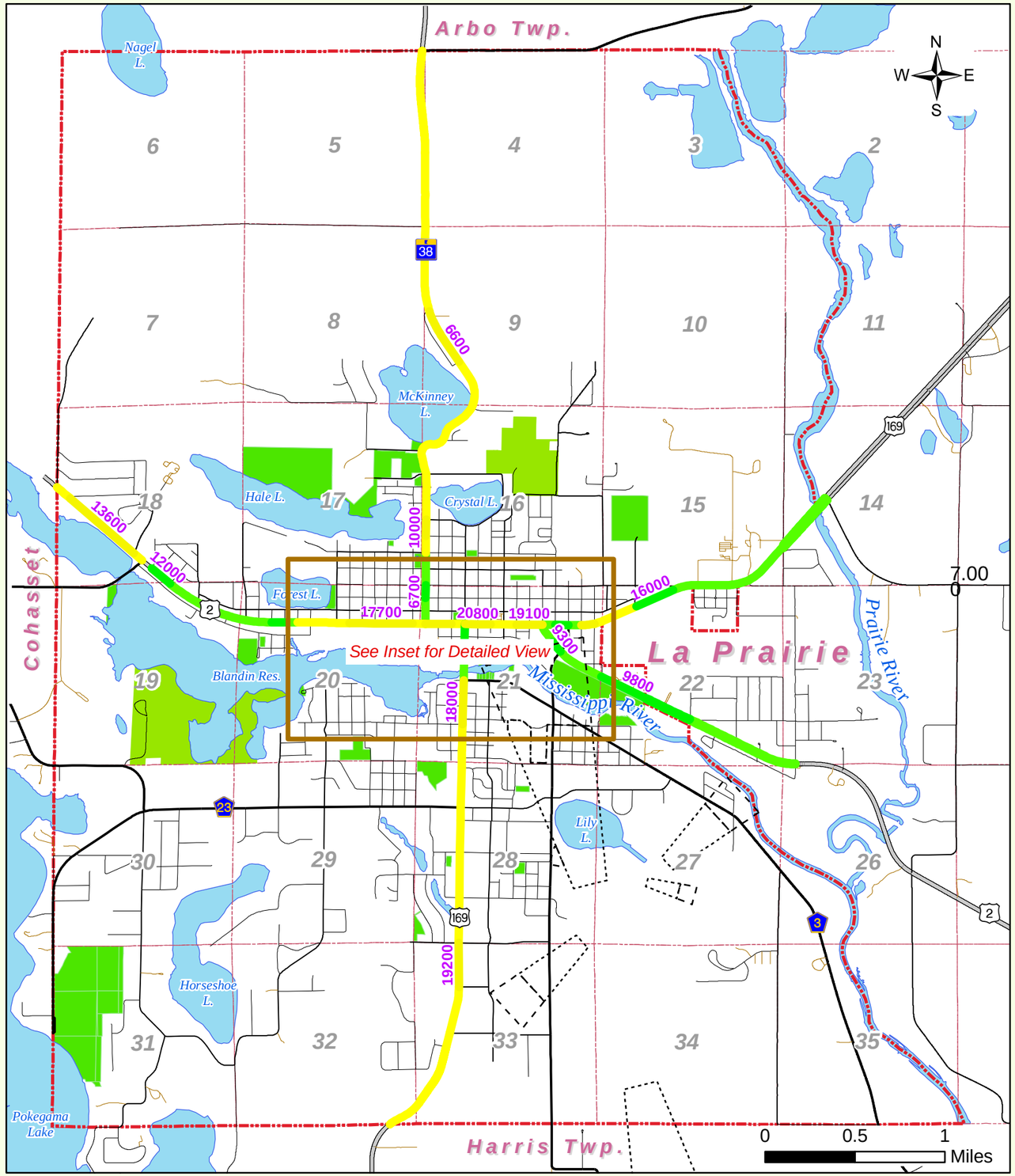
24 Section Numbers



Map date: December 20, 2010 Data source: City of Grand Rapids, MN; MN DNR; MNGeo; Mn/DOT; CR Planning

Grand Rapids Comprehensive Plan

Volume to Capacity Ratio (2006)



Legend

Volume:Capacity 2006

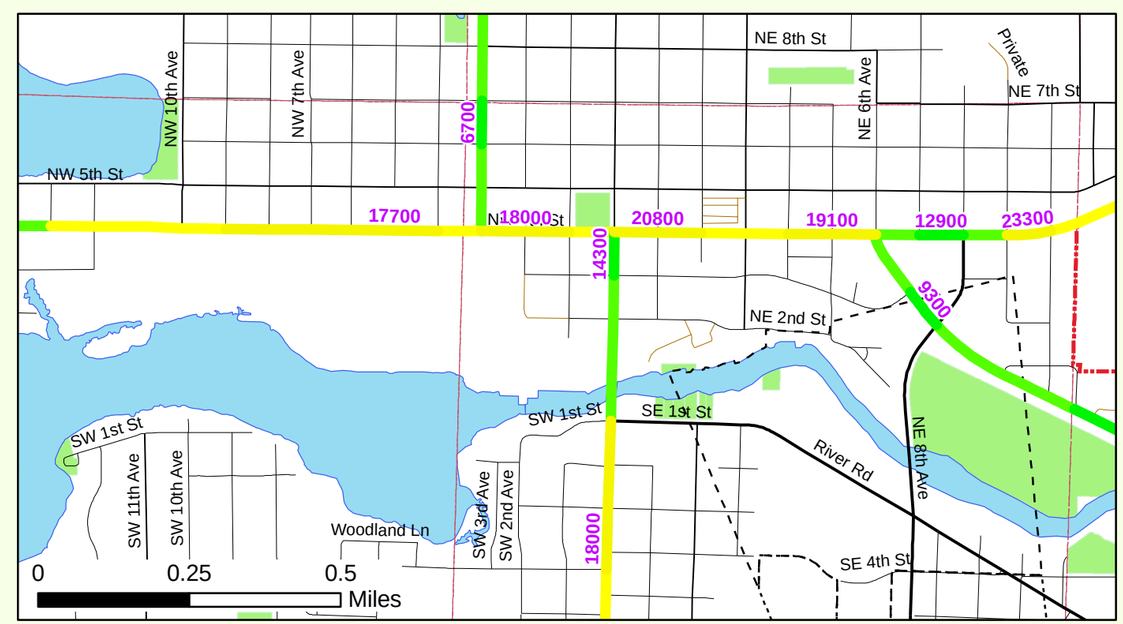
- Over 75%
- 50 - 75%
- 28 - 49%
- 1000 AADT of segment

- City Limits 2010
- Open Water
- Public Parks
- Other Parks
- Sections
- 2 4 Section Numbers

Airport Zones

- A
- B

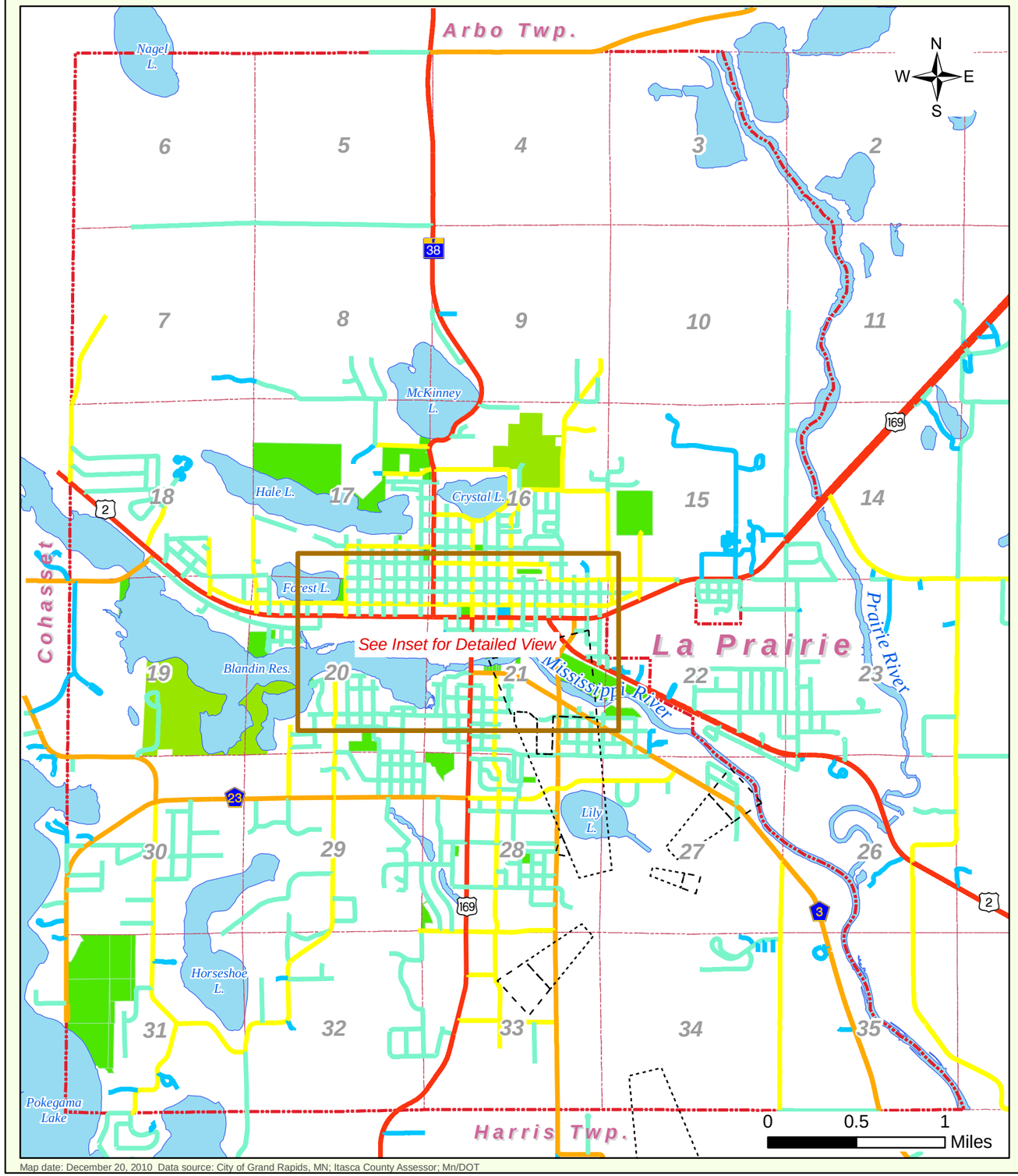
Note: Volume to Capacity of US 169 from 1st Street to 10th Street assumes roadway widening in 2012 per City CIP.



Map date: March 10, 2011. Data source: City of Grand Rapids, MN; Mn/DOT

Grand Rapids Comprehensive Plan

Functional Class Roads

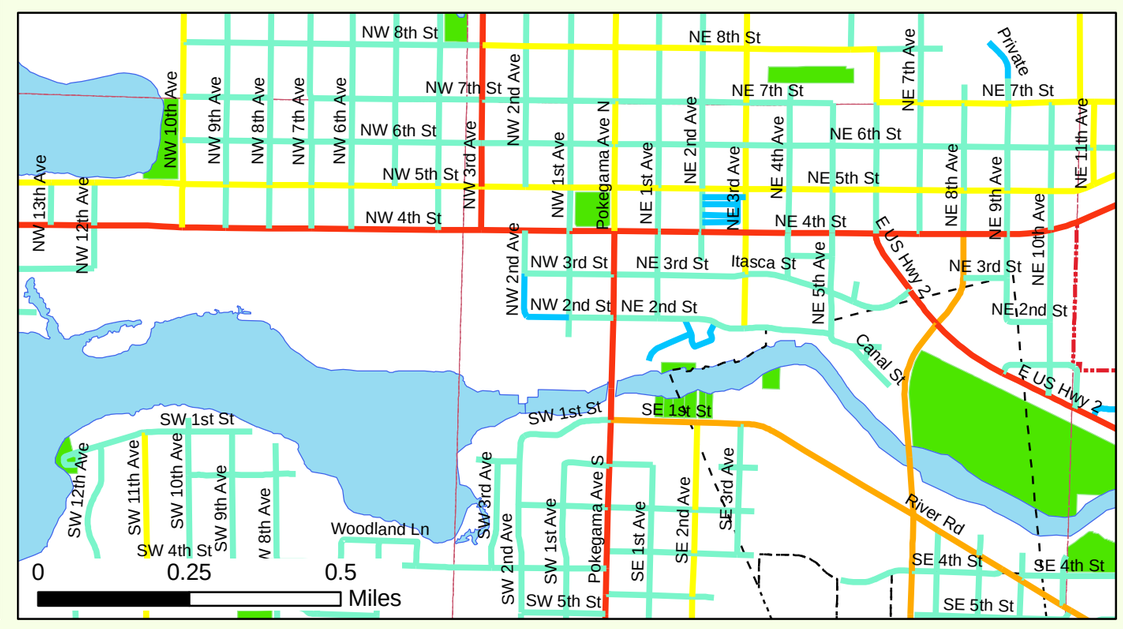


Legend

Streets
- Arterial
- Major
- Minor
- Local
- Private

- City Limits 2010
- Open Water
- Public Parks
- Other Parks
- Sections
- 2 4 Section Numbers

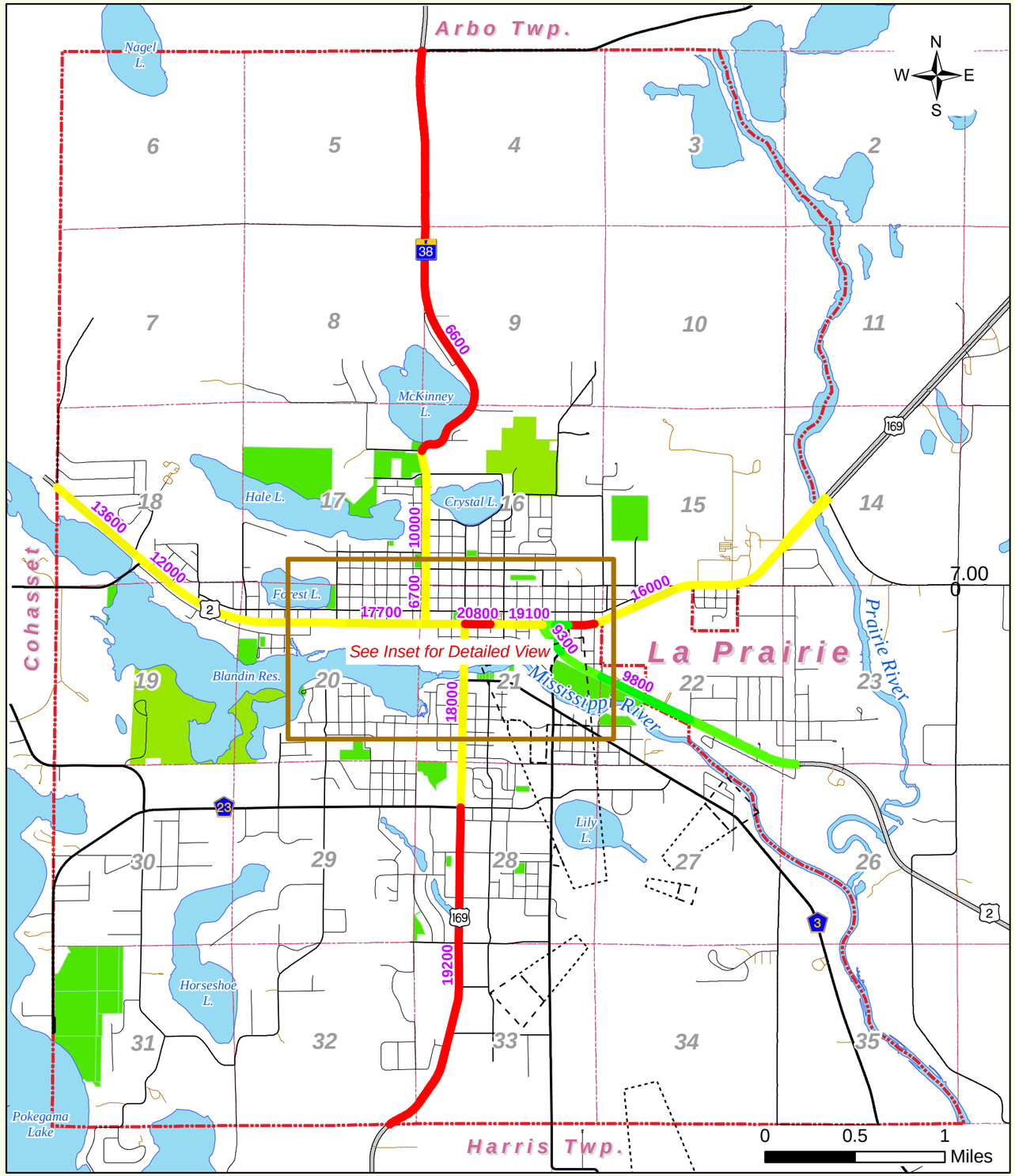
Airport Zones
- A
- B



Map date: December 20, 2010 Data source: City of Grand Rapids, MN; Itasca County Assessor; Mn/DOT

Grand Rapids Comprehensive Plan

Volume to Capacity Ratio (2030)



Legend

Volume:Capacity 2030

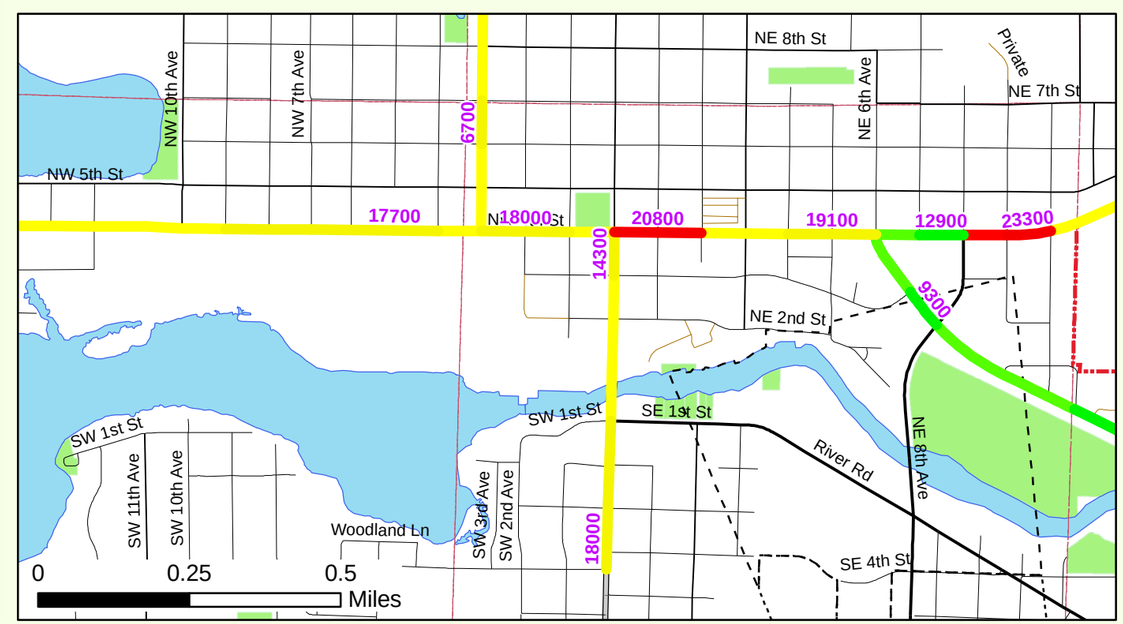
- Over 75%
- 50 - 75%
- 34 - 49%
- 1000 AADT of segment

- City Limits 2010
- Open Water
- Public Parks
- Other Parks
- Sections
- 2 4 Section Numbers

Airport Zones

- A
- B

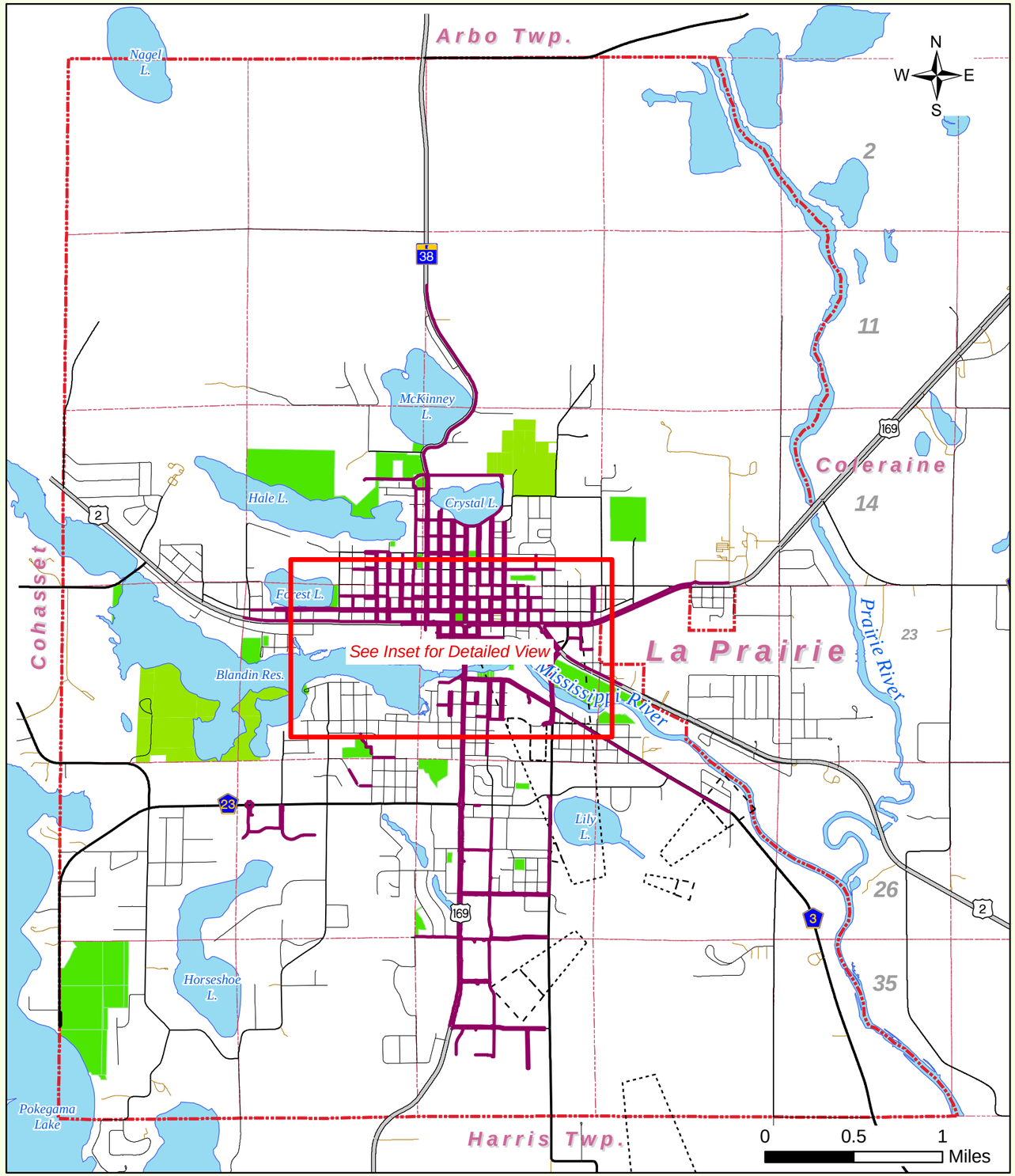
Note: Volume to Capacity of US 169 from 1st Street to 10th Street assumes roadway widening in 2012 per City CIP.



Map date: December 23, 2010 Data source: City of Grand Rapids, MN; Mn/DOT

Grand Rapids Comprehensive Plan

Sidewalks

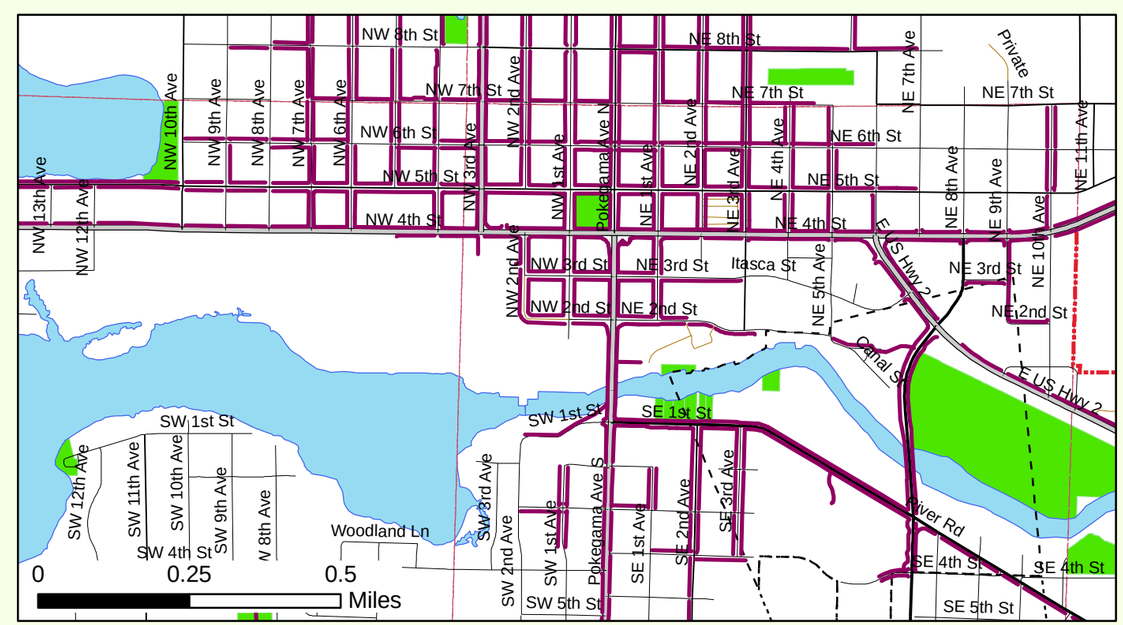


Legend

- Sidewalks
- City Limits 2010
- Open Water
- City Parks
- Other Parks
- Sections
- 2 4 Section Numbers

Airport Zones

- A
- B

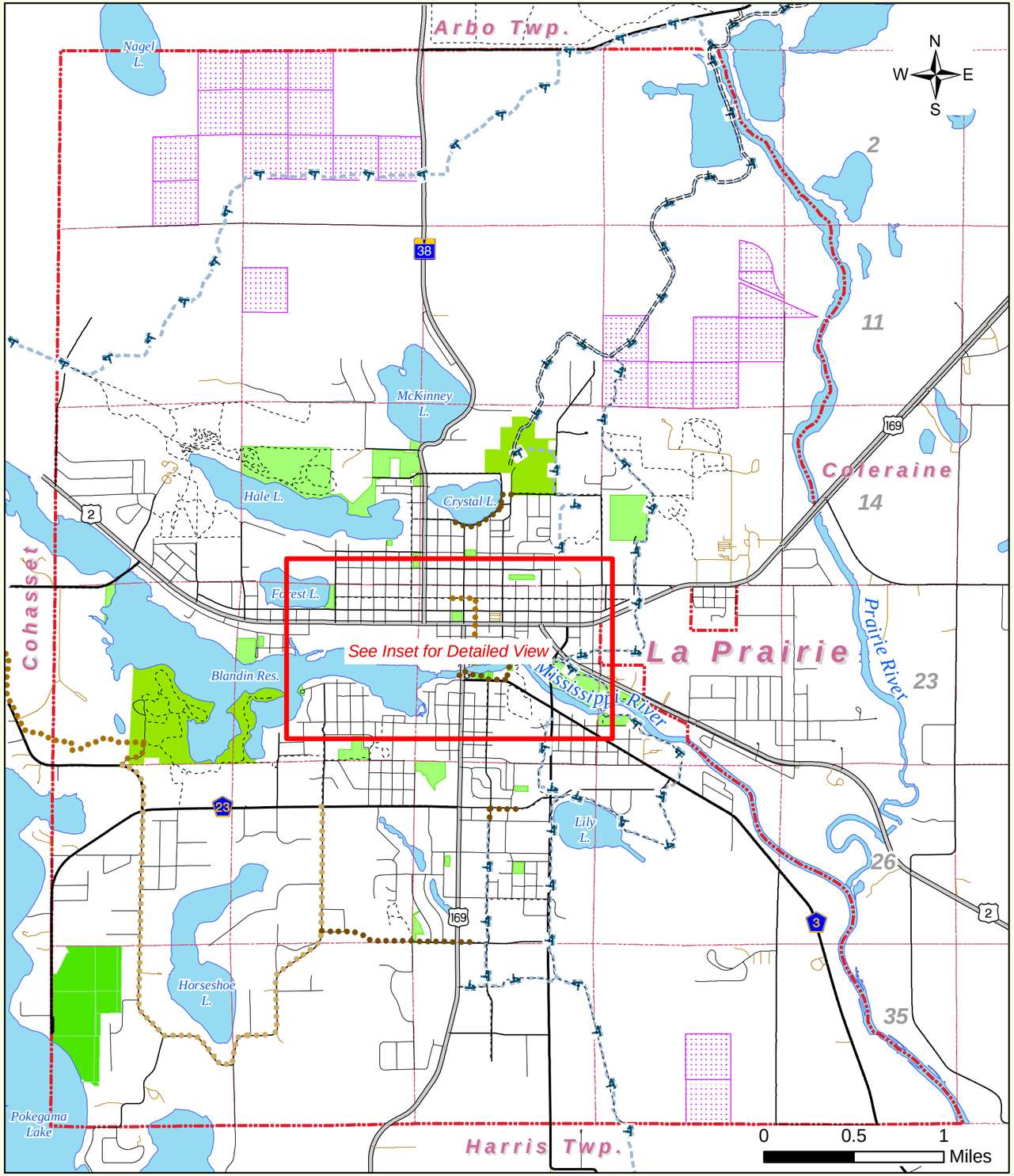


Map date: February 21, 2011 Data sources: City of Grand Rapids, MN; Mn/DOT

Grand Rapids Comprehensive Plan

Natural Infrastructure

Parks and Trails



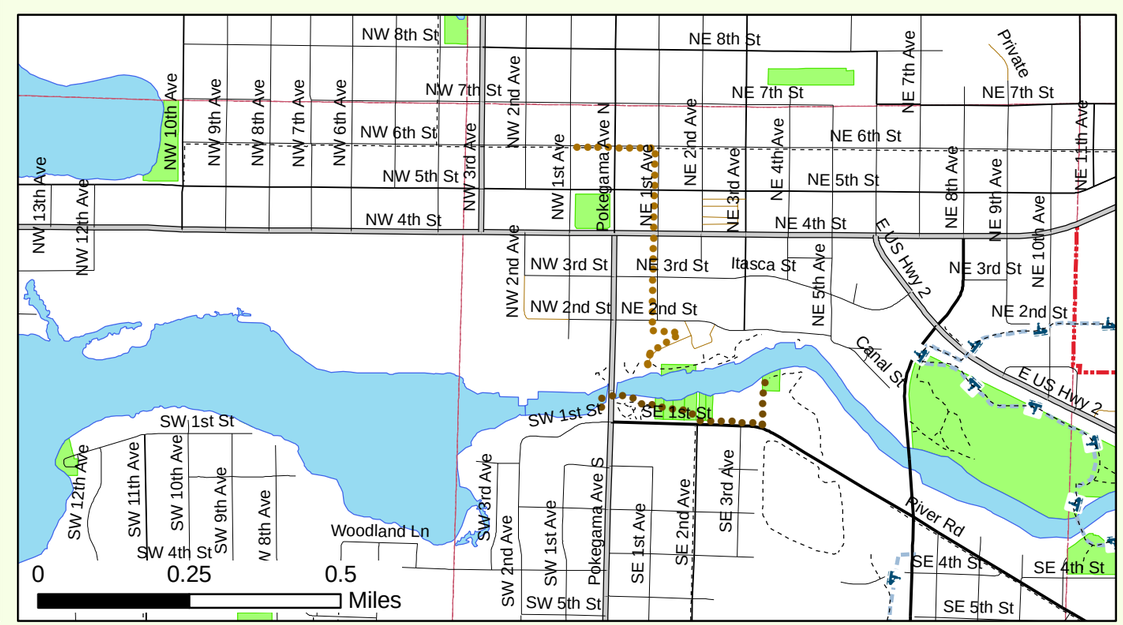
Public Trails

- Mesabi Trail
- Other Trail
- DNR Snowmobile Trails

Proposed Trail Construction

- 0-5 Years
- 5-10 Years
- 10-20 Years

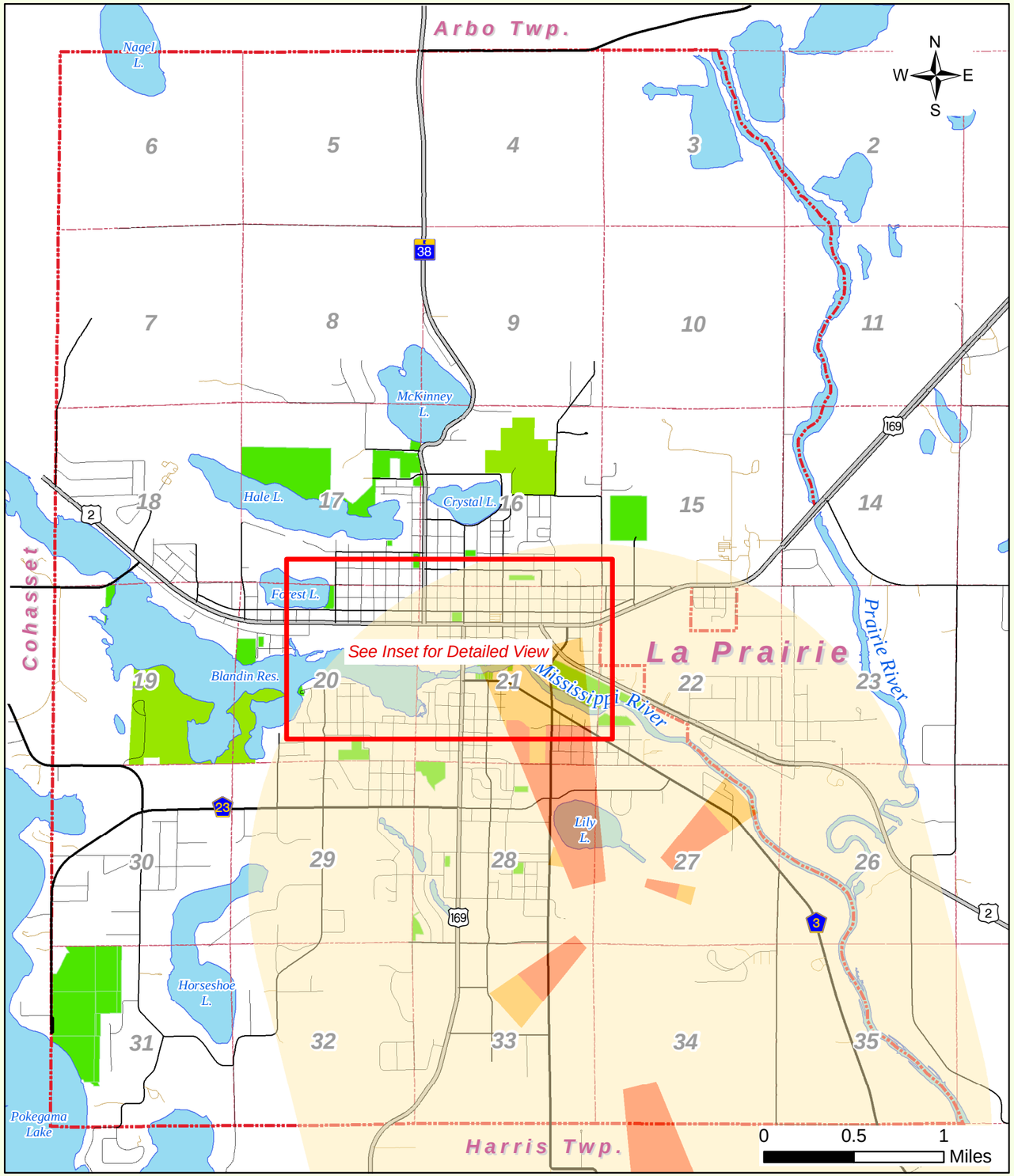
- City Parks
- Other Parks
- Open Water
- Conservation Easements
- City Limits 2010
- Sections
- 2 4 Section Numbers



Map date: December 20, 2010 Data source: City of Grand Rapids, MN; MN DNR; MNGeo; Mn/DOT

Grand Rapids Comprehensive Plan

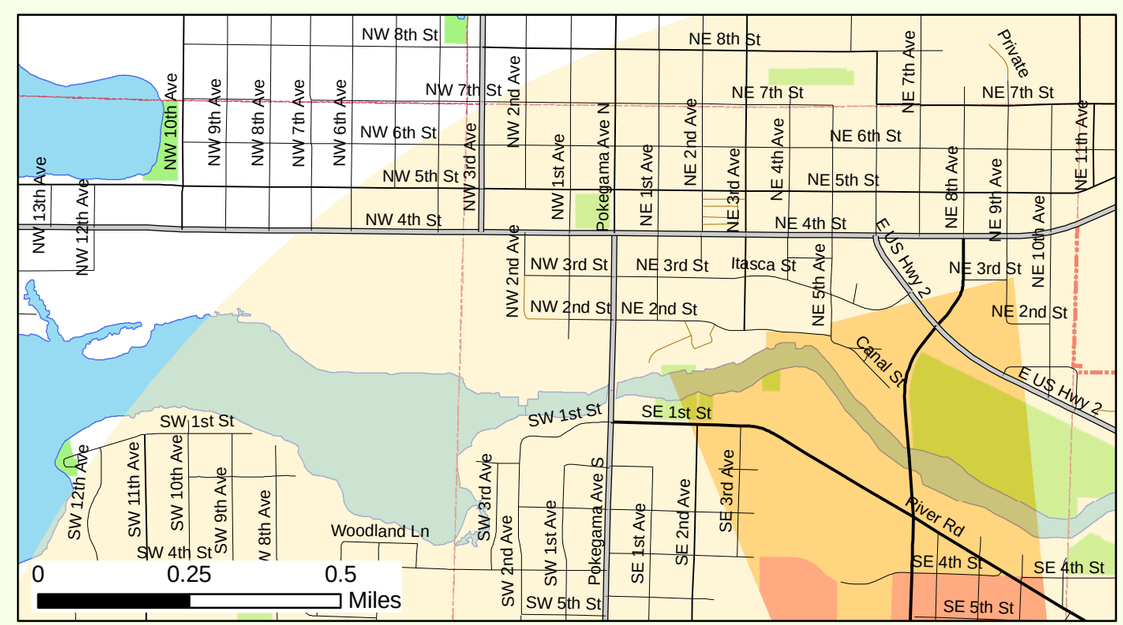
Airport Zones



Legend

Airport Zones
- A
- B
- C

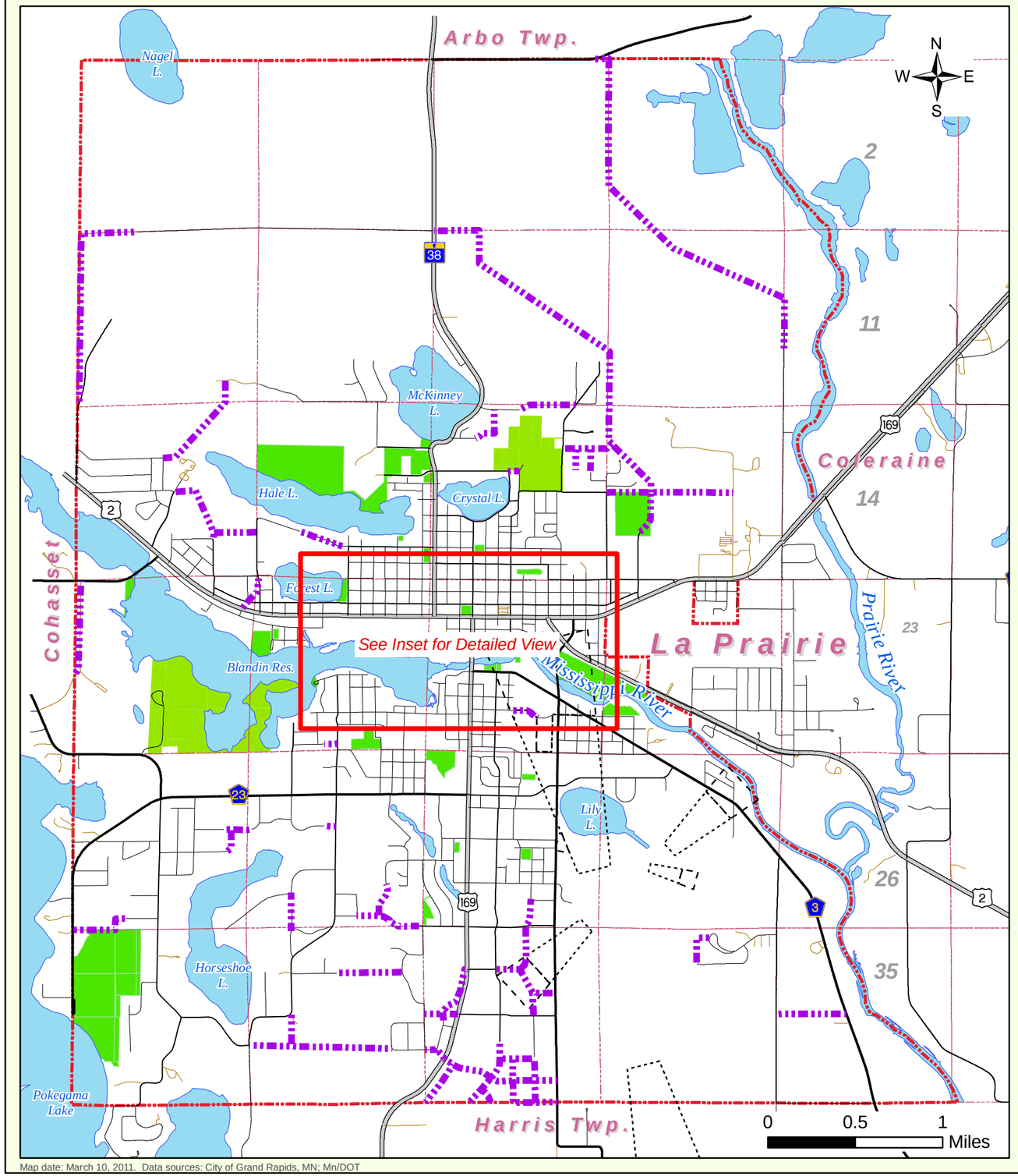
- City Limits 2010
- Open Water
- Public Parks
- Other Parks
- Sections
- 2 4 Section Numbers



Map date: December 20, 2010 Data source: City of Grand Rapids, MN; Itasca County Assessor; Mn/DOT

Grand Rapids Comprehensive Plan

Planned Road Changes and Improvements

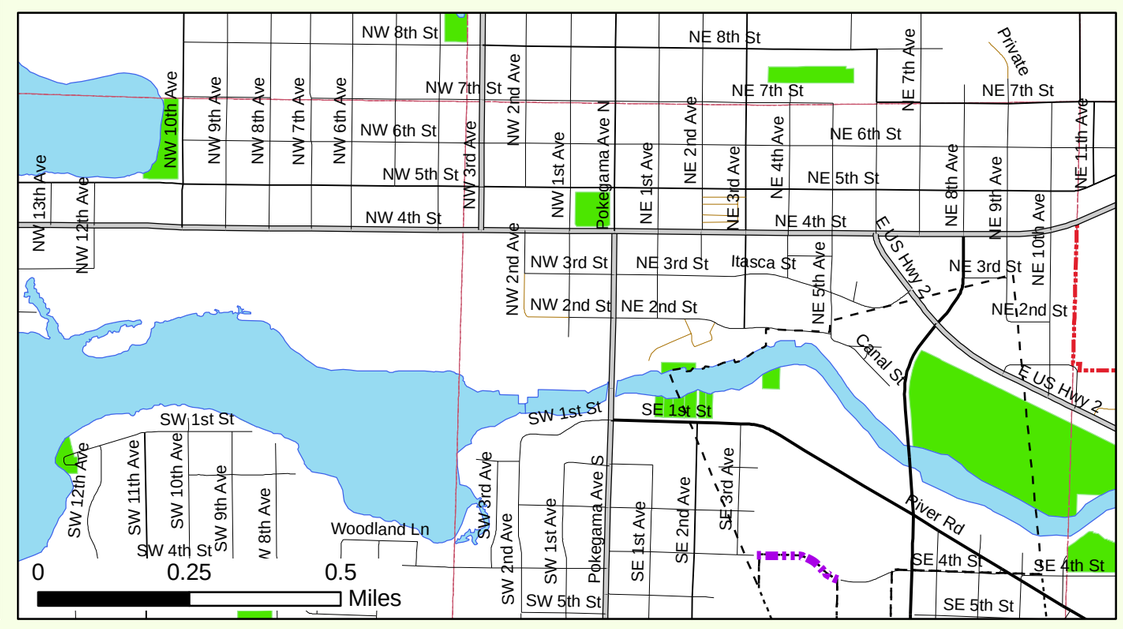


Legend

- Planned Roads and Improvements
- City Limits 2010
- Open Water
- City Parks
- Other Parks
- Sections
- 24 Section Numbers

Airport Zones

- A
- B



Map date: March 10, 2011. Data sources: City of Grand Rapids, MN; Mn/DOT